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FINAL PLANS	SHEET NO.	TOTAL SHEETS
	1	589

INDEX OF SHEETS
SEE SHEET ILI

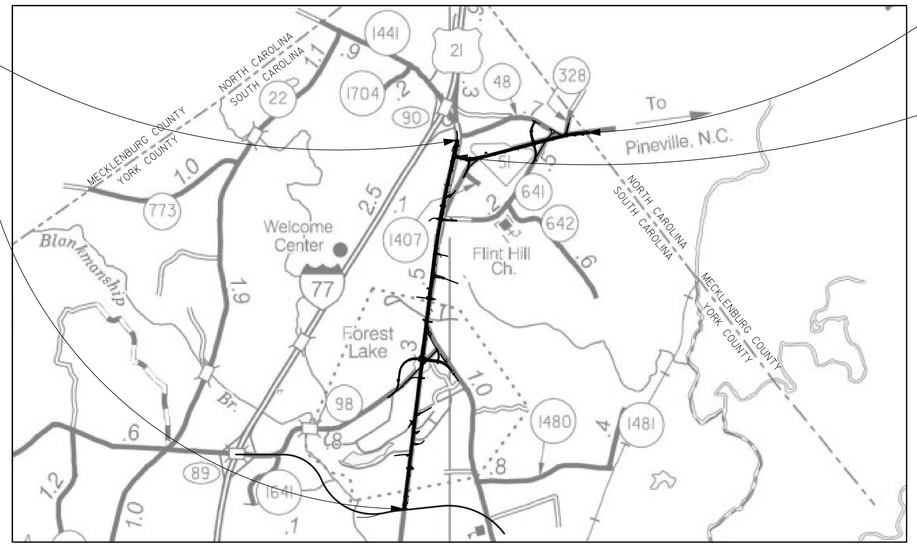
PROPOSED PLANS
FOR
YORK COUNTY, SOUTH CAROLINA
US 21 NORTH PHASE 1 & SC 51
YORK COUNTY PROJECT ID # 11149–004
PROJECT ID # 0042332
US 21 FROM SC 460 (SPRINGFIELD PKWY) TO 700' SOUTH OF S–48 (SPRINGHILL FARM RD) & SC 51 FROM US 21 TO THE NC STATE LINE

SURVEY STA. 134+33.25 END
PROJECT ID 0042332
US 21

SURVEY STA. 14+78.91 BEGIN
PROJECT ID 0042332
US 21

SURVEY STA. 340+10.00 END
PROJECT ID 0042332
SC 51

SURVEY STA. 296+15.72 BEGIN
PROJECT ID 0042332
SC 51



YORK COUNTY MAP

-N-

LAYOUT

SCALE 1INCH = 2,300 FEET

	Mainline US 21	Mainline SC 51	Sideroads	Total	
Net Length of Roadway	2.264	0.832	1.955	5.051	MILES
Net Length of Bridges	0.000	0.000	0.000	0.000	MILES
Net Length of Project	2.264	0.832	1.955	5.051	MILES
Length of Exceptions	0.000	0.000	0.000	0.000	MILES
Gross Length of Project	2.264	0.832	1.955	5.051	MILES

EQUALITIES IN STATIONING
NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:
2001
AASHTO "A Policy on Geometric Design of Highways and Streets"

NPDES PERMIT INFORMATION

Disturbed Area = 52.6 Acre(s)

Project Area = 55.6 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 35° 03' 23" N
Longitude 80° 56' 16" W

End
Latitude 35° 05' 20" N
Longitude 80° 55' 56" W

Hydraulic and NPDES Design provided by:
STV INCORPORATED

Designs may be obtained from the SCDOT Regional Production Group

SCDOT REVIEW	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA.

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	X YES	NO
NEPA DOCUMENT	YES	X NO
401 CERTIFICATION	X YES	NO
OCRM CAP	YES	X NO
NAVIGABLE WATERS	SC USCG USACE	X N/A

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES / (NO)

TRAFFIC DATA

2022 ADT 23,800

2042 ADT 33,900

TRUCKS 8 %

CONSULTING ENGINEERING FIRM

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

ENGINEER OF RECORD

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 22780 — CHRISTOPHER E. FOSTER

10/1/2023

FOR CONSTRUCTION : _____ _____
STV Incorporated DATE

INDEX OF SHEETS
SEE SHEET IL1

York County
south carolina

Pennies for Progress

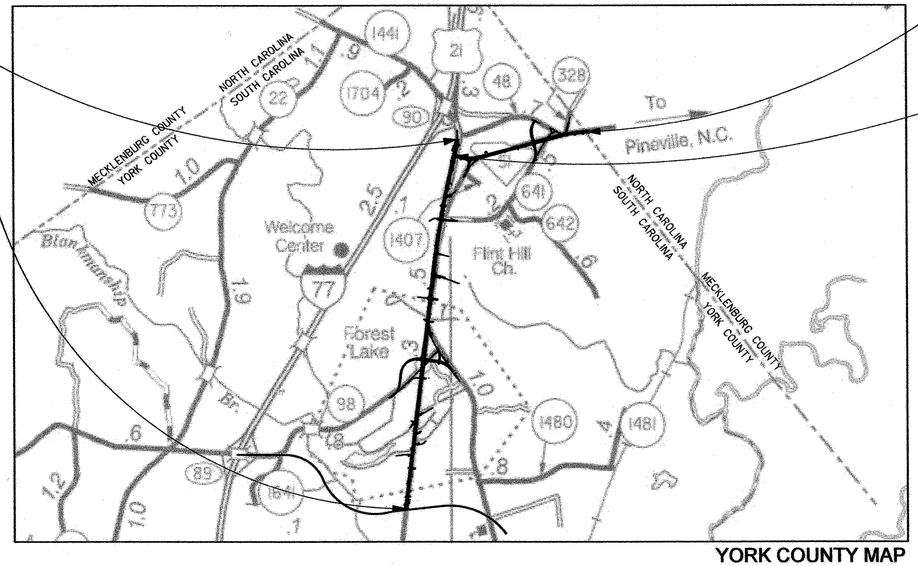
PROPOSED PLANS
FOR
YORK COUNTY, SOUTH CAROLINA
US 21 NORTH PHASE 1 & SC 51
YORK COUNTY PROJECT ID # 11149-004
PROJECT ID # 0042332
US 21 FROM SC 460 (SPRINGFIELD PKWY) TO 700' SOUTH OF S-48 (SPRINGHILL FARM RD) & SC 51 FROM US 21 TO THE NC STATE LINE

SURVEY STA. 134+33.25 END
PROJECT ID 0042332
US 21

SURVEY STA. 14+78.91 BEGIN
PROJECT ID 0042332
US 21

SURVEY STA. 340+10.00 END
PROJECT ID 0042332
SC 51

SURVEY STA. 296+15.72 BEGIN
PROJECT ID 0042332
SC 51



YORK COUNTY MAP

-N-

LAYOUT

SCALE 1 INCH = 2,300 FEET

	Mainline US 21	Mainline SC 51	Sideroads	Total	
Net Length of Roadway	2.264	0.832	2.011	5.107	MILES
Net Length of Bridges	0.000	0.000	0.000	0.000	MILES
Net Length of Project	2.264	0.832	2.011	5.107	MILES
Length of Exceptions	0.000	0.000	0.000	0.000	MILES
Gross Length of Project	2.264	0.832	2.011	5.107	MILES

EQUALITIES IN STATIONING
NONE

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

SUBMITTED
April 5th, 2018

FINAL R/W PLANS FOR REVIEW ONLY	SHEET NO.	TOTAL SHEETS
	1A	474

Hydraulic Design Reference for these plans is the:
2009
Edition of SCDOT's "Requirements for Hydraulic Design Studies"

Design Reference for these plans is the:
2001
AASHTO "A Policy on Geometric Design of Highways and Streets"

NPDES PERMIT INFORMATION

Disturbed Area = 43.4 Acre(s)

Project Area = 46.4 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 35° 03' 23" N
Longitude 80° 56' 16" W

End
Latitude 35° 05' 20" N
Longitude 80° 55' 56" W

Hydraulic and NPDES Design provided by:
STV INCORPORATED

Designs may be obtained from the SCDOT Regional Production Group

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	X YES	NO
NEPA DOCUMENT	YES	X NO
401 CERTIFICATION	X YES	NO
OCRM CAP	YES	X NO
NAVIGABLE WATERS	SC USCG	USACE X N/A

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES / (NO)

TRAFFIC DATA

2020 ADT 23,800

2040 ADT 33,900

TRUCKS 8 %

SCDOT REVIEW	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
PRECONSTRUCTION SUPPORT - ROAD				
PRECONSTRUCTION SUPPORT - STRUCTURES				
RPG - DESIGN MANAGER				
RPG - PROGRAM MANAGER				

THE INITIALS ABOVE DO NOT RELIEVE THE ENGINEER OF RECORD OF THE RESPONSIBILITY TO DESIGN THIS PROJECT IN ACCORDANCE WITH ALL APPLICABLE CRITERIA.

For Right Of Way Acquisition:

Mitchel H Cooper — 4/5/18
Mitchel H Cooper, Consultant Engineer of Record — Date

Thomas P Sinnett — 4/9/18
SCDOT Engineer, Regional Production Engineer — Date

CONSULTING ENGINEERING FIRM

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, STC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

ENGINEER OF RECORD

FOR CONSTRUCTION : _____ _____
STV Incorporated — DATE

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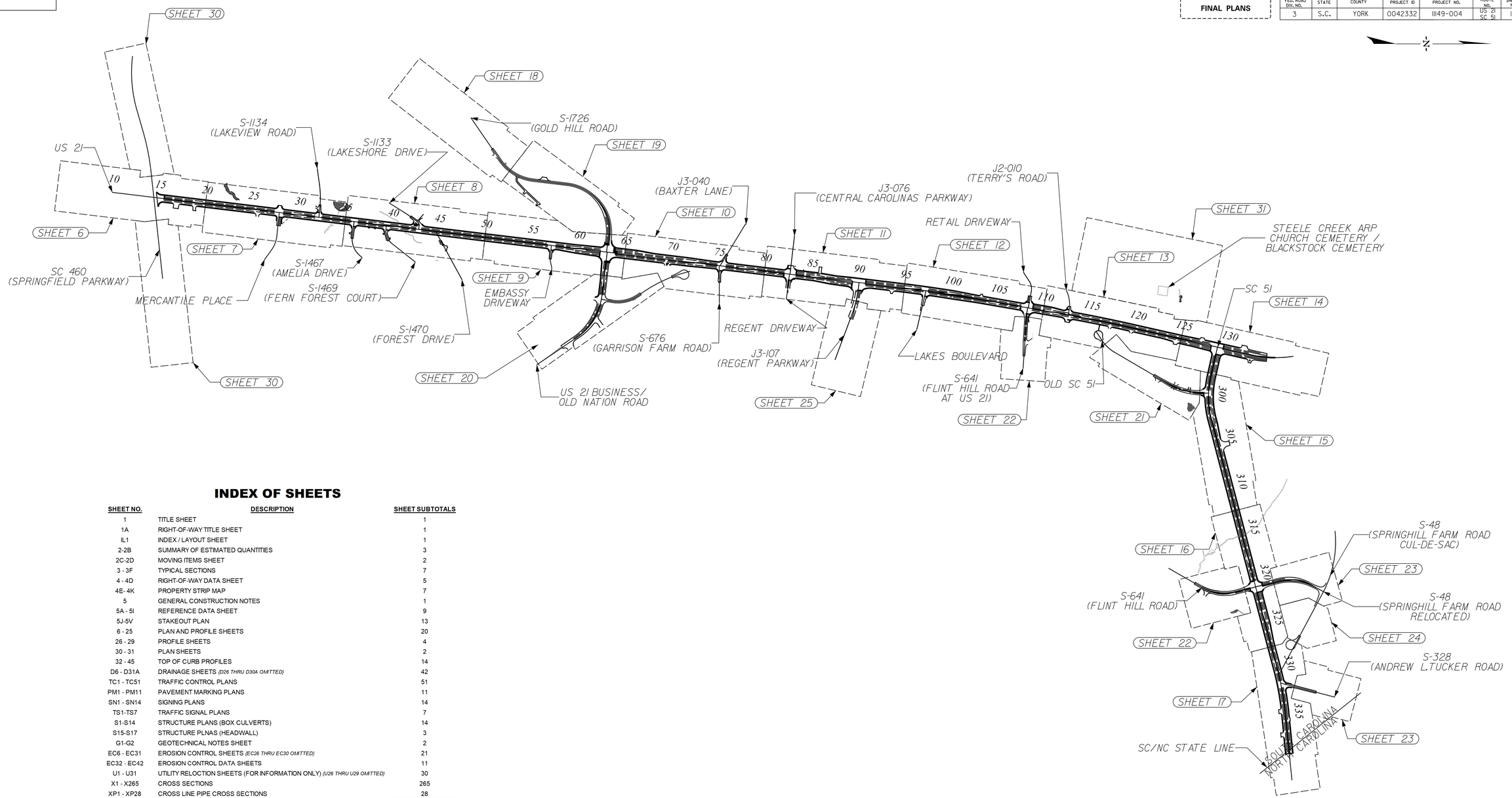
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	IL1

FINAL PLANS



INDEX OF SHEETS

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
1	TITLE SHEET	1
1A	RIGHT-OF-WAY TITLE SHEET	1
IL1	INDEX / LAYOUT SHEET	1
2-2B	SUMMARY OF ESTIMATED QUANTITIES	3
2C-2D	MOVING ITEMS SHEET	2
3 - 3F	TYPICAL SECTIONS	7
4 - 4D	RIGHT-OF-WAY DATA SHEET	5
4E- 4K	PROPERTY STRIP MAP	7
5	GENERAL CONSTRUCTION NOTES	1
5A - 5I	REFERENCE DATA SHEET	9
5J-5V	STAKEOUT PLAN	13
6 - 25	PLAN AND PROFILE SHEETS	20
26 - 29	PROFILE SHEETS	4
30 - 31	PLAN SHEETS	2
32 - 45	TOP OF CURB PROFILES	14
D6 - D31A	DRAINAGE SHEETS *(D26 THRU D30A OMITTED)*	42
TC1 - TC51	TRAFFIC CONTROL PLANS	51
PM1 - PM11	PAVEMENT MARKING PLANS	11
SN1 - SN14	SIGNING PLANS	14
TS1-TS7	TRAFFIC SIGNAL PLANS	7
S1-S14	STRUCTURE PLANS (BOX CULVERTS)	14
S15-S17	STRUCTURE PLNAS (HEADWALL)	3
G1-G2	GEOTECHNICAL NOTES SHEET	2
EC6 - EC31	EROSION CONTROL SHEETS *(EC26 THRU EC30 OMITTED)*	21
EC32 - EC42	EROSION CONTROL DATA SHEETS	11
U1 - U31	UTILITY RELOCTION SHEETS (FOR INFORMATION ONLY) *(U26 THRU U29 OMITTED)*	30
X1 - X265	CROSS SECTIONS	265
XP1 - XP28	CROSS LINE PIPE CROSS SECTIONS	28
		TOTAL 589

UTILITY RELOCATION PLANS BOUND UNDER SEPARATE COVERS
- YORK COUNTY WATER AND SEWER
- FERN FOREST WATER

DocuSigned by: CAROLINE A. CARLTON
302C2E1D064F405...
NOTARY PUBLIC
No. 22780
CAROLINE A. CARLTON
4/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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scale feet

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2	JDS	07/22/2020	ADDED SHEET 30 TO SHOW R/W ON TR.9 ALONG SPRINGFIELD PKWY.
1	JDS	07/16/2020	ADDED SHEETS 31, D31, AND D31A TO SHOW PIPE OUTFALL ON TRACT 104

PREPARED BY MHC CHK'D BY CTC REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
INDEX / LAYOUT SHEET

SCALE 1"=500' RTE. US 21 DWG. NO. IL1

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SUMMARY OF ESTIMATED QUANTITIES

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	2

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
1031000	MOBILIZATION	NEC.	LS
1031100	MOBILIZATION - SUBCONTRACTOR	NEC.	LS
1032010	BONDS AND INSURANCE	NEC.	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1.000	EA
1052001	UTILITY STAKING	NEC.	LS
1052100	SMALL PUBLIC WATER RELOCATION NO. 1	1.000	EA
1052110	LARGE PUBLIC WATER RELOCATION NO. 1	1.000	EA
1052210	LARGE PUBLIC SEWER RELOCATION NO. 1	1.000	EA
1071000	TRAFFIC CONTROL	NEC.	LS
1080300	CPM PROGRESS SCHEDULE	NEC.	LS
2011001	CLEARING & GRUBBING WITHIN RIGHT OF WAY	2.000	ACRE
2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	2,165.000	SY
2025000	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	13,588.000	SY
2027801	REMOVAL OF EXIST. GUARDRAIL	205.000	LF
2028605	CULVERT EXTENSION PREPARATION	6.000	EA
2031000	UNCLASSIFIED EXCAVATION	74,250.000	CY
2033000	BORROW EXCAVATION	137,926.000	CY
2033100	BORROW PIT SET-UP	NEC.	LS
2036020	GEOTEXTILE, SEPARATION	7,000.000	SY
2037000	GEOGRID REINFORCEMENT (UNIAXIAL)	1,280.000	SY
2037030	GEOGRID STABILIZATION	200.000	SY
2041000	STRUCTURE EXCAVATION FOR CULVERTS	1,082.000	CY
2052000	NO. 57 STONE FOR BACKFILL	253.100	TON
2052010	STONE BRIDGE LIFT MATERIAL	6,500.000	TON
2061200	REINFORCED SOIL SLOPE	765.000	SF
2081001	FINE GRADING	84,395.000	SY
2103000	FLOWABLE FILL	3,350.000	CY
3069900	MAINTENANCE STONE	5,545.000	TON
3100310	HOT MIX ASPHALT BASE COURSE - TYPE A	51,722.000	TON
3100320	HOT MIX ASPHALT BASE COURSE - TYPE B	1,620.000	TON
4011004	LIQUID ASPHALT BINDER PG64-22	6,348.000	TON
4012120	FULL DEPTH ASPH. PAV. PATCHING 12"UNIF	4,660.000	SY
4012150	FULL DEPTH ASPH. PAV. PATCHING 15"UNIF	9,490.000	SY
4013150	MILLING EXISTING ASPHALT PAVEMENT 1.5"	5,640.000	SY

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
4013200	MILLING EXISTING ASPHALT PAVEMENT 2.0"	9,320.000	SY
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	7,000.000	SY
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	36,113.000	TON
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	19,875.000	TON
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	12,490.000	TON
4037210	DRIVEWAY PAVING-SURFACE TYPE B	1,200.000	TON
4037220	DRIVEWAY PAVING-SURFACE TYPE C	420.000	TON
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	1,412.000	SF
6021125	PERMANENT CONSTRUCTION SIGNS (BARRICADE MOUNTED)	619.000	SF
6031400	TEMP. SURFACE MOUNT. FLEX. DELINEATOR POST	168.000	EA
6041200	BARRICADE - TYPE 3	534.000	LF
6052121	PORTABLE TERMINAL IMPACT ATTENUATOR-TEST LEVEL 2	4.000	EA
605212A	ANCHOR KIT - PORT. ATTENUATOR(TEST LEVEL 2)	2.000	EA
6053110	TEMPORARY CONCRETE BARRIER	600.000	LF
6062000	CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGN (TRAILER	4.000	EA
608100B	TYPE B - FLASHING LIGHT	32.000	EA
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	1,200.000	EA
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	1,700.000	EA
6250005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	10,335.000	LF
6250010	4" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	152,520.000	LF
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	2,940.000	LF
6250110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	85,440.000	LF
6271005	4" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	14,208.000	LF
6271010	4" WHITE SOLID LINES (PVT. EDGE LINES) THERMO.- 90 MIL.	16,090.000	LF
6271015	8" WHITE SOLID LINES THERMOPLASTIC - 125 MIL.	4,270.000	LF
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	2,025.000	LF
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO.-125 MIL.	105.000	EA
6271035	WHITE WORD MESSAGE "ONLY" -THERMOPLASTIC - 125 MIL.	75.000	EA
6271040	WHITE COMBINATION ARROWS(STR&RT.OR STR&LT)THERMO-125MIL	2.000	EA
6271064	4" YELLOW BROKEN LINES(GAPS EXC)THERMOPLASTIC - 90 MIL.	3,209.000	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	53,940.000	LF
6271076	6" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	17,855.000	LF
6271078	8" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	134.000	LF
6271080	24" YELLOW SOLID LINES - THERMOPLASTIC - 125 MIL.	660.000	LF

SOUTH CAROLINA — STV INCORPORATED NO. C0338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 32542 — 5/27/2025

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SUMMARY OF ESTIMATED QUANTITIES

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	2A

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO-DIR.- 4"X4"	600.000	EA
6301005	PERMANENT YELLOW PAVEMENT MARKERS MONO-DIR.- 4"X 4" PERM. YEL.	270.000	EA
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	850.000	EA
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	983.480	SF
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	195.500	SF
6513015	MOUNTING ASSEMBLY FOR F.S. SIGN ERCTD ON SPAN WIRE	20.000	EA
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	2,001.000	LF
6531215	U-SECTION POST FOR SIGN BRACING - 2P	43.330	LF
6750275	FURNISH & INSTALL 1.0" SCHEDULE 80 PVC CONDUIT	500.000	LF
6750278	FURNISH & INSTALL 2.0" SCHEDULE 80 PVC CONDUIT	6,300.000	LF
675027C	FURNISH & INSTALL 3.0" SCHEDULE 80 PVC CONDUIT	180.000	LF
6760060	FURNISH & INSTALL 2" SCHEDULE 80 HDPE CONDUIT (TRENCHLESS)	1,000.000	LF
6770388	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - BLACK	12,500.000	LF
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	12,800.000	LF
6770393	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (BLACK)	8,100.000	LF
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	2,900.000	LF
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1-CONDUCTOR FOR LOOP WIRE	1,300.000	LF
6770470	FURNISH & INSTALL FIBER OPTIC CABLE-SINGLE MODE	6,500.000	LF
6770476	FURNISH & INSTALL FIBER OPTIC INTERCONNECT CENTER	5.000	EA
6780495	SAWCUT FOR LOOP DETECTOR	530.000	LF
6800499	FURNISH & INSTALL ELECTRICAL SERVICE FOR TRAFFIC SIGNAL	6.000	EA
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	21.000	EA
680052C	F&I-17"X30"X24"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	16.000	EA
6825020	FURNISH & INSTALL - 35' WOOD POLE-CLASS II-CCA TR(0.60)	12.000	EA
682505C	FURNISH AND INSTALL 13" X 30' STEEL STRAIN POLE AND FOUNDATION	24.000	EA
6825090	FURNISH & INSTALL 1/4" GALVANIZED STEEL CABLE	600.000	LF
6825092	FURNISH & INSTALL 3/8" GALVANIZED STEEL CABLE	4,500.000	LF
6825480	FURNISH & INSTALL 4' BREAK-AWAY ALUMINUM PEDESTAL POLE	5.000	EA
6825484	FURNISH & INSTALL 10' BREAK-AWAY ALUM PEDESTAL POLE AND BASE	18.000	EA
6825486	FURNISH & INSTALL ALUMINUM PEDESTAL POLE CONCRETE FOUNDATION	33.000	EA
6845511	F&I - CONTR 332/336 CABINET ASSEMBLY - BASE MOUNTED	6.000	EA
6845518	FURNISH AND INSTALL BATTERY BACK-UP INCLUDING FOUNDATION	6.000	EA
6865710	FURNISH & INSTALL - 12" 5 SECTION SIGNAL HEAD	5.000	EA
6865720	FURNISH & INSTALL -12" 4 SECTION SIGNAL HEAD	4.000	EA

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
6865723	FURNISH & INSTALL - 12" 3 SECTION SIGNAL HEAD	57.000	EA
6865783	F&I - 1-WAY-1SECT.(COUNTDOWN HAND/MAN EMBLEM)PED.SIG.HEAD	42.000	EA
6865794	F&I-PED PUSH BUTTON MICRO ASSEMBLY(9"X15")AND SIGN(R-10-3E or R10-4a)	42.000	EA
6865834	BACKPLATE W/ RETROREFL.BORDERS FOR TRAFF. SIG.	66.000	EA
6885990	REMOVAL,SALVAGE,&DISP.OF EXISTING TRAF. SIGNAL EQUIPMENT	NEC.	LS
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	NEC.	LS
6885996	TEMPORARY TIMING ADJUSTMENTS PER SITE VISIT	4.000	EA
6887951	FURNISH & INSTALL CONCRETE CABINET FOUNDATION	6.000	EA
6887971	F&I RADAR FOR STOP BAR DETECTION, INC 150' CABLE & MTG. HW.	22.000	EA
6887972	F&I CABINET INTERFACE COMPONENTS FOR STOP BAR DETECTION	22.000	EA
6887973	F&I RADAR FOR SETBACK DETECTION, INC 150' CABLE & MTG. HW.	12.000	EA
6887974	F&I CABINET INTERFACE COMPONENTS FOR SETBACK DETECTION	12.000	EA
7011402	CONC. FOR STRUCTURES - CLASS 4000(CULVERT)	340.900	CY
7011403	CONC. FOR STRUCTURES - CLASS 4000(ROADWAY)	13.700	CY
7013550	CLEAN OUT EXISTING BOX CULVERT	326.000	CY
7016145	STRAIGHT HEADWALL FOR 30" CIRCULAR PIPE-1 LINE	5.000	EA
7016155	STRAIGHT HEADWALL FOR 36" CIRCULAR PIPE-1 LINE	5.000	EA
7016165	STRAIGHT HEADWALL FOR 42" CIRCULAR PIPE-1 LINE	2.000	EA
7027010	DESIGN,DETAIL AND CONSTRUCT RETAINING WALL	400.000	SF
7031100	REINF. STEEL FOR STRUCTURES (ROADWAY)	57,107.000	LB
7141123	18" RC PIPE CUL.-CLASS IV	376.000	LF
7141133	18" RC PIPE CUL.-CLASS V	880.000	LF
7141124	24" RC PIPE CUL.-CLASS IV	216.000	LF
7141125	30" RC PIPE CUL.-CLASS IV	160.000	LF
7141126	36" RC PIPE CUL.-CLASS IV	320.000	LF
7141887	24" REINFORCED CONCRETE PIPE (CLASS V SPECIAL)TRENCHLESS	72.000	LF
7141889	36" REINFORCED CONCRETE PIPE (CLASS V SPECIAL)TRENCHLESS	184.000	LF
7143618	18" SMOOTH WALL PIPE	19,840.000	LF
7143624	24" SMOOTH WALL PIPE	10,576.000	LF
7143630	30" SMOOTH WALL PIPE	2,120.000	LF
7143636	36" SMOOTH WALL PIPE	1,008.000	LF
7143642	42" SMOOTH WALL PIPE	1,104.000	LF
7149999	CLEANING EXISTING PIPE	4,000.000	LF
7191050	CATCH BASIN - TYPE 1 SPECIAL	25.000	EA

SOUTH CAROLINA — STV INCORPORATED NO. C0338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 32542 — 5/27/2025 — G. MICHAEL STONE

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SUMMARY OF ESTIMATED QUANTITIES

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	2B

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
7191625	CATCH BASIN -TYPE 17	224.000	EA
7191650	CATCH BASIN -TYPE 18	11.000	EA
7192010	DROP INLET (24" X 24")	16.000	EA
7192020	DROP INLET (24" X 36")	27.000	EA
7192107	MANHOLE WITH STANDARD 4' X 4' BOX	23.000	EA
7196000	EXTRA DEPTH OF BOX	579.000	LF
7199100	BEVELING OF PIPE END	53.000	EA
7203210	CONCRETE CURB AND GUTTER(2'-0") VERTICAL FACE	36,920.000	LF
7204100	CONCRETE SIDEWALK(4" UNIFORM)	15,450.000	SY
7204900	DETECTABLE WARNING MATERIAL	1,050.000	SF
7205000	CONCRETE DRIVEWAY(6" UNIFORM)	5,039.000	SY
7206000	CONCRETE MEDIAN	4,043.000	SY
7209000	PEDESTRIAN RAMP CONSTRUCTION	2,100.000	SY
8041010	RIP-RAP (CLASS A)	1,115.000	TON
8041020	RIP-RAP (CLASS B)	2,197.000	TON
8041030	RIP-RAP (CLASS C)	368.000	TON
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	4,058.000	SY
8051050	PREMASH W-BEAM STRONG POST SYSTEM WSP3	2,625.000	LF
8051151	MT3 LEADING END TREATMENT TL3	9.000	EA
8051710	MB TRAILING END TREATMENT	5.000	EA
8052100	MGS3 GR STANDARD SHOULDER	400.000	LF
8052200	MGS2C GR BEHIND CURB	1,362.500	LF
8052210	PREMASH TRAILING W-BEAM TYPE B 12.5'	7.000	EA
8055800	PREMASH W-BEAM TIGHT CURVED SYSTEM	162.500	LF
8055801	PREMASH W-BEAM MEDIUM CURVED SYSTEM	200.000	LF
8057100	PREMASH TYPE T TL3 LEADING 50'	2.000	EA
8068301	TEMPORARY BARRIER FENCE	1,935.000	LF
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	310.000	EA
8091050	RIGHT OF WAY PLAT	NEC.	LS
8100100	PERMANENT COVER	36.409	ACRE
8100200	TEMPORARY COVER	18.205	ACRE
8104005	FERTILIZER (NITROGEN)	3,641.000	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	3,641.000	LB
8104015	FERTILIZER (POTASH)	3,641.000	LB

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
8105005	AGRICULTURAL GRANULAR LIME	72,818.000	LB
8109050	SELECTIVE WATERING	271,500.000	GAL
8109901	MOWING	109.227	ACRE
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	0.984	MSY
8151102	TURF REINFORCEMENT MATTING (TRM) TYPE 2	0.025	MSY
8151111	TEMPORARY EROSION CONTROL BLANKET (CLASS A)	69.558	MSY
8151201	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 1	49.000	ACRE
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	42.023	ACRE
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	7,672.000	LF
8152006	INLET STRUCTURE FILTER- TYPE F (NON-WEIGHTED)	7,672.000	LF
8152007	SEDIMENT TUBES FOR DITCH CHECKS	8,880.000	LF
8153000	SILT FENCE	34,734.000	LF
8153090	REPLACE/REPAIR SILT FENCE	3,474.000	LF
8154010	CLEANING SILT BASINS	4,556.000	CY
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	8,684.000	LF
8156205	INLET STRUCTURE FILTER - TYPE D1	22.000	EA
8156215	INLET STRUCTURE FILTER - TYPE D2	43.000	EA
8156219	INLET STRUCTURE FILTER - TYPE A	504.000	LF
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	324.000	TON
8156490	STABILIZED CONSTRUCTION ENTRANCE	1,650.000	SY

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 32542 — G. MICHAEL LOWE — 5/27/2025

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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York County south carolina

MOVING AND REMOVAL & DISPOSAL ITEMS SHEET

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	2C

MOVING ITEMS

ITEM NO.	LOCATION ROUTE	OFFSET	LT / RT	STATION	DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
1	US 21/SC 51		Lt	10+54 to 10+94	Retaining wall	County contractor to rebuild behind right of way line		Springfield Town Center	20			
2	US 21/SC 51	70 Ft	Rt	40+60	Brown storage building	Moving Item		Roger Dennis McNutt	41			
3	US 21/SC 51	56 Ft	Rt	40+80	White storage building	Moving Item		Roger Dennis McNutt	41			
4	US 21/SC 51		Rt	19+40	Sign	Owner retaining and moving		IVAC of the Carolinas Real Estate Holding Company, LLC	63/64			
5	US 21/SC 51		Rt	18+20	Sign	Owner retaining and moving		IVAC of the Carolinas Real Estate Holding Company, LLC	63/64			
6	US 21/SC 51		Rt	19+20	Gate with power and controls	Owner retaining and moving		IVAC of the Carolinas Real Estate Holding Company, LLC	63/64			
7	US 21/SC 51		Rt		Lighting	Owner retaining and moving		IVAC of the Carolinas Real Estate Holding Company, LLC	63/64			
8	US 21/SC 51		LT	79+50	Business sign	Moving Item		H&A Associates, LLC	81			
9	US 21/SC 51	45.5 Ft	Rt	309+10	Monument sign	To be relocated by owner prior to construction		George Crump	122			
10	US 21/SC 51		Lt	324+80	Billboard	To be relocated by sign company		Carl I. Latham, III, John O'Neal Latham, Thomas A. Latham, & Mary Helen Latham	128			
11	US 21/SC 51		Rt	316+69	Sign	Owner moving		Quality Pools Group, Inc.	133			
12	US 21/SC 51	44 Ft	Rt		Bollards used for fencing	Moving item		Omanra International, Inc.	142/143			
13	US 21/SC 51		Lt	2+94 to 3+03	Sprinkler System	Move/re-cap as necessary		Warehouse One, LLC and FMK Management, LLC	148			
14	US 21/SC 51		Rt	303+29	AMP Utilities sign	Owner retaining and moving		CMJ Fairfield Road, LLC	159			
15	US 21/SC 51		RT	112+20	Existing "No Trucks Sign"	Moving Item		Ross Dress for Less, Inc.	185			

REMOVAL & DISPOSAL ITEMS

ITEM NO.	LOCATION ROUTE	OFFSET	LT / RT	STATION	DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
1	US 21/SC 51		Rt	38+10	2 satellite dishes	Demo		Freedom Ministry and Chaplaincy F/K/A Coalition of Prison Evangelists	34			
2	US 21/SC 52		Rt	38+20 & 38+36	Pine Trees	Demo/Remove		Freedom Ministry and Chaplaincy F/K/A Coalition of Prison Evangelists	34			Demo/Remove pine trees & remove all materials & debris, during this construction
3	US 21/SC 51	85 Ft	Rt	44+00	Wood shed	Demo		Michael D. Newman	45			
4	US 21/SC 51	50 Ft	Lt	87+00	Pink building	Demo		Grady E. McMehan, Tony R. McMehan, Ronnie M. Griffin	87			

SOUTH CAROLINA — STV INCORPORATED NO. C0338 — CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA — REGISTERED — 95CC8E2C964F405... — No. 22780 — PROFESSIONAL ENGINEER — CHRISTOPHER E. CARSTEN

1/11/2023

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	2D

MOVING, REMOVAL & DISPOSAL, AND NEW FENCE ITEMS SHEET

MOVING ITEMS

ITEM NO.	LOCATION				DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
	ROUTE	OFFSET	LT / RT	STATION								
1	US 21/SC 51	28 Ft	Rt	11+00 to 11+65	Chain link fence	Moving item		Erma Jane Keenan and Betty Jane Keenan	23			
2	US 21/SC 51	32 Ft	Rt	17+15 to 20+21	Fence	Owner retaining and moving		IVAC of the Carolinas Real Estate Holding Company, LLC	63/64			
3	SC 51	60 FT	Lt	297+80 to 298+40	Fence	Owner retaining and moving		HOF, LLC	162			
4	SC 51	42 FT	RT	333+00 to 340+00	Fence	Moving item		Charles Steven Miller	145			

REMOVAL & DISPOSAL ITEMS

ITEM NO.	LOCATION				DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
	ROUTE	OFFSET	LT / RT	STATION								
1	US 21	85 Ft	Rt	44+00	Chain link fence	Demo		Michael D. Newman	45			

NEW FENCE ITEMS

ITEM NO.	LOCATION				DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
	ROUTE	OFFSET	LT / RT	STATION								

SOUTH CAROLINA
STV INCORPORATED NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN

1/11/2023

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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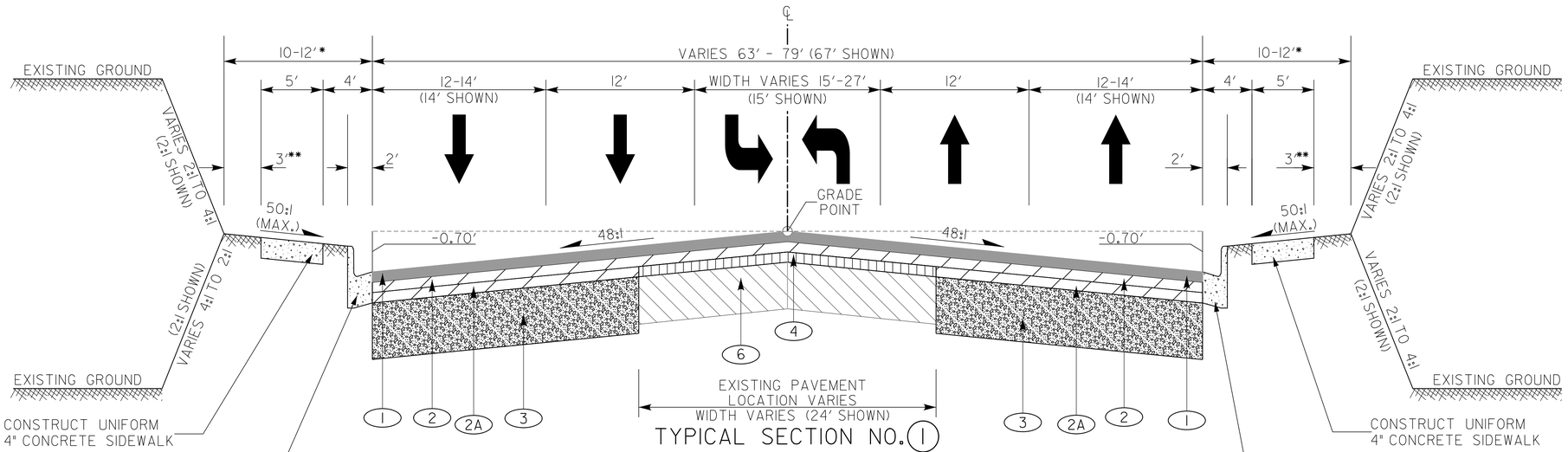
TYPICAL SECTION OF IMPROVEMENT
YORK COUNTY, SOUTH CAROLINA

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	3



TYPICAL SECTION NO. 1

USE THIS SECTION ON

US 21 (N HWY 21 BYPASS)
STA. 14+78.91 TO STA. 134+33.25

SC 51
STA. 296+15.72 TO STA. 340+10.00

⊗ US 21 (N HWY 21 BYPASS)
CONTRACTOR SHALL REMOVE THE EXISTING PAVED SHOULDER AND REPLACE WITH NEW FULL DEPTH PAVEMENT PROIR TO PAVEMENT WIDENING.

NC 51 (ROCK HILL PINEVILLE RD)
CONTRACTOR SHALL MILL 1.5" OF EXISTING PAVEMENT AND REPLACE WITH S9.5C (168 PSY) IN ACCORDANCE WITH NCDOT SPEC 610 AND 620 FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT PRIOR TO APPLYING FINAL PAVEMENT MARKINGS FROM SC/NC STATE LINE TO NC MILLER ROAD WHERE EXISTING LANE MARKING ARE REMOVED. S9.5C SHALL BE PAID FOR AS 4030320 HMA SURFACE TYPE B.

⊗ WHERE DIRECTED AND APPROVED BY THE R.C.E THE CONTRACTOR SHALL REPAIR/REPLACE EXISTING PAVEMENT SHOWN IN THE PLANS. ALL OR PART OF THE EXISTING PAVEMENT SHOWN IN THE PLANS WAS COMPLETED UNDER SEPERATE CONTRACT. CONTRACTOR SHALL USE FULL DEPTH ASPHALT PAVEMENT PATCHING 15" UNIFORM. QUANITIES SHOWN AND NOTED ON THE GCN SHEET. ONLY PAYMENT FOR APPROVED AND COMPLETED WORK SHALL BE MADE.

PAVEMENT WIDENING DETAIL FOR CURB AND GUTTER SECTIONS

NOTE:
- CONTRACTOR SHALL SAWCUT EXIST. PVM'T AND REPLACE WITH FULL DEPTH PVM'T WHERE COMPACTION CAN'T BE MET, OR WHERE DIRECTED BY THE RCE.
- CONTRACTOR SHALL DETERMINE THE LOCATION FROM GUTTER NEEDED TO MET SCDOT COMPACTION STD.

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2')

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5' WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75' TO 6.25' WHERE MASH COMPONENTS ARE USED.

** IN AREAS OF WETLAND REDUCE FACE OF GUARDRAIL OFFSET TO 1' BEHIND SIDEWALK. SEE PLANS AND CROSS SECTIONS FOR LOCATIONS.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS

PAVEMENT LEGEND

1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
2A	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3	HOT MIX ASPHALT BASE COURSE, TYPE A (1,150 LBS./S.Y.)
4	VARIABLE DEPTH ASPHALT FOR BUILD UP
6	RETAIN EXISTING ASPHALT PAVEMENT ⊗

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

US 21 FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL

SC 51 FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL

MAINLINE DESIGN SPEED		
MPH	FROM STA.	TO STA.
45 (US 21)	14+78.91	134+33.25
45 (SC 51)	296+15.72	340+10.00

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — PROFESSIONAL ENGINEER — SEAL 32542 — CHARLES G. MASTLOW — Docusigned by: C85A1E8EAE4DE... — 8/16/2025

STV 100 Years — STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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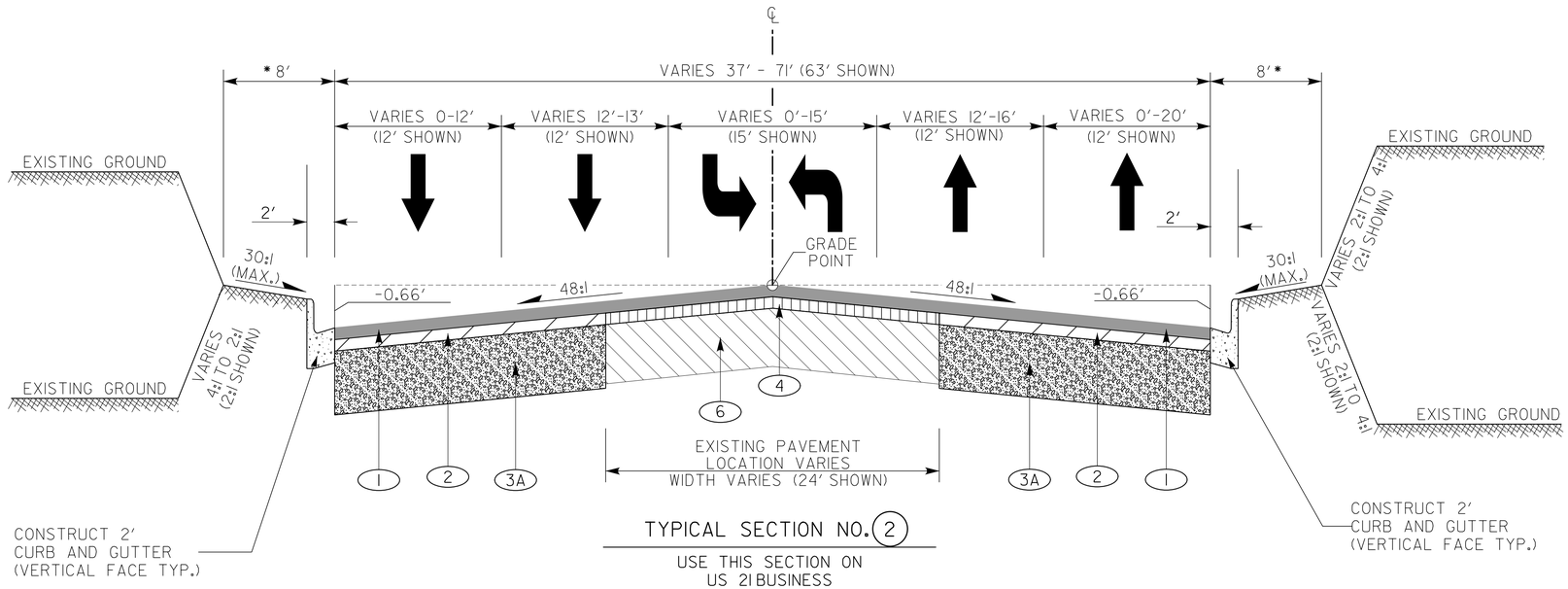
TYPICAL SECTION OF IMPROVEMENT
YORK COUNTY, SOUTH CAROLINA

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	3A



TYPICAL SECTION NO. (2)

USE THIS SECTION ON
US 21 BUSINESS
STA. 10+53.05 TO STA. 21+90.00

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2′)

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

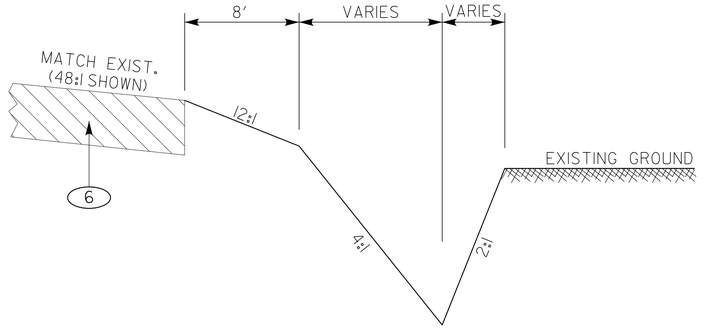
SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5′ WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75′ TO 6.25′ WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS



TYPICAL SECTION NO. (2A)

USE THIS SECTION ON
US 21 BUSINESS
STA. 21+90.00 TO STA. 24+80.00

PAVEMENT LEGEND	
(1)	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
(2)	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
(3A)	HOT MIX ASPHALT BASE COURSE, TYPE A (1,100 LBS./S.Y.)
(4)	VARIABLE DEPTH ASPHALT FOR BUILD UP
(6)	RETAIN EXISTING ASPHALT PAVEMENT

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

US 21 BUSINESS FUNCTIONAL CLASSIFICATION MINOR ARTERIAL

DESIGN SPEED		
MPH (ROAD)	FROM STA.	TO STA.
35 (US 21 BUS.)	10+53.05	24+80.00

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5′ HORZ. 1"= 1′ VERT.

STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER WALSH 1/11/2023

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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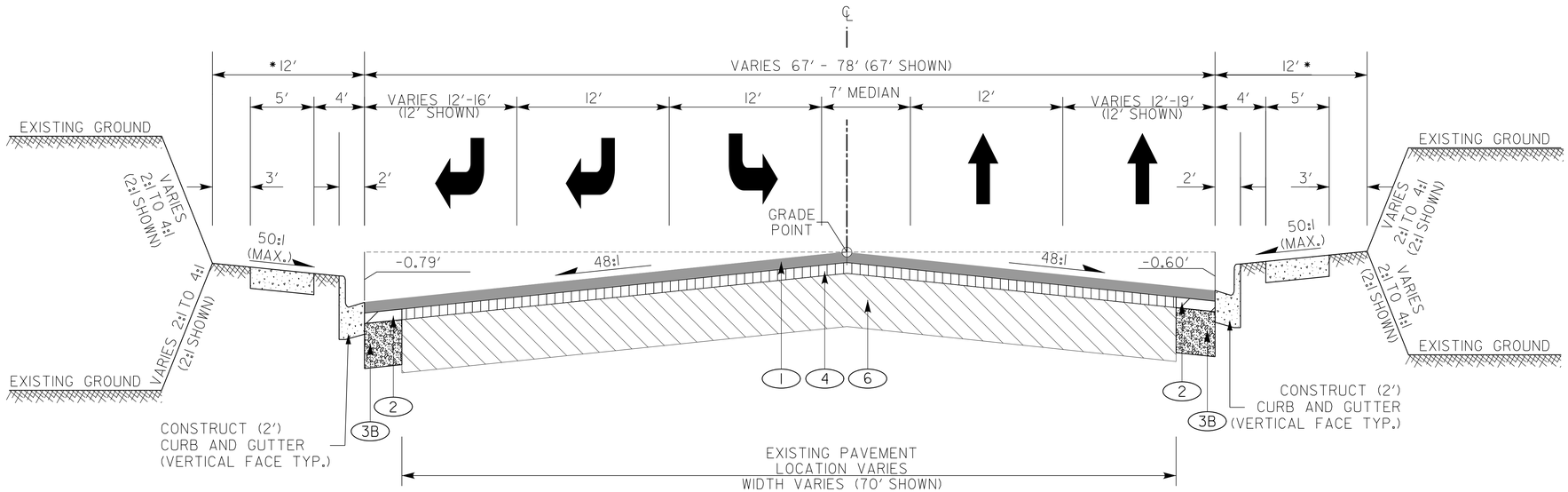
TYPICAL SECTION OF IMPROVEMENT

YORK COUNTY, SOUTH CAROLINA

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	3B



TYPICAL SECTION NO. 3

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
J3-107 (REGENT PARKWAY)
STA. 10+53.64 TO STA. 10+90.00

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2')

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5' WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75' TO 6.25' WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS

SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER J. HOLSTEN 1/11/2023

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

PAVEMENT LEGEND	
1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3B	HOT MIX ASPHALT BASE COURSE, TYPE A (850 LBS./S.Y.)
4	VARIABLE DEPTH ASPHALT FOR BUILD UP
6	RETAIN EXISTING ASPHALT PAVEMENT

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

DESIGN SPEED		
MPH (ROAD)	FROM STA.	TO STA.
40 (REGENT PARKWAY)	10+53.64	15+25.00

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

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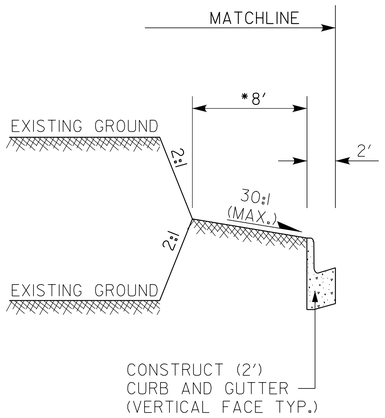
TYPICAL SECTION OF IMPROVEMENT

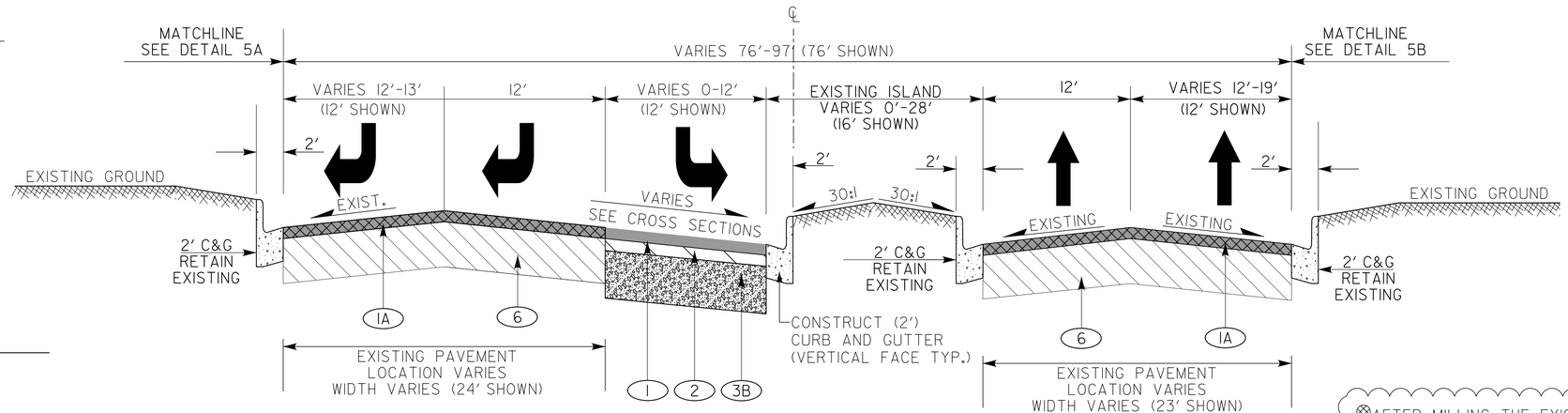
YORK COUNTY, SOUTH CAROLINA

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	3C



DETAIL 4A

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
J3-107 (REGENT PKWY.)
STA. 10+90.00 TO STA. 11+15.83



TYPICAL SECTION NO. 4

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
J3-107 (REGENT PKWY.)
STA. 10+90.00 TO STA. 15+25.00

⊗AFTER MILLING THE EXISTING PAVEMENT THE RCE MAY REQUIRE THAT PORTIONS OF THE EXISTING PAVEMENT BE FULL DEPTH ASPHALT PAVEMENT PATCH (12" UNIFORM) BEFORE RESURFACING.

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2')

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

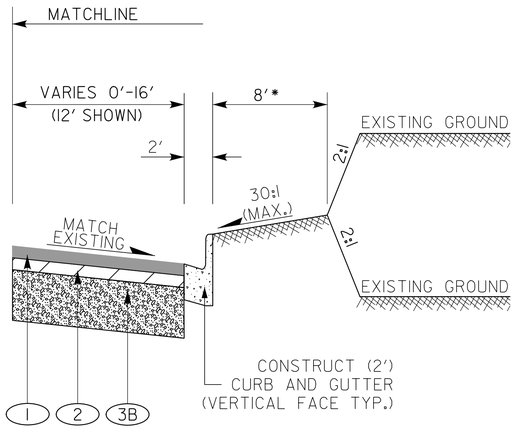
SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5' WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75' TO 6.25' WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS



DETAIL 4B

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
J3-107 (REGENT PKWY.)
STA. 10+90.00 TO STA. 12+35.94

PAVEMENT LEGEND		
1		HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
1A		2" MILLING AND RESURFACING HMA SURFACE TYPE B (210 LBS./S.Y.)⊗
2		HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3B		HOT MIX ASPHALT BASE COURSE, TYPE A (850 LBS./S.Y.)
6		RETAIN EXISTING ASPHALT PAVEMENT

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

DESIGN SPEED		
MPH (ROAD)	FROM STA.	TO STA.
40 (REGENT PARKWAY)	10+53.64	15+25.00
PREPARED BY MHC	CHK'D BY RRS	REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 22780 CHRISTOPHER S. WILSON 1/11/2023

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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1/10/2023

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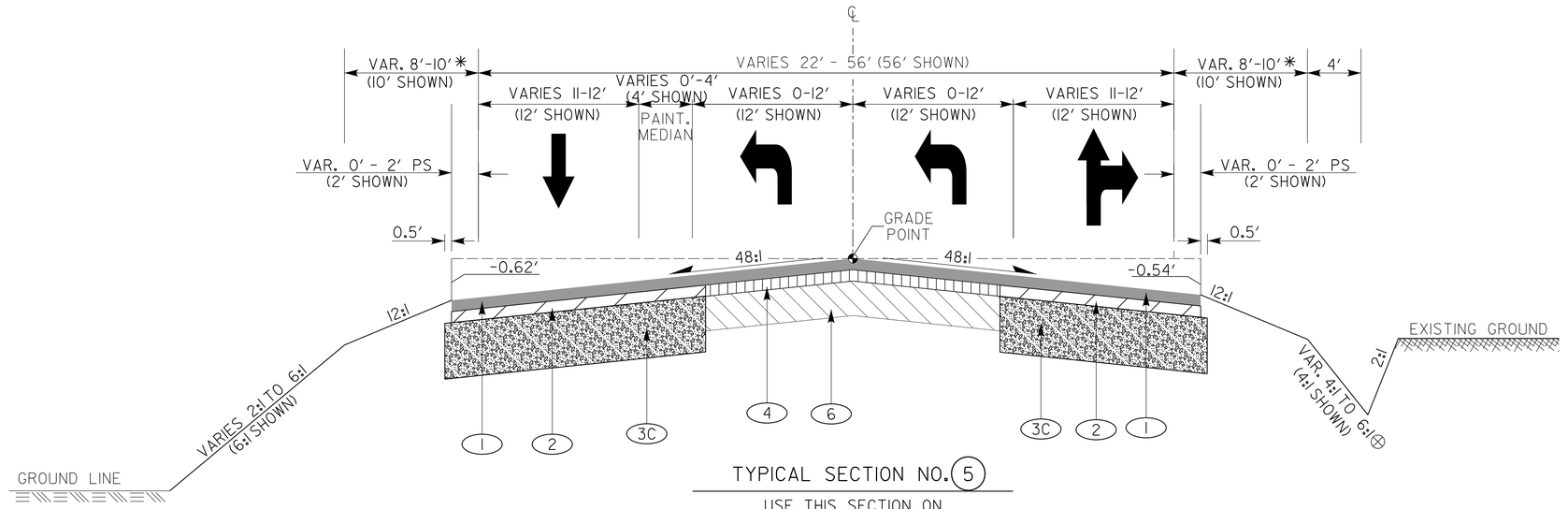
TYPICAL SECTION OF IMPROVEMENT
YORK COUNTY, SOUTH CAROLINA

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	3D



TYPICAL SECTION NO. 5

USE THIS SECTION ON

MINOR ARTERIAL:
S-1726 (GOLD HILL RD.) STA. 14+00.00 TO STA. 32+39.84

URBAN COLLECTOR:
S-48 (SPRINGHILL FARM RD.) STA. 23+50.63 TO STA. 30+50.99

S-48: USE 8′ TOTAL SHOULDER
S-1726: USE 10′ TOTAL SHOULDER

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

✳ SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5′ WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75′ TO 6.25′ WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS

⊗ NOTE:
THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12:1 AND A MAXIMUM SLOPE OF 2:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 2:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 2:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH. SEE PROFILE FOR THE SPECIAL DITCH GRADES.

PAVEMENT LEGEND	
1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3C	HOT MIX ASPHALT BASE COURSE, TYPE A (1,000 LBS./S.Y.)
4	VARIABLE DEPTH ASPHALT FOR BUILD UP
6	RETAIN EXISTING ASPHALT PAVEMENT

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

DESIGN SPEED MPH (ROAD)	FROM STA.	TO STA.
35 (GOLD HILL)	14+00.00	32+39.84
35 (SPRINGHILL FARM)	23+50.63	30+50.99

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA
Document is not considered fully authenticated without the signature and seal of the certifying engineer. PROFESSIONAL ENGINEER No. 22780 REGISTERED SOUTH CAROLINA
1/10/2023

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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TYPICAL SECTION OF IMPROVEMENT

YORK COUNTY, SOUTH CAROLINA

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	3E

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2')

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

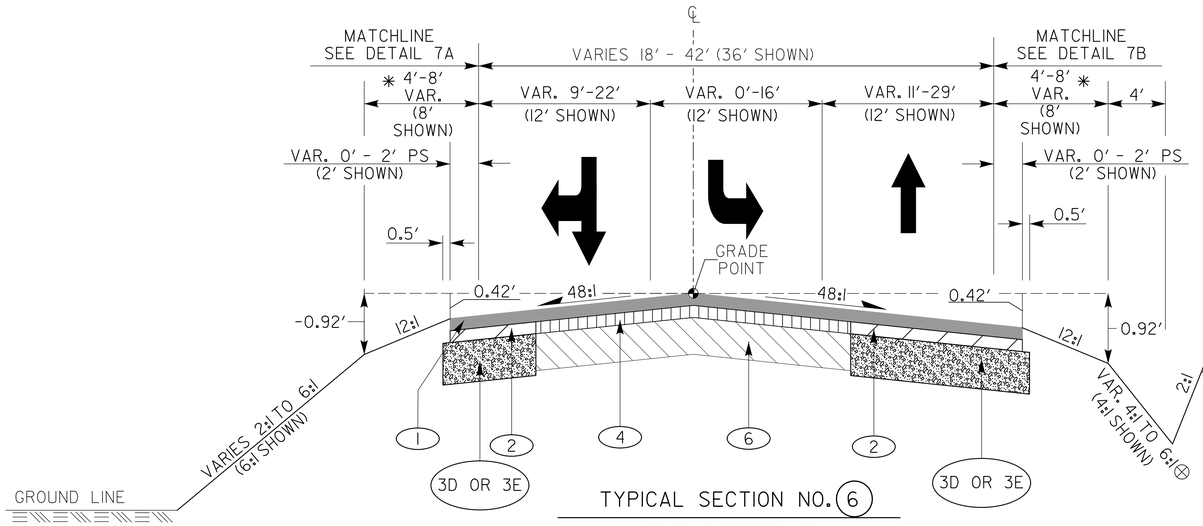
SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5' WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75' TO 6.25' WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS



TYPICAL SECTION NO. 6

USE THIS SECTION ON

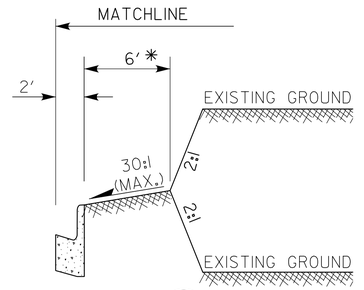
URBAN COLLECTOR:
S-641 (FLINT HILL RD. @ US 21) STA. 10+33.55 TO STA. 15+14.19
S-641 (FLINT HILL RD. @ SC 51) STA. 16+12.89 TO STA. 22+60.00
LOCAL ROAD GROUP 1:
S-1133 (LAKE SHORE DR.) STA. 12+70.00 TO STA. 14+13.11
LOCAL GROUP 4:
OLD SC 51 STA. 302+38.51 TO STA. 308+30.00 AND
STA. 315+05.00 TO STA. 316+16.73
MERCANTILE PLACE STA. 10+33.50 TO STA. 11+40.00
DRIVEWAYS:
REGENT DRIVEWAY STA. 10+33.50 TO 11+50.00
RETAIL DRIVE 12+75.00 TO 13+69.22

S-641: USE 8' TOTAL SHOULDER
S-1133: USE 4' TOTAL SHOULDER

OLD SC 51, REGENT DRWY., RETAIL DR. } USE 6' TOTAL SHOULDER

USE 3D ON:
S-641 RETAIL DR.

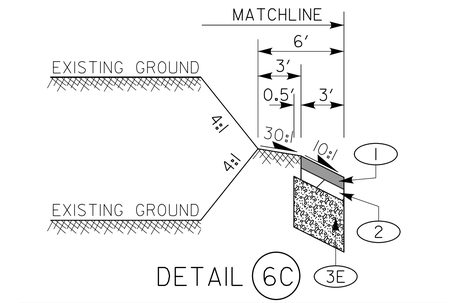
USE 3E ON:
S-1133 OLD SC 51 MERCANTILE PL. REGENT DRWY.



DETAIL 6B

NOTE: SEE PLAN AND CROSS SECTIONS FOR LOCATIONS OF CURB/GUTTER/SIDEWALK AT INTERSECTION CORNER RADII.

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
MERCANTILE PLACE STA. 10+33+50 TO STA. 11+40.00
LOCAL ROAD GRUOP 1:
LAKES BLVD STA. 10+41.68 TO STA. 12+21.42
DRIVEWAY:
EMBASSY DRIVEWAY STA. 10+70.68 TO STA. 11+45.00

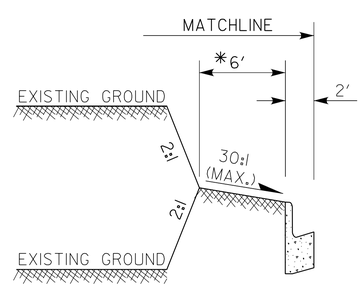


DETAIL 6C

USE THIS SECTION ON

LOCAL ROAD GRUOP 1:
S-676 (GARRISON FARM RD.) STA. 10+75.57 TO STA. 11+77.51

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES



DETAIL 6A

NOTE: SEE PLAN AND CROSS SECTIONS FOR LOCATIONS OF CURB/GUTTER/SIDEWALK AT INTERSECTION CORNER RADII.

USE THIS SECTION ON
LOCAL ROAD GROUP 4:
MERCANTILE PLACE STA. 10+33+50 TO STA. 11+40.00
LOCAL ROAD GRUOP 1:
LAKES BLVD STA. 10+41.68 TO STA. 12+21.42
DRIVEWAY:
EMBASSY DRIVEWAY STA. 10+70.68 TO STA. 11+45.00

⊗ NOTE:
THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12:1 AND A MAXIMUM SLOPE OF 2:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 2:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 2:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH. SEE PROFILE FOR THE SPECIAL DITCH GRADES.

PAVEMENT LEGEND	
1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3D	HOT MIX ASPHALT BASE COURSE, TYPE A (700 LBS./S.Y.)
3E	HOT MIX ASPHALT BASE COURSE, TYPE B (650 LBS./S.Y.)
4	VARIABLE DEPTH ASPHALT FOR BUILD UP
6	RETAIN EXISTING ASPHALT PAVEMENT

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

DESIGN SPEED			DESIGN SPEED		
MPH (ROAD)	FROM STA.	TO STA.	MPH (ROAD)	FROM STA.	TO STA.
35 (FLINT HILL @ US21)	10+33.55	16+51.98	15 (RETAIL)	12+75.00	13+69.22
35 (FLINT HILL @ SC51)	16+12.89	22+60.00	15 (LAKES)	10+41.68	12+21.42
30 (LAKESHORE)	12+70.00	14+13.11			
35 (OLD SC 51)	302+38.51	316+16.73			
35 (MERCANTILE)	10+33.50	11+40.00			
15 (REGENT DRIVEWAY)	10+33.50	11+50.00			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

REGISTERED LANDSCAPE ARCHITECT NO. 22780 CHRISTOPHER A. WILSON 1/11/2023 SOUTH CAROLINA

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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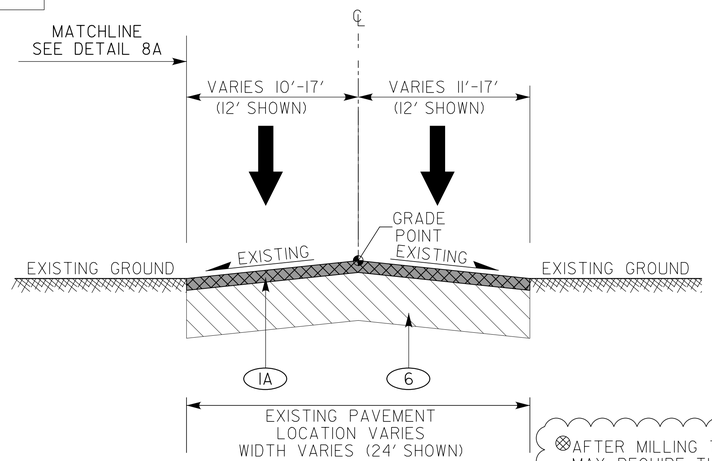
TYPICAL SECTION OF IMPROVEMENT

YORK COUNTY, SOUTH CAROLINA

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	3F



TYPICAL SECTION NO. 7

USE THIS SECTION ON
URBAN COLLECTOR:
S-48 (SPRINGHILL FARM RD. CUL-DE-SAC) STA. 15+60.00 TO STA. 22+00.00
LOCAL ROAD GROUP 1:
S-1470 (FOREST DR.) STA. 11+65.00 TO STA. 12+30.00
LAKES BLVD STA. 11+62.36 TO STA. 12+21.42
LOCAL ROAD GROUP 4:
OLD NATION RD. STA. 14+40.00 TO STA. 18+20.00
OLD SC 51 STA. 308+30.00 TO 315+05.00

S-1133, S-1134, S-1467, S-1469, J3-040, J3-076, J2-010: USE 4' TOTAL SHOULDER

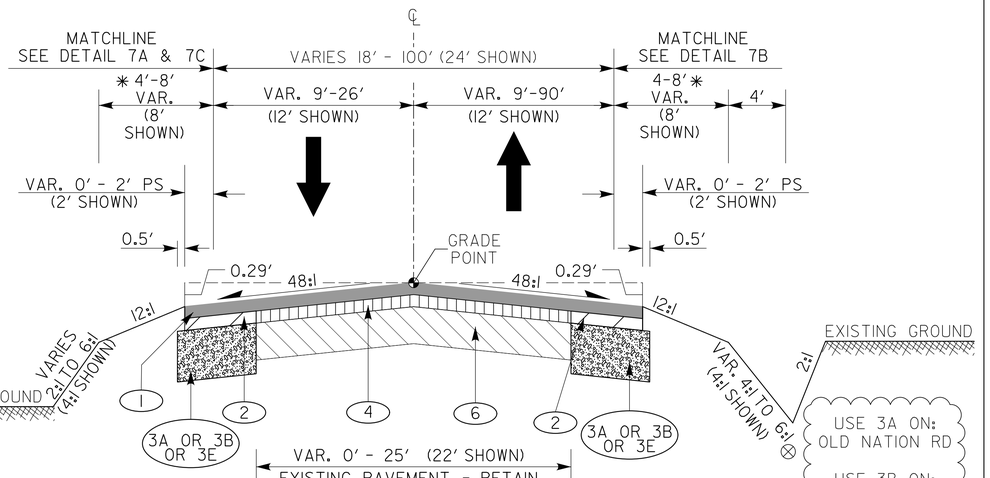
S-328 OLD NATION RD.: USE 6' TOTAL SHOULDER

S-48: USE 8' TOTAL SHOULDER

LAKES BLVD EMBASSY DR: USE DETAIL 6A & DETAIL 6B

S-676: USE 4' TOTAL SHLD & DETAIL 6C

⊗ AFTER MILLING THE EXISTING PAVEMENT THE RCE MAY REQUIRE THAT PORTIONS OF THE EXISTING PAVEMENT BE FULL DEPTH ASPHALT PAVEMENT PATCH (12" UNIFORM) BEFORE RESURFACING.



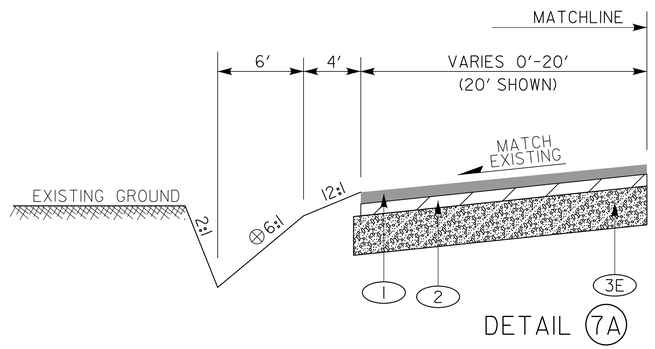
TYPICAL SECTION NO. 8

USE THIS SECTION ON
LOCAL ROAD GROUP 1:
S-1133 (LAKESHORE DR) STA. 12+70.00 TO STA. 14+13.11
S-1134 (LAKEVIEW RD.) STA. 13+85.00 TO STA. 14+84.26
S-1467 (AMELIA DR.) STA. 10+33.50 TO STA. 11+80.00
S-1469 (FERN FOREST CT.) STA. 10+33.50 TO STA. 11+65.00
S-676 (GARRISON FARM RD.) STA. 10+33.75 TO STA. 11+77.51
LAKES BLVD. STA. 10+41.68 TO STA. 11+62.36
J3-040 (BAXTER LN.) STA. 13+75.00 TO STA. 14+79.74
LOCAL ROAD GROUP 4:
J3-076 (CENTRAL CAROLINAS PKWY.) STA. 13+16.63 TO STA. 13+75.40
S-328 (ANDREW L. TUCKER RD.) STA. 00+37.38 TO STA. 03+90.00
OLD NATION RD. STA. 10+31.50 TO STA. 14+40.00 AND STA. 18+20.00 TO STA. 19+98.87
URBAN COLLECTOR:
S-48 (SPRINGHILL FARM RD. CUL-DE-SAC) STA. 22+00.00 STA. 23+60.07
DRIVEWAYS:
EMBASSY DR. STA. 10+33.52 TO 11+45.00
J2-010 (TERRY'S RD.) STA. 11+75.00 TO STA. 12+32.80

USE 3A ON:
OLD NATION RD

USE 3B ON:
J3-076
S-48

USE 3E ON:
S-1134
S-1467
S-1469
S-676
LAKES BLVD.
J3-040
S-328
EMBASSY DR.
J2-010



DETAIL 7A

USE THIS SECTION ON
LOCAL GROUP 1
S-1470 (FOREST DR.) STA. 11+65.00 TO STA. 12+30.00

HMA FOR BUILD-UP USE:
1. HMA SURFACE TYPE E FOR LIFTS LESS THAN OR EQUAL TO 1.5 INCHES
2. HMA INTERMEDIATE TYPE B FOR LIFTS GREATER THAN 1.5 INCHES

PAVEMENT LEGEND

1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
1A	2" MILLING AND RESURFACING HMA SURFACE TYPE B (210 LBS./S.Y.)⊗
2	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3A	HOT MIX ASPHALT BASE COURSE, TYPE A (1,100 LBS./S.Y.)
3B	HOT MIX ASPHALT BASE COURSE, TYPE A (850 LBS./S.Y.)
3E	HOT MIX ASPHALT BASE COURSE, TYPE B (650 LBS./S.Y.)
4	VARIABLE DEPTH ASPHALT FOR BUILD UP
6	RETAIN EXISTING ASPHALT PAVEMENT

NOTES:

SEE CROSS SECTIONS FOR LOCATIONS OF DIFFERENT CROSS SLOPES

SEE PLANS FOR LOCATIONS OF TURN LANES, PAVEMENT EDGE TAPERS, AND LANE TAPERS

SEE PLANS FOR LOCATIONS AND TYPES OF CURB AND GUTTER

SEE STANDARD DRAWING NO. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER (2')

SEE STANDARD DRAWING NO. 720-405-00 THRU 720-415-00 FOR DETAILS OF CONCRETE DRIVEWAYS

SEE PLANS FOR LOCATIONS OF CONCRETE SIDEWALK

SEE PLANS FOR LOCATIONS OF PEDESTRIAN RAMPS

SEE STANDARD DRAWINGS SECTION 720-900 FOR DETAILS OF CURB & GUTTER AND PEDESTRIAN RAMPS

SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT

* SEE PLANS FOR LOCATIONS OF GUARDRAIL. SEE STANDARD DRAWING SECTION 805 FOR DETAILS OF PRE-MASH AND MASH DEVICES. ADD 3.5' WHERE PRE-MASH GUARDRAIL COMPONENTS ARE USED AND 3.75' TO 6.25' WHERE MASH COMPONENTS ARE USED.

SEE PLANS FOR LOCATIONS OF CONCRETE MEDIANS

SEE STANDARD DRAWING NO. 720-105-03 FOR DETAILS OF CONCRETE MEDIANS

SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS

⊗ NOTE:
THIS SLOPE MAY BE VARIED WHEN A DEEPER DITCH IS NECESSARY FOR DRAINAGE PURPOSES, USING A MINIMUM SLOPE OF 12:1 AND A MAXIMUM SLOPE OF 2:1. WHERE A DEEPER DITCH THAN PROVIDED BY A 2:1 IS NECESSARY, THE DITCH SHALL BE PLACED FARTHER FROM THE ℄ CONTINUING THE 2:1 SLOPE TO PROVIDE FOR THE NECESSARY DEPTH. SEE PROFILE FOR THE SPECIAL DITCH GRADES.

HORIZONTAL 5 0 5 10 feet
VERTICAL 1 0 1 2 feet

DESIGN SPEED			DESIGN SPEED			DESIGN SPEED		
MPH (ROAD)	FROM STA.	TO STA.	MPH (ROAD)	FROM STA.	TO STA.	MPH (ROAD)	FROM STA.	TO STA.
35 (SPRINGHILL FARM CUL-DE-SAC)	15+60.00	23+60.07	35 (OLD SC 51)	302+38.51	316+17.73	30 (AMELIA)	10+33.50	11+80.00
25 (FERN FOREST)	10+33.50	11+65.00	35 (OLD NATION)	10+31.50	19+98.87	20 (EMBASSY)	10+33.52	11+45.00
25 (GARRISON FARM)	10+33.75	11+77.51	30 (LAKESHORE)	12+70.00	14+13.11			
25 (CENTRAL CAROLINAS)	13+16.63	13+75.40	15 (LAKES)	10+41.68	12+21.42			
35 (ANDREW L.TUCKER)	0+37.38	03+90.00	20 (TERRY'S)	11+75.00	12+32.80			
30 (LAKEVIEW)	13+85.00	14+84.26	20 (BAXTER)	13+75.00	14+79.74			
			30 (FOREST)	11+65.00	12+30.00			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

STV Incorporated
#969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT.

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RIGHT OF WAY DATA SHEET

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	4

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES[B]	OBTAIN				REMAINDER LEFT ACRES[A]	REMAINDER RIGHT ACRES[A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
1	D & DG LLC	7170000003	4.958 AC														
2	HALL GEORGE H	7170000002	1.623 AC														
3	HALL GEORGE H JR	7170000001	1.623 AC														
4	RUTLEDGE REALTY COMPANY INC	7170000005	0.000 AC														
5	THE J MAX HINSON SR & MARY W HINSON FAMILY LTD PARTNERSHIP	7170000023	2.082 AC														
6	OMITTED																
7	SPRINGFIELD TOWN CENTER LLC	202101302	4.598 AC														
8	CLEAR SPRINGS SPRINGFIELD LLC	202101291	35.249 AC														
9	MANTEKAS SOTIRIOS & JANET	7170000012	9.108 AC		31159 SF (0.715) AC		31159 SF (0.715) AC	8.393 AC					YES		YES		Obtain New R/W along Springfield Pkw y for York Co. Proj. No. 17228-015/SCDOT Proj. ID P039235. See Tr 9A (Sht 4D) for Addt'l R/W Acquisition Info
10	FLINT HILL VOLUNTEER FIRE DEPT	7190000176	3.563 AC			2803 SF (0.064) AC	2803 SF (0.064) AC		3.499 AC							YES	Obtain New R/W along Springfield Pkw y for York Co. Proj. No. 17228-015/SCDOT Proj. ID P039235
11	MANTEKAS SOTIRIOS & JANET	7170000014	1.945 AC										YES		YES		
12	YORK ELECTRIC COOPERATIVE INC	7190000014	2.274 AC			251 SF (0.006) AC	251 SF (0.006) AC		2.268 AC				YES		YES	YES	
13	NEW HORIZON ELECTRIC COOPERATIVE INC	7190000158	2.289 AC													YES	Permanent Drainage Easement of 147 SF for yard inlet
14	SPRINGFIELD COMMERCIAL ASSOCIATION, INC.	202101308	0.851 AC														
15	SPRINGFIELD TOWN CENTER LLC	202101305	1.963 AC														
16	HARRIS TEETER	202101304	1.083 AC										YES				
17	SPRINGVIEW MEADOWS HOA	7170000011	44.764 AC														Perm. Drainage Easm't w ith Temp. Const. Easm't for Slopes and Erosion Control of 9,296 SF
18	YORK ELECTRIC COOPERATIVE INC	7190000157	2.382 AC										YES		YES		EC Permission for Sediment Dams
19	COUNTY OF YORK	202101310	0.937 AC										YES		YES		
20	SPRINGFIELD TOWN CENTER LLC	202101303	0.884 AC			622 SF (0.014) AC	622 SF (0.014) AC		0.870 AC				YES		YES		SEE SHEETS 2-2B FOR PAY ITEM AND MOVING AND DISPOSAL OF EXISTING RETAINING WALL
21	TEBBS ALICE A	7190000050	1.132 AC			12519 SF (0.287) AC	12519 SF (0.287) AC		0.845 AC				YES		YES		SEE TRACT 21A (SHEET 4D) FOR ADDT'L R/W ACQUISITION INFORMATION
22	HARLLEE DAVID & MARY	7190000156	5.798 AC		60664 SF (1.393) AC		60664 SF (1.393) AC	4.405 AC									Temporary Construction Easement of 597 SF for Slopes and Erosion Control
23	KEENAN ERMA JANE & BETTY JANE	7190000178	0.350 AC			663 SF (0.015) AC	663 SF (0.015) AC		0.335 AC				YES		YES	YES	
24	SCOTT SHERRI LIFE ESTATE	7190000049	0.857 AC														
25	PATTERSON JOHN R & JOY J	7190000048	0.468 AC														
26	KHAKHOM KWANNET	7190000047	0.309 AC														
27	HUBBARD DAVID ERIC	7190000046	0.339 AC														
28	MARTINEZ RENE HUMBERTO & ISABEL MARTINEZ	7190000045	0.309 AC														
29	SCOTT WILLIAM D & DOROTHY D	7190000055	0.302 AC														
30	GILL ROBIN	7190000054	0.287 AC														
31	JEFFERSON RICHARD M	7190000053	0.308 AC														
32	AMON FREDERICK SR	7190000052	0.269 AC														
33	MACIAS ANTONIO & GREGORIA	7190000051	0.578 AC			846 SF (0.019) AC	846 SF (0.019) AC		0.559 AC								TEMPORARY CONSTRUCTION EASEMENT OF 429 SF TO CONSTRUCT DRIVEWAY & EROSION CONTROL
34	COALITION OF PRISON EVANGELIST	7190000094	0.207 AC			1041 SF (0.024) AC	1041 SF (0.024) AC		7,954 SF				YES		YES		
35	COALITION OF PRISON EVANGELIST	7190000093	0.265 AC														
36	BEAN DOROTHY J	7190000092	0.204 AC														
37	FRANKLIN BRENDA C	7190000091	0.234 AC														
38	BOONE ORVILLE B & RAYLETTA E	7190000090	0.234 AC														
39	THOMPSON TIM & LAURI	7190000089	0.551 AC														
40	ASH BRYAN N	7190000080	0.999 AC			9079 SF (0.208) AC	9079 SF (0.208) AC		0.791 AC						YES		SEE TRACT 40A (SHEET 4D) FOR ADDT'L R/W ACQUISITION INFORMATION

DATE	TRACT NO.	REMARKS
08/14/18	21	Increased Obtain Area
09/17/18	33	Converted Erosion and Entrance Permissions to Tce
11/29/18	34	Revised Guardrail and Added Drivew ay
04/03/19	33	Moved Drivew ay
09/23/19	9-17	Revised Typical Section and Reevaluated R/W & Perm. Needs.
10/04/19	14	Removed Obtain
02/06/20	18	Removed Obtain; Revised Property Lines
02/06/20	20	Revised Drainage; Reduced Obtain
03/17/20	17	Reduced Obtain Area
07/22/20	13	Changed Obtain to Permanent Drainage Easement
07/22/20	9	Added Obtain Area along Springfield Parkw ay
09/09/20	10	Added Obtain Area along Springfield Parkw ay
02/24/21	17	Converted New R/W to TCE
03/16/21	22	Revised New R/W
03/16/21	21 & 40	Revised New R/W show n under 21A & 40A
06/16/21	22	Added TCE and Removed Permissions
09/14/21	9	Revised New R/W show n under 9A
12/22/21	17	Revised TCE to Included & Retain Perm Drainage Easm't

R/W NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D

NOTES:

A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

B. TOTAL TRACT ACRES DETERMINED FROM DRAWING FILES.

STV Incorporated
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454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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RIGHT OF WAY DATA SHEET

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	4A

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES[B]	OBTAIN				REMAINDER LEFT ACRES[A]	REMAINDER RIGHT ACRES[A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
41	BATES MARIE B & ROGER DENNIS MCNUTT	7190000081	0.610 AC			3342 SF (0.077) AC	3342 SF (0.077) AC		0.533 AC				YES		YES		
42	MCCRAVEN CAROL	7190000177	0.397 AC													YES	
43	MCCRAVEN CAROL	7190000179	0.338 AC										YES		YES	YES	
44	EDWARDS RICHARD KENDRICK SR TRUSTEE	7190000101	18.182 AC		2100 SF (0.048) AC		2100 SF (0.048) AC	18.134 AC					YES		YES		
45	NEWMAN MICHAEL	7190000079	0.380 AC			2627 SF (0.060) AC	2627 SF (0.060) AC		0.320 AC	Re					YES		
46	GARCIA SAMUEL JR	7190000078	0.297 AC													YES	
47	MONTERROSO MATILDE & ORLANDO ARIAS	7190000077	0.288 AC														
48	WATFORD RUSSELL S & CLARA R	7190000076	0.269 AC														
49	HUBBARD ROY E & LINDA K	7190000075	0.292 AC														
50	REEL PROPERTY SOLUTIONS LLC	7190000074	0.338 AC														
51	CROSSROADS RETAIL LLC	7190000195	1.080 AC														
52	YORK COUNTY	7190000197	0.104 AC														
53	RP FM221 LLC	7190000194	8.816 AC			19619 SF (0.450) AC	19619 SF (0.450) AC		8.366 AC				YES		YES	YES	
54	GATEWAY FORT MILL LLC	7190000027	14.610 AC										YES		YES	YES	NOTE: SLOPE PERMISSION FOR TRACT 54 HAS ALREADY BEEN OBTAINED BY YORK COUNTY.
54A	YORK COUNTY	7190000027	2.606 AC		39954 SF (0.917) AC	31233 SF (0.717) AC	71187 SF (1.634) AC	0.972 AC	0.000 AC				YES		YES		
55	THE EUBANKS FAMILY LTD PARTNERSHIP	7190000100	54.830 AC		187152 SF (4.296) AC		187152 SF (4.296) AC	50.534 AC									T.C.E. OF 57,222 SF TO CONST SLOPES & EC, NOTE: TRACT 55A AREA SUBTRACTED FROM TRACT 55 AREA.
56	AMERICAS FINEST CAR WASH II LLC	7190000018	1.764 AC			12825 SF (0.294) AC	12825 SF (0.294) AC		1.470 AC							YES	TEMPORARY CONSTRUCTION EASEMENT OF 5690 SF TO CONSTRUCT SLOPES AND EROSION CONTROL
57	FAIRWAY TOWNES OWNERS ASSOC INC	7280000219	9.622 AC														
58	STORE MASTER FUNDING V LLS	7260000269	2.515 AC														
59	CAHILL DAVID	7260000316	1.973 AC												YES	YES	
60	GARRISON CHARLES H & BARBARA LEE CANTRELL	7260000083	42.347 AC														
61	CORBI MICHAEL	7260000001	0.377 AC														
62	N & W SMITH PROPERTIES FAMILY LTD PARTNERSHIP ETAL	7260000002	1.859 AC														
63	IVAC OF THE CAROLINAS REAL ESTATE CO LLC	7260000003	1.027 AC			1998 SF (0.046) AC	1998 SF (0.046) AC		0.981 AC								
64	IVAC OF THE CAROLINAS REAL ESTATE HOLDING CO LLC	7260000075	1.474 AC			9178 SF (0.211) AC	9178 SF (0.211) AC		1.263 AC								
65	SHELDON CHRISTOPHER	7190000025	1.257 AC			1138 SF (0.026) AC	1138 SF (0.026) AC		1.231 AC				YES		YES	YES	SEE TRACT 65A (SHEET 4D) FOR ADDT'L R/W ACQUISITION INFORMATION
66	BWD INC	7190000026	0.625 AC										YES		YES	YES	
67	SAMMY J. COLEY, AS SUCCESSOR TRUSTEE OF THE GRACE P. COLEY TRUST U/A	7260000006	1.175 AC			2481 SF (0.057) AC	2481 SF (0.057) AC		1.118 AC							YES	TRANSFER QUITCLAIM AREA (0.160 AC) TO OWNER
68	NORRIS JOYCE	7260000008	0.679 AC														
69	NORRIS JOYCE	7260000010	0.502 AC														
70	CLONTS BENJAMIN C	7260000013	0.387 AC														
71	SONG SONGMIN & SANG HUI	7260000017	1.231 AC			1336 SF (0.031) AC	1336 SF (0.031) AC		1.200 AC				YES	YES		YES	Temporary Construction Easement of 686 SF for Slopes and Erosion Control
72	AVANTI PROPERTIES LLC	7260000019	0.450 AC			1126 SF (0.026) AC	1126 SF (0.026) AC		0.424 AC							YES	Temporary Construction Easement of 800 SF for Slopes and Erosion Control
73	WHITMIRE JAMES & BETTY S AND DEBORAH MCLAUGHIN, JT	7260000020	0.290 AC			753 SF (0.017) AC	753 SF (0.017) AC		0.273 AC								SEE TRACT 73A (SHEET 4D) FOR ADDT'L R/W ACQUISITION INFORMATION
74	PATTERSON WAYNE	7260000021	4.228 AC			1502 SF (0.034) AC	1502 SF (0.034) AC		4.194 AC				YES		YES		
75	COLE MT. FORT MILL SC, LLC	7260000011	7.054 AC			3060 SF (0.070) AC	3060 SF (0.070) AC		6.984 AC							YES	Temporary Construction Easement of 6008 SF for Slopes and Erosion Control
76	1ST PATRIOTS FEDERAL CREDIT UNION	7260000318	0.888 AC			1672 SF (0.038) AC	1672 SF (0.038) AC		0.850 AC				YES		YES	YES	
77	MAM REGENT TOWNE CENTER OUTPARCEL LLC	7260000320	0.404 AC			75 SF (0.002) AC	75 SF (0.002) AC		0.402 AC								Temporary Construction Easement of 2070 SF for Slopes and Erosions Control
78	HILLCREST FOODS INC.	7260000319	1.112 AC			2111 SF (0.048) AC	2111 SF (0.048) AC		1.064 AC				YES		YES		
79	REGENT PARK COMMUNITY OWNERS ASSOC	7260000025	0.321 AC			2928 SF (0.067) AC	2928 SF (0.067) AC		0.254 AC								Temporary Construction Easement of 1422 SF for Slopes and Erosion Control

DATE	TRACT NO.	REMARKS
05/29/18	55	Added Drainage Structure Permission
07/17/18	54	Removed Obtain Areas
07/17/18	55	Revised RW at Pipe crossing & Removed Drainage Permission
07/18/18	62	Removed Slope Permission
09/11/18	56	Added TCE to cover Permissions
10/12/18	58	Removed Permission
11/01/18	53	Added Temporary Construction Easement
11/05/18	43	Removed RW Obtain
11/14/18	72	Revised Permissions to TCE
11/14/18	79	Revised Permissions to TCE
11/29/18	54A	Revised RW Area
12/06/18	54A	Revised RW Area
12/20/18	53	Revised RW and TCE
01/18/19	67	Increased RW to Obtain and Removed EC Permission
02/15/19	77	Revised Permissions to TCE
04/05/19	57	Removed Entrance Permission
04/08/19	71	Revised RW and Revised Permission to TCE
05/20/19	55	Revised Ex RW and Obtain Area
05/30/19	53	Removed TCE and added Permissions for Slopes and EC
09/20/19	66	Revised RW and added Area to be sw apped from Ex. RW
09/25/19	74, 75, 76	Removed Turn lane, Regent Drivew ay, and revised RW needs.
11/05/19	75	Revised Permissions to TCE
11/12/19	66	Removed RW Obtain and Revised Drainage
11/12/19	63	Revised Drainage and RW
02/06/20	55	Revised Total Tract Acres and Obtain
07/23/20	66	Removed R/W Obtain and Draiange Permission
08/11/20	55	Revised Total Tract Acres
08/24/20	54A	Revised New R/W
08/27/20	67	Revised Ow ner
09/03/20	73	Revised New R/W & Removed Permission
03/24/21	65	Revised New R/W show n under 65A
09/14/21	71	Revised New R/W added Slope & Drainage Permission
04/14/22	55	Added TCE & Removed Permission
07/19/22	54, 63	Corrected Obtain Area
07/19/22	73	Revised R/W Obtain and added Remark
07/19/22	67	Added Quitclaim Area to Remarks

R/W NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D

NOTES:

A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.
B. TOTAL TRACT ACRES DETERMINED FROM DRAWING FILES.

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RIGHT OF WAY DATA SHEET

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	4B

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES[B]	OBTAIN				REMAINDER LEFT ACRES[A]	REMAINDER RIGHT ACRES[A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
80	BAHERI MEHRDAD ALI	7190000099	1.501 AC		1177 SF (0.027) AC		1177 SF (0.027) AC	1.474 AC								YES	
81	H & A ASSOCIATES LLC	7210000016	0.854 AC													YES	
82	H & A ASSOCIATES LLC	7190000182	2.076 AC														
83	CITRO SALVATORE, TRUSTEE	7210000045	4.294 AC		503 SF (0.012) AC		503 SF (0.012) AC	4.282 AC									
84	ROSS DRESS FOR LESS INC 4440 ROSEWOOD DR BLDG 4	7210000069	29.718 AC														
85	GTA PROPERTIES LLC	7210000015	4.845 AC		2548 SF (0.058) AC		2548 SF (0.058) AC	4.787 AC					YES			YES	
86	ROSS DRESS FOR LESS INC	7210000063	9.607 AC														
87	MCMEHAN TENY LOIS	7210000014	3.346 AC		965 SF (0.022) AC		965 SF (0.022) AC	3.324 AC					YES		YES	YES	
88	CV HWY 21 LLC	7210000013	7.219 AC		728 SF (0.017) AC		728 SF (0.017) AC	7.202 AC					YES	YES	YES	YES	
89	FORT MILL CROWN PLAZA LLC	7260000028	6.128 AC			2409 SF (0.055) AC	2409 SF (0.055) AC		6.073 AC							YES	TEMPORARY CONSTRUCTION EASEMENT OF 4086 SF FOR SLOPES AND EROSION CONTROL
90	RHODES JOSHUA C., ET AL	7260000029	1.030 AC										YES		YES	YES	
91	WAL-MART REAL EST BUSINESS TR	7210000023	24.618 AC			1609 SF (0.037) AC	1609 SF (0.037) AC		24.581 AC								Revised Total Tract Acres based on EX RW limits from Court Order No 2016-CP-46-2454
92	WAL-MART TRS LLC %WAL-MART PROPERTY TX DEPT	7210000072	1.311 AC														
93	WAL-MART TRS LLC	7210000071	1.546 AC			1741 SF (0.040) AC	1741 SF (0.040) AC		1.506 AC								Temporary Construction Easement of 2184 SF for Slopes and Erosion Control
94	WALKER CORP INC	7210000009	0.356 AC														
95	WALKER CORP INC	7210000008	0.366 AC														
96	WALKER CORP INC	7210000007	0.328 AC														
97	WALKER CORP INC	7210000057	1.223 AC														
98	A & P CAR CARE CENTER INC	7210000005	1.573 AC														
99	STERLING YORK LLC	7210000064	1.843 AC														
100	FURR JULIA	7210000004	3.285 AC														
101	SC DOT	7210000047	0.000 AC														
102	NC STORAGE LLC	7210000002	0.000 AC														
103	FURR JULIA ZORADO	7210000001	5.563 AC		125 SF (0.003) AC		125 SF (0.003) AC	5.560 AC					YES		YES		
104	CAROWINDS POINT CROSSING LLC	7210000040	19.469 AC	0.315 AC			13731 SF (0.315) AC	19.154 AC									
105	JUNG PROPERTIES LLC	7210000025	0.990 AC														
106	HUDSON PROPERTY MANAGEMENT, LLC	7210000027	5.497 AC		4979 SF (0.114) AC		4979 SF (0.114) AC	5.383 AC									Revised Total Tract Acres based on EX RW limits from Court Order No 2016-CP-46-2454
107	EXIT 68 LLC	7210000042	2.695 AC		8131 SF (0.187) AC		8131 SF (0.187) AC	2.508 AC									Revised Total Tract Acres based on EX RW limits from Court Order No 2016-CP-46-2454, , Temp. Const. Easement of 2223 SF For slopes, drainage and EC
108	COMPACT POWER EQUIPMENT LLC	7210000051	2.668 AC										YES		YES		
109	NARROWAY PRODUCTIONS INC	7210000036	0.997 AC												YES	YES	EC Permission for Inlet Protection Silt Fence, Property Ow ner Changed per Deed
110	NARROWAY PRODUCTIONS INC	7210000033	1.900 AC										YES	YES	YES	YES	
111	NARROWAY PRODUCTIONS INC	7210000038	0.901 AC												YES		Property Ow ner Changed per Deed
112	PAPILLON LLC	7210000028	0.780 AC														
113	ALLSTATE CONSTRUCTION INC	7210000049	1.126 AC			4083 SF (0.094) AC	4083 SF (0.094) AC		1.032 AC								TR 113A Seperated from TR 113 per Plat: BK 160 PG 339
114	194 SPRINGHILL FARMS ROAD, LLC	7210000010	16.370 AC		6599 SF (0.151) AC	12214 SF (0.280) AC	18813 SF (0.432) AC	15.251 AC	0.688 AC							YES	Temporary Construction Easement of 14,269 SF for Slopes and Erosion Control
115	TAYLOR/YORK PROPERTIES LLC	7250000022	2.041 AC		816 SF (0.019) AC		816 SF (0.019) AC	2.022 AC									Temporary Construction Easement of 941 SF for Slopes and Erosion Control
116	COMPACT POWER EQUIPMENT CENTERS LLC	7210000019	3.953 AC														
117	AUSTIN EUGENE TRUSTEE	7210000020	3.425 AC														
118	SPARROW ROBERT CLAY	7210000030	4.071 AC		5540 SF (0.127) AC		5540 SF (0.127) AC	3.944 AC							YES		EC Permission for Sediment Dam SD-5
119	UNIQUE STONE CREATIONS INC	7210000034	1.855 AC			671 SF (0.015) AC	671 SF (0.015) AC								YES	YES	EC Permission for Sediment Tubes outside of R/W

DATE	TRACT NO.	REMARKS
09/18/18	89	Added Temporary Construction Easement
10/19/18	114	Added Temporary Construction Easement
11/30/18	93	Revised Obtain Area
11/30/18	91, 93, 106, & 107	Revised Ex RW and Total Tract Acres Per Court Order No 2016-CP-46-2454
03/18/19	87	Revised RW Obtain
04/18/19	115	Added TCE & Removed Slope and EC Permissions
04/19/19	88	Revised Ex. RW and Total Tract Acres
05/19/19	80	Revised Ex. RW, Total Tract Acres, Obtain Area, & Permissions
05/21/19	80	Revise Obtain and Removed Permission
07/08/19	91	Removed Permission for EC
07/08/19	93	Added Temporary Construction Easement for Slope & EC Perm.
08/01/19	107	Added Temporary Construction Easement
08/26/19	109 & 111	Changed Property Ow ner to Narrow ay Theatre(Tract 110)
08/27/19	113	Revised total Property Area per Plat
10/31/19	114	Revised Obtain to include Uneconomic remainder
03/06/20	114	Revised Total Property Area per Deeds
07/14/20	104	Revised Obtain
07/28/20	104	Reduced Obtain due to removal of 2 outfalls
10/30/20	115	Subdivided tract into 115 & 115A
05/06/21	80	Added Entrance Permission for Added Drivew ay

R/W NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D

NOTES:

A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

B. TOTAL TRACT ACRES DETERMINED FROM DRAWING FILES.

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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RIGHT OF WAY DATA SHEET

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	4C

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES[B]	OBTAIN				REMAINDER LEFT ACRES[A]	REMAINDER RIGHT ACRES[A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
120	ATCF REO	7210000035	1.003 AC													YES	Temporary Construction Easement of 776 SF for Slopes and Erosion Control
121	MAURER HOLDINGS LLC	7210000046	5.749 AC			251 SF (0.006) AC	251 SF (0.006) AC		5.743 AC				YES		YES		
122	CRUMP GEORGE	7210000039	1.880 AC			1466 SF (0.034) AC	1466 SF (0.034) AC		1.846 AC								Temporary Construction Easement of 2,127 SF for Slopes and Erosion Control
123	TAYLOR /HORRY PROPERTIES LLC	7250000015	3.681 AC			1320 SF (0.030) AC	1320 SF (0.030) AC		3.651 AC							YES	Temporary Construciton Easement of 2261 SF for Slopes and Erosion control
124	YORK COUNTY	7250000027	0.105 AC										YES		YES		
125	3551 HWY 51 PROPERTY MGMT LLC % JONATHAN W ROSS	7250000029	1.704 AC														
126	RESOURCE PROPERTIES VII ASSOC	7250000031	2.358 AC		6106 SF (0.140) AC	4510 SF (0.104) AC	10616 SF (0.244) AC	1.046 AC	1.067 AC								Temporary Construction Easement of 69 SF for Slopes
127	ZOLOTARYOV GENNADY & EMMA KARAPETIAN	7250000010	2.158 AC		776 SF (0.018) AC		776 SF (0.018) AC	2.140 AC									Temporary Construction Easement of 1,268 SF for Slopes and Erosion Control
128	LATHAM CARL III ETAL	7250000034	0.021 AC		902 SF (0.021) AC		902 SF (0.021) AC	0.000 AC									
129	MONROE PROPERTIES	7250000007	0.170 AC		208 SF (0.005) AC		208 SF (0.005) AC	7,197 SF					YES				
130	VICK WILLIAM W	7250000016	0.937 AC			6254 SF (0.144) AC	6254 SF (0.144) AC		0.793 AC				YES	YES	YES		
131	VICK WILLIAM W	7250000011	0.841 AC			6949 SF (0.160) AC	6949 SF (0.160) AC		0.681 AC				YES		YES		
132	VICK WILLIAM W	7250000012	0.483 AC		3055 SF (0.070) AC	3415 SF (0.078) AC	6469 SF (0.149) AC	5,791 SF	8,789 SF								
133	QUALITY POOLS GROUP, INC.	7250000014	2.022 AC			4189 SF (0.096) AC	4189 SF (0.096) AC		1.926 AC				YES	YES	YES	YES	See Tr 133A (Sht 4D) for Addt'l R/W Acquisition Info
134	VICK WILLIAM W	7250000013	2.178 AC			4815 SF (0.111) AC	4815 SF (0.111) AC		2.067 AC								
135	SUTTON THOMAS D SR	7260000081	1.095 AC														
136	YORK ELECTRIC COOPERATIVE INC	7260000065	0.967 AC														
137	ENGLISH TRAILS HOMEOWNER ASSOC INC	7261201083	9.861 AC														
138	CIRCLE B PROPERTIES	7250000192	1.533 AC		820 SF (0.019) AC		820 SF (0.019) AC	1.514 AC					YES		YES		
139	SIMON & WATSON ENTERPRISES LLC	7250000288	1.420 AC		402 SF (0.009) AC		402 SF (0.009) AC	1.411 AC	0.000 AC								
140	SOUTH CAROLINA BRISTOL EAST RETURN LLC	7250000289	3.089 AC														
142	OMANRA INTERNATIONAL INC	7250000003	1.888 AC			3413 SF (0.078) AC	3413 SF (0.078) AC		1.810 AC							YES	Temporary Construction Easement of 1,268 SF for Slopes and Erosion Control
143	OMANRA INTERNATIONAL INC	7250000002	1.107 AC			2157 SF (0.050) AC	2157 SF (0.050) AC		1.057 AC							YES	Temporary Construction Easement of 697 SF for Slopes and Erosion Control
144	MILLER CHARLES STEPHEN	7250000018	3.959 AC			6862 SF (0.158) AC	6862 SF (0.158) AC		3.801 AC				YES		YES	YES	
145	MILLER CHARLES STEPHEN ET AL	7250000017	10.949 AC			6239 SF (0.143) AC	6239 SF (0.143) AC		10.806 AC				YES		YES	YES	
146	MILLER JAMES ROSS & Johnie M	7250000017	11.520 AC		5090 SF (0.117) AC		5090 SF (0.117) AC	11.403 AC					YES		YES	YES	
147	MONROE PROPERTY MANAGEMENT LLC	7250000066	1.688 AC		1428 SF (0.033) AC		1428 SF (0.033) AC	1.655 AC							YES		
148	WAREHOUSE ONE, LLC & FMK MANAGEMENT, LLC	7250000067	1.102 AC										YES		YES		
149	DFJ ENTERPRISES INC	7250000065	1.411 AC														
150	WORLDWIDE VENTURES INC	7250000038	3.848 AC														
151	TEAM PROPERTIES LP	7250000039	2.452 AC														
152	BROWN ENTERPRISES	7250000046	2.195 AC														
153	SPRINGHILL FLEX LLC % THE TOMLIN GROUP LLC	7250000047	1.602 AC														
154	RESOURCE PROPERTIES V ASSOC	7250000025	8.552 AC		19812 SF (0.455) AC	12596 SF (0.289) AC	32408 SF (0.744) AC	1.934 AC	5.874 AC							YES	
155	RESOURCE PROPERTIES IV ASSOCIA	7250000021	5.532 AC														
156	I N A BEARING COMPANY INC	7250000009	59.696 AC														
157	CHARLES STEPHEN MILLER	22101201	0.000 AC														
158	THE JAMES ROSS MILLER, JR. FAMILY LIMITED PARTNERSHIP	20504114															
159	CMJ FAIRFIELD ROAD LLC	7210000031	1.983 AC			5094 SF (0.117) AC	5094 SF (0.117) AC		1.866 AC							YES	

DATE	TRACT NO.	REMARKS
09/13/18	127	Added RW Line across Existing RW
01/22/19	142	Added TCE and removed Slope and EC permissions
01/22/19	143	Added TCE and removed Slope and EC permissions
02/01/19	122	Revised RW and Added Temporary Construction Easement
02/01/19	146	Revised RW to tie to New State Line Location
03/28/19	127	Revised RW Line across Existing RW
03/28/19	129	Revised RW Line across Existing RW
04/05/19	120	Added TCE and removed Slope and EC permissions
04/12/19	126	Added TCE and removed Slope permissions
04/12/19	127	Added TCE and removed Slope and EC permissions
04/18/19	123	Added TCE and removed Slope and EC permissions
08/23/19	141	Tract 141 Removed and combined with Tract 140
03/17/20	129	Added Obtain Area to Tract 129
03/27/20	154	Added Entrance permission.
10/30/20	123	Subdivided tract into 123 & 123A
01/14/21	154	Corrected Obtain Left SF Area
12/22/21	133	Additional Perm Drainage Easmt Shown Under 133A
07/19/22	126	Corrected Obtain Area
07/19/22	128	Corrected Obtain Area, Removed Slope Permissions

R/W NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D

NOTES:

A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

B. TOTAL TRACT ACRES DETERMINED FROM DRAWING FILES.

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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RIGHT OF WAY DATA SHEET

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	4D

TRACT NO.	PROPERTY OWNER	TAX MAP REFERENCE	TOTAL TRACT ACRES[B]	OBTAIN				REMAINDER LEFT ACRES[A]	REMAINDER RIGHT ACRES[A]	DATE ACQUIRED	TYPE OF INSTRUMENT	PERMISSION (YES)					REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL					OUTFALL DITCH	SLOPE	DRAINAGE STRUCTURE	EROSION CONTROL	ENTRANCE CONSTRUCTION	
160	ALL STATES CONSTRUCTION CO., INC.	7210000048	0.683 AC														
161	ALL STATES CONSTRUCTION CO., INC.	7210000021	0.245 AC														
162	HOF, LLC	7210000055	2.555 AC		14522 SF (0.333) AC		14522 SF (0.333) AC	2.222 AC									Temporary Construction Easement of 4,612 SF for slopes
163	MCDONALDS REAL ESTATE COMPANY	7210000029	3.651 AC													YES	
164	UNIQUE USA, INC.	7210000037	4.635 AC														
165	ARC PSFMLSC001, LLC	7210000037	0.850 AC														
166	BRYANT W. CUTTER AND NANCY L. CUTTER	7210000062	1.503 AC														
167	MONEYLINE PROPERTIES, LLC	7210000061	1.500 AC													YES	
168	C & A PYRO, LLC	7210000059	3.264 AC													YES	
169	MAR REAL ESTATE, LLC	7210000042	1.373 AC														
170	SPRINGFIELD TOWN CENTER LLC	0202101337	4.330 AC										YES		YES		
171	TWIN LAKES MOBILE HOME ESTATES	7260000027	29.000 AC														
172	ANNE BIGGERS FURR	7260000074	0.239 AC														
173	FORT MILL SCHOOL DISTRICT NO.4	7190000143	0.050 AC		2188 SF (0.050) AC		2188 SF (0.050) AC	0.000 AC									
174	HALL RAYMOND C. & PEGGY ROBINSON	7190000102	0.642 AC			1098 SF (0.025) AC	1098 SF (0.025) AC		0.617 AC								
175	HALL RAYMOND C. & PEGGY ROBINSON	7190000102	0.475 AC			3080 SF (0.071) AC	3080 SF (0.071) AC		0.404 AC								
176	ROBERT E EDWARDS	7190000186	0.878 AC														
177	CORVAIA FRANK & KATHLEEN	7190000104	0.669 AC			311 SF (0.007) AC	311 SF (0.007) AC		0.662 AC								
178	CORVAIA FRANK & KATHLEEN	7190000105	0.890 AC														
179	WALTER L & JOYCE H CORDELL	7190000106	0.726 AC														
180	BOBBY J HALL	7190000107	0.643 AC														
181	BOBBY HALL	7190000108	0.708 AC														
182	NICHOLAS W SCHACHNER	7190000109	0.693 AC														
183	DEWEY E HOWEY & ELIZABETH ANN POOLE HOWEY, TRUSTEES OF THE HOWEY LIVING TRUST	7190000191	1.595 AC														
184	DEWEY E HOWEY	7190000184	0.884 AC														
185	ROSS DRESS FOR LESS	7210000063	107.816 AC										YES			YES	
113A	NARROWAY PRODUCTIONS INC	7210000078	0.661 AC														TR 113A Seperated from TR 113 per Plat: BK 160 PG 339
186	FORT MILL SCHOOL DISTRICT NO.4	7190000199	40.362 AC		251 SF (0.006) AC		251 SF (0.006) AC	40.356 AC									
55A	FORT MILL SCHOOL DISTRICT NO.4	7190000100	18.248 AC														Parcel A (DB 2092 Page 114); Portion of Parcel 7190000100; Fort Mill School District to purchase
173A	FORT MILL SCHOOL DISTRICT NO.4	7190000199	1.729 AC														
115A	TAYLOR/YORK PROPERTIES LLC	7250000302	1.616 AC		221 SF (0.005) AC		221 SF (0.005) AC	1.611 AC									Temporary Construction Easement of 185 SF for Slopes and Erosion Control
123A	TAYLOR /HORRY PROPERTIES LLC	7250000303	7.885 AC			3679 SF (0.084) AC	3679 SF (0.084) AC		7.801 AC								Temporary Construciton Easement of 4012 SF for Slopes and Erosion control
21A & 21B	TEBBS ALICE A	7190000050	0.845 AC			36791 SF (0.845) AC	36791 SF (0.845) AC		0.000 AC								Addt'l Acquistion Area from Tr 21, Acquired Remainder of Tr 21A (4,752 SF SCDOT); Tr 21B (32,039 SF York County)
40A	ASH BRYAN N	7190000080	0.790 AC			3700 SF (0.085) AC	3700 SF (0.085) AC		0.705 AC								Additional Acquistion Area from Tract 40
65A	SHELDON CHRISTOPHER	7190000025	1.231 AC			213 SF (0.005) AC	213 SF (0.005) AC		1.226 AC								Additional Acquistion Area from Tract 65
9A	MANTEKAS SOTIRIOS & JANET	7170000012	8.393 AC		4790 SF (0.110) AC		4790 SF (0.110) AC	8.283 AC									Additional Acquistion Area from Tract 9
133A	QUALITY POOLS GROUP, INC.	7250000014	1.926 AC														Perm Drainage Easmt of 330 SF for Yard Inlet, Additional Acquistion Area from Tract 133
73A	WHITMIRE JAMES & BETTY S AND DEBORAH MCLAUGHIN, JT	7260000020	0.273 AC			11905 SF (0.273) AC	11905 SF (0.273) AC		0.000 AC								ADDT'L ACQUISTION AREA FROM 73
54B	GATEWAY FORT MILL LLC	7190000027	0.216 AC			9428 SF (0.216) AC	9428 SF (0.216) AC		0.000 AC								AREA OBTAIN PRIOR TO R/W OBLIGATION SHOWN FOR INFORMATION

DATE	TRACT NO.	REMARKS
07/19/18	160	Removed Drive Permission
07/19/18	163	Added Drive Permission/Removed Obtain
12/04/18	162	Added TCE and removed Slope permission
04/11/19	162	Added Drivew ay on SC 51
04/19/19	163	Removed Drainage Structure Permission
08/27/19	113A	Property added per Plat
02/06/20	186	Property added per Plat
02/06/20	55A	Property added per Plat
08/11/20	173A	Added tract
08/11/20	55A	Revised ow ner
08/11/20	173	Revised Total Tract Ac and Remainder
09/08/20	185	Removed New R/W added Slope & Entrance Permission
10/30/20	115A & 123A	Subdivided tract 115 & 123, Add Tracts
03/16/21	21A & 40A	Added Tract No - Additional R/W
03/24/21	65A	Added Tract No - Additional R/W for MASH
09/14/21	9A	Added Tract No - Additional R/W
10/06/21	21A	Revised Obtain & Remarks
10/13/21	21A & 21B	Added Tract No 21B to 21A and Revised Remarks
11/02/21	161	Removed Entrance Permissions
12/22/21	133A	Added Tract No - Additional Perm Draiange Easmt
05/04/22	173	Revised Ow ner
07/19/22	73A & 54B	Added Tract No

R/W NOTE: THE DEPARTMENT WILL UTILIZE THE PRESENT RIGHT OF WAY AS SHOWN BELOW EXCEPT AS OTHERWISE SHOWN ON PLANS.

ROAD / ROUTE #	FILE #	R/W WIDTH	YEAR ACQ'D

NOTES:

A. SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.

B. TOTAL TRACT ACRES DETERMINED FROM DRAWING FILES.

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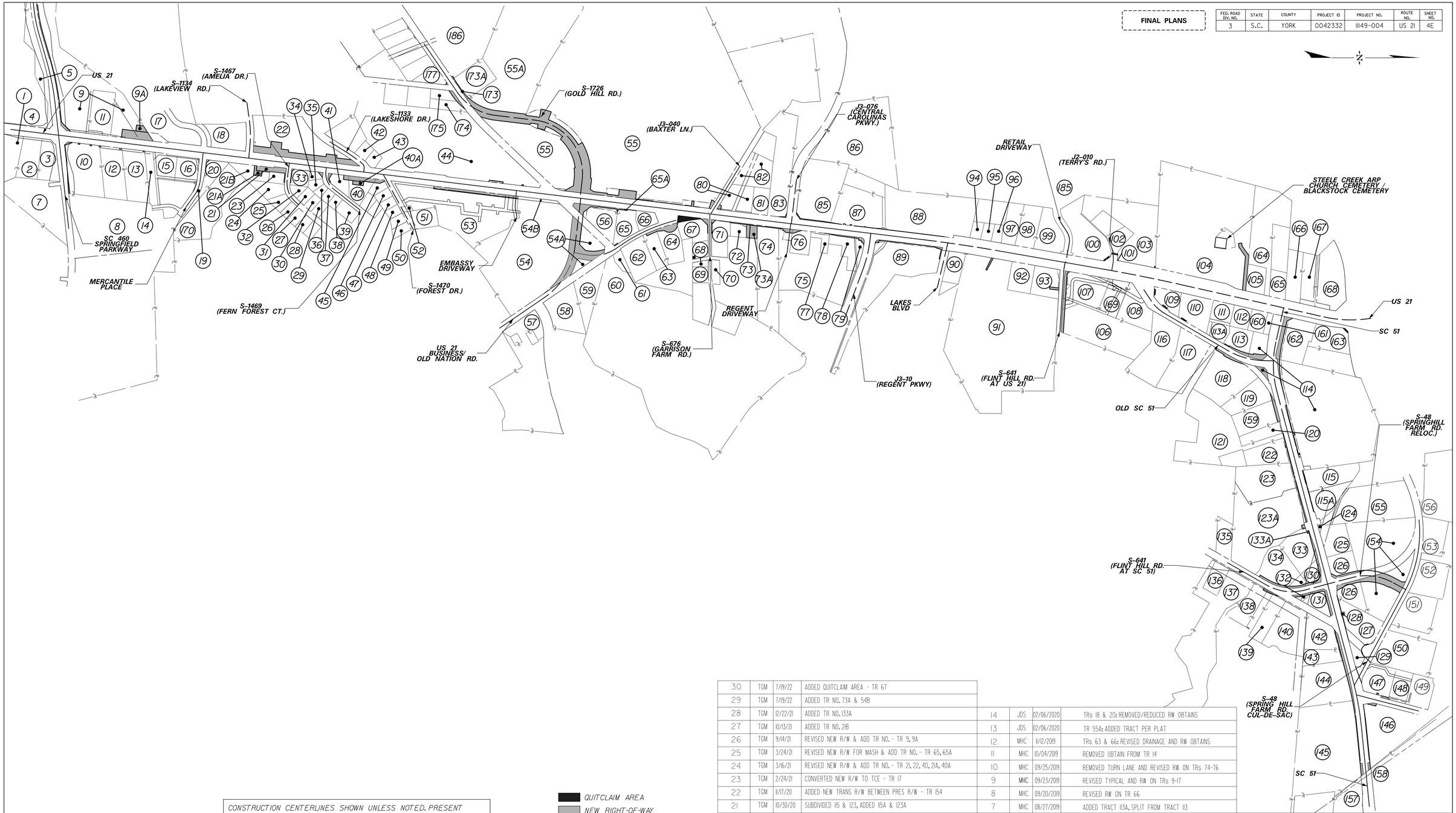
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	4E



CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

ACREAGE SHOWN IS PRESENT TOTAL TRACT ACRES FROM PROPERTY DATA RESEARCH AND SURVEYS BY CH ENGINEERING. PRESENT RIGHT-OF-WAY VERIFICATION WAS CONDUCTED BY CH ENGINEERING.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

QUITCLAIM AREA

NEW RIGHT-OF-WAY

400 0 400 800
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
30	TGM	7/19/22	ADDED QUITCLAIM AREA - TR 67
29	TGM	7/19/22	ADDED TR NO. 73A & 54B
28	TGM	12/22/21	ADDED TR NO. 133A
27	TGM	10/13/21	ADDED TR NO. 21B
26	TGM	9/14/21	REVISED NEW R/W & ADD TR NO. - TR 9, 9A
25	TGM	3/24/21	REVISED NEW R/W FOR MASH & ADD TR NO. - TR 65, 65A
24	TGM	3/16/21	REVISED NEW R/W & ADD TR NO. - TR 21, 22, 40, 21A, 40A
23	TGM	2/24/21	CONVERTED NEW R/W TO TCE - TR 17
22	TGM	11/17/20	ADDED NEW TRANS R/W BETWEEN PRES R/W - TR 154
21	TGM	10/30/20	SUBDIVIDED 115 & 123, ADDED 115A & 123A
20	TGM	08/24/2020	REVISED TR 54A NEW R/W TRANS. ADDED TR 173A
19	TGM	08/11/2020	REVISED TR 173
18	JDS	07/28/2020	TR 104: ADDED R/W FOR OUTFALL; REMOVED NEW R/W FOR 2 OUTFALLS
17	JDS	07/22/2020	TR 13: CHANGED R/W TO PERM. DRAINAGE EASEMENT
16	JDS	07/22/2020	TR 9: ADDDED RW OBTAIN AREA
15	JDS	03/17/2020	TR 17: REDUCED RW OBTAIN AREA
14	JDS	02/06/2020	TRs 18 & 20: REMOVED/REDUCED RW OBTAINS
13	JDS	02/06/2020	TR 55A: ADDED TRACT PER PLAT
12	MHC	11/12/2019	TRs 63 & 66: REVISED DRAINAGE AND RW OBTAINS
11	MHC	10/04/2019	REMOVED OBTAIN FROM TR 14
10	MHC	09/25/2019	REMOVED TURN LANE AND REVISED RW ON TRs 74-76
9	MHC	09/23/2019	REVISED TYPICAL AND RW ON TRs 9-17
8	MHC	09/20/2019	REVISED RW ON TR 66
7	MHC	08/27/2019	ADDED TRACT 113A, SPLIT FROM TRACT 113
6	MHC	08/26/2019	REMOVED TRACT 141, COMBINED WITH TRACT 140
5	JDS	11/30/2018	TRACT 93,106,107: REVISED EXISTING & NEW R/W
4	JDS	08/14/2018	TRACT 21: INCREASED OBTAIN AREA
3	JDS	05/18/2018	TRACT 163: ELIMINATED NEW R/W
2	JDS	05/18/2018	CORRECTED NUMBER LABEL ON TRACT 54A
1	JDS	05/11/2018	TRACT 54: ELIMINATED NEW R/W

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP OVERVIEW

SCALE 1"=400' RTE. US 21 DWG. NO. 4E

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	4F

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
1	D & DG LLC	4.958 AC
2	HALL GEORGE H	1.622 AC
3	HALL GEORGE H JR	1.623 AC
4	RUTLEDGE REALTY COMPANY INC	
5	THE J MAX HINSON SR & MARY W HINSON FAMILY LTD PARTNERSHIP	2.082 AC
6	OMITTED	
7	SPRINGFIELD TOWN CENTER LLC	4.598 AC
8	CLEAR SPRINGS SPRINGFIELD LLC	35.249 AC
9	MANTEKAS SOTIRIOS & JANET	9.108 AC
10	FLINT HILL VOLUNTEER FIRE DEPT	3.563 AC
11	MANTEKAS SOTIRIOS & JANET	1.945 AC
12	YORK ELECTRIC COOPERATIVE INC	2.274 AC
13	NEW HORIZON ELECTRIC COOPERATIVE INC	2.289 AC
14	SPRINGFIELD COMMERCIAL ASSOCIATION, INC.	0.851 AC

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
15	SPRINGFIELD TOWN CENTER LLC	1.963 AC
16	HARRIS TEETER	1.083 AC
17	SPRINGVIEW MEADOWS HOA	44.764 AC
18	YORK ELECTRIC COOPERATIVE INC	2.382 AC
19	COUNTY OF YORK	0.937 AC
20	SPRINGFIELD TOWN CENTER LLC	0.883 AC
21	TEBBS ALICE A	1.132 AC
22	HARLLEE DAVID & MARY	5.798 AC
23	KEENAN ERMA JANE & BETTY JANE	0.350 AC
24	SCOTT SHERRI LIFE ESTATE	0.857 AC
25	PATTERSON JOHN R & JOY J	0.468 AC
26	KHAKHOM KWANNET	0.309 AC
27	HUBBARD DAVID ERIC	0.338 AC

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
28	MARTINEZ RENE HUMBERTO & ISABEL MARTINEZ	0.309 AC
29	SCOTT WILLIAM D & DOROTHY D	0.302 AC
30	GILL ROBIN	0.287 AC
31	JEFFERSON RICHARD M	0.308 AC
32	AMON FREDERICK SR	0.269 AC
33	MACIAS ANTONIO & GREGORIA	0.578 AC
34	COALITION OF PRISON EVANGELIST	0.206 AC
35	COALITION OF PRISON EVANGELIST	0.265 AC
36	BEAN DOROTHY J	0.204 AC
37	FRANKLIN BRENDA C	0.234 AC
38	BOONE ORVILLE B & RAYLETTA E	0.234 AC
41	BATES MARIE B & ROGER DENNIS MCNUTT	0.610 AC
170	SPRINGFIELD TOWN CENTER LLC	4.330 AC
178	CORVAIA FRANK & KATHLEEN	0.890 AC

NOTE: OBTAIN NEW R/W FOR YORK CO. PROJ. NO. 17228-015/ SCDOT PROJECT ID P039235

CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

ACREAGE SHOWN IS PRESENT TOTAL TRACT ACRES FROM PROPERTY DATA RESEARCH AND SURVEYS BY CH ENGINEERING. PRESENT RIGHT-OF-WAY VERIFICATION WAS CONDUCTED BY CH ENGINEERING.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

RELOCATE S-1467 CENTERLINE STA. 10+00.00 TO STA. 14+20.91

RELOCATE S-1134 CENTERLINE STA. 10+00.00 TO STA. 15+17.77

RELOCATE S-1469 CENTERLINE STA. 10+36.18 TO STA. 12+14.79

NEW RIGHT-OF-WAY

scale 100 0 100 200 feet

MATCH LINE STA. 41+00.00 SEE SHEET NO. 4G

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
13	TGM	12/22/2021	REVISED TCE TO INCLUDE PERM DRAINAGE EASMT - TR 17
12	TGM	10/13/21	ADDED TR NO. 21B
11	TGM	9/14/2021	REVISED R/W & ADDED TR NO. - TR 9, 9A
10	TGM	6/16/21	ADDED TCE - TR 22
9	TGM	3/16/21	REVISED R/W & ADDED TR NO. - TR 21, 22, 21A
8	TGM	2/24/21	CONVERTED NEW R/W TO TCE - TR 17
7	TGM	9/9/2020	ADDED OBTAIN ON TR. 10
6	JDS	7/22/2020	ADDED OBTAIN ON TR. 9; CHANGED OBTAIN TO PDE ON TR. 13
5	JDS	3/17/2020	REDUCED OBTAIN ON TR 17
4	JDS	2/06/2020	REMOVED/REDUCED OBTAIN FROM TRs 18&20
3	MHC	10/4/2019	REMOVED OBTAIN FROM TR 14
2	MHC	9/23/2019	REVISED TYPICAL AND RW ALONG TSs 9-17
1	JDS	8/14/2018	TRACT 21: INCREASED OBTAIN AREA

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP
STA. 10+00 TO STA. 41+00

SCALE 1"=100' RTE. US 21 DWG. NO. 4F

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1/10/2023

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES	TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
39	THOMPSON TIM & LAURI	0.551 AC	54	GATEWAY FORT MILL LLC	14.610 AC
40	ASH BRYAN N	0.999 AC	54A	YORK COUNTY	2.606 AC
41	BATES MARIE B & ROGER DENNIS MCNUTT	0.610 AC	55	THE EUBANKS FAMILY LTD PARTNERSHIP	54.830 AC
42	MCCRAVEN CAROL	0.397 AC	56	AMERICAS FINEST CAR WASH II LLC	1.764 AC
43	MCCRAVEN CAROL	0.338 AC	57	FAIRWAY TOWNES OWNERS ASSOC INC	9.622 AC
44	EDWARDS RICHARD KENDRICK SR TRUSTEE	18.181 AC	58	STORE MASTER FUNDING V LLS	2.515 AC
45	NEWMAN MICHAEL	0.380 AC	59	CAHILL DAVID	1.973 AC
46	GARCIA SAMUEL JR	0.297 AC	60	GARRISON CHARLES H & BARBARA LEE CANTRELL	42.347 AC
47	MONTERROSO MATILDE & ORLANDO ARIAS	0.288 AC	61	CORBI MICHAEL	0.377 AC
48	WATFORD RUSSELL S & CLARA R	0.269 AC	62	N & W SMITH PROPERTIES FAMILY LTD PARTNERSHIP ETAL	1.859 AC
49	HUBBARD ROY E & LINDA K	0.292 AC	63	NAC OF THE CAROLINAS REAL ESTATE CO LLC	1.027 AC
50	REEL PROPERTY SOLUTIONS LLC	0.338 AC	64	NAC OF THE CAROLINAS REAL ESTATE HOLDING CO LLC	1.474 AC
51	CROSSROADS RETAIL LLC	1.080 AC	65	SHELDON CHRISTOPHER	1.257 AC
52	YORK COUNTY	0.104 AC	66	BWD INC	0.625 AC
53	RP FM221 LLC	8.815 AC	67	SAMMY J. COLEY, AS SUCCESSOR TRUSTEE OF THE GRACE P. COLEY TRUST UA	1.175 AC

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	4G

MATCH LINE STA. 41+00.00 SEE SHEET NO. 4F

MATCH LINE STA. 27+00.00 SEE SHEET 4K

MATCH LINE STA. 73+00.00 SEE SHEET NO. 4H

S-1133 (LAKESHORE DR)

S-1726 (GOLD HILL RD EXIST)

S-1470 (CREST DR)

S-1469 (FERN CREST DR)

US 21

EMBASSY DR

RELOC. US 21 BUSINESS

RELOC. OLD NATION RD

DED. 75' R/W (YORK COUNTY)

DED. 20' UTILITY ESMT. (PB E-153 PG 101) DB

YORK COUNTY WATER AND SEWER EASEMENT (DB 11019 PG 227) DB

DED. 47' YORK COUNTY R/W (TM 7190-00-02-0271) DB

DED. 35' YORK COUNTY R/W (TM 7190-00-02-0271) DB

RELOCATE S-1726 CENTERLINE STA. 15+45.08 TO STA. 32+91.33

RELOCATE S-1133 CENTERLINE STA. 11+66.22 TO STA. 14+46.61

RELOCATE S-1470 CENTERLINE STA. 10+00.00 TO STA. 15+82.31

RELOCATE US 21 BUSINESS CENTERLINE STA. 10+00.00 TO STA. 20+17.53

RELOCATE OLD NATION RD CENTERLINE STA. 10+00.00 TO STA. 14+06.77

CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

QUITCLAIM AREA

NEW RIGHT-OF-WAY

100 0 100 200
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
16	TGM	7/19/2022	ADDED QUITCLAIM AREA - TR 67
15	TGM	7/19/2022	ADDED TRACT NO - TR 54B REVISED R/W - TR 63
14	TGM	4/13/2022	ADDED TCE & REMOVED PERMISSION - TR 55
13	TGM	3/24/2021	REVISED R/W FOR MASH & ADD TR NO - TR 65, 65A
12	TGM	3/16/2021	REVISED R/W & ADD TR NO - TR 40, 40A
11	TGM	8/27/2020	REVISED TR 67 OWNER
10	TGM	8/24/2020	REVISED TR 54A NEW R/W TRANS.
9	TGM	8/11/2020	REVISED TOTAL TRACT AC TR 55
8	MHC	11/12/2019	TRs 63 & 66: REV. R/W OBTAINS AND DRAINAGE
7	MHC	09/20/2019	REVISED RW AROUND TR 66
6	MHC	05/30/2019	REMOVED TCE FROM TR 53
5	MHC	11/01/2018	ADDED TCE AREA TO TR 53 TO COVER EC & SLOPE PERMISSIONS
4	MHC	9/18/2018	ADDED PERMISSIONS TO TRACT 56
3	MHC	07/17/2018	REVISED TRACT 55 R/W OBTAIN
2	JDS	05/16/2018	ADDED TRACT 54A TO TABLE
1	JDS	05/11/2018	TRACT 54: ELIMINATED NEW R/W

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP
STA. 41+00 TO STA. 73+00

SCALE 1"=100' RTE. US 21 DWG. NO. 4G

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1/10/2023

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TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
55	THE EUBANKS FAMILY LTD PARTNERSHIP	54.830 AC
67	SAMMY J. COLEY, AS SUCCESSOR TRUSTEE OF THE GRACE P. COLEY TRUST UA	1.175 AC
68	NORRIS JOY CE	0.679 AC
69	NORRIS JOY CE	0.502 AC
70	CLONTS BENJAMIN C	0.387 AC
71	SONG SONGMIN & SANG HUI	1.231 AC
72	AVANTI PROPERTIES LLC	0.450 AC
73	WHITMIRE JAMES & BETTY S AND DEBORAH MCLAUGHN, JT	0.291 AC
74	PATTERSON WAYNE	4.228 AC
75	COLE MT. FORT MILL SC, LLC	7.054 AC
76	1ST PATRIOTS FEDERAL CREDIT UNION	0.888 AC

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
77	MAM REGENT TOWNE CENTER OUTPARCEL LLC	0.404 AC
78	HILLCREST FOODS INC.	1.112 AC
79	REGENT PARK COMMUNITY OWNERS ASSOC	0.321 AC
80	BAHERI MEHRDAD ALI	1.501 AC
81	H & A ASSOCIATES LLC	0.854 AC
82	H & A ASSOCIATES LLC	2.076 AC
83	CITRO SALVATORE, TRUSTEE	4.294 AC
84	ROSS DRESS FOR LESS INC 4440 ROSEWOOD DR BLDG 4	29.718 AC
85	GTA PROPERTIES LLC	4.845 AC
86	ROSS DRESS FOR LESS INC	9.607 AC

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
87	MCMEHAN TENY LOIS	3.346 AC
88	CV HWY 21 LLC	7.219 AC
89	FORT MILL CROWN PLAZA LLC	6.128 AC
90	RHODES JOSHUA C., ET AL	1.030 AC
91	WAL-MART REAL EST BUSINESS TR	24.618 AC
92	WAL-MART TRS LLC %WAL-MART PROPERTY TX DEPT	1.311 AC
93	WAL-MART TRS LLC	1.546 AC
94	WALKER CORP INC	0.356 AC
95	WALKER CORP INC	0.366 AC
96	WALKER CORP INC	0.328 AC

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	4H

FINAL PLANS

MATCH LINE STA. 73+00.00 SEE SHEET NO. 4G

MATCH LINE STA. 104+00.00 SEE SHEET NO. 4I

US 21

S-679 (HARRISON ROAD)

S-680 (BAXTER LN)

J3-076 (CENTRAL CAROLINA PKWY)

J3-107 (REGENT PKWY)

REGENT DWY

LAKES BLVD

CONTROL OF ACCESS ESMT.

QUITCLAIM AREA

NEW RIGHT-OF-WAY

100 0 100 200

scale feet

RELOCATE US 21 CENTERLINE STA. 94+94.30 TO STA. 101+94.41

RELOCATE J3-076 CENTERLINE STA. 10+00.00 TO STA. 14+09.21

RELOCATE J3-107 CENTERLINE STA. 10+00.00 TO STA. 18+64.05

RELOCATE LAKES BLVD CENTERLINE STA. 10+00.00 TO STA. 14+25.56

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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
9	TGM	9/14/21	REVISED NEW R/W TR 71
8	TGM	9/3/20	REVISED NEW R/W TR 73
7	TGM	8/27/20	REVISED TR 67 OWNER
6	TGM	8/11/2020	REVISED TOTAL TRACT AC TR 55
5	MHC	11/05/2019	REVISED PERM ON TR 75 TO TCE
4	MHC	9/25/2019	REMOVED TURN LANE AND REVISED RW ALONG TRs 74-76
3	MHC	5/20/2019	REVISED OBTAIN ON TRACT 80
2	MHC	5/19/2019	REVISED EX RW & OBTAIN ON TRACTS 55 & 80
1	MHC	9/18/2018	ADDED TEMPORARY CONSTRUCTION EASEMENT TO TRACT 89
11	TGM	7/19/2022	ADDED/REVISED TRACT - TR 73 & 73A ADDED QUITCLAIM AREA - TR 67
10	TGM	4/13/2022	ADDED TCE & REMOVED PERMISSION - TR 55

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP
STA. 70+00 TO STA. 104+00

SCALE 1"=100' RTE. US 21 DWG. NO. 4H

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1/10/2023

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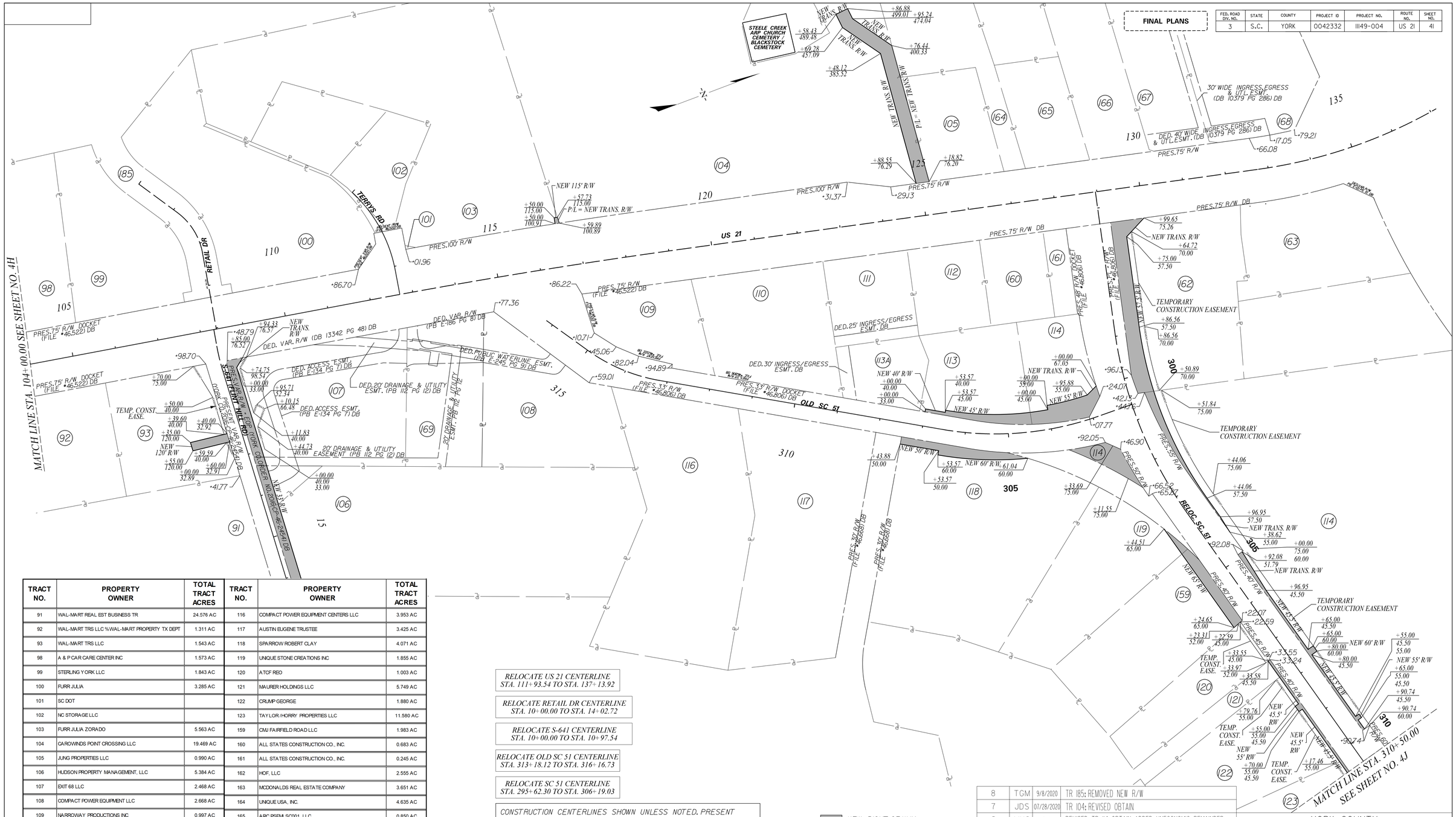
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	41

FINAL PLANS



TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES	TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
91	WAL-MART REAL EST BUSINESS TR	24.576 AC	116	COMPACT POWER EQUIPMENT CENTERS LLC	3.953 AC
92	WAL-MART TRS LLC %WAL-MART PROPERTY TX DEPT	1.311 AC	117	AUSTIN EUGENE TRUSTEE	3.425 AC
93	WAL-MART TRS LLC	1.543 AC	118	SPARROW ROBERT CLAY	4.071 AC
98	A & P CAR CARE CENTER INC	1.573 AC	119	UNIQUE STONE CREATIONS INC	1.855 AC
99	STERLING YORK LLC	1.843 AC	120	ATCF REO	1.003 AC
100	FURR JULIA	3.285 AC	121	MAURER HOLDINGS LLC	5.749 AC
101	SC DOT		122	CRUMP GEORGE	1.880 AC
102	NC STORAGE LLC		123	TAYLOR/HORRY PROPERTIES LLC	11.580 AC
103	FURR JULIA ZORADO	5.563 AC	159	CMJ FAIRFIELD ROAD LLC	1.983 AC
104	CAROWINDS POINT CROSSING LLC	19.469 AC	160	ALL STATES CONSTRUCTION CO., INC.	0.683 AC
105	JUNG PROPERTIES LLC	0.990 AC	161	ALL STATES CONSTRUCTION CO., INC.	0.245 AC
106	HUDSON PROPERTY MANAGEMENT, LLC	5.384 AC	162	HOF, LLC	2.555 AC
107	EXIT 88 LLC	2.468 AC	163	MCDONALDS REAL ESTATE COMPANY	3.651 AC
108	COMPACT POWER EQUIPMENT LLC	2.668 AC	164	UNIQUE USA, INC.	4.635 AC
109	NARROWAY PRODUCTIONS INC	0.997 AC	165	ARC PSFM,SC001, LLC	0.850 AC
110	NARROWAY PRODUCTIONS INC	1.900 AC	166	BRYANT W. CUTTER AND NANCY L. CUTTER	1.503 AC
111	NARROWAY PRODUCTIONS INC	0.901 AC	167	MONEY LINE PROPERTIES, LLC	1.500 AC
112	PAPILLON LLC	0.780 AC	168	C & A PYRO, LLC	3.264 AC
113	ALLSTATE CONSTRUCTION INC	1.126 AC	169	MAR REAL ESTATE, LLC	1.373 AC
113A	NARROWAY PRODUCTIONS INC	0.661 AC	185	ROSS DRESS FOR LESS	107.816 AC
114	194 SPRINGHILL FARMS ROAD, LLC	18.801 AC			

RELOCATE US 21 CENTERLINE STA. 111+93.54 TO STA. 137+13.92

RELOCATE RETAIL DR CENTERLINE STA. 10+00.00 TO STA. 14+02.72

RELOCATE S-641 CENTERLINE STA. 10+00.00 TO STA. 10+97.54

RELOCATE OLD SC 51 CENTERLINE STA. 313+18.12 TO STA. 316+16.73

RELOCATE SC 51 CENTERLINE STA. 295+62.30 TO STA. 306+19.03

CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

NEW RIGHT-OF-WAY

100 0 100 200

scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
8	TGM	9/8/2020	TR 185: REMOVED NEW R/W
7	JDS	07/28/2020	TR 104: REVISED OBTAIN
6	MHC	10/3/2019	REVISED TR 114 OBTAIN, ADDED UNECONOMIC REMAINDER
5	MHC	08/27/2019	ADDED TR 113A, SPLIT FROM TR 113
4	MHC	08/26/2019	CHANGED PROP. OWNER FOR TRs 109 & 111
3	MHC	08/01/2019	ADDED TCE TO TR 107
2	MHC	07/08/2019	ADDED TCE TO TR 93
1	JDS	11/30/2018	TRACTS 93, 106, 107: REVISED EXIST. & NEW R/W

PREPARED BY MHC CHK'D BY CTC REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP
US 21: STA. 104+00 TO SC 51: STA. 310+00

SCALE 1"=100' RTE. US 21 DWG. NO. 41

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11/07/2023

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	4J

FINAL PLANS

RELOCATE S-48 CENTERLINE STA. 23+27.20 TO STA. 30+96.40

RELOCATE S-641 CENTERLINE STA. 15+79.39 TO STA. 21+69.05

-N-

MATCH LINE STA. 310+00.00 SEE SHEET NO. 4I

NORTH CAROLINA
SOUTH CAROLINA

S-48 (SPRINGHILL FARM RD)

S-48 ISPRINGHILL FARM RD CUL-DE-SAC

ANDREW L TUCKER RD

S-641 (FLINT HILL RD)

SC 51

PRES.33' R/W (FILE 46,522) DB

PRES.33' R/W (FILE 46,520) DB

PRES.33' R/W DOCKET (FILE 46,421) DB

PRES.33' R/W (FILE 46,806) DB

PRES.40' R/W

PRES.43' R/W

PRES.50' R/W

PRES.35' R/W

PRES.TRANS. R/W

PRES.75' R/W

NEW 45.5' R/W

NEW 57.5' R/W

NEW 50' R/W

NEW 55' R/W

NEW TRANS. R/W

NEW PERM DRAINAGE EASE

TEMP. CONST. EASE.

TEMP. CONST EASE PRES. 33' R/W (FILE 46,421) DB NEW TRANS. R/W

TEMPORARY CONSTRUCTION EASEMENT

20' FORCE MAIN ESMT.

6" WATERLINE ESMT. DB

R. SANITARY SEWER ESMT.

68' DUKE POWER RIGHT OF WAY DB

QUARRY BLEACHERY RD PUBLIC R/W DB.

CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

NEW RIGHT-OF-WAY

scale 100 0 100 200 feet

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES	TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES	TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
114	194 SPRINGHILL FARMS ROAD, LLC	16.370 AC	134	VICK WILLIAM W	2.178 AC	148	WAREHOUSE ONE, LLC & FMK MANAGEMENT, LLC	1.102 AC
115	TAYLORY ORK PROPERTIES LLC	2.041 AC	135	SUTTON THOMAS D SR	1.095 AC	149	DFJ ENTERPRISES INC	1.411 AC
123	TAYLOR /HORRY PROPERTIES LLC	3.681 AC	136	YORK ELECTRIC COOPERATIVE INC	0.967 AC	150	WORLDWIDE VENTURES INC	3.848 AC
124	YORK COUNTY	0.105 AC	137	ENGLISH TRAILS HOMEOWNER ASSOC INC	9.861 AC	151	TEAM PROPERTIES LP	2.452 AC
125	5551 HWY 51 PROPERTY MGMT LLC % JONATHAN W ROSS	1.704 AC	138	CIRCLE B PROPERTIES	1.533 AC	152	BROWN ENTERPRISES	2.195 AC
126	RESOURCE PROPERTIES VII ASSOC	2.358 AC	139	SIMON & WATSON ENTERPRISES LLC	1.420 AC	153	SPRINGHILL FLEX LLC % THE TOMLIN GROUP LLC	1.602 AC
127	ZOLOTARY OV GENNADY & EMMA KARAPETIAN	2.158 AC	140	SOUTH CAROLINA BRISTOL EAST RETURN LLC	3.089 AC	154	RESOURCE PROPERTIES V ASSOC	8.552 AC
128	LATHAM CARL III ETAL	0.021 AC	142	OMANRA INTERNATIONAL INC	1.888 AC	155	RESOURCE PROPERTIES IV ASSOCIA	5.532 AC
129	MONROE PROPERTIES	0.170 AC	143	OMANRA INTERNATIONAL INC	1.107 AC	156	I N A BEARING COMPANY INC	59.696 AC
130	VICK WILLIAM W	0.937 AC	144	MILLER CHARLES STEPHEN	3.959 AC	157	CHARLES STEPHEN MILLER	
131	VICK WILLIAM W	0.841 AC	145	MILLER CHARLES STEPHEN ET AL	10.949 AC	158	THE JAMES ROSS MILLER, JR. FAMILY LIMITED PARTNERSHIP	
132	VICK WILLIAM W	0.483 AC	146	MILLER JAMES ROSS & Johnie M	11.520 AC	115A	TAYLORY ORK PROPERTIES LLC	1.616 AC
133	QUALITY POOLS GROUP, INC.	2.022 AC	147	MONROE PROPERTY MANAGEMENT LLC	1.688 AC	123A	TAYLOR /HORRY PROPERTIES LLC	7.885 AC

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4	TGM	12/22/21	ADDED PERM DRAIANGE EASMT & TR NO.- TR 133 & 133A
3	TGM	11/17/20	ADDED NEW TRANS R/W BETWEEN PRES R/W - TRACT 154
2	TGM	10/30/20	SUBDIVIDED 115 & 123, ADDED 115A & 123A
1	MHC	08/23/19	REMOVED TRACT 141, COMBINED WITH TRACT 140

PREPARED BY MHC CHK'D BY CTC REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP

SCALE 1"=100' RTE. US 21 DWG. NO. 4J

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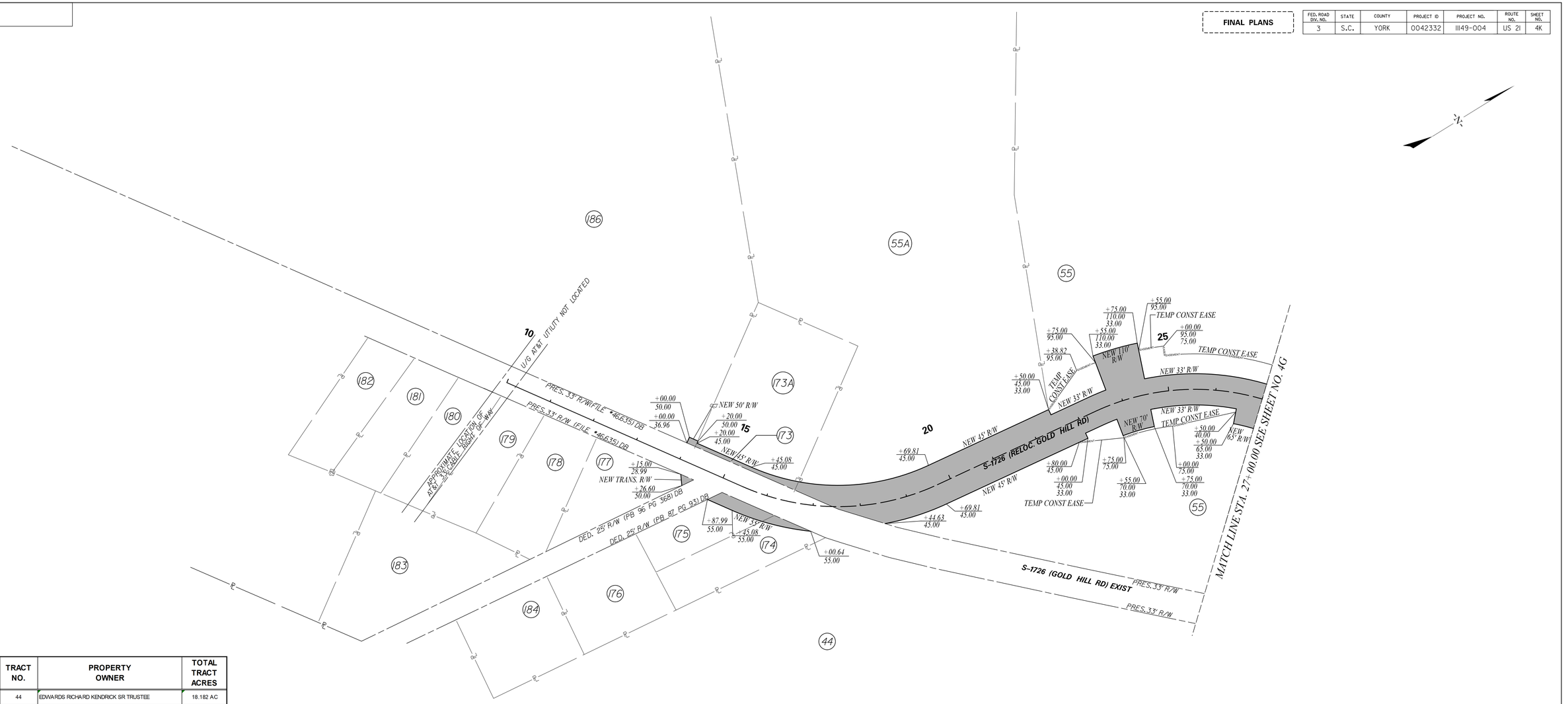
1/10/2023

PROLINE.DGN

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	4K



TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
44	EDWARDS RICHARD KENDRICK SR TRUSTEE	18.182 AC
55	THE EUBANKS FAMILY LTD PARTNERSHIP	54.830 AC
173	EUBANKS THOMAS HALL & DONNA D.	0.050 AC
174	HALL RAYMOND C. & PEGGY ROBINSON	0.642 AC
175	HALL RAYMOND C. & PEGGY ROBINSON	0.475 AC
176	ROBERT E EDWARDS	0.878 AC
177	CORVAIA FRANK & KATHLEEN	0.669 AC
178	CORVAIA FRANK & KATHLEEN	0.890 AC
179	WALTER L & JOYCE H CORDELL	0.726 AC
180	BOBBY J HALL	0.643 AC
181	BOBBY HALL	0.708 AC
182	NICHOLAS W SCHACHNER	0.693 AC
183	DEWEY E HOWEY & ELIZABETH ANN POOLE HOWEY, TRUSTEES OF THE HOWEY LIVING TRUST	1.595 AC
184	DEWEY E HOWEY	0.884 AC
186	FORT MILL SCHOOL DISTRICT NO.4	40.362 AC
55A	FORT MILL SCHOOL DISTRICT NO.4	18.248 AC
173A	FORT MILL SCHOOL DISTRICT NO.4	1.729 AC

RELOCATE S-1726 CENTERLINE STA. 15+45.08 TO STA. 32+91.33

CONSTRUCTION CENTERLINES SHOWN UNLESS NOTED. PRESENT RIGHT-OF-WAY IS MEASURED FROM THE EXISTING CENTERLINE. FOR EXISTING CENTERLINE INFORMATION SEE REFERENCE DATA SHEETS. NEW RIGHT-OF-WAY IS MEASURED FROM THE CONSTRUCTION CENTERLINE.

ACREAGE SHOWN IS PRESENT TOTAL TRACT ACRES FROM PROPERTY DATA RESEARCH AND SURVEYS BY CH ENGINEERING. PRESENT RIGHT-OF-WAY VERIFICATION WAS CONDUCTED BY CH ENGINEERING.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

NEW RIGHT-OF-WAY

100 0 100 200
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4	TGM	4/13/2022	ADDED TCE & REMOVED PERMISSION - TR 55
3	TGM	8/11/2020	ADDED TR 173A, REVISED OWNER TR 55A REVISED TOTAL TRACT AC TR 55, 173
2	JDS	02/06/20	ADDED TRACTS 55A & 186 PER PLAT
1	MHC	07/17/18	REVISED TRACT 55 RW OBTAIN

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
PROPERTY STRIP MAP

SCALE 1"=100' RTE. US 21 DWG. NO. 4K

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SCDOT
South Carolina Department of Transportation

GENERAL CONSTRUCTION NOTES

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	5

INCLUSIONS ITEMS

ITEM NO.	PAY ITEM	QUANTITY	UNIT	USE DESCRIPTION
1031000	MOBILIZATION	NEC.	LS	PER CONTRACT DOCUMENTS
1031100	MOBILIZATION - SUBCONTRACTOR	NEC.	LS	PER CONTRACT DOCUMENTS
1032010	BONDS AND INSURANCE	NEC.	LS	PER CONTRACT DOCUMENTS
1050800	CONSTRUCTION STAKES, LINES & GRADES	1	EA	PER CONTRACT DOCUMENTS
1052001	UTILITY STAKING	NEC.	LS	PER CONTRACT DOCUMENTS
1080300	CPM PROGRESS SCHEDULE	NEC.	LS	PER CONTRACT DOCUMENTS
2011001	CLEARING & GRUBBING WITHIN RIGHT OF WAY	2	ACRE	PER CONTRACT DOCUMENTS
2031000	UNCLASSIFIED EXCAVATION	145	CY	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
2031000	UNCLASSIFIED EXCAVATION	4,650	CY	WHERE DIRECTED BY THE ENGINEER PER GEOTECH DETAIL SHEETS
2031000	UNCLASSIFIED EXCAVATION	635	CY	WHERE DIRECTED BY THE ENGINEER
2033100	BORROW PIT SET-UP	NEC.	LS	WHERE DIRECTED BY THE ENGINEER
2036020	GEOTEXTILE, SEPARATION	7,000	SY	WHERE DIRECTED BY THE ENGINEER PER GEOTECH DETAIL SHEETS
2037030	GEOGRID STABILIZATION	200	SY	WHERE DIRECTED BY THE ENGINEER PER GEOTECH DETAIL SHEETS
2052010	STONE BRIDGE LIFT MATERIAL	6,500	TON	WHERE DIRECTED BY THE ENGINEER PER GEOTECH DETAIL SHEETS
2103000	FLOWABLE FILL	3,350	CY	WHERE DIRECTED BY THE ENGINEER
3069900	MAINTENANCE STONE	2,000	TON	FOR DRIVEWAYS
3069900	MAINTENANCE STONE	1,165	TON	FOR MILLING AREAS WHERE DIRECTED BY THE ENGINEER
3069900	MAINTENANCE STONE	2,380	TON	FOR EXISTING PVMT REPLACEMENT WHERE DIRECTED BY THE ENGR.
4011004	LIQUID ASPHALT BINDER PG64-22	90	TON	FOR DRIVEWAYS
4011004	LIQUID ASPHALT BINDER PG64-22	1,486	TON	FOR BUILDUP OF EXISTING PAVEMENT
4012120	FULL DEPTH ASPH. PAV. PATCHING 12"UNIF	4,660	SY	FOR MILLING AREAS WHERE DIRECTED BY THE ENGINEER
4012150	FULL DEPTH ASPH. PAV. PATCHING 15"UNIF	9,490	SY	FOR EXISTING PVMT REPLACEMENT WHERE DIRECTED BY THE ENGR.
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	7,000	SY	WHERE DIRECTED BY THE ENGINEER
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	12,490	TON	FOR BUILDUP OF EXISTING PAVEMENT
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	12,490	TON	FOR BUILDUP OF EXISTING PAVEMENT
4037210	DRIVEWAY PAVING-SURFACE TYPE B	1,200	TON	FOR DRIVEWAYS
4037220	DRIVEWAY PAVING-SURFACE TYPE C	420	TON	FOR DRIVEWAYS
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	1,200	EA	FOR TRAFFIC CONTROL
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	1,700	EA	FOR TRAFFIC CONTROL
6250005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	10,335	LF	FOR TRAFFIC CONTROL
6250010	4" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	152,520	LF	FOR TRAFFIC CONTROL
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	2,940	LF	FOR TRAFFIC CONTROL
6250110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	85,440	LF	FOR TRAFFIC CONTROL
6271040	WHITE COMBINATION ARROWS(STR&RT.OR STR&LT)THERMO-125MIL	2	EA	WHERE DIRECTED BY THE ENGINEER
7141123	18" RC PIPE CUL.-CLASS IV	27	LF	WHERE DIRECTED BY THE ENGINEER
7141133	18" RC PIPE CUL.-CLASS V	46	LF	WHERE DIRECTED BY THE ENGINEER
7141124	24" RC PIPE CUL.-CLASS IV	8	LF	WHERE DIRECTED BY THE ENGINEER
7141125	30" RC PIPE CUL.-CLASS IV	7	LF	WHERE DIRECTED BY THE ENGINEER
7141126	36" RC PIPE CUL.-CLASS IV	11	LF	WHERE DIRECTED BY THE ENGINEER
7141889	36" REINFORCED CONCRETE PIPE (CLASS V SPECIAL)TRENCHLESS	6	LF	WHERE DIRECTED BY THE ENGINEER
7143618	18" SMOOTH WALL PIPE	724	LF	WHERE DIRECTED BY THE ENGINEER
7143624	24" SMOOTH WALL PIPE	438	LF	WHERE DIRECTED BY THE ENGINEER
7143630	30" SMOOTH WALL PIPE	94	LF	WHERE DIRECTED BY THE ENGINEER
7143636	36" SMOOTH WALL PIPE	19	LF	WHERE DIRECTED BY THE ENGINEER
7143642	42" SMOOTH WALL PIPE	23	LF	WHERE DIRECTED BY THE ENGINEER
7149999	CLEANING EXISTING PIPE	1,000	LF	WHERE DIRECTED BY THE ENGINEER
8041010	RIP-RAP (CLASS A)	1,057	TON	SED. TUBE SUBSTIT. WHERE DIRECTED BY THE ENGR. (DITCH CHECK)
8041020	RIP-RAP (CLASS B)	324	TON	FOR DRIVEWAYS
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	406	SY	FOR DRIVEWAYS
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	856	SY	SED. TUBE SUBSTIT. WHERE DIRECTED BY THE ENGR. (DITCH CHECK)
8068301	TEMPORARY BARRIER FENCE	1,935	LF	FOR WETLAND PROTECTION WHERE DIRECTED BY THE ENGINEER
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	310	EA	PER SCDOT STANDARDS
8091050	RIGHT OF WAY PLAT	NEC.	LS	PER SCDOT STANDARDS

PROJECT CONTACTS		
	NAME	TELEPHONE
PROGRAM / PROJECT MANAGER:		
DESIGN GROUP COORDINATION:		

SCDOT GENERAL CONSTRUCTION NOTES:

THE DEPUTY SECERETARY FOR ENGINEERING MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF PROJECT OR CHANGES IN ALIGNMENT. THE DISTRICT ENGINEERING ADMINISTRATOR IS PERMITTED UNDER THE DIRECTION OF THE DEPUTY SECRETARY FOR ENGINEERING TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT. FORWARD INFORMATION ON ANY PROPOSED CHANGES IN ALIGNMENT TO THE COLUMBIA OFFICE AS SOON AS POSSIBLE.

SEE INDIVIDUAL CURVES ON REFERENCE DATA SHEET FOR SUPERELEVATION RATE AND DESIGN SPEED, AS APPLICABLE.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS, BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

PIPE LENGTHS THAT ARE SHOWN ON THE PLANS ARE ACTUAL LENGTHS CALCULATED ALONG THE PIPE SLOPE FROM CENTER OF BOX TO CENTER OF BOX. FIELD ADJUSTMENTS OF THE ACTUAL PIPE LENGTH MAY BE NECESSARY.

ALL MUCKING OR UNDERCUT SHALL BE PAID FOR AS UNCLASSIFIED EXCAVATION UNDER PAY ITEM 2031000. ANY DEWATERING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION, AND SHALL NOT HAVE A SEPARATE PAY ITEM.

EROSION CONTROL ITEMS

ITEM NO.	PAY ITEM	QUANTITY	UNIT	USE DESCRIPTION
8100100	PERMANENT COVER	36.409	ACRE	FOR EROSION CONTROL
8100200	TEMPORARY COVER	18.205	ACRE	FOR EROSION CONTROL
8104005	FERTILIZER (NITROGEN)	3,641	LB	FOR EROSION CONTROL
8104010	FERTILIZER (PHOSPHORIC ACID)	3,641	LB	FOR EROSION CONTROL
8104015	FERTILIZER (POTASH)	3,641	LB	FOR EROSION CONTROL
8105005	AGRICULTURAL GRANULAR LIME	72,818	LB	FOR EROSION CONTROL
8109050	SELECTIVE WATERING	271,500	GAL	FOR EROSION CONTROL
8109901	MOWING	109.227	ACRE	FOR EROSION CONTROL
8151201	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 1	49	ACRE	FOR EROSION CONTROL
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	42.023	ACRE	FOR EROSION CONTROL
8152007	SEDIMENT TUBES FOR DITCH CHECKS	6,660	LF	FOR EROSION CONTROL
8153000	SILT FENCE	34,734	LF	FOR EROSION CONTROL
8153090	REPLACE/REPAIR SILT FENCE	3,474	LF	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8154010	CLEANING SILT BASINS	2,326	CY	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8154010	CLEANING SILT BASINS	2,230	CY	SED. TUBE SUBSTIT. WHERE DIRECTED BY THE ENGR. (DITCH CHECK)
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	8,684	LF	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8156205	INLET STRUCTURE FILTER - TYPE D1	22	EA	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8156215	INLET STRUCTURE FILTER - TYPE D2	43	EA	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8156219	INLET STRUCTURE FILTER - TYPE A	504	LF	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	74	TON	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	250	TON	SED. TUBE SUBSTIT. WHERE DIRECTED BY THE ENGR. (DITCH CHECK)
8156490	STABILIZED CONSTRUCTION ENTRANCE	1,650	SY	FOR EROSION CONTROL

SOUTH CAROLINA — STV INCORPORATED No. C0338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 32542 — REGISTERED PROFESSIONAL ENGINEER — JAMES G. MASTALONE

DocuSigned by: CHRISTOPHER FADE — 5/27/2025

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
GENERAL CONSTRUCTION NOTES

SCALE NTS RTE. US 21 DWG. NO. 5

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RELOC. CONSTRUCTION CENTERLINES

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5A

RELOC. US 21 (NORTH HIGHWAY 21 BYPASS) CONSTRUCTION CENTERLINE

Beginning chain US21 description

Point 15001 N 1,172,301.8502 E 2,018,539.2384 Sta 10+00.00

Course from 15001 to PC US21-1-REV N 6° 53' 17.45" E Dist 8,494.3034

Curve Data

Curve US21-1-REV
P.I. Station = 98+44.44 N 1,181,082.4499 E 2,019,599.9701
Delta = 3° 00' 17.06" (RT)
Degree = 0° 25' 45.05"
Tangent = 350.1346
Length = 700.1086
Radius = 13,350.0000
D.S. = 45 MPH
eMAX = 4%
e = NC
P.C. - LG% = 0.54%
P.T. - LG% = 0.54%
External = 4.5908
Long Chord = 700.0284
Mid. Ord. = 4.5892
P.C. Station 94+94.3034 N 1,180,734.8425 E 2,019,557.9777
P.T. Station 101+94.4120 N 1,181,427.3781 E 2,019,660.1258
C.C. N 1,179,133.7496 E 2,032,811.6188
Back = N 6° 53' 17.45" E
Ahead = N 9° 53' 34.52" E
Chord Bear = N 8° 23' 25.98" E

Course from PT US21-1-REV to PC US21-2-REV N 9° 53' 34.52" E Dist 999.1237

Curve Data

Curve US21-2-REV
P.I. Station = 115+56.80 N 1,182,769.5047 E 2,019,894.1935
Delta = 2° 49' 17.66" (RT)
Degree = 0° 23' 18.41"
Tangent = 363.2607
Length = 726.3746
Radius = 14,750.0000
D.S. = 45 MPH
eMAX = 4%
e = NC
P.C. - LG% = 0.54%
P.T. - LG% = 0.54%
External = 4.4725
Long Chord = 726.3012
Mid. Ord. = 4.4711
P.C. Station 111+93.5358 N 1,182,411.6454 E 2,019,831.7826
P.T. Station 119+19.9103 N 1,183,123.8578 E 2,019,974.1446
C.C. N 1,179,877.4865 E 2,034,362.4584
Back = N 9° 53' 34.52" E
Ahead = N 12° 42' 52.18" E
Chord Bear = N 11° 18' 13.35" E

Course from PT US21-2-REV to PC US21-3 N 12° 42' 52.18" E Dist 1,357.6449

Curve Data

Curve US21-3
P.I. Station = 134+98.41 N 1,184,663.6551 E 2,020,321.5622
Delta = 21° 49' 06.38" (LT)
Degree = 5° 00' 00.06"
Tangent = 220.8591
Length = 436.3674
Radius = 1,145.9120
D.S. = 45 MPH
eMAX = 4%
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 21.0897
Long Chord = 433.7356
Mid. Ord. = 20.7086
P.C. Station 132+77.5552 N 1,184,448.2117 E 2,020,272.9527
P.T. Station 137+13.9226 N 1,184,881.7320 E 2,020,286.6166
C.C. N 1,184,700.4189 E 2,019,155.1397
Back = N 12° 42' 52.18" E
Ahead = N 9° 06' 14.20" W
Chord Bear = N 1° 48' 18.99" E
Point 15005 N 1,184,881.7320 E 2,020,286.6166 Sta 137+13.9226

Ending chain US21 description

RELOC. S-1467 (AMELIA DRIVE) CONSTRUCTION CENTERLINE

Beginning chain AMELIA description

Point 15095 N 1,174,877.9772 E 2,018,850.4449 Sta 10+00.0000
Course from 15095 to PC AMELIA-1 S 82° 52' 06.71" E Dist 157.5508

Curve Data

Curve AMELIA-1
P.I. Station = 12+72.4928 N 1,174,844.1482 E 2,019,120.8296
Delta = 53° 06' 25.00" (LT)
Degree = 24° 54' 40.35"
Tangent = 114.9419
Length = 213.1849
Radius = 230.0000
D.S. = 30 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 27.1218
Long Chord = 205.6351
Mid. Ord. = 24.2610
P.C. Station 11+57.5508 N 1,174,858.4178 E 2,019,006.7769
P.T. Station 13+70.7358 N 1,174,926.7963 E 2,019,200.7104
C.C. N 1,175,086.6385 E 2,019,035.3306
Back = S 82° 52' 06.71" E
Ahead = N 44° 01' 28.29" E
Chord Bear = N 70° 34' 40.79" E

Course from PT AMELIA-1 to 15096 N 44° 01' 28.29" E Dist 50.1789
Point 15096 N 1,174,962.8771 E 2,019,235.5830 Sta 14+20.9147

Ending chain AMELIA description

RELOC. S-1134 (LAKE VIEW ROAD) CONSTRUCTION CENTERLINE

Beginning chain LAKEVIEW description

Point 15030 N 1,174,486.0830 E 2,018,290.0330 Sta 10+00.00

Course from 15030 to PC LAKEVIEW-1 N 82° 08' 40.13" E Dist 168.2901

Curve Data

Curve LAKEVIEW-1
P.I. Station = 12+84.88 N 1,174,525.0197 E 2,018,572.2439
Delta = 13° 18' 02.36" (RT)
Degree = 5° 43' 46.48"
Tangent = 116.5942
Length = 232.1402
Radius = 1,000.0000
D.S. = 30 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 6.7742
Long Chord = 231.6193
Mid. Ord. = 6.7286
P.C. Station 11+68.29 N 1,174,509.0841 E 2,018,456.7439
P.T. Station 14+00.43 N 1,174,513.9558 E 2,018,688.3120
C.C. N 1,173,518.4683 E 2,018,593.4194
Back = N 82° 08' 40.13" E
Ahead = S 84° 33' 17.51" E
Chord Bear = N 88° 47' 41.31" E

Course from PT LAKEVIEW-1 to 15031 S 84° 33' 17.51" E Dist 117.3420
Point 15031 N 1,174,502.8209 E 2,018,805.1245 Sta 15+17.77

Ending chain LAKEVIEW description

RELOC. S-1469 (FERN FOREST COURT) CONSTRUCTION CENTERLINE

Beginning chain FERNFOREST description

Point 15085 N 1,175,221.4424 E 2,018,891.9369 Sta 10+00.0000
Course from 15085 to PC FERNFOREST-1 S 83° 10' 15.21" E Dist 36.1773

Curve Data

Curve FERNFOREST-1
P.I. Station = 11+34.14 N 1,175,205.4923 E 2,019,025.1226
Delta = 58° 28' 40.00" (LT)
Degree = 32° 44' 25.60"
Tangent = 97.9601
Length = 178.6102
Radius = 175.0000
D.S. = N/A
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 25.5522
Long Chord = 170.9582
Mid. Ord. = 22.2966
P.C. Station 10+36.1773 N 1,175,217.1406 E 2,018,927.8575
P.T. Station 12+14.7875 N 1,175,282.3147 E 2,019,085.9051
C.C. N 1,175,390.8990 E 2,018,948.6665
Back = S 83° 10' 15.21" E
Ahead = N 38° 21' 04.79" E
Chord Bear = N 67° 35' 24.79" E

Course from PT FERNFOREST-1 to 15086 N 38° 21' 04.79" E Dist 315.5969
Point 15086 N 1,175,529.8124 E 2,019,281.7273 Sta 15+30.3844

Ending chain FERNFOREST description

RELOC. S-1470 (FOREST DRIVE) CONSTRUCTION CENTERLINE

Beginning chain EX-FOREST description

Point 140 N 1,175,747.5358 E 2,018,955.4911 Sta 10+00.00

Course from 140 to 141 N 61° 24' 53.21" E Dist 582.3120

Point 141 N 1,176,026.1519 E 2,019,466.8230 Sta 15+82.31

Ending chain EX-FOREST description

RELOC. S-1133 (LAKE SHORE DRIVE) CONSTRUCTION CENTERLINE

Beginning chain LAKESHORE description

Point 15075 N 1,175,252.8010 E 2,018,652.8594 Sta 10+00.0000
Course from 15075 to PC LAKESHORE-1 N 32° 03' 50.04" E Dist 166.2171

Curve Data

Curve LAKESHORE-1
P.I. Station = 12+63.28 N 1,175,475.9229 E 2,018,792.6276
Delta = 6° 30' 39.74" (RT)
Degree = 3° 21' 27.01"
Tangent = 97.0670
Length = 193.9251
Radius = 1,706.5000
D.S. = 30 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 2.7584
Long Chord = 193.8208
Mid. Ord. = 2.7539
P.C. Station 11+66.2171 N 1,175,393.6628 E 2,018,741.0982
P.T. Station 13+60.1422 N 1,175,551.8092 E 2,018,853.1526
C.C. N 1,174,487.7421 E 2,020,187.2828
Back = N 32° 03' 50.04" E
Ahead = N 38° 34' 29.78" E
Chord Bear = N 35° 19' 09.91" E

Curve Data

Curve LAKESHORE-2
P.I. Station = 13+88.04 N 1,175,573.6158 E 2,018,870.5450
Delta = 58° 18' 47.67" (RT)
Degree = 114° 35' 49.31"
Tangent = 27.8931
Length = 50.8855
Radius = 49.9976
D.S. = N/A
eMAX = N/A
e = N/A
P.C. - LG% = N/A
P.T. - LG% = N/A
External = 7.2543
Long Chord = 48.7175
Mid. Ord. = 6.3351
P.C. Station 13+60.1422 N 1,175,551.8092 E 2,018,853.1526
P.T. Station 14+11.0277 N 1,175,570.2706 E 2,018,898.2367
C.C. N 1,175,520.6338 E 2,018,892.2404
Back = N 38° 34' 29.78" E
Ahead = S 83° 06' 42.55" E
Chord Bear = N 67° 43' 53.62" E

Course from PT LAKESHORE-2 to 15076 S 83° 06' 42.55" E Dist 35.5813
Point 15076 N 1,175,566.0032 E 2,018,933.5612 Sta 14+46.6090

Ending chain LAKESHORE description

RELOC. LAKES BOULEVARD CONSTRUCTION CENTERLINE

Beginning chain LAKESBLVD description

Point 15037 N 1,180,971.3290 E 2,019,586.6756 Sta 10+00.0000
Course from 15037 to 15038 S 76° 40' 34.89" E Dist 425.5601
Point 15038 N 1,180,873.2581 E 2,020,000.7813 Sta 14+25.5601

Ending chain LAKESBLVD description

RELOC. S-1726 (GOLD HILL ROAD) CONSTRUCTION CENTERLINE

Beginning chain GOLDH-REALIGN description

Point GH10 N 1,176,123.9738 E 2,017,745.6629 Sta 10+00.0000
Course from GH10 to PC GOLDHILL-REAL-1 N 55° 33' 31.68" E Dist 545.0790

Curve Data

Curve GOLDHILL-REAL-1
P.I. Station = 17+71.21 N 1,176,560.1388 E 2,018,381.6842
Delta = 48° 40' 14.23" (LT)
Degree = 11° 27' 32.96"
Tangent = 226.1297
Length = 424.7313
Radius = 500.0000
D.S. = 35 MPH
eMAX = 6%
e = 5.70%
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 48.7574
Long Chord = 412.0760
Mid. Ord. = 44.4253
P.C. Station 15+45.0790 N 1,176,432.2488 E 2,018,195.1934
P.T. Station 19+69.8103 N 1,176,784.6363 E 2,018,408.8044
C.C. N 1,176,844.6023 E 2,017,912.4134
Back = N 55° 33' 31.68" E
Ahead = N 6° 53' 17.45" E
Chord Bear = N 31° 13' 24.57" E

Course from PT GOLDHILL-REAL-1 to PC GOLDHILL-REAL-2 N 6° 53' 17.45" E Dist 369.0062

Curve Data

Curve GOLDHILL-REAL-2
P.I. Station = 28+38.82 N 1,177,647.3701 E 2,018,513.0261
Delta = 90° 00' 00.00" (RT)
Degree = 11° 27' 32.96"
Tangent = 500.0000
Length = 785.3982
Radius = 500.0000
D.S. = 35 MPH
eMAX = 6%
e = 5.70%
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 207.1068
Long Chord = 707.1068
Mid. Ord. = 146.4466
P.C. Station 23+38.8165 N 1,177,150.9790 E 2,018,453.0601
P.T. Station 31+24.2147 N 1,177,587.4041 E 2,019,009.4172
C.C. N 1,177,091.0130 E 2,018,949.4511
Back = N 6° 53' 17.45" E
Ahead = S 83° 06' 42.55" E
Chord Bear = N 51° 53' 17.45" E

Course from PT GOLDHILL-REAL-2 to GH11 S 83° 06' 42.55" E Dist 167.1223
Point GH11 N 1,177,567.3607 E 2,019,175.3332 Sta 32+91.3370

Ending chain GOLDH-REALIGN description

RELOC. J3-076 (CENTRAL CAROLINAS PARKWAY) CONSTRUCTION CENTERLINE

Beginning chain CENTRALCAROLINA description

Point 15045 N 1,179,569.6279 E 2,019,005.0365 Sta 10+00.0000
Course from 15045 to 15046 S 83° 20' 39.65" E Dist 409.2069
Point 15046 N 1,179,522.2000 E 2,019,411.4856 Sta 14+09.2069

Ending chain CENTRALCAROLINA description

US 21 RELOCATE CENTERLINE STA. 94+94.30 TO STA. 101+94.41 STA. 111+93.54 TO STA. 137+13.92	S-1470 RELOCATE CENTERLINE STA. 10+00.00 TO STA. 15+82.31
S-1467 RELOCATE CENTERLINE STA. 10+00.00 TO STA. 14+20.91	S-1133 RELOCATE CENTERLINE STA. 11+66.22 TO STA. 14+46.61
S-1134 RELOCATE CENTERLINE STA. 10+00.00 TO STA. 15+17.77	LAKES BLVD. RELOCATE CENTERLINE STA. 10+00.00 TO STA. 14+25.56
S-1469 RELOCATE CENTERLINE STA. 10+36.18 TO STA. 12+14.79	S-1726 RELOCATE CENTERLINE STA. 15+45.08 TO STA. 32+91.33
	J3-076 RELOCATE CENTERLINE STA. 10+00.00 TO STA. 14+09.21

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN 4/11/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO. 5A

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RELOC. CONSTRUCTION CENTERLINES

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	5B

RELOC. US 21 BUSINESS (OLD NATION ROAD) CONSTRUCTION CENTERLINE

Beginning chain US21B description

Point RAMPA12 N 1,177,574.8066 E 2,019,176.2327 Sta 10+00.0000

Course from RAMPA12 to PC US21B_3 S 83° 06' 42.55" E Dist 456.0302

Curve Data

Curve US21B_3
P.I. Station 17+55.0363 N 1,177,484.2535 E 2,019,925.8193
Delta = 48° 44' 41.36" (RT)
Degree = 8° 40' 52.24"
Tangent = 299.0062
Length = 561.5000
Radius = 660.0000
D.S. = 35 MPH
eMAX = 4%
e = 3.68%
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 64.5721
Long Chord = 544.7190
Mid. Ord. = 58.8176
P.C. Station 14+56.0302 N 1,177,520.1140 E 2,019,628.9713
P.T. Station 20+17.5302 N 1,177,237.4422 E 2,020,094.6057
C.C. N 1,176,864.8778 E 2,019,549.8161
Back = S 83° 06' 42.55" E
Ahead = S 34° 22' 01.19" E
Chord Bear = S 58° 44' 21.87" E

Course from PT US21B_3 to RAMPA13 S 34° 22' 01.19" E Dist 500.4660

Point RAMPA13 N 1,176,824.3382 E 2,020,377.1146 Sta 25+17.9962

Ending chain US21B description

RELOC. OLD NATION ROAD CONSTRUCTION CENTERLINE

Beginning chain OLDNACL description

Point OLDNACL1 N 1,177,512.0962 E 2,019,679.0769 Sta 10+00.0000

Course from OLDNACL1 to PC OLDNACL_3 N 10° 40' 53.17" E Dist 107.9930

Curve Data

Curve OLDNACL_3
P.I. Station 12+65.58 N 1,177,773.0768 E 2,019,728.3021
Delta = 45° 02' 54.35" (LT)
Degree = 15° 04' 40.21"
Tangent = 157.5893
Length = 298.7725
Radius = 380.0000
D.S. = NA
eMAX = 4%
e = 3.48%
P.C. - LG% = 0.70%
P.T. - LG% = 0.70%
External = 31.3811
Long Chord = 291.1361
Mid. Ord. = 28.9873
P.C. Station 11+07.9930 N 1,177,618.2180 E 2,019,699.0932
P.T. Station 14+06.7655 N 1,177,903.1571 E 2,019,639.3443
C.C. N 1,177,688.6503 E 2,019,325.6775
Back = N 10° 40' 53.17" E
Ahead = N 34° 22' 01.19" W
Chord Bear = N 11° 50' 34.01" W

Course from PT OLDNACL_3 to PC OLDNACL_6 N 34° 22' 01.19" W Dist 63.2832

Curve Data

Curve OLDNACL_6
P.I. Station 17+48.1877 N 1,178,184.9802 E 2,019,446.6143
Delta = 20° 39' 57.82" (RT)
Degree = 3° 45' 21.13"
Tangent = 278.1389
Length = 550.2339
Radius = 1,525.5000
D.S. = 35 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 25.1487
Long Chord = 547.2560
Mid. Ord. = 24.7409
P.C. Station 14+70.0488 N 1,177,955.3936 E 2,019,603.6214
P.T. Station 20+20.2826 N 1,178,455.2048 E 2,019,380.7360
C.C. N 1,178,816.5255 E 2,020,862.8283
Back = N 34° 22' 01.19" W
Ahead = N 13° 42' 03.36" W
Chord Bear = N 24° 02' 02.28" W

Ending chain OLDNACL description

RELOC. J3-107 (REGENT PARKWAY) CONSTRUCTION CENTERLINE

Beginning chain REGENTPKWY description

Point 15035 N 1,180,257.9250 E 2,019,500.3642 Sta 10+00.0000
Course from 15035 to PC REGENTPKWY-1 S 83° 06' 42.55" E Dist 58.4650

Curve Data

Curve REGENTPKWY-1
P.I. Station 12+04.92 N 1,180,233.3490 E 2,019,703.8015
Delta = 13° 34' 48.17" (RT)
Degree = 4° 39' 29.50"
Tangent = 146.4514
Length = 291.5303
Radius = 1,230.0000
D.S. = N/A
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 8.6880
Long Chord = 290.8484
Mid. Ord. = 8.6271
P.C. Station 10+58.4650 N 1,180,250.9132 E 2,019,558.4072
P.T. Station 13+49.9953 N 1,180,182.1367 E 2,019,841.0069
C.C. N 1,179,029.7912 E 2,019,410.8907
Back = S 83° 06' 42.55" E
Ahead = S 69° 31' 54.38" E
Chord Bear = S 76° 19' 18.46" E

Course from PT REGENTPKWY-1 to 15036 S 69° 31' 54.38" E Dist 514.0546
Point 15036 N 1,180,002.3780 E 2,020,322.6073 Sta 18+64.0499

Ending chain REGENTPKWY description

RELOC. RETAIL DRIVE (DRIVEWAY) CONSTRUCTION CENTERLINE

Beginning chain RETAIL description

Point 15042 N 1,182,011.2965 E 2,019,393.4005 Sta 10+00.0000
Course from 15042 to PC RETAIL-1 N 57° 04' 58.00" E Dist 110.7294

Curve Data

Curve RETAIL-1
P.I. Station 11+70.18 N 1,182,103.7772 E 2,019,536.2596
Delta = 43° 14' 27.00" (RT)
Degree = 38° 11' 49.87"
Tangent = 59.4510
Length = 113.2042
Radius = 150.0000
D.S. = 15 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 11.3519
Long Chord = 110.5368
Mid. Ord. = 10.5532
P.C. Station 11+10.7294 N 1,182,071.4699 E 2,019,486.3531
P.T. Station 12+23.9337 N 1,182,093.1231 E 2,019,594.7482
C.C. N 1,181,945.5514 E 2,019,567.8671
Back = N 57° 04' 58.00" E
Ahead = S 79° 40' 35.00" E
Chord Bear = N 78° 42' 11.50" E

Course from PT RETAIL-1 to 15043 S 79° 40' 35.00" E Dist 178.7904
Point 15043 N 1,182,061.0825 E 2,019,770.6442 Sta 14+02.7241

Ending chain RETAIL description

US 21 BUS. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 20+17.53

OLD NATION RD. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+06.77

J3-107 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 18+64.05

RETAIL DR. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+02.72

SC 51 RELOCATE CENTERLINE
STA. 295+62.30 TO STA. 306+19.03

OLD SC 51 RELOCATE CENTERLINE
STA. 302+05.00 TO STA. 306+53.57
STA. 313+18.12 TO STA. 316+16.73

S-641 RELOCATE CENTERLINE
STA. 15+79.39 TO STA. 21+69.05

RELOC. SC 51 (HIGHWAY 51) CONSTRUCTION CENTERLINE

Beginning chain SC51 description

Point 15100 N 1,184,076.6146 E 2,020,189.1097 Sta 295+62.3000
Course from 15100 to 15101 S 77° 17' 40.80" E Dist 324.2610

Curve Data

Curve SC51-1
P.I. Station 301+19.79 N 1,183,954.0020 E 2,020,732.9487
Delta = 27° 26' 53.20" (LT)
Degree = 5° 59' 58.41"
Tangent = 233.2287
Length = 457.5022
Radius = 955.0000
D.S. = 45 MPH
eMAX = 4%
e = 3.85%
P.C. - LG% = 0.54%
P.T. - LG% = 0.54%
External = 28.0670
Long Chord = 453.1399
Mid. Ord. = 27.2656
P.C. Station 298+86.5610 N 1,184,005.2976 E 2,020,505.4308
P.T. Station 303+44.0632 N 1,184,013.3541 E 2,020,958.4991
C.C. N 1,184,936.9136 E 2,020,715.4706
Back = S 77° 17' 40.80" E
Ahead = N 75° 15' 26.00" E
Chord Bear = N 88° 58' 52.60" E
Course from 15102 to 15103 N 75° 15' 26.00" E Dist 2,766.2238

Curve Data

Curve SC51-2
P.I. Station 333+36.82 N 1,184,774.9511 E 2,023,852.7292
Delta = 9° 02' 33.11" (RT)
Degree = 2° 00' 00.00"
Tangent = 226.5338
Length = 452.1268
Radius = 2,864.7900
D.S. = 45 MPH
eMAX = 4%
e = 2.45%
P.C. - LG% = 0.54%
P.T. - LG% = 0.54%
External = 8.9426
Long Chord = 451.6577
Mid. Ord. = 8.9148
P.C. Station 331+10.2869 N 1,184,717.3028 E 2,023,633.6533
P.T. Station 335+62.4137 N 1,184,797.4513 E 2,024,078.1428
C.C. N 1,181,946.8273 E 2,024,362.6852
Back = N 75° 15' 26.00" E
Ahead = N 84° 17' 59.12" E
Chord Bear = N 79° 46' 42.56" E
Course from 15104 to 15105 N 84° 17' 59.12" E Dist 728.9907
Point 15105 N 1,184,869.8576 E 2,024,803.5287 Sta 342+91.4044

Ending chain SC51 description

RELOC. OLD SC 51 CONSTRUCTION CENTERLINE

Beginning chain OLDSC51 description

Point 15120 N 1,183,982.5932 E 2,020,679.4471 Sta 302+05.0000
Course from 15120 to PC OLDSC51-1 S 1° 09' 16.24" W Dist 82.6525

Curve Data

Curve OLDSC51-1
P.I. Station 304+74.6975 N 1,183,712.9505 E 2,020,674.0130
Delta = 29° 16' 23.63" (RT)
Degree = 7° 59' 59.89"
Tangent = 187.0450
Length = 365.9168
Radius = 716.2000
D.S. = NA
eMAX = 4%
e = 2.68%
P.C. - LG% = 0.70%
P.T. - LG% = 0.70%
External = 24.0218
Long Chord = 361.9499
Mid. Ord. = 23.2422
P.C. Station 302+87.6525 N 1,183,899.9575 E 2,020,677.7817
P.T. Station 306+53.5693 N 1,183,551.6675 E 2,020,579.2839
C.C. N 1,183,914.3880 E 2,019,961.7271
Back = S 1° 09' 16.24" W
Ahead = S 30° 25' 39.88" W
Chord Bear = S 15° 47' 28.06" W
Course from PT OLDSC51-1 to PC OLDSC51-2 S 30° 25' 39.88" W Dist 664.5515

Curve Data

Curve OLDSC51-2
P.I. Station 314+10.5276 N 1,182,898.9662 E 2,020,195.9213
Delta = 26° 00' 58.27" (RT)
Degree = 14° 19' 26.20"
Tangent = 92.4068
Length = 181.6272
Radius = 400.0000
D.S. = 35 MPH
eMAX = 4%
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 10.5350
Long Chord = 180.0709
Mid. Ord. = 10.2647
P.C. Station 313+18.1208 N 1,182,978.6457 E 2,020,242.7209
P.T. Station 314+99.7480 N 1,182,847.8881 E 2,020,118.9146
C.C. N 1,183,181.2263 E 2,019,897.8135
Back = S 30° 25' 39.88" W
Ahead = S 56° 26' 38.15" W
Chord Bear = S 43° 26' 09.01" W
Course from PT OLDSC51-2 to 15121 S 56° 26' 38.15" W Dist 116.9792
Point 15121 N 1,182,783.2276 E 2,020,021.4306 Sta 316+16.7272

Ending chain OLDSC51 description

RELOC. S-641 (FLINT HILL ROAD) AT SC 51 CONSTRUCTION CENTERLINE

Beginning chain FLINT2 description

Point 16 N 1,184,483.4239 E 2,022,744.8642 Sta 15+79.39

Course from 16 to PC FLINT2-1 S 14° 44' 34.00" E Dist 215.8628

Curve Data

Curve FLINT2-1
P.I. Station 19+92.32 N 1,184,084.0905 E 2,022,849.9461
Delta = 44° 51' 07.37" (RT)
Degree = 11° 59' 56.82"
Tangent = 197.0651
Length = 373.7946
Radius = 477.5000
D.S. = 35 MPH
eMAX = 4%
e = 3.95%
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 39.0664
Long Chord = 364.3232
Mid. Ord. = 36.1120
P.C. Station 17+95.26 N 1,184,274.6678 E 2,022,799.7970
P.T. Station 21+69.05 N 1,183,913.6153 E 2,022,751.0882
C.C. N 1,184,153.1536 E 2,022,338.0172
Back = S 14° 44' 34.00" E
Ahead = S 30° 06' 33.38" W
Chord Bear = S 7° 40' 59.69" W

Course from PT FLINT2-1 to A16 S 29° 46' 32.93" W Dist 409.9047

Point A16 N 1,183,557.8282 E 2,022,547.5264 Sta 25+78.96

Ending chain FLINT2 description

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

DocuSigned by: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. GRATEN 3/31/2023

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO. 5B

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	5C

RELOC. CONSTRUCTION CENTERLINES

RELOC. S-641 (FLINT HILL ROAD) AT US 21
CONSTRUCTION CENTERLINE

Beginning chain FLINTHILL description

Point 15040 N 1,182,055.1796 E 2,019,769.5690 Sta 10+00.0000
Course from 15040 to PC FLINTHILL-1 S 79° 40' 35.00" E Dist 39.2308

Curve Data

Curve FLINTHILL-1
P.I. Station 10+68.42 N 1,182,042.9182 E 2,019,836.8815
Delta = 6° 40' 55.66" (LT)
Degree = 11° 27' 32.96"
Tangent = 29.1894
Length = 58.3126
Radius = 500.0000
D.S. = N/A
eMAX = 6%
e = NC
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 0.8513
Long Chord = 58.2795
Mid. Ord. = 0.8498
P.C. Station 10+39.2308 N 1,182,048.1491 E 2,019,808.1647
P.T. Station 10+97.5433 N 1,182,041.0643 E 2,019,866.0119
C.C. N 1,182,540.0548 E 2,019,897.7685
Back = S 79° 40' 35.00" E
Ahead = S 86° 21' 30.66" E
Chord Bear = S 83° 01' 02.83" E

Course from PT FLINTHILL-1 to 15041 S 86° 21' 30.66" E Dist 544.5004
Point 15041 N 1,182,006.4814 E 2,020,409.4129 Sta 16+42.0437

Ending chain FLINTHILL description

RELOC. S-48 (SPRINGHILL FARM ROAD)
CONSTRUCTION CENTERLINE

Beginning chain SPRINGHILL description

Point 18 N 1,185,206.2837 E 2,022,795.3329 Sta 23+37.20
Course from 18 to PC C1 S 28° 12' 41.79" W Dist 144.8583

Curve Data

Curve C1
P.I. Station 26+78.79 N 1,184,905.2775 E 2,022,633.8563
Delta = 42° 57' 15.79" (LT)
Degree = 11° 27' 32.96"
Tangent = 196.7254
Length = 374.8477
Radius = 500.0000
D.S. = 35 MPH
eMAX = 4%
e = 3.90%
P.C. - LG% = 0.62%
P.T. - LG% = 0.62%
External = 37.3089
Long Chord = 366.1308
Mid. Ord. = 34.7183
P.C. Station 24+82.06 N 1,185,078.6334 E 2,022,726.8541
P.T. Station 28+56.91 N 1,184,715.0288 E 2,022,683.9189
C.C. N 1,184,842.2688 E 2,023,167.4580
Back = S 28° 12' 41.79" W
Ahead = S 14° 44' 34.00" E
Chord Bear = S 6° 44' 03.90" W

Course from PT C1 to 21 S 14° 44' 34.00" E Dist 239.4893
Point 21 N 1,184,483.4239 E 2,022,744.8642 Sta 30+96.40

Ending chain SPRINGHILL description

TRACT 73 DRIVEWAY CENTERLINE

Beginning chain TR73DW description

Point R714 N 1,179,172.4625 E 2,019,369.2360 Sta 10+00.00

Course from R714 to PC TR73DW_3 S 83° 27' 45.15" E Dist 91.9608

Curve Data

Curve TR73DW_3
P.I. Station 11+31.17 N 1,179,157.5284 E 2,019,499.5534
Delta = 88° 51' 23.54" (RT)
Degree = 143° 14' 22.02"
Tangent = 39.2096
Length = 62.0336
Radius = 40.0000
External = 16.0124
Long Chord = 56.0013
Mid. Ord. = 11.4349
P.C. Station 10+91.96 N 1,179,161.9925 E 2,019,460.5988
P.T. Station 11+53.99 N 1,179,118.4924 E 2,019,495.8676
C.C. N 1,179,122.2526 E 2,019,456.0447
Back = S 83° 27' 45.15" E
Ahead = S 5° 23' 38.40" W
Chord Bear = S 39° 02' 03.38" E

Course from PT TR73DW_3 to R715 S 5° 23' 38.40" W Dist 53.0206

Point R715 N 1,179,065.7067 E 2,019,490.8834 Sta 12+07.01

Ending chain TR73DW description

EXISTING/ CONSTRUCTION CENTERLINES

MERCANTILE PLACE
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain MERCANTILE description

Point 15020 N 1,174,081.0853 E 2,018,754.1772 Sta 10+00.0000
Course from 15020 to PC MERCANTILE-1 S 83° 58' 12.69" E Dist 252.7983

Curve Data

Curve MERCANTILE-1
P.I. Station 13+32.426 N 1,174,046.1662 E 2,019,084.7556
Delta = 29° 43' 37.26" (RT)
Degree = 19° 05' 54.94"
Tangent = 79.6193
Length = 155.6503
Radius = 300.0000
D.S. = 35 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 10.3856
Long Chord = 153.9104
Mid. Ord. = 10.0381
P.C. Station 12+52.7983 N 1,174,054.5299 E 2,019,005.5769
P.T. Station 14+08.4486 N 1,173,999.6410 E 2,019,149.3670
C.C. N 1,173,756.1897 E 2,018,974.0631
Back = S 83° 58' 12.69" E
Ahead = S 54° 14' 35.42" E
Chord Bear = S 69° 06' 24.05" E
Course from PT MERCANTILE-1 to 15021 S 54° 14' 35.42" E Dist 127.4312
Point 15021 N 1,173,925.1770 E 2,019,252.7780 Sta 15+35.8798

Ending chain MERCANTILE description

EMBASSY DRIVE (DRIVEWAY)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain EMBASSY description

Point 15060 N 1,176,979.7988 E 2,019,104.3534 Sta 10+00.0000
Course from 15060 to PC EMBASSY-1 S 85° 02' 43.00" E Dist 136.3575

Curve Data

Curve EMBASSY-1
P.I. Station 11+54.13 N 1,176,966.4865 E 2,019,257.9117
Delta = 16° 11' 16.85" (LT)
Degree = 45° 50' 11.84"
Tangent = 17.7768
Length = 35.3168
Radius = 125.0000
D.S. = 20 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 1.2577
Long Chord = 35.1994
Mid. Ord. = 1.2452
P.C. Station 11+36.3575 N 1,176,968.0219 E 2,019,240.2013
P.T. Station 11+71.6742 N 1,176,969.9495 E 2,019,275.3479
C.C. N 1,177,092.5548 E 2,019,250.9974
Back = S 85° 02' 43.00" E
Ahead = N 78° 46' 00.15" E
Chord Bear = N 86° 51' 38.58" E

Course from PT EMBASSY-1 to 15061 N 78° 46' 00.15" E Dist 73.4218
Point 15061 N 1,176,984.2524 E 2,019,347.3631 Sta 12+45.0960

Ending chain EMBASSY description

S-676 (GARRISON FARM ROAD)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain GARRISONFARM description

Point 15055 N 1,178,768.4831 E 2,019,320.4336 Sta 10+00.00
Course from 15055 to 15056 N 89° 52' 54.06" E Dist 393.6017
Point 15056 N 1,178,769.2959 E 2,019,714.0345 Sta 13+93.60

Ending chain GARRISONFARM description

REGENT DRIVEWAY (PRIVATE)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain REGENTDWY description

Point 15048 N 1,179,516.7879 E 2,019,410.8318 Sta 10+00.0000
Course from 15048 to 15049 S 82° 54' 06.32" E Dist 268.6181
Point 15049 N 1,179,483.5945 E 2,019,677.3912 Sta 12+68.6181

Ending chain REGENTDWY description

J3-040 (BAXTER LANE)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain BAXTER description

Point 15065 N 1,179,045.8845 E 2,018,880.4222 Sta 10+00.00
Course from 15065 to 15066 S 58° 37' 47.08" E Dist 516.5471
Point 15066 N 1,178,776.9874 E 2,019,321.4610 Sta 15+16.55

Ending chain BAXTER description

J2-010 (TERRYS ROAD)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain TERRYS description

Curve Data

Curve TERRYS-1
P.I. Station 11+08.29 N 1,182,515.0438 E 2,019,682.2021
Delta = 36° 20' 08.84" (RT)
Degree = 17° 21' 44.49"
Tangent = 108.2936
Length = 209.2791
Radius = 330.0000
D.S. = N/A
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 17.3147
Long Chord = 205.7897
Mid. Ord. = 16.4515
P.C. Station 10+00.0000 N 1,182,466.8201 E 2,019,585.2383
P.T. Station 12+09.2791 N 1,182,496.4382 E 2,019,788.8855
C.C. N 1,182,171.3451 E 2,019,732.1891
Back = N 63° 33' 25.67" E
Ahead = S 80° 06' 25.48" E
Chord Bear = N 81° 43' 30.09" E
Course from PT TERRYS-1 to 15028 S 80° 06' 25.49" E Dist 56.8273
Point 15028 N 1,182,486.6748 E 2,019,844.8678 Sta 12+66.1064

Ending chain TERRYS description

EXISTING S-48 (SPRINGHILL FARM ROAD)
CUL-DE-SAC
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain EX-SPRINGHILL description

Curve Data

Curve EX-SPRINGHILL-1
P.I. Station 13+50.71 N 1,185,364.5959 E 2,022,500.5328
Delta = 34° 02' 00.59" (RT)
Degree = 4° 59' 59.93"
Tangent = 350.7092
Length = 680.6726
Radius = 1,145.9200
D.S. = 35 MPH
eMAX = MATCH EXIST.
e = MATCH EXIST.
P.C. - LG% = MATCH EXIST.
P.T. - LG% = MATCH EXIST.
External = 52.4663
Long Chord = 670.7098
Mid. Ord. = 50.1692
P.C. Station 10+00.00 N 1,185,329.0550 E 2,022,151.6291
P.T. Station 16+80.67 N 1,185,198.7755 E 2,022,809.5644
C.C. N 1,184,189.0344 E 2,022,267.7568
Back = N 84° 11' 01.15" E
Ahead = S 61° 46' 58.26" E
Chord Bear = S 78° 47' 58.55" E

Course from PT EX-SPRINGHILL-1 to 170 S 61° 47' 14.46" E Dist 991.7348
Point 170 N 1,184,729.9375 E 2,023,683.4802 Sta 26+72.41

Ending chain EX-SPRINGHILL description

S-328 (ANDREW L TUCKER ROAD)
EXISTING/ CONSTRUCTION CENTERLINE

Beginning chain ANDREW description

Point 15110 N 1,184,749.6069 E 2,023,769.8546 Sta 0+00.0000
Course from 15110 to 15111 N 14° 34' 00.51" E Dist 594.0356
Point 15111 N 1,185,324.5473 E 2,023,919.2598 Sta 5+94.0356

Ending chain ANDREW description

S-641 RELOCATE CENTERLINE STA. 10+00.00 TO STA. 10+97.54
S-48 RELOCATE CENTERLINE STA. 23+37.20 TO STA. 30+96.40

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. MARTIN
10/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO. 5C

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1/10/2023

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EXISTING CENTERLINES (FOR INFORMATION ONLY)

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	5D

US 21 (NORTH HIGHWAY 21 BYPASS)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-US21 description

Point 30000 N 1,172,301.8502 E 2,018,539.2384 Sta 10+00.00

Course from 30000 to PC EX-US21-1 N 6° 53' 17.45" E Dist 8,694.1666

Curve Data

Curve EX-US21-1
P.I. Station 98+44.44 N 1,181,082.4499 E 2,019,599.9701
Delta = 3° 00' 17.06" (RT)
Degree = 1° 00' 00.00"
Tangent = 150.2714
Length = 300.4739
Radius = 5,729.5780
External = 1.9703
Long Chord = 300.4395
Mid. Ord. = 1.9696
P.C. Station 96+94.17 N 1,180,933.2631 E 2,019,581.9477
P.T. Station 99+94.64 N 1,181,230.4868 E 2,019,625.7878
C.C. N 1,180,246.1030 E 2,025,270.1702
Back = N 6° 53' 17.45" E
Ahead = N 9° 53' 34.52" E
Chord Bear = N 8° 23' 25.98" E

Course from PT EX-US21-1 to PC EX-US21-2 N 9° 53' 34.52" E Dist 1,341.2833

Curve Data

Curve EX-US21-2
P.I. Station 116+35.47 N 1,182,846.9190 E 2,019,907.6946
Delta = 2° 59' 41.24" (RT)
Degree = 0° 30' 00.00"
Tangent = 299.5472
Length = 598.9579
Radius = 11,459.1560
External = 3.9145
Long Chord = 598.8897
Mid. Ord. = 3.9131
P.C. Station 113+35.92 N 1,182,551.8260 E 2,019,856.2302
P.T. Station 119+34.88 N 1,183,138.9203 E 2,019,974.5059
C.C. N 1,180,583.0583 E 2,031,144.9950
Back = N 9° 53' 34.52" E
Ahead = N 12° 53' 15.76" E
Chord Bear = N 11° 23' 25.14" E

Course from PT EX-US21-2 to 30001 N 12° 53' 15.76" E Dist 1,331.1734

Point 30001 N 1,184,436.5602 E 2,020,271.4122 Sta 132+66.06

Ending chain EX-US21 description

S-1776 (GOLD HILL ROAD)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-GOLDHILL description

Point 120 N 1,176,123.9738 E 2,017,745.6629 Sta 10+00.00
Course from 120 to PC EX-GH-1 N 55° 33' 31.68" E Dist 623.3741

Curve Data

Curve EX-GH-1
P.I. Station 18+12.19 N 1,176,583.3149 E 2,018,415.4799
Delta = 12° 02' 36.58" (LT)
Degree = 3° 12' 03.78"
Tangent = 188.8137
Length = 376.2359
Radius = 1,789.9063
External = 9.9312
Long Chord = 375.5436
Mid. Ord. = 9.8764
P.C. Station 16+23.37 N 1,176,476.5294 E 2,018,259.7639
P.T. Station 19+99.61 N 1,176,720.2408 E 2,018,545.4872
C.C. N 1,177,952.6778 E 2,017,247.4642
Back = N 55° 33' 31.68" E
Ahead = N 43° 30' 55.10" E
Chord Bear = N 49° 32' 13.39" E

Course from PT EX-GH-1 to 121 N 43° 30' 55.10" E Dist 877.8054
Point 121 N 1,177,356.8168 E 2,019,149.8987 Sta 28+77.42

Ending chain EX-GOLDHILL description

S-1467 (AMELIA DRIVE)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-AMELIA description

Point 30004 N 1,174,882.9412 E 2,018,851.0446 Sta 10+00.00

Course from 30004 to PC EX-AMELIA-1 S 82° 52' 06.71" E Dist 194.8649

Curve Data

Curve EX-AMELIA-1
P.I. Station 11+97.29 N 1,174,858.4482 E 2,019,046.8089
Delta = 1° 51' 07.03" (LT)
Degree = 38° 10' 36.57"
Tangent = 2.4257
Length = 4.8510
Radius = 150.0800
External = 0.0196
Long Chord = 4.8508
Mid. Ord. = 0.0196
P.C. Station 11+94.86 N 1,174,858.7494 E 2,019,044.4020
P.T. Station 11+99.72 N 1,174,858.2250 E 2,019,049.2244
C.C. N 1,175,007.6683 E 2,019,063.0339
Back = S 82° 52' 06.71" E
Ahead = S 84° 43' 13.74" E
Chord Bear = S 83° 47' 40.23" E

Course from PT EX-AMELIA-1 to PC EX-AMELIA-2 S 84° 43' 13.84" E Dist 0.1520

Curve Data

Curve EX-AMELIA-2
P.I. Station 12+71.86 N 1,174,851.5865 E 2,019,121.0651
Delta = 51° 15' 17.97" (LT)
Degree = 38° 10' 36.57"
Tangent = 71.9949
Length = 134.2568
Radius = 150.0800
External = 16.3750
Long Chord = 129.8247
Mid. Ord. = 14.7641
P.C. Station 11+99.87 N 1,174,858.2110 E 2,019,049.3757
P.T. Station 13+34.12 N 1,174,903.3538 E 2,019,171.0991
C.C. N 1,175,007.6544 E 2,019,063.1853
Back = S 84° 43' 13.74" E
Ahead = N 44° 01' 28.29" E
Chord Bear = N 69° 39' 07.27" E

Course from PT EX-AMELIA-2 to PC EX-AMELIA-3 N 44° 01' 28.29" E Dist 87.6068

Curve Data

Curve EX-AMELIA-3
P.I. Station 14+75.29 N 1,175,004.8588 E 2,019,269.2053
Delta = 2° 52' 41.18" (LT)
Degree = 2° 41' 14.53"
Tangent = 53.5600
Length = 107.0976
Radius = 2,132.0400
External = 0.6726
Long Chord = 107.0863
Mid. Ord. = 0.6724
P.C. Station 14+21.73 N 1,174,966.3468 E 2,019,231.9829
P.T. Station 15+28.83 N 1,175,045.1911 E 2,019,304.4471
C.C. N 1,176,448.0426 E 2,017,698.9558
Back = N 44° 01' 28.29" E
Ahead = N 41° 08' 47.11" E
Chord Bear = N 42° 35' 07.70" E

Ending chain EX-AMELIA description

S-1469 (FERN FOREST COURT)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-FERNFOREST description

Point 30009 N 1,175,221.4424 E 2,018,891.9369 Sta 10+00.00

Course from 30009 to PC EX-FERNFOREST-1 S 83° 10' 15.21" E Dist 84.5079

Curve Data

Curve EX-FERNFOREST-1
P.I. Station 11+34.26 N 1,175,205.6732 E 2,019,025.2658
Delta = 58° 15' 04.66" (LT)
Degree = 64° 10' 05.49"
Tangent = 49.7505
Length = 90.7791
Radius = 89.2900
External = 12.9246
Long Chord = 86.9196
Mid. Ord. = 11.2903
P.C. Station 10+84.51 N 1,175,211.3937 E 2,018,975.8452
P.T. Station 11+75.29 N 1,175,244.6886 E 2,019,056.1351
C.C. N 1,175,300.0914 E 2,018,986.1120
Back = S 83° 23' 50.55" E
Ahead = N 38° 21' 04.79" E
Chord Bear = N 67° 28' 37.12" E

Course from PT EX-FERNFOREST-1 to 30010 N 38° 21' 04.79" E Dist 363.5758

Point 30010 N 1,175,529.8124 E 2,019,281.7273 Sta 15+38.86

Ending chain EX-FERNFOREST description

SC 460 (SPRINGFIELD PKWY)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

eginning chain SPRINGFIELD description

Curve Data

Curve SPRINGFIELD-1
P.I. Station 55+92.20 N 1,172,482.2952 E 2,017,379.8770
Delta = 22° 56' 23.42" (LT)
Degree = 3° 58' 43.22"
Tangent = 292.1988
Length = 576.5701
Radius = 1,440.0725
External = 29.3454
Long Chord = 572.7268
Mid. Ord. = 28.7593
P.C. Station 53+00.00 N 1,172,517.0299 E 2,017,089.7500
P.T. Station 58+76.57 N 1,172,563.3887 E 2,017,660.5975
C.C. N 1,173,946.8915 E 2,017,260.9364
Back = S 83° 10' 22.48" E
Ahead = N 73° 53' 14.10" E
Chord Bear = N 85° 21' 25.81" E

Course from PT SPRINGFIELD-1 to PC SPRINGFIELD-2 N 73° 53' 14.10" E Dist 235.9517

Curve Data

Curve SPRINGFIELD-2
P.I. Station 63+32.99 N 1,172,690.0583 E 2,018,099.0882
Delta = 9° 53' 47.03" (RT)
Degree = 2° 15' 00.00"
Tangent = 220.4684
Length = 439.8400
Radius = 2,546.4800
External = 9.5260
Long Chord = 439.2934
Mid. Ord. = 9.4905
P.C. Station 61+12.52 N 1,172,628.8720 E 2,017,887.2804
P.T. Station 65+52.36 N 1,172,713.9313 E 2,018,318.2603
C.C. N 1,170,182.4243 E 2,018,594.0011
Back = N 73° 53' 14.10" E
Ahead = N 83° 47' 01.13" E
Chord Bear = N 78° 50' 07.61" E

Course from PT SPRINGFIELD-2 to SP2 N 83° 47' 01.13" E Dist 1,144.1486

Point SP2 N 1,172,837.8232 E 2,019,455.6814 Sta 76+96.51

Ending chain SPRINGFIELD description

S-1133 (LAKE SHORE DRIVE)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-LAKESHORE description

Point 30015 N 1,175,252.8010 E 2,018,652.8594 Sta 10+00.00

Course from 30015 to PC EX-LAKESHORE-1 N 32° 03' 50.04" E Dist 196.9571

Curve Data

Curve EX-LAKESHORE-1
P.I. Station 12+78.69 N 1,175,488.1151 E 2,018,802.1637
Delta = 5° 29' 04.17" (RT)
Degree = 3° 21' 27.01"
Tangent = 81.7376
Length = 163.3504
Radius = 1,706.5000
External = 1.9564
Long Chord = 163.2880
Mid. Ord. = 1.9542
P.C. Station 11+96.96 N 1,175,419.7136 E 2,018,757.4170
P.T. Station 13+60.31 N 1,175,551.9267 E 2,018,853.2432
C.C. N 1,174,485.5004 E 2,020,185.4883
Back = N 33° 11' 30.62" E
Ahead = N 38° 40' 34.80" E
Chord Bear = N 35° 56' 02.71" E

Course from PT EX-LAKESHORE-1 to PC EX-LAKESHORE-2 N 38° 40' 34.80" E Dist 20.7998

Curve Data

Curve EX-LAKESHORE-2
P.I. Station 14+22.86 N 1,175,600.7623 E 2,018,892.3347
Delta = 58° 12' 42.66" (RT)
Degree = 76° 23' 39.74"
Tangent = 41.7546
Length = 76.1991
Radius = 75.0000
External = 10.8397
Long Chord = 72.9639
Mid. Ord. = 9.4709
P.C. Station 13+81.11 N 1,175,568.1649 E 2,018,866.2414
P.T. Station 14+57.31 N 1,175,595.7545 E 2,018,933.7880
C.C. N 1,175,521.2959 E 2,018,924.7931
Back = N 38° 40' 34.80" E
Ahead = S 83° 06' 42.55" E
Chord Bear = N 67° 46' 56.13" E

Course from PT EX-LAKESHORE-2 to 30016 S 83° 06' 42.55" E Dist 3.3430

Point 30016 N 1,175,595.3536 E 2,018,937.1069 Sta 14+60.65

Ending chain EX-LAKESHORE description

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Document ID: 6F4F405...
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARLSEN
3/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03398
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
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3			
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO.

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	5E

EXISTING CENTERLINES (FOR INFORMATION ONLY)

US 21 BUSINESS (OLD NATION ROAD)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-OLDUS21BUS description
==========
Point 150 N 1,178,535.6772 E 2,019,292.3097 Sta 10+00.00
Course from 150 to PC EX_OLDUS21BUS-1 S 29° 50' 12.92" E Dist 230.5730

Curve Data

Curve EX_OLDUS21BUS-1
P.I. Station 12+68.71 N 1,178,302.5869 E 2,019,426.0014
Delta = 8° 43' 23.72" (RT)
Degree = 11° 27' 32.96"
Tangent = 38.1361
Length = 76.1248
Radius = 500.0000
External = 1.4523
Long Chord = 76.0513
Mid. Ord. = 1.4480
P.C. Station 12+30.57 N 1,178,335.6678 E 2,019,407.0274
P.T. Station 13+06.70 N 1,178,267.0109 E 2,019,439.7387
C.C. N 1,178,086.9013 E 2,018,973.3049
Back = S 29° 50' 12.92" E
Ahead = S 21° 06' 49.20" E
Chord Bear = S 25° 28' 31.06" E

Curve Data

Curve EX_OLDUS21BUS-2
P.I. Station 14+83.92 N 1,178,101.6827 E 2,019,503.5789
Delta = 13° 15' 11.99" (LT)
Degree = 3° 45' 21.13"
Tangent = 177.2259
Length = 352.8699
Radius = 1,525.5000
External = 10.2602
Long Chord = 352.0837
Mid. Ord. = 10.1916
P.C. Station 13+06.70 N 1,178,267.0109 E 2,019,439.7387
P.T. Station 16+59.57 N 1,177,955.3936 E 2,019,603.6214
C.C. N 1,178,816.5255 E 2,020,862.8283
Back = S 21° 06' 49.20" E
Ahead = S 34° 22' 01.19" E
Chord Bear = S 27° 44' 25.19" E

Course from PT EX_OLDUS21BUS-2 to 151 S 34° 22' 01.19" E Dist 901.1391
Point 151 N 1,177,211.5584 E 2,020,112.3069 Sta 25+60.71
==========
Ending chain EX-OLDUS21BUS description

J3-076 (CENTRAL CAROLINAS PARKWAY)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-CENTRALCAR description
==========
Point 30025 N 1,179,561.1977 E 2,019,004.0528 Sta 10+00.00
Course from 30025 to 30026 S 83° 20' 39.65" E Dist 409.1725
Point 30026 N 1,179,513.7738 E 2,019,410.4677 Sta 14+09.17
==========
Ending chain EX-CENTRALCAR description

LAKES BOULEVARD
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-LAKES description
==========
Point 30034 N 1,180,966.8397 E 2,019,586.1045 Sta 10+00.00
Course from 30034 to 30035 S 76° 40' 34.89" E Dist 425.0812
Point 30035 N 1,180,868.8792 E 2,019,999.7442 Sta 14+25.08
==========
Ending chain EX-LAKES description

J3-107 (REGENT PARKWAY)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-REGENTPKWY description
==========
Point 30027 N 1,180,254.9467 E 2,019,500.0044 Sta 10+00.00
Course from 30027 to PC EX-REGENTPKWY-1 S 83° 06' 42.55" E Dist 57.8883

Curve Data

Curve EX-REGENTPKWY-1
P.I. Station 12+04.56 N 1,180,230.4135 E 2,019,703.0871
Delta = 13° 34' 48.17" (RT)
Degree = 4° 39' 04.40"
Tangent = 146.6710
Length = 291.9674
Radius = 1,231.8439
External = 8.7010
Long Chord = 291.2845
Mid. Ord. = 8.6400
P.C. Station 10+57.89 N 1,180,248.0040 E 2,019,557.4748
P.T. Station 13+49.86 N 1,180,179.1244 E 2,019,840.4982
C.C. N 1,179,025.0515 E 2,019,409.7372
Back = S 83° 06' 42.55" E
Ahead = S 69° 31' 54.37" E
Chord Bear = S 76° 19' 18.46" E

Course from PT EX-REGENTPKWY-1 to 30028 S 69° 31' 54.37" E Dist 232.9741

Point 30028 N 1,180,097.6562 E 2,020,058.7637 Sta 15+82.83

==========
Ending chain EX-REGENTPKWY description

RETAIL DRIVE (DRIVEWAY)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-RETAIL description
==========
Curve Data

Curve EX-RETAIL-1
P.I. Station 10+49.83 N 1,182,094.9034 E 2,019,557.0741
Delta=27° 39' 49.78" (RT)
Degree = 28° 18' 41.35"
Tangent = 49.8280
Length = 97.7124
Radius = 202.3765
External = 6.0439
Long Chord = 96.7660
Mid. Ord. = 5.8687
P.C. Station 10+00.00 N 1,182,080.0524 E 2,019,509.5108
P.T. Station 10+97.71 N 1,182,085.9738 E 2,019,606.0954
C.C. N 1,181,886.8736 E 2,019,569.8280
Back = N 72° 39' 35.22" E
Ahead = S 79° 40' 35.00" E
Chord Bear = N 86° 29' 30.11" E

Course from PT EX-RETAIL-1 to 30046 S 79° 40' 35.00" E Dist 166.3833

Point 30046 N 1,182,056.1567 E 2,019,769.7852 Sta 12+64.10

==========
Ending chain EX-RETAIL description

S-641 (FLINT HILL ROAD) AT US 21
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-FLINTHILL21 description
==========
Point 30040 N 1,182,046.8113 E 2,019,775.7096 Sta 10+00.00
Course from 30040 to 30041 S 86° 21' 30.66" E Dist 634.9854
Point 30041 N 1,182,006.4814 E 2,020,409.4129 Sta 16+34.99
==========
Ending chain EX-FLINTHILL21 description

SC 51 (HIGHWAY 51)
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-SC51 description
==========
Point 130 N 1,182,783.2276 E 2,020,021.4306 Sta 10+00.00
Course from 130 to PC EX_SC51-1 N 56° 26' 38.15" E Dist 116.9792

Curve Data

Curve EX_SC51-1
P.I. Station 12+09.39 N 1,182,898.9662 E 2,020,195.9213
Delta = 26° 00' 58.27" (LT)
Degree = 14° 19' 26.20"
Tangent = 92.4068
Length = 181.6272
Radius = 400.0000
External = 10.5350
Long Chord = 180.0709
Mid. Ord. = 10.2647
P.C. Station 11+16.98 N 1,182,847.8881 E 2,020,118.9146
P.T. Station 12+98.61 N 1,182,978.6457 E 2,020,242.7209
C.C. N 1,183,181.2263 E 2,019,897.8135
Back = N 56° 26' 38.15" E
Ahead = N 30° 25' 39.88" E
Chord Bear = N 43° 26' 09.01" E

Course from PT EX_SC51-1 to PC EX_SC51-2 N 30° 25' 39.88" E Dist 753.8744

Curve Data

Curve EX_SC51-2
P.I. Station 24+59.59 N 1,183,979.7253 E 2,020,830.7026
Delta = 44° 49' 46.13" (RT)
Degree = 5° 48' 18.16"
Tangent = 407.1091
Length = 772.2505
Radius = 987.0000
External = 80.6642
Long Chord = 752.7024
Mid. Ord. = 74.5699
P.C. Station 20+52.48 N 1,183,628.6879 E 2,020,624.5216
P.T. Station 28+24.73 N 1,184,083.3264 E 2,021,224.4088
C.C. N 1,183,128.8204 E 2,021,475.5806
Back = N 30° 25' 39.88" E
Ahead = N 75° 15' 26.00" E
Chord Bear = N 52° 50' 32.94" E
==========
Ending chain EX-SC51 description

S-641 (FLINT HILL ROAD) AT SC 51
EXISTING CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX-FLINT description
==========
Point 113 N 1,184,893.8104 E 2,023,378.0206 Sta 10+00.00
Course from 113 to 112 S 25° 52' 05.32" W Dist 91.9366
Point 112 N 1,184,811.0858 E 2,023,337.9085 Sta 10+91.94
Course from 112 to 111 S 41° 53' 05.24" W Dist 301.6960
Point 111 N 1,184,586.4765 E 2,023,136.4857 Sta 13+93.63
Course from 111 to 110 S 29° 47' 36.87" W Dist 1,185.3229
Point 110 N 1,183,557.8282 E 2,022,547.5264 Sta 25+78.96
==========
Ending chain EX-FLINT description

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Documented by CHRISTOPHER E. CARLSEN
No. 22780
4/11/2023
STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO.

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H:\Projects\25i5776\25i5776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\2515776 PLN SHT5A-5i.dgn
1/10/2023

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	5F

SURVEY CONTROL POINTS

SPECIAL NOTES:
A)THIS IS AN ENGLISH PROJECT.
B)PROJECT MAPPING SCALE : 1"=50'
C)ALL BASELINE POINTS ARE #5 REBAR UNLESS OTHERWISE NOTED.
D)ALL BASELINE POINTS ARE SET TO BENCHMARK SPECIFICATIONS UNLESS OTHERWISE NOTED.

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DATUM DESCRIPTION :

THE COORDINATE SYSTEM FOR THIS PROJECT IS BASED ON THE NAD 1983/2007 SOUTH CAROLINA STATE PLANE COORDINATES FOR BASELINE POINT "BL-8" (ESP-4004) WITH A NORTHING OF 1178389.024', EASTING OF 2019315.973'. THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 1.00007073. ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES. THE VERTICAL DATUM FOR THIS PROJECT IS BASED ON USGS MONUMENT "45 EGB" WITH A ELEVATION OF 620.23'(NAVD 88).

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-BL-

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AZ4-2 (AZ4-2) N 1172111.9930 E 2018536.7820 ELEV 612.71 STA 5+00.00

Course from AZ4-2 to AZ4-1 N 08^29'23.61" E Dist 545.64'

AZ4-1 (AZ4-1) N 1172651.6570 E 2018617.3380 ELEV 618.30 STA 10+45.64
=BY Sta 9+66.07

Course from AZ4-1 to 1 N 05^35'30.61" E Dist 673.59'

1 (BL-1) N 1173322.0462 E 2018682.9738 ELEV 610.19 STA 17+19.24

Course from 1 to 2 N 07^57'59.84" E Dist 716.62'

2 (BL-2) N 1174031.7516 E 2018782.2948 ELEV 602.78 STA 24+35.86
=BY1 Sta 5+00.00

Course from 2 to 3 N 06^05'31.20" E Dist 804.64'

3 (BL-3) N 1174831.8449 E 2018867.6871 ELEV 590.95 STA 32+40.50
=BY2 Sta 5+00.00

Course from 3 to 4 N 07^00'52.47" E Dist 280.86'

4 (BL-4) N 1175110.6024 E 2018901.9862 ELEV 588.04 STA 35+21.36
=BY3 Sta 5+00.00

Course from 4 to 5 N 06^34'54.78" E Dist 588.84'

5 (BL-5) N 1175695.5655 E 2018969.4813 ELEV 593.41 STA 41+10.20
=BY4 Sta 9+39.10

Course from 5 to 6 N 06^53'24.05" E Dist 1044.83'

6 (BL-6) N 1176732.8486 E 2019094.8229 ELEV 623.32 STA 51+55.03

Course from 6 to 7 N 07^21'44.36" E Dist 744.83'

7 (BL-7) N 1177471.5380 E 2019190.2680 ELEV 640.85 STA 58+99.86
=BY5 Sta 14+34.09

Course from 7 to 8 N 07^48'5.53" E Dist 926.06'

8 (BL-8) N 1178389.0240 E 2019315.9730 ELEV 637.09 STA 68+25.92

Course from 8 to 9 N 06^54'32.22" E Dist 353.78'

9 (BL-9) N 1178740.2353 E 2019358.5299 ELEV 642.96 STA 71+79.70
=BY6 Sta 8+54.48

Course from 9 to 10 N 00^46'47.23" E Dist 836.14'

10 (BL-10) N 1179576.3009 E 2019369.9093 ELEV 648.96 STA 80+15.84
=BY7 Sta 8+60.79

Course from 10 to 11 N 17^09'51.17" E Dist 651.58'

11 (BL-11) N 1180198.8632 E 2019562.1985 ELEV 646.02 STA 86+67.42
=BY8 Sta 9+92.07

Course from 11 to 12 N 05^06'26.44" E Dist 792.59'

12 (BL-12) N 1180988.3073 E 2019632.7565 ELEV 661.92 STA 94+60.01

Course from 12 to 13 N 09^24'46.95" E Dist 1021.28'

13 (BL-13) N 1181995.8346 E 2019799.7872 ELEV 669.91 STA 104+81.29
=BY9 Sta 10+11.79

Course from 13 to 14 N 12^29'53.54" E Dist 514.23'

14 (BL-14) N 1182497.8742 E 2019911.0702 ELEV 666.77 STA 109+95.52
=BY10 Sta 5+00.00

Course from 14 to 16 N 31^52'27.50" E Dist 1134.17'

16 (BL-16) N 1183461.0243 E 2020509.9792 ELEV 648.53 STA 121+29.69

Course from 16 to 17 N 39^47'23.02" E Dist 674.53'

17 (BL-17) N 1183979.3343 E 2020941.6614 ELEV 638.71 STA 128+04.22

Course from 17 to 18 N 73^56'8.56" E Dist 606.78'

18 (BL-18) N 1184147.2389 E 2021524.7443 ELEV 619.23 STA 134+11.00

Course from 18 to 19 N 75^14'30.35" E Dist 680.88'

19 (BL-19) N 1184320.6870 E 2022183.1619 ELEV 598.80 STA 140+91.88

Course from 19 to 20 N 76^43'13.06" E Dist 920.12'

20 (BL-20) N 1184532.0428 E 2023078.6766 ELEV 617.86 STA 150+12.00
=BY11 Sta 10+88.04

Course from 20 to 21 N 71^51'11.69" E Dist 378.06'

21 (BL-21) N 1184649.7908 E 2023437.9341 ELEV 619.56 STA 153+90.06
=BY12 Sta 5+00.00

Course from 21 to 22 N 79^00'8.53" E Dist 392.28'

22 (BL-22) N 1184724.6251 E 2023823.0082 ELEV 620.62 STA 157+82.34
=BY13 Sta 5+00.00

Course from 22 to 23 N 80^15'45.29" E Dist 437.48'

23 (BL-23) N 1184798.6179 E 2024254.1882 ELEV 623.02 STA 162+19.82

Course from 23 to 24 N 88^24'49.17" E Dist 404.90'

24 (BL-24) N 1184809.8270 E 2024658.9370 ELEV 618.53 STA 166+24.73

Course from 24 to 25 N 85^39'42.75" E Dist 564.71'

25 (BL-25) N 1184852.5430 E 2025222.0300 ELEV 608.14 STA 171+89.44

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-BY-

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100 (BL-100) N 1172823.1025 E 2019050.7320 ELEV 623.69 STA 5+00.00

Course from 100 to AZ4-1 S 68^25'0.62" W Dist 466.07'

AZ4-1 (AZ4-1) N 1172651.6570 E 2018617.3380 ELEV 618.30 STA 9+66.07
=BL Sta 10+45.64

Course from AZ4-1 to 101 N 79^15'46.41" W Dist 410.73'

101 (BL-101) N 1172728.1778 E 2018213.7959 ELEV 604.35 STA 13+76.81

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-BY1-

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2 (BL-2) N 1174031.7516 E 2018782.2948 ELEV 602.78 STA 5+00.00
=BL Sta 24+35.86

Course from 2 to 102 N 05^00'6.14" W Dist 495.42'

102 (BL-102) N 1174525.2898 E 2018739.1010 ELEV 594.68 STA 9+95.42

Course from 102 to 103 S 85^09'25.84" W Dist 573.36'

103 (BL-103) N 1174476.8850 E 2018167.7848 ELEV 590.83 STA 15+68.79

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-BY2-

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3 (BL-3) N 1174831.8449 E 2018867.6871 ELEV 590.95 STA 5+00.00
=BL Sta 32+40.50

Course from 3 to 104 N 78^09'8.19" E Dist 333.24'

104 (BL-104) N 1174900.2636 E 2019193.8316 ELEV 594.24 STA 8+33.24

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-BY3-

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4 (BL-4) N 1175110.6024 E 2018901.9862 ELEV 588.04 STA 5+00.00
=BL Sta 35+21.36

Course from 4 to 105 N 45^43'5.46" E Dist 459.00'

105 (BL-105) N 1175431.0735 E 2019230.5937 ELEV 599.32 STA 9+59.00

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-BY4-

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106 (BL-106) N 1175960.7814 E 2019319.4423 ELEV 585.95 STA 5+00.00

Course from 106 to 5 S 52^50'36.76" W Dist 439.10'

5 (BL-5) N 1175695.5655 E 2018969.4813 ELEV 593.41 STA 9+39.10
=BL Sta 41+10.20

Course from 5 to 107 S 34^14'38.79" W Dist 631.21'

107 (BL-107) N 1175173.7773 E 2018614.2869 ELEV 574.09 STA 15+70.31

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-BY5-

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108 (BL-108) N 1177267.7673 E 2020101.8576 ELEV 632.93 STA 5+00.00

Course from 108 to 7 N 77^23'58.65" W Dist 934.09'

7 (BL-7) N 1177471.5380 E 2019190.2680 ELEV 640.85 STA 14+34.09
=BL Sta 58+99.86

Course from 7 to 109 S 30^49'12.34" W Dist 325.64'

109 (BL-109) N 1177191.8820 E 2019023.4266 ELEV 640.11 STA 17+59.73

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-BY6-

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110 (BL-110) N 1178789.3986 E 2019709.5821 ELEV 652.65 STA 5+00.00

Course from 110 to 9 S 82^01'40.19" W Dist 354.48'

9 (BL-9) N 1178740.2353 E 2019358.5299 ELEV 642.96 STA 8+54.48
=BL Sta 71+79.70

Course from 9 to 111 N 53^00'50.81" W Dist 434.48'

111 (BL-111) N 1179001.6272 E 2019011.4733 ELEV 654.06 STA 12+88.96

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-BY7-

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112 (BL-112) N 1179455.6363 E 2019709.9208 ELEV 633.72 STA 5+00.00

Course from 112 to 10 N 70^27'39.77" W Dist 360.79'

10 (BL-10) N 1179576.3009 E 2019369.9093 ELEV 648.96 STA 8+60.79
=BL Sta 80+15.84

Course from 10 to 113 N 87^09'7.77" W Dist 346.54'

113 (BL-113) N 1179593.5184 E 2019023.7954 ELEV 642.59 STA 12+07.33

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-BY8-

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114 (BL-114) N 1180151.0418 E 2020051.9434 ELEV 636.44 STA 5+00.00

Course from 114 to 11 N 84^25'22.81" W Dist 492.07'

11 (BL-11) N 1180198.8632 E 2019562.1985 ELEV 646.02 STA 9+92.07
=BL Sta 86+67.42

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-BY9-

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115 (BL-115) N 1181992.5521 E 2020311.5701 ELEV 670.76 STA 5+00.00

Course from 115 to 13 N 89^37'57.07" W Dist 511.79'

13 (BL-13) N 1181995.8346 E 2019799.7872 ELEV 669.91 STA 10+11.79
=BL Sta 104+81.29

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-BY10-

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14 (BL-14) N 1182497.8742 E 2019911.0702 ELEV 666.77 STA 5+00.00
=BL Sta 109+95.52

Course from 14 to 15 N 10^57'8.52" E Dist 1262.08'

15 (BL-15) N 1183736.9650 E 2020150.8562 ELEV 651.05 STA 17+62.08

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-BY11-

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116 (BL-116) N 1184003.8548 E 2022820.2118 ELEV 602.36 STA 5+00.00

Course from 116 to 20 N 26^04'28.07" E Dist 588.04'

20 (BL-20) N 1184532.0428 E 2023078.6766 ELEV 617.86 STA 10+88.04
=BL Sta 150+12.00

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-BY12-

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21 (BL-21) N 1184649.7908 E 2023437.9341 ELEV 619.56 STA 5+00.00
=BL Sta 153+90.06

Course from 21 to 117 N 40^13'32.31" W Dist 561.82'

117 (BL-117) N 1185078.7450 E 2023075.1105 ELEV 620.28 STA 10+61.82

Course from 117 to 118 N 68^29'30.27" W Dist 730.02

118 (BL-118) N 1185346.3972 E 2022395.9229 ELEV 623.24 STA 17+91.84

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-BY13-

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22 (BL-22) 1184724.6251 E 2023823.0082 ELEV 620.62 STA 5+00.00
=BL Sta 157+82.34

Course from 22 to 119 N 03^04'10.56" E Dist 413.13'

119 (BL-119) N 1185137.1661 E 2023845.1311 ELEV 614.35 STA 9+13.13

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SURVEY BENCHMARKS

TBM 21A ELEVATION = 622.03' N 1172810 E 2018305 BY STA 13+02 97' RIGHT
NAIL SET IN 20" OAK

TBM 21B ELEVATION = 614.99' N 1173549 E 2018844 BL STA 19+66 128' RIGHT
NAIL SET IN POWER POLE

TBM 21C ELEVATION = 593.64' N 1174471 E 2018909 BL STA 28+86 80' RIGHT
RR SPIKE SET IN 18" PINE

TBM 21D ELEVATION = 649.45' N 1177549 E 2019043 BL STA 59+57 156' LEFT
RR SPIKE SET IN 12" PINE

TBM 21E ELEVATION = 639.42' N 1178447 E 2019155 BL STA 68+64 167' LEFT
NAIL SET IN 30" OAK

TBM 21F ELEVATION = 647.18' N 1179525 E 2019117 BY7 STA 11+11 64' LEFT
NAIL SET IN 15" PINE

TBM 21G ELEVATION = 662.17' N 1181045 E 2019443 BL STA 94+85 197' LEFT
NAIL SET IN 12" DOGWOOD

TBM 21H ELEVATION = 660.95' N 1181905 E 2019937 BL STA 104+14 151' RIGHT
NAIL SET IN 12" ELM

TBM 21I ELEVATION = 664.69' N 1182534 E 2019658 BL STA 109+76 255' LEFT
NAIL SET IN 21" PINE

TBM 21J ELEVATION = 647.00' N 1183725 E 2019990 BY10 STA 17+19 155' RIGHT
NAIL SET IN 6" SOURWOOD

TBM 21A ELEVATION = 622.03' N 1172810 E 2018305 BY STA 13+02 97' RIGHT
NAIL SET IN 20" OAK

TBM 51A ELEVATION = 638.10' N 1183396 E 2020793 BL STA 122+61 259' RIGHT
NAIL SET IN 15" GUM

TBM 51B ELEVATION = 646.75' N 1184060 E 2020876 BL STA 128+04 104' LEFT
NAILSET IN 15" PINE

TBM 51C ELEVATION = 624.82' N 1184259 E 2021433 BL STA 133+54 133' LEFT
NAIL SET IN 10" ELM

TBM 51D ELEVATION = 596.47 N 1184202 E 2022162 BL STA 140+41 109' RIGHT
NAIL SET IN 15" POPLAR

TBM 51E ELEVATION = 612.92' N 1184341 E 2022846 BL STA 147+42 132' RIGHT
NAIL SET IN 18" CEDAR

TBM 51F ELEVATION = 614.23' N 1184931 E 2023771 BY13 STA 7+03 63' LEFT
NAIL SET IN 28" OAK

TBM 51G ELEVATION = 617.71' N 1184652 E 2024332 BL STA 162+93 149' RIGHT
MASON NAIL SET IN ASPHALT AT SW CORNEROF TRAFFIC ISLAND

BM 45 EGB ELEVATION = 620.23' N 1184887 E 2024514 BL STA 164+82 81' LEFT
USGS MONUMENT "45 EGB"

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

DocuSigned by: 502C2E17064F405...
SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 22780 CHRISTOPHER E. CARLSTEN
1/11/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
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1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO. 5C

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1/10/2023

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US 21 ROADWAY STATION/OFFSET DATA LEFT

STATION - OFFSET															
US 21 LEFT		75+25.07 -- 41.61	Tel. Pedestal	35+13.59 -- 27.30	Endang. Plant Bound.	US 21 RIGHT		97+51.52 -- 84.89	TV Pedestal	66+32.11 -- 42.39	"Bldg., Wall, Ramp, Pier, Dock"	50+23.01 -- 45.92	SS Forced Main	25+95.76 -- 34.49	Water Valve
133+71.74 -- 73.67	Exist. Iron Pin	72+75.91 -- 40.10	Pow. w/ Tel. Pole	35+07.15 -- 25.08	Endang. Plant Bound.	134+59.07 -- 76.82	Exist. Iron Pin	96+91.63 -- 35.31	Exist. Iron Pin	66+30.55 -- 25.38	SS Forced Main	50+04.69 -- 47.11	SS Forced Main	25+71.66 -- 69.39	Power Pole
133+71.70 -- 73.70	Exist. Iron Pin	72+67.05 -- 49.81	Power Pole	35+04.42 -- 25.17	Endang. Plant Bound.	135+47.86 -- 80.68	SS Manhole	96+44.45 -- 25.82	Valve	66+17.35 -- 41.89	"Bldg., Wall, Ramp, Pier, Dock"	50+04.26 -- 47.09	SS Forced Main	23+69.85 -- 74.14	SS Clean-Out
133+71.70 -- 73.70	Exist. Iron Pin	72+67.05 -- 20.08	Water Valve	34+99.54 -- 28.97	Endang. Plant Bound.	134+59.07 -- 76.82	Exist. Iron Pin	96+15.99 -- 83.91	SS Manhole	66+03.61 -- 41.19	"Bldg., Wall, Ramp, Pier, Dock"	49+63.42 -- 72.26	Tel. Pedestal	23+40.81 -- 51.41	SS Manhole
133+16.99 -- 74.88	Exist. Iron Pin	66+86.97 -- 46.93	Head & End Walls	34+96.81 -- 25.16	Endang. Plant Bound.	134+58.91 -- 76.91	Exist. Iron Pin	95+92.06 -- 62.65	Power Transformer	65+74.22 -- 82.22	Power Pole	49+57.27 -- 70.45	Power Transformer	23+23.44 -- 124.11	Head & End Walls
133+16.97 -- 74.87	Exist. Iron Pin	66+86.58 -- 47.33	Head & End Walls	34+54.44 -- 124.59	Wetland Boundary	132+47.11 -- 66.03	SS Manhole	95+85.95 -- 81.78	Water Meter	65+66.46 -- 27.40	Water Meter	49+50.50 -- 70.61	TV Pedestal	23+23.33 -- 124.41	Head & End Walls
132+66.13 -- 72.97	TV Pedestal	66+85.73 -- 45.73	Head & End Walls	34+45.79 -- 114.08	Wetland Boundary	132+43.49 -- 72.63	Fire Hydrant	95+84.72 -- 82.01	Water Meter	65+24.08 -- 25.26	U/G TV Cable W/ Hand Hole	49+48.94 -- 123.65	"Bldg., Wall, Ramp, Pier, Dock"	23+23.13 -- 124.38	Head & End Walls
132+65.90 -- 74.05	Exist. Iron Pin	66+85.40 -- 46.16	Head & End Walls	34+26.35 -- 102.47	Wetland Boundary	132+41.31 -- 72.58	Water Valve	95+41.55 -- 80.16	Water Meter	64+26.69 -- 84.63	Power Pole	49+47.71 -- 75.18	Power Transformer	23+19.10 -- 124.23	Head & End Walls
132+64.91 -- 74.23	Tel. Pedestal	66+81.34 -- 46.12	Head & End Walls	34+24.14 -- 94.52	Wetland Boundary	132+38.98 -- 70.07	Water Valve	95+40.22 -- 80.18	Water Meter	62+77.02 -- 31.07	SS Forced Main	49+46.07 -- 116.09	"Bldg., Wall, Ramp, Pier, Dock"	23+19.03 -- 124.62	Head & End Walls
132+64.30 -- 73.15	Pow. w/ Tel. Pole	66+81.08 -- 45.68	Head & End Walls	34+17.87 -- 61.13	Wetland Boundary	132+34.09 -- 73.23	Water Meter	95+08.02 -- 69.98	Tel. Manhole	62+76.68 -- 31.11	SS Forced Main	49+46.01 -- 80.39	"Bldg., Wall, Ramp, Pier, Dock"	23+06.93 -- 60.58	Power Pole
131+93.84 -- 74.12	Exist. Iron Pin	66+80.17 -- 47.30	Head & End Walls	34+16.69 -- 58.72	Head & End Walls	132+29.48 -- 72.88	Water Meter	94+97.41 -- 78.24	Water Meter	62+67.40 -- 117.33	SS Forced Main	49+47.98 -- 80.48	"Bldg., Wall, Ramp, Pier, Dock"	23+05.86 -- 68.46	Power Pole
131+93.83 -- 74.09	Property Corner	66+79.81 -- 46.95	Head & End Walls	34+16.67 -- 59.44	Head & End Walls	132+24.55 -- 75.71	Exist. Iron Pin	94+95.96 -- 78.10	Water Meter	62+40.69 -- 70.24	"Sign, Flag Pole, Guard Post"	47+96.87 -- 70.46	Power Transformer	21+97.95 -- 68.07	Power Pole
131+17.77 -- 74.61	Pow. w/ Tel. Pole	66+46.08 -- 51.90	SS Manhole	34+16.54 -- 60.16	Head & End Walls	132+24.54 -- 75.66	Exist. Iron Pin	94+53.59 -- 77.54	Water Meter	62+37.63 -- 58.23	"Sign, Flag Pole, Guard Post"	47+95.91 -- 123.73	"Bldg., Wall, Ramp, Pier, Dock"	21+78.94 -- 29.48	Water Valve
130+67.60 -- 72.48	Water Meter	66+46.06 -- 49.53	SS Forced Main	34+15.16 -- 60.63	Head & End Walls	131+74.92 -- 74.89	Power Pole	94+52.33 -- 77.63	Water Meter	62+37.61 -- 85.65	"Sign, Flag Pole, Guard Post"	47+91.65 -- 67.64	TV Pedestal	21+73.06 -- 58.01	Power Pole
130+43.85 -- 74.56	Exist. Iron Pin	65+99.84 -- 27.29	Endang. Plant Bound.	34+12.44 -- 60.10	"Bridge Deck,Tunnel,Box Culv."	131+55.90 -- 75.95	Exist. Iron Pin	94+05.93 -- 77.32	Water Meter	62+34.30 -- 58.96	"Sign, Flag Pole, Guard Post"	47+90.00 -- 70.73	Tel. Pedestal	21+15.14 -- 51.29	SS Manhole
130+43.84 -- 74.54	Exist. Iron Pin	65+98.83 -- 26.09	Endang. Plant Bound.	34+12.16 -- 57.83	Wetland Boundary	131+55.90 -- 75.94	Exist. Iron Pin	93+87.78 -- 77.96	Pole	62+30.84 -- 90.80	SS Forced Main	47+86.65 -- 67.00	U/G TV Cable W/ Hand Hole	20+34.69 -- 66.17	Power Pole
130+06.27 -- 75.26	Pow. w/ Tel. Pole	65+96.83 -- 25.72	Endang. Plant Bound.	34+10.13 -- 59.61	Head & End Walls	131+03.51 -- 72.09	Power Pole	93+05.86 -- 54.81	Power Pole	62+25.82 -- 31.13	SS Forced Main	47+24.12 -- 50.52	SS Forced Main	20+26.58 -- 39.23	Tel. Pedestal
129+63.58 -- 44.26	Water Valve	65+94.70 -- 61.27	Endang. Plant Bound.	34+10.06 -- 61.27	Head & End Walls	131+03.15 -- 68.90	Tel. Pedestal	93+00.15 -- 68.10	Tel. Manhole	62+00.31 -- 89.99	SS Forced Main	46+55.32 -- 51.79	SS Forced Main	19+16.34 -- 64.83	Power Pole
129+59.40 -- 115.92	Water Valve	65+94.22 -- 24.76	Endang. Plant Bound.	34+09.69 -- 59.50	Head & End Walls	131+02.93 -- 67.13	TV Pedestal	92+98.80 -- 81.81	Water Meter	61+99.52 -- 30.37	SS Forced Main	46+11.37 -- 51.70	SS Forced Main	18+60.66 -- 51.12	SS Manhole
129+44.94 -- 109.68	Water Meter	65+92.84 -- 28.32	Endang. Plant Bound.	34+09.55 -- 60.33	Head & End Walls	130+64.59 -- 70.24	Water Meter	92+95.58 -- 80.97	Water Meter	61+98.90 -- 35.19	SS Manhole	45+73.31 -- 51.70	SS Forced Main	18+45.86 -- 33.44	Water Meter
128+93.90 -- 75.14	Exist. Iron Pin	65+90.30 -- 27.05	Endang. Plant Bound.	34+09.06 -- 59.46	Head & End Walls	130+58.62 -- 61.96	Water Valve	92+61.37 -- 79.75	Water Meter	61+98.85 -- 35.15	SS Manhole	45+66.78 -- 37.34	Pole	18+38.24 -- 63.37	Power Pole
128+93.85 -- 75.14	Exist. Iron Pin	65+89.79 -- 29.74	Endang. Plant Bound.	34+09.01 -- 58.65	Head & End Walls	130+55.92 -- 73.39	Power Pole	92+59.03 -- 79.92	Water Meter	61+98.58 -- 40.86	SS Forced Main	45+58.95 -- 90.44	SS Forced Main	18+12.64 -- 30.40	Fire Hydrant
128+93.74 -- 75.15	Exist. Iron Pin	65+88.16 -- 29.72	Endang. Plant Bound.	32+52.27 -- 51.49	Exist. Iron Pin	130+07.92 -- 75.06	Power Pole	92+29.63 -- 80.22	SS Manhole	61+98.55 -- 39.50	SS Forced Main	45+44.87 -- 37.09	Tel. Pedestal	15+70.92 -- 51.48	Water Meter
128+93.20 -- 76.79	Pow. w/ Tel. Pole	65+87.81 -- 30.68	Endang. Plant Bound.	32+46.92 -- 61.58	Pow. w/ Tel. Pole	129+99.58 -- 75.21	Exist. Iron Pin	91+73.38 -- 120.98	Water Meter	61+91.08 -- 47.78	SS Clean-Out	45+42.72 -- 53.38	SS Forced Main	15+63.29 -- 58.92	Power Pole
128+81.01 -- 122.51	Pole	65+86.44 -- 31.38	Endang. Plant Bound.	32+45.96 -- 55.38	Tel. Pedestal	129+99.53 -- 75.32	Exist. Iron Pin	91+72.71 -- 114.12	Tel. Manhole	61+85.79 -- 36.37	Pole	45+41.70 -- 37.23	Power Pole	15+49.27 -- 73.94	Tel. Pedestal
128+76.13 -- 97.05	"Sign, Flag Pole, Guard Post"	65+82.48 -- 26.56	Endang. Plant Bound.	32+43.29 -- 49.18	TV Pedestal	129+83.82 -- 75.94	Power Pole	91+71.00 -- 122.90	Water Meter	61+65.20 -- 76.39	SS Forced Main	45+38.79 -- 58.97	SS Forced Main	15+49.09 -- 74.82	Power Transformer
128+75.86 -- 89.41	"Sign, Flag Pole, Guard Post"	65+79.70 -- 27.22	Endang. Plant Bound.	31+76.31 -- 83.15	Pole	129+22.72 -- 121.67	Fence Line	91+65.84 -- 105.40	Power Transformer	61+54.24 -- 107.37	Fence Line	45+29.80 -- 112.57	Exist. Iron Pin	15+14.23 -- 63.99	Traffic Signal Box
128+20.92 -- 77.08	Pole	65+79.13 -- 27.44	Endang. Plant Bound.	31+74.55 -- 120.59	Pole	129+21.78 -- 75.23	Exist. Iron Pin	91+61.87 -- 52.01	Exist. Iron Pin	61+47.39 -- 96.46	SS Forced Main	45+25.65 -- 115.13	Water Meter	15+13.29 -- 56.70	U/G Power Cable W/ Hand Hole
127+42.19 -- 88.09	Pole	65+79.04 -- 28.60	Endang. Plant Bound.	31+71.45 -- 31.24	Water Valve	129+21.72 -- 75.26	Exist. Iron Pin	91+25.17 -- 65.39	Pole	61+33.58 -- 87.78	SS Forced Main	45+22.07 -- 116.79	Tel. Pedestal	15+12.69 -- 53.64	Pole
126+98.76 -- 75.00	Pow. w/ Tel. Pole	65+72.06 -- 28.20	Water Valve	30+17.41 -- 31.62	Pole	129+21.03 -- 123.89	Power Pole	91+08.08 -- 122.41	Power Transformer	61+27.47 -- 93.12	Fence Line	45+21.23 -- 117.06	Pow. w/ Tel. Pole	15+10.99 -- 82.84	R / W Monument
126+93.75 -- 75.57	Exist. Iron Pin	65+22.87 -- 30.79	Fire Hydrant	29+75.05 -- 50.97	Pole	128+99.03 -- 124.37	Power Pole	89+07.93 -- 61.07	U/G TV Cable W/ Hand Hole	61+11.33 -- 84.65	Fence Line	44+82.58 -- 63.40	Pole	14+16.04 -- 83.02	Power Pole
126+93.75 -- 75.55	Exist. Iron Pin	61+81.15 -- 22.40	Valve	28+77.60 -- 48.59	Tel. Pedestal	128+65.68 -- 75.11	Exist. Iron Pin	89+01.25 -- 60.23	Pole	61+06.92 -- 53.98	Power Pole	44+31.64 -- 93.64	"Bldg., Wall, Ramp, Pier, Dock"	14+12.60 -- 70.16	Water Valve
126+59.72 -- 84.2	Valve	61+81.05 -- 24.66	U/G Power Cable W/ Hand Hole	28+77.47 -- 49.40	TV Pedestal	128+40.44 -- 60.89	Water Meter	88+94.01 -- 122.34	Tel. Pedestal	61+06.77 -- 53.84	Power Pole	44+08.06 -- 111.19	"Bldg., Wall, Ramp, Pier, Dock"	14+12.38 -- 71.21	Water Valve
126+57.43 -- 55.74	Tel Hand Hole	61+02.57 -- 35.63	Pole	28+68.69 -- 43.83	Area Outline	128+32.76 -- 59.74	Water Valve	88+83.12 -- 92.09	Tel. Pedestal	61+05.89 -- 50.74	Tel. Pedestal	43+87.69 -- 99.10	Fence Line	13+90.42 -- 49.02	Pole
125+19.26 -- 74.33	Pow. w/ Tel. Pole	59+98.14 -- 48.20	U/G Power Cable W/ Hand Hole	28+67.85 -- 34.14	Area Outline	127+83.60 -- 62.45	Tel Hand Hole	88+76.45 -- 52.18	Exist. Iron Pin	61+05.65 -- 53.16	"Sign, Flag Pole, Guard Post"	43+79.61 -- 17.72	Valve	13+40.76 -- 55.56	Power Pole
125+18.79 -- 76.4	Exist. Iron Pin	59+94.86 -- 45.91	Pole	28+64.03 -- 60.88	Exist. Iron Pin	127+81.87 -- 70.14	Exist. Iron Pin	87+49.33 -- 46.98	Tel. Manhole	61+05.38 -- 51.29	TV Pedestal	43+75.75 -- 124.01	Fence Line	13+39.63 -- 55.16	Tel. Pedestal
124+93.00 -- 76.39	Exist. Iron Pin	59+75.20 -- 30.59	Water Valve	28+63.93 -- 61.27	Area Outline	127+81.07 -- 77.88	"Sign, Flag Pole, Guard Post"	87+48.62 -- 55.74	Tel. Pedestal	61+04.29 -- 47.07	"Sign, Flag Pole, Guard Post"	42+49.45 -- 112.41	Wetland Boundary	13+39.42 -- 55.71	TV Pedestal
123+87.00 -- 35.68	Water Valve	59+59.28 -- 36.37	Water Valve	28+58.64 -- 46.49	Area Outline	127+00.58 -- 91.02	"Sign, Flag Pole, Guard Post"	87+43.84 -- 55.54	Tel Hand Hole	61+02.89 -- 52.55	TV Pedestal	42+40.72 -- 87.12	Wetland Boundary	13+24.21 -- 115.11	Power Pole
123+86.99 -- 39.52	Fire Hydrant	59+37.23 -- 72.42	Pow. w/ Tel. Pole	28+56.01 -- 33.47	Area Outline	126+14.56 -- 72.83	Water Meter	87+16.79 -- 52.80	Power Pole	61+02.71 -- 53.07	Tel. Pedestal	42+36.32 -- 78.35	Wetland Boundary	13+19.15 -- 55.32	Power Pole
123+31.38 -- 99.09	Exist. Iron Pin	59+34.67 -- 71.68	Tel. Pedestal	28+54.10 -- 41.88	Area Outline	126+01.21 -- 116.18	Pole	87+05.28 -- 39.54	U/G Power Cable W/ Hand Hole	60+98.29 -- 61.78	SS Forced Main	42+21.60 -- 70.50	Wetland Boundary	12+18.40 -- 88.33	Power Pole
116+90.14 -- 44.66	Fire Hydrant	59+33.66 -- 28.55	TV Pedestal	28+28.04 -- 43.99	"Sign, Flag Pole, Guard Post"	125+96.72 -- 95.15	Pole	86+94.58 -- 59.49	SS Manhole	60+89.25 -- 55.59	SS Forced Main	42+18.07 -- 37.61	Wetland Boundary	11+97.77 -- 50.77	Fire Hydrant
116+89.92 -- 42.88	Water Valve	59+18.69 -- 30.38	Water Valve	27+71.85 -- 64.60	"Sign, Flag Pole, Guard Post"	125+90.36 -- 73.33	TV Pedestal	86+35.57 -- 51.76	Exist. Iron Pin	60+84.05 -- 53.81	SS Forced Main	42+08.85 -- 72.51	Wetland Boundary	11+27.97 -- 46.64	Tel. Pedestal
116+75.52 -- 40.81	Water Valve	57+32.07 -- 35.61	Endang. Plant Bound.	27+67.68 -- 32.46	Water Valve	125+87.82 -- 73.43	Tel. Pole	86+30.35 -- 68.94	"Sign, Flag Pole, Guard Post"	60+79.22 -- 53.13	SS Forced Main	41+83.89 -- 62.94	Wetland Boundary	11+27.96 -- 47.53	TV Pedestal
116+59.91 -- 100.79	Exist. Iron Pin	57+11.59 -- 31.63	Endang. Plant Bound.	27+41.01 -- 39.55	Area Outline	125+87.79 -- 71.59	Tel. Pedestal	86+30.18 -- 76.81	"Sign, Flag Pole, Guard Post"	60+70.02 -- 39.59	Pole	41+59.69 -- 47.06	Head & End Walls	11+25.64 -- 56.95	Exist. Iron Pin
116+43.99 -- 34.77	Pole	56+86.71 -- 34.77	Endang. Plant Bound.	27+40.01 -- 32.24	Area Outline	125+87.32 -- 77.73	Water Meter	86+29.82 -- 68.89	"Sign, Flag Pole, Guard Post"	60+69.83 -- 39.46	Exist. Iron Pin	41+58.18 -- 59.30	Wetland Boundary	11+25.51 -- 47.47	Power Pole
115+35.17 -- 110.03	Power Pole	56+82.21 -- 30.07	Endang. Plant Bound.	27+37.41 -- 44.18	Area Outline	124+71.23 -- 78.03	"Sign, Flag Pole, Guard Post"	86+29.14 -- 63.51	"Sign, Flag Pole, Guard Post"	60+63.63 -- 40.94	U/G Power Cable W/ Hand Hole	41+54.22 -- 43.45	Head & End Walls	11+23.62 -- 71.64	Exist. Iron Pin
115+04.66 -- 42.21	Pole	55+38.86 -- 38.90	Head & End Walls	27+35.73 -- 27.67	Area Outline	124+14.60 -- 72.56	Water Meter	86+28.98 -- 76.88	"Sign, Flag Pole, Guard Post"	60+32.77 -- 84.45	Fence Line	41+54.16 -- 43.20	Head & End Walls		
112+94.70 -- 52.46	Fire Hydrant	55+38.41 -- 39.70	Head & End Walls	27+30.67 -- 46.30	Area Outline	124+13.17 -- 72.26	Water Meter	86+28.86 -- 82.23	"Sign, Flag Pole, Guard Post"	60+31.53 -- 52.71	SS Forced Main	41+54.10 -- 43.95	Head & End Walls		
112+92.63 -- 45.49	Water Meter	55+36.86 -- 39.08	Head & End Walls	27+27.05 -- 51.88	Area Outline	123+43.21 -- 51.88	SS Manhole	86+25.38 -- 81.59	Pole	60+31.12 -- 54.22	SS Forced Main	41+53.52 -- 43.47	Head & End Walls		
112+90.06 -- 52.45	Water Valve	55+33.03 -- 38.51	Head & End Walls	27+21.16 -- 60.92	Exist. Iron Pin	122+50.60 -- 102.49	Power Pole	86+25.26 -- 63.53	"Sign, Flag Pole, Guard Post"	60+01.76 -- 84.45	Fence Line	41+51.24 -- 43.88	Wetland Boundary		
112+89.15 -- 39.09	Water Valve	54+49.52 -- 30.85	Endang. Plant Bound.	26+75.30 -- 49.28	TV Pedestal	122+49.86 -- 73.75	Exist. Iron Pin	86+25.09 -- 68.77	"Sign, Flag Pole, Guard Post"	60+01.37 -- 122.08	SS Forced Main	41+50.44 -- 43.42	"Bridge Deck,Tunnel,Box Culv."		
112+73.61 -- 1.99	"Sign, Flag Pole, Guard Post"	53+80.28 -- 36.50	TV Pedestal	26+70.36 -- 44.85	Tel. Pedestal	121+65.78 -- 88.75	Pole	86+24.99 -- 82.12	"Sign, Flag Pole, Guard Post"	60+01.08 -- 53.06	SS Forced Main	41+50.42 -- 43.36	"Bridge Deck,Tunnel,Box Culv."		
112+63.20 -- 123.62	Exist. Iron Pin	52+84.22 -- 39.93	Endang. Plant Bound.	26+30.35 -- 50.00	Water Valve	120+72.89 -- 90.05	Pole	86+24.97 -- 76.68	"Sign, Flag Pole, Guard Post"	59+91.84 -- 50.59	Water Valve	41+49.98 -- 52.35	Wetland Boundary		
112+25.96 -- 89.26	Pow. w/ Tel. Pole	52+73.53 -- 29.74	Endang. Plant Bound.	26+13.70 -- 36.34	Water Valve	119+45.39 -- 113.82	Power Pole	86+23.84 -- 68.83	"Sign, Flag Pole, Guard Post"	59+66.23 -- 93.60	Fence Line	41+46.07 -- 49.52	Head & End Walls		
112+25.96 -- 88.06	Tel. Pedestal	52+72.36 -- 31.53	Endang. Plant Bound.	26+13.62 -- 38.73	Fire Hydrant	119+43.14 -- 52.83	SS Manhole	86+23.63 -- 76.66	"Sign, Flag Pole, Guard Post"	59+66.16 -- 84.29	Fence Line	41+45.89 -- 43.47	Head & End Walls		
112+24.88 -- 79.31	Pow. w/ Tel. Pole	52+72.31 -- 32.24	Endang. Plant Bound.	23+61.78 -- 54.73	Head & End Walls	119+41.97 -- 52.45	SS Forced Main	85+89.53 -- 101.09	Exist. Iron Pin	59+61.94 -- 52.56	SS Forced Main	41+45.61 -- 49.63	Head & End Walls		
112+07.76 -- 39.83	U/G Power Cable W/ Hand Hole	52+71.44 -- 31.51	Endang. Plant Bound.	23+61.64 -- 50.51	Head & End Walls	119+22.24 -- 50.51	SS Forced Main	85+69.51 -- 101.14	Exist. Iron Pin	59+46.44 -- 93.63	Area Outline	41+45.38 -- 43.67	Head & End Walls		
109+55.59 -- 33.82	Water Valve	52+70.66 -- 29.73	Endang. Plant Bound.	23+61.49 -- 55.08	Head & End Walls	118+98.07 -- 50.23	SS Forced Main	85+67.51 -- 45.02	Power Pole	59+44.73 -- 78.46	Area Outline	41+44.48 -- 42.42	Head & End Walls		
108+82.44 -- 89.06	"Sign, Flag Pole, Guard Post"	52+32.21 -- 31.84	Endang. Plant Bound.	23+61.44 -- 55.13	Head & End Walls	118+69.33 -- 49.59	SS Forced Main	84+76.06 -- 87.19	TV Pedestal	59+37.94 -- 93.08	"Sign, Flag Pole, Guard Post"	41+44.42 -- 43.16	Head & End Walls		
108+82.17 -- 97.73	"Sign, Flag Pole, Guard Post"	52+31.97 -- 32.94	Endang. Plant Bound.	23+61.30 -- 55.44	Foundation	118+67.50 -- 50.44	SS Forced Main	84+75.50 -- 87.90	Tel. Pedestal	59+37.76 -- 83.21	"Sign, Flag Pole, Guard Post"	41+22.34 -- 72.51	"Bldg., Wall, Ramp, Pier, Dock"		
108+80.66 -- 89.04	"Sign, Flag Pole, Guard Post"	52+12.20 -- 26.47	Endang. Plant Bound.	23+60.98 -- 55.53	Foundation	118+12.99 -- 63.39	Power Pole	84+72.38 -- 87.50	Power Transformer	59+36.25 -- 74.44	Area Outline	41+13.04 -- 62.49	"Bldg., Wall, Ramp, Pier, Dock"		
108+80.50 -- 97.62	"Sign, Flag Pole, Guard Post"	52+07.51 -- 26.18	Endang. Plant Bound.	23+60.13 -- 53.32	Head & End Walls	117+97.51 -- 51.56	SS Forced Main	84+65.38 -- 100.77	Exist. Iron Pin	59+35.78 -- 93.39	"Sign, Flag Pole, Guard Post"	41+12.73 -- 80.83	"Bldg., Wall, Ramp, Pier, Dock"		
108+72.99 -- 52.44	Pole	50+71.49 -- 30.29	Endang. Plant Bound.	23+60.03 -- 53.83	Head & End Walls	117+90.62 -- 54.91	Water Meter	84+63.90 -- 51.22	Exist. Iron Pin	59+35.36 -- 83.14	"Sign, Flag Pole, Guard Post"	41+01.55 -- 96.35	"Bldg., Wall, Ramp, Pier, Dock"		
108+66.93 -- 73.36	Water Meter	50+68.34 -- 31.66	Endang. Plant Bound.	23+60.01 -- 53.41	Head & End Walls	117+49.27 -- 53.00	Water Meter	84+36.92 -- 98.46	Pole	59+28.99 -- 77.89	Area Outline	40+82.02 -- 99.11	Pow. w/ Tel. Pole		
108+64.19 -- 73.14	Area Outline	50+67.44 -- 32.37	Endang. Plant Bound.	23+59.89 -- 53.64	Head & End Walls	117+13.84 -- 84.59	Pole	84+16.27 -- 36.23	Power Pole	59+28.83 -- 93.37	Area Outline	39+40.21 -- 112.75	Water Valve		
108+64.03 -- 77.68	Area Outline	50+66.51 -- 30.56	Endang. Plant Bound.	23+59.84 -- 53.86	Foundation	117+04.11 -- 53.86	SS Forced Main	84+11.59 -- 48.71	"Sign, Flag Pole, Guard Post"	59+16.51 -- 28.38	"Sign, Flag Pole, Guard Post"	39+27.26 -- 103.66	Water Meter		
108+59.64 -- 34.41	Water Valve	50+66.11 -- 30.82	Endang. Plant Bound.	23+59.61 -- 54.25	Foundation	116+92.81 -- 53.74	SS Forced Main	84+11.41 -- 57.50	"Sign, Flag Pole, Guard Post"	59+13.77 -- 46.83	Water Valve	39+24.79 -- 102.65	Water Meter		
108+59.38 -- 72.95	Area Outline	50+63.25 -- 30.95	Endang. Plant Bound.	23+54.39 -- 54.32	Foundation	116+87.61 -- 88.96	Power Pole	84+09.44 -- 48.70	"Sign, Flag Pole, Guard Post"	59+13.27 -- 47.36	Water Valve	39+08.22 -- 48.85	Tel. Pole		
108+59.08 -- 77.37	Area Outline	47+52.23 -- 31.00	Endang. Plant Bound.	23+54.09 -- 53.61	Head & End Walls	116+87.61 -- 62.61	SS Forced Main	84+09.23 -- 56.89	"Sign, Flag Pole, Guard Post"	59+07.71 -- 51.61	SS Forced Main	39+07.30 -- 51.26	Tel. Pedestal		
108+05.21 -- 80.40	Tel. Pedestal	47+47.42 -- 31.38	Endang. Plant Bound.	23+54.08 -- 53.79	Foundation	116+83.04 -- 60.87	SS Manhole	83+70.10 -- 88.75	Pole	59+06.16 -- 93.64	Fence Line	39+02.13 -- 37.11	Power Pole		
108+03.04 -- 51.34	Pole	47+45.02 -- 30.76	Endang. Plant Bound.	23+54.05 -- 53.70	Head & End Walls	116+73.73 -- 86.26	SS Forced Main	83+53.54 -- 105.82	Pole	59+05.81 -- 83.98	Fence Line	38+03.54 -- 109.25	Power Pole		
107+77.10 -- 96.27	Exist. Iron Pin	47+40.96 -- 30.23	Endang. Plant Bound.	23+53.99 -- 53.41	Head & End Walls	116+65.48 -- 68.84	Pole	83+24.84 -- 92.37	Power Transformer	58+96.18 -- 83.91	Fence Line	37+22.32 -- 36.82	Power Pole		
107+71.81 -- 100.68	Pole	47+30.44 -- 31.31	Endang. Plant Bound.	23+53.83 -- 53.25	Head & End Walls	116+62.76 -- 103.9	SS Forced Main	83+24.42 -- 87.56	Power Transformer	58+66.82 -- 52.31	SS Forced Main	35+72.93 -- 102.58	Fire Hydrant		
106+28.41 -- 53.16	Fire Hydrant	47+28.99 -- 33.07	Endang. Plant Bound.	23+53.01 -- 55.65	Foundation	116+60.53 -- 121.23	SS Forced Main	83+20.00 -- 49.80	Pole	58+63.44 -- 83.84	Fence Line	35+60.38 -- 36.51	Power Pole		
106+28.27 -- 34.93	Water Valve	47+22.34 -- 27.82	Endang. Plant Bound.	23+52.61 -- 55.35	Foundation	115+03.37 -- 72.60	Pole	83+05.26 -- 19.24	Valve	58+24.65 -- 51.83	SS Forced Main	35+58.61 -- 37.77	Tel. Pedestal		
106+23.49 -- 81.73	Power Pole	47+18.74 -- 32.56	Endang. Plant Bound.	23+52.56 -- 55.19	Head & End Walls	114+77.36 -- 77.36	Exist. Iron Pin	82+89.79 -- 50.79	Exist. Iron Pin	58+21.08 -- 83.85	Fence Line	33+79.94 -- 69.17	Wetland Boundary		
105+21.40 -- 88.41	Exist. Iron Pin	47+14.68 -- 27.23	Endang. Plant Bound.	23+52.46 -- 55.17	Head & End Walls	114+75.57 -- 62.46	SS Manhole	82+35.97 -- 99.49	Power Pole	57+78.91 -- 84.34	Fence Line	33+77.74 -- 60.53	Wetland Boundary		
103+48.92 -- 80.17	Pow. w/ Tel. Pole	45+52.05 -- 33.94	Endang. Plant Bound.	23+52.29 -- 54.96	Head & End Walls	114+62.10 -- 89.61	Power Pole	82+33.03 -- 96.28	Power Pole	57+73.17 -- 51.32	SS Forced Main	33+65.66 -- 73.62	Wetland Boundary		
103+47.15 -- 86.49	Exist. Iron Pin	45+51.28 -- 33.99	Endang. Plant Bound.	23+52.22 -- 54.85	Head & End Walls	114+34.10 -- 62.94	Pole	82+32.00 -- 98.00	Pole	57+47.44 -- 54.49	SS Forced Main	33+62.67 -- 63.88	Wetland Boundary		
103+03.75 -- 57.52	Water Meter	45+35.06 -- 44.44	Pole	23+18.54 -- 52.96	Exist. Iron Pin	113+40.52 -- 79.44	Area Outline	82+19.43 -- 50.94	Power Pole	57+28.65 -- 53.95	SS Forced Main	33+54.08 -- 78.77	Wetland Boundary		
103+03.64 -- 59.10	Water Meter	44+64.23 -- 41.60	TV Pedestal	23+15.30 -- 60.94	Exist. Iron Pin	113+38.22 -- 93.26	Area Outline	81+98.90 -- 55.90	Power Pole	56+99.18 -- 50.03	SS Forced Main	33+51.52 -- 70.41	Wetland Boundary		
101+65.57 -- 78.67	Pow. w/ Tel. Pole	44+31.51 -- 43.36	Endang. Plant Bound.	22+28.35 -- 85.80	Power Pole	113+29.93 -- 78.52	Area Outline	81+96.08 -- 66.53	Power Pole	56+94.09 -- 59.15	Power Transformer	33+50.13 -- 58.62	Wetland Boundary		
100+60.52 -- 26.97	Water Valve	44+28.52 -- 38.42	Endang. Plant Bound.	20+35.22 -- 56.52	TV Pedestal	112+82.37 -- 74.89	Power Pole	81+60.99 -- 53.07	Exist. Iron Pin	56+93.96 -- 63.34	Pole	33+49.49 -- 57.64	Head & End Walls		
99+86.07 -- 28.23	Water Valve	44+25.79 -- 43.03	Endang. Plant Bound.	20+25.30 -- 38.45	Tel. Pedestal	112+80.37 -- 113.08	Exist. Iron Pin	79+97.77 -- 46.01	Power Pole	56+55.56 -- 51.96	SS Forced Main	33+49.12 -- 59.38	Head & End Walls		
99+84.11 -- 38.74	Fire Hydrant	44+25.12 -- 43.12	Endang. Plant Bound.	20+16.03 -- 32.70	Tel. Pedestal	112+73.22 -- 07.35	"Sign, Flag Pole, Guard Post"	79+60.62 -- 50.83	Exist. Iron Pin	56+20.27 -- 52.45	U/G TV FO Cable W/ Hand Hole	33+49.03 -- 57.48	Head & End Walls		
99+30.83 -- 79.9

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US 21 DRAINAGE STATION/OFFSET DATA

US 21 DRAINAGE LEFT
STATION - OFFSET

132+34.53 -- 51.96	"15"" RCP	375 mm"	Drop Inlet
131+45.13 -- 50.35	"15"" RCP	375 mm"	Drop Inlet
130+07.42 -- 49.68	"15"" RCP	375 mm"	Drop Inlet
126+88.86 -- 49.60	"15"" RCP	375 mm"	Drop Inlet
122+71.89 -- 93.92	"18"" RCP	450 mm"	Drop Inlet
116+73.37 -- 89.09	"18"" RCP	450 mm"	Drop Inlet
113+04.45 -- 90.23	"18"" RCP	450 mm"	Drop Inlet
112+36.01 -- 89.06	"18"" RCP	450 mm"	Drop Inlet
105+20.16 -- 51.11	"15"" RCP	375 mm"	Drop Inlet
104+95.74 -- 51.57	"15"" RCP	375 mm"	Drop Inlet
104+84.57 -- 51.78	"18"" RCP	450 mm"	Drop Inlet
104+42.53 -- 52.23	"18"" RCP	450 mm"	Drop Inlet
103+41.25 -- 55.09	"15"" RCP	375 mm"	Drop Inlet
103+08.43 -- 54.74	"15"" RCP	375 mm"	Drop Inlet
100+70.90 -- 81.98	"12"" HDPE	300 mm"	Drop Inlet
100+67.28 -- 91.20	"12"" HDPE	300 mm"	Drop Inlet
99+88.67 -- 47.55	"15"" RCP	375 mm"	Drop Inlet
99+55.13 -- 46.94	"15"" RCP	375 mm"	Drop Inlet
86+92.74 -- 31.81	Catch Basin		Drop Inlet
86+92.32 -- 20.00	Catch Basin		Drop Inlet
86+87.64 -- 23.97	Catch Basin		Drop Inlet
86+87.27 -- 20.08	Catch Basin		Drop Inlet
86+27.66 -- 30.19	Drop Inlet		Drop Inlet
86+27.56 -- 28.39	Drop Inlet		Drop Inlet
86+24.77 -- 30.33	Drop Inlet		Drop Inlet
86+24.56 -- 28.51	Drop Inlet		Drop Inlet
85+35.68 -- 41.40	"18"" RCP	450 mm"	Drop Inlet
78+35.57 -- 27.71	"15"" RCP	375 mm"	Drop Inlet
77+78.61 -- 27.40	"15"" RCP	375 mm"	Drop Inlet
76+17.53 -- 27.84	"18"" RCP	450 mm"	Drop Inlet
75+72.96 -- 81.29	"18"" RCP	450 mm"	Drop Inlet
75+64.67 -- 29.68	"18"" RCP	450 mm"	Drop Inlet
75+51.27 -- 91.62	"15"" RCP	375 mm"	Drop Inlet
66+83.27 -- 46.40	"24"" CMP	600 mm"	Drop Inlet
66+72.80 -- 89.72	"15"" RCP	375 mm"	Drop Inlet
66+62.86 -- 123.46	"15"" RCP	375 mm"	Drop Inlet
64+61.00 -- 26.53	"12"" CMP	300 mm"	Drop Inlet
64+24.49 -- 27.26	"12"" CMP	300 mm"	Drop Inlet
60+64.24 -- 38.16	"18"" RCP	450 mm"	Drop Inlet
60+00.32 -- 27.00	"18"" RCP	450 mm"	Drop Inlet
55+34.78 -- 38.32	"24"" RCP	600 mm"	Drop Inlet
55+32.77 -- 88.28	"24"" RCP	600 mm"	Drop Inlet
43+51.38 -- 46.76	"24"" RCP	600 mm"	Drop Inlet
42+60.95 -- 45.35	"24"" RCP	600 mm"	Drop Inlet
34+26.26 -- 102.58	"24"" RCP	600 mm"	Drop Inlet
34+25.89 -- 97.23	"24"" RCP	600 mm"	Drop Inlet
32+46.95 -- 47.75	"18"" RCP	450 mm"	Drop Inlet
31+94.67 -- 45.14	"18"" RCP	450 mm"	Drop Inlet
31+93.96 -- 80.43	"15"" RCP	375 mm"	Drop Inlet
31+93.43 -- 105.94	"15"" RCP	375 mm"	Drop Inlet
30+16.49 -- 38.12	"18"" RCP	450 mm"	Drop Inlet
29+68.93 -- 39.97	"18"" RCP	450 mm"	Drop Inlet
28+61.47 -- 38.42	"18"" RCP	450 mm"	Drop Inlet
28+58.22 -- 61.99	"15"" RCP	375 mm"	Drop Inlet
28+08.40 -- 77.72	Catch Basin		Drop Inlet
28+08.37 -- 80.76	Catch Basin		Drop Inlet
28+08.25 -- 77.92	"15"" RCP	375 mm"	Drop Inlet
28+07.22 -- 76.09	"15"" RCP	375 mm"	Drop Inlet
28+06.53 -- 77.64	Catch Basin		Drop Inlet
28+06.46 -- 80.72	Catch Basin		Drop Inlet
27+76.23 -- 77.38	Catch Basin		Drop Inlet
27+76.17 -- 80.41	Catch Basin		Drop Inlet
27+75.54 -- 79.09	"15"" RCP	375 mm"	Drop Inlet
27+74.28 -- 77.63	"15"" RCP	375 mm"	Drop Inlet
27+74.26 -- 77.35	Catch Basin		Drop Inlet
27+74.16 -- 80.38	Catch Basin		Drop Inlet
27+36.58 -- 38.15	"15"" RCP	375 mm"	Drop Inlet
27+34.10 -- 36.38	"18"" RCP	450 mm"	Drop Inlet
23+57.15 -- 54.04	"36"" RCP	900 mm"	Drop Inlet
23+56.91 -- 53.85	"36"" RCP	900 mm"	Drop Inlet
18+87.01 -- 55.29	"18"" RCP	450 mm"	Drop Inlet
18+48.20 -- 54.72	"18"" RCP	450 mm"	Drop Inlet
17+55.73 -- 54.81	"18"" RCP	450 mm"	Drop Inlet
17+09.55 -- 54.48	"18"" RCP	450 mm"	Drop Inlet
16+54.69 -- 58.74	"18"" RCP	450 mm"	Drop Inlet
15+88.19 -- 57.58	"18"" RCP	450 mm"	Drop Inlet

US 21 DRAINAGE RIGHT
STATION - OFFSET

134+44.03 -- 124.96	Drop Inlet		
134+42.58 -- 124.93	"15"" RCP	375 mm"	
134+41.41 -- 124.62	Drop Inlet		
133+31.48 -- 53.68	"15"" RCP	375 mm"	
132+32.01 -- 52.75	"15"" RCP	375 mm"	
131+38.85 -- 49.53	"15"" RCP	375 mm"	
131+06.14 -- 49.33	"15"" RCP	375 mm"	
129+27.54 -- 50.09	"15"" RCP	375 mm"	
128+78.96 -- 48.70	"15"" RCP	375 mm"	
124+83.46 -- 67.72	"15"" RCP	375 mm"	
124+06.04 -- 65.76	"15"" RCP	375 mm"	
122+79.65 -- 85.42	Drop Inlet		
122+79.57 -- 83.81	Drop Inlet		
122+77.97 -- 67.67	"18"" RCP	450 mm"	
122+77.65 -- 75.69	"18"" RCP	450 mm"	
122+77.60 -- 83.32	"18"" RCP	450 mm"	
122+77.48 -- 84.84	"18"" RCP	450 mm"	
122+76.75 -- 83.74	Drop Inlet		
122+76.68 -- 85.44	Drop Inlet		
120+61.03 -- 90.17	"15"" HDPE	375 mm"	
117+51.28 -- 89.76	"18"" RCP	450 mm"	
116+59.26 -- 112.17	"18"" RCP	450 mm"	
115+36.67 -- 111.53	"18"" RCP	450 mm"	
113+29.92 -- 84.94	"18"" RCP	450 mm"	
113+12.70 -- 82.00	"15"" RCP	375 mm"	
112+93.13 -- 82.48	"18"" RCP	450 mm"	
112+92.44 -- 82.16	Storm Sewer Manhole		
112+92.27 -- 82.57	"18"" HDPE	450 mm"	
112+91.97 -- 82.58	"15"" RCP	375 mm"	
112+34.70 -- 62.38	Catch Basin		
112+33.53 -- 66.02	Catch Basin		
112+31.91 -- 61.48	Catch Basin		
112+30.82 -- 65.06	Catch Basin		
112+06.93 -- 75.98	Drop Inlet		
112+06.42 -- 80.23	Drop Inlet		
112+05.39 -- 77.77	"15"" RCP	375 mm"	
112+04.57 -- 77.82	Storm Sewer Manhole		
112+02.72 -- 75.44	Drop Inlet		
112+02.19 -- 79.67	Drop Inlet		
110+31.27 -- 83.74	Drop Inlet		
110+30.97 -- 87.98	Drop Inlet		
110+29.05 -- 85.72	Storm Sewer Manhole		
110+28.46 -- 86.27	"15"" HDPE	375 mm"	
110+27.03 -- 83.56	Drop Inlet		
110+26.83 -- 87.80	Drop Inlet		
88+45.58 -- 123.48	Drop Inlet		
88+44.58 -- 121.83	Drop Inlet		
88+43.02 -- 124.97	Drop Inlet		
88+42.07 -- 123.33	Drop Inlet		
75+38.04 -- 38.65	"18"" RCP	450 mm"	
74+77.01 -- 48.67	"18"" RCP	450 mm"	
74+36.91 -- 55.24	"18"" RCP	450 mm"	
72+34.79 -- 114.07	"18"" RCP	450 mm"	
66+65.14 -- 43.34	"24"" RCP	600 mm"	
64+45.67 -- 38.62	"18"" RCP	450 mm"	
56+23.18 -- 118.94	Drop Inlet		
56+23.16 -- 121.92	Drop Inlet		
56+21.20 -- 118.90	Drop Inlet		
56+21.14 -- 121.89	Drop Inlet		
55+57.62 -- 60.26	Drop Inlet		
55+57.58 -- 61.27	Drop Inlet		
55+56.68 -- 60.60	"12"" HDPE	300 mm"	
55+56.60 -- 60.23	Drop Inlet		
55+56.55 -- 61.25	Drop Inlet		
54+94.28 -- 61.31	Drop Inlet		
54+92.23 -- 60.18	Drop Inlet		
54+92.08 -- 59.55	"12"" HDPE	300 mm"	
54+91.30 -- 60.20	Drop Inlet		
54+91.22 -- 61.18	Drop Inlet		
53+75.89 -- 89.66	Drop Inlet		
53+75.75 -- 86.79	Drop Inlet		
53+74.26 -- 89.40	Drop Inlet		
53+74.11 -- 86.58	Drop Inlet		
52+06.52 -- 91.54	Drop Inlet		
52+05.84 -- 88.42	Drop Inlet		
52+04.97 -- 91.26	"15"" RCP	375 mm"	
52+04.68 -- 88.71	Drop Inlet		
52+04.46 -- 91.69	Drop Inlet		
50+15.29 -- 53.91	Drop Inlet		
50+15.26 -- 51.88	Drop Inlet		
50+12.33 -- 51.94	Drop Inlet		
50+12.30 -- 54.00	Drop Inlet		
49+61.80 -- 79.78	Drop Inlet		
49+61.79 -- 87.82	Drop Inlet		
49+59.79 -- 88.01	Drop Inlet		
49+59.71 -- 90.97	Drop Inlet		
49+59.68 -- 91.67	Drop Inlet		
49+30.91 -- 63.70	Drop Inlet		
49+27.98 -- 63.68	Drop Inlet		
49+27.98 -- 61.69	Drop Inlet		
48+08.30 -- 65.55	Drop Inlet		
48+08.13 -- 63.60	Drop Inlet		
48+05.18 -- 63.54	Drop Inlet		
48+05.13 -- 65.66	Drop Inlet		
39+89.06 -- 40.90	"24"" RCP	600 mm"	
39+88.43 -- 40.25	"24"" RCP	600 mm"	
39+31.45 -- 102.67	"15"" RCP	375 mm"	
39+06.78 -- 91.05	"15"" RCP	375 mm"	
39+06.61 -- 39.84	"24"" RCP	600 mm"	
39+06.41 -- 39.93	"24"" RCP	600 mm"	
38+33.83 -- 38.97	"18"" RCP	450 mm"	
38+33.63 -- 39.76	"18"" RCP	450 mm"	
37+69.04 -- 37.95	"18"" RCP	450 mm"	
37+49.00 -- 37.83	"18"" RCP	450 mm"	
34+94.00 -- 103.02	"24"" CMP	600 mm"	
29+07.07 -- 37.16	" 8"" HDPE	200 mm"	
29+03.72 -- 28.80	" 8"" HDPE	200 mm"	
28+77.20 -- 39.93	"18"" RCP	450 mm"	
27+48.13 -- 57.18	Catch Basin		
27+47.96 -- 61.99	Catch Basin		
27+46.43 -- 59.52	Storm Sewer Manhole		
27+43.28 -- 56.62	Catch Basin		
27+42.57 -- 61.47	Catch Basin		
27+24.00 -- 35.50	"18"" RCP	450 mm"	
25+67.60 -- 56.22	Catch Basin		
25+67.58 -- 61.02	Catch Basin		
25+65.27 -- 58.73	Storm Sewer Manhole		
25+62.87 -- 61.15	Catch Basin		
25+62.79 -- 56.34	Catch Basin		
23+86.21 -- 65.57	Catch Basin		
23+85.69 -- 70.28	Catch Basin		
23+83.56 -- 66.63	Storm Sewer Manhole		
23+81.43 -- 64.82	Catch Basin		
23+80.74 -- 69.70	Catch Basin		
23+14.61 -- 92.30	"36"" RCP	900 mm"	
23+85.69 -- 70.28	Catch Basin		
23+83.56 -- 66.63	Storm Sewer Manhole		
23+81.43 -- 64.82	Catch Basin		
23+80.74 -- 69.70	Catch Basin		
23+14.61 -- 92.30	"36"" RCP	900 mm"	
20+92.74 -- 28.61	"18"" RCP	450 mm"	
20+43.86 -- 28.63	"18"" RCP	450 mm"	
19+50.91 -- 39.07	"18"" RCP	450 mm"	
18+38.31 -- 39.28	Drop Inlet		
18+38.27 -- 39.24	Drop Inlet		
18+37.96 -- 38.24	"18"" RCP	450 mm"	
18+36.66 -- 38.31	Drop Inlet		
18+35.40 -- 38.40	"18"" RCP	450 mm"	
18+35.33 -- 37.35	Drop Inlet		
18+35.29 -- 39.28	Drop Inlet		
17+56.10 -- 34.50	Drop Inlet		
17+56.04 -- 36.54	Drop Inlet		
17+56.00 -- 35.49	"18"" RCP	450 mm"	
17+54.42 -- 35.57	Drop Inlet		
17+53.29 -- 35.58	"18"" RCP	450 mm"	
17+53.11 -- 34.50	Drop Inlet		
17+53.09 -- 36.50	Drop Inlet		
16+39.93 -- 30.22	Drop Inlet		
16+39.92 -- 32.10	Drop Inlet		
16+39.83 -- 31.23	Drop Inlet		
16+38.57 -- 31.26	Drop Inlet		
16+37.21 -- 31.25	"18"" RCP	450 mm"	
16+37.03 -- 32.16	Drop Inlet		
16+37.00 -- 30.23	Drop Inlet		
15+36.64 -- 50.07	"18"" RCP	450 mm"	
13+44.75 -- 72.67	Drop Inlet		
13+44.34 -- 75.71	Drop Inlet		
13+43.31 -- 74.88	"12"" HDPE	300 mm"	
13+42.86 -- 72.37	Drop Inlet		
13+42.37 -- 75.31	Drop Inlet		

RELOC. SC 51 (HIGHWAY 51) STATION/OFFSET DATA

RELOC. SC 51 (HIGHWAY 51) LEFT
STATION - OFFSET

340+02.81 -- 46.53	U/G TV Cable W/ Hand Hole	
339+40.39 -- 49.97	Exist. Iron Pin	
337+09.77 -- 34.29	Pow. w/ Tel. Pole	
336+63.35 -- 59.58	U/G TV Cable W/ Hand Hole	
336+62.31 -- 62 .00	TV Pedestal	
335+90.20 -- 29.99	Exist. Iron Pin	
331+78.43 -- 32.76	Water Valve	
331+77.51 -- 47.97	Fire Hydrant	
331+72.70 -- 44.78	Water Valve	
331+54.65 -- 47.67	SS Manhole	
331+48.57 -- 69.55	Tel. Manhole	
327+17.79 -- 61.63	U/G Power Cable W/ Hand Hole	
327+16.16 -- 35.97	Pole	
326+01.92 -- 31.85	Pole	
325+18.03 -- 31.81	Pow. w/ Tel. Pole	
325+11.60 -- 53.96	Exist. Iron Pin	
324+79.68 -- 50.00	Exist. Iron Pin	
323+28.98 -- 50.04	Exist. Iron Pin	
319+50.57 -- 37.48	Pow. w/ Tel. Pole	
319+50.54 -- 36.56	Tel. Pedestal	
317+63.83 -- 67.44	Power Tower	
317+60.95 -- 63.04	Power Tower	
317+59.22 -- 59.59	Power Tower	
317+56.36 -- 65.77	Power Tower	
317+52.21 -- 33.25	Exist. Iron Pin	
317+30.74 -- 33.79	Water Valve	
317+28.35 -- 33.35	Water Valve	
317+27.40 -- 31.29	Fire Hydrant	
317+05.41 -- 38.94	Tel. Pole	
316+40.55 -- 53.54	Pow. w/ Tel. Pole	
316+28.63 -- 18.65	Head & End Walls	
316+27.79 -- 18.83	Head & End Walls	
316+26.65 -- 15.77	Head & End Walls	
316+25.83 -- 15.67	Head & End Walls	
316+24.08 -- 14.88	Wetland Boundary	
316+23.62 -- 41.89	Wetland Boundary	
316+21.95 -- 44.33	Wetland Boundary	
316+21.53 -- 21.89	Wetland Boundary	
316+21.29 -- 15.20	Wetland Boundary	
316+19.72 -- 15.82	Head & End Walls	
316+19.00 -- 15.67	Head & End Walls	
316+18.99 -- 15.05	Head & End Walls	
316+16.41 -- 19.82	Head & End Walls	
316+15.35 -- 56.53	Wetland Boundary	
316+11.80 -- 69.27	Wetland Boundary	
315+63.76 -- 73.66	SS Manhole	
311+16.77 -- 40.98	Pow. w/ Tel. Pole	
311+15.13 -- 36.70	Exist. Iron Pin	
300+66.79 -- 70.30	Woods Line	
300+64.59 -- 72.15	Woods Line	
300+49.40 -- 73.44	Fence Line	
300+42.65 -- 22.29	Power Pole	
300+40.56 -- 11.66	Exist. Iron Pin	
300+32.72 -- 15.66	Fence Line	
300+32.29 -- 38.12	Guy Wire	
300+12.19 -- 03.25	Woods Line	
299+85.36 -- 06.34	Woods Line	
299+73.37 -- 14.47	Fence Line	
299+58.53 -- 05.83	Woods Line	
299+33.27 -- 07.01	Woods Line	
299+25.91 -- 74.75	Fence Line	
299+25.79 -- 70.51	Fence Line	
299+25.75 -- 70.37	Gate	
299+24.92 -- 51.30	Gate	
299+24.80 -- 50.55	Fence Line	
299+23.47 -- 19.54	Fence Line	
299+23.20 -- 19.54	Fence Line	
299+12.81 -- 07.24	Woods Line	
299+03.73 -- 00.45	Woods Line	
298+92.80 -- 25.55	Power Pole	
298+41.84 -- 21.82	Fence Line	
297+82.28 -- 63.38	Gate	
297+82.20 -- 64.18	Fence Line	
297+81.95 -- 64.28	Fence Line	
297+81.95 -- 44.30	Gate	
297+81.90 -- 23.56	Fence Line	
297+81.40 -- 23.51	Fence Line	
297+81.24 -- 17.81	Power Pole	
297+32.00 -- 24.77	Fence Line	
296+86.67 -- 02.39	Power Pole	
296+86.19 -- 24.40	Power Pole	
296+83.97 -- 26.08	Fence Line	
296+38.26 -- 67.19	Power Pole	
296+37.56 -- 25.11	Exist. Iron Pin	
296+37.54 -- 25.16	Exist. Iron Pin	

RELOC. SC 51 (HIGHWAY 51) DRAINAGE LEFT
STATION - OFFSET

340+78.50 -- 31.85	Drop Inlet	
340+78.44 -- 33.77	Drop Inlet	
340+78.32 -- 33.08	"15"" RCP	375 mm"
340+75.47 -- 33.61	Drop Inlet	
340+75.42 -- 31.89	Drop Inlet	
319+47.98 -- 24.80	"36"" RCP	900 mm"
319+01.20 -- 31.77	"36"" RCP	900 mm"
317+02.73 -- 21.87	"24"" RCP	600 mm"
317+02.51 -- 21.82	"24"" RCP	600 mm"
316+56.87 -- 23.22	"24"" RCP	600 mm"
316+56.85 -- 23.00	"24"" RCP	600 mm"
314+60.99 -- 22.87	"18"" RCP	450 mm"
314+39.84 -- 22.61	"18"" RCP	450 mm"
311+68.48 -- 21.18	"18"" RCP	450 mm"
311+18.30 -- 21.07	"18"" RCP	450 mm"
296+12.40 -- 30.92	"15"" RCP	375 mm"

RELOC. SC 51 (HIGHWAY 51) RIGHT
STATION - OFFSET

342+73.57 -- 62.11	R / W Monument	
341+67.45 -- 50.10	R / W Monument	
340+05.24 -- 50.01	Exist. Iron Pin	
338+81.65 -- 30.01	Pow. w/ Tel. Pole	
338+79.83 -- 24.34	U/G TV Cable W/ Hand Hole	
337+20.26 -- 29.22	Pow. w/ Tel. Pole	
336+72.81 -- 20.26	U/G TV Cable W/ Hand Hole	
335+11.94 -- 37.86	Pow. w/ Tel. Pole	
333+89.32 -- 41.21	Water Meter	
333+88.95 -- 31.32	Water Meter	
333+68.20 -- 27.59	SS Manhole	
333+67.89 -- 34.17	Water Valve	
333+03.65 -- 37.01	Fire Hydrant	
333+01.45 -- 47.40	Pow. w/ Tel. Pole	
332+65.50 -- 27.68	"Sign, Flag Pole, Guard Post"	
331+86.70 -- 45.58	Exist. Iron Pin	
331+55.96 -- 33.68	Water Meter	
330+37.64 -- 40.71	SS Manhole	
329+20.00 -- 15.55	Pow. w/ Tel. Pole	
328+63.21 -- 40.43	U/G Power Cable W/ Hand Hole	
327+60.43 -- 30.62	Pow. w/ Tel. Pole	
327+60.17 -- 40.04	Water Valve	
327+46.90 -- 34.30	Fire Hydrant	
326+87.36 -- 15.49	SS Manhole	
326+41.03 -- 41.10	Valve	
326+37.22 -- 39.47	Pow. w/ Tel. Pole	
326+35.59 -- 28.45	U/G TV Cable W/ Hand Hole	
326+32.91 -- 27.31	Pole	
325+84.74 -- 50.36	U/G Power Cable W/ Hand Hole	
325+51.31 -- 62.85	U/G Power Cable W/ Hand Hole	
325+12.65 -- 29.40	Pole	
325+00.38 -- 38.71	Pow. w/ Tel. Pole	
324+95.70 -- 44.05	U/G Power Cable W/ Hand Hole	
322+44.46 -- 28.45	Traffic Signal Box	
322+39.55 -- 54.46	Pow. w/ Tel. Pole	
321+66.66 -- 34.86	Tree	
319+47.92 -- 21.89	Exist. Iron Pin	
319+21.53 -- 21.89	Pow. w/ Tel. Pole	
319+21.29 -- 15.20	Exist. Iron Pin	
319+19.72 -- 15.82	Tel. Pedestal	
317+95.34 -- 16.29	Valve	
317+91.15 -- 29.05	Pow. w/ Tel. Pole	
316+86.35 -- 28.36	Pow. w/ Tel. Pole	
316+43.21 -- 56.20	Power Pole	
316+29.04 -- 19.33	Head & End Walls	
316+27.79 -- 19.17	Head & End Walls	
316+26.65 -- 15.57	Head & End Walls	
316+25.95 -- 15.55	Head & End Walls	
316+24.18 -- 70.52	Wetland Boundary	
316+24.04 -- 28.41	Wetland Boundary	
316+23.08 -- 15.25	Wetland Boundary	
316+21.50 -- 15.85	Wetland Boundary	
316+20.96 -- 31.53	Wetland Boundary	
316+20.57 -- 15.66	Head & End Walls	
316+19.04 -- 15.66	Head & End Walls	
316+16.66 -- 21.21	Head & End Walls	
316+15.90 -- 20.90	Head & End Walls	
315+96.73 -- 24.25	Pow. w/ Tel. Pole	
315+88.14 -- 74.25	Exist. Iron Pin	
315+87.13 -- 39.30	Exist. Iron Pin	
315+64.96 -- 59.33	SS Manhole	
315+00.65 -- 54.63	Power Pole	
314+36.05 -- 28.44	Pow. w/ Tel. Pole	
313+29.17 -- 48.53	Power Pole	
311+83.70 -- 28.76	Pow. w/ Tel. Pole	
310+20.37 -- 28.89	Pow. w/ Tel. Pole	
310+20.36 -- 39.45	Exist. Iron Pin	
308+70.07 -- 29.14	Pow. w/ Tel. Pole	
307+33.85 -- 29.92	Pow. w/ Tel. Pole	
306+22.24 -- 30.59	Pow. w/ Tel. Pole	
306+17.73 -- 31.36	Tel. Pedestal	
306+17.24 -- 31.75	TV Pedestal	
300+58.83 -- 41.53	Woods Line	
300+58.07 -- 52.85	Woods Line	
300+38.57 -- 9.920	Woods Line	
299+09.94 -- 69.66	Woods Line	
299+04.51 -- 16.27	Woods Line	
299+02.56 -- 55.62	Woods Line	
297+62.53 -- 53.24	Power Pole	
296+37.40 -- 30.95	Exist. Iron Pin	
296+23.19 -- 56.19	Water Meter	
296+22.03 -- 63.86	Water Valve	

RELOC. SC 51 (HIGHWAY 51) DRAINAGE RIGHT
STATION - OFFSET

340+79.05 -- 32.05	Drop Inlet	
340+78.78 -- 34.04	Drop Inlet	
340+77.34 -- 32.53	"15"" RCP	375 mm"
340+76.85 -- 33.56	"15"" RCP	375 mm"
340+76.00 -- 32.02	Drop Inlet	
340+75.94 -- 33.96	Drop Inlet	
340+04.69 -- 32.28	Drop Inlet	
340+04.66 -- 34.28	Drop Inlet	
340+04.57 -- 33.55	"15"" RCP	375 mm"
340+01.76 -- 32.46	Drop Inlet	
340+01.71 -- 34.17	Drop Inlet	
330+09.41 -- 22.62	"15"" RCP	375 mm"
329+49.49 -- 22.52	"15"" RCP	375 mm"
328+46.64 -- 21.76	"15"" RCP	375 mm"
328+01.29 -- 21.63	"15"" RCP	375 mm"
315+69.93 -- 25.95	"24"" RCP	600 mm"
315+49.49 -- 26.37	"24"" RCP	600 mm"
314+30.74 -- 22.19	"15"" RCP	375 mm"
314+05.28 -- 21.33	"15"" RCP	375 mm"
312+45.68 -- 19.98	"18"" RCP	450 mm"
312+04.15 -- 21.33	"18"" RCP	450 mm"
309+20.49 -- 26.06	"15"" RCP	375 mm"
308+79.07 -- 25.24	"15"" RCP	375 mm"
306+54.33 -- 24.26	"15"" RCP	375 mm"
306+25.68 -- 25.72	"15"" RCP	375 mm"
304+32.24 -- 40.40	"12"" RCP	300 mm"
303+85.52 -- 51.26	"12"" RCP	300 mm"
303+38.46 -- 58.26	"18"" RCP	450 mm"
303+27.86 -- 18.70	"18"" RCP	450 mm"
296+11.00 -- 17.67	"15"" RCP	375 mm"

SIDE STREETS STATION/OFFSET DATA

RELOC. US 21 BUSINESS LEFT
STATION - OFFSET

11+66.41 -- 22.23	SS Forced Main	
16+74.94 -- 47.90	Water Valve	
16+75.88 -- 49.25	Fire Hydrant	
16+76.23 -- 49.58	Fire Hydrant	
16+83.09 -- 40.73	Water Valve	
17+02.18 -- 37.79	"Sign, Flag Pole, Guard Post"	
17+02.30 -- 40.67	TV Pedestal	
17+02.33 -- 41.32	Tel. Pedestal	
17+02.59 -- 39.46	Tel. Pedestal	
17+03.25 -- 38.85	Tel. Pedestal	
17+04.98 -- 36.15	"Sign, Flag Pole, Guard Post"	
17+05.57 -- 58.35	"Sign, Flag Pole, Guard Post"	
17+14.98 -- 33.00	Tree	
18+30.85 -- 64.01	Water Valve	
18+34.03 -- 66.52	Water Meter	
18+36.14 -- 65.60	Water Meter	
18+52.77 -- 70.73	SS Forced Main	
18+89.40 -- 62.36	SS Forced Main	
19+47.90 -- 54.42	SS Forced Main	
19+85.41 -- 52.43	SS Forced Main	
19+98.29 -- 53.09	SS Forced Main	
19+99.16 -- 70.23	SS Forced Main	
20+10.54 -- 52.89	SS Forced Main	
20+50.45 -- 55.31	SS Forced Main	
20+72.56 -- 50.14	Pole	
20+79.44 -- 57.12	SS Forced Main	
21+03.24 -- 59.51	SS Forced Main	
21+28.91 -- 61.98	SS Forced Main	
21+53.96 -- 63.41	SS Forced Main	
21+61.51 -- 49.45	Pole	
21+63.30 -- 62.85	SS Forced Main	
21+65.15 -- 62.93	SS Clean-Out	
21+66.24 -- 62.88	SS Forced Main	
21+93.90 -- 17.41	Valve	

RELOC. US 21 BUSINESS DRAINAGE LEFT
STATION - OFFSET

19+26.20 -- 47.26	"15"" RCP	375 mm"

RELOC. US 21 BUSINESS RIGHT
STATION - OFFSET

10+31.07 -- 34.27	SS Forced Main	
10+31.11 -- 34.61	SS Forced Main	
10+58.23 -- 73.66	"Sign, Flag Pole, Guard Post"	
10+70.24 -- 70.60	"Sign, Flag Pole, Guard Post"	
10+70.96 -- 73.98	"Sign, Flag Pole, Guard Post"	
11+17.33 -- 43.89	SS Forced Main	
11+56.04 -- 55.41	Power Pole	
11+79.07 -- 67.21	Fence Line	
11+84.51 -- 64.70	Fence Line	
12+02.78 -- 64.75	Fence Line	
12+44.92 -- 64.73	Fence Line	
12+93.46 -- 64.67	Fence Line	
13+27.30 -- 64.88	Fence Line	
13+27.52 -- 64.73	Gate	
13+31.40 -- 64.90	Gate	
13+31.83 -- 64.94	Fence Line	
13+77.87 -- 65.06	Fence Line	
14+14.51 -- 64.90	Fence Line	
14+69.91 -- 65.14	Fence Line	
14+70.79 -- 71.37	Area Outline	
14+86.16 -- 70.27	Area Outline	
14+93.31 -- 73.90	Area Outline	
15+32.15 -- 51.92	Fence Line	
15+33.46 -- 50.95	"Sign, Flag Pole, Guard Post"	
15+34.30 -- 68.57	Fence Line	
15+65.29 -- 49.18	Fence Line	
15+97.39 -- 45.14	Fence Line	
16+03.86 -- 44.74	Fence Line	
16+10.36 -- 45.62	Fence Line	
16+61.94 -- 53.55	Fence Line	
17+54.78 -- 58.76	Power Pole	
18+18.82 -- 19.81	Power Pole	
18+18.93 -- 19.82	Power Pole	
18+27.46 -- 54.19	Fence Line	
18+65.97 -- 55.88	Fence Line	
18+82.47 -- 19.74	Power P

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SIDE STREETS STATION/OFFSET DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	51

FINAL PLANS

MERCANTILE PLACE LEFT
STATION - OFFSET

10+75.77 -- 32.85	U/G Unknown
10+78.00 -- 33.66	U/G Unknown
10+82.56 -- 20.84	Water Valve
10+89.97 -- 33.50	U/G Unknown
10+90.56 -- 30.97	Pole
11+19.35 -- 28.90	Water Valve
11+19.66 -- 31.32	Fire Hydrant
12+07.63 -- 24.39	Pole
12+21.60 -- 24.27	Water Valve
12+22.98 -- 38.35	Water Valve
13+07.72 -- 18.23	Pole
13+22.09 -- 31.45	Power Transformer
13+34.95 -- 74.17	Power Pole
13+95.78 -- 16.97	Pole
14+06.05 -- 15.69	Water Valve
14+06.14 -- 18.19	Fire Hydrant
14+82.39 -- 49.85	Property Monument

MERCANTILE PLACE DRAINAGE LEFT
STATION - OFFSET

11+88.02 -- 22.74	Drop Inlet
11+88.32 -- 24.35	Drop Inlet
11+90.88 -- 22.43	Drop Inlet
11+91.26 -- 24.08	Drop Inlet
14+00.55 -- 12.27	Catch Basin
14+00.66 -- 14.07	Catch Basin
14+03.37 -- 12.18	Catch Basin
14+03.52 -- 14.03	Catch Basin

MERCANTILE PLACE RIGHT
STATION - OFFSET

10+45.73 -- 26.70	U/G Unknown
10+50.96 -- 24.41	U/G Unknown
10+56.15 -- 71.09	"Sign, Flag Pole, Guard Post"
10+56.38 -- 58.96	"Sign, Flag Pole, Guard Post"
10+70.34 -- 28.02	Tel. Pedestal
10+72.45 -- 28.81	Power Pole
10+72.77 -- 19.98	U/G Unknown
10+73.36 -- 38.85	Power Transformer
10+82.27 -- 17.92	Water Meter
10+82.89 -- 28.96	Water Valve
10+92.15 -- 18.22	Pole
12+07.46 -- 18.44	Pole
12+53.68 -- 33.58	Water Valve
12+55.55 -- 18.55	Water Valve
12+69.46 -- 1.050	SS Manhole
13+07.99 -- 18.03	Pole
13+17.58 -- 30.21	Power Transformer
13+23.52 -- 34.73	Tel. Pedestal
13+31.72 -- 58.95	Pole
13+34.18 -- 38.54	"Sign, Flag Pole, Guard Post"
13+71.97 -- 36.94	"Sign, Flag Pole, Guard Post"
13+94.60 -- 18.69	Pole
14+30.70 -- 31.96	Pole
14+94.03 -- 31.18	Pole

MERCANTILE PLACE DRAINAGE LEFT
STATION - OFFSET

11+88.02 -- 22.74	Drop Inlet
11+88.32 -- 24.35	Drop Inlet
11+90.88 -- 22.43	Drop Inlet
11+91.26 -- 24.08	Drop Inlet
14+00.55 -- 12.27	Catch Basin
14+00.66 -- 14.07	Catch Basin
14+03.37 -- 12.18	Catch Basin
14+03.52 -- 14.03	Catch Basin

S-1134 (LAKE VIEW ROAD) LEFT
STATION - OFFSET

11+21.02 -- 25.96	Power Transformer
11+22.43 -- 33.06	Exist. Iron Pin
11+43.92 -- 16.73	Water Meter
12+83.82 -- 36.88	Power Pole
13+05.30 -- 34.05	Exist. Iron Pin
14+56.57 -- 31.49	Pow. w/ Tel. Pole
14+63.14 -- 30.37	Tel. Pedestal
14+67.19 -- 36.58	Exist. Iron Pin
14+69.27 -- 27.54	TV Pedestal

S-1134 (LAKE VIEW ROAD) DRAINAGE LEFT
STATION - OFFSET

14+70.79 -- 31.17	"18"" RCP 450 mm"

S-1134 (LAKE VIEW ROAD) RIGHT
STATION - OFFSET

11+84.70 -- 30.22	Water Meter
11+87.61 -- 40.49	Pole
12+22.08 -- 40.78	Pole
13+95.98 -- 39.37	Pole
14+33.62 -- 38.55	Pole
14+85.40 -- 44.72	Water Valve

S-1134 (LAKE VIEW ROAD) DRAINAGE RIGHT
STATION - OFFSET

10+61.12 -- 28.77	"18"" RCP 450 mm"
10+62.85 -- 29.68	"15"" RCP 375 mm"
10+83.95 -- 28.73	"15"" RCP 375 mm"
11+89.04 -- 21.42	"15"" RCP 375 mm"
12+15.00 -- 21.53	"15"" RCP 375 mm"
14+11.28 -- 20.81	"15"" RCP 375 mm"
14+36.79 -- 20.98	"15"" RCP 375 mm"
14+72.09 -- 21.16	"18"" RCP 450 mm"

S-1470 (FOREST DRIVE) LEFT
STATION - OFFSET

10+71.50 -- 36.18	Power Pole
10+73.23 -- 38.85	Tel. Pedestal
10+85.25 -- 27.64	SS Forced Main
10+86.15 -- 56.55	Pole
10+87.52 -- 21.19	SS Forced Main
11+01.63 -- 53.53	SS Forced Main
11+24.84 -- 19.36	SS Forced Main
11+75.11 -- 20.37	SS Forced Main
12+01.17 -- 16.03	Valve
12+07.73 -- 13.58	Valve
12+14.36 -- 15.96	Valve
12+37.43 -- 19.65	SS Forced Main
12+93.86 -- 18.87	SS Forced Main
12+93.88 -- 45.38	SS Forced Main
12+97.28 -- 49.39	SS Forced Main
13+15.01 -- 38.72	SS Manhole
13+16.61 -- 49.93	SS Forced Main
13+50.67 -- 55.22	Power Pole
13+59.02 -- 69.10	Power Pole
13+65.13 -- 50.34	SS Forced Main
13+88.28 -- 38.95	SS Manhole
13+99.29 -- 30.86	Water Valve
14+02.37 -- 31.07	Water Valve

S-1470 (FOREST DRIVE) DRAINAGE LEFT
STATION - OFFSET

13+04.66 -- 18.03	Drop Inlet
13+04.80 -- 19.93	Drop Inlet
13+06.16 -- 18.33	24" RCP 600 mm
13+07.34 -- 19.12	24" RCP 600 mm
13+07.63 -- 18.30	Drop Inlet
13+07.63 -- 19.94	Drop Inlet
13+87.92 -- 14.42	Drop Inlet
13+88.07 -- 17.34	Drop Inlet
13+88.19 -- 15.72	24" RCP 600 mm
13+89.58 -- 16.64	24" RCP 600 mm
13+89.84 -- 14.39	Drop Inlet
13+90.01 -- 17.28	Drop Inlet

S-1470 (FOREST DRIVE) RIGHT
STATION - OFFSET

10+58.51 -- 27.15	Pole
11+24.63 -- 26.81	Pow. w/ Tel. Pole
11+24.90 -- 25.97	Tel. Pedestal
11+25.63 -- 22.09	Water Meter
11+25.95 -- 17.23	Exist. Iron Pin
13+00.34 -- 26.90	Pow. w/ Tel. Pole
13+06.75 -- 17.16	Exist. Iron Pin
13+11.00 -- 32.31	Water Meter
13+95.78 -- 16.93	Exist. Iron Pin
13+96.38 -- 00.04	Exist. Iron Pin
14+79.34 -- 26.11	Water Meter
14+86.92 -- 26.53	Pow. w/ Tel. Pole
15+70.21 -- 26.49	Pow. w/ Tel. Pole

S-1470 (FOREST DRIVE) DRAINAGE RIGHT
STATION - OFFSET

13+06.15 -- 28.52	Drop Inlet
13+06.39 -- 25.64	Drop Inlet
13+07.60 -- 28.27	24" RCP 600 mm
13+07.69 -- 26.73	24" RCP 600 mm
13+08.15 -- 27.27	18" RCP 450 mm
13+09.45 -- 25.49	Drop Inlet
13+09.54 -- 28.59	Drop Inlet
13+96.76 -- 25.93	Drop Inlet
13+98.86 -- 23.97	Drop Inlet
13+98.74 -- 24.09	Drop Inlet
13+98.79 -- 25.99	Drop Inlet
14+24.44 -- 23.25	18" RCP 450 mm
14+85.40 -- 22.78	15" RCP 375 mm
15+14.00 -- 22.71	15" RCP 375 mm

S-1469 (FERN FOREST CT.) LEFT
STATION - OFFSET

13+40.06 -- 25.09	Water Meter
13+47.42 -- 21.37	Pow. w/ Tel. Pole
13+97.85 -- 24.18	Exist. Iron Pin

S-1469 (FERN FOREST CT.) DRAINAGE LEFT
STATION - OFFSET

10+41.84 -- 47.50	"24"" RCP 600 mm"
10+42.77 -- 48.11	"24"" RCP 600 mm"

S-1469 (FERN FOREST CT.) RIGHT
STATION - OFFSET

10+36.91 -- 38.73	Power Pole
10+46.82 -- 33.04	Tel. Pole
10+48.78 -- 34.12	Tel. Pedestal
10+94.73 -- 27.36	Water Meter
10+96.28 -- 25.36	Water Meter
11+08.09 -- 16.69	Water Valve
11+38.51 -- 34.57	Pow. w/ Tel. Pole
11+80.42 -- 28.02	Water Meter
12+12.20 -- 25.77	Water Meter
12+62.89 -- 25.09	Exist. Iron Pin
12+62.97 -- 26.22	Pow. w/ Tel. Pole
13+49.39 -- 26.88	Pow. w/ Tel. Pole
13+50.14 -- 27.75	Water Meter
13+53.65 -- 27.87	Water Meter
14+01.15 -- 27.66	Pow. w/ Tel. Pole
14+78.05 -- 63.72	Power Tower
14+97.84 -- 24.86	Exist. Iron Pin

S-1469 (FERN FOREST CT.) DRAINAGE RIGHT
STATION - OFFSET

10+39.21 -- 34.28	"24"" RCP 600 mm"
10+39.29 -- 34.48	"24"" RCP 600 mm"
10+73.81 -- 21.90	"15"" RCP 375 mm"
10+96.71 -- 21.08	"15"" RCP 375 mm"
11+35.76 -- 22.72	"15"" RCP 375 mm"
11+58.39 -- 20.94	"15"" RCP 375 mm"

S-113 (LAKE SHORE DRIVE) LEFT
STATION - OFFSET

12+44.23 -- 37.17	Pow. w/ Tel. Pole
12+46.60 -- 34.81	Exist. Iron Pin

S-1133 (LAKE SHORE DRIVE) DRAINAGE LEFT
STATION - OFFSET

11+65.82 -- 23.22	"18"" RCP 450 mm"
11+98.19 -- 24.01	"18"" RCP 450 mm"
14+06.12 -- 64.04	"24"" RCP 600 mm"

S-1133 (LAKE SHORE DRIVE) RIGHT
STATION - OFFSET

13+59.41 -- 33.00	Exist. Iron Pin
14+11.06 -- 19.93	Water Valve
14+19.65 -- 12.94	Valve

S-1133 (LAKE SHORE DRIVE) DRAINAGE RIGHT
STATION - OFFSET

13+91.00 -- 24.95	"24"" RCP 600 mm"

EMBASSY DRIVEWAY (PRIVATE) LEFT
STATION - OFFSET

10+53.36 -- 59.45	SS Forced Main
10+54.49 -- 14.86	SS Forced Main
10+55.45 -- 27.62	SS Forced Main
10+86.55 -- 64.07	Fence Line
12+14.83 -- 60.41	SS Manhole

EMBASSY DRIVEWAY (PRIVATE) RIGHT
STATION - OFFSET

10+49.57 -- 14.46	SS Forced Main
10+50.03 -- 58.12	SS Forced Main
10+58.51 -- 19.86	Power Transformer
10+62.70 -- 20.19	Pole
11+27.35 -- 14.97	Pole

S-676 (GARRISON FARM ROAD) LEFT
STATION - OFFSET

10+46.36 -- 22.06	Valve
10+49.13 -- 61.94	Tel. Manhole
10+50.56 -- 30.92	Pole
11+78.49 -- 44.74	Tel. Pole

S-676 (GARRISON FARM ROAD) DRAINAGE LEFT
STATION - OFFSET

10+41.34 -- 19.50	"18"" RCP 450 mm"

S-676 (GARRISON FARM ROAD) RIGHT
STATION - OFFSET

11+18.13 -- 12.61	Tel. Pedestal
11+18.37 -- 11.46	Tel. Pole
12+69.21 -- 14.25	Tel. Pole
13+32.85 -- 21.13	Water Meter

S-676 (GARRISON FARM ROAD) DRAINAGE RIGHT
STATION - OFFSET

10+43.84 -- 42.30	"18"" RCP 450 mm"

JS-040 (BAXTER LANE) LEFT
STATION - OFFSET

10+02.16 -- 31.44	Power Pole
11+73.28 -- 32.16	Power Pole
11+79.01 -- 23.11	Exist. Iron Pin
14+27.99 -- 32.76	Power Pole

JS-040 (BAXTER LANE) DRAINAGE LEFT
STATION - OFFSET

14+21.53 -- 12.50	"15"" RCP 375 mm"
14+71.94 -- 26.34	"18"" RCP 450 mm"

JS-040 (BAXTER LANE) RIGHT
STATION - OFFSET

14+76.37 -- 14.50	Pow. w/ Tel. Pole
14+77.50 -- 14.64	Tel. Pedestal

JS-040 (BAXTER LANE) DRAINAGE RIGHT
STATION - OFFSET

14+21.13 -- 11.52	"15"" RCP 375 mm"

J3-076 (CENTRAL CAROLINAS PARKWAY) LEFT
STATION - OFFSET

10+19.77 -- 58.56	Power Transformer
10+62.28 -- 35.35	Tel. Pedestal
10+62.70 -- 36.13	TV Pedestal
10+68.44 -- 31.04	Power Pole
11+88.14 -- 34.91	Water Meter
11+90.40 -- 34.80	Water Meter
13+56.45 -- 46.06	Pole
13+58.65 -- 47.44	Traffic Signal Box
13+65.36 -- 51.22	Pole

J3-076 (CENTRAL CAROLINAS PARKWAY) DRAINAGE LEFT
STATION - OFFSET

10+08.53 -- 21.54	Drop Inlet
10+08.55 -- 23.44	Drop Inlet
10+11.58 -- 23.41	Drop Inlet
10+11.60 -- 21.39	Drop Inlet
11+80.13 -- 23.73	Drop Inlet
11+80.13 -- 21.77	Drop Inlet
11+83.21 -- 21.74	Drop Inlet
11+83.25 -- 23.75	Drop Inlet

J3-076 (CENTRAL CAROLINAS PARKWAY) RIGHT
STATION - OFFSET

13+54.74 -- 37.86	Fire Hydrant
13+54.82 -- 35.15	Water Valve
13+62.43 -- 51.46	Tel. Pedestal
13+66.50 -- 49.75	Pow. w/ Tel. Pole
13+80.70 -- 31.53	Water Valve
13+80.71 -- 31.51	Water Valve

J3-176 (CENTRAL CAROLINAS PARKWAY) DRAINAGE RIGHT
STATION - OFFSET

10+08.59 -- 21.42	Drop Inlet
10+08.65 -- 23.34	Drop Inlet
10+11.69 -- 21.37	Drop Inlet
10+11.71 -- 23.30	Drop Inlet
11+79.99 -- 21.74	Drop Inlet
11+80.02 -- 23.60	Drop Inlet
11+83.06 -- 23.51	Drop Inlet
11+83.12 -- 21.62	Drop Inlet

REGENT DRIVEWAY (PRIVATE) LEFT
STATION - OFFSET

10+19.10 -- 37.93	Valve
10+49.61 -- 52.79	Pole
10+50.71 -- 22.59	Exist. Iron Pin
10+87.35 -- 57.35	Power Transformer
10+92.16 -- 57.78	Power Transformer
11+09.58 -- 64.54	Pole

REGENT DRIVEWAY (PRIVATE) DRAINAGE LEFT
STATION - OFFSET

12+30.72 -- 65.78	Catch Basin
12+30.97 -- 63.96	Catch Basin
12+33.68 -- 66.17	Catch Basin
12+33.97 -- 64.27	Catch Basin

REGENT DRIVEWAY (PRIVATE) RIGHT
STATION - OFFSET

10+51.12 -- 47.78	Power Pole
10+56.15 -- 68.28	Power Pole
10+58.12 -- 34.58	Pole
10+66.79 -- 71.07	Power Pole
10+96.40 -- 34.01	Power Pole
10+99.60 -- 31.05	Power Pole
11+36.72 -- 25.66	Pole
12+36.95 -- 24.64	Pole

LAKES BOULEVARD LEFT
STATION - OFFSET

10+56.94 -- 48.84	Tel. Manhole
10+60.01 -- 30.21	Tel. Pedestal
10+61.15 -- 30.28	Tel. Pedestal
10+63.22 -- 28.50	Pow. w/ Tel. Pole
10+84.73 -- 27.01	TV Pedestal
11+94.18 -- 28.03	Pow. w/ Tel. Pole
13+59.06 -- 28.50	Exist. Iron Pin

LAKES BOULEVARD RIGHT
STATION - OFFSET

10+41.04 -- 37.05	Exist. Iron Pin
12+95.40 -- 37.14	Exist. Iron Pin

J3-107 (REGENT PARKWAY) LEFT
STATION - OFFSET

14+87.33 -- 43.10	Water Valve
14+54.01 -- 48.97	Pole
14+26.70 -- 62.47	SS Manhole
13+50.79 -- 49.46	Exist. Iron Pin
13+44.93 -- 45.51	Water Valve
13+41.60 -- 49.57	Water Meter
12+93.66 -- 55.21	Power Transformer
12+86.39 -- 47.43	Water Valve
12+76.21 -- 67.76	Water Meter
12+74.82 -- 61.26	Tel. Manhole
12+74.49 -- 67.85	Water Meter
12+39.73 -- 72.27	Water Meter
12+01.06 -- 46.42	Exist. Iron Pin
11+60.49 -- 51.20	Pole

J3-107 (REGENT PARKWAY) DRAINAGE LEFT
STATION - OFFSET

15+11.94 -- 39.49	Catch Basin
15+11.93 -- 44.31	Catch Basin
15+09.82 -- 05.25	Storm Sewer Manhole
15+08.34 -- 42.70	Storm Sewer Manhole
15+07.01 -- 44.31	Catch Basin
15+06.90 -- 39.46	Catch Basin

J3-107 (REGENT PARKWAY) RIGHT
STATION - OFFSET

17+24.90 -- 51.76	Exist. Iron Pin
15+80.98 -- 51.76	Pole
14+02.92 -- 67.58	Pole
13+06.20 -- 51.92	Pole
12+28.78 -- 45.38	Valve
11+63.49 -- 51.02	Pole
11+37.03 -- 67.36	Power Transformer
11+34.75 -- 72.70	Power Transformer

J3-107 (REGENT PARKWAY) DRAINAGE RIGHT
STATION - OFFSET

15+13.12 -- 45.05	Catch Basin
15+13.03 -- 40.21	Catch Basin
15+12.96 -- 11.74	Catch Basin
15+12.91 -- 7.020	Catch Basin
15+11.74 -- 43.49	Storm Sewer Manhole
15+10.03 -- 48.10	Storm Sewer Manhole
15+09.80 -- 08.43	Storm Sewer Manhole
15+08.41 -- 07.40	Catch Basin
15+08.15 -- 45.24	Catch Basin
15+08.07 -- 11.77	Catch Basin
15+07.98 -- 40.33	Catch Basin
13+83.19 -- 48.72	Drop Inlet
13+83.18 -- 50.45	Drop Inlet
13+80.16 -- 48.51	Drop Inlet
13+80.15 -- 50.33	Drop Inlet

S-641 (FLINTHILL ROAD) AT US 21 LEFT
STATION - OFFSET

10+53.69 -- 41.63	Pole

S-641 (FLINTHILL ROAD) AT US 21 RIGHT
STATION - OFFSET

10+45.64 -- 55.20	Valve
10+53.57 -- 38.94	Power Pole
10+53.90 -- 41.03	Traffic Signal Box
10+59.95 -- 39.98	TV Pedestal
10+60.06 -- 39.83	TV Pedestal
10+60.17 -- 41.44	Pow. w/ Tel. Pole

RETAIL DRIVE (PRIVATE) LEFT
STATION - OFFSET

12+05.68 -- 23.16	Fire Hydrant
12+09.31 -- 22.95	Water Valve
12+23.65 -- 38.00	Power Transformer
13+04.66 -- 43.68	"Sign, Flag Pole, Guard Post"
13+04.78 -- 42.09	"Sign, Flag Pole, Guard Post"
13+13.33 -- 44.09	"Sign, Flag Pole, Guard Post"
13+13.36 -- 42.31	"Sign, Flag Pole, Guard Post"
13+24.85 -- 25.77	Area Outline
13+25.20 -- 20.82	Area Outline
13+29.12 -- 28.70	Water Meter
13+29.38 -- 25.96	Area Outline
13+29.61 -- 21.15	Area Outline
13+50.02 -- 34.92	Pole
13+68.15 -- 21.69	Water Valve

RETAIL DRIVE (PRIVATE) RIGHT
STATION - OFFSET

13+02.54 -- 66.63	Pole
13+06.91 -- 61.30	Exist. Iron Pin
13+22.57 -- 33.08	Tel. Pedestal
13+51.65 -- 35.02	Pole

J2-010 (TERRY'S ROAD) LEFT
STATION - OFFSET

10+09.91 -- 23.72	Pole
10+64.94 -- 13.26	Water Valve
10+75.57 -- 48.90	Power Transformer
10+81.68 -- 15.61	Water Valve
10+81.83 -- 18.10	Fire Hydrant
11+42.37 -- 00.86	Exist. Iron Pin
12+13.97 -- 20.71	Water Valve
12+13.99 -- 25.36	Fire Hydrant
12+20.95 -- 23.23	Water Meter
12+27.33 -- 19.70	Water Valve
12+64.33 -- 03.92	"Sign, Flag Pole, Guard Post"

J2-010 (TERRY'S ROAD) DRAINAGE LEFT
STATION - OFFSET

11+00.90 -- 33.04	"12"" RCP 300 mm"
11+11.72 -- 44.60	"12"" RCP 300 mm"
11+79.57 -- 36.92	"18"" RCP 450 mm"

J2-010 (TERRY'S ROAD) RIGHT
STATION - OFFSET

11+72.12 -- 41.71	Pow. w/ Tel. Pole
11+73.48 -- 41.86	Tel. Pedestal
11+84.52 -- 43.85	Pow. w/ Tel. Pole
12+26.28 -- 61.90	U/G Power Cable W/ Hand Hole

J2-010 (TERRY'S ROAD) DRAINAGE RIGHT
STATION - OFFSET

11+96.85 -- 33.29	"18"" RCP 450 mm"

EXISTING S-48 (SPRING HILL FARM ROAD CUL-DE-SAC) LEFT
STATION - OFFSET

12+98.35 -- 33.44	Exist. Iron Pin
14+03.66 -- 43.74	Fire Hydrant
14+04.40 -- 31.55	Water Valve
14+83.78 -- 34.77	Shrub
15+32.44 -- 34.88	Shrub
15+78.91 -- 48.90	Shrub
15+82.52 -- 33.27	Shrub
16+22.98 -- 50.07	Shrub
16+32.62 -- 35.60	Shrub
16+62.94 -- 43.29	Shrub
16+63.93 -- 36.15	Shrub
16+77.79 -- 35.67	Tel. Pedestal
16+78.21 -- 39.57	Power Pole
16+83.18 -- 36.29	TV Pedestal
17+63.60 -- 36.62	Tree
17+88.95 -- 35.86	Tree
18+37.65 -- 36.14	Tree
18+61.82 -- 35.89	Tree
20+11.05 -- 32.87	Exist. Iron Pin
20+73.62 -- 21.69	SS Manhole
20+73.98 -- 33.06	Exist. Iron Pin
20+94.16 -- 39.90	Fire Hydrant
21+08.15 -- 29.29	Water Valve
24+00.27 -- 51.73	Pow. w/ Tel. Pole
24+07.62 -- 36.68	Tel. Pedestal
24+07.81 -- 38.86	TV Pedestal
24+12.63 -- 32.86	Exist. Iron Pin
24+72.90 -- 28.25	SS Manhole
26+13.68 -- 40.67	Tel. Manhole
26+35.23 -- 30.67	SS Manhole
26+50.07 -- 44.37	Fire Hydrant
26+50.82 -- 40.77	Water Valve
26+63.15 -- 35.65	Water Valve

EXISTING S-48 (SPRING HILL FARM ROAD CUL-DE-SAC) DRAINAGE LEFT
STATION - OFFSET

18+20.74 -- 40.60	"12"" CMP 300 mm"
23+48.41 -- 13.12	"18"" RCP 450 mm"

EXISTING S-48 (SPRING HILL FARM ROAD CUL-DE-SAC) RIGHT
STATION - OFFSET

13+06.37 -- 36.91	Power Pole
14+81.76 -- 62.39	Woods Line
15+31.93 -- 64.94	Woods Line
15+82.83 -- 68.76	Woods Line
16+20.73 -- 48.89	Power Pole
16+27.02 -- 66.17	Woods Line
16+78.77 -- 67.49	Woods Line
17+19.58 -- 62.88	Woods Line
17+71.81 -- 62.43	Woods Line
18+16.57 -- 60.38	Woods Line
18+25.55 -- 48.09	Power Pole
18+64.35 -- 67.32	Woods Line
20+24.89 -- 32.87	Exist. Iron Pin
20+25.93 -- 45.33	Power Pole
22+85.85 -- 65.98	Pow. w/ Tel. Pole
23+55.94 -- 71.02	Pow. w/ Tel. Pole
23+60.14 -- 32.86	Exist. Iron Pin

EXISTING S-48 (SPRING HILL FARM ROAD CUL-DE-SAC) DRAINAGE RIGHT
STATION - OFFSET

23+04.35 -- 48.28	"18"" RCP 450 mm"
23+44.28 -- 27.79	"18"" RCP 450 mm"
23+45.26 -- 19.07	"18"" RCP 450 mm"

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARLSTEN
4/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

REFERENCE DATA SHEET

RTE. US 21 DWG. NO.

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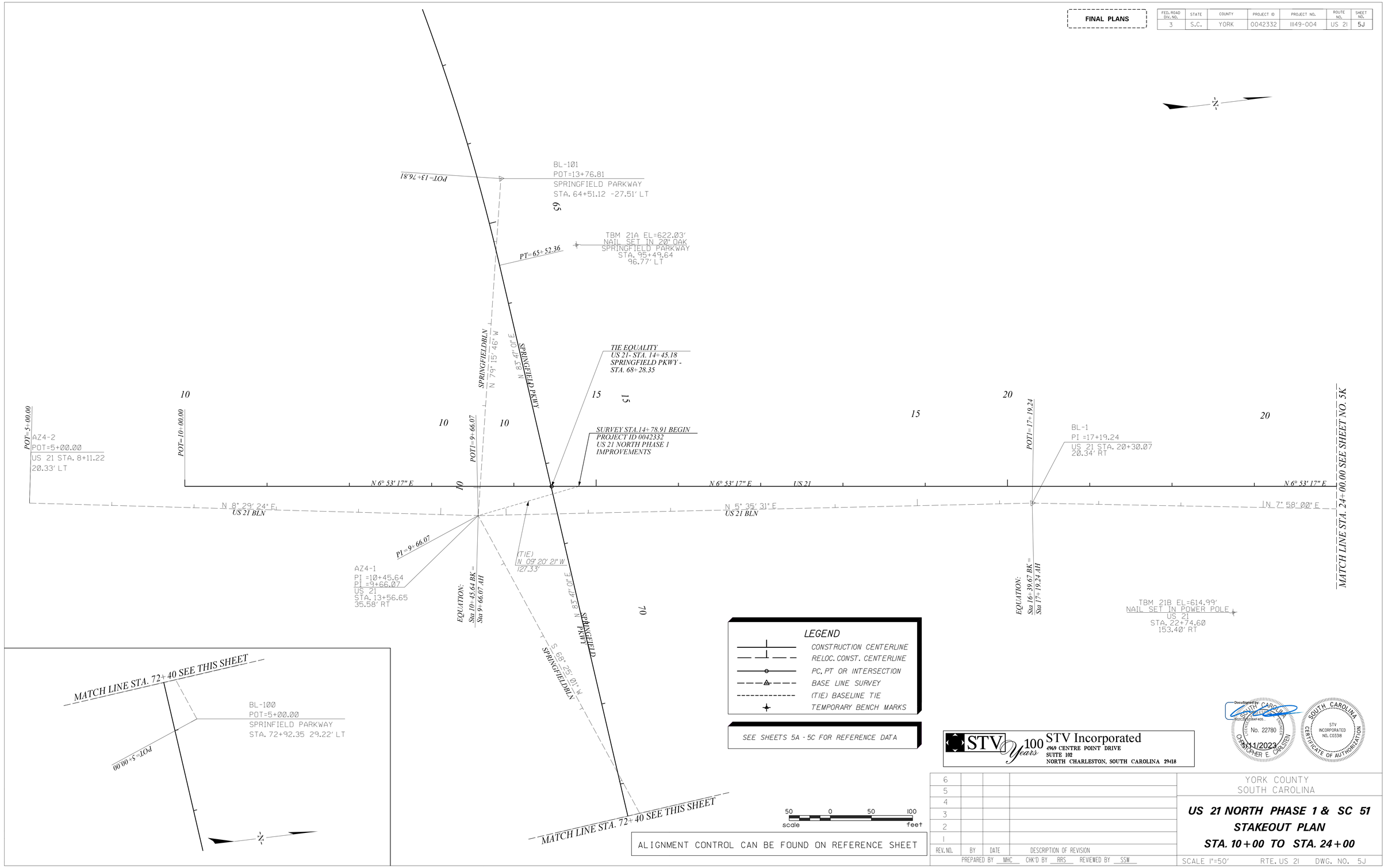
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5J



STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

DocuSigned by: CHRISTOPHER E. CARLSEN
No. 22780
4/11/2023
SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

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2			
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 10+00 TO STA. 24+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5J

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	5K

BL-103
POT=15+68.79
S-1134
STA. 8+77.64
7.60' LT

POT=15+68.79
S 85° 09' 26" W
POT=10+00.00
LAKEVIEWBLN
N 5° 00' 06" W
MATCH LINE STA. 11+50.00 SEE THIS SHEET

MATCH LINE STA. 11+50.00 SEE THIS SHEET
PC=11+68.29
N 9° 09' 26" W
S-1134 (LAKEVIEW RD)
LAKEVIEWBLN

SURVEY STA. 13+85.00 BEGIN
PROJECT ID 0042332
S-1134

BL-102
PI =9+95.42
US 21 STA. 32+31.36
68.24' LT
S-1134 STA. 14+49.92
16.10' LT

PT=14+00.43
S 84° 33' 18" E

SURVEY STA. 14+84.26 BEGIN
PROJECT ID 0042332
S-1134

MATCH LINE STA. 24+00.00 SEE SHEET 5J

TIE EQUALITY
US 21- STA. 27+92.17
MERCANTILE PL -
STA. 10+00.00

N 5° 00' 06" W LAKEVIEWBLN

US 21
N 6° 53' 17" E

N 7° 58' 00" E
N 6° 05' 31" E
US21BLN

TIE EQUALITY
US 21- STA. 32+16.97
LAKEVIEW RD -
STA. 15+17.77

TIE EQUALITY
US 21- STA. 35+94.86
AMELIA DR -
STA. 10+00.00

TIE EQUALITY
US 21- STA. 39+40.82
S-1469
STA. 10+00.00

N 7° 00' 52" E
N 6° 34' 55" E

SURVEY STA. 10+33.50 BEGIN
PROJECT ID 0042332
S-1467

PC=10+36.18

BL-107
POT=15+70.31
S-1133
STA. 9+12.55
9.26' RT

TF0=45°40'04"
POT=10+00.00
S 34° 14' 39" W
LAKEFORESTBLN

BL-2
PI =24+35.86
POT=5+00.00
US 21 STA. 27+46.57
33.83' RT

EQUATION:
Sta 24+35.86 BK =
Sta 5+00.00 AH

SURVEY STA. 10+33.55 BEGIN
PROJECT ID 0042332
MERCANTILE PLACE

TBM 21C EL=593.64'
RR SPIKE SET IN 18" PINE
US 21
STA. 31+98.01
107.38' RT

BL-3
PI =32+40.50
POT=5+00.00
US 21 STA. 35+51.13
22.65' RT
S-1467 STA. 10+22.84
46.64' RT

EQUATION:
Sta 13+04.64 BK =
Sta 5+00.00 AH

S 82° 32' 07" E
S-1467
AMELIA PL

BL-4
PI =35+21.36
POT=5+00.00
US 21 STA. 38+31.98
23.27' RT

EQUATION:
Sta 7+80.86 BK =
Sta 5+00.00 AH

N 46° 43' 05" E
S-1469 FERN FOREST CT
FERNFORESTBLN

MATCH LINE STA. 40+00.00 SEE SHEET NO. 5L

PC=11+57.55

SURVEY STA. 10+33.50 BEGIN
PROJECT ID 0042332
S-1469

SURVEY STA. 11+80.00 END
PROJECT ID 0042332
S-1467

SURVEY STA. 11+65.00 END
PROJECT ID 0042332
S-1469

N 78° 09' 08" E

PT=13+70.74
POT=8+33.24
POT=14+20.91

BL-104
POT=8+33.24
S-1467 STA. 13+48.27
14.66' RT

PC=12+52.80
MERCANTILE PL
S 83° 58' 13" E

SURVEY STA. 13+25.00 END
PROJECT ID 0042332
MERCANTILE PLACE

PT=14+08.45
N 6° 53' 17" W
POT=15+35.88

S-1467 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+20.91
S-1134 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 15+17.77
S-1469 RELOCATE CENTERLINE
STA. 10+36.18 TO STA. 12+14.79

LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 24+00 TO STA. 40+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5K

DocuSigned by: NORTH CAROLINA PROFESSIONAL ENGINEER CHRISTOPHER E CARLSTON No. 22780
1/11/2023
SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

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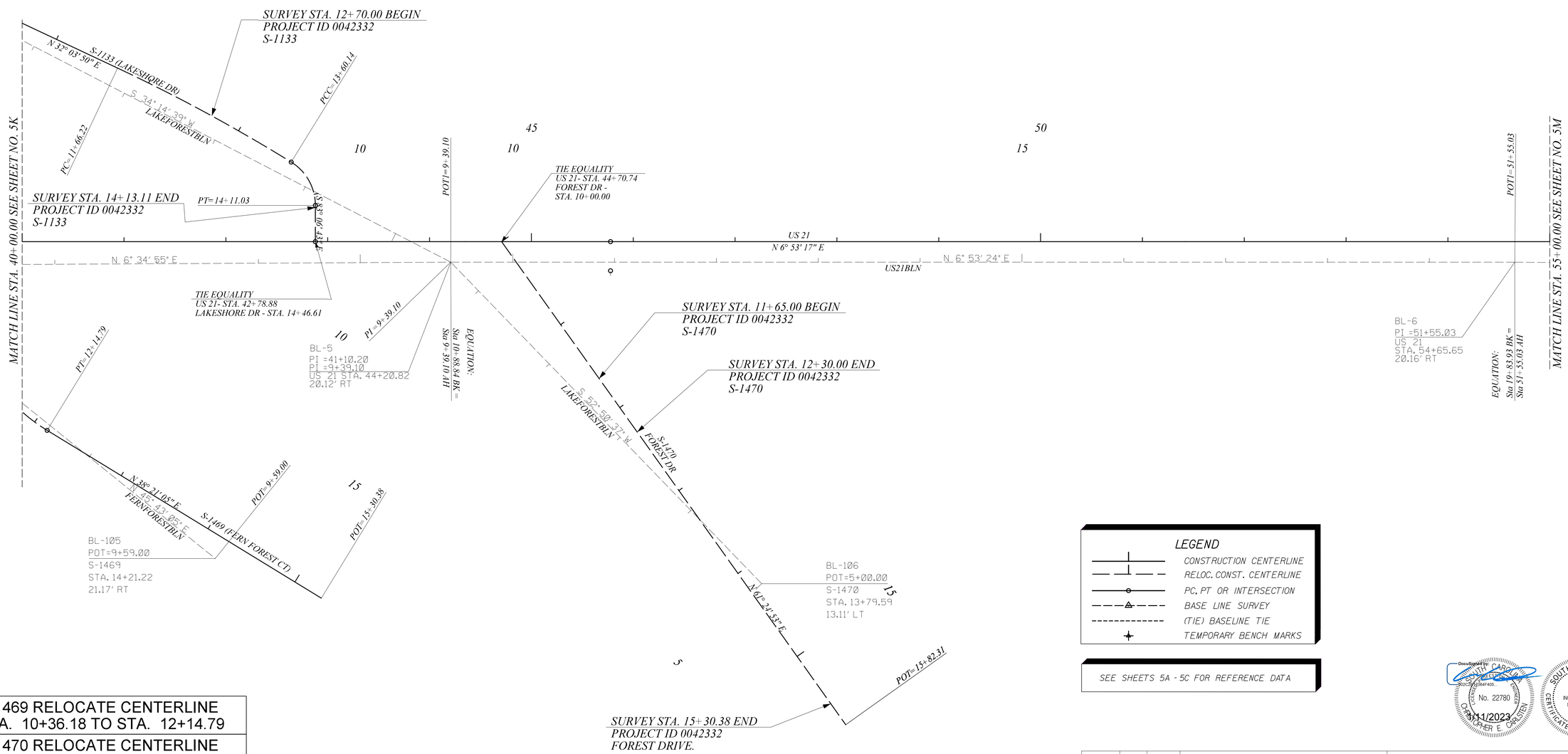
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5L



LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

S-1469 RELOCATE CENTERLINE	STA. 10+36.18 TO STA. 12+14.79
S-1470 RELOCATE CENTERLINE	STA. 10+00.00 TO STA. 15+82.31
S-1133 RELOCATE CENTERLINE	STA. 11+66.22 TO STA. 14+46.61

50 0 50 100
scale feet

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 40+00 TO STA. 55+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5L

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	5M

MATCH LINE STA. 28+00.00 SEE SHEET NO. 5I

MATCH LINE STA. 55+00.00 SEE SHEET NO. 5L

MATCH LINE STA. 70+00.00 SEE SHEET NO. 5N

MATCH LINE STA. 13+00.00 SEE SHEET NO. 5U

MATCH LINE STA. 16+00.00 SEE SHEET NO. 5O

BL-109
POT=17+59.73
US 21 STA. 59+05.04
105.78' LT
GOLD HILL RD
STA. 14+05.04
204.30' LT

PT=31+24.21

TBM 21D EL=649.45'
RR SPIKE SET IN 12" PINE
US 21
STA. 62+69.80
129.04' LT

S-1726 (GOLD HILL RD)

SURVEY STA. 32+39.84 END
PROJECT ID 0042332
S-1726

TIE EQUALITY
US 21- STA. 63+03.79
S-1726 -STA. 32+91.34

TIE EQUALITY
US 21 - STA. 63+11.29
US 21 BUSINESS - STA. 10+00.00

TIE EQUALITY
US 21- STA. 57+11.96
EMBASSY DR - STA. 10+00.00

S 30° 49' 12" W
OLD21GOLDBLN

POT=17+59.73

POT=14+34.09

S 83° 06' 43" E

US 21
N 6° 53' 17" E

PI=14+34.09

N 7° 21' 44" E

N 7° 48' 06" E

US21BLN

S 85° 02' 43" E
EMBASSY DR

SURVEY STA. 10+33.50 BEGIN
PROJECT ID 0042332
EMBASSY DRIVE

BL-7
PI =58+99.86
PI =14+34.09
US 21
STA. 62+10.45
26.32' RT
US 21 BUSINESS
STA. 10+26.32
93.34' RT

SURVEY STA. 10+53.05 BEGIN
PROJECT ID 0042332
US 21 BUSINESS.

EQUATION:
Sta 58+99.86 BK =
Sta 14+34.09 AH
OLD21GOLDBLN

US 21 BUSINESS
S 83° 06' 43" E

PC=11+36.36
PT=11+71.67

SURVEY STA. 11+42.00 END
PROJECT ID 0042332
EMBASSY DRIVE

POT=12+45.10

OLD NATION ROAD

LEGEND
- *CONSTRUCTION CENTERLINE*
- *RELOC. CONST. CENTERLINE*
- *PC, PT OR INTERSECTION*
- *BASE LINE SURVEY*
- *(TIE) BASELINE TIE*
- *TEMPORARY BENCH MARKS*

SEE SHEETS 5A - 5C FOR REFERENCE DATA

S-1726 RELOCATE CENTERLINE
STA. 15+45.08 TO STA. 32+91.33

US 21 BUS. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 20+17.53

scale 50 0 50 100 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 55+00 TO STA. 70+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5M

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSEN 3/11/2023

SOUTH CAROLINA STV INCORPORATED NO. C03398 CERTIFICATE OF AUTHORIZATION

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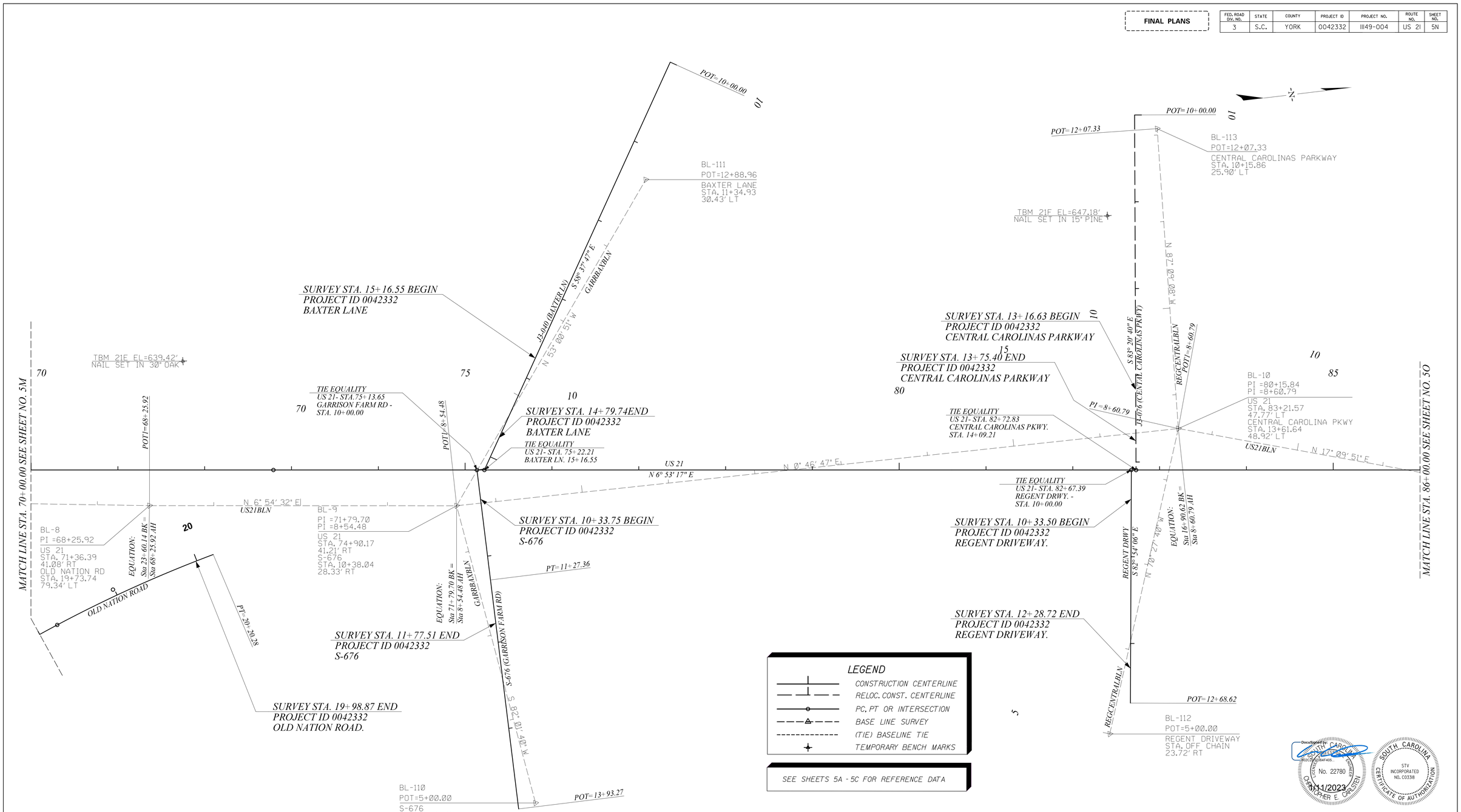
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5N



J3-076 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+09.21

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
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4969 CENTRE POINT DRIVE
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 70+00 TO STA. 86+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5N

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTEN
3/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

mastilig
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1/10/2023

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	50

N

TBM 216 EL=662.17'
NAIL SET IN 12" DOGWOOD
US 21
STA. 97+85.69
152.51' LT

90 95 100

15 95

MATCH LINE STA. 86+00.00 SEE SHEET NO. 5N

MATCH LINE STA. 102+00.00 SEE SHEET NO. 5P

TIE EQUALITY
US 21 STA 90+13.92
REGENT PKWY. STA 10+00.00

TIE EQUALITY
US 21- STA. 97+32.52
LAKES BLVD. 10+00.00

POT1=9+92.07

POT1=94+60.01

N 6° 53' 17" E

US 21

N 17° 09' 51" E
US21BLN

S 83° 06' 43" E

PC=10+58.46

POT=9+92.07

N 5° 06' 26" E
US21BLN

US21BLN N 9° 24' 47" E

15 10

BL-11
PI =86+67.42
POT=9+92.07
US 21
STA. 89+62.70
68.47' RT
REGENT PARKWAY
STA. 10+68.90
51.18' RT

BL-12
PI =94+60.01
US 21
STA. 97+55.37
43.52' RT
LAKES BLVD.
STA. 10+40.93
27.14' LT

PC=96+94.17

PT=99+94.64

SURVEY STA. 10+41.68 BEGIN
PROJECT ID 0042332
LAKES BLVD.

SURVEY STA. 10+53.64 BEGIN
PROJECT ID 0042332
REGENT PARKWAY

EQUATION:
Sta 15+12.37 BK =
Sta 9+92.07 AH

REGENTPKWYBLN

J3-107 (REGENT PKWY)

EQUATION:
Sta 17+84.67 BK =
Sta 94+60.01 AH

LAKES BLVD

S 76° 40' 35" E

SURVEY STA. 11+62.36 END
PROJECT ID 0042332
LAKES BLVD.

N 84° 25' 23" W

PT=13+50.00

POT=14+25.56

S 69° 31' 54" E

SURVEY STA. 15+25.00 END
PROJECT ID 0042332
REGENT PARKWAY

15

POT=15+83.55

US 21 RELOCATE CENTERLINE
STA. 94+94.30 TO STA. 101+94.41

LAKES BLVD. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+25.56

J3-107 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 18+64.05

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

Christopher E. Carsten — Docusigned by — 1/11/2023
No. 22780
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 86+00 TO STA. 102+00

SCALE 1"=50' RTE. US 21 DWG. NO. 50

mastiltg
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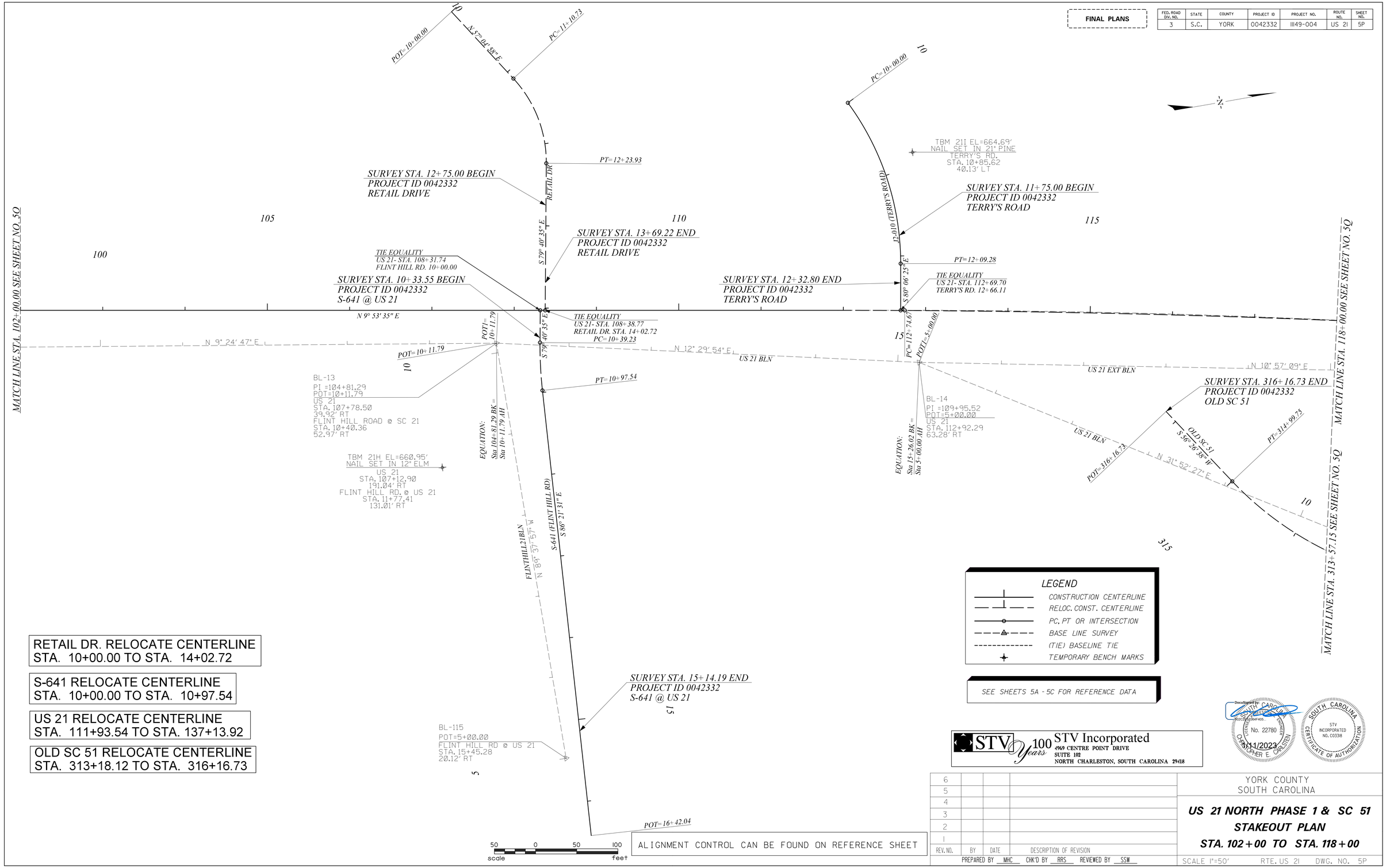
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5P



RETAIL DR. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+02.72

S-641 RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 10+97.54

US 21 RELOCATE CENTERLINE
STA. 111+93.54 TO STA. 137+13.92

OLD SC 51 RELOCATE CENTERLINE
STA. 313+18.12 TO STA. 316+16.73

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 102+00 TO STA. 118+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5P

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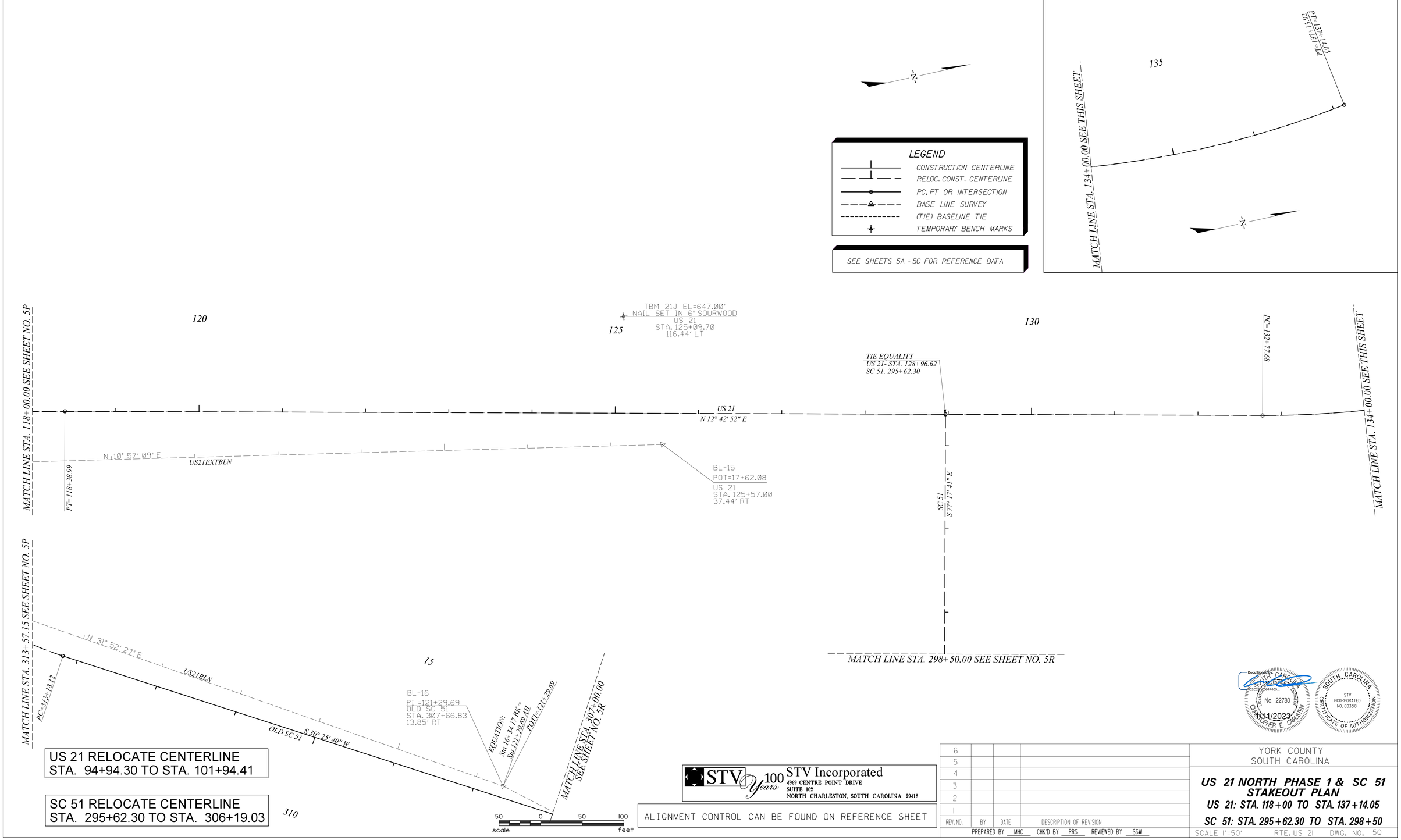
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5Q



US 21 RELOCATE CENTERLINE
STA. 94+94.30 TO STA. 101+94.41

SC 51 RELOCATE CENTERLINE
STA. 295+62.30 TO STA. 306+19.03

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 STAKEOUT PLAN

US 21: STA. 118+00 TO STA. 137+14.05

SC 51: STA. 295+62.30 TO STA. 298+50

SCALE 1"=50' RTE. US 21 DWG. NO. 5Q

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

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FINAL PLANS						
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	5R

TBM 51C EL=624.82'
NAIL SET IN 10" ELM
SC 51
STA. 308+65.36
116.98' LT

PI=134+11.00

MATCH LINE
STA. 311+00.00
SEE SHEET 5O

N 75° 14' 30" E

BL-18
PI =134+11.00
SC 51
STA. 309+25.74
14.62' RT

310

N 75° 15' 26" E

US21BLN

-N-

305

130

SC 51

N 73° 56' 09" E

TBM 51B EL=646.75'
NAILSET IN 15" PINE
SC 51
STA. 302+71.54
63.94' LT

PT=303+44.06

PI=128+04.22

300

TIE EQUALITY
SC 51- STA. 300+62.30
OLD SC 51 - STA. 302+05.00

BL-17
PI =128+04.22
SC 51
STA. 303+19.85
28.93' RT

PC=298+86.56

MATCH LINE STA. 298+50.00 SEE SHEET NO. 5O

S 7° 00' 16" W

SURVEY STA. 302+38.59 BEGIN
PROJECT ID 0042332
OLD SC 51

PC=302+87.65

125

OLD SC 51

N 39° 47' 23" E

US21BLN

305

PT=306+53.57

MATCH LINE STA. 307+00.00 SEE SHEET 5O

SURVEY STA. 15+60.00 BEGIN
PROJECT ID 0042332
S-48 CUL-DE-SAC

BL-118
POT=17+91.84

POT=17+91.84

15

SPRINGHILLBLN

N 68° 29' 30" W

TIE EQUALITY
SPRINGHILL FARM RD
STA.23+37.20
S-48 CUL-DE-SAC
STA. 16+64.58

S-48 (SPRINGHILL FARM ROAD)
CUL-DE-SAC

N 68° 29' 30" W

S 61° 48' 56" E

SPRINGHILLBLN

20

BL-117
PI =10+61.82
S-48 CUL-DE-SAC
STA. 14+82.27
21.23' LT

PI=10+61.82

10

N 40° 13' 32" W

MATCH LINE STA. 21+00.00
SEE SHEET 5S

S-48 (SPRINGHILL FARM ROAD)

S 28° 12' 42" W

51

SURVEY STA. 23+50.63 BEGIN
PROJECT ID 0042332
S-48

S-48 (SPRINGHILL FARM ROAD)

PT=24+82.06

25

-N-

MATCH LINE STA. 28+00.00 SEE SHEET 5S

LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

SC 51 RELOCATE CENTERLINE
STA. 295+62.30 TO STA. 306+19.03

OLD SC 51 RELOCATE CENTERLINE
STA. 302+05.00 TO STA. 306+53.57

TBM 51A EL=638.10'
NAIL SET IN 15" GUM
OLD SC 51
STA. 306+79.67
263.51' LT

scale 50 0 50 100 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

DocuSigned by: CHRISTOPHER E CARLSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E CARLSTEN
1/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 298+50 TO STA. 311+00

SCALE 1"=50' RTE. US 21 DWG. NO. 5R

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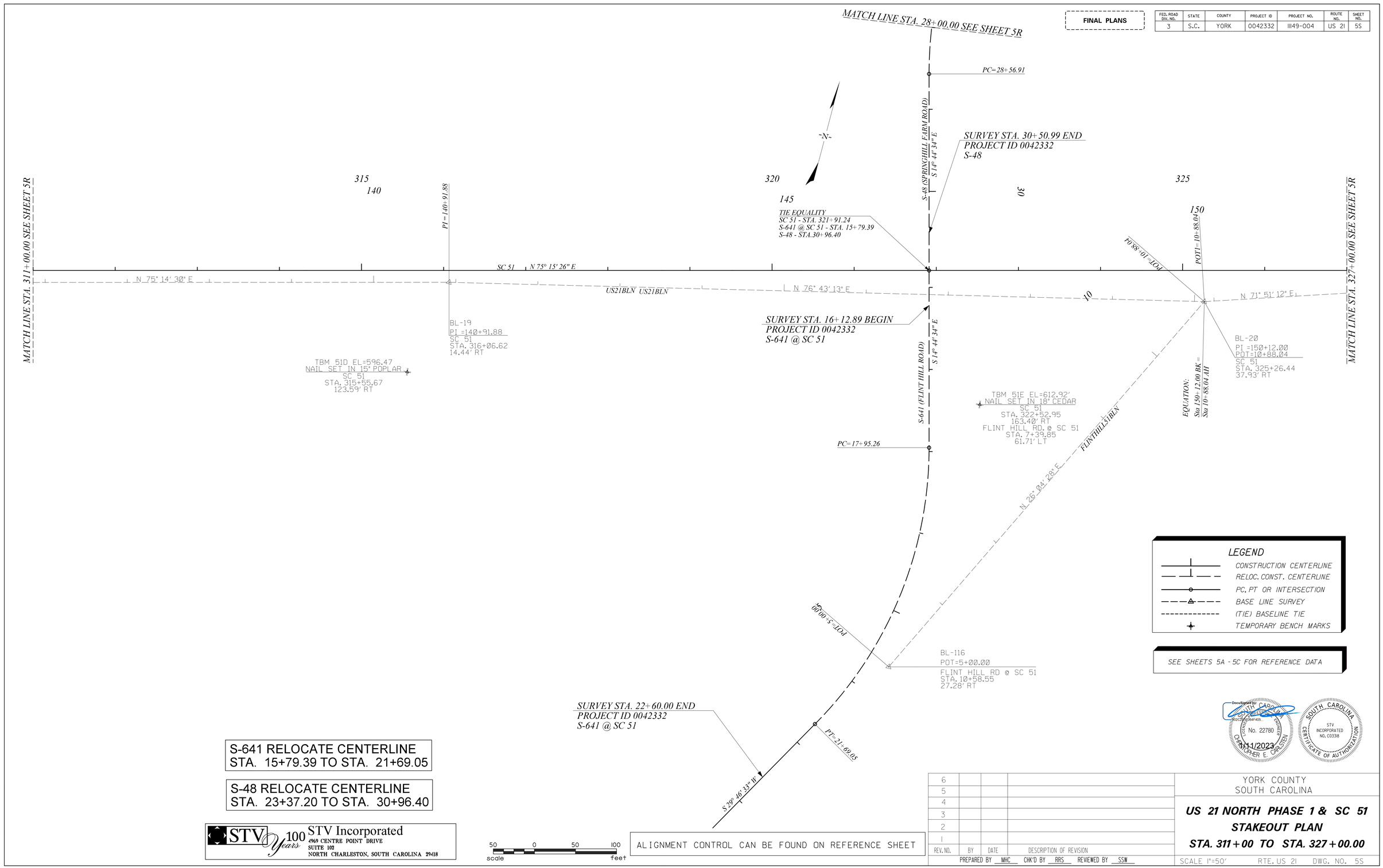
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	5S

FINAL PLANS



LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

S-641 RELOCATE CENTERLINE
STA. 15+79.39 TO STA. 21+69.05

S-48 RELOCATE CENTERLINE
STA. 23+37.20 TO STA. 30+96.40

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

50 0 50 100 scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 4/11/2023

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 311+00 TO STA. 327+00.00

SCALE 1"=50' RTE. US 21 DWG. NO. 5S

mastiltg
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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	5T

MATCH LINE STA. 21+00.00
SEE SHEET 5R

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)

SURVEY STA. 22+00.00 BEGIN
PROJECT ID 0042332
S-48 CUL-DE-SAC

SURVEY STA. 23+60.07 END
PROJECT ID 0042332
S-48 CUL-DE-SAC

N 40° 13' 32" W

SPRINGHILL BLN

330

SURVEY STA.00+37.38 BEGIN
PROJECT ID 0042332
S-328

S-328 (ANDREW L TUCKER RD)

ANDREW BLN

N 3° 04' 11" E

POT=5+94.04

SURVEY STA. 03+90.00 END
PROJECT ID 0042332
S-328

N 14° 34' 01" E

POT=9+13.13

BL-119
POT=9+13.13
S-328
STA. 3+94.03
24.62' RT

TBM 51F EL=614.23'
NAIL SET IN 28" OAK
SC 51
STA. 332+87.03
177.06' LT
S-328
STA. 1+75.64
44.00' LT

335

MATCH LINE STA. 327+00.00 SEE SHEET 5S

N 71° 51' 12" E

N 79° 00' 09" E

POT= 5+00.00

POT= 5+00.00

POT= 5+00.00

POT= 5+00.00

US21BLN

BL-21
PI =153+90.06
POT=5+00.00
SC 51
STA. 329+03.83
15.48' RT

EQUATION:
Sta 14+66.10 BK =
Sta 5+00.00 AH

PC= 331+10.29

TIE EQUALITY
SC 51- STA. 332+50.28
ANDREW L TUCKER RD -
STA. 0+00.00

BL-22
PI =157+82.34
POT=5+00.00
SC 51
STA. 332+97.70
35.05' RT

EQUATION:
Sta 8+92.28 BK =
Sta 5+00.00 AH

PT= 335+62.41

POT= 162+19.82

BL-23
PI =162+19.82
SC 51
STA. 337+37.70
16.33' RT

EQUATION:
Sta 9+37.48 BK =
Sta 162+19.82 AH

340

SURVEY STA.340+10.00 END
PROJECT ID 0042332
SC 51

N 84° 17' 59" E

N 88° 15' 45" E

SC 51

N 88° 24' 49" E

US21BLN

(TIE)
N 76° 34' 55" W
138.54'

165

BM 45 EGB EL=620.23'
USGS MONUMENT
SC 51
STA. 340+05.15
45.98' LT

PI= 166+24.73

POT= 342+91.40

N 85° 39' 43" E

BL-24
PI =166+24.73
SC 51
STA. 341+41.57
45.37' RT

MATCH LINE (BLN)
STA. 168+00.00 SEE THIS SHEET

TBM 51G EL=617.71'
MASON NAIL SET IN ASPHALT AT
SW CORNEROF TRAFFIC ISLAND
SC 51
STA. 338+00.46
170.06' RT

170

MATCH LINE (BLN)
STA. 168+00.00 SEE THIS SHEET

N 85° 39' 43" E

US21BLN

POT=171+89.44

BL-25
POT=171+89.44

-N-

-N-

LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLTON
SEC2C8E3B6F405...
4/11/2023

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
STA. 327+00 TO STA. 342+91.40

SCALE 1"=50' RTE. US 21 DWG. NO. 5T

mastiltg
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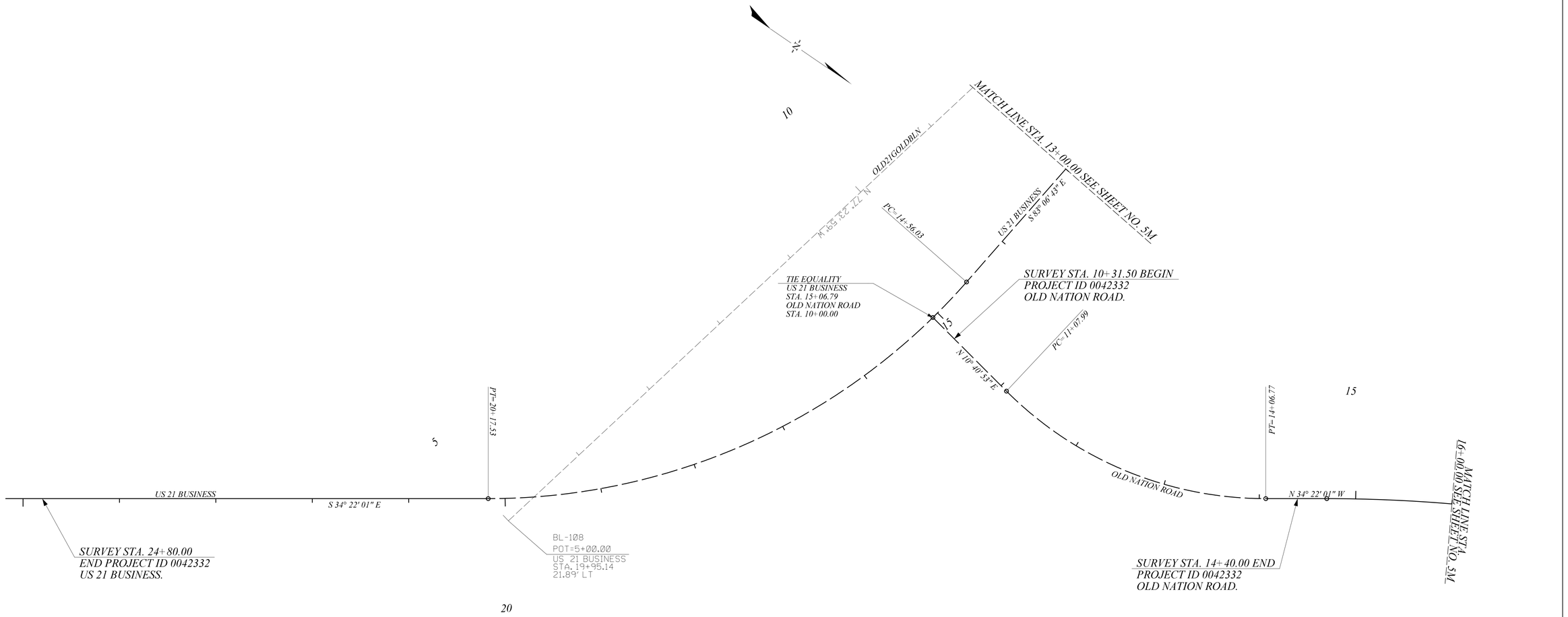
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	5U



LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

US 21 BUS. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 20+17.53

OLD NATION RD. RELOCATE CENTERLINE
STA. 10+00.00 TO STA. 14+06.77

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Digitally signed by CHRISTOPHER E. OBRIEN
No. 22780
4/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

STAKEOUT PLAN
US 21 BUSINESS

SCALE 1"=50' RTE. US 21 DWG. NO. 5U

mastiltg
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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	5V

N

N 53° 33' 27" E

SURVEY STA. 14+00.00 BEGIN
PROJECT ID 0042332
S-1726

15

PC = 15+45.08

20

PT = 19+69.81

25

N 6° 53' 17" E
S-1726 (GOLD HILL ROAD)

PC = 23+38.82

MATCH LINE STA. 28+00.00 SEE SHEET NO. 5M

LEGEND

- CONSTRUCTION CENTERLINE
- RELOC. CONST. CENTERLINE
- PC, PT OR INTERSECTION
- BASE LINE SURVEY
- (TIE) BASELINE TIE
- TEMPORARY BENCH MARKS

SEE SHEETS 5A - 5C FOR REFERENCE DATA

S-1726 RELOCATE CENTERLINE
STA. 15+45.08 TO STA. 32+91.33

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Docusigned by: SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CHRISTEN
3/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03398
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
STAKEOUT PLAN
S-1726
STA. 14+00.00 TO STA. 28+00.00

SCALE 1"=50' RTE. US 21 DWG. NO. 5V

mastlitg
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COMPANY	CONTACT	PHONE NO.
POWER - E1	We Dover	803-628-5564
York Electric Corporation	PO Box 150	
	1385 A. Alexander Love Hwy	803-627-0824
	York, SC 29745	
	Wes.Dover@yorkelectric.net	
POWER - E2 (TRANS)	Stephen Lord	704-812-2316
Duke Energy	526 South Church St.	
	Charlotte, NC 28202	
	Stephen.Lord@duke-energy.com	
POWER - E2 (Distribution)	No Contact assigned. "No Conflict" email	
Duke Energy	came from highway.relocation@duke-	
NO CONFLICT	energy.com (Dominique Boon)	
POWER - E3 (Distribution)	Jimmy Tindal	803-255-8810
Central Electric Power		
Cooperative	20 Cooperative Way	
NO CONFLICT	Columbia, SC 29210	803-606-4581
	jtindal@cepci.org	
TELECOM - T1	Eric Kirkland	803-326-6109
Comporium	471-A Lakeshore Pkwy	
	Rock Hill, SC 29730	
	eric.kirkland@comporium.com	
TELECOM - T2	Matt McClain	704-378-2194
Duke Net Legacy (Charter)	3140 West Arrowood Road	
	Charlotte, NC 28273	980-428-5092
	matt.mcclain@charter.com	
TELECOM - T3	Jamie Riggins	864-574-8608
AT&T	100 Belton Drive	
No Conflict for Distribution	Spartanburg, SC 29301	
TELECOM - T4	Wanita Brenes	910-551-8838
Level 3 Communications	227 Robeson Street	
(Lumen)	Fayetteville NC 28301	
	wanita.brenes@lumen.com	
TELECOM - T5	Brandon Carter	704-779-9322
Zayo Fiber	125 North Myers Street	
	Charlotte, NC 28202	
	Brandon.Carter@zayo.com	
TELECOM - T6	Corey Thomas	501-297-9085
MCI Communications		
(Verizon)		
	corey.thomas@verizon.com	
TELECOM - T7	Daniel Honeycutt	704-849-1358
Windstream Communications		
	Daniel.Honeycutt@windstream.com	704-579-7897

COMPANY	CONTACT	PHONE NO.
TELECOM - TV1	Eric Kirkland	803-326-6109
Comporium	471-A Lakeshore Pkwy	
	Rock Hill, SC 29730	
	eric.kirkland@comporium.com	
TELECOM - TV2	Matt McClain	704-378-2194
Time Warner	3140 West Arrowood Road	
Communications	Charlotte, NC 28273	980-428-5092
	matt.mcclain@charter.com	
GAS - G1	Eric Cellucci	803-323-5392
York County Natural Gas	979 W. Main st.	
	Rock Hill, SC 29731	803-627-4410
	eric.cellucci@ycnga.com	
WATER - W1	David Hughes (Bert Becton STV Designer)	803-628-3211
York County Water and	6 South Congress St.	
Sewer	York, SC 29745	
Sewer - S1	David Hughes (Bert Becton STV Designer)	803-628-3211
York County Water and	6 South Congress St.	
Sewer	York, SC 29745	
Water - W2	Dottie Carter (Bert Becton STV Designer)	(803) 548-0398
Fern Forest Water Company		
TRAFFIC CONTROL - TF1	John Huskins	803-324-3545
SCDOT	338 Robertson Rd. West	Ext. 25
	Rock Hill, SC 29730	

CONTRACTOR TO CONST. PED RAMP PER (ALL SHEETS):

- (PED 1) STD DWG 720-929-02 DETAIL 2 VARIENT A W/ DWS
- (PED 2) STD DWG 720-929-02 DETAIL 2 VARIENT B W/ DWS
- (PED 3) STD DWG 720-929-02 DETAIL 2 VARIENT C W/ DWS
- (PED 4) STD DWG 720-929-02 DETAIL 1 VARIENT B W/ DWS
- (PED 5) STD DWG 720-952-11 DETAIL 2 W/ DWS
- (PED 6) STD DWG 720-952-11 DETAIL 2 W/O DWS
- (PED 7) STD DWG 720-955-40 W/ DWS
- (PED 8) STD DWG 720-963-13 W/ DWS

TIE- EQUALITY
(1) STA. 14+45.18 US 21 =
STA. 68+28.35 SC 460

EXIST PAVEMENT REPLACEMENT

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	6

MATCH LINE STA. 66+00.00 SEE SHEET NO. 30

SURVEY STA. 14+78.91
BEGIN PROJECT ID 0042332
US 21 (N HWY 21 BYPASS)
MATCH EXISTING PAVEMENT

N 6° 53' 17" E
US 21 (N HWY 21 BYPASS)
76° 53' 44"

SC 460 (SPRINGFIELD PKWY.)
N 83° 41' 01" E

NOTE: OBTAIN NEW R/W FOR YORK CO. PROJ. NO. 17228-015/ SCDOT PROJECT ID P039235

MATCH LINE STA. 70+75.00 SEE SHEET NO. 30

MATCH LINE STA. 20+00.00 SEE SHEET NO. 7

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D6 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

STA. 14+78.91 TO STA. 44+50.00			
	UNCLASSIFIED =	3800 C.Y.	
	BORROW =	47962 C.Y.	
EXE. =	3800 C.Y.	EMB. =	36894 C.Y.
BOR. =	47962 C.Y.	+30% =	11068 C.Y.
		WASTE =	3800 C.Y.
SUBTOTAL =	51762 C.Y.	SUBTOTAL =	51762 C.Y.
LESS =	47962 C.Y.	LESS =	47962 C.Y.
TOTAL =	3800 C.Y.	TOTAL =	3800 C.Y.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years — STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

SURVEY STA. 14+78.91
BEGIN PROJECT ID 0042332
US 21 (N HWY 21 BYPASS)
MATCH EXISTING PAVEMENT
ELEV 617.16'

FINISHED GRADE
EXISTING GRADE

VPI = 16+00.00
Elev. = 616.42
200' V.C.
SSD = 1724'
K = 301

VPI = 19+00.00
Elev. = 612.60
200' V.C.
K = 1693'

(-) 0.61% (-) 1.27% (-) 1.27% (-) 1.16%

(+) 00 617.03 VPC
(+) 00 615.15 VPT
(+) 00 613.87 VPC
(+) 00 611.44 VPT

10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00
618.08	618.74	619.18	619.33	619.45	619.20	618.85	618.53	617.99	617.52	617.00
										617.03
										616.34
										616.69
										615.62
										616.26
										614.99
										615.74
										614.42
										615.15
										613.90
										614.51
										613.32
										613.87
										612.71
										613.24
										612.13
										612.63
										611.72
										612.03
										611.10
										611.44

650 640 630 620 610 600 590 580 570 560

Digitally signed by CAROLINE E. SOLESBEE
No. 22780
6/11/2023
STV INCORPORATED NO. C03308 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	JDS	3/24/2020	TRACT 12: REVISED SLOPES/DITCHES
2	JDS	3/2/2020	MOVED STOP BAR AT US 21/SPRINGFIELD WAY.
1	MHC	9/23/2019	REVISED TYPICAL SECTION ALONG TRs 9-17

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5	TOM	9/9/2020	TRACT 10: ADDED NEW R/W
4	JDS	7/22/2020	TRACT 9: ADDED NEW R/W

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	7

FINAL PLANS

CONST. PREMASH TRAILING W-BEAM TYPE B
CONST. 75 LF PREMASH W-BEAM STRONG POST WSP3
CONST. 37.5 LF PREMASH W-BEAM
TIGHT CURVE SYSTEM (26.7'R)
SEE SHEET 8 FOR MAINLINE GUARDRAIL NOTES

CONST. 312.5 LF MGS2C GUARDRAIL
CONST. TYPE MT3 LEADING END TREATMENT
CONST. TYPE MB TRAILING END TREATMENT
CONTRACTOR TO ADJUST FILL SLOPE
SEE NOTE A FOR DETAILS.

SURVEY STA.10+33.50
BEGIN PROJECT ID 0042332
MERCANTILE PLACE
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.13+85.00
BEGIN PROJECT ID 0042332
S-1134 (LAKE VIEW ROAD)
MATCH EXISTING PAVEMENT

SURVEY STA.11+40.00
END PROJECT ID 0042332
MERCANTILE PLACE
MATCH EXISTING PAVEMENT

SURVEY STA.14+84.26
END PROJECT ID 0042332
S-1134 (LAKE VIEW ROAD)
MATCH PROPOSED US 21 PAVEMENT

CONST. 287.5 LF MGS2C GUARDRAIL
CONST. TYPE MT3 LEADING END TREATMENT
CONST. TYPE MB TRAILING END TREATMENT

RELOCATE S-1134 CENTERLINE
STA. 10+00.00 TO STA. 15+17.77

NOTE: BLOCK WALL SHALL MATCH EXISTING BLOCK WALL AND BE CONSTRUCTED AT R/W LINE ON PROPERTY OWNER'S SIDE AS DIRECTED BY THE ENGINEER.

NOTE A:
CONTRACTOR TO ADJUST FILL SLOPE NO STEEPER THAN 1.5:1 BETWEEN STA 22+20 TO STA 22+40 TO AVOID IMPACT TO TRANSMISSION POLE. UP-1 SLOPE SHOWN BETWEEN STA 22+25 TO STA 22+35. CONTRACTOR SHALL REINFORCED SLOPES STEEPER THAN 2:1 PER SCDOT SC-M-206-1 & SC-M-203-2

MATCH LINE STA. 20+00.00 SEE SHEET NO. 6

MATCH LINE STA. 35+00.00 SEE SHEET NO. 8

EXIST PAVEMENT REPLACEMENT

TIE- EQUALITY
(2) STA. 27+92.17 US 21 =
STA. 10+00.00 MERCANTILE PLACE
(3) STA. 32+16.97 US 21 =
STA. 15+17.77 S-1134

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 26 FOR MERCANTILE PLACE PROFILE
SEE SHEET 26 S-1134 (LAKEVIEW RDJ PROFILE
SEE SHEET D7 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

FINISHED GRADE
EXISTING GRADE
(-) 1.16%
(-) 1.23%
VPI = 28+00.00
Elev. = 602.19'
SSD = 14932'
K = 1860
135' V.C.
(+32.50) 602.97 VPC
(+67.50) 601.36 VPT

HYDROLOGY DATA:
D.A. = 0.10sq.mi. = 64.3 ac.
Q50 = 205 cfs
Vel. = 15.64 ft/sec
50Year H.W. Elev. = 570.77 ft.
Including 5.9 ft. Headwater
Q100 = 232 cfs
Vel = 16.08 ft/sec
100 Year H.W. Elev. = 571.48 ft.
Including 6.6 ft. Headwater
OVERTOPPING FLOOD:
Q = 656.83 cfs
Probability = less than 0.2%

5'x5' EXISTING BOX CULVERT
STA. = 33+79
INV. ELEV. = 563.79

Professional Engineer
No. 22780
11/1/2023
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1	JDS	08/04/2008	TRACT 2b: INCREASED OBTAIN AREA
2	MWC	09/23/2009	REVISED TYPICAL AND R/W ALONG TRs 9-17
3	MWC	10/4/2009	REMOVED OBTAIN FROM TR 14
4	MWC	9/02/2009	ADDED NOTE FOR RETAINING WALL TO TR 20
5	JDS	2/06/2020	REMOVED/REDUCED OBTAIN ON TR 18 & 20
6	JDS	2/17/2020	REDUCED OBTAIN ON TR 17
7	JDS	2/24/2020	REVISED SLOPES/DITCHES ON TRs 12 & 18
8	JDS	2/24/2020	ADDED WALL EXCAVATION LIMITS ON TRACT 20
13	TGM	9/4/2020	REVISED R/W & ADDED TR NO. - TR 9, 9A
12	TGM	6/16/2020	ADDED TCE - TR 22
11	TGM	3/6/2020	REVISED NEW R/W & ADDED TR NO. - TR 22, 21B, 21A
10	TGM	2/24/2020	CONVERTED NEW R/W TO TCE - TR 17
9	JDS	7/22/2020	TRs 15c CHANGED R/W TO PERM. DRAINAGE EASEMENT.
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
14	TGM	10/3/20	ADDED TR NO. 21B
15	TGM	12/22/20	REVISED TCE TO INCLUDE PERM DRAINAGE EASMT - TR 17
16			
17			
18			

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	8

RELOCATE S-1467 CENTERLINE STA. 10+00.00 TO STA. 14+20.91	RELOCATE S-1133 CENTERLINE STA. 11+66.22 TO STA. 14+46.61
RELOCATE S-1469 CENTERLINE STA. 10+36.18 TO STA. 12+14.79	RELOCATE S-1470 CENTERLINE STA. 10+00.00 TO STA. 15+82.31

TIE- EQUALITY
(4) STA. 35+94.86 US 21 = STA. 10+00.00 S-1467
(5) STA. 39+40.82 US 21 = STA. 10+00.00 S-1469
(6) STA. 42+87.88 US 21 = STA. 14+46.61 S-1133
(7) STA. 44+70.74 US 21 = STA. 10+00.00 S-1470

REMOVE EXISTING PAVEMENT
MILLING/RESURFACING

CONST. PREMASH TRAILING W-BEAM TYPE B
CONST. 75 LF PREMASH W-BEAM
MEDIUM SHOE BENT SYSTEM (54.6' R)
SEE SHEET 8 FOR MAINLINE GUARDRAIL NOTE

CONST. 925 LF PREMASH W-BEAM STRONG POST WSP3

SURVEY STA.12+ 70.00
BEGIN PROJECT ID 0042332
S-1133 (LAKE SHORE DRIVE)
MATCH EXISTING PAVEMENT

SURVEY STA.14+ 13.11
END PROJECT ID 0042332
S-1133 (LAKE SHORE DRIVE)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.10+ 33.50
BEGIN PROJECT ID 0042332
S-1467 (AMELIA DRIVE)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.10+ 33.50
BEGIN PROJECT ID 0042332
S-1469 (FERN FOREST CT.)
MATCH PROP. US 21 PVMT

SURVEY STA.11+ 80.00
END PROJECT ID 0042332
S-1467 (AMELIA DRIVE)
MATCH EXISTING PAVEMENT

SURVEY STA.11+ 63.00
END PROJECT ID 0042332
S-1469 (FERN FOREST CT.)
MATCH EXISTING PAVEMENT

SURVEY STA.11+ 65.00
BEGIN PROJECT ID 0042332
S-1470 (FOREST DRIVE)
MATCH EXISTING PAVEMENT

SURVEY STA.12+ 30.00
END PROJECT ID 0042332
S-1470 (FOREST DRIVE)
MATCH EXISTING PAVEMENT

CONST. PREMASH TRAILING W-BEAM TYPE B BOTH ENDS
CONST. 425 LF PREMASH W-BEAM STRONG POST WSP3
CONST. 75 LF PREMASH W-BEAM
TIGHT CURVE SYSTEM (38.3' R)

MATCH LINE STA. 35+ 00.00 SEE SHEET NO. 7
MATCH LINE STA. 50+ 00.00 SEE SHEET NO. 9

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 26 FOR S-1467 PROFILE
SEE SHEET 26 FOR S-1469 PROFILE
SEE SHEET 27 FOR S-1133 PROFILE
SEE SHEET DB FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

US 21 (N HWY 21 BYPASS)

STA. 44+50.00 TO STA. 74+50.00

UNCLASSIFIED =	16245 C.Y.		
BORROW =	21880 C.Y.		
EXE. =	16245 C.Y.	EMB. =	16831 C.Y.
BOR. =	21880 C.Y.	+30% =	5049 C.Y.
		WASTE =	16245 C.Y.
SUBTOTAL =	38125 C.Y.	SUBTOTAL =	38125 C.Y.
LESS =	21880 C.Y.	LESS =	21880 C.Y.
TOTAL =	16245 C.Y.	TOTAL =	16245 C.Y.

HYDROLOGY DATA:
D.A. = 0.142sq.mi. = 90.9 ac.
Q50 = 249 cfs
Vel. = 14.65 ft/sec
50Year H.W. Elev. = 574.56 ft.
Including 7.1 ft. Headwater
Q100 = 281 cfs
Vel = 15.06 ft/sec
100 Year H.W. Elev. = 575.56 ft.
Including 8.1 ft. Headwater
OVERTOPPING FLOOD:
Q = 539.95 cfs
Probability = less than 0.2%

VPI = 41+00.00
Elev. = 586.22
K = 106
430' V.C.

(-) 85) 588.86 VPC
(+) 15) 592.31 VPT

LOW POINT
40+ 15.01
ELEV. = 588.06

(-) 1.23%
(+) 2.84%

FINISHED GRADE
EXISTING GRADE

5'x5' EXISTING BOX CULVERT
STA. = 41+06
INV. ELEV. = 566.73

35+00	36+00	37+00	38+00	39+00	40+00	41+00	42+00	43+00	44+00	45+00	46+00	47+00	48+00	49+00	50+00
592.83 / 593.59	592.29 / 592.98	591.64 / 592.36	590.92 / 591.75	590.32 / 591.13	589.66 / 590.52	589.01 / 589.90	588.46 / 589.29	587.95 / 588.68	587.49 / 588.26	587.28 / 588.07	587.42 / 588.12	587.81 / 588.40	588.40 / 588.92	589.13 / 589.68	590.02 / 590.67	591.00 / 591.90	592.31 / 593.31	593.79 / 594.72	595.32 / 596.14	596.83 / 597.56	598.30 / 598.98	599.74 / 600.39	601.18 / 601.81	602.58 / 603.23	604.01 / 604.65	605.45 / 606.07	606.87 / 607.48	608.29 / 608.90	609.74 / 610.32	611.20 / 611.74

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5	TGM	06/16/2021	ADJUST NPDES TO REMOVE PERMISSION - TR 22
4	TGM	03/16/2020	REVISED NEW R/W & ADDED TR 22-40 & 40A
3	JDS	05/30/2019	TRACT 53: REMOVED TCEs
2	MHC	1/10/2018	TRACT 53: ADDED TCE TO COVER PERMISSIONS
1	JDS	08/14/2018	TRACT 21: INCREASED OBTAIN AREA
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Digitally signed by CHRISTOPHER E. SOLESTEN
Date: 2023.01.11 08:46:46 -05'00'
No. 22780
1/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03308
CERTIFICATE OF AUTHORIZATION

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1/10/2023

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SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 27 FOR EMBASSY DRIVEWAY PROFILE
SEE SHEET D9 FOR DRAINAGE

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	9

EXIST. PAVEMENT REPLACEMENT
REMOVE EXISTING PAVEMENT

TIE- EQUALITY
STA. 57+11.96 US 21 =
STA. 10+00.00 EMBASSY DRIVE
STA. 63+03.79 US 21 =
RELOC. STA. 32+91.34 S-1726
STA. 63+11.29 US 21 =
STA. 10+00.00 RELOC. US 21 BUSINESS

RELOCATE S-1726 CENTERLINE STA. 15+45.08 TO STA. 32+91.33

RELOCATE US 21 BUSINESS CENTERLINE STA. 10+00.00 TO STA. 20+17.53

MATCH LINE STA. 50+00.00 SEE SHEET NO. 8

MATCH LINE STA. 31+00.00 S-1726 (GOLD HILL ROAD) SEE SHEET NO. 19

MATCH LINE STA. 65+00.00 SEE SHEET NO. 10

MATCH LINE STA. 12+50.00 US 21 BUSINESS SEE SHEET NO. 20

EXISTING S-1726 (GOLD HILL ROAD)
PRES. 33' R/W (FILE #46,635) DB
PRES. 50' R/W (FILE #46,240) DB
PRES. VAR. R/W (FILE #46,635) DB
NEW 65' R/W
NEW 60' R/W
NEW 75' R/W
NEW 75.3' R/W
US 21
N 6°53'17" E
15' PAINTED MEDIAN
4' PAINTED MEDIAN
2' CONCRETE MEDIAN
CONSTRUCT 5' SIDEWALK
CONSTRUCT 2' C&G
DED. 20' UTILITY ESMT. (PB. E-153 PG. 10) DB
DED. 75' R/W (YORK COUNTY)
180' LANE TAPER RT
SURVEY STA. 10+33.52
BEGIN PROJECT ID 0042332
EMBASSY DRIVEWAY (PRIVATE)
MATCH PROPOSED US 21 PAVEMENT
PC= 11+36.36
PT= 11+71.67
SURVEY STA. 11+45.00
END PROJECT ID 0042332
EMBASSY DRIVEWAY (PRIVATE)
MATCH EXISTING PAVEMENT
POT= 12+45.10
SURVEY STA. 32+39.84
END PROJECT ID 0042332
S-1726 (GOLD HILL ROAD)
MATCH PROPOSED US 21 PAVEMENT
PT= 31+24.21
SURVEY STA. 10+53.05
BEGIN PROJECT ID 0042332
RELOC. US 21 BUSINESS (OLD NATION ROAD) 4' PAINTED MEDIAN
MATCH PROPOSED US 21 PAVEMENT
TEMP. CONST. EASE
NEW TRANS. R/W
DED. 47' YORK COUNTY R/W (TM 719-00-00-027) DB
YORK COUNTY WATER AND SEWER EASEMENT (DB 11019 PG 227) DB
250' STORAGE
275' STORAGE
300' STORAGE
150' STORAGE
710' STORAGE
524' STORAGE
650' STORAGE
CONST. PREMASH TYPE T TL3 LEADING 50FT
CONST. 587.5 LF PREMASH W-BEAM STRONG POST WSP3
CONST. 50 LF PREMASH W-BEAM TIGHT CURVE SYSTEM (32.1' R)
CONST. PREMASH TRAILING W-BEAM TYPE B

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

HIGH POINT
STA. 62+65.06
ELEV. = 642.15
(+) 2.84%
(-) 1.29%
FINISHED GRADE
EXISTING GRADE
(+80) 636.69 VPC
(+40) 641.03 VPT
VPI = 61+60.00
Elev. = 644.63
SSD = 541'
K = 136
560' V.C.

STA.	
50+00	611.20 / 611.74
51+00	612.54 / 613.16
52+00	613.95 / 614.57
53+00	615.41 / 615.99
54+00	616.86 / 617.41
55+00	618.28 / 618.83
56+00	619.67 / 620.25
57+00	621.05 / 621.66
58+00	622.41 / 623.08
59+00	623.84 / 624.50
60+00	625.26 / 625.92
61+00	626.71 / 627.34
62+00	628.19 / 628.75
63+00	629.63 / 630.17
64+00	631.06 / 631.59
65+00	632.48 / 633.01
	633.92 / 634.42
	635.32 / 635.84
	636.68 / 637.25
	637.91 / 638.50
	638.98 / 639.57
	639.79 / 640.45
	640.45 / 641.15
	640.96 / 641.67
	641.32 / 642.00
	641.32 / 642.14
	641.50 / 642.11
	641.31 / 641.89
	640.92 / 641.48
	640.39 / 640.90
	639.71 / 640.25

Prepared by: CAROLYN E. GRAUTEN
No. 22780
5/11/2023
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1	JDS	5/25/2008	EXTENDED SIDEWALK ALONG TRACT 54 ON US 21BUS
2	MHC	8/01/2008	TRACT 53: ADDED TCE TO COVER PERMISSIONS
3	MHC	05/20/2009	TRACT 53: REMOVED TCE
4	TGM	04/13/2022	TRACT 55: ADDED TCE & REMOVED PERMISSION
5	TGM	07/19/2022	TRACT 54B: ADDED TRACT NO.
6			

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REV.NO.	BY	DATE	DESCRIPTION OF REVISION
15	TGM	7/19/22	REVISED R/W TO 65 & 65A, ADDED TRACT NO. - TR 73A ADDED PUE FOR MITIGATION - TR 80
14	TGM	4/13/22	ADDED TCE & REMOVED PERMISSION - TR 55
13	TGM	9/14/21	REVISED NEW R/W - TR 71
12	TGM	5/6/21	ADDED DRIVEWAY - TR 80
11	TGM	3/24/21	REVISED R/W FOR MASH & ADD TR - TR 65,65A
10	TGM	2/16/21	REVISED DRIVEWAY TR. 66 AND CONC MEDIAN
9	TGM	9/3/20	REVISED NEW R/W & ADDED DRIVEWAY TO TR. 73
8	JDS	7/23/20	REMOVED YARD INLET ON TR. 66
REV.NO.	BY	DATE	DESCRIPTION OF REVISION

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
7	MHC	1/12/9	REVISED OBTAINS & DRAINAGE ON TRs 63 & 66
6	MHC	9/25/9	REMOVED TURN LANE AND REVISED RW ON TR 74
5	MHC	9/20/9	REVISED RW AROUND TR 66
4	MHC	5/2/9	REVISED OBTAIN ON TRACT 80

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
3	MHC	5/19/09	REVISED EX. R/W & OBTAIN ON TRACTS 55 & 80
2	JDS	6/2/08	TR. 72,73,74: REVISED SLOPES/NPDES
1	JDS	10/5/08	TR. 72,73,74: REMOVED GUARDRAIL/REVISED SLOPES

EXIST PAVEMENT REPLACEMENT — REMOVE EXISTING PAVEMENT — MILLING/RESURFACING

TIE- EQUALITY
(11) STA. 75+13.65 US 21 = STA. 10+00.00 S-676
(12) STA. 75+22.21 US 21 = STA. 15+16.55 J3-040

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	10

MATCH LINE STA. 65+00.00 SEE SHEET NO. 9

MATCH LINE STA. 80+00.00 SEE SHEET NO. 11

CONST. 325 LF MGS2C GUARDRAIL
CONST. TYPE MT3 LEADING END TREATMENT
CONST. TYPE MB TRAILING END TREATMENT

270' CENTER TAPER
CONST. PREMASH TRAILING W-BEAM TYPE B BOTH ENDS
CONST. 187.5 LF PREMASH W-BEAM STRONG POST WSP3
CONST. 62.5 LF PREMASH W-BEAM
MEDIUM SHOP BENT SYSTEM (60.4' R)

SURVEY STA.13+ 75.00
BEGIN PROJECT ID 0042332
J3-040 (BAXTER LANE)
MATCH EXISTING PAVEMENT

SURVEY STA.14+ 79.74
END PROJECT ID 0042332
J3-040 (BAXTER LANE)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA. 18+ 20.00
PROJECT ID 0042332
OLD NATION ROAD
END MILL AND RESURFACING
BEGIN NEW PAVEMENT CONSTRUCTION
MATCH EXISTING PAVEMENT

SURVEY STA. 19+ 98.87
END PROJECT ID 0042332
OLD NATION ROAD
MATCH EXISTING PAVEMENT

SURVEY STA.10+ 33.75
BEGIN PROJECT ID 0042332
S-676 (GARRISON FARM ROAD)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.11+ 77.51
END PROJECT ID 0042332
S-676 (GARRISON FARM ROAD)
MATCH EXISTING PAVEMENT

CONST. 112.5 LF MGS2C GUARDRAIL
CONST. TYPE MT3 LEADING END TREATMENT
CONST. TYPE MB TRAILING END TREATMENT

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 27 FOR S-676 PROFILE
SEE SHEET 27 FOR J3-040 PROFILE
SEE SHEET 28 FOR OLD NATION RD. PROFILE
SEE SHEET D10 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

US 21 (N HWY 21 BYPASS)

VPI = 69+00.00
Elev. = 635.10
K = 180
550' V.C.
(+ 25) 638.64 VPC
(+ 75) 639.95 VPT
LOW POINT
STA. 68+57.13
ELEV. = 637.15
(-) 1.29%
(+) 1.76%
FINISHED GRADE
EXISTING GRADE
(+ 10) 639.39 VPC
(+) 1.76%
1.22%
VPI = 79+60.00
Elev. = 633.80
SSD = 612'
K = 168
500' V.C.

STA. 74+50.00 TO STA. 104+50.00

UNCLASSIFIED =	6143 C.Y.		
BORROW =	7232 C.Y.		
EXE. =	6143 C.Y.	EMB. =	5563 C.Y.
BOR. =	7232 C.Y.	+30% =	1669 C.Y.
		WASTE =	6143 C.Y.
SUBTOTAL =	13375 C.Y.	SUBTOTAL =	13375 C.Y.
LESS =	7232 C.Y.	LESS =	7232 C.Y.
TOTAL =	6143 C.Y.	TOTAL =	6143 C.Y.

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Docusigned by: CARO... 5/11/2023
No. 22780 REGISTERED PROFESSIONAL ENGINEER E. GRAYSON
SOUTH CAROLINA STV INCORPORATED NO. 00338 CERTIFICATE OF AUTHORIZATION

PROLINE.DGN

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	II

FINAL PLANS

EXIST PAVEMENT REPLACEMENT

MILLING/RESURFACING

TIE- EQUALITY

(13) STA. 82+67.39 US 21 = STA. 10+00.00 REGENT DRIVEWAY
(14) STA. 82+72.83 US 21 = STA. 14+09.21 J3-076
(13) STA. 90+13.92 US 21 = STA. 10+00.00 J3-107

RELOCATE US 21 CENTERLINE STA. 94+94.30 TO STA. 101+94.41

RELOCATE J3-076 CENTERLINE STA. 10+00.00 TO STA. 14+09.21

RELOCATE J3-107 CENTERLINE STA. 10+00.00 TO STA. 18+64.05

SURVEY STA.13+16.63
BEGIN PROJECT ID 0042332
J3-076 (CENTRAL CAROLINAS PARKWAY)
MATCH EXISTING PAVEMENT

SURVEY STA.13+75.40
END PROJECT ID 0042332
J3-076 (CENTRAL CAROLINAS PARKWAY)
MATCH PROPOSED US 21 PAVEMENT

MATCH LINE STA. 80+00.00 SEE SHEET NO. 10

MATCH LINE STA. 95+00.00 SEE SHEET NO. 12

MATCH LINE STA. 12+00.00
J3-107 (REGENT PARKWAY)
SEE SHEET NO. 25

SURVEY STA.10+33.50
BEGIN PROJECT ID 0042332
REGENT DRIVEWAY (PRIVATE)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.11+50.00
END PROJECT ID 0042332
REGENT DRIVEWAY (PRIVATE)
MATCH EXISTING PAVEMENT

SURVEY STA.10+53.64
BEGIN PROJECT ID 0042332
J3-107 (REGENT PARKWAY)
BEGIN NEW PAVEMENT CONSTRUCTION
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.10+90.00
PROJECT ID 0042332
J3-107 (REGENT PARKWAY)
END NEW PAVEMENT CONSTRUCTION
BEGIN MILL AND RESURFACING
MATCH EXISTING PAVEMENT

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 28 FOR J3-076 PROFILE
SEE SHEET 28 FOR REGENT DRIVEWAY PROFILE
SEE SHEET 25 FOR J3-107 PROFILE
SEE SHEET DII FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

US 21 (N HWY 21 BYPASS)

VPI = 87+85.00
Elev. = 643.75
K = 82
280' V.C.

(-) 1.22%
(+) 2.19%
(+45) 645.46 VPC
(+25) 646.81 VPT
LOW POINT
STA. 87+45.14
ELEV. = 644.85
FINISHED GRADE
EXISTING GRADE

HIGH POINT
STA. 80+05.77
ELEV. = 652.00
VPI = 79+60.00
Elev. = 653.80
SSD = 612'
K = 168
500' V.C.
(+10) 650.75 VPT

80+00	81+00	82+00	83+00	84+00	85+00	86+00	87+00	88+00	89+00	90+00	91+00	92+00	93+00	94+00	95+00
621.42	621.45	621.29	620.96	620.46	648.92	648.41	648.56	647.91	647.30	646.67	646.02	645.38	644.81	644.42	644.34	644.51	645.74	646.69	647.60	648.87	650.15	651.19	652.26	653.24	654.38	655.54	656.70	657.83	658.88
652.00	651.94	651.73	651.38	650.87	650.27	649.66	649.05	648.44	647.83	647.22	646.61	646.00	645.40	644.97	644.85	645.03	646.30	647.36	648.45	649.55	650.64	651.74	652.83	653.92	655.02	656.11	657.21	658.30	659.39

700 690 680 670 660 650 640 630 620 610

VERT 10 HORIZ 50

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	MMC	09/04/19	ADDED NOTES TO TR #5 FOR 4:1& 2:1SLOPES
2	JDS	8/14/18	TR. 75; REVISED CONSTRUCTION LIMITS S.OF REGENT
1	JDS	6/20/18	TR. 72,73,74; REVISED SLOPES/ARROWS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5	MMC	1/05/19	REVISED PERM TO TCE ON TR 75
4	MMC	9/25/19	REMOVED TURN LANE, REVISED LIMITS & R/W ON TRs 74, 75, & 76

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Douglas E. Carolin
Date: 2023.01.10 14:04:46 -05'00'
No. 22780
01/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03308
CERTIFICATE OF AUTHORIZATION

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	12

FINAL PLANS

MILLING/RESURFACING *EXIST PAVEMENT REPLACEMENT*

TIE- EQUALITY
(16) STA. 97+32.31 US 21 =
STA. 10+00.00 LAKES BOULEVARD
(17) STA. 108+31.68 US 21 =
STA. 10+00.00 S-641
(18) STA. 108+37.68 US 21 =
STA. 14+02.72 RETAIL DRIVE

MATCH LINE STA. 95+00.00 SEE SHEET NO. 11

MATCH LINE STA. 110+00.00 SEE SHEET NO. 13

CONST DRIVE TO SHLD. REMAINDER OF DRIVEWAY TO BE CONST. BY OTHERS

REMOVE DRIVEWAY

CONSTRUCT 5' SIDEWALK

CONSTRUCT 2' C&G

NEW 51.5' R/W

PRES. 75' R/W (FILE #46.240) DB

4' CONCRETE MEDIAN

US 21

9:1 TAPER

100' STORAGE

PRES. 75' R/W (FILE #46.280) DB

NEW EASEMENT

NEW TRANS. R/W

NEW TEMPORARY CONSTRUCTION EASEMENT

LAKES BOULEVARD

NEW 45' R/W

PRES. 75' R/W (FILE #46.528) DB

270' CENTER TAPER

11' PAINTED MEDIAN

200' STORAGE

CURVE 1

REMOVE GRASS MEDIAN

250' STORAGE

TEMP CONST. EASE.

PRES. VAR. R/W (YORK CO. ORDER NO. 2016-CP-46-02454) DB

PRES. VAR. R/W (YORK CO. ORDER NO. 2016-CP-46-02454) DB

MATCH LINE STA. 11+00.00 S-641 (FLINT HILL RD AT US 21) SEE SHEET NO. 22

REMOVE EXISTING SIDEWALK

SURVEY STA.10+41.68
BEGIN PROJECT ID 0042332
LAKES BOULEVARD
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.11+62.36
END NEW PVMT CONST.
BEGIN MILL & RESURFACING

SURVEY STA.12+21.42
END PROJECT ID 0042332
LAKES BOULEVARD
MATCH EXISTING PAVEMENT

SURVEY STA.12+75.00
BEGIN PROJECT ID 0042332
RETAIL DRIVE (PRIVATE)
MATCH EXISTING PAVEMENT

PT= 12+23.93

SURVEY STA.13+69.22
END PROJECT ID 0042332
RETAIL DRIVE (PRIVATE)
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.10+33.55
BEGIN PROJECT ID 0042332
S-641(FLINT HILL ROAD) AT US 21
MATCH PROPOSED US 21 PAVEMENT

RELOCATE LAKES BLVD CENTERLINE STA. 10+00.00 TO STA. 14+25.56
RELOCATE RETAIL DR CENTERLINE STA. 10+00.00 TO STA. 14+02.72
RELOCATE S-641 CENTERLINE STA. 10+00.00 TO STA. 10+97.54
RELOCATE US 21 CENTERLINE STA. 94+94.30 TO STA. 101+94.41

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 29 FOR LAKES BLVD. PROFILE
SEE SHEET 29 FOR RETAIL DR. PROFILE
SEE SHEET DI2 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

STA. 104+50.00 TO STA. 134+33.25

	UNCLASSIFIED =	6124 C.Y.	
	BORROW =	10826 C.Y.	
EXE. =	6124 C.Y.	EMB. =	8328 C.Y.
BOR. =	10826 C.Y.	+30% =	2498 C.Y.
		WASTE =	6124 C.Y.
SUBTOTAL =	16950 C.Y.	SUBTOTAL =	16950 C.Y.
LESS =	10826 C.Y.	LESS =	10826 C.Y.
TOTAL =	6124 C.Y.	TOTAL =	6124 C.Y.

US 21 (N HWY 21 BYPASS)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

VPI = 101+20.00
Elev. = 663.70
K = 290
550' V.C.

(+45) 664.85 VPC

(+45) 664.85 VPT

HIGH POINT STA. 98+19.24 ELEV. = 664.91

LOW POINT STA. 99+66.79 ELEV. = 664.60

(+) 2.19% *(-) 0.42%* *(-) 0.42%* *(+) 1.48%*

(-) 1.48% *(+) 1.36%*

(-) 95) 667.76 VPC

(-) 95) 667.76 VPT

FINISHED GRADE

EXISTING GRADE

(+) 1.48% *(-) 1.36%*

HIGH POINT STA. 109+10.30 ELEV. = 671.56

(+) 85) 663.44 VPC

VPI = 97+65.00
Elev. = 665.19
SSD = 494'
K = 61
160' V.C.

(+) 85) 664.85 VPT

VPI = 108+90.00
Elev. = 675.07
SSD = 868'
K = 349
990' V.C.

700 690 680 670 660 650 640 630 620 610

628.88 659.39 639.89 660.49 660.79 661.58 661.56 662.67 662.23 663.75 662.82 664.52 663.32 664.88 663.70 664.83 663.98 664.68 664.06 664.60 664.01 664.62 664.24 664.72 664.48 664.90 664.75 665.18 665.14 665.54 665.58 665.98 666.10 666.51 666.53 667.13 667.21 667.83 668.12 668.53 668.32 669.15 668.86 669.70 669.45 670.18 669.94 670.59 670.34 670.93 670.66 671.20 670.61 671.39 670.60 671.51 670.80 671.56 670.79 671.54 670.75 671.45

95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00

10 50

STV Incorporated
100 Years
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Digitally signed by CAROLYN E. SKELTON
No. 22780
SOUTH CAROLINA
STV INCORPORATED NO. 03308
CERTIFICATE OF AUTHORIZATION
4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6	TDM	9/8/2020	REMOVED NEW R/W ADDED PERMISSION - TR 85
5	JDS	05/01/2020	ADDED DRIVEWAY TO TR 89
4	MHC	08/09/2019	ADDED TCE TO TR 107
3	MHC	07/08/2019	ADDED TEMP. CONST. EASE. TO TR 93
2	MHC	04/9/2019	REVISED EX. R/W ON TRACT 88
1	JDS	11/30/2018	TRACT 107: REVISED EX. & NEW R/W ON FLINT HILL

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	13

FINAL PLANS

EXIST PAVEMENT REPLACEMENT

RELOCATE US 21 CENTERLINE
STA. 111+93.54 TO STA. 137+13.92

RELOCATE OLD SC 51 CENTERLINE
STA. 313+18.12 TO STA. 316+16.73

MATCH LINE SEE SHEET NO. 31

MATCH LINE STA. 110+00.00 SEE SHEET NO. 12

MATCH LINE STA. 125+00.00 SEE SHEET NO. 14

CONST. PREMASH TYPE T TL3 LEADING 50FT
CONST. 425 LF PREMASH W-BEAM STRONG POST WSP3
CONST. 62.5 LF PREMASH W-BEAM
MEDIUM SHOP BENT SYSTEM (44.6' R)
CONST. PREMASH TRAILING W-BEAM TYPE B

SURVEY STA.11+75.00
BEGIN PROJECT ID 0042332
J2-010 (TERRY'S ROAD)
MATCH EXISTING PAVEMENT

SURVEY STA.12+32.80
END PROJECT ID 0042332
J2-010 (TERRY'S ROAD)
MATCH PROPOSED US 21 PAVEMENT

CONSTRUCT 5' SIDEWALK
CONSTRUCT 2' C&G
140' LANE TAPER
PRES.75' R/W (FILE 46,522) DB
PRES.100' R/W
PRES.VAR.R/W
NEW TRANS. R/W
CONSTRUCT 5' SIDEWALK
CONSTRUCT 2' C&G
180' LANE TAPER
40' DRIVEWAY
40.1' FLARE
PRES.VAR.R/W (PB E-186 PG 8) DB
DED. VAR. R/W (DB 13342 PG 48) DB
DED. 20' DRAINAGE & UTILITY ESMT. (PB 10 PG 121) DB
REMOVE EXISTING SIDEWALK
TIE TO EXISTING SIDEWALK
DED. ACCESS. ESMT. (PB E-134 PG 71) DB
DED. PUBLIC WATERLINE ESMT. (PB E-245 PG 91) DB
20' DRAINAGE & UTILITY ESMT. PB E-245 PG 92
ACCESS. ESMT. PB E-245 PG 92
CONCRETE MEDIAN
NEW CONSTRUCTION
US 21
N 9° 53' 35" E
N 12° 42' 52" E
70' S/TORAGE
50' S/TORAGE
CURVE 2
CURVE 1
PT = 12+09.28
PT = 314+99.75
POT = 316+16.73
315
F.F. BUS REMOVED
CONSTRUCT 2' C&G
CONSTRUCT 5' SIDEWALK
PED 2
PED 3
PED 6
19
109
111
112
169

MILLING/RESURFACING
REMOVE EXISTING PAVEMENT

TIE- EQUALITY
19 STA. 112+69.70 US 21 =
STA. 12+66.11 J2-010

CONST. 325 LF MGS2C GUARDRAIL
CONST. TYPE MT3 LEADING END TREATMENT
CONST. TYPE MB TRAILING END TREATMENT

MATCH LINE STA. 314+50.00
OLD SC 51
SEE SHEET NO. 21

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET 29 FOR J2-010 PROFILE
SEE SHEET DI3 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years — STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

VPI = 108+90.00
Elev. = 675.07
SSD = 868'
K = 349
990' V.C.

(-) 1.36%

FINISHED GRADE

EXISTING GRADE

STA.		STA.	
110+00	670.75 / 671.45	118+00	661.36 / 662.01
111+00	670.81 / 671.28	119+00	660.65 / 661.33
112+00	670.56 / 671.05	120+00	659.99 / 660.65
113+00	670.27 / 670.74	121+00	659.30 / 659.97
114+00	669.91 / 670.36	122+00	658.52 / 659.29
115+00	669.40 / 669.91	123+00	657.75 / 658.61
116+00	668.78 / 669.39	124+00	657.37 / 657.93
117+00	668.26 / 668.79	125+00	656.69 / 657.25
	667.59 / 668.13		655.97 / 656.57
	666.87 / 667.45		655.35 / 655.89
	666.14 / 666.77		654.66 / 655.21
	665.49 / 666.09		654.06 / 654.53
	664.78 / 665.41		653.92 / 653.85
	664.07 / 664.73		652.37 / 653.17
	663.47 / 664.05		
	662.84 / 663.37		
	662.18 / 662.69		

Digitally signed by CAROLINE E. SOLSTEIN
No. 22780
11/1/2023
STV INCORPORATED NO. C03308
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	JDS	07/28/2020	TR. 104: REMOVED PIPE OUTFALLS AND OBTAIN AREAS
2	JDS	07/14/2020	TR. 104: UPDATED SURVEY, REVISED R/W & DRAINAGE
1	JDS	02/11/2020	ADDED/EXTENDED DRIVEWAYS ON TRS. 109 AND 110
6			
5			
4			

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1/0/2023
PROLINE.DGN

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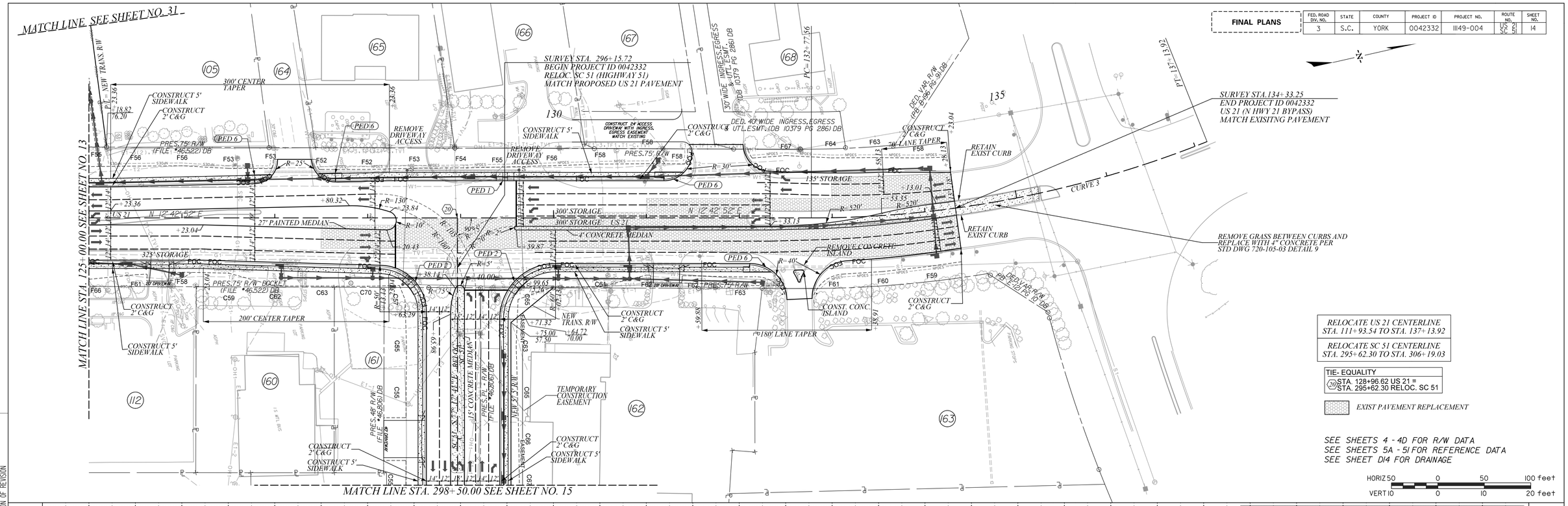
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21 SC 51	14



RELOCATE US 21 CENTERLINE
STA. 111+93.54 TO STA. 137+13.92

RELOCATE SC 51 CENTERLINE
STA. 295+62.30 TO STA. 306+19.03

TIE- EQUALITY
STA. 128+96.62 US 21 =
STA. 295+62.30 RELOC. SC 51

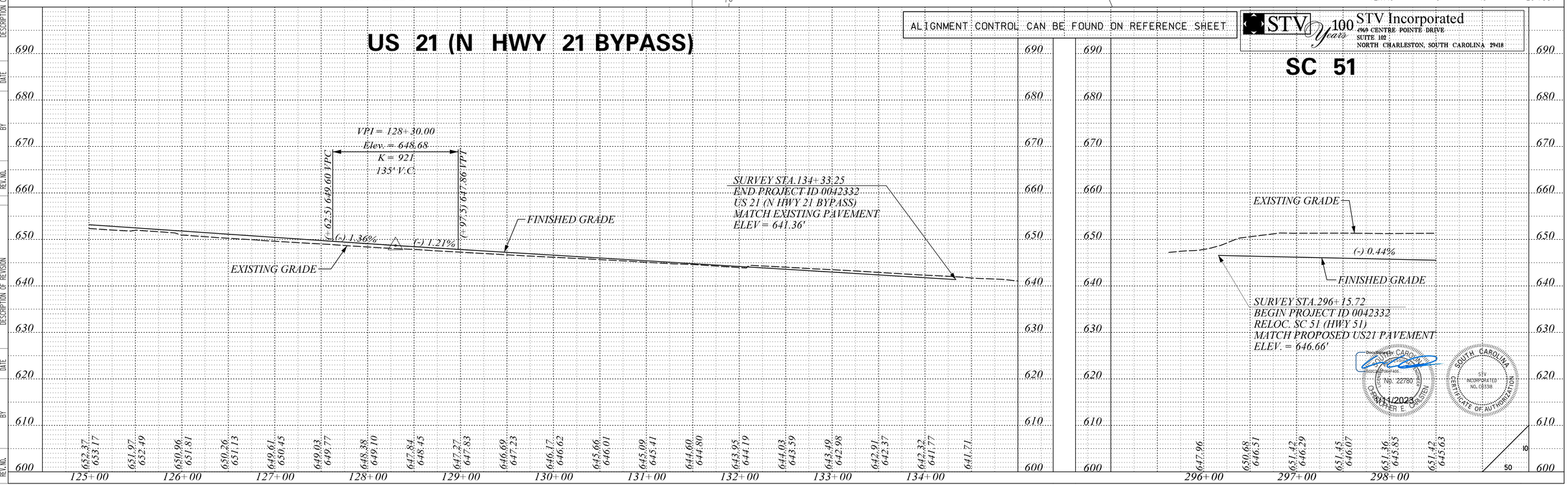
EXIST PAVEMENT REPLACEMENT

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D14 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	JDS	7/14/2020	TRACT 104: UPDATED SURVEY, REVISED DRAINAGE
2	JDS	5/25/2018	TRACT 163: REMOVED NEW R/W
1	JDS	1/10/2023	
6			
5			
4			

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1/10/2023

PROLINE.DGN

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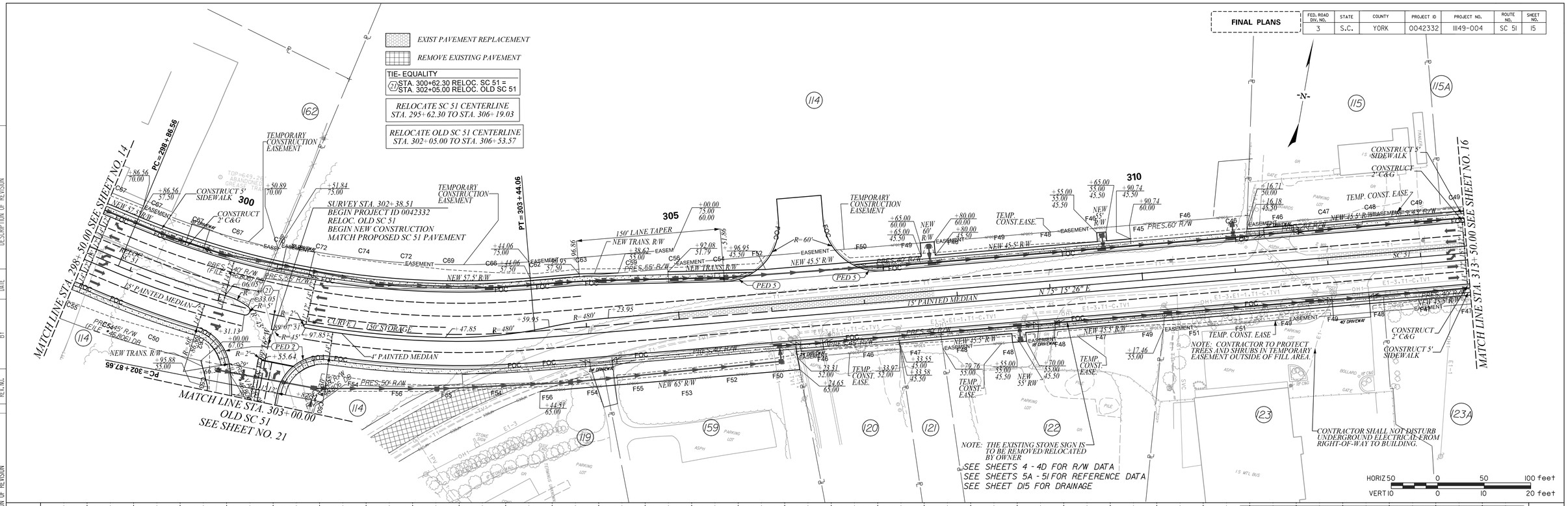
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	15



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	MHC	04/05/19	ADDED TCE & REMOVED PERM. FOR TR. I20
2	MHC	02/01/19	REVISED RW & ADDED TCE FOR TR. I22
1	MHC	10/19/18	ADDED TCE & REMOVED PERM. FOR TR. I14

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6	JDS	02/27/2020	ADDED TREE/SHRUB & ELECTRIC NOTES TO TR I23
5	MHC	10/31/2019	REVISED TR I14 OBTAIN, ADDED UNECONOMIC REMAIN.
4	MHC	04/18/19	ADDED TCE & REMOVED PERM. FOR TR. I15 & I23

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
8	JDS	06/10/20	ADDED REMOVE/RELOCATE SIGN NOTE TO TR. I22
7	JDS	05/13/20	ADDED DRIVEWAYS TO TR. I14

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
10	TGM	10/30/20	SUBDIVIDED I15 & I23, ADDED I15A & I23A

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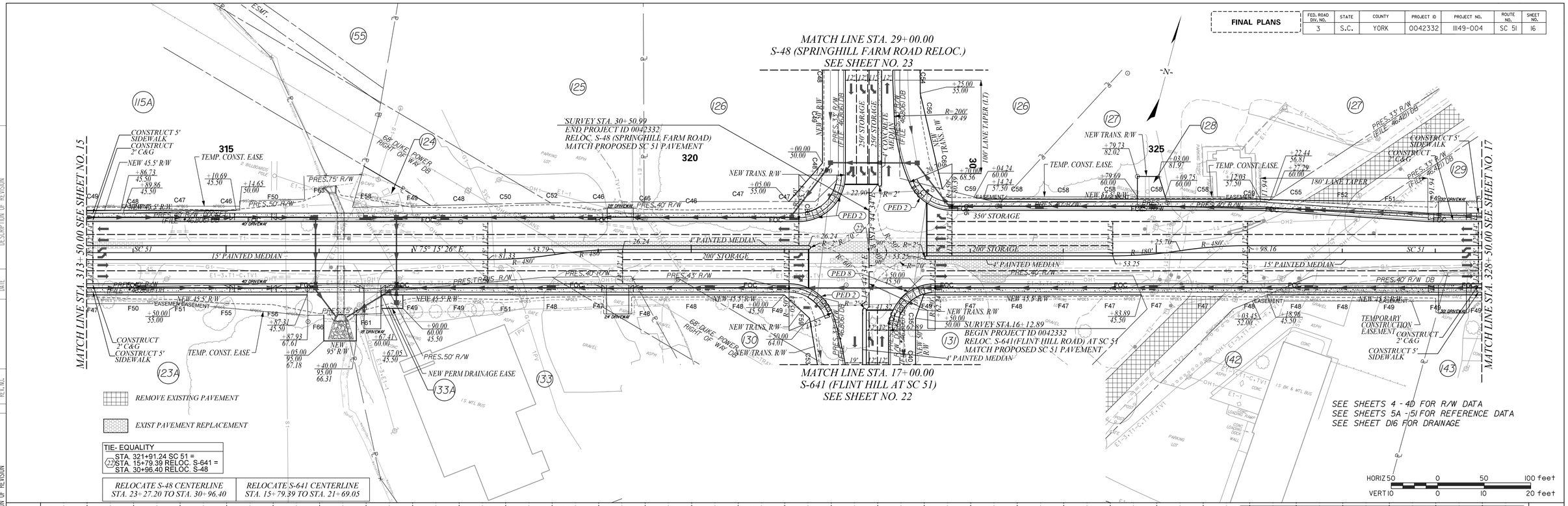
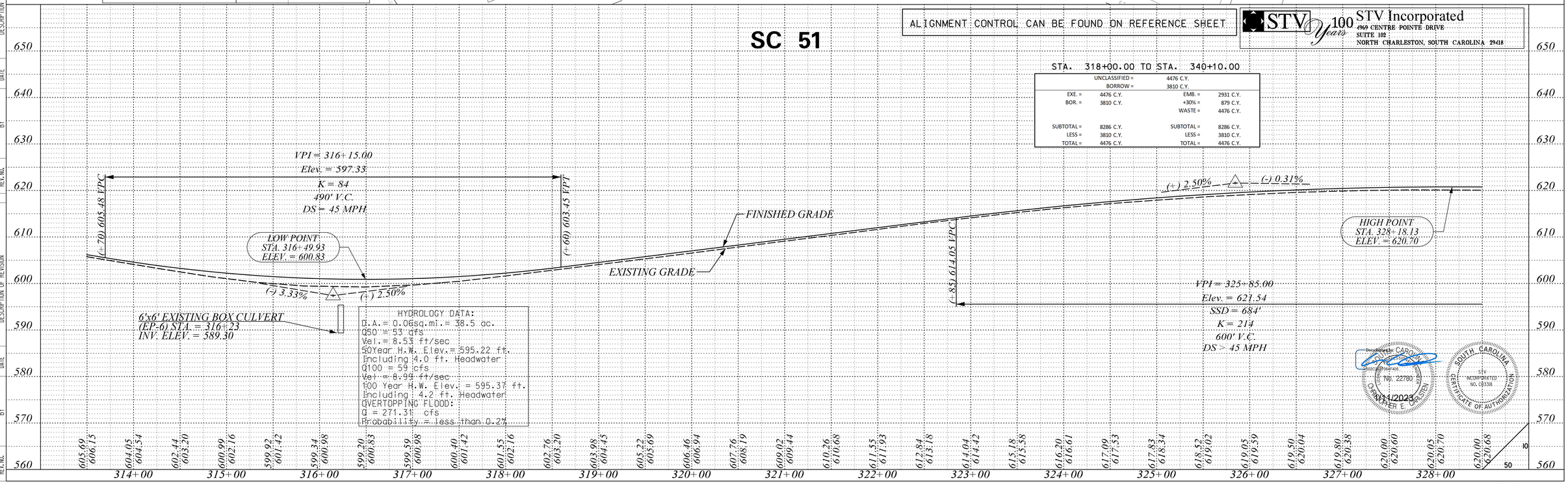
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	SC 51	16



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
10	TGM	5/16/22	ADDED DRIVEWAY - TR 129
9	TGM	12/22/20	ADDED PERM DRAINAGE EASMT & TR NO. - TR 133 & 133A
8	TGM	1/11/20	ADDED 40' DROP CURB DRIVEWAY - TR 115A & 123A
7	TGM	10/30/20	SUBDIVIDED 115 & 123, ADDED 115A & 123A
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6	JDS	03/27/20	ADDED CONC. MEDIAN TO SPRING HILL FARM
5	MHC	04/18/19	ADDED TCE & REMOVED R/W PERM. FOR TR 115 & 123
4	MHC	04/02/19	ADDED TCE & REMOVED R/W PERM. FOR TR 126 & 127
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	MHC	01/22/19	ADDED TCE & REMOVED RW PERM. FOR TR 142 & 143
2	JDS	12/14/2017	ADDED TCE & REMOVED RW PERM. FOR TR 127
1	JDS	12/14/2017	TR. 126 REDUCED R/W TRIANGLES
REV. NO.	BY	DATE	DESCRIPTION OF REVISION



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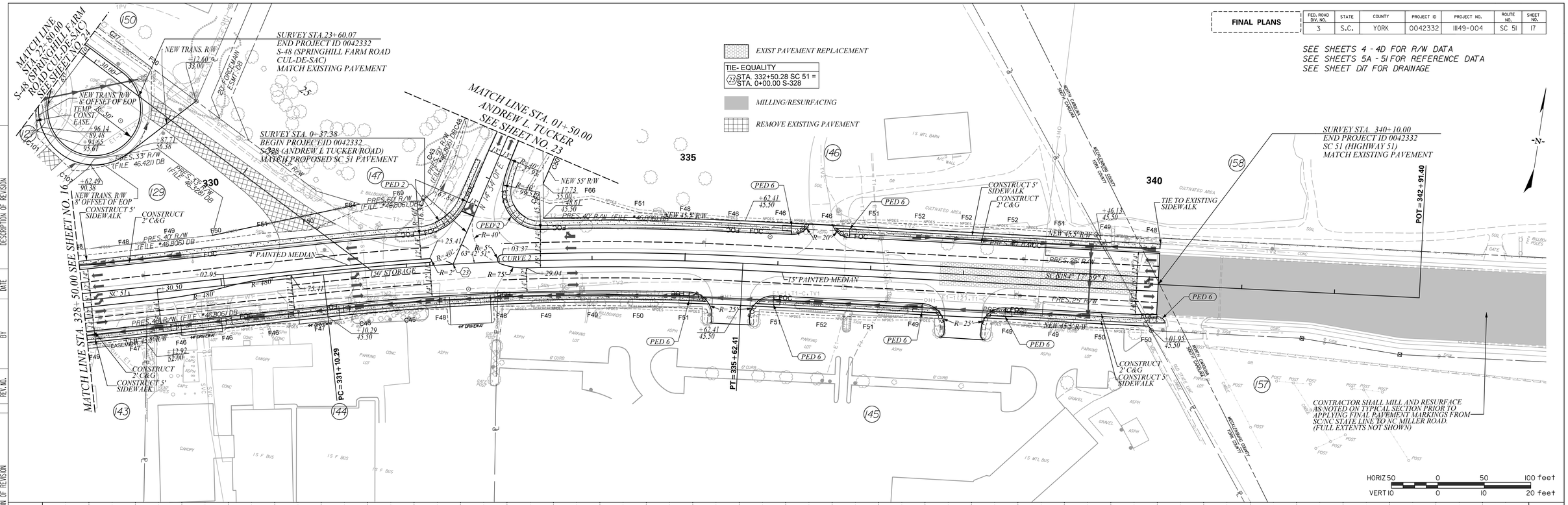
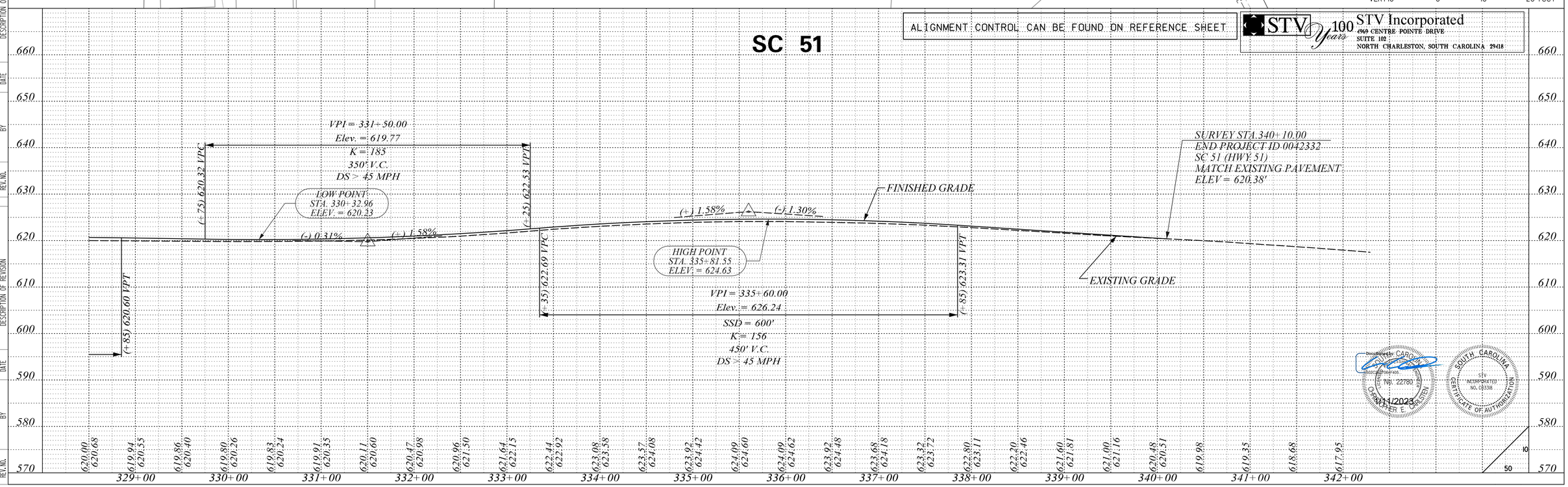
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	SC 51	17

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D17 FOR DRAINAGE



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
9			
8	MHC	04/12/19	ADDED TCE & REMOVED RW PERM. FOR TRACT 127
7	MHC	04/12/19	ADDED TCE & REMOVED RW PERM. FOR TRACT 127
6	MHC	03/28/19	REV. RW LINE ACROSS EX. RW ON TRACTS 127 & 129
5	MHC	02/01/19	REVISED RW TO TIE TO NEW STATE LINE
4	MHC	01/22/19	ADDED TCE & REMOVED RW PERM. FOR TRACT 143
3	MHC	09/03/2018	ADDED RW LINE ACROSS EX. RW FOR TRACT 127
2	JDS	8/23/2018	ADDED NEW STATE LINE
1	JDS	5/25/2018	MOVED NPDES LINE OFF OF TRACT 158

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1/10/2023

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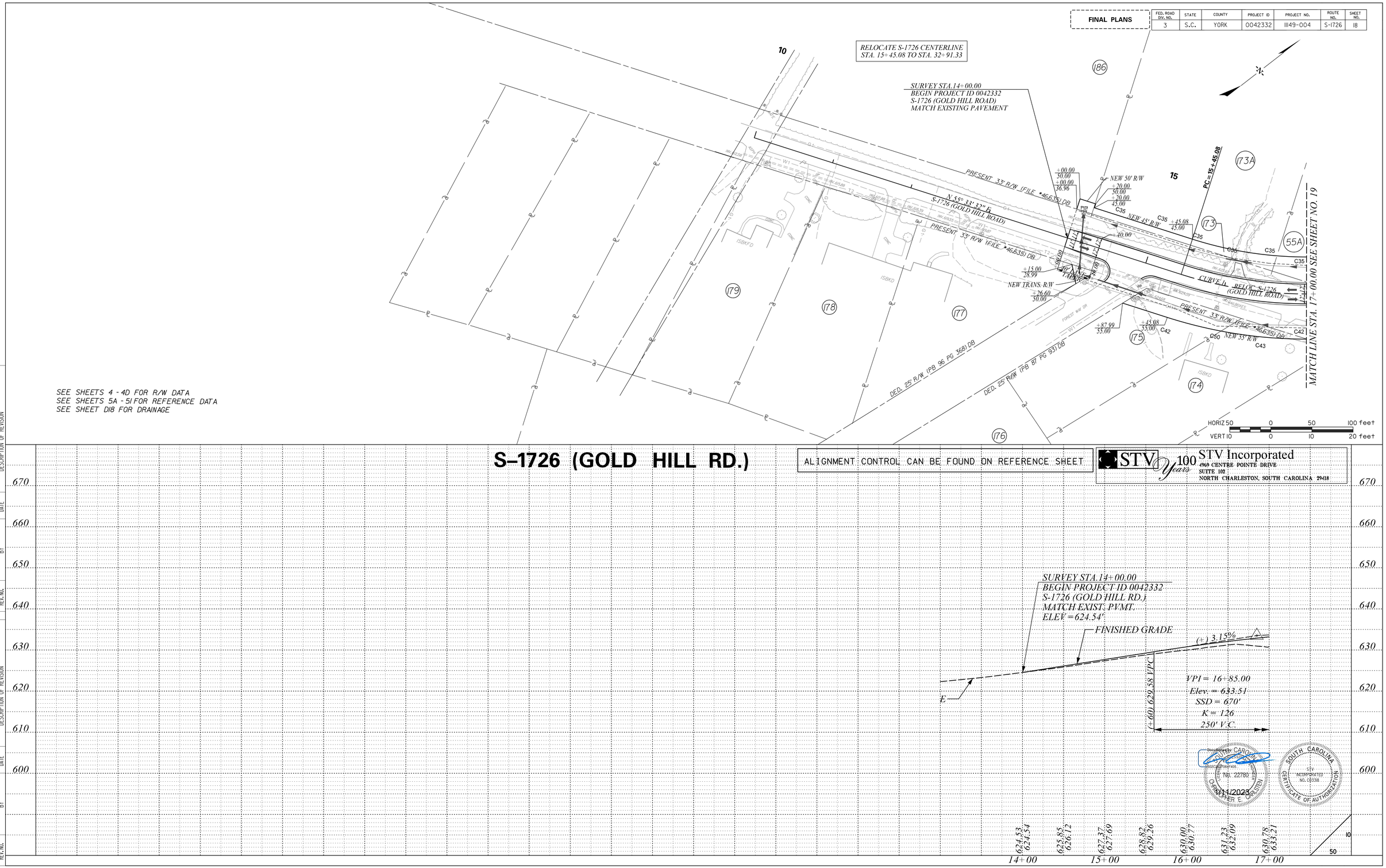
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-1726	18



SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D18 FOR DRAINAGE

S-1726 (GOLD HILL RD.)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	TGM	8/11/20	ADDED TR 173A REVISED TR 173
2	JDS	02/06/20	TRACT 55A ADDED PER PLAT
1	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			

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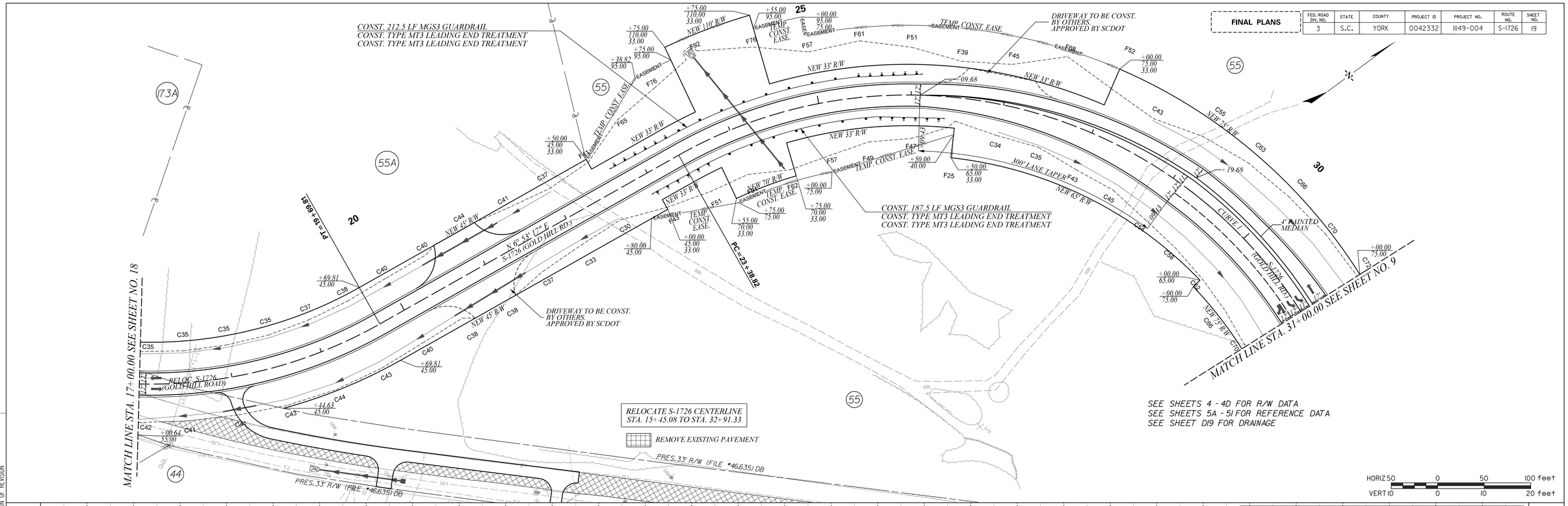
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	S-1726	19



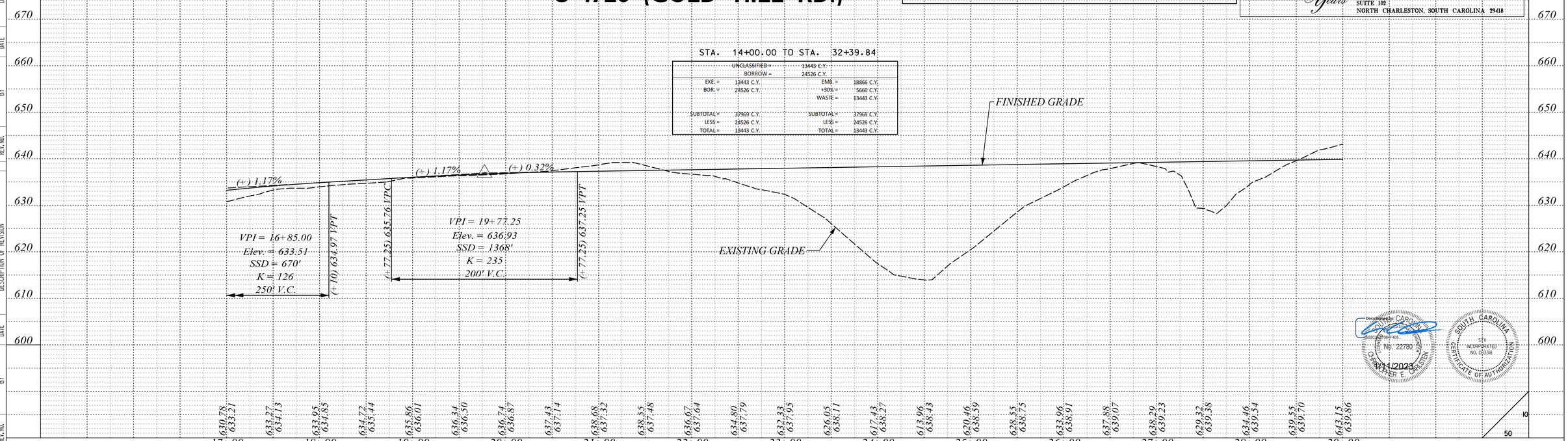
S-1726 (GOLD HILL RD.)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

STA. 14+00.00 TO STA. 32+39.84

UNCLASSIFIED =	13443 C.Y.		
BORROW =	24526 C.Y.		
EXE. =	13443 C.Y.	EMB. =	18866 C.Y.
BOR. =	24526 C.Y.	+30% =	5660 C.Y.
		WASTE =	13443 C.Y.
SUBTOTAL =	37969 C.Y.	SUBTOTAL =	37969 C.Y.
LESS =	24526 C.Y.	LESS =	24526 C.Y.
TOTAL =	13443 C.Y.	TOTAL =	13443 C.Y.



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	TGM	9/3/20	ADDED DRIVEWAY FOR FUTURE DEVELOPMENT TR 55 & 55A
2	TGM	8/11/20	ADDED TR 173A REVISED TR 173
1	MHC	07/17/18	TRACT 55 R/W OBTAIN
6	TGM	06/14/22	DRIVEWAY REVISED TO BE CONST BY OTHERS-TR 55
5	TGM	04/13/22	ADDED TCE & REMOVED PERMISSION - TR 55
4	TGM	04/13/22	ADDED TCE & REMOVED PERMISSION - TR 55

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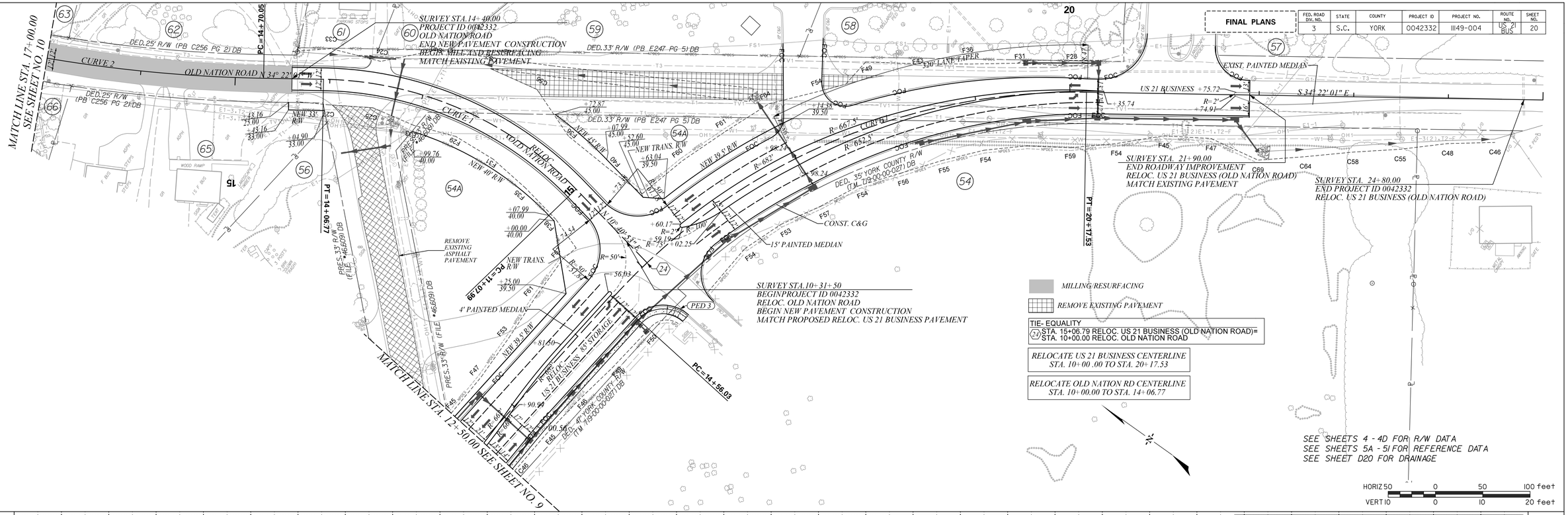
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 BUS	20



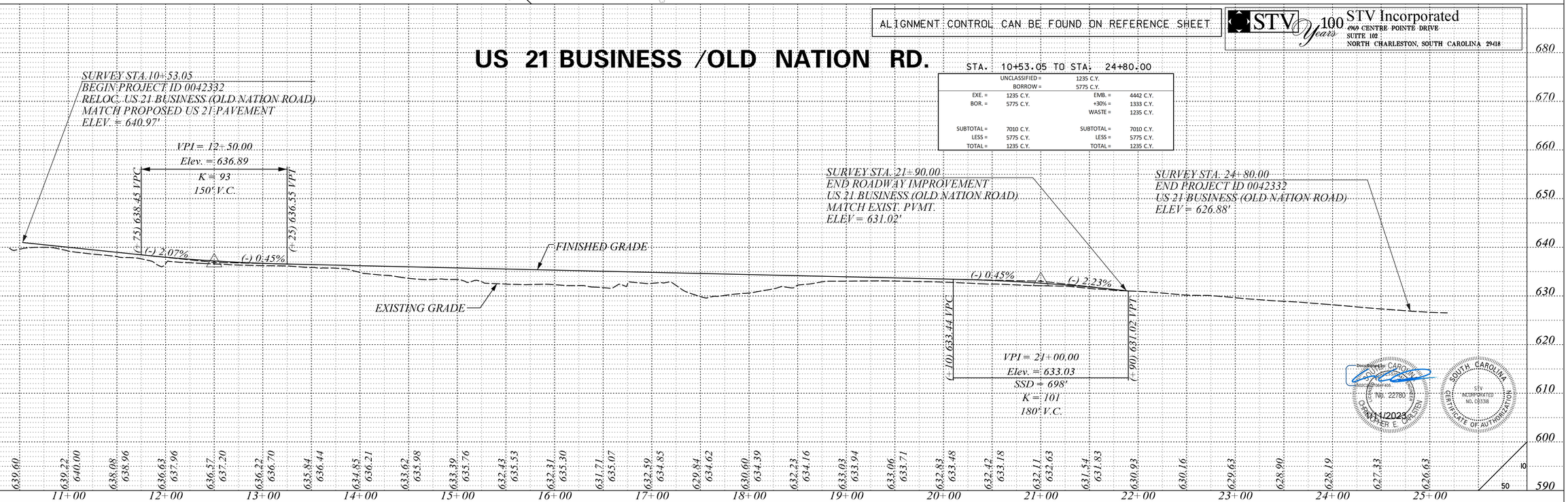
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years — STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 BUSINESS /OLD NATION RD.

STA. 10+53.05 TO STA. 24+80.00

UNCLASSIFIED =	1235 C.Y.		
BORROW =	5775 C.Y.		
EXE. =	1235 C.Y.	EMB. =	4442 C.Y.
BOR. =	5775 C.Y.	+30% =	1333 C.Y.
		WASTE =	1235 C.Y.
SUBTOTAL =	7010 C.Y.	SUBTOTAL =	7010 C.Y.
LESS =	5775 C.Y.	LESS =	5775 C.Y.
TOTAL =	1235 C.Y.	TOTAL =	1235 C.Y.



Douglas Carolin Alexander
No. 22780
REGISTERED PROFESSIONAL ENGINEER
6/11/2023

SOUTH CAROLINA
STV INCORPORATED NO. C03308
CERTIFICATE OF AUTHORIZATION

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2	TGM	8/24/2020	REVISED NEW R/W TRANS - TR 54A
1	JDS	5/25/2018	EXTENDED SIDEWALK ALONG TRACT 54 ON US 21BUS.
6			
5			
4	BY	DATE	DESCRIPTION OF REVISION

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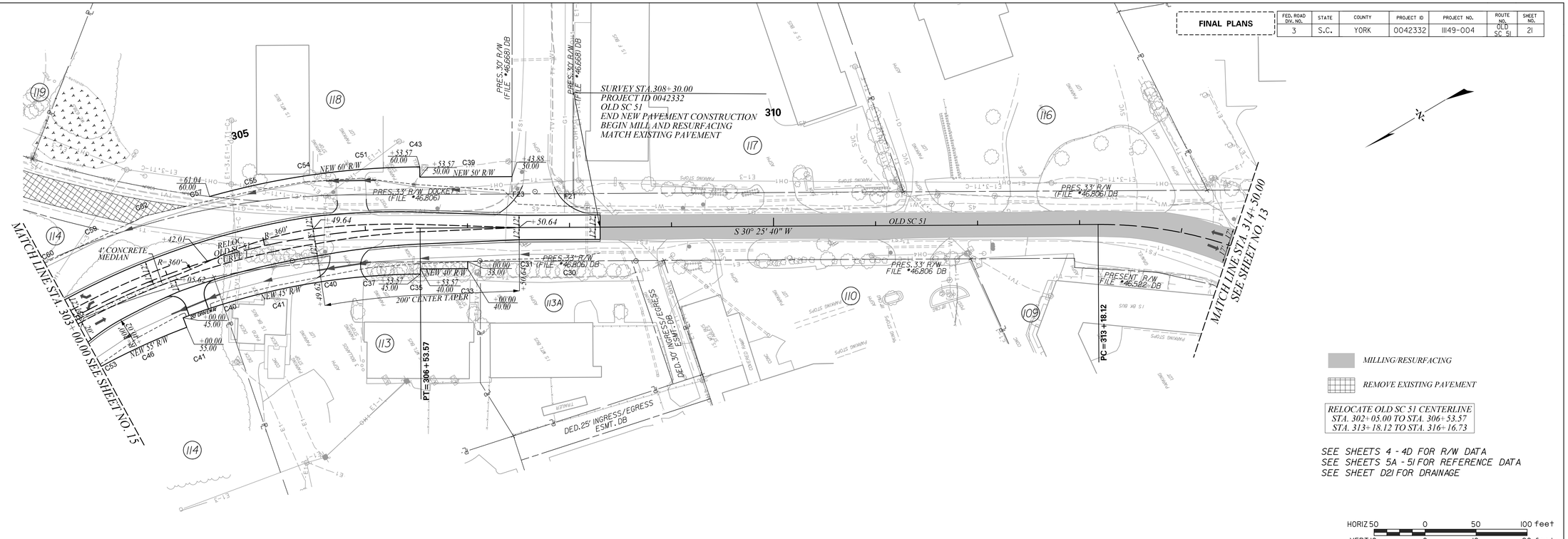
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	OLD SC 51	21



MILLING/RESURFACING

REMOVE EXISTING PAVEMENT

RELOCATE OLD SC 51 CENTERLINE
STA. 302+05.00 TO STA. 306+53.57
STA. 313+18.12 TO STA. 316+16.73

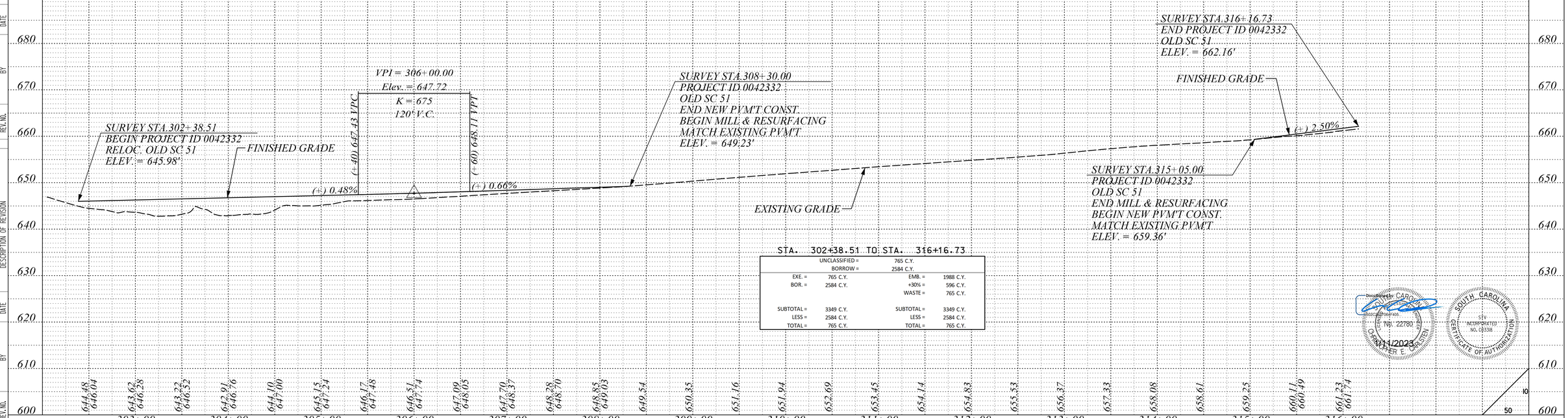
SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D2I FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

OLD SC 51



STA. 302+38.51 TO STA. 316+16.73

UNCLASSIFIED =	765 C.Y.		
BORROW =	2584 C.Y.		
EXE. =	765 C.Y.	EMB. =	1988 C.Y.
BOR. =	2584 C.Y.	+30% =	596 C.Y.
		WASTE =	765 C.Y.
SUBTOTAL =	3349 C.Y.	SUBTOTAL =	3349 C.Y.
LESS =	2584 C.Y.	LESS =	2584 C.Y.
TOTAL =	765 C.Y.	TOTAL =	765 C.Y.

Designed by: CARO
DOCUSIGN ENVELOPE ID: 6C69C3D3-733A-4F71-8C75-F51EC18F5F36
No. 22780
CHRISTOPHER E. CARLSEN
1/11/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1	MHC	08/27/2009	ADDED TR 113A, SPLIT FROM TR 113
2	JDS	05/13/2020	ADDED DRIVEWAYS TO TR. 114
3			
4			
5			
6			

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-641	22

FINAL PLANS

MATCH LINE STA. 17+00.00 SEE SHEET NO. 16

MATCH LINE STA. 11+00.00 SEE SHEET NO. 12

PRES. 33' R/W (FILE #46A40) DB

PRES. 33' R/W (FILE #46B60) DB

65' DUKE POWER RIGHT OF WAY DB

QUARRY OVERLOOK DR. 60' PUBLIC R/W DB

S-641 (RELOC. FLINT HILL ROAD) CURVE 1

150' STORAGE S 14° 44' 54" E

NEW 50' R/W

NEW 55' R/W

PRES. 33' R/W

185' CENTER TAPER

REMOVE EXISTING PAVEMENT

RELOCATE S-641 CENTERLINE STA. 15+79.39 TO STA. 21+69.05

PC=17+95.26

PT=21+69.05

SURVEY STA.22+60.00
END PROJECT ID 0042332
S-641(FLINT HILL ROAD) AT SC 51
MATCH EXISTING PAVEMENT

S 22° 45' 33" W

60' DRAINAGE & UTILITY EASEMENT (PB 12 PG 127 DB)

DED. ACCESS ESMT. (PB E-134 PG 7) DB

TIE TO EXISTING SIDEWALK

TEMP. CONST. EASE.

160' CENTER TAPER TIE TO EXISTING

RETAIN EXIST. DRIVEWAY

PRES. VAR. R/W- EOP (YORK CO. ORDER NO. 2016-CP-46-2454) DB

150' STORAGE S-641 (FLINT HILL ROAD)

S 86° 21' 31" E

PRESENT VAR. R/W (YORK CO. ORDER NO. 2016-CP-46-2454) DB

NEW 120' R/W

SURVEY STA.15+14.19
END ROADWAY IMPROVEMENT
S-641(FLINT HILL ROAD) AT US 21
MATCH EXISTING PAVEMENT

SURVEY STA.16+51.98
END PROJECT ID 0042332
S-641(FLINT HILL ROAD) AT US 21

SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D22 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years — STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

S-641 (FLINT HILL RD. AT SC 51)

SURVEY STA. 16+12.89
BEGIN PROJECT ID 0042332
S-641 (FLINT HILL RD. @ SC 51)
MATCH PROP. SC 51 PVMT.
ELEV. = 611.02'

EXISTING GRADE

(-) 1.00%

(-) 4.84%

FINISHED GRADE

SURVEY STA. 22+60.00
END PROJECT ID 0042332
S-641 (FLINT HILL RD. @ SC 51)
MATCH EXIST. PVMT.
ELEV. = 593.41'

STA. 16+12.89 TO STA. 22+60.00

	UNCLASSIFIED = 1867 C.Y.	
	BORROW = 818 C.Y.	
EXE. =	1867 C.Y.	EMB. = 629 C.Y.
BOR. =	818 C.Y.	+30% = 189 C.Y.
		WASTE = 1867 C.Y.
SUBTOTAL =	2685 C.Y.	SUBTOTAL = 2685 C.Y.
LESS =	818 C.Y.	LESS = 818 C.Y.
TOTAL =	1867 C.Y.	TOTAL = 1867 C.Y.

(-) 70 608.44 VPC

(-) 70 602.61 VPT

VPI = 19+70.00
Elev. = 607.44
SSD = 381'
K = 52
200' V.C.

STA.	
17+00	609.15 610.64
18+00	608.76 610.14
19+00	609.38 609.64
20+00	611.26 609.14
21+00	610.54 608.64
22+00	610.30 608.06
	607.66 607.03
	604.03 605.52
	602.60 603.53
	600.52 601.15
	598.26 598.73
	595.87 596.31
	593.73 593.90

S-641 (FLINT HILL RD. AT US 21)

VPI = 12+45.00
Elev. = 666.38
K = 50
200' V.C.

(-) 45 668.46 VPC

(-) 45 668.28 VPT

LOW POINT
STA. 12+49.36
ELEV. = 667.37

(-) 2.08%

(+) 1.90%

FINISHED GRADE

EXISTING GRADE

SURVEY STA.10+33.55
BEGIN PROJECT ID 0042332
S-641 (FLINT HILL RD. @ US 21)
MATCH PROP. US 21 PVMT.
ELEV = 670.78'

SURVEY STA.15+14.19
END ROADWAY IMPROVEMENT
S-641 (FLINT HILL RD. @ US 21)
MATCH EXIST. PVMT.
ELEV. = 671.49'

SURVEY STA.16+51.98
END PROJECT 0042332
S-641 (FLINT HILL RD. @ US 21)

STA. 10+33.55 TO STA. 15+14.19

	UNCLASSIFIED = 88 C.Y.	
	BORROW = 680 C.Y.	
EXE. =	88 C.Y.	EMB. = 523 C.Y.
BOR. =	680 C.Y.	+30% = 157 C.Y.
		WASTE = 88 C.Y.
SUBTOTAL =	768 C.Y.	SUBTOTAL = 768 C.Y.
LESS =	680 C.Y.	LESS = 680 C.Y.
TOTAL =	88 C.Y.	TOTAL = 88 C.Y.

STA.	
10+00	670.30
11+00	669.73 670.43
12+00	667.67 669.39
13+00	666.83 668.36
14+00	666.53 667.62
15+00	666.83 667.37
16+00	667.49 667.62
	668.27 668.37
	669.08 669.32
	670.08 670.27
	671.18 671.22
	672.22
	673.34

Digitally signed by CAROLINE E. SOLESBEE
No. 22780
4/11/2023

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03308

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5	TDM	09/14/2020	ADDED NOTE TO RETAIN EXIST DRIVEWAY - TR 106
4	MHC	08/23/09	REMOVED TRACT 14L COMBINED WITH TRACT 140
3	MHC	07/29/09	ADDED TCE TO TR 107
2	MHC	07/08/2009	ADDED TCE TO TR 93, REMOVED PERM. FROM TR 91
1	JDS	11/30/08	REVISED EX. & PROP. R/W ON TRs. 91, 93, 106, & 107

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1/10/2023

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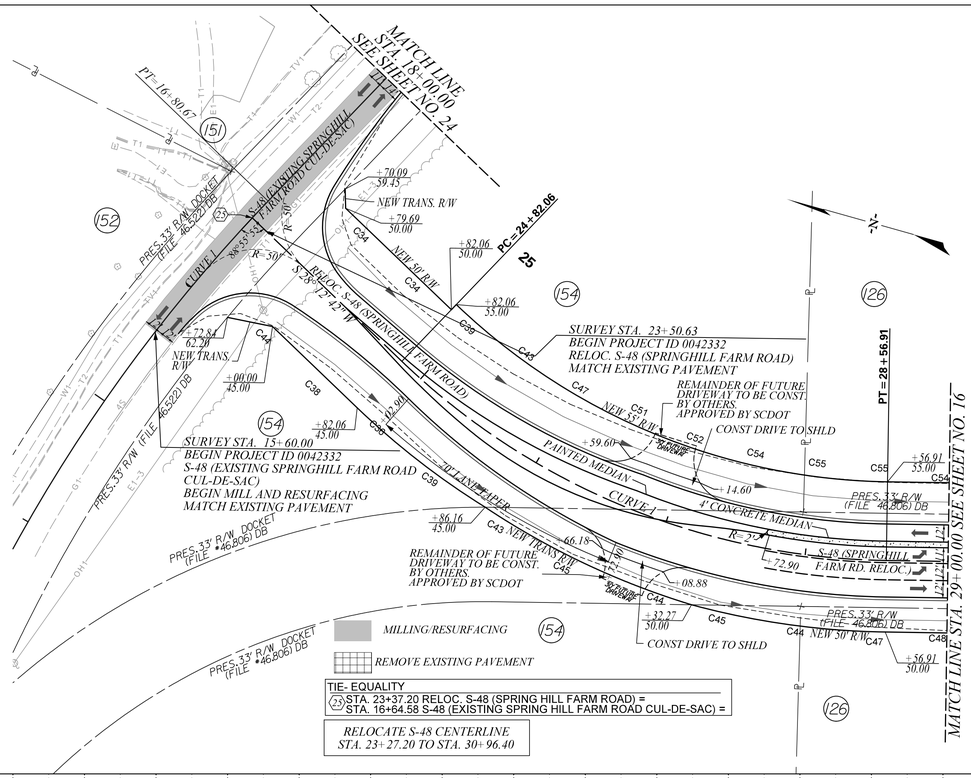
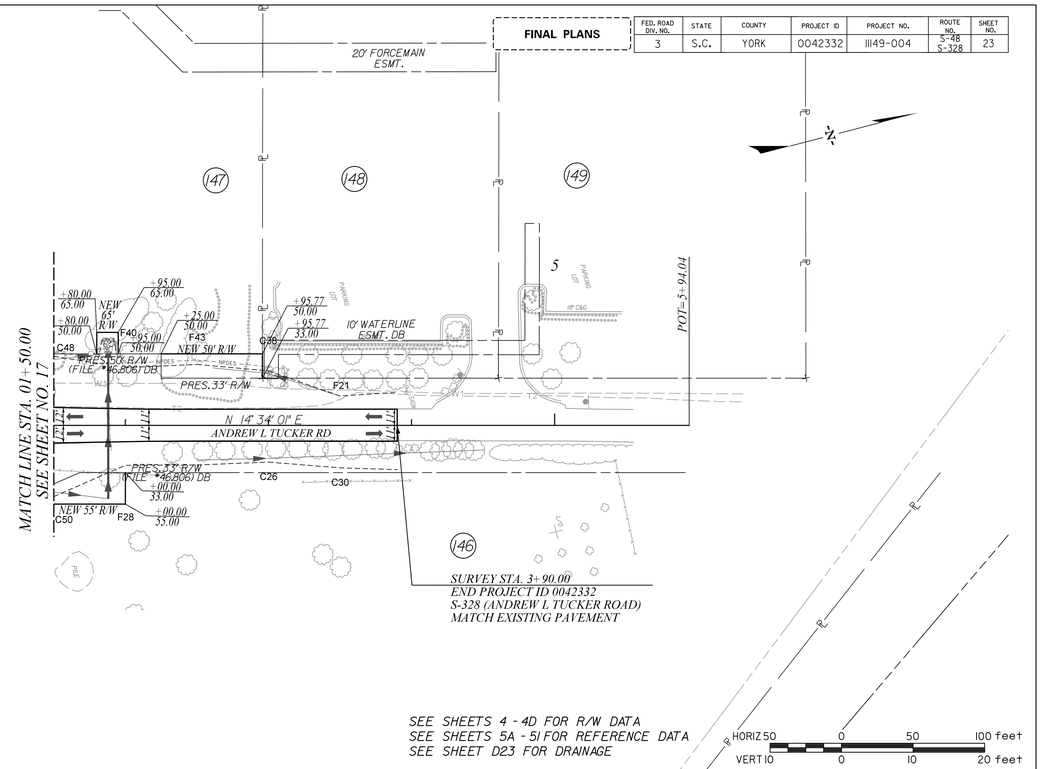
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-48 S-328	23

FINAL PLANS





SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D23 FOR DRAINAGE

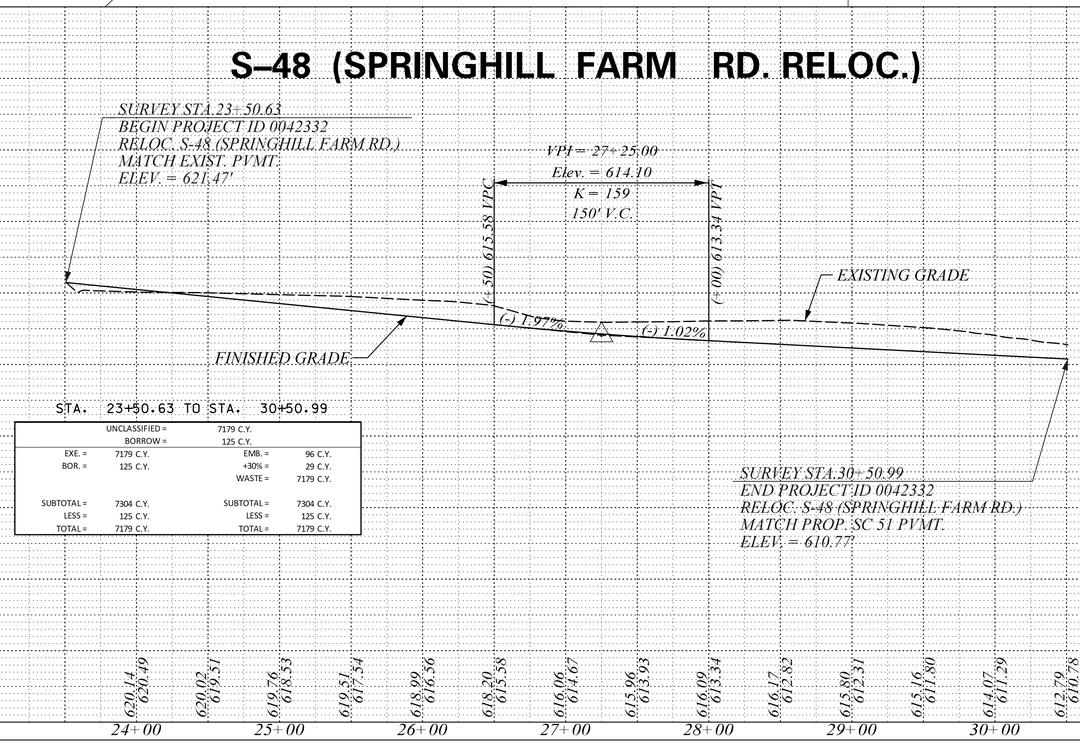
HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

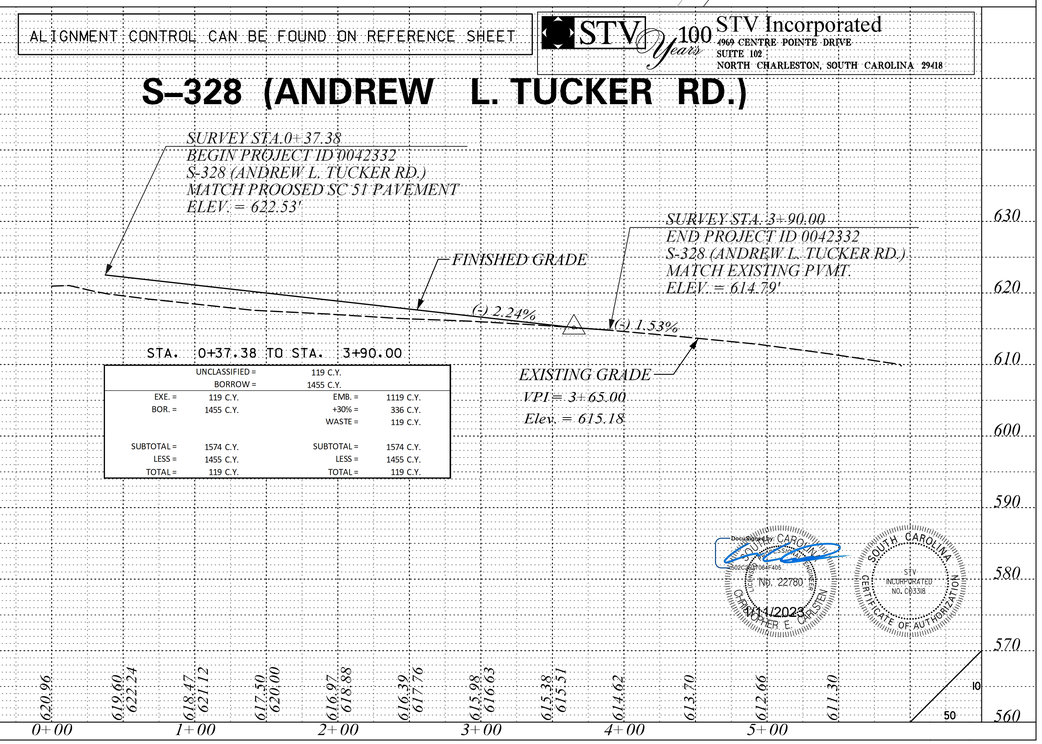
S-48 (SPRINGHILL FARM RD. RELOC.)



STA. 23+50.63 TO STA. 30+50.99

UNCLASSIFIED =	7179 C.Y.		
BORROW =	125 C.Y.		
EXE. =	7179 C.Y.	EMB. =	96 C.Y.
BOR. =	125 C.Y.	+30% =	29 C.Y.
		WASTE =	7179 C.Y.
SUBTOTAL =	7304 C.Y.	SUBTOTAL =	7304 C.Y.
LESS =	125 C.Y.	LESS =	125 C.Y.
TOTAL =	7179 C.Y.	TOTAL =	7179 C.Y.

S-328 (ANDREW L. TUCKER RD.)



STA. 0+37.38 TO STA. 3+90.00

UNCLASSIFIED =	119 C.Y.		
BORROW =	1455 C.Y.		
EXE. =	119 C.Y.	EMB. =	1119 C.Y.
BOR. =	1455 C.Y.	+30% =	336 C.Y.
		WASTE =	119 C.Y.
SUBTOTAL =	1574 C.Y.	SUBTOTAL =	1574 C.Y.
LESS =	1455 C.Y.	LESS =	1455 C.Y.
TOTAL =	119 C.Y.	TOTAL =	119 C.Y.

Document: CAROLINA
Certificate No. 22780
Expires: 06/30/2023
10/1/2023
SOUTH CAROLINA
STV INCORPORATED NO. C00338
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3	TGM	01/20/2021	REVISED "FUTURE DRIVEWAY TO BE CONST BY OTHER" NOTE & ADD CONST DRIVEWAY TO SHLD NOTE - TRACT 154
2	TGM	11/11/2020	ADDED NEW TRANS R/W BETWEEN PRES R/W & ADDED NOTE "FUTURE DRIVEWAYS TO BE CONST BY OTHER" - TRACT 154
1	JDS	04/02/2020	ADDED DRIVEWAYS TO TR 154 AND REVISED MEDIAN

mastifig
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1/10/2023

PROLINE.DGN

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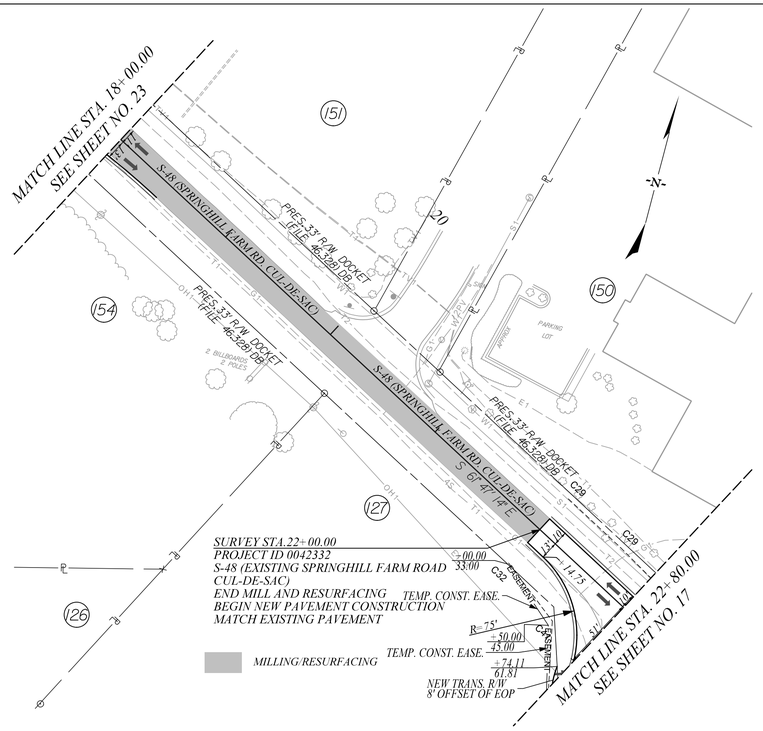
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-48	24



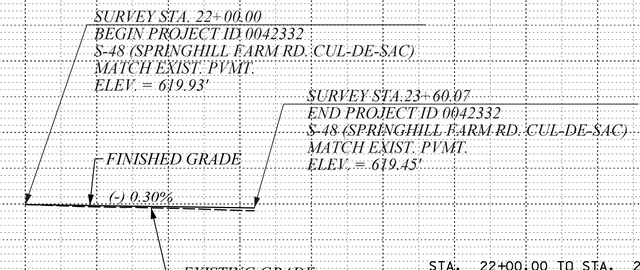
SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D24 FOR DRAINAGE

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

S-48 (SPRINGHILL FARM RD. CUL-DE-SAC)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



STA. 22+00.00 TO STA. 23+60.07

UNCLASSIFIED =	319 C.Y.		
BORROW =	138 C.Y.		
EXE. =	319 C.Y.	EMB. =	106 C.Y.
BOR. =	138 C.Y.	+30% =	32 C.Y.
		WASTE =	319 C.Y.
SUBTOTAL =	457 C.Y.	SUBTOTAL =	457 C.Y.
LESS =	138 C.Y.	LESS =	138 C.Y.
TOTAL =	319 C.Y.	TOTAL =	319 C.Y.

Digitally signed by CARLTON E. GIBSTEN
Date: 2023.04.05 14:49:49 -04'00'
REGISTERED No. 22780
CARLTON E. GIBSTEN
4/11/2023

SOUTH CAROLINA
STV INCORPORATED
No. C03338
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2	MHC	04/12/19	ADDED TCE & REMOVED RW PERM FOR TRACT 127
1			

mattfg
s:\Projects\2515776\2515776_000\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\2515776 PLN SHT24.dgn
4/10/2023

PROLINE.DGN

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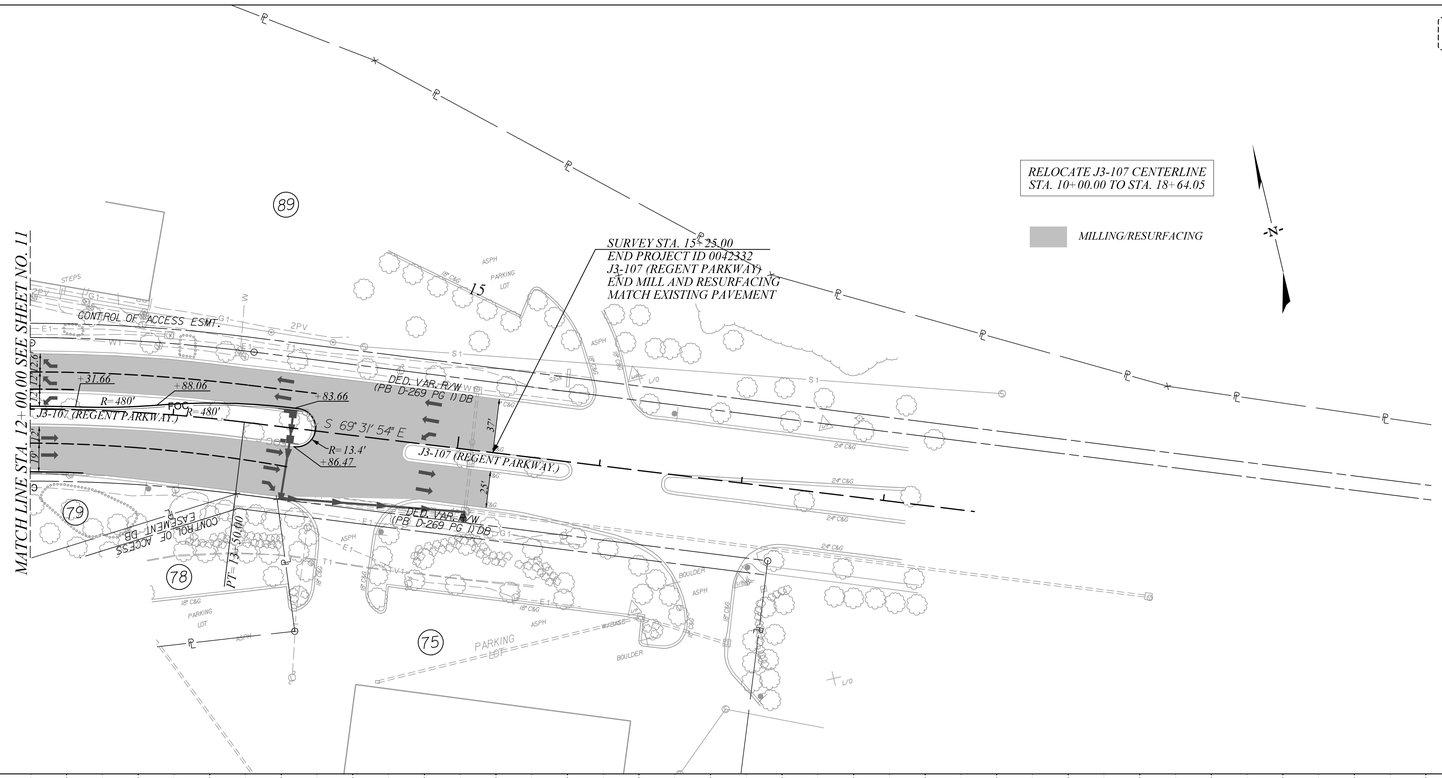
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	J3-107	25



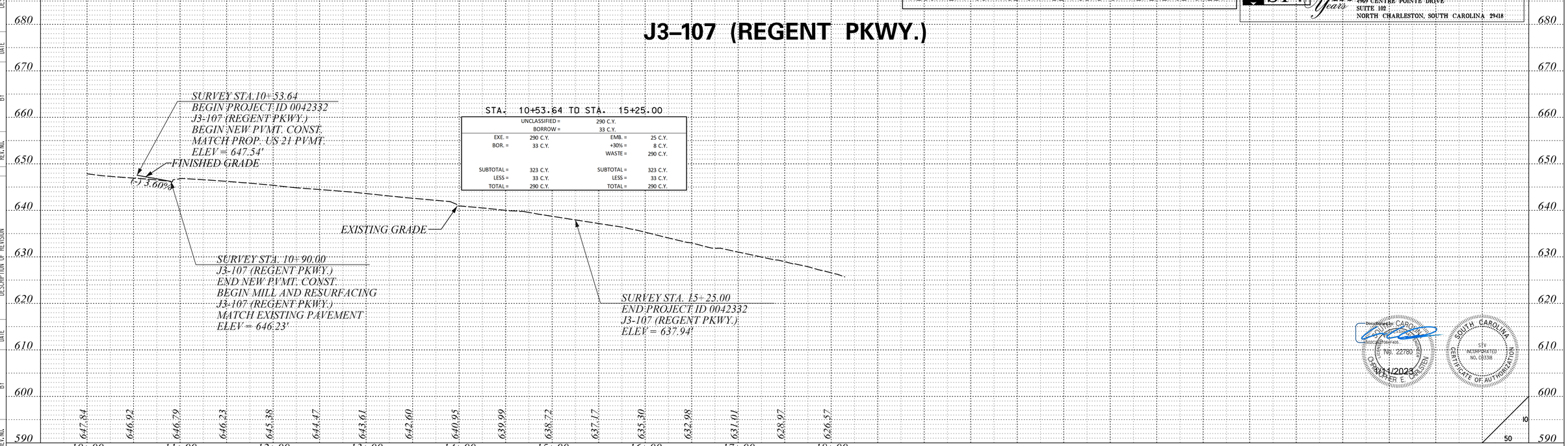
SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 5I FOR REFERENCE DATA
SEE SHEET D25 FOR DRAINAGE DATA

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

J3–107 (REGENT PKWY.)



STA. 10+53.64 TO STA. 15+25.00

UNCLASSIFIED =	290 C.Y.		
BORROW =	33 C.Y.		
EXE. =	290 C.Y.	EMB. =	25 C.Y.
BOR. =	33 C.Y.	+30% =	8 C.Y.
		WASTE =	290 C.Y.
SUBTOTAL =	323 C.Y.	SUBTOTAL =	323 C.Y.
LESS =	33 C.Y.	LESS =	33 C.Y.
TOTAL =	290 C.Y.	TOTAL =	290 C.Y.

SOUTH CAROLINA
No. 22780
CHARLES E. CARLSTEN
11/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
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1			

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1/10/2023

PROLINE.DGN

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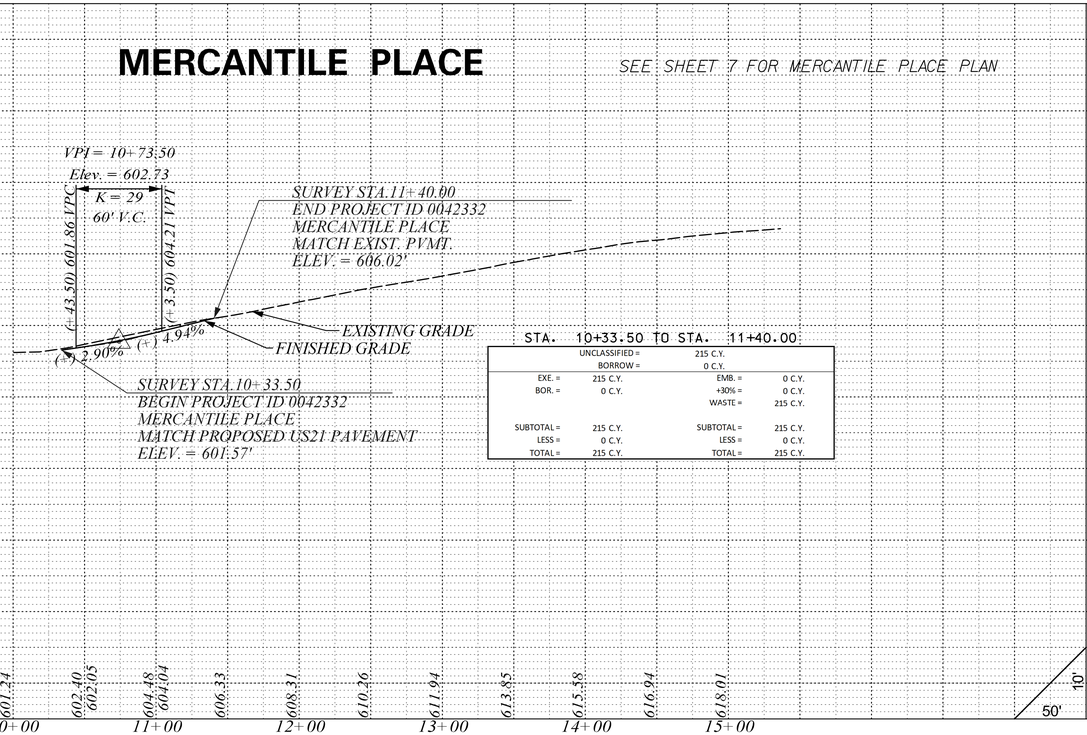
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21 SC 5	26

MERCANTILE PLACE

SEE SHEET 7 FOR MERCANTILE PLACE PLAN

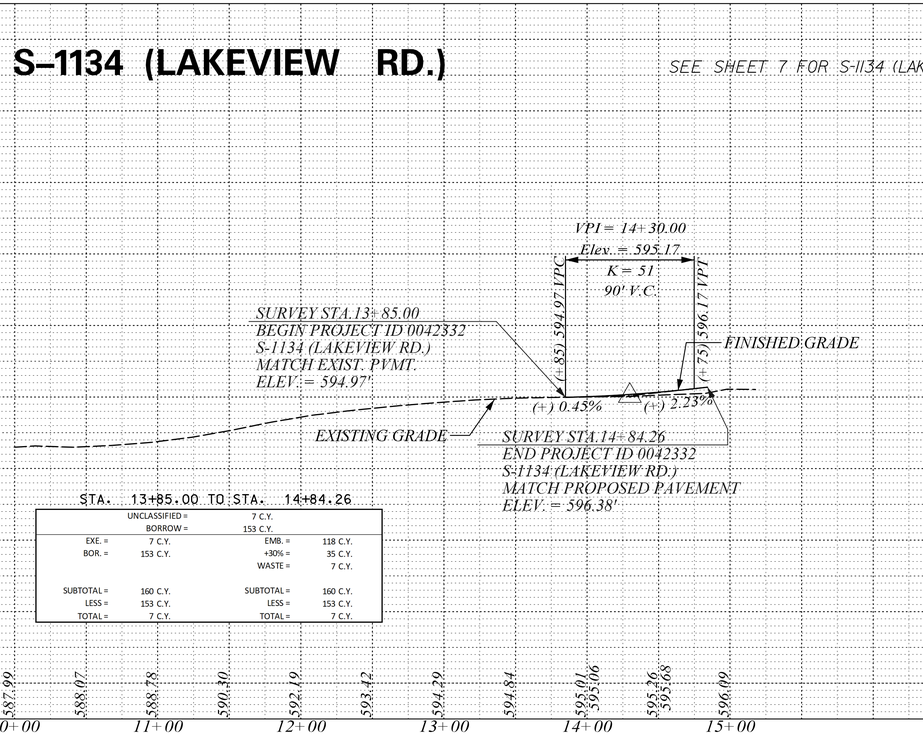


STA. 10+33.50 TO STA. 11+40.00

	UNCLASSIFIED =	215 C.Y.	
	BORROW =	0 C.Y.	
EXE. =	215 C.Y.	EMB. =	0 C.Y.
BOR. =	0 C.Y.	+30% =	0 C.Y.
		WASTE =	215 C.Y.
SUBTOTAL =	215 C.Y.	SUBTOTAL =	215 C.Y.
LESS =	0 C.Y.	LESS =	0 C.Y.
TOTAL =	215 C.Y.	TOTAL =	215 C.Y.

S–1134 (LAKEVIEW RD.)

SEE SHEET 7 FOR S-1134 (LAKEVIEW RD.) PLAN

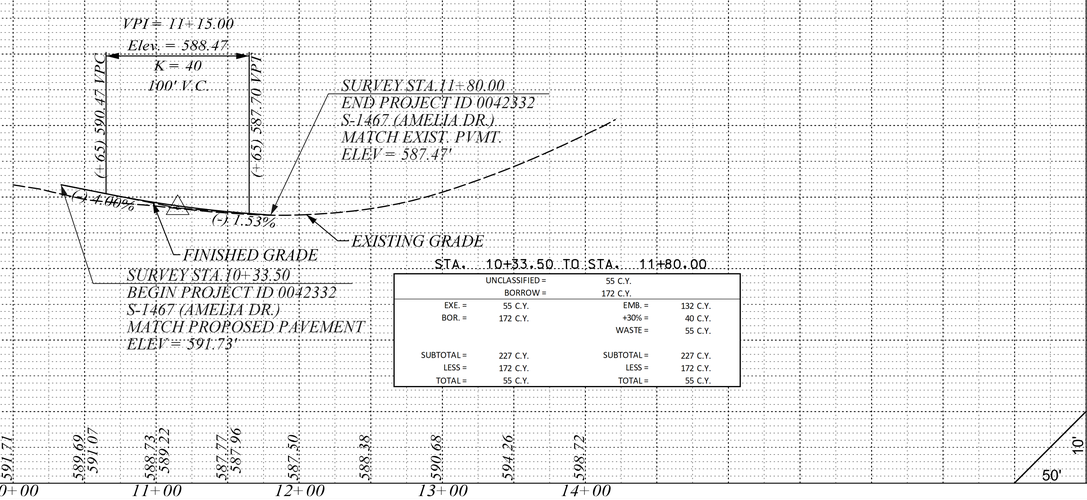


STA. 13+85.00 TO STA. 14+84.26

	UNCLASSIFIED =	7 C.Y.	
	BORROW =	153 C.Y.	
EXE. =	7 C.Y.	EMB. =	118 C.Y.
BOR. =	153 C.Y.	+30% =	35 C.Y.
		WASTE =	7 C.Y.
SUBTOTAL =	160 C.Y.	SUBTOTAL =	160 C.Y.
LESS =	153 C.Y.	LESS =	153 C.Y.
TOTAL =	7 C.Y.	TOTAL =	7 C.Y.

S–1467 (AMELIA DR.)

SEE SHEET 8 FOR S-1467 (AMELIA DR.) PLAN



STA. 10+33.50 TO STA. 11+80.00

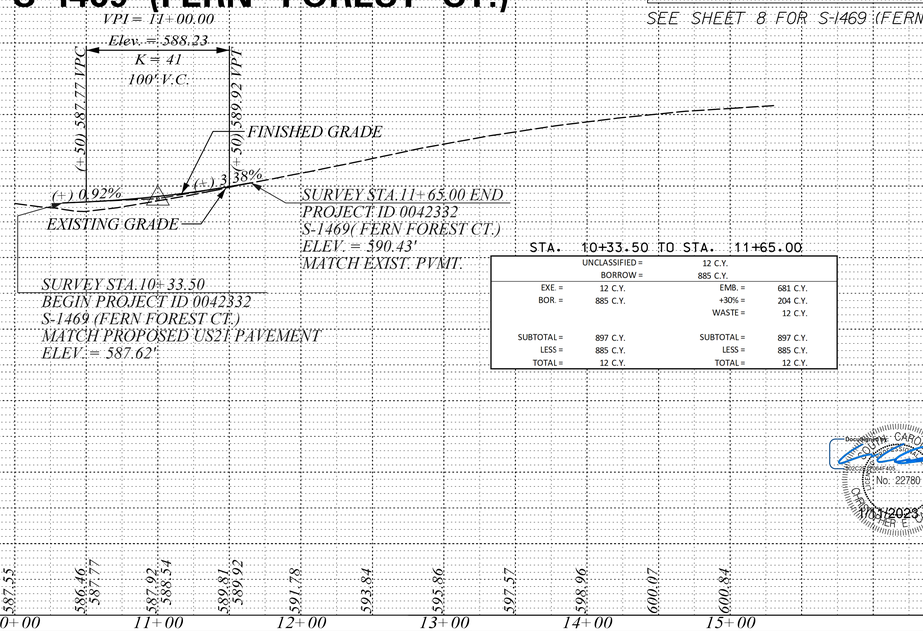
	UNCLASSIFIED =	55 C.Y.	
	BORROW =	172 C.Y.	
EXE. =	55 C.Y.	EMB. =	132 C.Y.
BOR. =	172 C.Y.	+30% =	40 C.Y.
		WASTE =	55 C.Y.
SUBTOTAL =	227 C.Y.	SUBTOTAL =	227 C.Y.
LESS =	172 C.Y.	LESS =	172 C.Y.
TOTAL =	55 C.Y.	TOTAL =	55 C.Y.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV 100 Years
STV Incorporated
0969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

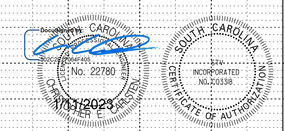
S–1469 (FERN FOREST CT.)

SEE SHEET 8 FOR S-1469 (FERN FOREST CT.) PLAN



STA. 10+33.50 TO STA. 11+65.00

	UNCLASSIFIED =	12 C.Y.	
	BORROW =	885 C.Y.	
EXE =	12 C.Y.	EMB. =	681 C.Y.
BOR. =	885 C.Y.	+30% =	204 C.Y.
		WASTE =	12 C.Y.
SUBTOTAL =	897 C.Y.	SUBTOTAL =	897 C.Y.
LESS =	885 C.Y.	LESS =	885 C.Y.
TOTAL =	12 C.Y.	TOTAL =	12 C.Y.



REV.NO.	BY	DATE	DESCRIPTION OF REVISION
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1/10/2023

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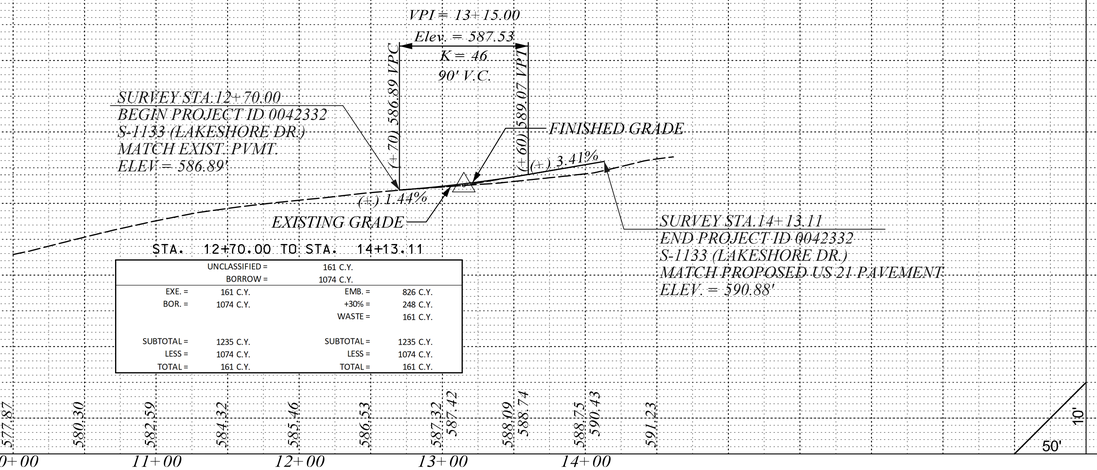
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21 SC 5	27

S-1133 (LAKESHORE DR.)

SEE SHEET 8 FOR S-1133 (LAKESHORE DR.) PLAN

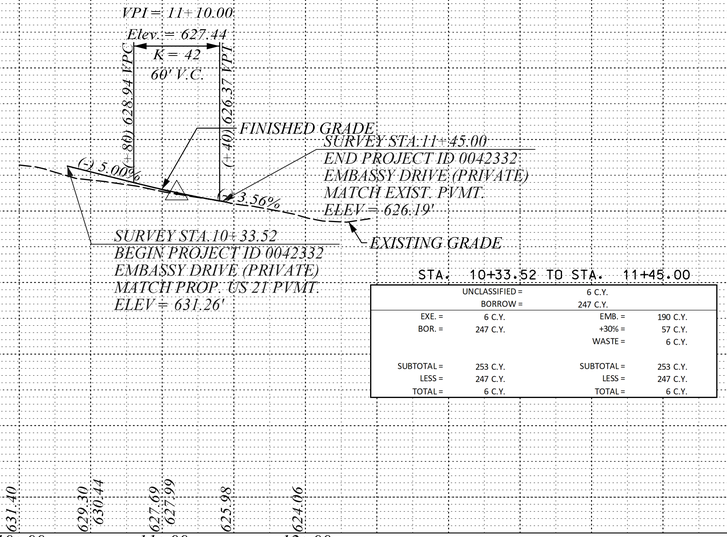


STA. 12+70.00 TO STA. 14+13.11

UNCLASSIFIED =	161 C.Y.		
BORROW =	1074 C.Y.		
EXE. =	161 C.Y.	EMB. =	826 C.Y.
BOR. =	1074 C.Y.	+30% =	248 C.Y.
		WASTE =	161 C.Y.
SUBTOTAL =	1235 C.Y.	SUBTOTAL =	1235 C.Y.
LESS =	1074 C.Y.	LESS =	1074 C.Y.
TOTAL =	161 C.Y.	TOTAL =	161 C.Y.

EMBASSY DRIVEWAY

SEE SHEET 9 FOR EMBASSY DRIVEWAY PLAN

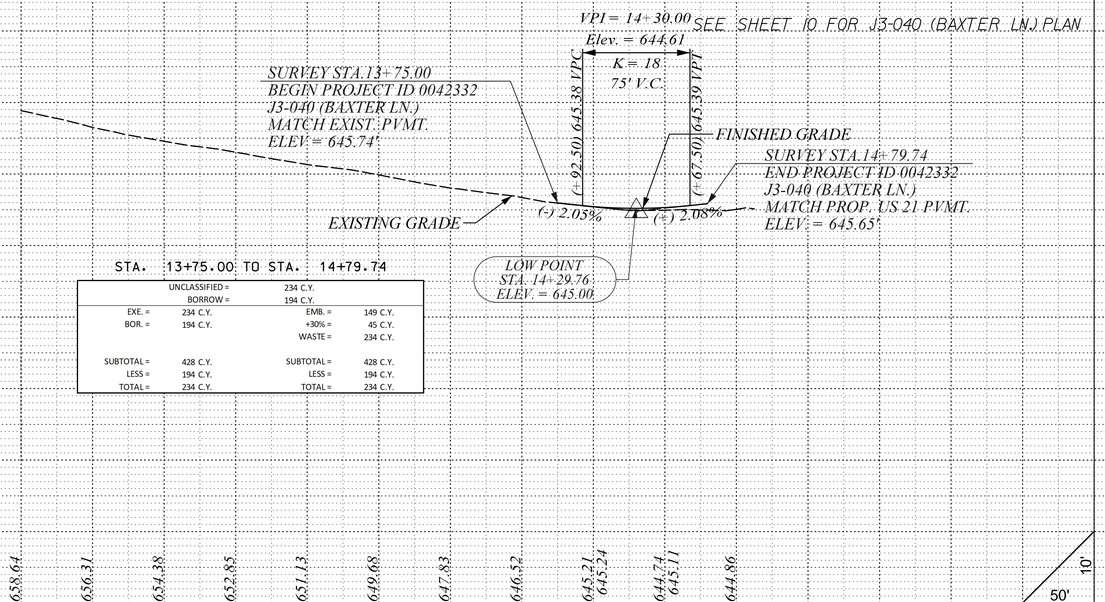


STA. 10+33.52 TO STA. 11+45.00

UNCLASSIFIED =	6 C.Y.		
BORROW =	247 C.Y.		
EXE. =	6 C.Y.	EMB. =	190 C.Y.
BOR. =	247 C.Y.	+30% =	57 C.Y.
		WASTE =	6 C.Y.
SUBTOTAL =	253 C.Y.	SUBTOTAL =	253 C.Y.
LESS =	247 C.Y.	LESS =	247 C.Y.
TOTAL =	6 C.Y.	TOTAL =	6 C.Y.

J3-040 (BAXTER LN.)

SEE SHEET 10 FOR J3-040 (BAXTER LN.) PLAN



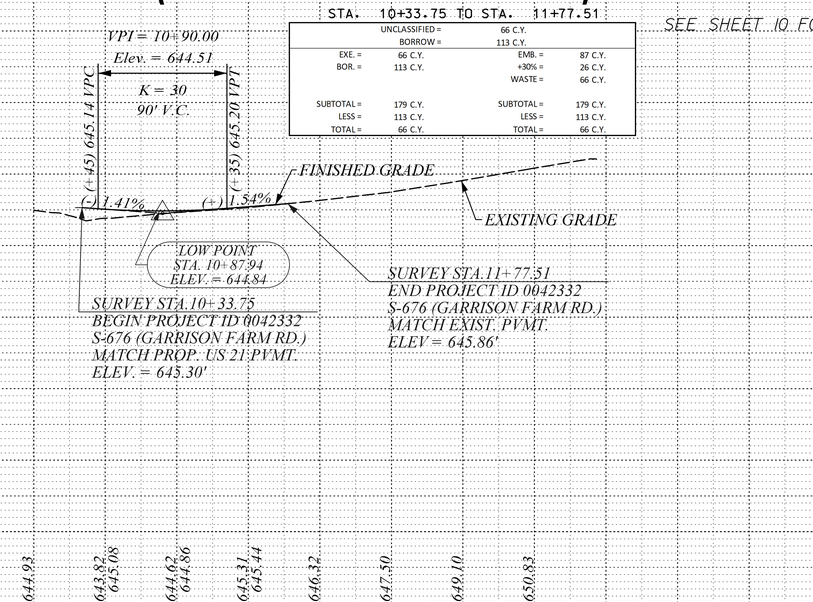
STA. 13+75.00 TO STA. 14+79.74

UNCLASSIFIED =	234 C.Y.		
BORROW =	194 C.Y.		
EXE. =	234 C.Y.	EMB. =	149 C.Y.
BOR. =	194 C.Y.	+30% =	45 C.Y.
		WASTE =	234 C.Y.
SUBTOTAL =	428 C.Y.	SUBTOTAL =	428 C.Y.
LESS =	194 C.Y.	LESS =	194 C.Y.
TOTAL =	234 C.Y.	TOTAL =	234 C.Y.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

S-676 (GARRISON FARM RD.)

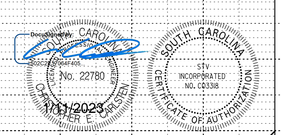
SEE SHEET 10 FOR S-676 GARRISON FARM RD.) PLAN



STA. 10+33.75 TO STA. 11+77.51

UNCLASSIFIED =	66 C.Y.		
BORROW =	113 C.Y.		
EXE. =	66 C.Y.	EMB. =	87 C.Y.
BOR. =	113 C.Y.	+30% =	26 C.Y.
		WASTE =	66 C.Y.
SUBTOTAL =	179 C.Y.	SUBTOTAL =	179 C.Y.
LESS =	113 C.Y.	LESS =	113 C.Y.
TOTAL =	66 C.Y.	TOTAL =	66 C.Y.

STV 100 Years
STV Incorporated
4960 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



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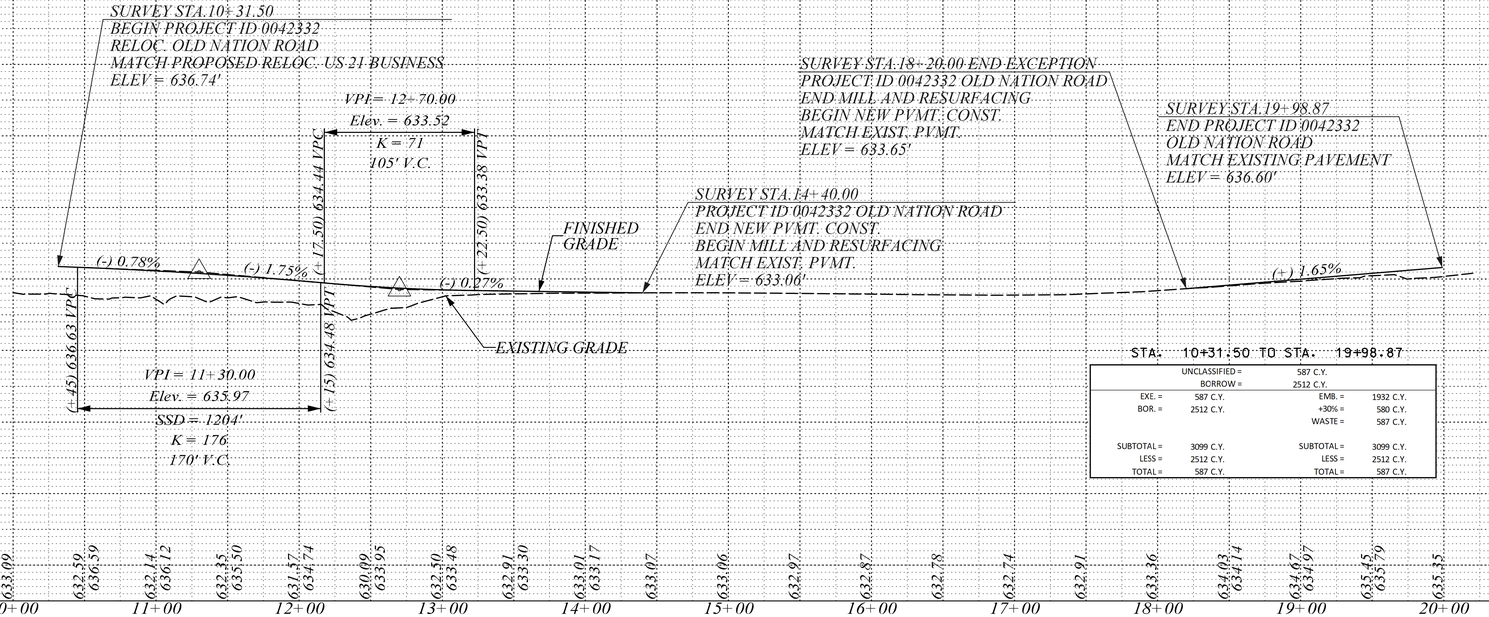
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21 SC 5	28

OLD NATION RD.

SEE SHEETS 10 AND 20 FOR OLD NATION ROAD PLAN

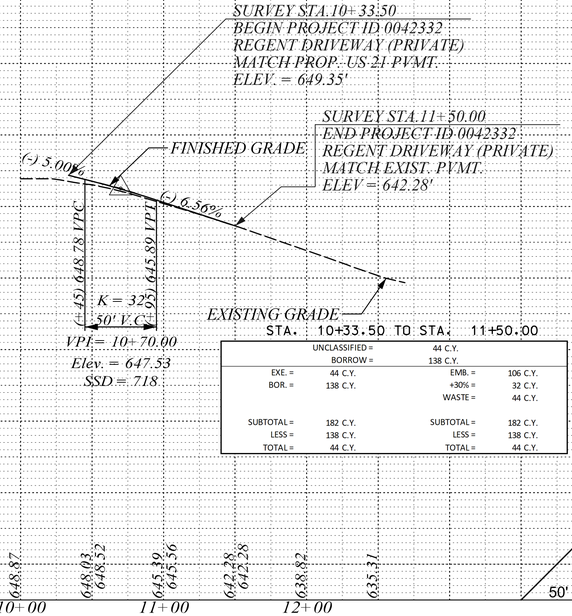


STA. 10+31.50 TO STA. 19+98.87

UNCLASSIFIED =	587 C.Y.		
BORROW =	2512 C.Y.		
EXE. =	587 C.Y.	EMB. =	1932 C.Y.
BOR. =	2512 C.Y.	+30% =	580 C.Y.
		WASTE =	587 C.Y.
SUBTOTAL =	3099 C.Y.	SUBTOTAL =	3099 C.Y.
LESS =	2512 C.Y.	LESS =	2512 C.Y.
TOTAL =	587 C.Y.	TOTAL =	587 C.Y.

REGENT DRIVEWAY

SEE SHEET 11 FOR REGENT DRIVEWAY PLAN

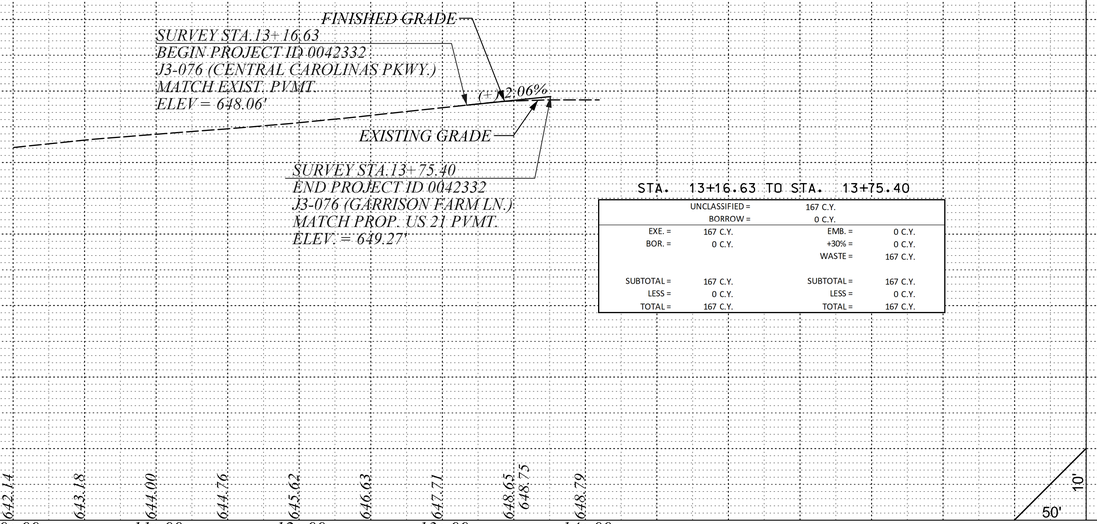


STA. 10+33.50 TO STA. 11+50.00

UNCLASSIFIED =	44 C.Y.		
BORROW =	138 C.Y.		
EXE. =	44 C.Y.	EMB. =	106 C.Y.
BOR. =	138 C.Y.	+30% =	32 C.Y.
		WASTE =	44 C.Y.
SUBTOTAL =	182 C.Y.	SUBTOTAL =	182 C.Y.
LESS =	138 C.Y.	LESS =	138 C.Y.
TOTAL =	44 C.Y.	TOTAL =	44 C.Y.

J3-076 (CENTRAL CAROLINAS PKWY.)

SEE SHEET 11 FOR J3-076 (CENTRAL CAROLINAS PKWY.) PLAN



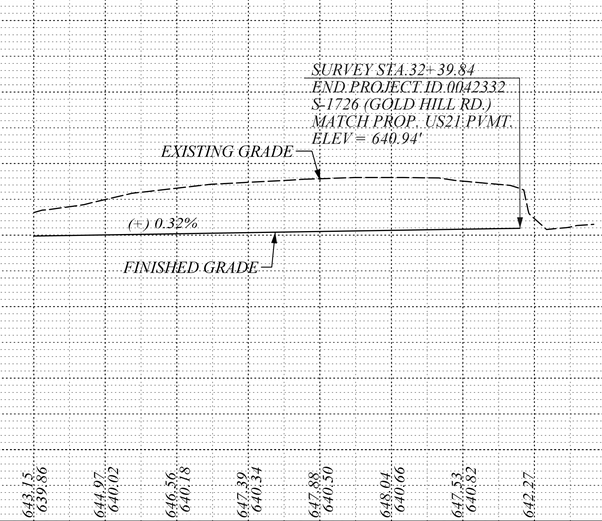
STA. 13+16.63 TO STA. 13+75.40

UNCLASSIFIED =	167 C.Y.		
BORROW =	0 C.Y.		
EXE. =	167 C.Y.	EMB. =	0 C.Y.
BOR. =	0 C.Y.	+30% =	0 C.Y.
		WASTE =	167 C.Y.
SUBTOTAL =	167 C.Y.	SUBTOTAL =	167 C.Y.
LESS =	0 C.Y.	LESS =	0 C.Y.
TOTAL =	167 C.Y.	TOTAL =	167 C.Y.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

S-1726 (GOLD HILL RD)

SEE SHEETS 9 AND 19 FOR GOLD HILL ROAD PLAN



STV Incorporated
100 Years
1969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

Christopher E. Carlstedt
No. 22780
11/1/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C01338
CERTIFICATE OF AUTHORIZATION

DocuSign Envelope ID: 6C69C3D3-733A-4F71-8C75-F51EC18F5F36

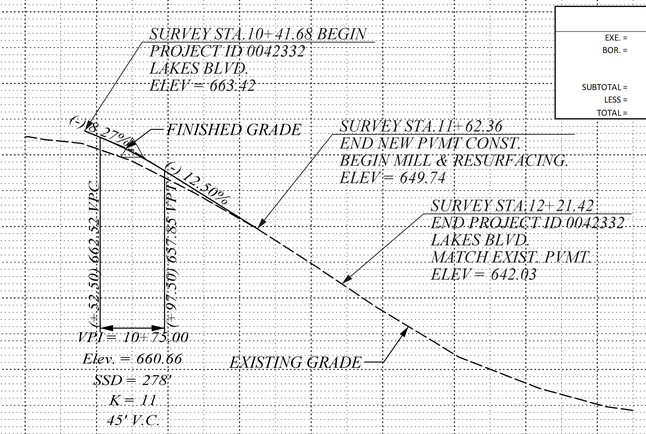
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21 SC 51	29

LAKES BLVD.

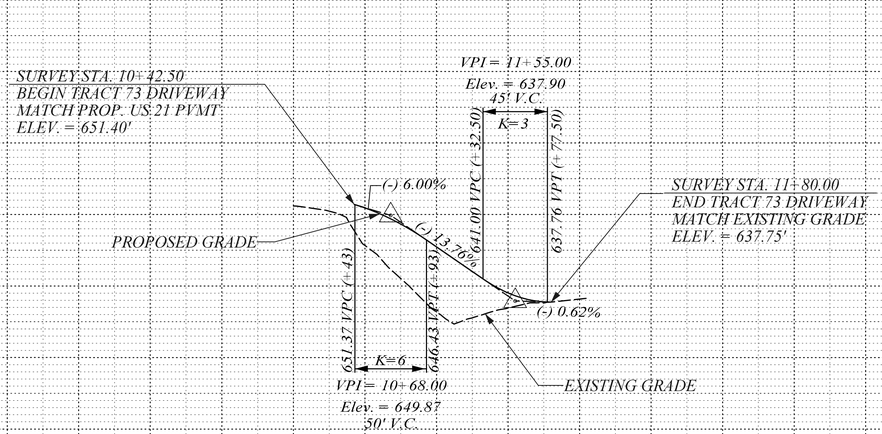
SEE SHEET 12 FOR LAKES BLVD.PLAN

STA. 10+41.68 TO STA. 12+21.42

UNCLASSIFIED =		159 C.Y.	
BORROW =		155 C.Y.	
EXE. =	159 C.Y.	EMB. =	119 C.Y.
BOR. =	155 C.Y.	+30% =	36 C.Y.
		WASTE =	159 C.Y.
SUBTOTAL =	314 C.Y.	SUBTOTAL =	314 C.Y.
LESS =	155 C.Y.	LESS =	155 C.Y.
TOTAL =	159 C.Y.	TOTAL =	159 C.Y.



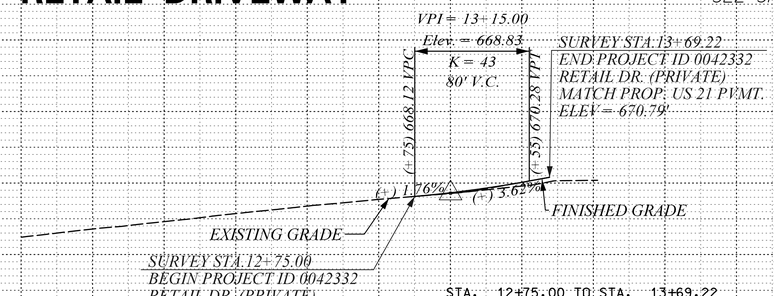
TRACT 73 DRIVEWAY



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

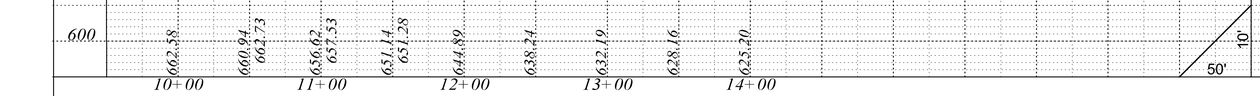
RETAIL DRIVEWAY

SEE SHEET 12 FOR RETAIL DRIVEWAY PLAN



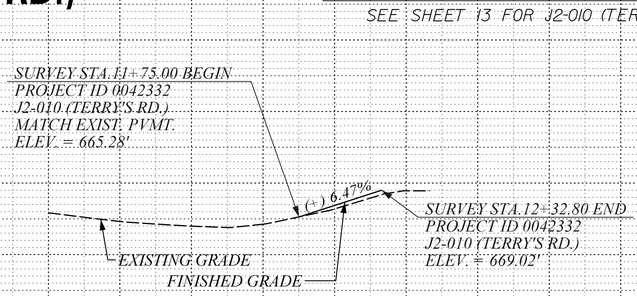
STA. 12+75.00 TO STA. 13+69.22

UNCLASSIFIED =		89 C.Y.	
BORROW =		7 C.Y.	
EXE. =	89 C.Y.	EMB. =	5 C.Y.
BOR. =	7 C.Y.	+30% =	2 C.Y.
		WASTE =	89 C.Y.
SUBTOTAL =	96 C.Y.	SUBTOTAL =	96 C.Y.
LESS =	7 C.Y.	LESS =	7 C.Y.
TOTAL =	89 C.Y.	TOTAL =	89 C.Y.



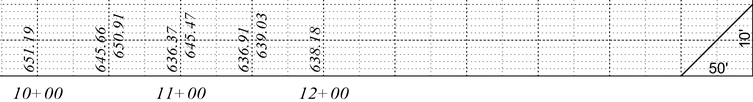
J2-010 (TERRY'S RD.)

SEE SHEET 13 FOR J2-010 (TERRY'S RD.) PLAN



STA. 11+75.00 TO STA. 12+32.80

UNCLASSIFIED =		4 C.Y.	
BORROW =		147 C.Y.	
EXE. =	4 C.Y.	EMB. =	113 C.Y.
BOR. =	147 C.Y.	+30% =	34 C.Y.
		WASTE =	4 C.Y.
SUBTOTAL =	151 C.Y.	SUBTOTAL =	151 C.Y.
LESS =	147 C.Y.	LESS =	147 C.Y.
TOTAL =	4 C.Y.	TOTAL =	4 C.Y.



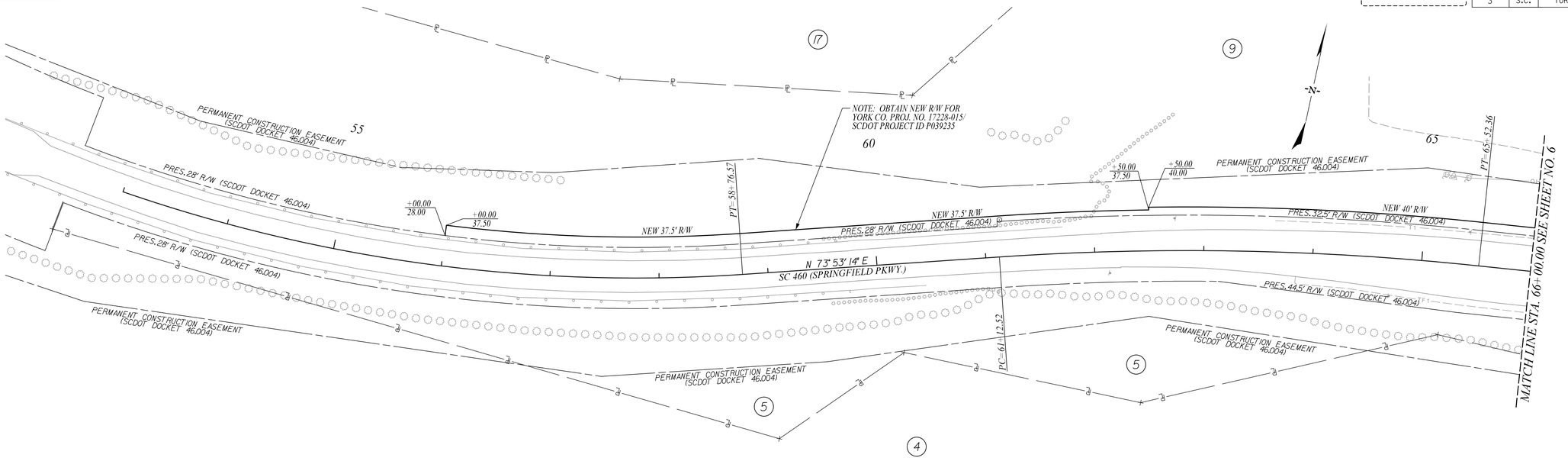
STV 100 Years
STV Incorporated
(960 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLTEN
9/11/2023
SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

DocuSign Envelope ID: 6C69C3D3-733A-4F71-8C75-F51EC18F5F36

FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	30





50 0 50 100
scale feet

STV 100 Years
STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2	TGM	9/9/2020	ADDED SHEET 30 TO SHOW NEW R/W ON TRACT 10
1	JDS	7/22/2020	ADDED SHEET 30 TO SHOW NEW R/W ON TRACT 9

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

SCALE 1" = 50' RTE. DWG. NO.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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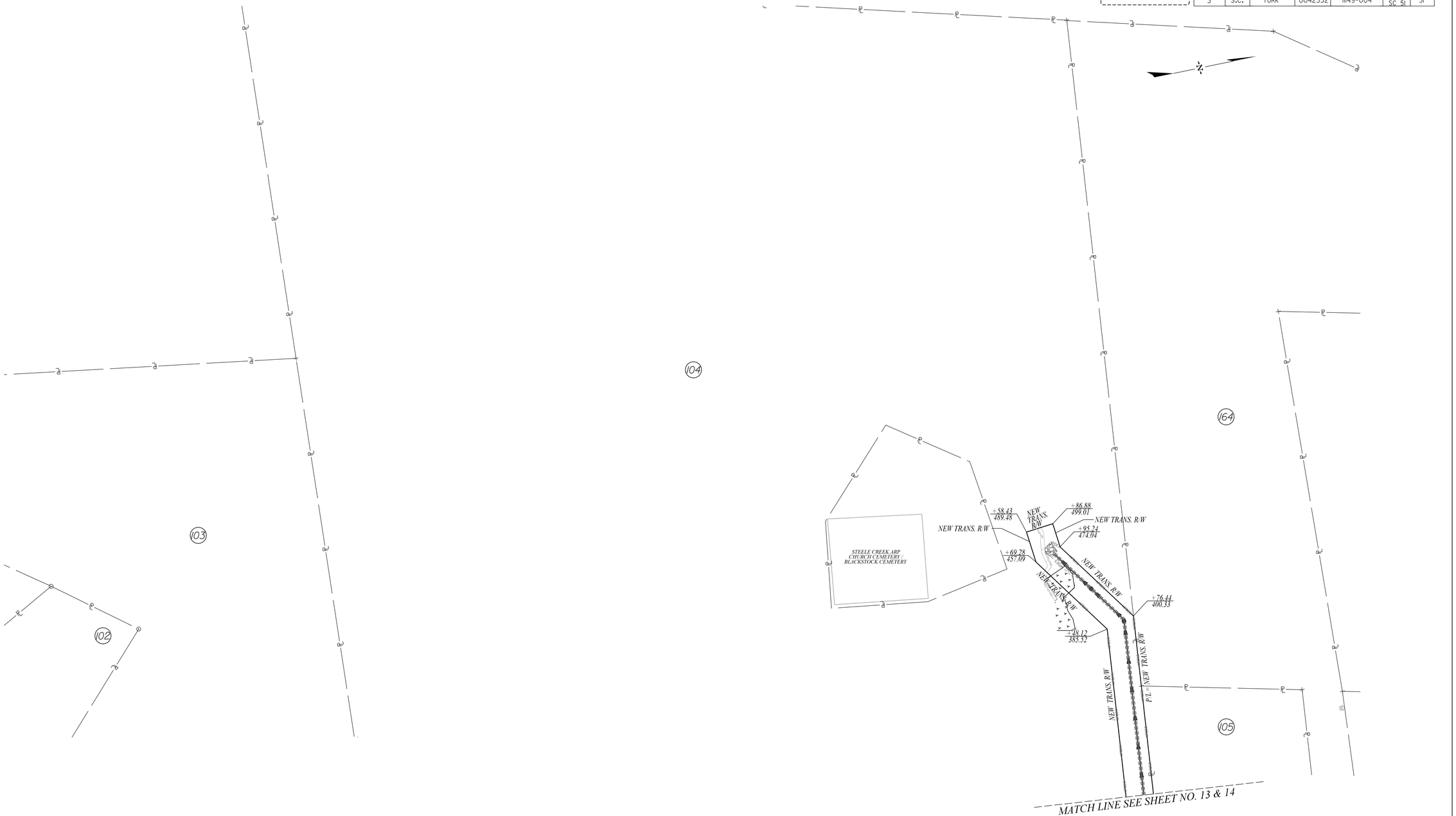
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	31



SEE SHEETS 4 - 4D FOR R/W DATA
SEE SHEETS 5A - 51 FOR REFERENCE DATA
SEE SHEET D31 FOR DRAINAGE

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

DocuSigned by: SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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1	JDS	7/15/2020	TR 104: ADDED SHEET 31 TO SHOW OUTFALL PIPE AND NEW R/W

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

PLAN SHEET

SCALE 1" = 50' RTE. US 21 DWG. NO. 31

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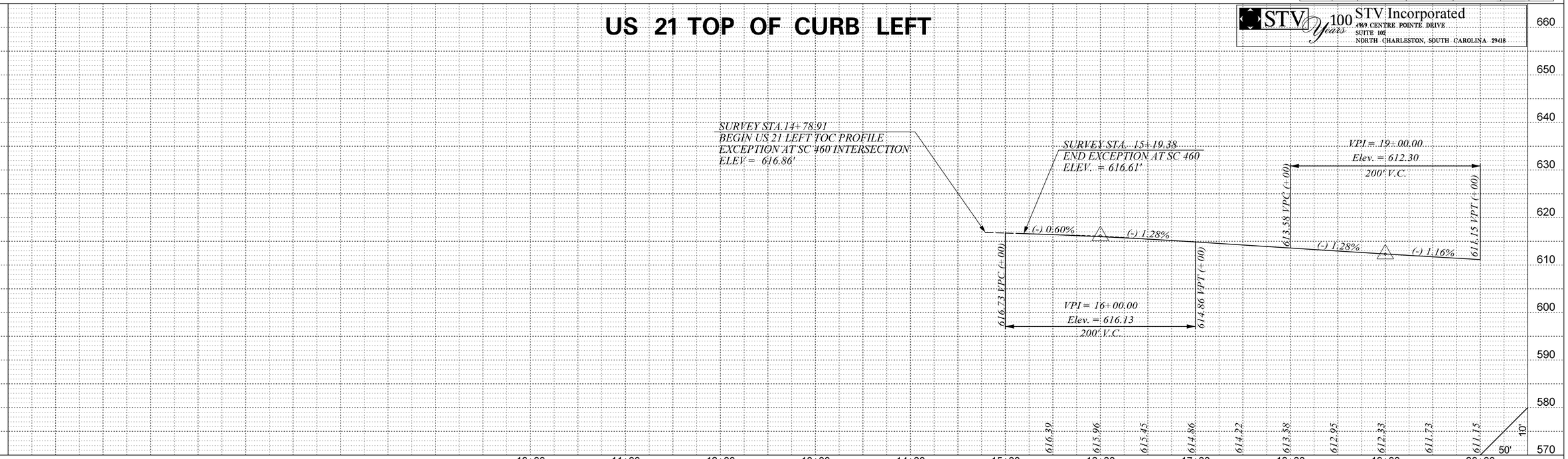
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	32

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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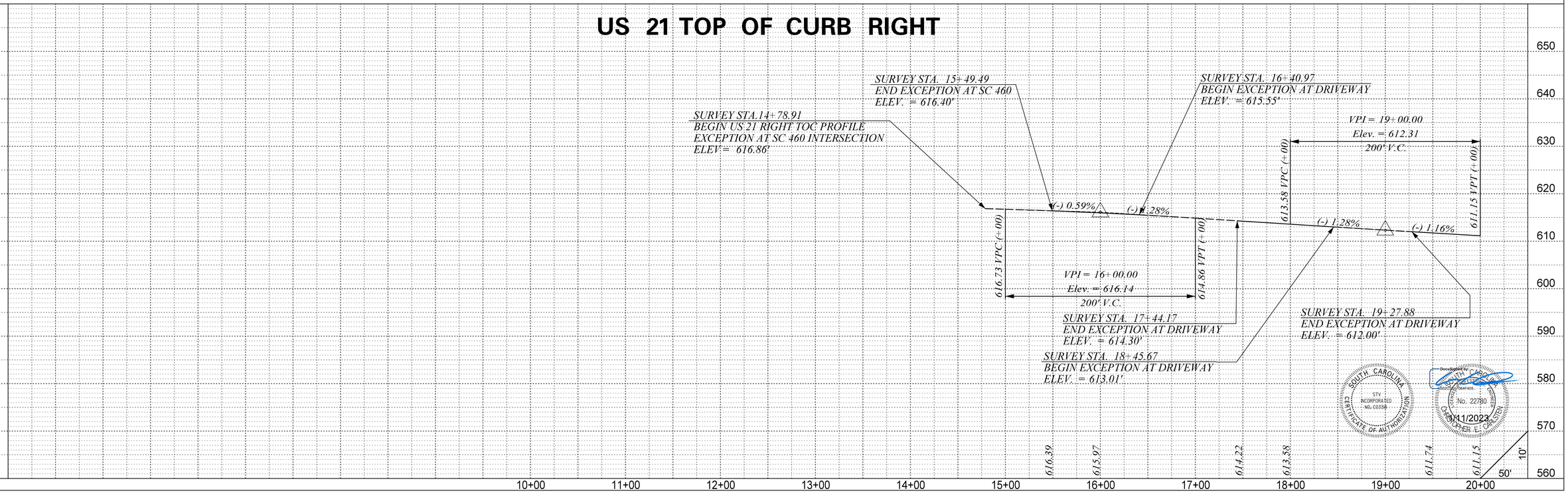

SOUTH CAROLINA STV INCORPORATED NO. C03398 CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN No. 22780 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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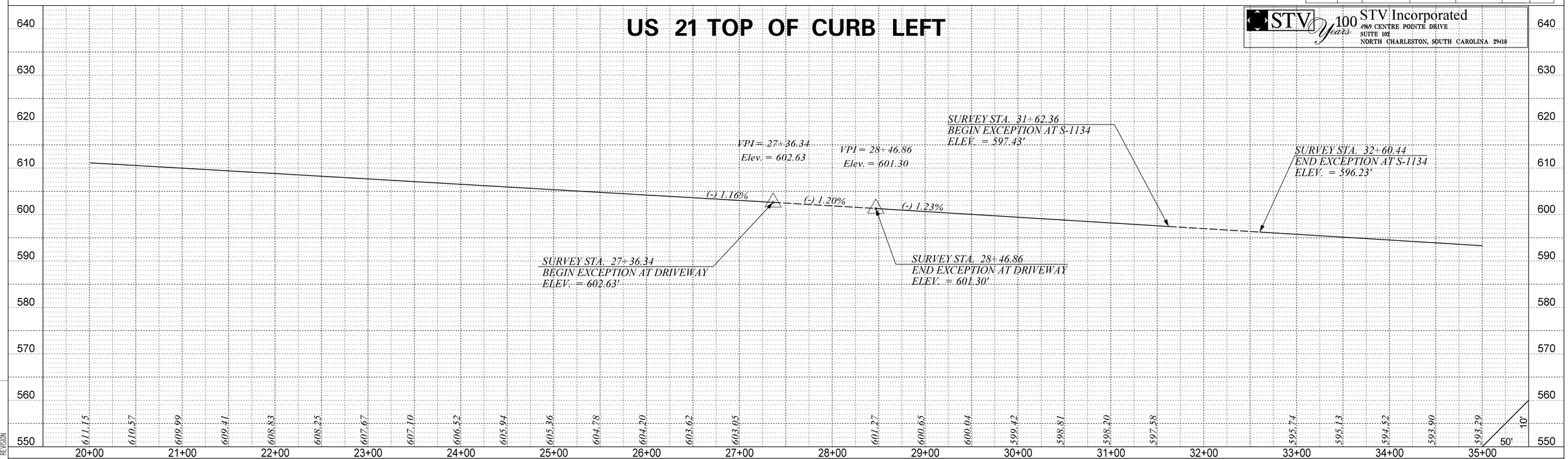
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	33

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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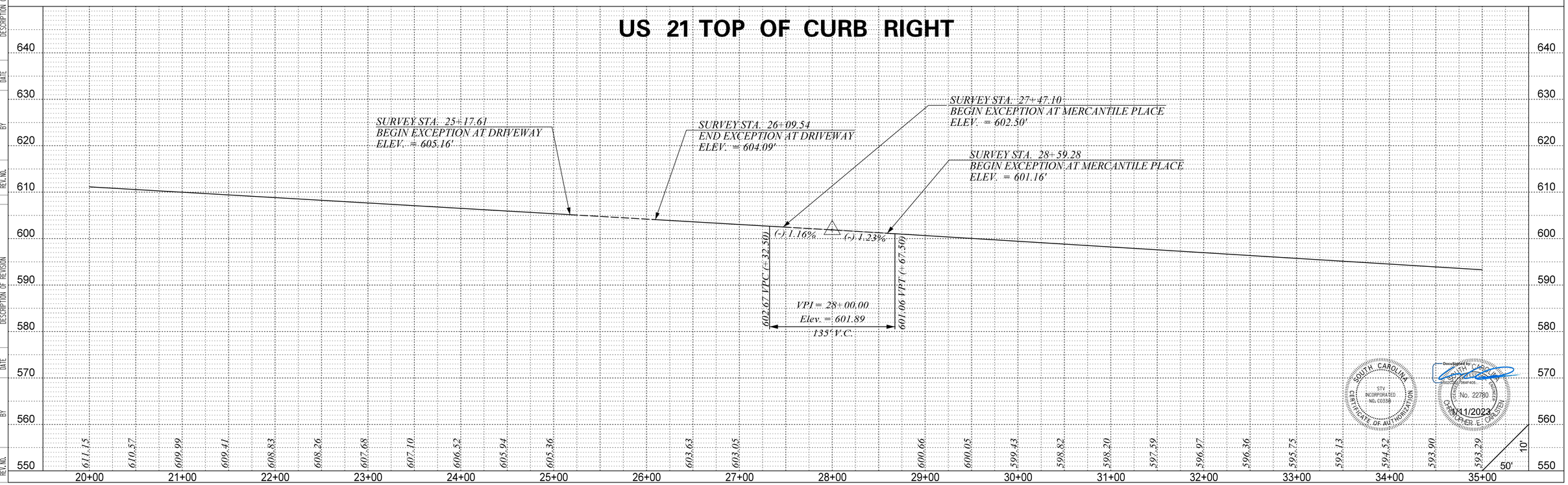

SOUTH CAROLINA STV INCORPORATED NO. C03398 CERTIFICATE OF AUTHORIZATION

DocuSigned by: STATE OF SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSEN 11/11/2023

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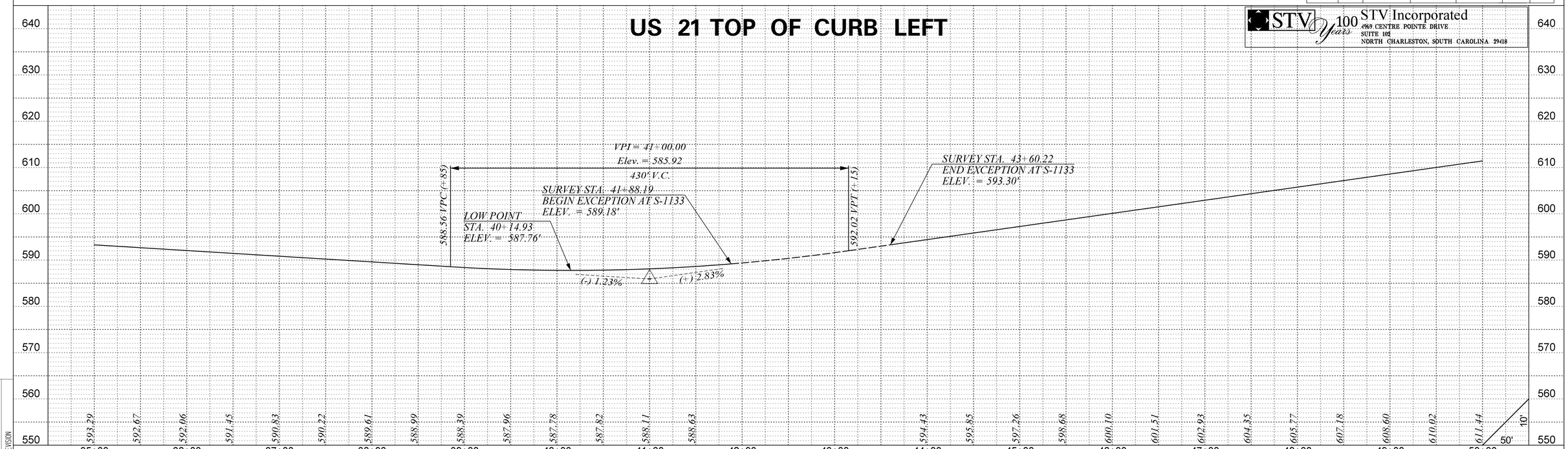
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NOS.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	34

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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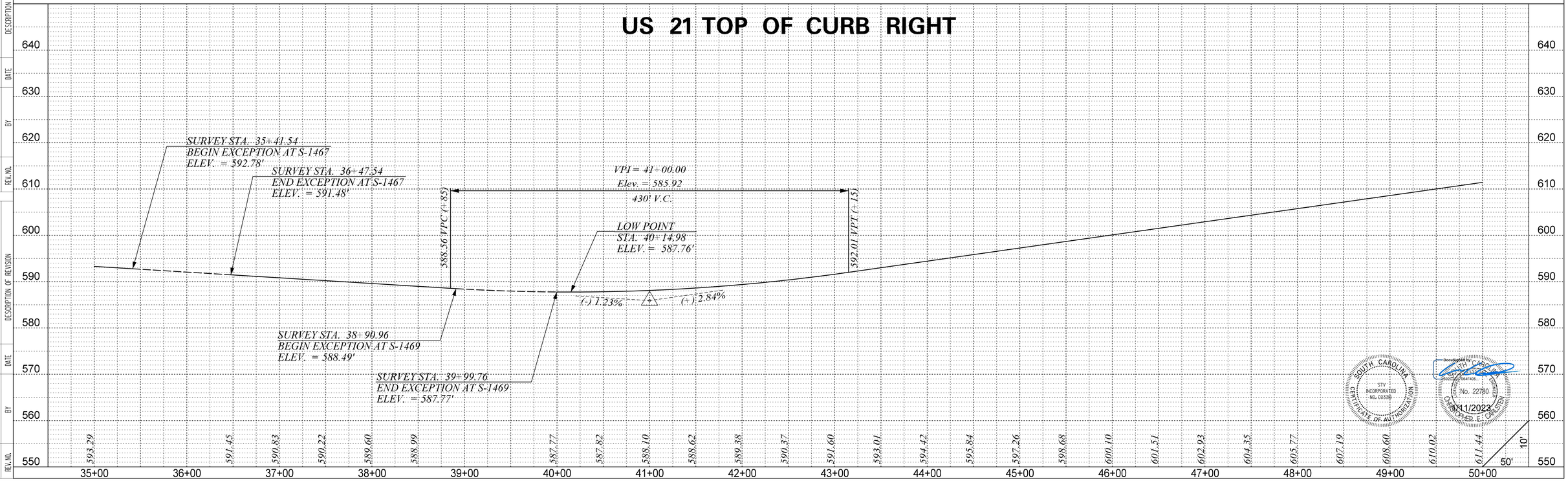

SOUTH CAROLINA
STV INCORPORATED
No. C03361
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
Date: 2023.04.11 08:44:40 -04'00'
No. 22780
CHRISTOPHER E. CARSTEN
4/11/2023

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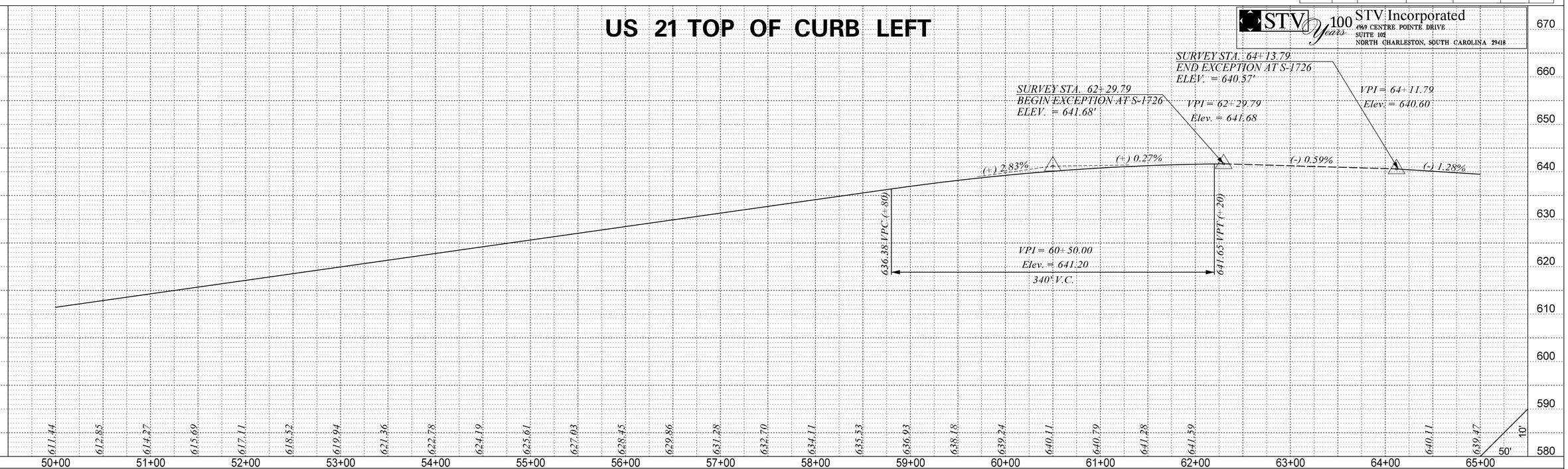
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	35

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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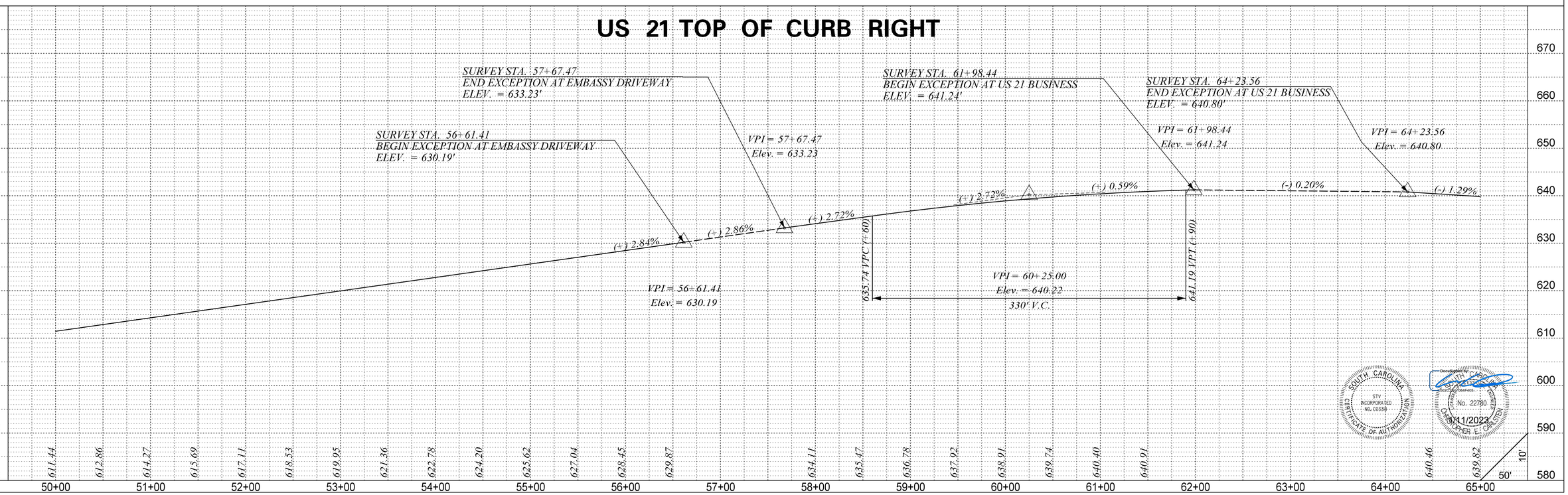

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

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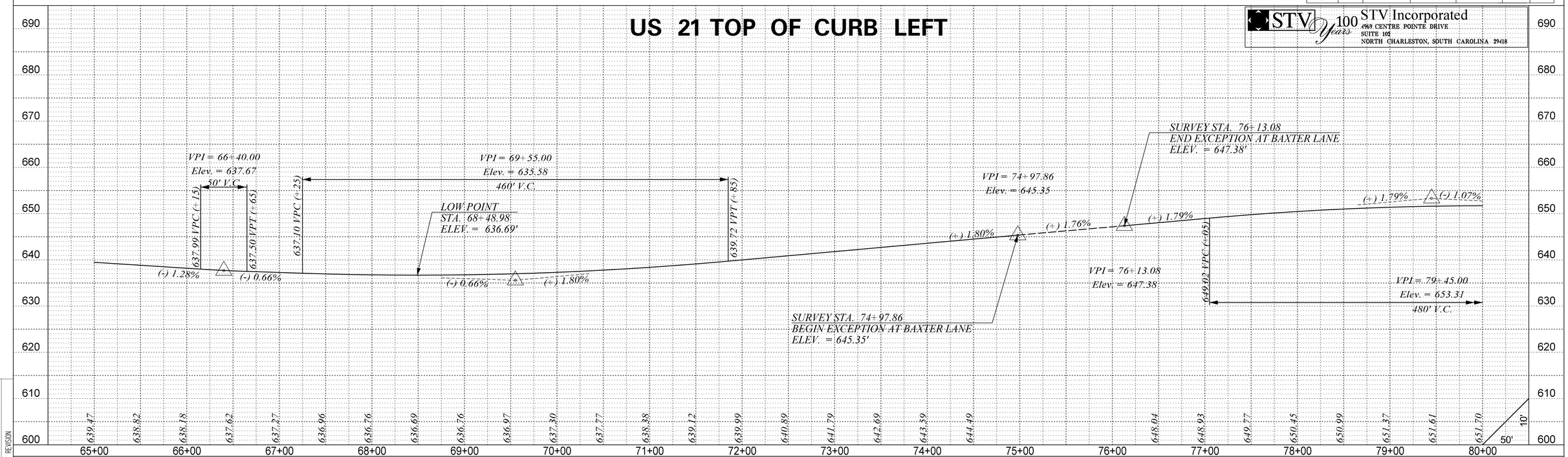
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	36

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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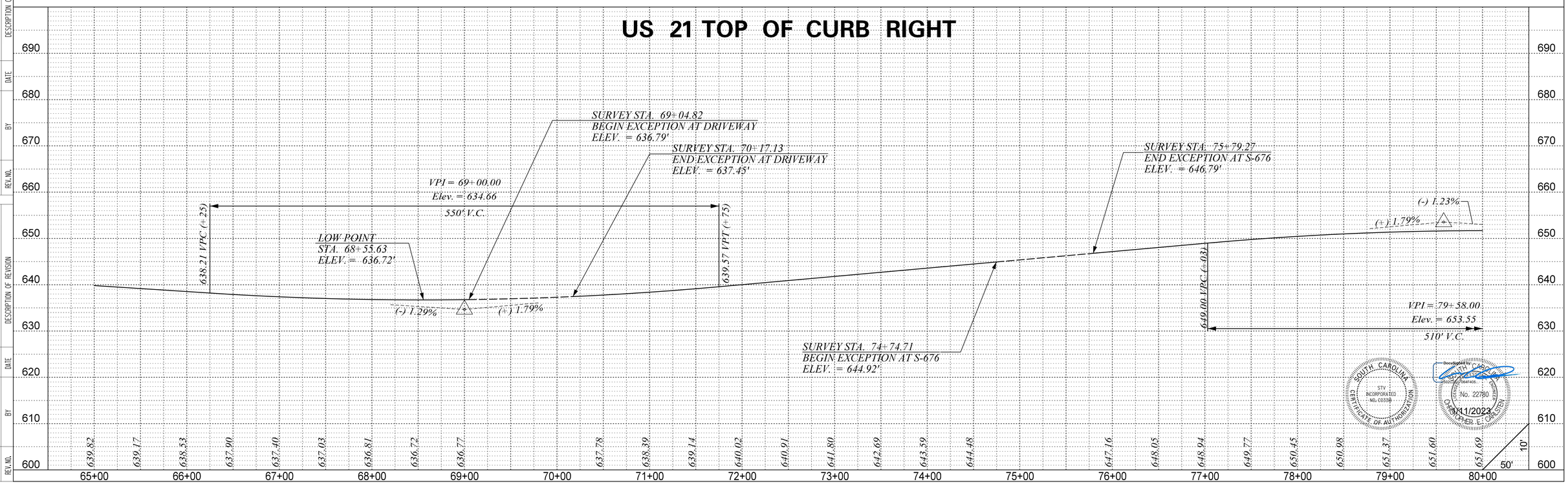

SOUTH CAROLINA STV INCORPORATED NO. C03380 CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN No. 22780 11/11/2023

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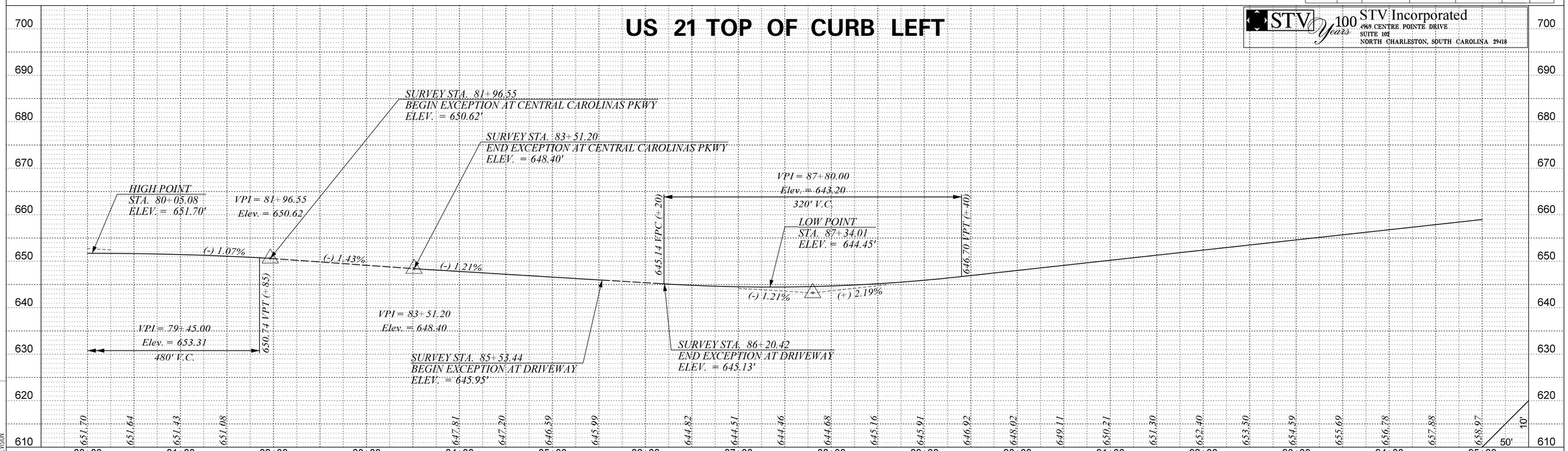
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	37

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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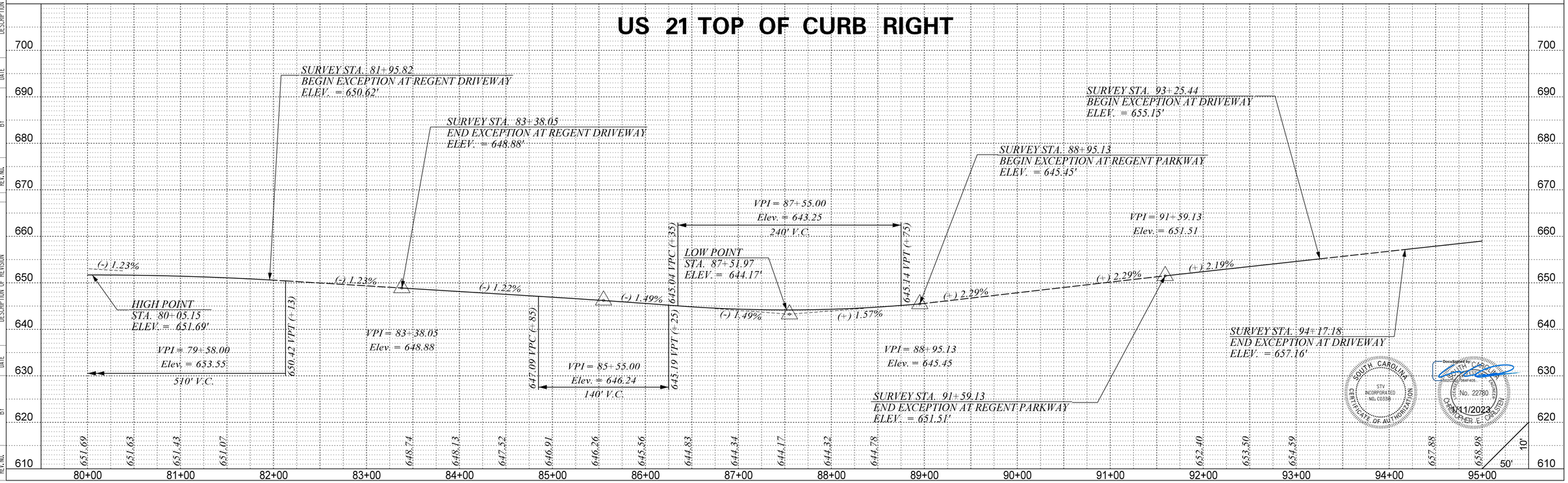

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

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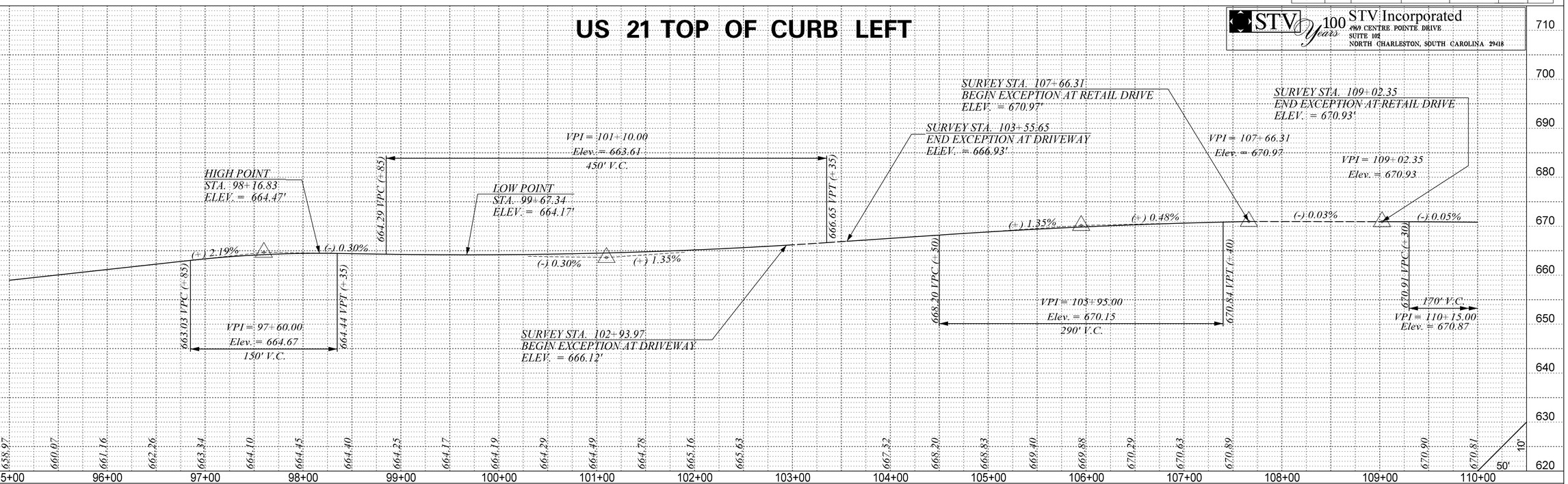
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	38

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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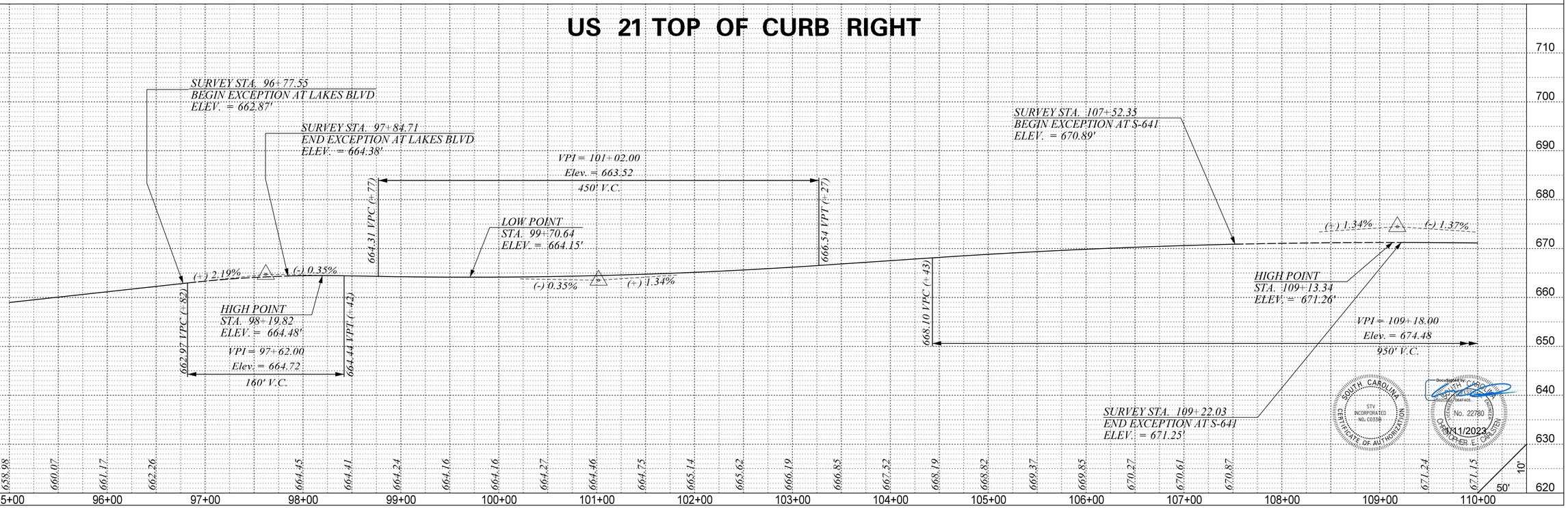

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

DocuSigned by: STEVEN C. CARLSTEN No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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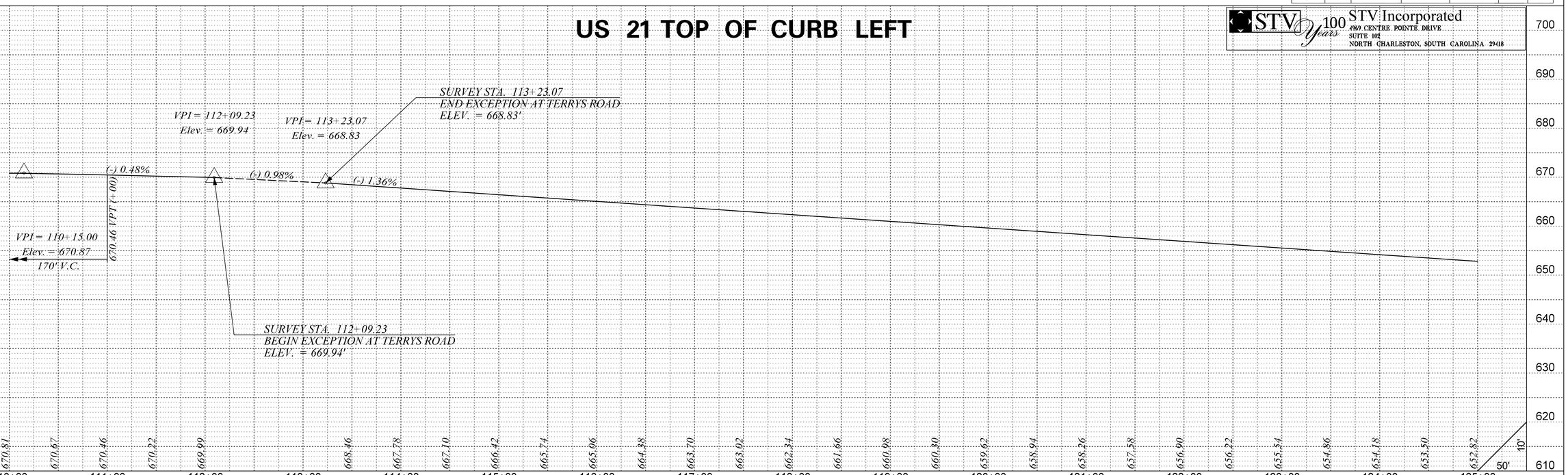
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	39

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



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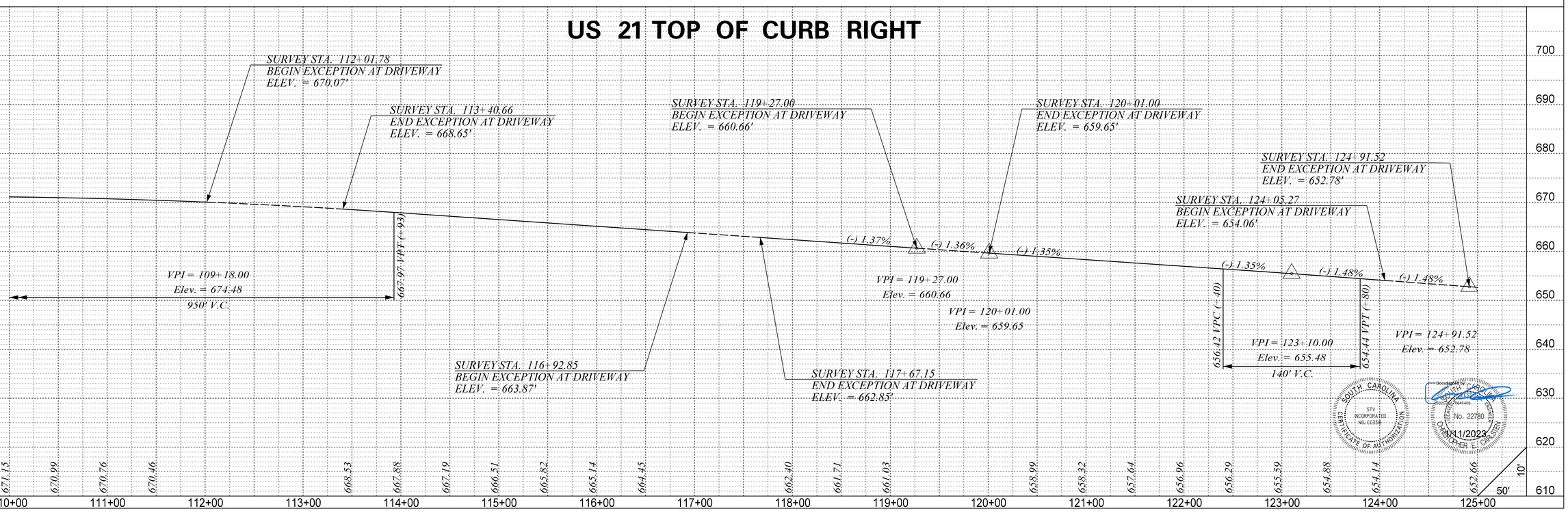

SOUTH CAROLINA
STV INCORPORATED
No. C03361
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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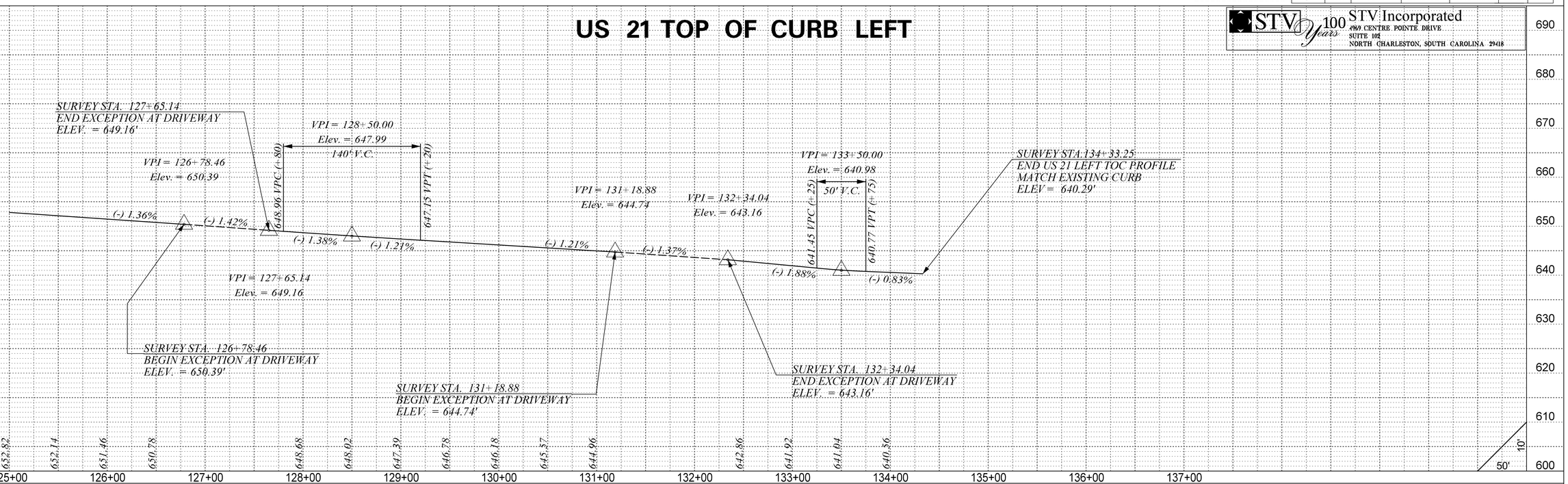
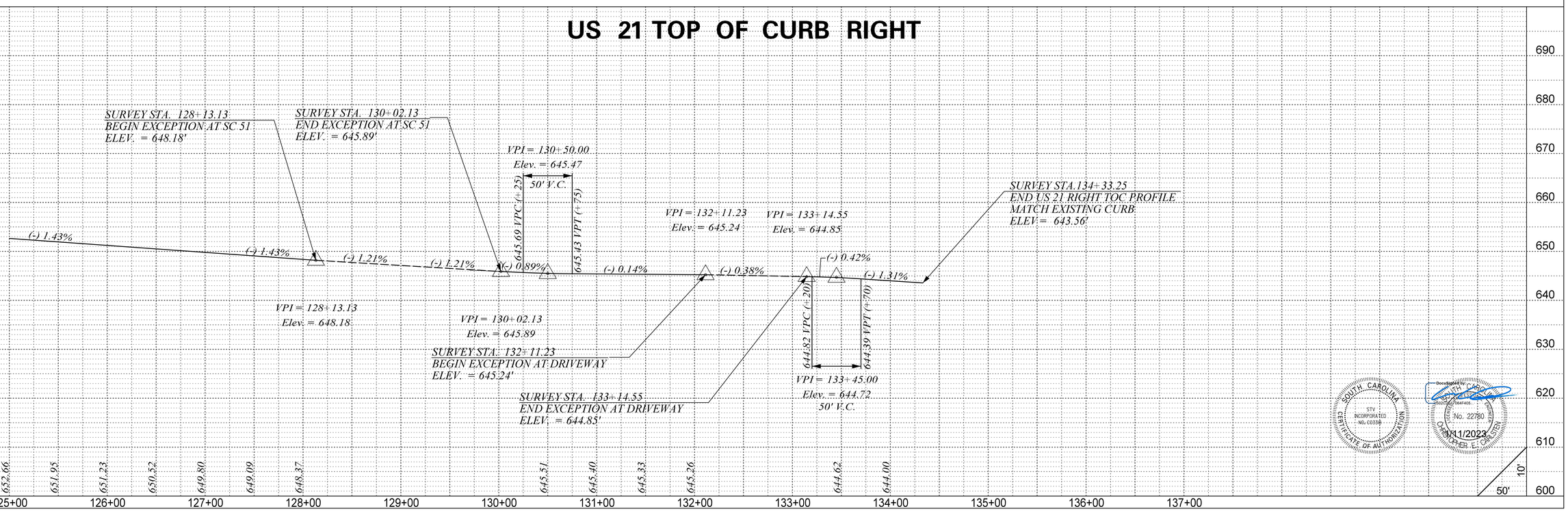
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	40

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 TOP OF CURB LEFT



US 21 TOP OF CURB RIGHT



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SOUTH CAROLINA
STV INCORPORATED
No. C0358
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
4/11/2023

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4/10/2023

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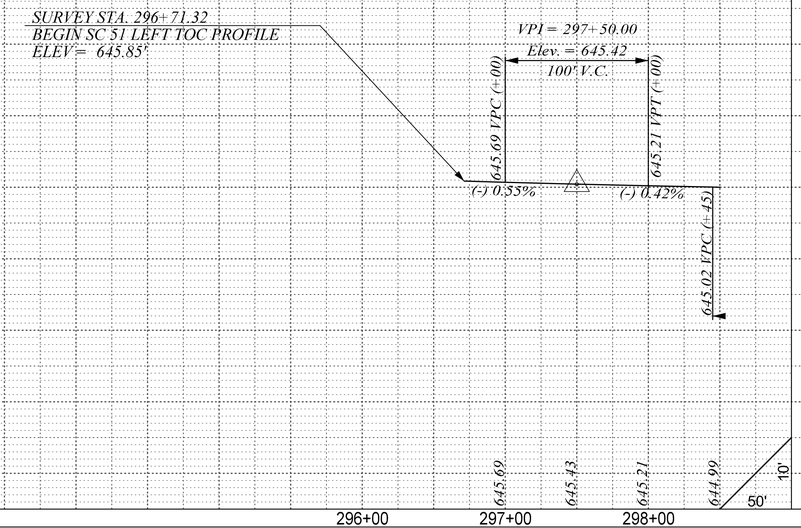
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	41

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51 TOP OF CURB LEFT



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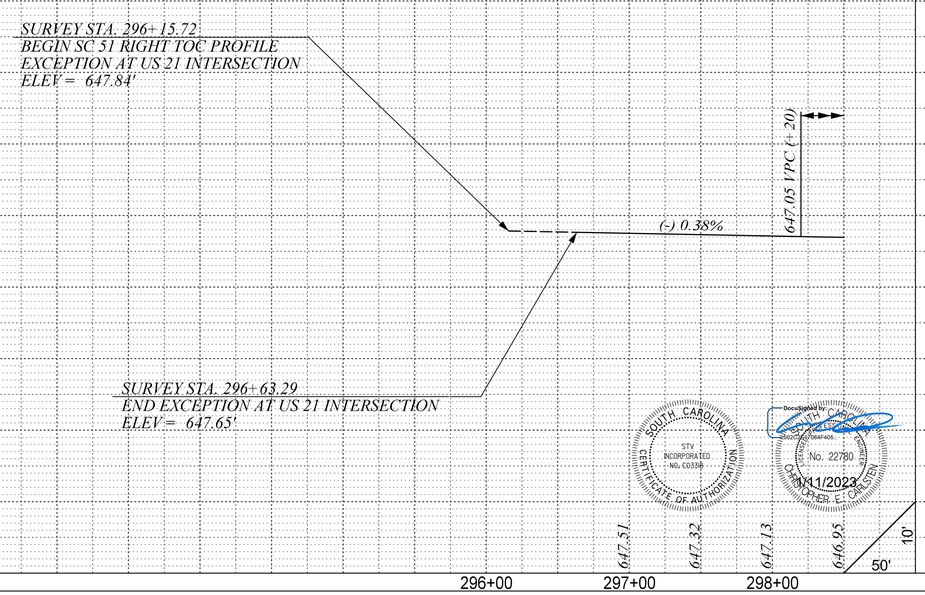

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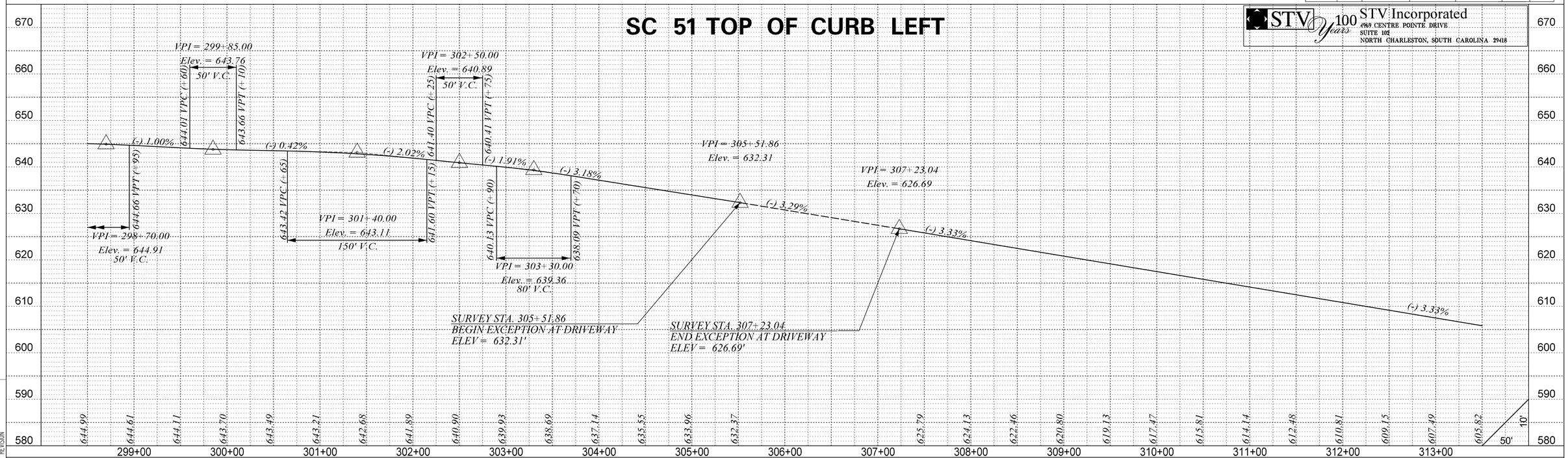
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	42

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51 TOP OF CURB LEFT



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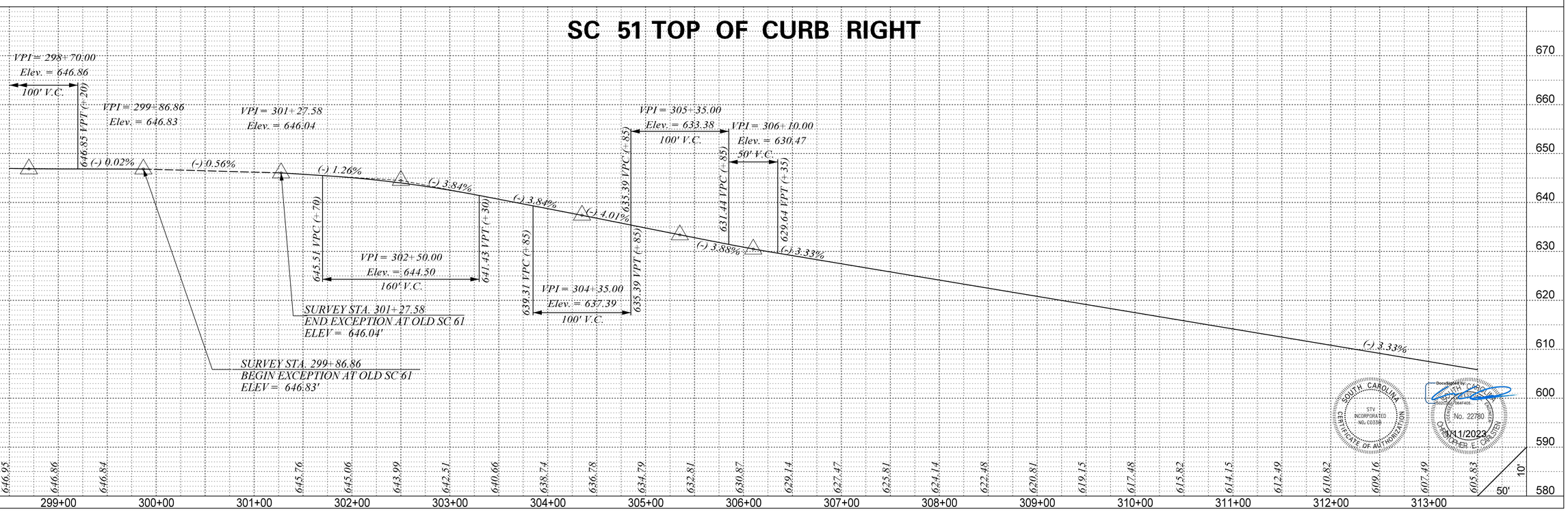

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN No. 22780 1/11/2023

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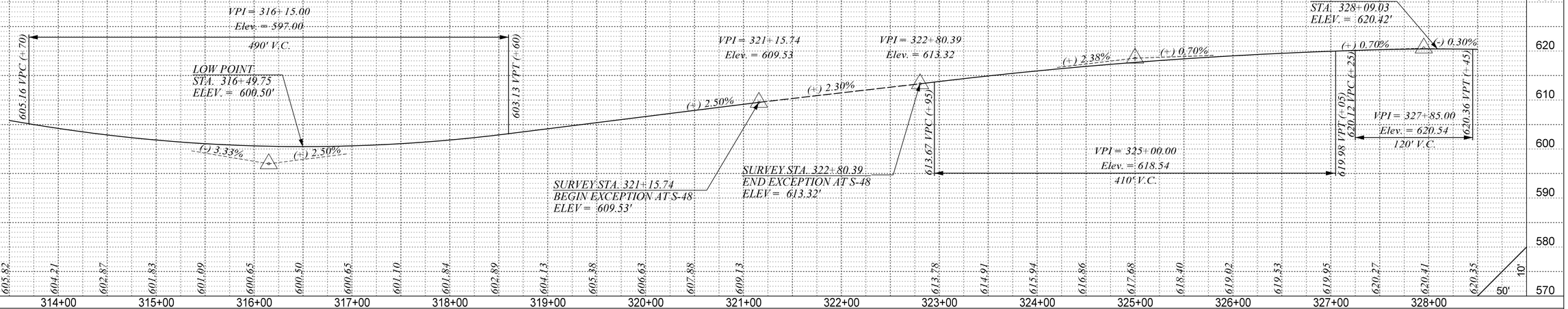
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	43

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51 TOP OF CURB LEFT



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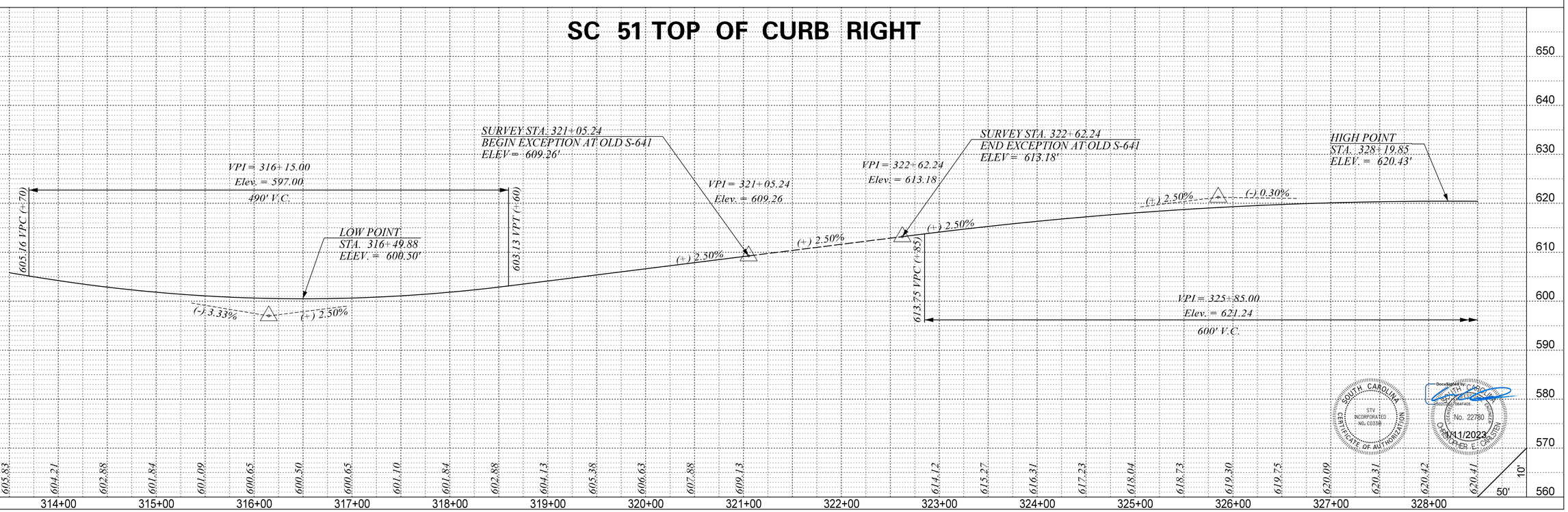

SOUTH CAROLINA
STV INCORPORATED
No. C0358
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
4/11/2023

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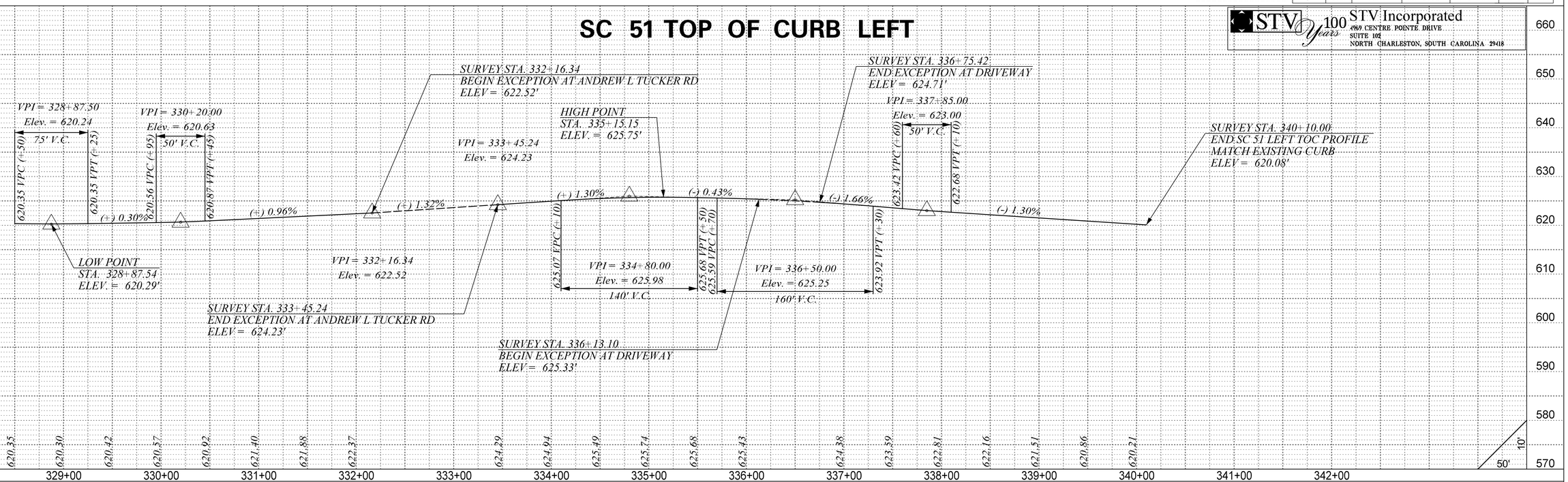
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	44

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51 TOP OF CURB LEFT



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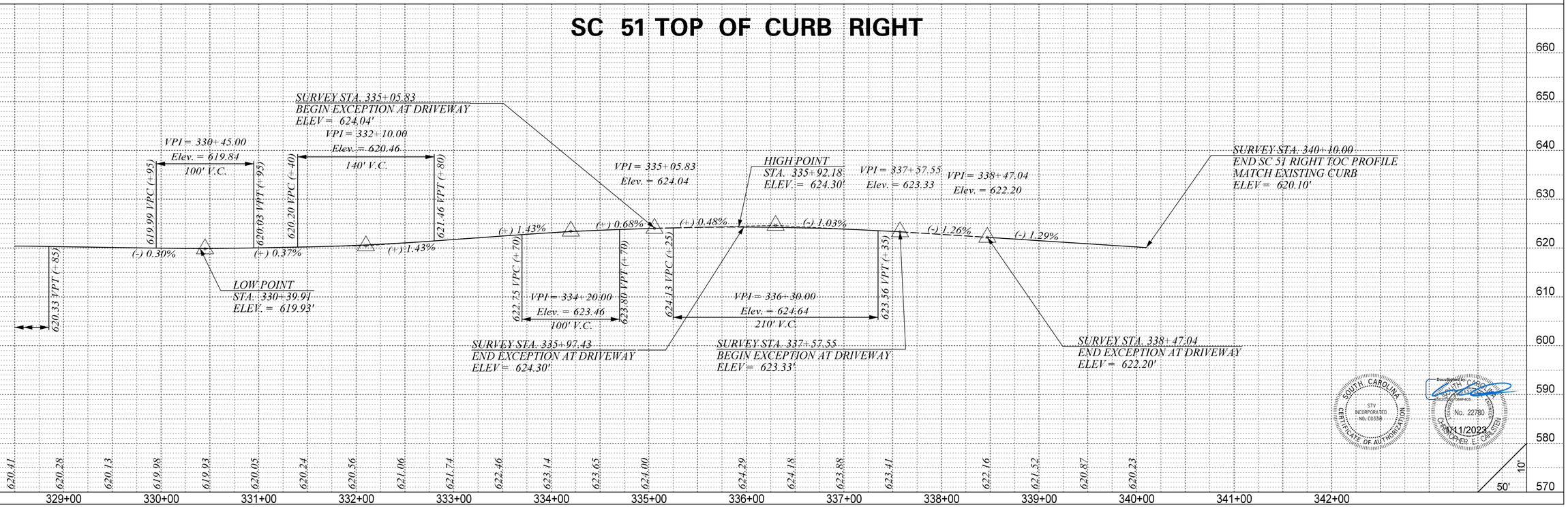

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN No. 22780 1/11/2023

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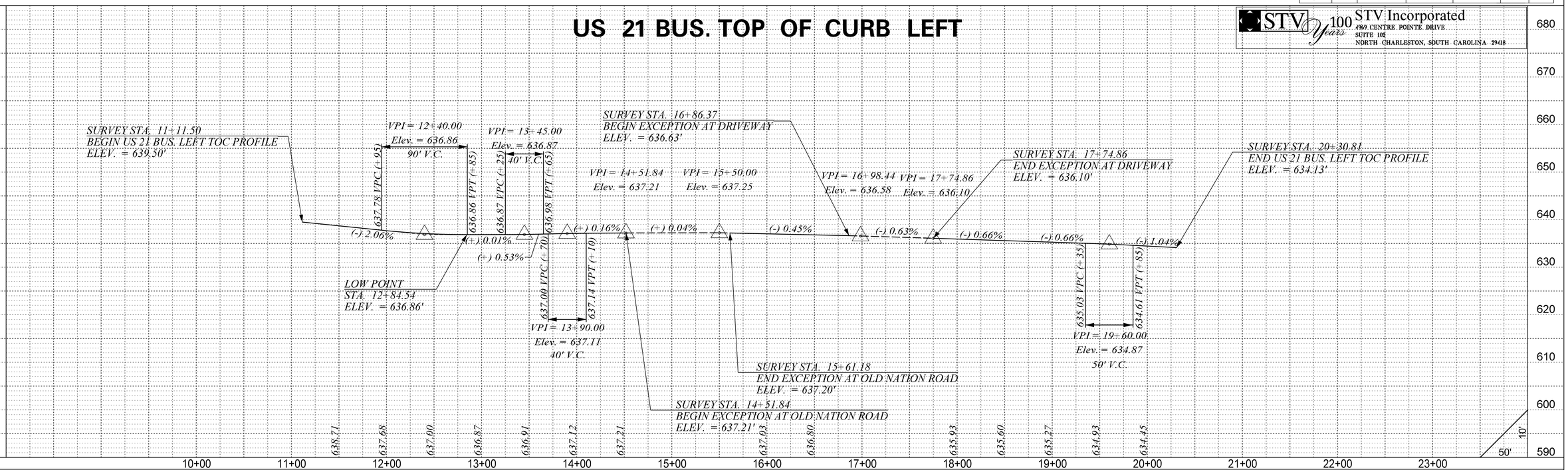
FINAL PLANS

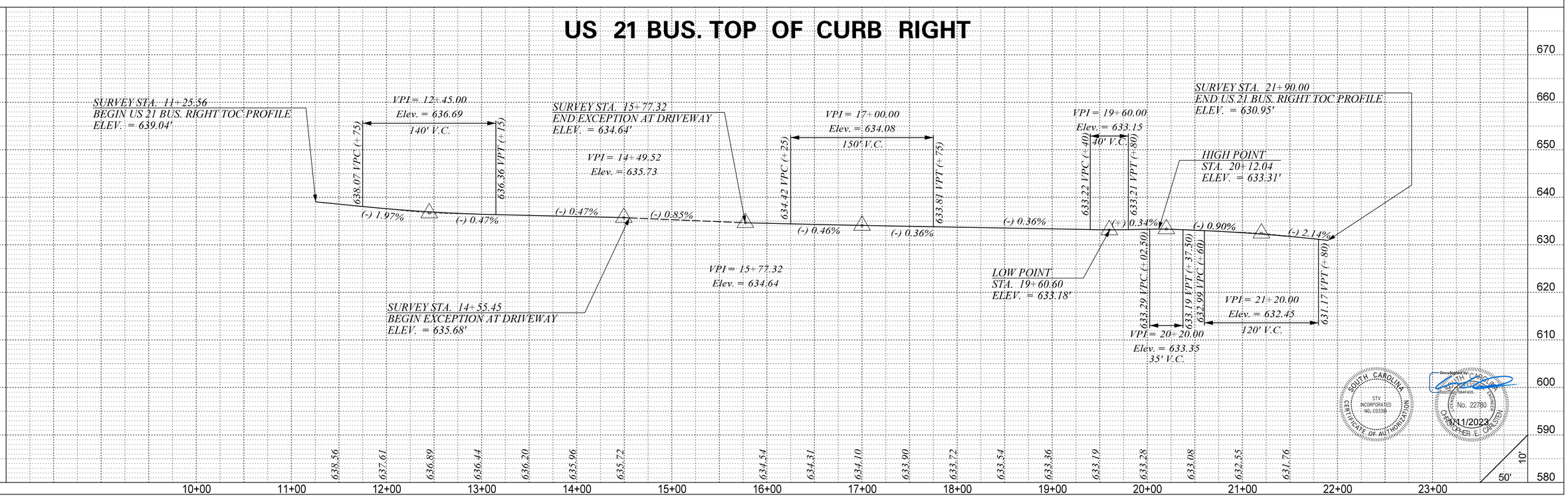
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	45

STV 100 Years
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 BUS. TOP OF CURB LEFT



US 21 BUS. TOP OF CURB RIGHT



SOUTH CAROLINA
STV INCORPORATED
NO. C03398
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
11/11/2023

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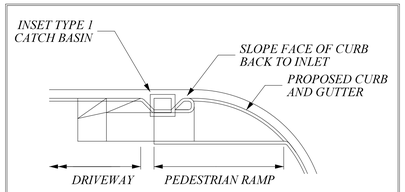
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	D6

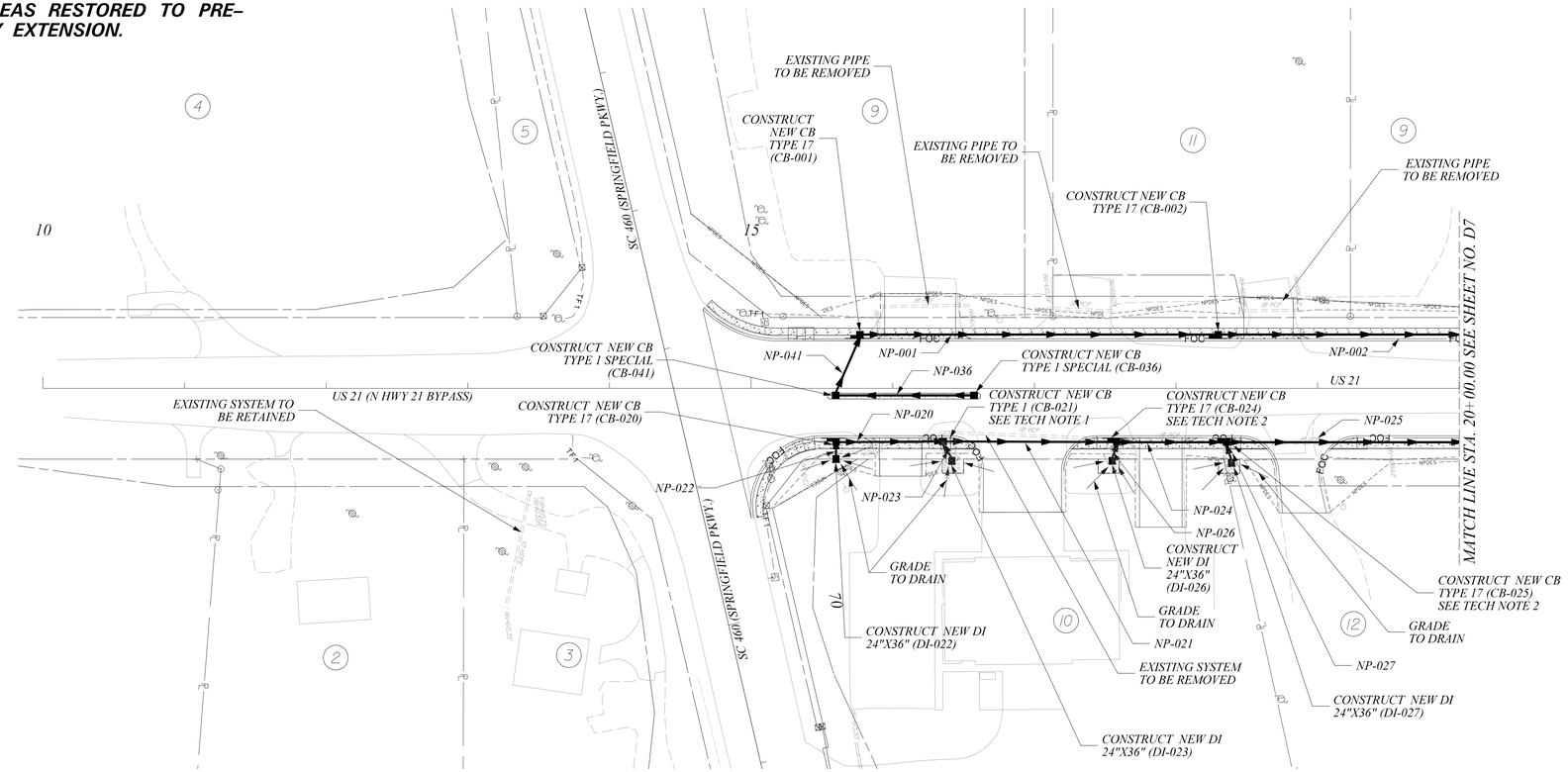
GENERAL NOTES:

1. CONTRACTOR SHALL USE BEVELED END SECTIONS FOR ALL DRIVEWAY PIPES AND ROAD SIDE PIPE PER SCDOT STD DWG 719–610–00
2. CONTRACTOR SHALL PLACE RIPRAP & GEOTEXTILE FOR SLOPE PROTECTION ON PIPE ENDS PER SCDOT STD DWG 719–610–00 & 804–305–01 AND AS DIRECTED BY THE R.C.E.
3. CONTRACTOR TO CLEAN RETAINED PIPES AS DIRECTED BY THE R.C.E.
4. CONTRACTOR TO USE PUMP–AROUND DEWATERING METHOD FOR INSTALLATION OF PIPE/CULVERT. WORK TO BE PERFORMED WITHIN THE LIMITS OF PERMANENT AND TEMPORARY FILLS AS DEPICTED. ALL ASSOCIATED TEMPORARY STRUCTURES AND FILLS LOCATED WITHIN THE JURISDICTIONAL CHANNEL WILL BE REMOVED IN THEIR ENTIRETY WITHIN 90 DAYS AND DISTURBED AREAS RESTORED TO PRE–DISTURBANCE CONDITIONS. IF NEEDED, CONTRACTOR MAY REQUEST A 90–DAY EXTENSION.



CONSTRUCTION NOTES:
1. ALIGN BACK OF TYPE-1 CATCH BASIN HOOD WITH RAMP CURBING - TYP.
2. HOOD/STRUCTURE TO BE POSITIONED SO AS TO MATCH CURB RAMP END
3. SLOPE FACE OF CURBING AT 45 DEGREES TO TIE BACK TO TYPE-1 HOOD
4. INSET INLET BETWEEN THE RAMP CURB RETURN AND THE DRIVEWAY CUT SO AS TO HAVE FULL CURB HEIGHT FOR THE ENTIRE TYPE-1 GRATE LENGTH

TYPE–1 CATCH BASIN INSET DETAIL
N.T.S.



TECHNICAL NOTES:

1. COORDINATE CB TYPE–1 SPECIAL (CB–021) LOCATION WITH PEDESTRIAN RAMP CURBING. SEE DETAIL THIS SHEET.
2. COORDINATE CB TYPE–17 (CB–024 & CB–025) LOCATIONS TO NOT CONFLICT WITH PEDESTRIAN RAMP.

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 1/11/2023 KELLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 1

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	D6A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-001	18	1	248.96	0.58	CB-001	C.B. TYPE 17	15+74.17	610.20	CB-002	C.B. TYPE 17	18+27.13	608.73	3.00	4.49	-	10	-	-	III	-	16ga	-
Closed	NP-002	18	1	193.40	1.20	CB-002	C.B. TYPE 17	18+27.13	608.73	CB-003	C.B. TYPE 17	20+24.53	606.36	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-020	18	1	71.64	0.54	CB-020	C.B. TYPE 17	15+57.34	610.35	CB-021	C.B. TYPE 1 SP	16+35.64	609.94	3.76	4.48	-	10	S	-	III	-	16ga	-
Closed	NP-021	18	1	122.53	0.45	CB-021	C.B. TYPE 1 SP	16+35.64	609.94	CB-024	C.B. TYPE 17	17+55.50	609.37	3.31	3.76	7	10	-	-	III	-	16ga	-
Closed	NP-022	18	1	7.91	6.00	DI-022	D.I. 24"X36"	15+57.47	611.06	CB-020	C.B. TYPE 17	15+57.34	610.35	3.44	4.48	-	10	-	-	III	-	16ga	-
Closed	NP-023	18	1	11.50	5.13	DI-023	D.I. 24"X36"	16+39.28	610.73	CB-021	C.B. TYPE 1 SP	16+35.64	609.94	2.77	3.76	-	10	-	-	III	-	16ga	-
Closed	NP-024	24	1	81.50	1.69	CB-024	C.B. TYPE 17	17+55.50	608.87	CB-025	C.B. TYPE 17	18+33.00	607.43	3.31	3.69	7	10	-	-	III	-	16ga	-
Closed	NP-025	24	1	193.34	0.80	CB-025	C.B. TYPE 17	18+33.00	607.43	CB-028	C.B. TYPE 17	20+26.34	605.84	3.00	3.69	-	10	-	-	III	-	16ga	-
Closed	NP-026	18	1	9.71	3.12	DI-026	D.I. 24"X36"	17+52.48	609.80	CB-024	C.B. TYPE 1	17+55.50	609.37	1.70	3.31	7	10	-	-	III	-	16ga	-
Closed	NP-027	18	1	11.30	0.48	DI-027	D.I. 24"X36"	18+36.68	608.00	CB-025	C.B. TYPE 17	18+33.00	607.93	1.70	3.69	-	10	-	-	III	-	16ga	-
Closed	NP-036	18	1	93.72	0.50	CB-036	C.B. TYPE 1 SP	16+57.52	611.00	CB-041	C.B. TYPE 1 SP	15+59.81	610.51	3.00	4.44	-	10	-	-	III	-	16ga	-
Closed	NP-041	18	1	42.56	0.45	CB-041	C.B. TYPE 1 SP	15+59.81	610.51	CB-001	C.B. TYPE 17	15+74.17	610.30	4.39	4.44	-	10	S	-	III	-	16ga	-

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 PARIS PETERS
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12/4/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 2

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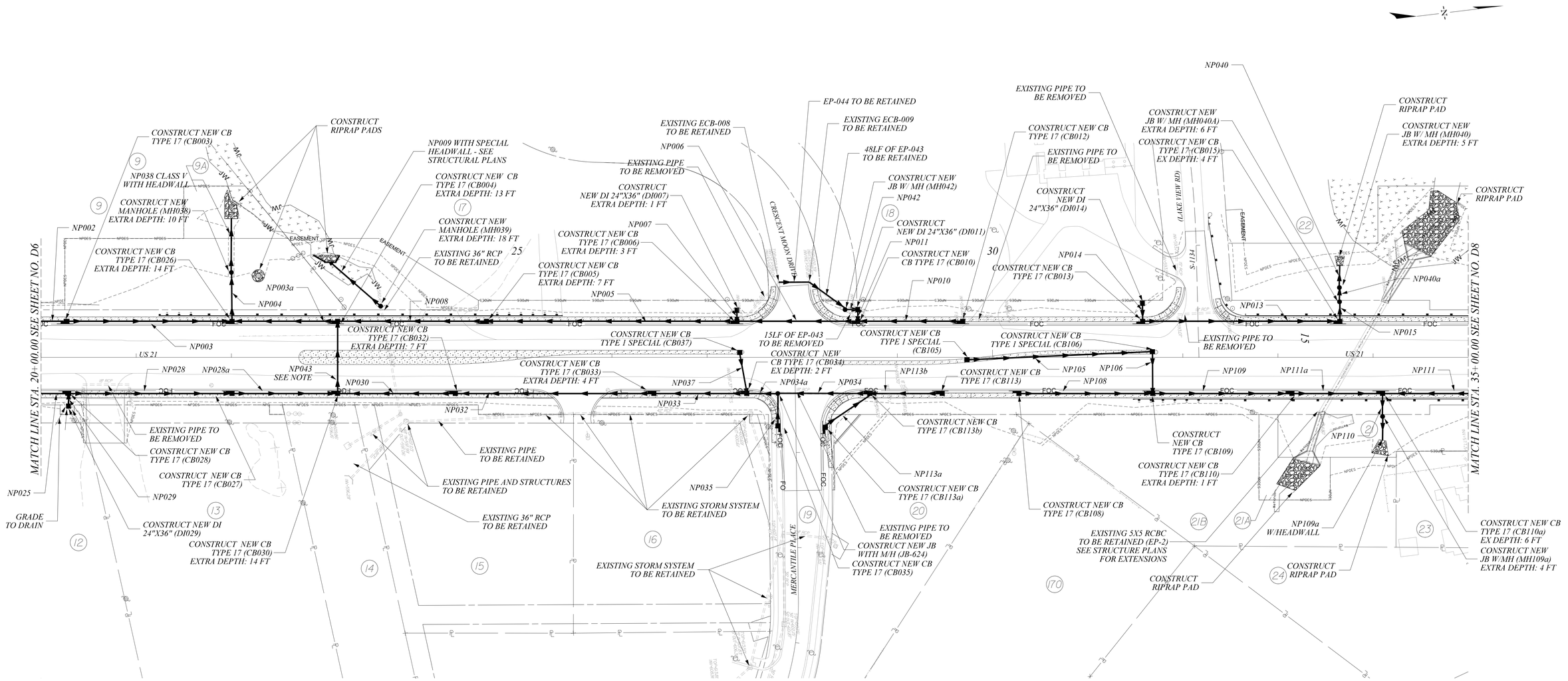
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	D7



GENERAL NOTES:
1. CLEAN OUT EXISTING BOX CULVERTS IF NEEDED, SCDOT PAY ITEM: 7013550
2. FOR NP-043, SEE TRAFFIC CONTROL SHEETS FOR DIRECTIONAL BORE INFORMATION.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA Registered Professional Engineer No. 21220 11/1/2023 HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 3

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	D7A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	EP-043	15	1	46.18	1.12	CB-009	EX.CATCH BSN	28+07.41	597.85	MH-042	M.H.	28+45.03	597.31	2.95	3.29	-	-	-	-	-	-	-	-
Closed	EP-044	15	1	32.23	0.16	CB-008	EX.CATCH BSN	27+75.18	597.92	CB-009	EX.CATCH BSN	28+07.41	597.87	3.21	3.27	-	-	-	-	-	-	-	-
Closed	NP-003	18	1	169.47	0.99	CB-003	C.B. TYPE 17	20+24.53	606.36	CB-026	C.B. TYPE 17	21+98.00	604.64	3.00	4.70	-	10	-	-	III	-	16ga	-
Closed	NP-003a	36	1	107.00	0.49	CB-004	C.B. TYPE 17	23+09.00	590.29	CB-026	C.B. TYPE 17	21+98.00	589.75	14.38	18.09	-	10	S	-	V	-	16ga	-
Closed	NP-004	36	1	47.45	8.64	CB-026	C.B. TYPE 17	21+98.00	589.68	MH-038	M.H.	22+00.00	585.25	3.05	18.16	-	10	-	-	V	-	16ga	-
Closed	NP-005	18	1	259.34	0.51	CB-006	C.B. TYPE 17	27+28.70	594.96	CB-005	C.B. TYPE 17	24+65.36	593.63	6.26	10.63	-	10	S	-	III	-	16ga	-
Closed	NP-006	18	1	123.09	0.51	CB-010	C.B. TYPE 17	28+55.79	595.61	CB-006	C.B. TYPE 17	27+28.70	594.96	4.10	6.26	-	10	S	-	III	-	16ga	-
Closed	NP-007	18	1	7.52	6.00	DI-007	D.I. 24"X36"	27+28.87	595.03	CB-006	C.B. TYPE 17	27+28.70	594.34	4.97	6.88	-	10	S	-	III	-	16ga	-
Closed	NP-008	18	1	152.36	1.19	CB-005	C.B. TYPE 17	24+65.36	593.64	CB-004	C.B. TYPE 17	23+09.00	591.78	10.62	14.39	7	10	S	-	III	-	16ga	-
Closed	NP-009	36	1	70.30	7.33	MH-039	M.H.	23+56.97	581.15	Outlet	HEADWALL	23+03.96	576.00	4.00	19.88	34	10	-	-	V	-	16ga	-
Closed	NP-010	18	1	106.22	0.52	CB-012	C.B. TYPE 17	29+66.01	596.18	CB-010	C.B. TYPE 17	28+55.79	595.61	2.17	4.10	-	10	-	-	III	-	16ga	-
Closed	NP-011	18	1	8.27	6.00	DI-011	D.I. 24"X36"	28+55.89	596.35	CB-010	C.B. TYPE 17	28+55.79	595.61	2.15	4.10	-	10	-	-	III	-	16ga	-
Closed	NP-013	24	1	203.21	3.22	CB-013	C.B. TYPE 17	31+55.14	592.53	CB-015	C.B. TYPE 17	33+62.35	585.86	3.00	7.12	8	10	-	-	III	-	16ga	-
Closed	NP-014	18	1	14.84	4.62	DI-014	D.I. 24"X36"	31+55.07	593.90	CB-013	C.B. TYPE 17	31+55.14	593.03	1.70	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-015	24	1	16.56	6.00	CB-015	C.B. TYPE 17	33+62.35	585.86	MH-040a	M.H.	33+64.74	584.64	3.00	7.12	8	10	-	-	III	-	16ga	-
Closed	NP-028	24	1	167.66	1.06	CB-028	C.B. TYPE 17	20+26.34	605.84	CB-027	C.B. TYPE 17	21+98.00	604.02	3.00	4.82	-	10	-	-	III	-	16ga	-
Closed	NP-028a	24	1	107.00	1.25	CB-027	C.B. TYPE 17	21+98.00	604.02	CB-030	C.B. TYPE 17	23+09.00	602.63	3.03	4.82	-	10	-	-	III	-	16ga	-
Closed	NP-029	18	1	9.14	3.50	DI-029	D.I. 24"X36"	20+26.31	606.80	CB-028	C.B. TYPE 17	20+26.34	606.34	1.70	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-030	18	1	119.75	0.40	CB-032	C.B. TYPE 17	24+32.75	593.57	CB-030	C.B. TYPE 17	23+09.00	593.07	11.07	13.09	-	10	S	-	III	-	16ga	-
Closed	NP-032	18	1	204.63	0.40	CB-033	C.B. TYPE 17	26+41.38	594.40	CB-032	C.B. TYPE 17	24+32.75	593.57	7.83	11.07	-	10	S	-	III	-	16ga	-
Closed	NP-033	18	1	93.64	0.40	CB-034	C.B. TYPE 17	27+39.01	594.79	CB-033	C.B. TYPE 17	26+41.38	594.40	6.31	7.83	-	10	S	-	III	-	16ga	-
Closed	NP-034	18	1	92.86	0.39	CB-113b	C.B. TYPE 17	28+68.31	595.31	JB-624	M.H.	27+74.30	594.93	4.24	6.47	14	10	S	-	III	-	16ga	-
Closed	NP-034a	18	1	28.80	0.43	JB-624	M.H.	27+74.30	594.93	CB-034	C.B. TYPE 17	27+39.01	594.79	6.31	6.47	-	10	S	-	III	-	16ga	-
Closed	NP-035	18	1	30.18	1.65	CB-035	C.B. TYPE 17	10+74.44	598.66	JB-624	M.H.	27+74.30	598.10	2.83	3.30	8	10	-	-	III	-	16ga	-
Closed	NP-037	18	1	39.70	0.43	CB-037	C.B. TYPE 1 SP	27+34.46	598.29	CB-034	C.B. TYPE 17	27+39.01	598.10	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-038	36	1	54.73	0.95	MH-038	M.H.	22+00.00	575.61	OP-39	HEADWALL	22+00.00	575.07	1.00	12.69	-	10	-	-	III	-	16ga	-
Closed	NP-040	24	1	21.22	6.00	MH-040	M.H.	33+64.60	571.61	OP-41	B.E.S.	33+64.94	570.23	1.00	8.56	-	10	-	-	III	-	16ga	-
Closed	NP-042	18	1	9.54	1.94	MH-042	M.H.	28+45.03	597.06	DI-011	D.I. 24"X36"	28+55.89	596.80	1.70	2.95	-	10	-	-	III	-	16ga	-
Closed	NP-043	36	1	72.00	0.46	CB-030	C.B. TYPE 17	23+09.00	590.95	CB-004	C.B. TYPE 17	23+09.00	590.60	13.71	14.07	9	10	S	-	III	-	16ga	-
Closed	NP-105	18	1	191.05	1.25	CB-105	C.B. TYPE 1 SP	29+73.25	595.45	CB-106	C.B. TYPE 1 SP	31+68.11	593.01	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-106	18	1	40.00	0.50	CB-106	C.B. TYPE 1 SP	31+68.11	593.01	CB-109	C.B. TYPE 17	31+65.69	592.79	3.00	3.11	-	10	-	-	III	-	16ga	-
Closed	NP-108	18	1	136.64	1.31	CB-108	C.B. TYPE 17	30+25.05	594.63	CB-109	C.B. TYPE 17	31+65.69	592.79	3.00	3.11	-	10	-	-	III	-	16ga	-
Closed	NP-109	18	1	142.34	2.19	CB-109	C.B. TYPE 17	31+65.69	592.79	CB-110	C.B. TYPE 17	33+12.03	589.59	3.11	4.51	-	10	-	-	III	-	16ga	-
Closed	NP-109a	30	1	23.39	6.00	MH-109a	M.H.	34+09.98	577.09	Outlet-12	HEADWALL	34+09.92	575.58	1.00	6.85	5	10	-	-	III	-	16ga	-
Closed	NP-110	30	1	20.33	7.00	CB-110a	C.B. TYPE 17	34+07.30	582.63	MH-109a	M.H.	34+09.98	580.94	3.00	9.30	5	10	-	-	III	-	16ga	-
Closed	NP-111	18	1	119.95	3.86	CB-111	C.B. TYPE 17	35+31.25	588.41	CB-110a	C.B. TYPE 17	34+07.30	583.63	3.00	9.30	6	10	-	-	III	-	16ga	-
Closed	NP-111a	18	1	91.27	6.25	CB-110	C.B. TYPE 17	33+12.03	589.59	CB-110a	C.B. TYPE 17	34+07.30	583.63	4.51	9.30	-	10	S	-	III	-	16ga	-
Closed	NP-113a	18	1	56.21	2.26	CB-113a	C.B. TYPE 17	10+76.57	598.41	CB-113b	C.B. TYPE 17	28+68.31	597.05	2.50	3.00	14	10	-	-	III	-	16ga	-
Closed	NP-113b	18	1	72.11	1.00	CB-113	C.B. TYPE 17	29+44.43	596.05	CB-113b	C.B. TYPE 17	28+68.31	595.29	2.57	4.26	14	10	-	-	III	-	16ga	-
Closed	NP-040a	24	1	11.35	6.00	MH-040a	M.H.	33+64.74	578.07	MH-040	M.H.	33+64.60	577.17	3.00	9.57	-	10	-	-	III	-	16ga	-
Closed	EP-2	60	1	135.00	1.50	-	5X5 RCBC	33+46.71	564.80	-	5X5 RCBC	34+12.85	562.74	0.00	0.00	-	10	-	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
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2			
1			

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 12/14/2023 MARY PARIS PETERS

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 4

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12/13/2023

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	D8

DITCH -LAKESHORE- LT FROM STA. 13+00 TO STA. 13+50

EXISTING PIPE TO BE RETAINED

CLP-8 WITH 2 B.E.S.

CONSTRUCT RIPRAP PAD

CONSTRUCT NEW CB TYPE 17 (CB214b) EXTRA DEPTH: 1 FT

CONSTRUCT NEW DI 24"X36" (DI221)

CONSTRUCT NEW CB TYPE 17 (CB203b)

CONSTRUCT NEW CB TYPE 17 (CB203a)

CONSTRUCT NEW CB TYPE 17 (CB241)

CONSTRUCT NEW CB TYPE 17 (CB241b)

CONSTRUCT NEW CB TYPE 17 (CB241a)

CONSTRUCT NEW CB TYPE 17 (CB205)

CONSTRUCT NEW CB TYPE 17 (CB205c)

CONSTRUCT NEW CB TYPE 17 (CB103)

CONSTRUCT NEW CB TYPE 17 (CB016)

CONSTRUCT NEW CB TYPE 17 (CB214a) EXTRA DEPTH: 2 FT

CONSTRUCT RIPRAP PADS

NP214 W/HEADWALL

S-1133 (LAKE SHORE DR.)

CONSTRUCT NEW MH (MH214) EXTRA DEPTH: 11 FT

CONSTRUCT NEW CB TYPE 17 (CB017)

NP214a

CONSTRUCT NEW CB TYPE 18 (CB018) EX DEPTH: 5 FT

NP018

CONSTRUCT NEW CB TYPE 17 (CB213) EX DEPTH: 1 FT

CONSTRUCT NEW CB TYPE 17 (CB203)

NP221

NP-213

NP203

NP203a

NP241

NP205

NP214b

NP016

NP017

CONSTRUCT NEW CB TYPE 18 (CB019) EX DEPTH: 3 FT

NP019

EXISTING 5X5 RCBC TO BE RETAINED EP-3

NP221a REMOVE EXISTING

COORDINATE CURB LIMITS WITH NEW TYPE 16 CB

NP203b

NP241b

NP241a

NP205c

NP205b

CONSTRUCT NEW CB TYPE 17 (CB111)

NP103

EXISTING PIPE TO BE REMOVED

NP200a

CONSTRUCT NEW CB TYPE 17 (CB201) EXTRA DEPTH: 5 FT

NP201

CONSTRUCT NEW CB TYPE 16 (CB221a) EXTRA DEPTH: 2 FT

NP202

CONSTRUCT NEW CB TYPE 17 (CB202) EXTRA DEPTH: 4 FT

NP204a

CONSTRUCT NEW CB TYPE 17 (CB204a)

NP204

MATCH LINE STA. 35+00.00 SEE SHEET NO. D7

MATCH LINE STA. 50+00.00 SEE SHEET NO. D9

NP111

NP200

NP200b

CONSTRUCT NEW CB TYPE 17 (CB212) EX DEPTH: 7 FT

NP212

NP216

CONSTRUCT NEW CB TYPE 17 (CB216)

CONSTRUCT NEW CB TYPE 17 (CB204)

EXISTING SYSTEMS TO BE RETAINED

NP206

S-1467 (AMELIA DRIVE)

EXISTING PIPES TO BE REMOVED

CONSTRUCT NEW JB W/ MH (MH212a) EXTRA DEPTH: 11 FT

NP212a

CONSTRUCT RIPRAP PAD

CULVERT EXTENSIONS SEE STRUCTURE PLANS

CONSTRUCT RIPRAP PADS

S-1469 (FERN FOREST CT.)

S-147 (FLUORESTDR.)

DITCH -EXIST. FOREST- LT FROM STA. 11+69 TO STA. 12+32

TIE TO EXIST. DITCH

EXISTING SYSTEM TO TO BE RETAINED

EXISTING PIPES TO BE RETAINED

DITCH -AMELIA- LT FROM STA. 11+00 TO STA. 11+96

EXISTING PIPES TO BE RETAINED

CONSTRUCT NEW CB TYPE 17 (CB200a) EXTRA DEPTH: 4 FT

CONSTRUCT NEW CB TYPE 17 (CB200) EXTRA DEPTH: 4 FT

CONSTRUCT 24" PIPE DRWY-11 EXISTING PIPE TO BE REMOVED

DITCH -FERNFOREST- RT FROM STA. 10+50 TO STA. 11+00

EXISTING PIPES TO BE RATAINED

CONSTRUCT NEW DI 24"X36" (DI100)

50 0 50 100
scale feet

GENERAL NOTES:
1. CLEAN OUT EXISTING BOX CULVERTS IF NEEDED, SCDOT PAY ITEM: 7013550

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — 1/4/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 5

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1/10/2023

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	D8A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-016	18	1	193.99	1.23	CB-016	C.B. TYPE 17	35+90.89	587.67	CB-017	C.B. TYPE 17	37+88.88	585.24	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-017	18	1	157.40	1.10	CB-017	C.B. TYPE 17	37+88.88	585.24	CB-018	C.B. TYPE 17	39+50.28	583.46	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-018	30	1	58.01	1.50	CB-019	C.B. TYPE 18	40+14.96	579.53	CB-018	C.B. TYPE 17	39+50.28	578.60	5.73	6.86	4	10	S	-	III	-	16ga	-
Closed	NP-019	30	1	73.22	1.50	CB-214a	C.B. TYPE 17	40+94.84	580.69	CB-019	C.B. TYPE 18	40+14.96	579.53	4.87	5.73	4	10	S	-	III	-	16ga	-
Closed	NP-103	18	1	212.84	2.98	CB-103	C.B. TYPE 17	36+63.16	586.78	CB-200a	C.B. TYPE 17	38+80.00	580.31	3.00	6.81	5	10	-	-	III	-	16ga	-
Closed	NP-200	24	1	88.37	0.44	CB-200	C.B. TYPE 18	40+14.96	579.41	CB-201	C.B. TYPE 17	41+10.00	579.00	6.35	7.28	-	10	S	-	III	-	16ga	-
Closed	NP-200a	24	1	128.29	0.31	CB-200a	C.B. TYPE 17	38+80.00	579.82	CB-200	C.B. TYPE 18	40+14.96	579.41	6.35	6.80	5	10	S	-	III	-	16ga	-
Closed	NP-200b	24	1	17.05	0.44	DI-100	D.I. 24"X36"	38+80.33	579.40	CB-200a	C.B. TYPE 17	38+80.00	579.32	3.67	7.30	5	10	-	-	III	-	16ga	-
Closed	NP-201	24	1	58.25	0.96	CB-201	C.B. TYPE 17	41+10.00	575.58	Outlet-1	B.E.S.	41+50.00	575.00	1.00	10.70	-	10	-	-	III	-	16ga	-
Closed	NP-202	18	1	237.85	3.94	CB-202	C.B. TYPE 17	45+00.00	588.14	CB-212	C.B. TYPE 17	42+58.15	578.60	7.62	10.45	10	10	S	-	III	-	16ga	-
Closed	NP-203	24	1	122.28	4.19	CB-203	C.B. TYPE 17	45+00.00	592.26	CB-213	C.B. TYPE 17	43+73.72	586.97	3.00	4.49	-	10	-	-	III	-	16ga	-
Closed	NP-203a	24	1	57.27	2.84	CB-203a	C.B. TYPE 17	46+20.99	595.69	CB-203b	C.B. TYPE 17	45+59.72	593.95	3.00	3.00	10	10	-	-	III	-	16ga	-
Closed	NP-203b	24	1	55.72	2.83	CB-203b	C.B. TYPE 17	45+59.72	593.95	CB-203	C.B. TYPE 17	45+00.00	592.26	3.00	3.00	10	10	-	-	III	-	16ga	-
Closed	NP-204	18	1	163.13	2.75	CB-204	C.B. TYPE 17	49+90.97	606.53	CB-204a	C.B. TYPE 17	48+23.84	601.94	3.00	3.15	-	10	-	-	III	-	16ga	-
Closed	NP-204a	18	1	177.48	2.83	CB-204a	C.B. TYPE 17	48+23.84	601.94	CB-216	C.B. TYPE 17	46+42.36	596.80	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-205	24	1	72.06	2.83	CB-205	C.B. TYPE 17	49+00.00	603.60	CB-241a	C.B. TYPE 17	48+23.94	601.45	3.00	3.00	24	10	-	-	III	-	16ga	-
Closed	NP-205a	24	1	59.95	2.83	CB-205a	C.B. TYPE 17	51+00.00	609.27	CB-205b	C.B. TYPE 17	50+36.05	607.46	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-205b	24	1	63.35	2.84	CB-205b	C.B. TYPE 17	50+36.05	607.46	CB-205c	C.B. TYPE 17	49+68.70	605.55	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-205c	24	1	64.70	2.84	CB-205c	C.B. TYPE 17	49+68.70	605.55	CB-205	C.B. TYPE 17	49+00.00	603.60	3.00	3.00	9	10	-	-	III	-	16ga	-
Closed	NP-212	18	1	31.13	4.26	CB-212	C.B. TYPE 17	42+58.15	578.48	MH-212a	M.H.	42+75.00	576.99	7.23	10.57	6	10	S	-	III	-	16ga	-
Closed	NP-212a	18	1	41.93	0.48	MH-212a	M.H.	42+75.00	568.71	Outlet-2	B.E.S.	42+75.00	568.50	1.00	15.51	-	10	-	-	III	-	16ga	-
Closed	NP-213	24	1	51.66	6.59	CB-213	C.B. TYPE 17	43+73.72	586.97	CB-221a	C.B. TYPE 16	43+16.75	583.30	4.49	5.21	-	10	S	-	III	-	16ga	-
Closed	NP-214	30	1	31.27	0.45	MH-214	M.H.	39+50.00	566.52	Outlet-3	HEADWALL	39+50.00	566.37	1.00	13.90	-	10	-	-	III	-	16ga	-
Closed	NP-214a	30	1	16.21	4.84	CB-018	C.B. TYPE 17	39+50.28	576.89	MH-214	M.H.	39+50.00	575.92	4.50	8.57	-	10	S	-	III	-	16ga	-
Closed	NP-214b	30	1	81.64	1.65	CB-214b	C.B. TYPE 17	41+80.48	582.10	CB-214a	C.B. TYPE 17	40+94.84	580.69	4.45	4.87	7	10	-	-	III	-	16ga	-
Closed	NP-216	18	1	138.36	6.08	CB-216	C.B. TYPE 17	46+42.36	596.80	CB-202	C.B. TYPE 17	45+00.00	588.14	3.00	7.62	-	10	-	-	III	-	16ga	-
Closed	NP-221	18	1	10.65	1.35	DI-221	D.I. 24"X36"	43+25.00	584.00	CB-221a	C.B. TYPE 16	43+16.75	583.80	3.00	5.21	-	10	-	-	III	-	16ga	-
Closed	NP-221a	30	1	138.73	0.49	CB-221a	C.B. TYPE 16	43+16.75	582.80	CB-214b	C.B. TYPE 17	41+80.48	582.10	4.45	5.21	-	10	-	-	III	-	16ga	-
Closed	NP-241	24	1	73.67	2.83	CB-241	C.B. TYPE 17	46+98.66	597.89	CB-203a	C.B. TYPE 17	46+20.99	595.69	3.00	3.00	7	10	-	-	III	-	16ga	-
Closed	NP-241a	24	1	64.21	2.84	CB-241a	C.B. TYPE 17	48+23.94	601.45	CB-241b	C.B. TYPE 17	47+55.73	599.51	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-241b	24	1	53.07	2.84	CB-241b	C.B. TYPE 17	47+55.73	599.51	CB-241	C.B. TYPE 17	46+98.66	597.89	3.00	3.00	7	10	-	-	III	-	16ga	-
Open	EP-3	60	1	137.00	0.96	-	5X5 RCBC	41+50.93	567.39	-	5X5 RCBC	40+58.68	566.08	-	-	-	-		-	-	-	-	-
Open	CLP-8	18	1	65.00	2.82	-	B.E.S.	13+00.00	583.83	-	B.E.S.	12+74.40	582.00	1.40	1.60	17	10	-	-	III	-	16ga	-
Open	DRWY-11	24	1	22.00	0.50	-	DRIVEWAY PIPE	1094.90	585.17	-	DRIVEWAY PIPE	1075.77	585.06	1.00	1.00	-	10	-	-	IV	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

REGISTERED SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 11/1/2023 — HOLLY PARIS PETERS

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 6

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1/0/2023

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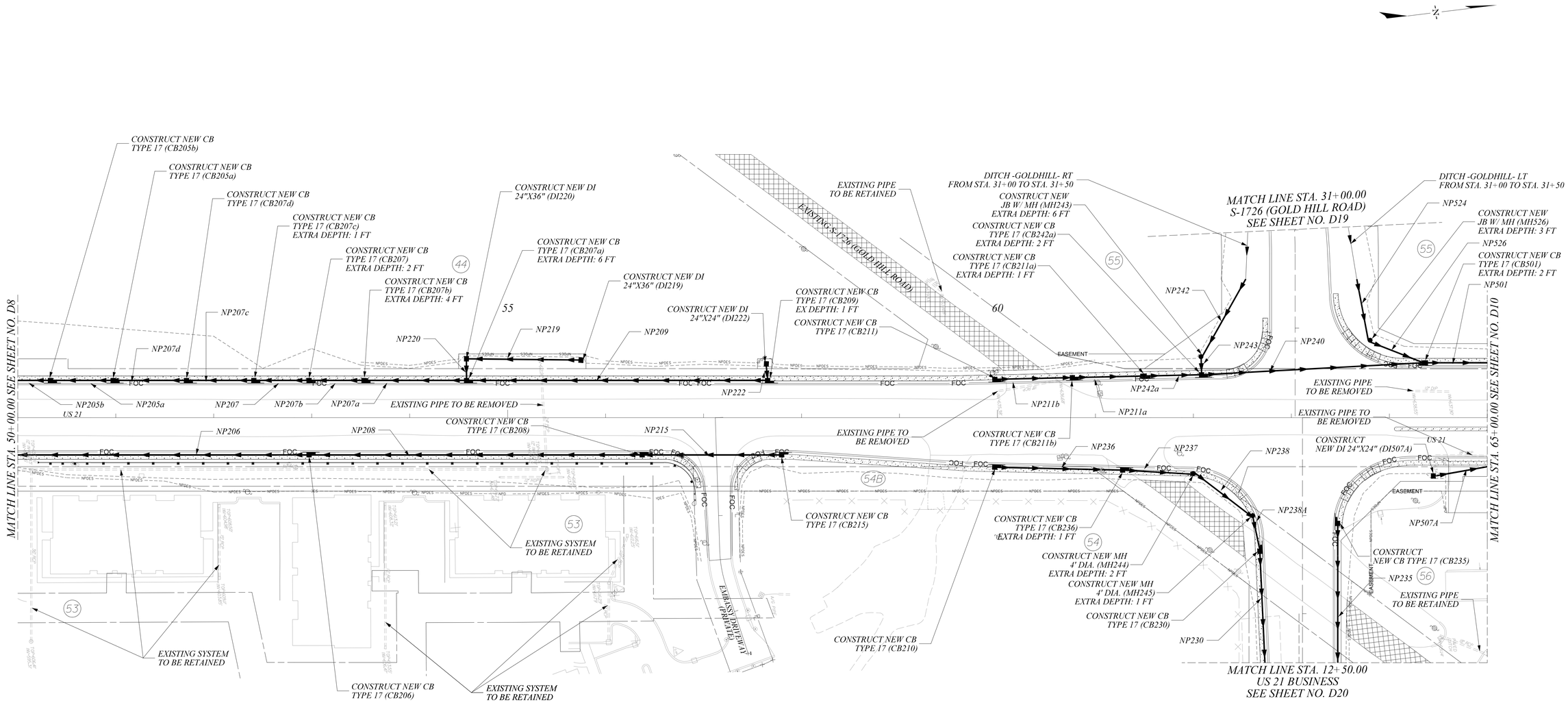
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	D9



50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 1/11/2023 PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
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1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 7

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	D9A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-207	24	1	52.39	0.54	CB-207	C.B. TYPE 17	53+00.00	612.17	CB-207c	C.B. TYPE 17	52+43.61	611.87	4.48	5.77	7	10	S	-	III	-	16ga	-
Closed	NP-205a	24	1	59.95	2.83	CB-205a	C.B. TYPE 17	51+00.00	609.27	CB-205b	C.B. TYPE 17	50+36.05	607.46	3.00	3.00	5	10	-	-	III	-	16ga	-
Closed	NP-206	18	1	305.03	2.83	CB-206	C.B. TYPE 17	53+00.00	615.28	CB-204	C.B. TYPE 17	49+90.97	606.53	3.15	3.17	-	10	-	-	III	-	16ga	-
Closed	NP-207a	24	1	100.66	0.31	CB-207a	C.B. TYPE 17	54+60.75	612.67	CB-207b	C.B. TYPE 17	53+56.08	612.35	7.19	9.83	-	10	S	-	III	-	16ga	-
Closed	NP-207b	24	1	52.08	0.32	CB-207b	C.B. TYPE 17	53+56.08	612.35	CB-207	C.B. TYPE 17	53+00.00	612.17	5.77	7.19	7	10	S	-	III	-	16ga	-
Closed	NP-207c	24	1	64.80	0.68	CB-207c	C.B. TYPE 17	52+43.61	611.87	CB-207d	C.B. TYPE 17	51+74.81	611.40	3.00	4.48	-	10	-	-	III	-	16ga	-
Closed	NP-207d	24	1	70.81	2.85	CB-207d	C.B. TYPE 17	51+74.81	611.40	CB-205a	C.B. TYPE 17	51+00.00	609.27	3.00	3.00	6	10	-	-	III	-	16ga	-
Closed	NP-208	18	1	336.00	2.83	CB-208	C.B. TYPE 17	56+40.00	624.90	CB-206	C.B. TYPE 17	53+00.00	615.28	3.17	3.19	-	10	-	-	III	-	16ga	-
Closed	NP-209	18	1	303.25	4.21	CB-209	C.B. TYPE 17	57+68.00	626.10	CB-207a	C.B. TYPE 17	54+60.75	613.17	4.62	9.83	-	10	S	-	III	-	16ga	-
Closed	NP-211a	18	1	69.27	0.48	CB-211b	C.B. TYPE 17	60+79.19	634.86	CB-211a	C.B. TYPE 17	61+52.44	634.51	4.16	5.29	-	10	S	-	III	-	16ga	-
Closed	NP-211b	18	1	75.14	0.49	CB-211	C.B. TYPE 17	60+00.07	635.25	CB-211b	C.B. TYPE 17	60+79.19	634.86	2.50	4.16	-	10	-	-	III	-	16ga	-
Closed	NP-215	18	1	138.29	2.83	CB-215	C.B. TYPE 17	57+82.29	628.92	CB-208	C.B. TYPE 17	56+40.00	624.90	3.19	3.20	-	10	-	-	III	-	16ga	-
Closed	NP-219	18	1	112.96	2.67	DI-219	D.I. 24"X36"	55+72.42	616.36	DI-220	D.I. 24"X36"	54+55.47	613.24	1.70	1.70	-	10	-	-	III	-	16ga	-
Closed	NP-220	18	1	18.04	0.30	DI-220	D.I. 24"X36"	54+55.47	613.24	CB-207a	C.B. TYPE 17	54+60.75	613.17	1.70	9.83	-	10	-	-	III	-	16ga	-
Closed	NP-222	18	1	12.92	1.00	DI-222	D.I. 24"X24"	57+61.61	626.27	CB-209	C.B. TYPE 17	57+68.00	626.10	3.00	4.62	-	10	-	-	III	-	16ga	-
Closed	NP-230	18	1	144.59	0.50	CB-230	C.B. TYPE 17	11+33.55	633.35	CB-229	C.B. TYPE 17	12+81.99	632.61	2.47	4.04	13	10	-	-	III	-	16ga	-
Closed	NP-235	18	1	172.87	1.59	CB-235	C.B. TYPE 17	11+05.26	635.62	CB-234	C.B. TYPE 17	12+82.12	632.81	2.58	2.58	13	10	-	-	III	-	16ga	-
Closed	NP-236	18	1	126.58	0.51	CB-210	C.B. TYPE 17	59+99.98	634.92	CB-236	C.B. TYPE 17	61+30.53	634.26	2.50	5.03	-	10	-	-	III	-	16ga	-
Closed	NP-237	18	1	68.57	0.52	CB-236	C.B. TYPE 17	61+30.53	634.26	MH-244	M.H.	62+00.00	633.88	5.03	6.10	-	10	S	-	III	-	16ga	-
Closed	NP-238	18	1	71.76	0.46	MH-244	M.H.	62+00.00	633.88	MH-245	M.H.	11+00.00	633.53	4.86	6.10	-	10	S	-	III	-	16ga	-
Closed	NP-238a	18	1	33.26	0.49	MH-245	M.H.	11+00.00	633.53	CB-230	C.B. TYPE 17	11+33.55	633.35	4.04	4.86	-	10	S	-	III	-	16ga	-
Closed	NP-240	18	1	224.81	0.50	CB-242a	C.B. TYPE 17	62+11.09	634.21	CB-501	C.B. TYPE 17	64+34.17	633.07	5.77	5.92	15	10	S	-	III	-	16ga	-
Closed	NP-242	18	1	92.83	0.49	OEP-242	B.E.S.	62+53.40	635.18	MH-243	M.H.	62+07.70	634.72	1.00	1.00	-	10	-	-	V	-	16ga	-
Closed	NP-242a	18	1	54.66	0.51	CB-211a	C.B. TYPE 17	61+52.44	634.51	CB-242a	C.B. TYPE 17	62+11.09	634.21	5.29	5.92	-	10	S	-	III	-	16ga	-
Closed	NP-243	18	1	14.63	0.50	MH-243	M.H.	62+07.70	634.72	CB-242a	C.B. TYPE 17	62+11.09	634.63	5.50	10.22	-	10	S	-	III	-	16ga	-
Closed	NP-501	18	1	105.39	0.98	CB-501	C.B. TYPE 17	64+34.17	633.07	CB-501a	C.B. TYPE 17	65+43.56	632.00	5.43	5.77	7	10	S	-	III	-	16ga	-
Closed	NP-507a	18	1	88.73	0.52	DI-507A	D.I. 24"X24"	64+42.38	634.87	CB-507	C.B. TYPE 17	65+33.59	634.39	1.50	3.51	-	10	-	-	III	-	16ga	-
Closed	NP-524	18	1	63.65	0.52	OEP-524	B.E.S.	63+66.77	637.22	MH-526	M.H.	63+80.35	636.88	1.00	7.12	-	10	-	-	III	-	16ga	-
Closed	NP-526	18	1	58.25	5.58	MH-526	M.H.	63+80.35	636.88	CB-501	C.B. TYPE 17	64+34.17	633.41	5.43	7.12	-	10	S	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

Docusigned by: PARIS PETERS — SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 21220 — 1/4/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 8

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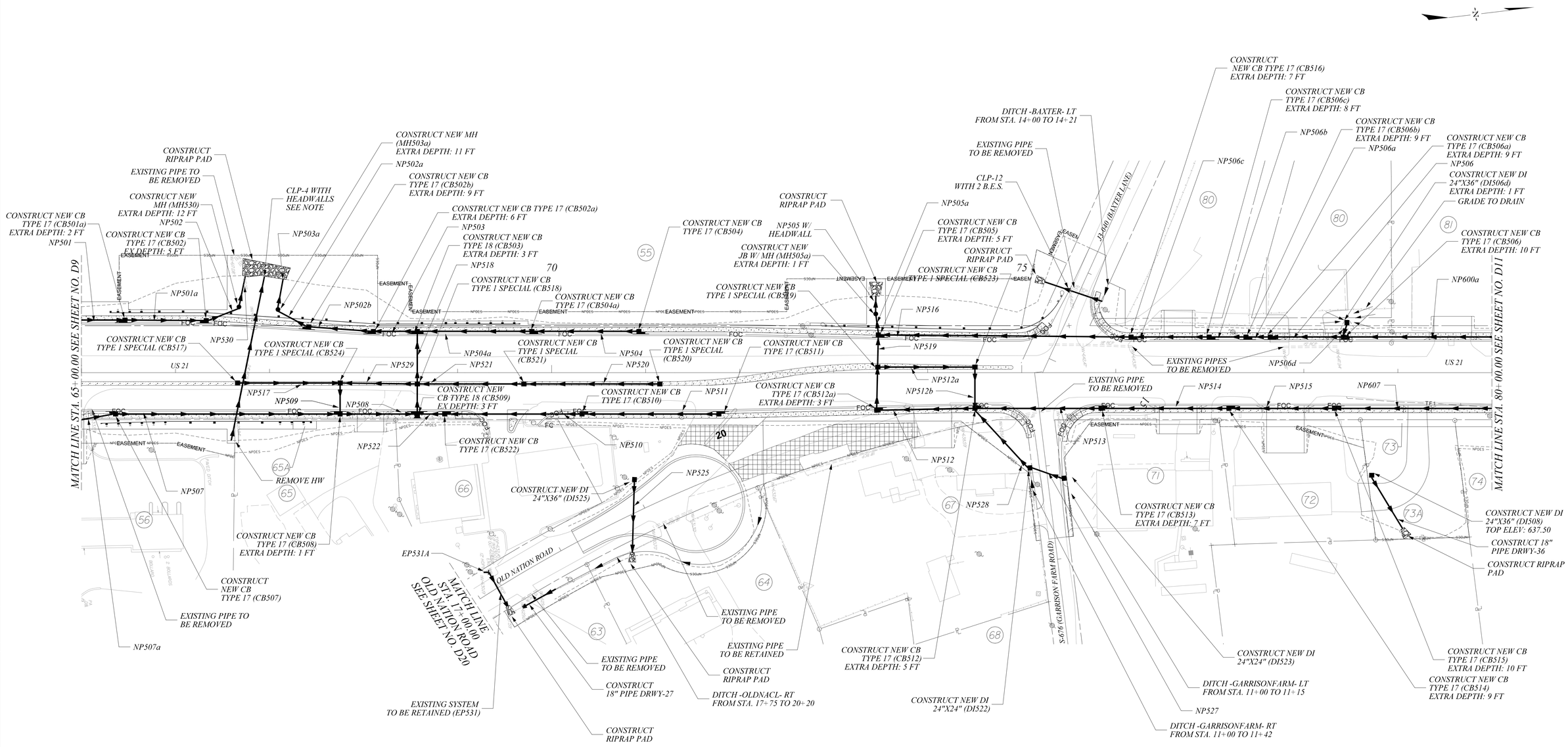
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	D10



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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3	SCN	2/10/2021	REVISED DRIVEWAY TR 66 AND CONC. MEDIAN
2	SCN	9/18/2020	TR 72/73: ADDED DRIVEWAY PIPE AND DI 24"X36"
1	JMB	7/23/2020	REMOVED YARD INLET FROM TR. 66
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

GENERAL NOTES:
1. FOR CLP-4, SEE TRAFFIC CONTROL SHEETS FOR DIRECTIONAL BORE INFORMATION.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 11/14/2023 HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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4			
3	SCN	2/10/21	REVISED DRIVEWAY TR 66 AND CONC. MEDIAN
2	SCN	9/18/20	TR 72/73: ADDED DRIVEWAY PIPE AND DI 24"X36"
1	JMB	7/16/20	TR 66: REMOVED YARD INLET. REVISED CB TYPE 18.

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 9

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Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-527	18	1	34.33	0.37	DI-523	D.I. 24"X24"	11+15.21	640.04	DI-522	D.I. 24"X24"	10+99.77	639.90	1.88	1.98	-	10	-	-	III	-	16ga	-
Closed	NP-528	18	1	83.38	4.85	DI-522	D.I. 24"X24"	10+99.77	639.90	CB-512	C.B. TYPE 17	74+52.95	635.66	1.98	7.39	-	10	-	-	III	-	16ga	-
Closed	NP-502	24	1	34.82	6.21	CB-502	C.B. TYPE 17	66+30.00	627.45	MH-530	M.H.	66+67.50	625.05	7.95	8.43	4	10	S	-	III	-	16ga	-
Closed	NP-501a	24	1	82.45	4.86	CB-501a	C.B. TYPE 17	65+43.56	631.50	CB-502	C.B. TYPE 17	66+30.00	627.30	5.43	8.58	-	10	S	-	III	-	16ga	-
Closed	NP-502a	24	1	34.71	1.76	CB-502b	C.B. TYPE 17	67+38.95	622.37	MH-503a	M.H.	67+09.01	621.69	11.06	12.63	-	10	S	-	III	-	16ga	-
Closed	NP-502b	24	1	64.83	4.88	CB-502a	C.B. TYPE 17	68+07.79	625.73	CB-502b	C.B. TYPE 17	67+38.95	622.37	9.07	12.63	-	10	S	-	III	-	16ga	-
Closed	NP-503	24	1	42.71	5.29	CB-503	C.B. TYPE 18	68+57.16	628.20	CB-502a	C.B. TYPE 17	68+07.79	625.73	6.53	9.07	-	10	S	-	III	-	16ga	-
Closed	NP-503a	24	1	31.19	1.57	MH-503a	M.H.	67+09.01	617.95	Outlet-4a	B.E.S.	67+14.45	617.43	1.00	14.80	-	10	-	-	III	-	16ga	-
Closed	NP-504	18	1	109.84	1.01	CB-504	C.B. TYPE 17	70+95.56	633.81	CB-504a	C.B. TYPE 17	69+81.72	632.66	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-504a	18	1	117.89	1.61	CB-504a	C.B. TYPE 17	69+81.72	632.66	CB-503	C.B. TYPE 18	68+57.16	630.70	3.00	4.53	-	10	-	-	III	-	16ga	-
Closed	NP-505	30	1	17.02	8.00	MH-505a	M.H.	73+44.77	628.91	Outlet-4b	HEADWALL	73+44.85	627.40	1.00	4.10	-	10	-	-	III	-	16ga	-
Closed	NP-505a	30	1	18.54	8.00	CB-505	C.B. TYPE 17	73+50.05	631.80	MH-505a	M.H.	73+44.77	630.01	3.00	8.39	13	10	-	-	III	-	16ga	-
Closed	NP-506	30	1	73.66	0.32	CB-506	C.B. TYPE 17	78+44.69	635.39	CB-506a	C.B. TYPE 17	77+67.03	635.15	12.35	13.03	-	10	S	-	III	-	16ga	-
Closed	NP-506a	30	1	21.87	0.35	CB-506a	C.B. TYPE 17	77+67.03	635.15	CB-506b	C.B. TYPE 17	77+41.16	635.06	12.05	12.35	-	10	S	-	III	-	16ga	-
Closed	NP-506b	30	1	35.16	0.33	CB-506b	C.B. TYPE 17	77+41.16	635.06	CB-506c	C.B. TYPE 17	77+02.00	634.93	10.98	12.05	-	10	S	-	III	-	16ga	-
Closed	NP-506c	30	1	79.06	0.32	CB-506c	C.B. TYPE 17	77+02.00	634.93	CB-516	C.B. TYPE 17	76+18.94	634.67	10.31	10.98	-	10	S	-	III	-	16ga	-
Closed	NP-506d	18	1	11.95	6.00	DI-506d	D.I. 24"X36"	78+43.32	637.35	CB-506	C.B. TYPE 17	78+44.69	636.39	5.08	13.03	-	10	S	-	III	-	16ga	-
Closed	NP-507	18	1	234.86	0.82	CB-507	C.B. TYPE 17	65+33.59	634.39	CB-508	C.B. TYPE 17	67+72.45	632.43	3.00	3.51	-	10	-	-	III	-	16ga	-
Closed	NP-508	24	1	77.99	0.98	CB-508	C.B. TYPE 17	67+72.45	629.38	CB-509	C.B. TYPE 18	68+57.11	628.58	5.55	6.15	7	10	S	-	III	-	16ga	-
Closed	NP-509	18	1	29.00	0.45	CB-524	C.B. TYPE 1SP	67+75.12	631.91	CB-508	C.B. TYPE 17	67+72.45	631.76	3.67	3.74	9	10	S	-	III	-	16ga	-
Closed	NP-510	18	1	142.00	0.68	CB-510	C.B. TYPE 17	70+35.00	632.50	CB-522	C.B. TYPE 17	68+89.00	631.50	3.11	3.76	-	10	-	-	III	-	16ga	-
Closed	NP-511	18	1	141.59	1.03	CB-511	C.B. TYPE 17	71+80.59	634.00	CB-510	C.B. TYPE 17	70+35.00	632.50	3.11	4.13	-	10	-	-	III	-	16ga	-
Closed	NP-512	30	1	100.52	0.77	CB-512	C.B. TYPE 17	74+52.95	633.75	CB-512a	C.B. TYPE 17	73+48.38	632.94	7.23	8.30	-	10	S	-	III	-	16ga	-
Closed	NP-512a	18	1	99.38	0.48	CB-519	C.B. TYPE 1SP	73+46.91	639.00	CB-523	C.B. TYPE 1SP	74+50.28	638.50	2.40	4.73	8	10	-	-	III	-	16ga	-
Closed	NP-512b	18	1	40.00	0.68	CB-523	C.B. TYPE 1SP	74+50.28	638.50	CB-512	C.B. TYPE 17	74+52.95	638.20	4.73	4.85	-	10	S	-	III	-	16ga	-
Closed	NP-513	24	1	130.05	0.31	CB-513	C.B. TYPE 17	75+87.00	634.67	CB-512	C.B. TYPE 17	74+52.95	634.25	8.30	10.25	-	10	S	-	III	-	16ga	-
Closed	NP-514	24	1	131.98	0.32	CB-514	C.B. TYPE 17	77+22.99	635.10	CB-513	C.B. TYPE 17	75+87.00	634.67	10.25	12.21	-	10	S	-	III	-	16ga	-
Closed	NP-515	24	1	108.30	0.31	CB-515	C.B. TYPE 17	78+35.29	635.45	CB-514	C.B. TYPE 17	77+22.99	635.10	12.21	13.38	7	10	S	-	III	-	16ga	-
Closed	NP-516	30	1	264.83	1.07	CB-516	C.B. TYPE 17	76+18.94	634.67	CB-505	C.B. TYPE 17	73+50.05	631.80	8.39	10.31	8	10	S	-	III	-	16ga	-
Closed	NP-517	18	1	105.03	0.74	CB-517	C.B. TYPE 1SP	66+66.09	633.96	CB-524	C.B. TYPE 1SP	67+75.12	633.15	2.50	2.52	-	10	-	-	III	-	16ga	-
Closed	NP-518	24	1	84.00	0.91	CB-509	C.B. TYPE 18	68+57.11	629.00	CB-503	C.B. TYPE 18	68+57.16	628.20	5.73	6.53	7	10	S	-	III	-	16ga	-
Closed	NP-519	30	1	76.36	1.42	CB-512a	C.B. TYPE 17	73+48.38	632.94	CB-505	C.B. TYPE 17	73+50.05	631.80	7.23	8.39	8	10	S	-	III	-	16ga	-
Closed	NP-520	18	1	140.60	1.20	CB-520	C.B. TYPE 1SP	71+15.09	634.59	CB-521	C.B. TYPE 1SP	69+70.49	632.85	2.25	2.50	-	10	-	-	III	-	16ga	-
Closed	NP-521	18	1	109.30	0.49	CB-521	C.B. TYPE 1SP	69+70.49	632.85	CB-518	C.B. TYPE 1SP	68+57.21	632.30	2.25	3.15	7	10	-	-	III	-	16ga	-
Closed	NP-522	24	1	25.22	1.71	CB-522	C.B. TYPE 17	68+89.00	631.00	CB-509	C.B. TYPE 18	68+57.11	630.50	3.76	4.23	7	10	-	-	III	-	16ga	-
Closed	NP-529	18	1	78.09	0.48	CB-518	C.B. TYPE 1SP	68+57.21	632.30	CB-524	C.B. TYPE 1SP	67+75.12	631.91	3.15	3.74	5	10	-	-	III	-	16ga	-
Closed	NP-530	24	1	31.50	0.92	MH-530	M.H.	66+67.50	617.31	Outlet-4	B.E.S.	66+74.23	617.00	1.00	15.69	-	10	-	-	III	-	16ga	-
Closed	NP-600a	24	1	195.65	0.31	CB-600a	C.B. TYPE 17	80+39.01	636.50	CB-506	C.B. TYPE 17	78+44.69	635.89	13.03	13.17	-	10	S	-	III	-	16ga	-
Closed	NP-607	24	1	352.99	0.31	CB-607	C.B. TYPE 17	81+86.94	636.55	CB-515	C.B. TYPE 17	78+35.29	635.45	12.17	13.38	7	10	S	-	III	-	16ga	-
Closed	EP-531a	18	1	41.19	2.28	EDI-531A	EXISTING D.I.	17+22.80	628.53	EXOP-532	B.E.S.	17+20.56	627.59	-	-	-	-		-	-	-	-	-
Closed	EP-531	12	1	5.71	2.80	EXIP-531	B.E.S.	17+18.02	630.19	EDI-531A	EXISTING D.I.	17+22.80	630.03	-	-	-	-		-	-	-	-	-
Closed	NP-525	18	1	75.80	1.03	DI-525	D.I. 24"X36"	19+00.80	630.70	outlet-20	B.E.S.	18+67.18	629.90	1.00	2.30	-	10	-	-	III	-	16ga	-
Open	CLP-4	36	1	178.00	2.93	DI-525	HEADWALL	66+59.31	621.83	-	HEADWALL	66+94.56	616.61	13.25	15.74	7	10	S	-	III	-	16ga	-
Open	CLP-12	18	1	65.00	1.90	-	B.E.S.	14+21.21	640.86	-	B.E.S.	14+27.70	639.60	1.90	2.60	41	10	-	-	III	-	16ga	-
Open	DRWY-27	18	1	41.00	1.63	-	DRIVEWAY PIPE	17+75.00	628.60	-	DRIVEWAY PIPE	17+33.79	627.93	0.45	1.11	-	10	-	-	IV	-	16ga	-
Open	DRWY-36	18	1	64.00	0.80	-	D.I. 24"X36"	78+72.19	634.50	-	DRIVEWAY PIPE	79+04.96	634.00	1.00	1.00	-	10	-	-	IV	-	16ga	-

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 21220 GUY PARIS PETERS 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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3	SCN	2/10/21	REVISED DRIVEWAY TR 66 AND CONC. MEDIAN
2	SCN	9/18/20	TR 72/73: ADDED DRIVEWAY PIPE AND DI 24"X36"
1	JMB	7/16/20	TR 66: REMOVED YARD INLET. REVISED CB TYPE 18.

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 10

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3	SCN	2/10/21	REVISED DRIVEWAY TR 66 AND CONC. MEDIAN
2	SCN	9/18/20	TR 72/73: ADDED DRIVEWAY PIPE AND DI 24"X36"
1	JMB	7/16/20	TR 66: REMOVED YARD INLET. REVISED CB TYP 18.
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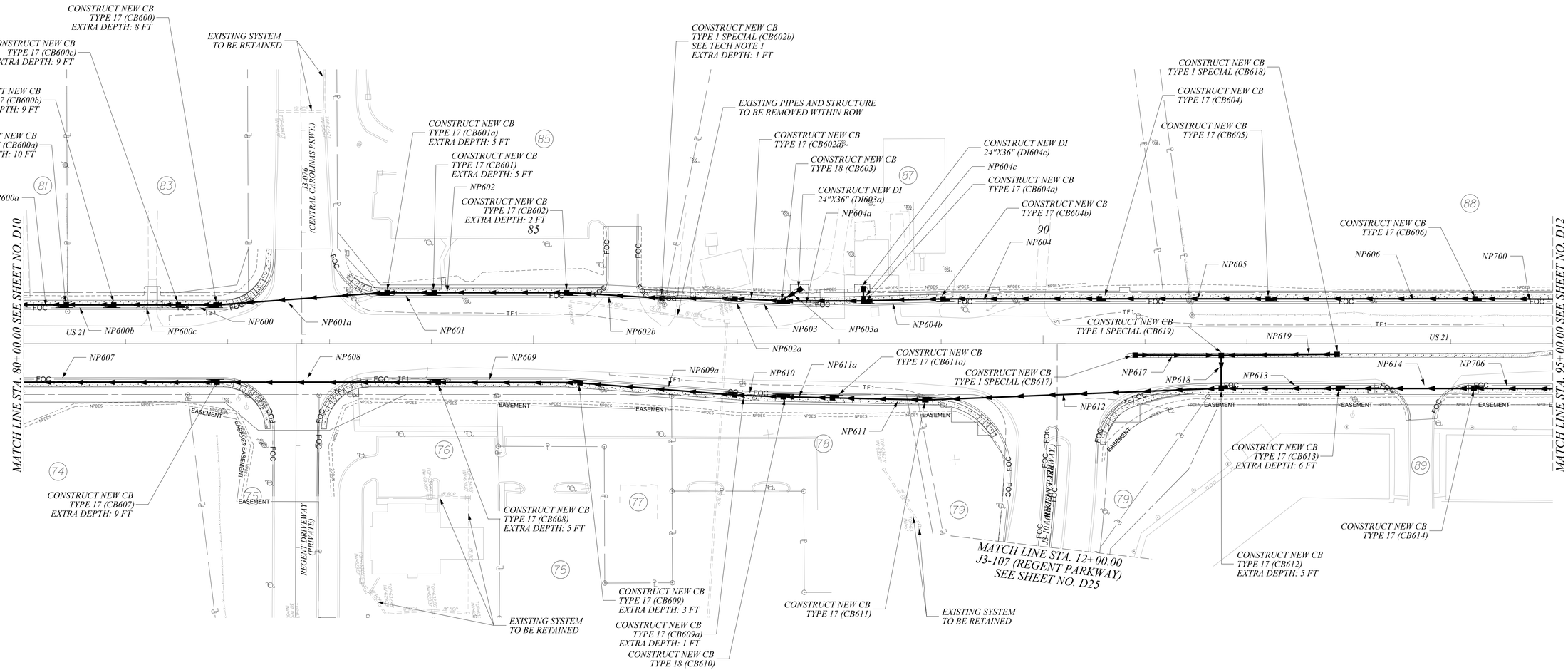
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	DII



TECHNICAL NOTES:

1. COORDINATE CB TYPE–1 SPECIAL (CB–602b) LOCATION WITH PEDESTRIAN AND DRIVEWAY CURB TRANSITIONS. SEE DETAIL SHEET D6.

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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scale 50 0 50 100 feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Registered SOUTH CAROLINA No. 21220 KELLY PARIS PETERS 1/14/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 11

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21	DIIA

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-600	24	1	33.10	0.33	CB-600	C.B. TYPE 17	81+86.06	636.98	CB-600c	C.B. TYPE 17	81+54.29	636.86	11.75	12.18	-	10	S	-	III	-	16ga	-
Closed	NP-600b	24	1	42.59	0.33	CB-600b	C.B. TYPE 17	80+85.61	636.66	CB-600a	C.B. TYPE 17	80+39.01	636.50	12.85	13.17	-	10	S	-	III	-	16ga	-
Closed	NP-600c	24	1	59.35	0.32	CB-600c	C.B. TYPE 17	81+54.29	636.86	CB-600b	C.B. TYPE 17	80+85.61	636.66	12.18	12.85	-	10	S	-	III	-	16ga	-
Closed	NP-601	24	1	42.18	0.33	CB-601	C.B. TYPE 17	84+00.00	637.65	CB-601a	C.B. TYPE 17	83+53.82	637.50	8.15	8.87	-	10	S	-	III	-	16ga	-
Closed	NP-601a	24	1	164.20	0.31	CB-601a	C.B. TYPE 17	83+53.82	637.50	CB-600	C.B. TYPE 17	81+86.06	636.98	8.87	11.75	-	10	S	-	III	-	16ga	-
Closed	NP-602	24	1	125.97	0.31	CB-602	C.B. TYPE 17	85+35.30	638.05	CB-601	C.B. TYPE 17	84+00.00	637.65	6.04	8.15	-	10	S	-	III	-	16ga	-
Closed	NP-602a	24	1	67.73	0.32	CB-602a	C.B. TYPE 17	86+94.96	638.58	CB-602b	C.B. TYPE 1 SP	86+26.18	638.35	3.93	4.91	-	10	-	-	III	-	16ga	-
Closed	NP-602b	24	1	89.59	0.32	CB-602b	C.B. TYPE 1 SP	86+26.18	638.35	CB-602	C.B. TYPE 17	85+35.30	638.05	4.91	6.04	-	10	S	-	III	-	16ga	-
Closed	NP-603	24	1	43.57	0.30	CB-603	C.B. TYPE 18	87+45.15	638.72	CB-602a	C.B. TYPE 17	86+94.96	638.58	3.79	3.93	-	10	-	-	III	-	16ga	-
Closed	NP-603a	18	1	16.52	1.00	DI-603a	D.I. 24"X36"	87+59.95	639.43	CB-603	C.B. TYPE 18	87+45.15	639.22	3.00	3.79	-	10	-	-	III	-	16ga	-
Closed	NP-604	18	1	149.21	2.25	CB-604	C.B. TYPE 17	90+57.75	644.92	CB-604b	C.B. TYPE 17	89+04.61	641.47	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-604a	18	1	74.61	1.10	CB-604a	C.B. TYPE 17	88+26.64	640.09	CB-603	C.B. TYPE 18	87+45.15	639.22	3.28	3.79	11	10	-	-	III	-	16ga	-
Closed	NP-604b	18	1	73.99	1.77	CB-604b	C.B. TYPE 17	89+04.61	641.47	CB-604a	C.B. TYPE 17	88+26.64	640.09	3.00	3.28	11	10	-	-	III	-	16ga	-
Closed	NP-604c	18	1	7.86	9.28	DI-604C	D.I. 24"X24"	88+21.09	641.19	CB-604a	C.B. TYPE 17	88+26.64	640.09	1.65	3.28	11	10	-	-	III	-	16ga	-
Closed	NP-605	18	1	161.58	2.11	CB-605	C.B. TYPE 17	92+23.33	648.42	CB-604	C.B. TYPE 17	90+57.75	644.92	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-606	18	1	199.03	2.19	CB-606	C.B. TYPE 17	94+26.36	652.86	CB-605	C.B. TYPE 17	92+23.33	648.42	3.00	3.00	35	10	-	-	III	-	16ga	-
Closed	NP-608	24	1	213.03	0.31	CB-608	C.B. TYPE 17	84+03.98	637.23	CB-607	C.B. TYPE 17	81+86.94	636.55	8.86	12.17	-	10	S	-	III	-	16ga	-
Closed	NP-609	24	1	135.14	0.32	CB-609	C.B. TYPE 17	85+43.35	637.58	CB-608	C.B. TYPE 17	84+03.98	637.14	6.80	8.95	-	10	S	-	III	-	16ga	-
Closed	NP-609a	24	1	148.07	0.34	CB-609a	C.B. TYPE 17	86+94.96	638.09	CB-609	C.B. TYPE 17	85+43.35	637.58	4.20	6.80	-	10	S	-	III	-	16ga	-
Closed	NP-610	24	1	43.87	0.29	CB-610	C.B. TYPE 18	87+45.29	638.23	CB-609a	C.B. TYPE 17	86+94.96	638.09	3.94	4.20	-	10	-	-	III	-	16ga	-
Closed	NP-611	18	1	86.73	1.04	CB-611	C.B. TYPE 17	88+86.76	639.83	CB-611a	C.B. TYPE 17	87+96.05	638.89	3.91	4.00	-	10	S	-	III	-	16ga	-
Closed	NP-611a	24	1	44.11	0.33	CB-611a	C.B. TYPE 17	87+96.05	638.39	CB-610	C.B. TYPE 18	87+45.29	638.23	3.91	3.94	-	10	-	-	III	-	16ga	-
Closed	NP-612	18	1	287.01	0.68	CB-612	C.B. TYPE 17	91+77.48	641.82	CB-611	C.B. TYPE 17	88+86.76	639.83	4.00	8.60	-	10	S	-	III	-	16ga	-
Closed	NP-613	18	1	110.86	0.45	CB-613	C.B. TYPE 17	92+92.33	643.33	CB-612	C.B. TYPE 17	91+77.48	642.82	7.60	9.60	-	10	S	-	III	-	16ga	-
Closed	NP-614	18	1	128.86	7.15	CB-614	C.B. TYPE 17	94+25.20	652.84	CB-613	C.B. TYPE 17	92+92.33	643.33	3.00	9.60	-	10	-	-	III	-	16ga	-
Closed	NP-617	18	1	80.35	0.47	CB-617	C.B. TYPE 1 SP	90+90.46	646.79	CB-619	C.B. TYPE 1 SP	91+74.81	646.39	1.75	4.19	-	10	-	-	III	-	16ga	-
Closed	NP-618	18	1	28.50	1.20	CB-619	C.B. TYPE 1 SP	91+74.81	646.39	CB-612	C.B. TYPE 17	91+77.48	646.00	4.19	4.42	-	10	S	-	III	-	16ga	-
Closed	NP-619	18	1	109.68	2.19	CB-618	C.B. TYPE 1 SP	92+88.49	650.57	CB-619	C.B. TYPE 1 SP	91+74.81	648.08	2.50	2.50	-	10	-	-	III	-	16ga	-
Closed	NP-700	18	1	271.81	1.76	CB-700	C.B. TYPE 17	97+01.50	657.71	CB-606	C.B. TYPE 17	94+26.36	652.86	3.00	3.19	-	10	-	-	III	-	16ga	-
Closed	NP-706	18	1	230.96	2.19	CB-706	C.B. TYPE 17	96+60.71	657.99	CB-614	C.B. TYPE 17	94+25.20	652.84	3.00	3.00	-	10	-	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 1/11/2023 — MARY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 12

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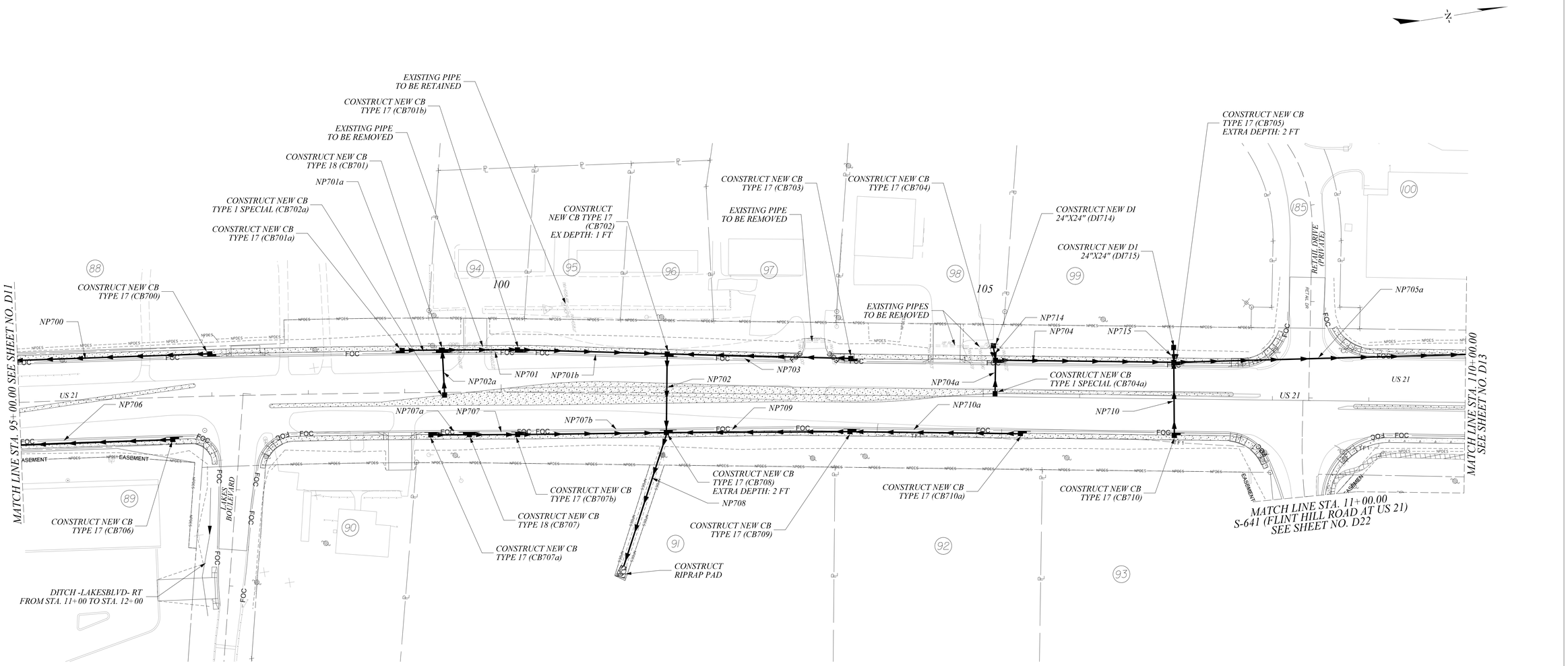
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	D12



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scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer No. 21220 1/11/2023 PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 13

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	D12A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-701	18	1	73.91	0.53	CB-701	C.B. TYPE 18	99+39.32	659.39	CB-701b	C.B. TYPE 17	100+19.63	658.98	3.30	3.75	-	10	-	-	III	-	16ga	-
Closed	NP-701a	18	1	37.69	0.92	CB-701a	C.B. TYPE 17	98+95.10	659.77	CB-701	C.B. TYPE 18	99+39.32	659.39	3.00	3.30	-	10	-	-	III	-	16ga	-
Closed	NP-701b	18	1	151.41	0.40	CB-701b	C.B. TYPE 17	100+19.63	658.98	CB-702	C.B. TYPE 17	101+74.45	658.36	3.75	5.13	-	10	S	-	III	-	16ga	-
Closed	NP-702	18	1	77.72	0.50	CB-702	C.B. TYPE 17	101+74.45	658.36	CB-708	C.B. TYPE 17	101+74.44	657.95	5.13	5.52	-	10	S	-	III	-	16ga	-
Closed	NP-702a	18	1	42.78	0.93	CB-702a	C.B. TYPE 1 SP	99+43.78	659.82	CB-701	C.B. TYPE 18	99+39.32	659.39	3.19	3.30	-	10	-	-	V	-	16ga	-
Closed	NP-703	18	1	186.54	2.19	CB-703	C.B. TYPE 17	103+64.98	662.53	CB-702	C.B. TYPE 17	101+74.45	658.36	3.00	5.13	22	10	-	-	III	-	16ga	-
Closed	NP-704	18	1	181.00	0.31	CB-704	C.B. TYPE 17	105+15.00	663.89	CB-705	C.B. TYPE 17	107+00.00	663.32	3.64	5.81	-	10	S	-	III	-	16ga	-
Closed	NP-704a	18	1	30.82	0.89	CB-704a	C.B. TYPE 1 SP	105+14.82	664.20	CB-704	C.B. TYPE 17	105+15.00	663.89	3.50	3.64	-	10	S	-	V	-	16ga	-
Closed	NP-705a	18	1	308.43	0.30	CB-705	C.B. TYPE 17	107+00.00	663.32	CB-800	C.B. TYPE 17	110+06.87	662.38	5.81	6.92	-	10	S	-	III	-	16ga	-
Closed	NP-707	18	1	46.05	0.54	CB-707	C.B. TYPE 18	99+66.85	659.38	CB-707b	C.B. TYPE 17	100+19.74	659.11	3.30	3.62	-	10	-	-	III	-	16ga	-
Closed	NP-707a	18	1	35.97	0.83	CB-707a	C.B. TYPE 17	99+29.42	659.71	CB-707	C.B. TYPE 18	99+66.85	659.38	3.00	3.30	-	10	-	-	III	-	16ga	-
Closed	NP-707b	18	1	150.31	0.75	CB-707b	C.B. TYPE 17	100+19.74	659.11	CB-708	C.B. TYPE 17	101+74.44	657.95	3.62	5.52	-	10	S	-	III	-	16ga	-
Closed	NP-708	24	1	143.36	3.06	CB-708	C.B. TYPE 17	101+74.44	657.45	Outlet-5	B.E.S.	101+28.50	653.00	1.00	5.52	-	10	-	-	III	-	16ga	-
Closed	NP-709	18	1	186.43	2.41	CB-709	C.B. TYPE 17	103+64.98	662.53	CB-708	C.B. TYPE 17	101+74.44	657.95	3.00	5.52	-	10	-	-	III	-	16ga	-
Closed	NP-710	18	1	72.01	2.84	CB-710	C.B. TYPE 17	107+01.38	665.48	CB-705	C.B. TYPE 17	107+00.00	663.32	3.66	5.81	-	10	S	-	V	-	16ga	-
Closed	NP-710a	18	1	172.76	1.30	CB-710a	C.B. TYPE 17	105+41.74	664.82	CB-709	C.B. TYPE 17	103+64.98	662.53	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-714	18	1	11.18	0.50	DI-714	D.I. 24"X24"	105+10.03	663.97	CB-704	C.B. TYPE 17	105+15.00	663.89	1.70	3.64	-	10	-	-	III	-	16ga	-
Closed	NP-715	18	1	11.42	6.00	DI-715	D.I. 24"X24"	106+94.47	664.25	CB-705	C.B. TYPE 17	107+00.00	663.32	2.51	5.81	-	10	-	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 12/4/2023 — PARIS PETERS

Docusigned by: Paris Peters 8BC2F9312F6D467...

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 14

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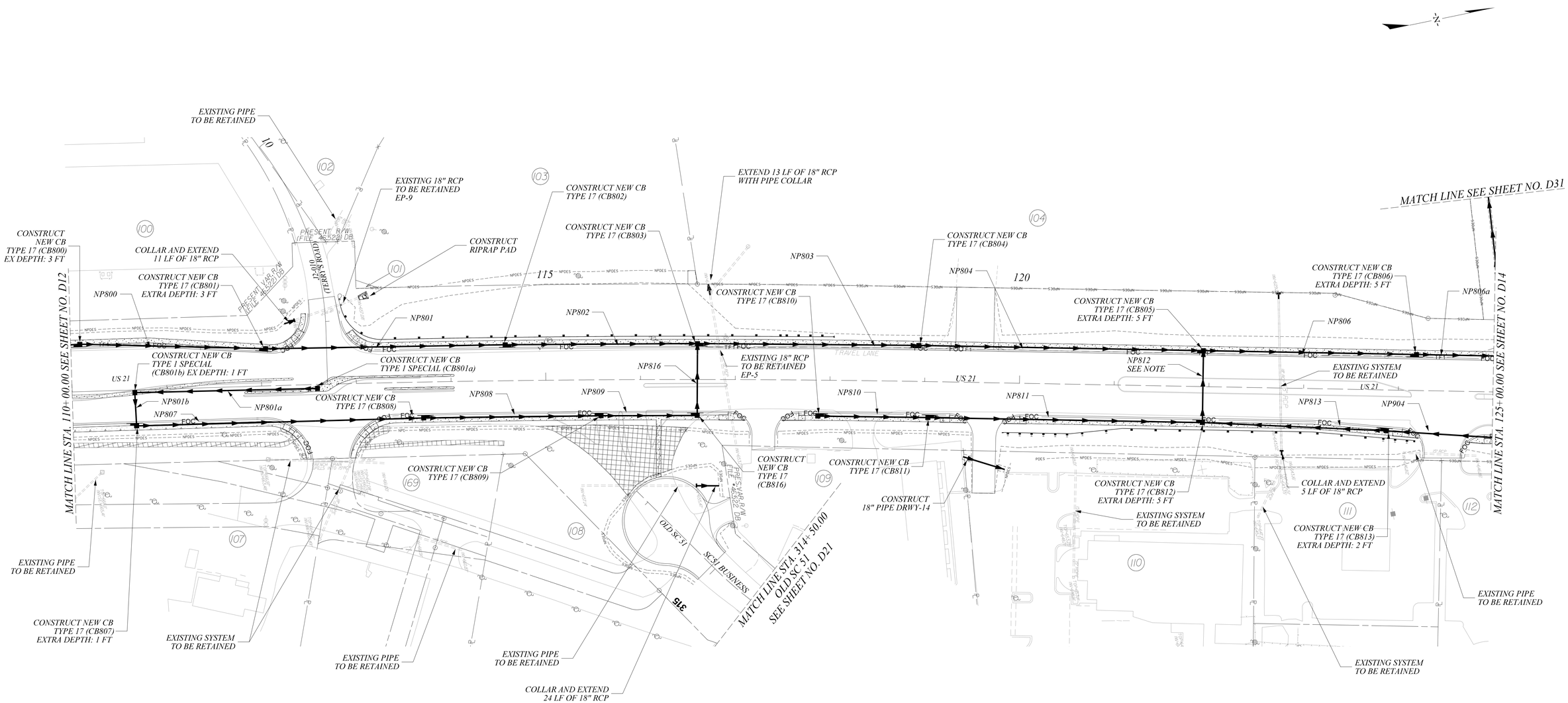
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	D13



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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2	JMB	7/29/20	TR 104: REMOVED PIPE EXTENSION AND RIP RAP PADS AT STA: 116+73 AND 122+72
1	JMB	7/16/20	TR 104: ADDED OUTFALL PIPE AND RIP RAP PAD

GENERAL NOTES:
1. FOR NP-812, SEE TRAFFIC CONTROL SHEETS FOR DIRECTIONAL BORE INFORMATION.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 PARIS PETERS
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 15

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	D13A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-800	18	1	192.03	0.31	CB-800	C.B. TYPE 17	110+06.87	662.38	CB-801	C.B. TYPE 17	112+02.34	661.78	6.73	6.92	-	10	S	-	III	-	16ga	-
Closed	NP-801	18	1	249.09	0.30	CB-801	C.B. TYPE 17	112+02.34	661.78	CB-802	C.B. TYPE 17	114+60.32	661.00	4.51	6.73	12	10	S	-	III	-	16ga	-
Closed	NP-801a	18	1	188.86	0.30	CB-801a	C.B. TYPE 1 SP	112+61.39	665.14	CB-801b	C.B. TYPE 1 SP	110+68.52	664.56	3.02	5.03	-	10	-	-	III	-	16ga	-
Closed	NP-801b	18	1	31.14	0.30	CB-801b	C.B. TYPE 1 SP	110+68.52	664.56	CB-807	C.B. TYPE 17	110+64.12	664.46	4.96	5.03	-	10	S	-	III	-	16ga	-
Closed	NP-802	18	1	198.92	1.14	CB-802	C.B. TYPE 17	114+60.32	661.00	CB-803	C.B. TYPE 17	116+62.72	658.69	4.07	4.51	-	10	S	-	III	-	16ga	-
Closed	NP-803	24	1	229.72	0.87	CB-803	C.B. TYPE 17	116+62.72	658.19	CB-804	C.B. TYPE 17	118+90.51	656.16	3.00	4.07	-	10	-	-	III	-	16ga	-
Closed	NP-804	24	1	296.41	3.50	CB-804	C.B. TYPE 17	118+90.51	656.16	CB-805	C.B. TYPE 17	121+90.86	645.64	3.00	9.44	-	10	-	-	III	-	16ga	-
Closed	NP-806	30	1	220.89	0.55	CB-805	C.B. TYPE 17	121+90.86	645.15	CB-806	C.B. TYPE 17	124+15.74	643.92	7.60	9.43	-	10	S	-	III	-	16ga	-
Closed	NP-806a	30	1	91.32	1.00	CB-806	C.B. TYPE 17	124+15.74	643.92	CB-806A	C.B. TYPE 17	125+11.07	642.97	7.25	7.60	-	10	S	-	III	-	16ga	-
Closed	NP-807	18	1	299.18	0.32	CB-807	C.B. TYPE 17	110+64.12	664.46	CB-808	C.B. TYPE 17	113+73.10	663.50	3.42	4.96	-	10	-	-	III	-	16ga	-
Closed	NP-808	18	1	183.17	1.22	CB-808	C.B. TYPE 17	113+73.10	663.50	CB-809	C.B. TYPE 17	115+55.41	661.22	3.00	3.42	-	10	-	-	III	-	16ga	-
Closed	NP-809	18	1	97.46	1.37	CB-809	C.B. TYPE 17	115+55.41	661.22	CB-816	C.B. TYPE 17	116+57.13	659.83	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-810	18	1	112.27	2.18	CB-810	C.B. TYPE 17	117+90.10	658.03	CB-811	C.B. TYPE 17	119+06.67	655.50	3.00	3.00	5	10	-	-	III	-	16ga	-
Closed	NP-811	18	1	285.73	2.97	CB-811	C.B. TYPE 17	119+06.67	655.50	CB-812	C.B. TYPE 17	121+91.10	646.90	3.00	8.67	-	10	-	-	III	-	16ga	-
Closed	NP-812	24	1	72.00	0.30	CB-812	C.B. TYPE 17	121+91.10	645.88	CB-805	C.B. TYPE 17	121+90.86	645.65	9.19	9.43	-	10	S	-	III	-	16ga	-
Closed	NP-813	24	1	190.34	0.32	CB-813	C.B. TYPE 17	123+85.58	646.50	CB-812	C.B. TYPE 17	121+91.10	645.88	5.67	9.19	10	10	S	-	III	-	16ga	-
Closed	NP-816	18	1	72.00	0.95	CB-816	C.B. TYPE 17	116+57.13	659.41	CB-803	C.B. TYPE 17	116+62.72	658.69	3.42	4.07	-	10	-	-	V	-	16ga	-
Closed	NP-904	18	1	152.27	0.31	CB-904	C.B. TYPE 17	125+41.49	647.48	CB-813	C.B. TYPE 17	123+85.58	647.00	3.00	5.67	10	10	-	-	III	-	16ga	-
Open	EP-5	18	1	172.00	9.30	CB-904	OPEN END	117+01.60	653.77	-	OPEN END	116+71.33	637.79	6.02	23.85	-	-	S	-	-	-	-	-
Open	EP-9	18	1	83.00	4.20	-	OPEN END	12+00.00	660.58	-	OPEN END	11+79.57	657.08	2.90	7.83	-	-	-	-	-	-	-	-
Open	DRWY-14	18	1	45.76	3.90	-	DRIVEWAY PIPE	119+42.00	653.84	-	DRIVEWAY PIPE	119+86.00	652.06	1.53	2.20	-	10	-	-	IV	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 7/14/2023 — JAMES MARTIN PARIS PETERS

Document Signed by: 8BC2F9312F6D467...

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1	JMB	7/16/20	TR 104: ADDED OUTFALL PIPE AND RIP RAP PAD

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 16

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1/0/2023

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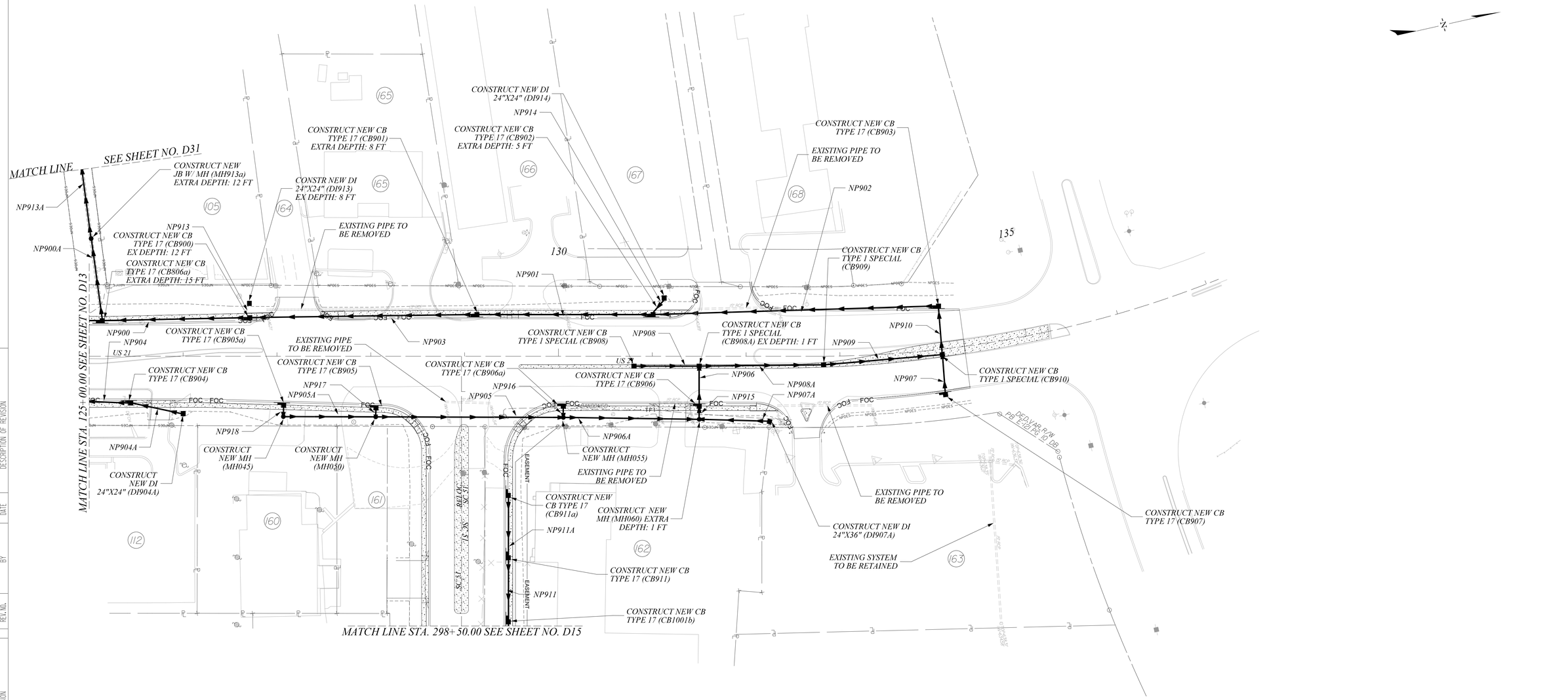
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	111149-004	US 21 SC 51	D14


MATCH LINE
SEE SHEET NO. D31
MATCH LINE STA. 125+00.00 SEE SHEET NO. D13
MATCH LINE STA. 298+50.00 SEE SHEET NO. D15
CONSTRUCT NEW JB W/ MH (MH913a) EXTRA DEPTH: 12 FT
NP913A
NP913
CONSTRUCT NEW CB TYPE 17 (CB900) EX DEPTH: 12 FT
NP900A
CONSTRUCT NEW CB TYPE 17 (CB806a) EXTRA DEPTH: 15 FT
CONSTR NEW DI 24"X24" (DI913) EX DEPTH: 8 FT
EXISTING PIPE TO BE REMOVED
CONSTRUCT NEW CB TYPE 17 (CB901) EXTRA DEPTH: 8 FT
CONSTRUCT NEW DI 24"X24" (DI914)
NP914
CONSTRUCT NEW CB TYPE 17 (CB902) EXTRA DEPTH: 5 FT
CONSTRUCT NEW CB TYPE 17 (CB903)
EXISTING PIPE TO BE REMOVED
NP902
CONSTRUCT NEW CB TYPE 1 SPECIAL (CB909)
NP901
NP900
NP904
US 21
CONSTRUCT NEW CB TYPE 17 (CB905a)
NP903
EXISTING PIPE TO BE REMOVED
CONSTRUCT NEW CB TYPE 1 SPECIAL (CB908)
NP908
CONSTRUCT NEW CB TYPE 1 SPECIAL (CB908A) EX DEPTH: 1 FT
NP909
NP910
CONSTRUCT NEW CB TYPE 17 (CB904)
CONSTRUCT NEW CB TYPE 17 (CB905)
CONSTRUCT NEW CB TYPE 17 (CB906a)
CONSTRUCT NEW CB TYPE 17 (CB906)
NP906
NP908A
NP907
CONSTRUCT NEW CB TYPE 1 SPECIAL (CB910)
NP917
NP905A
NP916
NP905
NP915
NP907A
NP918
NP904A
CONSTRUCT NEW MH (MH045)
CONSTRUCT NEW MH (MH030)
CONSTRUCT NEW DI 24"X24" (DI904A)
NP906A
CONSTRUCT NEW MH (MH055)
EXISTING PIPE TO BE REMOVED
EXISTING PIPE TO BE REMOVED
CONSTRUCT NEW CB TYPE 17 (CB907)
CONSTRUCT NEW CB TYPE 17 (CB911a)
CONSTRUCT NEW MH (MH060) EXTRA DEPTH: 1 FT
CONSTRUCT NEW DI 24"X36" (DI907A)
NP911A
EXISTING SYSTEM TO BE RETAINED
CONSTRUCT NEW CB TYPE 17 (CB911)
NP911
CONSTRUCT NEW CB TYPE 17 (CB1001b)
EASEMENT
EASEMENT
RIP RAP
DEDVAR,R/W
PB 21/81 & DB
FOC
FOC
FOC

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21 SC 51	DI4A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-900	30	1	153.33	0.31	CB-900	C.B. TYPE 17	126+68.43	632.20	CB-806A	C.B. TYPE 17	125+11.07	631.72	15.82	18.50	-	10	S	-	V	-	16ga	-
Closed	NP-900a	36	1	84.42	0.32	CB-806A	C.B. TYPE 17	125+11.07	631.22	MH-913A	M.H.	125+01.95	630.94	10.06	18.50	-	10	S	-	V	-	16ga	-
Closed	NP-901	30	1	183.72	0.34	CB-902	C.B. TYPE 17	130+98.13	633.58	CB-901	C.B. TYPE 17	129+10.41	632.95	8.77	11.83	-	10	S	-	III	-	16ga	-
Closed	NP-902	24	1	300.37	0.31	CB-903	C.B. TYPE 17	134+07.56	635.02	CB-902	C.B. TYPE 17	130+98.13	634.08	3.50	8.77	-	10	-	-	III	-	16ga	-
Closed	NP-903	30	1	238.07	0.31	CB-901	C.B. TYPE 17	129+10.41	632.94	CB-900	C.B. TYPE 17	126+68.43	632.20	11.84	15.82	-	10	S	-	III	-	16ga	-
Closed	NP-904a	18	1	52.93	0.39	DI-904A	D.I. 24"X24"	125+97.40	647.70	CB-904	C.B. TYPE 17	125+41.49	647.48	1.70	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-905	18	1	196.28	1.15	MH-050	M.H.	128+05.23	643.69	MH-055	M.H.	130+05.18	641.39	3.31	3.41	-	10	-	-	III	-	16ga	-
Closed	NP-905a	18	1	94.76	1.54	MH-045	M.H.	127+06.80	645.21	MH-050	M.H.	128+05.23	643.69	3.35	3.41	-	10	-	-	III	-	16ga	-
Closed	NP-906	24	1	39.00	3.00	CB-906	C.B. TYPE 17	131+47.35	640.01	CB-908A	C.B. TYPE 1 SP	131+50.00	638.72	2.71	4.09	-	10	-	-	III	-	16ga	-
Closed	NP-906a	18	1	141.17	0.78	MH-055	M.H.	130+05.18	641.39	MH-060	M.H.	131+50.00	640.26	3.18	3.31	-	10	-	-	III	-	16ga	-
Closed	NP-907	18	1	39.09	2.39	CB-907	C.B. TYPE 17	134+04.64	637.92	CB-910	C.B. TYPE 1 SP	134+08.82	636.89	3.58	4.40	-	10	S	-	V	-	16ga	-
Closed	NP-907a	18	1	71.21	0.32	DI-907A	D.I. 24"X36"	132+22.53	640.50	MH-060	M.H.	131+50.00	640.26	1.00	3.18	-	10	-	-	III	-	16ga	-
Closed	NP-908	18	1	65.56	0.30	CB-908	C.B. TYPE 1 SP	130+80.44	639.43	CB-908A	C.B. TYPE 1 SP	131+50.00	639.22	4.09	4.54	-	10	S	-	III	-	16ga	-
Closed	NP-908A	24	1	128.56	0.32	CB-908A	C.B. TYPE 1 SP	131+50.00	638.22	CB-909	C.B. TYPE 1 SP	132+82.58	637.80	3.73	4.59	-	10	-	-	III	-	16ga	-
Closed	NP-909	24	1	123.04	1.12	CB-909	C.B. TYPE 1 SP	132+82.58	637.70	CB-910	C.B. TYPE 1 SP	134+08.82	636.28	3.69	3.83	-	10	-	-	III	-	16ga	-
Closed	NP-910	24	1	47.89	2.43	CB-910	C.B. TYPE 1 SP	134+08.82	636.28	CB-903	C.B. TYPE 17	134+07.56	635.02	3.50	3.69	-	10	-	-	III	-	16ga	-
Closed	NP-911	18	1	64.28	0.44	CB-911	C.B. TYPE 17	297+74.63	640.83	CB-1001b	C.B. TYPE 17	298+42.91	640.53	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-911a	18	1	62.51	0.44	CB-911a	C.B. TYPE 17	297+08.12	641.12	CB-911	C.B. TYPE 17	297+74.63	640.83	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-913	18	1	11.14	6.00	DI-913	D.I. 24"X24"	126+68.09	634.69	CB-900	C.B. TYPE 17	126+68.43	633.78	11.84	15.24	-	10	S	-	III	-	16ga	-
Closed	NP-913a	36	1	267.99	6.00	MH-913A	M.H.	125+01.95	626.44	MH-805a	M.H.	124+66.18	610.14	8.86	14.56	-	10	S	-	III	-	16ga	-
Closed	NP-914	18	1	18.01	4.80	DI-914	D.I. 24"X24"	131+10.10	636.19	CB-902	C.B. TYPE 17	130+98.13	635.13	4.01	8.22	-	10	S	-	III	-	16ga	-
Closed	NP-915	24	1	9.97	1.09	MH-060	M.H.	131+50.00	640.16	CB-906	C.B. TYPE 17	131+47.35	640.01	2.71	2.78	-	10	-	-	III	-	16ga	-
Closed	NP-916	18	1	7.94	3.06	CB-906a	C.B. TYPE 17	130+02.51	641.75	MH-055	M.H.	130+05.18	641.39	2.64	3.31	-	10	-	-	III	-	16ga	-
Closed	NP-917	18	1	5.56	2.66	CB-905	C.B. TYPE 17	128+02.93	643.94	MH-050	M.H.	128+05.23	643.69	2.75	3.41	-	10	-	-	III	-	16ga	-
Closed	NP-918	18	1	8.11	3.10	CB-905a	C.B. TYPE 17	127+04.57	645.58	MH-045	M.H.	127+06.80	645.21	2.63	3.35	-	10	-	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2	SCN	5/05/25	STORM SYSTEM ALONG PARCEL 162 UPDATED
1	JMB	7/16/20	TR 104: ADDED OUTFALL PIPE AND RIP RAP PAD

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 21220 — 5/27/2025 — JULY PARIS PETERS — LICENSED PROFESSIONAL ENGINEER

DocuSigned by: Amy Parris 5/27/2025 | 8:07:17 PM EDT | 9D467...

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 18

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5/9/2025

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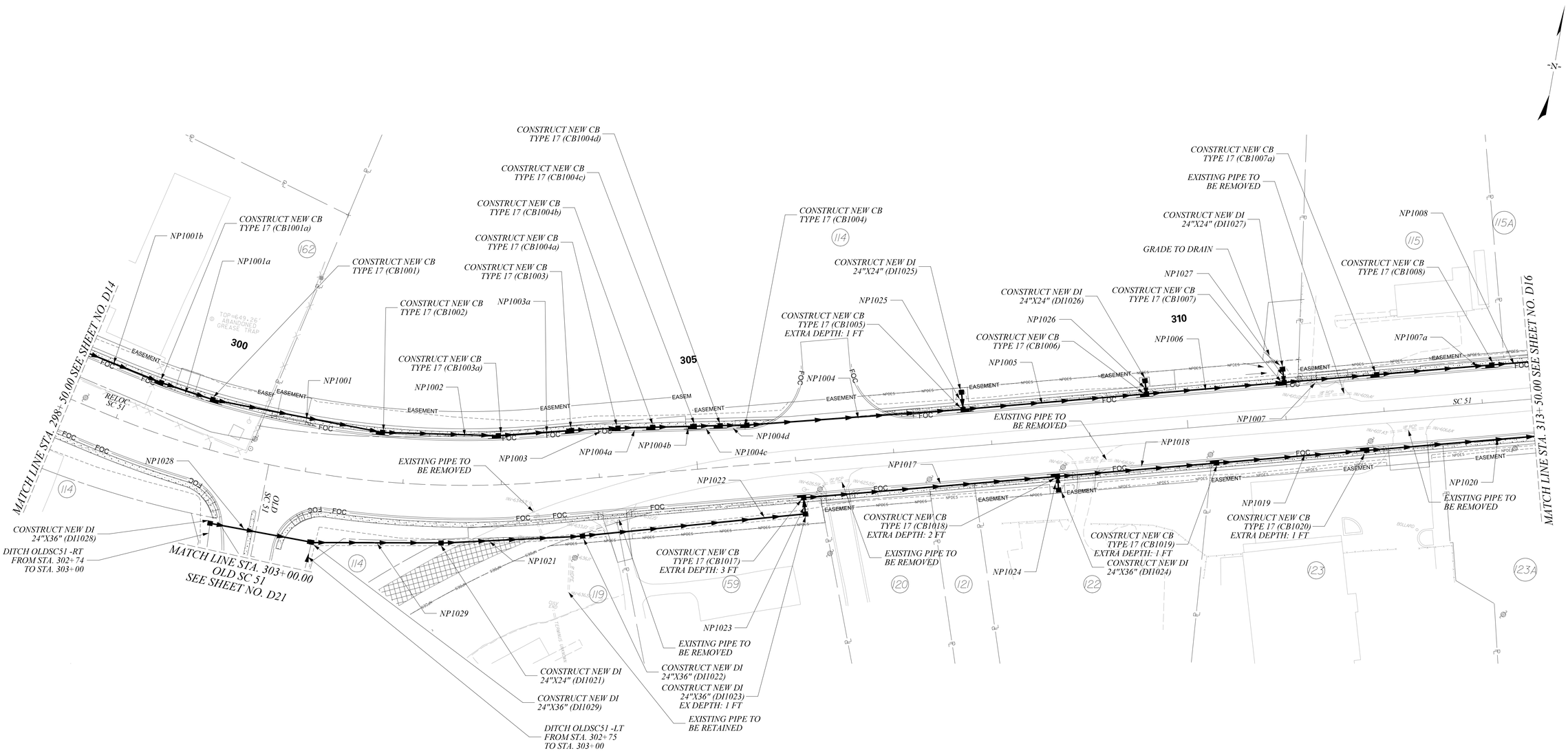
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	D15



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scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 11/11/2023 PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 19

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1	TGM	10/30/20	SUBDIVIDED 115 & 123, ADDED 115A & 123A
6			
5			
4			

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1/10/2023

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	SC 5I	DI5A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-1001	18	1	171.58	0.80	CB-1001	C.B. TYPE 17	299+91.75	639.18	CB-1002	C.B. TYPE 17	301+71.67	637.77	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1001a	18	1	51.11	1.16	CB-1001a	C.B. TYPE 17	299+27.96	639.82	CB-1001	C.B. TYPE 17	299+91.75	639.18	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1001b	18	1	78.88	0.86	CB-1001b	C.B. TYPE 17	298+42.91	640.53	CB-1001a	C.B. TYPE 17	299+27.96	639.82	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1002	18	1	113.80	1.92	CB-1002	C.B. TYPE 17	301+71.67	637.77	CB-1003a	C.B. TYPE 17	302+96.06	635.51	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1003	18	1	43.33	3.25	CB-1003	C.B. TYPE 17	303+72.96	633.48	CB-1004a	C.B. TYPE 17	304+20.09	631.94	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1003a	18	1	70.38	2.73	CB-1003a	C.B. TYPE 17	302+96.06	635.51	CB-1003	C.B. TYPE 17	303+72.96	633.48	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1004	18	1	216.24	3.91	CB-1004	C.B. TYPE 17	305+50.79	627.75	CB-1005	C.B. TYPE 17	307+76.52	619.15	3.10	4.26	-	10	-	-	III	-	16ga	-
Closed	NP-1004a	18	1	31.29	2.83	CB-1004a	C.B. TYPE 17	304+20.09	631.94	CB-1004b	C.B. TYPE 17	304+55.31	630.94	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1004b	18	1	38.20	3.34	CB-1004b	C.B. TYPE 17	304+55.31	630.94	CB-1004c	C.B. TYPE 17	304+97.43	629.53	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1004c	18	1	22.41	3.10	CB-1004c	C.B. TYPE 17	304+97.43	629.53	CB-1004d	C.B. TYPE 17	305+23.79	628.71	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1004d	18	1	23.05	3.55	CB-1004d	C.B. TYPE 17	305+23.79	628.71	CB-1004	C.B. TYPE 17	305+50.79	627.75	3.00	3.10	-	10	-	-	III	-	16ga	-
Closed	NP-1005	24	1	182.98	2.56	CB-1005	C.B. TYPE 17	307+76.52	618.65	CB-1006	C.B. TYPE 17	309+58.17	613.87	3.00	4.26	8	10	-	-	III	-	16ga	-
Closed	NP-1006	24	1	136.35	3.32	CB-1006	C.B. TYPE 17	309+58.17	613.87	CB-1007	C.B. TYPE 17	310+98.52	609.21	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1007	24	1	90.43	3.33	CB-1007	C.B. TYPE 17	310+98.52	609.21	CB-1007a	C.B. TYPE 17	311+92.95	606.07	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1007a	24	1	113.17	3.33	CB-1007a	C.B. TYPE 17	311+92.95	606.07	CB-1008	C.B. TYPE 17	313+10.11	602.17	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1008	24	1	173.59	2.86	CB-1008	C.B. TYPE 17	313+10.11	602.17	CB-1101	C.B. TYPE 17	314+87.71	597.09	3.00	3.00	16	10	-	-	III	-	16ga	-
Closed	NP-1017	42	1	254.71	2.86	CB-1017	C.B. TYPE 17	306+02.33	622.06	CB-1018	C.B. TYPE 17	308+61.04	614.66	3.94	5.31	-	10	-	-	III	-	16ga	-
Closed	NP-1018	42	1	158.20	2.74	CB-1018	C.B. TYPE 17	308+61.04	614.66	CB-1019	C.B. TYPE 17	310+23.24	610.21	3.00	3.94	-	10	-	-	III	-	16ga	-
Closed	NP-1019	42	1	148.98	3.33	CB-1019	C.B. TYPE 17	310+23.24	610.21	CB-1020	C.B. TYPE 17	311+76.22	605.12	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1020	42	1	229.06	3.28	CB-1020	C.B. TYPE 17	311+76.22	605.12	CB-1103	C.B. TYPE 17	314+09.29	597.47	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1021	36	1	139.91	3.46	DI-1021	D.I. 24"X24"	302+40.19	632.99	DI-1022	D.I. 24"X36"	303+78.00	628.00	3.00	3.01	7	10	-	-	III	-	16ga	-
Closed	NP-1022	36	1	223.51	2.37	DI-1022	D.I. 24"X36"	303+78.00	628.00	DI-1023	D.I. 24"X36"	306+05.30	622.61	3.00	3.00	7	10	-	-	III	-	16ga	-
Closed	NP-1023	42	1	12.49	0.30	DI-1023	D.I. 24"X36"	306+05.30	622.11	CB-1017	C.B. TYPE 17	306+02.33	622.06	3.00	5.31	-	10	-	-	III	-	16ga	-
Closed	NP-1024	18	1	9.75	0.30	DI-1024	D.I. 24"X36"	308+63.79	616.70	CB-1018	C.B. TYPE 17	308+61.04	616.66	3.00	3.94	-	10	-	-	III	-	16ga	-
Closed	NP-1025	18	1	13.45	0.30	DI-1025	D.I. 24"X24"	307+73.76	619.20	CB-1005	C.B. TYPE 17	307+76.52	619.15	3.00	4.26	-	10	-	-	III	-	16ga	-
Closed	NP-1026	18	1	9.45	0.97	DI-1026	D.I. 24"X24"	309+60.46	614.50	CB-1006	C.B. TYPE 17	309+58.17	614.37	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1027	18	1	9.43	3.80	DI-1027	D.I. 24"X24"	311+00.81	610.22	CB-1007	C.B. TYPE 17	310+98.52	609.71	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1028	18	1	100.86	3.72	DI-1028	D.I. 24"X36"	300+19.89	638.78	DI-1029	D.I. 24"X36"	301+17.29	634.88	2.25	2.25	-	10	-	-	III	-	16ga	-
Closed	NP-1029	36	1	127.58	0.30	DI-1029	D.I. 24"X36"	301+17.29	633.38	DI-1021	D.I. 24"X24"	302+40.19	632.99	2.25	3.01	-	10	-	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C0338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 11/14/2023 — MATTHEW PARIS PETERS

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 20

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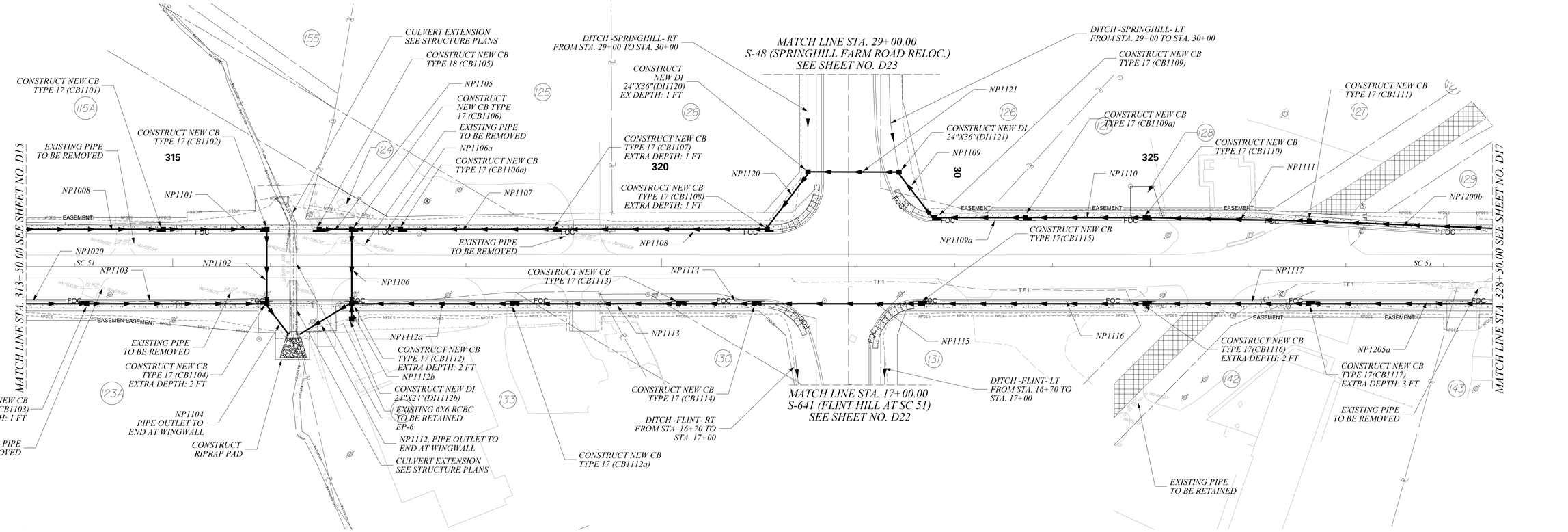
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	SC 51	D16



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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4	TGM	11/1/20	ADDED 40' DROP CURB DRIVEWAY - TR 115A & 123A
3	TGM	10/30/20	SUBDIVIDED 115 & 123, ADDED 115A & 123A
2			
1			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

NOTE: BASED ON FIELD OBSERVATIONS, CULVERT EP-6 IS IDENTIFIED AS 4'X6' RCBC

GENERAL NOTES:
1. CLEAN OUT EXISTING BOX CULVERTS IF NEEDED, SCDOT PAY ITEM: 7013550

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
11/1/2023
TIMOTHY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 21

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	SC 5I	DI6A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-1101	24	1	101.84	1.29	CB-1101	C.B. TYPE 17	314+87.71	597.09	CB-1102	C.B. TYPE 17	315+93.54	595.72	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1102	24	1	72.00	0.95	CB-1102	C.B. TYPE 17	315+93.54	594.94	CB-1104	C.B. TYPE 17	315+93.54	594.22	3.78	4.50	-	10	-	-	V	-	16ga	-
Closed	NP-1103	42	1	180.25	2.16	CB-1103	C.B. TYPE 17	314+09.29	597.47	CB-1104	C.B. TYPE 17	315+93.54	593.49	3.00	3.73	-	10	-	-	III	-	16ga	-
Closed	NP-1104	42	1	37.00	8.70	CB-1104	C.B. TYPE 17	315+93.54	593.49	Outfall-9	HEADWALL	316+18.59	590.10	1.00	3.73	-	10	-	-	III	-	16ga	-
Closed	NP-1105	18	1	29.27	0.34	CB-1105	C.B. TYPE 18	316+49.87	596.03	CB-1106	C.B. TYPE 17	316+85.81	595.92	3.00	3.18	-	10	-	-	III	-	16ga	-
Closed	NP-1106	24	1	72.00	1.70	CB-1106	C.B. TYPE 17	316+85.81	594.84	CB-1112	C.B. TYPE 17	316+85.81	593.55	3.76	5.05	-	10	-	-	V	-	16ga	-
Closed	NP-1106a	24	1	46.00	2.16	CB-1106a	C.B. TYPE 17	317+35.81	596.50	CB-1106	C.B. TYPE 17	316+85.81	595.42	2.49	3.18	-	10	-	-	III	-	16ga	-
Closed	NP-1107	24	1	154.19	1.08	CB-1107	C.B. TYPE 17	318+94.00	598.21	CB-1106a	C.B. TYPE 17	317+35.81	596.50	2.49	3.93	8	10	-	-	III	-	16ga	-
Closed	NP-1108	24	1	212.79	2.26	CB-1108	C.B. TYPE 17	321+10.79	603.10	CB-1107	C.B. TYPE 17	318+94.00	598.21	3.93	4.31	-	10	-	-	III	-	16ga	-
Closed	NP-1109	18	1	56.17	5.17	CB-1109	C.B. TYPE 17	322+82.00	607.50	DI-1121	D.I. 24"X36"	30+02.38	604.39	2.78	4.50	100	10	-	-	III	-	16ga	-
Closed	NP-1109a	18	1	89.00	4.38	CB-1109a	C.B. TYPE 17	323+75.00	611.57	CB-1109	C.B. TYPE 17	322+82.00	607.50	3.00	4.50	100	10	-	-	III	-	16ga	-
Closed	NP-1110	18	1	118.51	1.37	CB-1110	C.B. TYPE 17	324+97.51	613.25	CB-1109a	C.B. TYPE 17	323+75.00	611.57	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1111	18	1	164.00	1.07	CB-1111	C.B. TYPE 17	326+65.26	615.04	CB-1110	C.B. TYPE 17	324+97.51	613.25	3.00	3.14	-	10	-	-	III	-	16ga	-
Closed	NP-1112	42	1	60.39	4.04	CB-1112	C.B. TYPE 17	316+85.81	592.62	Outlet-10	HEADWALL	316+29.60	590.10	1.00	4.48	-	10	-	-	III	-	16ga	-
Closed	NP-1112a	24	1	160.19	2.14	CB-1112a	C.B. TYPE 17	318+50.00	597.64	CB-1112	C.B. TYPE 17	316+85.81	594.12	3.26	4.48	-	10	-	-	III	-	16ga	-
Closed	NP-1112b	18	1	11.57	0.30	DI-1112b	D.I. 24"X24"	133+85.18	594.67	CB-1112	C.B. TYPE 17	316+85.81	594.62	1.70	4.48	-	10	-	-	III	-	16ga	-
Closed	NP-1113	24	1	166.00	1.62	CB-1113	C.B. TYPE 17	320+20.00	600.39	CB-1112a	C.B. TYPE 17	318+50.00	597.64	3.00	3.26	-	10	-	-	III	-	16ga	-
Closed	NP-1114	24	1	73.47	5.46	CB-1114	C.B. TYPE 17	320+97.47	604.62	CB-1113	C.B. TYPE 17	320+20.00	600.39	2.51	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1115	24	1	166.25	2.11	CB-1115	C.B. TYPE 17	322+67.71	608.22	CB-1114	C.B. TYPE 17	320+97.47	604.62	2.51	3.10	-	10	-	-	III	-	16ga	-
Closed	NP-1116	24	1	225.80	0.92	CB-1116	C.B. TYPE 17	324+97.51	610.34	CB-1115	C.B. TYPE 17	322+67.71	608.22	3.10	5.66	-	10	-	-	III	-	16ga	-
Closed	NP-1117	24	1	163.19	0.31	CB-1117	C.B. TYPE 17	326+64.70	610.86	CB-1116	C.B. TYPE 17	324+97.51	610.34	5.66	6.99	-	10	S	-	III	-	16ga	-
Closed	NP-1120	24	1	68.83	0.47	DI-1120	D.I. 24"X36"	30+02.16	603.44	CB-1108	C.B. TYPE 17	321+10.79	603.10	4.13	4.31	-	10	S	-	III	-	16ga	-
Closed	NP-1121	24	1	89.22	0.48	DI-1121	D.I. 24"X36"	30+02.38	603.89	DI-1120	D.I. 24"X36"	30+02.16	603.44	2.78	4.13	-	10	-	-	III	-	16ga	-
Closed	NP-1200b	18	1	209.29	0.31	CB-1200b	C.B. TYPE 17	328+73.25	615.69	CB-1111	C.B. TYPE 17	326+65.26	615.04	3.14	3.17	29	10	-	-	III	-	16ga	-
Closed	NP-1205a	24	1	264.27	0.30	CB-1205a	C.B. TYPE 17	329+27.63	611.67	CB-1117	C.B. TYPE 17	326+64.70	610.86	6.50	6.99	-	10	S	-	III	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 10/11/2023 — PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 22

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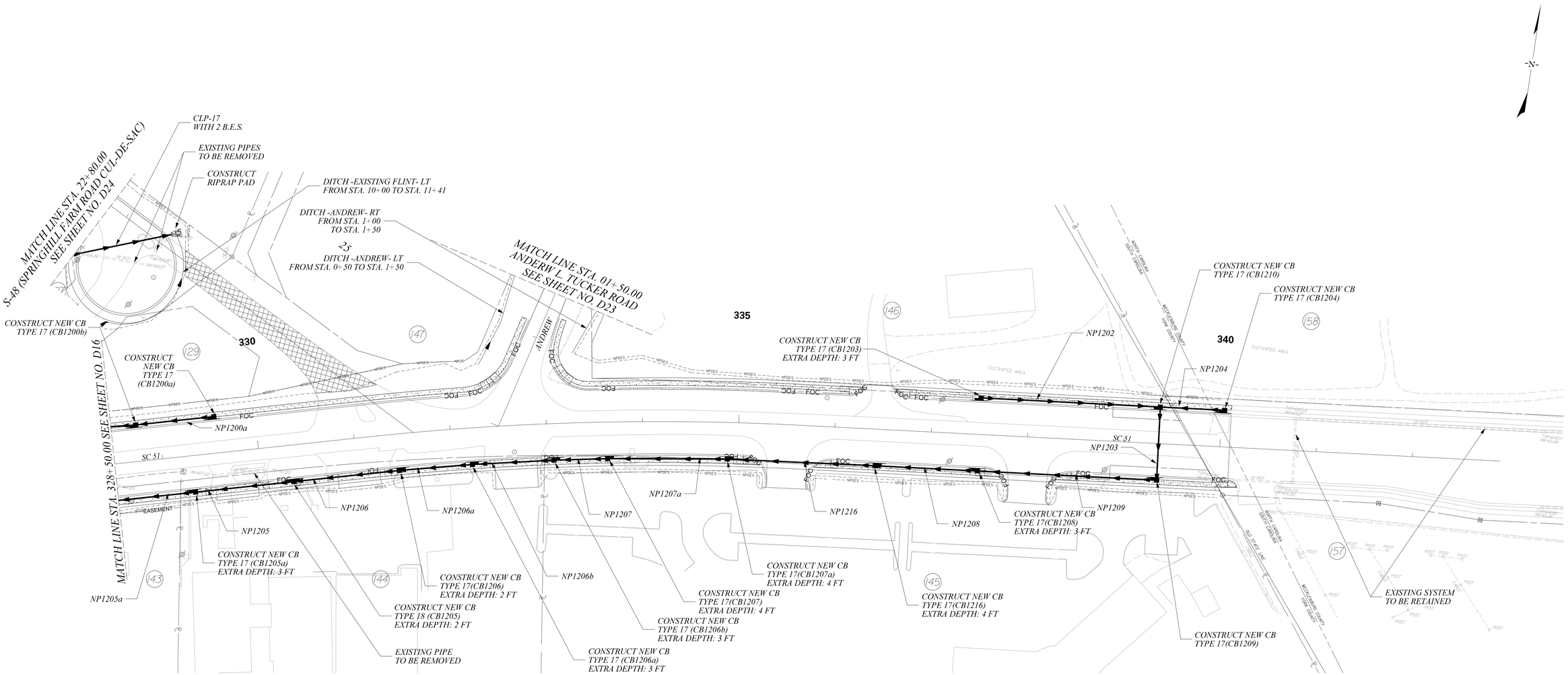
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	D17



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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220
11/14/2023
LAWRENCE PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 23

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	SC 5I	DI7A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-1202	18	1	182.27	1.53	CB-1203	C.B. TYPE 17	337+47.23	619.00	CB-1210	C.B. TYPE 17	339+33.50	616.15	2.92	3.10	7	10	-	-	III	-	16ga	-
Closed	NP-1203	18	1	72.00	0.71	CB-1210	C.B. TYPE 17	339+33.50	616.00	CB-1209	C.B. TYPE 17	339+33.50	615.46	3.07	4.12	-	10	-	-	V	-	16ga	-
Closed	NP-1200a	18	1	77.59	0.31	CB-1200a	C.B. TYPE 17	329+54.84	615.95	CB-1200b	C.B. TYPE 17	328+73.25	615.69	3.00	3.17	29	10	-	-	III	-	16ga	-
Closed	NP-1204	18	1	62.83	0.46	CB-1204	C.B. TYPE 17	340+00.33	616.46	CB-1210	C.B. TYPE 17	339+33.50	616.15	2.25	2.92	-	10	-	-	III	-	16ga	-
Closed	NP-1205	24	1	98.62	0.31	CB-1205	C.B. TYPE 18	330+32.92	611.99	CB-1205a	C.B. TYPE 17	329+27.63	611.67	5.94	6.50	-	10	S	-	III	-	16ga	-
Closed	NP-1206	24	1	106.07	0.31	CB-1206	C.B. TYPE 17	331+46.13	612.33	CB-1205	C.B. TYPE 18	330+32.92	611.99	5.94	5.94	-	10	S	-	III	-	16ga	-
Closed	NP-1206a	24	1	72.23	0.32	CB-1206a	C.B. TYPE 17	332+23.39	612.58	CB-1206	C.B. TYPE 17	331+46.13	612.33	5.94	6.21	-	10	S	-	III	-	16ga	-
Closed	NP-1206b	24	1	80.67	0.31	CB-1206b	C.B. TYPE 17	333+09.21	612.84	CB-1206a	C.B. TYPE 17	332+23.39	612.58	6.21	7.03	-	10	S	-	III	-	16ga	-
Closed	NP-1207	24	1	51.74	0.32	CB-1207	C.B. TYPE 17	333+65.70	613.02	CB-1206b	C.B. TYPE 17	333+09.21	612.84	7.03	7.70	20	10	S	-	III	-	16ga	-
Closed	NP-1207a	18	1	120.31	0.31	CB-1207a	C.B. TYPE 17	334+91.69	613.91	CB-1207	C.B. TYPE 17	333+65.70	613.52	7.70	8.54	20	10	S	-	III	-	16ga	-
Closed	NP-1208	18	1	102.23	0.31	CB-1208	C.B. TYPE 17	337+47.30	614.71	CB-1216	C.B. TYPE 17	336+46.40	614.38	7.24	8.32	-	10	S	-	III	-	16ga	-
Closed	NP-1209	18	1	182.20	0.40	CB-1209	C.B. TYPE 17	339+33.50	615.46	CB-1208	C.B. TYPE 17	337+47.30	614.71	4.12	7.24	7	10	S	-	III	-	16ga	-
Closed	NP-1216	18	1	149.77	0.31	CB-1216	C.B. TYPE 17	336+46.40	614.38	CB-1207a	C.B. TYPE 17	334+91.69	613.91	8.32	8.54	-	10	S	-	III	-	16ga	-
Closed	CLP-17	18	1	109.00	0.60	CB-1216	B.E.S.	22+76.44	615.60	-	B.E.S.	23+48.57	614.95	0.30	1.78	-	10	-	-	V	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER PARIS PETERS No. 21220 12/4/2023

Document is signed electronically. Agent is using certificate issued by Entrust Certificate Authority - EC1. 80C2F912F6D467...

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 24

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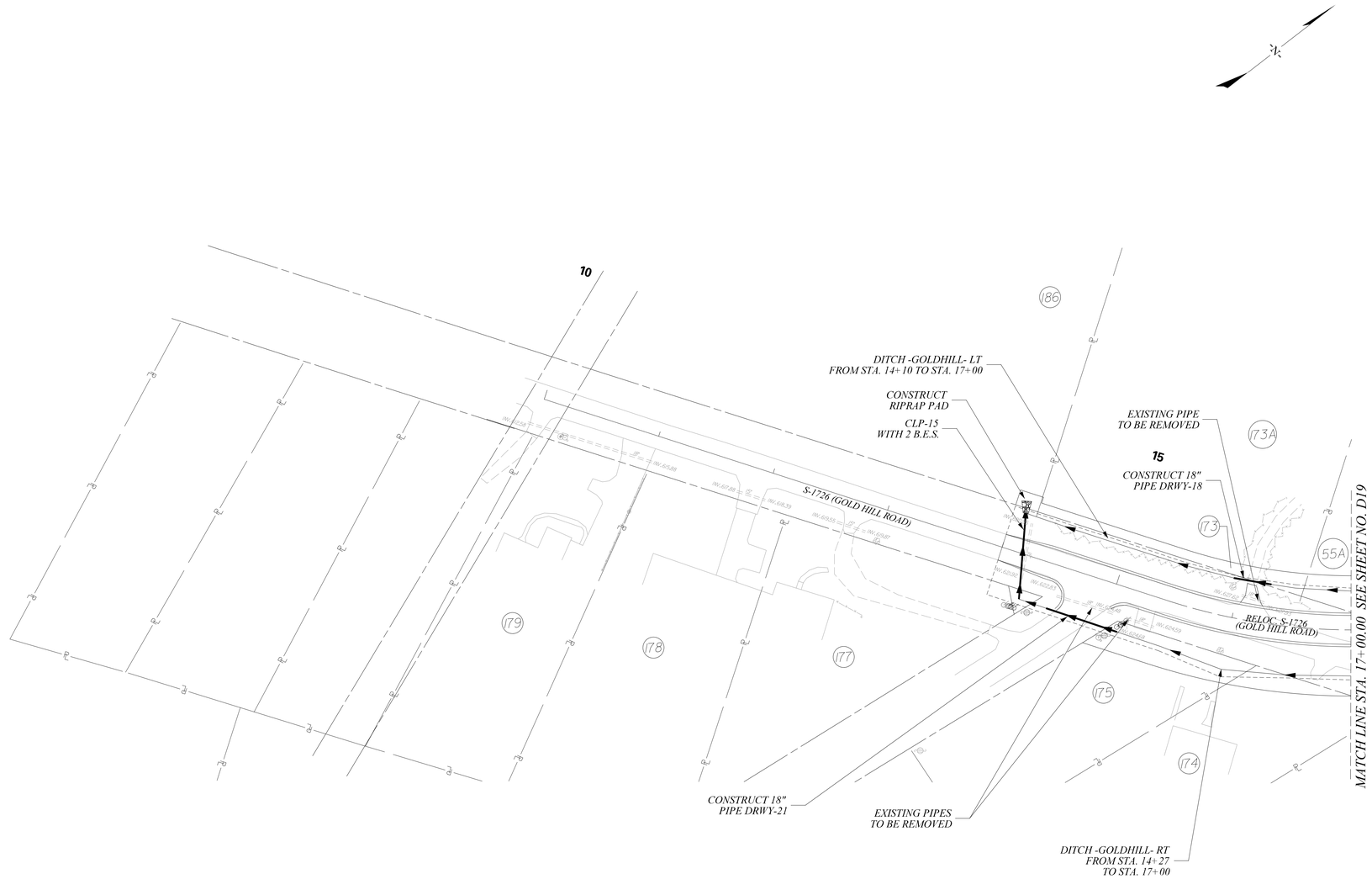
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-1726	D18



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scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
1/11/2023
PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 25

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1	TGM	8/11/20	ADDED TR 173A REVISED TR 173

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-1726	DI8A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Open	CLP-15	18	1	72.00	0.40	-	B.E.S.	14+26.56	620.26	-	B.E.S.	14+10.06	620.00	1.70	1.80	-	10	-	-	III	-	16ga	-
Open	DRWY-18	18	1	32.00	2.70	-	DRIVEWAY PIPE	1628.51	627.49	-	DRIVEWAY PIPE	1594.42	626.60	0.76	1.43	-	10	-	-	IV	-	16ga	-
Open	DRWY-21	18	1	62.00	4.24	-	DRIVEWAY PIPE	1512.61	625.04	-	DRIVEWAY PIPE	1450.37	622.41	0.42	1.09	-	10	-	-	IV	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 PARIS PETERS 12/4/2023

Document Id: 8BC2F912F6D467...

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 26

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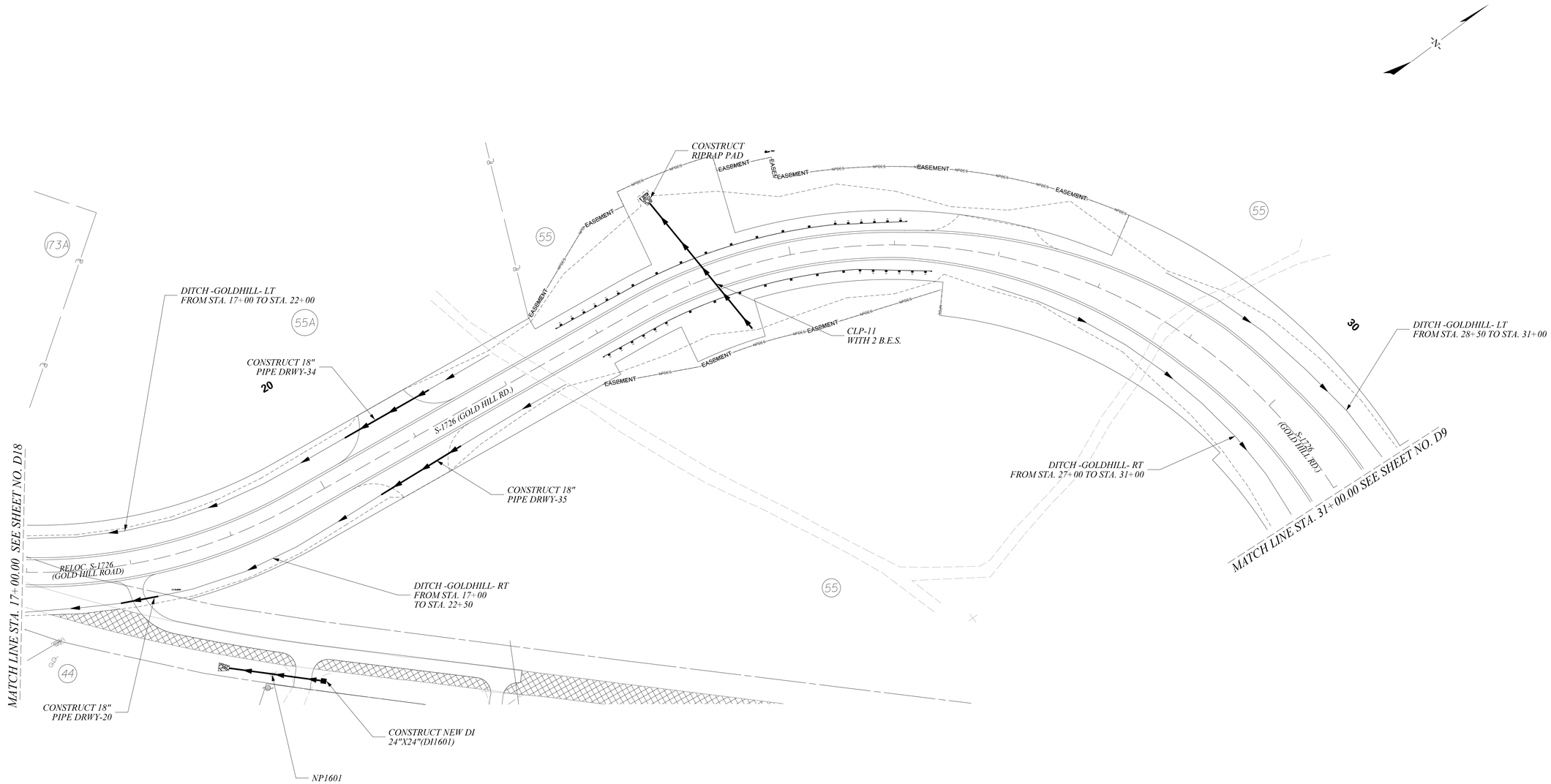
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-1726	D19



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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 11/11/2023 PARIS PETERS

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1	SCN	9/18/20	TR 55/55A: ADDED DRIVEWAY PIPES

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 27

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-1726	DI9A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-1601	18	1	89.04	1.12	DI-1601	D.I. 24"X24"	19+22.16	639.02	Outlet-16	B.E.S.	18+60.68	638.00	0.50	1.42	-	10	-	-	V	-	16ga	-
Closed	CLP-11	24	1	155.00	7.80	DI-1601	B.E.S.	24+43.81	618.70	-	B.E.S.	23+95.04	606.64	18.70	25.40	-	10	S	-	V	-	16ga	-
Open	DRWY-20	18	1	36.00	0.94	-	DRIVEWAY PIPE	18+19.05	632.74	-	DRIVEWAY PIPE	17+85.17	632.40	0.53	1.20	-	10	-	-	IV	-	16ga	-
Open	DRWY-34	18	1	93.00	0.37	-	DRIVEWAY PIPE	21+33.10	633.90	-	DRIVEWAY PIPE	20+40.57	633.59	0.75	0.75	-	10	-	-	IV	-	16ga	-
Open	DRWY-35	18	1	90.00	0.50	-	DRIVEWAY PIPE	21+33.38	634.97	-	DRIVEWAY PIPE	20+44.01	634.52	0.75	0.75	-	10	-	-	IV	-	16ga	-

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1	SCN	9/18/20	TR 55/65A: ADDED DRIVEWAY PIPES

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 11/4/2023 — MARY PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 28

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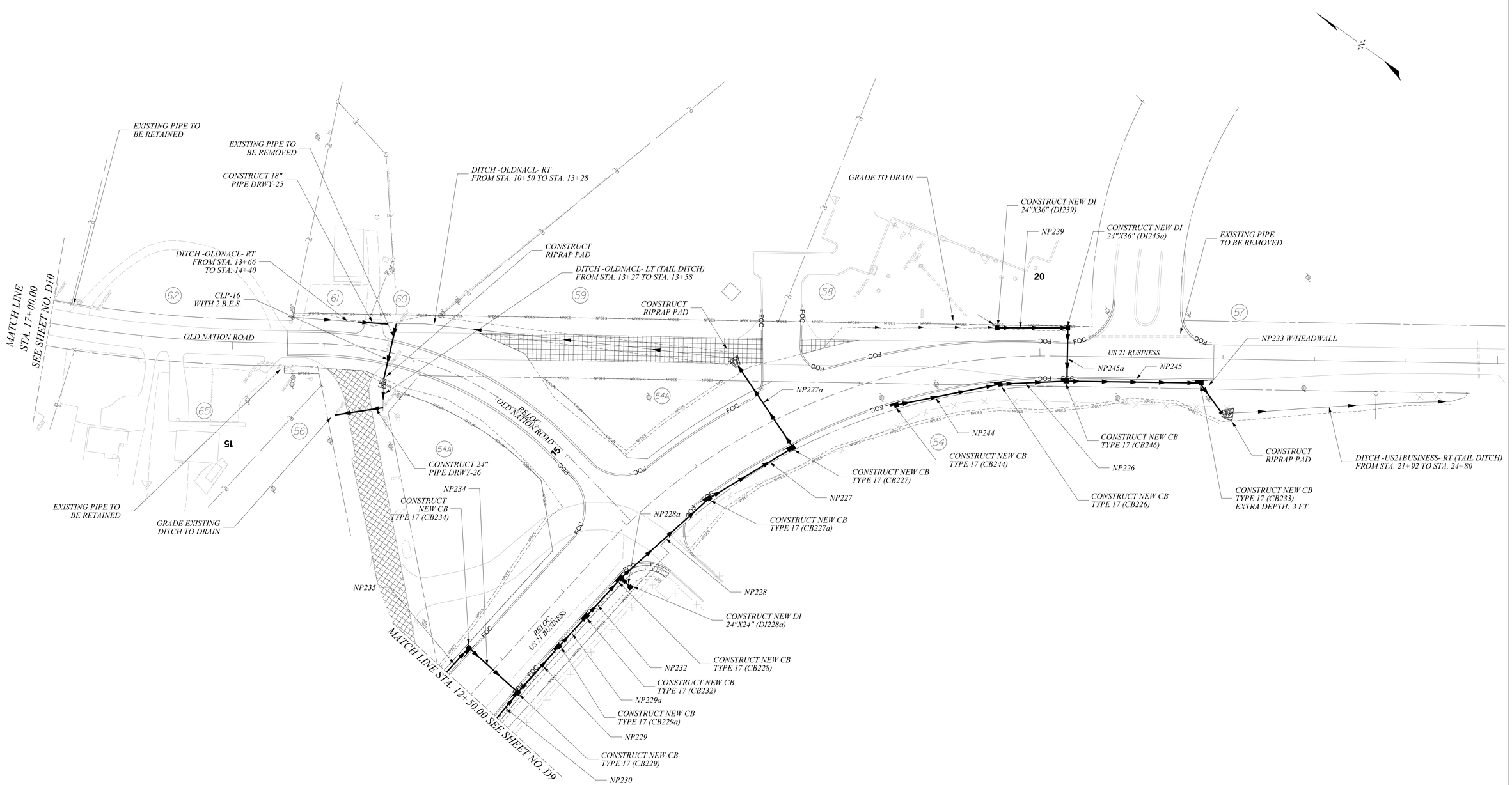
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21 BUS	D20



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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — 11/14/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 29

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21 BUS	D20A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-226	18	1	69.13	0.32	CB-226	C.B. TYPE 17	19+51.28	629.12	CB-246	C.B. TYPE 17	20+27.32	628.89	2.58	2.82	-	10	-	-	III	-	16ga	-
Closed	NP-227	24	1	102.91	0.38	CB-227a	C.B. TYPE 17	15+87.77	630.31	CB-227	C.B. TYPE 17	17+00.87	629.90	1.68	2.29	9	10	-	-	III	-	16ga	-
Closed	NP-227a	24	1	105.73	0.30	CB-227	C.B. TYPE 17	17+00.87	629.35	Outlet-4c	B.E.S.	16+91.00	629.03	2.00	2.23	9	10	-	-	V	-	16ga	-
Closed	NP-228	18	1	126.05	0.74	CB-228	C.B. TYPE 17	14+50.31	631.26	CB-227a	C.B. TYPE 17	15+87.77	630.30	2.80	2.96	-	10	-	-	V	-	16ga	-
Closed	NP-228a	18	1	10.10	1.14	DI-228a	D.I. 24"X24"	14+52.04	631.92	CB-228	C.B. TYPE 17	14+50.31	631.76	1.00	2.46	-	10	-	-	V	-	16ga	-
Closed	NP-229	18	1	63.52	0.50	CB-229	C.B. TYPE 17	12+81.99	632.61	CB-229a	C.B. TYPE 17	13+49.63	632.27	2.41	2.47	-	10	-	-	III	-	16ga	-
Closed	NP-229a	18	1	41.03	0.51	CB-229a	C.B. TYPE 17	13+49.63	632.27	CB-232	C.B. TYPE 17	13+94.67	632.04	2.41	2.44	-	10	-	-	III	-	16ga	-
Closed	NP-232	18	1	51.65	0.50	CB-232	C.B. TYPE 17	13+94.67	632.04	CB-228	C.B. TYPE 17	14+50.31	631.76	2.44	2.46	-	10	-	-	III	-	16ga	-
Closed	NP-233	30	1	38.81	1.51	CB-233	C.B. TYPE 17	21+74.00	623.07	Outfall-13	HEADWALL	22+00.00	622.46	1.00	5.97	-	10	-	-	III	-	16ga	-
Closed	NP-234	18	1	68.73	0.43	CB-234	C.B. TYPE 17	12+82.12	632.81	CB-229	C.B. TYPE 17	12+81.99	632.50	2.58	2.58	13	10	-	-	III	-	16ga	-
Closed	NP-239	18	1	73.34	1.85	DI-239	D.I. 24"X36"	19+58.07	631.63	DI-245a	D.I. 24"X36"	20+32.54	630.20	1.70	1.70	-	10	-	-	III	-	16ga	-
Closed	NP-244	18	1	111.61	0.38	CB-244	C.B. TYPE 17	18+29.94	629.56	CB-226	C.B. TYPE 17	19+51.28	629.12	2.58	2.58	-	10	-	-	III	-	16ga	-
Closed	NP-245	24	1	142.68	3.67	CB-246	C.B. TYPE 17	20+27.32	628.39	CB-233	C.B. TYPE 17	21+74.00	623.00	2.82	6.54	-	10	-	-	III	-	16ga	-
Closed	NP-245a	18	1	54.15	2.26	DI-245a	D.I. 24"X36"	20+32.54	630.20	CB-246	C.B. TYPE 17	20+27.32	628.89	1.70	2.82	-	10	-	-	III	-	16ga	-
Open	CLP-16	24	1	62.00	0.60	-	B.E.S.	13+27.58	627.92	-	B.E.S.	13+27.58	627.55	1.30	1.70	-	10	-	-	III	-	16ga	-
Open	DRWY-25	18	1	33.00	1.20	-	DRIVEWAY PIPE	13+66.42	630.04	-	DRIVEWAY PIPE	13+35.42	629.65	1.01	1.68	-	10	-	-	IV	-	16ga	-
Open	DRWY-26	24	1	53.30	0.60	-	DRIVEWAY PIPE	13+19.80	627.78	-	DRIVEWAY PIPE	13+81.77	627.13	1.01	1.68	-	10	-	-	IV	-	16ga	-

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 10/14/2023 — PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 30

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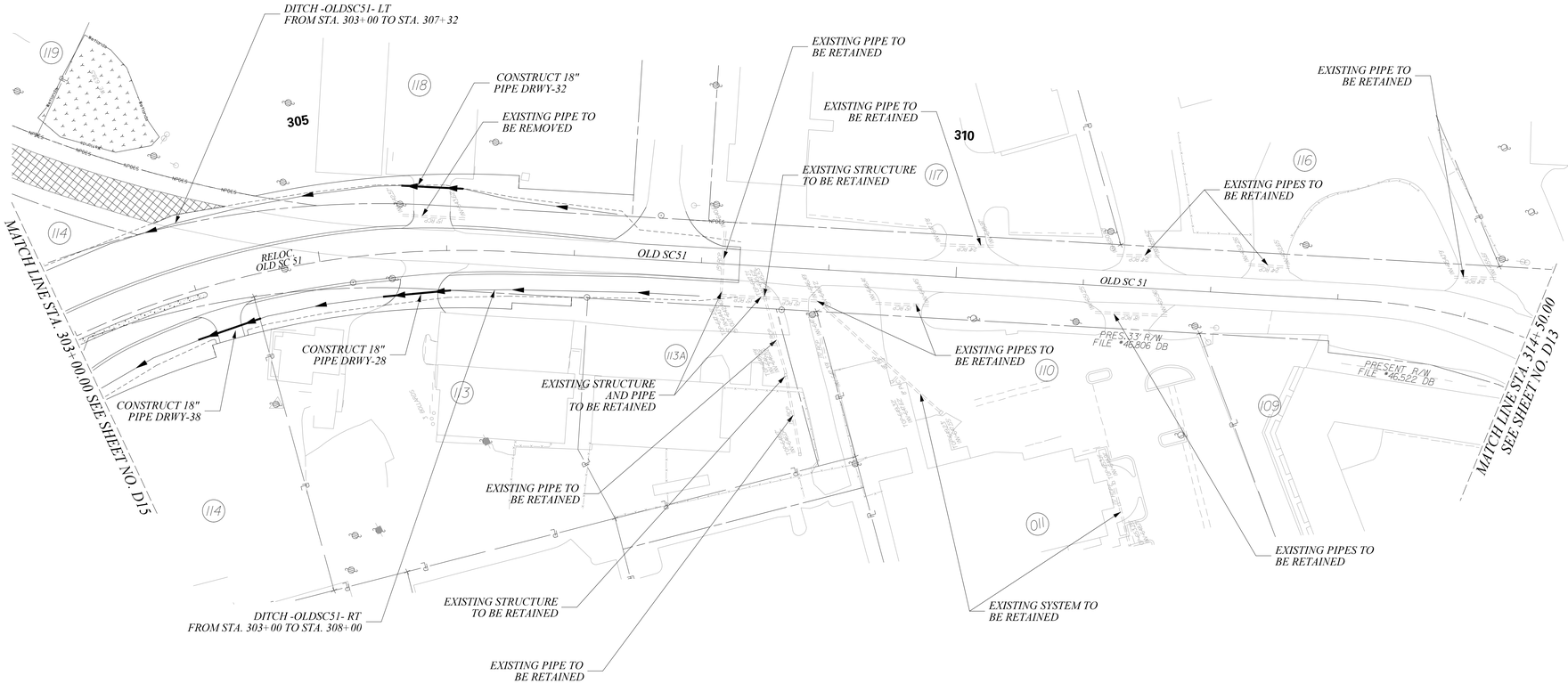
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	OLD SC 51	D2I



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA No. 21220 12/1/2023 AMY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 31

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	OLD SC 51	D21A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Open	DRWY-28	18	1	53.00	0.74	-	DRIVEWAY PIPE	306+02.83	644.98	-	DRIVEWAY PIPE	305+46.84	644.59	0.57	1.24	-	10	-	-	IV	-	16ga	-
Open	DRWY-32	18	1	49.00	0.40	-	DRIVEWAY PIPE	30612.89	642.11	-	DRIVEWAY PIPE	305+67.21	641.91	0.24	0.90	-	10	-	-	IV	-	16ga	-
Open	DRWY-38	18	1	52.01	2.00	-	DRIVEWAY PIPE	304+44.72	643.81	-	DRIVEWAY PIPE	303+90.17	642.77	0.24	0.90	-	11	-	-	IV	-	16ga	-

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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 1/11/2023 PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 32

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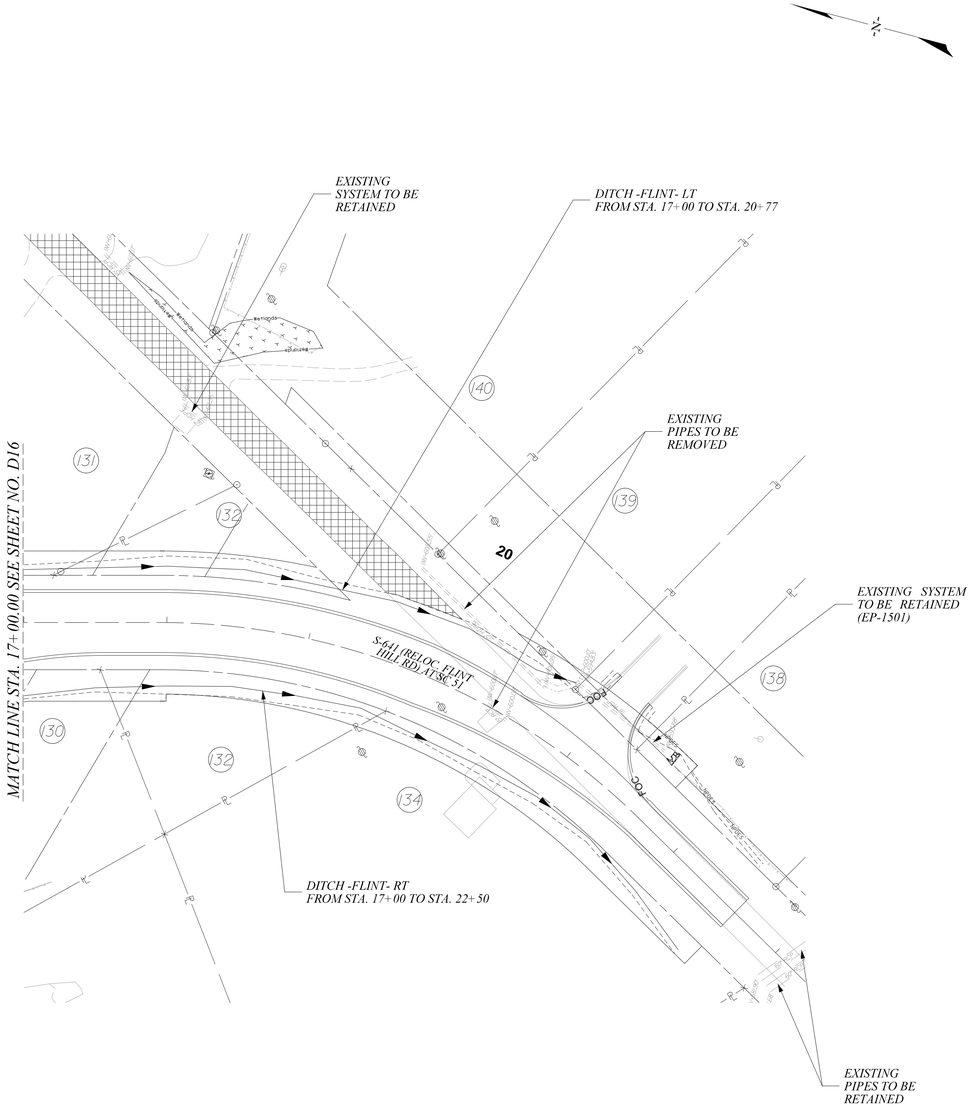
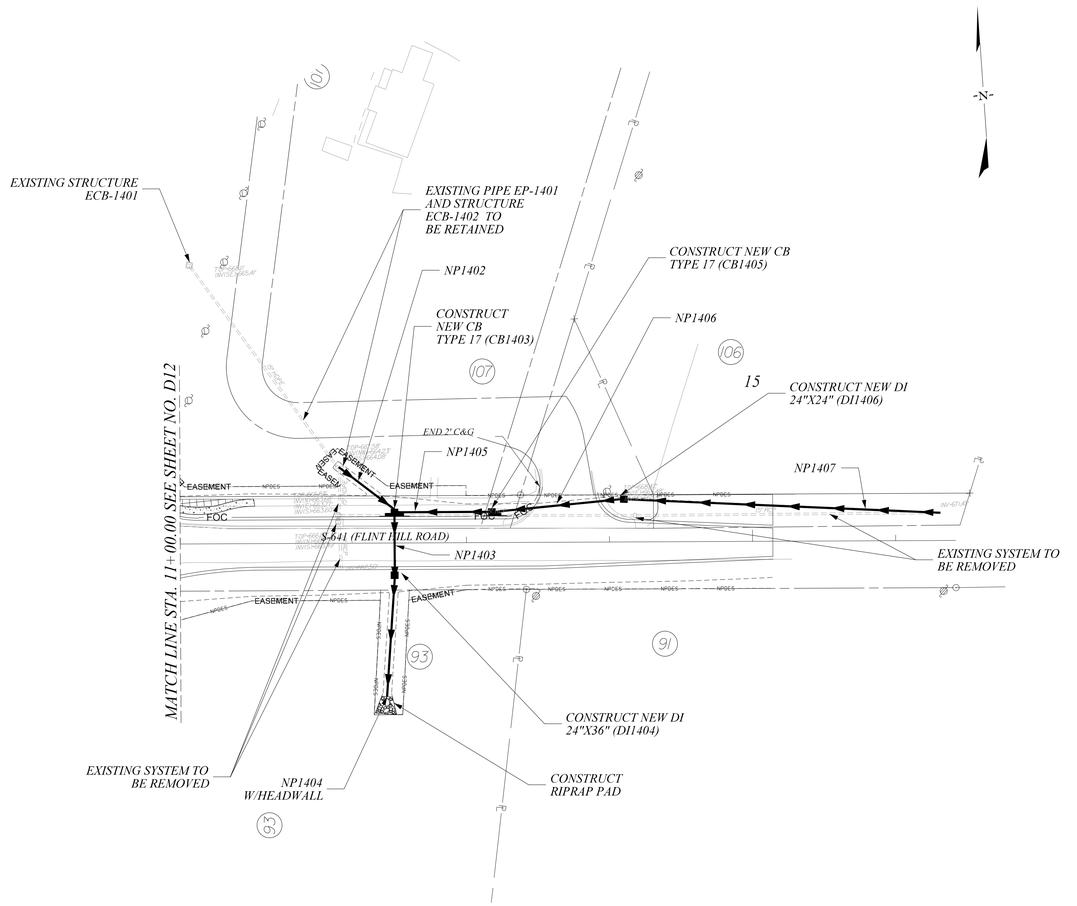
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-641	D22





ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — Professional Engineer — No. 21220 — 1/11/2023 — PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 33

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-641	D22A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	EP-1401	15	1	175.57	0.67	ECB-1401	EX.CATCH BSN	110+29.13	665.41	ECB-1402	EX.CATCH BSN	12+10.95	664.23	-	-	-	-	-	-	-	-	-	-
Closed	EP-1501	18	1	77.73	1.48	EDI-1501	EXISTING D.I.	20+76.94	594.83	Outlet-15	B.E.S.	21+47.87	593.68	-	-	-	-	-	-	-	-	-	-
Closed	NP-1402	18	1	48.96	2.26	ECB-1402	EX.CATCH BSN	12+10.95	664.08	CB-1403	C.B. TYPE 18	12+49.83	662.93	2.00	3.00	14	10	-	-	III	-	16ga	-
Closed	NP-1403	30	1	40.00	0.30	CB-1403	C.B. TYPE 18	12+49.83	662.04	DI-1404	D.I. 24"X36"	12+49.83	661.91	2.24	2.89	16	10	-	-	III	-	16ga	-
Closed	NP-1404	30	1	83.01	0.51	DI-1404	D.I. 24"X36"	12+49.83	661.81	Outlet-14	HEADWALL	12+44.07	661.38	1.00	2.34	-	10	-	-	III	-	16ga	-
Closed	NP-1405	24	1	64.03	0.44	CB-1405	C.B. TYPE 17	13+20.52	662.84	CB-1403	C.B. TYPE 18	12+49.83	662.54	2.89	3.09	-	10	-	-	III	-	16ga	-
Closed	NP-1406	24	1	88.79	0.54	DI-1406	D.I. 24"X36"	14+10.14	663.43	CB-1405	C.B. TYPE 17	13+20.52	662.93	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-1407	18	1	219.40	3.41	OEP-1407	B.E.S.	16+31.39	671.47	DI-1406	D.I. 24"X36"	14+10.14	663.93	1.00	3.00	-	10	-	-	III	-	16ga	-

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 PARIS PETERS 12/4/2023

Docusigned by: Paris Peters 8BC2F912F6D467...

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 34

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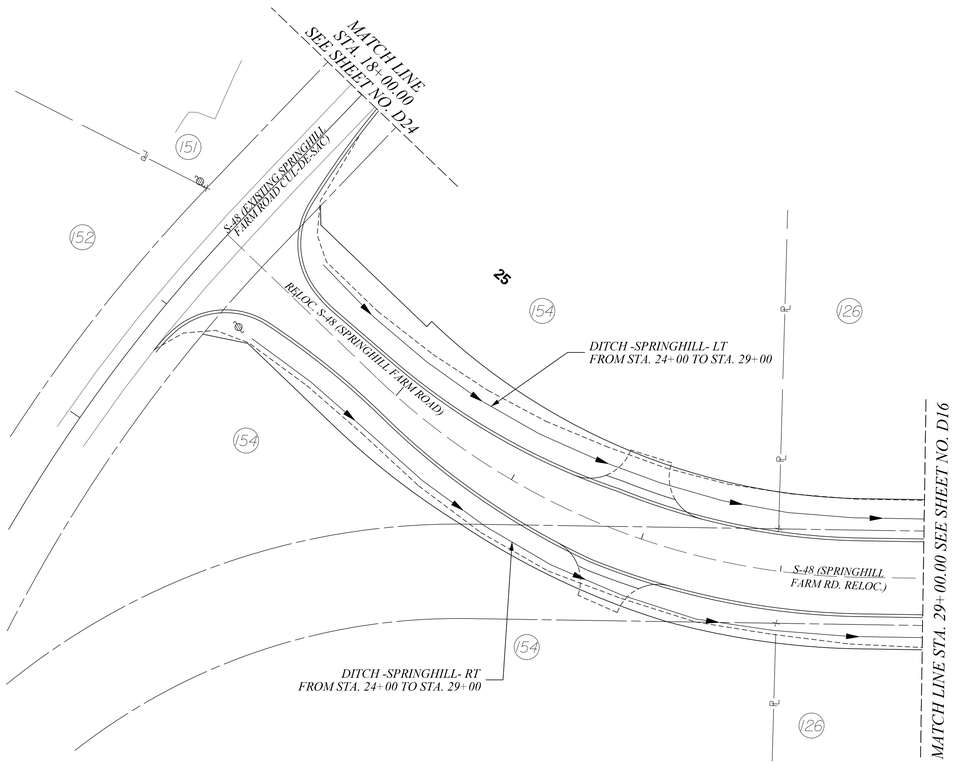
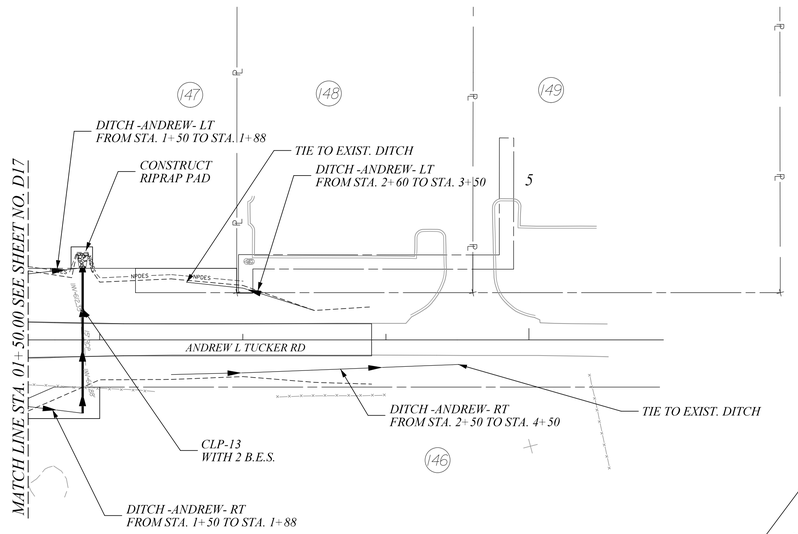
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-48 S-328	D23





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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA
STV INCORPORATED
No. C03318
CERTIFICATE OF AUTHORIZATION

Registered
SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 21220
11/1/2023
MARY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 35

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-48 S-328	D23A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Open	CLP-13	18	1	102.0	2.50	-	B.E.S.	1+88.00	613.89	-	B.E.S.	1+88.00	611.35	3.56	4.20	-	10	-	-	III	-	16ga	-

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — 12/4/2023 — PARIS PETERS

Docusigned by: Paris Peters 8BC2F9312F6D467...

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 36

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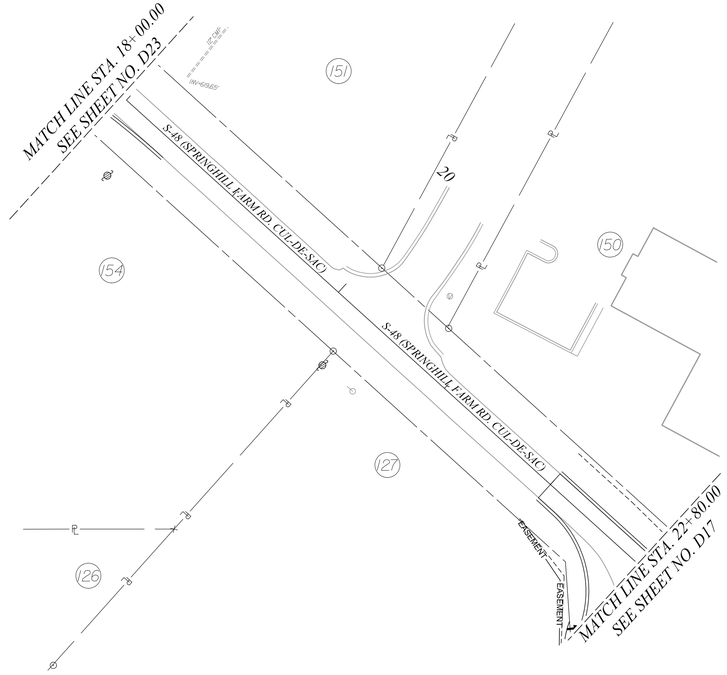
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	S-48	D24



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scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA No. 21220 PARIS PETERS 10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 37

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-48	D24A

Smooth																							
x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER — No. 21220 — 12/14/2023 — PARIS PETERS

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 38

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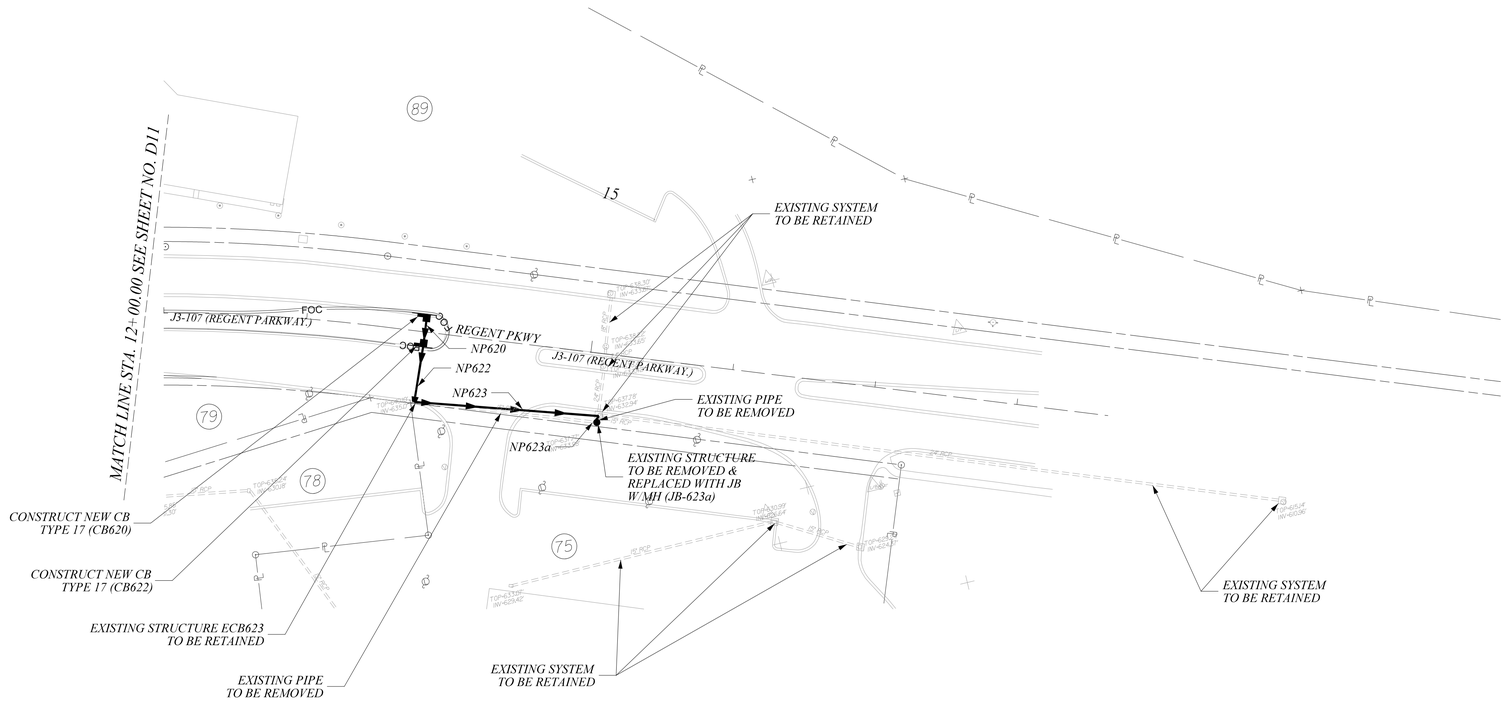
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	J3-107	D25



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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03316 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 39

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	J3-107	D25A

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-620	18	1	13.30	0.75	CB-620	C.B. TYPE 17	13+80.45	637.07	CB-622	C.B. TYPE 17	13+80.45	636.94	3.00	3.00	-	10	-	-	III	-	16ga	-
Closed	NP-622	18	1	39.77	4.64	CB-622	C.B. TYPE 17	13+80.45	636.94	ECB-623	EX.CATCH BSN	13+81.67	635.00	3.00	3.60	-	10	-	-	III	-	16ga	-
Closed	NP-623	18	1	129.40	1.59	ECB-623	EX.CATCH BSN	13+81.67	635.00	Outfall-11	OP	15+10.93	632.94	3.34	3.60	-	10	-	-	III	-	16ga	-
Closed	NP-623a	18	1	3.26	6.00	JB-623a	M.H.	15+10.02	633.25	Outfall-11	OP	15+10.93	632.94	3.02	3.34	-	10	-	-	III	-	16ga	-

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 12/4/2023 — PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 40

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	D31

NOTE:



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA No. 21220 11/14/2023 HOLLY PARIS PETERS

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1	JMB	7/16/20	TR 104: ADDED OUTFALL PIPE AND RIP RAP PAD

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 41

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	US 21 SC 51	D3IA

Smooth

x	x	Geometry				Upstream				Downstream				Fill Height		Min Field	Joint	Smooth Wall Options					
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Node	Node	Node	Link Invert	Node	Node	Node	Link Invert	Min	Max	SPT "N"	Pressure	HDPE	Built	RCP	Built	SRAP	Built
x	x	(in)	Barrels	(ft)	(%)		Description	Station	(ft)		Description	Station	(ft)	(ft)	(ft)	below invert	(psi)	Type	✓	Highest Class	✓	Thickest Gage	✓
Closed	NP-903a	36	1	50.33	5.56	MH-805a	M.H.	124+66.18	610.14	MH-805b	M.H.	124+29.87	607.14	1.86	8.86	-	10	-	-	III	-	16ga	-
Closed	NP-903b	36	1	52.93	0.97	MH-805b	M.H.	124+29.87	604.53	Outlet-7	HEADWALL	123+89.32	604.00	1.00	4.47	-	10	-	-	III	-	16ga	-

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1	JMB	7/16/20	TR 104: ADDED OUTFALL PIPE AND RIP RAP PAD

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 7/14/2023 — PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

DRAINAGE PLANS

SCALE RTE. US 21 DWG. NO. 42

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC1

GENERAL NOTES (APPLY TO ALL CONSTRUCTION STAGES):

1. ALL WORK AND MATERIALS SHALL CONFORM WITH THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION,SCDOT STANDARD DRAWINGS,SCDOT PROCEDURES & GUIDELINES FOR WORK AND HIGHWAYS,AND OTHER APPLICABLE SCDOT DOCUMENTS,LATEST EDITIONS.
2. APPROPRIATE CHANNELIZING DEVICES SHALL BE MAINTAINED DURING CONSTRUCTION TO SEPARATE WORK FROM TRAFFIC.
3. ALL EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED,COVERED,OR RELOCATED.PROPOSED TEMPORARY PAVEMENT MARKINGS SHALL TIE TO EXISTING MARKINGS.
4. CONTRACTOR SHALL MAINTAIN SIGNAL OPERATION AT ALL SIGNALIZED INTERSECTIONS AS NOTED IN THE PLANS AND AS DIRECTED BY THE RCE.
5. CONTRACTOR SHALL INSTALL/MAINTAIN STOP BARS AND STOP SIGNS OR YIELD BARS AND YIELD SIGNS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RCE.
6. CONTRACTOR SHALL INSTALL/MAINTAIN TEMPORARY PAVEMENT MARKING ARROWS PER SCDOT STANDARD DRAWINGS AT ALL TURN LANES ONTO ROADWAYS WHERE DIRECTED BY THE RCE.
7. CONTRACTOR SHALL MAINTAIN MINIMUM TEMPORARY LANE WIDTH IN ACCORDANCE WITH SCDOT WORK ZONE TRAFFIC CONTROL UNLESS OTHERWISE APPROVED BY THE DEPARTMENT.
8. CONTRACTOR SHALL APPLY TEMPORARY 4"WHITE EDGE LINES WHEN THERE IS NO EXISTING OR NEW CURB & GUTTER PRESENT DURING TRAFFIC CONTROL AND WHERE DIRECTED BY THE RCE.
9. THE COST OF OBLITERATING EXISTING STRIPING AND MAINTAINING TRAFFIC STRIPING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL.CONFLICTING STRIPING BETWEEN STAGES SHALL BE ERADICATED.
10. CONTRACTOR SHALL PLACE CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGNS AS SHOWN IN PLANS,OUTLINED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS AND WHERE DIRECTED BY THE RCE.
11. CONTRACTOR SHALL MAINTAIN POSITIVE SURFACE DRAINAGE DURING ALL CONSTRUCTION STAGES. CONTRACTOR SHALL APPLY BUILD-UP/LEVELING TO EXISTING ROADWAY AS PAVEMENT WIDENING OPERATION PROGRESS AS NEEDED AND AS DIRECTED BY THE RCE.
12. CONTRACTOR TO NOTIFY IN WRITING ALL BUSINESSES AND PROPERTY OWNERS OF CONSTRUCTION ACTIVITIES,DRIVEWAY MODIFICATIONS,AND OTHER ACCESS RESTRICTIONS 7 DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES ADJACENT TO THEIR PROPERTY.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND PRIVATE DRIVEWAYS IN ACCORDANCE WITH THE FOLLOWING:
    A. SITE WITH TWO OR MORE DRIVEWAYS - ONE DRIVEWAY TO BE MAINTAINED CONTINUOUSLY OPENED.NO DRIVEWAY TO BE CLOSED LONGER THAN 1 DAY.
    B. SITE WITH ONE DRIVEWAY - DRIVEWAY NOT TO BE CLOSED FOR A PERIOD LONGER THAN 1 HOUR.
14. CONTRACTOR SHALL INSTALL PERMANENT CONSTRUCTION SIGNING PER SCDOT STANDARD DRAWINGS 605-010-01 AS NOTED IN THE PLANS AND/OR AS DIRECTED BY THE RCE.SIGNING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
15. THE CONTRACTOR SHALL BE ON SITE AT ALL TIMES TO MAINTAIN TRAFFIC CONTROL ONCE CONSTRUCTION OPERATIONS BEGIN,UNTIL COMPLETE AND APPROVED BY THE RCE.
16. PORTABLE PLASTIC DRUMS SHALL BE PLACED IN ACCORDANCE WITH SCDOT STANDARDS AND AS DIRECTED BY THE RCE.DRUM SPACING MAY BE ADJUSTED/REDUCED NOT TO CONFLICT WITH DRIVEWAY ACCESS.TYPICAL DRUM SPACING IS AS FOLLOWS UNLESS NOTED:
    A. 50 FEET SPACING FOR EXISTING POSTED SPEED 40 MPH OR LESS
    B. 100 FEET SPACING FOR EXISTING POSTED SPEED 45 MPH OR GREATER
    C. 20 FEET SPACING & NO LESS THAN 4 EA FOR RADIUS RETURN
17. CONTRACTOR SHALL INSTALL TEMPORARY CONCRETE BARRIERS PER SCDOT STANDARD DRAWINGS SECTION 605-100 THRU 605-400.
18. TEMPORARY LANE CLOSURES SHALL CONFORM TO SCDOT STANDARD DRAWINGS SECTION 610-000.
19. SHOULDER CLOSURES SHALL CONFORM TO SCDOT STANDARD DRAWINGS SECTION 610-200.
20. CONTRACTOR SHALL INSTALL ADVANCE LANE CLOSURE SIGNING PER SCDOT STANDARD DRAWINGS 610-010-00 THRU 610-040-00.
21. CONTRACTOR SHALL INSTALL EXTENDED ROAD CLOSURE SIGNING PER SCDOT STANDARD DRAWING 610-510-00 & 610-515-00.
22. FOR CONSTRUCTION REQUIRING REMOVAL OF EXISTING PAVEMENT THE CONTRACTOR SHALL REMOVE AND REPLACE PAVEMENT WITHIN ONE CONTINUOUS OPERATION AS DIRECTED BY THE RCE.
23. CONTRACTOR SHALL CONSTRUCT CEMENT MODIFIED RECYCLED BASE PER SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-306,LASTEST EDITION AND/OR AS DIRECTED BY THE RCE.FOR CMRB-METHOD B THE CONTRACTOR WILL BE REQUIRED TO WAIT 2 TO 5 DAYS AFTER APPLICATION OF ASPHALT SURFACE TREATMENT (SINGLE) BEFORE THE HMA COURSE CAN BE PLACED.
24. CONTRACTOR SHALL FOLLOW LANE CLOSURE RESTRICTIONS PER SCDOT SUPPLEMENTAL SPECIFICATIONS "LANE CLOSURE RESTRICTION" LATEST EDITION. SCDOT "HOURLY RESTRICTION FOR LANE CLOSURES ON MULTILANE PRIMARY AND SECONDARY ROUTES" LATEST EDITION AND AS NOTED IN THE PROJECT TRAFFIC CONTROL SPECIAL PROVISION.THE CONTRACTOR IS ADVISED THAT THE LANE CLOSURE RESTRICTIONS WILL BE STRICTLY ENFORCED.SHOULD LANE CLOSURES REMAIN IN PLACE OR NOT BE COMPLETELY REMOVED BY THE TIME SPECIFIED,A PENALTY WILL BE ASSESSED AT THE RATE OF $500.00 PER HOUR.
25. CONTRACTOR SHALL NOTIFY THE COUNTY AND DEPARTMENT A MINIMUM 30 DAYS BEFORE IMPLEMENTING ANY ROADWAY CLOSURES IN ORDER TO PROVIDE AMPLE NOTIFICATION TO THE ELECTED OFFICIALS,PUBLIC AND EMERGENCY SERVICES.
26. THE CONTRACTOR MAY REVISE THE WORK ZONE TRAFFIC CONTROL WITH THE APPROVAL OF THE RCE WITH NO ADDITIONAL COST TO YORK COUNTY OR SCDOT.

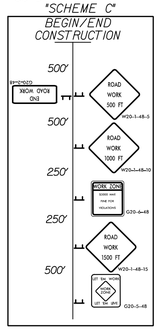
CULVERT CROSSLINE INSTALLATION NOTES:

1. CONTRACTOR TO USE TRENCHLESS PIPE INSTALLATION METHOD TO INSTALL NP-043,CLP-4 AND NP-812.CONTRACTOR TO INSTALL PIPES FROM LEFT TO RIGHT UNDER THE EXISTING ROADWAY PRIOR TO WIDENING AS NOTED IN STAGE 1 NOTES UNLESS APPROVED BY THE RCE.ALL OTHER PIPE CULVERT INSTALLATION SHALL BE CONSTRUCTED UTILIZING NIGHTTIME LANE CLOSURES UNLESS APPROVED BY THE RCE.
2. SHOULD THE CONTRACTOR CHOOSE AN ALTERNATE MEANS OF PIPE CULVERT INSTALLATION WITH THE APPROVAL OF THE RCE.ALL ADDITIONAL WORK AND/OR MATERIALS REQUIRED TO COMPLETE THE INSTALLATION SHALL BE AT NO ADDITIONAL COST TO YORK COUNTY OR SCDOT AND SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM TRAFFIC CONTROL PAY ITEM.

INSTALL SCHEME C PERMANENT CONSTRUCTION SIGNING ALONG THE FOLLOWING ROADS:

- US 21(HWY 21 BYP)(x2)
- S-1426 (GOLD HILL RD)
- US 21 BUS (OLD NATION RD)
- SC 51(HWY 51)

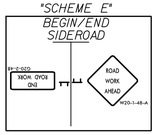
"SCHEME C"



INSTALL SCHEME E PERMANENT CONSTRUCTION SIGNING ALONG THE FOLLOWING ROADS:

- SC 460 (SPRINGFIELD PKWY)(x2)
- MERCANTILE PLACE
- CRESCENT MOON DRIVE
- S-1134 (LAKEVIEW DR)
- S-1467 (AMELIA DR)
- S-1469 (FERN FOREST CT)
- S-1133 (LAKESHORE DR)
- S-1470 (FOREST DR)
- S-1109 (FOREST WAY DR)
- EMBASSY DRIVE
- DREWSKY LANE
- ED THOMPSON ROAD
- HERITAGE BLVD
- S-676 (GARRISON FARM RD)
- BAXTER LANE

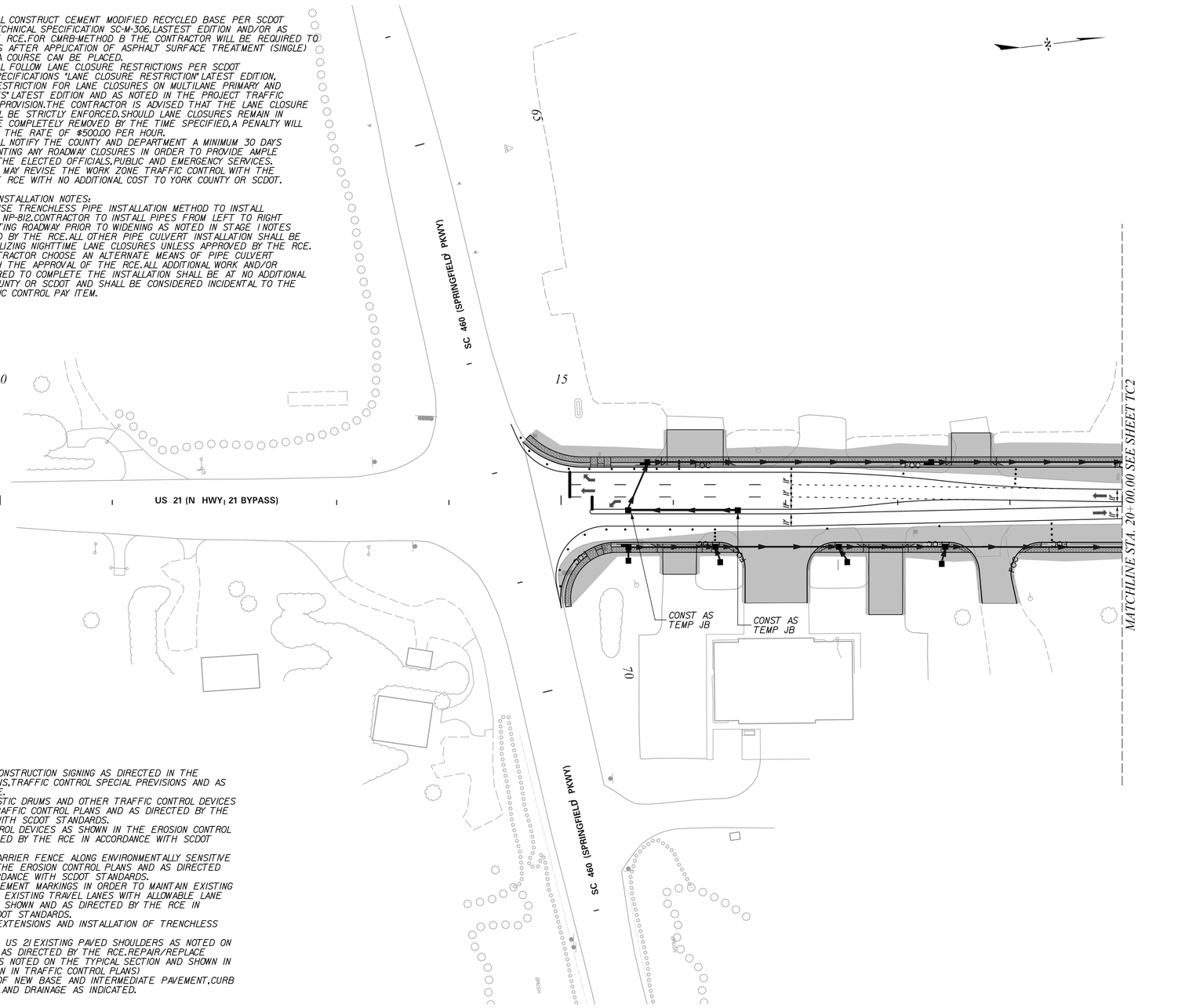
"SCHEME E"



- CENTRAL CAROLINAS PKWY
- REGENT DRIVEWAY
- LAKES BLVD
- S-641(FLINT HILL RD)(x2)
- RETAIL DRIVE
- TERRYS ROAD
- S-48 (SPRINGHILL FARM RD)(x2)
- I-77 EXIT 90 NB OFF RAMP
- CENTRE CIRCLE (x2)
- S-328 (ANDREW L TUCKER RD)

STAGE 1 NOTES:

1. INSTALL PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL PLANS,TRAFFIC CONTROL SPECIAL PREVISIONS AND AS DIRECTED BY THE RCE.
2. PLACE PORTABLE PLASTIC DRUMS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
3. INSTALL EROSION CONTROL DEVICES AS SHOWN IN THE EROSION CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
4. INSTALL TEMPORARY BARRIER FENCE ALONG ENVIRONMENTALLY SENSITIVE AREAS AS SHOWN IN THE EROSION CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
5. APPLY TEMPORARY PAVEMENT MARKINGS IN ORDER TO MAINTAIN EXISTING TRAFFIC PATTERNS IN EXISTING TRAVEL LANES WITH ALLOWABLE LANE REDUCTION WIDTHS AS SHOWN AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
6. CONSTRUCT CULVERT EXTENSIONS AND INSTALLATION OF TRENCHLESS PIPES.
7. REMOVE AND REPLACE US 21 EXISTING PAVED SHOULDERS AS NOTED ON THE TYPICAL SECTION AS DIRECTED BY THE RCE.REPAIR/REPLACE EXISTING PAVEMENT AS NOTED ON THE TYPICAL SECTION AND SHOWN IN THE PLANS.(NOT SHOWN IN TRAFFIC CONTROL PLANS)
8. BEGIN CONSTRUCTION OF NEW BASE AND INTERMEDIATE PAVEMENT,CURB AND GUTTER,SIDEWALK,AND DRAINAGE AS INDICATED.



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

DocuSigned by: CHRISTOPHER E. KRISTEN — REGISTERED PROFESSIONAL ENGINEER — No. 22780 — 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC1

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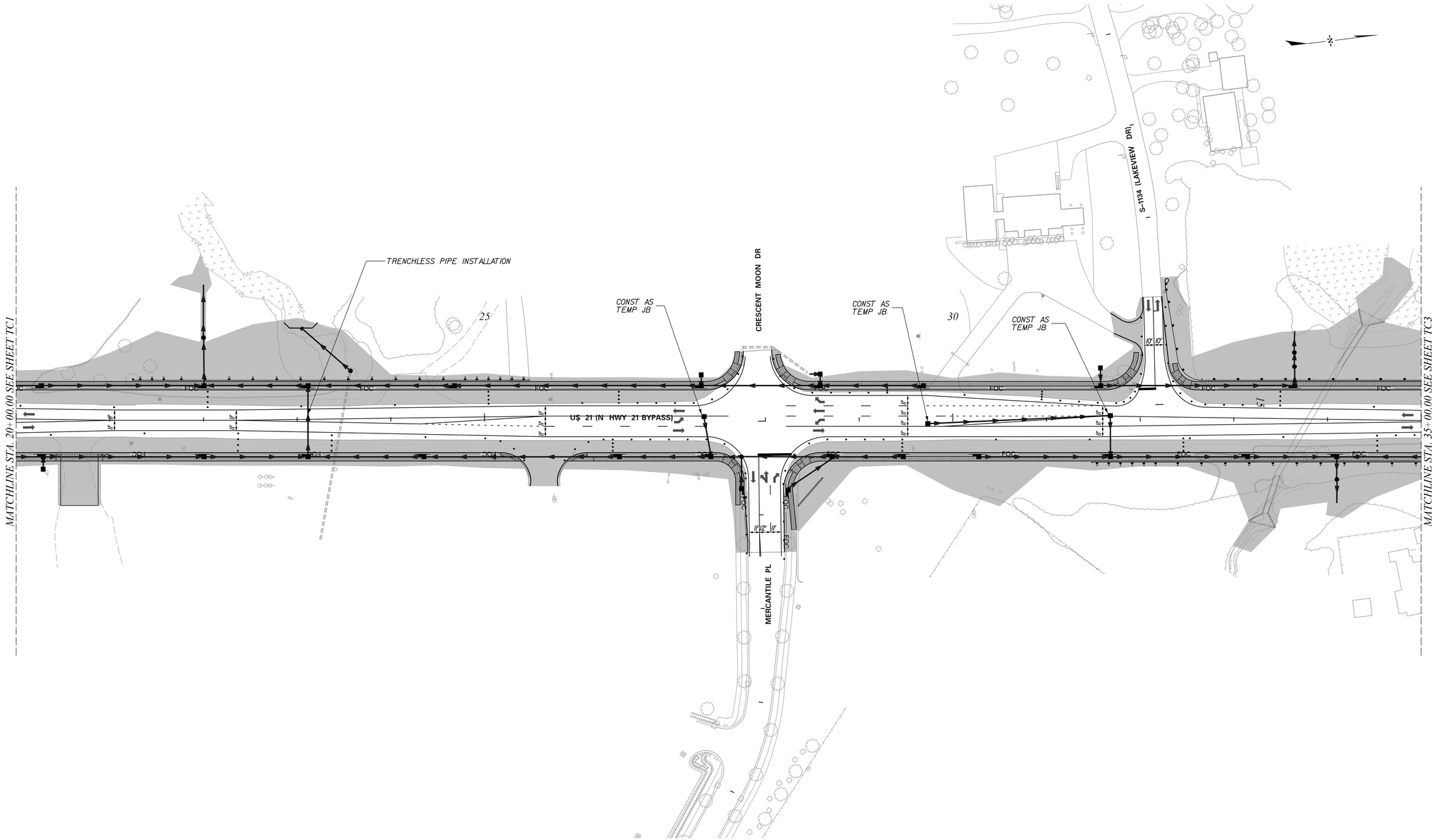
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC2



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN 3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC2

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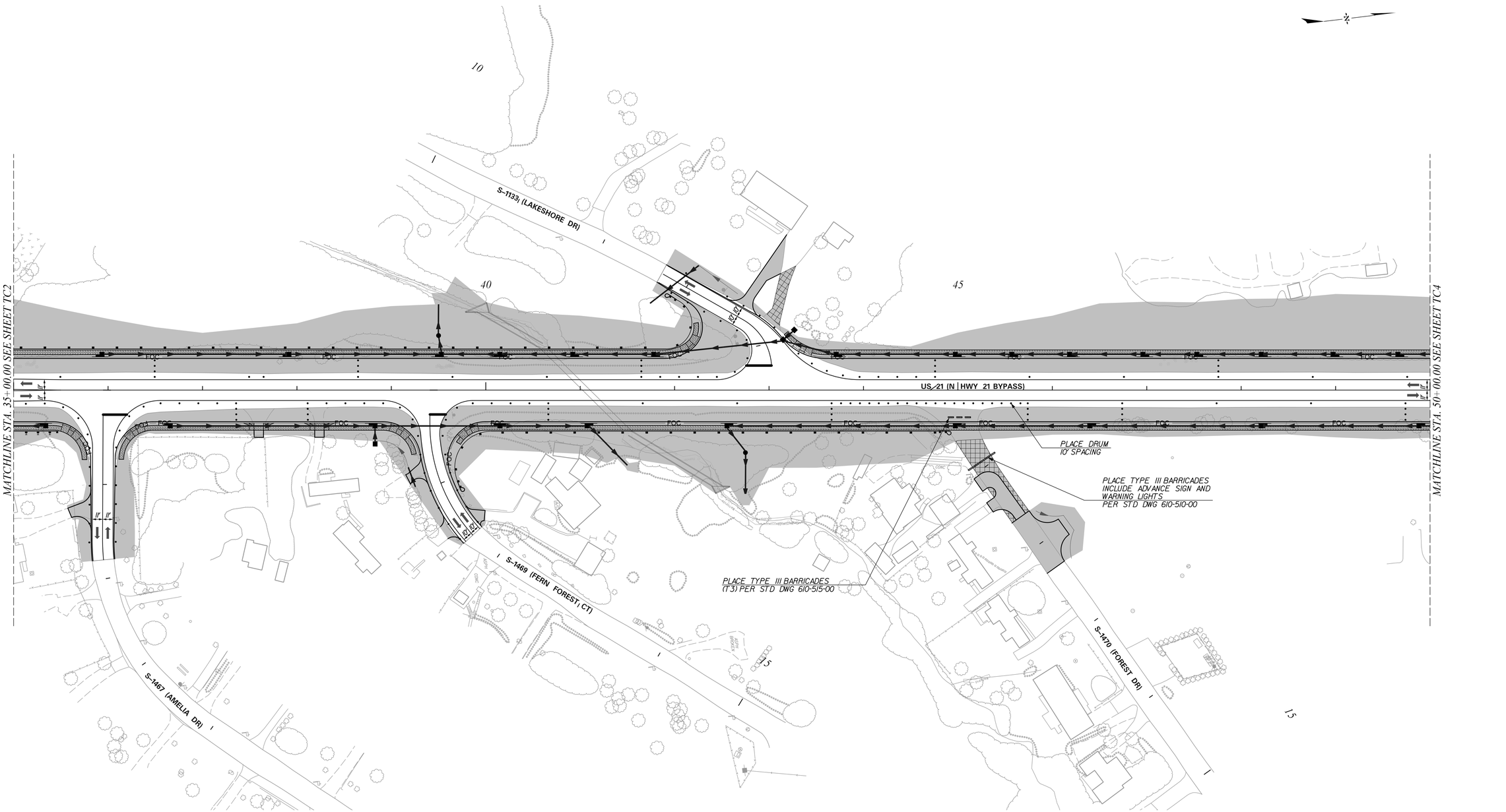
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC3



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. MARTIN
11/1/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC3

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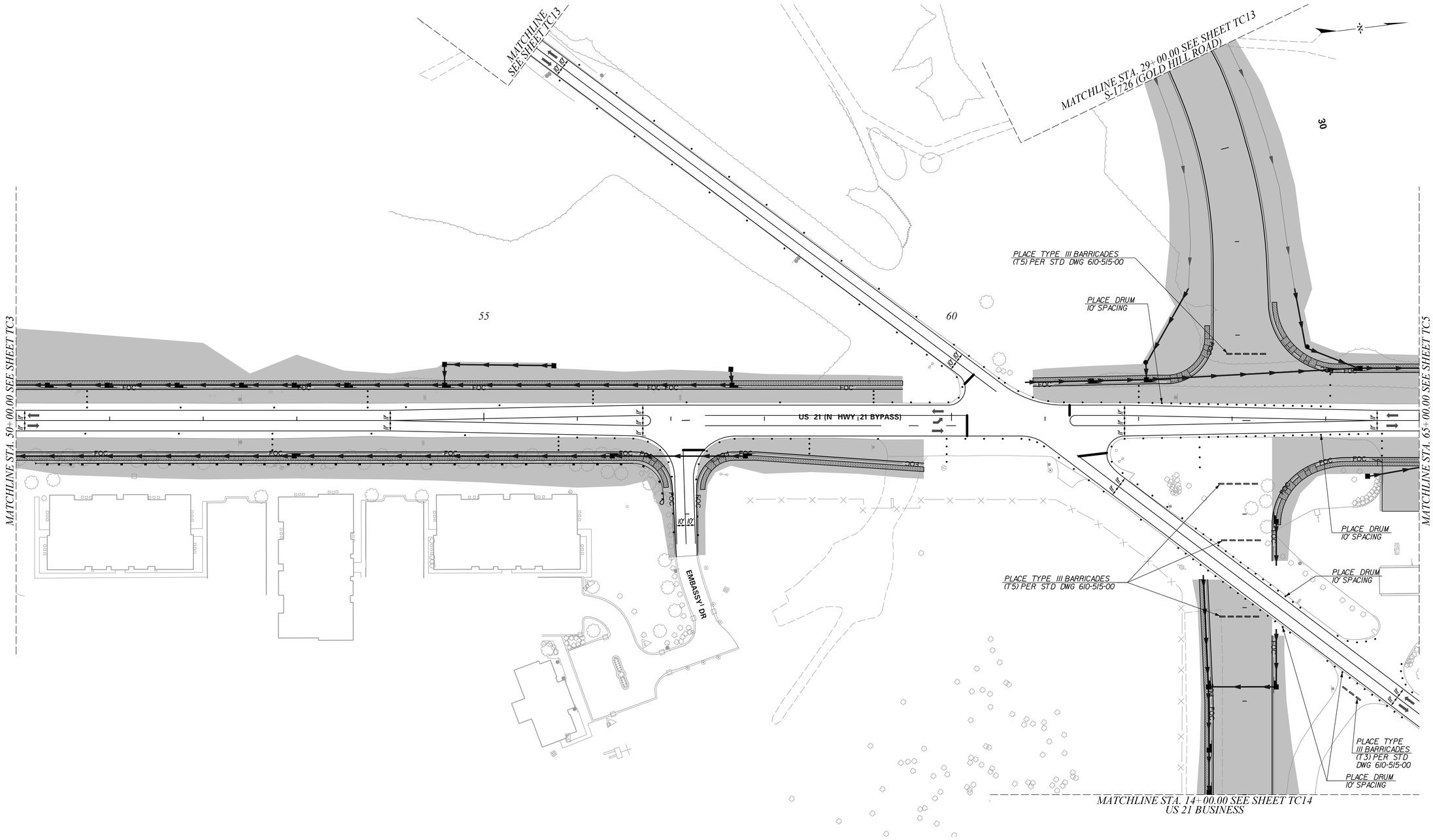
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC4



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC4

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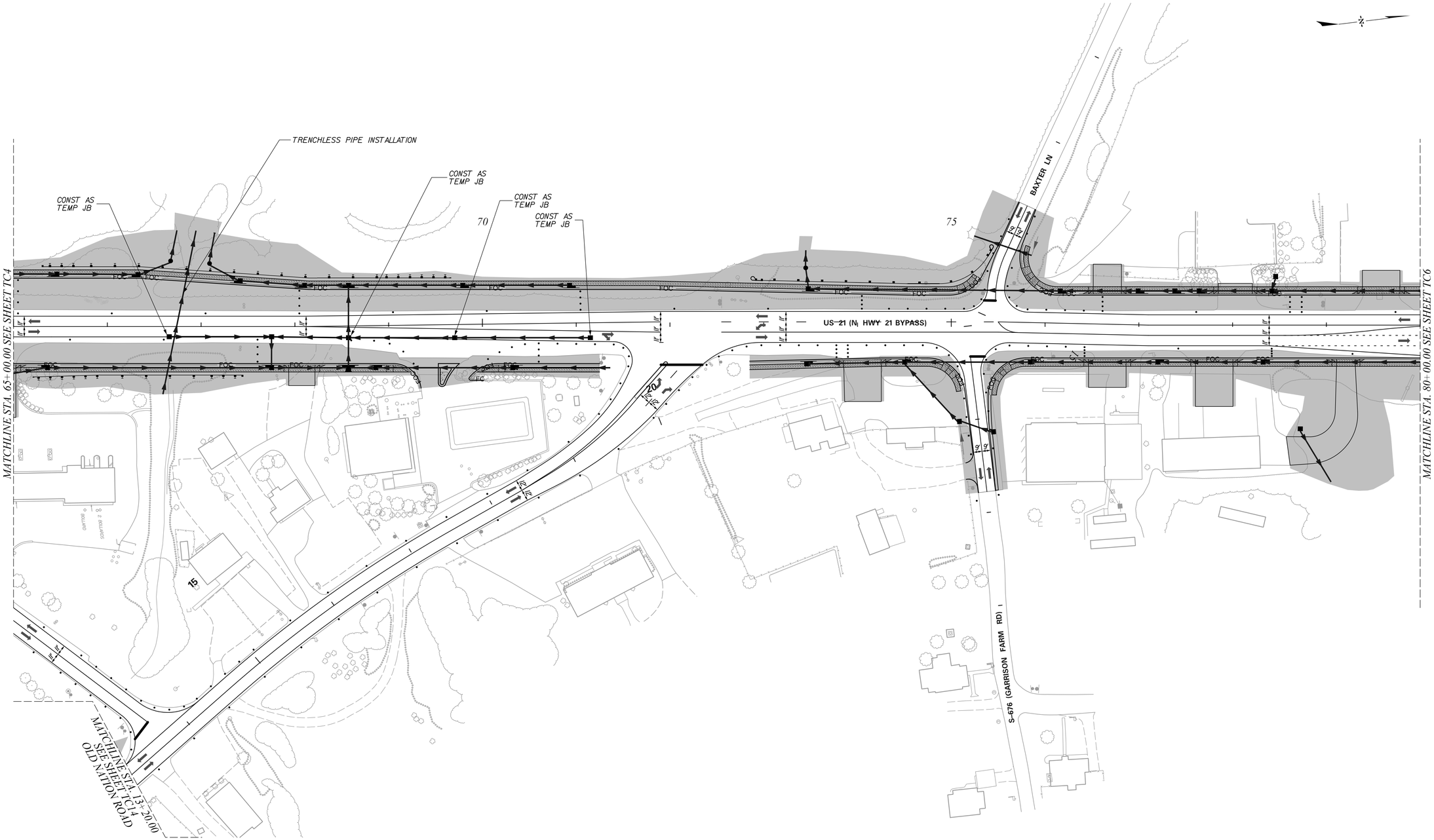
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC5



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. MARTEN
10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC5

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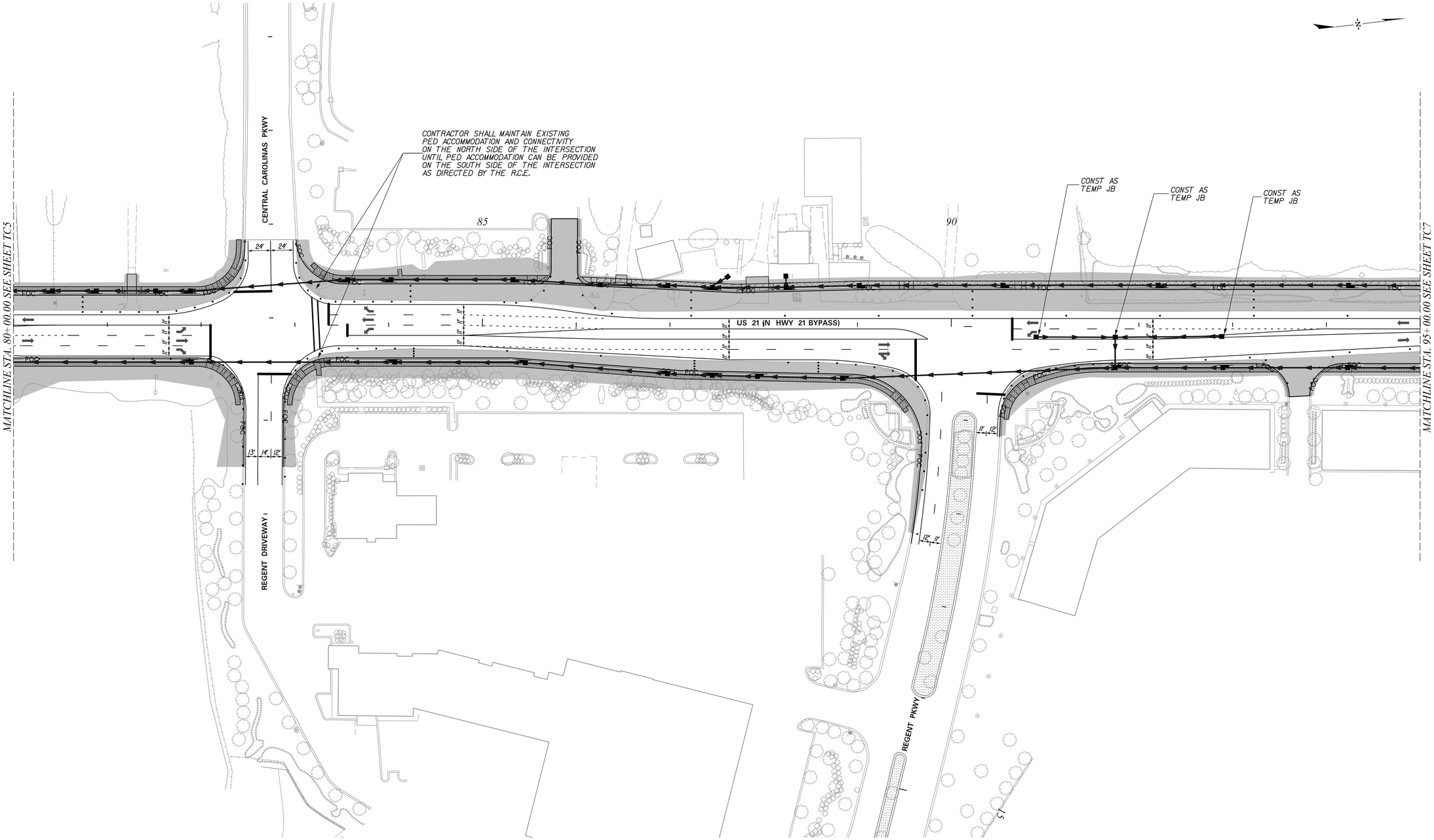

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. MARTIN
10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC6

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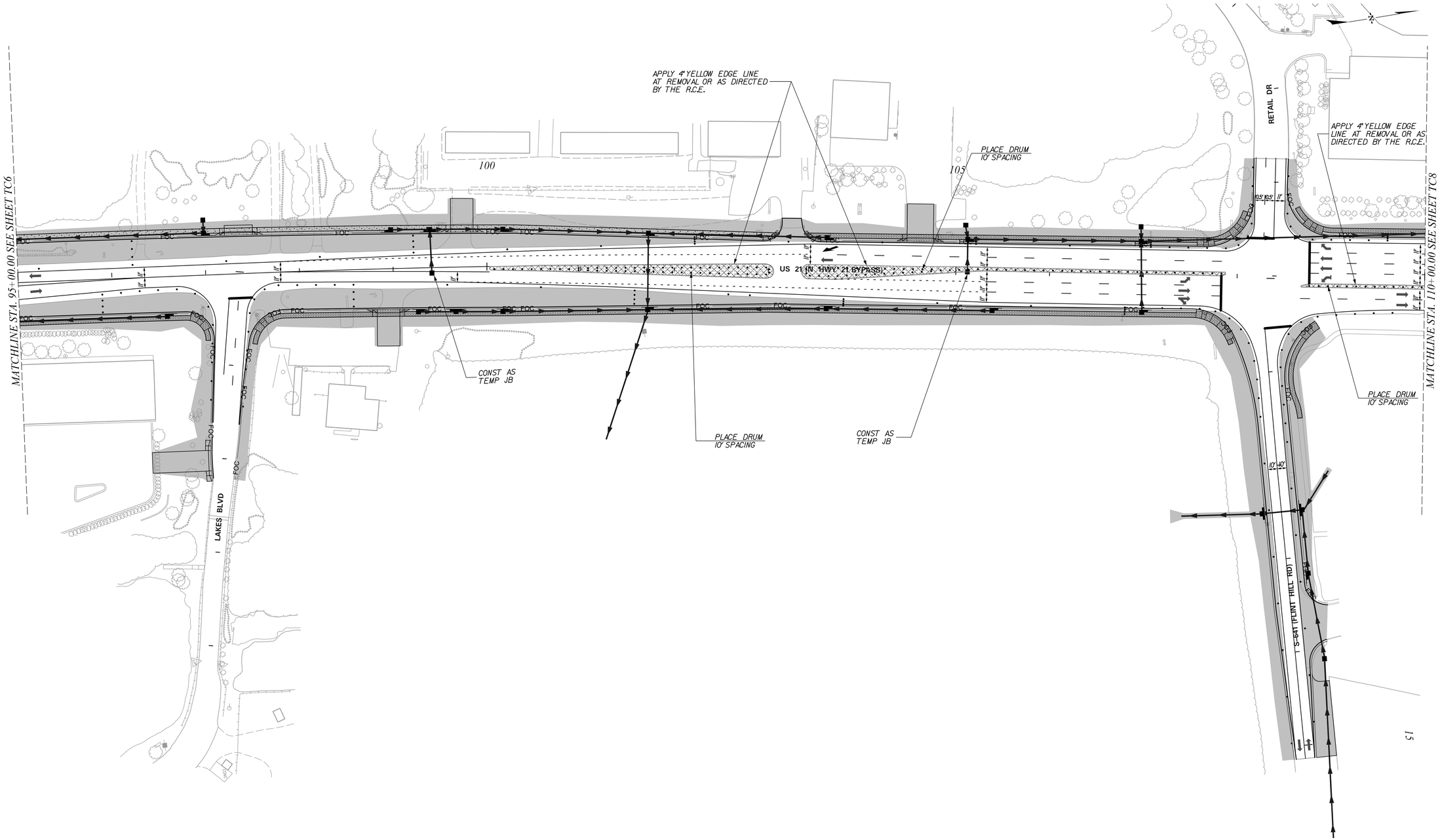
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC7



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

DocuSigned by: CHRISTOPHER E. CARLSTEN No. 22780 REGISTERED PROFESSIONAL ENGINEER 10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC7

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC8

115 120 US 21 NP-812 125

MATCHLINE STA. 114+30.00

MATCHLINE STA. 128+30.00

MATCHLINE SEE INSERT A THIS SHEET

US 21 (N HWY 21 BYPASS)

TRENCHLESS PIPE INSTALLATION

INSTALL TEMPORARY CONCRETE BARRIER

INSTALL PORTABLE IMPACT ATTENUATOR TEST LEVEL II

+30.20 +50.00 10d TAPER +90.00 +10.00

+75.00 10d TAPER +95.00 +34.99 +54.79

INSTALL PORTABLE IMPACT ATTENUATOR TEST LEVEL II

INSTALL TEMPORARY CONCRETE BARRIER

MATCHLINE STA. 110+00.00 SEE SHEET TC7

PLACE DRUM 10' SPACING

TERRYS RD

115

120

TRENCHLESS PIPE INSTALLATION SEE US 21 NP-812 INSERT FOR STAGING DETAILS

PLACE DRUM 10' SPACING

APPLY 4" YELLOW EDGE LINE AT REMOVAL OR AS DIRECTED BY THE R.C.E.

US 21 (N HWY 21 BYPASS)

APPLY 4" YELLOW EDGE LINE AT REMOVAL OR AS DIRECTED BY THE R.C.E. PLACE YELLOW FLEXIBLE DELINEATOR @ 5' SPACING AS DIRECTED BY THE R.C.E

315

310

MATCHLINE STA. 125+00.00 SEE SHEET TC9

MATCHLINE STA. 306+80.00 SEE SHEET TC10 OLD SC 51

MATCHLINE A SEE THIS SHEET

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER CHRISTOPHER E. CARSTEN No. 22780

10/31/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC8

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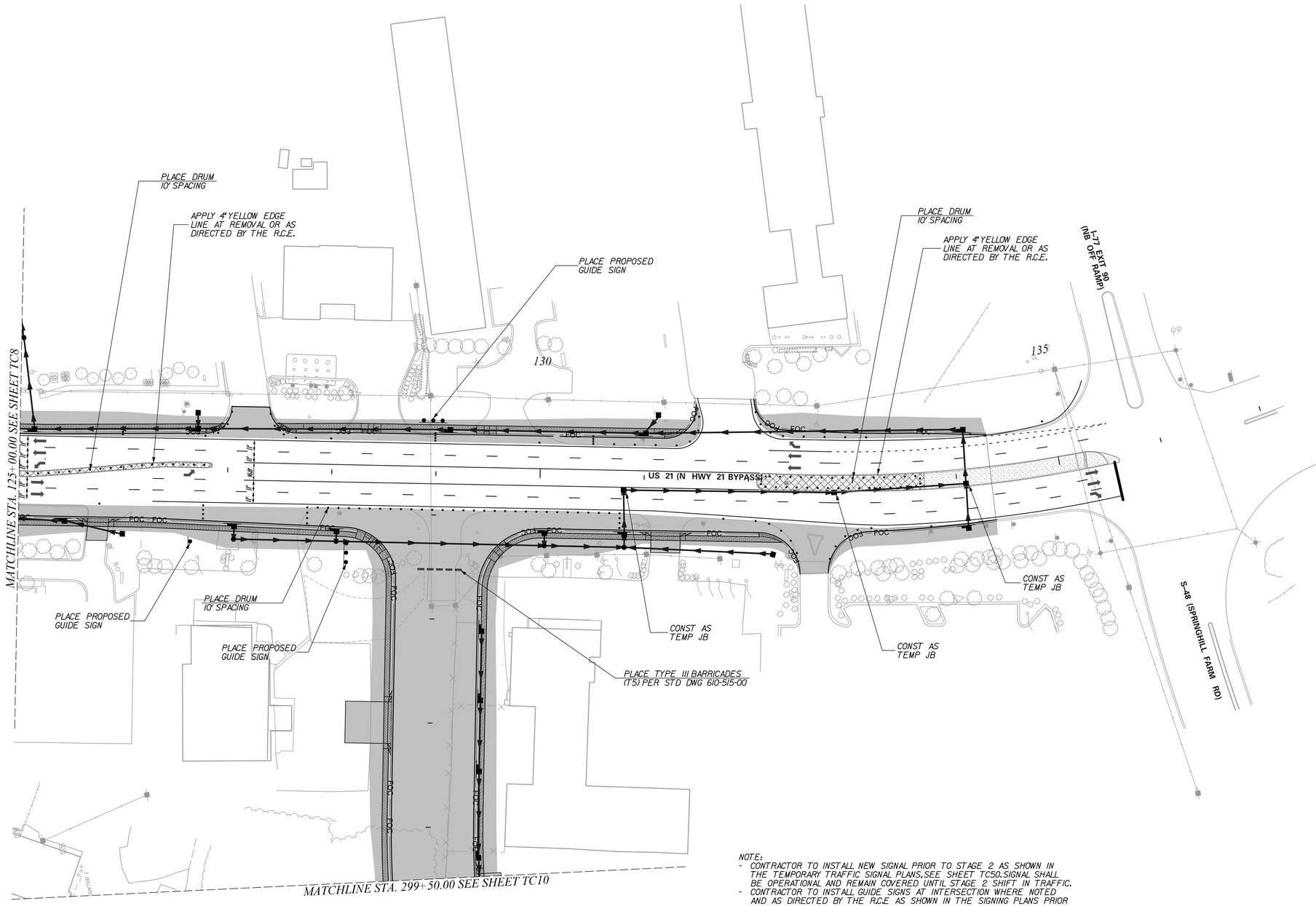
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC9



NOTE:
- CONTRACTOR TO INSTALL NEW SIGNAL PRIOR TO STAGE 2 AS SHOWN IN THE TEMPORARY TRAFFIC SIGNAL PLANS.SEE SHEET TC50.SIGNAL SHALL BE OPERATIONAL AND REMAIN COVERED UNTIL STAGE 2 SHIFT IN TRAFFIC.
- CONTRACTOR TO INSTALL GUIDE SIGNS AT INTERSECTION WHERE NOTED AND AS DIRECTED BY THE R.C.E AS SHOWN IN THE SIGNING PLANS PRIOR TO STAGE 2.SIGNS SHALL REMAIN COVERED UNTIL STAGE 2 SHIFT IN TRAFFIC.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA REGISTERED No. 22780 CHRISTOPHER E. MARTIN 9/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC9

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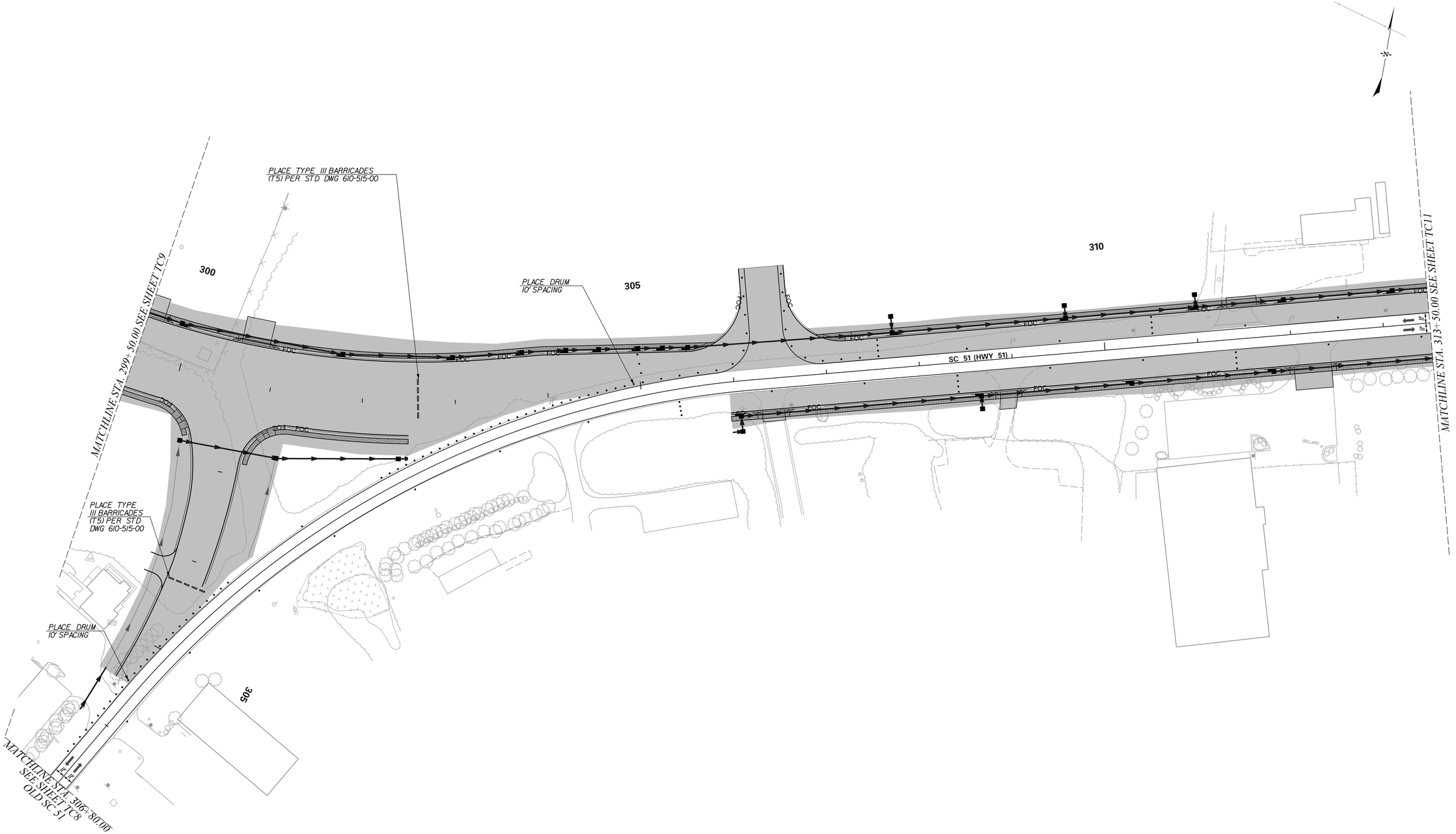
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC10



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER E. CARLSTEN — 10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC10

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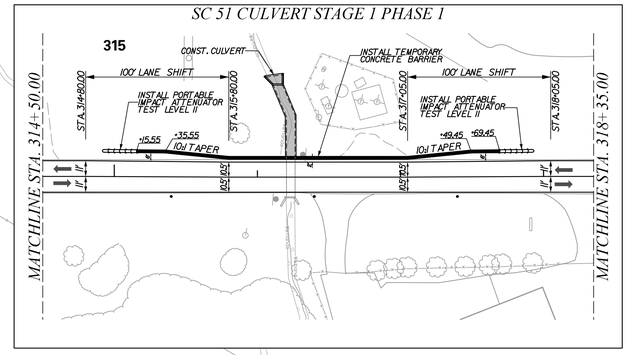
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC11



NOTE,
- CONTRACTOR TO INSTALL NEW SIGNAL PRIOR TO STAGE 2 AS SHOWN IN THE TEMPORARY TRAFFIC SIGNAL PLANS.SEE SHEET TC5I.SIGNAL SHALL BE OPERATIONAL AND REMAIN COVERED UNTIL STAGE 2 SHIFT IN TRAFFIC.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARSTEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC11

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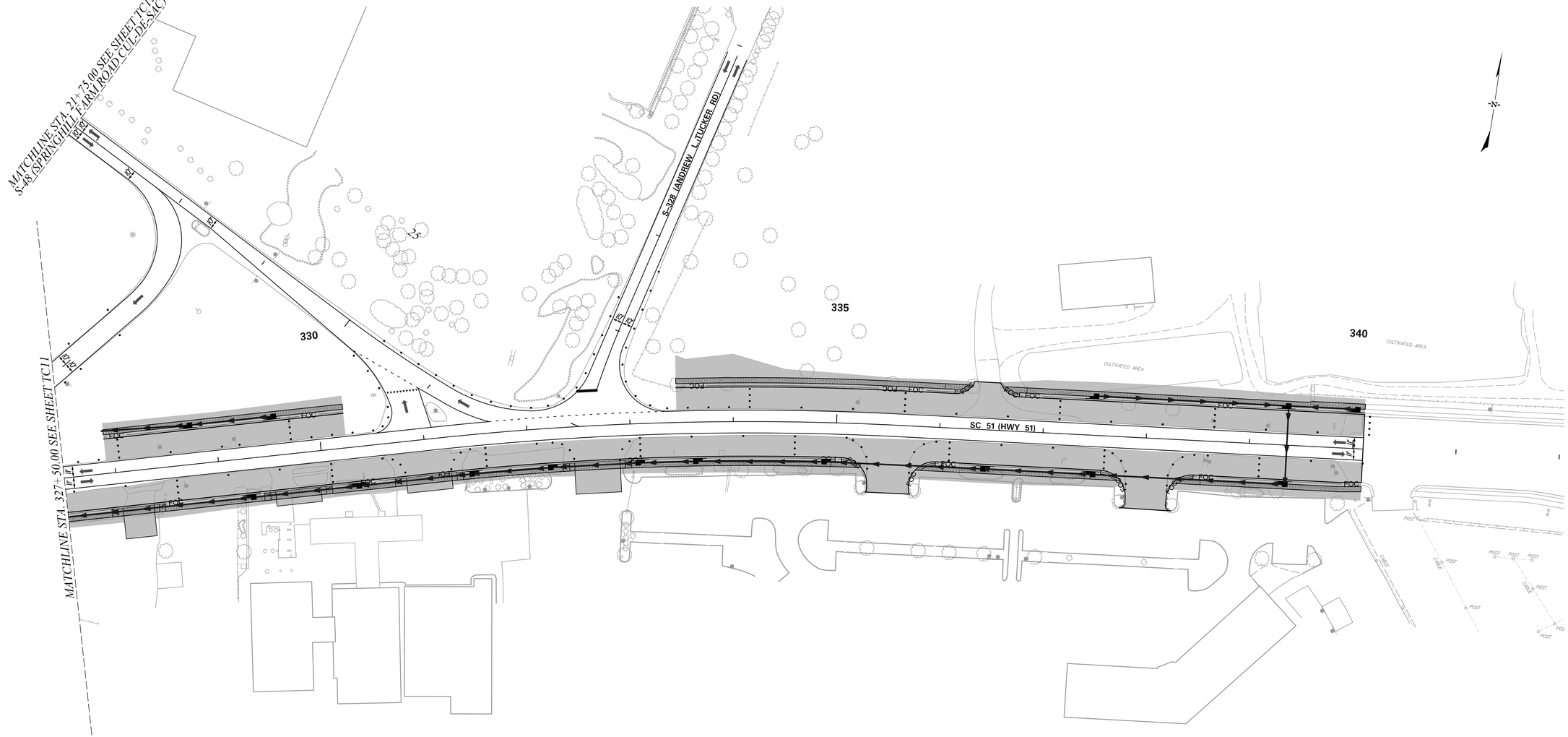
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC12



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

scale 50 0 50 100 feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. MARTIN — 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC12

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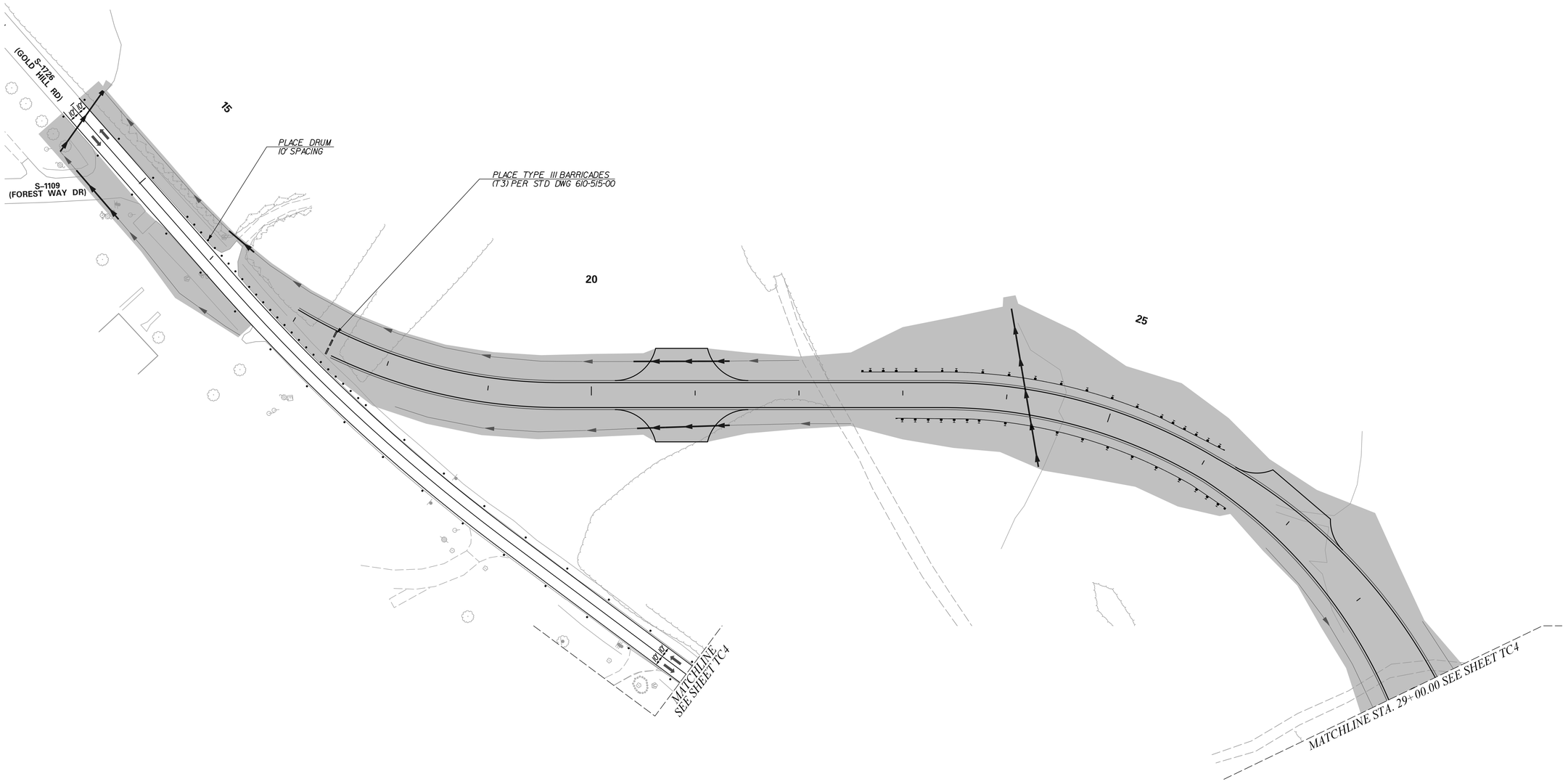
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC13



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA
STV INCORPORATED
No. C03318
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTEN
3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC13

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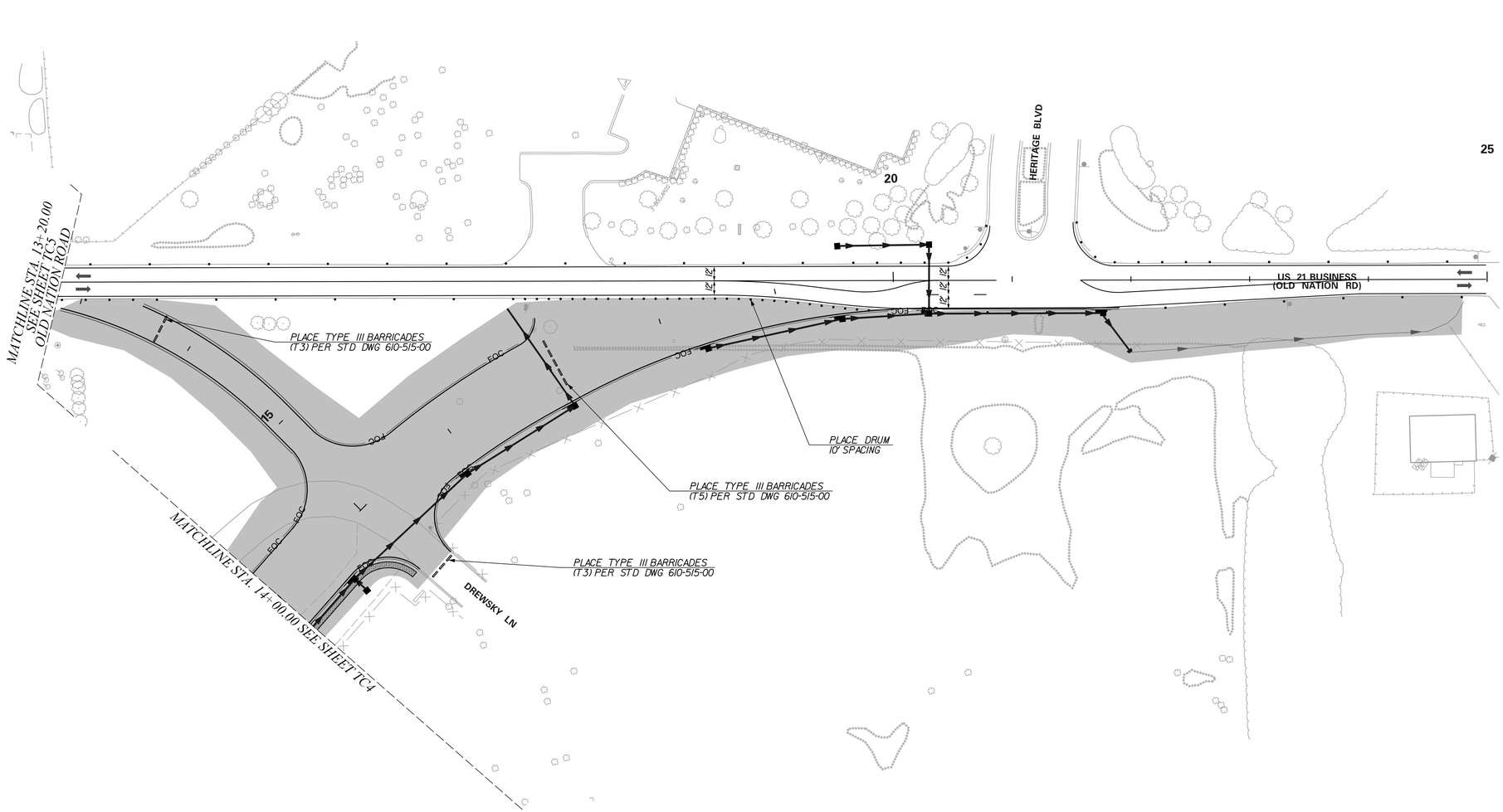
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC14



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSEN 3/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO.TC14

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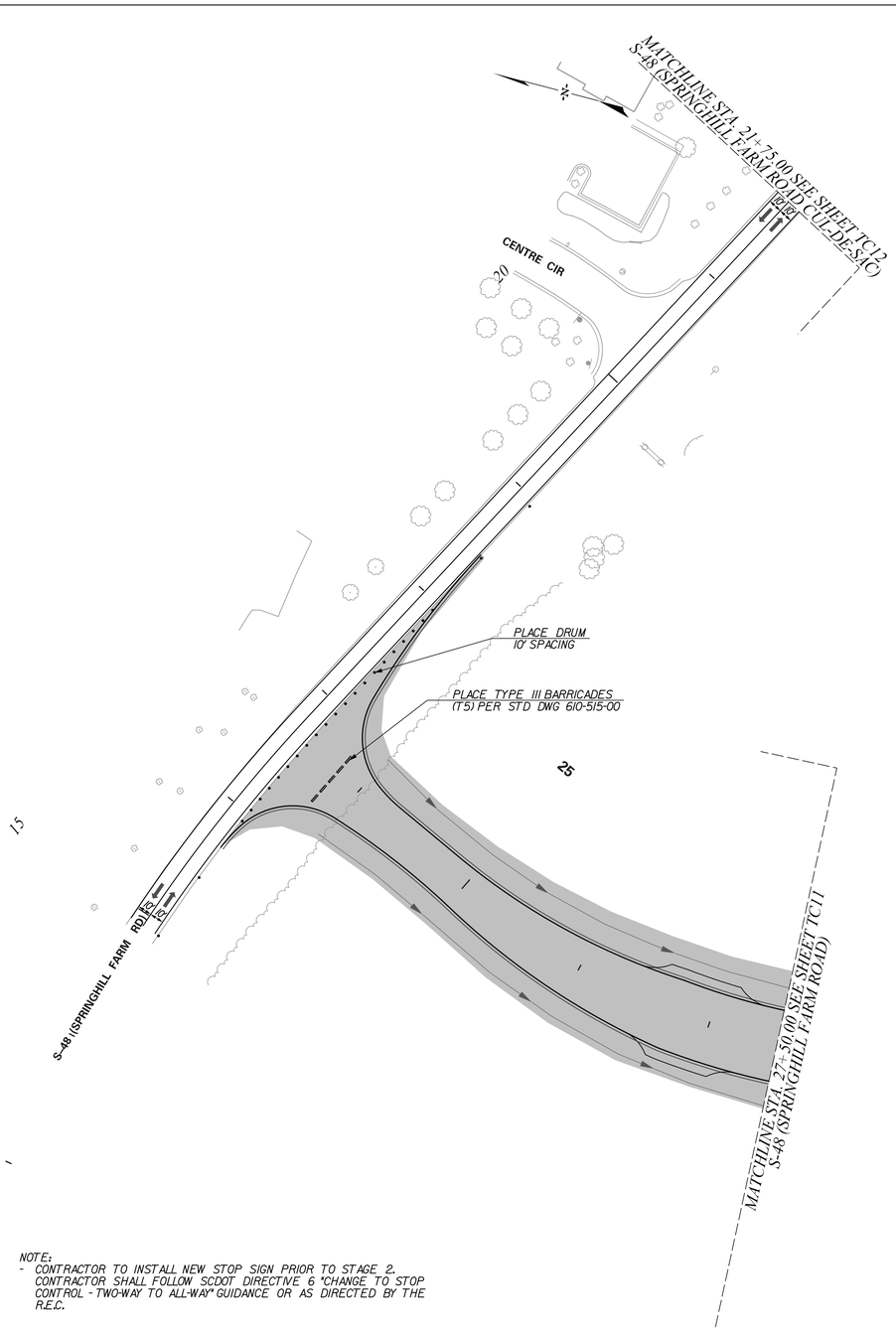
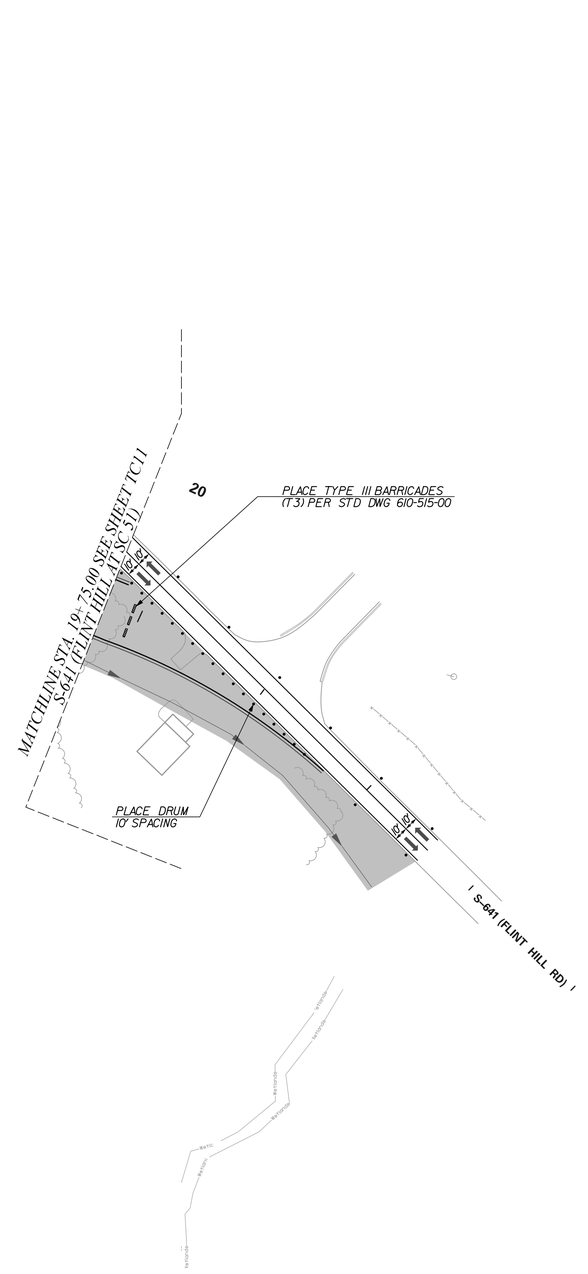
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC15





NOTE:
- CONTRACTOR TO INSTALL NEW STOP SIGN PRIOR TO STAGE 2.
CONTRACTOR SHALL FOLLOW SCDOT DIRECTIVE 6 "CHANGE TO STOP CONTROL - TWO-WAY TO ALL-WAY" GUIDANCE OR AS DIRECTED BY THE R.E.C.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA
STV INCORPORATED
No. C03318
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTEN
3/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"= 50' RTE. US 21 DWG. NO. TC15

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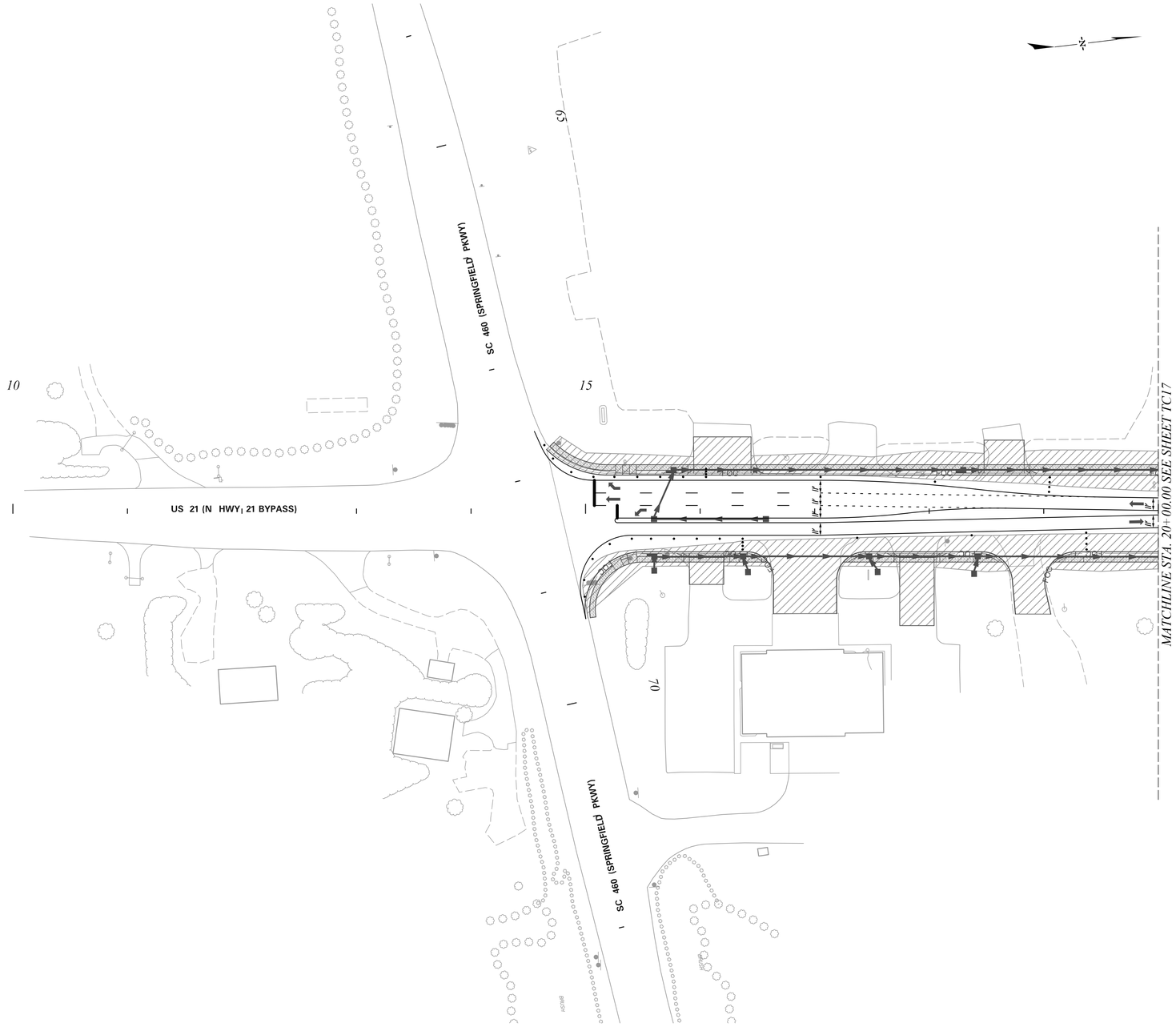
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC16

STAGE 2 NOTES:
1. MAINTAIN PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL PLANS,TRAFFIC CONTROL SPECIAL PREVISIONS AND AS DIRECTED BY THE RCE.
2. PLACE PORTABLE PLASTIC DRUMS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
3. MAINTAIN AND INSTALL EROSION CONTROL DEVICES AS SHOWN IN THE EROSION CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
4. MAINTAIN AND INSTALL TEMPORARY BARRIER FENCE ALONG ENVIRONMENTALLY SENSITIVE AREAS WERE DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
5. APPLY TEMPORARY PAVEMENT MARKINGS IN ORDER TO MAINTAIN OR SHIFT EXISTING TRAFFIC PATTERNS WITH ALLOWABLE LANE REDUCTION WIDTHS AS SHOWN AND AS DIRECTED BY THE RCE.
6. CONTINUE CONSTRUCTION OF NEW BASE AND INTERMEDIATE PAVEMENT, CURB AND GUTTER,SIDEWALK AND DRAINAGE AS INDICATED.



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND
- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. KRISTEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC16

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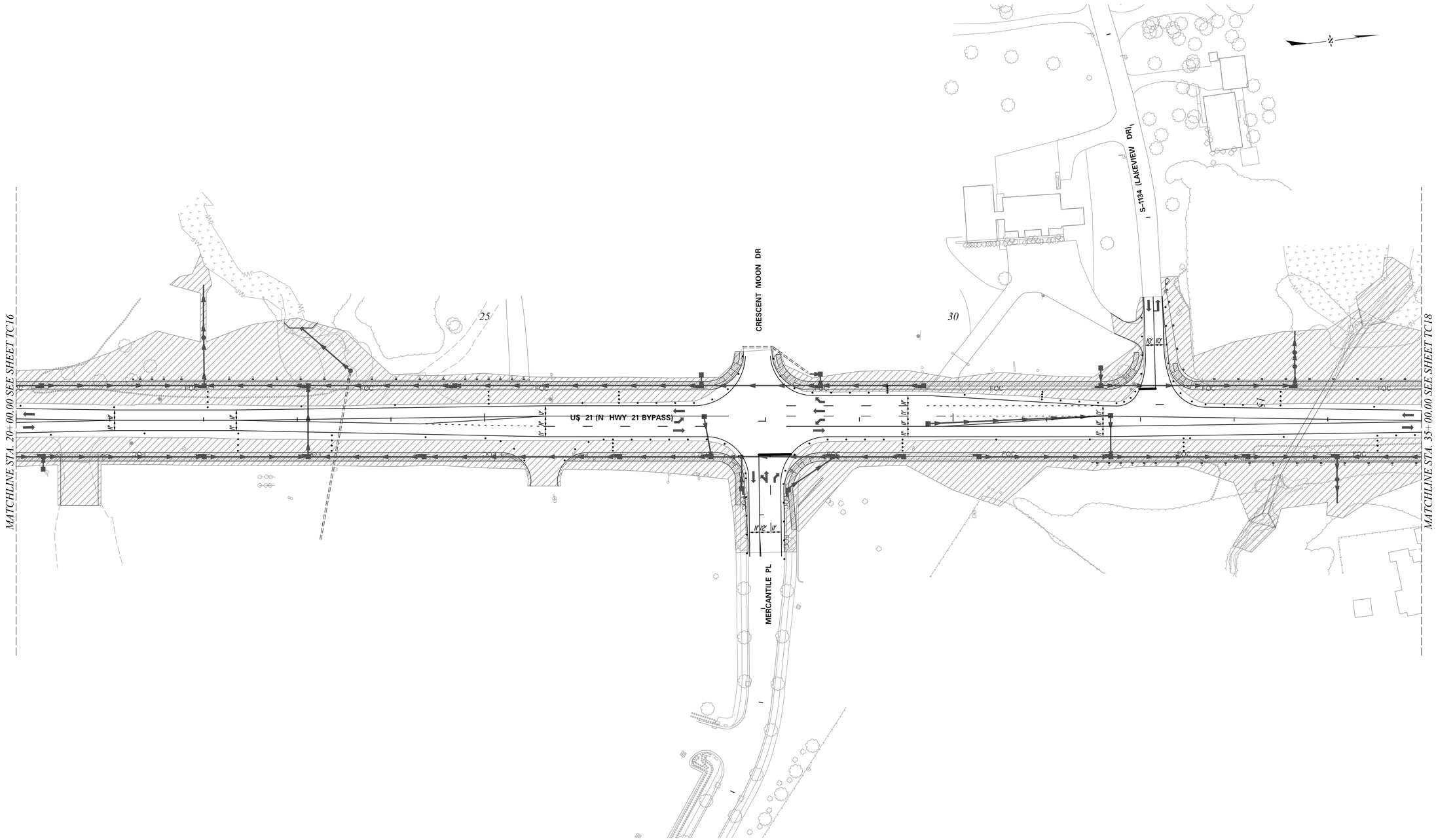
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC17


MATCHLINE STA. 20+00.00 SEE SHEET TC16
MATCHLINE STA. 35+00.00 SEE SHEET TC18
CRESCENT MOON DR
S-1134 (LAKEVIEW DR)
US 21 (N HWY 21 BYPASS)
MERCANTILE PL
25
30
15
10
10
11'
11'
11'
11'
FOC
FOC
FOC

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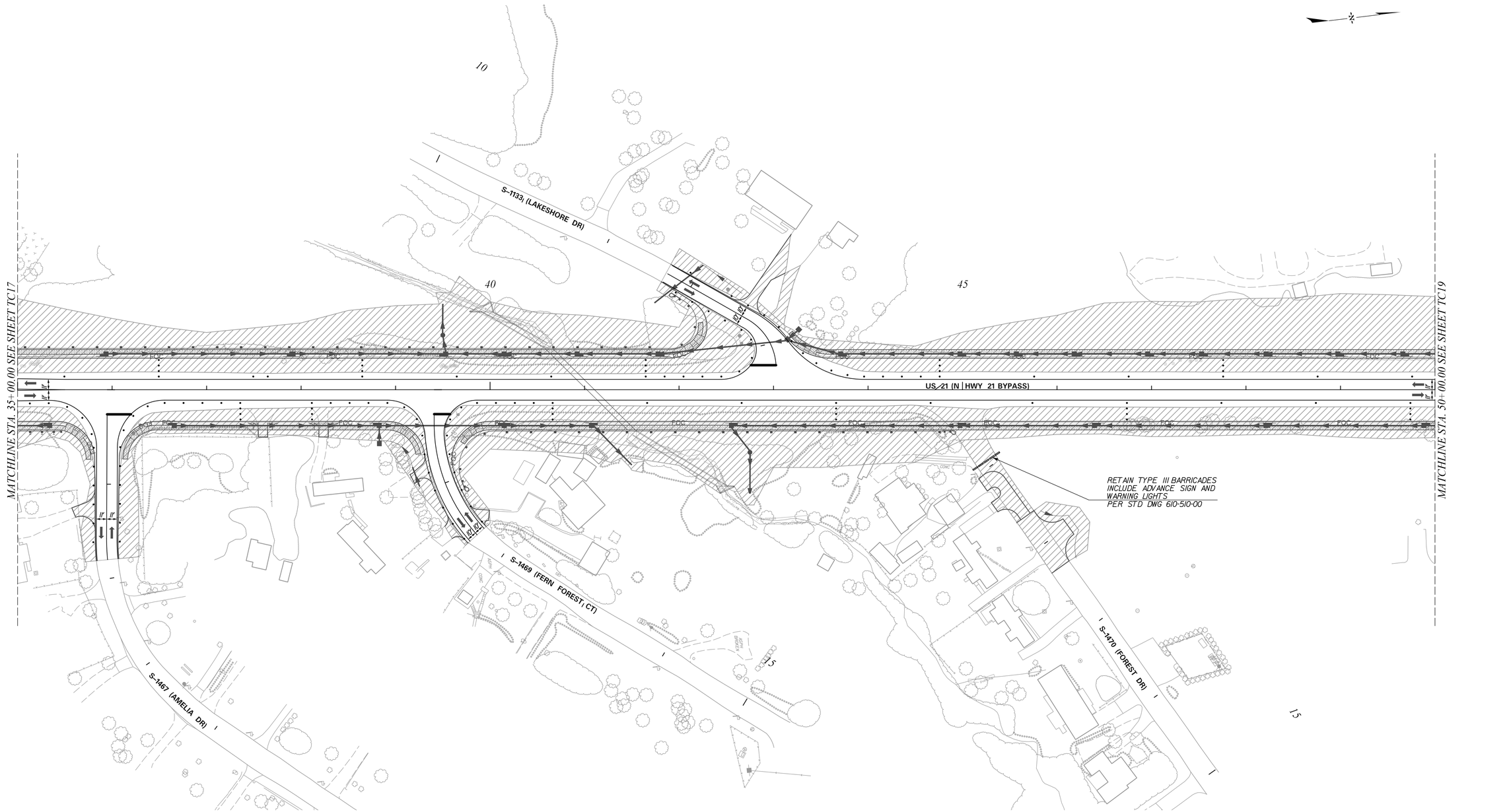
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC18



LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC18

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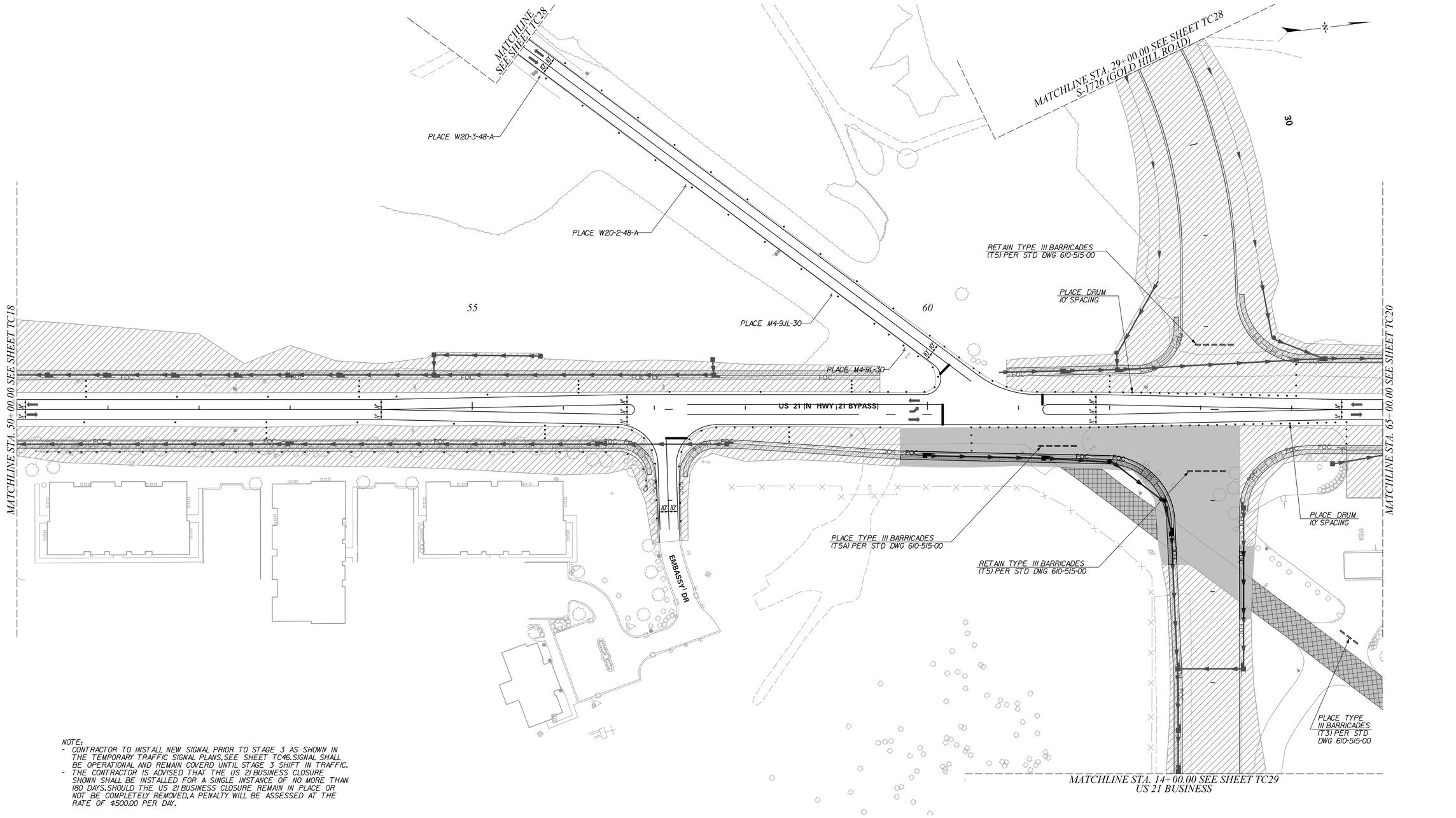
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC19



NOTE:
- CONTRACTOR TO INSTALL NEW SIGNAL PRIOR TO STAGE 3 AS SHOWN IN THE TEMPORARY TRAFFIC SIGNAL PLANS,SEE SHEET TC46.SIGNAL SHALL BE OPERATIONAL AND REMAIN COVERD UNTIL STAGE 3 SHIFT IN TRAFFIC.
- THE CONTRACTOR IS ADVISED THAT THE US 21 BUSINESS CLOSURE SHOWN SHALL BE INSTALLED FOR A SINGLE INSTANCE OF NO MORE THAN 180 DAYS.SHOULD THE US 21 BUSINESS CLOSURE REMAIN IN PLACE OR NOT BE COMPLETELY REMOVED,A PENALTY WILL BE ASSESSED AT THE RATE OF $500.00 PER DAY.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN 4/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC19

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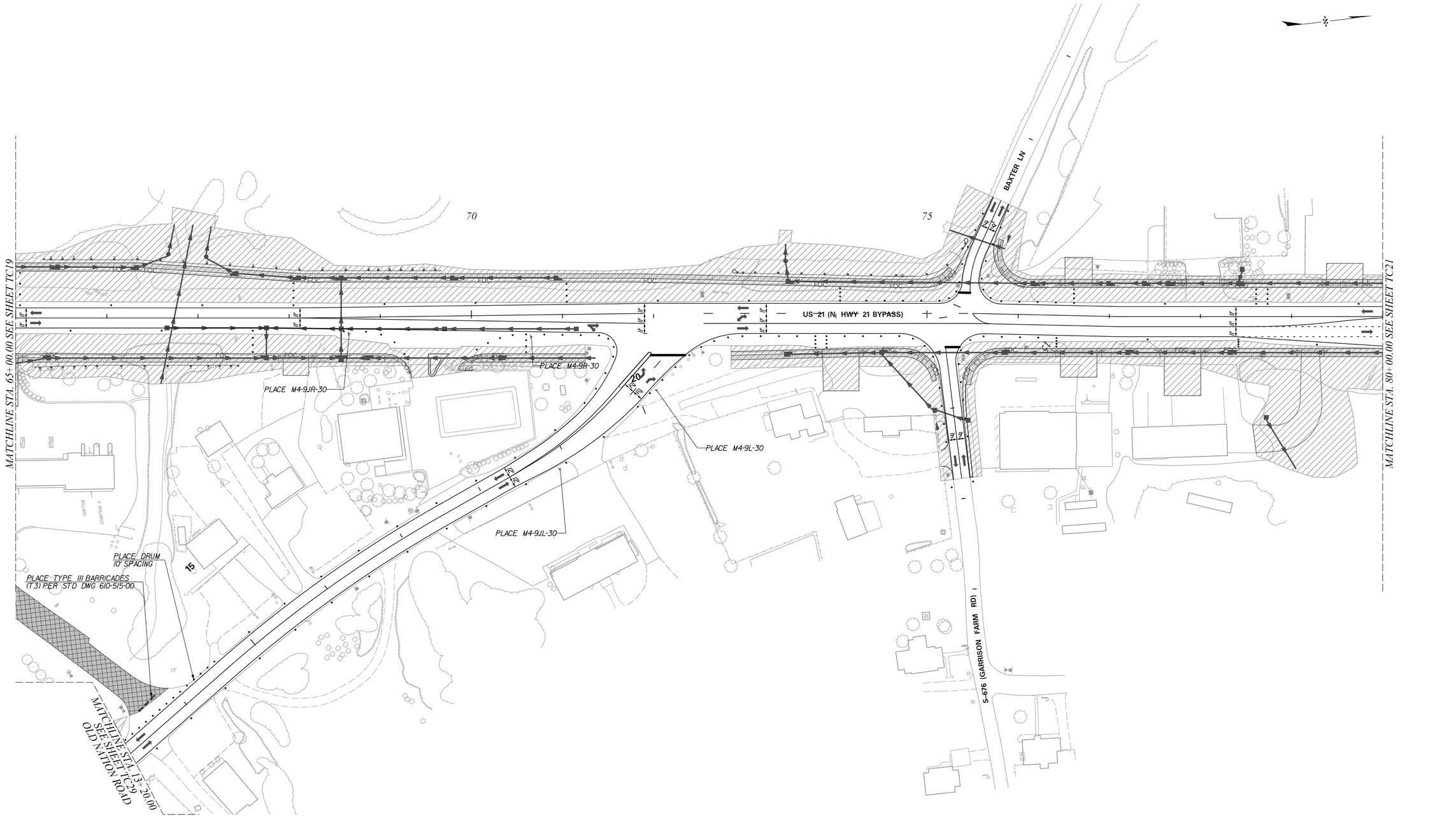
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC20



LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC20

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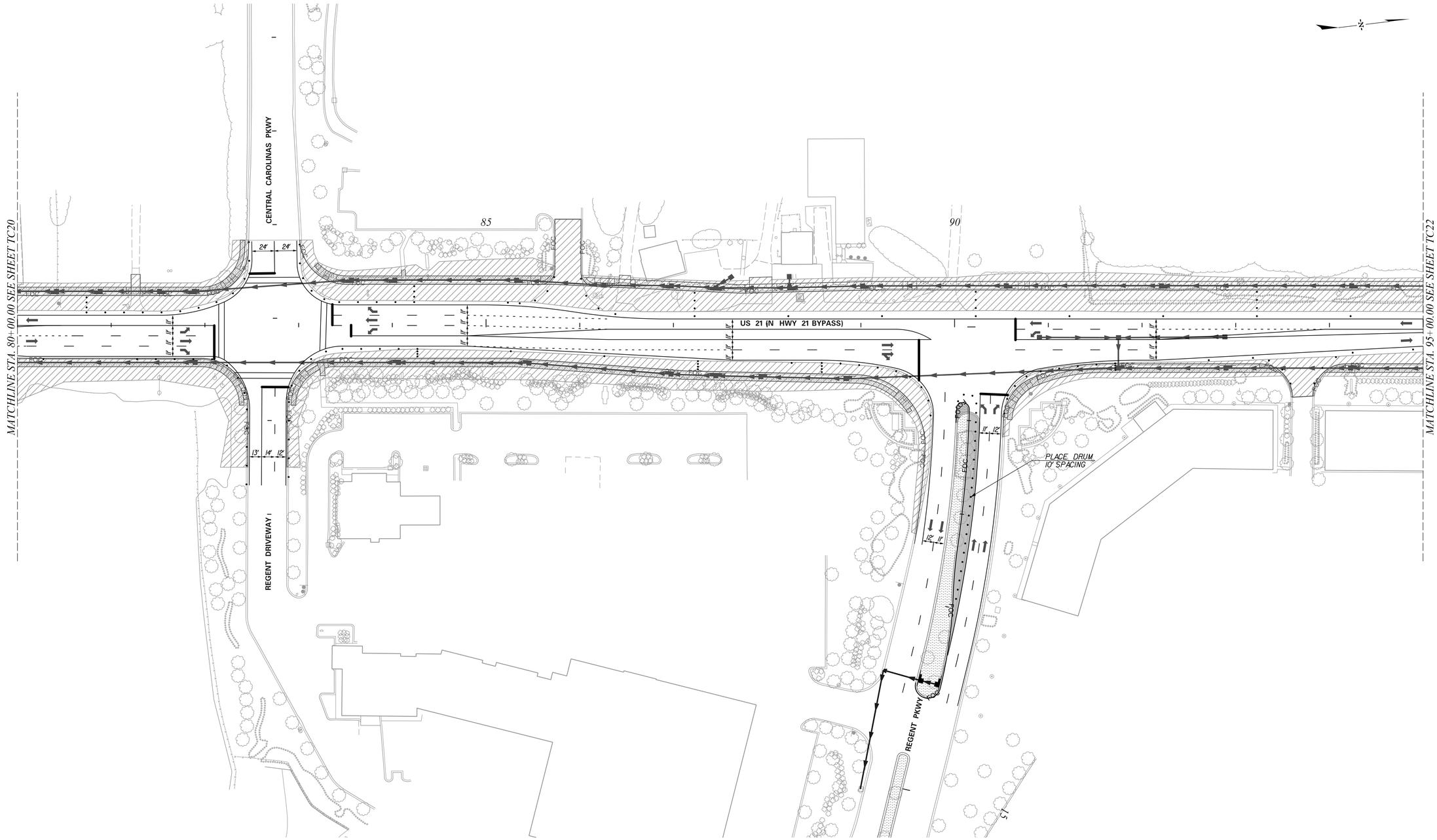
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC21



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. MOLTEN
11/1/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC21

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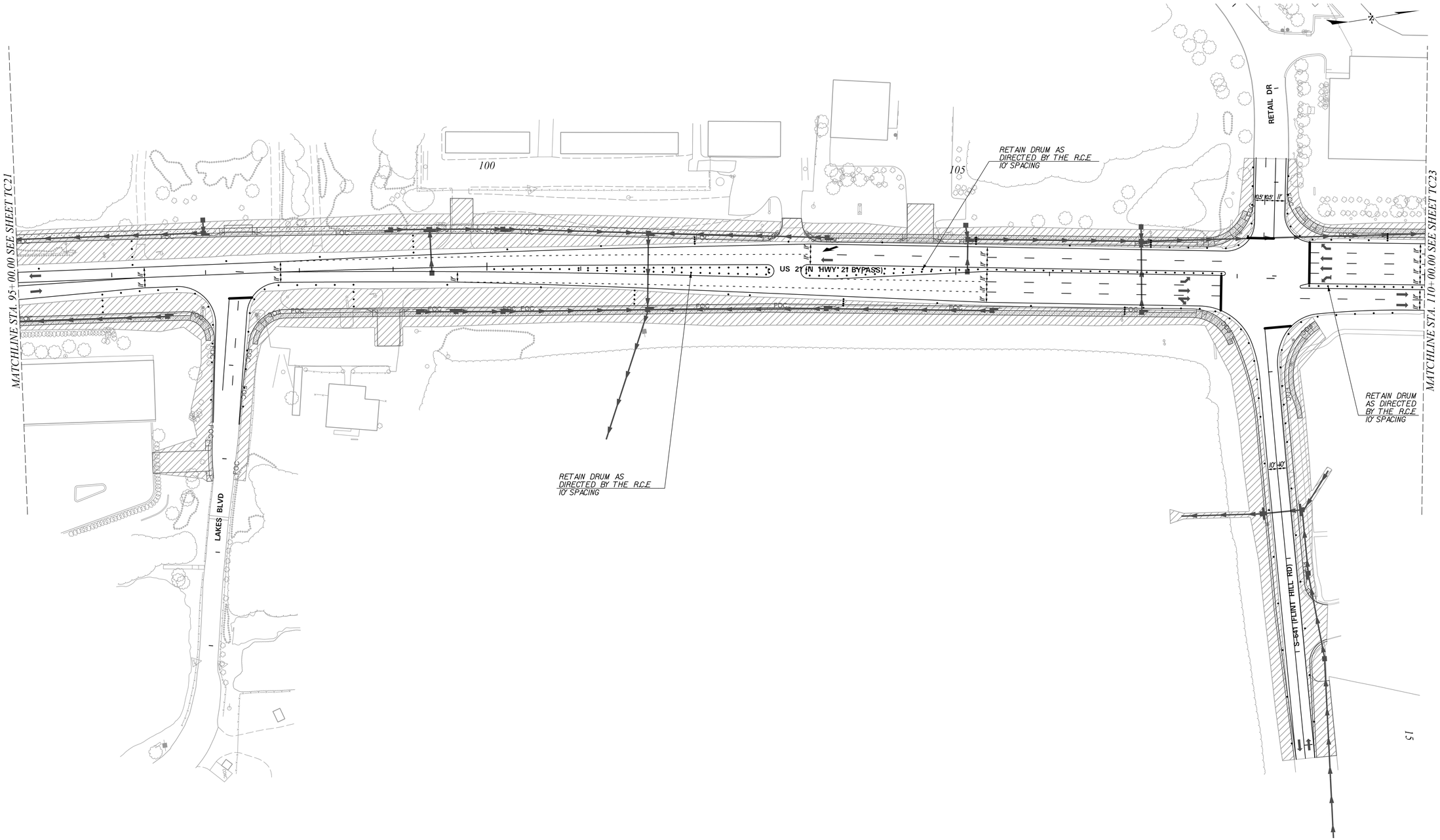
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC22



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC22

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC23

MATCHLINE SEE INSERT THIS SHEET

MATCHLINE STA. 110+00.00 SEE SHEET TC22

MATCHLINE STA. 125+00.00 SEE SHEET TC24

RETAIN DRUM AS DIRECTED BY THE R.C.E 10' SPACING

TERRYS RD

115

120

PLACE M4-9L-30

PLACE M4-9JL-30

RETAIN DRUM AS DIRECTED BY THE R.C.E 10' SPACING

US 21 (N HWY 21 BYPASS)

PLACE TYPE III BARRICADES WITH RII-4-60

PLACE TYPE III BARRICADES WITH RII-4-60

CMS MESSAGE:

OLD	USE NEW
HWY 51 CLOSED	HWY 51 0.3 MI

RETAIN YELLOW FLEXIBLE DELINEATOR @ 5' SPACING AS DIRECTED BY THE R.C.E

COVER EXIST. DI-3A SIGN "PINEVILLE 3 > " AND REPLACE EXIST. 5I MG-2-2I WITH MG-3-2I AS DIRECTED BY THE R.C.E.

315

310

MATCHLINE STA. 306+80.00 SEE SHEET TC23 OLD SC 51

MATCHLINE SEE THIS SHEET

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100 scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. MASTEN 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC23

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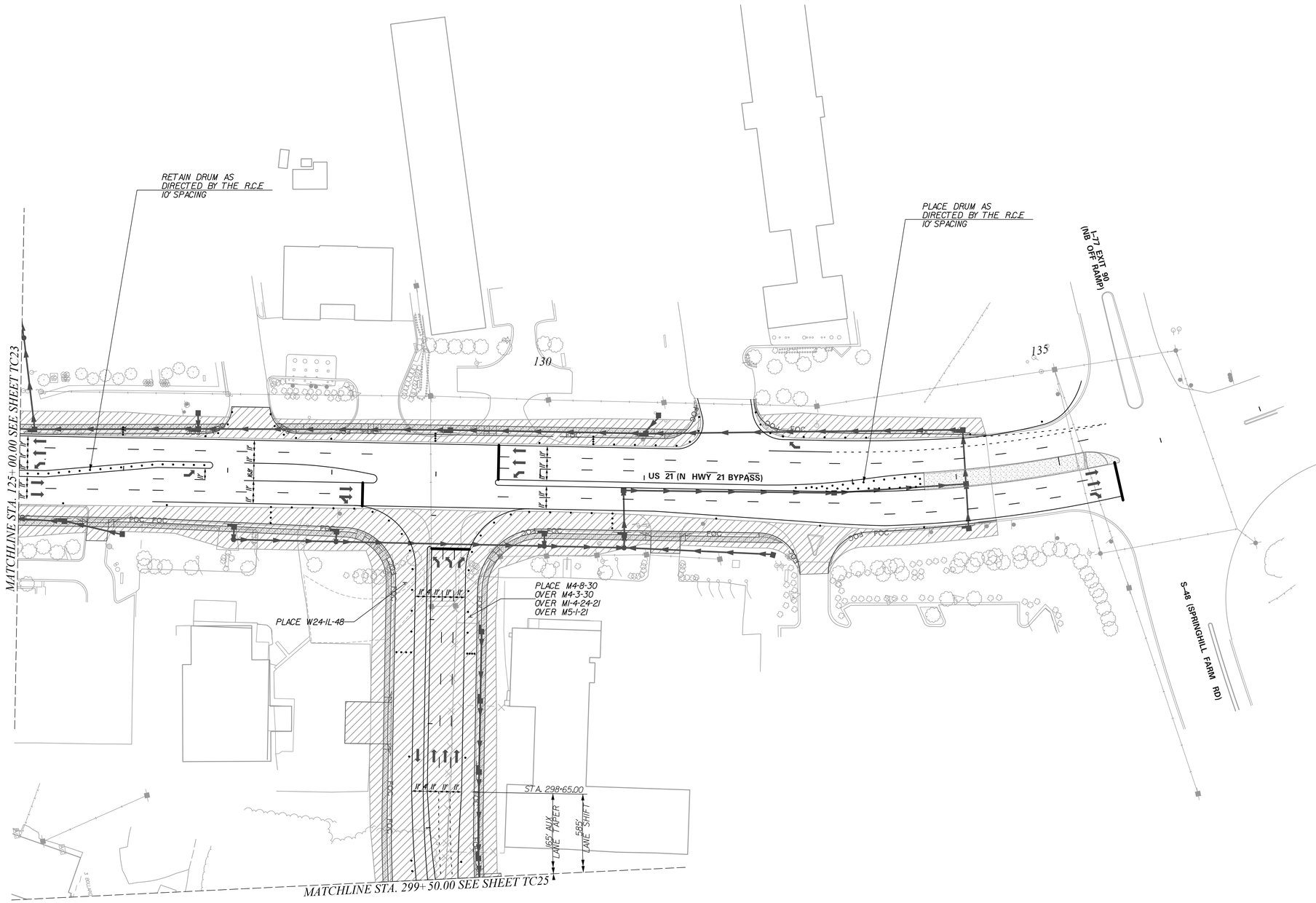
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC24



NOTE:
- SEE TC50 FOR TEMPORARY TRAFFIC SIGNAL DETAILS.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA No. 22780 CHRISTOPHER E. MARTIN 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC24

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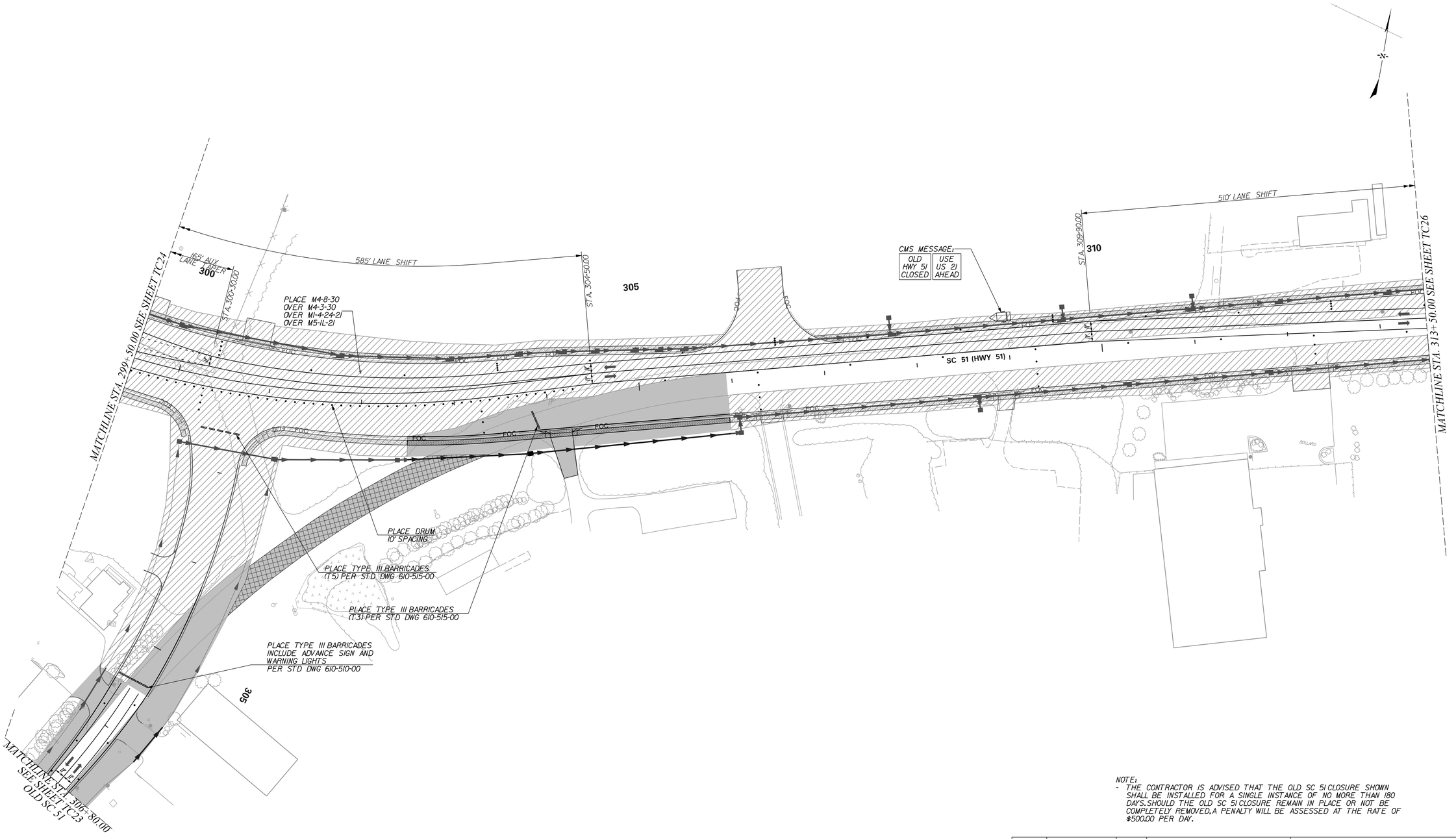
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC25



NOTE:
- THE CONTRACTOR IS ADVISED THAT THE OLD SC 51 CLOSURE SHOWN SHALL BE INSTALLED FOR A SINGLE INSTANCE OF NO MORE THAN 180 DAYS. SHOULD THE OLD SC 51 CLOSURE REMAIN IN PLACE OR NOT BE COMPLETELY REMOVED, A PENALTY WILL BE ASSESSED AT THE RATE OF $500.00 PER DAY.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA
STV INCORPORATED
No. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTEN
DocuSigned by: 9C6CA2B0B6F405...
11/1/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC25

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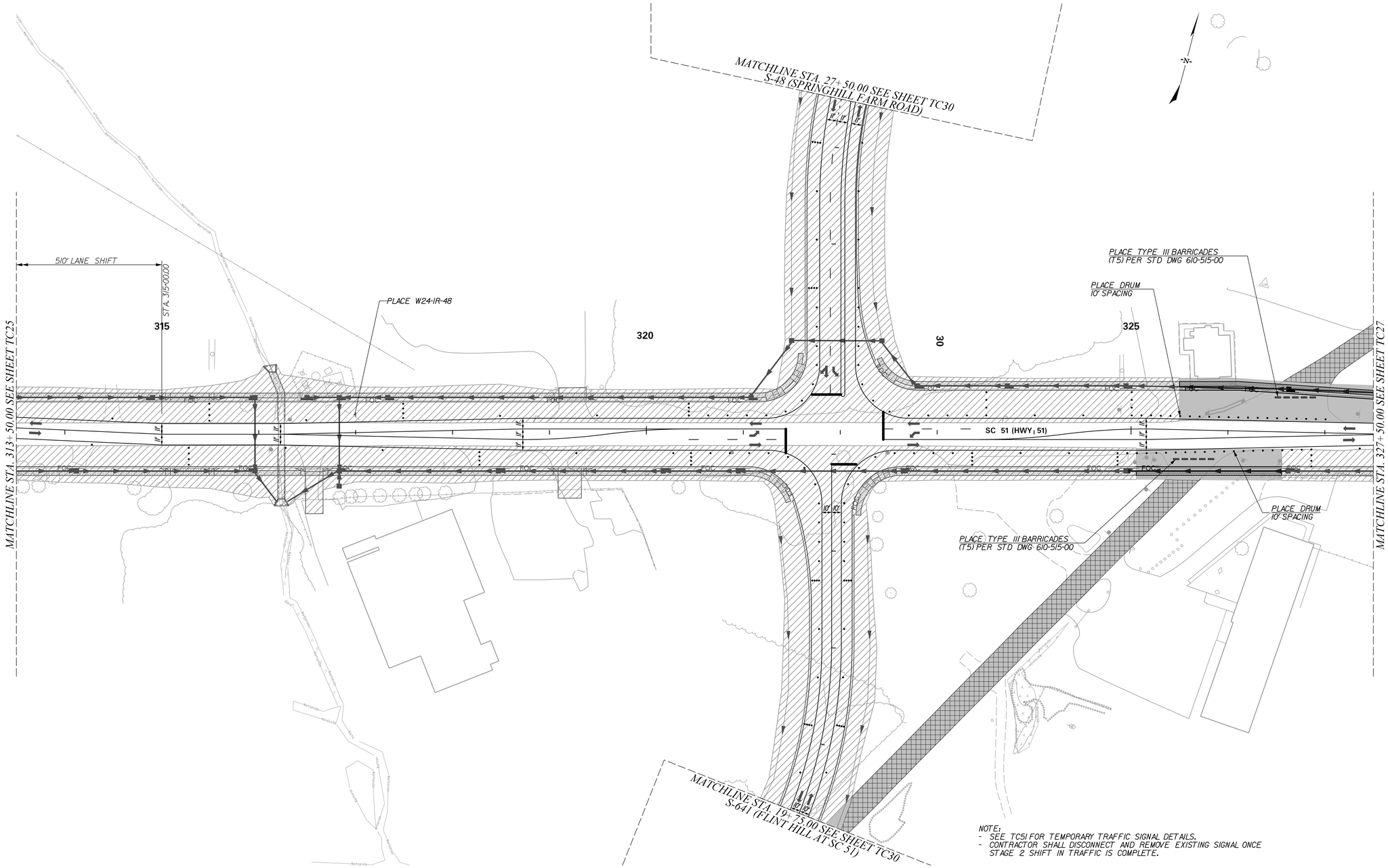
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC26



NOTE:
- SEE TC51 FOR TEMPORARY TRAFFIC SIGNAL DETAILS.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SIGNAL ONCE STAGE 2 SHIFT IN TRAFFIC IS COMPLETE.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN 7/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC26

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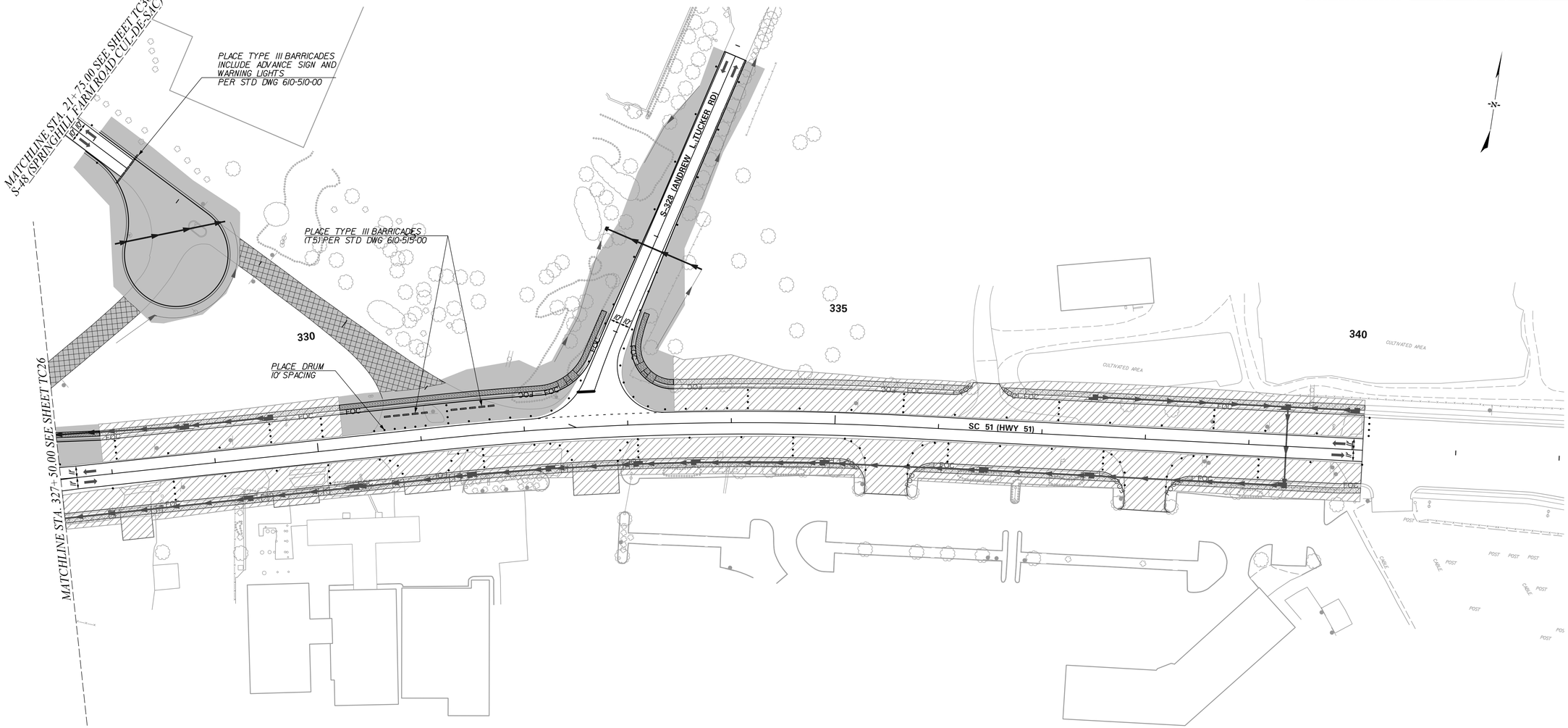
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC27



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. MARTIN — 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC27

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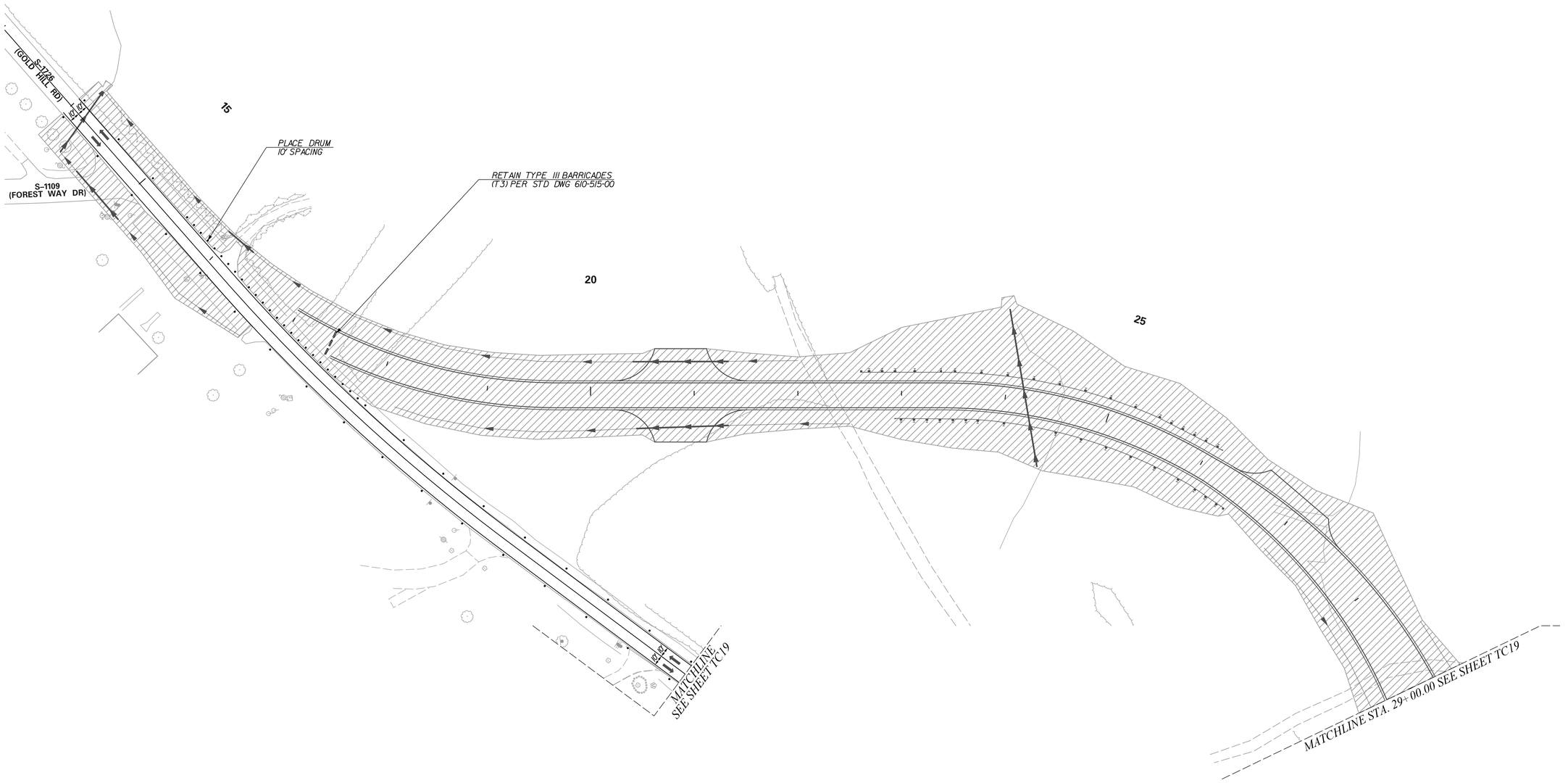
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC28



LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER E. CARSTEN — 3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC28

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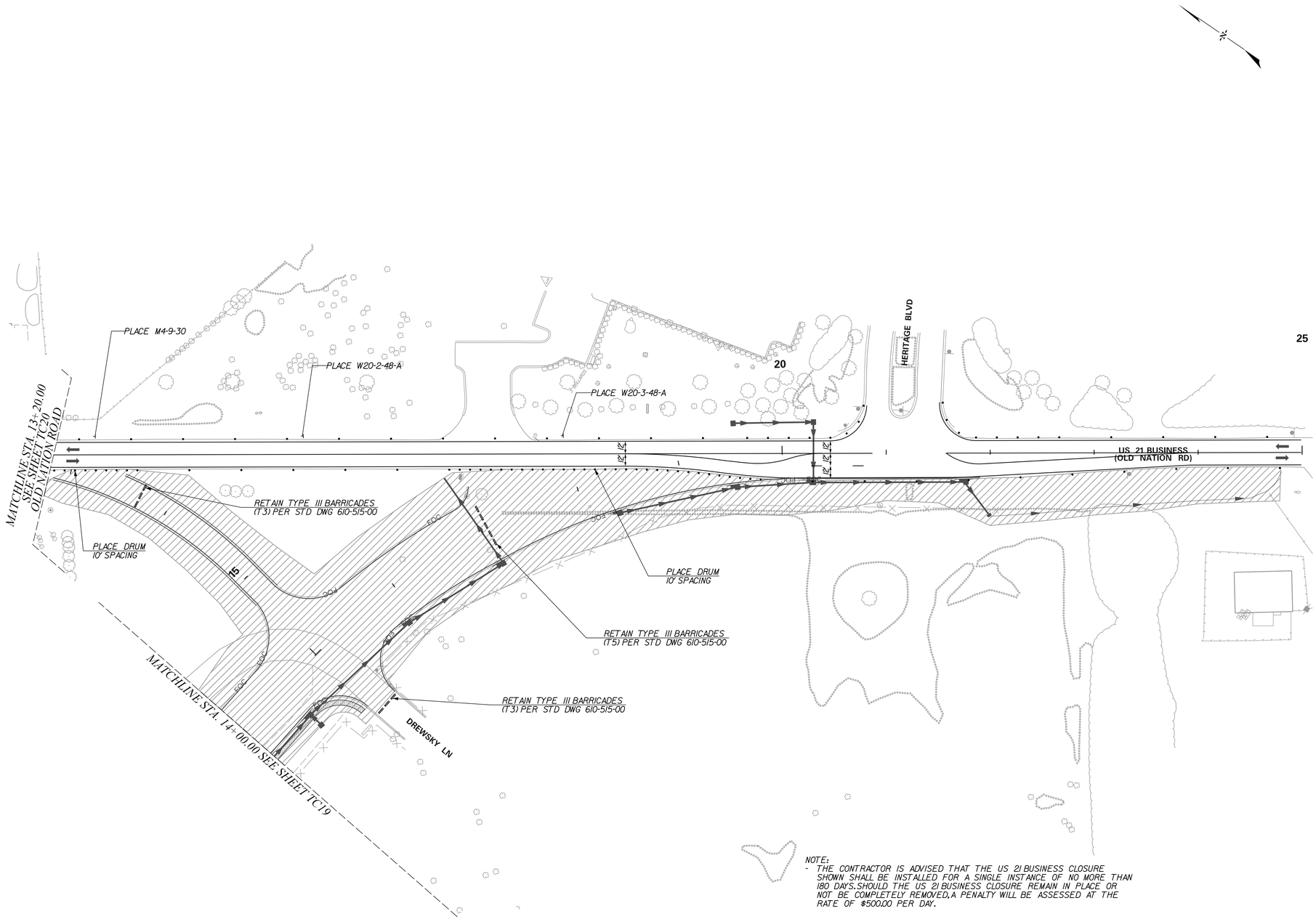
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC29



NOTE:
- THE CONTRACTOR IS ADVISED THAT THE US 21 BUSINESS CLOSURE SHOWN SHALL BE INSTALLED FOR A SINGLE INSTANCE OF NO MORE THAN 180 DAYS. SHOULD THE US 21 BUSINESS CLOSURE REMAIN IN PLACE OR NOT BE COMPLETELY REMOVED, A PENALTY WILL BE ASSESSED AT THE RATE OF $500.00 PER DAY.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARSTEN 3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC29

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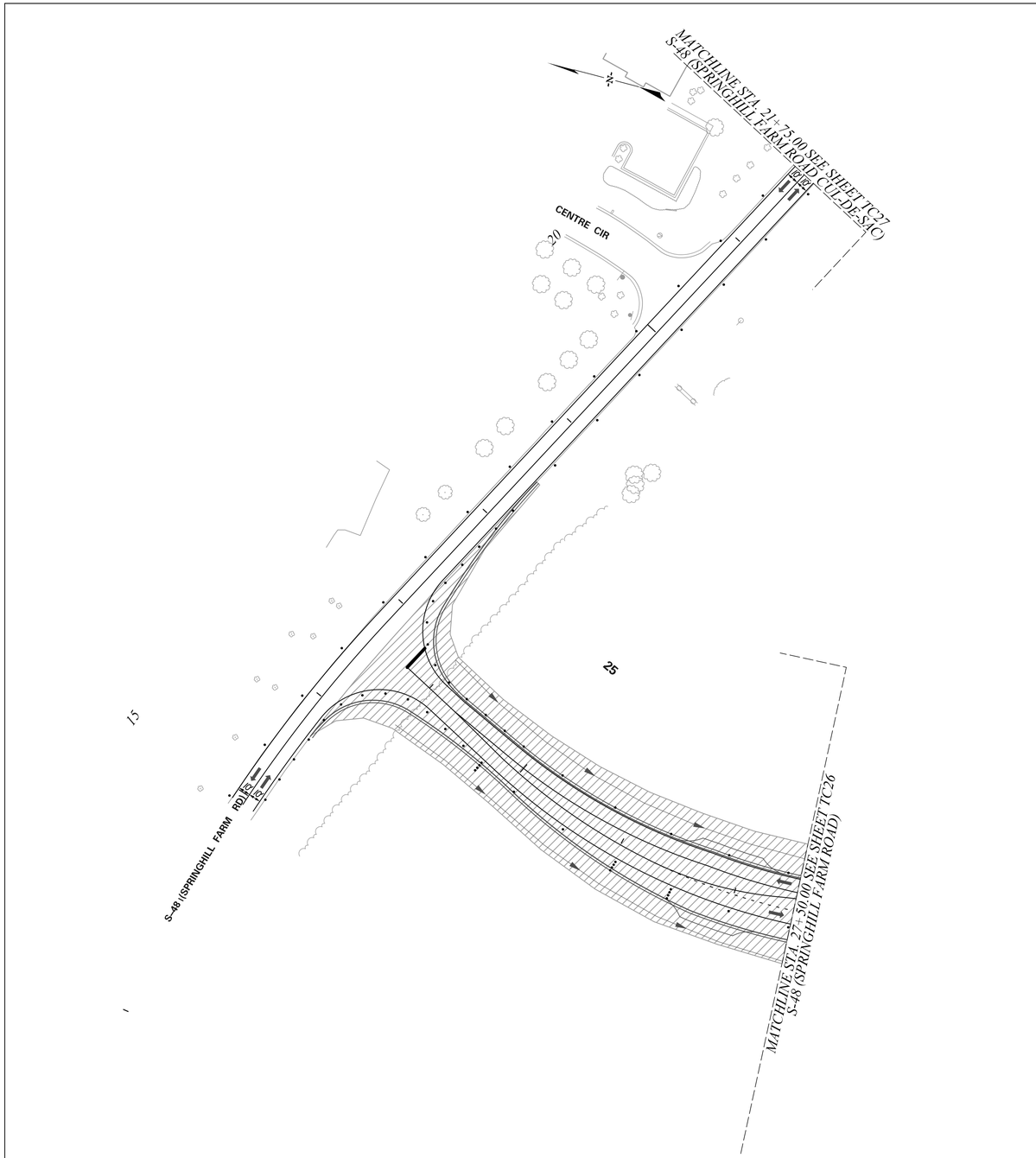
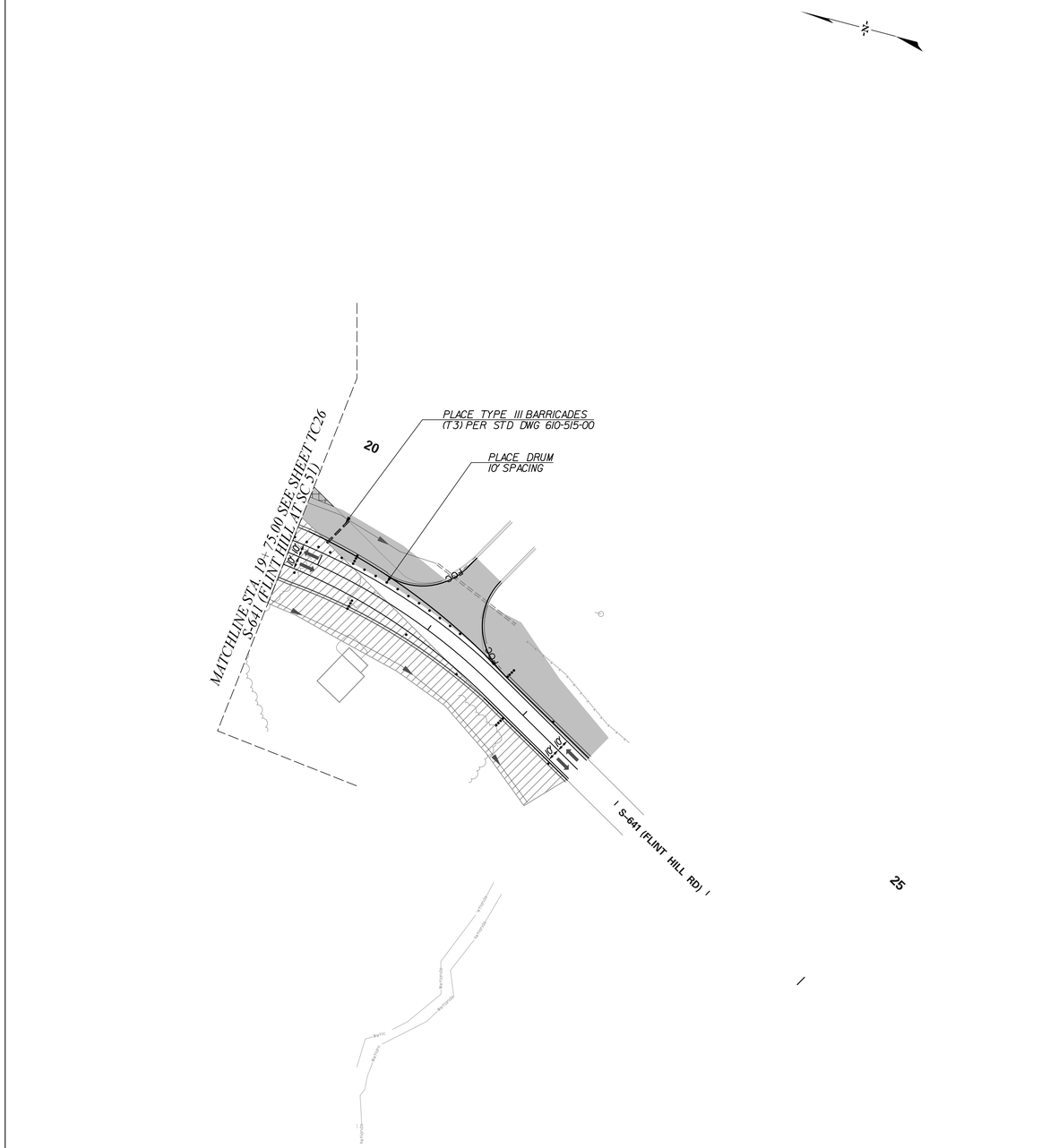
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC30





LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
TRAFFIC CONTROL PLANS
STAGE 2

SCALE 1"= 50' RTE. US 21 DWG. NO. TC30

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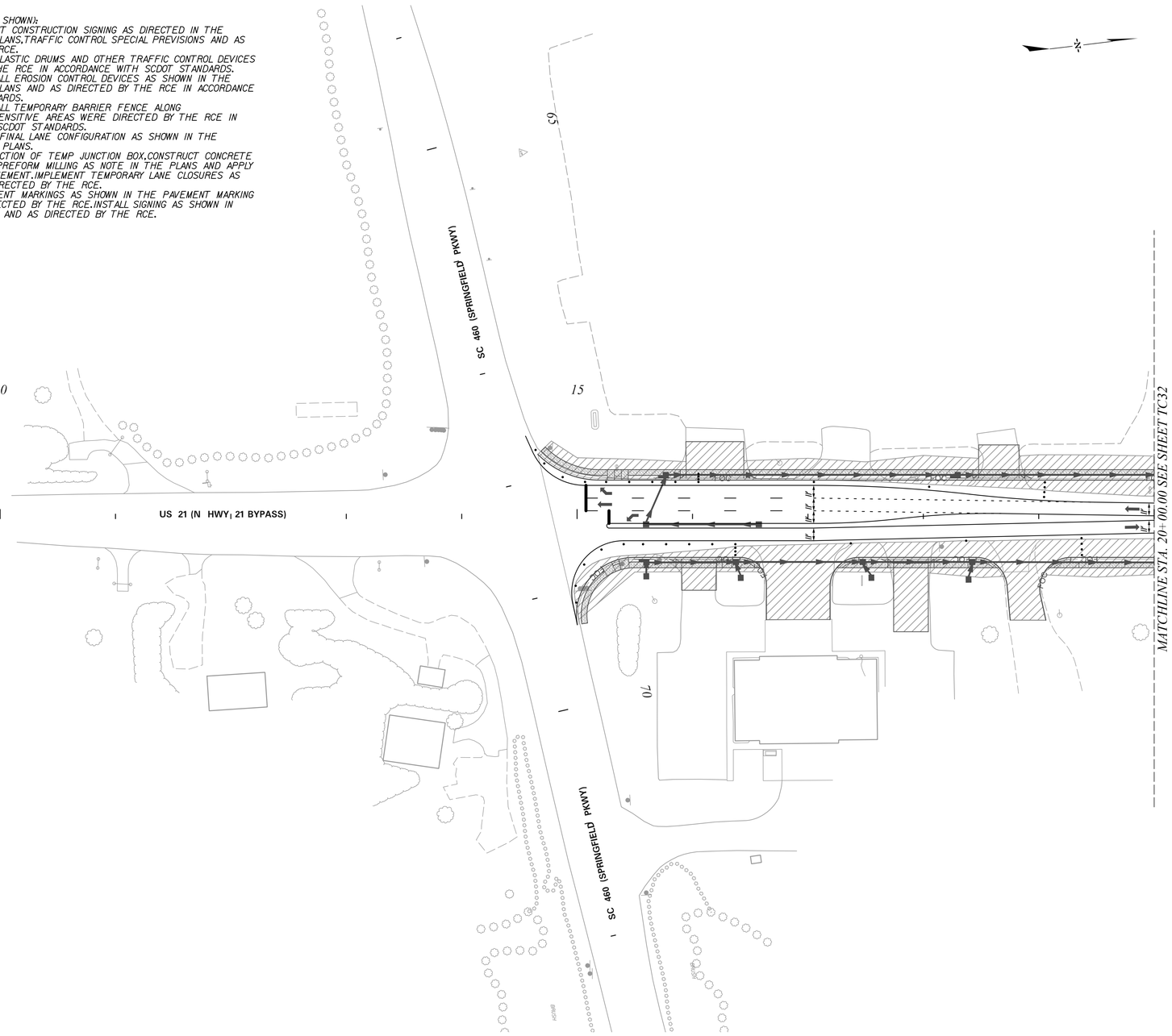
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC31

STAGE 3 NOTES:
1. MAINTAIN PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL PLANS,TRAFFIC CONTROL SPECIAL PREVISIONS AND AS DIRECTED BY THE RCE.
2. PLACE PORTABLE PLASTIC DRUMS AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
3. MAINTAIN AND INSTALL EROSION CONTROL DEVICES AS SHOWN IN THE EROSION CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
4. MAINTAIN AND INSTALL TEMPORARY BARRIER FENCE ALONG ENVIRONMENTALLY SENSITIVE AREAS WERE DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
5. APPLY TEMPORARY PAVEMENT MARKINGS IN ORDER TO MAINTAIN OR SHIFT EXISTING TRAFFIC PATTERNS WITH ALLOWABLE LANE REDUCTION WIDTHS AS SHOWN AND AS DIRECTED BY THE RCE.
6. CONTINUE CONSTRUCTION OF NEW BASE AND INTERMEDIATE PAVEMENT, CURB AND GUTTER,SIDEWALK AND DRAINAGE AS INDICATED.

STAGE 4 NOTES (NOT SHOWN):
1. MAINTAIN PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL PLANS,TRAFFIC CONTROL SPECIAL PREVISIONS AND AS DIRECTED BY THE RCE.
2. PLACE PORTABLE PLASTIC DRUMS AND OTHER TRAFFIC CONTROL DEVICES AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
3. MAINTAIN AND INSTALL EROSION CONTROL DEVICES AS SHOWN IN THE EROSION CONTROL PLANS AND AS DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
4. MAINTAIN AND INSTALL TEMPORARY BARRIER FENCE ALONG ENVIRONMENTALLY SENSITIVE AREAS WERE DIRECTED BY THE RCE IN ACCORDANCE WITH SCDOT STANDARDS.
5. SHIFT TRAFFIC TO FINAL LANE CONFIGURATION AS SHOWN IN THE PAVEMENT MARKING PLANS.
6. COMPLETE CONSTRUCTION OF TEMP JUNCTION BOX,CONSTRUCT CONCRETE MEDIANS & ISLAND,PREFORM MILLING AS NOTE IN THE PLANS AND APPLY FINAL SURFACE PAVEMENT.IMPLEMENT TEMPORARY LANE CLOSURES AS NEEDED AND AS DIRECTED BY THE RCE.
7. APPLY FINAL PAVEMENT MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS AND AS DIRECTED BY THE RCE.INSTALL SIGNING AS SHOWN IN THE SIGNING PLANS AND AS DIRECTED BY THE RCE.



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND
- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

scale 50 0 50 100 feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. JORGENSEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC31

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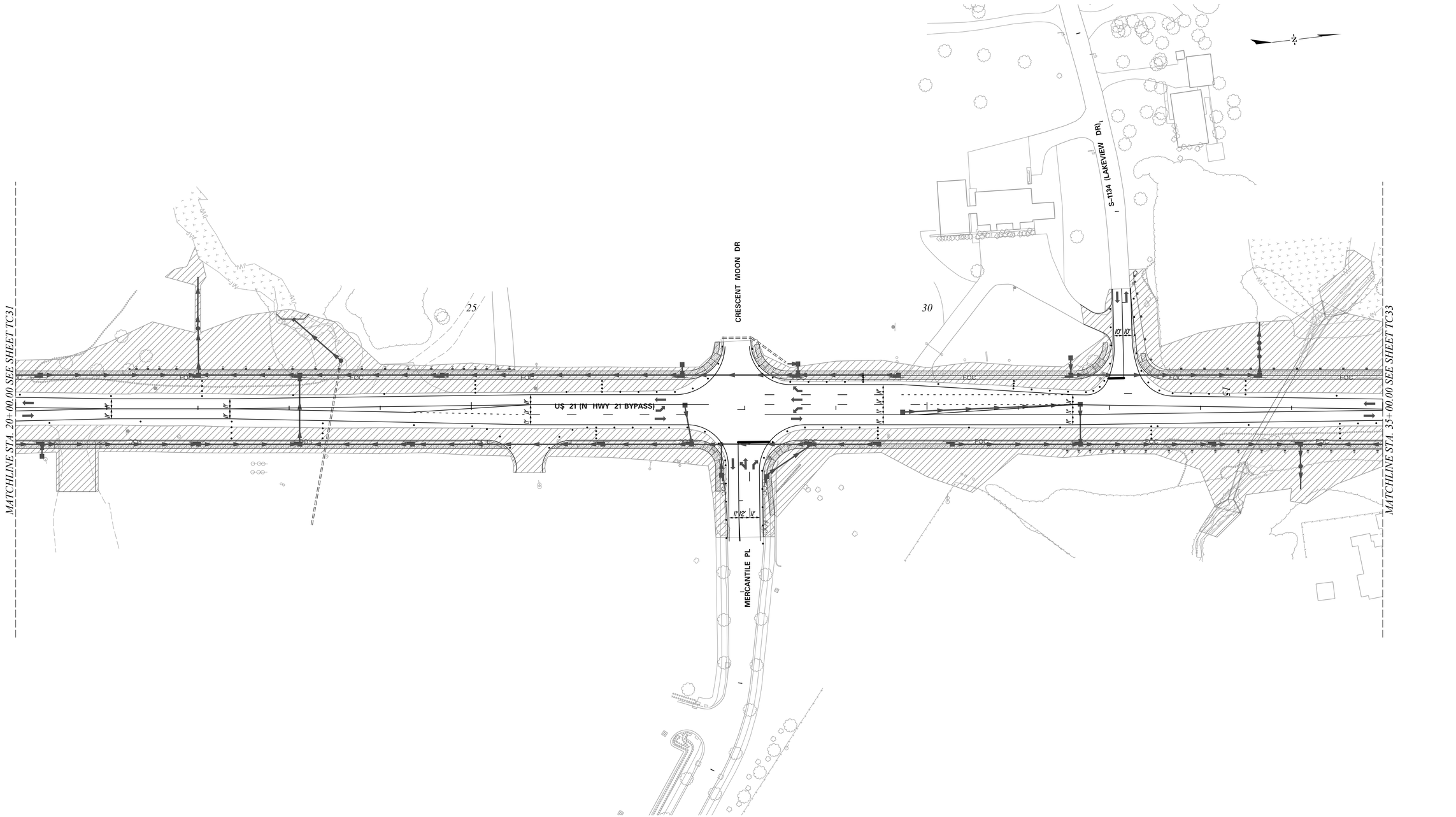
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC32



LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
TRAFFIC CONTROL PLANS
STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC32

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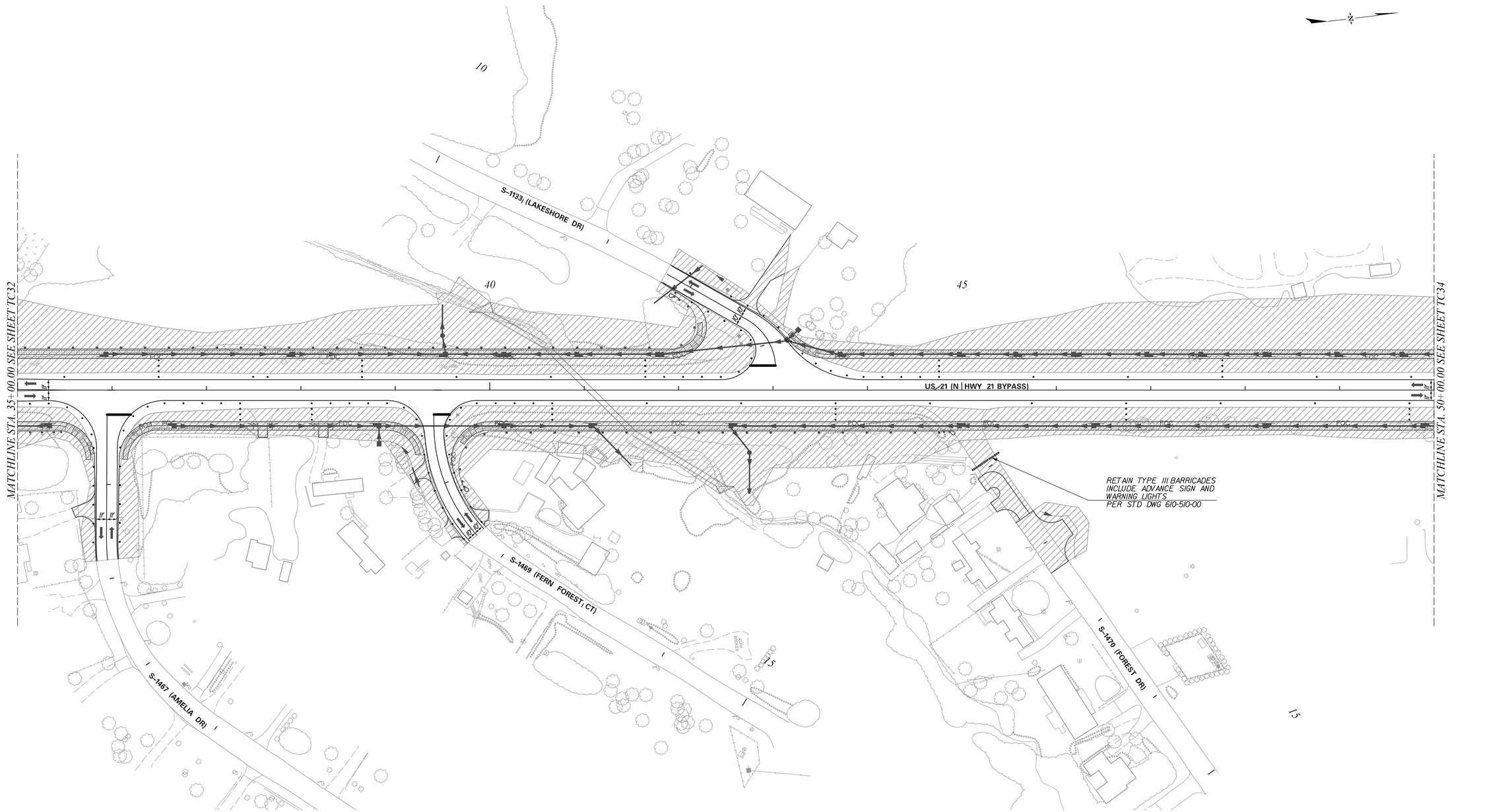
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC33



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. MASTEN
10/11/2023

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC33

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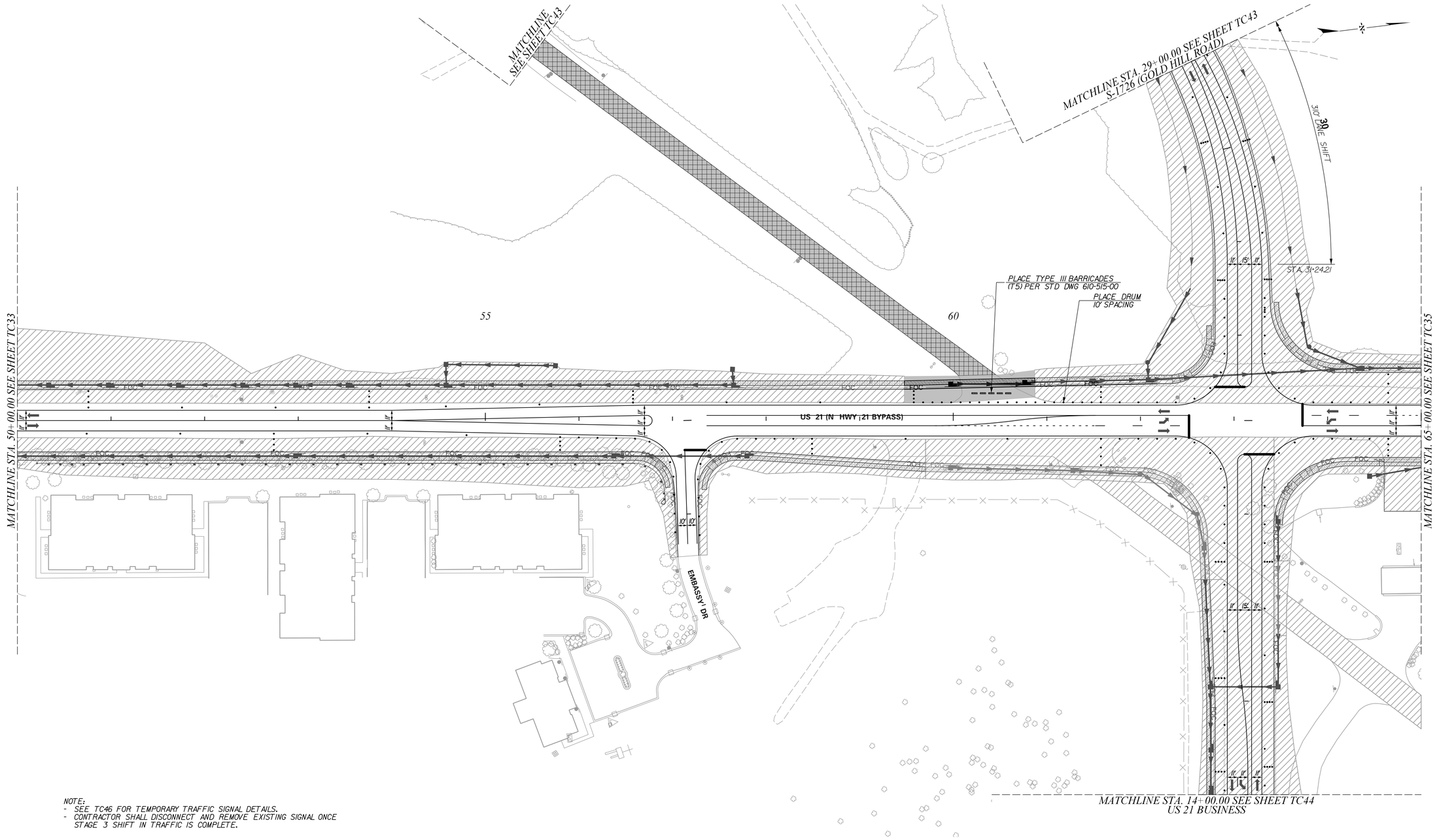
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC34



NOTE:
- SEE TC46 FOR TEMPORARY TRAFFIC SIGNAL DETAILS.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SIGNAL ONCE STAGE 3 SHIFT IN TRAFFIC IS COMPLETE.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC34

mastilg
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1/10/2023

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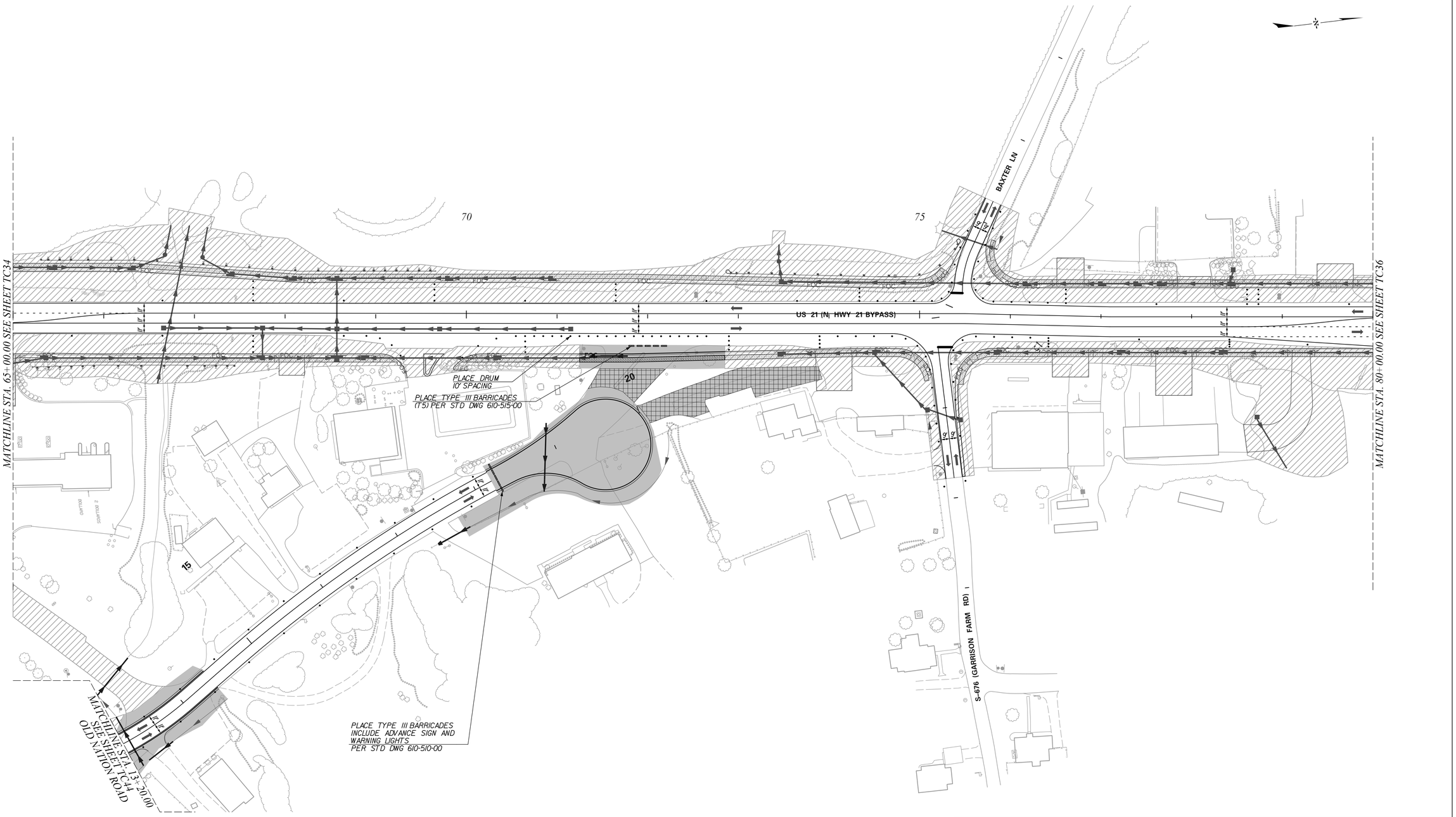
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC35



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED No. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. CARTEN 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC35

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10/10/2023

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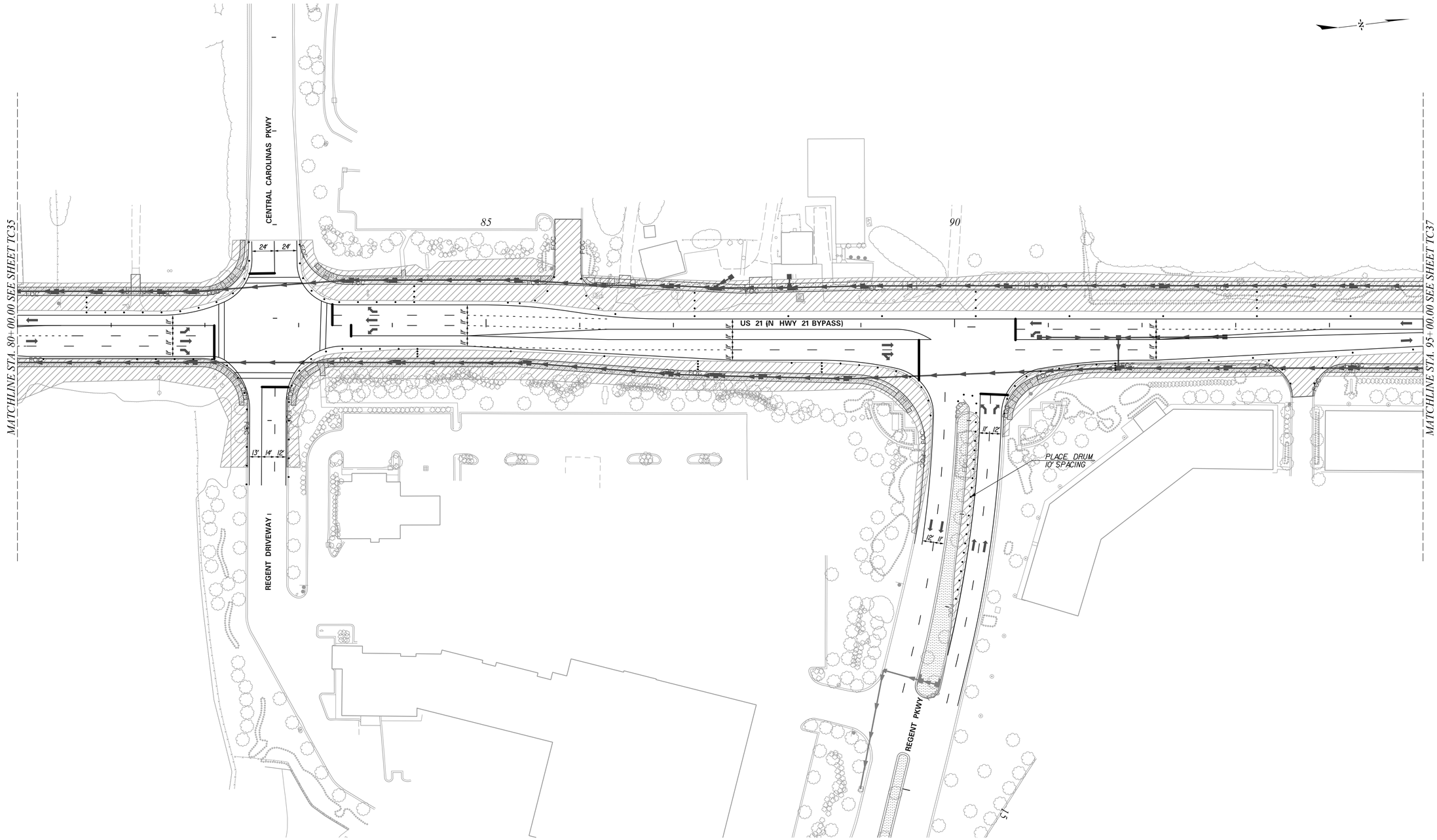
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	TC36



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARSTEN — 3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC36

mastiltg
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1/10/2023

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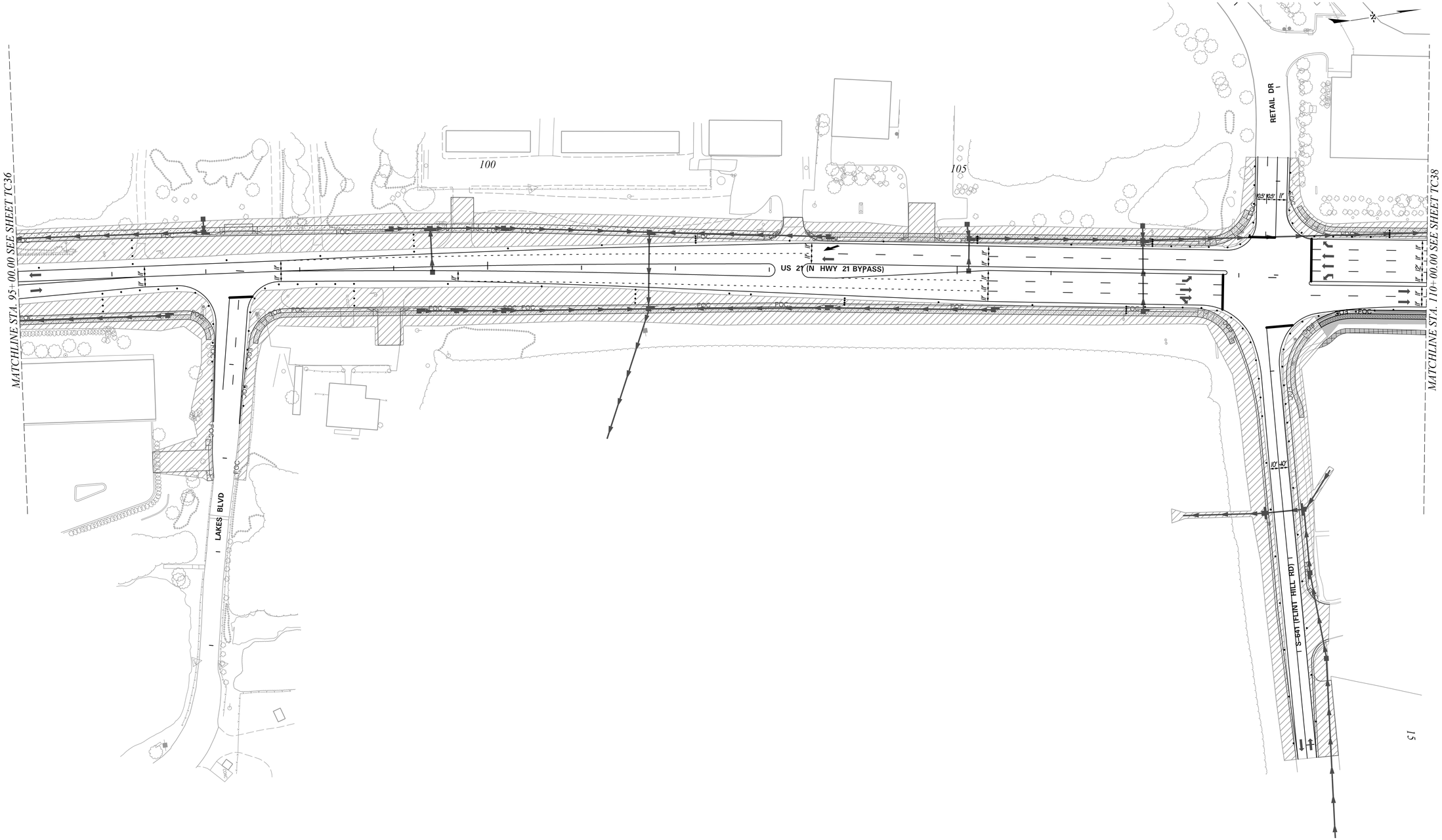
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC37



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. CARLSON No. 22780 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC37

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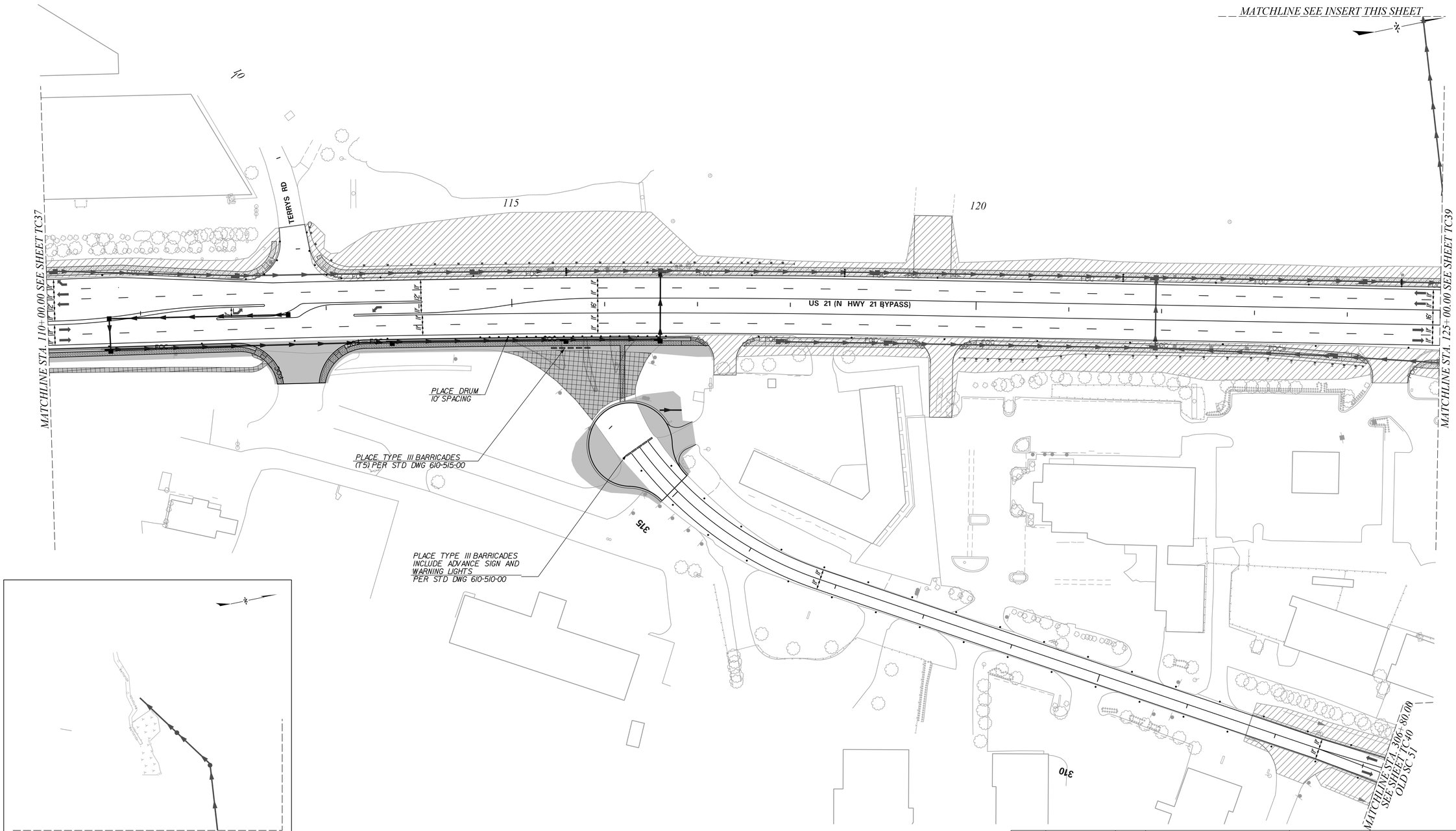
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC38



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — REGISTERED — CHRISTOPHER E. KRISTEN — 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC38

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1/10/2023

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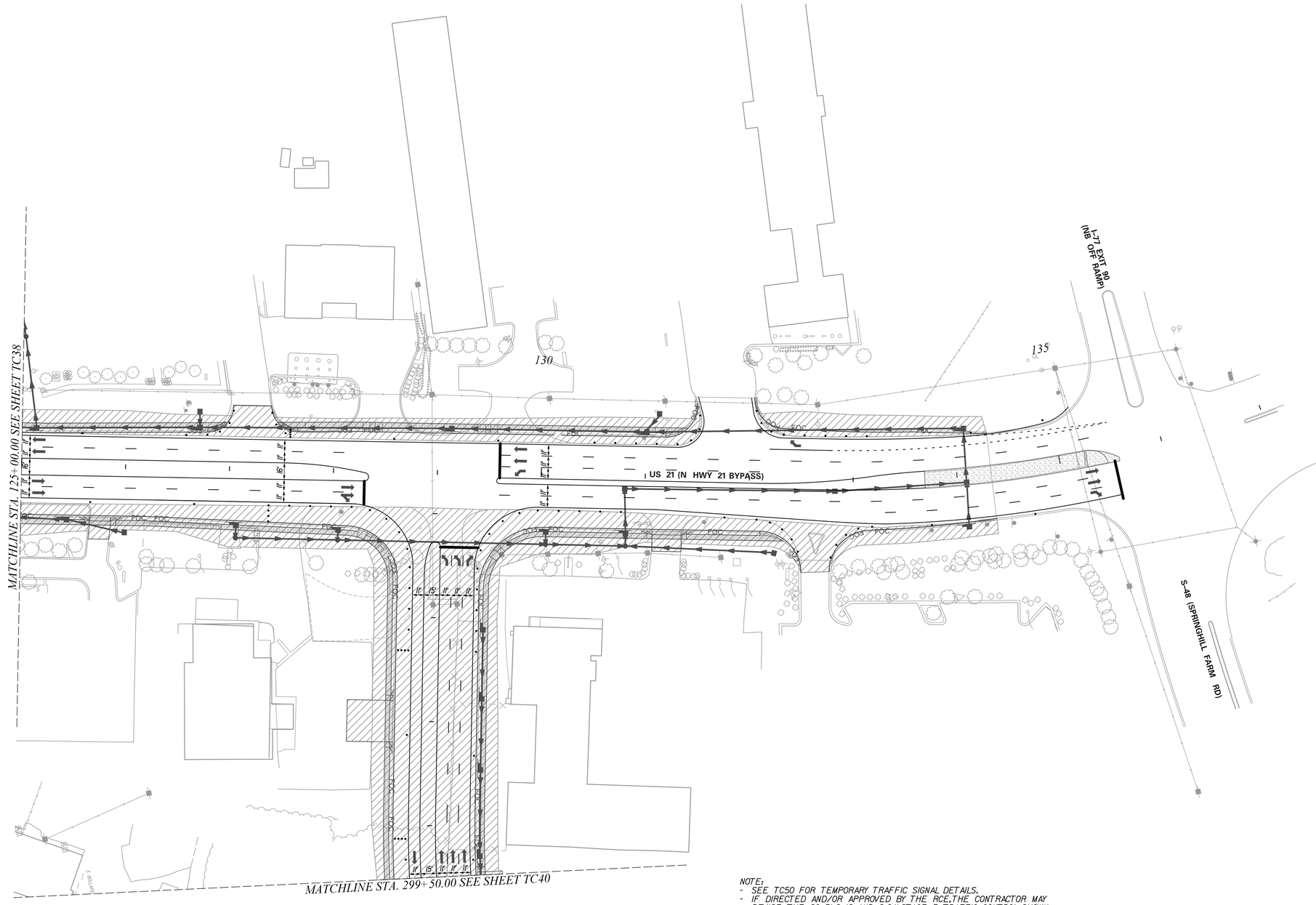
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC39



NOTE:
- SEE TC50 FOR TEMPORARY TRAFFIC SIGNAL DETAILS.
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARSTEN — 3/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC39

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1/10/2023

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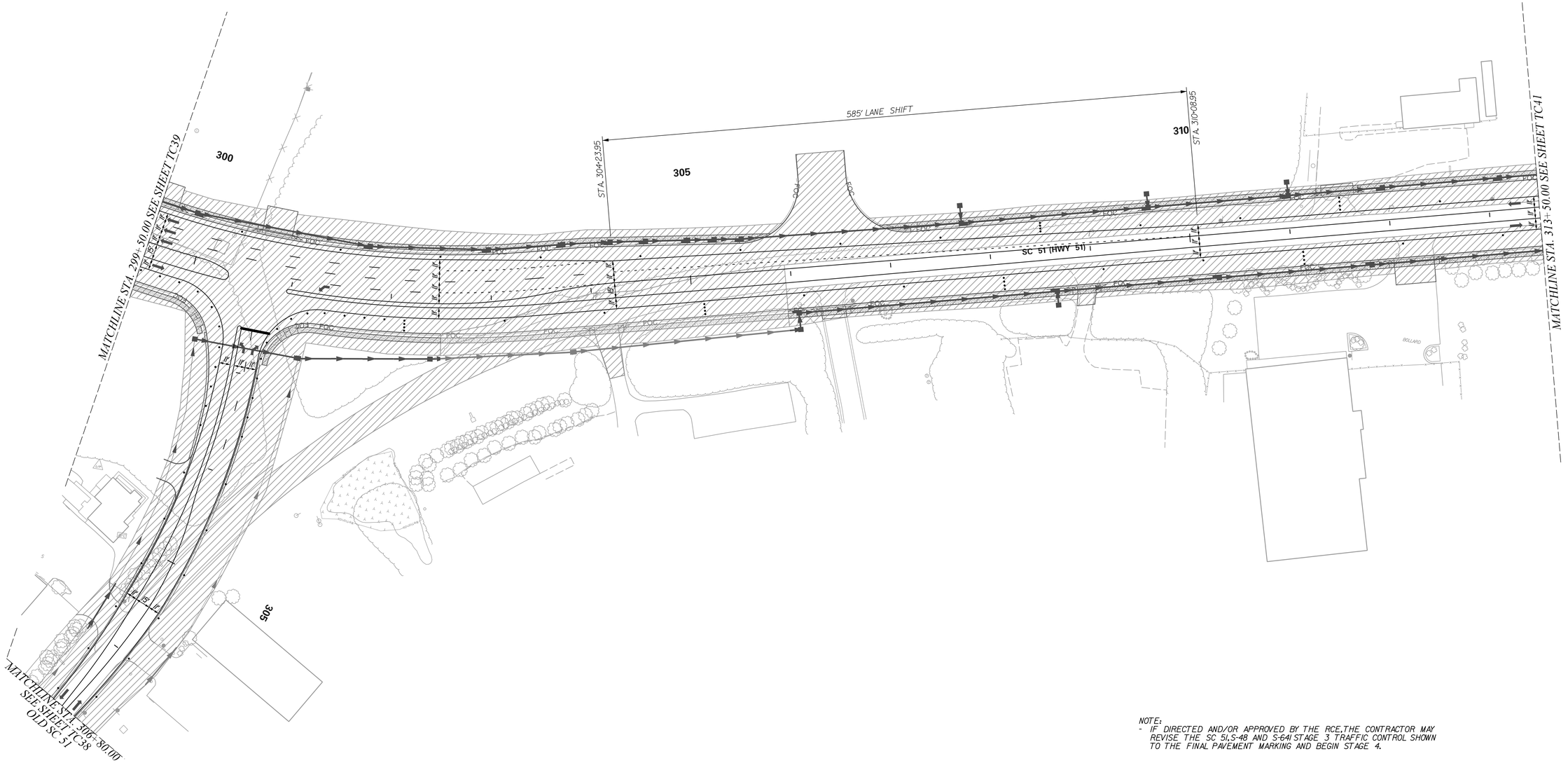
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC40



NOTE:
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSTEN
PROFESSIONAL ENGINEER
10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC40

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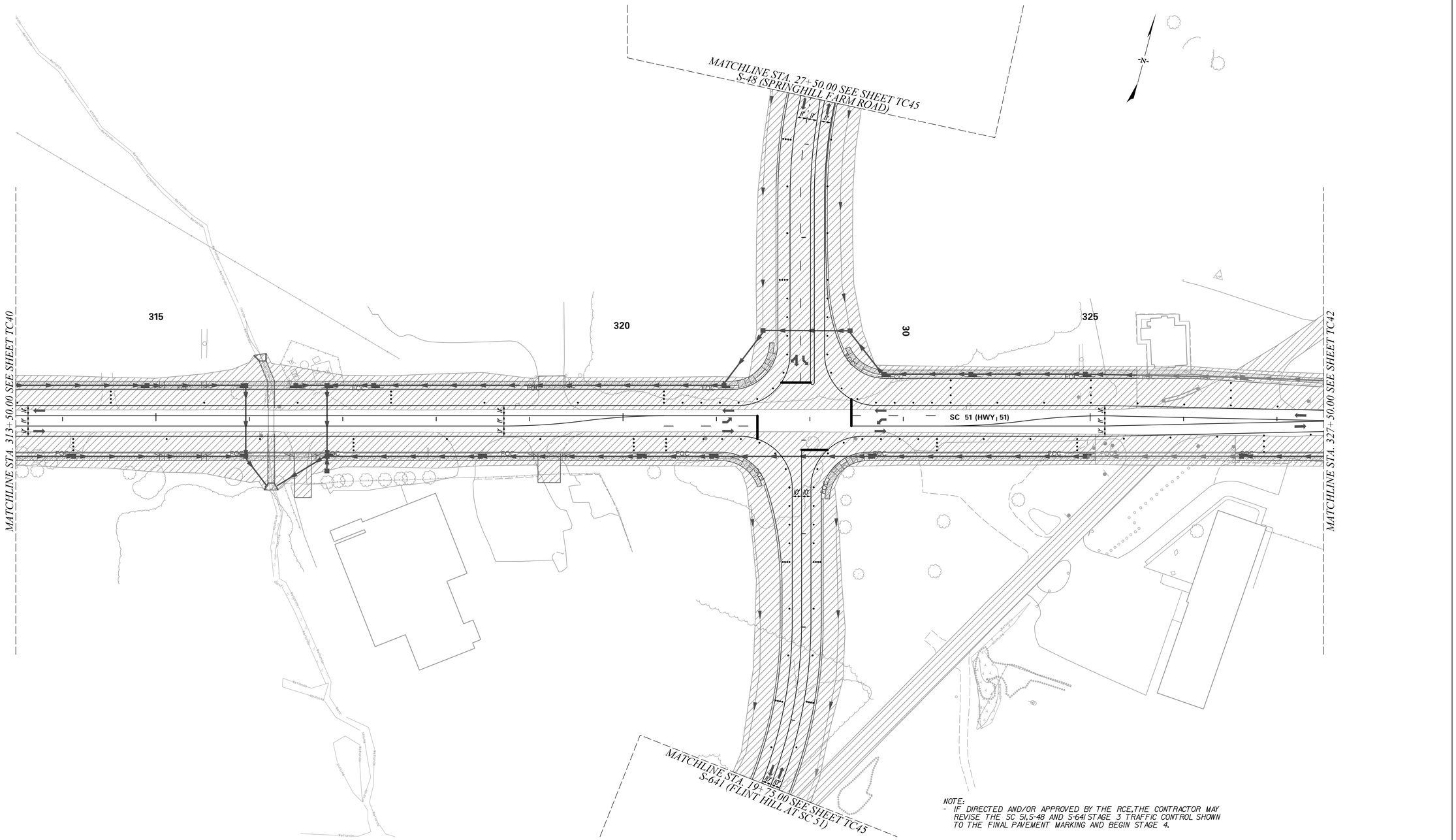
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC41



NOTE:
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARSTEN 4/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC41

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1/10/2023

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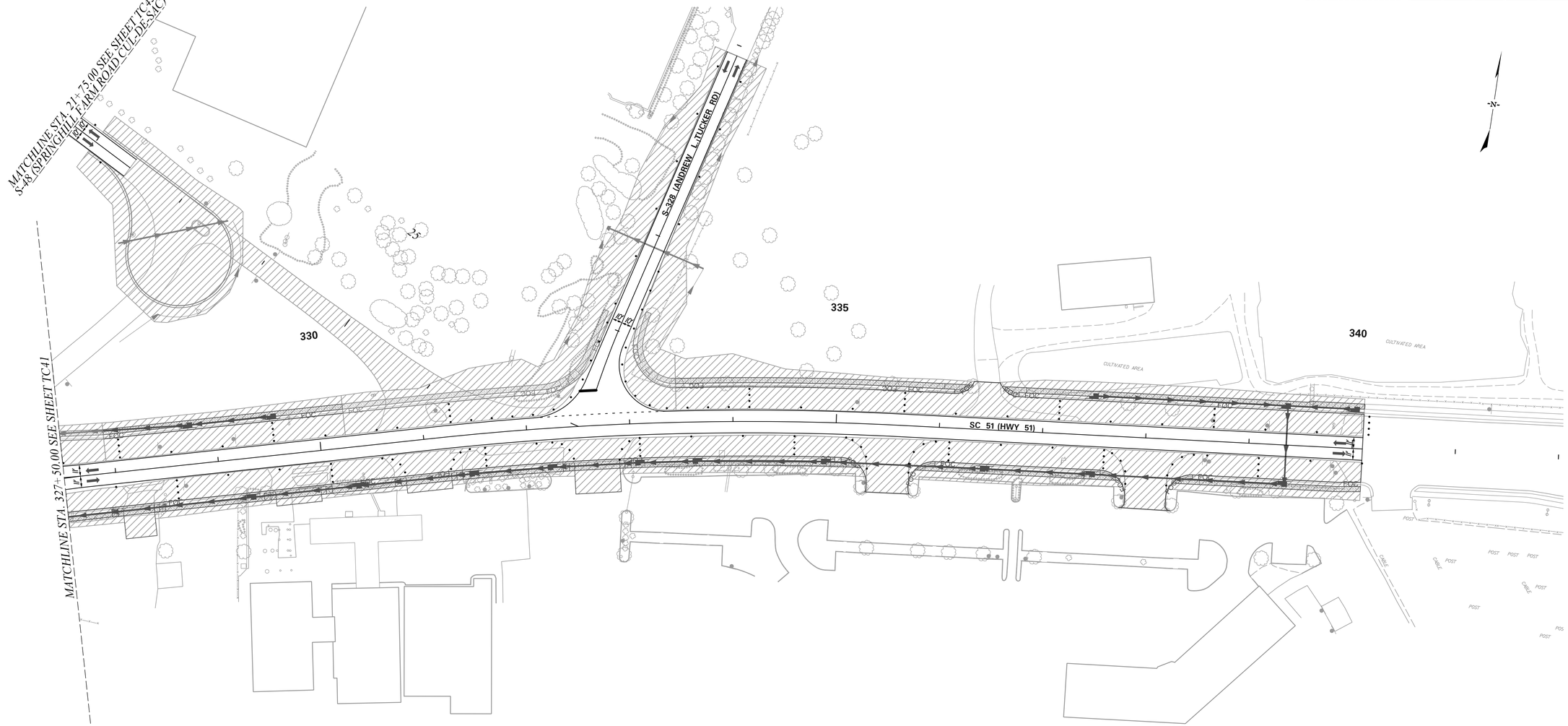
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC42



NOTE:
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03338

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. MARTIN
5/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC42

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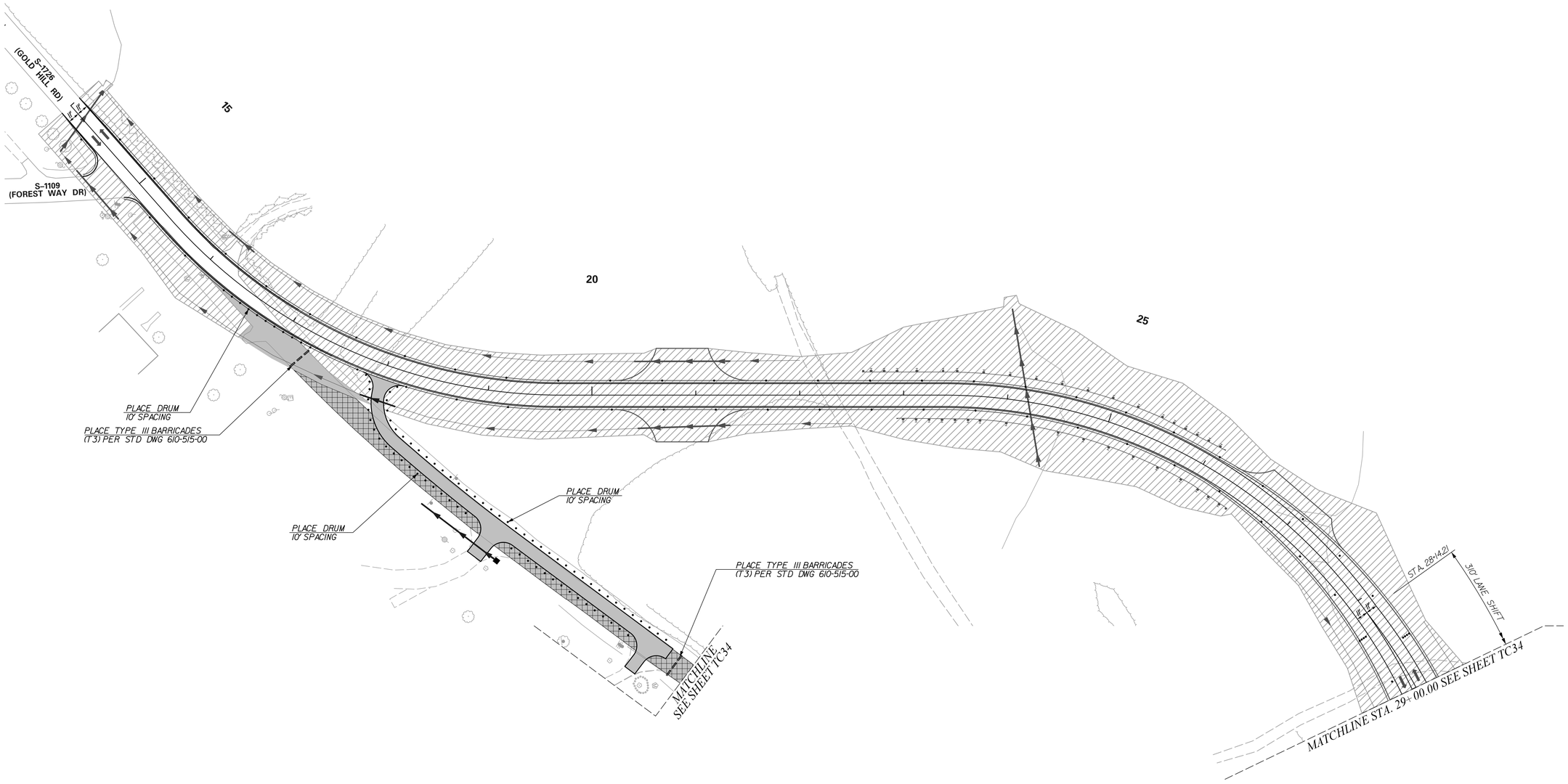
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC43



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED No. C03318 CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL ENGINEER CHRISTOPHER E. CARSTEN No. 22780 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC43

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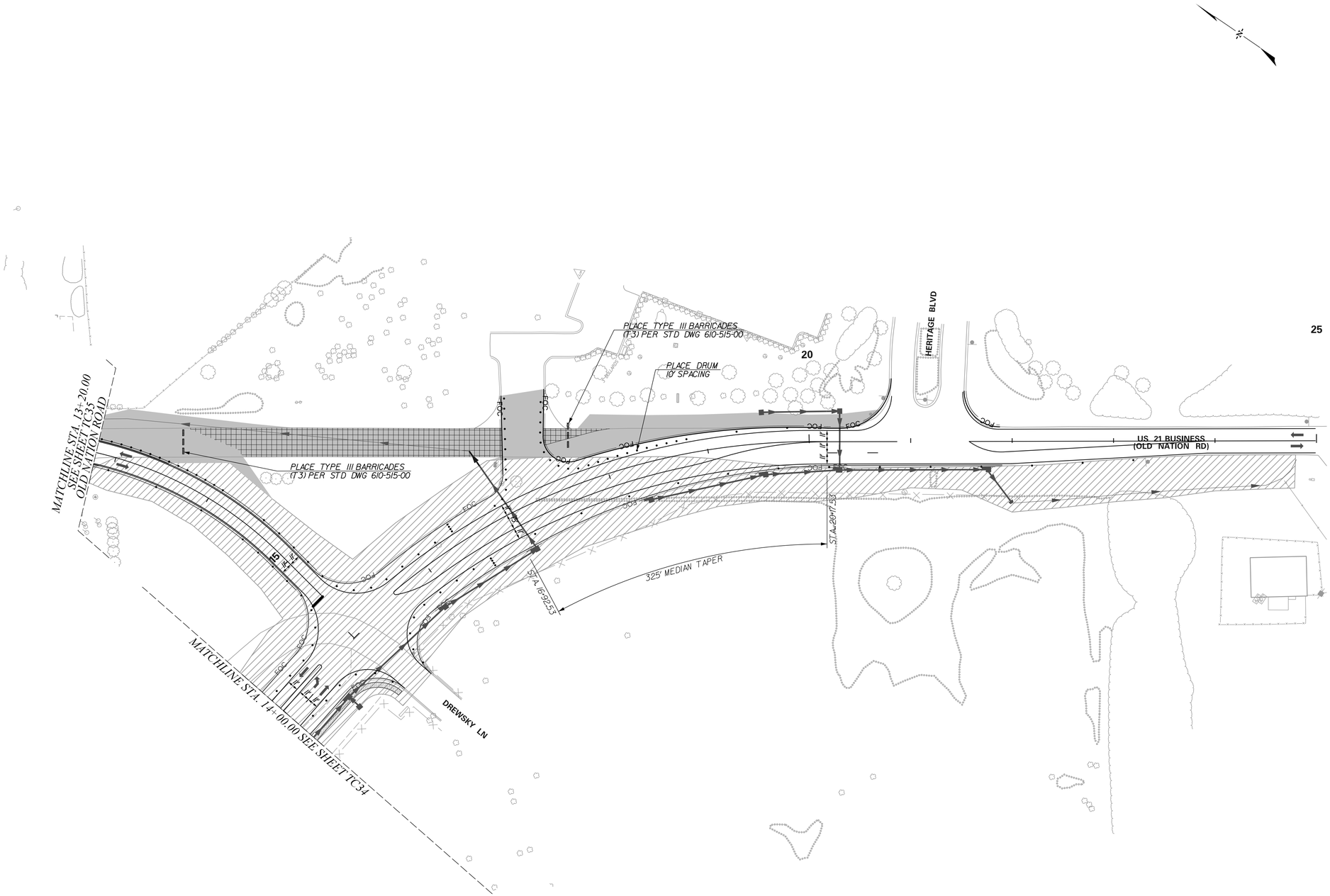
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC44



ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

- CONSTRUCTION ZONE
- PREVIOUS STAGE
- REMOVE EXIST. PAVEMENT
- PORTABLE PLASTIC DRUMS
- TYPE III BARRICADE
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. MARTIN 5/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC44

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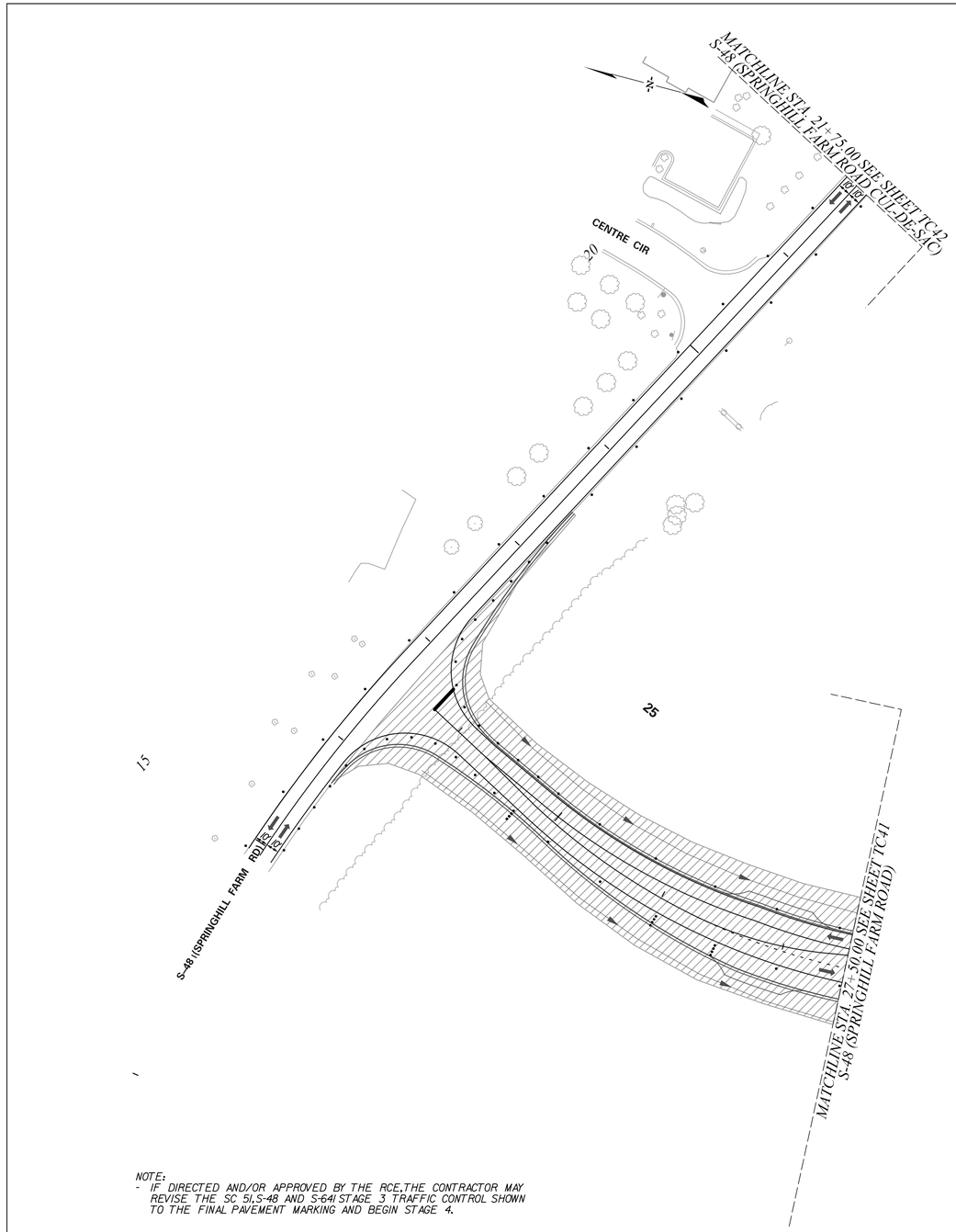
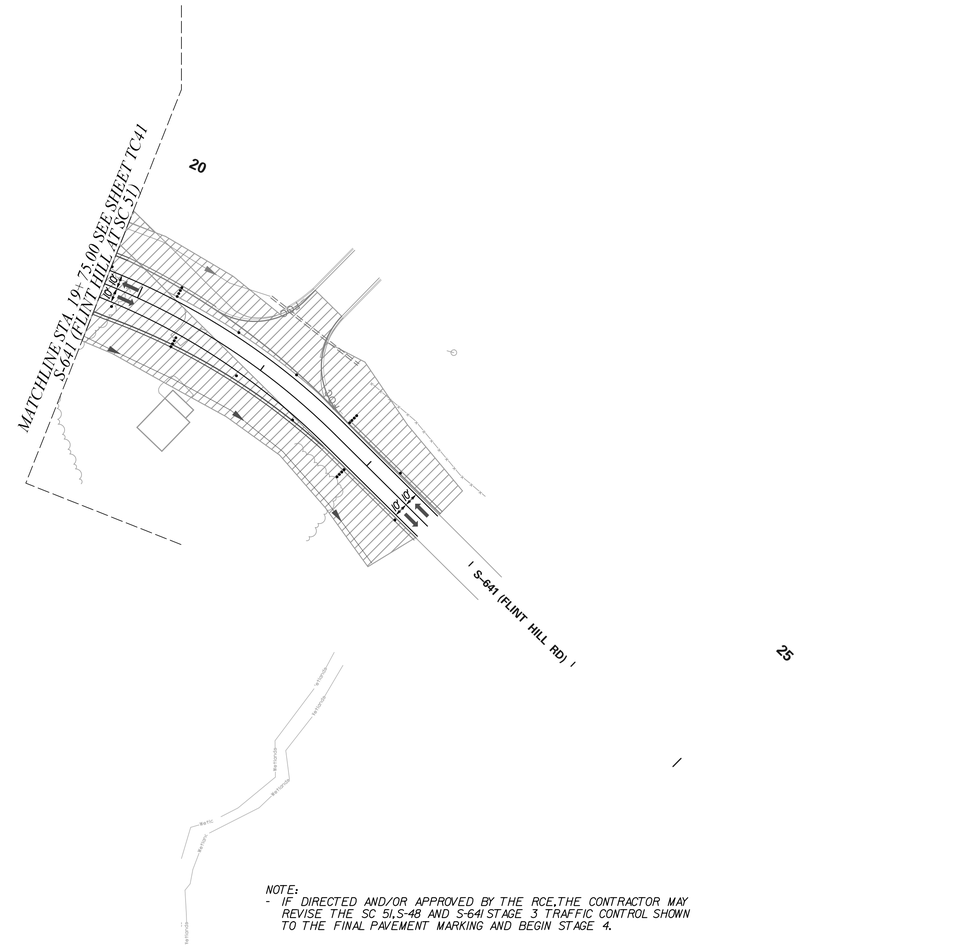
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	TC45



NOTE:
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.



NOTE:
- IF DIRECTED AND/OR APPROVED BY THE RCE,THE CONTRACTOR MAY REVISE THE SC 51,S-48 AND S-641 STAGE 3 TRAFFIC CONTROL SHOWN TO THE FINAL PAVEMENT MARKING AND BEGIN STAGE 4.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

LEGEND

CONSTRUCTION ZONE	TYPE III BARRICADE
PREVIOUS STAGE	DRAINAGE INSTALLATION
REMOVE EXIST. PAVEMENT	COMPLETED DRAINAGE
PORTABLE PLASTIC DRUMS	TEMPORY SIGNING

50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARSTEN — 7/31/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"= 50' RTE. US 21 DWG. NO. TC45

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1/10/2023

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

3 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △P PROP. ▲P W/ACT. & SIGN

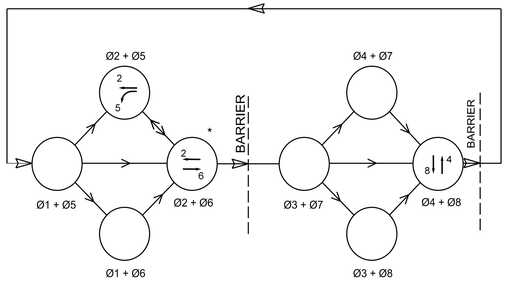
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2			4	5,6F		6			8				
LENS	◄R	R			R	◄R		R			R				
	◄Y	Y			Y	◄Y ◄FY		Y			Y				
	◄FY	G			G	◄G		G			G				
PHASE	OLA	2			4	5,OLC		6			8				
SIZE	12"	12"			12"	12"		12"			12"				
QUANTITY	1	2			2	1		2			2				

OLA=Ø2 (FYA) OLC=Ø5+Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC46

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6			Ø4 + Ø8	FLASH
2			G	G			R	Y
2F			~~FY~~	~~FY~~			~~R~~	~~Y~~
4			R	R			G	R
5,6F			~~G~~	~~FY~~			~~R~~	~~Y~~
6			R	G			R	Y
8			R	R			G	R

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING — R10–12A–30

ROUTE NUMBER	US 21 BP		S-1726	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	35	35
GRADE (%)	+2.8	+1.3	0	+2

* ESTIMATED

FILE # : SHEET # :

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
5A			5		X		X			RADAR-STOP BAR	6' X 30'		0'
8A			8		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK								
DON'T WALK								
MIN INITIAL		15		8	8	15		8
MAX INITIAL		37				37		
ADD/VEH		1.5				1.5		
VEH EXT		6.0		3.0	3.0	6.0		3.0
TIM BFR REDUC		15				15		
TIME TO REDUC		30				30		
MIN GAP		2.5				2.5		
MAX LIMIT		60		45	20	60		45
MAXIMUM 2								
YELLOW		4.2		3.6	3.0	4.2		3.6
RED CLEAR		2.0		3.3	4.4	2.0		3.3

*SET PHASE 2 AND 6 TO MAX RECALL

SOUTH CAROLINA FEEMSTER PC No. C03193 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 17971 REGISTERED PROFESSIONAL ENGINEER THOMAS W. FEEMSTER

Digitally signed by Thomas W Feemster
10/4/2022

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

SCDOT

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA, S.C.

SUBJECT TITLE: TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21/US 21 BYPASS @ S-1726 (GOLD HILL RD) / US 21 BUSINESS

CITY | COUNTY: YORK

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER | DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4767

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC47

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭
PROP. ▬

2 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

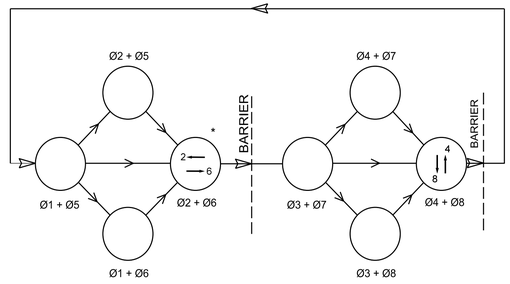
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2		4	6F	6		8				
LENS	◂R	R		R	◂R	R		R				
	◂Y	Y		Y	◂Y	Y		Y				
	◂FY	G		G	◂FY	G		G				
PHASE	OLA	2		4	OLB	6		8				
SIZE	12"	12"		12"	12"	12"		12"				
QUANTITY	1	2		2	1	2		2				

OLA=Ø2 (FYA) OLC=Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #				Ø2 + Ø6				Ø4 + Ø8	FLASH
2				G				R	Y
2F				◂FY				◂R	◂Y
4				R				G	R
6				G				R	Y
6F				◂FY				◂R	◂Y
8				R				G	R

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

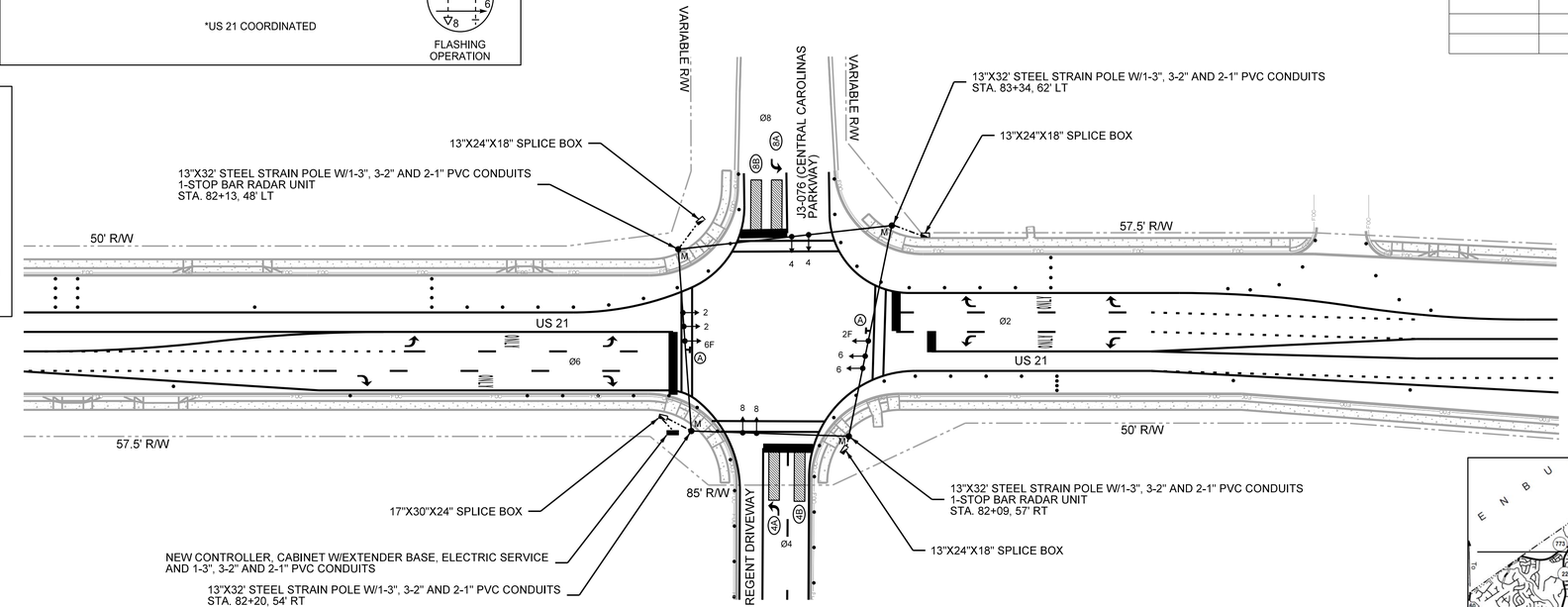
SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING — R10–12A–30

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL 9" X 15" R10-3eR 9" X 15"



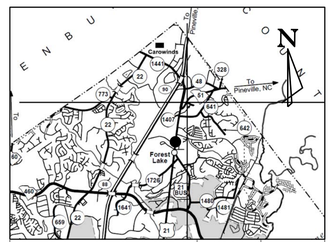
RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	OPERATION LOCK	OPERATION NON-LOCK	OPERATION PULSE	OPERATION PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DETECTION AREA DIST. FROM ℄
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
4B			4		X		X			RADAR-STOP BAR	6' X 30'		0'
8A			8		X		X			RADAR-STOP BAR	6' X 30'		0'
8B			8		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 2	4	6	8
WALK				
DON'T WALK				
MIN INITIAL	15	8	15	8
MAX INITIAL	37		37	
ADD/VEH	1.5		1.5	
VEH EXT	6.0	3.0	6.0	3.0
TIM BFR REDUC	15		15	
TIME TO REDUC	30		30	
MIN GAP	2.5		2.5	
MAX LIMIT	60	40	60	40
MAXIMUM 2				
YELLOW	4.6	3.5	4.6	3.5
RED CLEAR	1.8	2.6	1.8	2.6

*SET PHASE 2 AND 6 TO MAX RECALL



ROUTE NUMBER	US 21		J3-076	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	35	35
GRADE (%)	-1.2	-2.2	+2.0	+7.4

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — FEEMSTER PC No. C03193

Digitally signed by Thomas W Feemster
10/1/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE
TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION
US 21 @
CENTRAL CAROLINAS PKWY /
SHOPPING CENTER

CITY
COUNTY
YORK

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4666

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

2 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

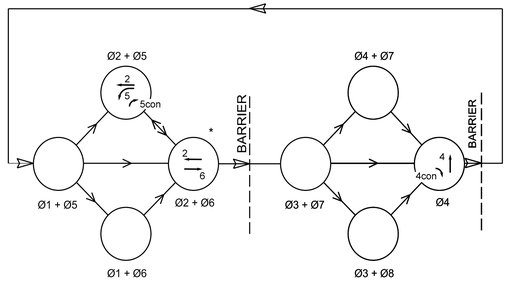
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER		2	4	4,5con	5,6F	6	6,4con		
LENS		R	R	R	◄R	R	R		
		Y	Y	Y Y►	◄Y	Y	Y Y►		
		G	G	G G►	◄FY				
					◄G	G	G G►		
PHASE		2	4	4,5	5,OLC	6	6,4		
SIZE		12"	12"	12"	12"	12"	12"		
QUANTITY		2	1	1	1	1	1		

OLA= OLC=Ø5+Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
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11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC48

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6		Ø4		FLASH
2			G	G		R		Y
4			R	R		G		R
4,5con			R/G►	R		G		R
5,6F			◄G	◄FY		◄R		◄Y
6			R	G		R		Y
6,4con			R	G		R/G►		Y

SIGNS

Ⓐ 

R3–5L

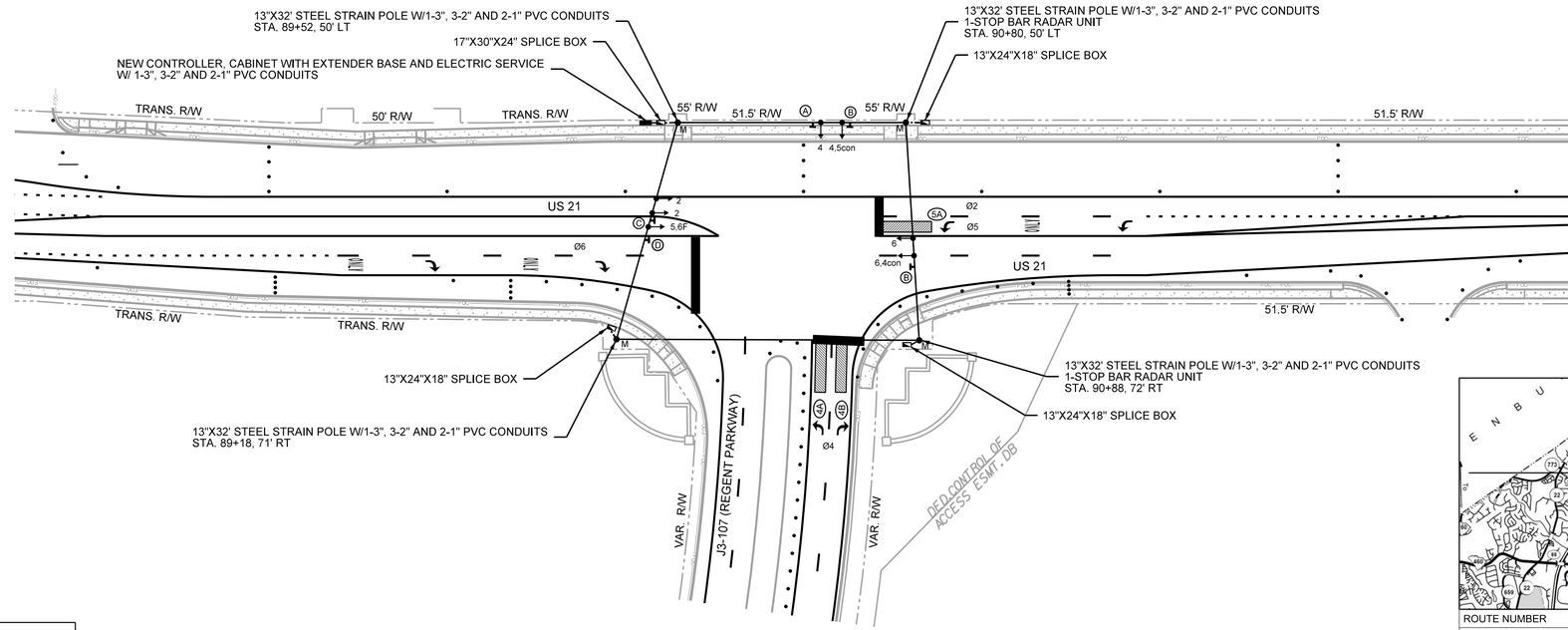
Ⓑ 

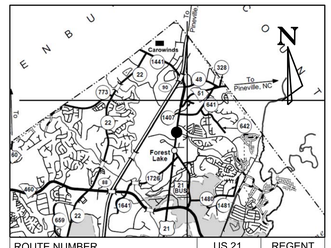
R3–5R

Ⓒ 
R3–4–24

Ⓓ 

R10–12A–30





ROUTE NUMBER	US 21		REGENT	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	-	35
GRADE (%)	-1.2	-2.2	-	+3.0

* ESTIMATED

FILE # : SHEET # :

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
4B			4		X		X			RADAR-STOP BAR	6' X 30'		0'
5A			5		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 2	4	5	6
WALK				
DON'T WALK				
MIN INITIAL	15	8	8	15
MAX INITIAL	37			37
ADD/VEH	1.5			1.5
VEH EXT	6.0	3.0	3.0	6.0
TIM BFR REDUC	15			15
TIME TO REDUC	30			30
MIN GAP	2.5			2.5
MAX LIMIT	60	30	20	60
MAXIMUM 2				
YELLOW	4.6	3.4	3.0	4.6
RED CLEAR	2.1	3.9	3.9	2.1

*SET PHASE 2 AND 6 TO MAX RECALL

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 17971 THOMAS W. FEEMSTER

Thomas W. Feemster
10/11/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE: TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21 @ REGENT PARKWAY

CITY: COUNTY: YORK

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER — DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4669

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭
PROP. ▬

3 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

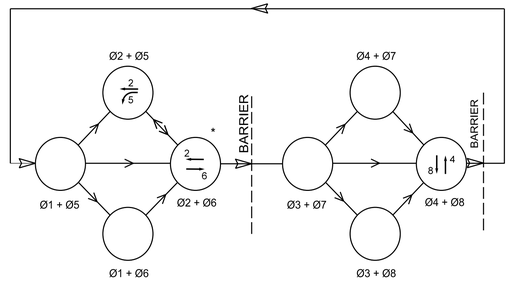
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2		4	5,6F	6		8				
LENS	◄R ◄Y ◄FY	R Y G		R Y G	◄R ◄Y ◄FY ◄G	R Y G		R Y G				
PHASE	OLA	2		4	5,OLC	6		8				
SIZE	12"	12"		12"	12"	12"		12"				
QUANTITY	1	2		2	1	2		2				

OLA=Ø2 (FYA) OLC=Ø5+Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED

FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
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5. SET PHASES 2 AND 6 TO MINIMUM RECALL
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8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
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11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

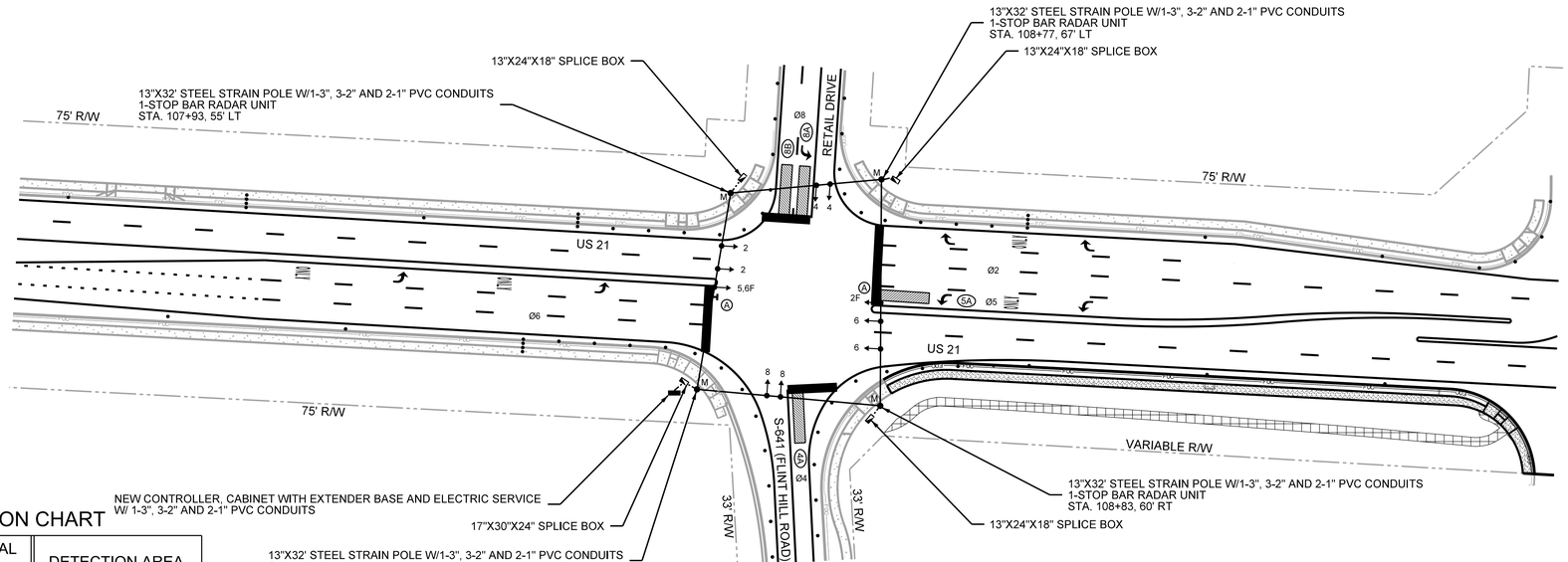
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC49

N

SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6			Ø4 + Ø8	FLASH
2F			~~FY~~	~~FY~~			~~R~~	~~Y~~
2			G	G			R	Y
4			R	R			G	R
5,6F			~~G~~	~~FY~~			~~R~~	~~Y~~
6			R	G			R	Y
8			R	R			G	R

SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING R10–12A–30



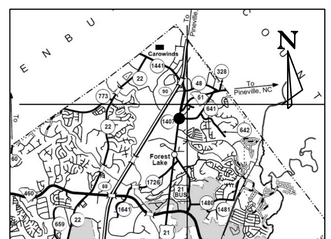
RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
4B			4		X		X			RADAR-STOP BAR	6' X 30'		0'
5A			5		X		X			RADAR-STOP BAR	6' X 30'		0'
8A			8		X		X			RADAR-STOP BAR	6' X 30'		0'
8B			8		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 2		4	5	6		8
WALK							
DON'T WALK							
MIN INITIAL	15		8	8	15		8
MAX INITIAL	37				37		
ADD/VEH	1.5				1.5		
VEH EXT	6.0		3.0	3.0	6.0		3.0
TIM BFR REDUC	15				15		
TIME TO REDUC	30				30		
MIN GAP	2.5				2.5		
MAX LIMIT	60		40	20	60		40
MAXIMUM 2							
YELLOW	4.6		3.5	3.0	4.6		3.5
RED CLEAR	3.9		3.3	3.5	3.9		3.3

*SET PHASE 2 AND 6 TO MAX RECALL



ROUTE NUMBER	US 21		S-641	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	25	35
GRADE (%)	+1.5	-1.4	+1.8	+2.0

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

DocuSigned by: Thomas W. Feemster PE No. 17971 10/1/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED TWF
DRAWN TWF
CHECKED
REVIEWED
RECOMMENDED

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE
TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION
US 21 @ S-641 (FLINT HILL RD) / RETAIL DR

CITY
COUNTY YORK

APPROVED BY
DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4665

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC50

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ☐
PROP. ■

2 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △P PROP. ▲P W/ACT. & SIGN

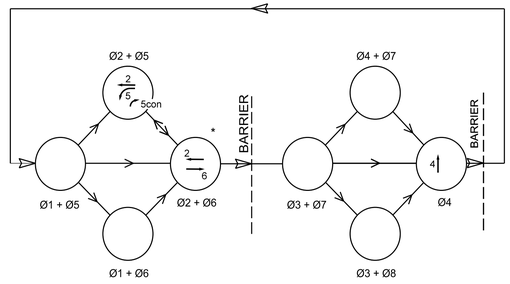
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER		2	4A	4,5con	5,6F	6				
LENS		R	◄R	R	◄R	R				
		Y	◄Y	Y Y►	◄FY	Y				
		G	◄G	G G►	◄G	G				
PHASE		2	4	4,5	5,OLC	6				
SIZE		12"	12"	12"	12"	12"				
QUANTITY		2	2	1	1	2				

OLA= OLC=Ø5+Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.
12. SIGNAL PLAN SHOWS STAGE 2 TRAFFIC CONTROL. SIGNAL HEADS, SIGNS AND VEHICLE DETECTION WILL NEED MINOR ADJUSTMENTS DURING STAGE 3 TRAFFIC CONTROL (SEE SHEET TC 39 FOR MINOR ADJUSTMENTS TO TEMPORARY PAVEMENT MARKINGS)

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6			Ø4		FLASH
2			G	G			R		Y
4A			◄R	◄R			◄G		◄R
4,5con			R G►	R			G		R
5,6F			◄G	◄FY			◄R		◄Y
6			R	G			R		Y

SIGNS

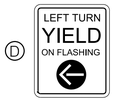
Ⓐ 

R3–5L

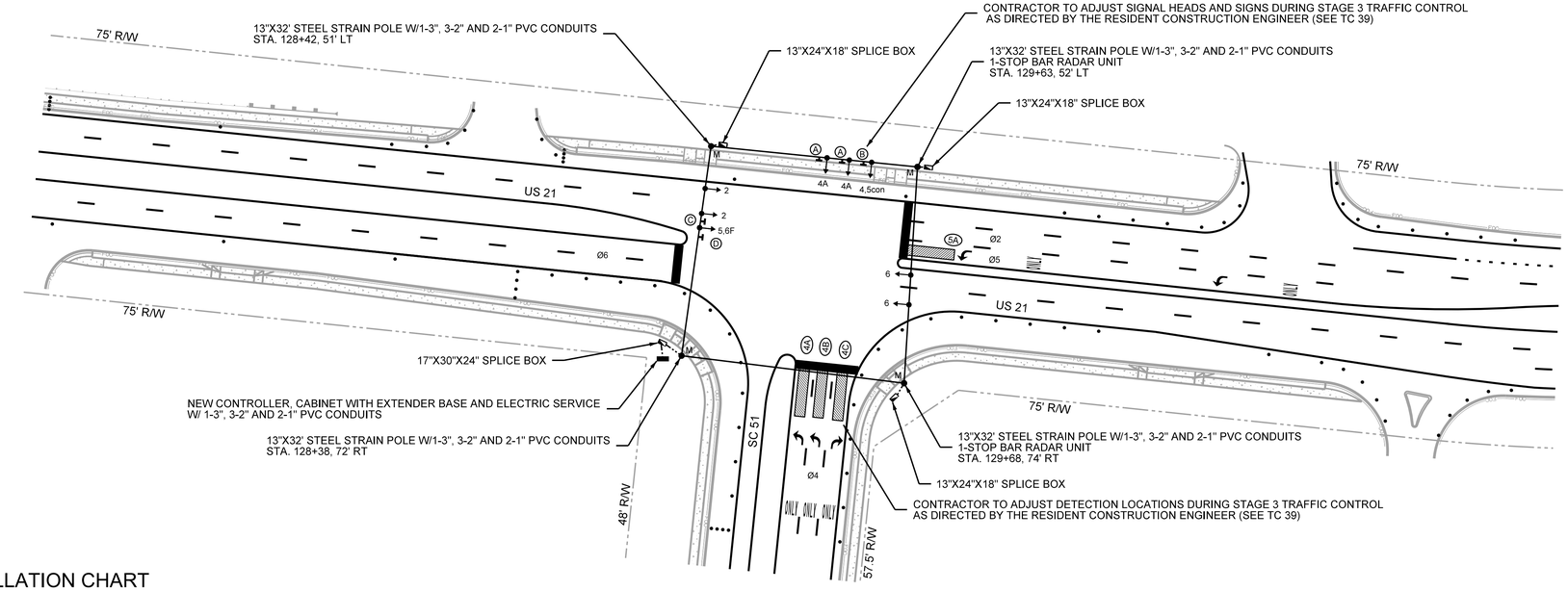
Ⓑ 

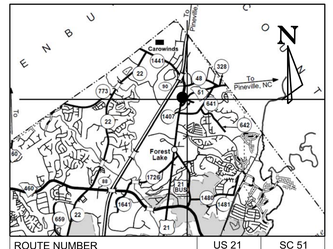
R3–5R

Ⓒ 
R3–4–24

Ⓓ 

R10–12A–30





ROUTE NUMBER	US 21		SC 51	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45		45
GRADE (%)	-1.4	+1.4		+0

* ESTIMATED

FILE # : SHEET # :

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
4B			4		X		X			RADAR-STOP BAR	6' X 30'		0'
4C			4		X		X			RADAR-STOP BAR	6' X 30'		0'
5A			5		X		X			RADAR-STOP BAR	6' X 30'		0'

NOTE:
SIGNAL PLAN SHOWS STAGE 2 TRAFFIC CONTROL. SIGNAL HEADS, SIGNS AND VEHICLE DETECTION WILL NEED MINOR ADJUSTMENTS DURING STAGE 3 TRAFFIC CONTROL (SEE SHEET TC 39 FOR MINOR ADJUSTMENTS TO TEMPORARY PAVEMENT MARKINGS)

SIGNAL TIMINGS

INTERVAL	PHASE 2		PHASE 4	PHASE 5	PHASE 6		PHASE 8
WALK							
DON'T WALK							
MIN INITIAL	15		8	8	15		
MAX INITIAL	37				37		
ADD/VEH	1.5				1.5		
VEH EXT	6.0		3.0	3.0	6.0		
TIM BFR REDUC	15				15		
TIME TO REDUC	30				30		
MIN GAP	2.5				2.5		
MAX LIMIT	60		40	20	60		
MAXIMUM 2							
YELLOW	4.5		4.4	3.0	4.5		
RED CLEAR	2.1		3.9	3.7	2.1		

*SET PHASE 2 AND 6 TO MAX RECALL

SOUTH CAROLINA FEEMSTER PC No. C03193 CERTIFICATE OF AUTHORIZATION

Digitally signed by Thomas W Feemster
Date: 2023.10.11

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE
TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION
US 21 @ SC 51

CITY | COUNTY: YORK

APPROVED BY
DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4706

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SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭
PROP. ▬

4 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

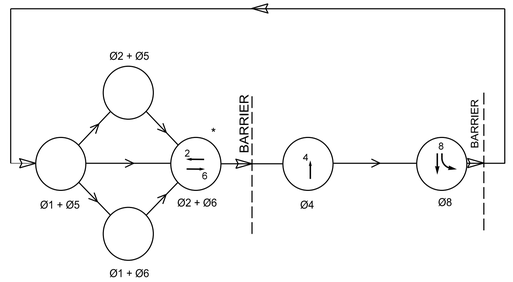
PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2		4A	4B	6F	6		8A	8B				
LENS	◂R ◂Y ◂FY	R Y G		R Y G ◂G	R Y G	◂R ◂Y FY ◂FY	R Y G		R ◂Y ◂G	R Y G				
PHASE	OLA	2		4	4	OLC	6		8	8				
SIZE	12"	12"		12"	12"	12"	12"		12"	12"				
QUANTITY	1	2		1	1	1	2		1	1				

OLA=Ø2 (FYA) OLC=Ø6 (FYA)
OLB= OLD=
METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*_____ STREET COORDINATED



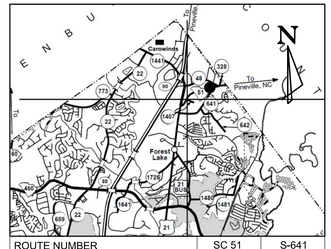
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TC51

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #				Ø2 + Ø6		Ø4		Ø8	FLASH
2				G		R		R	Y
2F				◂FY		◂R		◂R	◂Y
4A				R		G		R	R
4B				R		G		R	R
6				G		R		R	Y
6F				◂FY		◂R		◂R	◂Y
8A				R		R		◂G	R
8B				R		R		G	R

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING — R10–12A–30



ROUTE NUMBER	SC 51		S-641	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	45	45
GRADE (%)	+2.5	-2.5	-1.0	+1.0

* ESTIMATED

FILE # : SHEET # :

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X	DETECTION AREA NO.OF TURNS	DETECTION AREA DIST. FROM ℄
2A			2	X			X			RADAR-SET BACK	6' X 6'		330'
4A			4		X		X			RADAR-STOP BAR	6' X 30'		0'
6A			6	X			X			RADAR-SET BACK	6' X 6'		330'
8A			8		X		X			RADAR-STOP BAR	6' X 30'		0'
8B			8		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 2	4	6	8
WALK		7		
DON'T WALK				
MIN INITIAL	15	8	15	8
MAX INITIAL	37		37	
ADD/VEH	1.5		1.5	
VEH EXT	6.0	3.0	6.0	3.0
TIM BFR REDUC	15		15	
TIME TO REDUC	30		30	
MIN GAP	2.5		2.5	
MAX LIMIT	60	25	60	40
MAXIMUM 2				
YELLOW	4.7	4.5	4.7	4.5
RED CLEAR	3.8	3.3	3.8	3.3

SOUTH CAROLINA FEEMSTER PC No. C03193 CERTIFICATE OF AUTHORIZATION

Digitally signed by Thomas W Feemster
Date: 2023.10.11 10:41:22 -04'00'

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE: TEMPORARY TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: SC 51 @ S-48 (STATESVIEW RD) / S-641 (FLINT HILL RD)

CITY | COUNTY: YORK

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

APPROVED BY
DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4704

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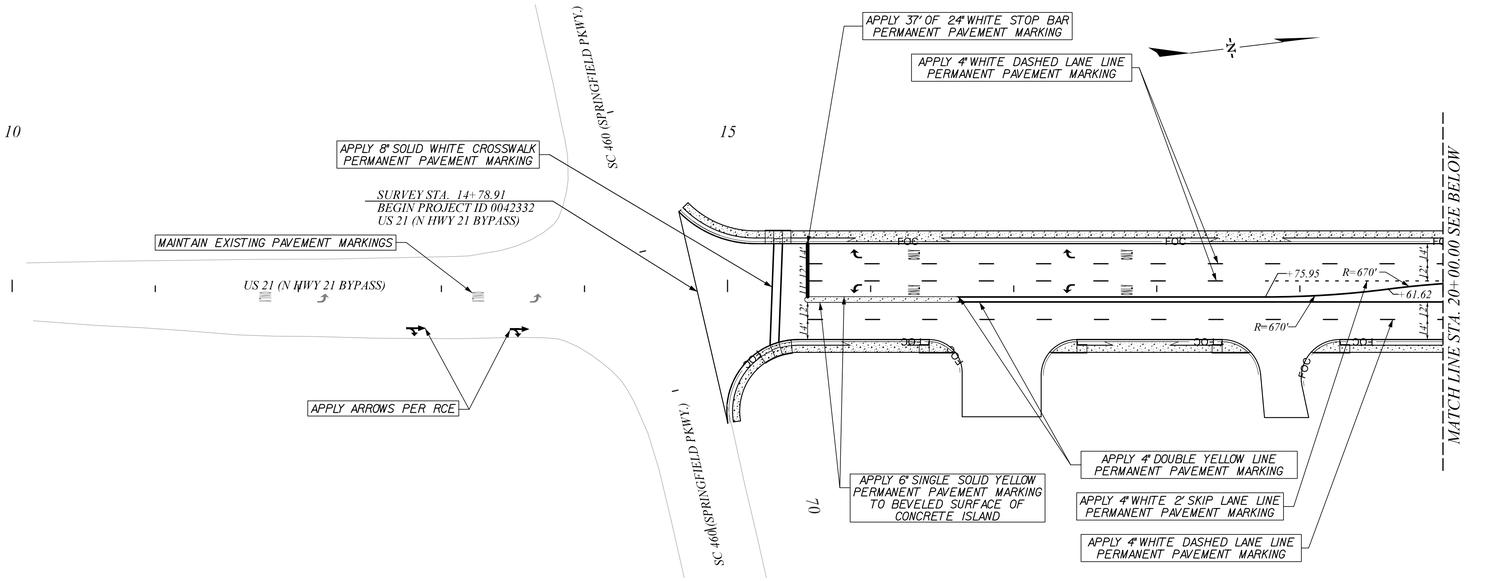
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	PM 1

GENERAL NOTES (APPLY TO ALL PAVEMENT MARKING SHEETS):

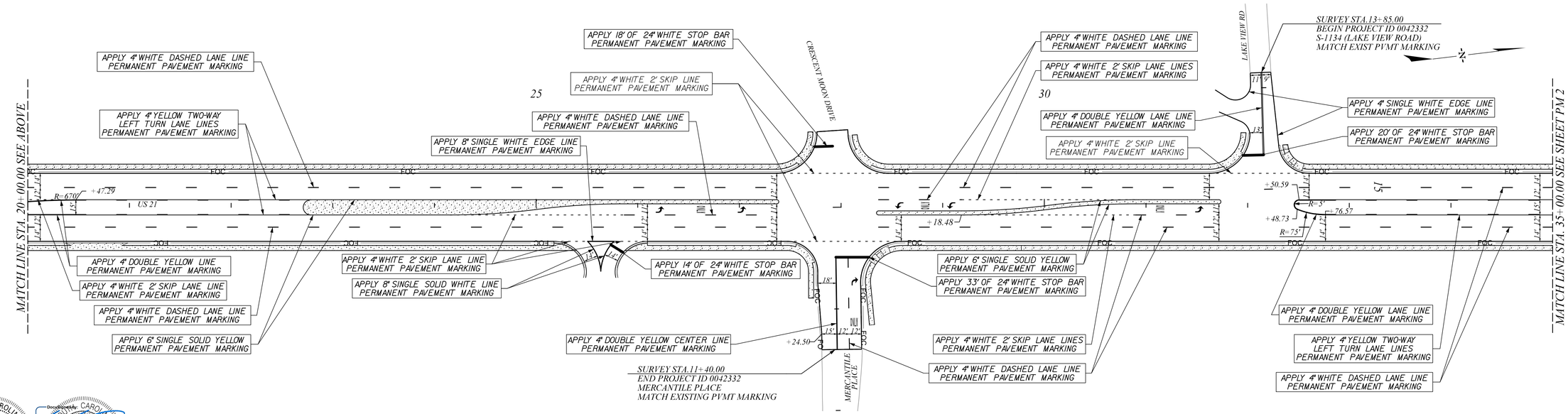
1. SEE SCDOT STANDARD DRAWINGS 625-305-00 THROUGH 625-425-00 FOR PAVEMENT MARKING DETAILS
2. SEE SCDOT STANDARD DRAWINGS 630-105-00 THROUGH 630-215-00 FOR RAISED PAVEMENT MARKING DETAILS
3. CONTRACTOR SHALL PLACE RAISED PAVEMENT MARKERS PER SCDOT STANDARD DRAWING AND AS DIRECTED BY THE RCE
4. CONTRACTOR SHALL PLACE "FOR ARROWS AND ONLY(S)" WHERE SHOWN ON THE PAVEMENT MARKINGS PLANS AND AS DIRECTED BY THE RCE PER STANDARD DRAWINGS 625-410-00
5. CONTRACTOR SHALL PLACE CONCRETE ISLAND/MEDIAN PAINTING PER STANDARD DRAWING 630-215-00
6. STATIONS ON THE PAVEMENT MARKING PLANS ARE FOR INFORMATION ONLY AND MAY BE ADJUSTED BY THE RCE
7. CENTERLINE NOT SHOWN FOR CLARITY



US 21 (N HWY 21 BYPASS)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

50 0 50 100
scale feet



US 21 (N HWY 21 BYPASS)

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

CHRISTOPHER E. CARLSTED No. 22780 SOUTH CAROLINA PROFESSIONAL ENGINEER

1/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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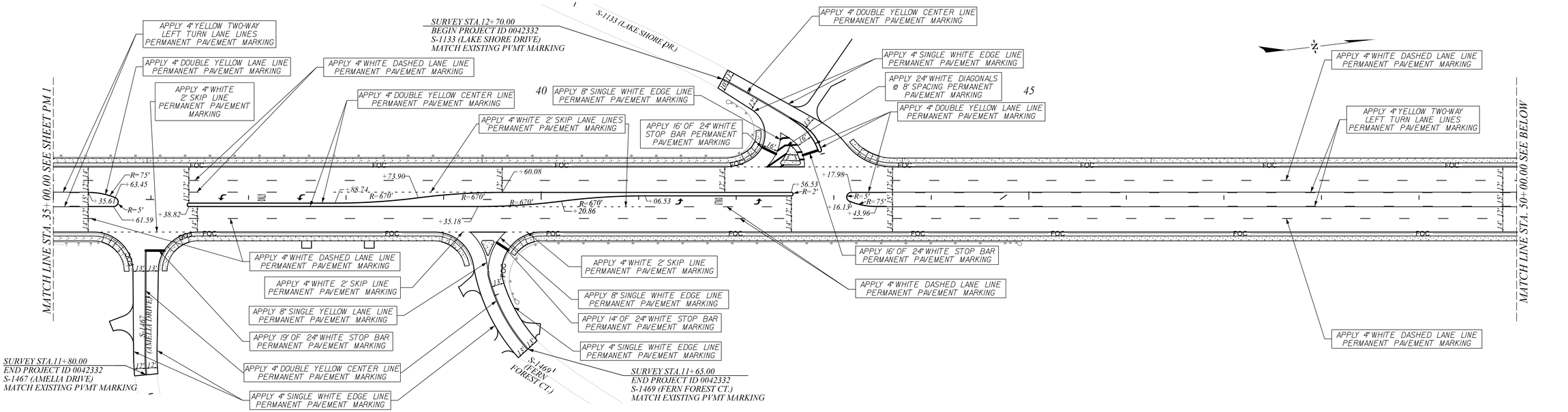
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 2



US 21 (N HWY 21 BYPASS)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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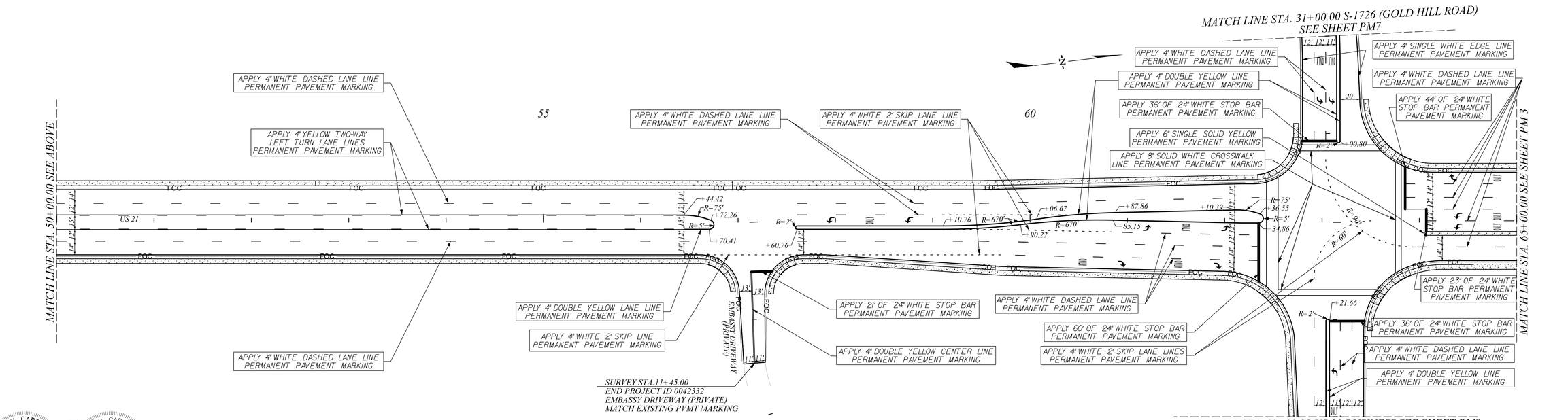
scale feet



US 21 (N HWY 21 BYPASS)

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN
Date: 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1			
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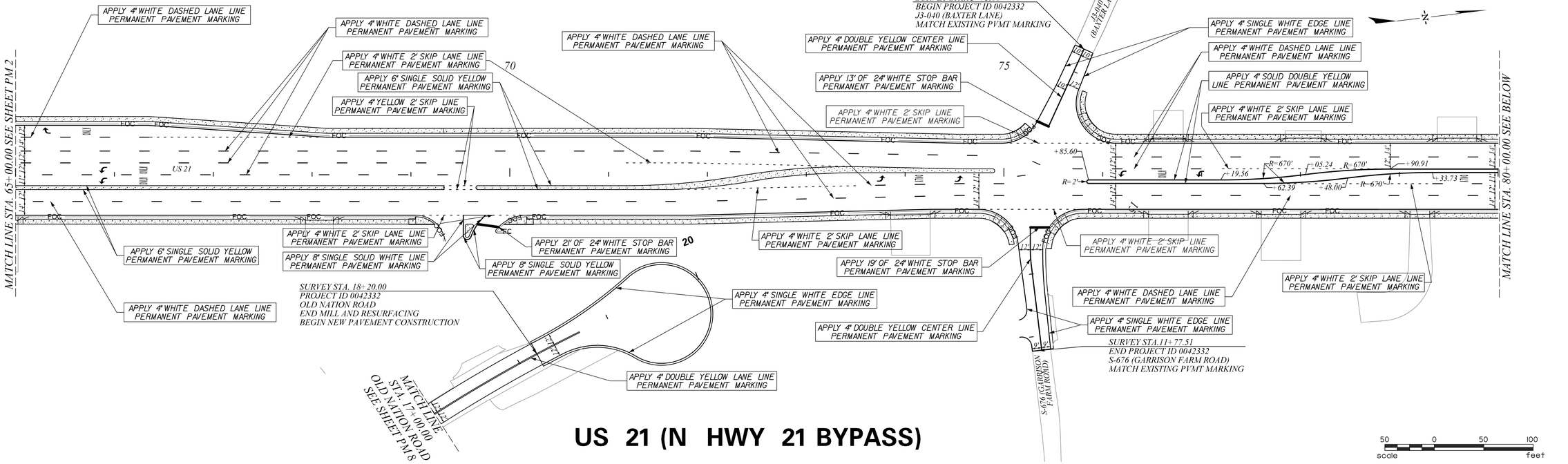
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 3



US 21 (N HWY 21 BYPASS)

scale 50 0 50 100 feet

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
1			
2			
3			
4			
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6			

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — No. 22780 — CHRISTOPHER E. CARLSTED — 1/11/2023

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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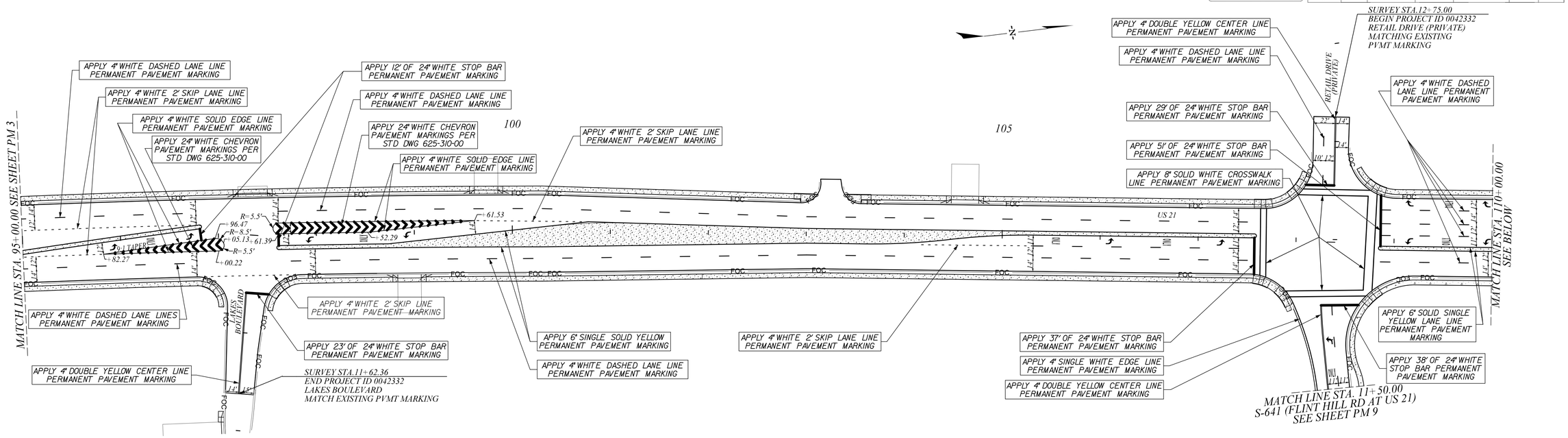
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 4



US 21 (N HWY 21 BYPASS)

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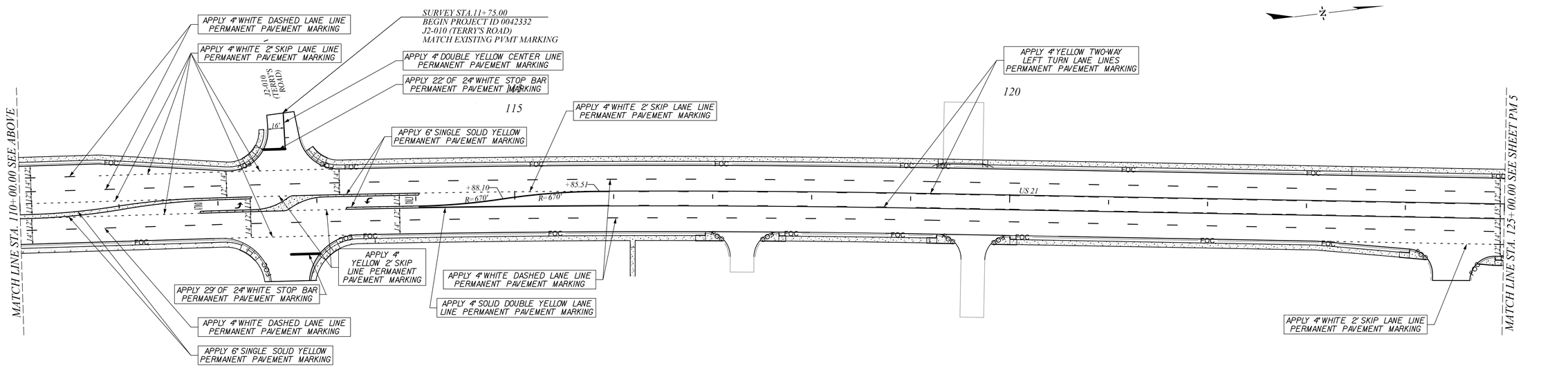
scale feet



US 21 (N HWY 21 BYPASS)

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEDT 1/11/2023

DocuSigned by: 5020C2B70647405...

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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1/4/2023

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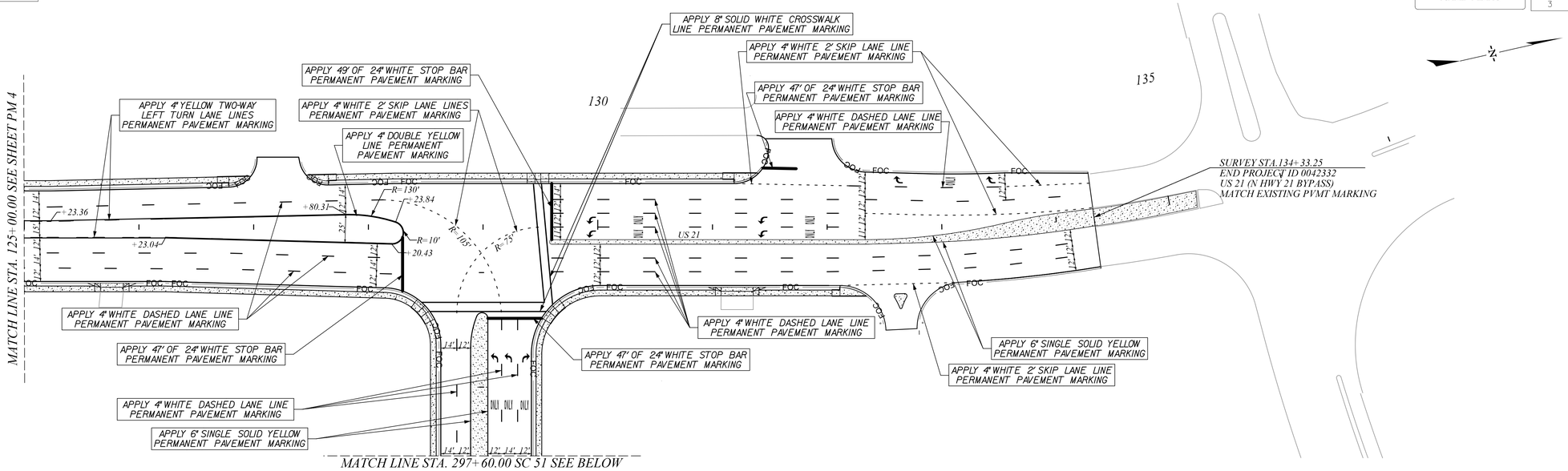
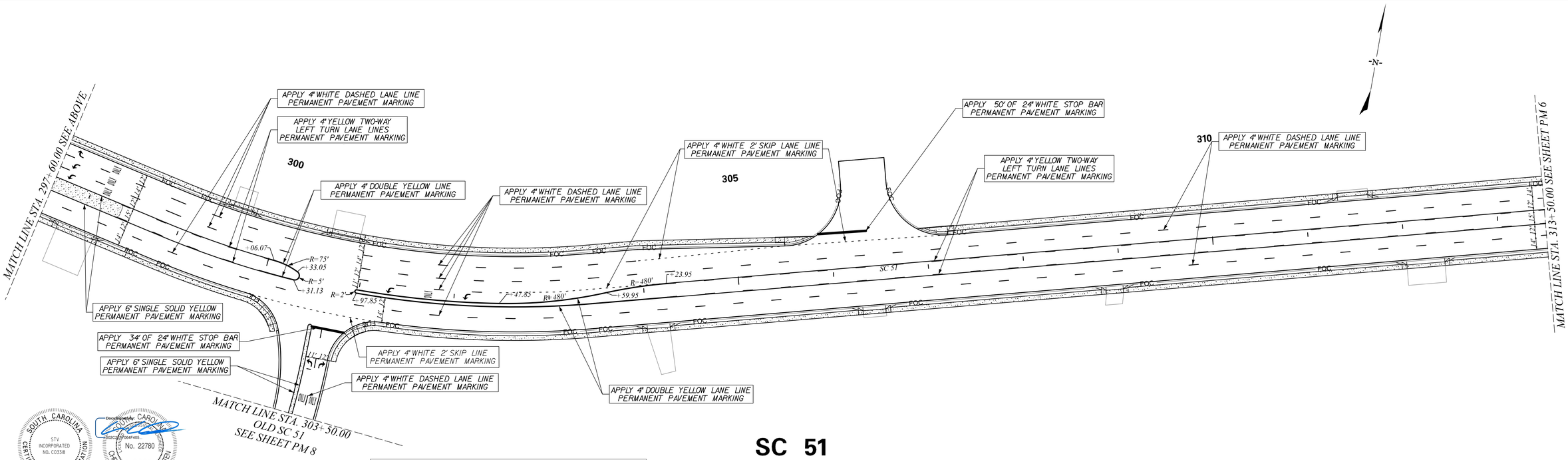
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 5



US 21 (N HWY 21 BYPASS)

50 0 50 100
scale feet



SC 51

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	PM 6

MATCH LINE STA. 28+75.00
S-48 (SPRINGHILL FARM ROAD RELOC.)
SEE SHEET PM 10

MATCH LINE STA. 313+50.00 SEE SHEET PM 5

315 320 325 330

APPLY 4" YELLOW TWO-WAY LEFT TURN LANE LINES PERMANENT PAVEMENT MARKING
APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" WHITE 2' SKIP LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" SOLID WHITE EDGE LINE PERMANENT PAVEMENT MARKING
APPLY 36' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW LINE PERMANENT PAVEMENT MARKING
APPLY 6" SINGLE SOLID YELLOW PERMANENT PAVEMENT MARKING
APPLY 4" WHITE 2' SKIP LANE LINE PERMANENT PAVEMENT MARKING
APPLY 57' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING
APPLY 4" WHITE 2' SKIP LANE LINE PERMANENT PAVEMENT MARKING
APPLY 42' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING
APPLY 8" SOLID WHITE CROSSWALK LINE PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW CENTER LINE PERMANENT PAVEMENT MARKING
APPLY 4" SINGLE WHITE EDGE LINE PERMANENT PAVEMENT MARKING
APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW LANE LINE PERMANENT PAVEMENT MARKING
APPLY 29' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING
APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" YELLOW TWO-WAY LEFT TURN LANE LINES PERMANENT PAVEMENT MARKING

MATCH LINE STA. 329+75.00 SEE BELOW

MATCH LINE STA. 17+50.00
S-641 (FLINT HILL AT SC 51)
SEE SHEET NO. PM 9

SC 51

SC 51

50 0 50 100
scale feet

MATCH LINE STA. 01+80.00
ANDREW L. TUCKER
SEE SHEET PM 10

MATCH LINE STA. 329+75.00 SEE SHEET ABOVE

330 335 340

APPLY 4" SINGLE WHITE EDGE LINE PERMANENT PAVEMENT MARKING
APPLY 14' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING
APPLY 4" WHITE 2' SKIP LINE PERMANENT PAVEMENT MARKING
APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW CENTER LINE PERMANENT PAVEMENT MARKING
APPLY 4" YELLOW TWO-WAY LEFT TURN LANE LINES PERMANENT PAVEMENT MARKING
APPLY 4" WHITE DASHED LANE LINE (NCDOT - WHITE SKIP LANE LINES) PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" WHITE 2' SKIP LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" DOUBLE YELLOW LANE LINE PERMANENT PAVEMENT MARKING
APPLY 4" SOLID WHITE LANE LINE (NCDOT - WHITE LANE LINE) PERMANENT PAVEMENT MARKING
APPLY 4" YELLOW TWO-WAY LEFT TURN LANE LINES (NCDOT - YELLOW SKIP CENTER LINES & YELLOW CENTER LINES) PERMANENT PAVEMENT MARKING

CONTRACTOR TO REMOVE EXISTING MERGE ARROWS USING MEDIA BLASING OUTSIDE MILLING LIMITS (AS NEEDED)

SURVEY STA. 345+81.79
END PROJECT ID 0042332
SC 51 (HIGHWAY 51)
MATCH EXISTING PVMT MARKING

NOTE:
- CONTRACTOR THE APPLY NC PAVEMENT MARKINGS PER NCDOT STDS 1205.01 & 1205.02
- CONTRACTOR TO COORDINATE WITH MILLER FARMS PROJECT/DEVELOPMENT ON PAVEMENT MARKING SHOULD MILLER FARMS BE UNDER CONSTRUCTION AT TIME OF APPLICATION OF THESE PAVEMENT MARKINGS.

SC 51

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION
DocuSigned by: CHRISTOPHER G. MASTLOPE — NORTH CAROLINA — PROFESSIONAL ENGINEER — No. 32542 — CHRISTOPHER G. MASTLOPE — 6/8/2023

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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6/8/2023

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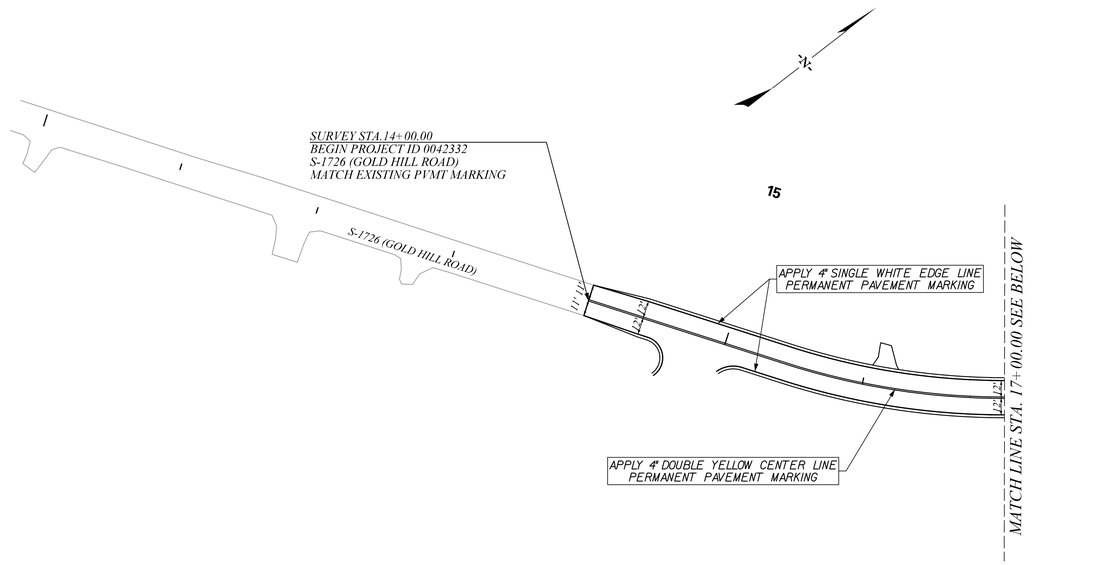
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 7



S–1726 (GOLD HILL RD.)

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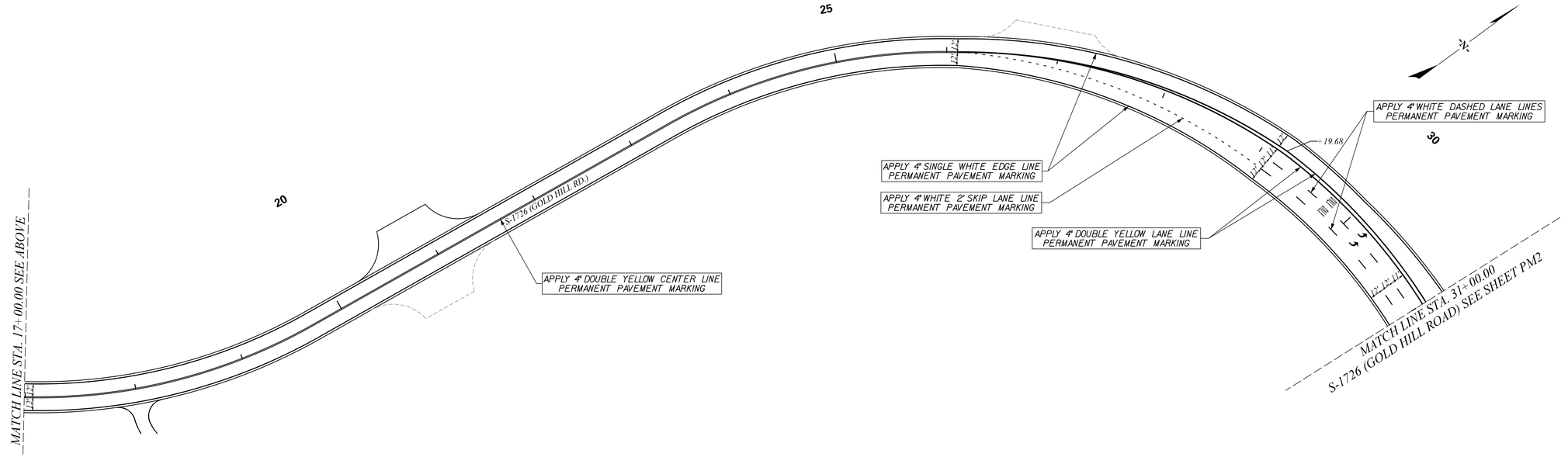
scale feet



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Docu Signed by: SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHAUTHER E. CARLSTEN 11/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

S–1726 (GOLD HILL RD.)

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 8

FINAL PLANS

MATCH LINE STA. 17+00.00
SEE SHEET PM 3

SURVEY STA.14+40.00
PROJECT ID 0042332
OLD NATION ROAD
END NEW PAVEMENT CONSTRUCTION
BEGIN MILL AND RESURFACING

APPLY 4" WHITE 2" SKIP LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" DOUBLE YELLOW CENTER LINE PERMANENT PAVEMENT MARKING

APPLY 4" SINGLE WHITE EDGE LINE PERMANENT PAVEMENT MARKING

APPLY 26' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING

APPLY 4" WHITE 2" SKIP LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" DOUBLE YELLOW LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" WHITE 2" SKIP LANE LINE PERMANENT PAVEMENT MARKING

APPLY 4" DOUBLE YELLOW LANE LINE PERMANENT PAVEMENT MARKING

APPLY 24" YELLOW DIAGONAL PERMANENT PAVEMENT MARKING

APPLY 28' OF 24" WHITE STOP BAR PERMANENT PAVEMENT MARKING

MAINTAIN EXISTING PAVEMENT MARKINGS

SURVEY STA. 21+90.00
END PROJECT ID 0042332
RELOC. US 21 BUSINESS (OLD NATION ROAD)
MATCH EXISTING PVMT MARKING

MATCH LINE STA. 12+00.00 SEE SHEET PM2

US 21 BUSINESS /OLD NATION ROAD

scale 50 0 50 100 feet

SURVEY STA.308+30.00
PROJECT ID 0042332
OLD SC 51
END NEW PAVEMENT CONSTRUCTION
BEGIN MILL AND RESURFACING

SURVEY STA.315+05.00
PROJECT IS 0042332
OLD SC 51
END MILL AND RESURFACING
BEGIN NEW PAVEMENT CONSTRUCTION

APPLY 4" SOLID DOUBLE YELLOW CENTER LINE PERMANENT PAVEMENT MARKING

APPLY 4" SINGLE WHITE EDGE LINE PERMANENT PAVEMENT MARKING

APPLY 4" WHITE 2' SKIP LANE LINE PERMANENT PAVEMENT MARKING

APPLY 6" SINGLE SOLID YELLOW PERMANENT PAVEMENT MARKING

APPLY 4" WHITE DASHED LANE LINE PERMANENT PAVEMENT MARKING

MATCH LINE STA. 303+50.00
SEE SHEET PM 5

RELOC. OLD SC 51

OLD SC 51

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

CHRISTOPHER E. CARLSTED No. 22780 SOUTH CAROLINA PROFESSIONAL ENGINEER

1/11/2023

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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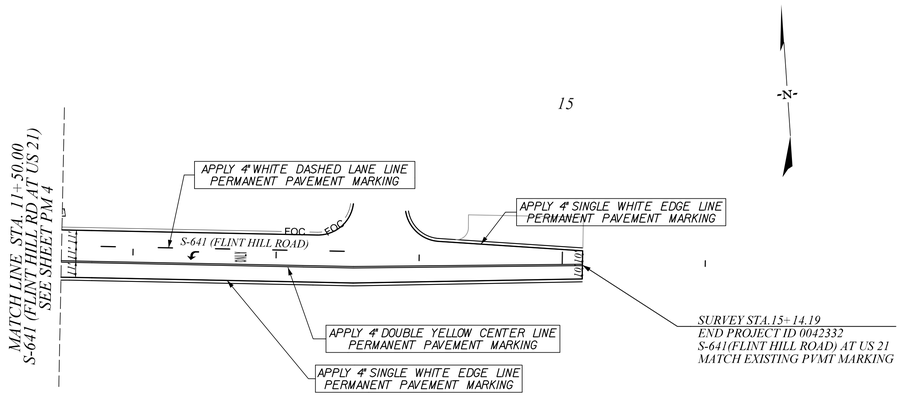
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 9



S–641 (FLINT HILL RD. AT US 21)

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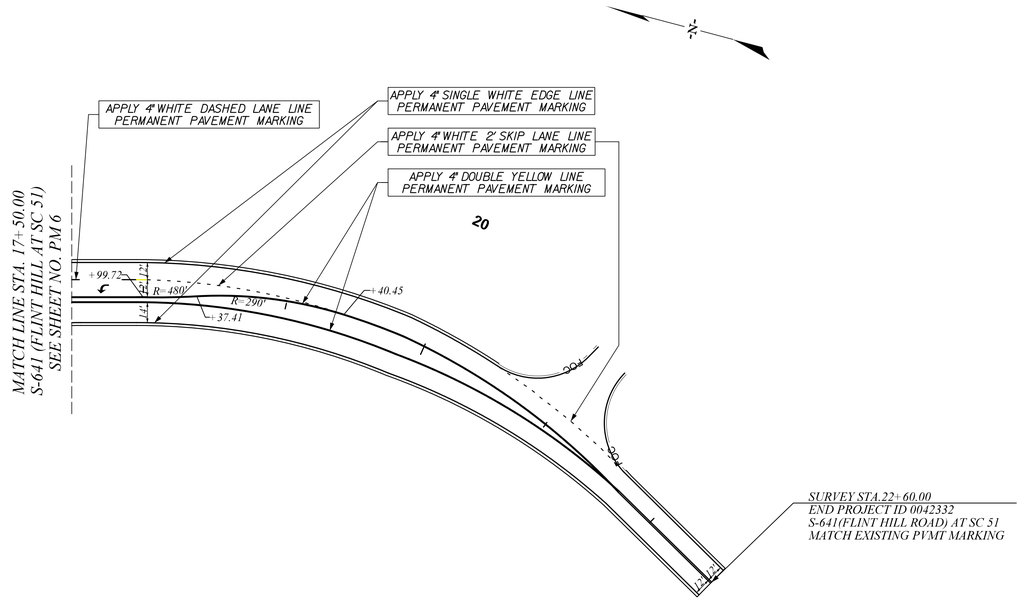
scale feet



S–641 (FLINT HILL RD. AT SC 51)

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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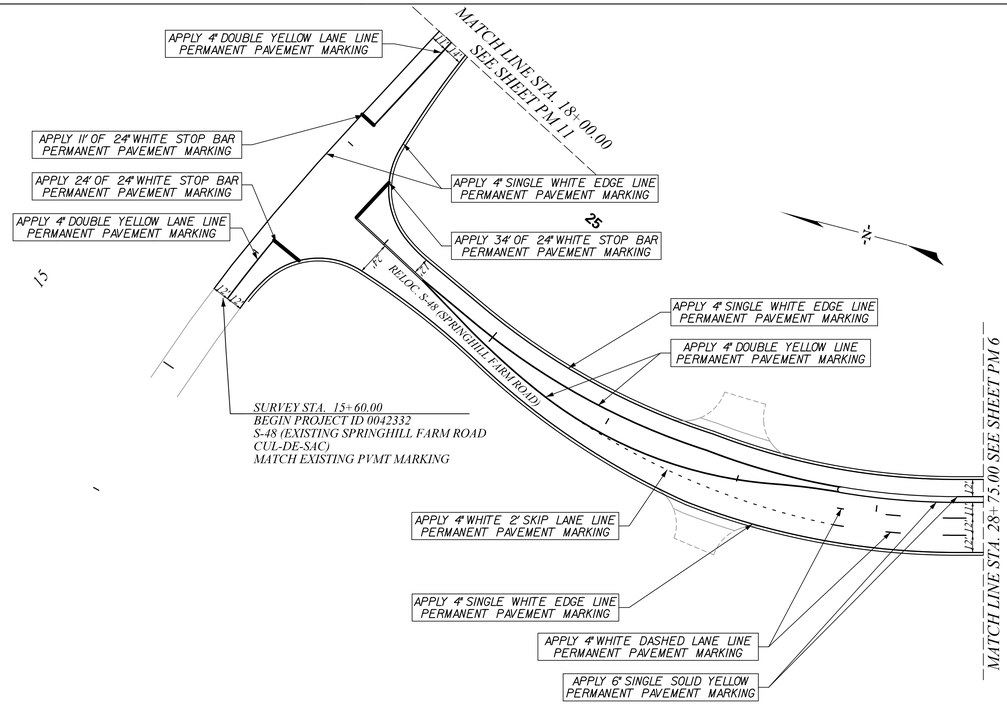
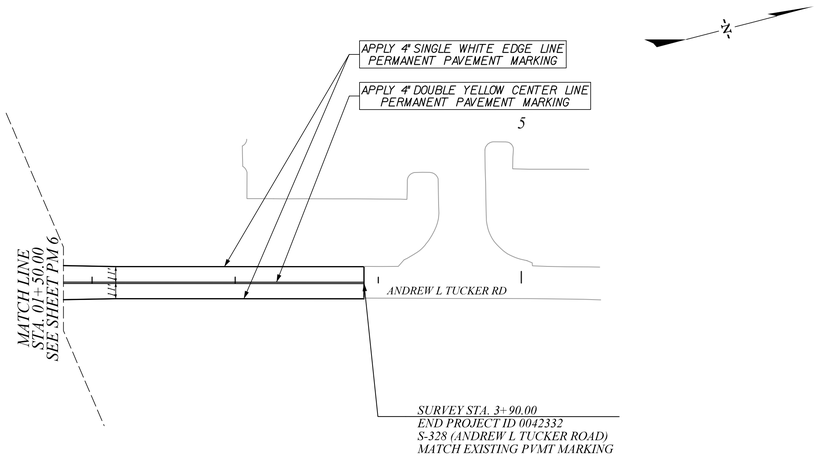
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	PM 10



S–48 (SPRING HILL FARM RD. RELOC.)

50 0 50 100
scale feet



S–328 (ANDREW L. TUCKER RD.)

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03338

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTED 1/11/2023

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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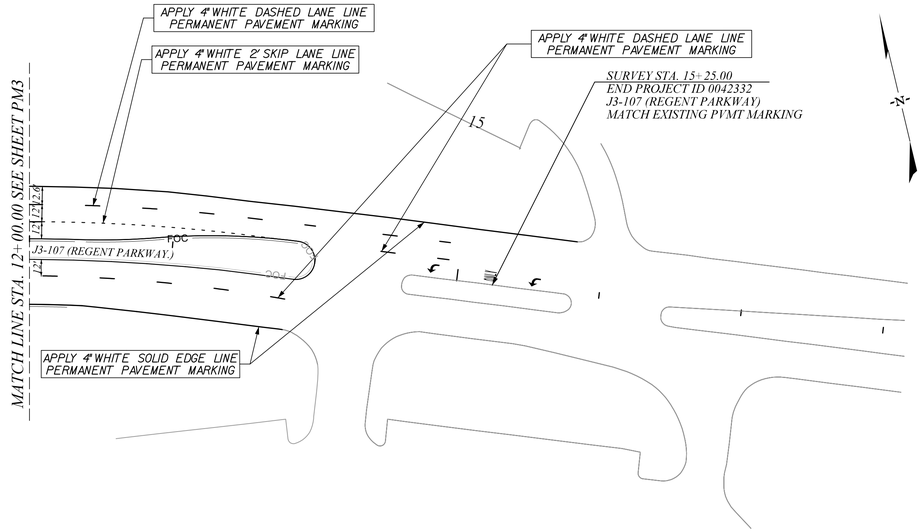
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	PM 11



J3–107 (REGENT PKWY.)

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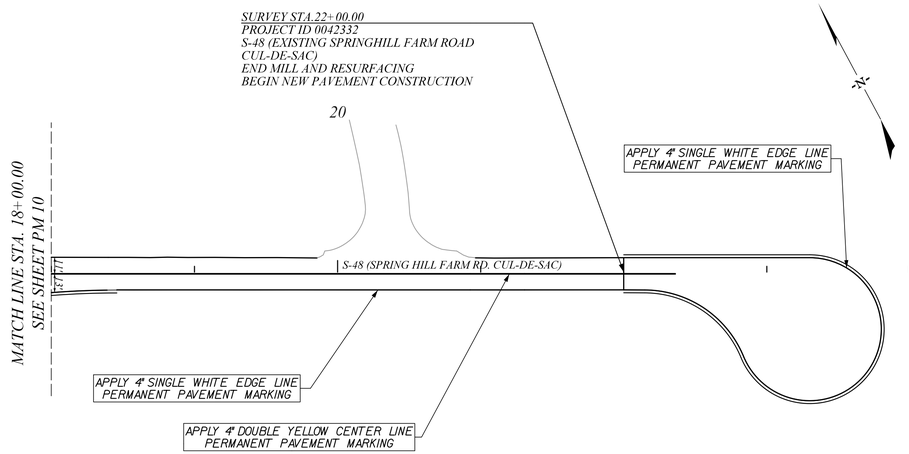
scale feet



S–48 (SPRING HILL FARM RD. CUL–DE–SAC)

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	II149-004	US 21	SNI

ITEMIZED LISTING OF ESTIMATED QUANITITIES

FLAT SHEET, REFLECTORIZED, FIXED SIZE AND MESSAGE SIGNS

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)
6510105		**TYPE III REFLECTIVE SHEETING**			
R1-1-18	TYPE III	18 X 18	1.86		
R1-1-24	"	24 X 24	3.31		
R1-1-30	"	30 X 30	5.18	6	31.08
R1-1-36	"	36 X 36	7.46	17	126.82
R1-1-48	"	48 X 48	13.25		
R1-2-18	"	18 X 18 X 18	0.97		
R1-2-24	"	24 X 24 X 24	1.73		
R1-2-30	"	30 X 30 X 30	2.71		
R1-2-36	"	36 X 36 X 36	3.90		
R1-2-48	"	48 X 48 X 48	6.93		
R1-2-60	"	60 X 60 X 60	10.83		
R1-3P-18	TYPE III	18 X 6	0.75	3	2.25
R2-1-24	TYPE III	24 X 30	5.00	6	30.00
R3-2-24	TYPE III	24 X 24	4.00	3	12.00
R3-7-30	TYPE III	30 X 30	6.25	1	6.25
R4-7-24	TYPE III	24 X 30	5.00	4	20.00
R5-1-30	TYPE III	30 X 30	6.25	4	25.00
R6-1-36	TYPE III	36 X 12	3.00	2	6.00
R22-1-24	TYPE III	24 X 18	3.00	1	3.00
R22-2-24	TYPE III	24 X 18	3.00	1	3.00
R22-4-108	TYPE III	108 X 36	27.00	1	27.00
M1-1-24	TYPE III	24 X 24	4.00	6	24.00
M1-4-24	TYPE III	24 X 24	4.00	21	84.00
M1-5-30	TYPE III	30 X 24	5.00	10	50.00
M2-1-21	TYPE III	21 X 15	2.19	9	19.71
M3-1-24	TYPE III	24 X 12	2.00	10	20.00
M3-2-24	TYPE III	24 X 12	2.00	2	4.00
M3-3-24	TYPE III	24 X 12	2.00	5	10.00
M3-4-24	TYPE III	24 X 12	2.00	2	4.00
M4-3-24	TYPE III	24 X 12	2.00	6	12.00
M4-4-24	TYPE III	24 X 12	2.00	3	6.00
M4-5-24	TYPE III	24 X 12	2.00	6	12.00
M5-1-21	TYPE III	21 X 15	2.19	3	6.57
M6-1-21	TYPE III	21 X 15	2.19	15	32.85
M6-3-21	TYPE III	21 X 15	2.19	5	10.95
W1-2-30	TYPE III	30 X 30	6.25	1	6.25
W1-4-30	TYPE III	30 X 30	6.25	2	12.50
W1-10-30	TYPE III	30 X 30	6.25	1	6.25
W3-1-30	TYPE III	30 X 30	6.25	1	6.25
W3-3-36	TYPE III	36 X 36	9.00	16	144.00
W11-13-30	TYPE III	30 X 30	6.25	2	12.50
W14-1-30	TYPE III	30 X 30	6.25	3	18.75
W14-2-30	TYPE III	30 X 30	6.25	2	12.50
W14-2a-30	TYPE III	36 X 8	2.00	4	8.00

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)
TOTAL				6510105	815.48

6510106		ENCLOSED LENS, TYPE III, FLAT SHEET, SIZE DETERMINED BY MESSAGE			
SIGN NUMBER	SIGN SURFACE	SIZE (IN.) WDTH X HGTH	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)
D1-3-8 #1	TYPE III	78 X 48	26.00	2	52.00
D1-3-8 #2	TYPE III	78 X 48	26.00	1	26.00
D3-1	TYPE III	69 X 12	5.75	1	5.75
D3-1	TYPE III	63 X 12	5.25	9	47.25
D3-1	TYPE III	54 X 12	4.50	1	4.50
D3-1	TYPE III	45 X 12	3.75	1	3.75
D3-1	TYPE III	63 X 12	5.25	1	5.25
D3-1	TYPE III	54 X 12	4.50	1	4.50
D3-1	TYPE III	72 X 12	6.00	1	6.00
D3-1	TYPE III	45 X 12	3.75	1	3.75
D3-1	TYPE III	90 X 12	7.50	1	7.50
D3-1	TYPE III	54 X 12	4.50	1	4.50
D3-1	TYPE III	45 X 12	3.75	1	3.75
D3-1	TYPE III	54 X 12	4.50	1	4.50
D3-1	TYPE III	45 X 12	3.75	1	3.75
D3-1	TYPE III	45 X 12	3.75	1	3.75
D3-1	TYPE III	54 X 12	4.50	1	4.50
D3-1	TYPE III	54 X 12	4.50	1	4.50
TOTAL				6510106	195.50

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTON
Date: 2023.10.11 16:44:40 -04'00'
SOUTH CAROLINA
No. 22780
10/11/2023
CHRISTOPHER E. CARLSTON

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	SN2

ITEMIZED LISTING OF ESTIMATED QUANITITIES

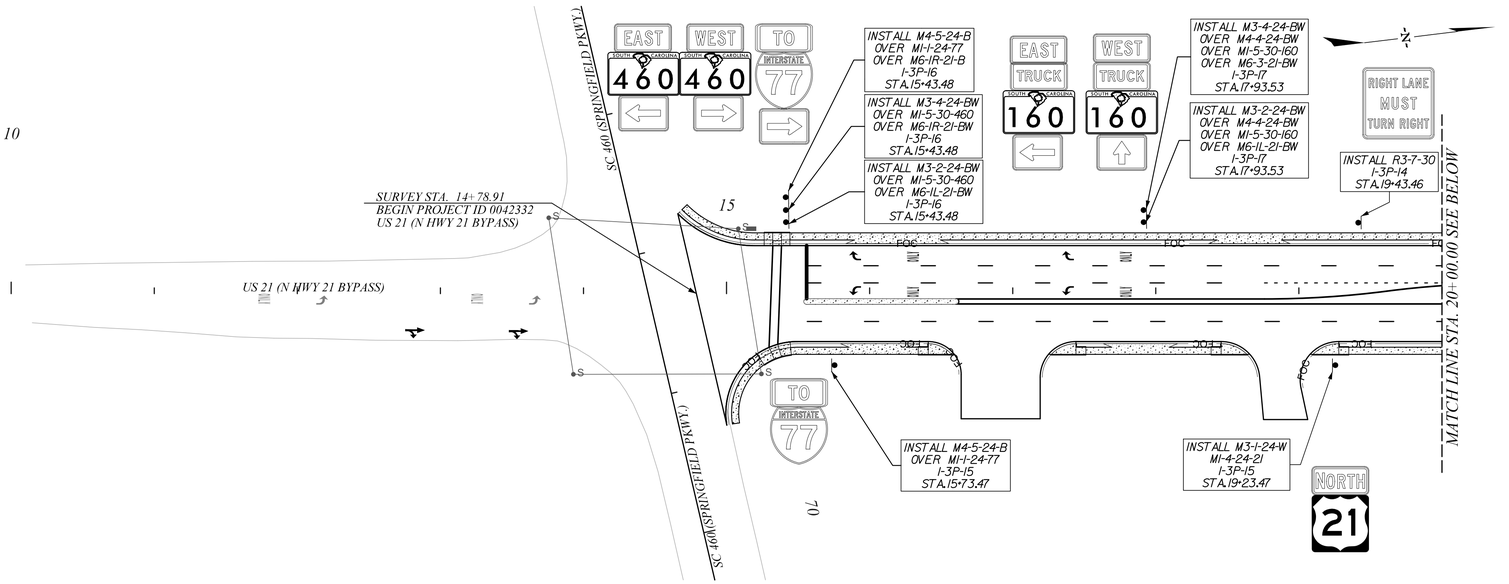
MULTIPLE PANEL SIGN ATTACHED TO MULTIPLE PANEL SIGN WITH TWO 5.00 FT. 3P U-SECTION INCLUDING SUPPORTS				
6080200	PANELS NOT REQUIRING ANY COPY REPOSITIONING COMPLETE WITH NUMERALS AND "EXIT COPY"			
SIGN NUMBER	STATION	SIGN SURFACE TYPE	SIZE (FEET) WIDTH X HEIGHT	AREA (SQ. FT.)

DocuSign Envelope ID: 6646F10F-04F2-4BF9-8148-1A3839BBBA67

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	SN 3

GENERAL NOTES (APPLY TO ALL SIGNING SHEETS):

1. CONTRACTOR SHALL REMOVE EXISTING SIGNS IN CONFLICT WITHIN THE PROJECT LIMITS AS DIRECTED BY THE RCE.CONTRACTOR SHALL RETAIN AND RESET EXISTING SIGNS AS NOTED IN THE PLANS OR AS DIRECTED BY THE RCE
2. STATIONING ON PLANS ARE FOR INFORMATION ONLY AND MAY BE ADJUSTED BY THE RCE
3. SEE SCDOT STANDARD DRAWINGS 650-105-00 THRU 651-120-00 FOR SIGNING DETAILS
4. NEW SIGN PLACEMENT MAY BE ADJUSTED BY THE RCE BASED ON SITE CONDITIONS
5. SIGN DEPICTIONS SHOWN ARE NOT TO SCALE AND ARE FOR INFORMATION ONLY
6. CENTERLINE NOT SHOWN FOR CLARITY



US 21 (N HWY 21 BYPASS)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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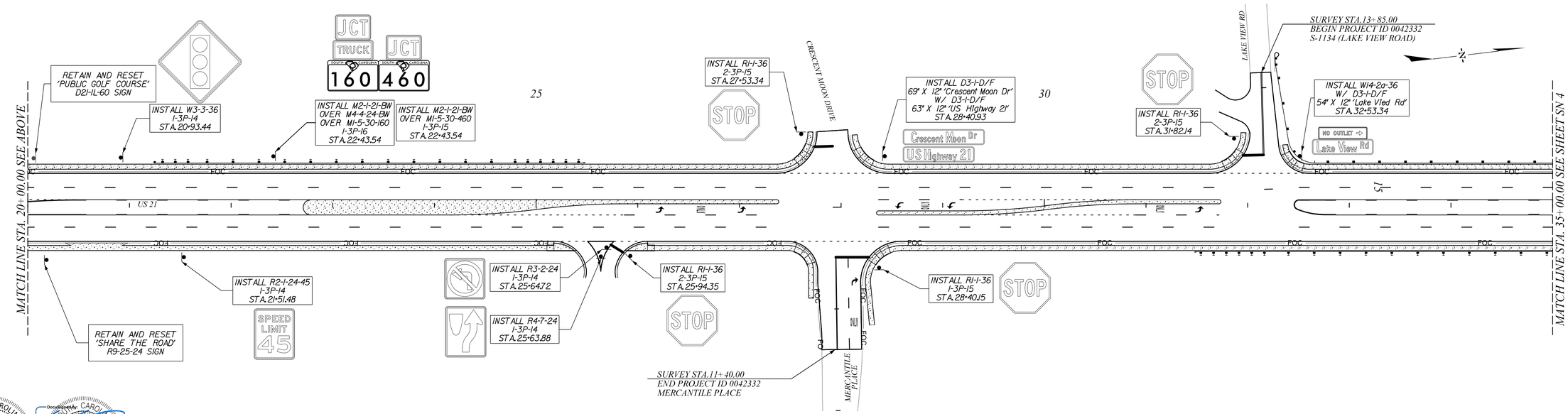
scale feet



US 21 (N HWY 21 BYPASS)

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

Document Verify CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTED 1/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023

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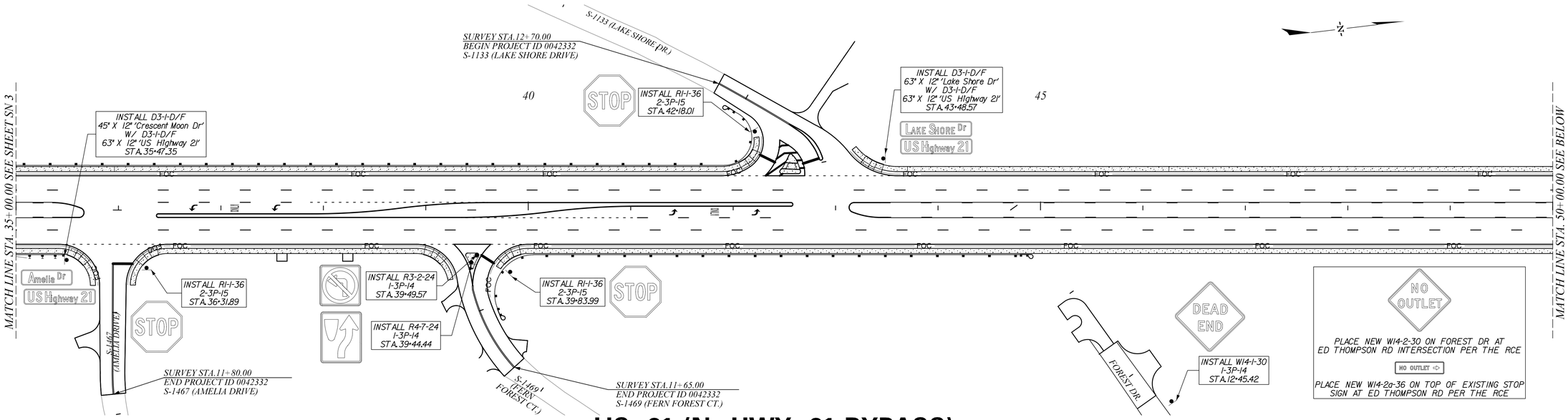
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	SN 4



US 21 (N HWY 21 BYPASS)

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET

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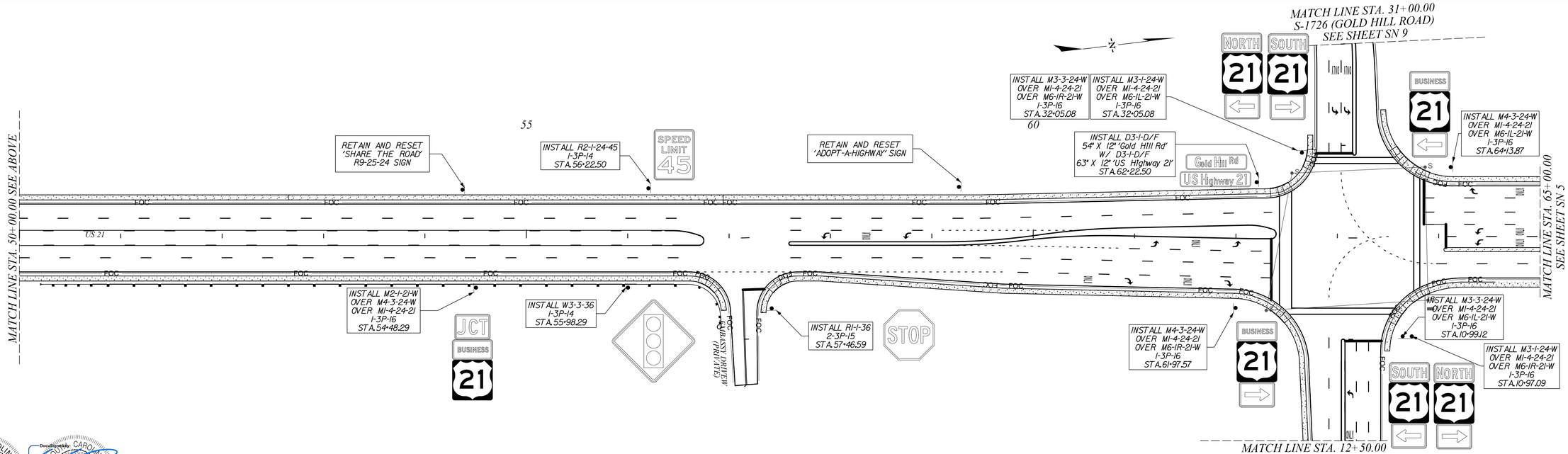
scale feet



US 21 (N HWY 21 BYPASS)

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 10/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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10/10/2023

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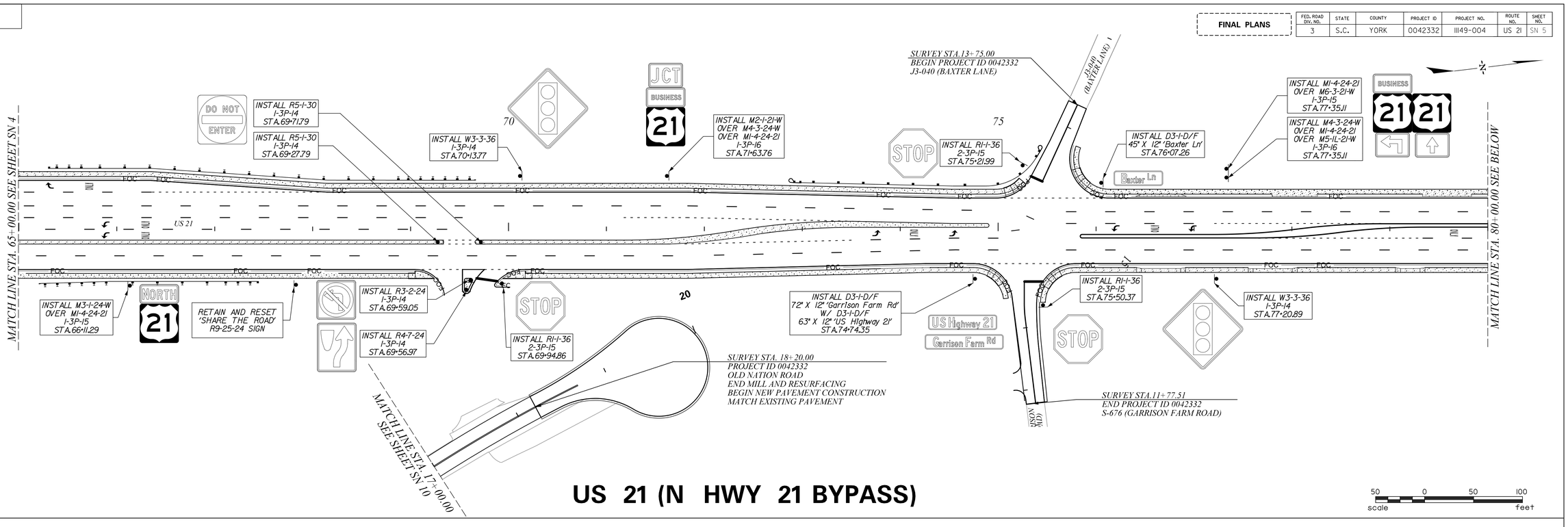
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	SN 5



US 21 (N HWY 21 BYPASS)

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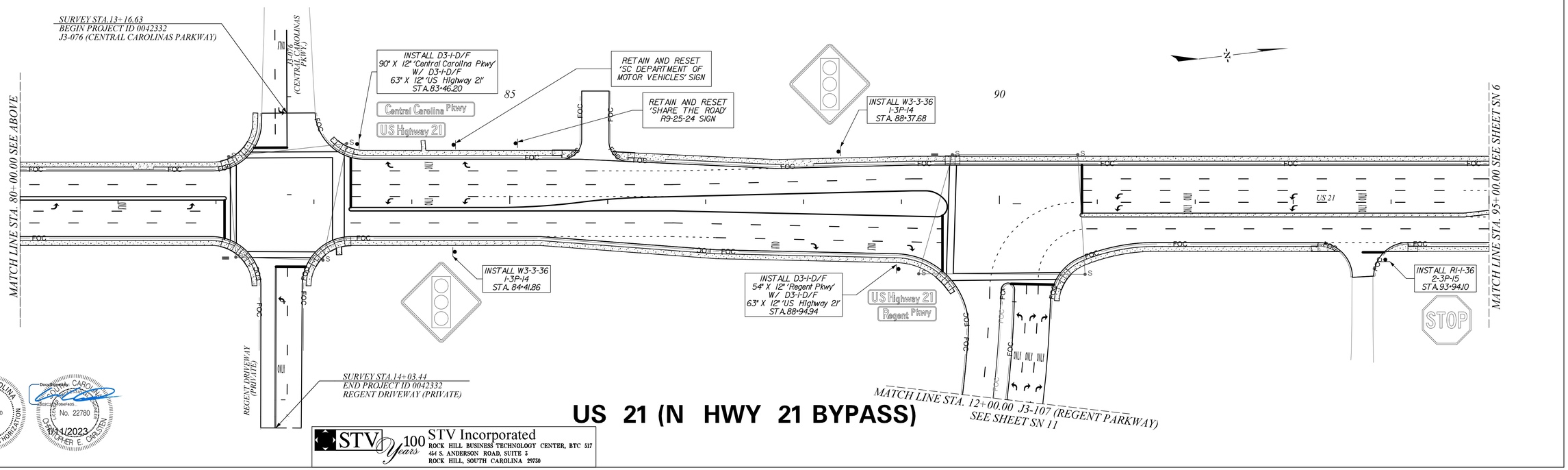

US 21 (N HWY 21 BYPASS)

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Document Verification Code: 6646F10F-04F2-4BF9-8148-1A3839BBBA67 CHRISTOPHER E. CARLSON No. 22780 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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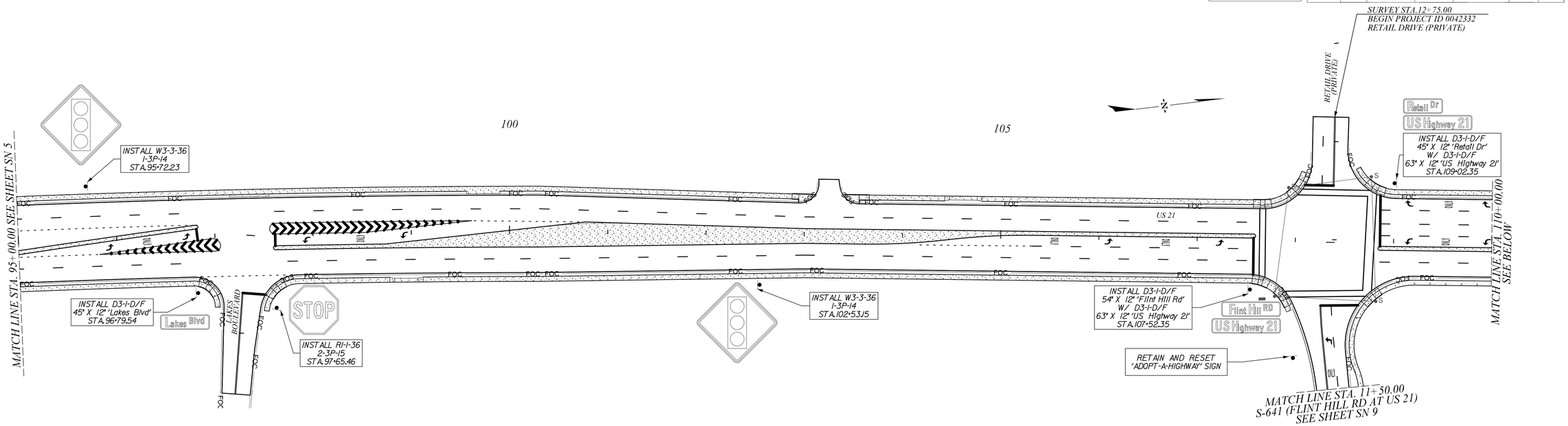
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	SN 6



US 21 (N HWY 21 BYPASS)

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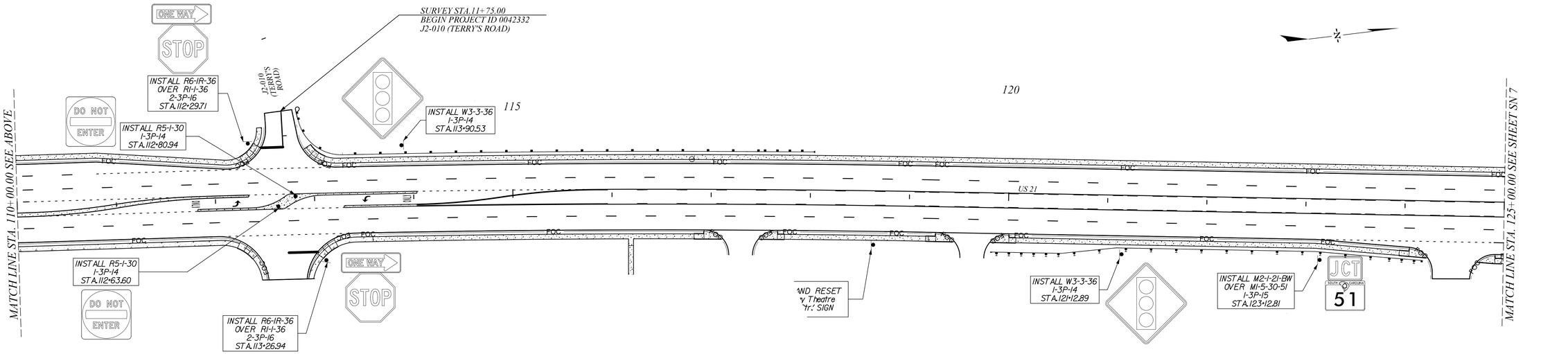

US 21 (N HWY 21 BYPASS)

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SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEDT
1/11/2023

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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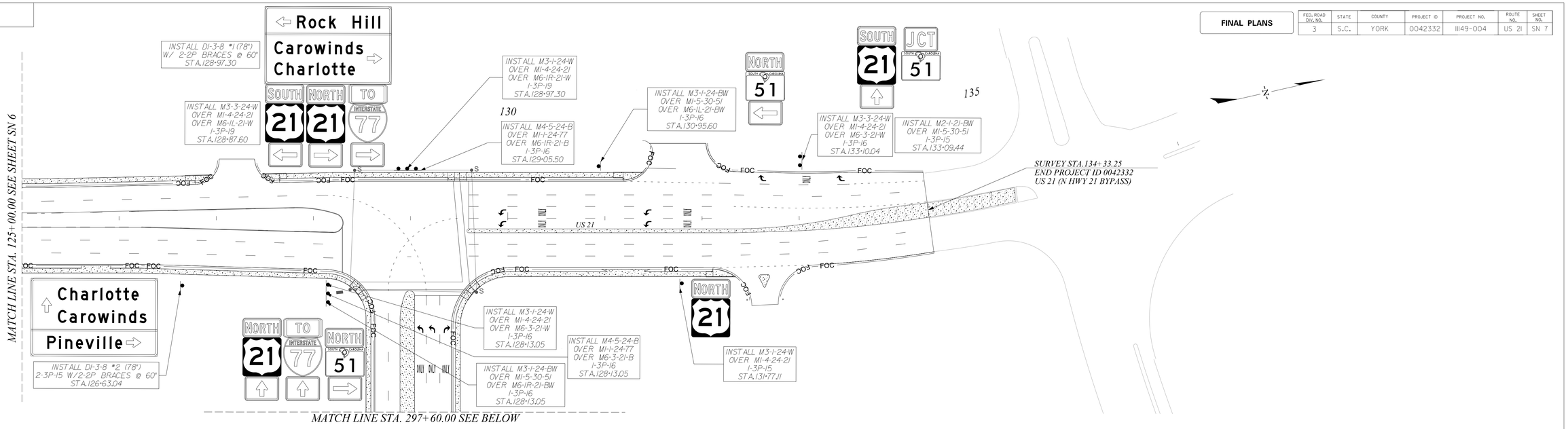
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	US 21	SN 7



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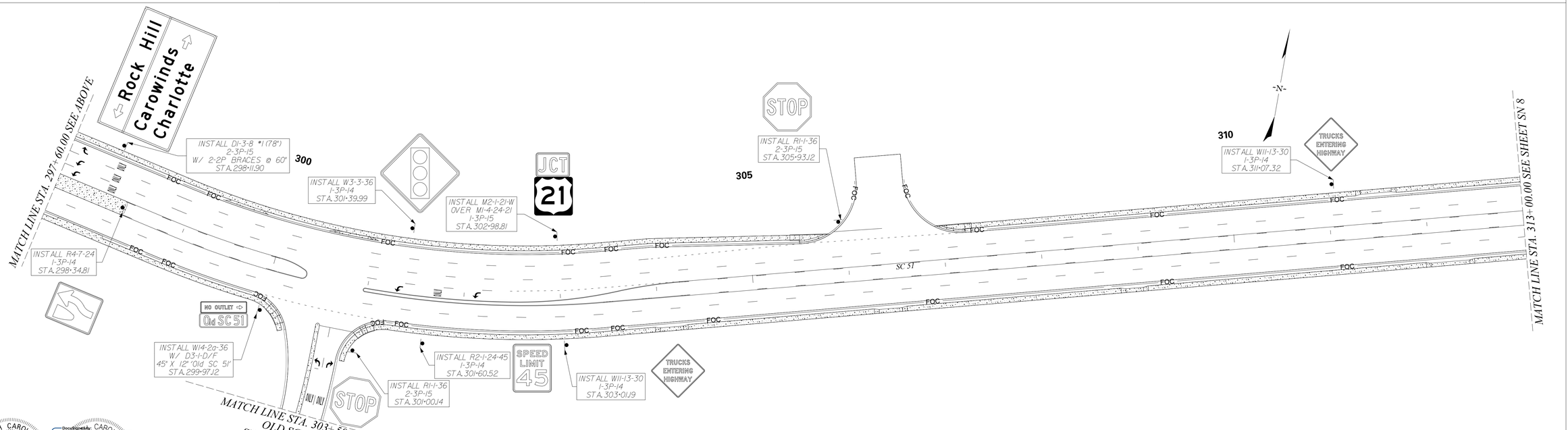
scale feet



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — 1/11/2023 — CHRISTOPHER E. CARLSTEDT

DocuSigned by: CHRISTOPHER CARLSTEDT 5020C2B5706F405...

STV 100 Years

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023
PROLINE.DGN

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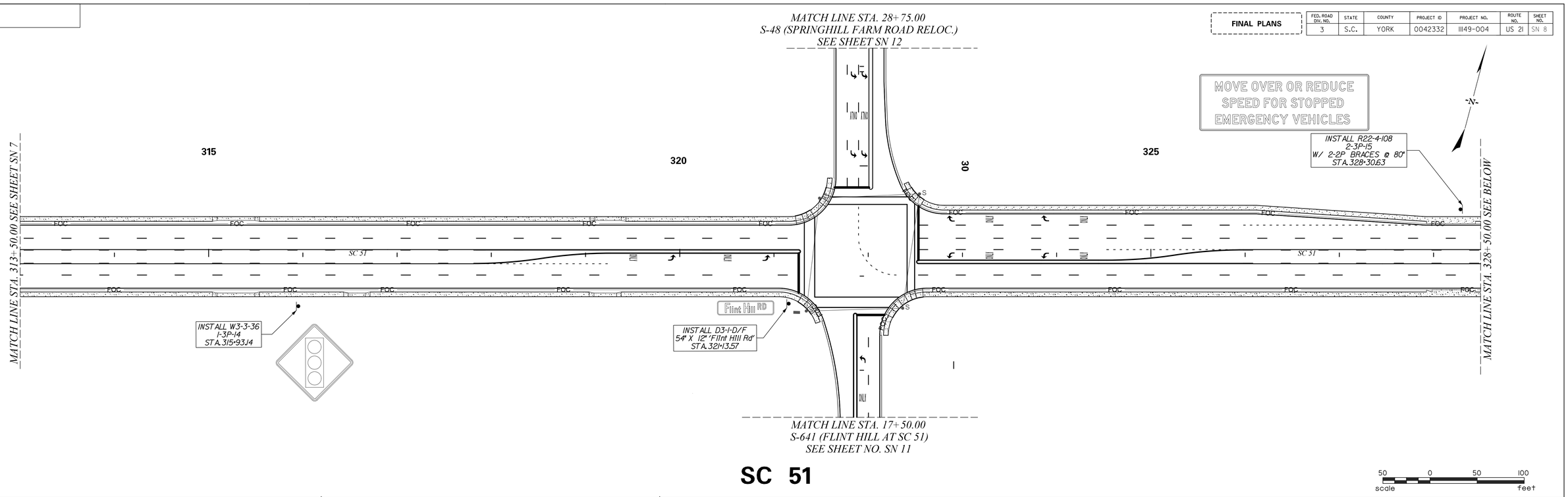
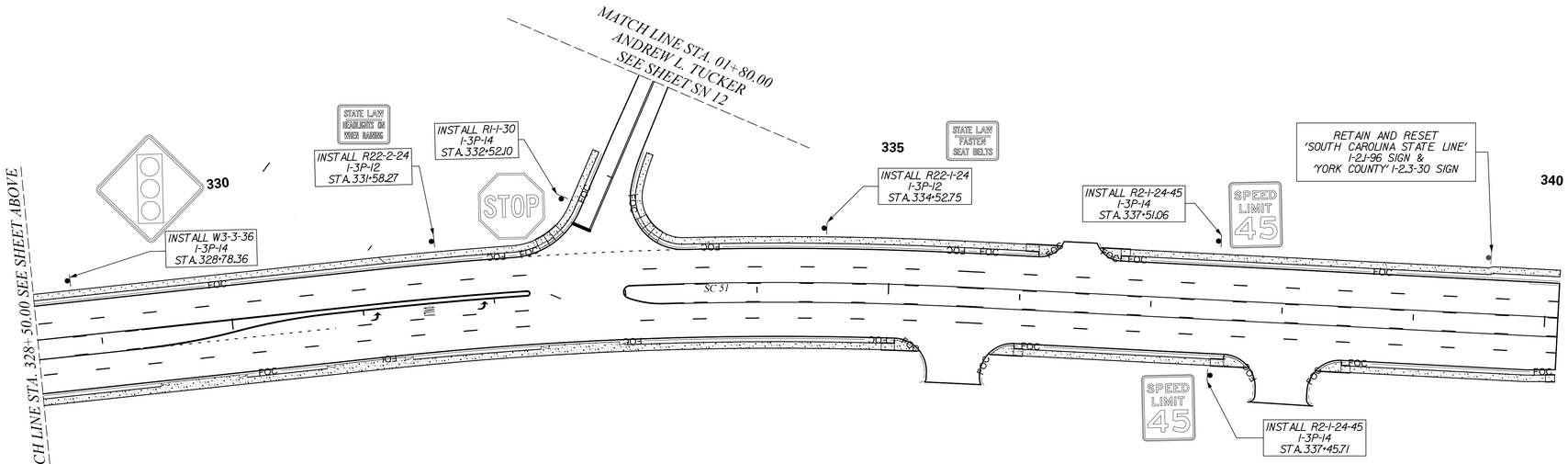
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	SN 8



SC 51

scale 50 0 50 100 feet



SC 51

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

Document Ready CAROLINA CERTIFICATE OF AUTHORIZATION No. 22780 CHRISTOPHER E. CARLSTEN

1/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023

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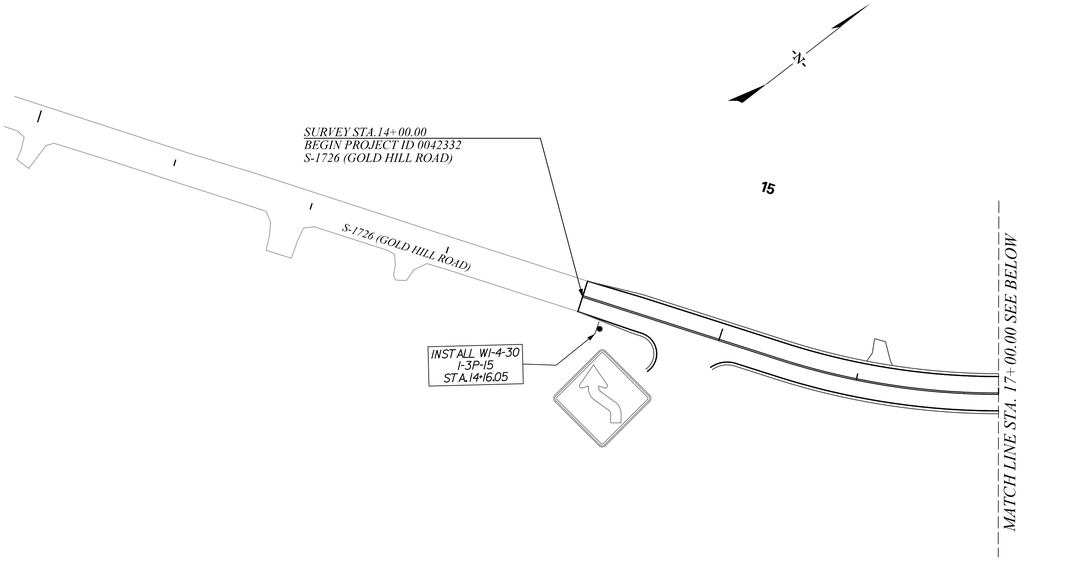
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	SN 9



S–1726 (GOLD HILL RD.)

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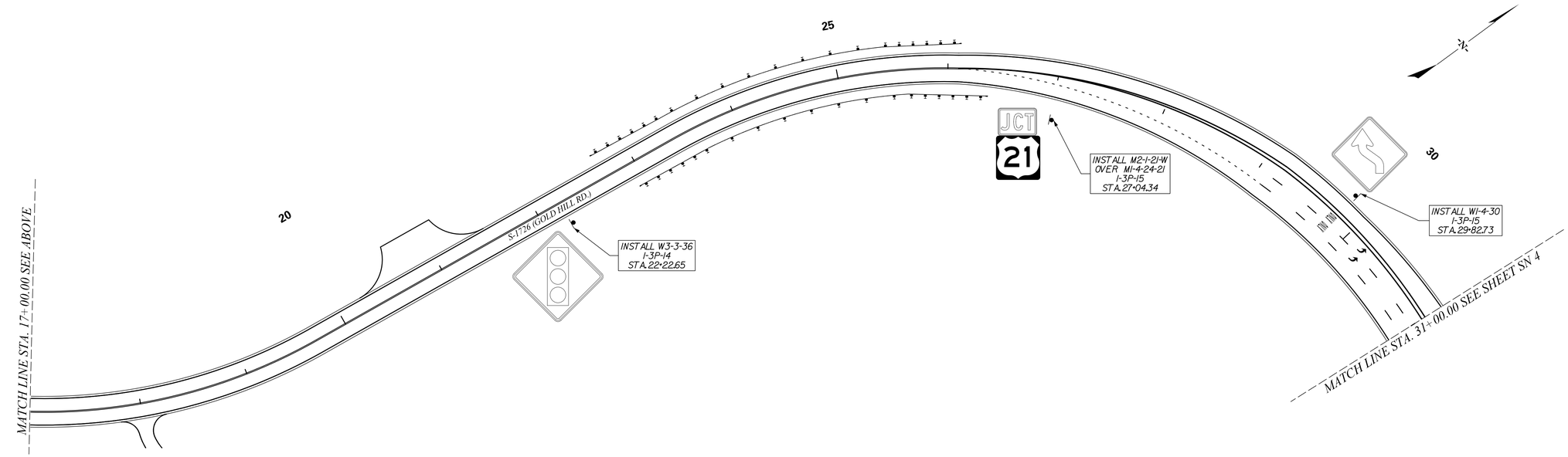
scale feet



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03338

Docusigned by: CHRISTOPHER E. CARLSTED No. 22780 1/11/2023

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

S–1726 (GOLD HILL RD.)

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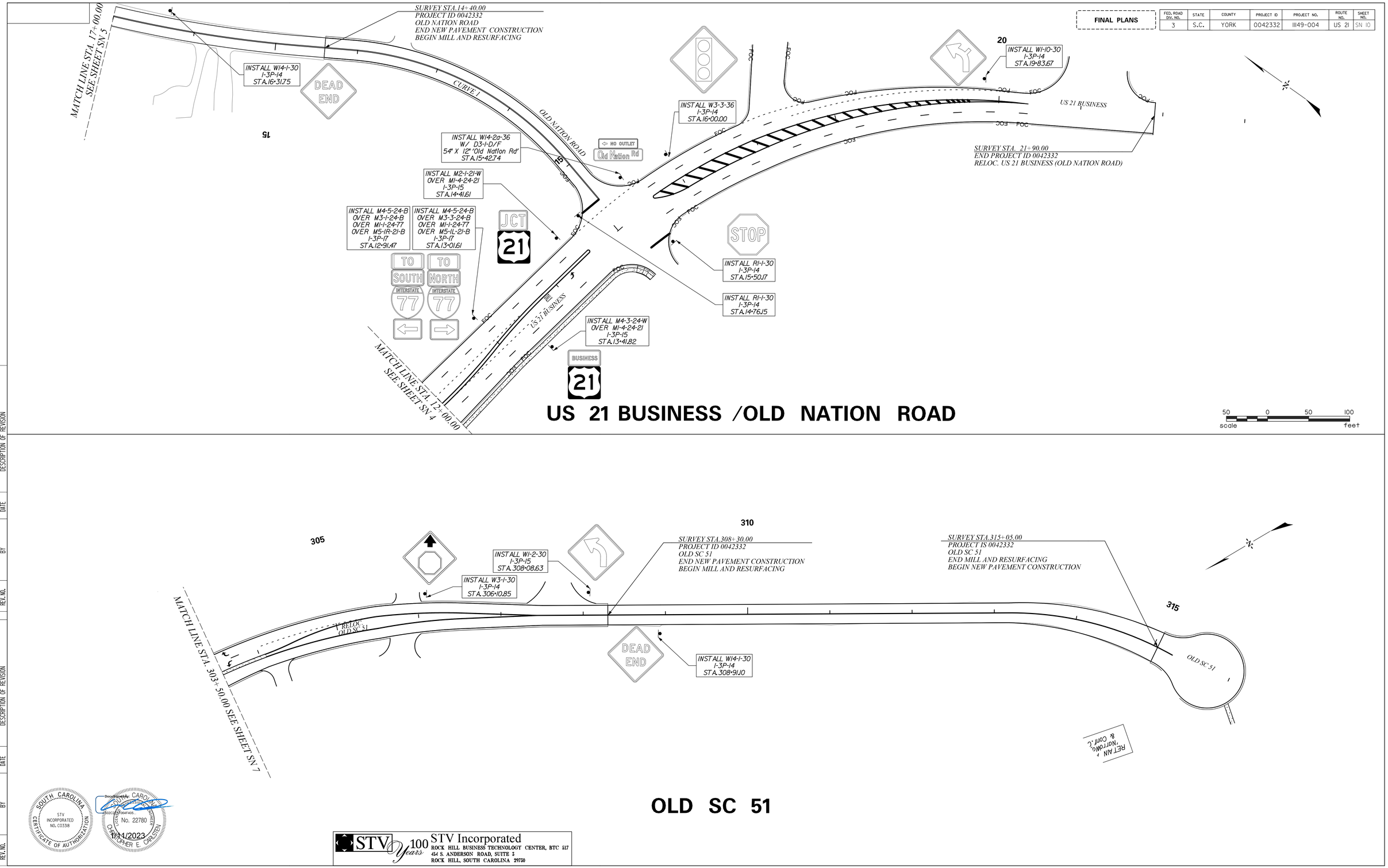
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	SN 10



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SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Docu Signed by: SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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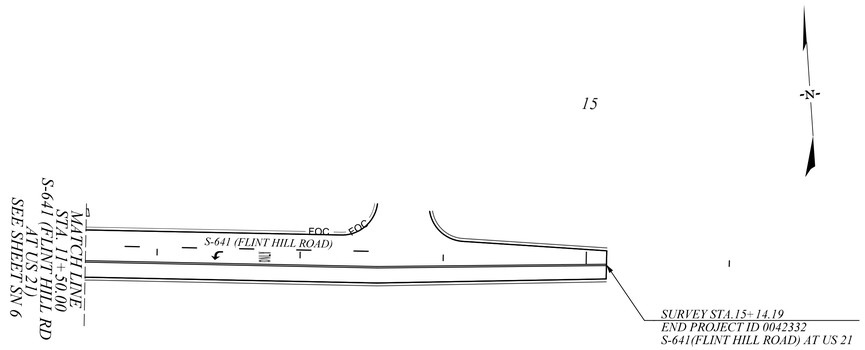

S–641 (FLINT HILL RD. AT US 21)

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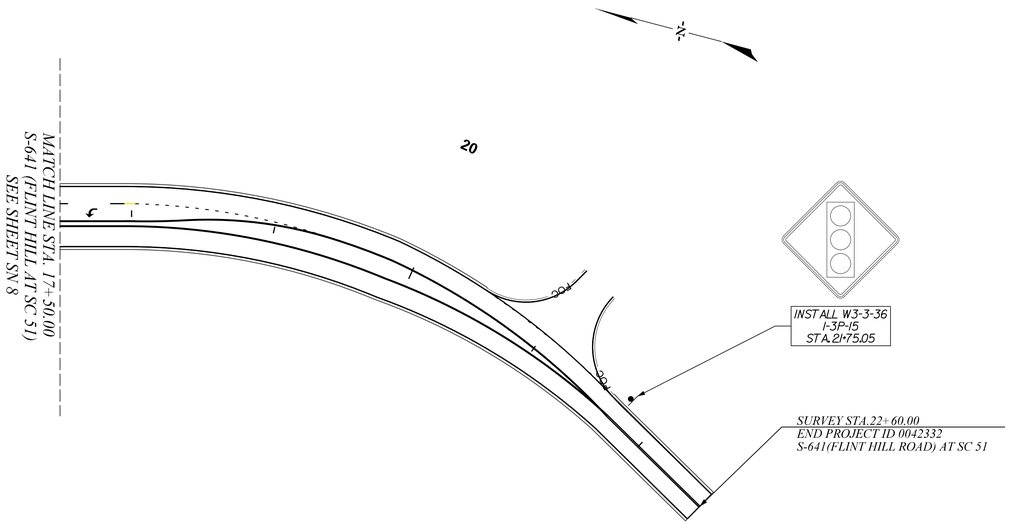
scale feet



S–641 (FLINT HILL RD. AT SC 51)

REV.NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTED 1/11/2023

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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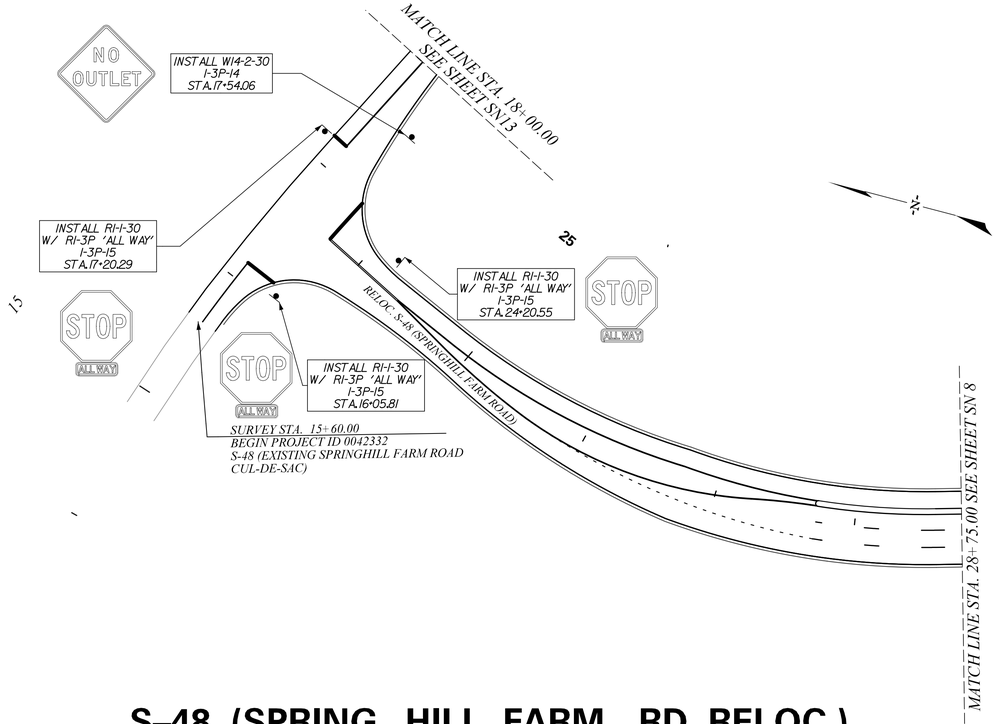

S–48 (SPRING HILL FARM RD. RELOC.)

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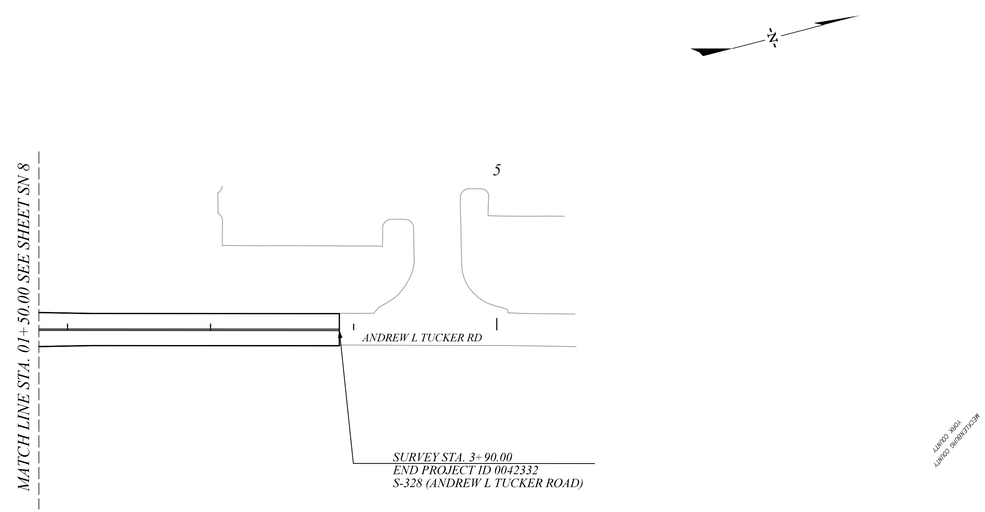
scale feet



S–328 (ANDREW L. TUCKER RD.)

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 11/11/2023 CHRISTOPHER E. CARLSTEN

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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1/10/2023

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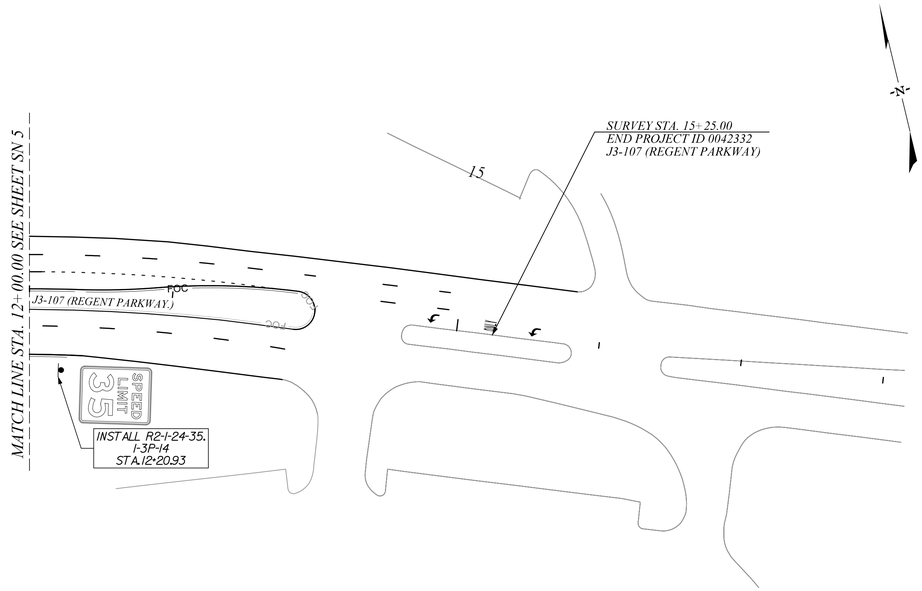
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	SN 13



J3–107 (REGENT PKWY.)

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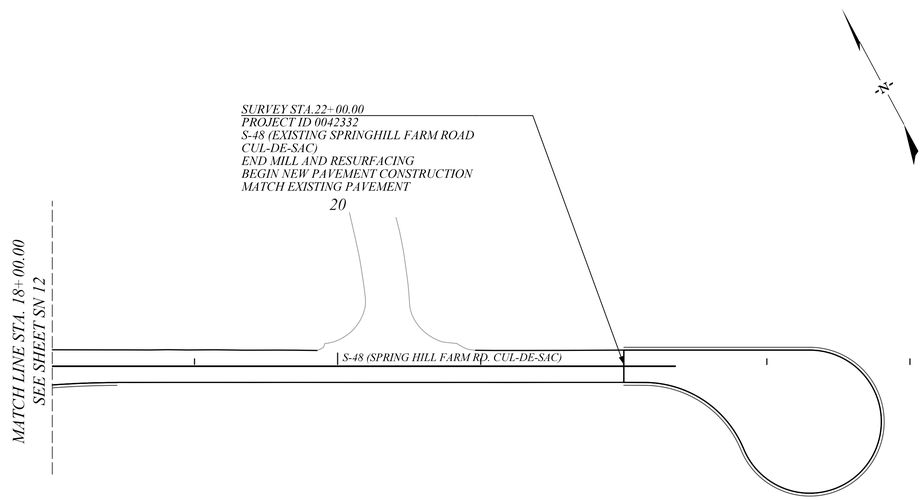
scale feet



S–48 (SPRING HILL FARM RD. CUL–DE–SAC)

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/11/2023

STV 100 Years STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

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1/10/2023

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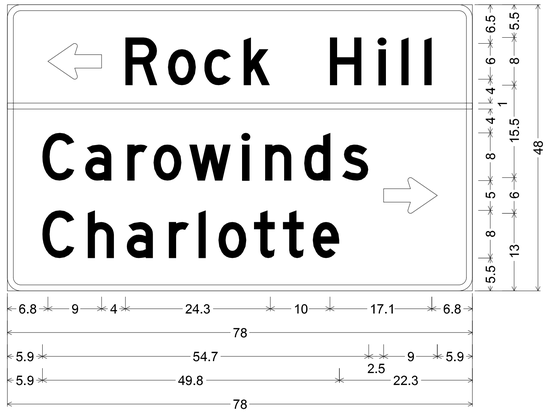
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	SN 14

D1–3–8 #1



2.3" Radius, 1.0" Border, White on, Green;
Standard Arrow Custom 9.0" X 6.0" 180"; "Rock Hill", D;
"Carowinds", D; "Charlotte", D;
Standard Arrow Custom 9.0" X 6.0" 0';
Table of distances between letter and object lefts

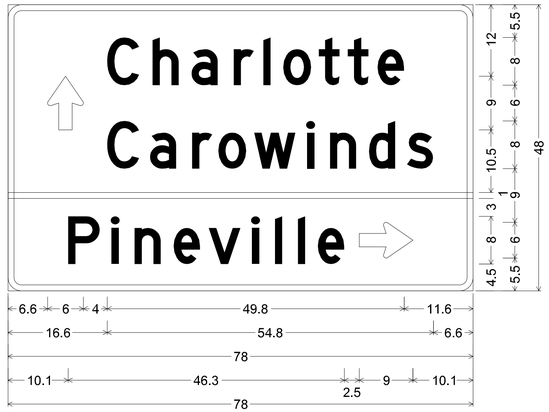
	⇦	R	o	c	k	H	i	l	l		
6.8	13.0	7.1	6.1	6.6	14.5	8.1	3.9	3.9	1.2	6.8	

-0.0	78.0	0.0

	C	a	r	o	w	i	n	d	s	⇨	
5.9	7.2	7.0	4.4	6.0	8.9	3.9	6.5	6.4	6.9	9.0	5.9

	C	h	a	r	l	o	t	t	e	
5.9	7.6	6.5	7.1	5.0	3.3	6.0	4.8	5.0	4.5	22.3

D1–3–8 #2



2.3" Radius, 1.0" Border, White on, Green;
Standard Arrow Custom 9.0" X 6.0" 90"; "Charlotte", D;
"Carowinds", D; "Pineville", D; Standard Arrow Custom 9.0" X 6.0" 0';
Table of distances between letter and object lefts

	⇧	C	h	a	r	l	o	t	t	e	
6.6	10.0	7.6	6.6	7.0	5.0	3.4	5.9	4.9	5.0	4.4	11.6

	C	a	r	o	w	i	n	d	s	
16.6	7.2	7.1	4.4	6.0	8.8	3.9	6.5	6.4	4.5	6.6

-0.0	78.0	0.0

	P	i	n	e	v	i	l	l	e	⇨	
10.1	7.3	3.8	6.6	5.9	7.2	3.9	3.8	3.4	6.9	9.0	10.1



REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

STV 100 Years
STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

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1/30/2023
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SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

10 ORACLE, (2)-CHANNEL VEHICLE DETECTOR UNITS

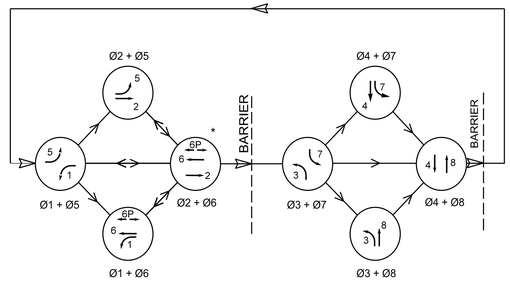
PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	1,2F	2	3,4F	4	5,6F	6	7,8F	8	6P	
LENS	◄R ◄Y ◄FY ◄G	R Y G	◄R ◄Y ◄FY ◄G	R Y G	◄R ◄Y ◄FY ◄G	R Y G	◄R ◄Y ◄FY ◄G	R Y G	🚶 ✋	
PHASE	1,OLA	2	3,OLB	4	5,OLC	6	7,OLD	8	6	
SIZE	12"	12"	12"	12"	12"	12"	12"	12"	16"	
QUANTITY	1	2	1	2	1	2	1	2	2	

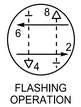
OLA=Ø1+Ø2 (FYA) OLC=Ø5+Ø6 (FYA)
OLB=Ø3+Ø4 (FYA) OLD=Ø7+Ø8 (FYA)
METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*____ COORDINATED

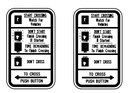


NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING ← R10–12A–30

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL 9" X 15"

R10-3eR 9" X 15"

LOOP DETECTOR INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	LOOP DESIGN SIZE X	LOOP DESIGN NO.OF TURNS	LOOP DESIGN DIST. FROM ℄
1A			1		X		X			EXIST LOOP	6' X 30'	2-4-2	0'
2A			2	X			X			EXIST LOOP	6' X 26'	5	255'
2B			2	X			X			EXIST LOOP	6' X 6'	5	385'
3A			3		X		X			EXIST LOOP	6' X 30'	2-4-2	50'
4A			4		X		X			QUADRUPOLE	6' X 30'	2-4-2	-5'
4B			4		X		X			QUADRUPOLE	6' X 30'	2-4-2	-5'
4C			4		X		X			QUADRUPOLE	6' X 30'	2-4-2	-5'
4D			4		X		X			QUADRUPOLE	6' X 6'	5	255'
5A			5		X		X			EXIST LOOP	6' X 30'	2-4-2	50'
6A			6	X			X			EXIST LOOP	6' X 26'	5	255'
6B			6	X			X			EXIST LOOP	6' X 6'	5	385'
7A			7		X		X			QUADRUPOLE	6' X 30'	2-4-2	50'
8A			8		X		X			EXIST LOOP	6' X 30'	2-4-2	0'
8B			8		X		X			EXIST LOOP	6' X 30'	2-4-2	0'
8C			8		X		X			EXIST LOOP	6' X 30'	2-4-2	0'
8D			8		X		X			EXIST LOOP	6' X 6'	5	255'

SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK						7		
DON'T WALK						20		
MIN INITIAL	8	20	8	8	8	20	8	8
MAX INITIAL								
ADD/VEH								
VEH EXT		3.0		3.0		3.0		3.0
TIM BFR REDUC								
TIME TO REDUC								
MIN GAP		3.0				3.0		
MAX LIMIT	20	45	20	40	20	45	20	40
MAXIMUM 2								
YELLOW	3.0	4.8	3.0	5.0	3.0	4.8	3.0	5.0
RED CLEAR	4.1	4.1	3.3	4.1	4.0	4.1	4.1	4.1

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS1

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #	Ø1 + Ø5	Ø1 + Ø6	Ø2 + Ø5	Ø2 + Ø6	Ø3 + Ø7	Ø3 + Ø8	Ø4 + Ø7	Ø4 + Ø8	FLASH
1,2F	◄G	◄G	◄FY	◄FY	◄R	◄R	◄R	◄R	◄Y
2	R	R	G	G	R	R	R	R	Y
3,4F	◄R	◄R	◄R	◄R	◄G	◄G	◄FY	◄FY	◄R
4	R	R	R	R	R	R	G	G	R
5,6F	◄G	◄FY	◄G	◄FY	◄R	◄R	◄R	◄R	◄Y
6	R	G	R	G	R	R	R	R	Y
7,8F	◄R	◄R	◄R	◄R	◄G	◄FY	◄G	◄FY	◄R
8	R	R	R	R	R	G	R	G	R
6P	DW	W	DW	W	DW	DW	DW	DW	DW

ROUTE NUMBER	US 21		SC 460	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	55	55	45	45
GRADE (%)	+1	+2	+5	-4

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Thomas W. Feemster
10/1/2022

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21 BP @ SC 460 (SPRINGFIELD PKWY)

CITY | COUNTY: YORK

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

APPROVED BY
DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4711

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SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

15 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △ P PROP. △ P W/ACT. & SIGN

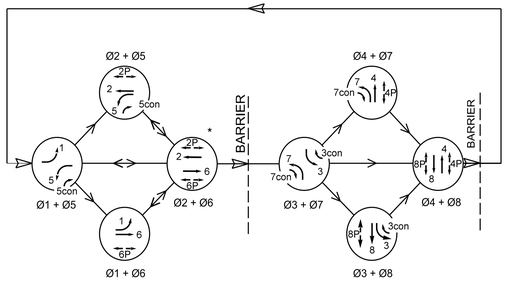
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	1	2	2,3con	3	4	4,5con	5	6	6,7con	7	8	2P	4P	6P	8P
LENS	◄R◄R ◄Y ◄G	R Y G	R Y Y► G G►	◄R ◄Y ◄G	R Y G	R Y Y► G G►	◄R ◄Y ◄G	R Y G	R Y Y► G G►	◄R◄R ◄Y ◄G	R Y G				
PHASE	1	2	2 | 3	3	4	4 | 5	5	6	6 | 7	7	8	2P	4P	6P	8P
SIZE	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	16"	16"	16"	16"
QUANTITY	1	1	1	2	1	1	2	1	1	1	2	2	2	2	2

OLA= OLC=
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
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5. SET PHASES 2 AND 6 TO MINIMUM RECALL
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8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS2

TABLE OF OPERATION

SIGNAL HEAD #	PHASE IN OPERATION Ø1 + Ø5	Ø1 + Ø6	Ø2 + Ø5	Ø2 + Ø6	Ø3 + Ø7	Ø3 + Ø8	Ø4 + Ø7	Ø4 + Ø8	FLASH
1	◄G	◄G	◄R◄R	◄R◄R	◄R◄R	◄R◄R	◄R◄R	◄R◄R	◄R◄R
2	R	R	G	G	R	R	R	R	Y
2,3con	R	R	G	G	R G►	R G►	R	R	Y
3	◄R	◄R	◄R	◄R	◄G	◄G	◄R	◄R	◄R
4	R	R	R	R	R	R	G	G	R
4,5con	R G►	R G►	R	R	R	R	G	G	R
5	◄G	◄R	◄G	◄R	◄R	◄R	◄R	◄R	◄R
6	R	G	R	G	R	R	R	R	Y
6,7con	R	G	R	G	R G►	R G►	R	R	Y
7	◄R◄R	◄R◄R	◄R◄R	◄R◄R	◄G	◄R◄R	◄G	◄R◄R	◄R◄R
8	R	R	R	R	R	G	R	G	R
2P	DW	DW	W	W	DW	DW	DW	DW	DRK
4P	DW	DW	DW	DW	DW	DW	W	W	DRK
6P	DW	W	DW	W	DW	DW	DW	DW	DRK
8P	DW	DW	DW	DW	DW	W	DW	W	DRK

SIGNS

Ⓐ U-TURN YIELD TO RIGHT TURN R10–16–30

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL 9" X 15"

R10-3eR 9" X 15"

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	AMP NO.	CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
1A			1		X		X			RADAR-STOP BAR	6' X 6'		0'
1B			1		X		X			RADAR-STOP BAR	6' X 30'		12'
2A,2B,2C			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2D			2	X			X			RADAR-SET BACK	6' X 18'		330'
3A,3B			3		X		X			RADAR-STOP BAR	6' X 6'		0'
3C,3D			3		X		X			RADAR-STOP BAR	6' X 30'		12'
4A,4B			4		X		X			RADAR-STOP BAR	6' X 6'		0'
4C,4D			4		X		X			RADAR-STOP BAR	6' X 30'		12'
5A,5B			5		X		X			RADAR-STOP BAR	6' X 6'		0'
5C,5D			5		X		X			RADAR-STOP BAR	6' X 30'		12'
6A,6B,6C			6		X		X			RADAR-STOP BAR	6' X 6'		0'
6D			6	X			X			RADAR-SET BACK	6' X 18'		330'
7A			7		X		X			RADAR-STOP BAR	6' X 6'		0'
7B			7		X		X			RADAR-STOP BAR	6' X 30'		12'
8A			8		X		X			RADAR-STOP BAR	6' X 6'		0'
8B			8		X		X			RADAR-STOP BAR	6' X 30'		12'

SIGNAL TIMINGS

INTERVAL	PHASE 1	2	3	4	5	6	7	8
WALK		7		7		7		7
DON'T WALK		29		39		33		38
MIN INITIAL	8	15	8	8	8	15	8	8
MAX INITIAL		37				37		
ADD/VEH		1.5				1.5		
VEH EXT	3.0	6.0	3.0	3.0	3.0	6.0	3.0	3.0
TIM BFR REDUC		15				15		
TIME TO REDUC		30				30		
MIN GAP		2.5				2.5		
MAX LIMIT	20	60	20	45	20	60	20	45
MAXIMUM 2								
YELLOW	3.0	4.2	3.0	3.6	3.0	4.2	3.0	3.6
RED CLEAR	3.9	2.0	3.9	3.3	4.4	2.0	4.0	3.3

ROUTE NUMBER	US 21 BP		S-1726	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	35	35
GRADE (%)	+2.8	+1.3	0	+2

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Digitally signed by Thomas W Feemster
Date: 2023.10.11 10:41:44 -04'00'

10/11/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED TWF
DRAWN TWF
CHECKED
REVIEWED
RECOMMENDED

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA, S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21/US 21 BYPASS @ S-1726 (GOLD HILL RD) / US 21 BUSINESS

CITY | COUNTY: YORK

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER | DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4767

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SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

10 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

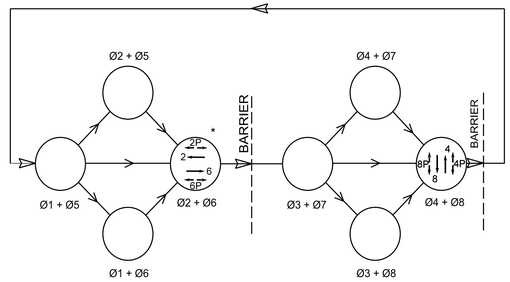
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2		4	6F	6		8	2P	4P	6P	8P
LENS	◄R	R		R	◄R	R		R				
	◄Y	Y		Y	◄Y	Y		Y				
	◄FY	G		G	◄FY	G		G				
PHASE	OLA	2		4	OLC	6		8	2P	4P	6P	8P
SIZE	12"	12"		12"	12"	12"		12"	16"	16"	16"	16"
QUANTITY	1	2		2	1	2		2	2	2	2	2

OLA=Ø2 (FYA) OLC=Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
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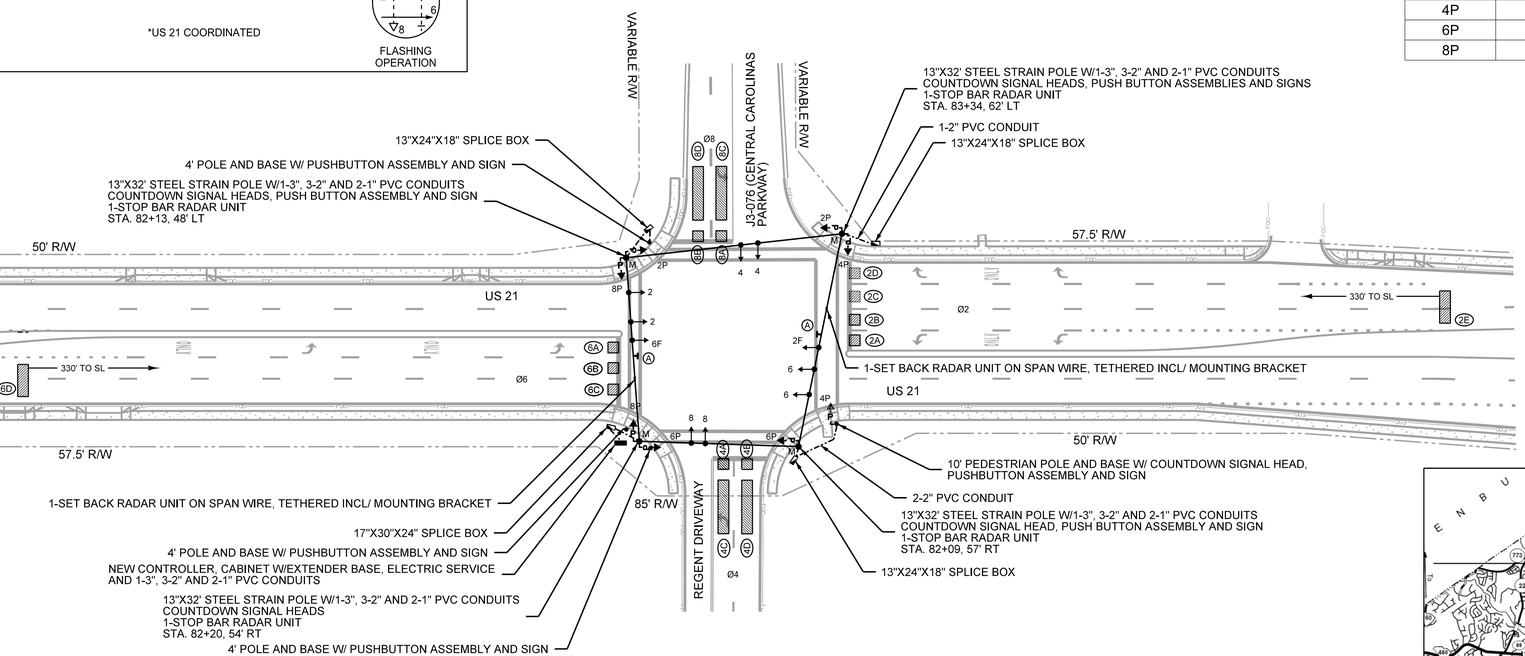
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS3

N

TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #				Ø2 + Ø6			Ø4 + Ø8	FLASH	
2F				~~FY~~			~~R~~	~~Y~~	
2				G			R	Y	
4				R			G	R	
6F				~~FY~~			~~R~~	~~Y~~	
6				G			R	Y	
8				R			G	R	
2P				W			DW	DRK	
4P				DW			W	DRK	
6P				W			DW	DRK	
8P				DW			W	DRK	



SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING ← R10–12A–30

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



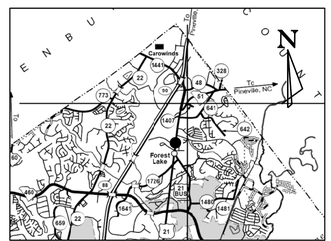
R10-3eL 9" X 15" R10-3eR 9" X 15"

RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
2A,2B			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2C,2D			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2E			2	X			X			RADAR-SET BACK	6' X 18'		330'
4A,4B			4		X		X			RADAR-STOP BAR	6' X 6'		0'
4C,4D			4		X		X			RADAR-STOP BAR	6' X 30'		12'
6A,6B,6C			6				X			RADAR-STOP BAR	6' X 6'		0'
6D			6	X			X			RADAR-SET BACK	6' X 18'		330'
8A,8B			8		X		X			RADAR-STOP BAR	6' X 6'		0'
8C,8D			8		X		X			RADAR-STOP BAR	6' X 30'		12'

SIGNAL TIMINGS

INTERVAL	PHASE 2	4	6	8
WALK	7	7	7	7
DON'T WALK	29	26	19	23
MIN INITIAL	15	8	15	8
MAX INITIAL	37		37	
ADD/VEH	1.5		1.5	
VEH EXT	6.0	3.0	6.0	3.0
TIM BFR REDUC	15		15	
TIME TO REDUC	30		30	
MIN GAP	2.5		2.5	
MAX LIMIT	60	40	60	40
MAXIMUM 2				
YELLOW	4.6	3.5	4.6	3.5
RED CLEAR	1.8	2.6	1.8	2.6


N
Carowinds
Forest Lake
To Fayetteville, NC
To Charlotte, NC
Pineville
Ballantyne
Rea Rd
Regent Pkwy
Arrowood Rd
Johnston Rd
Park Rd
Fairview Rd
Sharon Rd
Sharon Amity Rd
Providence Rd
Monroe Rd
Idlewild Rd
Matthews
Mint Hill
Indian Trail
Waxhaw
Marvin
Weddington
Wesley Chapel
Stallings
Monroe
Union County
Mecklenburg County
York County
Lancaster County
Chesterfield County
Marlboro County
Anson County
Richmond County
Scotland County
Robeson County
Cumberland County
Fayetteville
Lumberton
Laurinburg
Rockingham
Hamlet
Cheraw
Bennettsville
Dillon
Florence
Darlington
Hartsville
Camden
Lancaster
Chester
Rock Hill
Fort Mill
Gastonia
Kings Mountain
Shelby
Lincolnton
Cherryville
Belmont
Mount Holly
Huntersville
Concord
Kannapolis
Salisbury
Statesville
Mooresville
Davidson
Cornelius
Albemarle
Troutman
Harrisburg
Midland
Locust
Stanfield
Oakboro
Norwood
Wadesboro
Peachland
Ansonville
Polkton
Wingate
Marshville
Waxhaw
Indian Trail
Monroe
Wesley Chapel
Stallings
Mint Hill
Matthews
Pineville
Ballantyne
Carowinds
Forest Lake
Rea Rd
Regent Pkwy
Arrowood Rd
Johnston Rd
Park Rd
Fairview Rd
Sharon Rd
Sharon Amity Rd
Providence Rd
Monroe Rd
Idlewild Rd
Weddington
Marvin
Union County
Mecklenburg County
York County
Lancaster County
Chesterfield County
Marlboro County
Anson County
Richmond County
Scotland County
Robeson County
Cumberland County
Fayetteville
Lumberton
Laurinburg
Rockingham
Hamlet
Cheraw
Bennettsville
Dillon
Florence
Darlington
Hartsville
Camden
Lancaster
Chester
Rock Hill
Fort Mill
Gastonia
Kings Mountain
Shelby
Lincolnton
Cherryville
Belmont
Mount Holly
Huntersville
Concord
Kannapolis
Salisbury
Statesville
Mooresville
Davidson
Cornelius
Albemarle
Troutman
Harrisburg
Midland
Locust
Stanfield
Oakboro
Norwood
Wadesboro
Peachland
Ansonville
Polkton
Wingate
Marshville
49
521
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SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

10 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △P PROP. ▲P W/ACT. & SIGN

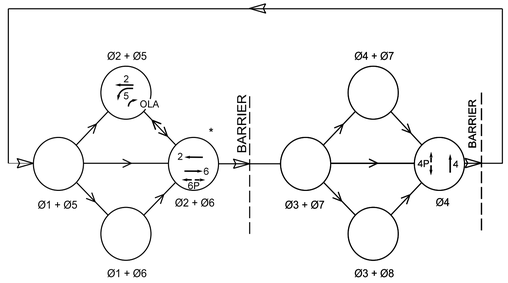
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER		2	4A	4B	5	6		4P	6P
LENS		R	◂R ◂R	R▸	◂R	R			
		Y	◂Y	Y▸	◂Y	Y			
		G	◂FY	G▸	◂G	G			
PHASE		2	4	OLA	5	6		4P	6P
SIZE		12"	12"	12"	12"	12"		16"	16"
QUANTITY		2	1	2	2	2		2	2

OLA=Ø4+Ø5 OLC=
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS4

TABLE OF OPERATION	PHASE IN OPERATION							
SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6		Ø4		FLASH
2			G	G		R		Y
4A			◂R ◂R	◂R ◂R		◂FY		◂R ◂R
4B			G▸	R▸		G▸		R▸
5			◂G	◂R		◂R		◂R
6			R	G		R		Y
6,4con			R	G		R G▸		Y
6P			DW	W		DW		DRK
4P			DW	DW		W		DRK

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL
9" X 15"



R10-3eR
9" X 15"

SIGNS

Ⓐ 

R3–5L

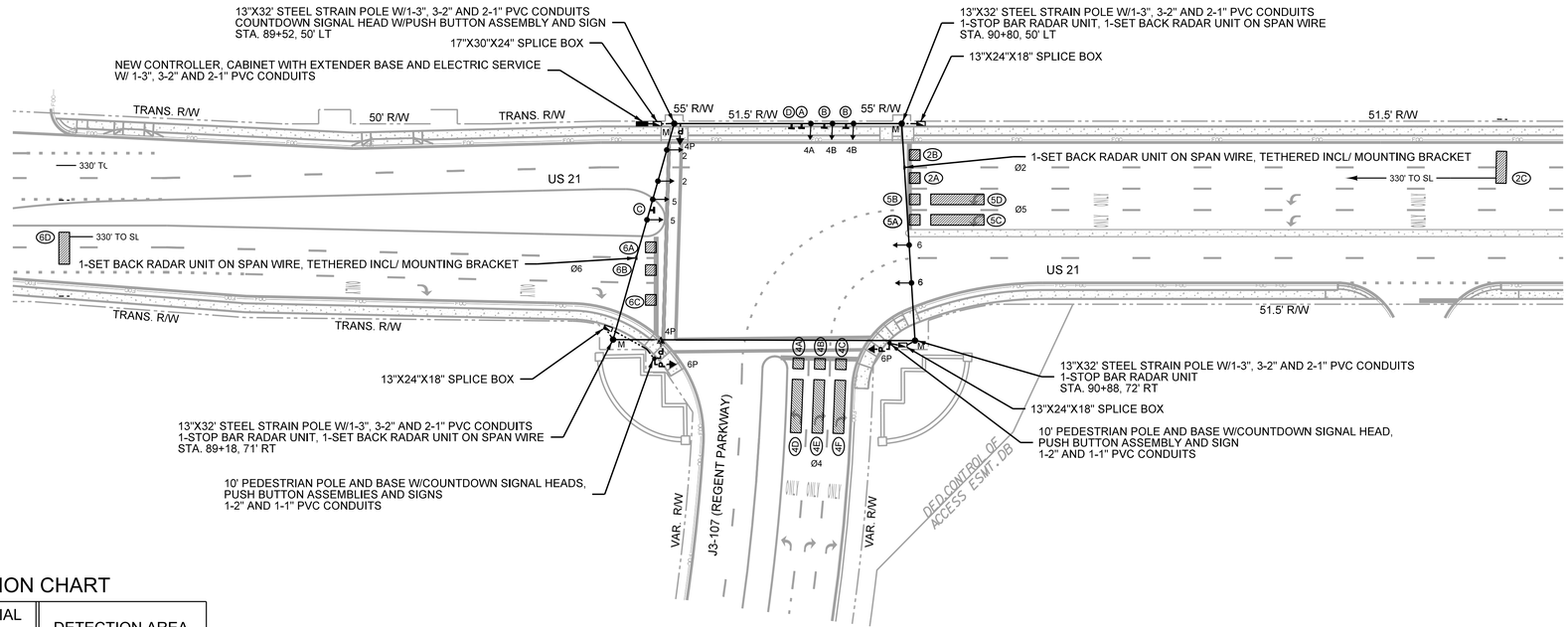
Ⓑ 

R3–5R

Ⓒ 
R3–4–24

Ⓓ 

R10–15L–30

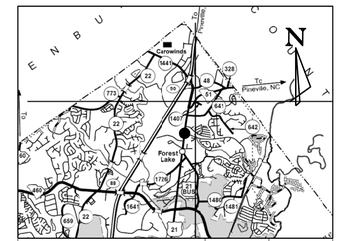


RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
2A,2B			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2C			2	X			X			RADAR-SET BACK	6' X 18'		330'
4A,4B,4C			4		X		X			RADAR-STOP BAR	6' X 6'		0'
4D,4E,4F			4		X		X			RADAR-STOP BAR	6' X 30'		12'
5A,5B			5		X		X			RADAR-STOP BAR	6' X 6'		0'
5C,5D			5		X		X			RADAR-STOP BAR	6' X 30'		12'
6A,6B,6C			6		X		X			RADAR-STOP BAR	6' X 6'		0'
6D			6	X			X			RADAR-SET BACK	6' X 18'		330'

SIGNAL TIMINGS

INTERVAL	PHASE 2		4	5	6		8
WALK					7		7
DON'T WALK					33		32
MIN INITIAL	15		8	8	15		
MAX INITIAL	37				37		
ADD/VEH	1.5				1.5		
VEH EXT	6.0		3.0	3.0	6.0		
TIM BFR REDUC	15				15		
TIME TO REDUC	30				30		
MIN GAP	2.5				2.5		
MAX LIMIT	60		30	20	60		
MAXIMUM 2							
YELLOW	4.6		3.4	3.0	4.6		
RED CLEAR	2.1		3.9	3.9	2.1		



ROUTE NUMBER	US 21		REGENT	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	-	35
GRADE (%)	-1.2	-2.2	-	+3.0

* ESTIMATED

FILE # :

SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Digitally signed by Thomas W Feemster
No. 17971
10/4/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED TWF
DRAWN TWF
CHECKED
REVIEWED
RECOMMENDED

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21 @ REGENT PARKWAY

CITY | COUNTY: YORK

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER | DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4669

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

11 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △ P PROP. ▲ P W/ACT. & SIGN

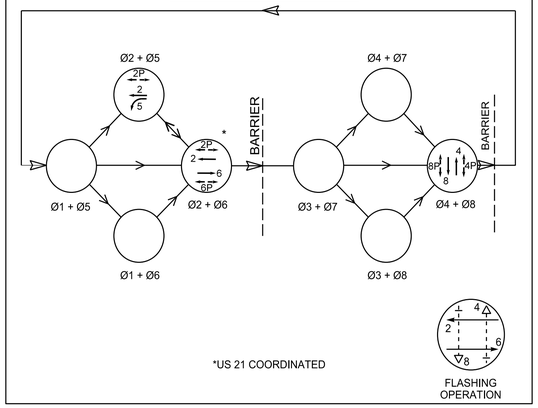
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2		4	5,6F	6		8	2P	4P	6P	8P
LENS	◄R ◄Y ◄FY	R Y G		R Y G	◄R ◄Y ◄FY ◄G	R Y G		R Y G				
PHASE	OLA	2		4	5,OLC	6		8	2P	4P	6P	8P
SIZE	12"	12"		12"	12"	12"		12"	16"	16"	16"	16"
QUANTITY	1	2		2	1	2		2	2	2	2	2

OLA=Ø2 (FYA) OLC=Ø5+Ø6 (FYA)
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



*US 21 COORDINATED

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS5

N

SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6			Ø4 + Ø8	FLASH
	PHASE IN OPERATION							
2F			~~FY~~	~~FY~~			~~R~~	~~Y~~
2			G	G			R	Y
4			R	R			G	R
5,6F			~~G~~	~~FY~~			~~R~~	~~Y~~
6			R	G			R	Y
8			R	R			G	R
2P			W	W			DW	DRK
4P			DW	DW			W	DRK
6P			DW	W			DW	DRK
8P			DW	DW			W	DRK

SIGNS

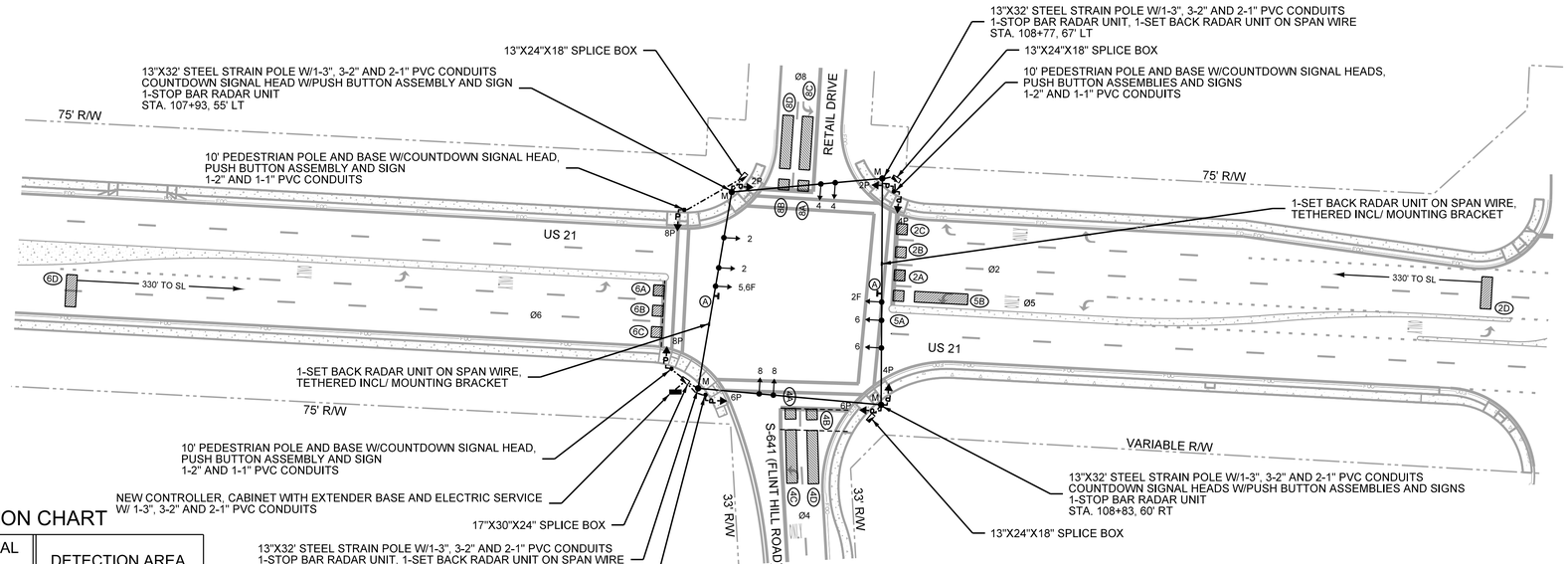
Ⓐ LEFT TURN YIELD ON FLASHING R10–12A–30

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL 9" X 15"

R10-3eR 9" X 15"

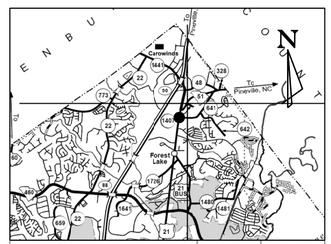


RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK	NON-LOCK	PULSE	PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
2A,2B,2C			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2D			2	X			X			RADAR-SET BACK	6' X 18'		330'
4A,4B			4		X		X			RADAR-STOP BAR	6' X 6'		0'
4C,4D			4		X		X			RADAR-STOP BAR	6' X 30'		12'
5A			5		X		X			RADAR-STOP BAR	6' X 6'		0'
5B			5		X		X			RADAR-STOP BAR	6' X 30'		12'
6A,6B,6C			6		X		X			RADAR-STOP BAR	6' X 6'		0'
6D			6	X			X			RADAR-SET BACK	6' X 18'		330'
8A			8		X		X			RADAR-STOP BAR	6' X 6'		0'
8B			8		X		X			RADAR-STOP BAR	6' X 30'		12'

SIGNAL TIMINGS

INTERVAL	PHASE 2		4	5	6		8
WALK	7		7		7		7
DON'T WALK	23		30		29		20
MIN INITIAL	15		8	8	15		8
MAX INITIAL	37				37		
ADD/VEH	1.5				1.5		
VEH EXT	6.0		3.0	3.0	6.0		3.0
TIM BFR REDUC	15				15		
TIME TO REDUC	30				30		
MIN GAP	2.5				2.5		
MAX LIMIT	60		40	20	60		40
MAXIMUM 2							
YELLOW	4.6		3.5	3.0	4.6		3.5
RED CLEAR	3.9		3.3	3.5	3.9		3.3



ROUTE NUMBER	US 21		S-641	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	25	35
GRADE (%)	+1.5	-1.4	+1.8	+2.0

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Thomas W Feemster
10/1/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED TWF
DRAWN TWF
CHECKED
REVIEWED
RECOMMENDED

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA, S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21 @ S-641 (FLINT HILL RD) / RETAIL DR

CITY | COUNTY: YORK

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER | DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4665

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

10 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

PEDESTRIAN SIGNALS: EXT. △ P PROP. ▲ P W/ACT. & SIGN

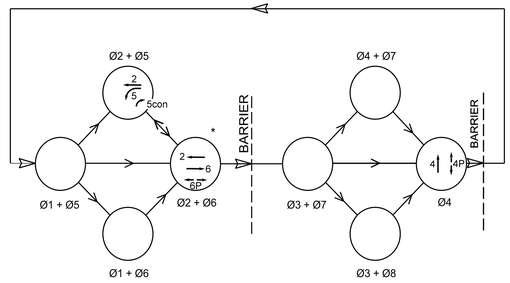
VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER		2	4A	4,5con	5	6		4P	6P	
LENS		R	◂R	R	◂R	R				
		Y	◂Y	Y Y▸	◂Y	Y				
		G	◂G	G G▸	◂G	G				
PHASE		2	4	4 | 5	5	6		4P	6P	
SIZE		12"	12"	12"	12"	12"		16"	16"	
QUANTITY		2	2	1	2	3		2	2	

OLA= OLC=
OLB= OLD=

METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*US 21 COORDINATED



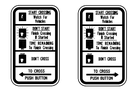
FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS6

TABLE OF OPERATION	PHASE IN OPERATION							
SIGNAL HEAD #			Ø2 + Ø5	Ø2 + Ø6		Ø4		FLASH
2			G	G		R		Y
4A			◂R	◂R		◂G		◂R
4,5con			R G▸	R		G		R
5			◂G	◂R		◂R		◂R
6			R	G		R		Y
4P			DW	DW		W	DW	DRK
6P			DW	W		DW	DW	DRK

INSTALL PEDESTRIAN PUSH BUTTON SIGNS



R10-3eL 9" X 15"

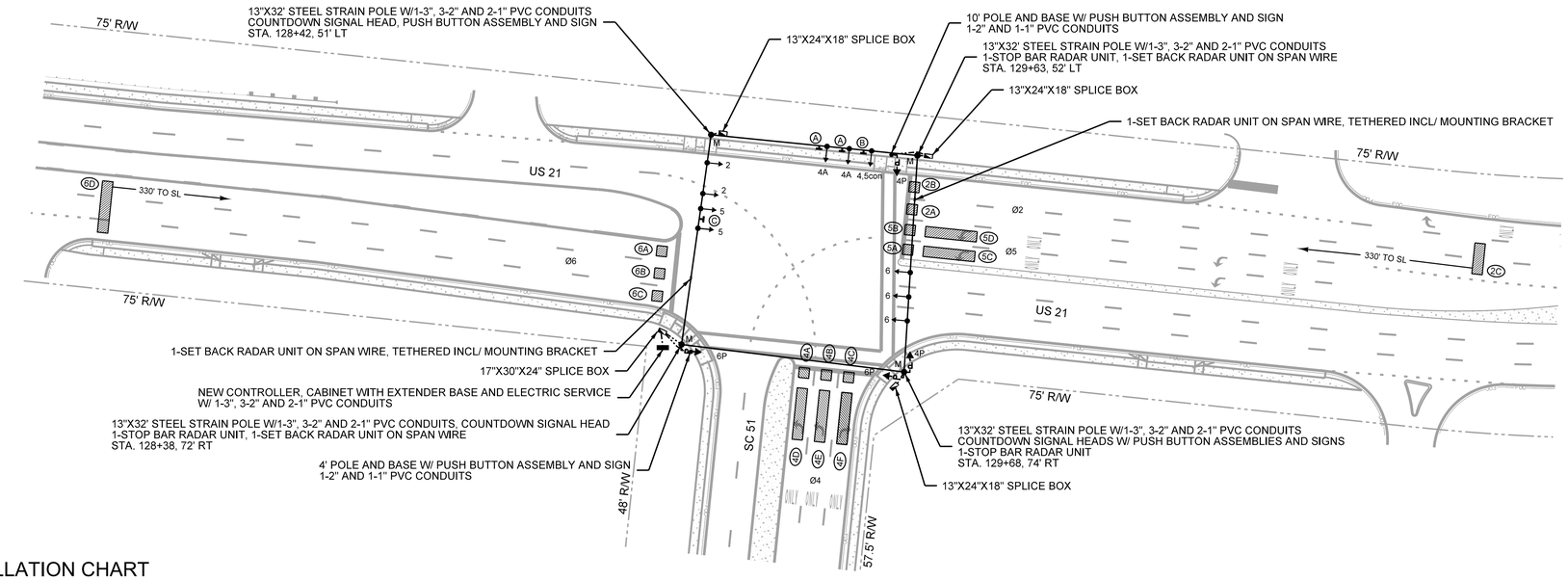
R10-3eR 9" X 15"

SIGNS

Ⓐ  R3–5L

Ⓑ  R3–5R

Ⓒ  R3–4–24



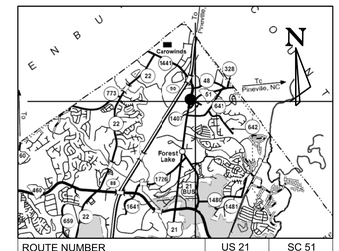
RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	LOCK X	NON-LOCK X	PULSE X	PRES X	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DIST. FROM ℄
2A,2B			2		X		X			RADAR-STOP BAR	6' X 6'		0'
2C			2	X			X			RADAR-SET BACK	6' X 18'		330'
4A,4B,4C			4		X		X			RADAR-STOP BAR	6' X 6'		0'
4D,4E,4F			4		X		X			RADAR-STOP BAR	6' X 30'		12'
5A,5B			5		X		X			RADAR-STOP BAR	6' X 6'		0'
5C,5D			5		X		X			RADAR-STOP BAR	6' X 30'		12'
6A,6B,6C			6		X		X			RADAR-STOP BAR	6' X 6'		0'
6D			6	X			X			RADAR-SET BACK	6' X 30'		330'

SIGNAL TIMINGS

	PHASE							
		2		4	5	6		8
WALK				7		7		
DON'T WALK				32		32		
MIN INITIAL		15		8	8	15		
MAX INITIAL		37				37		
ADD/VEH		1.5				1.5		
VEH EXT		6.0		3.0	3.0	6.0		
TIM BFR REDUC		15				15		
TIME TO REDUC		30				30		
MIN GAP		2.5				2.5		
MAX LIMIT		60		40	20	60		
MAXIMUM 2								
YELLOW		4.5		4.4	3.0	4.5		
RED CLEAR		2.1		3.9	3.7	2.1		

INTERVAL



ROUTE NUMBER	US 21		SC 51	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45		45
GRADE (%)	-1.4	+1.4		+0

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Digitally signed by Thomas W Feemster
Date: 2023.10.11 10:41:12 -04'00'
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17971 THOMAS W. FEEMSTER

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED	TWF
DRAWN	TWF
CHECKED	
REVIEWED	
RECOMMENDED	

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE: TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION: US 21 @ SC 51

CITY: | COUNTY: YORK

APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER | DISTRICT ENGINEERING ADMINISTRATOR

SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4706

DocuSign Envelope ID: 4DB3A032-8DF2-44F6-81E2-F755408B0CF5

SIGNAL EQUIPMENT

ONE (1) 8 PHASE FULLY ACTUATED STANDARD
2070 CONTROLLER WITH FLASHER, SIGNAL MONITOR UNIT,
AND BASE - MOUNTED 322A CABINET. EXT. ▭ PROP. ▬

7 RADAR CONTACT CLOSURE VEHICLE DETECTOR UNITS

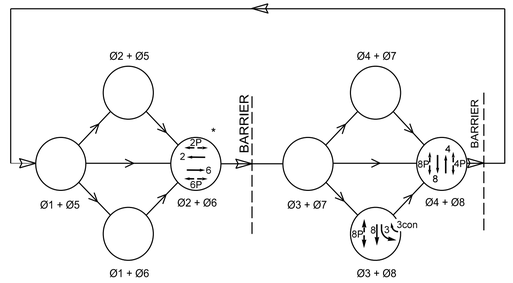
PEDESTRIAN SIGNALS: EXT. P PROP. P W/ACT. & SIGN

VEHICLE SIGNALS: EXT. ○→ PROP. ●→

HEAD NUMBER	2F	2	2,3con	3	4	6F	6	8F	8	2P	4P	6P	8P
LENS	◄R	R	R	◄R	R	◄R	R	◄R	R				
	◄Y	Y	Y Y►	◄Y	Y	◄Y	Y	◄Y	Y				
	◄FY	G	G G►	◄G	G	◄FY	G	◄FY	G				
PHASE	OLA	2	2 3	3	4	OLC	6	OLD	8	2P	4P	6P	8P
SIZE	12"	12"	12"	12"	12"	12"	12"	12"	12"	16"	16"	16"	16"
QUANTITY	1	1	1	2	2	1	2	1	2	2	2	2	2

OLA=Ø2 (FYA) OLC=Ø6 (FYA)
OLB= OLD=Ø8 (FYA)
METAL POLES AS NECESSARY: EXT. ○ PROP. ●M
WOOD POLES AS NECESSARY: EXT. ◒ PROP. ●W

NEMA PHASING



NOTE: ACTUATED PHASES HAVING NO CALL, SHALL BE SKIPPED

*_____ STREET COORDINATED



FLASHING OPERATION

NOTES:
1. COORDINATE WITH EXISTING UTILITIES FOR POLE AND CONDUIT LOCATIONS
2. RETURN ALL EXISTING SIGNAL EQUIPMENT AND POLES TO SCDOT (WHERE APPLICABLE)
3. WHEN ROUTING LOOP LEAD-IN CABLE FROM THE ROADWAY TO A JUNCTION BOX, INSTALL LOOP LEAD-IN A 1" PVC CONDUIT PLACED UNDER THE CURB AND GUTTER AND SIDEWALK.
4. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS.
5. SET PHASES 2 AND 6 TO MINIMUM RECALL
6. INSTALL REFLECTIVE BACKPLATES ON ALL SIGNAL HEADS.
7. CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY DISTRICT 4 SIGNAL SHOP.
8. SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP MUST INSPECT ALL TRAFFIC SIGNAL WORK.
9. NOTIFY SCDOT'S DISTRICT 4 TRAFFIC SIGNAL SHOP BEFORE PLACING TRAFFIC SIGNAL IN OPERATION.
10. BEFORE CONSTRUCTION BEGINS SCDOT'S TRAFFIC SIGNAL SHOP SHOULD BE INCLUDED IN ANY PRECONSTRUCTION CONFERENCES.
11. ALL WORK TO BE PERFORMED WITHIN SCDOT RIGHT OF WAY.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	TS7

N

INSTALL PEDESTRIAN PUSH BUTTON SIGNS

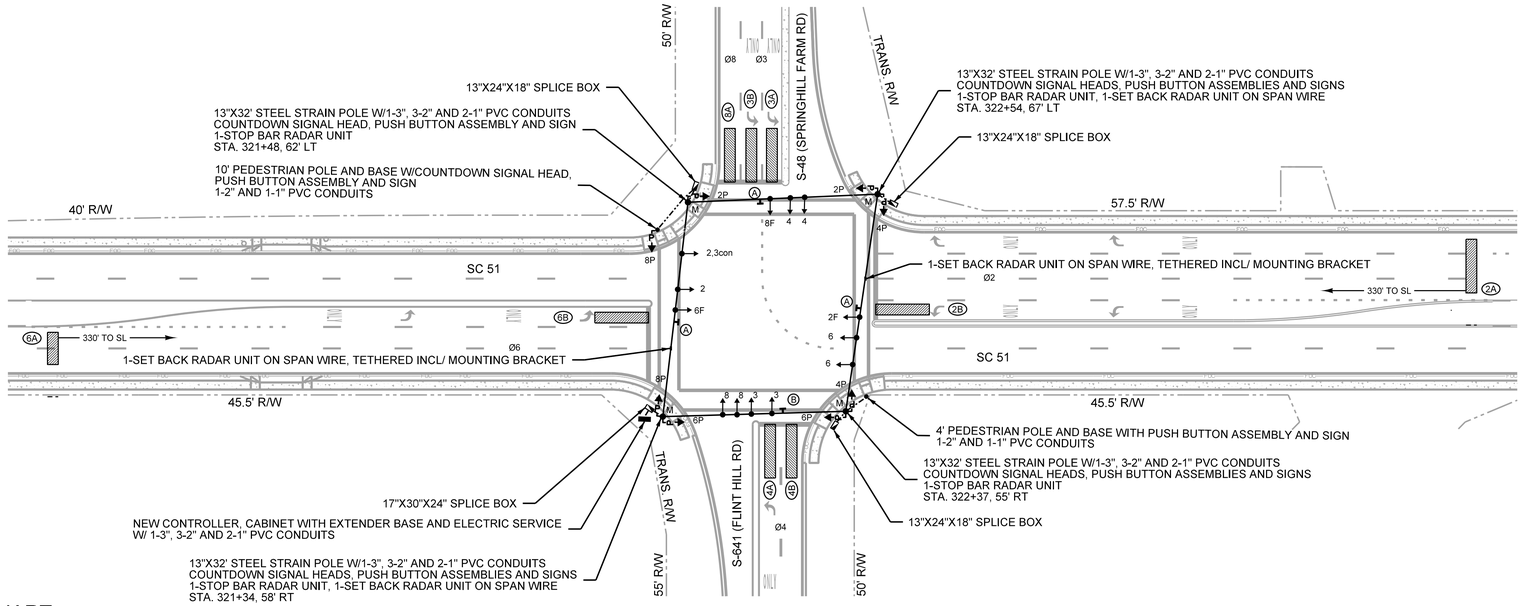


TABLE OF OPERATION	PHASE IN OPERATION								
SIGNAL HEAD #				Ø2 + Ø6		Ø3 + Ø8		Ø4 + Ø8	FLASH
2				G		R		R	Y
2,3con				G		R G►		R	Y
2F				~~FY~~		~~◄R~~		~~◄R~~	~~◄Y~~
3				~~◄R~~		~~◄G~~		~~◄R~~	~~◄R~~
4				R		R		G	R
6				G		R		R	Y
6F				~~FY~~		~~◄R~~		~~◄R~~	~~◄Y~~
8F				~~◄R~~		~~FY~~		~~FY~~	~~◄R~~
8				R		G		G	R
2P				W		DW		DW	DRK
4P				DW		DW		W	DRK
6P				W		DW		DW	DRK
8P				DW		W		W	DRK

SIGNS

Ⓐ LEFT TURN YIELD ON FLASHING — R10–12A–30

Ⓑ R3–4–24

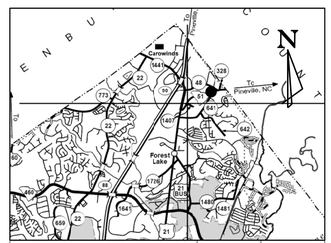


RADAR DETECTION INSTALLATION CHART

PHASE/ LOOP LTR#	DETECTOR AMP NO.	DETECTOR CHAN NO.	WIRED TO PHASE(S)	OPERATION LOCK	OPERATION NON-LOCK	OPERATION PULSE	OPERATION PRES	OPERATION DELAY SEC	OPERATION EXT SEC	SPECIAL FEATURES TIME OF DAY-TOD SWITCHING, etc.	DETECTION AREA SIZE X		DETECTION AREA DIST. FROM ℄
2A			2	X			X			RADAR-SET BACK	6' X 30'		330'
2B			2		X		X			RADAR-STOP BAR	6' X 30'		0'
3A,3B			3		X		X			RADAR-STOP BAR	6' X 30'		0'
4A,4B			4		X		X			RADAR-STOP BAR	6' X 30'		0'
6A			6	X			X			RADAR-SET BACK	6' X 18'		330'
6B			6		X		X			RADAR-STOP BAR	6' X 30'		0'
8A			8		X		X			RADAR-STOP BAR	6' X 30'		0'

SIGNAL TIMINGS

INTERVAL	PHASE 2	3	4		6	7	8
WALK	7		7		7		7
DON'T WALK	25		28		25		25
MIN INITIAL	15	8	8		15		8
MAX INITIAL	37				37		
ADD/VEH	1.5				1.5		
VEH EXT	6.0	3.0	3.0		6.0		3.0
TIM BFR REDUC	15				15		
TIME TO REDUC	30				30		
MIN GAP	2.5				2.5		
MAX LIMIT	60	20	40		60		40
MAXIMUM 2							
YELLOW	4.7	3.0	4.5		4.7		4.5
RED CLEAR	3.8	3.5	3.3		3.8		3.3



ROUTE NUMBER	SC 51		S-641	
APPROACH DIRECTION	N	S	E	W
SIGNAL DESIGN SPEED	45	45	45	45
GRADE (%)	+2.5	-2.5	-1.0	+1.0

* ESTIMATED

FILE # : SHEET # :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION FEEMSTER PC No. C03193

Thomas W. Feemster
10/1/2023

Feemster, P.C.
2746 York Hwy
York, South Carolina 29745
Tel: (803) 372-8032
Fax: (803) 792-0488

DATE	REVISIONS

DESIGNED TWF
DRAWN TWF
CHECKED
REVIEWED
RECOMMENDED

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION
COLUMBIA , S.C.

SUBJECT TITLE
TRAFFIC SIGNAL PLAN

SPECIFIC LOCATION
SC 51 @ S-48 (STATESVIEW RD) / S-641 (FLINT HILL RD)

CITY
COUNTY
YORK

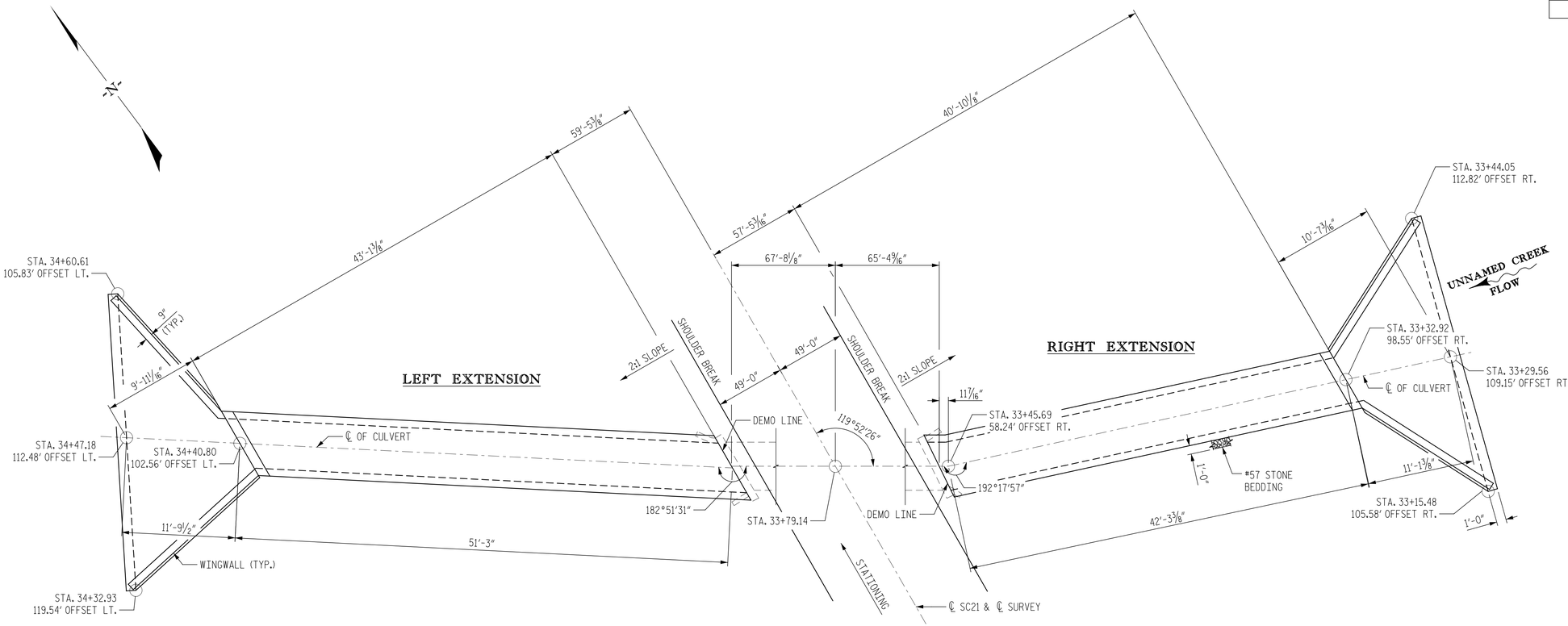
APPROVED BY

DISTRICT # 4 TRAFFIC ENGINEER
DISTRICT ENGINEERING ADMINISTRATOR

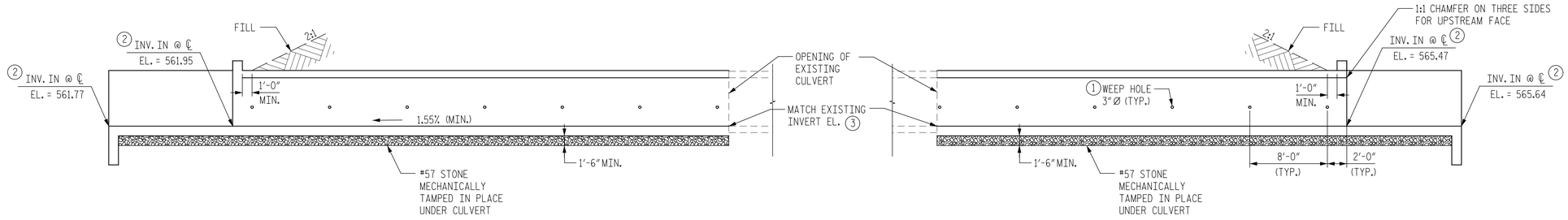
SCALE	DATE	SHEET NO.	INDEX NO.
1"= 40'	11-29-2022	1 OF 1	TS 4704

DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S1



PLAN



ELEVATION OF CULVERT EXTENSION

(LOOKING IN DIRECTION OF STATIONING)

NOTE:
RIPRAP NOT SHOWN FOR CLARITY.
SEE GENERAL NOTES THIS SHEET
FOR ADDITIONAL INFORMATION.

GENERAL NOTES

REFERENCED SPECIFICATIONS:
AASHTO 2012 LRFD BRIDGE DESIGN SPECIFICATIONS 6TH ED., WITH INTERIM REVISIONS THROUGH 2013.

LIVE LOAD: AASHTO HL-93.

DESIGN FILL HEIGHT = 27'-1 1/2"

CONTRACTOR SHALL REMOVE PORTIONS OF THE EXISTING CULVERT THAT INTERFERE WITH THE CONSTRUCTION OF THE NEW STRUCTURE AND CONSTRUCT NEW STRUCTURE IN ACCORDANCE WITH THESE PLANS.

ALL DIMENSIONS ARE SUBJECT TO EXISTING FIELD CONDITIONS AND SHALL BE VERIFIED BY THE CONTRACTOR.

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION.

CONCRETE SHALL BE CLASS 4000 WITH A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

REINFORCING STEEL SHALL BE GRADE 60 - AASHTO M31 TYPE W.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".

CONTRACTOR SHALL CONSTRUCT 3/4" MINIMUM FILLETS AT ALL JUNCTIONS OF SLAB AND WALL.

REINFORCING STEEL MAY BE FIELD BENT OR FIELD CUT TO MAINTAIN PROPER CLEARANCES AS SHOWN ON THE PLANS.

BACKFILL OVER AND AROUND STRUCTURES SHALL BE IN ACCORDANCE WITH SUBSECTION 205.4.2 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE WELL GRADED AND GRANULAR.

EXCAVATION REQUIRED FOR CULVERT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE STANDARD SPECIFICATIONS.

CONSTRUCT WEEP HOLES AND FRENCH DRAINS IN ACCORDANCE WITH SUBSECTION 702.4.19 OF THE STANDARD SPECIFICATIONS.

SEE ROADWAY PLANS FOR CUT/FILL, RIPRAP, AND GEOTEXTILE FABRIC SPECIFICATIONS AND QUANTITIES.

ADDITIONAL RIPRAP AND GEOTEXTILE FABRIC SHALL BE PLACED IN ACCORDANCE WITH SCDOT STANDARD DRAWING NO. 722-305-00 AND 804-205-00.

THE STRUCTURE OF THE EXISTING CULVERT INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING CULVERT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

SEE SHEET G2 FOR CULVERT FOUNDATION NOTES.

NOTES:

1. SEE SHEETS S4 FOR ADDITIONAL WEEP HOLE DETAILS.
2. CONTRACTOR SHALL MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION. AND ENSURE THAT THE SHOWN ELEVATIONS ALLOW FOR THE MINIMUM SLOPE OF 1.55%
3. CONTRACTOR SHALL CLEAN OUT THE EXISTING SEDIMENT AND MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION.

HYDROLOGY DATA:
D.A. = 0.10 SQ. MI. = 64.3 AC.
Q50 = 205 CFS
VEL.= 15.64 FT./SEC.
50 YR HW EL. 570.77 FT.
INCLUDING 5.9 FT. HEADWATER
Q100 = 232 CFS
VEL. = 16.08 FT./SEC.
100 YR HW EL. 571.48 FT.
INCLUDING 6.6 FT. HEADWATER
OVERTOPPING FLOOD:
Q = 656.83 CFS
PROBABILITY = LESS THAN 0.2%

SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

DocuSigned by: James D Fitz Morris 32632D0E0204BC... 1/18/2023

NORTH CAROLINA No. 19527 JAMES D. FITZ MORRIS

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (1)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

STA. 33+79.14 DESIGN FILL: 27'-1 1/2" 2:1 FILL SLOPE

COUNTY	ROUTE
YORK	US-21

$USERNAME$ $DATE$ $TIME$ $FILE$

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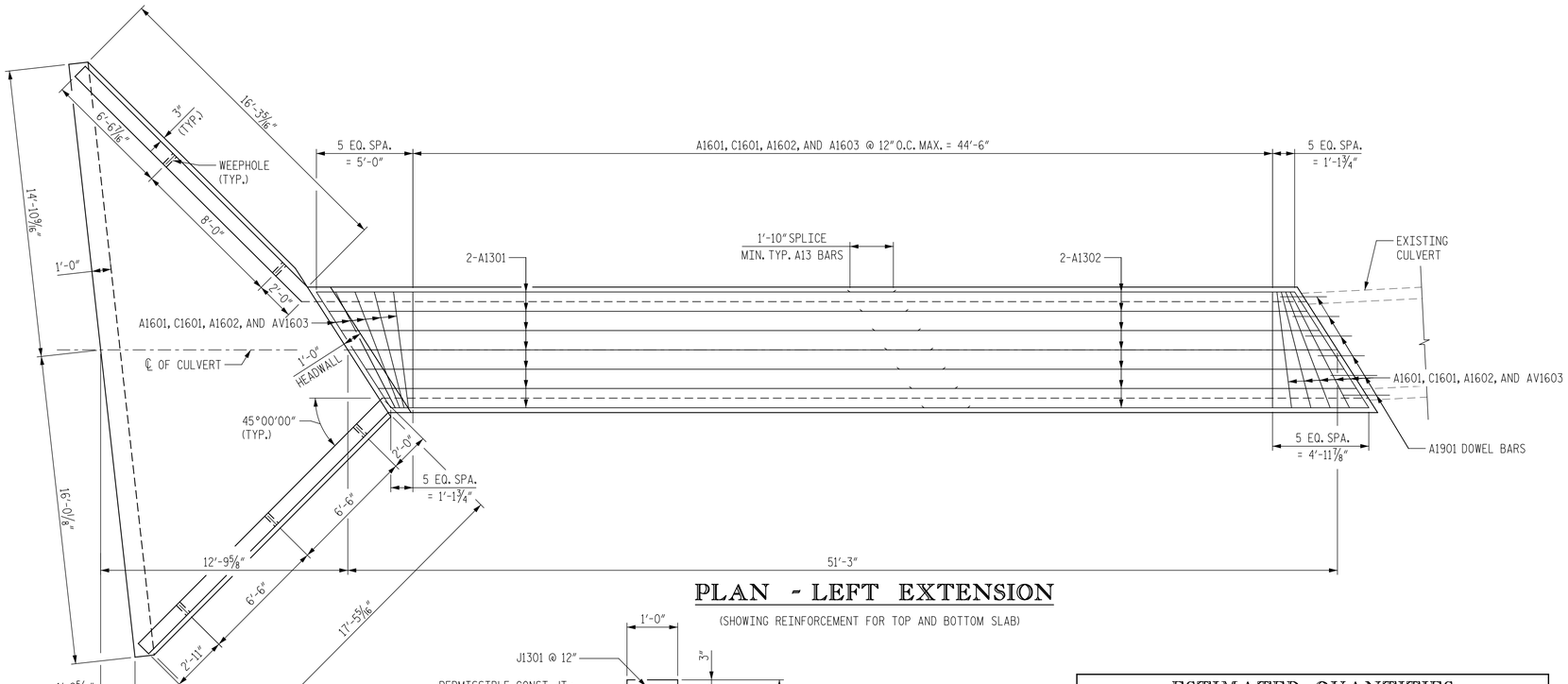
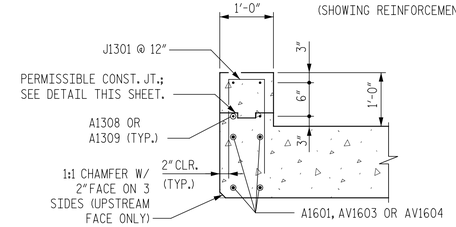
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S2



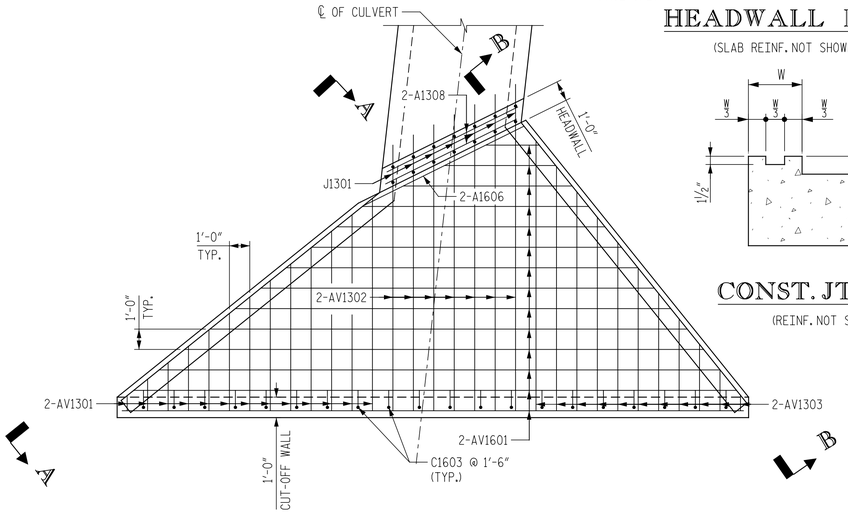
PLAN - LEFT EXTENSION

(SHOWING REINFORCEMENT FOR TOP AND BOTTOM SLAB)



HEADWALL DETAIL

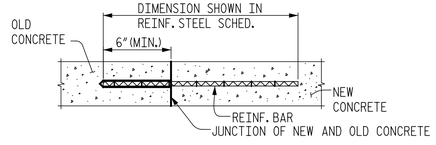
(SLAB REINF. NOT SHOWN)



APRON PLAN

CONST. JT. DETAIL

(REINF. NOT SHOWN)



ADHESIVELY BONDED DOWEL DETAIL

CLEAN CONTACT SURFACE OF OLD CONCRETE. ENSURE THAT THE SURFACE IS FREE OF LAITANCE AND ROUGHEN THE SURFACE TO AN AMPLITUDE OF 1/4".

PROVIDE AND INSTALL ANCHORAGES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION FOR ADHESIVELY BONDED ANCHORS AND DOWELS. USE AN ADHESIVE BONDING SYSTEM THAT HAS A MINIMUM BOND STRENGTH OF 1.5 KSI. FIELD TESTING OF THE ANCHORAGES IS NOT REQUIRED.

INCLUDE ALL COSTS OF ADHESIVELY BONDED DOWELS IN THE CONTRACT UNIT PRICE BID FOR REINFORCING STEEL. INCLUDE ALL COSTS OF CLEANING AND ROUGHENING THE EXISTING CONCRETE SURFACE IN THE CONTRACT UNIT PRICE BID FOR CLASS 4000 CONCRETE.

ESTIMATED QUANTITIES

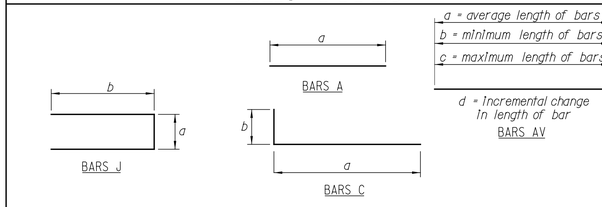
BID ITEM	ITEM	UNIT	TOTAL
7011402	CONC./STRUC. - CLASS 4000 (CULVERT)	CY	91
7031100	REINF. STEEL FOR STRUCT. (RDWAY)	LBS	14,448
2052000	No. 57 STONE FOR BACKFILL	TON	58
2028605	CULVERT EXTENSION PREPARATION	EA	2
2041000	STRUCTURE EXCAVATION FOR CULVERT	CY	494

*PRICING FOR FILTER FABRIC SHALL BE INCLUDED WITH NO. 57 STONE

REINFORCING SCHEDULE

MARK	NO.	a	b	c	d	e	LENGTH
A1301	96	30'-0"	-	-	-	-	30'-0"
A1302	48	23'-1"	-	-	-	-	23'-1"
A1303	48	15'-0"	-	-	-	-	15'-0"
A1304	12	17'-7"	-	-	-	-	17'-7"
A1305	12	18'-9"	-	-	-	-	18'-9"
A1306	12	16'-11"	-	-	-	-	16'-11"
A1307	12	17'-9"	-	-	-	-	17'-9"
A1308	4	7'-1"	-	-	-	-	7'-1"
A1309	4	6'-3"	-	-	-	-	6'-3"
AV1301	26	5'-6 1/2"	8 1/2"	10'-4 1/2"	9 5/8"	-	5'-6 1/2"
AV1302	14	14'-6"	13'-0"	16'-0"	6"	-	14'-6"
AV1303	22	6'-11 1/2"	9"	13'-2"	1'-3"	-	6'-11 1/2"
AV1304	24	5'-10 1/2"	11 1/2"	10'-9 1/2"	10 1/2"	-	5'-10 1/2"
AV1305	12	13'-9 1/2"	13'-2"	14'-5"	3"	-	13'-9 1/2"
AV1306	22	6'-8"	1'-1"	12'-3 1/2"	1'-1 1/2"	-	6'-8"
A1601	204	5'-5 1/2"	-	-	-	-	5'-5 1/2"
A1602	204	6'-6 1/2"	-	-	-	-	6'-6 1/2"
A1603	336	6'-1"	-	-	-	-	6'-1"
A1604	2	30'-4"	-	-	-	-	30'-4"
A1605	2	29'-0"	-	-	-	-	29'-0"
A1606	2	8'-9 1/2"	-	-	-	-	8'-9 1/2"
A1607	2	7'-5"	-	-	-	-	7'-5"
AV1601	28	16'-6"	2'-7"	30'-4 1/2"	2'-1"	-	16'-6"
AV1602	26	15'-5"	1'-10 1/2"	28'-11 1/2"	2'-0"	-	15'-5"
AV1603	40	6'-7"	6'-0 1/2"	7'-1 1/2"	2"	-	6'-7"
AV1604	32	6'-1"	6'-0"	6'-2"	1/2"	-	6'-1"
A1901	40	3'-0"	-	-	-	-	3'-0"
C1601	408	2'-8"	2'-8"	-	-	-	5'-4"
C1602	136	6'-6 1/2"	2'-1"	-	-	-	8'-7 1/2"
C1603	40	2'-6"	1'-0"	-	-	-	3'-6"
J1301	13	8"	2'-0"	-	-	-	4'-8"

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

SOUTH CAROLINA
KCI TECHNOLOGIES INC.
CONSULTING ENGINEERS
No. C00651
CERTIFICATE OF AUTHORIZATION

DocuSigned by: James D. Fitz Morris
3D03F8D0220548C...
CAROLINA
No. 19527
ENGINEER
JAMES D. FITZ MORRIS
1/18/2023

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (2)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

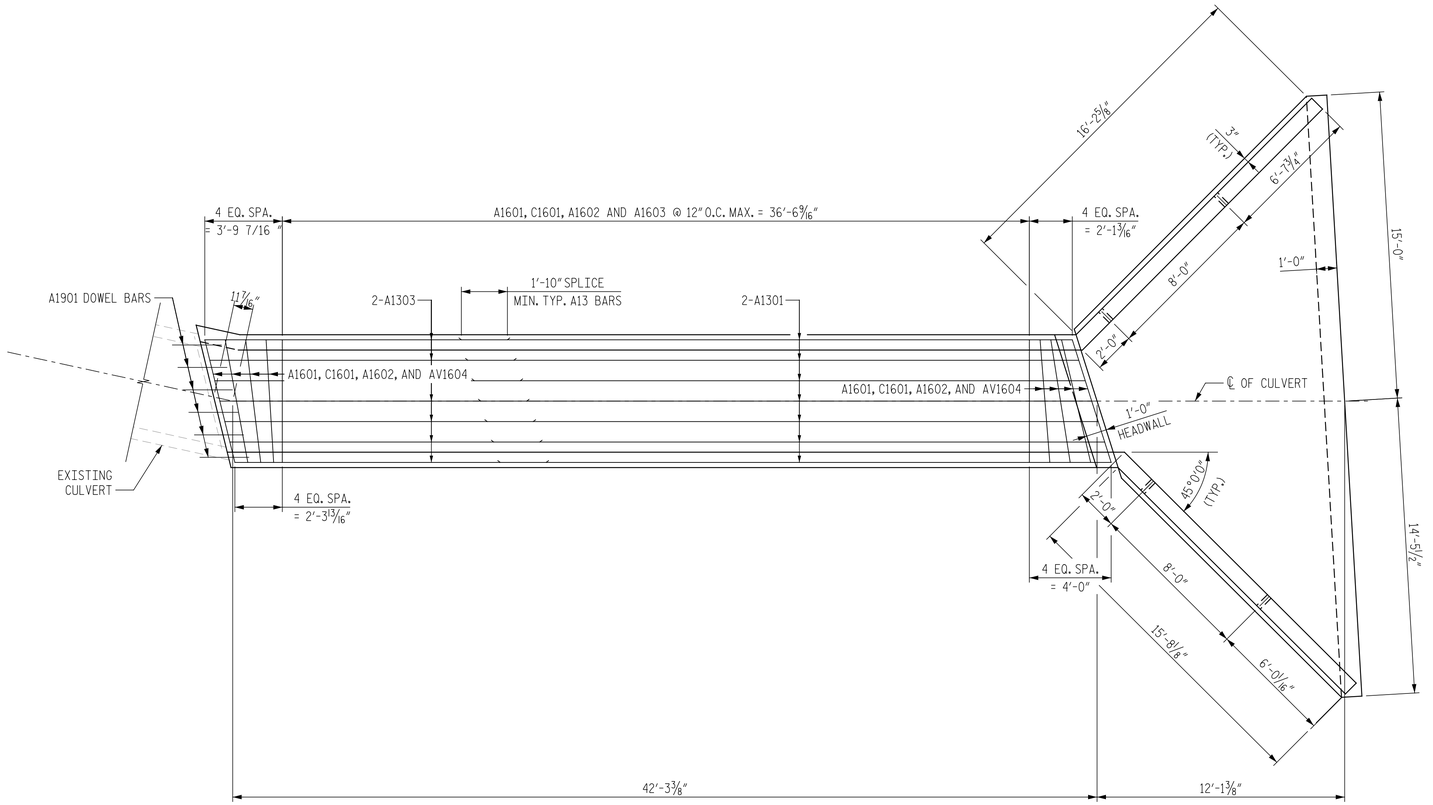
STA. 33+79.14 DESIGN FILL: 27'-1 1/2" 2:1 FILL SLOPE

COUNTY	ROUTE
YORK	US-21

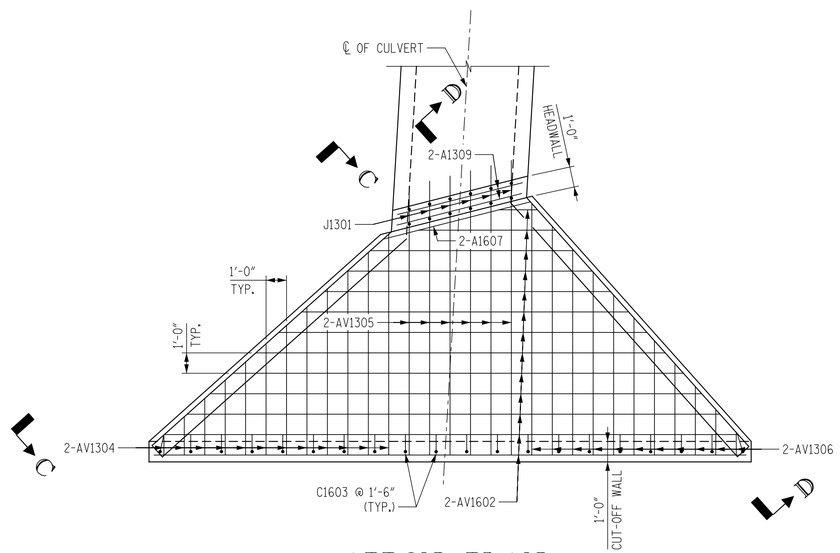
$USERNAME$ $DATE$ $TIME$ $FILE$

DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	SC-51	S3



PLAN - RIGHT EXTENSION



APRON PLAN

$USERNAME$ $DATE$ $TIME$ $FILE$

SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

Digitally signed by James D. Fitz Morris 32632f0f0202548c... SOUTH CAROLINA No. 19527 JAMES D. FITZ MORRIS 1/18/2023

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (3)

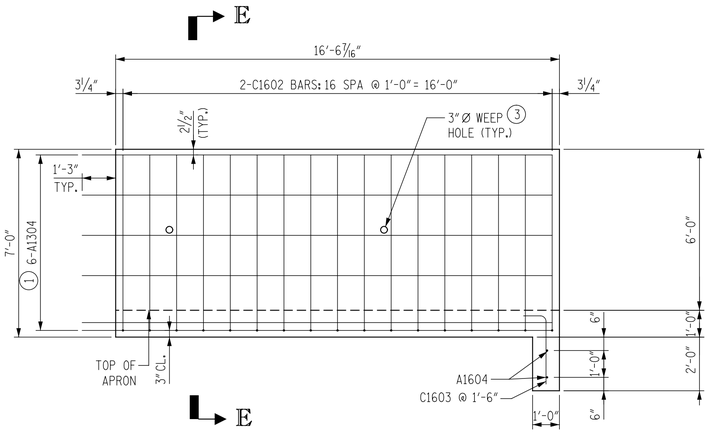
FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

STA. 33+79.14 DESIGN FILL: 27'-1½" 2:1 FILL SLOPE

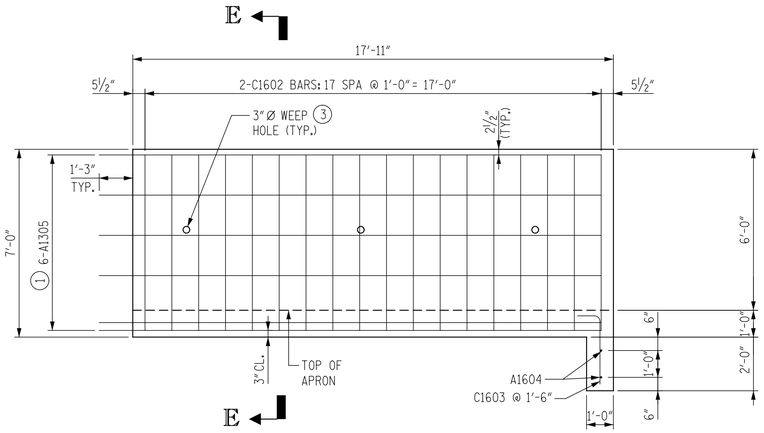
COUNTY: YORK ROUTE: US-21

DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

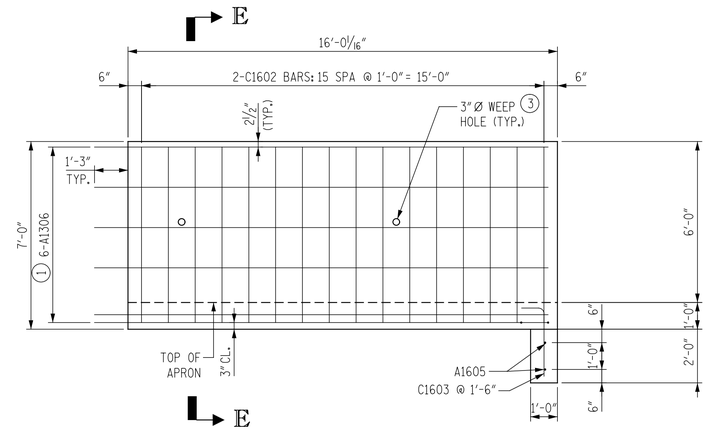
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S4



SECTION A-A



SECTION B-B



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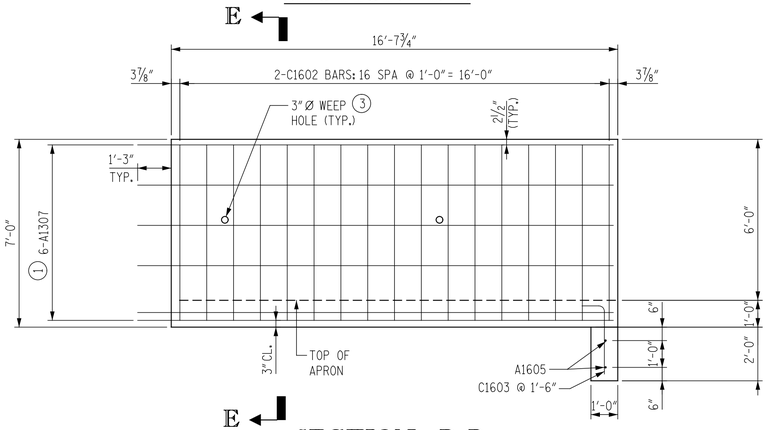

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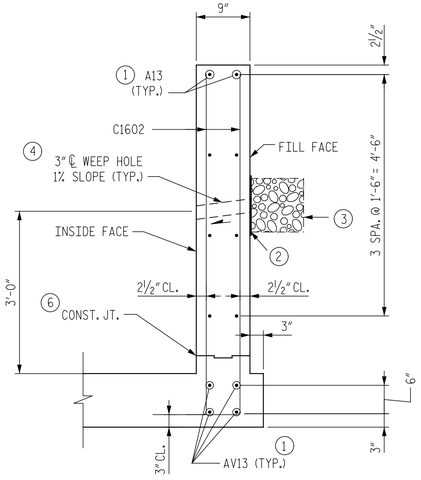
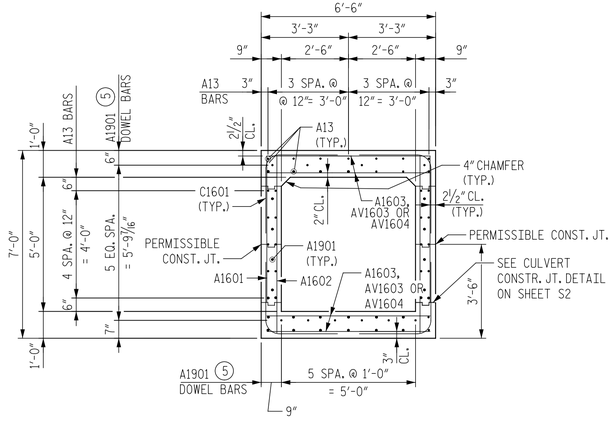
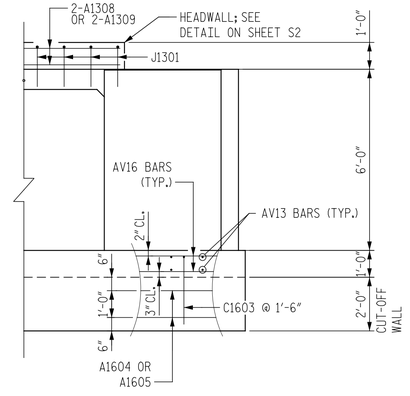


SECTION E-E

(SHOWING WING WALL REINF. ONLY)



ELEVATION THROUGH CULVERT



PARTIAL ELEVATION THROUGH END OF APRON

1. FIELD BEND AND/OR CUT TO MAINTAIN COVER AND EXTEND A MINIMUM OF 1'-3" INTO CULVERT WALL.
2. 12" X 12" FILTER FABRIC SECURED TO FACE OF WALL.
3. 1 CU. FT. #57 STONE WRAPPED IN FILTER FABRIC (TYP. EA. WEEP HOLE).
4. SEE SHEET S1 FOR SPACING OF WEEP HOLES IN CULVERT. ADJUST SPACING OF REINFORCEMENT TO PROVIDE 2" MINIMUM CLEAR DISTANCE FROM HOLES.
5. PLACE DOWELS IN CENTER OF EXISTING CONCRETE. SEE DOWEL DETAIL ON SHEET S2 FOR ADDITIONAL INFORMATION.
6. SEE SHEET S2 FOR DETAIL.

SOUTH CAROLINA — KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 — CERTIFICATE OF AUTHORIZATION

Document by: ARCHIVE — JAMES D. FITZ MORRIS — SOUTH CAROLINA — No. 19527 — REGISTERED PROFESSIONAL ENGINEER — 1/18/2023

KCI TECHNOLOGIES — ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETIALS (4)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

STA. 33+79.14 DESIGN FILL: 27'-1 1/2" 2:1 FILL SLOPE

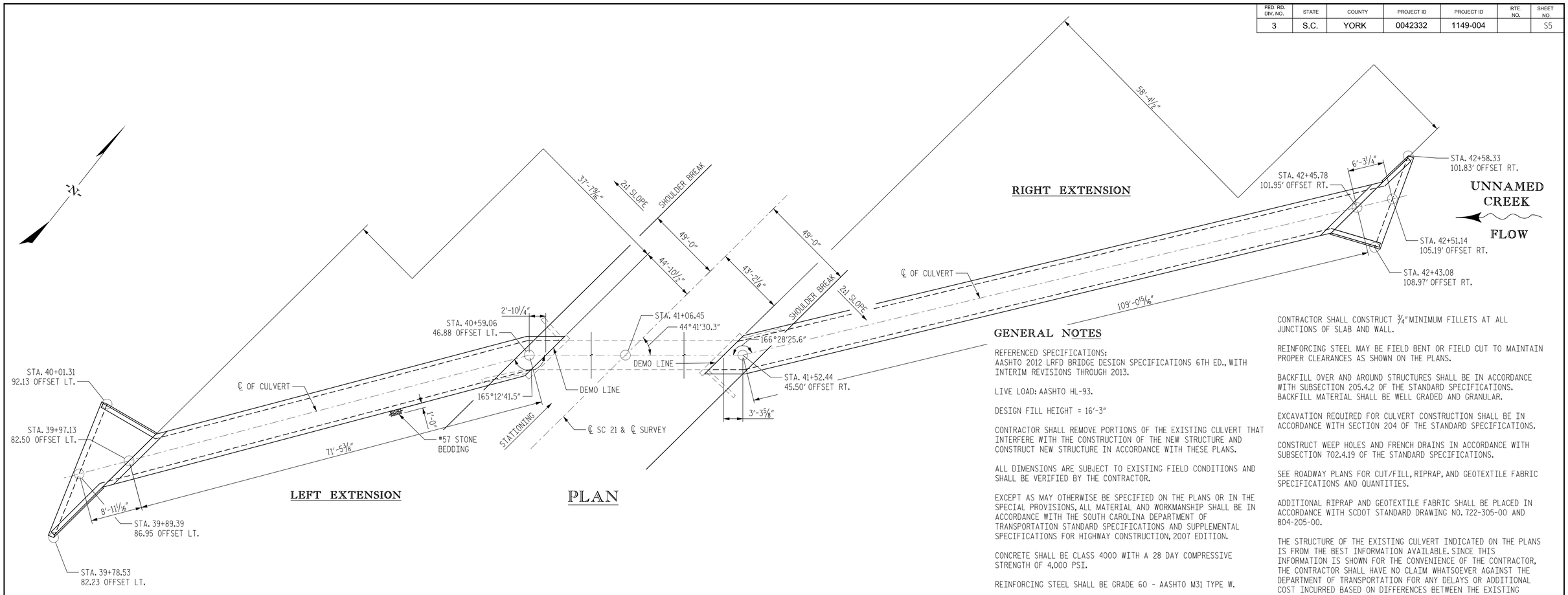
REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

COUNTY: YORK — ROUTE: US-21

$USERNAME$ $DATE$ $TIME$ $FILE$

DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S5



GENERAL NOTES

REFERENCED SPECIFICATIONS:
AASHTO 2012 LRFD BRIDGE DESIGN SPECIFICATIONS 6TH ED., WITH INTERIM REVISIONS THROUGH 2013.

LIVE LOAD: AASHTO HL-93.

DESIGN FILL HEIGHT = 16'-3"

CONTRACTOR SHALL REMOVE PORTIONS OF THE EXISTING CULVERT THAT INTERFERE WITH THE CONSTRUCTION OF THE NEW STRUCTURE AND CONSTRUCT NEW STRUCTURE IN ACCORDANCE WITH THESE PLANS.

ALL DIMENSIONS ARE SUBJECT TO EXISTING FIELD CONDITIONS AND SHALL BE VERIFIED BY THE CONTRACTOR.

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION.

CONCRETE SHALL BE CLASS 4000 WITH A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

REINFORCING STEEL SHALL BE GRADE 60 - AASHTO M31 TYPE W.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾".

CONTRACTOR SHALL CONSTRUCT ¾" MINIMUM FILLETS AT ALL JUNCTIONS OF SLAB AND WALL.

REINFORCING STEEL MAY BE FIELD BENT OR FIELD CUT TO MAINTAIN PROPER CLEARANCES AS SHOWN ON THE PLANS.

BACKFILL OVER AND AROUND STRUCTURES SHALL BE IN ACCORDANCE WITH SUBSECTION 205.4.2 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE WELL GRADED AND GRANULAR.

EXCAVATION REQUIRED FOR CULVERT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE STANDARD SPECIFICATIONS.

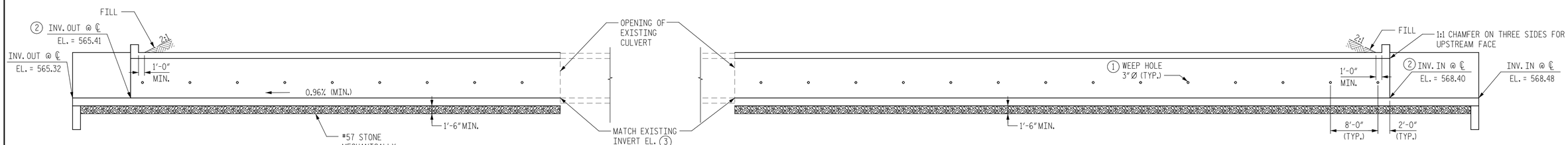
CONSTRUCT WEEP HOLES AND FRENCH DRAINS IN ACCORDANCE WITH SUBSECTION 702.4.19 OF THE STANDARD SPECIFICATIONS.

SEE ROADWAY PLANS FOR CUT/FILL, RIPRAP, AND GEOTEXTILE FABRIC SPECIFICATIONS AND QUANTITIES.

ADDITIONAL RIPRAP AND GEOTEXTILE FABRIC SHALL BE PLACED IN ACCORDANCE WITH SCDOT STANDARD DRAWING NO. 722-305-00 AND 804-205-00.

THE STRUCTURE OF THE EXISTING CULVERT INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING CULVERT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

SEE SHEET G2 FOR CULVERT FOUNDATION NOTES.



ELEVATION OF CULVERT EXTENSION

(LOOKING IN DIRECTION OF STATIONING)

NOTE:
RIPRAP NOT SHOWN FOR CLARITY.
SEE GENERAL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.

NOTES:

1. SEE SHEET S8 FOR ADDITIONAL WEEP HOLE DETAILS.
2. CONTRACTOR SHALL MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION. AND ENSURE THAT THE SHOWN ELEVATIONS ALLOW FOR THE MINIMUM SLOPE OF 0.96%
3. CONTRACTOR SHALL CLEAN OUT THE EXISTING SEDIMENT AND MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION.

HYDROLOGY DATA:
D.A. = 0.142 SQ. MI. = 90.9 AC.
Q50 = 249 CFS
VEL.= 14.65 FT./SEC.
50 YR HW EL. 574.56 FT.
INCLUDING 7.1 FT. HEADWATER
Q100 = 281 CFS
VEL. = 15.06 FT./SEC.
100 YR HW EL. 575.56 FT.
INCLUDING 8.1 FT. HEADWATER
OVERTOPPING FLOOD:
Q = 539.95 CFS
PROBABILITY = LESS THAN 0.2%

SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

Digitally signed by JAMES D. FITZ MORRIS
1/18/2023
REGISTERED No. 19527 PROFESSIONAL ENGINEER JAMES D. FITZ MORRIS

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (1)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

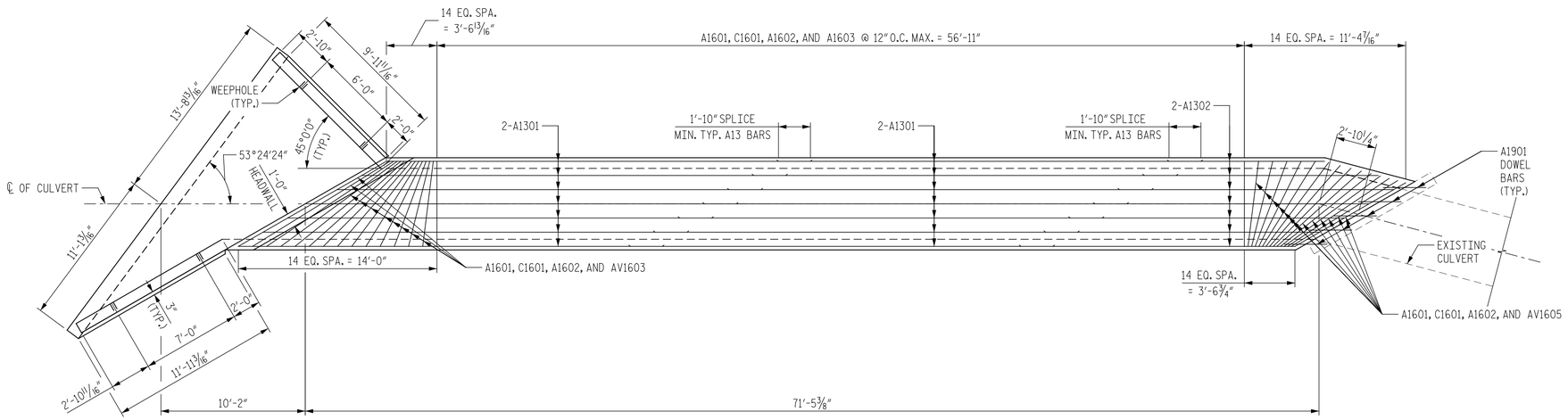
STA. 41+06.45 DESIGN FILL: 16'-3" 2:1 FILL SLOPE

COUNTY	ROUTE
YORK	US-21

$USERNAME$ $DATE$ $TIME$ $FILE$

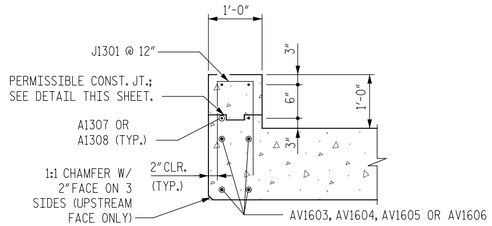
DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S6



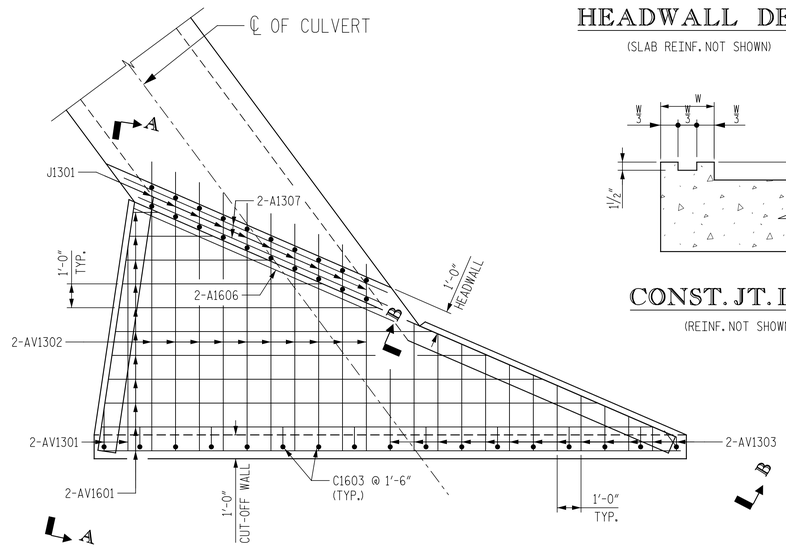
PLAN - LEFT EXTENSION

(SHOWING REINFORCEMENT FOR TOP AND BOTTOM SLAB)



HEADWALL DETAIL

(SLAB REINF. NOT SHOWN)



APRON PLAN

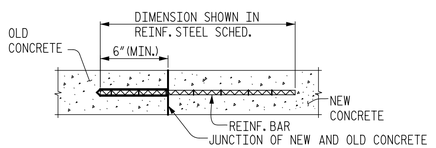
CONST. JT. DETAIL

(REINF. NOT SHOWN)

ESTIMATED QUANTITIES

BID ITEM	ITEM	UNIT	TOTAL
7011402	CONC./STRUC. - CLASS 4000 (CULVERT)	CY	149.9
7031100	REINF. STEEL FOR STRUCT. (RDWAY)	LBS	24,257
2052000	No. 57 STONE FOR BACKFILL	TON	81.1
2028605	CULVERT EXTENSION PREPARATION	EA	2
2041000	STRUCTURE EXCAVATION FOR CULVERT	CY	512

✳PRICING FOR FILTER FABRIC SHALL BE INCLUDED WITH NO. 57 STONE



ADHESIVELY BONDED DOWEL DETAIL

CLEAN CONTACT SURFACE OF OLD CONCRETE. ENSURE THAT THE SURFACE IS FREE OF LAITANCE AND ROUGHEN THE SURFACE TO AN AMPLITUDE OF 1/4".

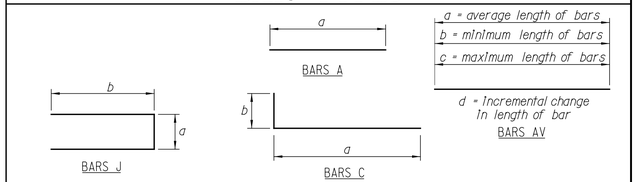
PROVIDE AND INSTALL ANCHORAGES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION FOR ADHESIVELY BONDED ANCHORS AND DOWELS. USE AN ADHESIVE BONDING SYSTEM THAT HAS A MINIMUM BOND STRENGTH OF 1.5 KSI. FIELD TESTING OF THE ANCHORAGES IS NOT REQUIRED.

INCLUDE ALL COSTS OF ADHESIVELY BONDED DOWELS IN THE CONTRACT UNIT PRICE BID FOR REINFORCING STEEL. INCLUDE ALL COSTS OF CLEANING AND ROUGHENING THE EXISTING CONCRETE SURFACE IN THE CONTRACT UNIT PRICE BID FOR CLASS 4000 CONCRETE.

REINFORCING SCHEDULE

MARK	NO.	a	b	c	d	e	LENGTH
A1301	288	30'-0"	-	-	-	-	30'-0"
A1302	48	18'-2"	-	-	-	-	18'-2"
A1303	12	11'-10"	-	-	-	-	11'-10"
A1304	12	12'-10"	-	-	-	-	12'-10"
A1305	12	9'-10"	-	-	-	-	9'-10"
A1306	12	7'-2"	-	-	-	-	7'-2"
A1307	4	12'-0"	-	-	-	-	12'-0"
A1308	4	11'-7"	-	-	-	-	11'-7"
AV1301	4	5'-1 1/2"	1'-9"	8'-6"	6'-9"	-	5'-1 1/2"
AV1302	20	10'-2"	7'-10"	12'-2"	5 1/4"	-	10'-2"
AV1303	26	3'-1 1/2"	6"	5'-9"	5 1/4"	-	3'-1 1/2"
AV1304	20	8'-1"	5'-4"	10'-3"	5 1/4"	-	8'-1"
AV1305	14	2'-2"	9"	3'-7"	6"	-	2'-2"
A1601	420	5'-2 1/2"	-	-	-	-	5'-2 1/2"
A1602	420	6'-3 1/2"	-	-	-	-	6'-3 1/2"
A1603	616	6'-1"	-	-	-	-	6'-1"
A1604	2	24'-4"	-	-	-	-	24'-4"
A1605	2	16'-4"	-	-	-	-	16'-4"
A1606	2	12'-0"	-	-	-	-	12'-0"
A1607	2	12'-5"	-	-	-	-	12'-5"
AV1601	22	12'-8"	1'-0"	24'-4"	2'-5 1/2"	-	12'-8"
AV1602	18	9'-3"	1'-2"	16'-4"	2'-0"	-	9'-3"
AV1603	56	9'-0 1/2"	6'-0 1/2"	12'-0 1/2"	1 1/2"	-	9'-0 1/2"
AV1604	56	8'-10"	6'-0 1/2"	11'-8"	4 1/2"	-	8'-10"
AV1605	56	7'-5 1/2"	6'-0 1/2"	9'-0"	2 1/2"	-	7'-5 1/2"
AV1606	56	7'-4 1/2"	6'-0 1/2"	8'-9"	2"	-	7'-4 1/2"
A1901	48	3'-0"	-	-	-	-	3'-0"
C1601	840	2'-8"	2'-8"	-	-	-	5'-4"
C1602	76	6'-3 1/2"	2'-1"	-	-	-	8'-4 1/2"
C1603	28	2'-6"	1'-0"	-	-	-	3'-6"
J1301	20	8"	2'-0"	-	-	-	4'-8"

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (2)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

STA. 41+06.45 DESIGN FILL: 16'-3" 2:1 FILL SLOPE

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

COUNTY: YORK
ROUTE: US-21

KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

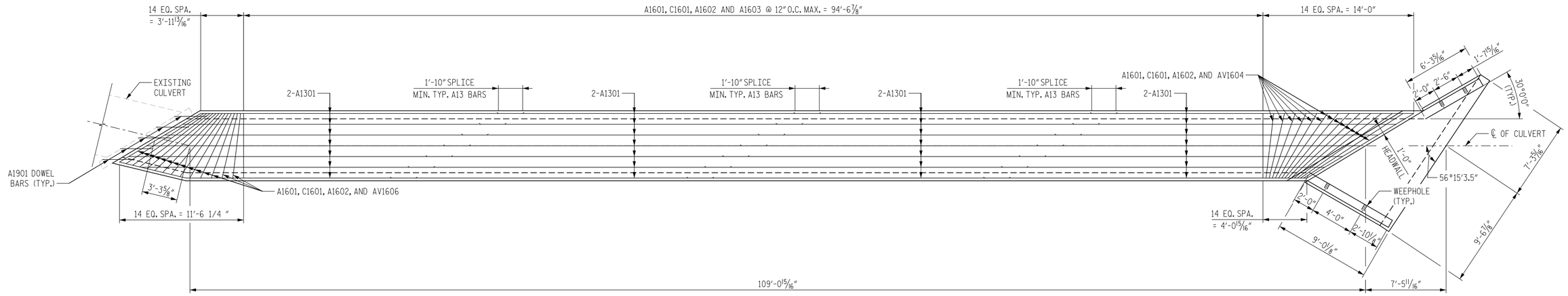
SOUTH CAROLINA No. 19527 JAMES D. FITZ MORRIS

DocuSigned by: James D Fitz Morris 32631706020548C... 1/18/2023

$USERNAME$ $DATE$ $TIME$ $FILE$

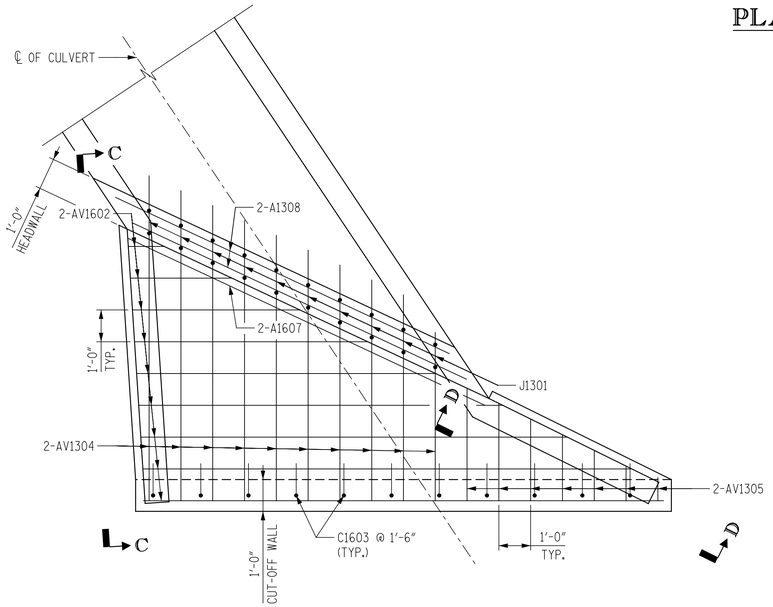
DocuSign Envelope ID: 1CDE6259-9266-4510-9F10-CC32E1F6AB26

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S7



PLAN - RIGHT EXTENSION

(SHOWING REINFORCEMENT FOR TOP AND BOTTOM SLAB)



PARTIAL PLAN

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (3)

FORT MILL US 21 5'x5' R.C. BOX CULVERT EXTENSION

STA. 41+06.45 DESIGN FILL: 16'-3" 2:1 FILL SLOPE

	BY	CHK.	DATE
REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20

COUNTY: YORK
ROUTE: US-21

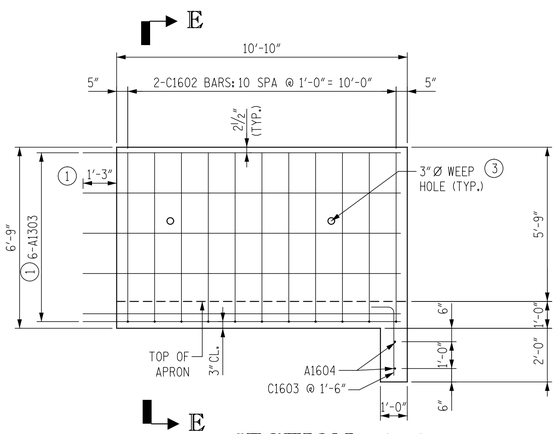
SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

Docu Signed by: James D. Fitz Morris 32D2E7DE02054BC... No. 19527 1/18/2023 JAMES D. FITZ MORRIS

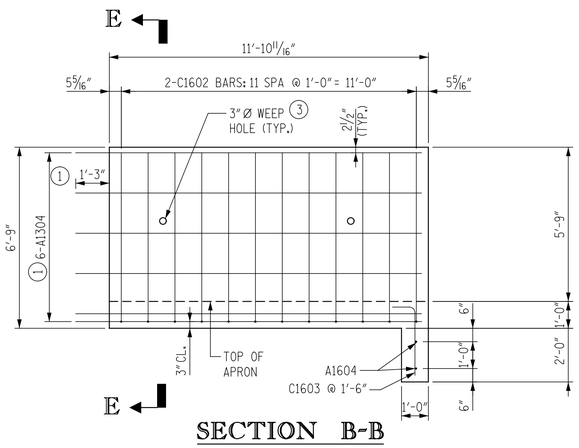
$USERNAME$ $DATE$ $TIME$ $FILE$

DocuSign Envelope ID: 0E9C6599-D713-404F-BE4B-CE9E96D71FFB

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004		S8



SECTION A-A



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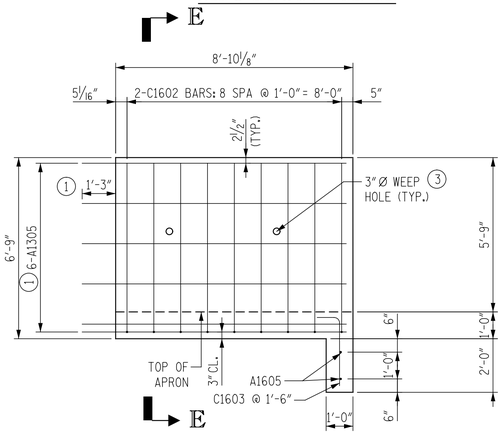
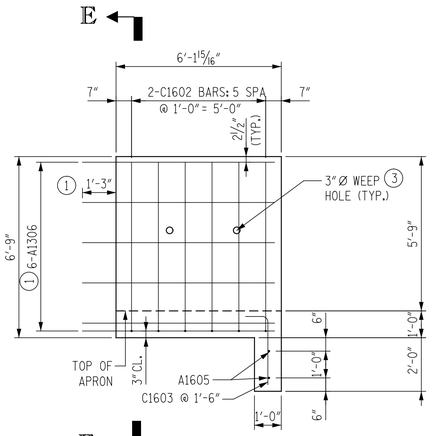
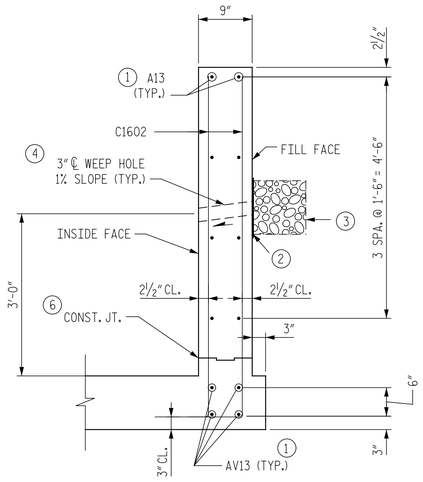


SECTION C-C

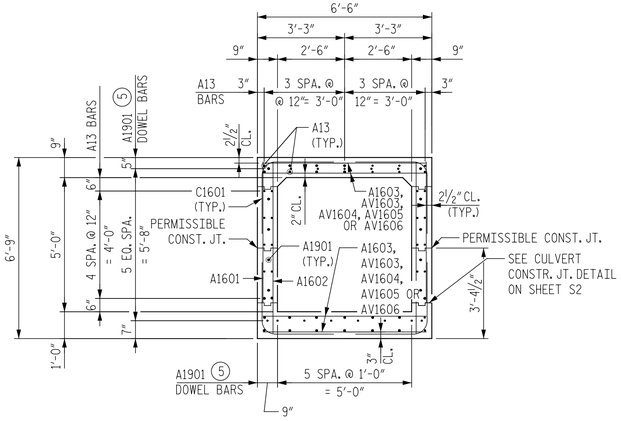


SECTION D-D

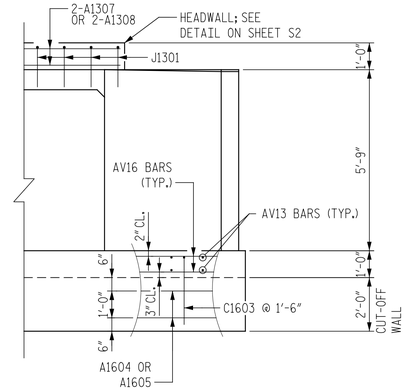


SECTION E-E

(SHOWING WING WALL REINF. ONLY)



ELEVATION THROUGH CULVERT



PARTIAL ELEVATION THROUGH END OF APRON

1. FIELD BEND AND/OR CUT TO MAINTAIN COVER AND EXTEND A MINIMUM OF 1′-3″ INTO CULVERT WALL.
2. 12″ X 12″ FILTER FABRIC SECURED TO FACE OF WALL.
3. 1 CU. FT. #57 STONE WRAPPED IN FILTER FABRIC (TYP. EA. WEEP HOLE).
4. SEE SHEET S5 FOR SPACING OF WEEP HOLES IN CULVERT. ADJUST SPACING OF REINFORCEMENT TO PROVIDE 2″ MINIMUM CLEAR DISTANCE FROM HOLES.
5. PLACE DOWELS IN CENTER OF EXISTING CONCRETE. SEE DOWEL DETAIL ON SHEET S6 FOR ADDITIONAL INFORMATION.
6. SEE SHEET S6 FOR DETAIL.

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETIALS (4)

FORT MILL US 21 5′x5′ R.C. BOX CULVERT EXTENSION

STA. 41+06.45 DESIGN FILL: 16′-3″ 2:1 FILL SLOPE

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	5-20
DES.	CNB	JDF	5-20
	BY	CHK.	DATE

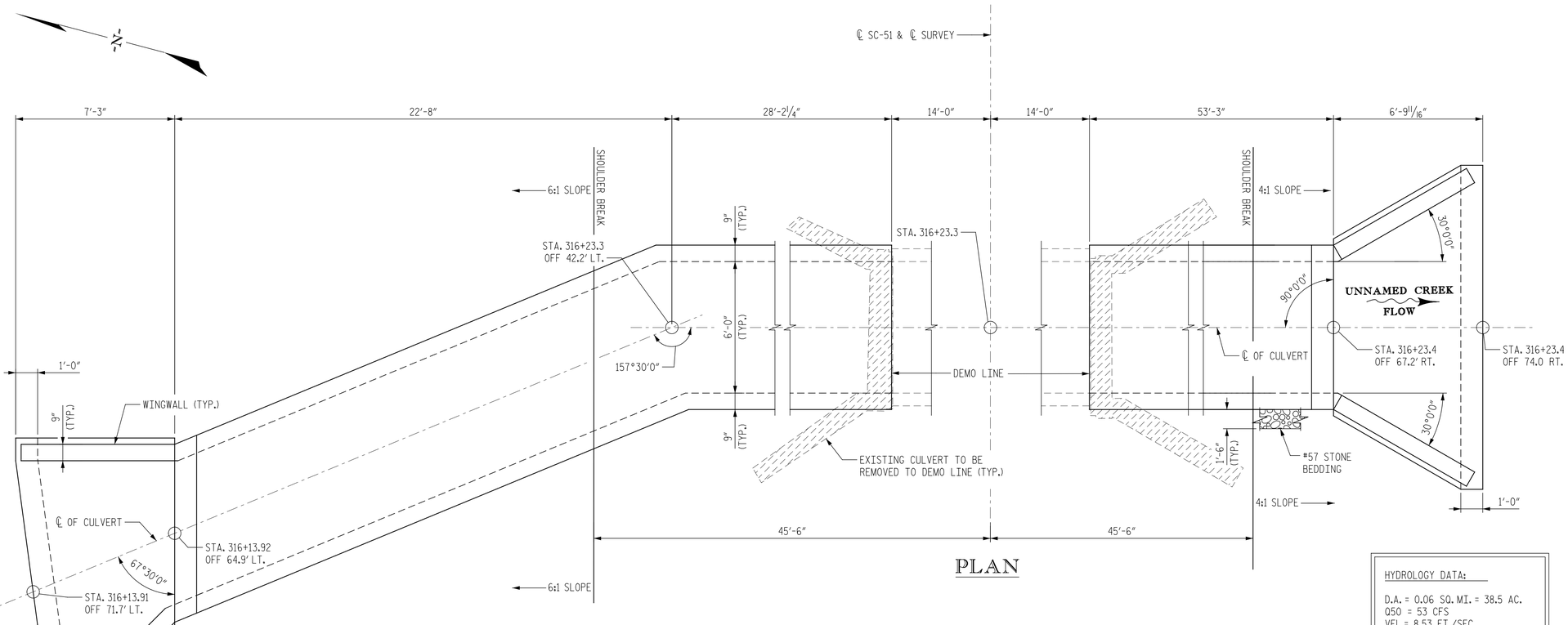
COUNTY: YORK
ROUTE: US-21

KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

DocuSigned by: James D. Fitz Morris 3262370E0E0204BC...
SOUTH CAROLINA No. 19527 JAMES D. FITZ MORRIS
1/19/2023

$USERNAME$ $DATE$ $TIME$ $FILE$

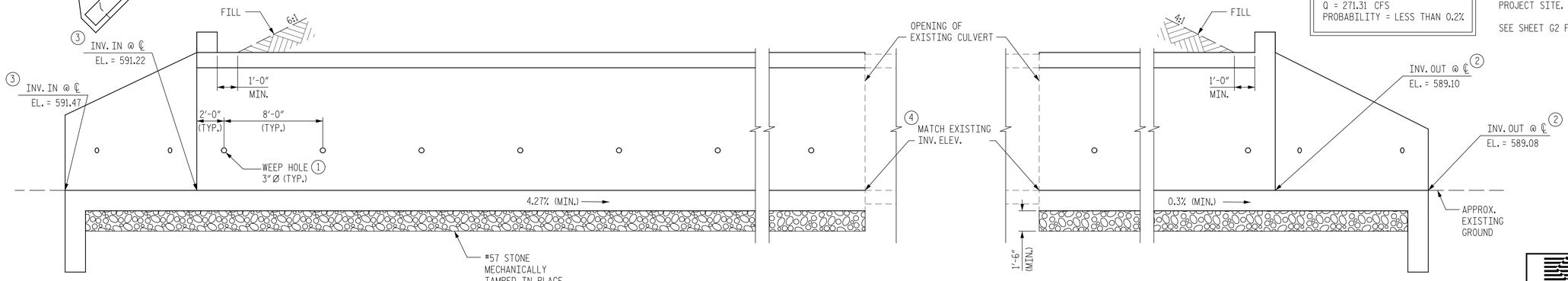
PROJECT ID	SHEET NO.
P0042332	S9



PLAN

HYDROLOGY DATA:

D.A. = 0.06 SQ. MI. = 38.5 AC.
Q50 = 53 CFS
VEL.= 8.53 FT./SEC.
50 YR HW EL. 595.22 FT.
Q100 = 59 CFS
VEL.= 8.99 FT./SEC.
100 YR HW EL. 595.37 FT.
INCLUDING 4.2 FT. HEADWATER
OVERTOPPING FLOOD:
Q = 271.31 CFS
PROBABILITY = LESS THAN 0.2%



ELEVATION OF CULVERT EXTENSION

(LOOKING IN DIRECTION OF STATIONING)

NOTE:
RIPRAP NOT SHOWN FOR CLARITY.
SEE GENERAL NOTES THIS SHEET
FOR ADDITIONAL INFORMATION.

NOTES:

1. SEE SHEET S12 FOR ADDITIONAL WEEP HOLE DETAILS.
2. CONTRACTOR SHALL ENSURE THAT THE SHOWN ELEVATIONS ALLOW FOR THE MINIMUM SLOPE OF 0.3%
3. CONTRACTOR SHALL ENSURE THAT THE SHOWN ELEVATIONS ALLOW FOR THE MINIMUM SLOPE OF 4.27%
4. CONTRACTOR SHALL CLEAN OUT THE EXISTING SEDIMENT AND MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION.

GENERAL NOTES

REFERENCED SPECIFICATIONS:
AASHTO 2012 LRFD BRIDGE DESIGN SPECIFICATIONS 6TH ED., WITH INTERIM REVISIONS THROUGH 2013.

LIVE LOAD: AASHTO HL-93.

DESIGN FILL HEIGHT = 2'-10"

CONTRACTOR SHALL REMOVE PORTIONS OF THE EXISTING CULVERT THAT INTERFERE WITH THE CONSTRUCTION OF THE NEW STRUCTURE AND CONSTRUCT NEW STRUCTURE IN ACCORDANCE WITH THESE PLANS.

ALL DIMENSIONS ARE SUBJECT TO EXISTING FIELD CONDITIONS AND SHALL BE VERIFIED BY THE CONTRACTOR.

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2007 EDITION.

CONCRETE SHALL BE CLASS 4000 WITH A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

REINFORCING STEEL SHALL BE GRADE 60 - AASHTO M31 TYPE W.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾".

CONTRACTOR SHALL CONSTRUCT ¾" MINIMUM FILLETS AT ALL JUNCTIONS OF SLAB AND WALL.

REINFORCING STEEL MAY BE FIELD BENT OR FIELD CUT TO MAINTAIN PROPER CLEARANCES AS SHOWN ON THE PLANS.

BACKFILL OVER AND AROUND STRUCTURES SHALL BE IN ACCORDANCE WITH SUBSECTION 205.4.2 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE WELL GRADED AND GRANULAR.

EXCAVATION REQUIRED FOR CULVERT CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 204 OF THE STANDARD SPECIFICATIONS.

CONSTRUCT WEEP HOLES AND FRENCH DRAINS IN ACCORDANCE WITH SUBSECTION 702.4.19 OF THE STANDARD SPECIFICATIONS.

SEE ROADWAY PLANS FOR CUT/FILL, RIPRAP, AND GEOTEXTILE FABRIC SPECIFICATIONS AND QUANTITIES.

ADDITIONAL RIPRAP AND GEOTEXTILE FABRIC SHALL BE PLACED IN ACCORDANCE WITH SCDOT STANDARD DRAWING NO. 722-305-00 AND 804-205-00.

THE STRUCTURE OF THE EXISTING CULVERT INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING CULVERT SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

SEE SHEET G2 FOR CULVERT FOUNDATION NOTES

SOUTH CAROLINA
KCI TECHNOLOGIES INC.
CONSULTING ENGINEERS
No. C00651
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 25482
CHRISTOPHER J. MEDLIN

Docusigned by:
1/3/2023
BAF5EE71A33B4F8...

REV.			
REV.			
REV.			
REVIEWED	JCM		
QUAN.			
DR.	NBV	DJS	5-19
DES.	NBV	DJS	5-19
	BY	CHK.	DATE

KCI TECHNOLOGIES
ENGINEERS|PLANNERS|SCIENTISTS|CONSTRUCTION MANAGERS

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (1)

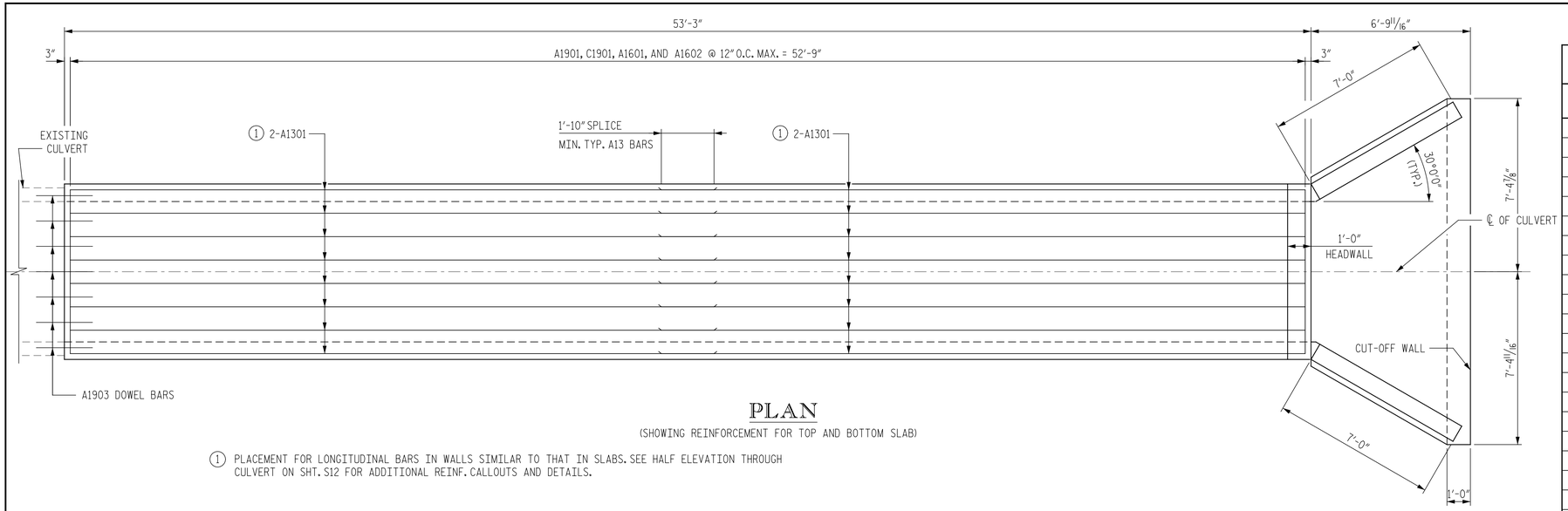
FORT MILL SC-51 6'x6' R.C. BOX CULVERT EXTENSION

STA. 316+23.3 DESIGN FILL: 2'-10" 4:1 & 6:1 FILL SLOPE

COUNTY	ROUTE
YORK	SC-51

$FILES
$TIMES
$USERNAME$ $DATE$

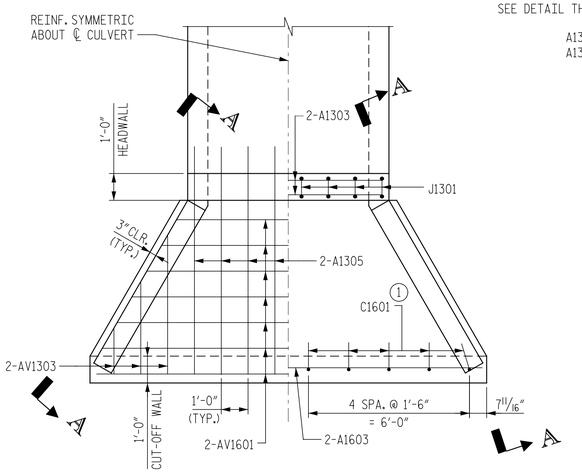
PROJECT ID	SHEET NO.
P0042332	S10



PLAN

(SHOWING REINFORCEMENT FOR TOP AND BOTTOM SLAB)

(1) PLACEMENT FOR LONGITUDINAL BARS IN WALLS SIMILAR TO THAT IN SLABS. SEE HALF ELEVATION THROUGH CULVERT ON SHT. S12 FOR ADDITIONAL REINF. CALLOUTS AND DETAILS.

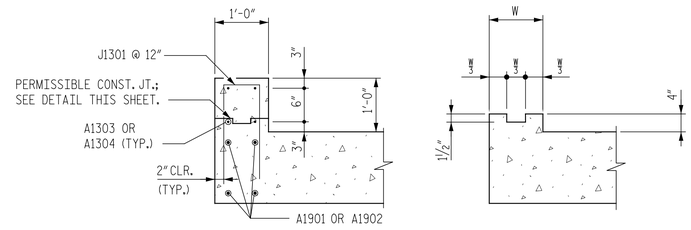


PARTIAL PLAN

(SHOWING APRON, CUT-OFF WALL AND HEADWALL REINFORCING FOR OUTLET)

SEE SHEET S12 FOR SECTION A-A

(1) ROTATE BARS IN CORNER OF APRON AND BARREL AS NEED TO MAINTAIN PROPER CLEARANCE AS SHOWN ON THE PLAN.

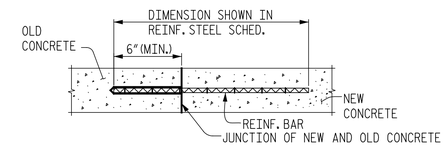


HEADWALL DETAIL

(SLAB REINF. NOT SHOWN)

CONST. JT. DETAIL

(REINF. NOT SHOWN)



ADHESIVELY BONDED DOWEL DETAIL

CLEAN CONTACT SURFACE OF OLD CONCRETE. ENSURE THAT THE SURFACE IS FREE OF LAITANCE AND ROUGHEN THE SURFACE TO AN AMPLITUDE OF 1/4".

PROVIDE AND INSTALL ANCHORAGES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION FOR ADHESIVELY BONDED ANCHORS AND DOWELS. USE AN ADHESIVE BONDING SYSTEM THAT HAS A MINIMUM BOND STRENGTH OF 1.5 KSI. FIELD TESTING OF THE ANCHORAGES IS NOT REQUIRED.

INCLUDE ALL COSTS OF ADHESIVELY BONDED DOWELS IN THE CONTRACT UNIT PRICE BID FOR REINFORCING STEEL. INCLUDE ALL COSTS OF CLEANING AND ROUGHENING THE EXISTING CONCRETE SURFACE IN THE CONTRACT UNIT PRICE BID FOR CLASS 4000 CONCRETE.

REINFORCING SCHEDULE

MARK	NO.	a	b	c	d	e	LENGTH
A1301	112	27'-6"	-	-	-	-	27'-6"
A1303	4	7'-0"	-	-	-	-	7'-0"
A1304	4	7'-7"	-	-	-	-	7'-7"
A1305	16	8'-6"	-	-	-	-	8'-6"
A1306	16	11'-4"	-	-	-	-	11'-4"
A1307	40	8'-0"	-	-	-	-	8'-0"
A1308	12	28'-5"	-	-	-	-	28'-5"
A1309	12	27'-0"	-	-	-	-	27'-0"
A1310	8	8'-4"	-	-	-	-	8'-4"
A1311	12	23'-4"	-	-	-	-	23'-4"
A1312	12	24'-10"	-	-	-	-	24'-10"
A1313	8	3'-10 1/2"	0'-0"	0'-0"	0'-0"	-	3'-10 1/2"
AV1301	32 (2)	27'-8 1/2"	27'-0"	28'-5"	0'-2 1/2"	-	27'-8 1/2"
AV1302	32 (3)	24'-1 1/2"	23'-4 1/4"	24'-10 1/2"	0'-2 1/2"	-	24'-1 1/2"
AV1303	12 (4)	3'-5 1/4"	1'-8 1/2"	5'-2"	0'-10 1/2"	-	3'-5 1/4"
AV1304	4 (5)	5'-10 3/4"	3'-10 1/2"	7'-10 3/4"	4'-0 1/4"	-	5'-10 3/4"
AV1305	4 (6)	5'-2 3/4"	3'-7 1/2"	6'-10"	3'-2 3/4"	-	5'-2 3/4"
A1601	220	6'-2 1/2"	-	-	-	-	6'-2 1/2"
A1602	220	7'-4"	-	-	-	-	7'-4"
A1603	2	14'-6"	-	-	-	-	14'-6"
A1604	2	16'-10"	-	-	-	-	16'-10"
AV1601	14 (7)	11'-3 3/4"	8'-4"	14'-3 1/4"	1'-0"	-	11'-3 3/4"
AV1602	14 (8)	15'-10"	12'-6"	19'-2"	1'-1 1/4"	-	15'-10"
A1901	436	7'-0"	-	-	-	-	7'-0"
A1902	4	7'-6"	-	-	-	-	7'-6"
A1903	44	3'-0"	-	-	-	-	3'-0"
AV1901	8 (9)	3'-7"	2'-4 1/2"	4'-9 1/2"	2'-5"	-	3'-7"
C1601	19	2'-6"	1'-0"	-	-	-	3'-6"
CV1601	64 (10)	6'-1 3/4"	5'-1 3/4"	7'-1 1/2"	0'-3 1/2"	2'-1"	8'-2 3/4"
C1901	440	2'-8"	2'-8"	-	-	-	5'-4"
J1301	16	0'-8"	1'-3"	-	-	-	3'-2"
F1301	32	2'-0"	2'-0"	-	-	-	4'-0"
T1301	4	5'-1"	1'-10"	-	-	-	17'-9 1/2"

(2) 4 SETS OF EACH SERIES. 8 BARS PER SERIES

(3) 4 SETS OF EACH SERIES. 8 BARS PER SERIES

(4) 2 SETS OF EACH SERIES. 3 BARS PER SERIES

(5) 2 SETS OF EACH SERIES. 2 BARS PER SERIES

(6) 2 SETS OF EACH SERIES. 2 BARS PER SERIES

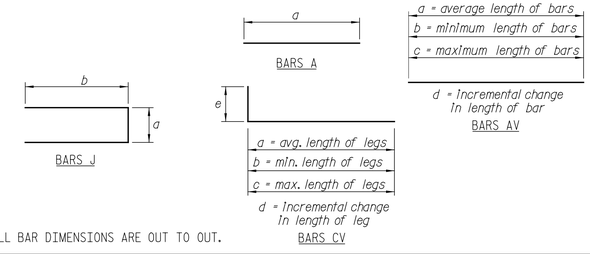
(7) 2 SETS OF EACH SERIES. 7 BARS PER SERIES

(8) 2 SETS OF EACH SERIES. 7 BARS PER SERIES

(9) 4 SETS OF EACH SERIES. 2 BARS PER SERIES

(10) 8 SETS OF EACH SERIES. 8 BARS PER SERIES

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

ESTIMATED QUANTITIES

ITEM	UNIT	TOTAL
CONC./STRUC. - CLASS 4000 (CULVERT)	CY	100
REINF. STEEL FOR STRUCT. (RDWAY)	LBS	17332
No. 57 STONE FOR BACKFILL	TON	114
CULVERT EXTENSION PREPARATION	EA	2
STRUCTURE EXCAVATION FOR CULVERT	CY	76
UNCLASSIFIED EXCAVATION	CY	63

*PRICING FOR FILTER FABRIC SHALL BE INCLUDED WITH NO. 57 STONE

SOUTH CAROLINA — KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER No. 25482 — JAMES C. WHITE — NORTH CAROLINA

DocuSigned by: James C. White 1/3/2023 BAE5EEE7A33B4E8...

KCI TECHNOLOGIES — ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (2)

FORT MILL SC-51 6'x6' R.C. BOX CULVERT EXTENSION

STA. 316+23.3 DESIGN FILL: 2'-10" 4:1 & 6:1 FILL SLOPE

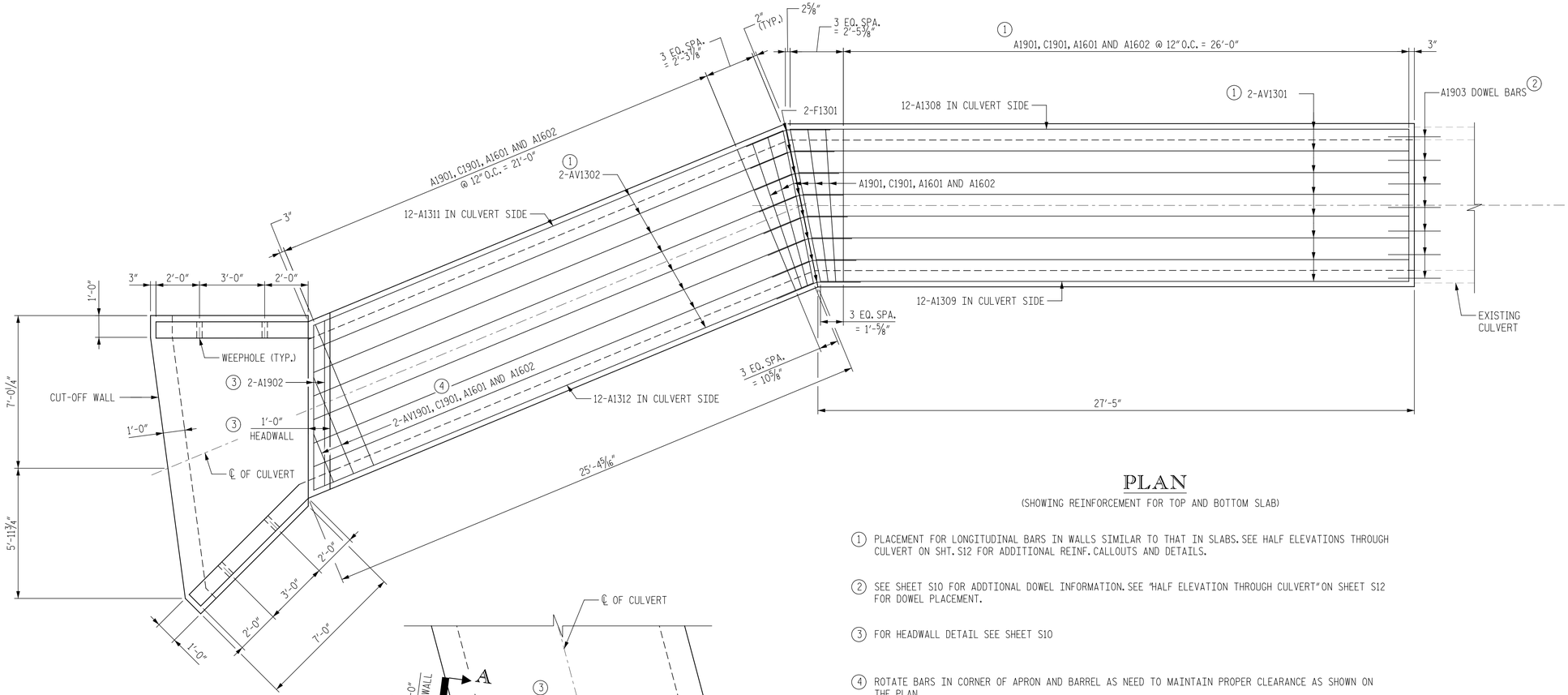
REV.			
REV.			
REV.			
REVIEWED	JCM		
QUAN.			
DR.	NBV	DJS	5-19
DBS.	NBV	DJS	5-19
	BY	CHK.	DATE

COUNTY: YORK

ROUTE: SC-51

$USERNAME$ $DATE$ $TIME$ $FILE$

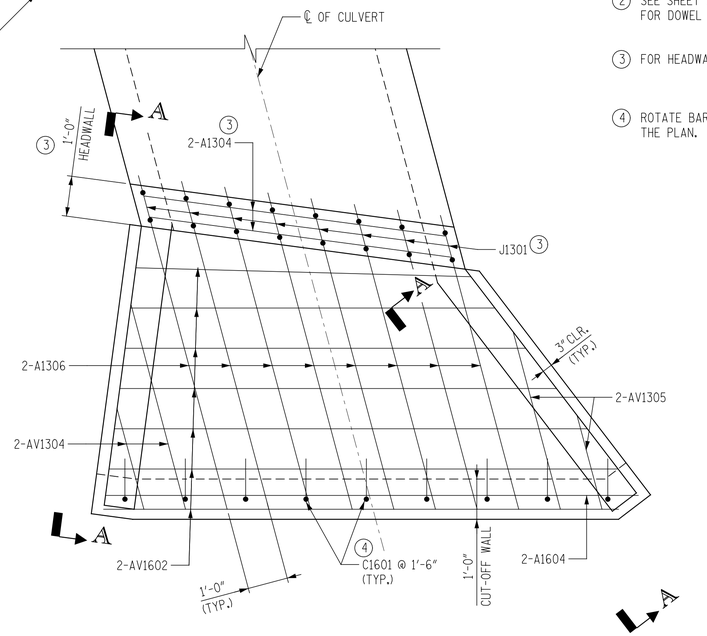
PROJECT ID	SHEET NO.
P0042332	S11



PLAN

(SHOWING REINFORCEMENT FOR TOP AND BOTTOM SLAB)

1. PLACEMENT FOR LONGITUDINAL BARS IN WALLS SIMILAR TO THAT IN SLABS. SEE HALF ELEVATIONS THROUGH CULVERT ON SHT. S12 FOR ADDITIONAL REINF. CALLOUTS AND DETAILS.
2. SEE SHEET S10 FOR ADDTIONAL DOWEL INFORMATION. SEE "HALF ELEVATION THROUGH CULVERT" ON SHEET S12 FOR DOWEL PLACEMENT.
3. FOR HEADWALL DETAIL SEE SHEET S10
4. ROTATE BARS IN CORNER OF APRON AND BARREL AS NEED TO MAINTAIN PROPER CLEARANCE AS SHOWN ON THE PLAN.



PARTIAL PLAN

(SHOWING APRON, CUT-OFF WALL AND HEADWALL REINFORCING FOR INLET)

SOUTH CAROLINA KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 25482 JAMES C. MEDLIN

DocuSigned by: James C. Medlin 1/3/2023 BAF5EE71A33B4F8...

REV.			
REV.			
REV.			
REVIEWED	JCM		
QUAN.			
DR.	NBV	DJS	5-19
DES.	NBV	DJS	5-19
	BY	CHK.	DATE

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (3)

FORT MILL SC-51 6'x6' R.C. BOX CULVERT EXTENSION

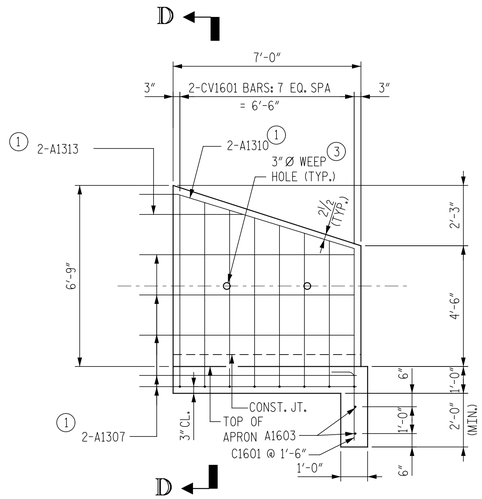
STA. 316+23.3 DESIGN FILL: 2'-10" 4:1 & 6:1 FILL SLOPE

COUNTY: YORK

ROUTE: SC-51

$USERNAME$ $DATE$ $TIME$ $FILE$

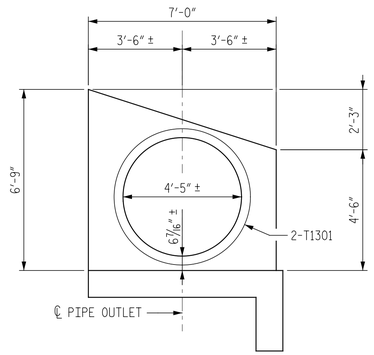
PROJECT ID	SHEET NO.
P0042332	S12



SECTION A-A

(SHOWING WING WALL REINF.)

NOTE: INSIDE FACE SHOWN, OUTSIDE FACE SIMILIAR.



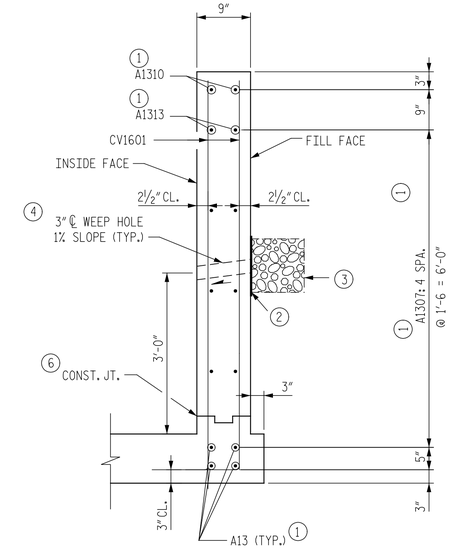
PIPE OUTLET

NOTES:

MAIN WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SECTION A-A THIS SHEET FOR ADDITIONAL INFORMATION.

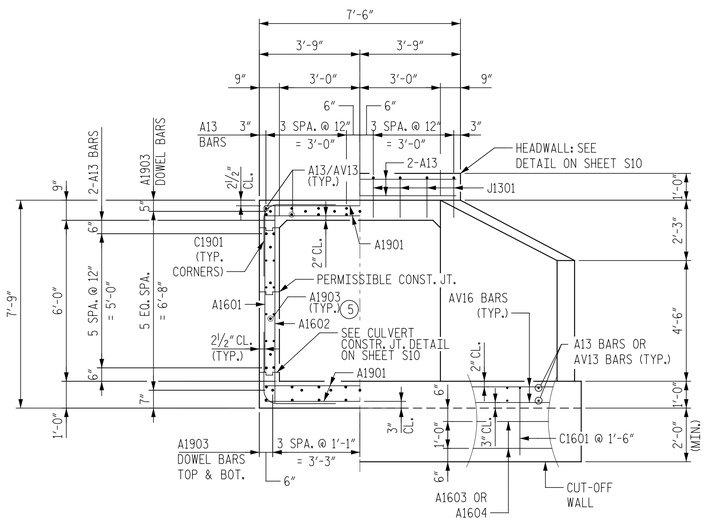
INSIDE FACE SHOWN, OUTSIDE FACE SIMILIAR.

OUTLET HOLE LOCATION MAY BE SLIGHTLY ADJUSTED AS NEEDED TO ACCOMIDATE PLACEMENT OF PIPE.



SECTION D-D

(SHOWING WING WALL REINF. ONLY)



HALF ELEVATION THROUGH CULVERT

HALF ELEVATION AT END OF APRON

1. FIELD BEND AND/OR CUT TO MAINTAIN COVER AND EXTEND A MINIMUM OF 1'-3" INTO CULVERT WALL. ADDITIONALLY, REBAR ON SOUTH END WINGWALLS SHALL BE FIELD CUT AS NEEDED TO ALLOW FOR INSTALLATION OF DRAINPIPES.
2. 12"X 12" FILTER FABRIC SECURED TO FACE OF WALL.
3. 1 CU. FT. #57 STONE WRAPPED IN FILTER FABRIC (TYP. EA. WEEP HOLE).
4. SEE SHEET S9 FOR SPACING OF WEEP HOLES IN CULVERT. ADJUST SPACING OF REINFORCEMENT TO PROVIDE 2" MINIMUM CLEAR DISTANCE FROM HOLES.
5. PLACE DOWELS IN CENTER OF EXISTING CONCRETE. SEE DOWEL DETAIL ON SHEET S10 FOR ADDITIONAL INFORMATION.
6. SEE SHEET S10 FOR DETAIL.

$USERNAME$ $DATE$ $TIME$ $FILE$

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. COO651

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 25482 — JAMES C. MELIN

DocuSigned by: James C. Melin — BAF5EE71A33B4F8... — 1/3/2023

KCI TECHNOLOGIES — ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

REV.			
REV.			
REV.			
REVIEWED	JCM		
QUAN.			
DR.	NBV	DJS	5-19
DBS.	NBV	DJS	5-19
	BY	CHK.	DATE

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETIALS (4)

FORT MILL SC-51 6'x6' R.C. BOX CULVERT EXTENSION

STA. 316+23.3 DESIGN FILL: 2'-10" 4:1 & 6:1 FILL SLOPE

COUNTY	ROUTE
YORK	SC-51

GENERAL DATA AND ESTIMATED QUANTITIES FOR SINGLE BOX CULVERTS UNDER 10 FOOT FILLS OR LESS

BRIDGE PLANS ID	SHEET NO.	FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
P0042332	S13	3	S.C.	YORK	46.522	US.21	35	125

CLEAR SPAN	CLEAR HEIGHT	AREA OF OPENING SQ.FT.	A-BARS SIZE NO.	A-BARS NO. REQUIRED	A-BARS LENGTH	B-BARS SIZE NO.	B-BARS NO. REQUIRED	B-BARS LENGTH	C-BARS SIZE NO.	C-BARS NO. REQUIRED	C-BARS HOR. LEG Y1	C-BARS VERTICAL LEG Y2	C-BARS LENGTH Y1+Y2-3"	D# 4 NO. REQUIRED	D# 4 LENGTH	E# 4 NO. REQUIRED	E# 4 LENGTH	F-BARS # 4 @ 12" NO. REQUIRED	F-BARS # 4 @ 12" LENGTH	F-BARS # 4 @ 12" LENGTH VARIES BY 1'-2"
3	3	9	4 (#6+1)2	3'-9"		4 #6x2	3'-9"		4 #6x4	1'-6"	1'-6"	2'-9"		8	L-8"	8	L+2N-4	4	$F_1 = 7'-2"$	1 ea. F_2-4 7'-10" to 5'-6"
4	4	16	4 (#6+1)2	4'-10"		4 #6x2	4'-10"		4 #6x4	1'-6"	1'-9"	3'-0"		9	L-8"	9	L+2N-4	4	$F_1 = 9'-10"$	1 ea. F_2-5 10'-3" to 6'-9"
	6	24	4 "	4'-10"		4 "	4'-10"		4 "	2'-0"	2'-6"	4'-3"		9	L-8"	9	"	4	$F_1 = 12'-2"$	1 ea. F_2-8 12'-10" to 5'-10"
5	5	25	5 "	5'-10"		4 "	5'-10"		4 "	2'-0"	2'-6"	4'-3"		10	"	10	"	4	$F_1 = 12'-2"$	1 ea. F_2-6 12'-6" to 7'-10"
	7	35	5 "	5'-10"		5 "	5'-10"		4 "	2'-0"	2'-9"	4'-6"		10	"	10	"	4	$F_1 = 14'-4"$	1 ea. F_2-9 15'-0" to 8'-10"
	4	24	6 "	6'-10"		4 "	6'-10"		4 "	2'-0"	1'-9"	3'-6"		11	"	11	"	4	$F_1 = 11'-10"$	1 ea. F_2-5 12'-4" to 8'-10"
6	6	36	5 "	6'-10"		4 "	6'-10"		4 "	2'-0"	2'-6"	4'-3"		11	"	11	"	4	$F_1 = 14'-4"$	1 ea. F_2-8 15'-0" to 8'-0"
	4	24	6 "	7'-0"		4 "	7'-0"		4 "	2'-0"	3'-3"	5'-0"		11	"	11	"	4	$F_1 = 16'-8"$	1 ea. F_2-10 17'-6" to 8'-2"
	5	35	6 "	7'-10"		5 "	7'-10"		4 "	2'-3"	2'-3"	4'-3"		12	"	12	"	4	$F_1 = 14'-2"$	1 ea. F_2-7 14'-10" to 9'-0"
7	7	40	6 "	8'-0"		5 "	8'-0"		4 "	2'-3"	3'-0"	5'-0"		12	"	12	"	4	$F_1 = 16'-10"$	1 ea. F_2-9 17'-8" to 9'-6"
	9	63	5 "	8'-0"		5 "	8'-0"		4 "	2'-3"	3'-6"	5'-6"		12	"	12	"	4	$F_1 = 19'-4"$	1 ea. F_2-11 20'-0" to 9'-6"

CLEAR SPAN	CLEAR HEIGHT	G_1-BARS SIZE NO.	G_1-BARS NO. REQUIRED	G_1-BARS HOR. DIST. X1	G_1-BARS VERTICAL LEG X2	G_1-BARS LENGTH X1+2X2-5"	G_2-BARS SIZE NO.	G_2-BARS NO. REQUIRED	G_2-BARS LENGTH	G_2-BARS SPACING	H-BARS # 4 @ 12" STAGGERED NO. REQUIRED	H-BARS # 4 @ 12" STAGGERED LENGTH VARIES BY 4'-6"	H-BARS # 4 @ 12" STAGGERED NO. REQUIRED	H-BARS # 4 @ 12" STAGGERED LENGTH
3	3	4 (#6+1)2	3'-9"	3'-9"	2'-0"	9'-1"	4 (#6+1)2	3'-9"	18'	2	H	L_H (3'-8")	4	$H_2 = L_H$ (7'-10")
4	4	4 (#6+1)2	4'-10"	4'-10"	3'-5"	11'-3"	4 (#6+1)2	4'-10"	15'	2 ea.	H_2	L_H (4'-2") to L_H (8'-8")	4	$H_3 = L_H$ (10'-8")
	6	4	"	4'-10"	4'-5"	13'-3"	4	6'-10"	15'	2 ea.	H_3	L_H (7'-0") to L_H (13'-0")	6	$H_4 = L_H$ (15'-10)
5	5	4	"	5'-10"	3'-11"	13'-3"	4	"	15'	2 ea.	H_3	L_H (3'-10") to L_H (8'-4")	6	$H_3 = L_H$ (13'-2")
	7	4	"	5'-10"	4'-11"	15'-3"	4	"	15'	2 ea.	H_3	L_H (4'-0") to L_H (13'-0")	8	$H_4 = L_H$ (18'-2")
	4	4	"	6'-10"	3'-6"	13'-5"	4	"	16'	2 ea.	H_2	L_H (4'-6") to L_H (8'-0")	4	$H_3 = L_H$ (10'-10")
6	6	4	"	6'-10"	4'-6"	15'-5"	4	"	12½'	2 ea.	H_3	L_H (4'-6") to L_H (13'-6")	6	$H_4 = L_H$ (16'-2")
	4	4	"	7'-0"	3'-9"	13'-7"	4	"	16'	2 ea.	H_2	L_H (4'-6") to L_H (8'-0")	4	$H_3 = L_H$ (10'-10")
	5	4	"	7'-0"	5'-6"	17'-7"	4	"	16'	2 ea.	H_4	L_H (4'-6") to L_H (18'-0")	8	$H_5 = L_H$ (20'-10)
7	7	4	"	7'-10"	4'-0"	15'-5"	4	"	16'	2 ea.	H_2	L_H (4'-6") to L_H (9'-0")	4	$H_3 = L_H$ (13'-6")
	9	4	"	8'-0"	5'-0"	17'-7"	4	"	13½'	2 ea.	H_3	L_H (4'-10") to L_H (13'-10")	8	$H_4 = L_H$ (18'-10")
	5	4	"	8'-0"	5'-0"	17'-7"	4	"	13½'	2 ea.	H_3	L_H (4'-6") to L_H (13'-6")	8	$H_4 = L_H$ (18'-10")
	7	4	"	8'-0"	6'-0"	19'-7"	4	"	13½'	2 ea.	H_4	L_H (4'-6") to L_H (18'-6")	8	$H_5 = L_H$ (23'-10")
	9	4	"	8'-0"	6'-0"	19'-7"	4	"	16'	2 ea.	H_5	L_H (4'-6") to L_H (22'-6")	8	$H_6 = L_H$ (23'-10")

CLEAR SPAN	CLEAR HEIGHT	I-BARS (HORIZONTAL LEG Y_1 EACH CULVERT IS SAME LENGTH) SIZE NO.	NO. REQUIRED	HOR. LEG Y_1	VERTICAL LEG Y_2	LENGTH $Y_1+Y_2-3"$	SPACING	J-BARS SIZE NO.	NO. REQUIRED	LENGTH	P-BARS @ 12" SIZE NO.	NO. REQUIRED	LENGTH P1	LENGTH P2	LENGTH P3
3	3	4	8	1'-6"	2'-1"	$I_1 = 3'-4"$	14	4	4	$I_2 = 4'-5"$	5	8	5'-6"	4	8	2'-10"	—	—
	4	4	8	1'-6"	2'-8"	$I_1 = 3'-11"$	18"	4	8	$3'-11"$	5	8	8'-0"	4	8ea	4'-2"	—	—
4	4	4	8	1'-6"	2'-8"	$I_1 = 3'-11"$	18"	4	8	$3'-11"$	5	8	8'-0"	4	8ea	4'-2"	—	—
	6	4	8	1'-6"	3'-7"	$I_1 = 4'-10"$	15"	4	8	4'-7"	$I_2 = 5'-10"$	15"	4	4ea	I_3-6 = 5'-8" to 6'-11" Vary 5"	12"	5	8	10'-6"	4	8ea	6'-4"	4'-4"	—
5	5	4	8	1'-6"	3'-2"	$I_1 = 4'-5"$	18"	4	8	4'-4"	$I_2 = 5'-7"$	14"	4	4ea	I_3-4 = 5'-5" to 5'-10" Vary 5"	14"	5	8	10'-6"	4	8ea	5'-2"	3'-5"	—
	7	4	8	1'-6"	4'-1"	$I_1 = 5'-4"$	18"	4	8	5'-3"	$I_2 = 6'-6"$	15"	4	4ea	I_3-7 = 6'-2" to 7'-10" Vary 5"	I_2-7 = 7'-5" to 9'-1" Vary 5"	12"	5	8	12'-0"	4	8ea	7'-3"	5'-7"	—
	4	4	4	1'-6"	2'-9"	$I_1 = 4'-0"$	15"	4	4	3'-4"	$I_2 = 4'-7"$	15"	4	4ea	I_3-5 = 5'-10" to 4'-10" Vary 6"	I_3-5 = 5'-1" to 6'-1" Vary 6"	15"	5	8	8'-0"	4	8ea	4'-1"	2'-2"	—
6	6	4	8	1'-6"	3'-7"	$I_1 = 4'-10"$	18"	4	8	4'-9"	$I_2 = 6'-0"$	18"	4	4ea	I_3-5 = 6'-1" to 6'-11" Vary 6"	I_3-5 = 7'-4" to 8'-2" Vary 5"	12"	5	8	11'-0"	4	8ea	6'-5"	4'-10"	—
	8	4	8	2'-6"	4'-7"	$I_1 = 6'-10"$	18"	4	8	5'-9"	$I_2 = 8'-0"$	15"	4	4ea	I_3-10 = 6'-8" to 9'-0" Vary 4"	I_3-10 = 8'-11" to 11'-3" Vary 4"	9½"	5	8	13'-6"	4	8ea	8'-6"	6'-9"	5'-0"
	5	4	8	1'-6"	3'-3"	$I_1 = 4'-6"$	18"	4	8	4'-5"	$I_2 = 5'-8"$	14"	4	4ea	I_3-4 = 5'-5" to 5'-10" Vary 5"	I_3-4 = 6'-8" to 7'-1" Vary 5"	14"	5	8	9'-6"	4	8ea	5'-3"	3'-6"	—
7	7	4	8	1'-6"	4'-1"	$I_1 = 5'-4"$	18"	4	12	5'-4"	$I_2 = 6'-7"$	12"	4	4ea	I_3-9 = 6'-5" to 7'-11" Vary 3"	I_3-9 = 7'-8" to 9'-2" Vary 3"	7"	5	8	12'-6"	4	8ea	7'-8"	5'-11"	4'-2"
	9	4	8	2'-6"	4'-10"	$I_1 = 7'-1"$	18"	4	12	6'-1"	$I_2 = 8'-4"$	11"	4	4ea	I_3-16 = 7'-1" to 9'-9½" Vary 2½"	I_3-16 = 9'-4" to 12'-0½" Vary 2½"	6"	5	8	15'-0"	4	8ea	9'-10"	8'-1"	6'-4"

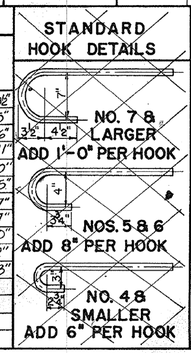
CLEAR SPAN	CLEAR HEIGHT	DIMENSIONS M_1	M_2	M_3	N_1	N_2	N_3	R	S	T_1	T_2	W1	W2
3	3	4'-1½"	3'-7"	2'-0⅜"	3'-10⅛"	7'-2⅛"	7"	4'-1"	12"	6½"	6½"	1'-9"	1'-9½"
	4	5'-6⅝"	4'-10"	2'-9⅛"	5'-1⅛"	9'-3⅛"	7"	5'-2"	10"	7"	7"	2'-2"	2'-5"
4	4	5'-6⅝"	4'-10"	2'-9⅛"	5'-1⅛"	9'-3⅛"	7"	5'-2"	10"	7"	7"	2'-2"	2'-5"
	6	8'-1"	7'-0"	4'-0⅜"	7'-3⅛"	12'-2⅛"	7"	5'-2"	10"	7"	7"	3'-1"	3'-6"
5	5	6'-8⅛"	5'-10"	3'-4⅜"	6'-1⅛"	11'-0⅛"	7"	6'-2"	10"	7"	7"	2'-8"	2'-11"
	7	9'-2⅞"	8'-0"	4'-7⅜"	8'-3⅛"	14'-4⅞"	7"	6'-2"	10"	7"	7"	3'-7"	4'-0"
	4	5'-6⅝"	4'-10"	2'-9⅜"	5'-1⅛"	11'-3⅛"	7"	7'-2"	11"	8"	7"	2'-3"	2'-5"
6	6	8'-3⅝"	7'-2"	4'-1⅜"	7'-5⅛"	14'-5⅛"	7"	7'-2"	8½"	8"	7"	3'-1"	3'-7"
	8	10'-7"	9'-2"	5'-3⅛"	9'-6"	16'-9⅜"	8"	7'-4"	9"	8"	8"	4'-1"	4'-7"
	5	6'-11⅞"	6'-0"	3'-5⅝"	6'-3⅛"	14'-1"	7"	8'-2"	9"	8"	7"	2'-8"	3'-0"
7	7	9'-7⅞"	8'-4"	4'-3⅝"	8'-8"	16'-9⅛"	8"	8'-4"	9"	8"	8"	3'-6"	4'-2"
	9	12'-12"	10'-6"	6'-0⅜"	10'-10"	19'-3⅛"	8"	8'-4"	9"	8"	8"	4'-5"	5'-3"

QUANTITIES

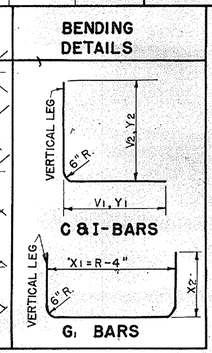
STATION	SIZE & LENGTH	LEFT OF ℄	RIGHT OF ℄	CLASS "A" CONCRETE	REINFORCING STEEL *	EXCAVATION
95+26	Sin.7'x7'x150'	80'-0"	70'-0"	132.0 C.Y.	24,430 LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
				C.Y.	LBS	C.Y.
TOTAL				132.0 C.Y.	24,430 LBS	C.Y.

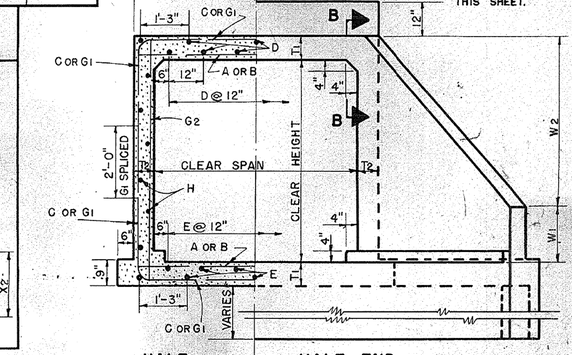
* FOR CULVERTS HAVING SLOTS OR HOLES SEE ACCOMPANYING SHEET FOR ADDITIONAL REINFORCING. EXTRA REINFORCING STEEL AROUND HOLES, SLOTS, AND PIPES TO BE ADDED TO QUANTITIES ON THIS SHEET.

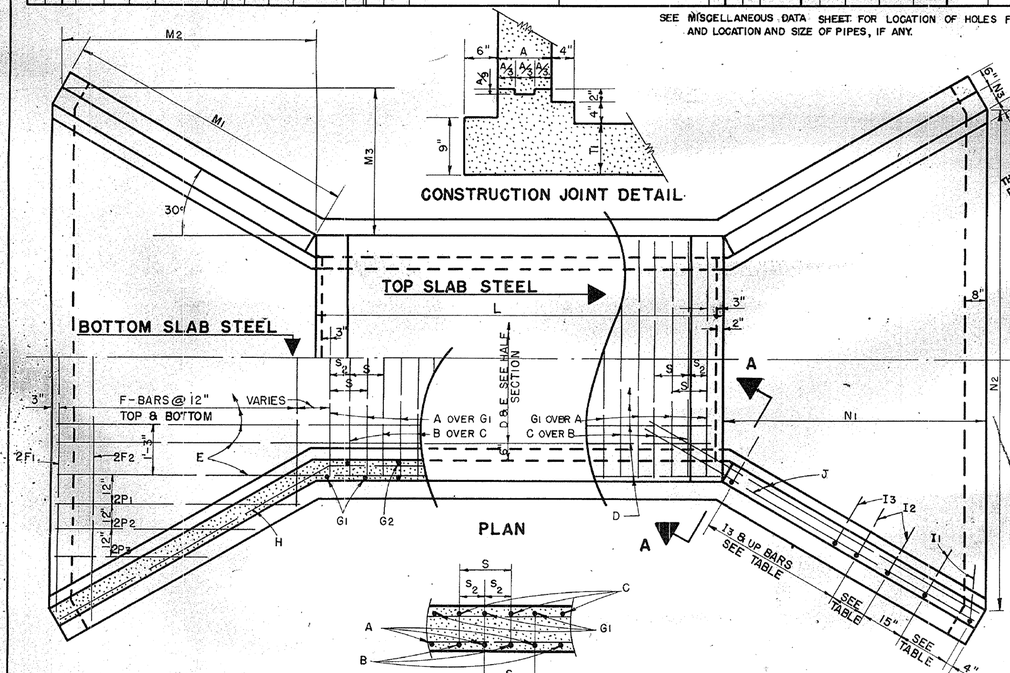
STANDARD HOOK DETAILS

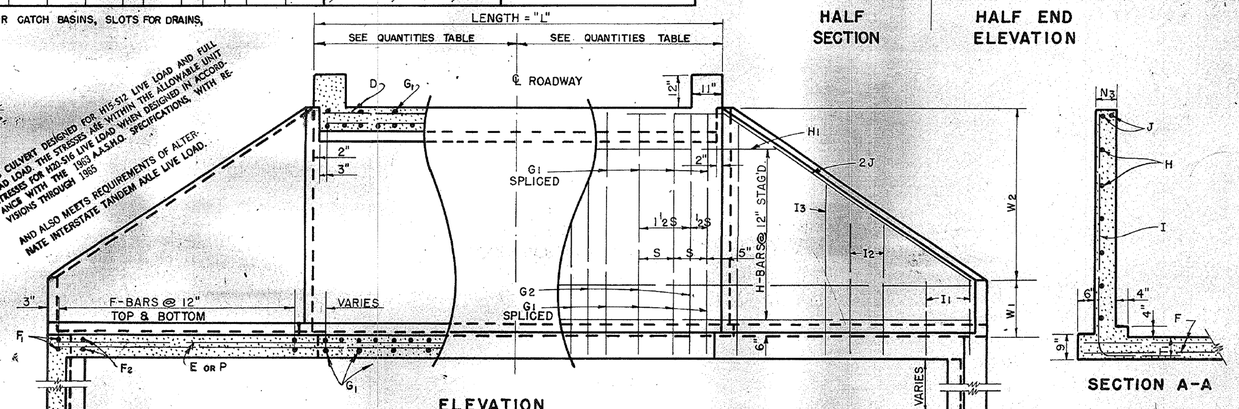


BENDING DETAILS









THIS CULVERT DESIGNED FOR H15-S12 LIVE LOAD AND FULL DEAD LOAD. THE STRESSES ARE WITHIN THE ALLOWABLE UNIT STRESSES FOR H20-S16 LIVE LOAD WHEN DESIGNED IN ACCORDANCE WITH THE 1957 A.A.S.H.O. SPECIFICATIONS, WITH REVISIONS THROUGH 1965.

AND ALSO MEETS REQUIREMENTS OF ALTERNATE INTERSTATE TANDEM AXLE LIVE LOAD.

CULVERT STANDARD NOTES:

SPECIFICATIONS:- "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" A.A.S.H.O.-1957- $f_s = 20{,}000\ ^{\#}/_{IN^2}$ $f_c = 1200\ ^{\#}/_{IN^2}$ $n = 10$, $v = 90\ ^{\#}/_{IN^2}$ $u = 300\ ^{\#}/_{IN^2}$

H-20 LOADING, 10' EARTH FILL (MAX.), AND ALSO MEETS REQUIREMENTS OF ALTERNATE INTERSTATE TANDEM AXLE LIVE LOAD.

CENTER OF MAIN REINFORCING STEEL SHALL BE 2" FROM THE SURFACE OF THE CONCRETE.

ALL CONCRETE SHALL BE GLASS "A" CONCRETE.

CHAMFER ALL EXPOSED EDGES ¾".

"L" DENOTES CULVERT LENGTH AND "S" DENOTES REINFORCING SPACING FOR A, B, C, AND G1.

WING SLOPES ARE 2:1 NORMAL TO ROADWAY ($M_2 = 2W_2$).

IN FIGURING NUMBER OF A, B, C, G1 AND G2 BARS USE BOTH "L" AND "S" IN EITHER INCHES OR FEET.

DISREGARD FRACTION OF SPACES IN FIGURING NUMBER OF A, B, C, G1 AND G2 BARS.

SPACING OF BARS IS CENTER TO CENTER.

NO BARS SHALL BE OVER 60'-0" LONG, WHERE IT IS NECESSARY TO HAVE BARS OVER THIS LENGTH TWO OR MORE BARS SHALL BE USED AND ENDS LAPPED 2'-0", NO PAYMENT TO BE MADE FOR LAPS.

PROVIDE CONSTR. JTS. WHERE NECESSARY TO LIMIT CONC. POUR TO A MAX. OF 50 FT.. REINFORCING STEEL SHALL EXTEND THRU THE CONSTR. JT.

CONSTRUCT WEEP HOLES AND FRENCH DRAINS ON CULVERTS WITH A CLEAR HEIGHT OF 6'-0" OR MORE.

METHOD USED IN FIGURING QUANTITIES:

IN FIGURING QUANTITY OF CLASS "A" CONCRETE AND REINFORCING STEEL FOR ANY LENGTH CULVERT TAKE LENGTH "L" TIMES CLASS "A" CONCRETE OR REINFORCING STEEL PER FOOT LENGTH OF BARREL PLUS QUANTITY IN COLUMN HEADED "OTHER THAN BARREL".

THE QUANTITY OF CLASS "A" CONCRETE IN THE COLUMN HEADED "OTHER THAN BARREL" IS THE QUANTITY IN THE HEADWALLS, WINGS AND APRONS LESS THE 2" CUT-BACK OF TOP SLAB ON EACH END.

THE QUANTITY OF REINFORCING STEEL IN THE COLUMN HEADED "OTHER THAN BARREL" IS THE QUANTITY IN THE WINGS AND APRONS.

THERE IS NO QUANTITY COMPUTED FOR CONCRETE CUT-OFF WALLS. DEPTH OF CUT-OFF WALLS FOR EACH CULVERT CONSTRUCTED SHALL BE DETERMINED BY THE ENGINEER ON THE JOB AND QUANTITIES ADDED TO THOSE FOR EACH INDIVIDUAL CULVERT.

IN FIGURING EXCAVATION TAKE EXCAVATION PER FOOT LENGTH PER FOOT DEPTH OF BARREL AND MULTIPLY BY $(L + 2N_1 + 4'-0")$ AND THEN BY ESTIMATED DEPTH IN FEET.

FOR INFORMATION ONLY

REV.			
REV.			
REV.	G.K.B.	W.B.B.	1-67
	150'-0"		
REV.	G.K.B.	G.M.P.	9-61
	Double F#2 Bars		
REVIEWED	G.K.B.	R.E.S.	
IN CHARGE			
QUAN.	R.J.B.	P.S.C.	3-59
TR.	G.K.B.	W.B.B.	2-59
DR.	G.K.B.	W.B.B.	2-59
DES.	R.J.B.	R.E.S.	1-59
BY	CHKD	DATE	

S.C. STATE HIGHWAY DEPARTMENT
BRIDGE DIVISION
COLUMBIA S.C.

CONCRETE CULVERT STANDARD REINFORCED BOX TYPE SINGLE 3'X3' THRU 7'X9' UP TO 10' FILL

FILE NO.	COUNTY	ROUTE NO.	DATE
46.522	YORK	U.S.21	1-67

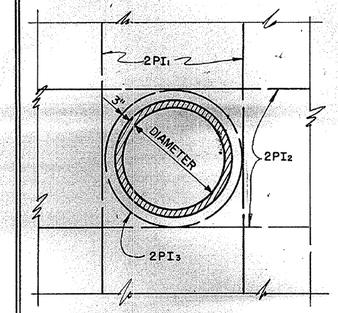
APPROVED BY: D.E. Quinn — BRIDGE DESIGN & PLANS ENGINEER

APPROVED BY: W.H. Harding — BRIDGE ENGINEER

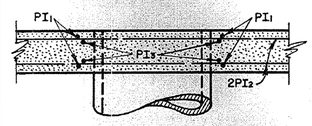
BRIDGE PLANS ID	SHEET NO.
P0042332	514

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	YORK	46.522	US 21	36	125

GENERAL DATA AND ADDITIONAL REINFORCING STEEL AROUND PIPES INSTALLED IN SIDE OF CULVERTS

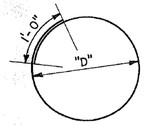


ELEVATION



SECTION

NOTES:
IF LOCATION OF PIPES ARE NOT GIVEN, THE ENGINEER IS TO SET LOCATION IN THE FIELD.
ALL PIPES ARE TO BE IN PLACE AND WRAPPED WITH TWO LAYERS OF TAR PAPER BEFORE THE SURROUNDING CONCRETE IS POURED.
THE STEEL ARRANGEMENT SHOWN HERE IS FOR PIPES IN PLACE AS WELL AS FOR THOSE WHICH ARE TO BE PLACED.



D=DIAMETER OF PIPE + TWO. PIPE THICKNESSES + 6"

BENDING DETAIL
PI_3 BARS

NOTE:
LENGTH OF PI_3 BAR = TTD + 1'-0"

STATION	SIZE PIPE	LOCATION	REINFORCING STEEL PI1 SIZE NO.	PI1 NO. REQ'D	PI1 LENGTH	PI2 SIZE NO.	PI2 NO. REQ'D	PI2 LENGTH	PI3 - DETAILED SIZE NO.	PI3 NO. REQ'D	PI3 LENGTH	QUANTITY LBS.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	S15

NOTES :

The Resident Construction Engineer shall check the location of the headwall before staking it out to make certain that it is in position to accept the pipe and will properly take care of the fill.

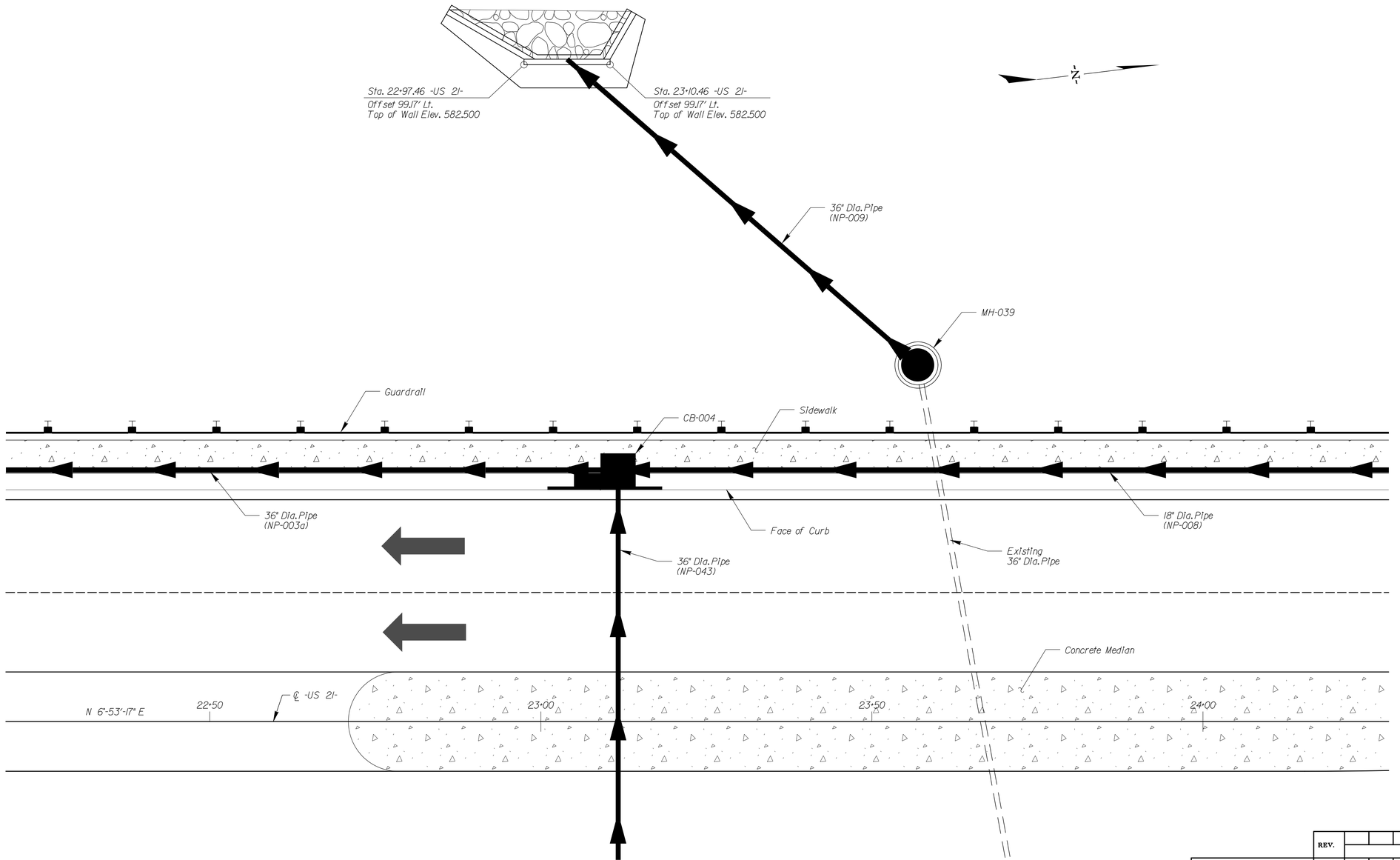
All concrete shall be Class 4000.

Reinforcing steel shall meet the requirements of AASHTO M31, Type W, and be Grade 60.

In the event a headwall is skewed to the pipe,the portion of the pipe that protrudes beyond the exposed face of the headwall shall be cut flush and grouted smooth with the exposed face of the headwall.

Grout shall be Type M mortar material in accordance with Section 718 of the SCDOT Standard Specifications for Highway Construction (Latest Edition).

All dimensions relative to placement of reinforcing steel are to the center of bars.



PLAN

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

HEADWALL
(SHEET 1 OF 3)

REV.			
REV.			
REV.			
REVIEWED			
QUAN.			
DR.	JWJ	JAD	3-22
DES.	JWJ	JAD	3-22
	BY	CHK.	DATE

COUNTY: YORK
ROUTE: US 21

SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Joseph A. Dichak
No. 23993
11/1/2023
JOSEPH A. DICHAK

mastltg 12/27/2022 \\stvgroup.stvinc.com\v3\DGPA\Vol3\Projects\2515776\2515776.0001\90.CAD Models and Sheets\04.CT_Transportation\Culvert Structures\STV Headwall\2515776_Plan Sheet_S15.dgn 2:14:44 PM
$$DATE$$

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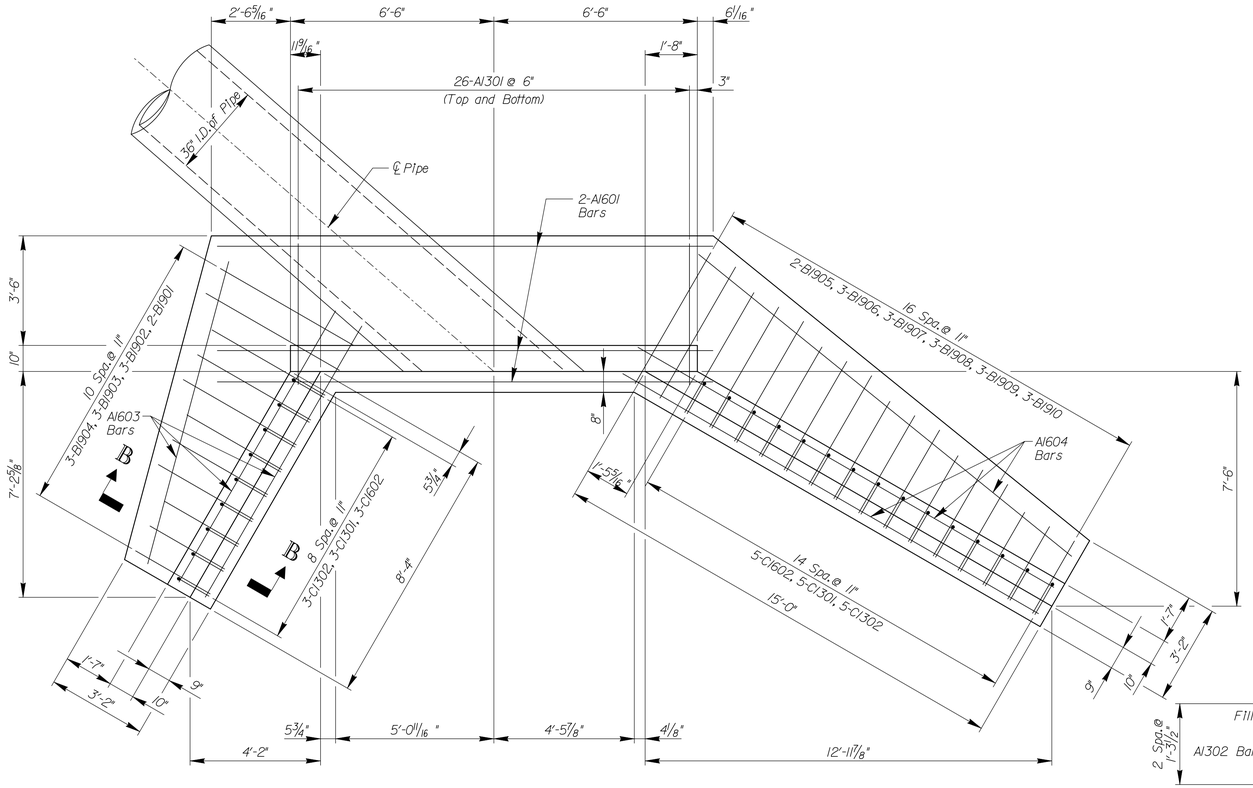
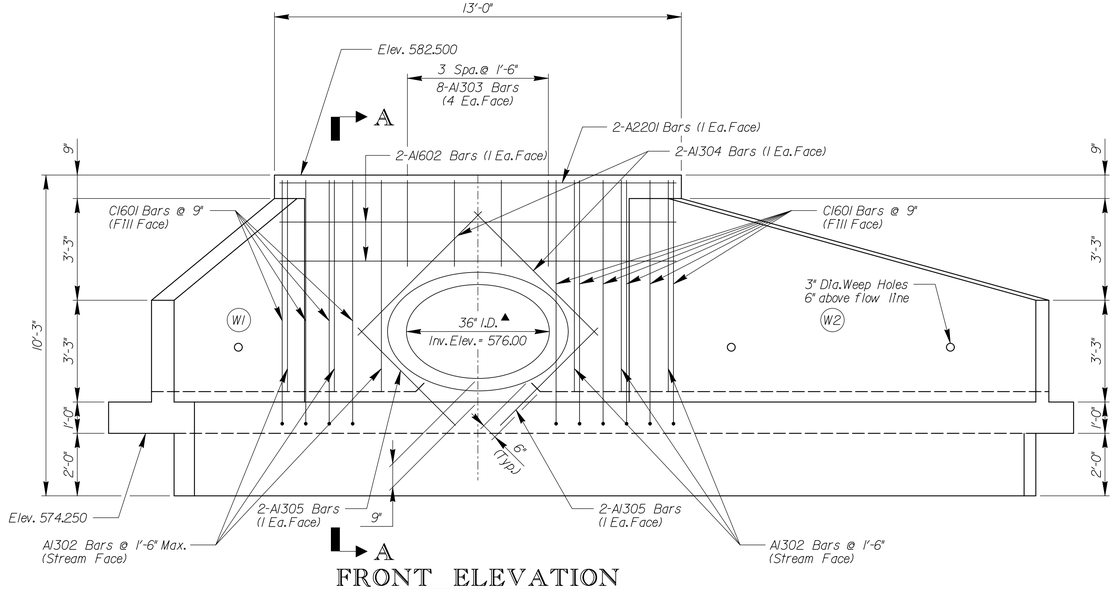
FINAL PLANS

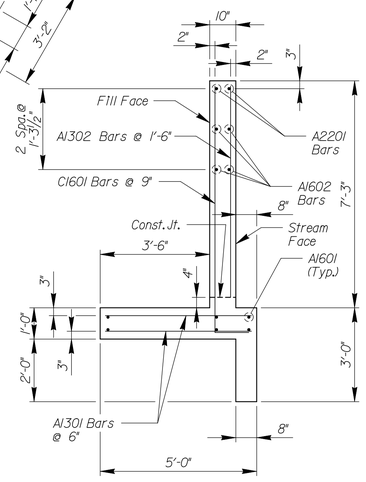
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	S16



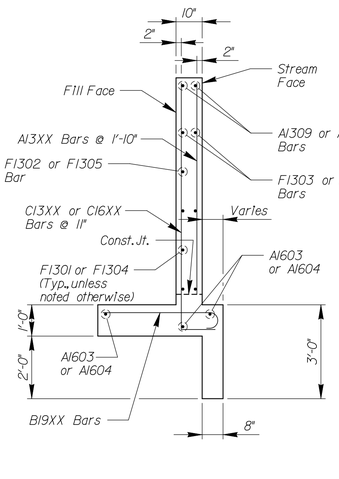
PLAN



FRONT ELEVATION

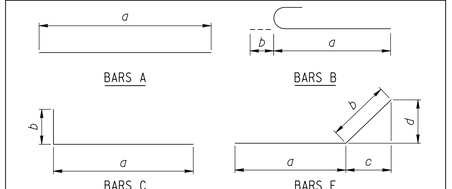


SECTION A-A



SECTION B-B

REINFORCING BENDING DETAILS



REINFORCING STEEL CODE

TYPE	SIZE	SERIES
A	16	01

REINFORCING SCHEDULE FOR HEADWALL

MARK	TOTAL REQ'D.	DIMENSION a	b	c	d	e	LENGTH
A1301	52	4'-6"					4'-6"
A1302	6	6'-9"					6'-9"
A1303	8	2'-9"					2'-9"
A1304	4	5'-7"					5'-7"
A1305	4	4'-5"					4'-5"
A1306	5	4'-11"					4'-11"
A1307	3	3'-10"					3'-10"
A1308	5	2'-9"					2'-9"
A1309	2	8'-7"					8'-7"
A1310	2	14'-1"					14'-1"
A1601	6	15'-10"					15'-10"
A1602	4	12'-8"					12'-8"
A1603	3	10'-0"					10'-0"
A1604	3	15'-4"					15'-4"
A2201	2	12'-8"					12'-8"
B1901	2	4'-11"	8"				5'-7"
B1902	3	4'-2"	8"				4'-10"
B1903	3	3'-6"	8"				4'-2"
B1904	3	2'-9"	8"				3'-5"
B1905	2	4'-10"	8"				5'-6"
B1906	3	4'-5"	8"				5'-1"
B1907	3	4'-0"	8"				4'-8"
B1908	3	3'-7"	8"				4'-3"
B1909	3	3'-2"	8"				3'-10"
B1910	3	2'-8"	8"				3'-4"
C1301	8	4'-11"	1'-1"				6'-0"
C1302	8	3'-10"	1'-1"				4'-11"
C1601	10	7'-10"	1'-1"				8'-11"
C1602	8	6'-0"	1'-1"				7'-1"
F1301	5	8'-3"	7"	3 1/2"	6"		8'-10"
F1302	1	5'-6"	7"	3 1/2"	6"		6'-1"
F1303	2	2'-6"	7"	3 1/2"	6"		3'-1"
F1304	5	14'-10"	7"	6"	3 1/2"		15'-5"
F1305	1	10'-1"	7"	6"	3 1/2"		10'-8"
F1306	2	4'-10"	7"	6"	3 1/2"		5'-5"
Concrete for Structures - Class 4000 (Roadway)						C.Y.	13.7
Reinforcing Steel for Structures (Roadway)						Lb.	1,070

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, STE 517
424 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

HEADWALL
(SHEET 2 OF 3)

REV.			
REV.			
REV.			
REVIEWED			
QUAN.	JWJ	JAD	3-22
DR.	JWJ	JAD	3-22
DES.	JWJ	JAD	3-22
	BY	CHK.	DATE

SOUTH CAROLINA — STV INCORPORATED NO. C0338 — CERTIFICATE OF AUTHORIZATION

Joseph A. Dichak — SOUTH CAROLINA — No. 23993 — 12/11/2023

COUNTY: YORK
ROUTE: US 21

$$DATE$$
mastittg 12/27/2022 \\stvgroupusstvhnc.com\vx3\DCPA\Vol3\Projects\255776\255776.000\90.CAD Models and Sheets\04.CT_Transportation\Culvert Structures\STV Headwall\255776_Plan Sheet_S16.dgnPlt536 PM

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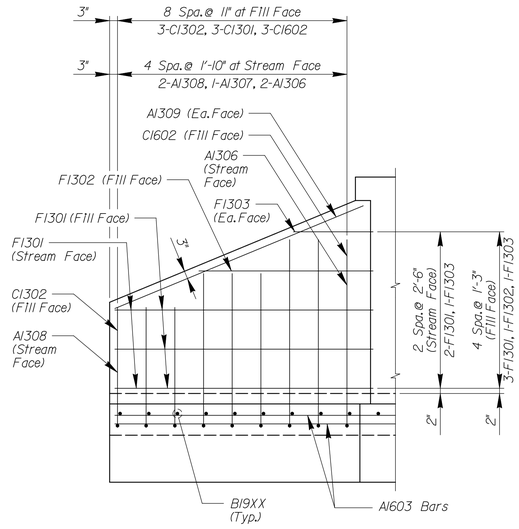
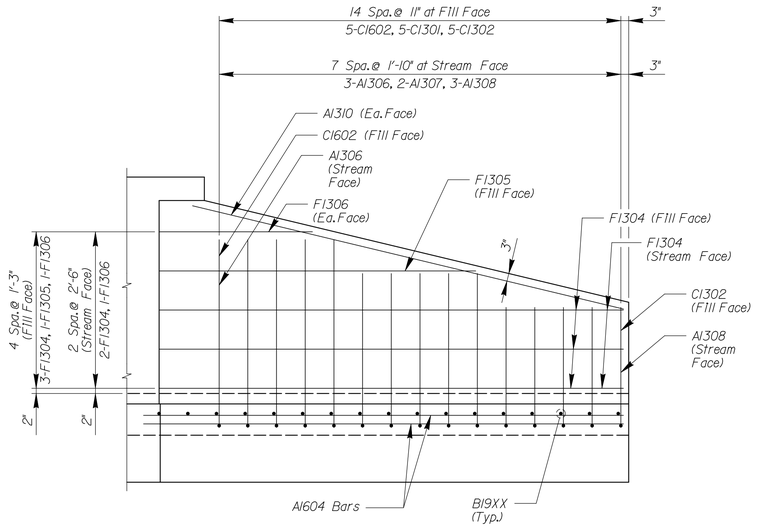
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	S17



WING W1 ELEVATION



WING W2 ELEVATION

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

HEADWALL
(SHEET 3 OF 3)

REV.			
REV.			
REV.			
REVIEWED			
QUAN.			
DR.	JWJ	JAD	3-22
DES.	JWJ	JAD	3-22
	BY	CHK.	DATE

COUNTY: YORK
ROUTE: US 21

SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Joseph A. Dichak
No. 23993
1/11/2023
JOSEPH A. DICHAK

mastlitg 12/27/2022 \\stvgroup.stvinc.com\v3\DGPA\Vol3\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Culvert Structures\STV Headwall\2515776_Plan Sheet_S17.dgn2:16:35 PM

$$DATE$$

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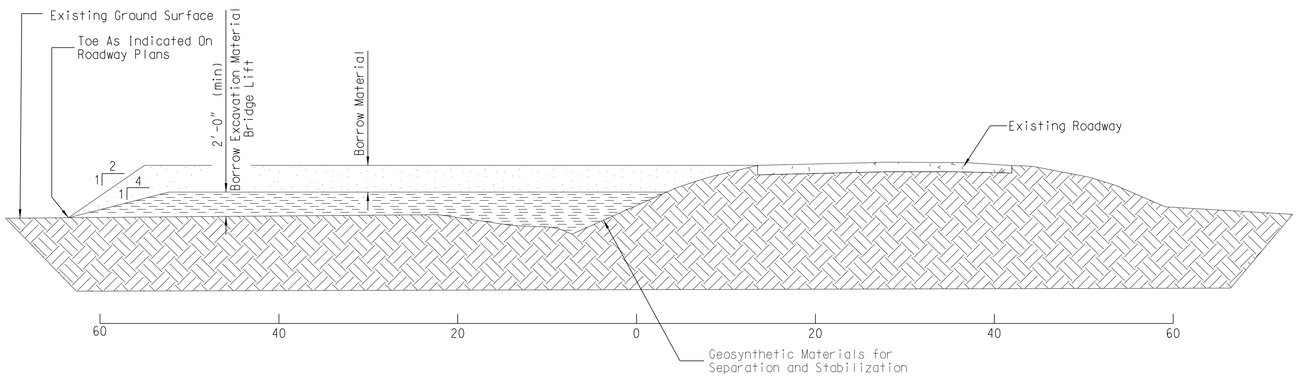
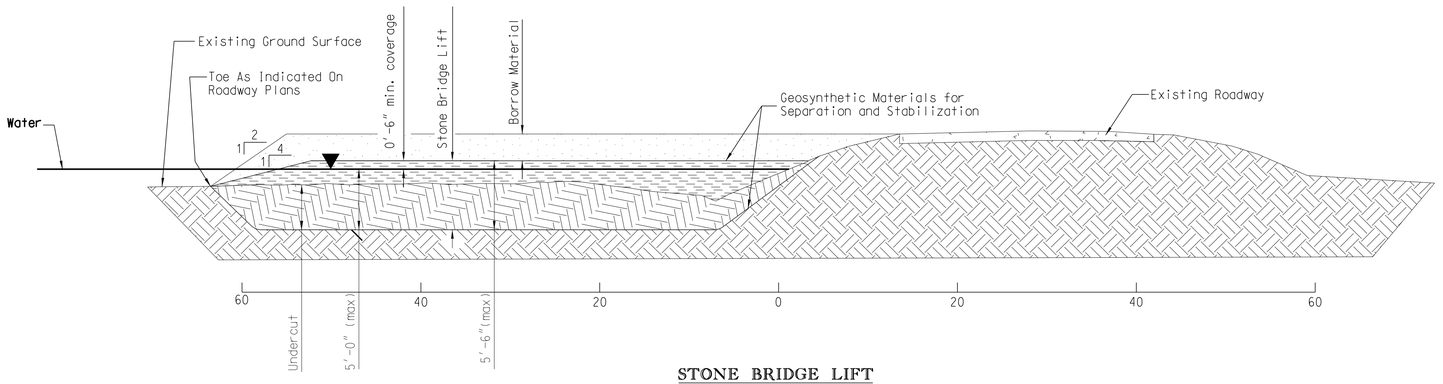
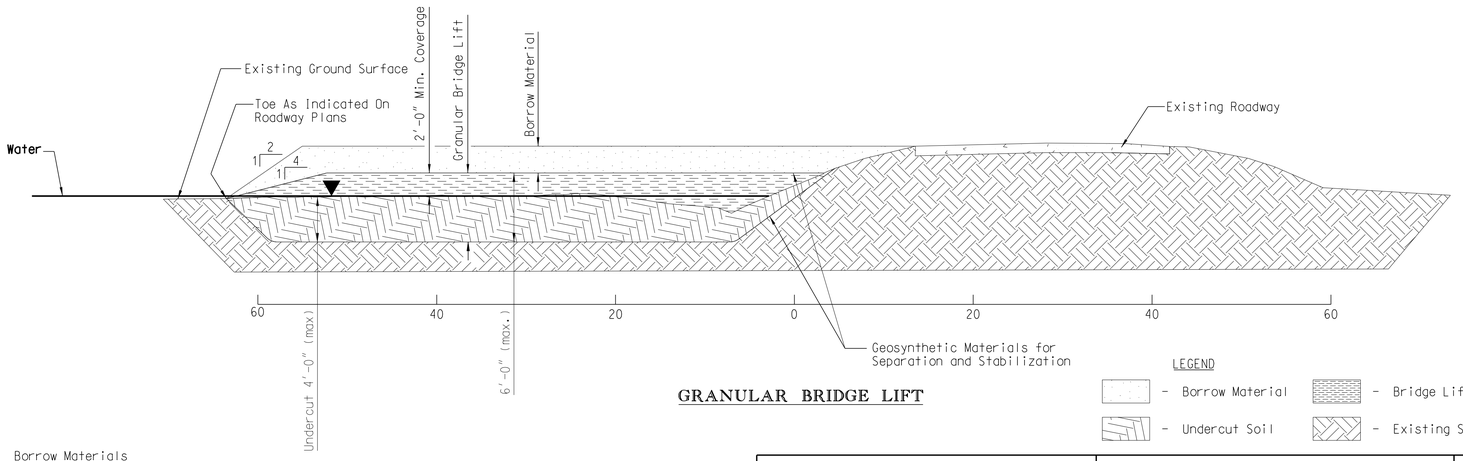
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
	SC	YORK	0042332	US21 & SC 51	G1



BORROW EXCAVATION BRIDGE LIFT



STONE BRIDGE LIFT



GRANULAR BRIDGE LIFT

LEGEND

- Borrow Material
- Bridge Lift
- Undercut Soil
- Existing Soil

Borrow Materials

Borrow materials shall meet the requirements of subsection 203.2.1.8 of the Standard Specifications for York County.

Earthborne Vibration Monitoring

Level 1 York County has elected to not monitor the site; therefore, no Earth-borne Vibration Monitoring is required. York County assumes all risk for any potential damage.

Muck Excavation- (Shall be paid as Unclassified Excavation)

The following approximate areas have been identified as requiring muck excavation. Areas along the planned alignments requiring undercut or mucking are to be determined in the field at the time of construction with joint consultation between the RCE, GEOR, and the Contractor and shall be included and paid for as 2031000 Unclassified Excavation.

ALIGNMENT	Begin Station	End Station	Direction	Begin Distance from Proposed Centerline, ft.	End Distance from Proposed Centerline, ft.	Estimated Depth Below Existing Ground Surface, ft.
US 21	33+00	34+50	RIGHT	34	95	2
US 21	33+00	34+50	LEFT	53	100	2
US 21	40+50	43+50	RIGHT	38	85	2
US 21	39+00	42+00	LEFT	39	82	2
US 21	66+30	67+00	RIGHT	36	71	2
US 21	65+50	68+00	LEFT	52	103	2
SC 51	315+90	316+50	LEFT	24	63	2
SC 51	316+00	316+50	LEFT	24	66	2

Additional areas discovered to deflect or settle may require muck excavation or undercutting as directed by the RCE. Lateral extent of undercutting to be defined by the staked toe line of the slope. The depth of undercutting or muck excavation to be determined by the RCE with consultation with the GEOR.

If the undercutting completely removes the materials identified as muck, then bridge lift materials may be placed directly on the firm materials.

Areas that cannot be stabilized by proof-rolling may optionally be stabilized by construction of a bridge lift. The bridge lift if performed must include a stabilization geosynthetic meeting the requirements of SC-M-203-1, Geosynthetic Materials for Separation and Stabilization at the base of the lift. After the placement of the initial bridge lift material, expose approximately 1 square foot of the geosynthetic for visual observation to identify any damage caused by the placement of the bridge lift material. After ascertaining that the geosynthetic has not been damaged, replace the bridge lift material excavated to allow observation of the geosynthetic. If the geosynthetic appears to be damaged, expose a larger area and contact the GEOR for instructions. Damaged areas shall be repaired by the Contractor at no expense to the Department.

Any ruts that develop in bridge lift materials shall be filled in with similar bridge lift materials. Do not blade down the ruts, since this will decrease the thickness of the bridge lift.

In areas that require mucking or undercutting, approved borrow material may be placed as a bridge lift as long as the grade on which the material is being placed is at least 2 feet above the groundwater or surface water level at the time of construction. Place borrow material bridge lifts in single lift thicknesses no greater than 2 feet. Do not place a bridge lift consisting of borrow material within 3 feet of the base of the pavement section. Place only compacted borrow material soil or stone bridge lift within this zone.

Contractor shall use either stone or granular bridge lift materials meeting the requirements of Bridge Lift Materials Supplement Specification. Place the bridge lift materials in single lifts not exceeding a 2-foot thickness. If additional compacted borrow material soil is needed to reach grade, place a geotextile for separation meeting the requirements of SC-M-203-1, Geosynthetic Materials for Separation and Stabilization between the stone bridge lift and the overlying compacted soil. After the placement of the initial lift of compacted material, expose approximately 1 square foot of the geosynthetic for visual observation to identify any damage caused by the placement of the compacted material. After ascertaining that the geosynthetic has not been damaged, replace and compact the material excavated to allow observation of the geosynthetic. If the geosynthetic appears to be damaged, expose a larger area and contact the GEOR for instructions. Any damaged areas shall be repaired by the Contractor at no expense to the Department.

The following quantities associated with mucking and undercutting, i.e. mucking, bridge lift material, geogrid, and geotextile for separation of sub-grade and sub-base, are for bid estimation purposes only. The Estimated Quantity is the total quantity estimated for a specific item to be used on the project, while the Inclusion Quantity is the additional quantity that may be required in areas not previously identified on the plans as needing the item. Do not purchase or stockpile these bid items on site without prior written approval from the RCE unless specific areas and details are defined in the plans.

Item No.	Pay Item	Quantity
2031000	Unclassified Excavation	4650 CY
2052010	Stone Bridge Lift Material	6500 TONS
2036020	Geotextile Separation	7000 SY
2037030	Geogrid, Stabilization	200 SY

Dewatering, if required, is incidental to Unclassified Excavation and shall not have a separate pay item.

Embankments

Transverse differential settlement should be anticipated between a widened portion of the embankment and the existing embankment. The widened embankment will induce loading on the existing embankment that will in turn cause settlement of the existing embankment. This settlement may potentially cause damage to the existing embankment. Damage is anticipated and the Contractor is responsible for maintaining the existing travel way. The GEOR will coordinate with Construction to determine the quantities required to maintain the existing travel way.

Cut benches as specified in Subsection 205.4.4.

S&ME
9751 SOUTHERN PINE BLVD
CHARLOTTE, NC 28273
(704) 523-4726

S&ME Project No. 1351-12-037

SCALE: NOT TO SCALE

DocuSigned by: Thomas J. Daly
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 040F No. 35936
5/16/2023
THOMAS J. DALY
SOUTH CAROLINA S&ME, INC. No. C00473 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1			

PREPARED BY: TJD DATE 05-16-2023
REVIEWED BY: KHH DATE 05-16-2023

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
YORK COUNTY PROJECT ID: 11149-004

GEOTECHNICAL DETAILS SHEET
MUCK EXCAVATING

US 21 FROM SC 460 TO 700' SOUTH OF S-48
& SC 51 FROM US 21 TO THE NC STATE LINE

T:\Charlotte-1350\Projects\2021\351-12-037 SCDOT US 21 to SC 51- STV_FINAL Roadway Report\G-1US21& SC51Muck Excavation.dgn
5/16/2023

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
	SC	YORK	0042332	US21 & SC 51	G2

US21 CULVERTS AT STA. 33+80 & 41+06

A minimum of 18 inches of #57 Stone for bedding shall be placed under the culvert extensions, and a non-woven geotextile shall be placed so that the 57 Stone is separated on all sides from the surrounding and underlying soils.

If conditions are encountered that require mucking or undercutting use No. 57 stone as borrow material. The depth to which mucking or undercutting is required is dependent upon encountering a suitable bearing material within the excavation as determined by the Geotechnical Engineer of Record. When using No. 57 Stone to backfill undercut areas, use a non-woven geotextile to separate the No. 57 Stone from the surrounding soils. If muck excavation is required, refer to the Supplemental Specification for Muck Excavation.

Based on the borings and the culvert extension invert elevations, excavation into PWR and/or rock may be required during construction of the culvert extensions. Excavation into PWR and/or rock should be anticipated for the Station 33+80 culvert upstream and downstream extensions. Excavation into PWR and/or rock should be anticipated for the Station 41+06 culvert upstream extension.

Where PWR and Rock are encountered, excavation of these materials shall be paid as structure excavation.

SC51 CULVERT AT STA. 316+23

A minimum of 18 inches of #57 Stone for bedding shall be placed under the culvert extension, and a non-woven geotextile shall be placed so that the 57 Stone is separated on all sides from the surrounding and underlying soils.

If conditions are encountered that require mucking or undercutting use No. 57 stone as borrow material. The depth to which mucking or undercutting is required is dependent upon encountering a suitable bearing material within the excavation as determined by the Geotechnical Engineer of Record. When using No. 57 Stone to backfill undercut areas, use a non-woven geotextile to separate the No. 57 Stone from the surrounding soils. If muck excavation is required, refer to the Supplemental Specification for Muck Excavation.

Based on the borings and the culvert extension invert elevations, excavation into PWR and/or rock may be required during construction of the culvert extensions.

Where PWR and Rock are encountered, excavation of these materials shall be paid as structure excavation.

9751 SOUTHERN PINE BLVD
CHARLOTTE, NC 28273
(704) 523-4726

S&ME Project No. 1351-12-037

SCALE: NOT TO SCALE

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Document ID: 2B3F449F-...
SOUTH CAROLINA ENGINEERING No. 35936 THOMAS J. DALY 10/4/2021
SAME, INC. No. C00473 CERTIFICATE OF AUTHORIZATION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
4			
3			
2			
1			

PREPARED BY: TJD DATE 03-10-2022
REVIEWED BY: KHH DATE 03-10-2022

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
YORK COUNTY PROJECT ID: 11149-004

GEOTECHNICAL CULVERT DETAILS SHEET
MUCK EXCAVATING

US 21 FROM SC 460 TO 700' SOUTH OF S-48
& SC 51 FROM US 21 TO THE NC STATE LINE

$$$$$$$$path$$$$$$$$filename$$$$$$$$
$$$$date$$$$

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	111149-004	US 21	EC6

Construction Sequence – Phase I

Items must occur in the order listed; items cannot occur concurrently unless specifically noted.

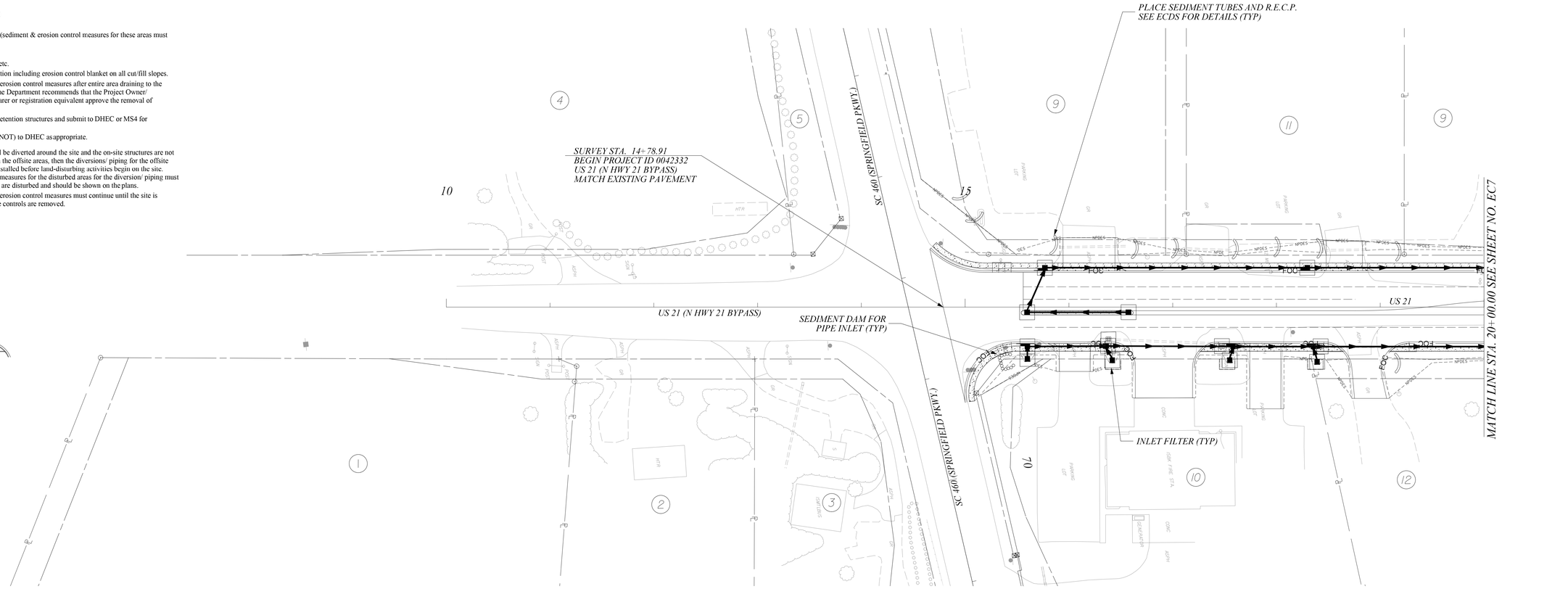
1. Receive NPDES coverage from DHEC
2. Conduct pre-construction meeting (on-site if more than 10 acres disturbed and non-linear)
3. Notify DHEC EQC Regional office or OCRM office 48 hours prior to beginning land-disturbing activities
4. Install construction entrance(s)
5. Clear & grub only as necessary for installation of perimeter controls
6. Install perimeter controls (e.g., silt fence)

Construction Sequence – Phase II

1. Clear & grub site or demolition (sediment & erosion control measures for these areas must already be installed)
2. Complete rough grading
3. Complete fine grading, paving, etc.
4. Install permanent/ final stabilization including erosion control blanket on all cut/fill slopes.
5. Remove temporary sediment & erosion control measures after entire area draining to the structure is finally stabilized (The Department recommends that the Project Owner/ Operator have the SWPPP Preparer or registration equivalent approve the removal of temporary structures.)
6. Perform as-built surveys of all detention structures and submit to DHEC or MS4 for acceptance.
7. Submit Notice of Termination (NOT) to DHEC as appropriate.

Note: If flows from offsite areas will be diverted around the site and the on-site structures are not designed to handle flows from the offsite areas, then the diversions/ piping for the offsite flows must be designed and installed before land-disturbing activities begin on the site. Sediment and erosion control measures for the disturbed areas for the diversion/ piping must be installed before those areas are disturbed and should be shown on the plans.

Note: Maintenance of sediment and erosion control measures must continue until the site is permanently stabilized and the controls are removed.



NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
3. USE TYPE E AND TYPE F INLET FILTER TUBES FOR ALL CB STRUCTURES AS PER SCDOT STD 815-005-00 AND 815-006-00.
4. PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY PIPES PER SCDOT STD 719-610-00.
5. PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.
6. USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.
7. TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.
8. IF SEDIMENT TUBES ARE DEEMED INEFFECTIVE BY THE RCE DUE TO LOCAL SOIL CONDITIONS, THEN THE CONTRACTOR SHALL PLACE DITCH CHECKS IN LIEU OF SEDIMENT TUBES AS DIRECTED BY THE RCE.

EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — 12/4/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 1

matting
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1/0/2023

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	EC7

PLACE SEDIMENT TUBE AND R.E.C.P.
SEE ECDS FOR DETAILS (TYP)

PLACE 27 TONS OF CLASS C RIPRAP
PLACE 33 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP

PLACE 30 TONS OF CLASS C RIPRAP
PLACE 36 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER
RIPRAP

SURVEY STA.10+ 33.50
BEGIN PROJECT ID 0042332
MERCANTILE PLACE
MATCH PROPOSED US 21 PAVEMENT

SURVEY STA.13+ 85.00
BEGIN PROJECT ID 0042332
S-1134 (LAKE VIEW ROAD)
MATCH EXISTING PAVEMENT

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP

PLACE 223 TONS OF CLASS B RIPRAP
PLACE 240 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP

MATCH LINE STA. 20+ 00.00 SEE SHEET NO. EC6

MATCH LINE STA. 35+ 00.00 SEE SHEET NO. EC8

PLACE 10 TONS OF CLASS A RIPRAP
PLACE 13 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP
6' RADIUS AROUND EXISTING
UTILITY POLE

INLET FILTER (TYP)

SURVEY STA.11+ 40.00
END PROJECT ID 0042332
MERCANTILE PLACE
MATCH EXISTING PAVEMENT

SURVEY STA.14+ 84.26
END PROJECT ID 0042332
S-1134 (LAKE VIEW ROAD)
MATCH PROPOSED US 21 PAVEMENT

PLACE 94 TONS OF CLASS B RIPRAP
PLACE 109 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP

PLACE 24 TONS OF CLASS C RIPRAP
PLACE 34 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP

EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

scale 50 0 50 100 feet

NOTES:

1. ***USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.***
2. ***USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.***
3. ***USE TYPE E AND TYPE F INLET FILTER TUBES FOR ALL CB STRUCTURES AS PER SCDOT STD 815-005-00 AND 815-006-00.***
4. ***PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY PIPES PER SCDOT STD 719-610-00.***
5. ***PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.***
6. ***USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.***
7. ***TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.***

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 21220 — 11/1/2023 — KELLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 2

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11/0/2023

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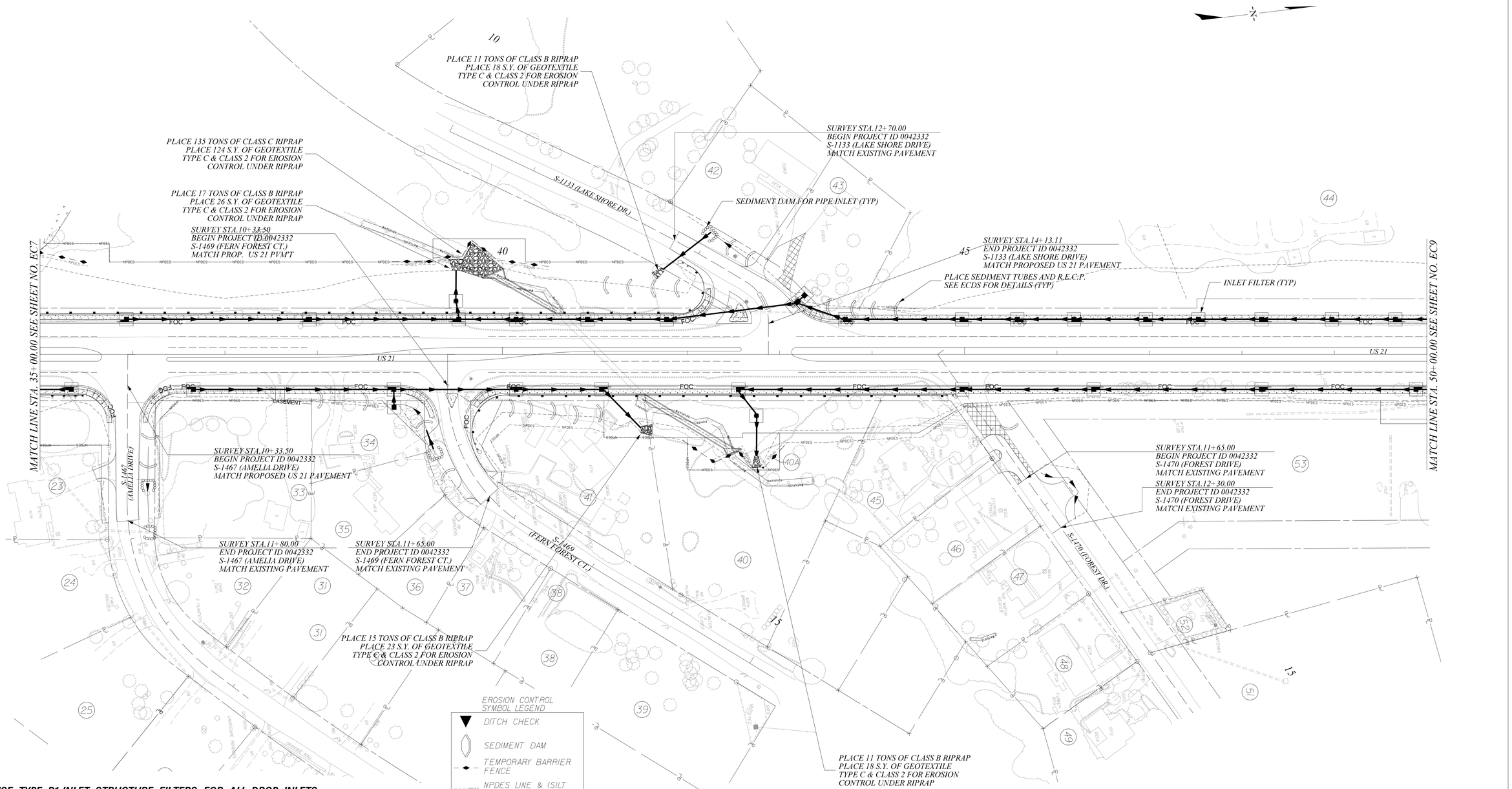
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	EC8



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
3. USE TYPE E AND TYPE F INLET FILTER TUBES FOR ALL CB STRUCTURES AS PER SCDOT STD 815-005-00 AND 815-006-00.
4. PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY PIPES PER SCDOT STD 719-610-00.
5. PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.
6. USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.
7. TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — Date: 12/14/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 3

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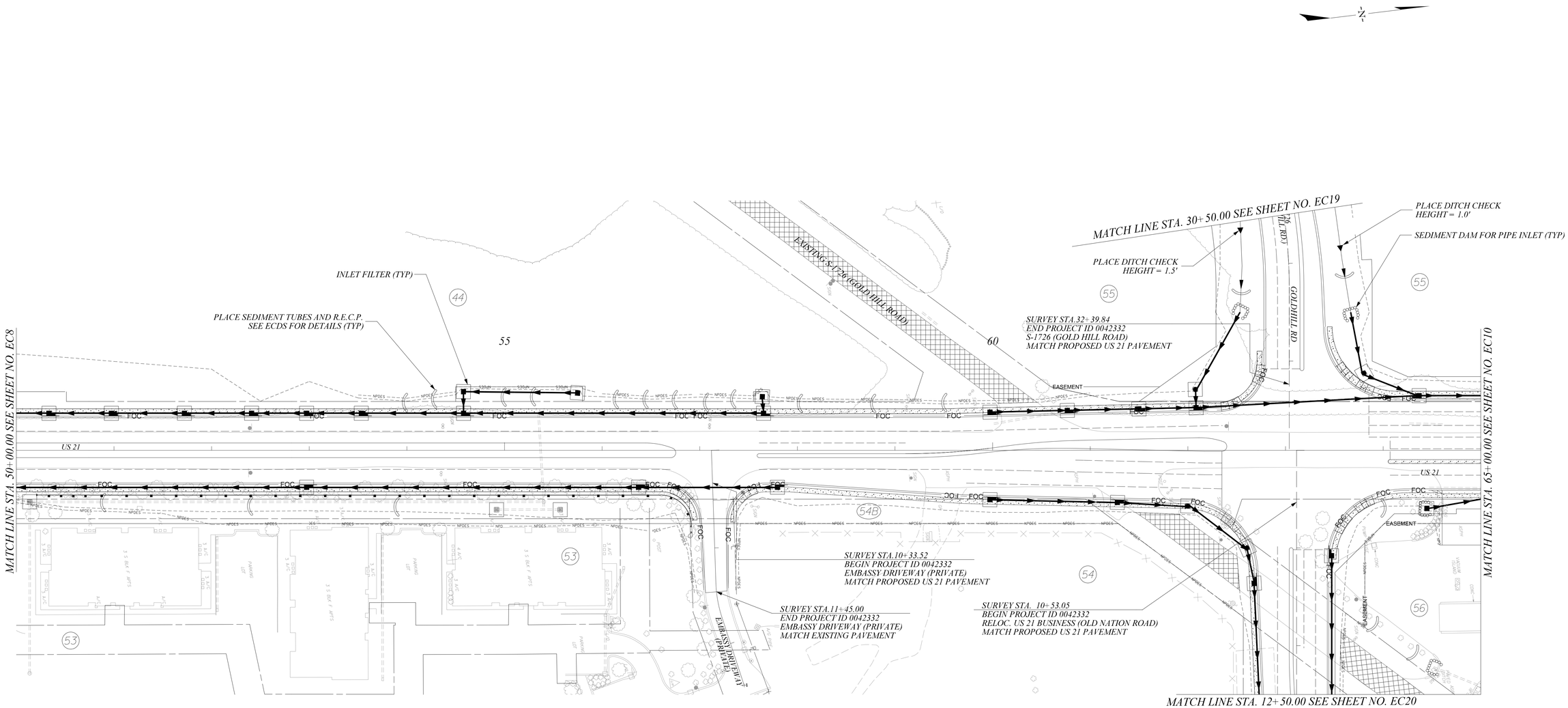
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	EC9



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 11/11/2023 — PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 4

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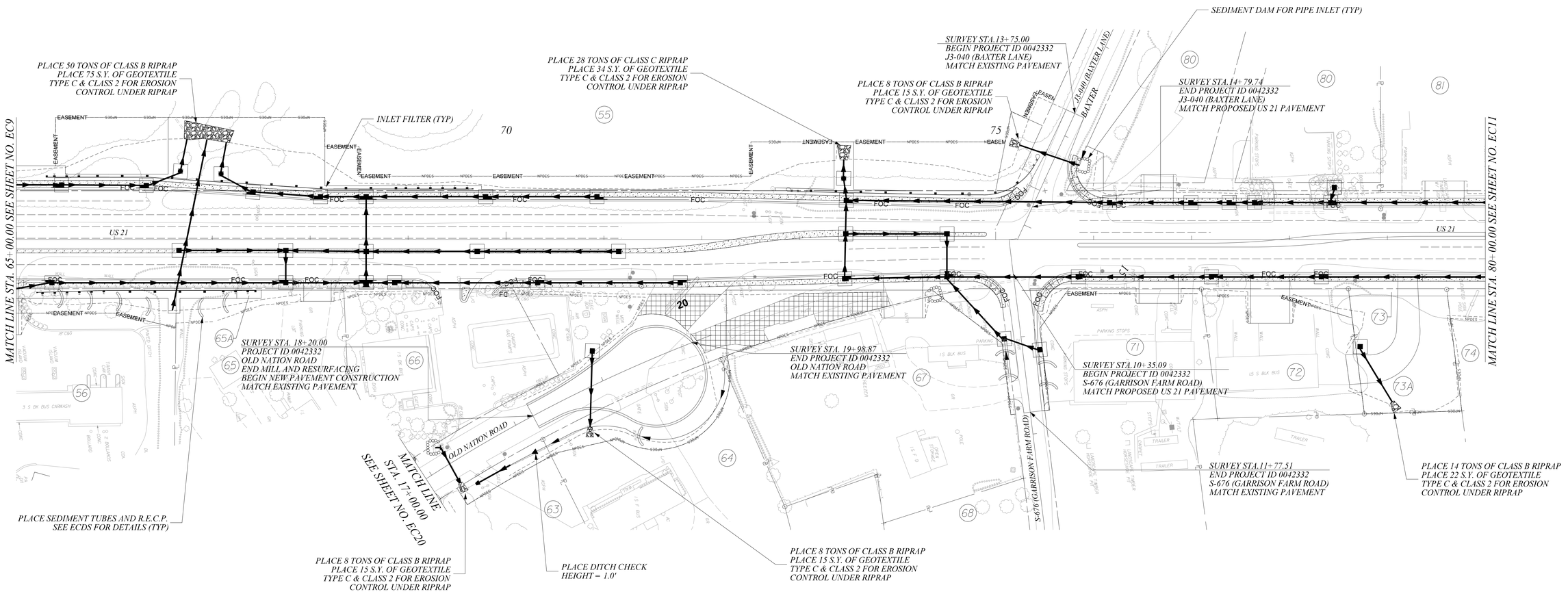
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	EC10



NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
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EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED No. C03318 CERTIFICATE OF AUTHORIZATION

Registered SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 1/11/2023 LILLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 5

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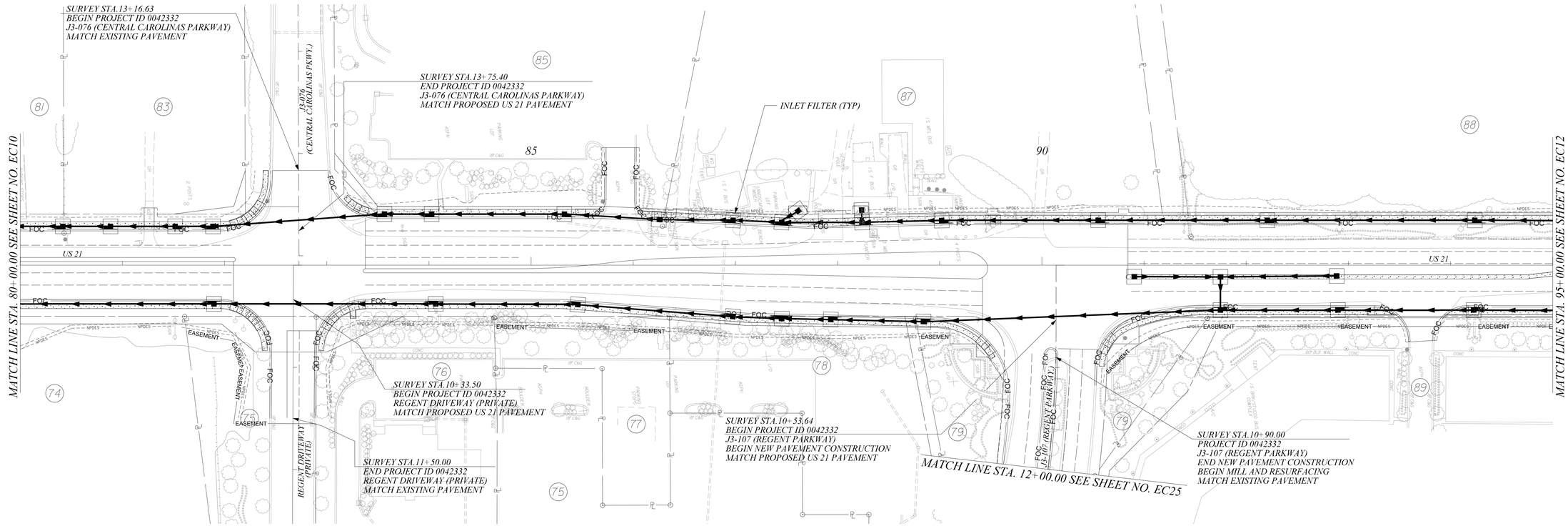
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	EC11



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — 11/1/2023 — PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 6

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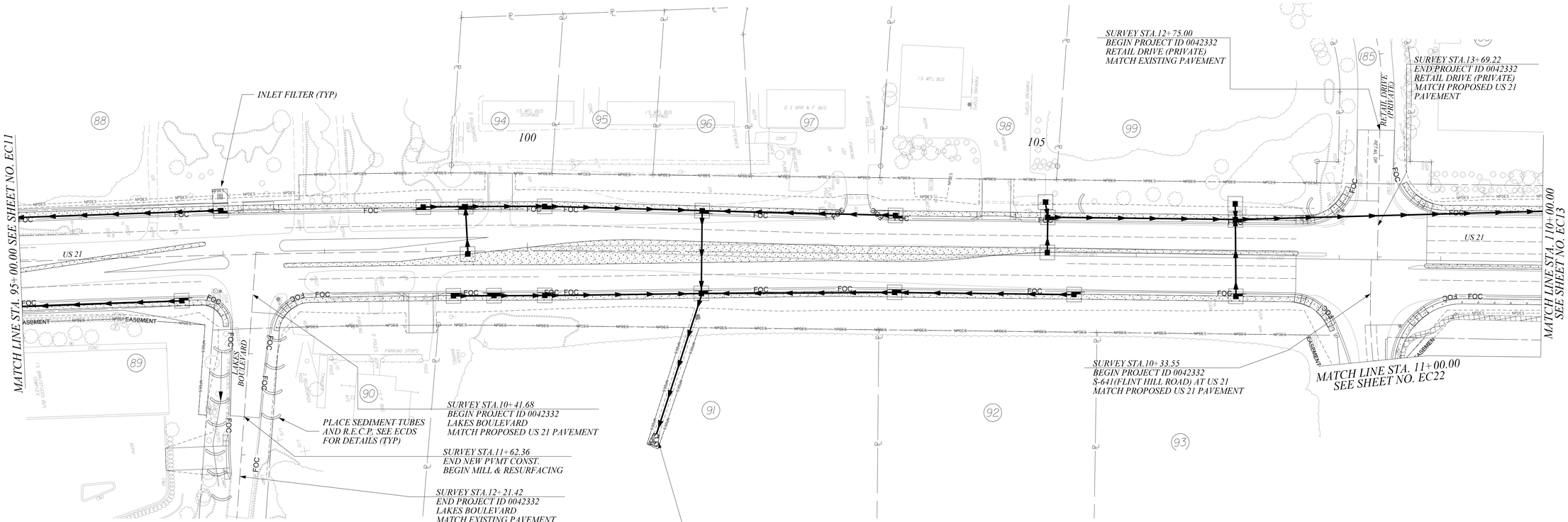
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	EC12



NOTES:

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EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED No. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — Digitally signed by PARIS PETERS — No. 21220 — 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 7

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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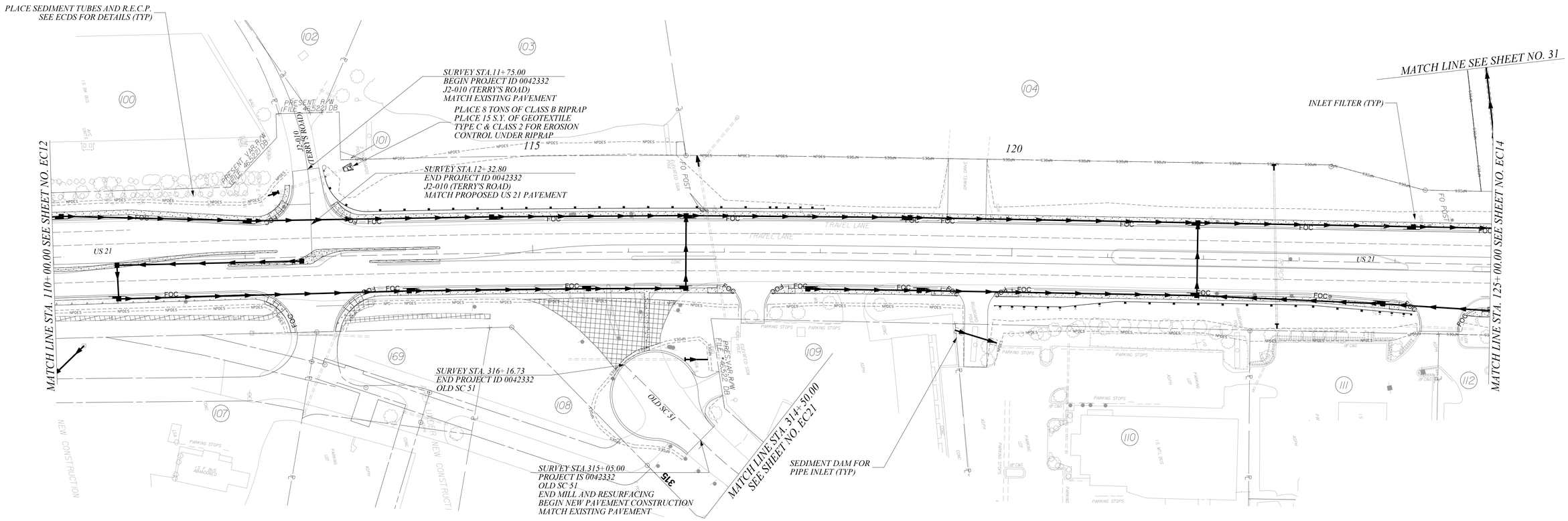

NOTES:

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EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — 10/1/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 8

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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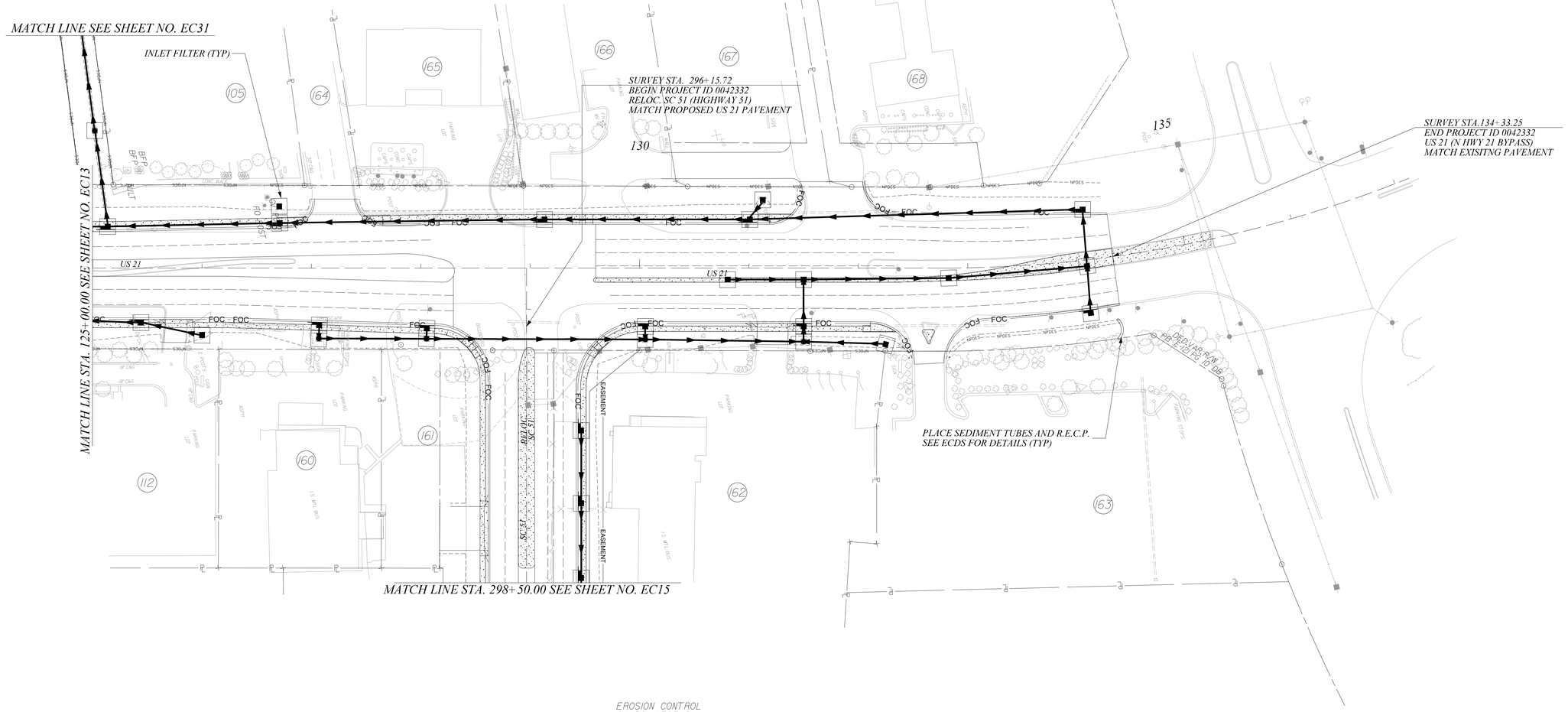

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
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EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 21220 — 5/27/2025 — DocuSigned by: Lyndi Paris Peters — 1BD7172E2F6D467... — LYNDI PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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1	SCN	5/05/25	STORM SYSTEM ALONG PARCEL 162 UPDATED

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 9

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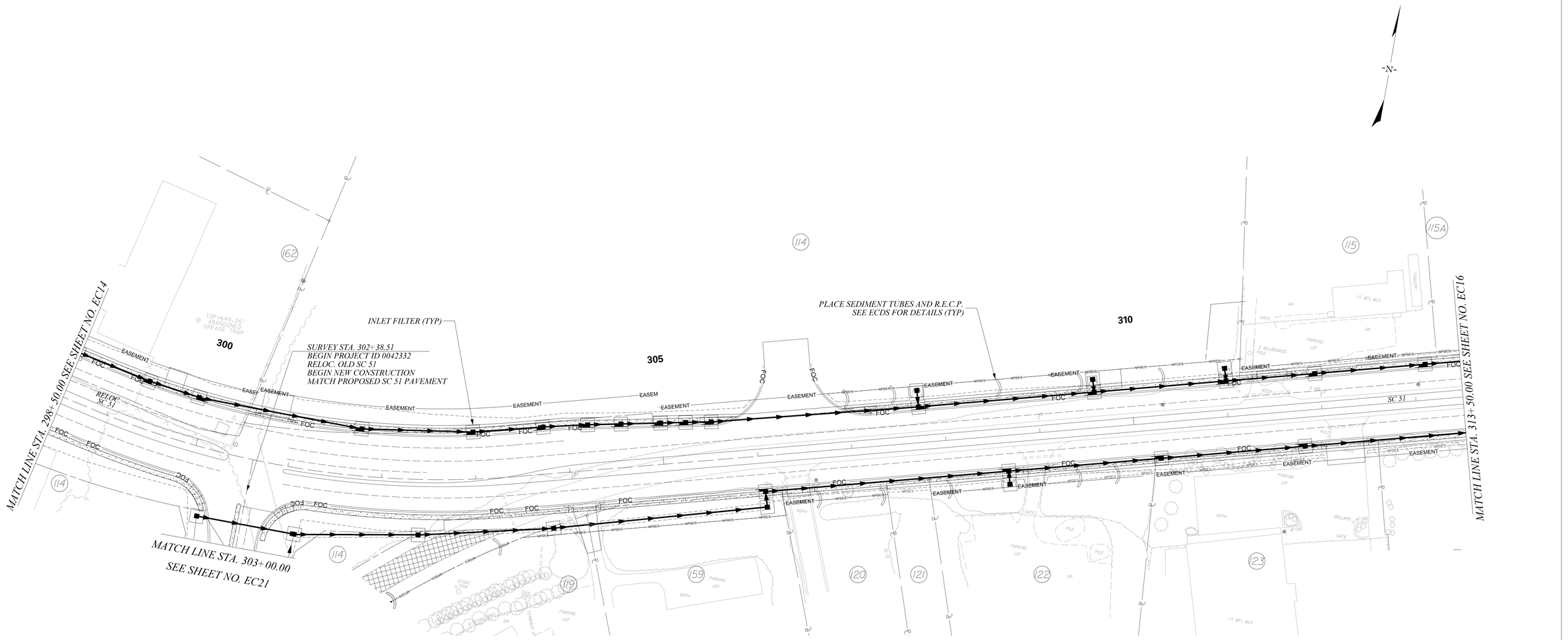
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	EC15



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
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50 0 50 100
scale feet

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 — 1/11/2023 — LAY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 10

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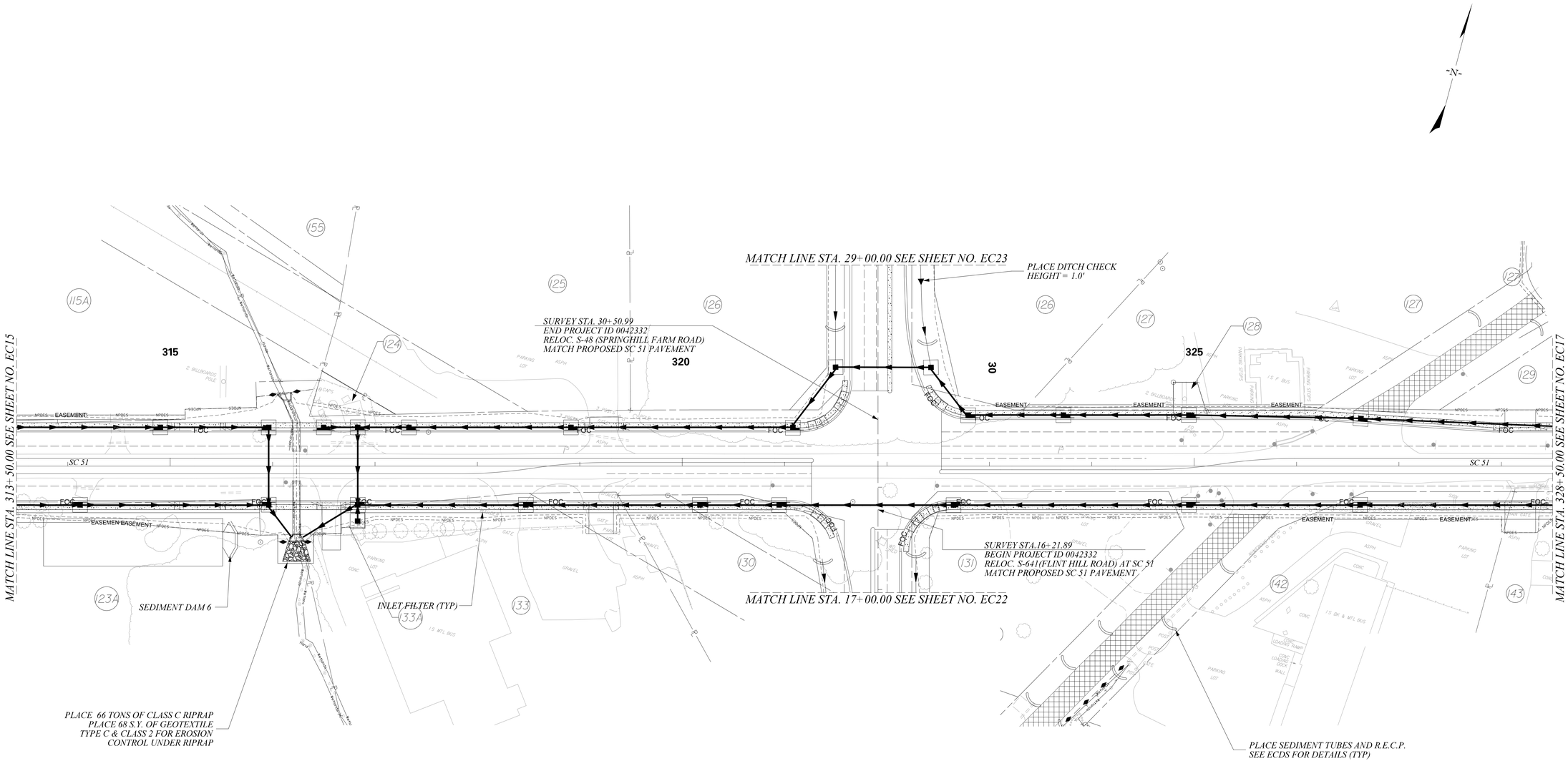
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	EC16



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
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50 0 50 100
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer No. 21220 1/11/2023 STEVEN PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 11

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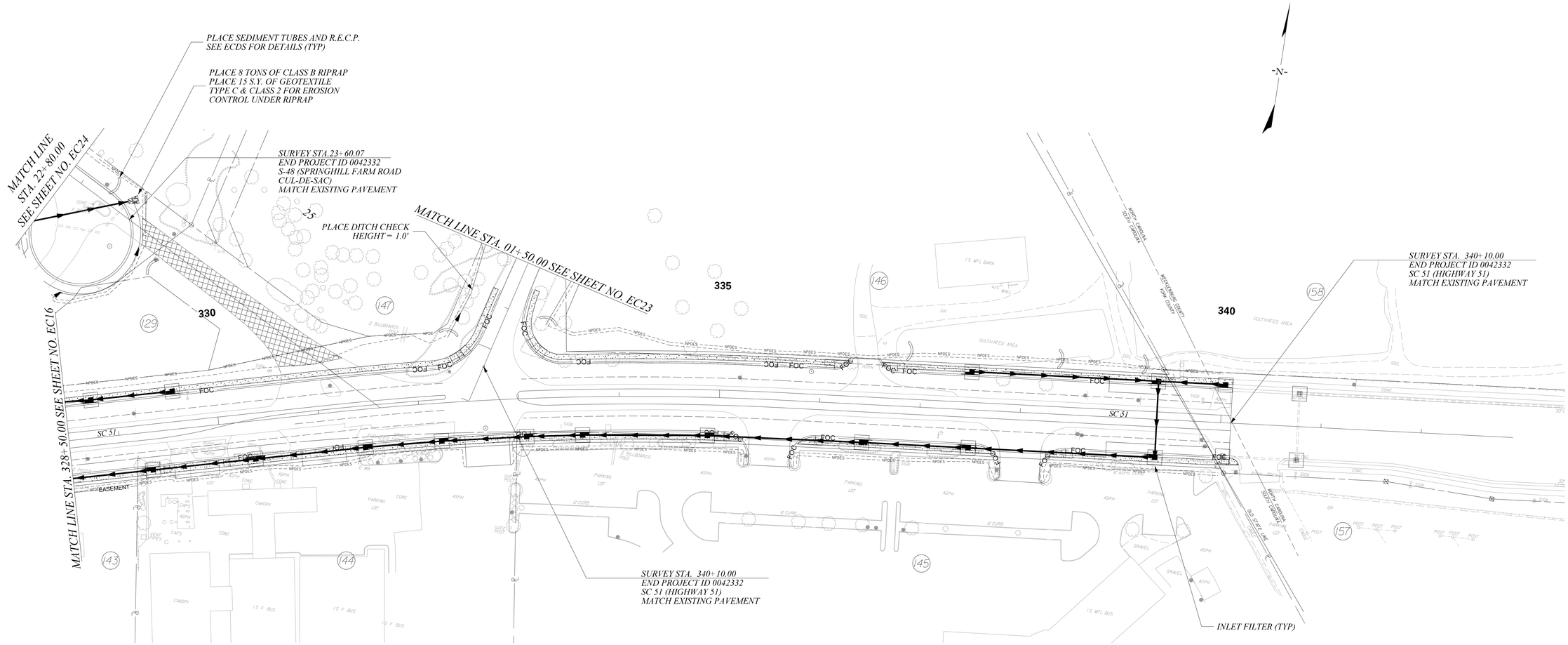
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	EC17



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
3. USE TYPE E AND TYPE F INLET FILTER TUBES FOR ALL CB STRUCTURES AS PER SCDOT STD 815-005-00 AND 815-006-00.
4. PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY PIPES PER SCDOT STD 719-610-00.
5. PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.
6. USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.
7. TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

Designed by: STV
Registered Professional Engineer
No. 21220
11/11/2023
LAURA PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 12

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1/10/2023

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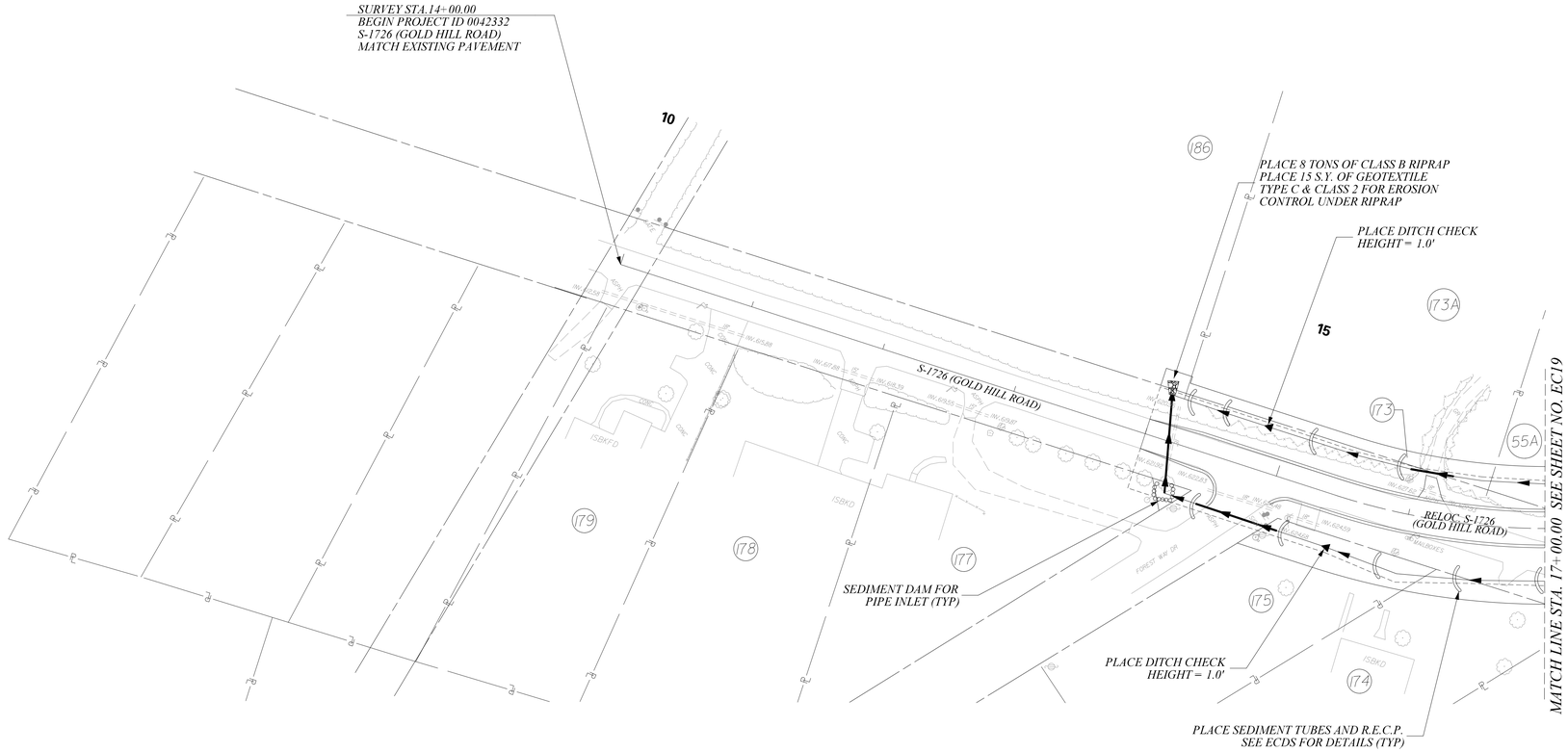
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	S-1726	EC18


SURVEY STA.14+ 00.00
BEGIN PROJECT ID 0042332
S-1726 (GOLD HILL ROAD)
MATCH EXISTING PAVEMENT
10
15
S-1726 (GOLD HILL ROAD)
PLACE 8 TONS OF CLASS B RIPRAP
PLACE 15 S.Y. OF GEOTEXTILE
TYPE C & CLASS 2 FOR EROSION
CONTROL UNDER RIPRAP
PLACE DITCH CHECK
HEIGHT = 1.0'
RELOC S-1726
(GOLD HILL ROAD)
SEDIMENT DAM FOR
PIPE INLET (TYP)
PLACE DITCH CHECK
HEIGHT = 1.0'
PLACE SEDIMENT TUBES AND R.E.C.P.
SEE ECDS FOR DETAILS (TYP)
MATCH LINE STA. 17+ 00.00 SEE SHEET NO. EC19
186
173A
173
55A
179
178
177
175
174
ISBKFD
ISBKD
CONC
FOREST WATER
FOREST WATER OFF
IRON PIPE
IRON PIPE OFF
IRON PIPE OFF
IRON PIPE OFF

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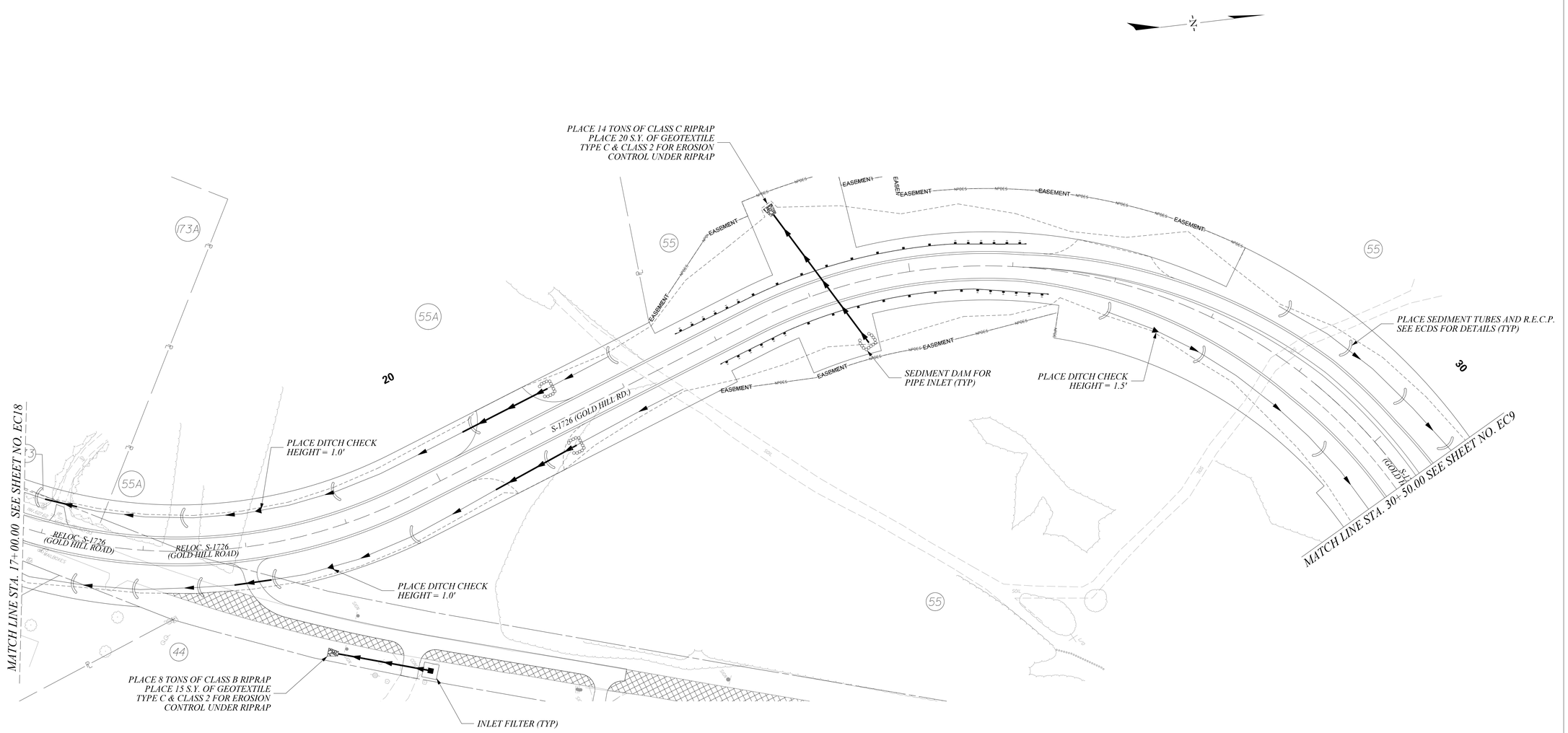
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	S-1726	EC19



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
3. USE TYPE E AND TYPE F INLET FILTER TUBES FOR ALL CB STRUCTURES AS PER SCDOT STD 815-005-00 AND 815-006-00.
4. PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY PIPES PER SCDOT STD 719-610-00.
5. PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.
6. USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.
7. TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED NO. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS
Docusigned by: 8CC2F512FED467...
10/1/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 14

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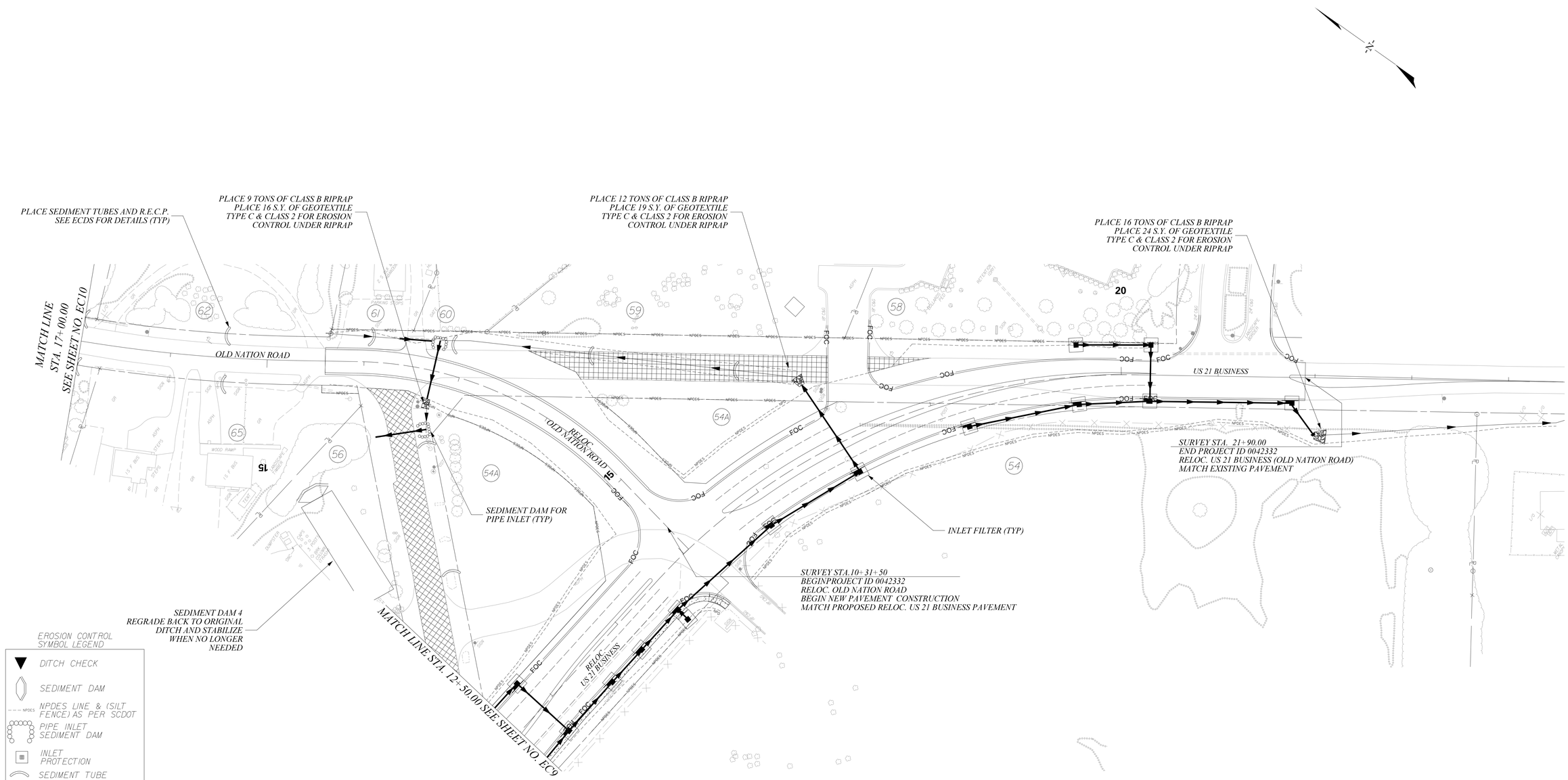
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 BUS	EC20



NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
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50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 11/1/2023 PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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1	PRJ	05/14/2018	INLET FILTER FOR DI-228a HAS BEEN MOVED TO NEW LOCATION

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 15

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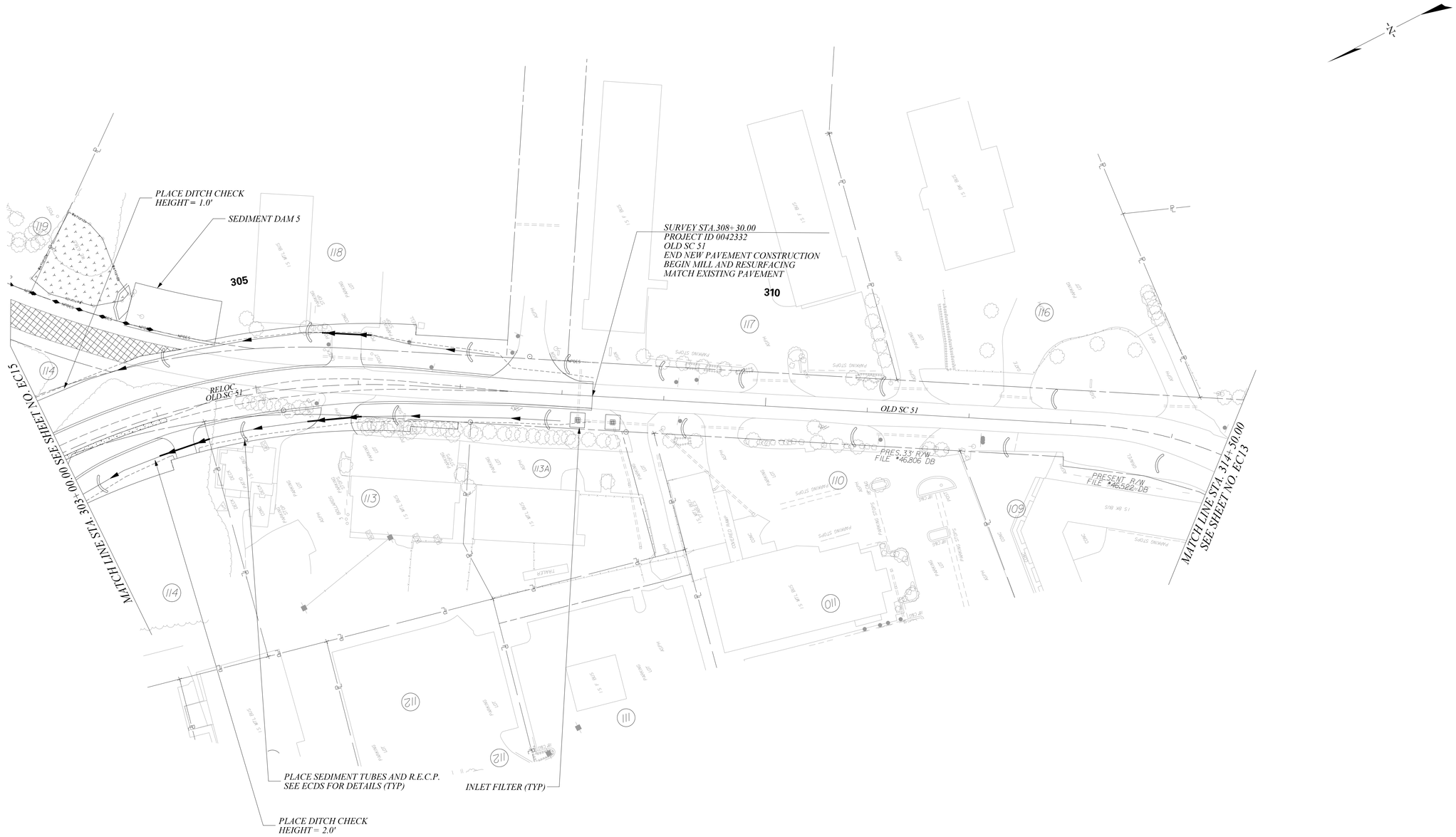
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	OLD SC 51	EC21



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
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50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

Registered Professional Engineer No. 21220
11/14/2023
PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 16

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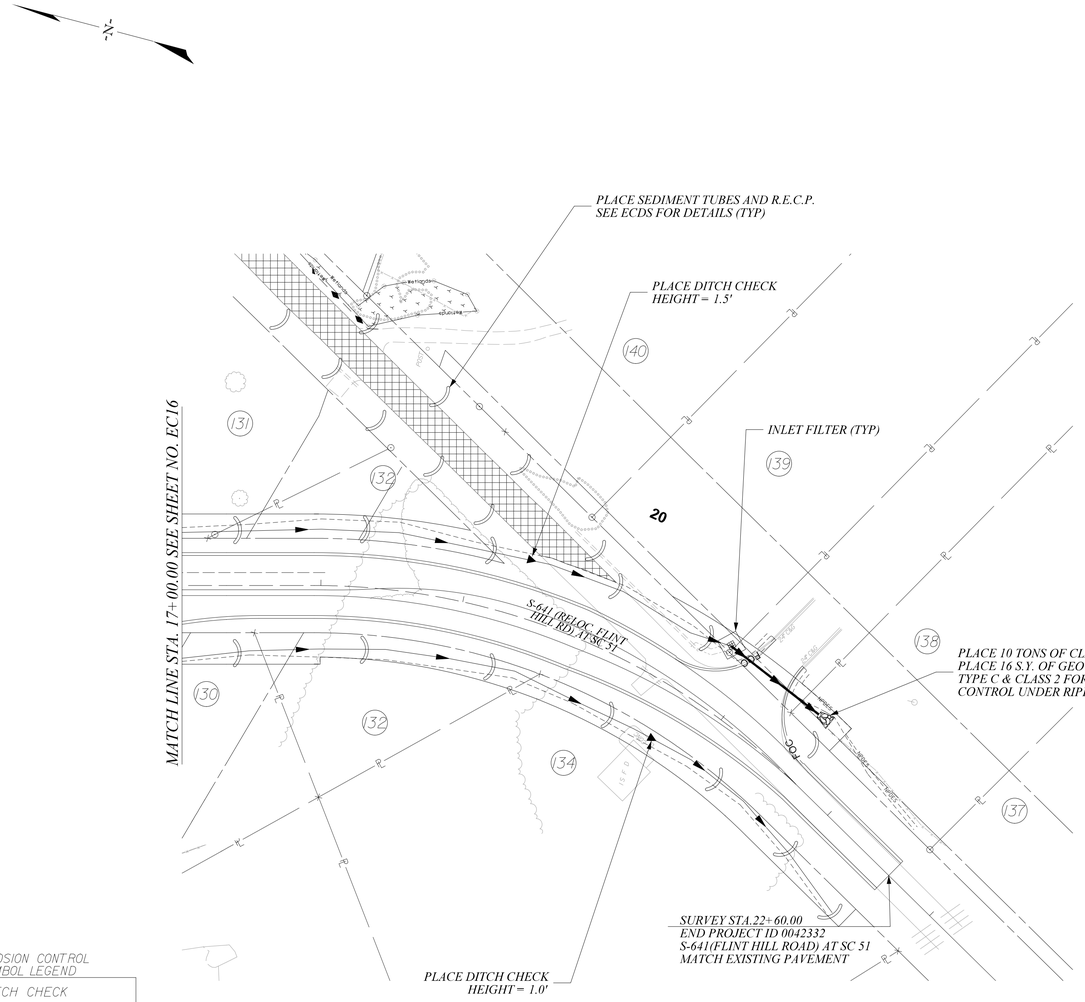
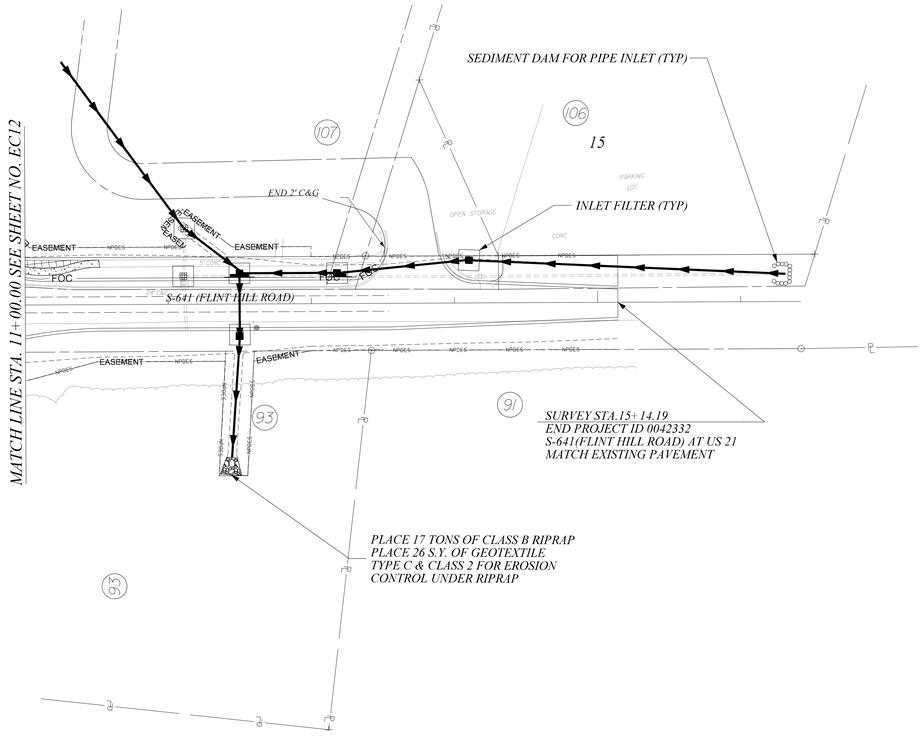
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-641	EC22





EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
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50 0 50 100
scale feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 5
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 21220 PROFESSIONAL ENGINEER — Docusigned by: Scott Paris Peters 89C8F7F912F8D467... — 11/14/2023 — SCOTT PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 17

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11/10/2023

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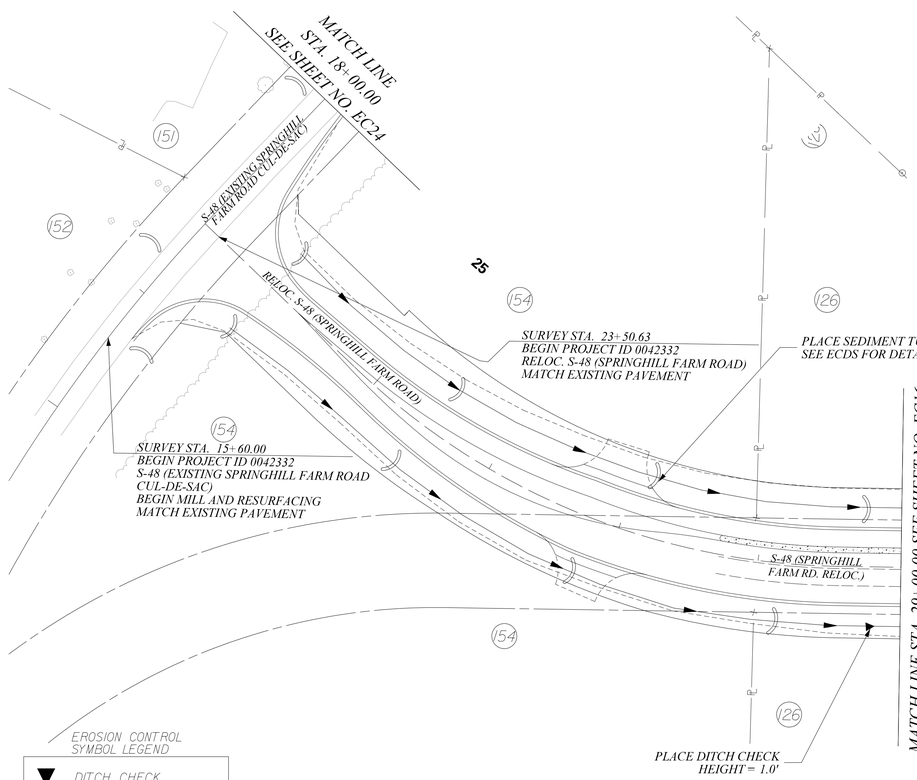
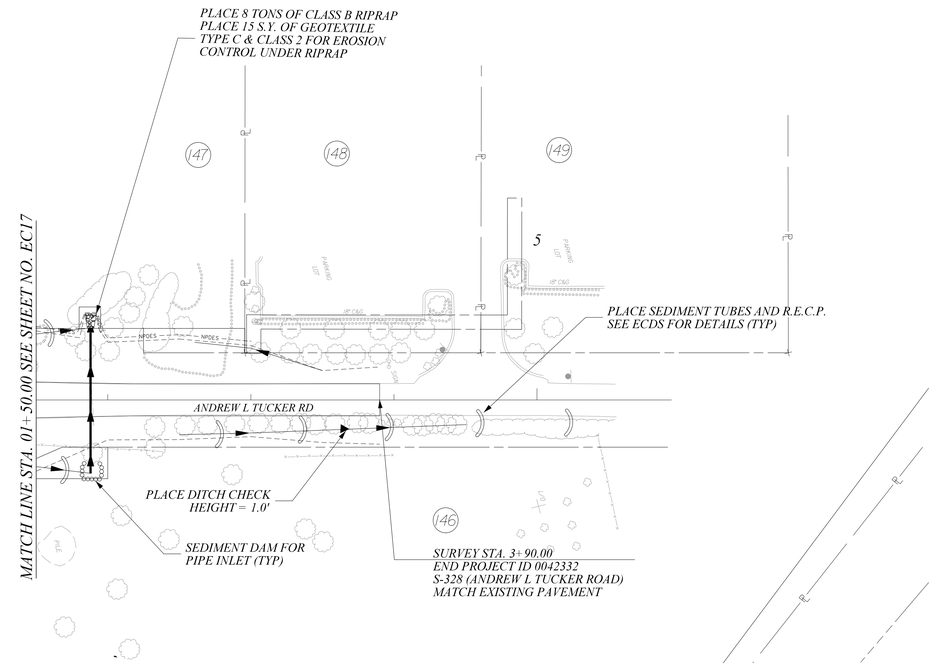
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004	S-48 S-328	EC23



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES — NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE



NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
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5. PLACE SILT FENCE AS PER SCDOT INSTRUCTIONAL BULLETIN NO. 2014-4.
6. USE DOUBLE ROWS OF SILT FENCE WHEN ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS.
7. TEMPORARY BARRIER FENCE SHALL BE PLACED ADJACENT TO WETLANDS IN ACCORDANCE TO SCDOT SUPPLEMENTAL SPECIFICATIONS, SECTION 806: TEMPORARY BARRIER FENCE FOR ENVIRONMENTAL BOUNDARY, OR AS DIRECTED BY THE RCE.

scale 50 0 50 100 feet

STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA — STV INCORPORATED No. C03318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 21220 — PARIS PETERS — 1/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 18

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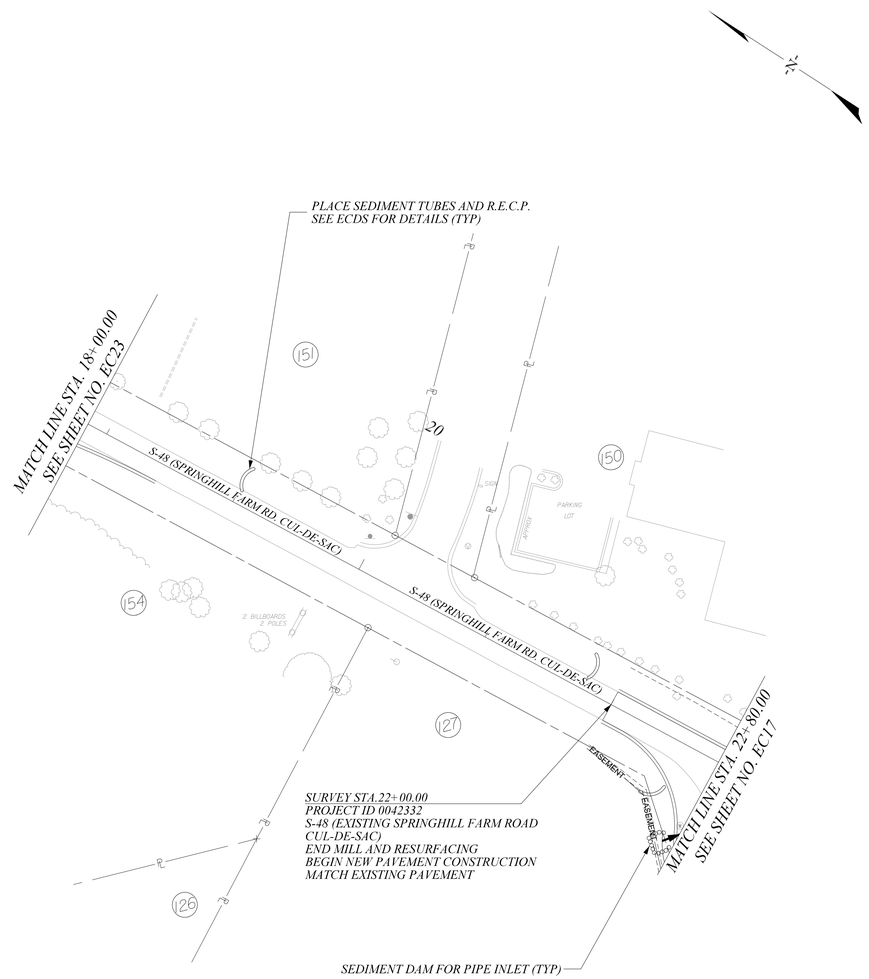
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	S-48	EC24



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

1. USE TYPE D1 INLET STRUCTURE FILTERS FOR ALL DROP INLETS.
2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

Designed by: STV
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
1/11/2023
LUCY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 19

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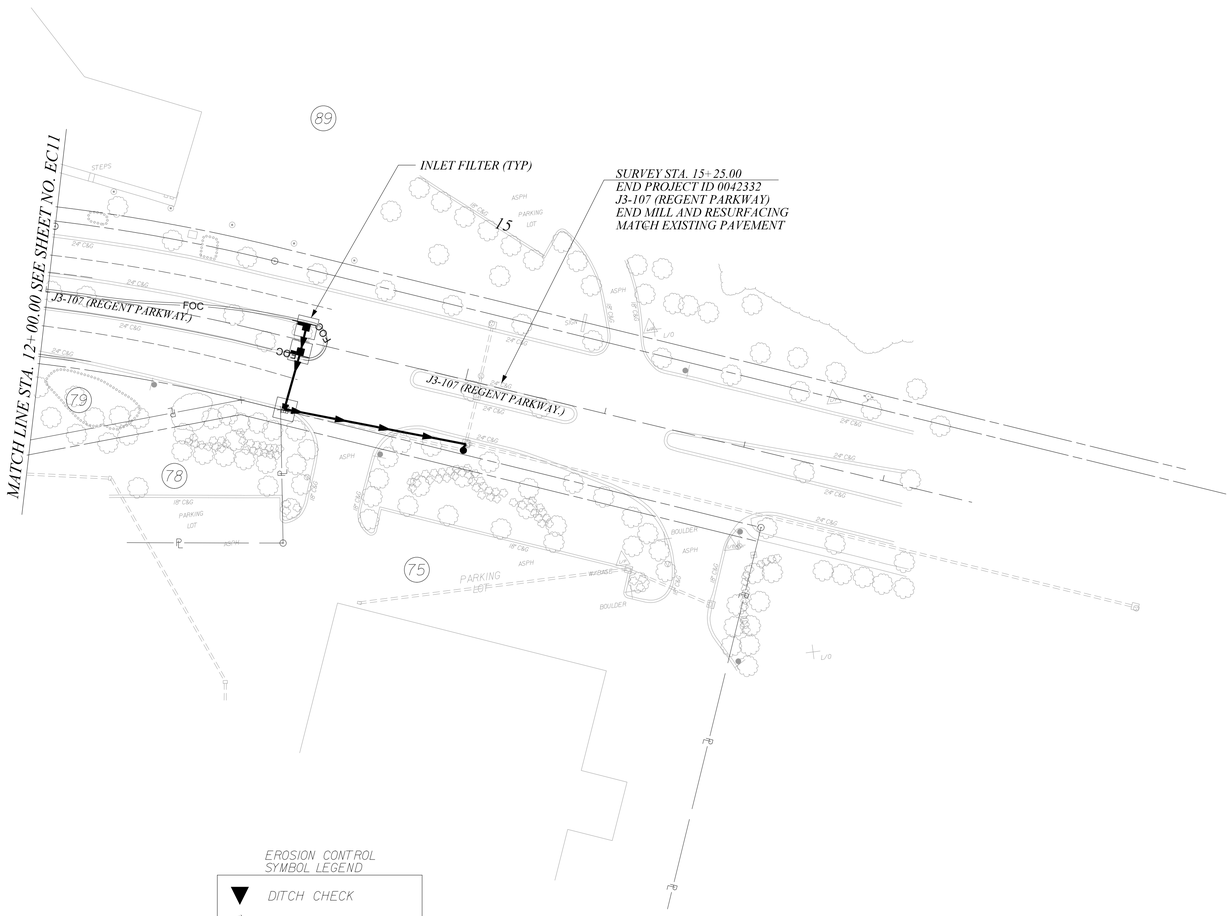
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	J3-107	EC25


MATCH LINE STA. 12+00.00 SEE SHEET NO. EC11
INLET FILTER (TYP)
SURVEY STA. 15+25.00
END PROJECT ID 0042332
J3-107 (REGENT PARKWAY)
END MILL AND RESURFACING
MATCH EXISTING PAVEMENT
J3-107 (REGENT PARKWAY)
FOC
FOC
89
79
78
75
15
STEPS
ASPH
PARKING LOT
BOULDER
BOULDER
24" CMP
18" CMP
18" CMP
24" CMP
24" CMP
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24" CMP
24" CMP
24" CMP
18" CMP
18" CMP
18

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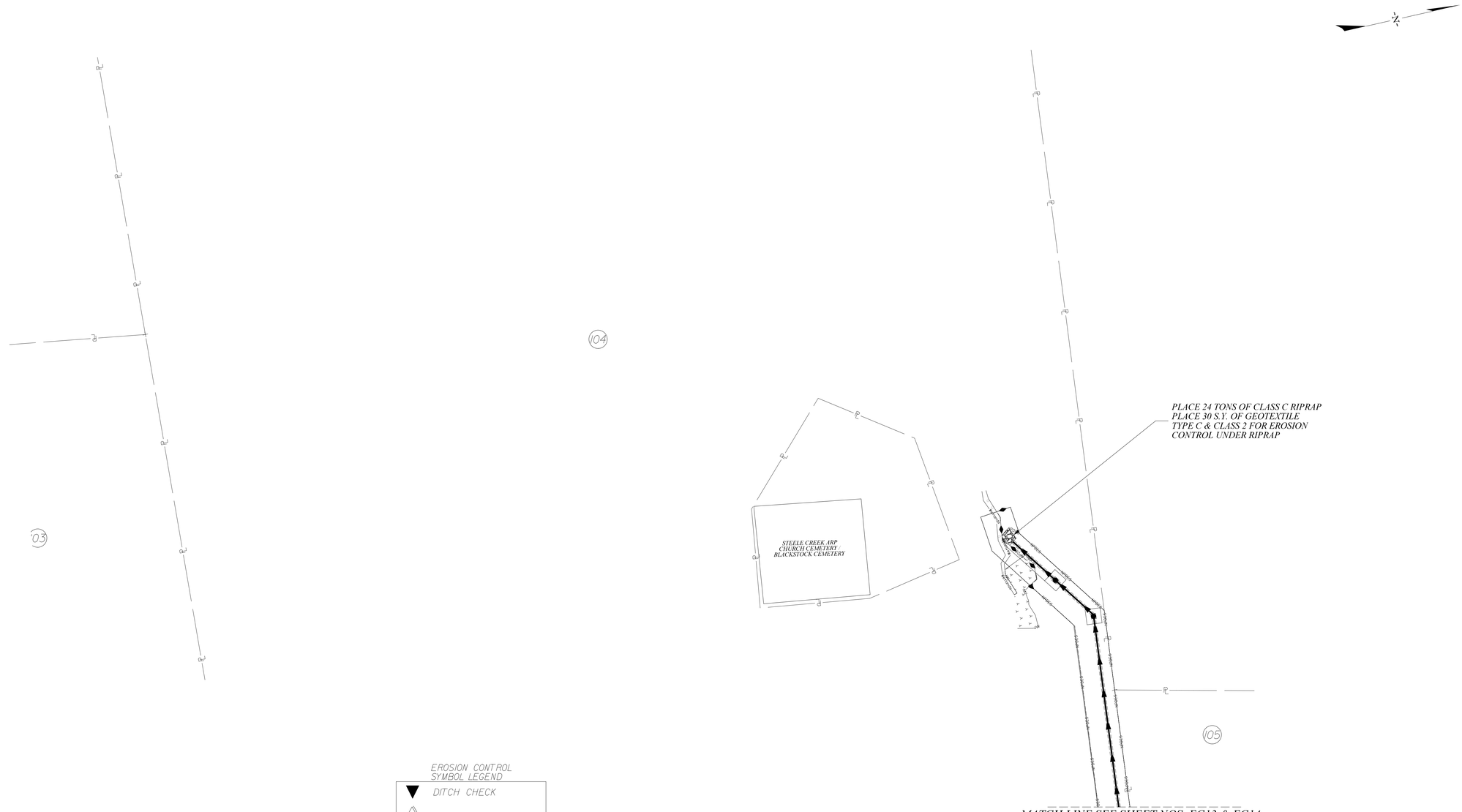
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	EC31



EROSION CONTROL SYMBOL LEGEND

- DITCH CHECK
- SEDIMENT DAM
- TEMPORARY BARRIER FENCE
- NPDES LINE & (SILT FENCE) AS PER SCDOT
- PIPE INLET SEDIMENT DAM
- INLET PROTECTION
- SEDIMENT TUBE
- RIPRAP
- LIMITS OF DISTURBANCE

50 0 50 100
scale feet

NOTES:

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2. USE TYPE D2 INLET STRUCTURE FILTERS FOR ALL DROP INLETS IN SAGS.
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 21220 PARIS PETERS 11/11/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL PLANS

SCALE 1" = 50' RTE. US 21 DWG. NO. 21

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004		EC32

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
US 21	22+45	LT	STEELE CREEK	CATAWBA RIVER
US 21	34+56	LT	STEELE CREEK	CATAWBA RIVER
US 21	39+49	LT	STEELE CREEK	CATAWBA RIVER
US 21	66+89	LT	STEELE CREEK	CATAWBA RIVER
US 21	67+96	LT	STEELE CREEK	CATAWBA RIVER
US 21	73+45	LT	STEELE CREEK	CATAWBA RIVER
US 21	116+69	LT	STEELE CREEK	CATAWBA RIVER
US 21	122+69	LT	STEELE CREEK	CATAWBA RIVER
US 21	123+75	LT	STEELE CREEK	CATAWBA RIVER
US 21	34+07	RT	STEELE CREEK	CATAWBA RIVER
US 21	41+34	RT	STEELE CREEK	CATAWBA RIVER
US 21	42+54	RT	STEELE CREEK	CATAWBA RIVER
US 21	101+25	RT	SUGAR CREEK	CATAWBA RIVER
US 21 BUSSINESS	22+04	RT	STEELE CREEK	CATAWBA RIVER
OLDNACL	17+23	RT	SUGAR CREEK	CATAWBA RIVER
OLDNACL	13+25	LT	STEELE CREEK	CATAWBA RIVER
FLINTHILL	12+43	RT	SUGAR CREEK	CATAWBA RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
US 21	10+00	137+14	FINE	BLUE RIDGE
SC 51	295+62	342+91	FINE	BLUE RIDGE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US 21	15+00	17+50	LT	2.5		2		0.155
US 21	17+50	21+00	LT	5		2		0.435
US 21	21+00	23+50	LT	19		2		1.180
US 21	23+50	31+50	LT	3		2		0.596
US 21	31+50	36+00	LT	17.5		2		1.957
US 21	36+00	37+50	LT	10		2		0.373
US 21	37+50	42+00	LT	16		2		1.789
US21	44+00	45+00	LT	2		2		0.050
US21	45+00	46+00	LT	16			2.0	0.398
US21	46+00	50+00	LT	28			2.0	2.783
US21	50+00	53+50	LT	22			2.0	1.913
US21	54+00	57+50	LT	7		2		0.609
US21	58+00	59+50	LT	3		2		0.112
US21	60+00	60+50	LT	2		2		0.025
US21	64+50	66+00	LT	3.5		2		0.130
							TOTAL	**12.503**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
FLINT	19+00	19+50	LT	2.3	6	2		1	0.106		
FLINT	19+50	20+77	LT	2.9	4	2		1	0.260		
FLINT	21+00	22+00	RT	1.3	6	2		1	0.120		
FLINT	22+00	22+50	RT	2.1	4	2		1	0.074		
US21	18+20	18+50	LT	1	4	2		1	0.021		
FERNFOREST	10+50	11+00	RT	1.2	4	2		1	0.042		
US21	21+00	21+50	LT	1	2	2		2		0.025	
LAKESBLVD	11+00	12+31	RT	0.5	6	2		1	0.061		
BAXTER	14+00	14+21	LT	1	4	2		1	0.015		
GARRISON	11+00	12+00	LT	1	6	2		1	0.092		
GOLDHIILL	14+11	14+50	LT	0.6	4	2		1	0.017		
GOLDHIILL	14+27	15+00	RT	1	4	2		1	0.052		
GOLDHILL	16+00	16+50	RT	1	4	2		1	0.035		
OLD NACL	18+00	19+50	LT	0.7	4	2		1	0.074		
LAKESHORE	13+00	13+50	LT	0.4	4	2		1	0.014		
								TOTALS	**0.984**	**0.025**	

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
US 21	15+00	15+25	LT	10	25	20	
US 21	15+88	17+62	LT	10	80	40	
US 21	18+02	18+42	LT	10	75	20	
US 21	19+19	19+95	LT	10	150	20	
US 21	20+25	21+96	LT	10	25	80	
US 21	24+13	27+13	LT	10	150	30	
US 21	28+79	31+42	LT	10	150	30	
US21	41+00	42+00	LT	10	25	40	
US21	43+50	44+25	LT	10	25	40	
US21	53+95	54+25	LT	10	30	20	
US21	54+97	55+27	LT	10	30	20	
US21	56+12	57+33	LT	10	30	50	
US21	58+00	59+50	LT	10	75	30	
US21	105+50	107+75	LT	10	120	20	
US21	110+00	111+50	LT	10	150	10	
US 21	19+18	20+11	RT	10	100	20	
US21	38+00	38+50	RT	10	50	20	
US21	40+11	41+34	RT	10	25	60	
US21	50+86	53+86	RT	10	150	30	
US21	64+00	64+42	RT	10	50	10	
US21	65+46	66+50	RT	10	30	40	
US21	66+87	67+13	RT	10	25	20	
US21	134+28	135+50	RT	10	150	20	
AMELIA	10+90	11+48	LT	10	30	30	
FERNFOREST	10+54	10+72	RT	10	30	10	
FERNFOREST	10+94	11+20	RT	10	30	10	
LAKESHORE	13+00	13+50	LT	10	25	20	
EX-FOREST	11+16	12+75	LT	10	40	50	
OLD-NACL	10+50	13+28	RT	10	150	30	
OLD-NACL	13+66	14+40	RT	10	100	20	
OLD-NACL	15+42	17+00	RT	10	150	20	
OLD-NACL	17+44	20+20	RT	10	150	20	
OLD-NACL	15+45	16+95	LT	10	150	10	
EX-GOLDHILL	32+31	32+82	LT	10	50	30	
EX-GOLDHILL	33+86	35+23	RT	10	130	20	
EX-GOLDHILL	22+75	23+64	RT	10	90	10	
GOLDHILL-REALIGN	14+50	18+00	RT	10	60	70	
GOLDHILL-REALIGN	19+50	21+00	RT	10	150	20	
GOLDHILL-REALIGN	27+00	31+35	RT	10	150	40	
GOLDHILL-REALIGN	14+22	14+52	LT	10	25	20	
GOLDHILL-REALIGN	15+16	15+99	LT	10	60	20	
GOLDHILL-REALIGN	17+37	22+01	LT	10	150	40	
Baxter	14+22	14+40	LT	10	25	20	
GARRISONFARM	11+04	11+39	RT	10	25	20	
GARRISONFARM	11+22	11+50	LT	10	25	20	
Lakes BLVD	11+00	12+46	RT	10	25	60	
Lakes BLVD	10+84	11+62	LT	10	25	50	
TERRYS	11+47	11+97	RT	10	50	10	
					TOTAL	**1350FT**	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH
4	OLDUS21BUS	14+25	LT	DRAINED	120	4	4	3	12	4	B	284	0.75	N/A	N/A	N/A
5	OLDSC51	304+35	LT	DRAINED	90	15	4	3	12	4	B	307	0.75	N/A	N/A	N/A
6	SC 51	314+80	RT	DRAINED	175	20	3	3	14	7	B	506	0.75	N/A	N/A	N/A

9/28/2021
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

Docusigned by: Mary Paris Peters — 8BC8F7F912F6D467 — SOUTH CAROLINA No. 21220 — 10/4/2023 — MARY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	III49-004		EC33

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
ANDREW	01+95	LT	MCCULLOUGH BRANCH	CATAWBA RIVER
FLINT	23+05	RT	SUGAR CREEK	CATAWBA RIVER
EXIST. SPRINGHILL	23+53	LT	MCCULLOUGH BRANCH	CATAWBA RIVER
GOLDHILL REALIGN	23+92	LT	STEELE CREEK	CATAWBA RIVER
GOLDHILL REALIGN	14+07	LT	STEELE CREEK	CATAWBA RIVER
SC 51	316+33	RT	SUGAR CREEK	CATAWBA RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US21	66+00	68+00	LT	18		2		0.894
US-21	68+50	69+00	LT	1.5		2		0.019
US-21	69+00	70+00	LT	1		2		0.025
US-21	70+00	72+00	LT	5.5		2		0.273
US-21	72+50	74+50	LT	15		2		0.745
US-21	76+50	82+00	LT	2.5		2		0.342
US-21	84+00	85+50	LT	4			2.0	0.149
US-21	85+50	95+00	LT	3.75			2.0	0.885
US-21	96+50	107+50	LT	4.7		2		1.284
US-21	109+00	112+00	LT	4.7		2		0.350
US-21	113+50	128+00	LT	24		2		8.646
US-21	128+00	117+00	LT	2		2		0.547
US-21	117+50	118+50	LT	11		2		0.273
US-21	120+00	124+50	LT	25		2		2.795
US-21	125+00	134+00	LT	3		2		0.671
							TOTAL	17.899

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
ANDREW	00+54	01+82	LT	10	100	20	
ANDREW	01+06	01+72	RT	10	150	20	
ANDREW	02+49	05+23	RT	10	60	50	
US21 (Tail Ditch)	135+20	135+30	LT	10	50	20	
US21 (Tail Ditch)	134+32	135+49	RT	10	150	20	
SC51	306+99	307+72	LT	10	50	20	
SC51	308+61	309+62	LT	10	90	20	
SC51	310+36	310+99	LT	10	150	10	
SC51	336+88	340+00	LT	10	150	30	
SC51	303+41	308+75	RT	10	75	90	
SC51	308+95	310+25	RT	10	45	30	
FLINT2	16+70	22+50	RT	10	80	80	
FLINT2	16+67	21+53	LT	10	80	70	
EX-FLINT	15+10	19+71	LT	10	75	70	
EX-FLINT	14+86	16+94	RT	10	150	30	
EX-FLINT	16+94	19+04	RT	10	120	30	
EX-FLINT	10+94	11+40	LT	10	150	10	
EX-FLINT	11+21	11+91	RT	10	150	10	
EX-FLINT	16+36	18+82	RT	10	50	60	
SPRINGHILL	23+97	29+97	LT	10	150	50	
SPRINGHILL	24+00	30+00	RT	10	150	50	
EX-SPRINGHILL	14+82	16+06	RT	10	150	10	
EX-SPRINGHILL	22+57	22+76	RT	10	150	10	
EX-SPRINGHILL	16+33	17+81	LT	10	150	20	
EX-SPRINGHILL	18+98	19+89	LT	10	150	10	
EX-SPRINGHILL	20+86	23+50	LT	10	150	20	
EX-SPRINGHILL	23+90	24+47	LT	10	150	10	
					TOTAL	870FT	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

9/28/2021
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED No. C03318

SOUTH CAROLINA — No. 21220 — 11/1/2023 — HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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3			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC34

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US 21	15+50	24+50	RT	1		2		0.224
US 21	24+50	27+50	RT	3		2		0.224
US-21	29+00	30+00	RT	1.75		2		0.043
US-21	30+00	31+00	RT	23			2.0	0.571
US-21	31+00	33+00	RT	1.5		2		0.075
US-21	33+00	35+00	RT	17		2		0.845
US-21	35+00	35+50	RT	7.5		2		0.093
US-21	36+50	39+00	RT	1.8		2		0.112
US-21	40+00	45+00	RT	17.8		2		2.211
US-21	45+00	45+50	RT	4		2		0.050
US-21	46+50	49+00	RT	2.4		2		0.149
US-21	49+00	55+00	RT	8.7		2		1.297
US-21	55+00	57+00	RT	11.5		2		0.571
US-21	58+00	59+00	RT	5		2		0.124
US-21	59+00	62+00	RT	2.5		2		0.186
							TOTAL	6.775

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	0FT

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

9/28/2021
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SOUTH CAROLINA — No. 21220 — 11/1/2023 — HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC35

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US-21	64+00	67+50	RT	8		2		0.696
US-21	67+50	78+00	RT	4.2		2		1.096
US-21	78+00	80+00	RT	9.5		2		0.472
US-21	80+00	82+00	RT	4.75		2		0.236
US-21	83+50	89+00	RT	5		2		0.683
US-21	91+00	95+50	RT	1.75		2		0.196
US-21	95+50	97+00	RT	4.3		2		0.160
US-21	98+00	107+50	RT	5.75		2		1.357
US-21	109+50	116+00	RT	1.6		2		0.258
US-21	116+50	122+00	RT	6.75		2		0.922
US-21	122+50	124+50	RT	10		2		0.497
US-21	124+50	128+50	RT	3.6		2		0.358
US-21	130+00	130+50	RT	1		2		0.012
OLD SC-51	302+50	303+00	LT	2.2		4		0.050
OLD SC-51	303+00	307+50	LT	3.75		4	2.0	1.192
							TOTAL	**8.186**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
					TOTAL	0FT	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

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SOUTH CAROLINA No. 21220 11/14/2023 AMY PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004		EC36

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION	SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
OLD SC-51	307+50	308+15	LT	1		6		0.044
OLD SC-51	308+15	308+30	LT	1		4		0.007
OLD SC-51	315+50	316+00	LT	2		6		0.068
OLD SC-51	302+50	303+00	RT	1		2		0.012
OLD SC-51	303+00	308+50	RT	1.4		4	2.0	0.544
OLD SC-51	315+50	316+00	RT	1.2		6		0.041
OLD SC-51	316+00	316+16	RT	1		50		0.089
SPRINGHILL	23+51	30+00	LT	1		6	2.0	0.600
SPRINGHILL	23+51	30+00	LT	2.1			2.0	0.339
SPRINGHILL	23+51	30+50	RT	1		6	2.0	0.646
SPRINGHILL	28+50	30+20	RT	1.2			2.0	0.051
FLINT2	16+51	19+00	LT	2.1		6	2.0	0.484
FLINT2	20+77	21+00	LT	1.9		4	2.0	0.031
FLINT2	21+00	22+00	LT	3.1		6		0.210
FLINT2	22+00	23+00	LT	3.1		4		0.142
							TOTAL	3.306

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
					TOTAL	0FT	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21220 11/11/2023 LUCY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC37

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	OUTE/ROA NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
FLINT2	16+50	17+00	RT	1.5		4		0.034
FLINT2	17+00	21+00	RT	1.5		6	2.0	0.555
FERN FOREST	11+00	11+50	RT	1		6		0.034
FERN FOREST	11+00	12+00	LT	1		4		0.046
LAKESBLVD	11+00	12+00	LT	1		6	2.0	0.097
TERRYS	11+50	12+00	LT	2		4	1.0	0.062
TERRYS	11+50	12+00	RT	2		4	1.0	0.062
GARRISONFARM	11+00	12+00	RT	1.5		6	2.0	0.139
GARRISONFARM	11+00	11+50	LT	1.5		6	2.0	0.069
AMELIA	10+50	12+00	LT	1		4	2.0	0.106
AMELIA	10+50	12+00	LT	2			2.0	0.075
AMELIA	10+50	11+80	RT	1		6		0.088
AMELIA	11+80	12+00	RT	1		12		0.027
BAXTER	14+21	14+50	LT	3		4	2.0	0.061
BAXTER	14+50	14+79	LT	1.8		4	1.0	0.029
							TOTAL	1.482

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	0FT

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED No. C03318

SOUTH CAROLINA — No. 21220 — 11/1/2023 — HOLLY PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004		EC38

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
BAXTER	14+00	14+50	RT	2		6		0.068
BAXTER	14+50	14+79	RT	2.5		4		0.033
ANDREW	00+50	01+50	LT	0.75		2	2.0	0.037
ANDREW	00+50	01+50	LT	3.75		2		0.093
ANDREW	01+50	02+00	LT	0.75		4	2.0	0.026
ANDREW	01+50	02+50	LT	3		4		0.137
ANDREW	02+50	03+00	LT	2.5		6		0.084
ANDREW	03+00	03+50	LT	1		4	2.0	0.035
ANDREW	03+00	03+50	LT	2.2		4		0.050
ANDREW	03+50	03+90	LT	1		4		0.018
ANDREW	00+50	01+00	RT	2		6		0.068
ANDREW	01+00	01+50	RT	0.75		2	2.0	0.019
ANDREW	01+00	01+50	RT	2.8		2		0.035
ANDREW	01+50	02+00	RT	1		6	2.0	0.046
ANDREW	01+50	02+50	RT	2		6		0.135
							TOTAL	**0.886**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
					TOTAL	0FT	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21220 11/11/2023 LUCY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC39

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
ANDREW	02+50	03+90	RT	1.3		6	2.0	0.168
ANDREW	03+50	03+90	RT	1.5			2.0	0.015
GARRISON	11+00	12+00	RT	1.5		6	2.0	0.139
GOLDHILL-REALIGN	14+00	14+50	LT	2		4		0.046
GOLDHILL-REALIGN	14+50	19+00	LT	1.85		4	2.0	0.588
GOLDHILL-REALIGN	14+50	19+00	LT	1.1		4		0.227
GOLDHILL-REALIGN	19+00	22+50	LT	5		4	2.0	1.237
GOLDHILL-REALIGN	22+50	23+00	LT	10		4		0.229
GOLDHILL-REALIGN	23+00	25+50	LT	25		2		1.553
GOLDHILL-REALIGN	25+50	26+50	LT	10		4		0.458
GOLDHILL-REALIGN	26+50	27+00	LT	2.9		6		0.098
GOLDHILL-REALIGN	27+00	28+50	LT	10		4		0.687
GOLDHILL-REALIGN	28+50	32+00	LT	3.6		4	2.0	0.890
GOLDHILL-REALIGN	28+50	32+00	LT	5.2			2.0	0.452
GOLDHILL-REALIGN	32+00	32+39	LT	5.5		2		0.053
							TOTAL	6.840

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	0FT

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

9/28/2021
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

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SOUTH CAROLINA No. 21220 REGISTERED PROFESSIONAL ENGINEER
1/11/2023
HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC40

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
GOLDHILL-REALIGN	15+50	16+00	RT	3		4	2.0	0.106
GOLDHILL-REALIGN	16+50	19+00	RT	4		4		0.458
GOLDHILL-REALIGN	20+50	22+50	RT	3			2.0	0.149
GOLDHILL-REALIGN	23+00	23+50	RT	3.1		6		0.105
GOLDHILL-REALIGN	23+50	24+00	RT	6.7		4		0.153
GOLDHILL-REALIGN	24+00	26+00	RT	19.5		2		0.969
GOLDHILL-REALIGN	26+00	26+50	RT	5		4		0.115
GOLDHILL-REALIGN	26+50	27+00	RT	1		6		0.034
GOLDHILL-REALIGN	27+00	32+00	RT	4		4	2.0	1.413
GOLDHILL-REALIGN	28+50	32+00	RT	9			2.0	0.783
GOLDHILL-REALIGN	32+00	32+39	RT	7.1		2		0.069
EX FLINT	10+00	11+50	LT	1		4	2.0	0.106
EX FLINT	11+50	12+50	LT	1		2	6.0	0.092
OLD US-21 BUS	11+00	15+00	LT	5		6		1.352
OLD US-21 BUS	16+00	17+00	LT	5.7		4		0.261
							TOTAL	**6.165**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	0FT

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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STV Incorporated
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454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Docusigned by: Holly Paris Peters BBC8F7512F6D467... SOUTH CAROLINA No. 21220 1/11/2023 HOLLY PARIS PETERS

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC4I

EROSION CONTROL DATA SHEET

SCDOT South Carolina Department of Transportation

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
OLD US-21 BUS	17+00	20+50	LT	4.9		6		1.159
OLD US-21 BUS	11+00	15+00	RT	2.2		6		0.595
OLD US-21 BUS	16+00	21+92	RT	4		6		1.600
OLD US-21 BUS	21+92	24+80	RT	1.9		2	2	0.272
OLD NACL	10+50	11+00	LT	2.1		4		0.048
OLD NACL	11+00	13+50	LT	1.9		6		0.321
OLD NACL	13+50	14+50	LT	0.75		6	2	0.069
OLD NACL	19+50	19+98	LT	1.7		4	2	0.058
OLD NACL	10+50	11+00	RT	2.5		4		0.057
OLD NACL	11+00	12+00	RT	2.6		6		0.176
OLD NACL	12+00	13+00	RT	3.2		6	2	0.296
OLD NACL	13+00	13+50	RT	2.8		4	2	0.099
OLD NACL	13+50	13+97	RT	1		6	2	0.043
OLD NACL	13+97	14+50	RT	1.6		4	2	0.060
OLD NACL	18+00	19+98	RT	2.55		4	2	0.357
							TOTAL	**5.210**

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
					TOTAL	0FT	

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

9/28/2021
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED No. C03318

Document Signed by: Holly Paris Peters No. 21220 10/4/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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4			
3			
2			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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10/10/2023

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004		EC42

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	0042332	US21	

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
US21 (Tail Ditch)	00+00	00+77	LT	3		4	2	0.163
LAKESHORE	13+00	13+50	LT	3.76			2	0.047
LAKESHORE	13+50	14+13	LT	1.3		6	2	0.076
LAKESHORE	12+70	13+00	RT	1		6		0.020
							TOTAL	0.306

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	0FT

SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

9/28/2021
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STV Incorporated
ROCK HILL BUSINESS TECHNOLOGY CENTER, BTC 517
454 S. ANDERSON ROAD, SUITE 3
ROCK HILL, SOUTH CAROLINA 29730

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED No. C03318

SOUTH CAROLINA — No. 21220 — 11/1/2023 — HOLLY PARIS PETERS

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

EROSION CONTROL DATA SHEETS

SCALE 1" = 50' RTE. DWG. NO.

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11/10/2023

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	II49-004	US 21 SC 51	UI

US 21 NORTH PHASE 1 AND SC 51 FROM SC 460 TO THE SC/NC STATE LINE ROAD WIDENING PID 0042332 YORK COUNTY, SC

UTILITY RELOCATION PLANS

COMPANY	CONTACT	PHONE NO.
POWER - E1 York Electric Corporation	Wes Dover PO Box 150 1385 A. Alexander Love Hwy York, SC 29745 Wes.Dover@yorkelectric.net	803-628-5564 803-627-0824
POWER - E2 (TRANS) Duke Energy	Stephen Lord 526 South Church St. Charlotte, NC 28202 Stephen.Lord@duke-energy.com	704-812-2316
POWER - E2 (Distribution) Duke Energy NO CONFLICT	Stephen Lord 526 South Church St. Charlotte, NC 28202 Stephen.Lord@duke-energy.com	704-812-2316
POWER - E3 (Distribution) Central Electric Power Cooperative NO CONFLICT	Jimmy Tindal 20 Cooperative Way Columbia, SC 29210 jtindal@cepci.org	803-255-8810 803-606-4581
TELECOM - T1 Comporium	Eric Kirkland 471-A Lakeshore Pkwy Rock Hill, SC 29730 eric.kirkland@comporium.com	803-326-6109
TELECOM - T2 Duke Net Legacy (Charter)	Matt McClain 3140 West Arrowood Road Charlotte, NC 28273 matt.mcclain@charter.com	704-378-2194 980-428-5092
TELECOM - T3 AT&T No Conflict for Distribution	Jamie Riggins 100 Belton Drive Spartanburg, SC 29301	864-574-8608
TELECOM - T4 Level 3 Communications (Lumen)	Wanita Brenes 227 Robeson Street Fayetteville NC 28301 wanita.brenes@lumen.com	910-551-8838
TELECOM - T5 Zayo Fiber	Brandon Carter 125 North Myers Street Charlotte, NC 28202 Brandon.Carter@zayo.com	704-779-9322
TELECOM - T6 MCI Communications (Verizon)	Corey Thomas corey.thomas@verizon.com	501-297-9085
TELECOM - T7 Windstream Commuications	Daniel Honeycutt Daniel.Honeycutt@windstream.com	704-849-1358 704-579-7897

COMPANY	CONTACT	PHONE NO.
TELECOM - TV1 Comporium	Eric Kirkland 471-A Lakeshore Pkwy Rock Hill, SC 29730 eric.kirkland@comporium.com	803-326-6109
TELECOM - TV2 Time Warner Communications	Matt McClain 3140 West Arrowood Road Charlotte, NC 28273 matt.mcclain@charter.com	704-378-2194 980-428-5092
GAS - G1 York County Natural Gas	Eric Cellucci 979 W. Main st. Rock Hill, SC 29731 eric.cellucci@ycnga.com	803-323-5392 803-627-4410
WATER - W1 York County Water and Sewer	David Hughes (Bert Becton STV Designer) 6 South Congress St. York, SC 29745	803-628-3211
Sewer - S1 York County Water and Sewer	David Hughes (Bert Becton STV Designer) 6 South Congress St. York, SC 29745	803-628-3211
Water - W2 Fern Forest Water Company	Dottie Carter (Bert Becton STV Designer)	(803) 548-0398
TRAFFIC CONTROL - TF1 SCDOT	John Huskins 338 Robertsion Rd. West Rock Hill, SC 29730	803-324-3545 Ext. 25

INDEX OF SHEETS

DESCRIPTION	SUBTOTAL OF SHEETS
UTILITY REFERENCE SHEET	U1
UTILITY LEGEND SHEET	U2
UTILITY DATA SHEET	U3
UTILITY POLE DATA SHEET	U4A - U4D
UTILITY GENERAL NOTES	U5
UTILITY PLAN SHEETS	U6 - U30 (U26-U29 Omitted)
TOTAL	29

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

500 0 500 1000
scale feet

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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5			
4			
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

UTILITY REFERENCE SHEET

SCALE N/A RTE. US 21 DWG. NO. UI

SUE LEGEND AND NOTES

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	II49-004	US 21 SC 51	U2

ELECTRIC SYMBOLS

SYM	ABV	DESCRIPTION
	ETM	ELECTRICAL TRANSFORMER
E	EMH	ELECTRICAL MAN HOLE
E	EHH	ELECTRICAL HAND HOLE
E	EPP	ELECTRIC PEDESTAL
E	EBX	ELECTRIC BOX
	ESG	ELECTRIC SWITCH GEAR BOX
E	EVT	ELECTRIC VAULT
	EGL	GROUND / LANDSCAPE LIGHT
B	EAB	ELECTRIC AIR BRAKE
	ERO	ELECTRIC RESIDENTAL OUTLET

POLE SYMBOLS

SYM	ABV	DESCRIPTION
	PSP	SIGNIFICANT POLE (STEEL, CONCRETE, ETC)
	PP	ELECTRIC, COMBINATION POLE
	PMP	METER POLE
	PLT	TRANSMISSION LINE POLE
	PLP	AREA LIGHT POLE
	PTF	TRAFFIC SIGNAL POLE
	POP	OTHER USE POLE
	PCT	CELL PHONE TOWER
	PTP	TELEPHONE POLE
	PGP	GUY POLE

TRAFFIC CONTROL SYMBOLS

S	TFV	TRAFFIC SIGNAL CONTROL VAULT
S	TFHH	TRAFFIC CONTROL HAND HOLE
S	TFJ	TRAFFIC SIGNAL JUNCTION BOX

GAS SYMBOLS

SYM	ABV	DESCRIPTION
G	GM	GAS METER
G	GVC	GAS VALVE CAP
G	GMH	GAS MAN HOLE
GV	GVT	GAS VENT
GR	GR	GAS PRESSURE REGULATOR
GTP	GTP	GAS LINE TEST POINT
GTF	GTF	GAS LINE TAP FARM

MISC SYMBOLS

	MWP	UTILITY WITNESS POST
EOI	MOI	END OF INFORMATION
U	MUC	MISC / UNKNOWN VALVE CAP OR COVER
U	MPB	PAVED OR BURIED MANHOLE / CAP
e	MUE	UTILITY TERMINI / ENDS
	MTH	TEST HOLE

TELECOMMUNICATION SYMBOLS

SYM	ABV	DESCRIPTION
T	TB	TELEPHONE BOOTH
T	TVP	CABLE TV PEDESTAL
T	TLC	SUBSCRIBER LOOP CARRIER (aka SLICK)
T	TPP	TELEPHONE PEDESTAL
T	TMH	TELEPHONE MAN HOLE
F	TFOH	FIBER OPTIC HAND HOLE
T	THH	TELEPHONE HAND HOLE
C	TVHH	CABLE TV HAND HOLE
T	TBX	TELEPHONE BOX
X	TXB	UG / SPLICE - AG SPLICE BOX
	TRP	TELEPHONE REPEATER
C	TVB	CABLE TV BOX
T	TUV	UNDERGROUND TELEPHONE VAULT
T	UTP	UNDERGROUND TELEPHONE PEDESTAL
C	UTV	UNDERGROUND CABLE TV PEDESTAL

WATER SYMBOLS

SYM	ABV	DESCRIPTION
W	WM	WATER METER
V	WV	WATER VALVE
M	WMW	WATER MONITORING WELL
	WFH	FIRE HYDRANT
W	WMH	WATER MAN HOLE
A	WAR	WATER AIR RELEASE VALVE
W	WVB	WATER VALVE BOX
F	WFC	FIRE DEPARTMENT CONNECTION
P	WBP	WATER BACKFLOW PREVENTER
B	WBO	WATER BLOW OFF VALVE
W	WWH	WELL HOUSE
P	WPV	POST INDICATOR VALVE

SEWER SYMBOLS

SYM	ABV	DESCRIPTION
	SCO	SEWER CLEAN OUT
S	SMH	SEWER MAN HOLE
R	SAR	SEWER AIR RELEASE VALVE
S	SST	SEWER STEP TANK
V	SCV	SEWER CHECK VALVE BOX
G	SGP	SEWER GRINDER / PUMP STATION
S	SSV	SEWER VALVE
L	SLS	SEWER LIFT STATION

NONPOTTABLE WATER SYMBOLS

I	ICV	IRRIGATION CONTROL VALVE
I	ICB	IRRIGATION CONTROL BOX
	IRH	IRRIGATION / SPRINKLER HEAD

COMBINATION LINE DEPICTION CODES

SHOW COMBINED LEVEL C & D SUE WILL INCLUDE THE FOLLOWING LEVEL QUALITY CODES:

LINE SHOWN DEPICTS QUALITY LEVEL C <C>

<C> T1

LINE SHOWN DEPICTS QUALITY LEVEL D <D>

<D> T1

MULTIPLE SUE OWNERS CAN BE DEPICTED OWNERSHIP WITH THE FOLLOWING CODES:

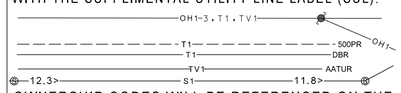
(A) UTILITY OWNER "X"

<C> (A) T1

(B) UTILITY OWNER "Y"

<D> T1 (B)

UTILITY LINES THAT REQUIRE MORE DETAILED INFORMATION ON THE PLAN SHEET CAN BE LABELED WITH THE SUPPLIMENTAL UTILITY LINE LABEL (SUL):



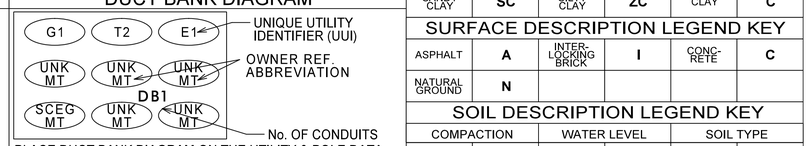
OWNERSHIP CODES WILL BE REFERENCED ON THE TITLE/OWNER SHEET AND THE UTILITY & POLE DATA SHEET.

SEWER MANHOLE NUMBERS (SMN)

S001 (S) SANITARY SEWER MANHOLE

DESIGNATE EACH SANITARY SEWER MANHOLE WITH A SEWER MANHOLE NUMBER (SMN). REFERENCE THIS SMN ON THE UTILITY DATA SHEET AND LIST ELEVATIONS.

DUCT BANK DIAGRAM



PLACE DUCT BANK DIAGRAM ON THE UTILITY & POLE DATA SHEET BELOW THE UTILITY & POLE DATA CHART. NOTE THE UUI OF THE DUCT BANK ON THE DIAGRAM. DEPICT THE CORRECT NUMBER OF CONDUITS IN THE DUCT AND THE USAGE OF EACH. MARK EMPTIES (IF KNOWN) WITH OWNER REFERENCE ABBREVIATION AND "MT".

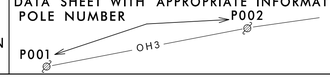
UTILITY INFORMATION TAGS (UIT)

WHEN UTILITY APPURTENANCES NEED DESCRIBING, PLACE A UIT NEXT TO THE CELL OR OUTLINED AREA. PLACE THE INFORMATION ON THE UTILITY DATA SHEET. DESIGNATE THE UTILITY BY THE OWNER NUMBER AND "T001" CODE IN THE "UTILITY" COLUMN. (IE - T2 T001).

(X) T001

UTILITY POLE ID NUMBER (UPIN)

TAG EACH UTILITY POLE WITH A UTILITY POLE ID NUMBER (UPIN) STARTING AT THE BEGINNING STATION. REFERENCE UPIN ON THE UTILITY & POLE DATA SHEET WITH APPROPRIATE INFORMATION.



UTILITY INFORMATION ABBERVIATIONS

EOI	END OF INFORMATION
EORI	END OF RECORDED INFORMATION
AATUR	UTILITY ABANDONED ACCORDING TO UTILITY RECORDS
AATFI	UTILITY ABANDONED ACCORDING TO FIELD INSPECTION
EATUR	EMPTY ACCORDING TO UTILITY RECORDS
NAP	NO ASSOCIATED PIPING FOUND FROM STRUCTURE
NAC	NO ASSOCIATED CABLES FOUND FROM STRUCTURE
DBR	DIRECT BURIED
DATFI	DEPICTED ACCORDING TO FIELD INSPECTION
EATFI	EMPTY ACCORDING TO FIELD INSPECTION
PR	PAIR
MT	EMPTY
CAP	CAPACITY
GR	GROUND

MATERIAL ABBREVIATIONS

C	COPPER
DI	DUCTILE IRON
S	STEEL
P	PLASTIC
FO	FIBER OPTIC
CI	CAST IRON
S	STEEL
CO	CONCRETE
PV	PVC
VY	VYLON
TC	TERRA COTTA
SWC	STEEL WRAPPED COATED
AC	ASBESTOS CEMENT
TF	TRAFFIC SIGNAL CABLE
GW	GUY WIRE
CNT	CONDUIT

GENERAL ABBREVIATIONS

E	ELECTRIC (POWER)
W	UNDERGROUND WATER
G	UNDERGROUND GAS
PUPS	PALMETTO UTILIY PROTECTION SERVICES
T	TELEPHONE, TELECOMMUNICATION
TV, C	CABLE TELEVISION
FO	FIBER OPTIC
S	SANITARY SEWER
FS	FORCED SANITARY SEWER, FORCE MAIN
DB	DUCT BANK
TF	TRAFFIC CONTROL UTILITY
UNK	UNKNOWN UTILITY
HP	HYDROGEN PEROXIDE
ST	STEAM LINE
F	FUEL / PETROLEUM LINE
R	RECLAIMED WATER / SLURRY LINE
I	IRRIGATION LINE
DB	DUCT BANK
TNL	TUNNEL
CA	GASES MATERIAL
OSL	OUTSIDE LIMITS
N/A	NOT AVAILABLE
N/S	NOT SURVEYED (REFERENCE)
PH	PHASE (POWER)
CIR	CIRCUIT (TRANSMISSION)
SVC	SERVICE
LPR	LOW PRESSURE
HPR	HIGH PRESSURE
UG	UNDERGROUND
AG	ABOVE GROUND

SOIL COMBINATION CHART

SANDY LOAM	SL	SILTY LOAM	ZL	SILT	Z
CLAY LOAM	CL	SILT CLAY LOAM	ZCL	SAND CLAY LOAM	SCL
SANDY CLAY	SC	SILTY CLAY	ZC	CLAY	C

SURFACE DESCRIPTION LEGEND KEY

ASPHALT	A	INTER-LOCKING BRICK	I	CONC-RETE	C
NATURAL GROUND	N				

SOIL DESCRIPTION LEGEND KEY

COMPACTION		WATER LEVEL		SOIL TYPE	
LOOSE	L	DRY	D	CLAY	C
SOFT	D	MOIST	M	LOAM	L
HARD	H	WET	E	SAND	S
SOLID	HH	STANDING WATER	WW	SILT	Z

UTILITY UNIQUE IDENTIFIER LINE-STYLES

ELECTRIC RECORDED	E1 THRU E10
ELECTRIC DESIGNATED	E1 THRU E10
TRAFFIC CONTROL RECORDED	TF1 THRU TF5
TRAFFIC CONTROL DESIGNATED	TF1 THRU TF5
TELEPHONE RECORDED	T1 THRU T10
TELEPHONE DESIGNATED	T1 THRU T10
CABLE TV RECORDED	TV1 THRU TV10
CABLE TV DESIGNATED	TV1 THRU TV10
IRRIGATION RECORDED	I1 THRU I5
IRRIGATION DESIGNATED	I1 THRU I5
SLURRY RECORDED	R1 THRU R5
SLURRY DESIGNATED	R1 THRU R5
GAS RECORDED	G1 THRU G10
GAS DESIGNATED	G1 THRU G10
FUEL/PETROL RECORDED	F1 THRU F5
FUEL/PETROL DESIGNATED	F1 THRU F5
STEAM RECORDED	ST1 THRU ST5
STEAM DESIGNATED	ST1 THRU ST5
COMPRESSED GASES RECORDED	CA1 THRU CA5
COMPRESSED GASES DESIGNATED	CA1 THRU CA5
WATER RECORDED	W1 THRU W10
WATER DESIGNATED	W1 THRU W10
GRAVITY SEWER	S1 THRU S10
FORCED SEWER RECORDED	FS1 THRU FS10
FORCED SEWER DESIGNATED	FS1 THRU FS10
AERIAL SIGNAL LINE	SIG
AERIAL UTILITY LINE	OH1 THRU OH20
AERIAL GUY WIRE	GW
MISCELLANEOUS RECORDED	M1 THRU M5
MISCELLANEOUS DESIGNATED	M1 THRU M5
DUCT BANK RECORDED	DB1 THRU DB5
DUCT BANK DESIGNATED	DB1 THRU DB5
UTILITY TUNNEL	TNL
UNKOWN DESIGNATED	UNK
SWEEP LIMIT	SUE
AERIAL COMMUNICATIONS	T1

QUALITY LEVEL DEFINITIONS

Level D. This level information comes solely from existing utility records. It may provide an overall "feel" for the congestion of utilities, but it is often highly limited in terms of comprehensiveness and accuracy. Its usefulness should be confined to project planning and route selection activities.

Level C. This level involves surveying visible aboveground utility facilities (e.g., manholes, valve boxes, posts) and correlating this information with existing utility records. When using this information, it is not unusual to find that many underground utilities have been either omitted or erroneously plotted. Its usefulness, therefore, should be confined to rural projects where utilities are not prevalent, or are not too expensive to repair or relocate.

Level B. This level involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities. This activity is called "designating." Two-dimensional mapping information is obtained. This information is usually sufficient to accomplish preliminary engineering goals. Decisions can be made on where to place storm drainage systems, footers, foundations and other design features in order to avoid conflicts with existing utilities. Slight adjustments in the design can produce substantial cost savings by eliminating utility relocations.

Level A. This level involves the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material and other characteristics. This activity is called "locating." It is the highest level presently available. When surveyed and mapped, precise plan and profile information are available for use in making final design decisions. By knowing exactly where a utility is positioned in three dimensions, the designer can often make small adjustments in elevations or horizontal locations and avoid the need to relocate utilities. Additional information (e.g., utility materials, condition, size, soil contamination, paving thickness) also assists the designer and Utility Company in their decisions.

U SHEET - UTILITY COORDINATION LEGEND

SYM	ABV	DESCRIPTION
	UCP	NEW / RELOCATED UTILITY POLE
	URP	REMOVE UTILITY POLE
W	UCW	NEW / RELOCATE WATER STRUCTURE
T	UCT	NEW / RELOCATE TELECOMMUNICATION PEDESTAL
G	UCG	NEW / RELOCATE GAS STRUTURE
E	UCE	NEW / RELOCATE ELECTRIC STRUCTURE
S	UCS	NEW / RELOCATE SEWER STRUCTURE
S	UCF	NEW / RELOCATE TRAFFIC STRUCTURE
U	UCU	NEW / RELOCATE MISC STRUCTURE

PROPOSED UTILITY LINES

T1 THRU T10	TELEPHONE
TV1 THRU TV10	CABLE TV
E1 THRU E10	ELECTRIC
TF1 THRU TF5	TRAFFIC CONTROL
W1 THRU W10	WATER
G1 THRU G10	GAS
FS1 THRU FS10	FORCED SEWER
F1 THRU F5	FUEL / PETROLEUM
OH1 THRU OH20	AERIAL UTILITIES
DB1 THRU DB5	DUCT BANK
M1 THRU M5	MISCELLANEOUS

U SHEET PLAN NOTES

U-SHEET LINEWORK WILL BE USED WHEN UTILITY RELCOATION PLANS ARE INCLUDED IN THE PLAN SET.

ALL U-SHEET UUI LINES WILL BE DETAILED ON THE U-SHEET DATA SHEET.

"MISCELLANEOUS" UUI U-SHEET LINEWORK CAN BE USED FOR ANY UTILITY NOT REPRESENTED WITH A RELOCATION UUI.

ON U-SHEETS, EXISTING UTILITIES ARE DEPICTED ON A GREYSCALE.

REMOVED UTILITIES

ABANDONED/REMOVED	
X X X X	TELEPHONE
X X X X	CABLE TV
X X X X	ELECTRIC
X X X X	TRAFFIC CONTROL
X X X X	WATER
X X X X	GAS
X X X X	FORCED SEWER
X X X X	FUEL / PETROLEUM
X X X X	AERIAL UTILITIES
X X X X	DUCT BANK
X X X X	MISCELANEOUS

PROJECT SPECIFIC NOTES

1. SUE WAS PERFORMED BY SAM FOR SCDOT.

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
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2			
1			

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

UTILITY LEGEND SHEET

SCALE: N/A RTE. US 21 DWG. NO. U2

UTILITY DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	U3

FOR INFORMATION ONLY

UTILITY	ALIGNMENT / ROUTE / RD	STATION RANGE	OFFSET RANGE	ITEM IN PLACE	OWNERSHIP	REMARKS / MISC NOTES
E1	US21, SC51			UNDERGROUND POWER	YORK ELECTRIC CORP.	
E1-1	US21, SC51			AERIAL SINGLE PHASE POWER	YORK ELECTRIC CORP.	
E1-2	US21, SC51			AERIAL TWO PHASE POWER	YORK ELECTRIC CORP.	
E1-3	US21, SC51			AERIAL THREE PHASE POWER	YORK ELECTRIC CORP.	
E2-TRANS	US21, SC51, SC641			AERIAL TRANSMISSION POWER	DUKE POWER	44kV & 100kV OVERHEAD TRANSMISSION
E3-3 TRANS	US21			AERIAL TRANSMISSION POWER	SANTEE COOPER POWER	3-PHASE OVERHEAD TRANSMISSION
T1	US21, SC51, SC641			UNDERGROUND TELEPHONE	COMPORIUM	
T1-C	US21, SC51, SC641			AERIAL TELEPHONE COPPER	COMPORIUM	COPPER
T1-F	SC51, SC641			AERIAL TELEPHONE FO	COMPORIUM	FIBER OPTIC
T2	US21, SC51, SC641			UNDERGROUND TELEPHONE FO	DUKE NET	
T2-F	US21, US21 BUS, SC98			AERIAL TELEPHONE FO	DUKE NET	FIBER OPTIC
T3	US21, US21 BUS			UNDERGROUND TELEPHONE FO	AT&T	
TV1	US21, US21 BUS, SC51			AERIAL & UNDERGROUND CATV	COMPORIUM	
TV2	US21, SC51, SC641			UNDERGROUND FO	TWC	
G1	US21, US21 BUS, SC51			UNDERGROUND GAS	YORK CO. NATURAL GAS	
W1	US21, US21 BUS, SC51, SC98			UNDERGROUND WATER	YORK CO. WATER & SEWER	
W2	AMELIA, FERN FOREST, FOREST			UNGROUND WATER	FERN FOREST MHP	
S1	US21, US21 BUS, SC51, SC98			UNDERGROUND SAN. SEWER	YORK CO. WATER & SEWER	
TF1	US21, US21 BUS, SC51, SC98			AERIAL & UNDERGROUND SIGNAL	SC DOT	
OH1	US21, SC51, SC641, SC98			OVERHEAD POWER	YORK ELECTRIC CORP.	ALSO CARRIES AT VARIOUS LOCATIONS T1, TV1, T2, TF1
OH2	US21, SC51			OVERHEAD TRAFFIC SIGNAL	SC DOT	
OH3	US21			OVERHEAD POWER	SANTEE COOPER POWER	OVERHEAD TRANSMISSION
OH4	US21, SC51, SC98			OVERHEAD TELEPHONE & CATV	COMPORIUM	
OH5	SC51, SC641			OVERHEAD POWER	DUKE POWER	DOUBLE CIRCUIT 44kV OVERHEAD TRANSMISSION
OH5	US21			OVERHEAD POWER	DUKE POWER	DOUBLE CIRCUIT 100kV OVERHEAD TRANSMISSION

UTILITY & POLE DATA TABLE DESCRIPTION

COLUMN	DESCRIPTION	EXAMPLE
UTILITY	a) Reference the Utility Unique Identifier (UUI) b) Reference Sewer Manhole Number (SMN) c) Reference Utility Information Tags (UIT)	E1, G1, OH15 S001, SMH-02 U001, U05
POLE	Reference the Utility Pole ID Number	P001, P25
ALIGNMENT ROUTE ROAD	Reference the Alignment used for Stationing Use design alignments when available ~All geometric data used will be referenced to the project datum~	 MAIN ST. MAIN ST. RELOC

COLUMN	DESCRIPTION	EXAMPLE
STATION RANGE	a) Reference the station of the begin & end of linear utility b) Reference the station location of utility appurtenance c) Reference the station location of manhole	01+23 - 45+67 01+23 01+23
OFFSET RANGE	a) Reference the offset of the begin & end of linear utility b) Reference the offset location of utility appurtenance c) Reference the offset location of manhole	15R - 15R 25L 25L
ITEM IN PLACE	a) Reference utility type, size & material b) Reference the utility appurtenance type c) Reference manhole	TELE, COPPER / GAS 6" DI U/G PEDESTAL SEWER MH

COLUMN	DESCRIPTION	EXAMPLE
OWNERSHIP	Reference utility owner by name or by Owner Ref Abbr from Title Sheet	LOCAL POWER CO. LPC
POLE DATA	Reference Owner Number, Height, Diameter and Material of pole	DPC123, 35', 12", WOOD
REMARKS MISC NOTES	a) Further details including capacity, etc. b) List Sewer rims and invert elevations c) List details and desc, sizes, record information, etc.	RIM=123.45, INV IN=123.45 INV OUT=123.45 RECORDS SHOW INFO

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

UTILITY DATA SHEET

SCALE: N/A RTE. US 21 DWG. NO. U3

POLE DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	U4A

FOR INFORMATION ONLY

POLE	ALIGNMENT / ROUTE / RD	STATION	OFFSET	OWNER	POLE DATA				RIDING UTILITIES
					OWNER No	HEIGHT	DIAMETER	MATERIAL	
1				York Electric	40 N	33'	9"	Wood	Pwr
2				York Electric		39'	11"	Wood	Pwr
3				York Electric		24'	7"	Wood	Pwr
4				York Electric	OSN	42'	11"	Wood	Pwr
5				York Electric	OSN	43'	12"	Wood	Pwr
6				York Electric		24'	7"	Wood	Pwr
7				SCDOT	5133A/350-N-6497A	27'	15"	Concrete	Signal
8				York Electric		42'	11"	Wood	Pwr
9				York Electric		43'	11"	Wood	Pwr
10				York Electric		42'	11"	Wood	Pwr
11				SCDOT	8-150/350-5767A	27'	15"	Wood	Signal
12				York Electric		43'	11"	Concrete	Pwr
13				York Electric		12'	4x6	Wood	Pwr
14				York Electric		34'	10"	Wood	Pwr
15				York Electric		35'	10"	Wood	Pwr
16				York Electric		12'	4x6	Wood	Pwr
17				SCDOT	1-188/350N-6022A	27'	15"	Concrete	Signal
18				SCDOT	7-133A/350-N-6497A	27'	15"	Concrete	Signal, Pwr, Tel
19				York Electric	40N	42'	11"	Wood	Pwr
20				York Electric		34'	11"	Wood	Pwr
21				York Electric		38'	11"	Wood	Pwr
22				York Electric		29'	9"	Wood	Pwr
23				York Electric		38'	11"	Wood	Pwr
24				York Electric		33'	10"	Wood	Pwr
25				York Electric	20N	42'	11"	Wood	Pwr
26				York Electric		38'	11"	Wood	Pwr
27				York Electric		34'	10"	Wood	Pwr
28				York Electric		37'	11"	Wood	Pwr
29				Santee Cooper	16# 156475	60'	14"	Wood	Pwr
30				Santee Cooper	15# 165474	77'	14"	Wood	Pwr
31				Santee Cooper	14# 165473	68'	14"	Wood	Pwr
32				York Electric		36'	12"	Wood	Pwr
33				York Electric		40'	12"	Wood	Pwr
34				York Electric		40'	12"	Wood	Pwr
35				York Electric	30N 3CACA1	37'	11"	Wood	Pwr
36				York Electric		49'	14"	Wood	Pwr
37				York Electric		39'	11"	Wood	Pwr
38				York Electric		35'	10"	Wood	Pwr
39				York Electric		34'	10"	Wood	Pwr
40				York Electric	2ST	34'	10"	Wood	Pwr
41				York Electric		38'	10"	Wood	Pwr, Tel, Ctv
42				York Electric	10N	28'	10"	Wood	Pwr
43				York Electric		52'	12"	Wood	Pwr
44				York Electric	30N	42'	12"	Wood	Pwr
45				York Electric		34'	10"	Wood	Guy
46				York Electric	2 12	34'	10"	Wood	Pwr, Tel, Ctv
47				York Electric		24'	9"	Wood	Pwr
48				York Electric		24'	7"	Wood	Pwr, Tel, Ctv
49				York Electric	11	33'	9"	Wood	Pwr, Tel, Ctv
50				York Electric		24'	8"	Wood	Pwr, Tel, Ctv
51				York Electric		24'	8"	Wood	Pwr, Tel, Ctv
52				York Electric		32'	8"	Wood	Pwr, Tel, Ctv
53				York Electric		28'	8"	Wood	Pwr, Tel, Ctv
54				York Electric		44'	12"	Wood	Pwr
55				York Electric	30N	42'	12"	Wood	Pwr
56				York Electric		38'	11"	Wood	Guy
57				Comporium	3CAB1	24'	11"	Wood	Tel, Ctv
58				York Electric		22'	8"	Wood	Pwr
59				York Electric	22	32'	9"	Wood	Pwr, Tel, Ctv
60				York Electric		24'	9"	Wood	Pwr, Tel, Ctv
61				York Electric	3	33'	10"	Wood	Pwr, Tel, Ctv
62				York Electric		26'	7"	Wood	Pwr, Tel, Ctv
63				York Electric	4	34'	10"	Wood	Pwr, Tel, Ctv
64				York Electric		24'	8"	Wood	Pwr, Tel, Ctv
65				York Electric		11'	8"	Wood	Pwr, Tel, Ctv
66				York Electric		28'	8"	Wood	Pwr, Tel, Ctv
67				York Electric		24'	7"	Wood	Pwr, Tel, Ctv
68				York Electric		25'	7"	Wood	Pwr, Tel, Ctv
69				York Electric		29'	7"	Wood	Pwr, Tel, Ctv
70				York Electric	5	34'	9"	Wood	Pwr, Tel, Ctv
71				York Electric	AB6	34'	9"	Wood	Pwr, Tel, Ctv
72				Duke Power		93'		Metal	Pwr
73				Duke Power		90'		Metal	Pwr
74				York Electric		41'	12"	Wood	Pwr
75				York Electric		30'	9"	Wood	Pwr, Tel, Ctv
76				York Electric		29'	8"	Wood	Pwr, Tel, Ctv
77				York Electric		48'	14"	Wood	Pwr
78				York Electric		28'	9"	Wood	Guy
79				York Electric		25'	8"	Wood	Guy
80				York Electric		29'	9"	Wood	Guy
81				York Electric	11	43'	12"	Wood	Pwr, Tel, Ctv
82				York Electric		25'	8"	Wood	Pwr, Tel, Ctv
83				York Electric	3AAA 10	43'	12"	Wood	Pwr, Tel, Ctv
84				York Electric		25'	7"	Wood	Pwr, Tel, Ctv
85				York Electric		33'	10"	Wood	Pwr
86				York Electric		33'	10"	Wood	Pwr
87				York Electric		43'	12"	Wood	Pwr
88				York Electric		44'	12"	Wood	Pwr

UTILITY & POLE DATA TABLE DESCRIPTION

COLUMN	DESCRIPTION	EXAMPLE
UTILITY	a) Reference the Utility Unique Identifier (UUI) b) Reference Sewer Manhole Number (SMN) c) Reference Utility Information Tags (UIT)	E1, G1, OH15 S001, SMH-02 U001, U05
POLE	Reference the Utility Pole ID Number	P001, P25
ALIGNMENT ROUTE ROAD	Reference the Alignment used for Stationing Use design alignments when available ~All geometric data used will be referenced to the project datum~	 MAIN ST. MAIN ST. RELOC

COLUMN	DESCRIPTION	EXAMPLE
STATION RANGE	a) Reference the station of the begin & end of linear utility b) Reference the station location of utility appurtenance c) Reference the station location of manhole	01+23 - 45+67 01+23 01+23
OFFSET RANGE	a) Reference the offset of the begin & end of linear utility b) Reference the offset location of utility appurtenance c) Reference the offset location of manhole	15R - 15R 25L 25L
ITEM IN PLACE	a) Reference utility type, size & material b) Reference the utility appurtenance type c) Reference manhole	TELE, COPPER / GAS 6" DI U/G PEDESTAL SEWER MH

COLUMN	DESCRIPTION	EXAMPLE
OWNERSHIP	Reference utility owner by name or by Owner Ref Abbr from Title Sheet	LOCAL POWER CO. LPC
POLE DATA	Reference Owner Number, Height, Diameter and Material of pole	DPC123, 35', 12", WOOD
REMARKS MISC NOTES	a) Further details including capacity, etc. b) List Sewer rims and invert elevations c) List details and desc, sizes, record information, etc.	RIM=123.45, INV IN=123.45 INV OUT=123.45 RECORDS SHOW INFO

STV Incorporated
4969 CENTRE POINTE DRIVE
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NORTH CHARLESTON, SOUTH CAROLINA 29418

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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
POLE DATA SHEET

SCALE: N/A RTE. US 21 DWG. NO. U4A

POLE DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21 SC 51	U4B

FOR INFORMATION ONLY

POLE	ALIGNMENT / ROUTE / RD	STATION	OFFSET	OWNER	POLE DATA				RIDING UTILITIES
					OWNER No	HEIGHT	DIAMETER	MATERIAL	
89				York Electric		43'	12"	Wood	Pwr, Tel, Ctv
90				York Electric	7	43'	11"	Wood	Pwr, Tel, Ctv
91				York Electric	6.5	43'	11"	Wood	Pwr, Tel, Ctv
92				York Electric	3C6	48'	13"	Wood	Pwr, Tel, Ctv
93				York Electric	20N	48'	12"	Wood	Pwr, Tel, Ctv
94				SCDOT	350-5698A	27'	15"	Concrete	Signal
95				SCDOT	350-698A	26'	15"	Concrete	Signal
96				SCDOT	350N-5698A	27'	15"	Concrete	Signal
97				SCDOT	350N-5614A	27'	15"	Concrete	Signal
98				York Electric		43'	12"	Wood	Pwr
99				York Electric		37'	12"	Wood	Pwr
100				York Electric		43'	12"	Wood	Pwr, Tel
101				York Electric		33'	10"	Wood	Pwr, Tel
102				York Electric		42'	11"	Wood	Pwr
103				York Electric		41'	11"	Wood	Pwr, Tel
104				York Electric	10N	32'	10"	Wood	Pwr
105				York Electric		33'	10"	Wood	Pwr
106				York Electric		33'	10"	Wood	Pwr
107				York Electric		24'	8"	Wood	Pwr
108				York Electric		33'	11"	Wood	Pwr
109				York Electric		42'	12"	Wood	Pwr
110				York Electric		43'	12"	Wood	Pwr
111				York Electric		24'	8"	Wood	Pwr
112				York Electric	40N	42'	12"	Wood	Pwr
113				York Electric		48'	12"	Wood	Pwr
114				York Electric	60N 40N	34'	12"	Wood	Pwr
115				York Electric		24'	8"	Wood	Pwr
116				York Electric		52'	12"	Wood	Pwr, Tel, Ctv
117				York Electric	3B4	43'	12"	Wood	Pwr, Tel, Ctv
118				York Electric		43'	12"	Wood	Pwr
119				York Electric		33'	10"	Wood	Pwr
120				York Electric		35'	10"	Wood	Pwr
121				York Electric		38'	11"	Wood	Pwr
122				York Electric	20N 4A	36'	10"	Wood	Pwr
123				York Electric		24'	7"	Wood	Pwr
124				York Electric		44'	11"	Wood	Pwr
125				York Electric	3BS	43'	11"	Wood	Pwr, Tel, Ctv
126				York Electric		29'	8"	Wood	Pwr, Tel, Ctv
127				York Electric		29'	8"	Wood	Pwr
128				York Electric		34'	10"	Wood	Pwr
129				York Electric		25'	8"	Wood	Pwr, Tel
130				York Electric		42'	12"	Wood	Pwr, Tel, Ctv
131				York Electric		42'	12"	Wood	Pwr
132				York Electric		44'	13"	Wood	Pwr
133				York Electric		44'	12"	Wood	Pwr, Tel, Ctv
134				York Electric		33'	10"	Wood	Pwr, Tel, Ctv
135				York Electric		29'	10"	Wood	Pwr, Tel, Ctv
136				York Electric		44'	11"	Wood	Pwr, Tel, Ctv
137				York Electric		38'	11"	Wood	Pwr, Tel, Ctv
138				York Electric	1ST	34'	10"	Wood	Pwr, Tel, Ctv
139				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
140				York Electric		29'	9"	Wood	Pwr
141				York Electric		30'	8"	Wood	Pwr, Tel, Ctv
142				York Electric		34'	9"	Wood	Pwr, Tel, Ctv
143				York Electric		34'	11"	Wood	Pwr, Tel, Ctv
144				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
145				York Electric		29'	9"	Wood	Tel, Ctv
146				York Electric		29'	9"	Wood	Tel, Ctv
147				York Electric		29'	8"	Wood	Pwr, Tel, Ctv
148				York Electric	3BAIC 5N 30N	37'	12"	Wood	Pwr, Tel
149				York Electric	30N	42'	12"	Wood	Pwr, Tel, Ctv
150				York Electric		43'	13"	Wood	Pwr, Tel, Ctv
151				York Electric	10N	33'	12"	Wood	Pwr, Tel, Ctv
152				York Electric		42'	13"	Wood	Pwr, Tel, Ctv
153				York Electric		28'	9"	Wood	Pwr
154				Comporium		30'	7"	Wood	Tel, Ctv
155				York Electric	30N	42'	11"	Wood	Pwr, Tel, Ctv
156				SCDOT		29'	13"	Wood	Signal
157				York Electric	40N	36'	11"	Wood	Pwr
158				York Electric	60N	38'	11"	Wood	Pwr
159				SCDOT		33'	11"	Wood	Signal
160				York Electric		13'	4x6	Wood	Pwr
161				York Electric		25'	8"	Wood	Pwr
162				SCDOT		30'	11"	Wood	Signal
163				York Electric		44'	12"	Wood	Pwr
164				York Electric		43'	12"	Wood	Pwr
165				York Electric	40N	44'	12"	Wood	Pwr, Tel, Ctv
166				York Electric		28'	8"	Wood	Pwr
167				York Electric		28'	10"	Wood	Pwr
168				York Electric		42'	12"	Wood	Pwr, Tel, Ctv
169				York Electric		20'	9"	Wood	Pwr
170				York Electric	5N	38'	12"	Wood	Pwr, Tel, Ctv
171				York Electric		28'	8"	Wood	Pwr
172				SCDOT	400N-5767B	30'	15"	Concrete	Signal
173				York Electric		24'	8"	Wood	Pwr
174				York Electric		25'	8"	Wood	Pwr, Ctv
175				York Electric	5A	28'	9"	Wood	Pwr, Tel, Ctv
176				York Electric		24'	8"	Wood	Pwr, Tel, Ctv

UTILITY & POLE DATA TABLE DESCRIPTION

COLUMN	DESCRIPTION	EXAMPLE
UTILITY	a) Reference the Utility Unique Identifier (UUI) b) Reference Sewer Manhole Number (SMN) c) Reference Utility Information Tags (UIT)	E1, G1, OH15 S001, SMH-02 U001, U05
POLE	Reference the Utility Pole ID Number	P001, P25
ALIGNMENT ROUTE ROAD	Reference the Alignment used for Stationing Use design alignments when available ~All geometric data used will be referenced to the project datum~	 MAIN ST. MAIN ST. RELOC

COLUMN	DESCRIPTION	EXAMPLE
STATION RANGE	a) Reference the station of the begin & end of linear utility b) Reference the station location of utility appurtenance c) Reference the station location of manhole	01+23 - 45+67 01+23 01+23
OFFSET RANGE	a) Reference the offset of the begin & end of linear utility b) Reference the offset location of utility appurtenance c) Reference the offset location of manhole	15R - 15R 25L 25L
ITEM IN PLACE	a) Reference utility type, size & material b) Reference the utility appurtenance type c) Reference manhole	TELE, COPPER / GAS 6" DI U/G PEDESTAL SEWER MH

COLUMN	DESCRIPTION	EXAMPLE
OWNERSHIP	Reference utility owner by name or by Owner Ref Abbr from Title Sheet	LOCAL POWER CO. LPC
POLE DATA	Reference Owner Number, Height, Diameter and Material of pole	DPC123, 35', 12", WOOD
REMARKS MISC NOTES	a) Further details including capacity, etc. b) List Sewer rims and invert elevations c) List details and desc, sizes, record information, etc.	RIM=123.45, INV IN=123.45 INV OUT=123.45 RECORDS SHOW INFO

STV Incorporated
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
POLE DATA SHEET

SCALE: N/A RTE. US 21 DWG. NO. U4B

POLE DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21 SC 51	U4C

FOR INFORMATION ONLY

POLE	ALIGNMENT / ROUTE / RD	STATION	OFFSET	OWNER	POLE DATA				RIDING UTILITIES
					OWNER No	HEIGHT	DIAMETER	MATERIAL	
177				York Electric		24'	7"	Wood	Pwr
178				SCDOT	400-4558B	30'	15"	Concrete	Signal
179				York Electric		42'	11"	Wood	Pwr, Tel, Ctv
180				SCDOT	400M-5767B	29'	15"	Concrete	Signal
181				SCDOT	400M-4400A	29'	15"	Concrete	Signal
182				York Electric	30N	42'	13"	Wood	Pwr, Tel, Ctv
183				York Electric		41'	9"	Wood	Pwr, Tel, Ctv
184				York Electric		43'	12"	Wood	Pwr, Ctv
185				York Electric	50N	33'	11"	Wood	Pwr
186				York Electric		43'	11"	Wood	Pwr, Ctv
187				York Electric		42'	12"	Wood	Pwr, Ctv
188				York Electric		43'	11"	Wood	Pwr, Tel, Ctv
189				York Electric		34'	9"	Wood	Pwr, Tel, Ctv
190				York Electric		24'	8"	Wood	Pwr
191				York Electric		43'	10"	Wood	Pwr, Tel, Ctv
192				York Electric		42'	10"	Wood	Pwr, Tel, Ctv
193				York Electric		53'	13"	Wood	Pwr, Ctv
194				York Electric		25'	9"	Wood	Pwr
195				York Electric		52'	13"	Wood	Pwr
196				York Electric		43'	13"	Wood	Pwr
197				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
198				York Electric		33'	9"	Wood	Pwr, Tel, Ctv
199				York Electric		24'	7"	Wood	Pwr, Tel, Ctv
200				Fort Mill Telephone		27'	10"	Wood	Tel, Ctv
201				York Electric		43'	12"	Wood	Pwr
202				York Electric		42'	12"	Wood	Pwr
203				York Electric		34'	9"	Wood	Pwr
204				York Electric		47'	13"	Wood	Pwr, Tel, Ctv
205				SCDOT		28'	15"	Wood	Signal
206				SCDOT		28'	12"	Wood	Signal
207				York Electric		29'	9"	Wood	Guy
208				SCDOT		29'	11"	Wood	Signal
209				SCDOT		29'	11"	Wood	Signal
210				York Electric		23'	11"	Wood	Tel, Ctv
211				York Electric		43'	7"	Wood	Pwr, Tel, Ctv
212				York Electric		43'	12"	Wood	Pwr, Tel, Ctv
213				York Electric		33'	12"	Wood	Pwr
214				York Electric		39'	10"	Wood	Pwr
215				York Electric		29'	9"	Wood	
216				York Electric		43'	12"	Wood	Pwr, Ctv
217				York Electric		36'	11"	Wood	Pwr, Tel
218				York Electric	30N	38'	11"	Wood	Pwr, Tel
219				York Electric		29'	8"	Wood	Pwr, Tel
220				York Electric		24'	8"	Wood	Pwr
221				SCDOT		32'	15"	Concrete	Signal
222				SCDOT		31'	15"	Concrete	Signal
223				SCDOT		32'	15"	Concrete	Signal
224				York Electric	20	34'	9"	Wood	Pwr
225				SCDOT		31'	15"	Concrete	Signal
226				York Electric		39'	11"	Wood	Pwr
227				York Electric		21'	9"	Wood	Pwr
228				York Electric		34'	10"	Wood	Pwr, Tel
229				York Electric		33'	10"	Wood	Pwr, Tel
230				York Electric	15N	44'	11"	Wood	Pwr, Tel
231				York Electric	30N	33'	9"	Wood	Pwr, Tel
232				York Electric		34'	10"	Wood	Pwr, Tel
233				Comporium		25'	8"	Wood	Tel
234				York Electric		36'	10"	Wood	Pwr
235				Comporium		30'	8"	Wood	Tel, Ctv
236				York Electric	BN1	40'	10"	Wood	Pwr, Tel, Ctv
237				York Electric		39'	10"	Wood	Pwr, Tel, Ctv
238				York Electric		23'	8"	Wood	Pwr
239				York Electric		37'	11"	Wood	Pwr
240				York Electric		38'	11"	Wood	Pwr, Tel
241				York Electric		36'	11"	Wood	Pwr, Tel
242				York Electric		42'	13"	Wood	Pwr, Tel
243				York Electric		34'	10"	Wood	Pwr
244				York Electric		36'	10"	Wood	Pwr
245				York Electric		34'	10"	Wood	Pwr
246				York Electric		38'	11"	Wood	Pwr, Tel
247				York Electric		30'	9"	Wood	Pwr
248				York Electric		34'	11"	Wood	Pwr, Tel
249				York Electric		38'	11"	Wood	Pwr, Tel
250				York Electric		32'	10"	Wood	Pwr, Tel
251				York Electric	3BP5	42'	13"	Wood	Pwr, Tel
252				York Electric		38'	11"	Wood	Pwr
253				York Electric		32'	9"	Wood	Pwr
254				York Electric		33'	11"	Wood	Pwr
255				York Electric		36'	11"	Wood	Pwr, Tel, Ctv
256				York Electric		33'	11"	Wood	Pwr, Tel, Ctv
257				York Electric		37'	10"	Wood	Pwr, Tel, Ctv
258				York Electric	3BP912 15N	35'	11"	Wood	Pwr, Tel, Ctv
259				York Electric	5N	37'	11"	Wood	Pwr, Tel, Ctv
260				York Electric		38'	11"	Wood	Pwr, Tel, Ctv
261				Comporium		34'	10"	Wood	Pwr, Tel, Ctv
262				York Electric		35'	10"	Wood	Pwr
263				York Electric		34'	11"	Wood	Pwr
264				York Electric		33'	8"	Wood	Pwr, Tel, Ctv

UTILITY & POLE DATA TABLE DESCRIPTION

COLUMN	DESCRIPTION	EXAMPLE
UTILITY	a) Reference the Utility Unique Identifier (UUI) b) Reference Sewer Manhole Number (SMN) c) Reference Utility Information Tags (UIT)	E1, G1, OH15 S001, SMH-02 U001, U05
POLE	Reference the Utility Pole ID Number	P001, P25
ALIGNMENT ROUTE ROAD	Reference the Alignment used for Stationing Use design alignments when available ~All geometric data used will be referenced to the project datum~	 MAIN ST. MAIN ST. RELOC

COLUMN	DESCRIPTION	EXAMPLE
STATION RANGE	a) Reference the station of the begin & end of linear utility b) Reference the station location of utility appurtenance c) Reference the station location of manhole	01+23 - 45+67 01+23 01+23
OFFSET RANGE	a) Reference the offset of the begin & end of linear utility b) Reference the offset location of utility appurtenance c) Reference the offset location of manhole	15R - 15R 25L 25L
ITEM IN PLACE	a) Reference utility type, size & material b) Reference the utility appurtenance type c) Reference manhole	TELE, COPPER / GAS 6" DI U/G PEDESTAL SEWER MH

COLUMN	DESCRIPTION	EXAMPLE
OWNERSHIP	Reference utility owner by name or by Owner Ref Abbr from Title Sheet	LOCAL POWER CO. LPC
POLE DATA	Reference Owner Number, Height, Diameter and Material of pole	DPC123, 35', 12", WOOD
REMARKS MISC NOTES	a) Further details including capacity, etc. b) List Sewer rims and invert elevations c) List details and desc, sizes, record information, etc.	RIM=123.45, INV IN=123.45 INV OUT=123.45 RECORDS SHOW INFO

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51
POLE DATA SHEET

SCALE: N/A RTE. US 21 DWG. NO. U4C

POLE DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21 SC 5I	U4D

FOR INFORMATION ONLY

POLE	ALIGNMENT / ROUTE / RD	STATION	OFFSET	OWNER	POLE DATA				RIDING UTILITIES
					OWNER No	HEIGHT	DIAMETER	MATERIAL	
265				York Electric		24'	10"	Wood	Pwr
266				York Electric	4.5	36'	11"	Wood	Pwr, Tel, Ctv
267				Comporium		33'	8"	Wood	Pwr, Tel, Ctv
268				York Electric		24'	9"	Wood	Pwr, Tel
269				Comporium		25'	10"	Wood	Tel
270				York Electric		30'	10"	Wood	Pwr
271				York Electric		26'	9"	Wood	Pwr
272				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
273				Duke Power		92'		Metal	Pwr
274				York Electric		33'	10"	Wood	Pwr
275				York Electric		32'	10"	Wood	Pwr, Tel, Ctv
276				York Electric		34'	11"	Wood	Pwr, Tel, Ctv
277				Comporium		34'	10"	Wood	Pwr, Tel, Ctv
278				York Electric	3B16	43'	12"	Wood	Pwr, Tel, Ctv
279				SCDOT	350N-5299B	28'	15"	Concrete	Signal
280				York Electric		25'	8"	Wood	Pwr, Tel
281				SCDOT		28'	15"	Concrete	Signal
282				SCDOT	E-350N-5299B	28'	15"	Concrete	Signal
283				SCDOT	350N-5299B	28'	15"	Concrete	Signal
284				York Electric	3B17	43'	13"	Wood	Pwr, Tel, Ctv
285				York Electric	3BE20	30'	10"	Wood	Pwr, Tel, Ctv
286				York Electric		29'	10"	Wood	Pwr
287				York Electric		33'	10"	Wood	Pwr, Tel, Ctv
288				York Electric		28'	9"	Wood	Pwr
289				Duke Power	5	43'	11"	Wood	Pwr
290				Duke Power		105'		Metal	Pwr
291				York Electric	30N	31'	10"	Wood	Pwr, Tel, Ctv
292				Duke Power	1	42'	13"	Wood	Pwr, Tel
293				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
294				Duke Power	2	51'	13"	Wood	Pwr
295				York Electric	99	35'	12"	Wood	Pwr, Tel
296				York Electric		34'	9"	Wood	Pwr
297				York Electric	3BEC1	34'	10"	Wood	Pwr, Tel, Ctv
298				York Electric		33'	9"	Wood	Pwr
299				York Electric		34'	11"	Wood	Pwr
300				York Electric		35'	10"	Wood	Pwr, Tel, Ctv
301				York Electric		39'	11"	Wood	Pwr, Tel, Ctv
302				York Electric		34'	9"	Wood	Pwr, Tel, Ctv
303				York Electric		43'	12"	Wood	Pwr, Tel, Ctv
304				York Electric		43'	12"	Wood	Pwr, Tel, Ctv
305				York Electric		38'	10"	Wood	Pwr, Tel, Ctv
306				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
307				York Electric		39'	11"	Wood	Pwr
308				York Electric		38'	11"	Wood	Pwr
309				York Electric	30N	33'	12"	Wood	Pwr
310				York Electric		39'	12"	Wood	Pwr
311				York Electric	20N	39'	12"	Wood	Pwr
312				York Electric		34'	10"	Wood	Pwr, Tel, Ctv
313				York Electric		30'	9"	Wood	Pwr, Tel
314				York Electric	23	37'	10"	Wood	Pwr, Tel
315				York Electric		38'	11"	Wood	Pwr
316				Duke Power		90'		Metal	Pwr
317				York Electric		38'	10"	Wood	Pwr, Tel, Ctv, Signal
318				York Electric		38'	12"	Wood	Pwr, Tel, Ctv
319				York Electric		38'	12"	Wood	Pwr, Tel, Ctv, Signal
320				York Electric		38'	12"	Wood	Pwr, Tel, Ctv, Signal
321				York Electric	30N	38'	10"	Wood	Pwr, Tel, Ctv, Signal
322				York Electric		29'	9"	Wood	Pwr
323				York Electric		29'	9"	Wood	Pwr
324				York Electric		28'	9"	Wood	Pwr
325				York Electric		26'	9"	Wood	Pwr
326				York Electric		29'	9"	Wood	Pwr
327				York Electric		24'	9"	Wood	Pwr
328				York Electric	30N	33'	10"	Wood	Pwr
329				York Electric	12N	34'	9"	Wood	Pwr
330				York Electric		33'	12"	Wood	Pwr
331				York Electric		33'	10"	Wood	Pwr
332				York Electric		35'	10"	Wood	Pwr
333				York Electric		33'	11"	Wood	Pwr
334				York Electric		33'	10"	Wood	Pwr
335				York Electric		34'	12"	Wood	Pwr
336				York Electric		34'	10"	Wood	Pwr
337				York Electric		24'	9"	Wood	Pwr
338				York Electric		34'	10"	Wood	Pwr
339				York Electric			11"	Wood	Pwr
340				SCDOT			11"	Wood	Signal
341				York Electric			11"	Wood	Pwr, Tel
342				SCDOT			11"	Wood	Signal
343				York Electric			11"	Wood	Pwr
344				York Electric			11"	Wood	Pwr
345				York Electric			11"	Wood	Pwr, Ctv
346				Duke Power			13"	Wood	Pwr
347				York Electric	30N		11"	Wood	Pwr, Ctv

UTILITY & POLE DATA TABLE DESCRIPTION

COLUMN	DESCRIPTION	EXAMPLE	COLUMN	DESCRIPTION	EXAMPLE	COLUMN	DESCRIPTION	EXAMPLE
UTILITY	a) Reference the Utility Unique Identifier (UUI) b) Reference Sewer Manhole Number (SMN) c) Reference Utility Information Tags (UIT)	E1, G1, OH15 S001, SMH-02 U001, U05	STATION RANGE	a) Reference the station of the begin & end of linear utility b) Reference the station location of utility appurtenance c) Reference the station location of manhole	01+23 - 45+67 01+23 01+23	OWNERSHIP	Reference utility owner by name or by Owner Ref Abbr from Title Sheet	LOCAL POWER CO. LPC
POLE	Reference the Utility Pole ID Number	P001, P25	OFFSET RANGE	a) Reference the offset of the begin & end of linear utility b) Reference the offset location of utility appurtenance c) Reference the offset location of manhole	15R - 15R 25L 25L	POLE DATA	Reference Owner Number, Height, Diameter and Material of pole	DPC123, 35', 12", WOOD
ALIGNMENT ROUTE ROAD	Reference the Alignment used for Stationing Use design alignments when available ~All geometric data used will be referenced to the project datum~	 MAIN ST. MAIN ST. RELOC	ITEM IN PLACE	a) Reference utility type, size & material b) Reference the utility appurtenance type c) Reference manhole	TELE, COPPER / GAS 6" DI U/G PEDESTAL SEWER MH	REMARKS MISC NOTES	a) Further details including capacity, etc. b) List Sewer rims and invert elevations c) List details and desc, sizes, record information, etc.	RIM=123.45, INV IN=123.45 INV OUT=123.45 RECORDS SHOW INFO

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4969 CENTRE POINTE DRIVE
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NORTH CHARLESTON, SOUTH CAROLINA 29418

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6			
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51 POLE DATA SHEET

SCALE: N/A RTE. US 21 DWG. NO. U4D

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21 SC 51	U5

GENERAL NOTES

THESE PLANS ARE TO BE USED ONLY AS REFERENCE FOR UTILITY RELOCATIONS.

ALL RELOCATIONS ARE APPROXIMATE BASED ON INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS.

ALL PROPOSED RELOCATIONS ARE CONSIDERED INCOMPLETE AND THE INDIVIDUAL UTILITY OWNERS MAY REQUIRE ADDITIONAL RELOCATIONS.

ACTUAL FIELD CONDITIONS WILL DICTATE THE PRECISE LOCATION OF THE RELOCATED UTILITY THROUGH COORDINATION BETWEEN THE CONTRACTOR AND THE UTILITY OWNER.

THE CONTRACTOR IS REQUIRED TO CONTACT 811 AS WELL AS THE NON-811 MEMBER UTILITIES THREE DAYS PRIOR TO EXCAVATING ACTIVITIES.
1-888-721-7877

SPECIAL PROVISIONS

UTILITY STAKING:

CONTRACTOR SHALL BE AWARE ON AS NEEDED BASIS, UTILITIES MAY REQUEST STAKING OF CONSTRUCTION ITEMS AND RIGHT-OF-WAY TO HELP FACILITATE RELOCATIONS AND TO AVOID POTENTIAL CONFLICT WITH ROADWAY CONSTRUCTION AND OTHER UTILITIES.

UTILITY RELOCATION CLEARING SEQUENCE:

UTILITY RELOCATION APPROACH:

IT IS THE INTENTION OF THE UTILITIES TO RELOCATE ACCORDING TO THE FOLLOWING CONSTRUCTION SEQUENCE. THE CLEARING CONTRACTOR SHALL CLEAR AND GRUB ACCORDING TO THE PRIORITY SHOWN IN CHART.

IT IS THE INTENT THAT UTILITIES WILL START WORKING IN ALL AVAILABLE LOCATIONS, WHERE AND WHEN POSSIBLE. EXISTING UTILITIES WILL REMAIN ACTIVE UNTIL ALL NEW FACILITIES ARE INSTALLED AND CUT OVER.

KEY

- notifications (permitting, procurement, scheduling)
- active relocation/ construction activity
- some activity
- no activity
- Project Bid (Early C&G only)
- NTP
- Contractor on-site for C&G operations
- Utility Window
- Project Bid (TBD - For visual purpose only)

****THIS BAR CHART IS FOR INFORMATION ONLY. THE PURPOSE IS TO VISUALLY SHOW THE ORDER OF UTILITY RELOCATIONS IN RELATION TO OTHER CONSTRUCTION ACTIVITY AND NEEDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY RELOCATION STATUS. CONTRACTOR ACTIVITY FOR THE PROJECT WILL EXTEND FURTHER THAN WHAT IS SHOWN.**

US 21/ SC 51 Widening

(Updated Sept 2023)

		0M	1M	2M	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	15M	16M	17M	18M	19M	20M	21M	22M	23M	24M	25M	26M	27M	28M	29M	30M	31M	32M	33M	34M	35M	36M
PROJECT CONSTRUCTION	Clearing & Grubbing, Utility Prep				PR#1				PR#2				PR#3																										
	Utility Window																UTILITY WINDOW (does not indicate no available roadway)																								
	Contractor Activity (LET DATE TBD)																	WO#1 (Culverts on US 21; new Gold Hill and Flint Rd; Some portions of US 21)											WO#2: Remaining project (Completion date - TBD)								
UTILITY RELOCATIONS	**Overhead**																																					
	York Electric Coop					WO #1				WO#2										WO#3																		
	Charter								WO #1			WO #2												WO #3														
	Verizon											WO #1		WO #2											WO #3													
	Lumen													WO #1														WO #3										
	Underground																																					
	Verizon (T6)									WO #4																												
	Charter (TV2, T2)												WO #4																									
	Lumen (T4)											WO#2																										
	Zayo							WO #1			WO #2																											
	Comporium									WO #1							WO #2																					
	YCNGA							WO #1																														
	Windstream							WO #1																														
	AT&T (completed)																																					
	YC Water and Sewer																	In-Contract (IC)																				
	Fern Forest Water																In-Contract										IC											

UTILITY WINDOW (does not indicate no available roadway) — WO#1 (Culverts on US 21; new Gold Hill and Flint Rd; Some portions of US 21) — WO#2: Remaining project (Completion date - TBD)

UTILITY RELOCATION WORK ORDER (SEE DETAILS BELOW) - ALL UTILITY RELOCATIONS WILL BEGIN UNDER EARLY CLEARING AND GRUBBING CONTRACT. UPDATES WILL BE MADE AT THE TIME OF OVERALL PROJECT LET.

WORK AREAS, CONTRACTOR ACTIVITY, AND PRECEDING RELOCATION REQUIRED FOR UTILITY RELOCATION

York Electric Cooperative (E1):
WO #1: SC 51 (need clearing and new alignment graded)
WO #2: Old Nations to SC 51
WO#3: Remaining US 21 (require fill efforts from prime)

Charter (TV2, T2):
WO #1: SC 51 (need clearing/grading & YEC OH)
WO #2: Old Nations to SC 48 (need clearing/grading & YEC OH)
WO #3: Remaining US 21 (need YEC OH)
WO #4: US 21 - UG from Sta 45+00 to 72+00

Verizon (T6):
WO #1: SC 51 (need clearing/grading & YEC OH)
WO #2: Old Nations to SC 48 (need clearing/grading & YEC OH)
WO #3: Remaining US 21 (need YEC OH)
WO #4: US 21 - UG from Sta 45+00 to 61+00

Zayo (T5):
WO #1: Gold Hill to SC 51 & SC 51 (need clearing/grading)
WO #2: SC 460 to Gold Hill (need clearing/grading)

Comporium (T1):
WO #1: Gold Hill to SC 51 & SC 51 (need clearing/grading)
WO #2: SC 460 to Gold Hill (need clearing/grading)

AT&T (T3):
Work is complete for Encrochment #A029Y30

Windstream:
WO #1: Adjust as needed; 1 month notification

Lumen (T4):
WO #1: Old Nations to end of SC 51 (OH) (need YEC & Tele OH
WO #2: Gold Hill to Old Nations (UG only) (need C&G)
WO #3: All remaining OH (need YEC OH & Other OH Telecoms

YCNGA (G1):
WO #1: SC 51 (need clearing & grubbing)
WO#2: All remaining relocations

York County Water/Sewer (W1/SS1):
In-contract

Fern Forest Water (T2):
In-contract (2 parts)

Clearing Priorities:
PR#1:
C&G SC51 and Flint Hill Road (new and existing); Includes rough grading new alignments of existing ground
PR#2:
C&G RT/LT Side from Gold Hill to SC 43 and cut from Sta 44+00 to 54+00 LT on US 21; Includes rough grading for new alignment for Gold Hill of existing ground
PR#3:
Remaining project

STV Incorporated
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YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

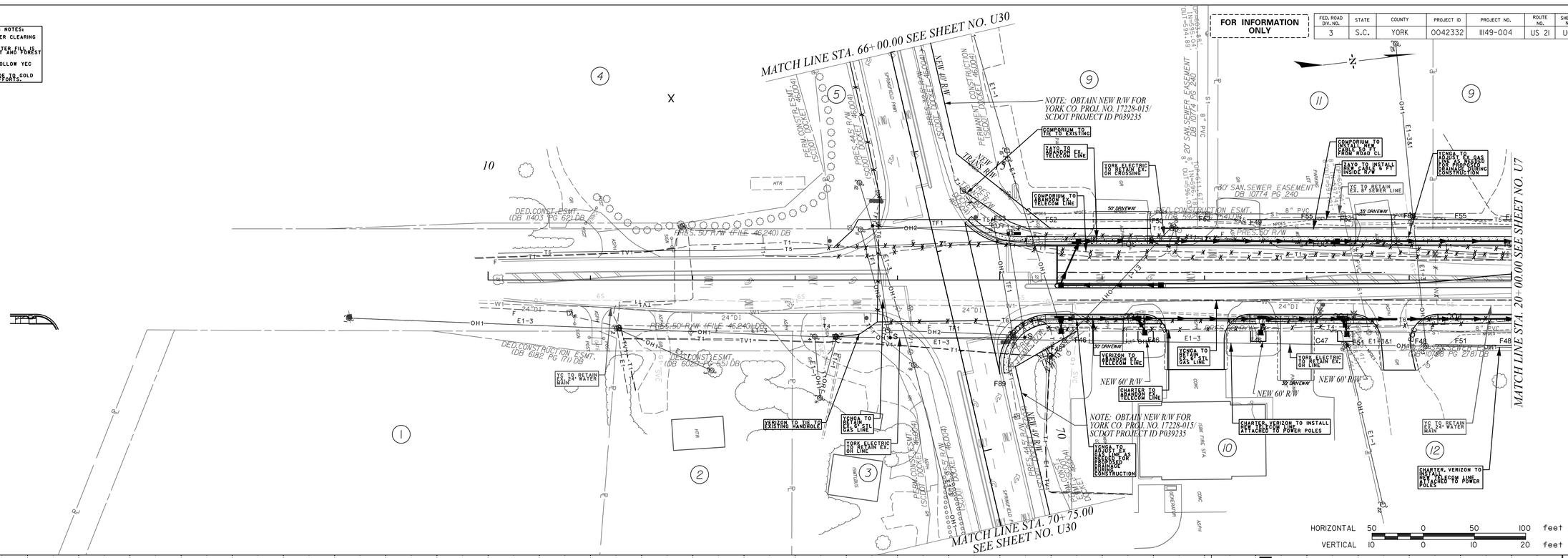
UTILITY GENERAL NOTES SHEET

SCALE: N/A RTE. US 21 DWG. NO. U5

PHASE 3 UTILITY RELOCATIONS NOTES:
COMPORIUM TO RELOCATE AFTER CLEARING EFFORTS.
YEC TO RELOCATE OH LINE AFTER FILL IS PLACED BETWEEN FERN FOREST AND FOREST DRIVE
CHARTER AND VERIZON WILL FOLLOW YEC RELOCATIONS.
ZAYO TO RELOCATE ON LT SIDE TO GOLD HILL ROAD AFTER CLEARING EFFORTS.

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	U6



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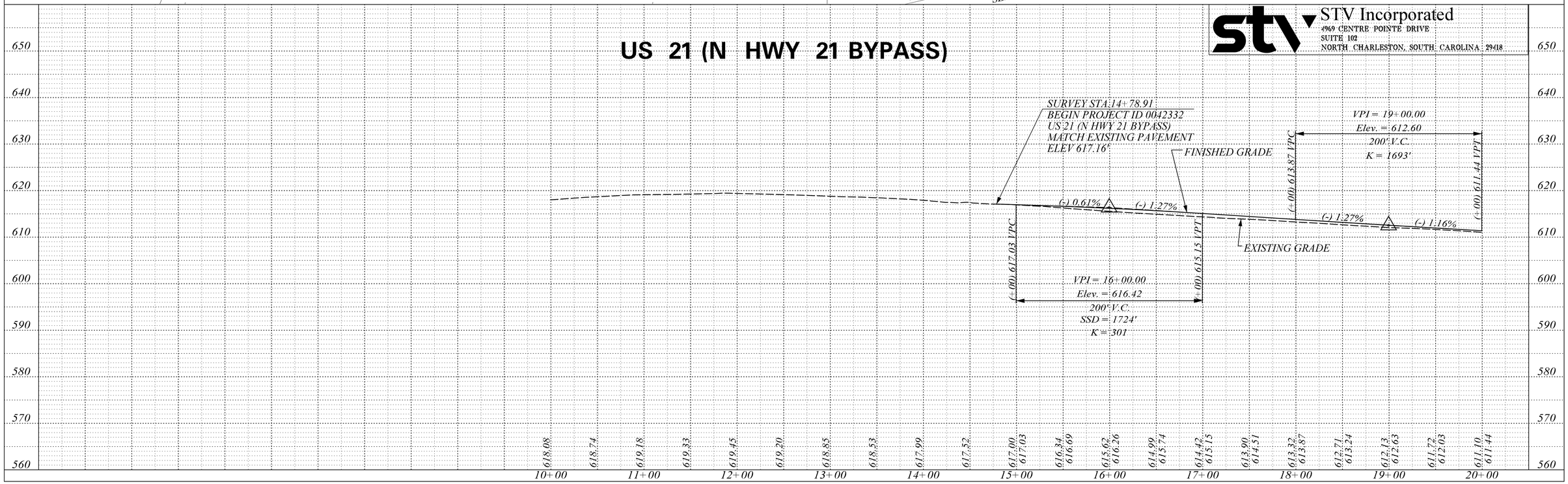
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

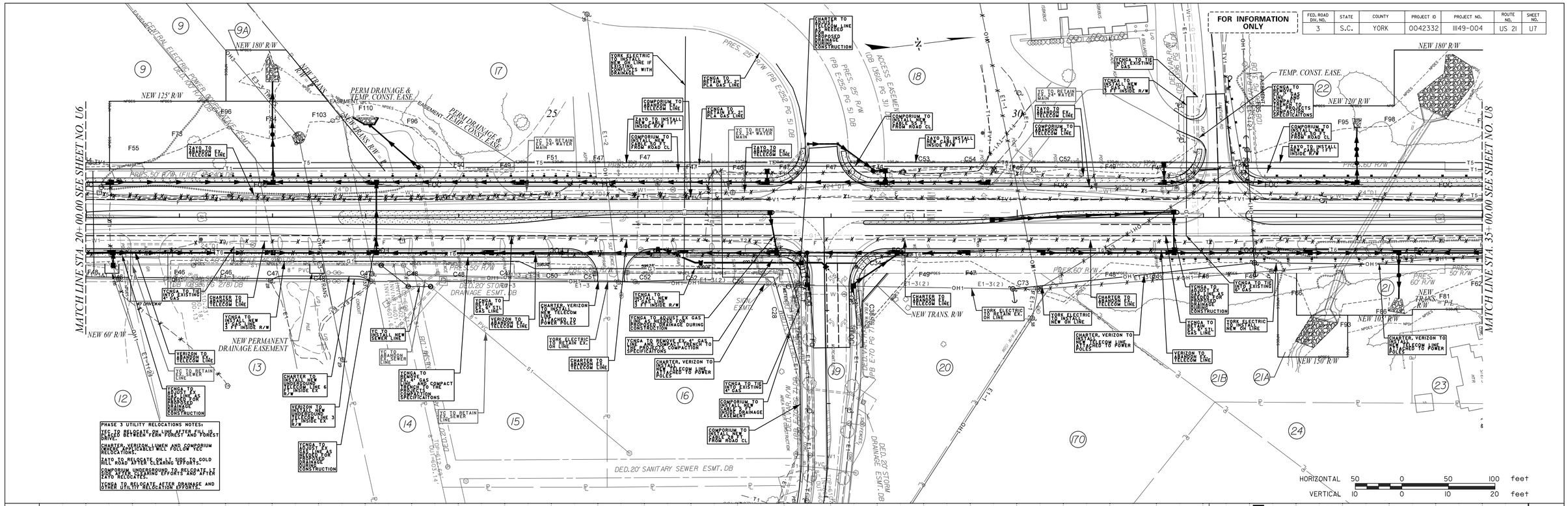
US 21 (N HWY 21 BYPASS)



PROLINE.DGN

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	U7

FOR INFORMATION ONLY



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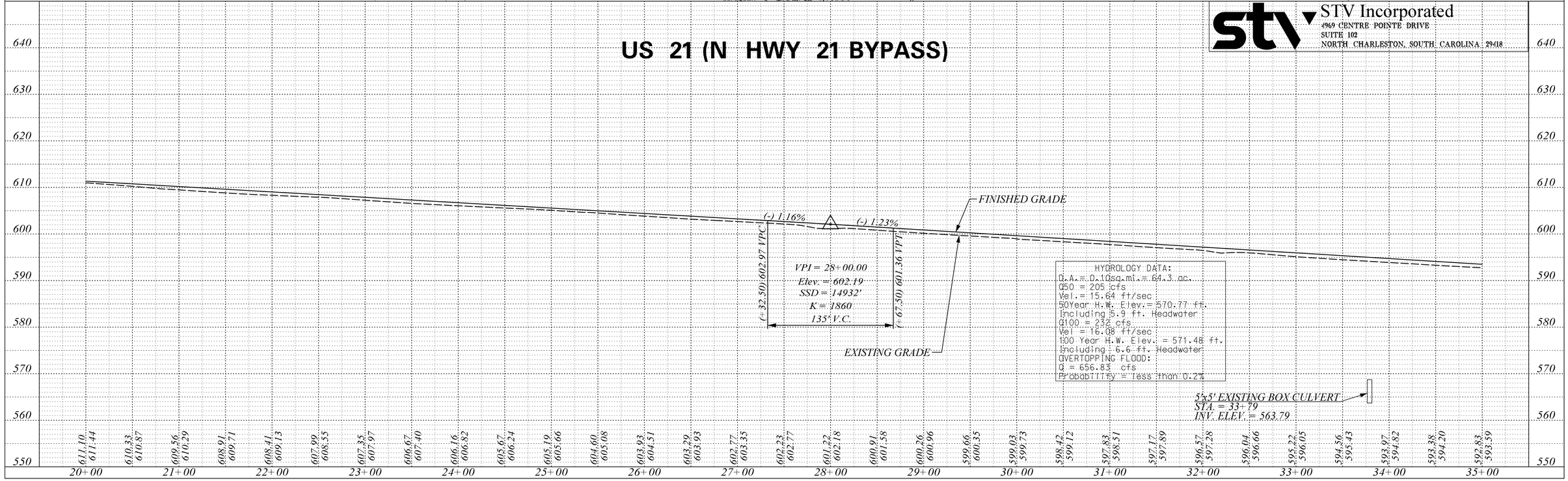
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)



PROLINE.DGN

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	III49-004	US 21	U8

PHASE 2 UTILITY RELOCATIONS NOTES:
CLEARING AND GRADING OF CUT SIDE FROM STATION 39+00 AND CUT SIDE FROM STATION 41+00 TO BE COMPLETED BEFORE GRADING FOR NEW ALIGNMENT FOR GOLD HILL.
AFTER CLEARING/GRADING IS COMPLETE IN AREA, RELOCATE ALL POLES IN THIS AREA.
VERIZON HAS 2 DAYS FOR POLE GOLD HILL TO VERIZON HAS TO INCLUDE THEIR DELAY FROM PREVIOUS TO PUBLIC TRENCH, PERFORM WORK AND RESET IF WE HOLD UP COMPORIUM.
VERIZON HAS 10 DAYS FROM RECEIPT OF NOTICE TO RELOCATE ON LINE 1 FROM STATION 39+00 TO 41+00 AT RIGHT ROW, DRAINAGE DEPTH AND COMPORIUM.

PHASE 3 UTILITY RELOCATIONS NOTES:
COMPORIUM UNDERGROUND TO RELOCATE AFTER CLEARING, GRADING, AND PAVING TO BE COMPLETED BY SUBCONTRACTOR DURING CONVERSION OF OH1 TO 90' (CAN'T ALIGN DUE TO CATS AND/OR CLEARING EFFORTS.
FF-FO BETWEEN FRN FOREST AND FOREST DRIVE.
CHARTER, VERIZON AND LUMEN TO FOLLOW DUE AS ABOVE.
ZAYO TO RELOCATE ON LT SIDE TO CONO, UNDERGROUND TO POLE, MAINLINE CUTS ARE BETWEEN LAKESHORE AND GOLD HILL

MATCH LINE STA. 35+00.00 SEE SHEET NO. U7

MATCH LINE STA. 50+00.00 SEE SHEET NO. U9

HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

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4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

HYDROLOGY DATA:
D.A. = 0.142sq.mi. = 90.9 ac.
Q50 = 249 cfs
Vel. = 14.65 ft/sec
50Year H.W. Elev. = 574.56 ft.
Including 7.1 ft. Headwater
Q100 = 281 cfs
Vel = 15.06 ft/sec
100 Year H.W. Elev. = 575.56 ft.
Including 8.1 ft. Headwater
OVERTOPPING FLOOD:
Q = 589.95 cfs
Probability = less than 0.2%

VPI = 41+00.00
Elev. = 586.22
K = 106
430' V.C.

(+ 85) 588.86 VPC

(+ 15) 592.31 VPT

LOW POINT
40+15.01
ELEV. = 588.06

(-) 1.23%

(+) 2.84%

FINISHED GRADE

EXISTING GRADE

5'x5' EXISTING BOX CULVERT
STA. = 41+06
INV. ELEV. = 566.73

	35+00	36+00	37+00	38+00	39+00	40+00	41+00	42+00	43+00	44+00	45+00	46+00	47+00	48+00	49+00	50+00
	592.83	592.29	591.64	590.92	590.32	589.66	589.01	588.46	587.95	587.49	587.28	587.42	587.81	588.40	589.13	590.02
	593.59	592.98	592.36	591.75	591.13	590.52	589.90	589.29	588.68	588.26	588.07	588.12	588.40	588.92	589.68	590.67
	591.00	592.31	593.79	595.32	596.83	598.30	599.74	601.18	602.58	604.01	605.45	606.87	608.29	609.74	611.20	
	591.90	593.31	594.72	596.14	597.56	598.98	600.39	601.81	603.23	604.65	606.07	607.48	608.90	610.32	611.74	

640 630 620 610 600 590 580 570 560 550

PROLINE.DGN

PHASE 2 UTILITY RELOCATIONS NOTES:

CLEARING AND GRADING RT/LT SIDE FROM GOLD HILL TO STA 50+00 AND CUT FROM STA 50+00 TO STA 53+65 OR DEPENDING ON FINES GRADING FOR NEW ALIGNMENT FOR GOLD HILL

ZATO TO RELOCATE TO SIDE TO BE IN AFTER CLEARING/GRADING IS COMPLETE.

BT SIDE UNDERGROUND 7BFORM RELOCATION SEQUENCE: VERIZON > COMPORIUM > LOWEN > CHARTER

PHASE 3 UTILITY RELOCATIONS NOTES:

COMPORIUM TO RELOCATE BOTH SIDES AFTER CLEARING EFFORTS.

YFC TO RELOCATE ON LINE AFTER FILL IS PLACED BETWEEN FERN FOREST AND FOREST DRIVE.

CHARTER AND VERIZON WILL FOLLOW YFC RELOCATIONS.

ZATO TO RELOCATE ON LT SIDE TO GOLD HILL AFTER CLEARING EFFORTS

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	US 21	U9

MATCH LINE STA. 31+00.00 S-1726 (GOLD HILL ROAD) SEE SHEET NO. U19

MATCH LINE STA. 50+00.00 SEE SHEET NO. U8

MATCH LINE STA. 65+00.00 SEE SHEET NO. U10

E STA. 12+50.00 US 21 BUSINESS SEE SHEET NO. U20

HORIZ 50 0 50 100 feet
VERT 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

HIGH POINT
STA. 62+65.06
ELEV. = 642.15

(+) 2.84% *(-) 1.29%*

FINISHED GRADE

EXISTING GRADE

(+)80) 636.69 VPC

(+)40) 641.03 VPT

VPI = 61+60.00
Elev. = 644.63
SSD = 541'
K = 136
560' V.C.

| | | |

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	U10

FOR INFORMATION ONLY

PHASE 2 UTILITY RELOCATIONS NOTES:

CLEARING AND GRADING BY/OT SIDE FROM STATION 74+00 NB TO STATION 68+00 FOR GRADING FOR NEW ALIGNMENT FOR SOLD HILL

FEC WILL NEED FALL OPERATIONS TO BE ADJUSTED FOR NEW ALIGNMENTS-CO AND BAXTER TO BEGIN RELOCATIONS

ZAYO TO INSTALL UG LINE ON L/T SIDE FROM MANHOLE #1 TO #2 AND TIE TO EXISTING TIE POINT ON EXISTING SCSE

RT SIDE UNDERGROUND TELECOM RELOCATION SEQUENCE COMPORIUM > LUMEN > CHARTER

MATCH LINE STA. 65+00.00 SEE SHEET NO. U9

MATCH LINE STA. 80+00.00 SEE SHEET NO. U11

MATCH LINE STA. 77+00.00 OLD NATION ROAD SEE SHEET NO. 20

HORIZONTAL 50 0 50 100 feet

VERTICAL 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

VPI = 69+00.00
Elev. = 635.10
K = 180
550' V.C.

(+ 25) 638.64 VPC

(+ 75) 639.95 VPT

LOW POINT
STA. 68+57.13
ELEV. = 637.15

(-) 1.29%

(+) 1.76%

FINISHED GRADE

EXISTING GRADE

(+) 1.76%

(+) 1.22%

(+ 10) 649.39 VPC

VPI = 79+60.00
Elev. = 633.80
SSD = 612'
K = 168
500' V.C.

	65+00	66+00	67+00	68+00	69+00	70+00	71+00	72+00	73+00	74+00	75+00	76+00	77+00	78+00	79+00	80+00
670																
660																
650																
640																
630																
620																
610																
600																
590																
580	639.71 640.25	639.00 639.61	638.29 638.96	637.61 638.34	637.07 637.83	636.68 637.47	636.53 637.24	636.50 637.15	636.59 637.20	636.91 637.39	637.36 637.71	637.92 638.18	638.49 638.78	639.08 639.53	639.69 640.39	640.40 641.27	641.12 642.16	641.84 643.04	642.61 643.92	643.37 644.80	644.30 645.68	645.42 646.57	646.54 647.45	647.62 648.33	648.65 649.21	649.50 650.05	650.23 650.74	650.72 651.27	651.07 651.66	651.33 651.91	651.42 652.00

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	U11

FOR INFORMATION ONLY

PHASE 2 UTILITY RELOCATIONS NOTES:
CLEARING AND GRADING AT L.T. SIDE FROM STA. 79+00 TO STA. 81+00 AND FROM STA. 83+00 TO STA. 85+00 OR BEYOND LIMITS FOR GRADING FOR NEW ALIGNMENT FOR SOLD HILL

ZAYO TO INSTALL UNDERGROUND 12± FEET RIGHT OF EXIST. CENTERLINE DRAINAGE ASSETS AND 4± FEET OF EXISTING R/W STATION 80+00 AND 4± FEET OF EXISTING R/W STATION 80+00 AND 12± FEET DEEP UNTIL SECTION 83+00 WHERE THERE IS BETTER SEPARATION.

COMPORIUM TO INSTALL UNDERGROUND 12± FEET RIGHT OF EXIST. CENTERLINE DRAINAGE ASSETS AND 4± FEET OF EXISTING R/W STATION 80+00 AND 12± FEET DEEP UNTIL SECTION 83+00 WHERE THERE IS BETTER SEPARATION.

MATCH LINE STA. 80+00.00 SEE SHEET NO. U10

MATCH LINE STA. 95+00.00 SEE SHEET NO. U12

MATCH LINE STA. 12+00.00 J3-107 (REGENT PARKWAY) SEE SHEET NO. U25

HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)

VPI = 87+85.00
Elev. = 643.75
K = 82
280' V.C.
(+45) 645.46 VPC
(+25) 646.81 VPT
LOW POINT STA. 87+45.14 ELEV. = 644.85
(-) 1.22%
(+) 2.19%
FINISHED GRADE
EXISTING GRADE

HIGH POINT STA. 80+05.77 ELEV. = 652.00
(-) 1.22%
(+10) 650.75 VPT
VPI = 79+60.00
Elev. = 653.80
SSD = 612'
K = 168
500' V.C.

	80+00	81+00	82+00	83+00	84+00	85+00	86+00	87+00	88+00	89+00	90+00	91+00	92+00	93+00	94+00	95+00
EXISTING	652.00	651.94	651.73	651.38	650.87	650.27	649.66	649.05	648.44	647.83	647.22	646.61	646.00	645.40	644.97	645.03
FINISHED	652.00	651.45	651.29	650.96	650.46	648.92	648.41	648.56	647.91	647.30	646.67	646.02	645.38	644.81	644.42	644.34
	644.85	645.51	645.74	646.30	646.69	647.36	647.60	648.45	648.87	649.55	650.15	650.64	651.19	651.74	652.26	652.83
	653.24	653.92	654.38	655.02	655.54	656.11	656.70	657.21	657.83	658.30	658.88	659.39				

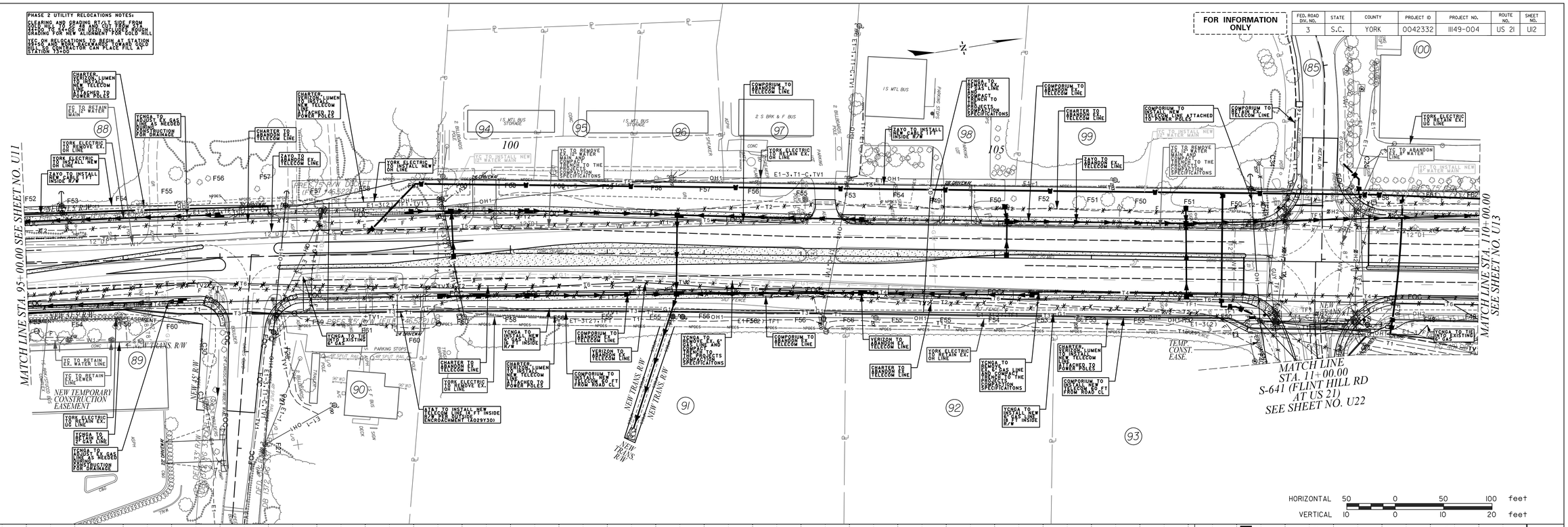
PROLINE.DGN

PHASE 2 UTILITY RELOCATIONS NOTES:
CLEARING AND GRADING RT/LT SIDE FROM STATION 93+50 ON 2ND SLOPE FROM STA. 93+50 TO STA. 95+00 ON 2ND SLOPE ROUGH GRADING FOR NEW ALIGNMENT FOR GOLD HILL

YGC-ON RELOCATIONS TO BEGIN AT STATION 95+50 AND WORK BACKWARDS TOWARD GOLD HILL. GC CONTRACTOR CAN PLACE FILL AT STATION 93+00

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21	U12

FOR INFORMATION ONLY



HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

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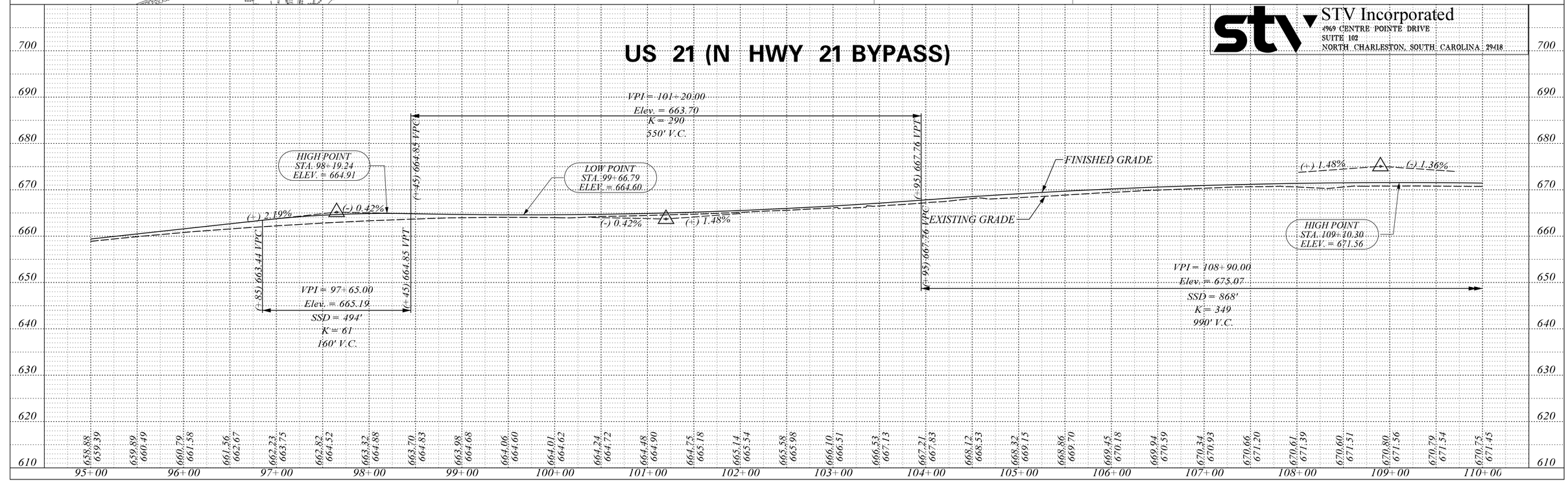
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

US 21 (N HWY 21 BYPASS)



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FOR INFORMATION ONLY	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	US 21	U13

PHASE 2 UTILITY RELOCATIONS NOTES:
CLEARING AND GRADING AT/E SIDE FROM STA. 110+00 TO STA. 114+00 MUST BE COMPLETE FOR GRADING FOR NEW ALIGNMENT FOR SOLD HILL
CHARTER TO RELOCATE BEFORE WATER LINE INSTALLATIONS BEGIN.

MATCH LINE STA. 110+00.00 SEE SHEET NO. U12

MATCH LINE SEE SHEET NO. U31

MATCH LINE STA. 125+00.00 SEE SHEET NO. U14

MATCH LINE STA. 314+50.00 OLD SC 51 SEE SHEET NO. U21

NEW CONSTRUCTION

PRES. 100' R/W

PRES. VAR. R/W

PRES. 75' R/W

NEW TRANS. R/W

P/L = NEW TRANS. R/W

NEW 115' R/W

TRAVEL LANE

40' DRIVEWAY

PARKING STOPS

DED. VAR R/W (DB 13742 PG 48) DB

DED. VAR R/W (PB E186 PG 81) DB

DED. ACCESS ESMT. (PB E-129 PG 71) DB

DECEL/DOUBLE WATERLINE ESMT. (PB E-129 PG 71) DB

20' DRAINAGE & UTILITY ESMT. PB 112 PG 2

HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

US 21 (N HWY 21 BYPASS)

VPI = 108+90.00
Elev. = 675.07
SSD = 868'
K = 349
990' V.C.

(-) 1.36%

(L=85) 668.84 VPT

FINISHED GRADE

EXISTING GRADE

	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00
700																
690																
680																
670	670.75	670.81	670.56	670.27	669.91	669.40	668.78	668.26	667.59	666.87	666.14	665.49	664.78	664.07	663.47	662.84
	671.45	671.28	671.05	670.74	670.36	669.91	669.39	668.79	668.13	667.45	666.77	666.09	665.41	664.73	664.05	663.37
660																
650																
640																
630																
620																
610																

	662.18	661.36	660.65	659.99	659.30	658.52	657.75	657.37	656.69	655.97	655.35	654.66	654.06	652.92	652.37
	662.69	662.01	661.33	660.65	659.97	659.29	658.61	657.93	657.25	656.57	655.89	655.21	654.53	653.85	653.17

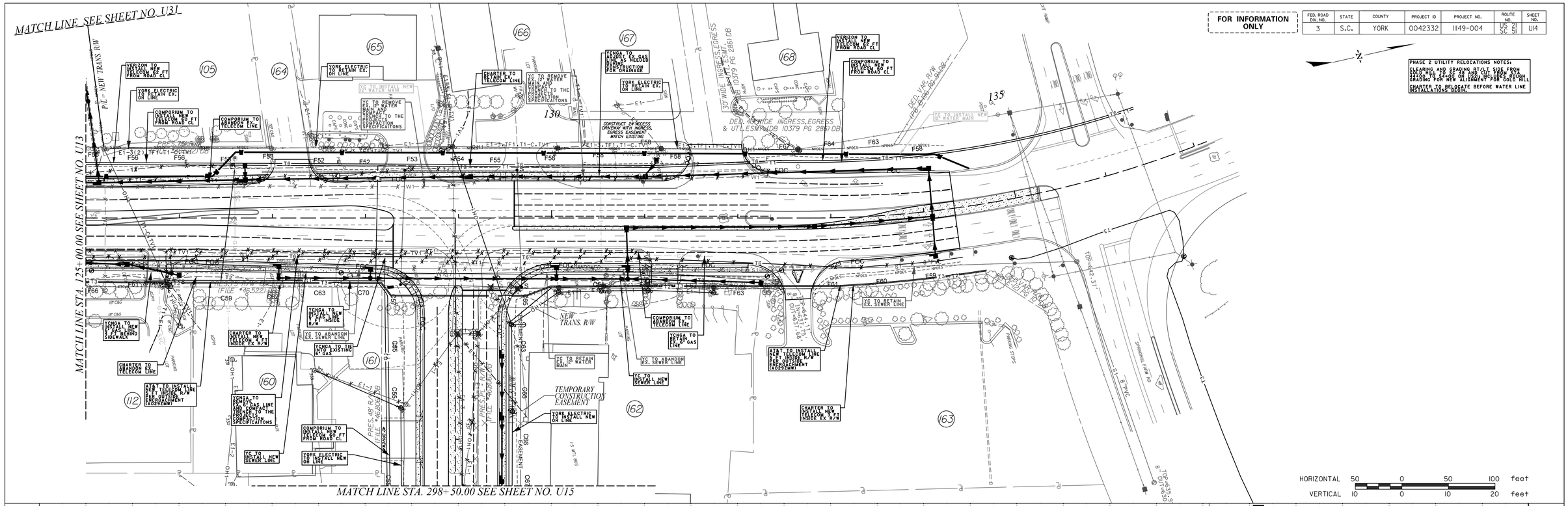
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

PROLINE.DGN

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	U14

FOR INFORMATION ONLY

PHASE 2 UTILITY RELOCATIONS NOTES:
CLEARING AND GRADING RT/LT SIDE FROM 0+00 TO 44+00 AND CUT FROM 0+00 TO 44+00 OR 0+00 INCLUDES ROUGH GRADING FOR NEW ALIGNMENT FOR GOLD HILL
CHARTER TO RELOCATE BEFORE WATER LINE INSTALLATIONS BEGIN.



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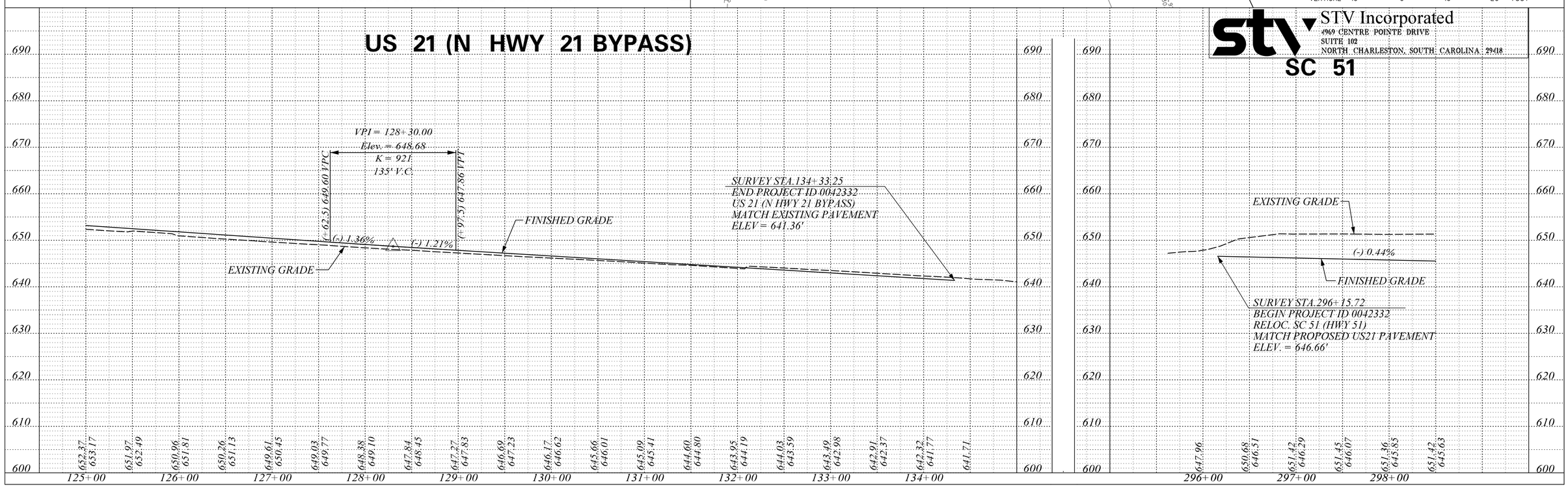
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



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FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	U15

PHASE 1 UTILITY RELOCATIONS NOTES:
CLEAR & GRUB SCSL AND ELIST HILL ROAD. (NEW & EXISTING) INCLUDE ROUGH GRADING NEW ALIGNMENTS

MATCH LINE STA. 298+50.00 SEE SHEET NO. U14

MATCH LINE STA. 303+00.00
OLD SC 51
SEE SHEET NO. U21

MATCH LINE STA. 313+50.00 SEE SHEET NO. U16

TEMPORARY CONSTRUCTION EASEMENT

NEW TRANS. R/W

NEW 57.5' R/W

NEW 45' R/W

NEW 45.5' R/W

NEW 60' R/W

TEMP. CONST. EASE.

PRES. 65' R/W

PRES. 60' R/W

PRES. 50' R/W

PRES. 45' R/W

PRES. 40' R/W

EASEMENT

FOC

OHT

OHP

YORK ELECTRIC TO INSTALL NEW OH LINE

LUMEN TO ABANDON EX. TELECOM LINE

VERIZON TO ABANDON EX. TELECOM LINE

COMPORIUM TO INSTALL NEW TELECOM LINE FROM ROAD CL

COMPORIUM TO ABANDON EX. TELECOM LINE

ZAYO TO INSTALL NEW TELECOM LINE TO 1 FT INSIDE R/W

YCNGA TO INSTALL NEW 2" GAS LINE AND CONFORM TO THE CONTRACT PROJECTS SPECIFICATIONS

YCNGA TO ABANDON EX. GAS LINE

YORK ELECTRIC TO ABANDON EX. OH LINE

VERIZON LUMEN TO INSTALL NEW TELECOM WIRE ON ATTACHED TO POWER POLES

300 305 310

114 115 115A 119 120 121 22 23 23A 159 162

-N-

HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51

(-) 3.33%

(+) 0.44%

(+60) 644.71 VPC

(+60) 639.06 VPT

VPI = 302+10.00
Elev. = 644.05
SSD = 524'
K = 104
300' V.C.
DS = 45 MPH

FINISHED GRADE

EXISTING GRADE

| | | |

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	U16

FOR INFORMATION ONLY

PHASE 1 UTILITY RELOCATIONS NOTES:
CLEAR & GRUB SC51 AND FLINT HILL ROAD NEW ALIGNMENTS INCLUDE ROUGH GRADING

MATCH LINE STA. 313+50.00 SEE SHEET NO. U15

MATCH LINE STA. 328+50.00 SEE SHEET NO. U17

MATCH LINE STA. 29+00.00
S-48 (SPRINGHILL FARM ROAD RELOC.)
SEE SHEET NO. U23

MATCH LINE STA. 17+00.00
S-641 (FLINT HILL AT SC 51)
SEE SHEET NO. U22

HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

SC 51

VPI = 316+15.00
Elev. = 597.33
K = 84
490' V.C.
DS = 45 MPH

(+ 70) 605.48 VPC

LOW POINT
STA. 316+49.93
ELEV. = 600.83

(-) 3.33%
(+) 2.50%

(+ 66) 603.45 VPT

FINISHED GRADE
EXISTING GRADE

6'x6' EXISTING BOX CULVERT
(EP-6) STA. = 316+23
INV. ELEV. = 589.30

HYDROLOGY DATA:
D.A.= 0.06sq.mi.= 38.5 ac.
Q50 = 53 cfs
Vel.= 8.53 ft/sec
50Year H.W. Elev.= 595.22 ft.
Including 4.0 ft. Headwater
Q100 = 59 cfs
Vel = 8.99 ft/sec
100 Year H.W. Elev. = 595.37 ft.
Including : 4.2 ft. Headwater
OVERTOPPING FLOOD:
Q = 271.31 cfs
Probability = less than 0.2%

(+ 85) 614.05 VPC

(+) 2.50%
(-) 0.31%

HIGH POINT
STA. 328+18.13
ELEV. = 620.70

VPI = 325+85.00
Elev. = 621.54
SSD = 684'
K = 214
600' V.C.
DS > 45 MPH

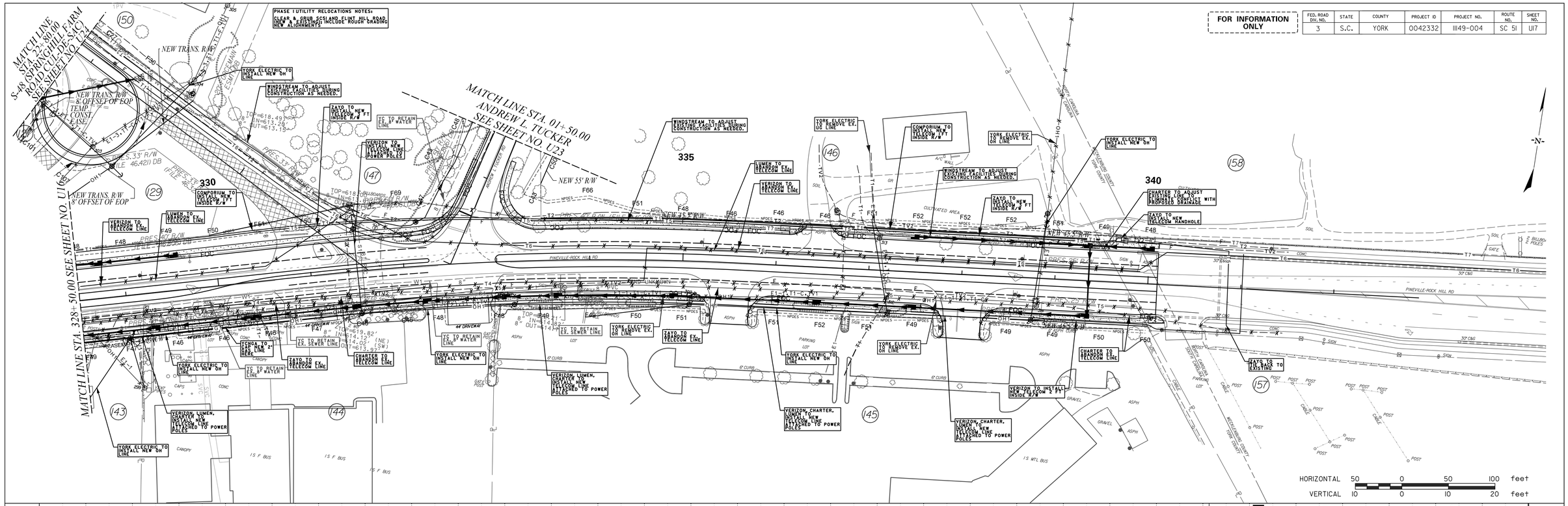
650 640 630 620 610 600 590 580 570 560

605.69 606.15 | 604.05 604.54 | 602.44 603.20 | 600.99 602.16 | 599.92 601.42 | 599.34 600.98 | 599.20 600.83 | 599.39 600.98 | 600.40 601.42 | 601.35 602.16 | 602.76 603.20 | 603.98 604.45 | 605.22 605.69 | 606.46 606.94 | 607.76 608.19 | 609.02 609.44 | 610.26 610.68 | 611.55 611.93 | 612.84 613.18 | 614.04 614.42 | 615.18 615.58 | 616.20 616.61 | 617.09 617.53 | 617.83 618.34 | 618.52 619.02 | 619.05 619.59 | 619.50 620.04 | 619.80 620.38 | 620.00 620.60 | 620.05 620.70 | 620.00 620.68

314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	SC 51	U17



SC 51

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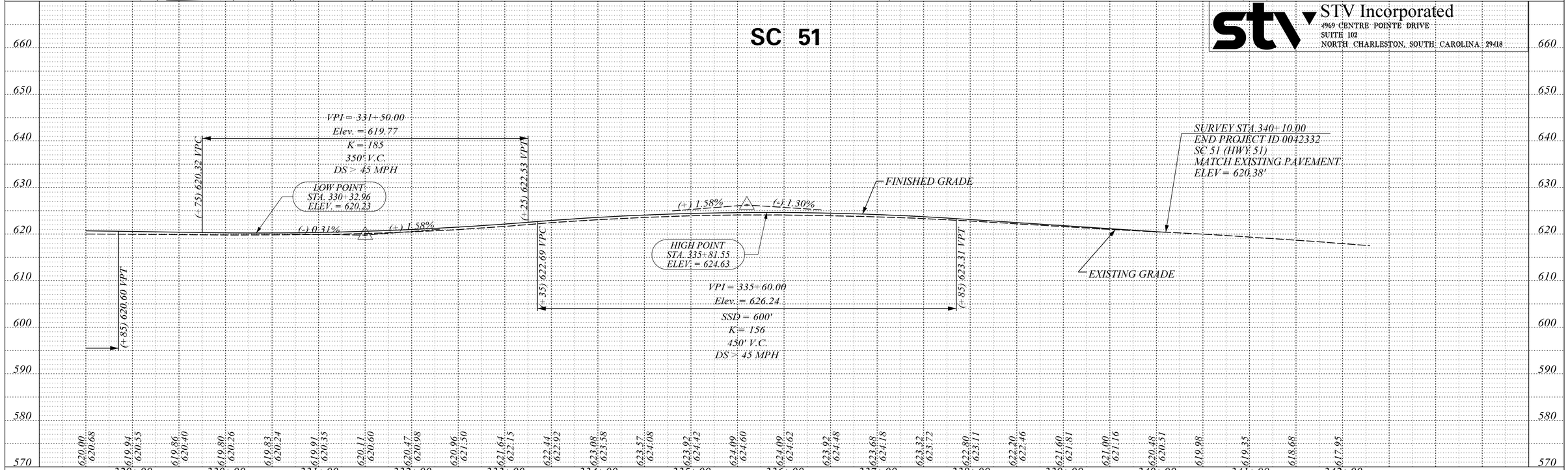
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



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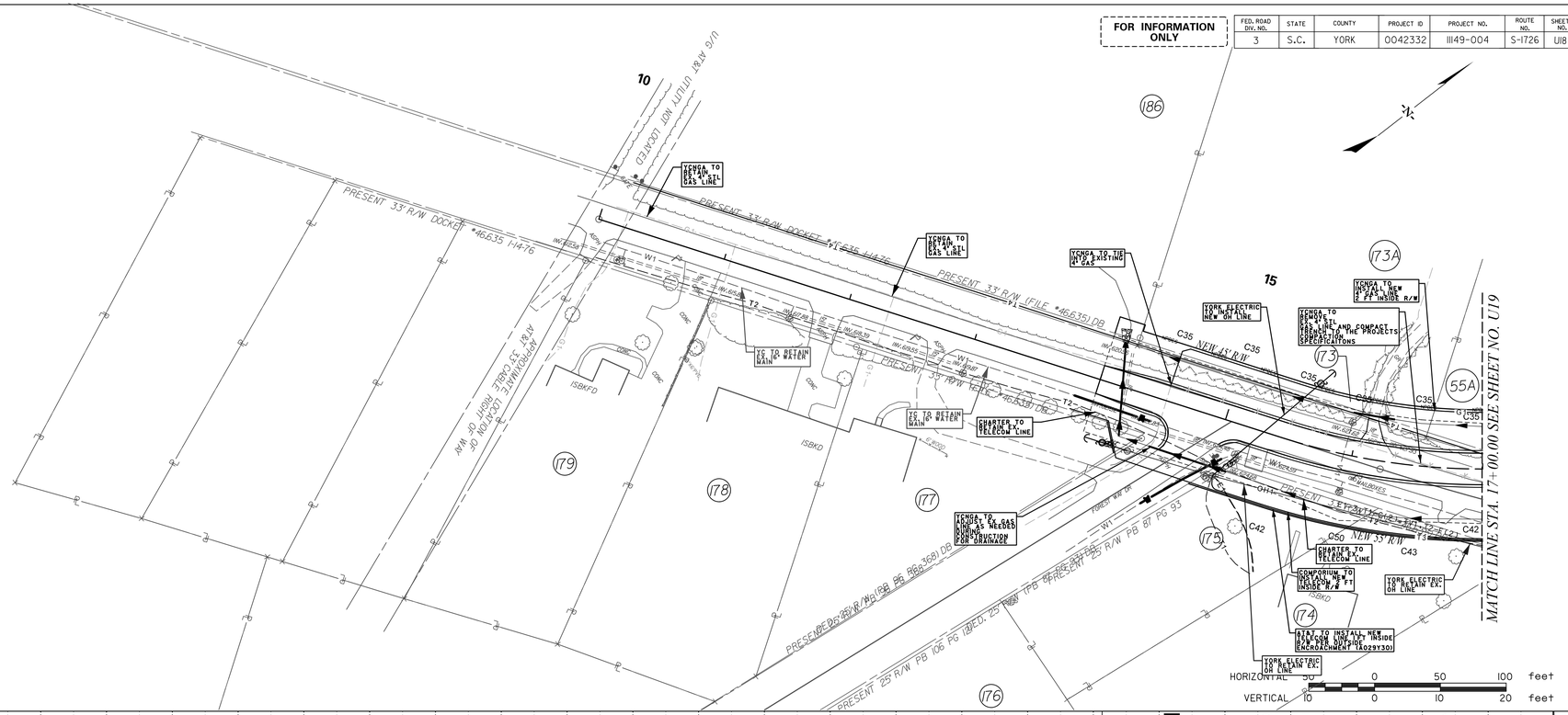
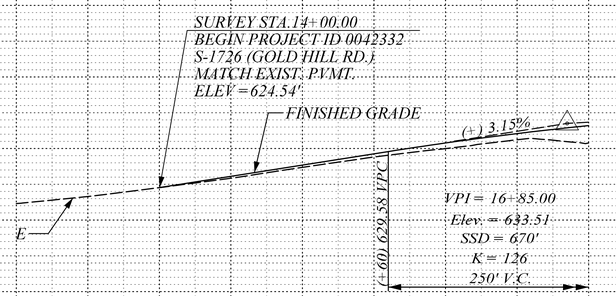
FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	S-1726	U18



S–1726 (GOLD HILL RD.)

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



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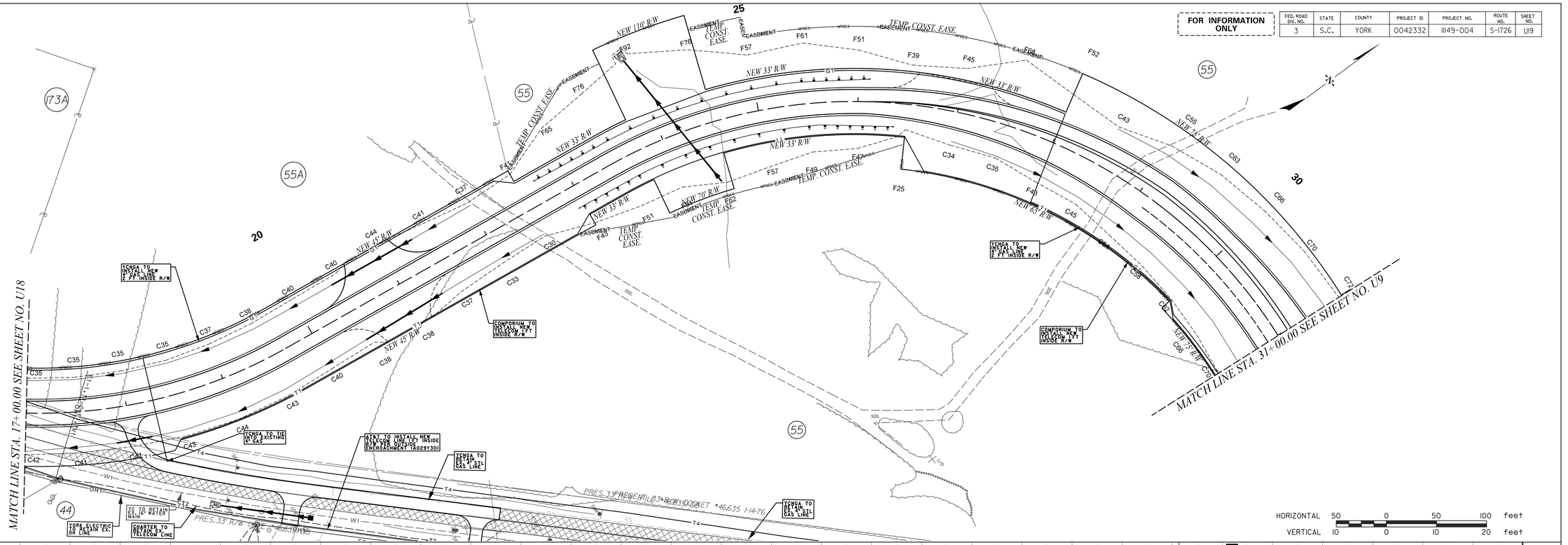
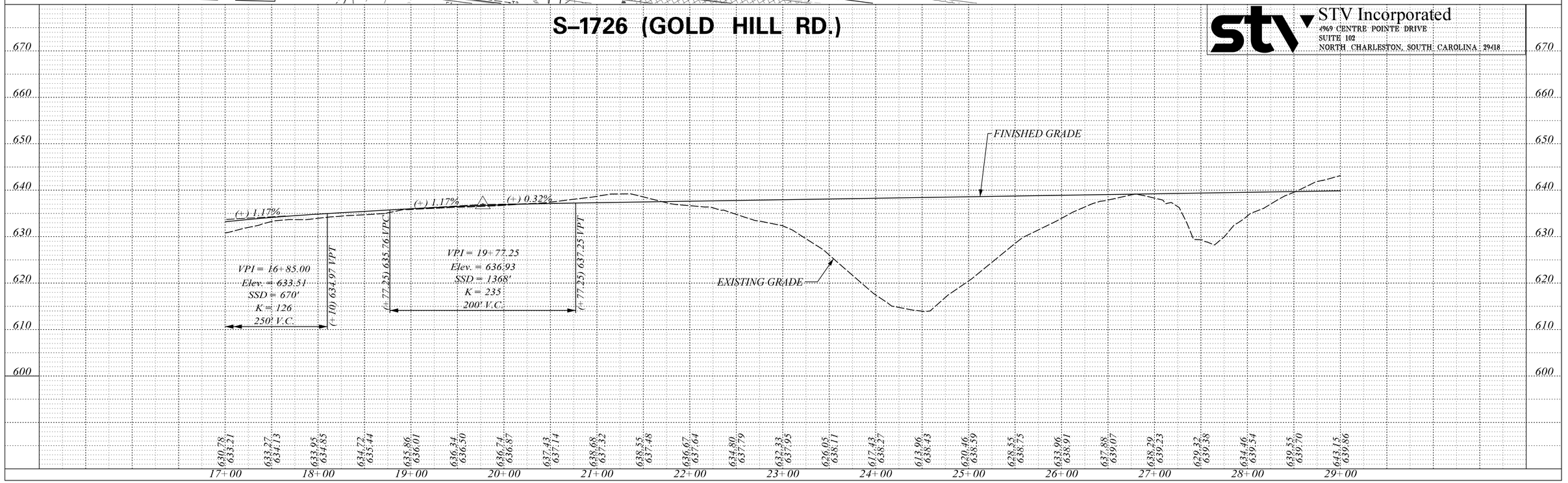
FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	S-1726	U19



S-1726 (GOLD HILL RD.)

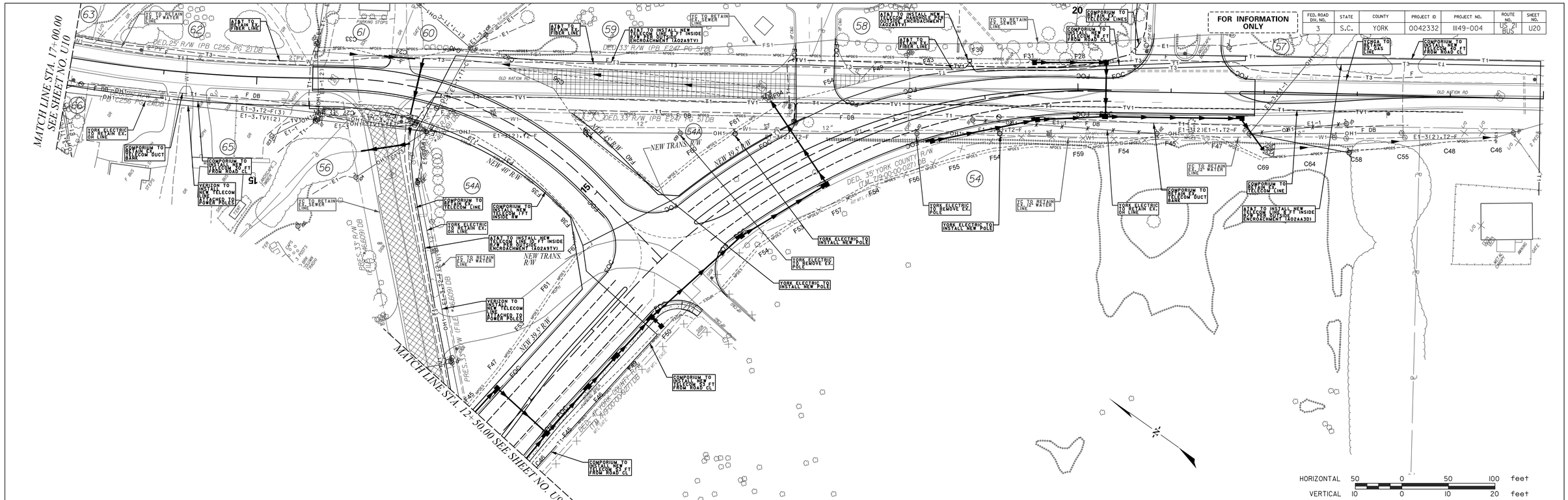
STV Incorporated
969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



PROLINE.DGN

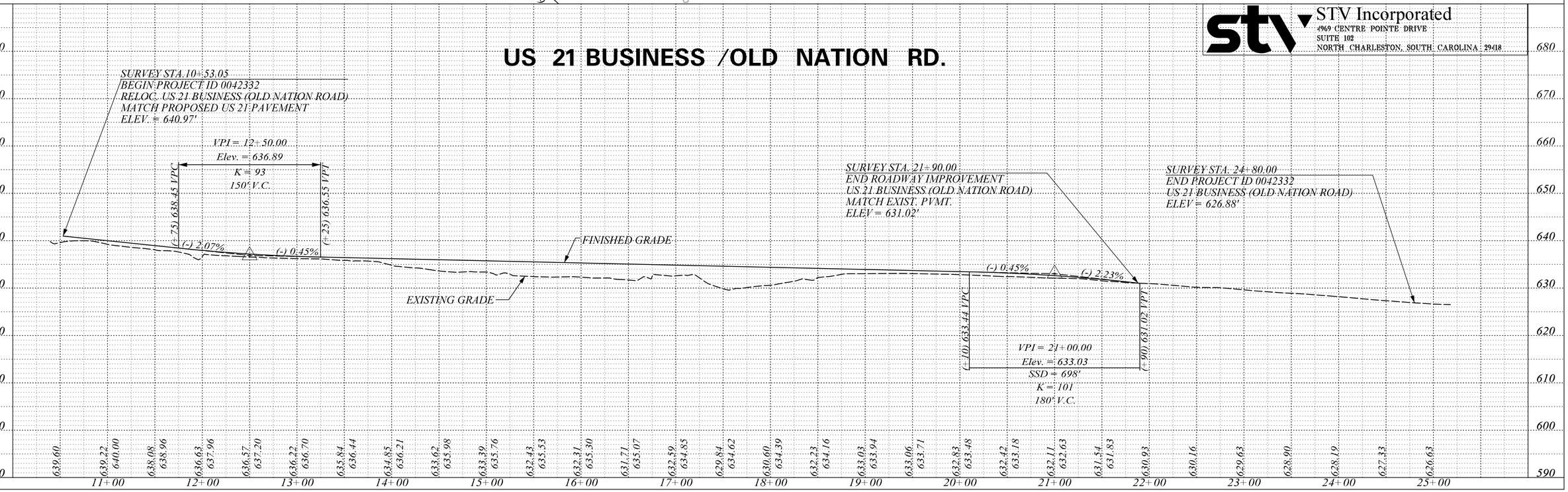
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 BUS	U20

FOR INFORMATION ONLY



STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

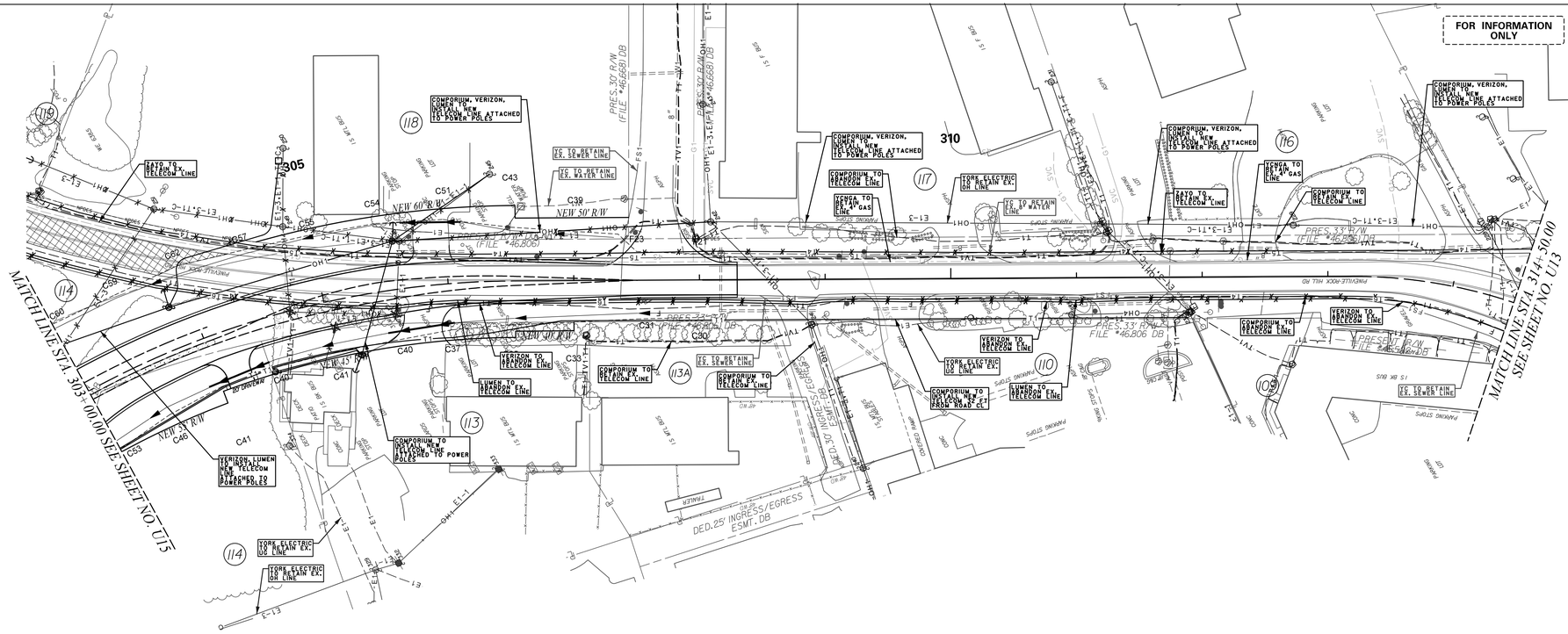
US 21 BUSINESS /OLD NATION RD.



PROLINE.DGN

FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	OLD SC 51	U21


MATCH LINE STA. 303+00.00 SEE SHEET NO. U15
MATCH LINE STA. 314+50.00 SEE SHEET NO. U13
NEW 60' R/W
NEW 50' R/W
NEW 35' R/W
PRES. 33' R/W FILE #46.806 DB
PRES. 30' R/W (FILE #46681) DB
PRESENT R/W FILE #46.806 DB
PRESENT R/W FILE #46.806 DB
PRESENT R/W FILE #46.806 DB
PRESVILLE-ROCK HILL RD
DED.25' INGRESS/EGRESS ESMT. DB
COMPORIUM, VERIZON, LUMEN TO INSTALL NEW TELECOM LINE ATTACHED TO POWER POLES
COMPORIUM TO ABANDON EX. TELECOM LINE
COMPORIUM TO INSTALL NEW TELECOM LINE ATTACHED TO POWER POLES
COMPORIUM TO INSTALL NEW TELECOM LINE 5' FROM ROAD CL
COMPORIUM TO RETAIN EX. TELECOM LINE
VERIZON TO ABANDON EX. TELECOM LINE
VERIZON TO RETAIN EX. TELECOM LINE
VERIZON, LUMEN TO INSTALL NEW TELECOM LINE ATTACHED TO POWER POLES
LUMEN TO ABANDON EX. TELECOM LINE
LUMEN TO RETAIN EX. TELECOM LINE
SCWGA TO RETAIN EX. 4" GAS LINE
TYC TO RETAIN EX. WATER LINE
YORK ELECTRIC TO RETAIN EX. OH LINE
YORK ELECTRIC TO RETAIN EX. UG LINE
YC TO RETAIN EX. SEWER LINE
YC TO RETAIN EX. WATERS LINE
SAYO TO RETAIN EX. TELECOM LINE
305
310
114
113
113A
118
117
116
110
109
119
C39
C40
C41
C43
C46
C48
C51
C54
C55
C80
C83
C85
C86
C87
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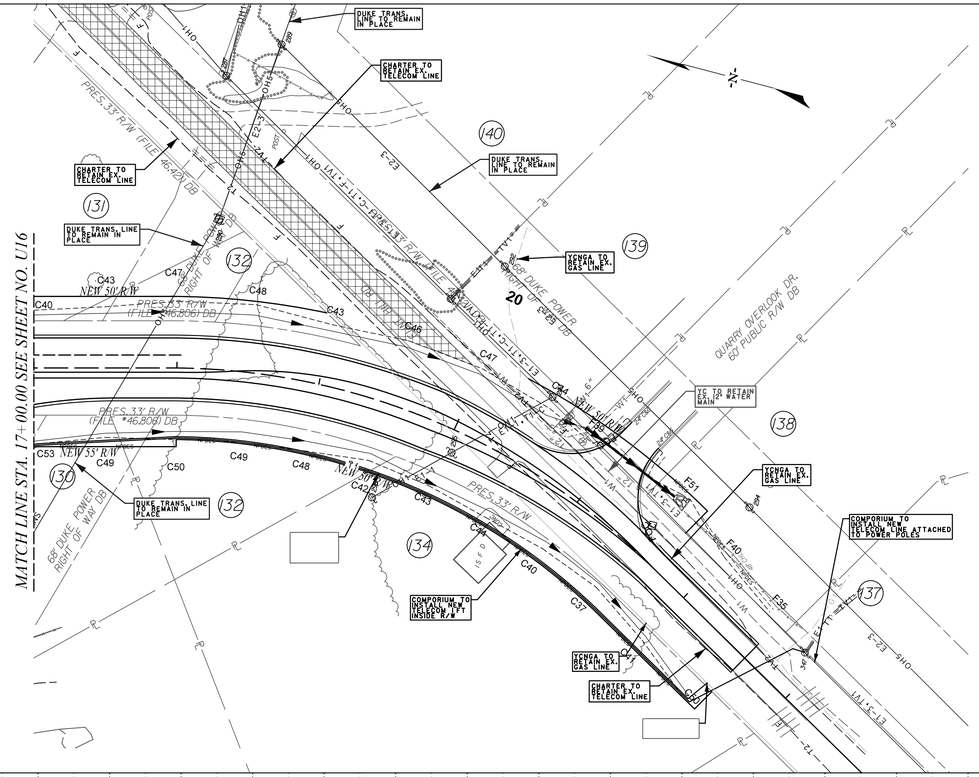
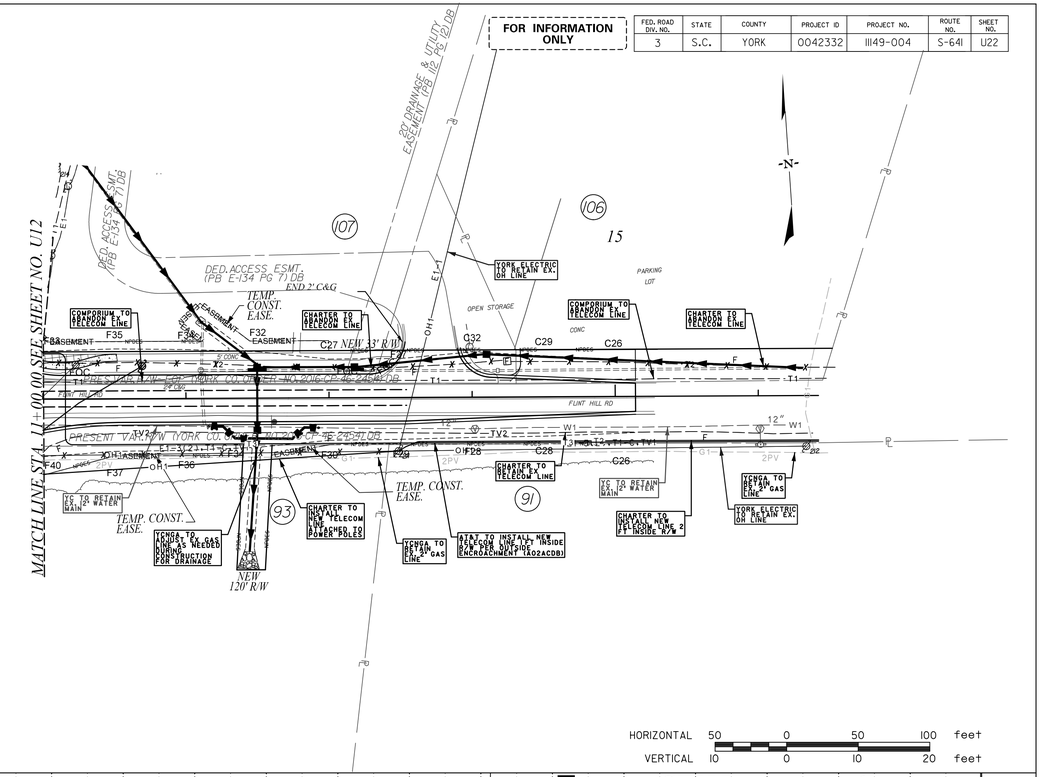
C122
C123
C124

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	S-641	U22

FOR INFORMATION ONLY

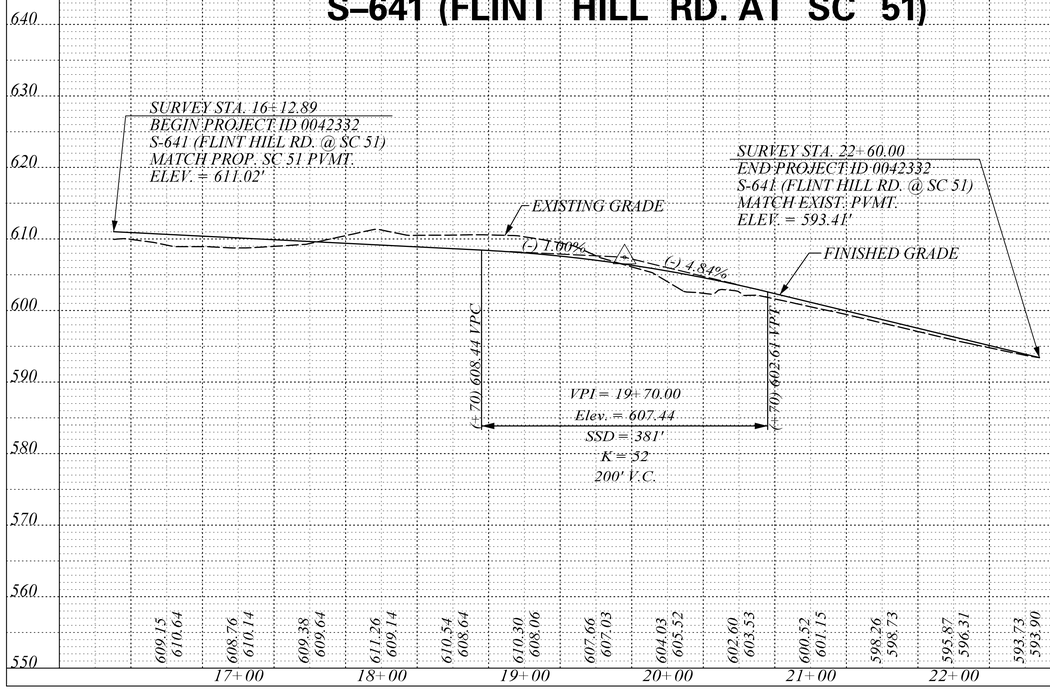




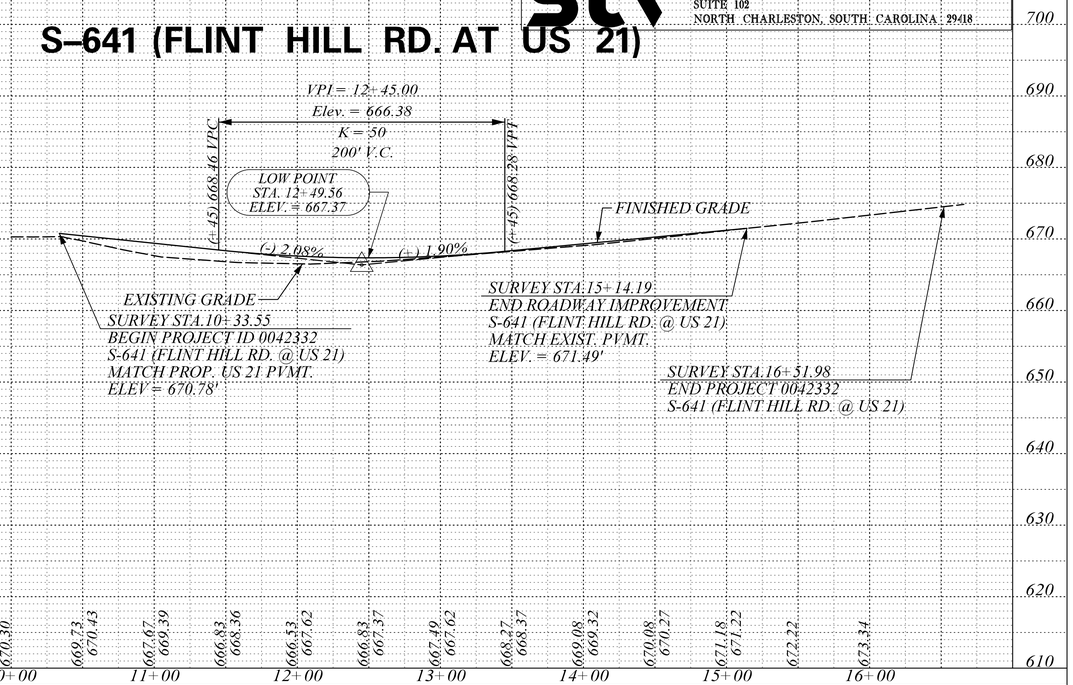
HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

S–641 (FLINT HILL RD. AT SC 51)



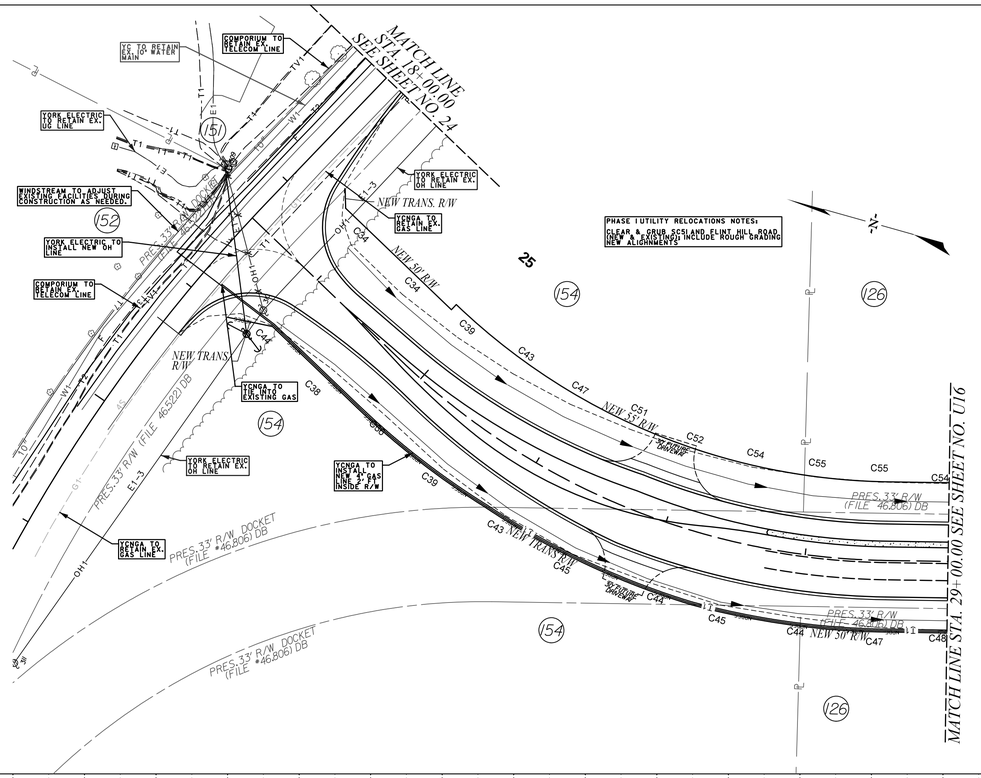
S–641 (FLINT HILL RD. AT US 21)

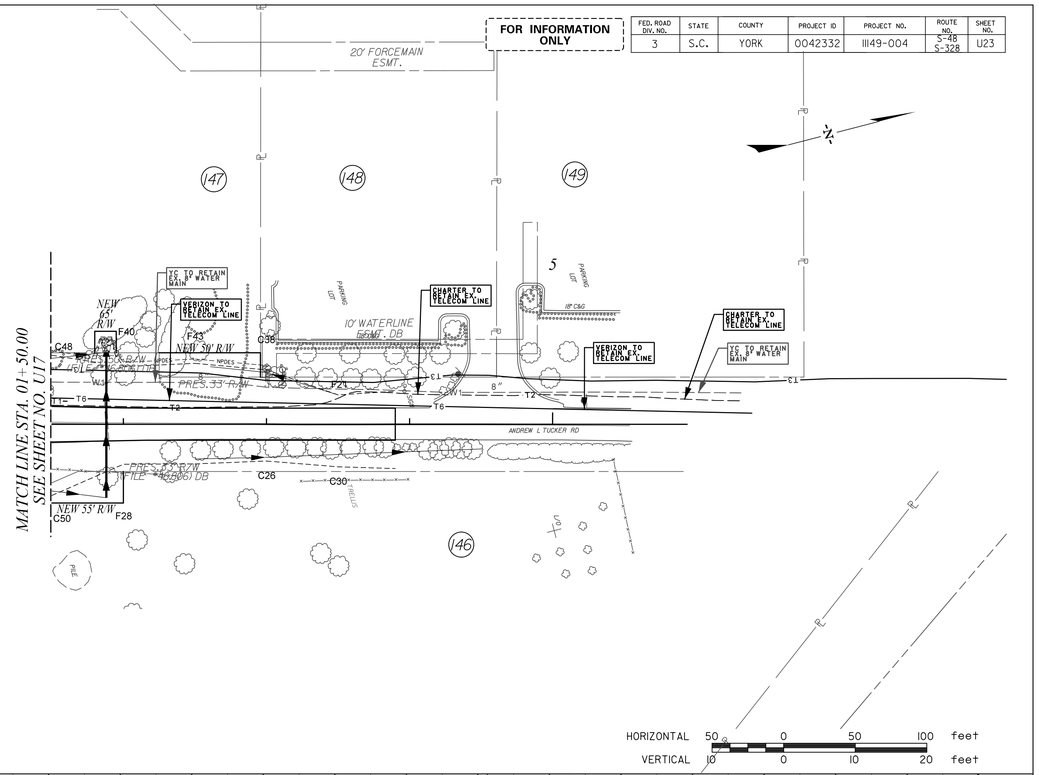


PROLINE.DGN

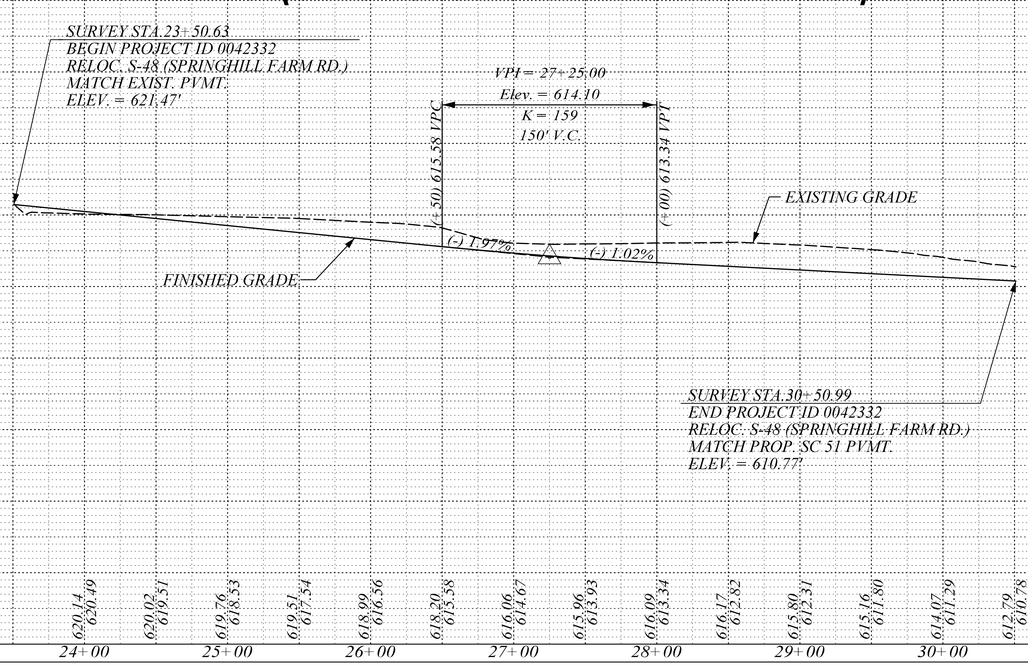
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	S-48	U23
					S-328	

FOR INFORMATION ONLY

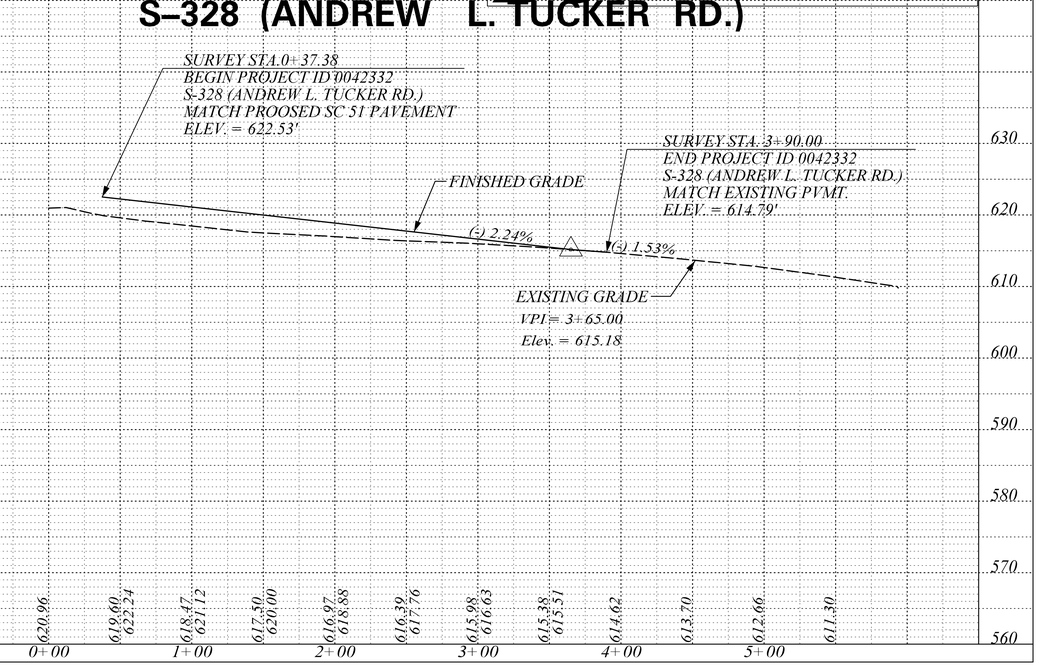




S–48 (SPRINGHILL FARM RD. RELOC.)



S–328 (ANDREW L. TUCKER RD.)



STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

PROLINE.DGN

FOR INFORMATION ONLY	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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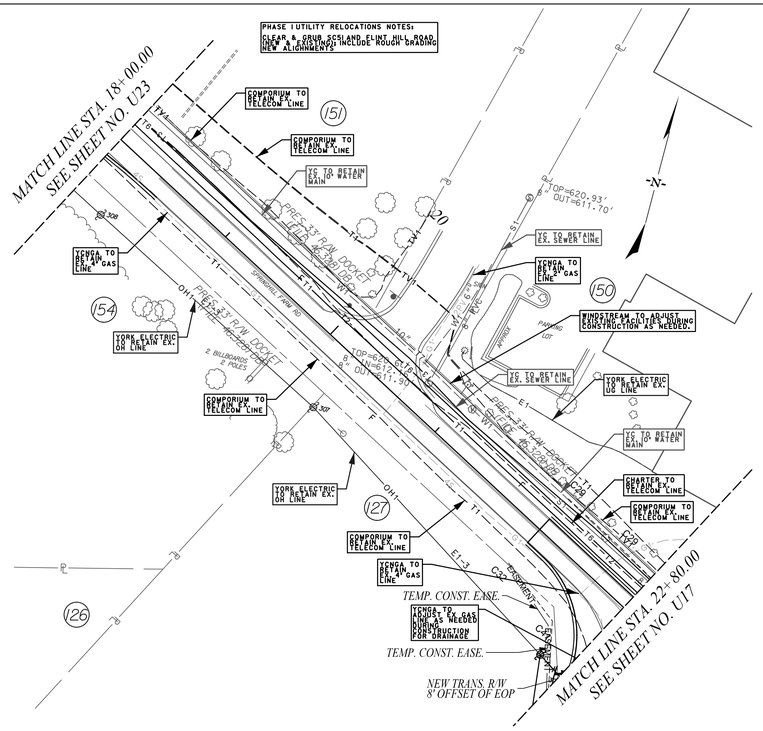
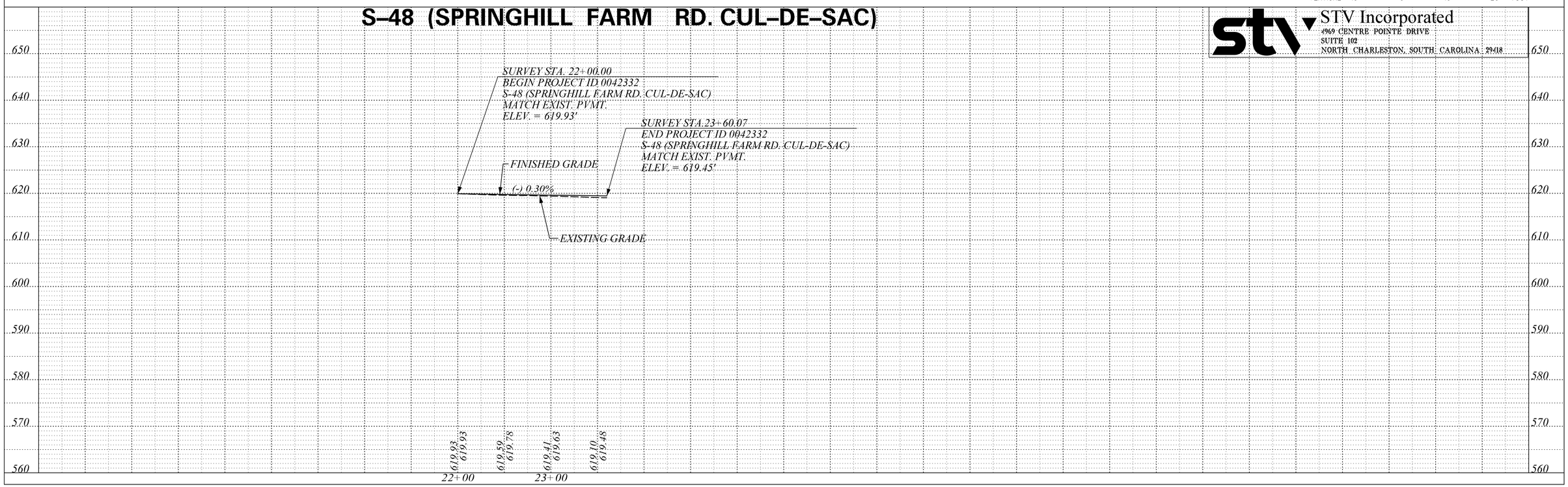


HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

S-48 (SPRINGHILL FARM RD. CUL-DE-SAC)

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418



PROLINE.DGN

FOR INFORMATION ONLY	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
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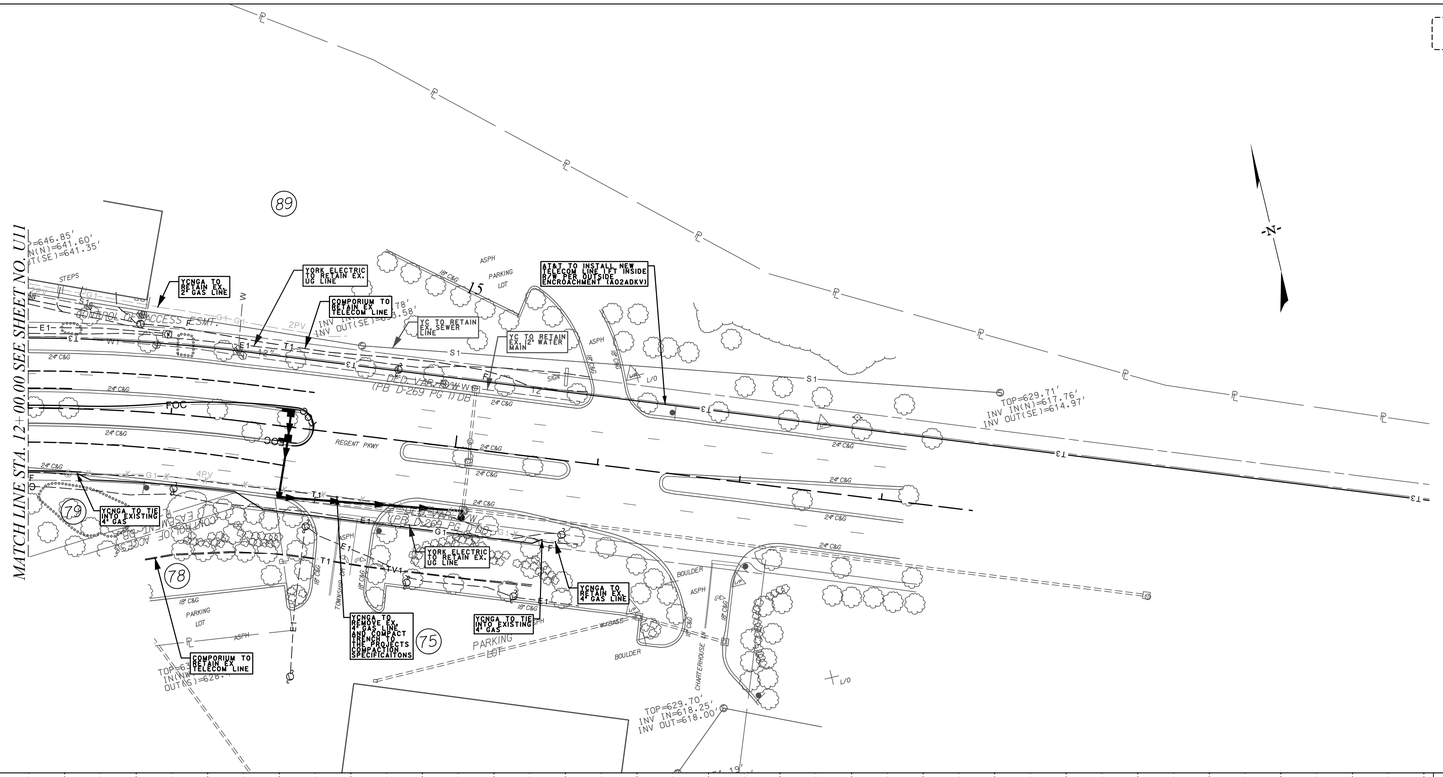
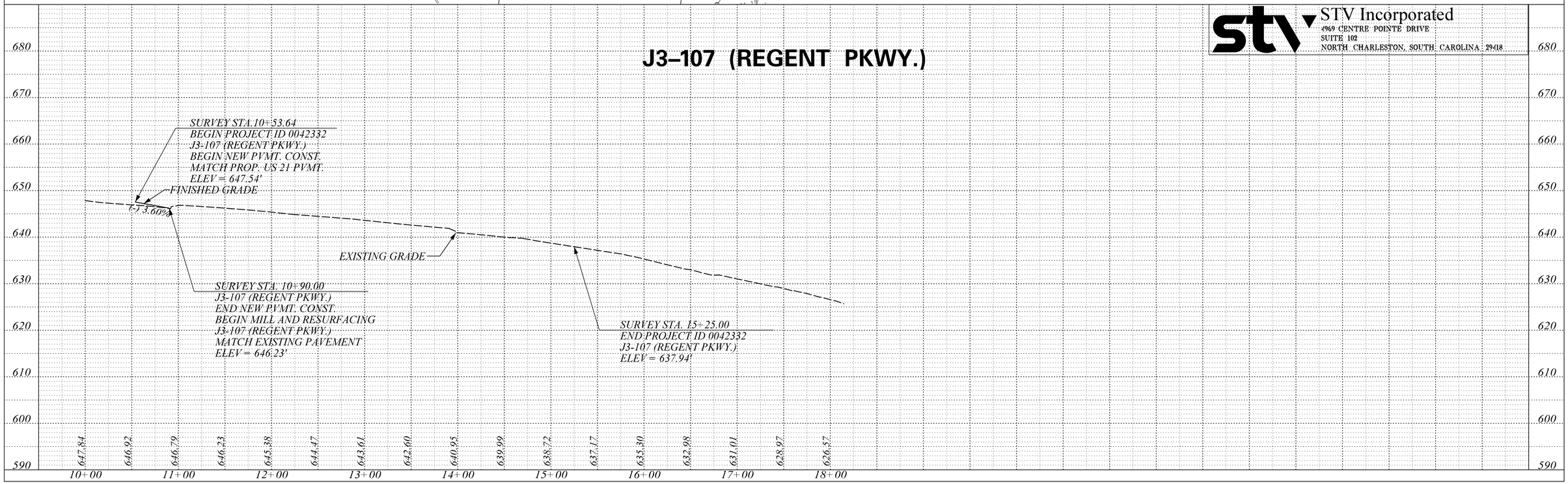


HORIZONTAL 50 0 50 100 feet
VERTICAL 10 0 10 20 feet

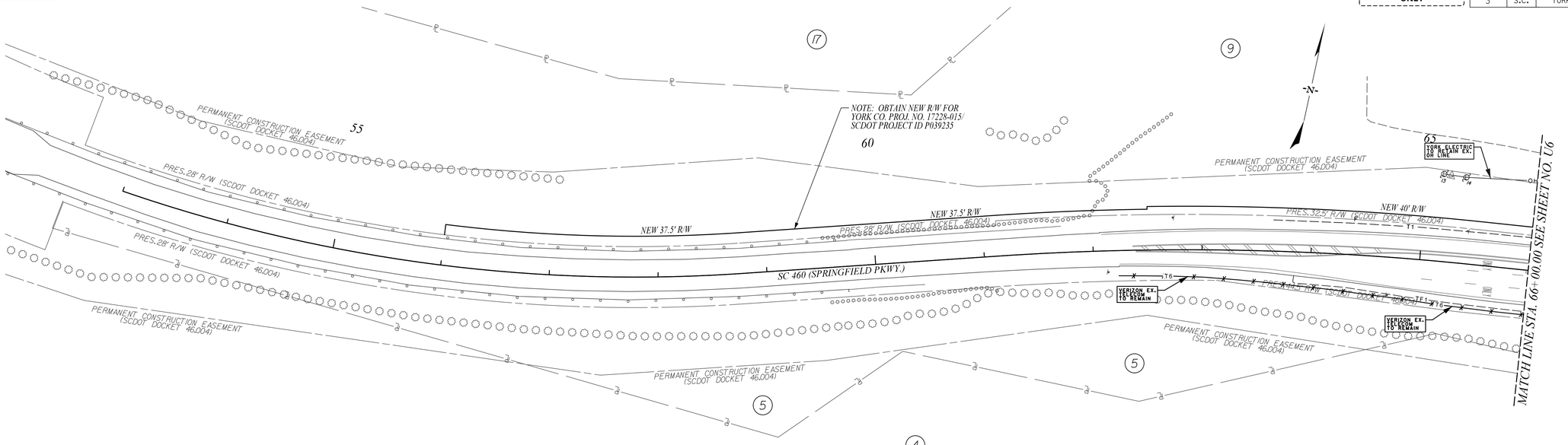
STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

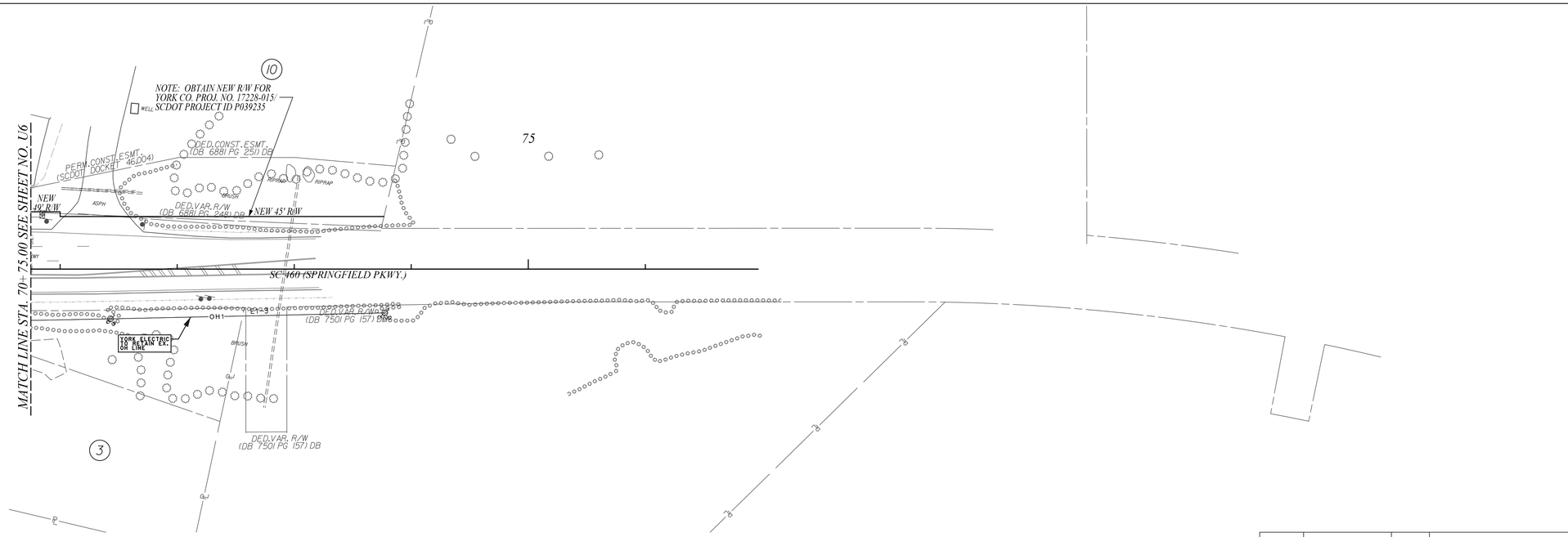
J3–107 (REGENT PKWY.)



PROLINE.DGN

FOR INFORMATION ONLY	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	0042332	11149-004	SC 460	U30





50 0 50 100
scale feet

STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

SCALE 1" = 50' RTE. DWG. NO. U30

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1			

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			

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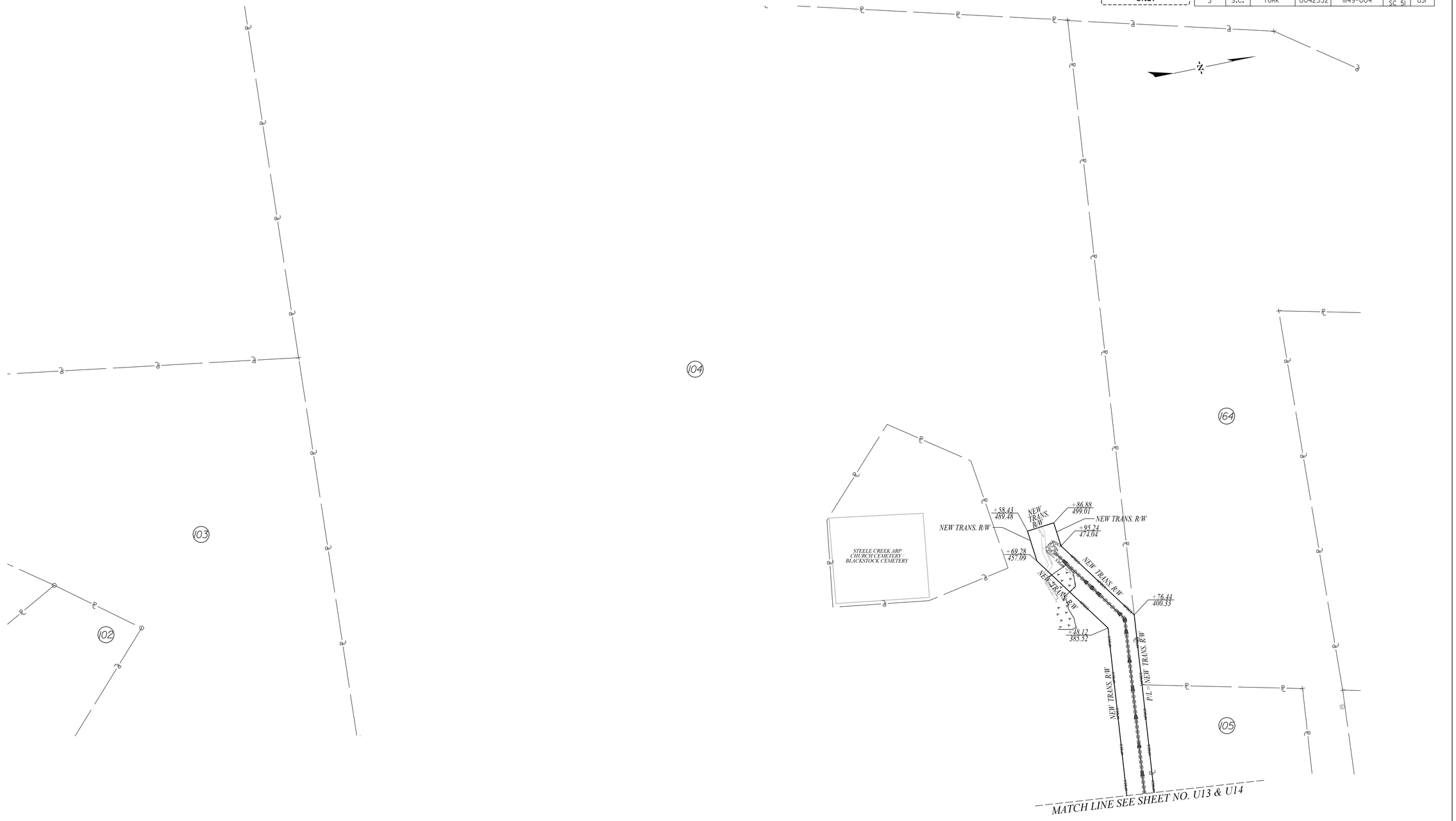
1/23/2024

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	0042332	11149-004	US 21 SC 51	U31

FOR INFORMATION ONLY



STV Incorporated
4969 CENTRE POINTE DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

YORK COUNTY
SOUTH CAROLINA

US 21 NORTH PHASE 1 & SC 51

SCALE 1" = 50' RTE. US 21 DWG. NO. U31

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
3			
2			
1			

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			

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1/23/2024

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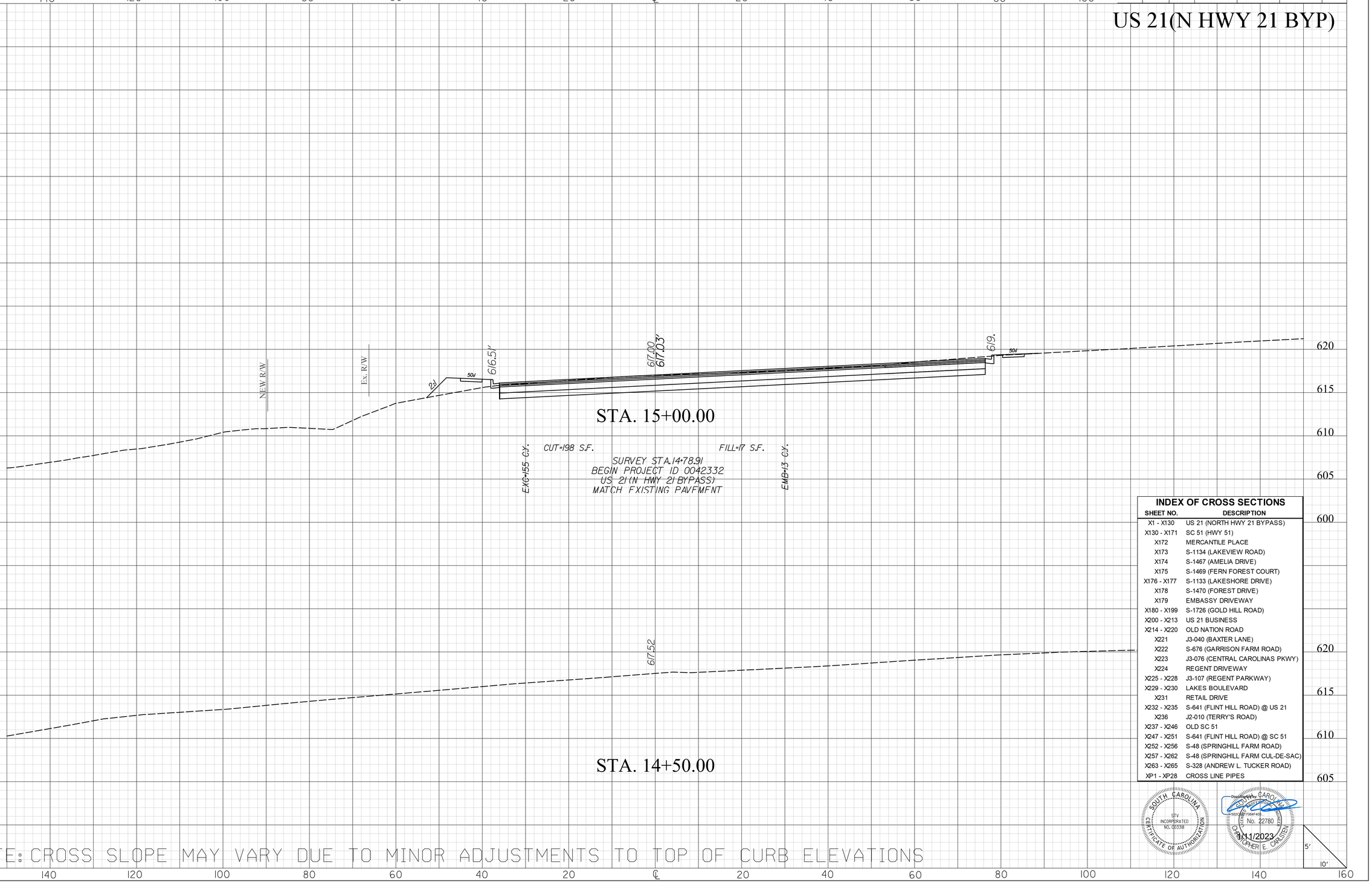
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X1

US 21(N HWY 21 BYP)



INDEX OF CROSS SECTIONS

SHEET NO.	DESCRIPTION
X1 - X130	US 21 (NORTH HWY 21 BYPASS)
X130 - X171	SC 51 (HWY 51)
X172	MERCANTILE PLACE
X173	S-1134 (LAKEVIEW ROAD)
X174	S-1467 (AMELIA DRIVE)
X175	S-1469 (FERN FOREST COURT)
X176 - X177	S-1133 (LAKESHORE DRIVE)
X178	S-1470 (FOREST DRIVE)
X179	EMBASSY DRIVEWAY
X180 - X199	S-1726 (GOLD HILL ROAD)
X200 - X213	US 21 BUSINESS
X214 - X220	OLD NATION ROAD
X221	J3-040 (BAXTER LANE)
X222	S-676 (GARRISON FARM ROAD)
X223	J3-076 (CENTRAL CAROLINAS PKWY)
X224	REGENT DRIVEWAY
X225 - X228	J3-107 (REGENT PARKWAY)
X229 - X230	LAKES BOULEVARD
X231	RETAIL DRIVE
X232 - X235	S-641 (FLINT HILL ROAD) @ US 21
X236	J2-010 (TERRY'S ROAD)
X237 - X246	OLD SC 51
X247 - X251	S-641 (FLINT HILL ROAD) @ SC 51
X252 - X256	S-48 (SPRINGHILL FARM ROAD)
X257 - X262	S-48 (SPRINGHILL FARM CUL-DE-SAC)
X263 - X265	S-328 (ANDREW L. TUCKER ROAD)
XP1 - XP28	CROSS LINE PIPES

SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
Date: 2023.01.11 08:27:04 -05'00'
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTEN
1/11/2023

masttlg
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1/10/2023

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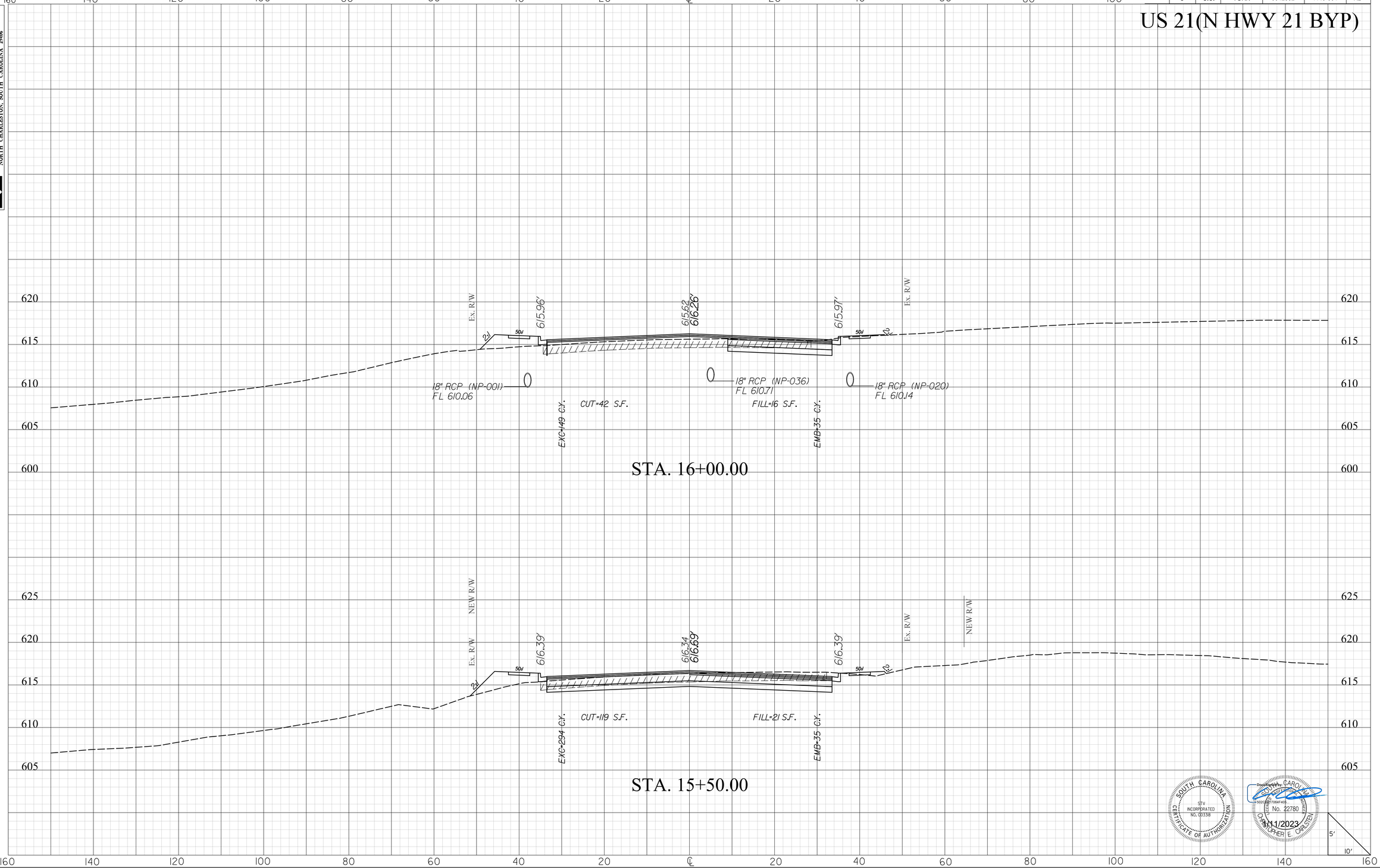
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X2

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

mastiltg
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1/10/2023

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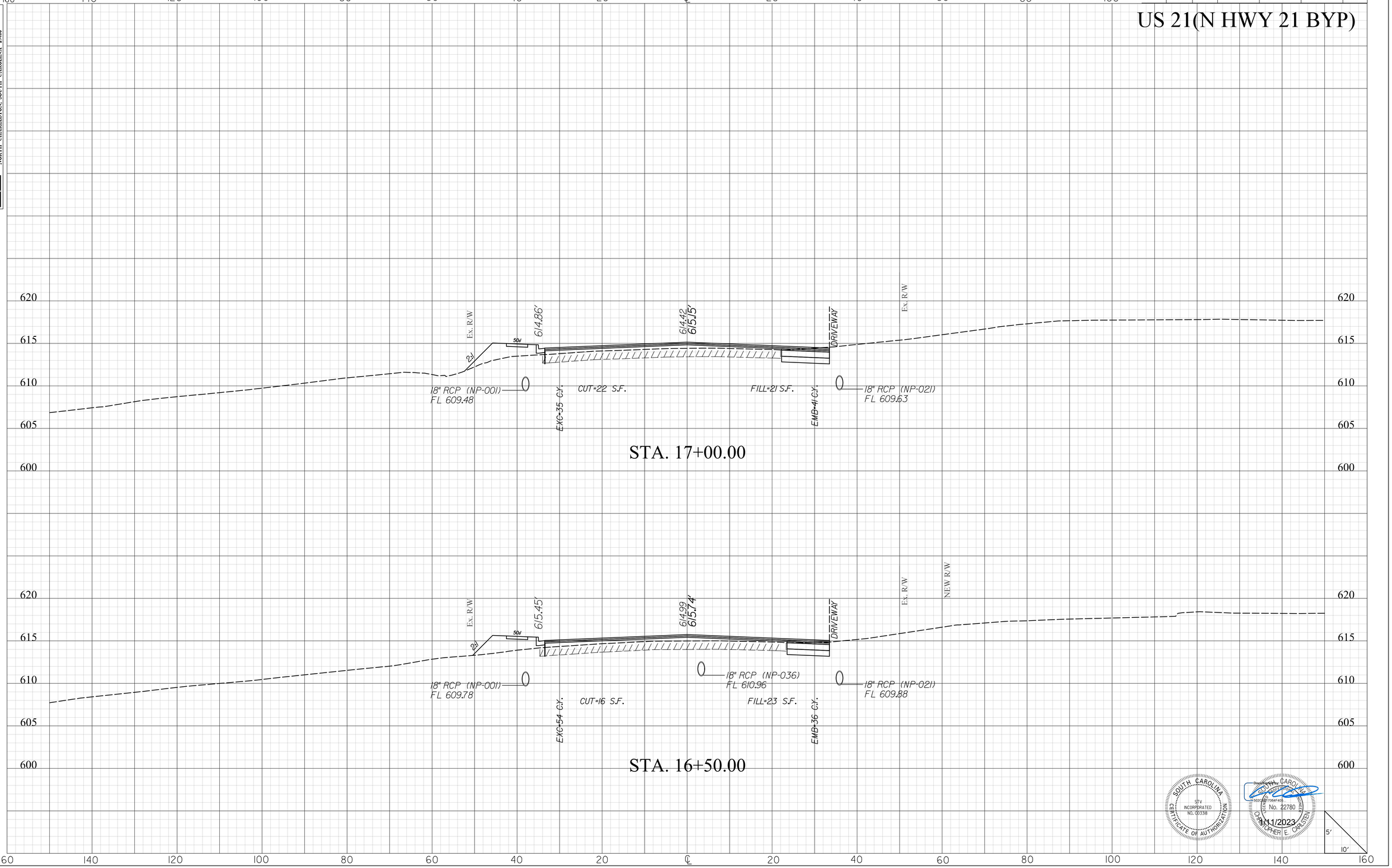
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X3

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)



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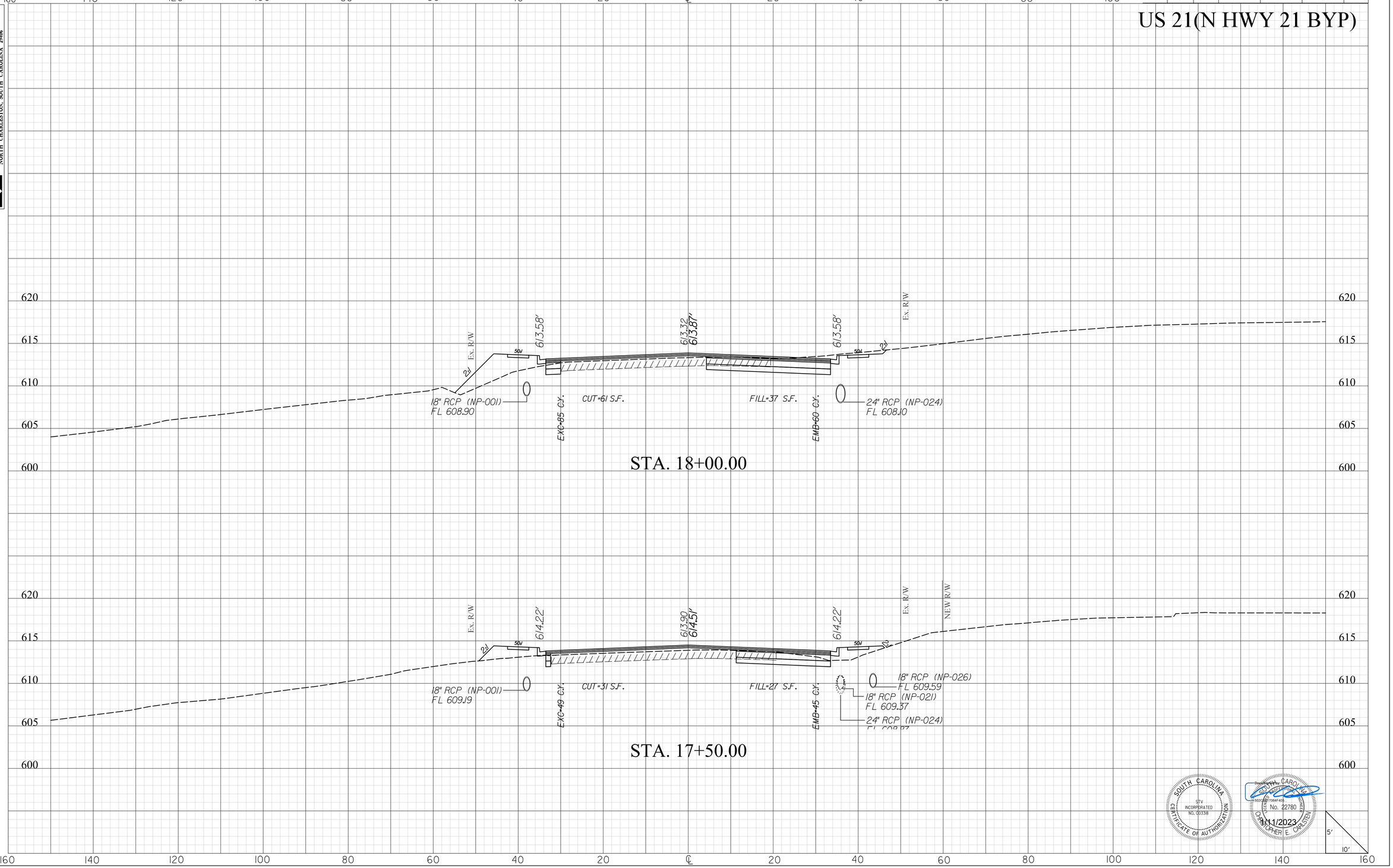
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X4

US 21(N HWY 21 BYP)



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1/10/2023

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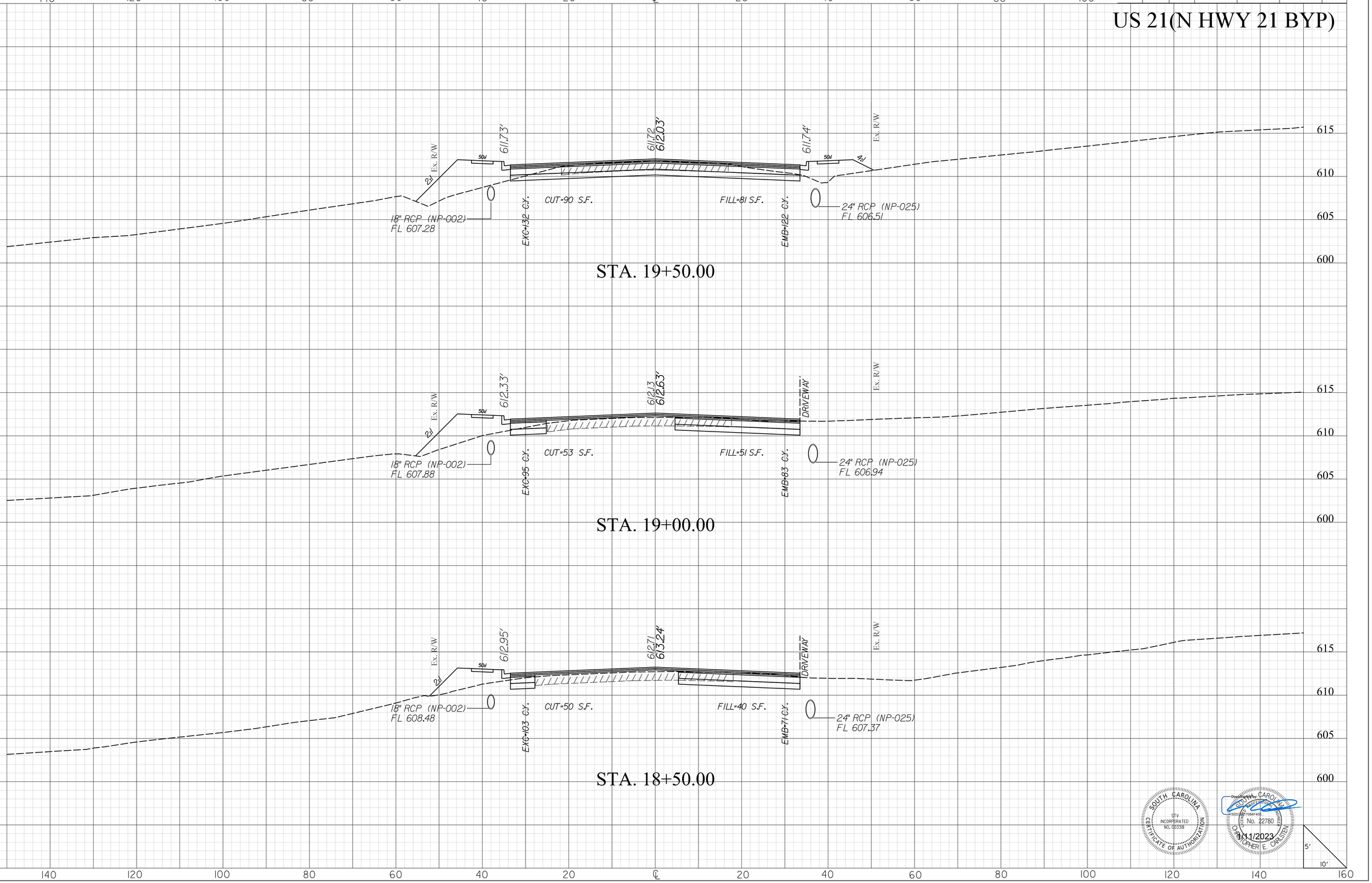
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X5

US 21(N HWY 21 BYP)



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1/10/2023

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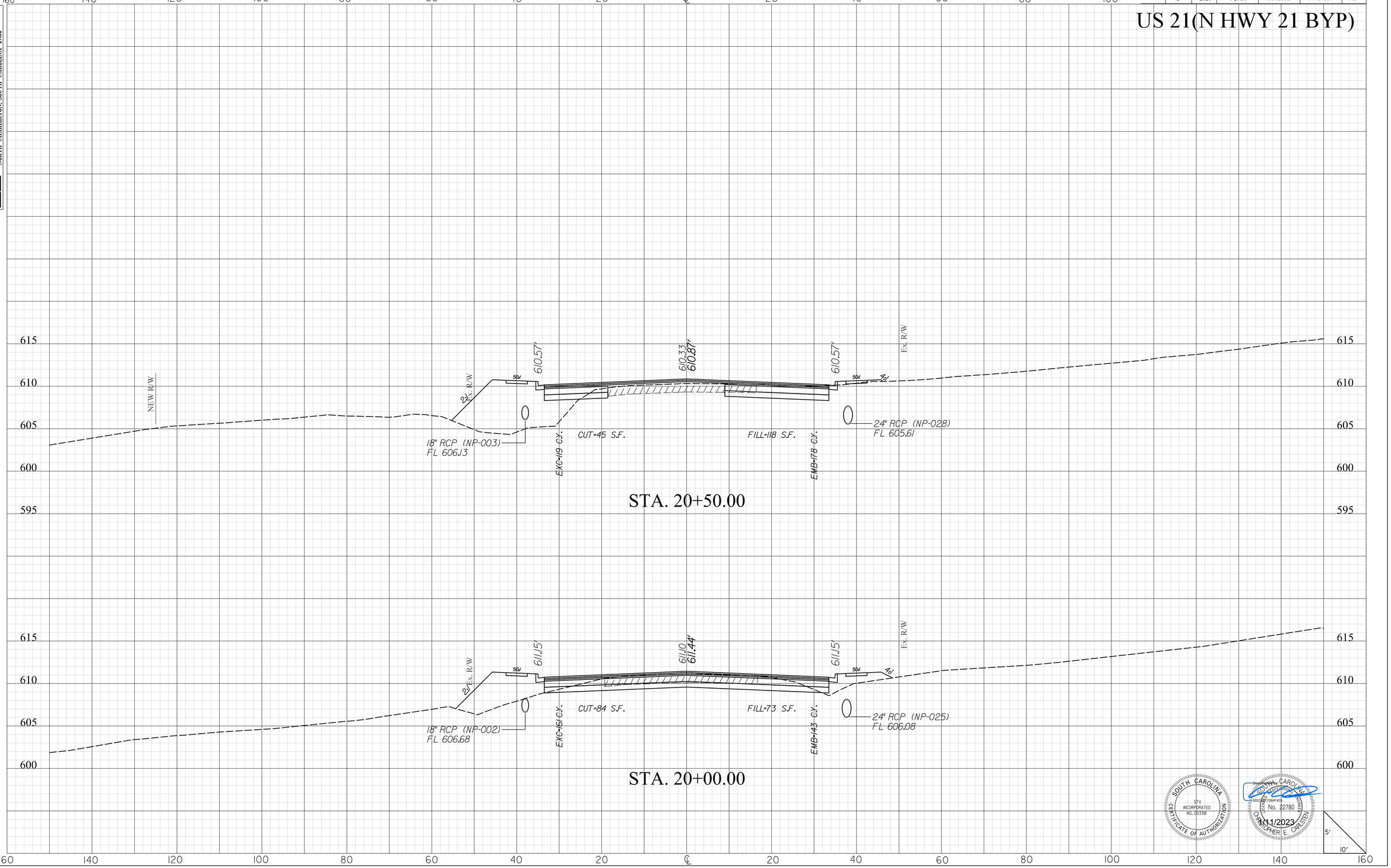
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X6

US 21(N HWY 21 BYP)



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1/10/2023

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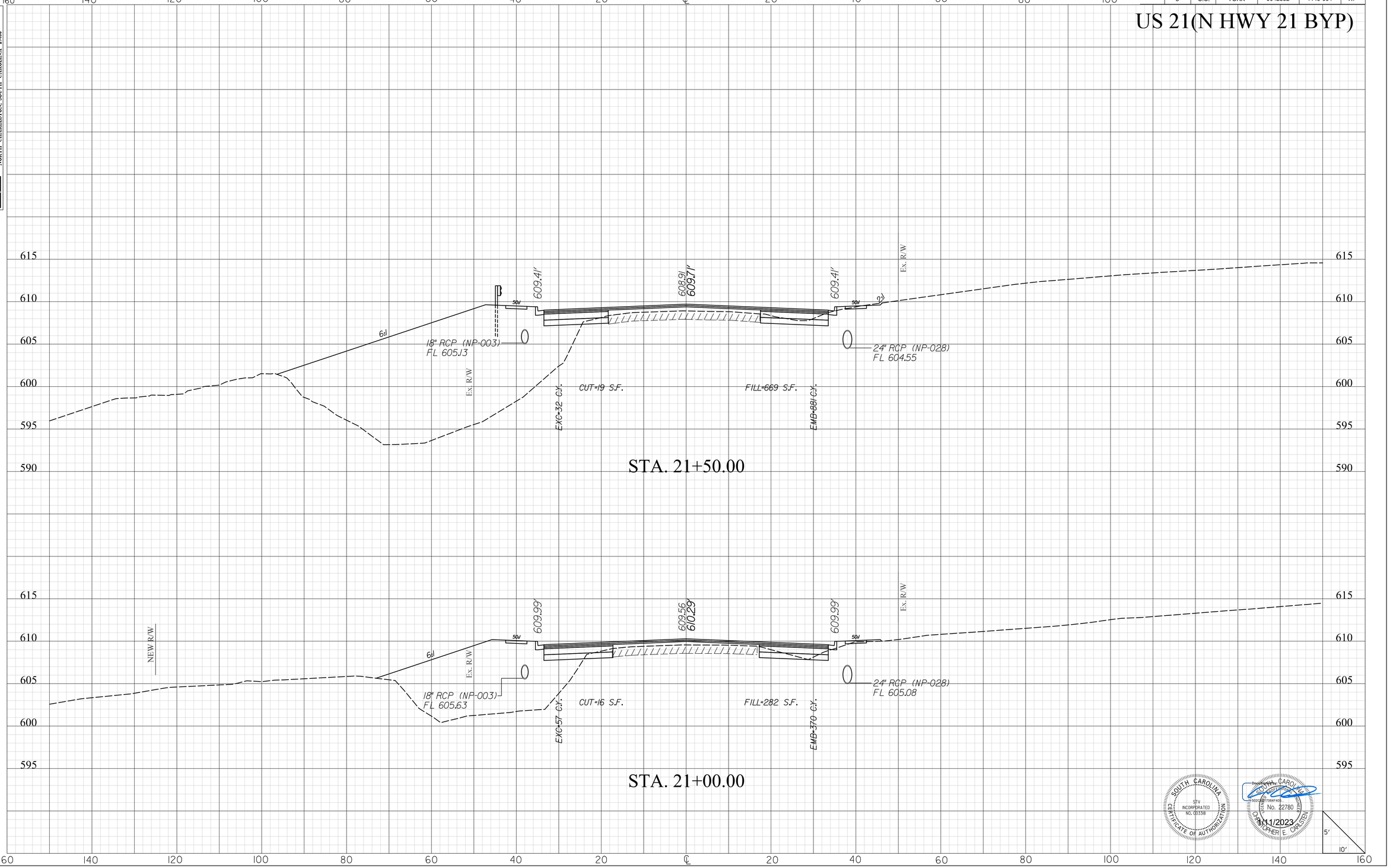
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X7

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)



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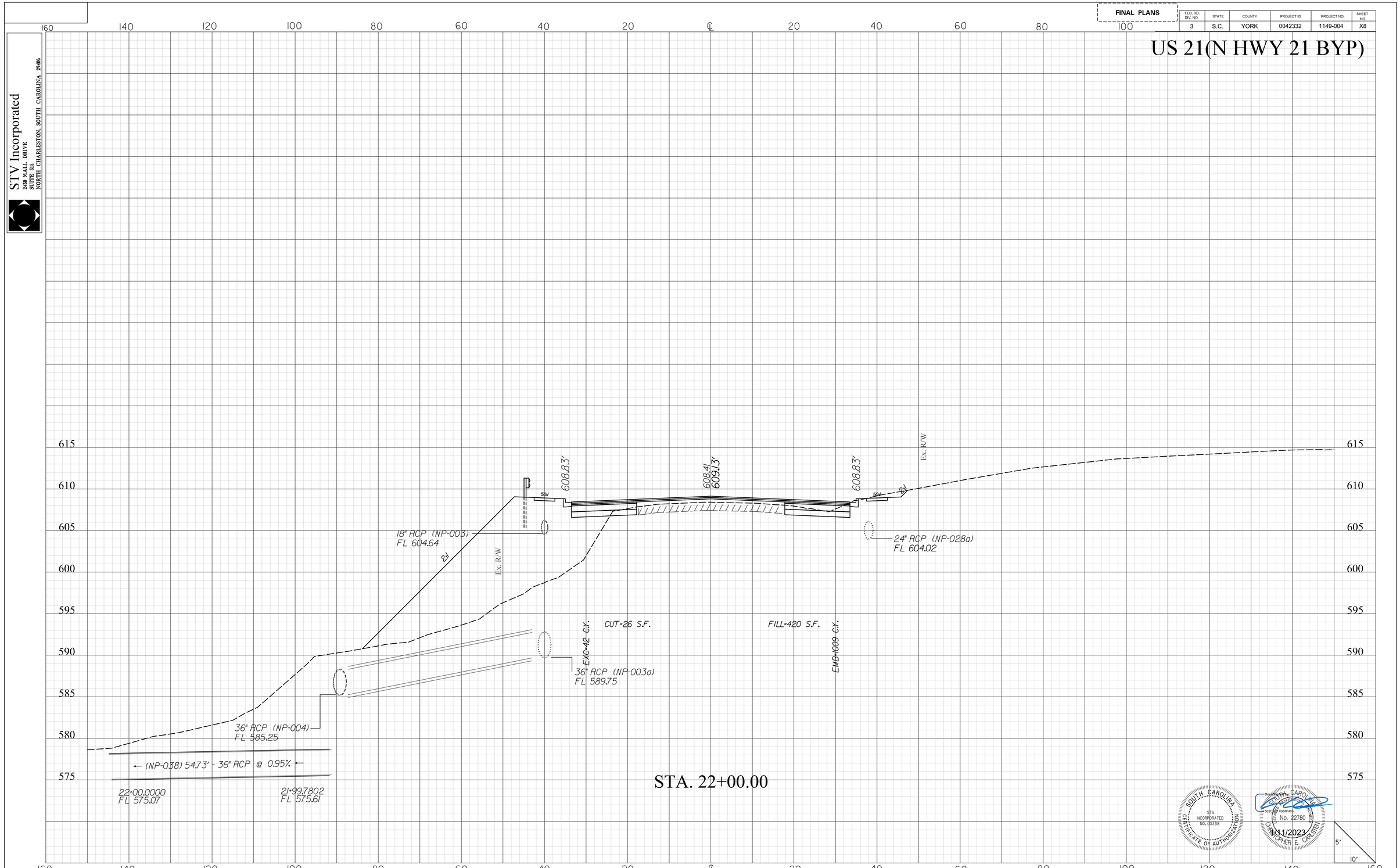
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X8

US 21(N HWY 21 BYP)



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1/10/2023

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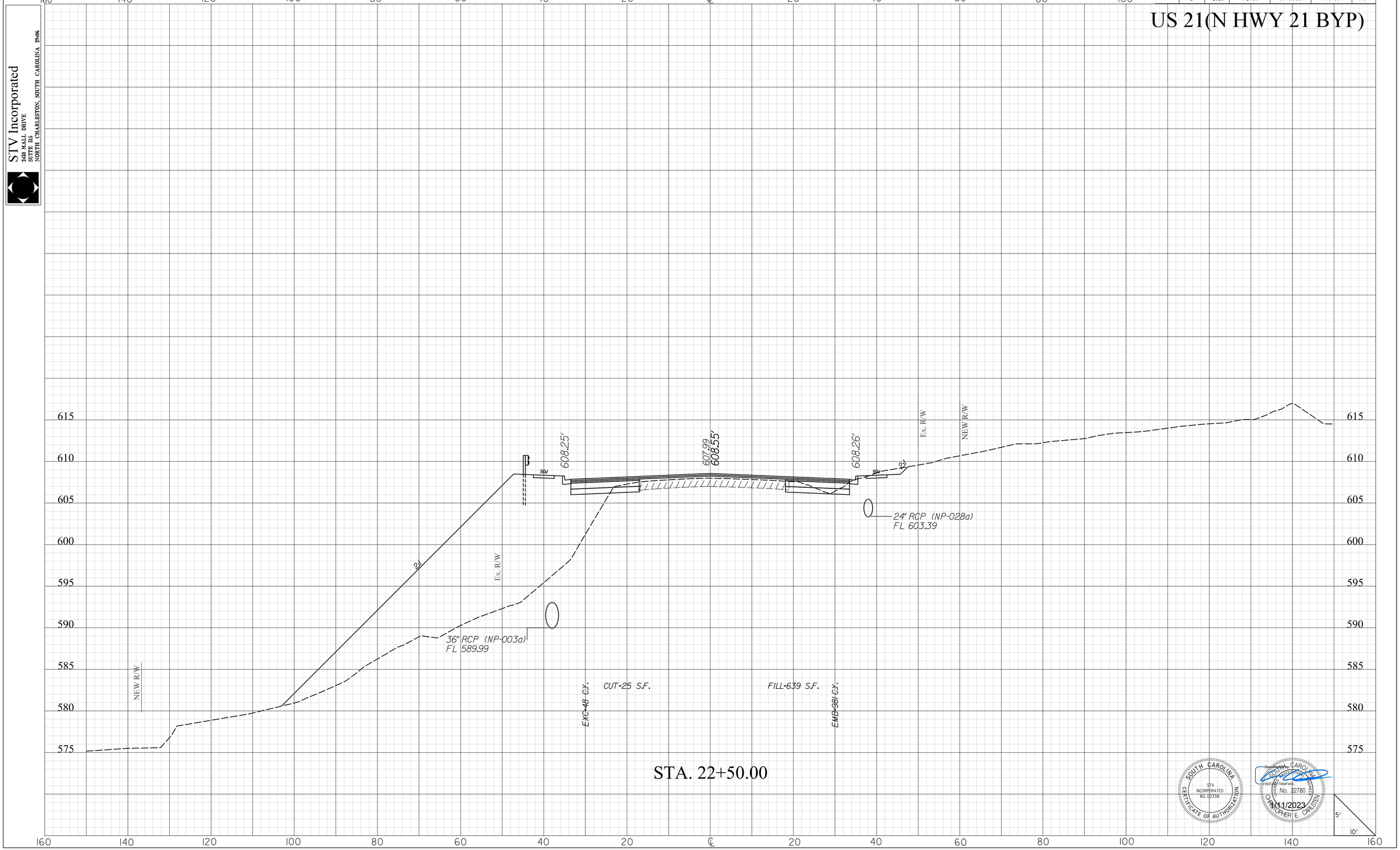
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X9

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

masflitg
I:\Projects\2515776\2515776-000\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US2L_XPL.dgn
1/10/2023

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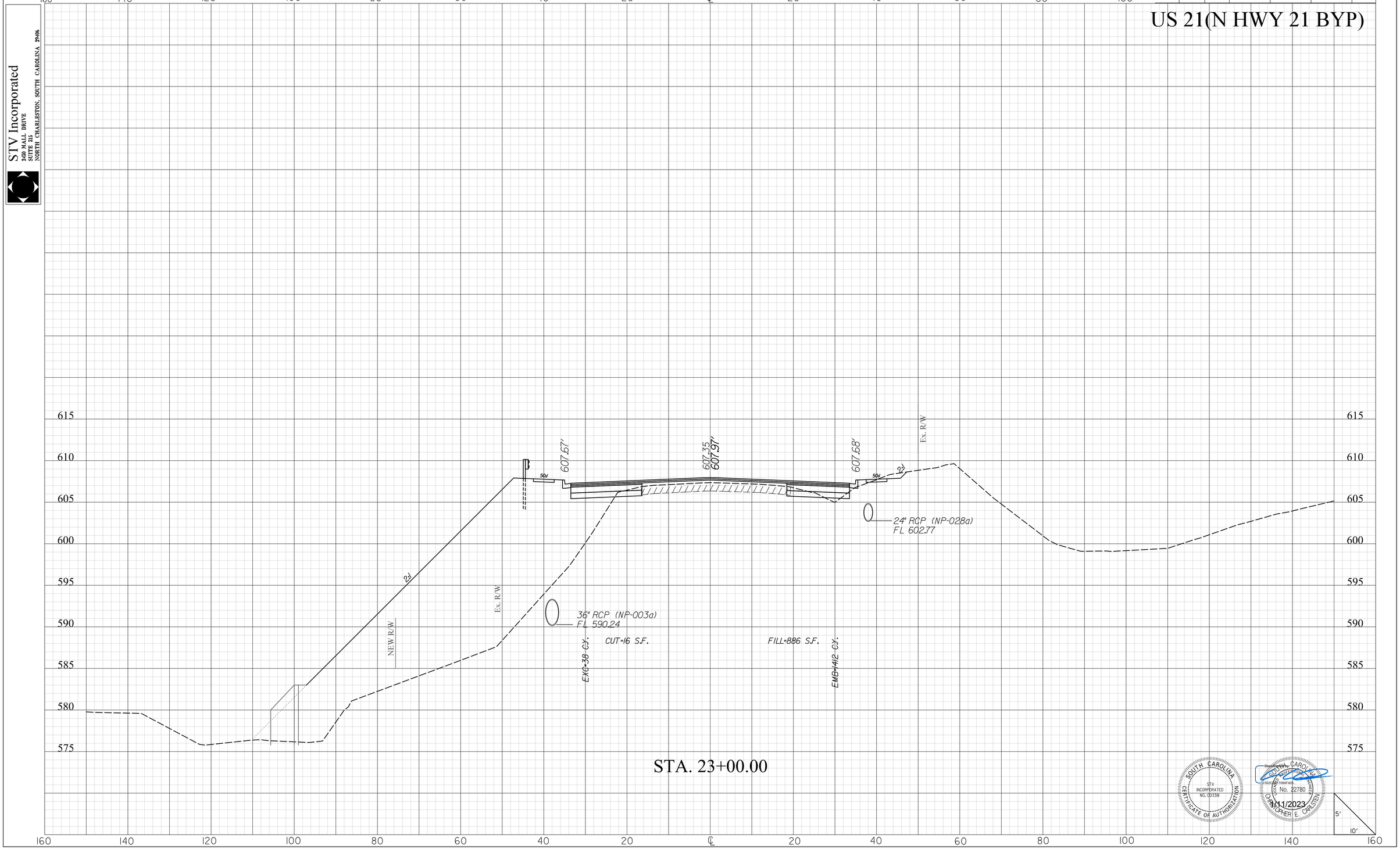
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X10

US 21(N HWY 21 BYP)



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1/10/2023

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STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X11

US 21(N HWY 21 BYP)

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100

615 610 605 600 595 590

NEW R/W

Ex. R/W

606.52'

606.16
606.82'

606.52'

Ex. R/W

2:1 5:1 5:1 2:1

18" RCP (NP-008)
FL 592.83

EXC-39 C.Y.

CUT-30 S.F.

FILL-21 S.F.

EMB-857 C.Y.

18" RCP (NP-030)
FL 593.43

STA. 24+00.00

NEW R/W

Ex. R/W

607.10'

606.67
607.40'

607.10'

Ex. R/W

2:1 5:1 5:1 2:1

18" RCP (NP-008)
FL 592.24

EXC-26 C.Y.

CUT-12 S.F.

FILL-905 S.F.

EMB-1659 C.Y.

18" RCP (NP-030)
FL 593.23

STA. 23+50.00

575 580 585 590 595 600 605 610 615

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN

1/11/2023

5' 10'

masttlg
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1/10/2023

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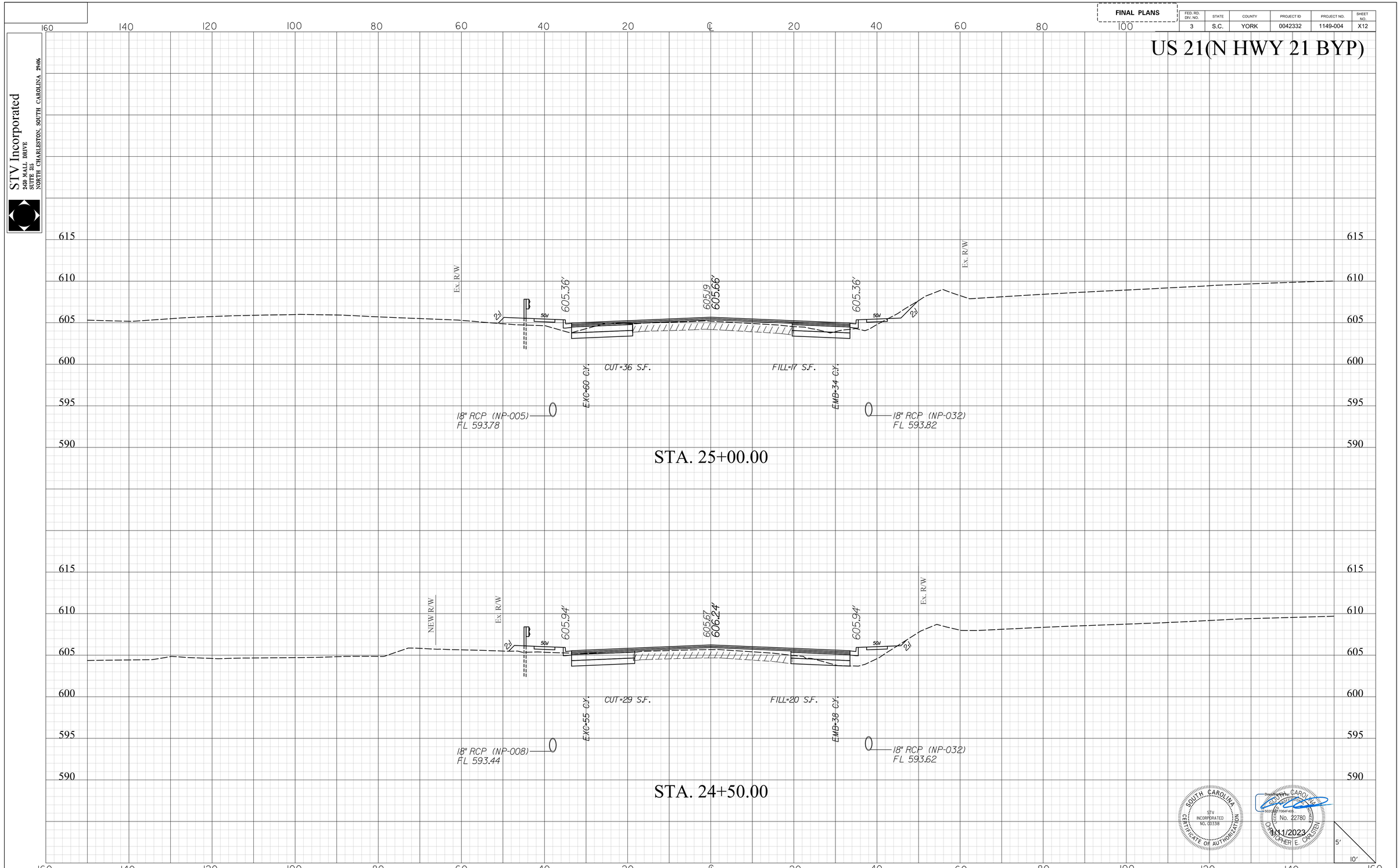
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X12

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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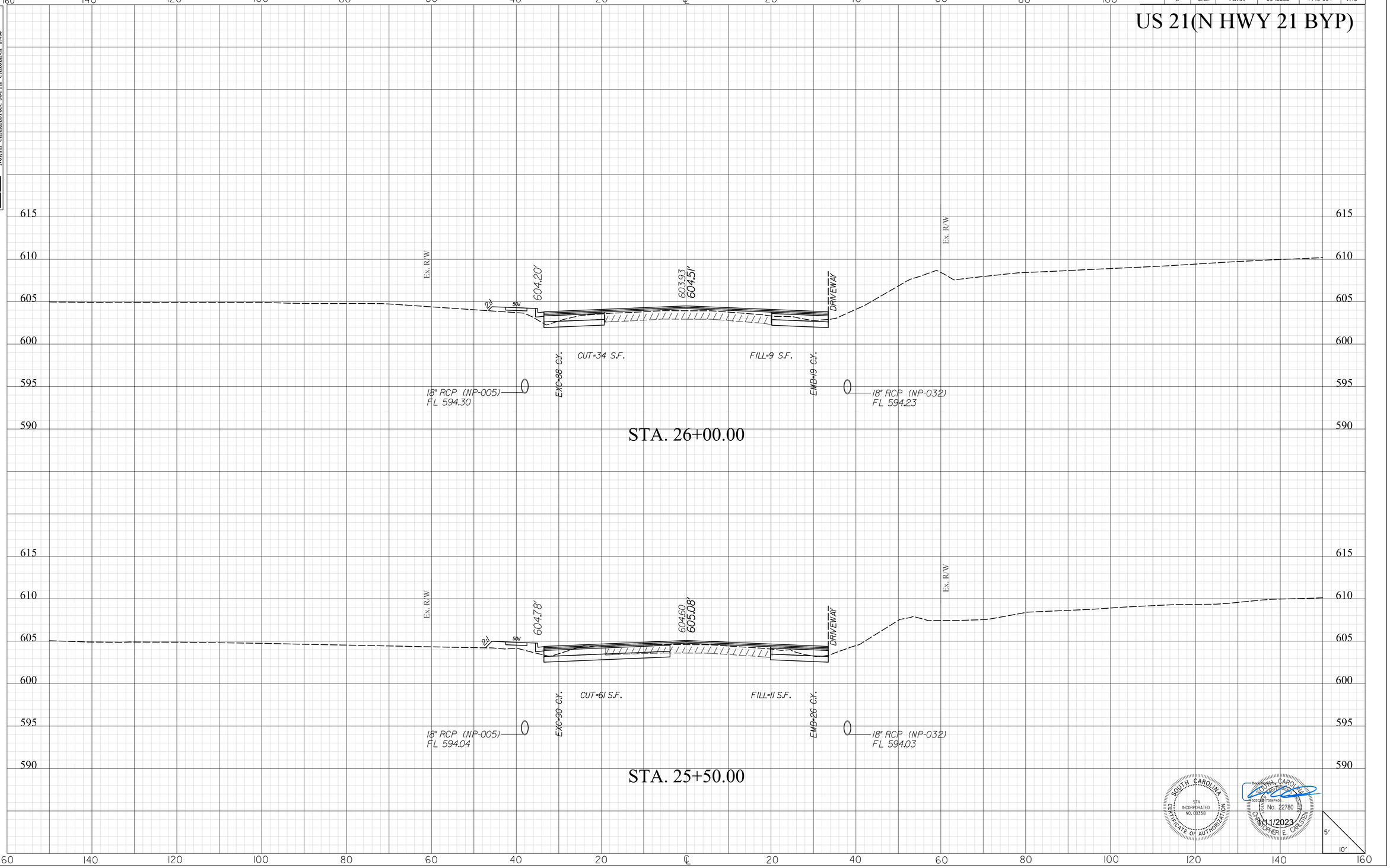
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X13

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION
NO. C03318

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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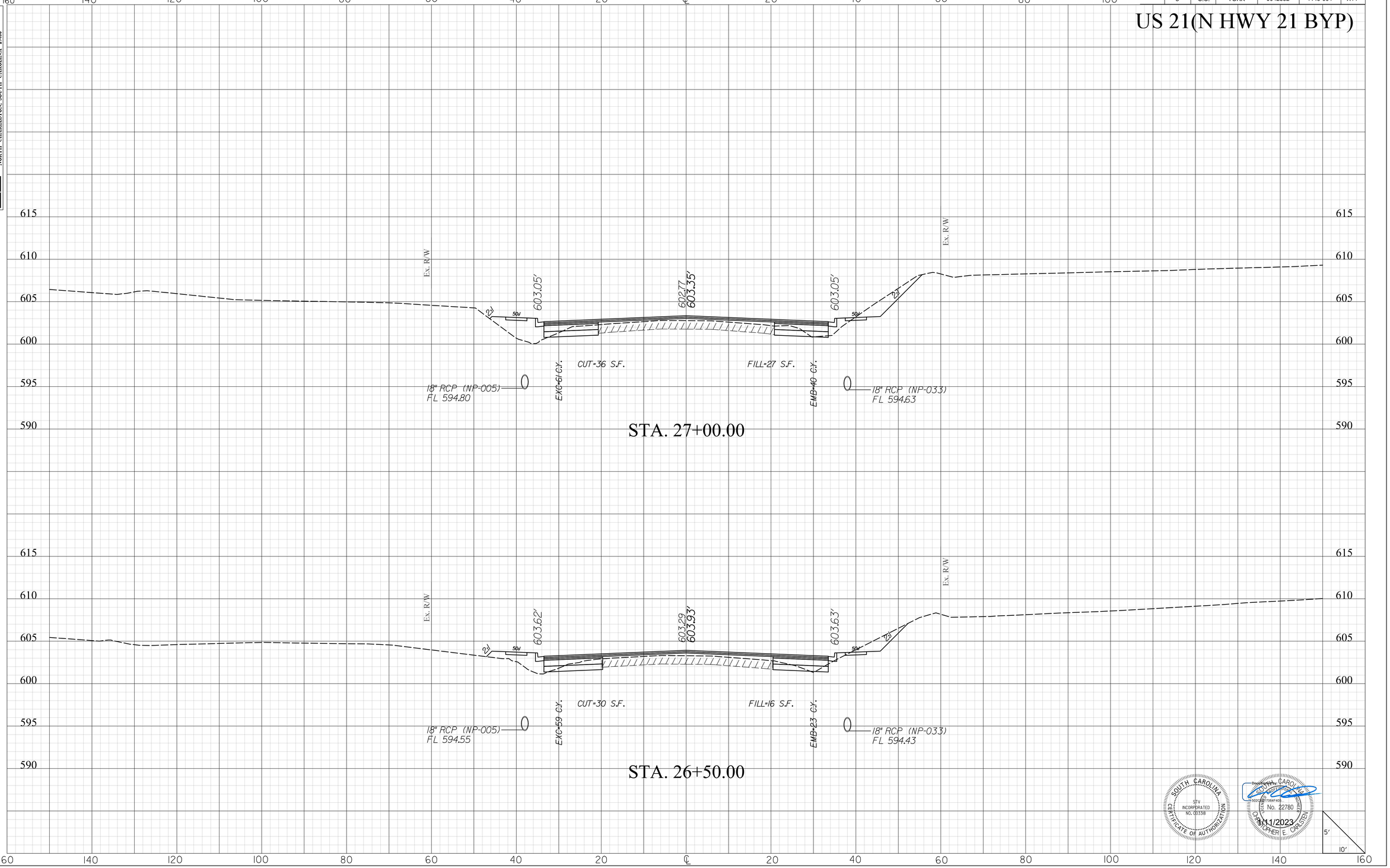
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
3/11/2023

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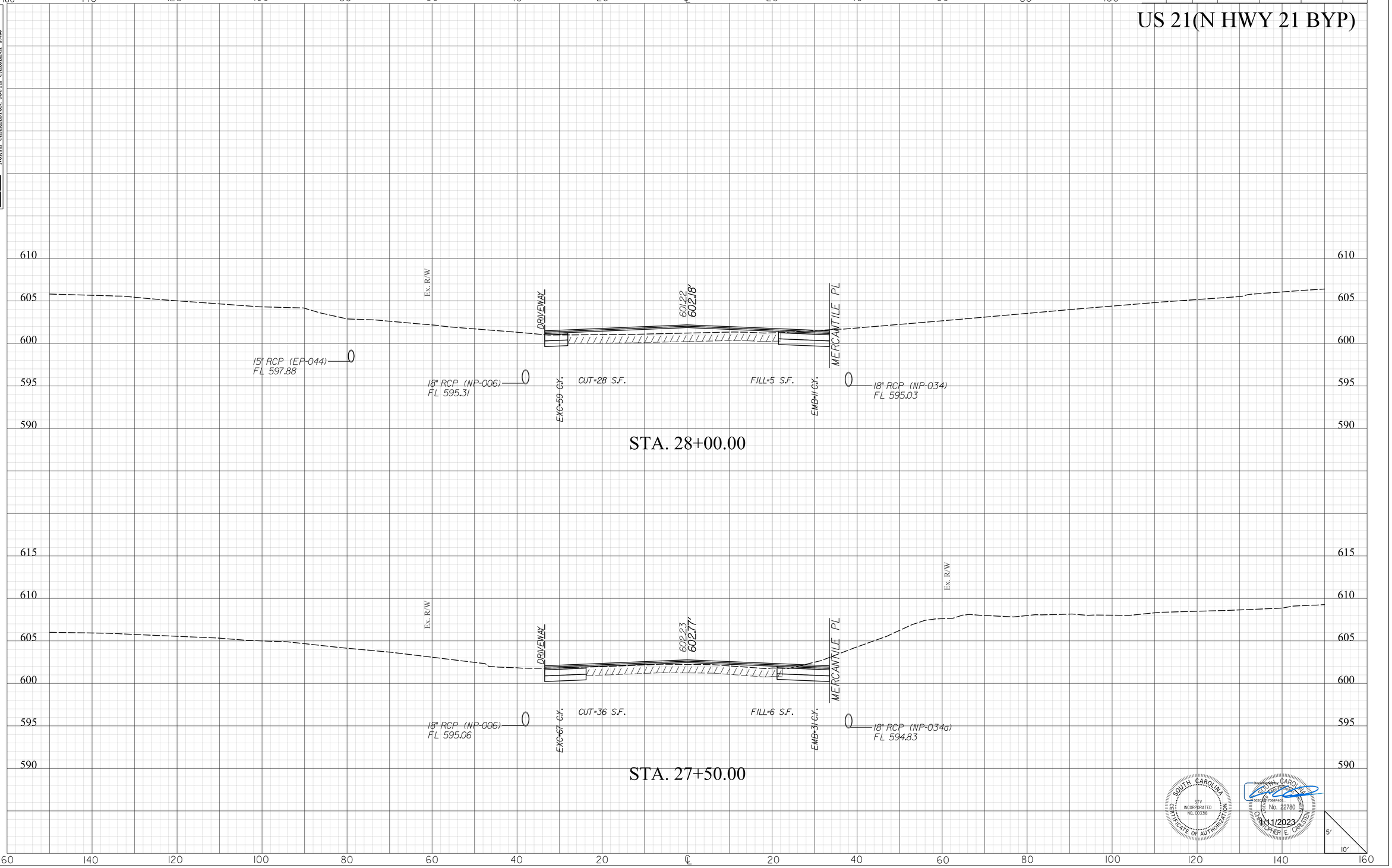
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X15

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Docu Sign Envelope ID: 0042332-1149-004-X15
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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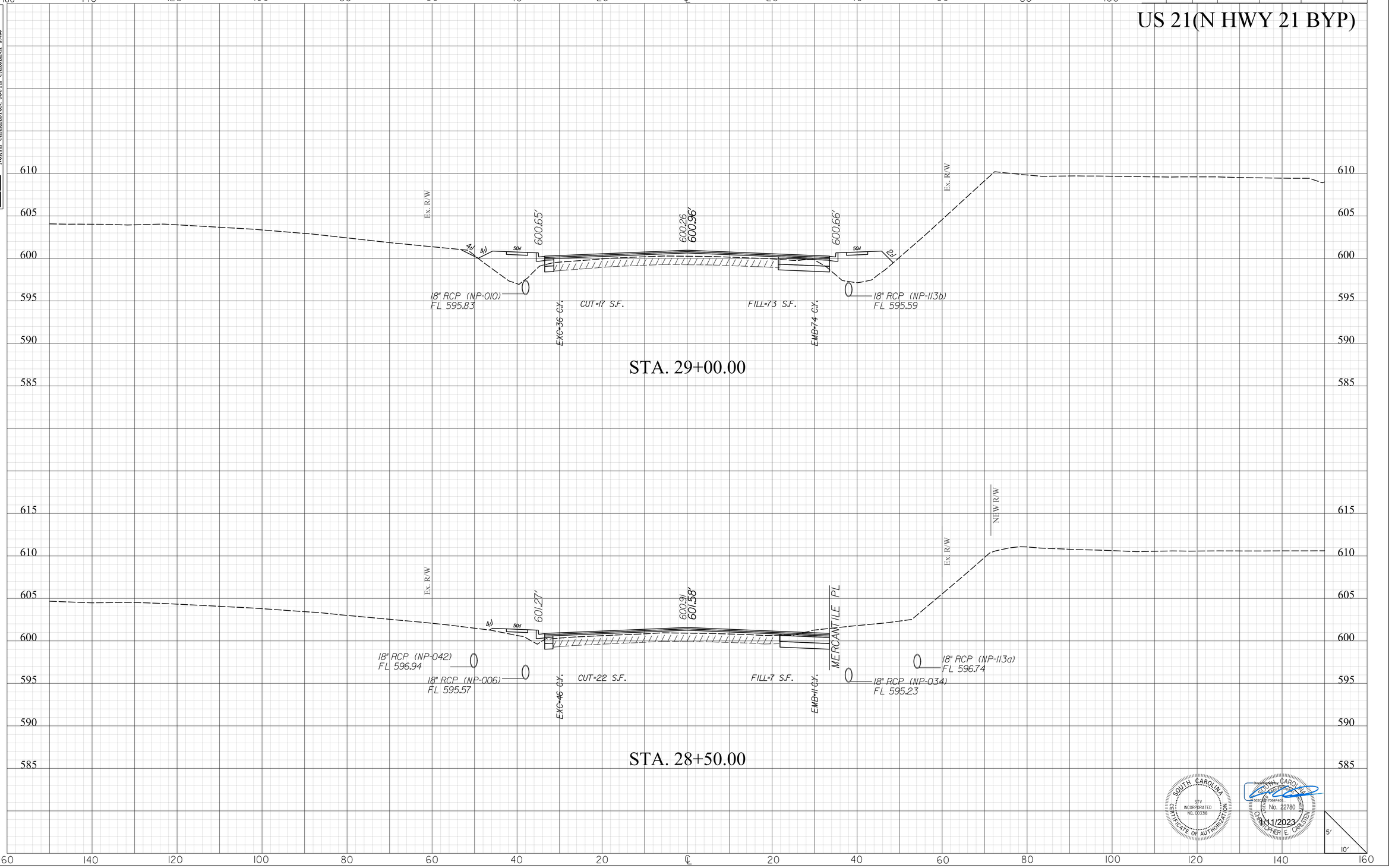
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARSTEN

1/11/2023

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10'

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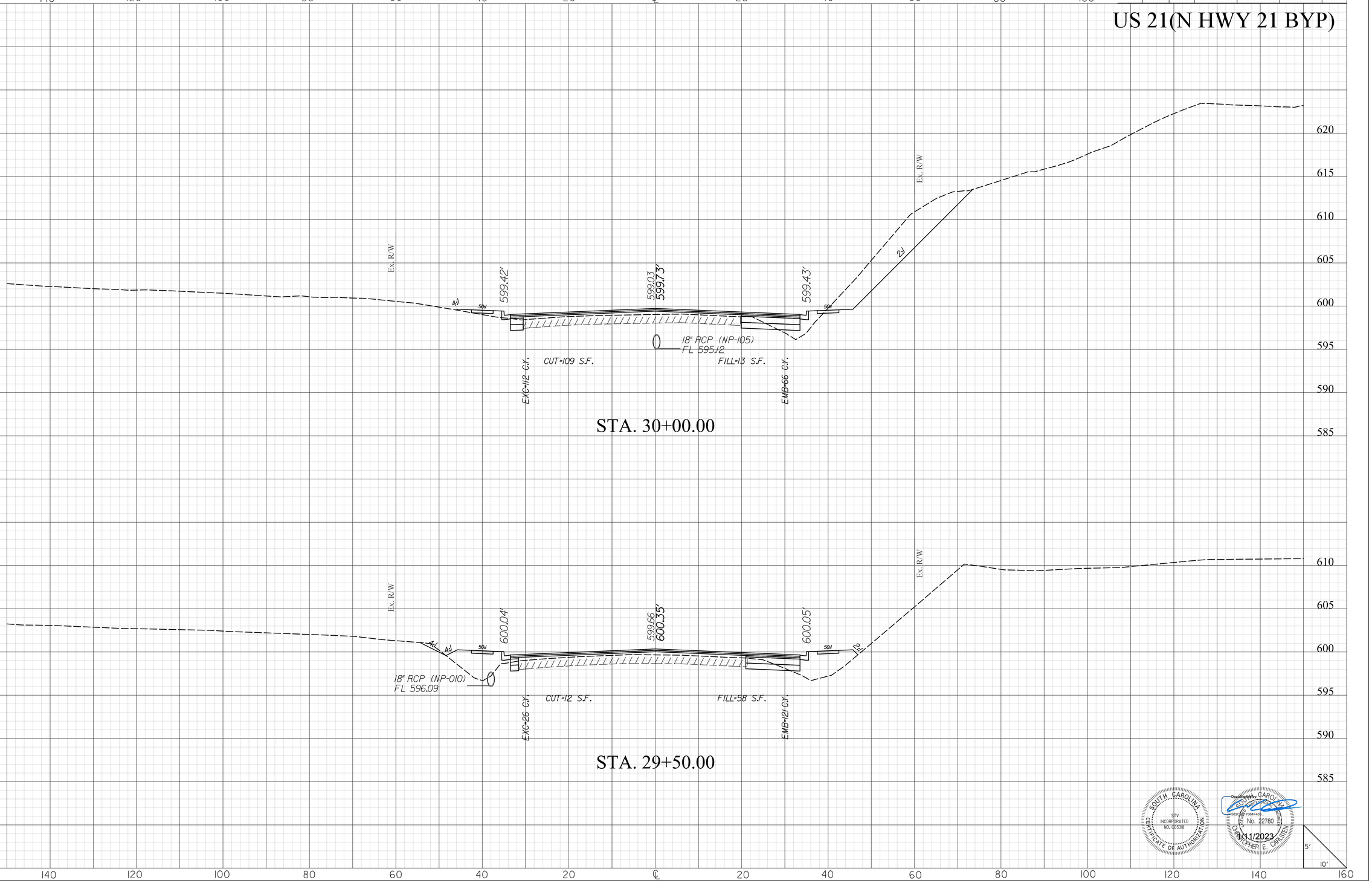
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X17

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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STV Incorporated
2450 MALL DRIVE
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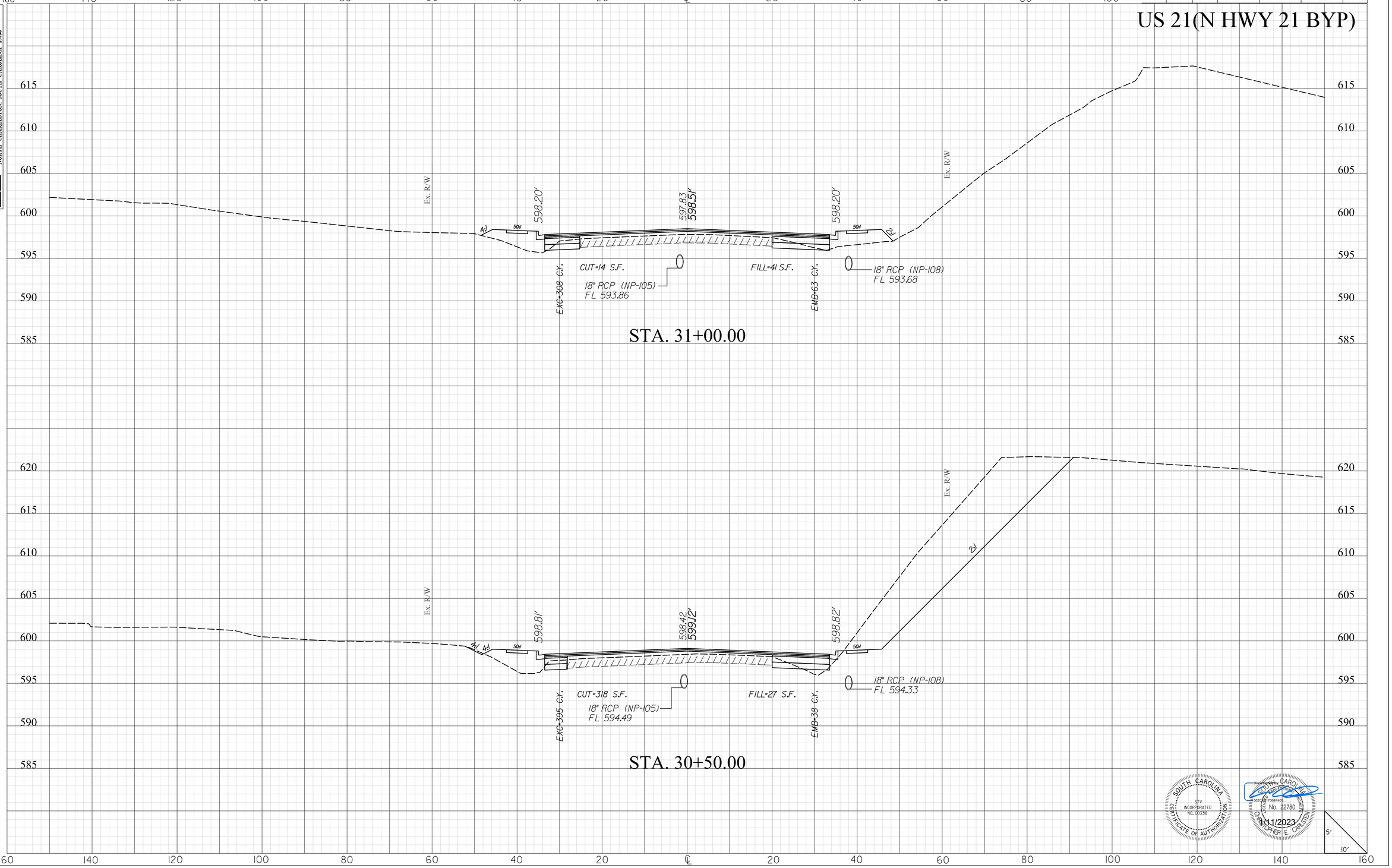
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X18

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
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SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSEN
1/11/2023

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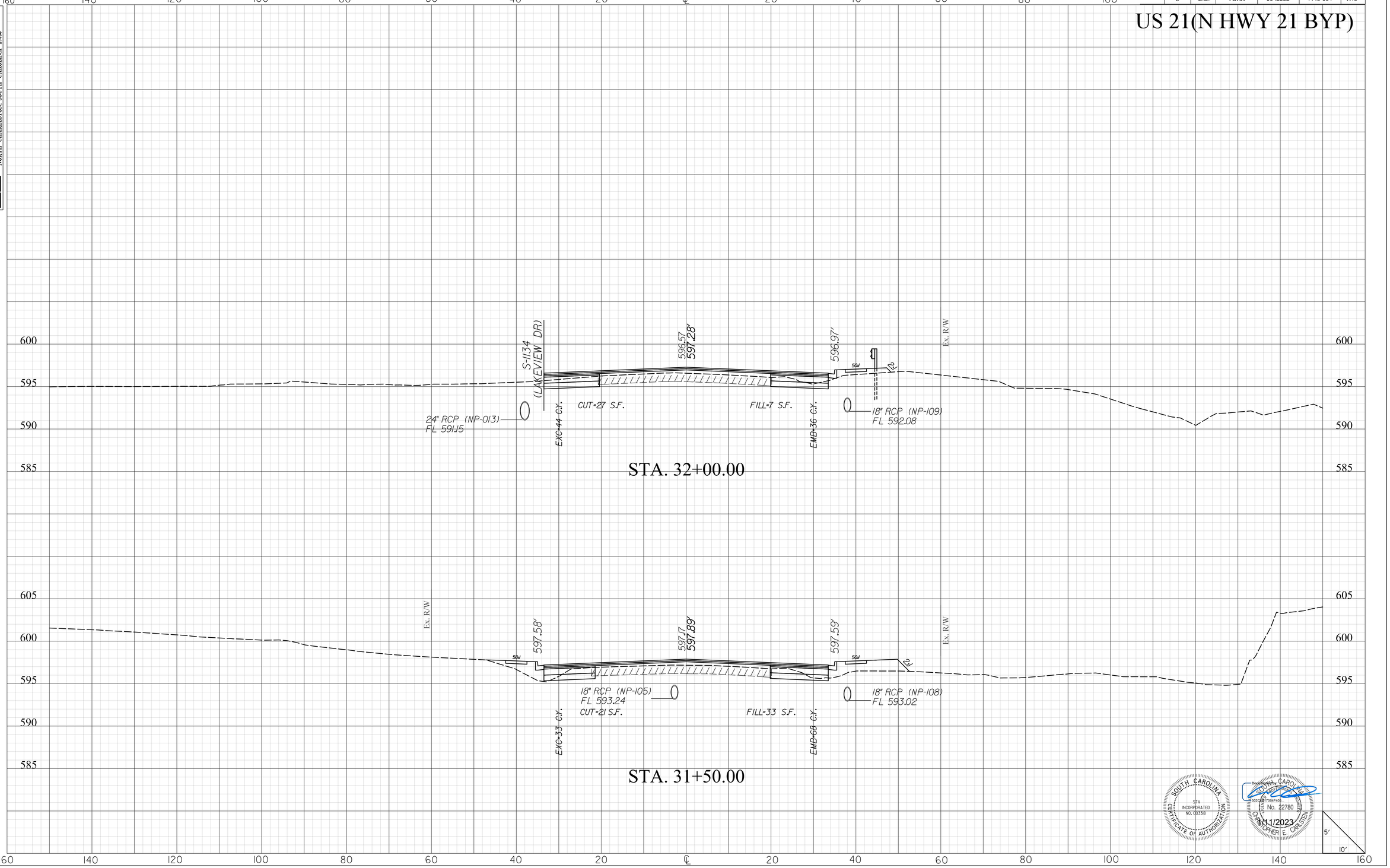
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X19

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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FINAL PLANS

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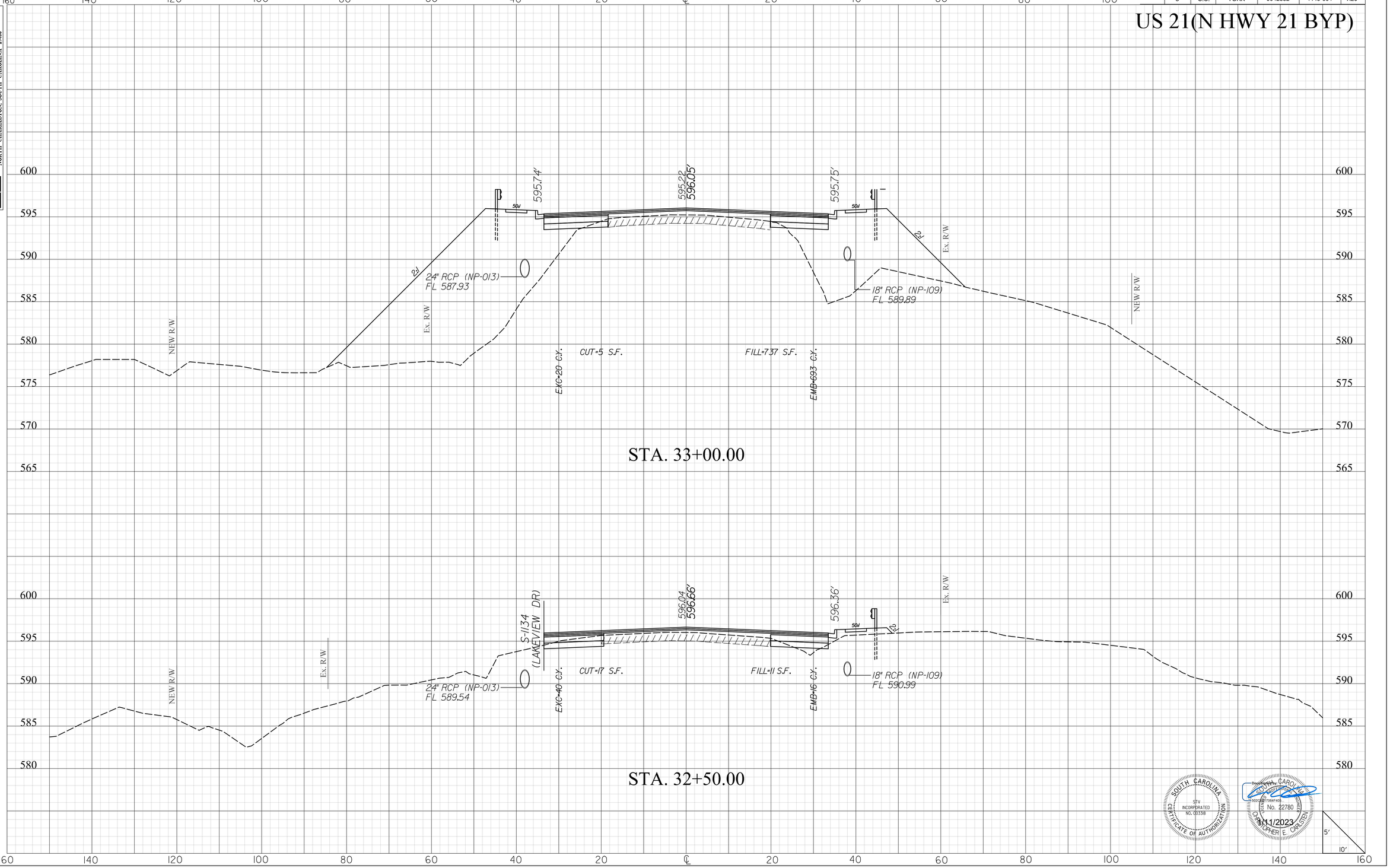
3	S.C.	YORK	0042332	1149-004	X20

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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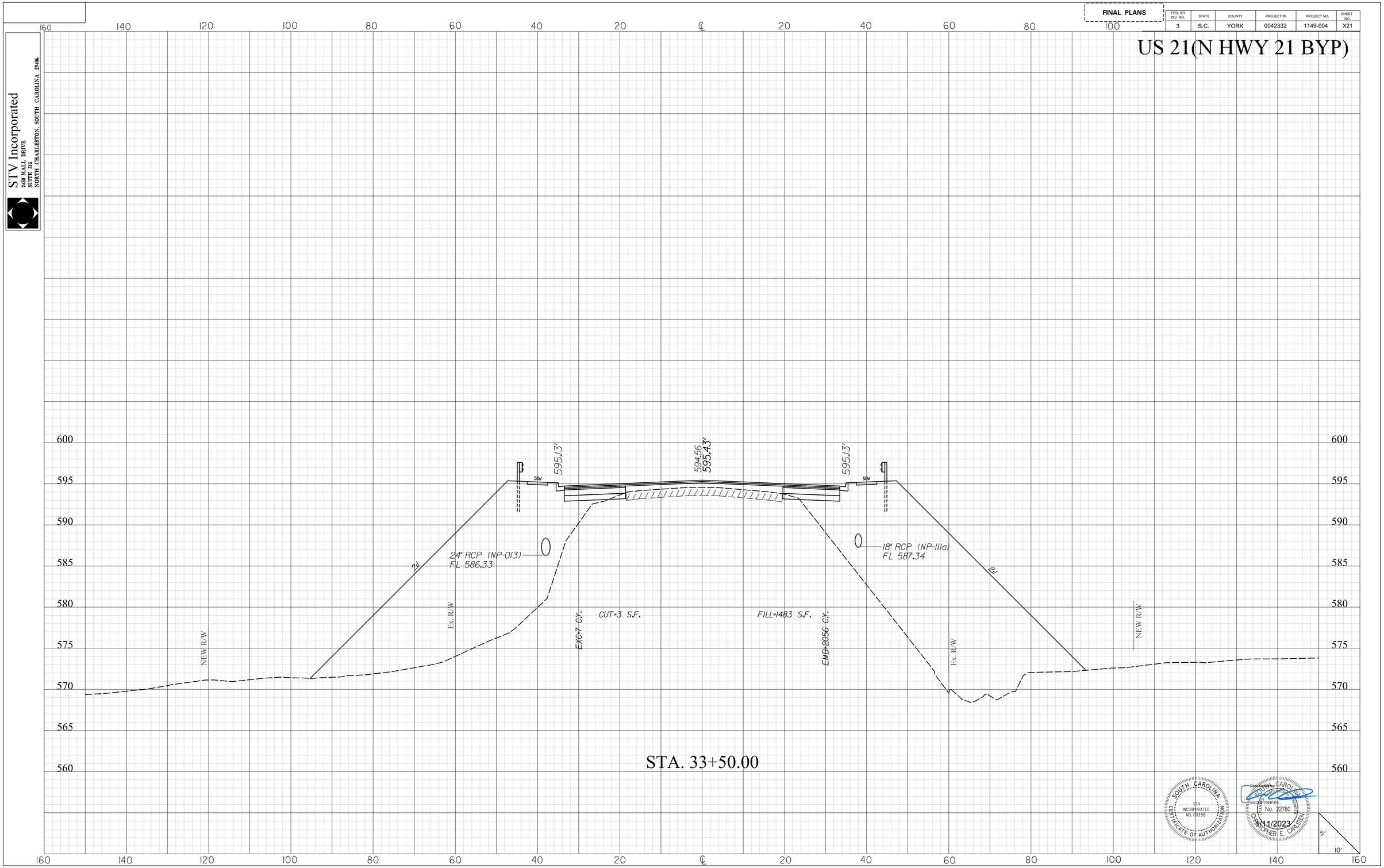
US 21(N HWY 21 BYP)



STA. 33+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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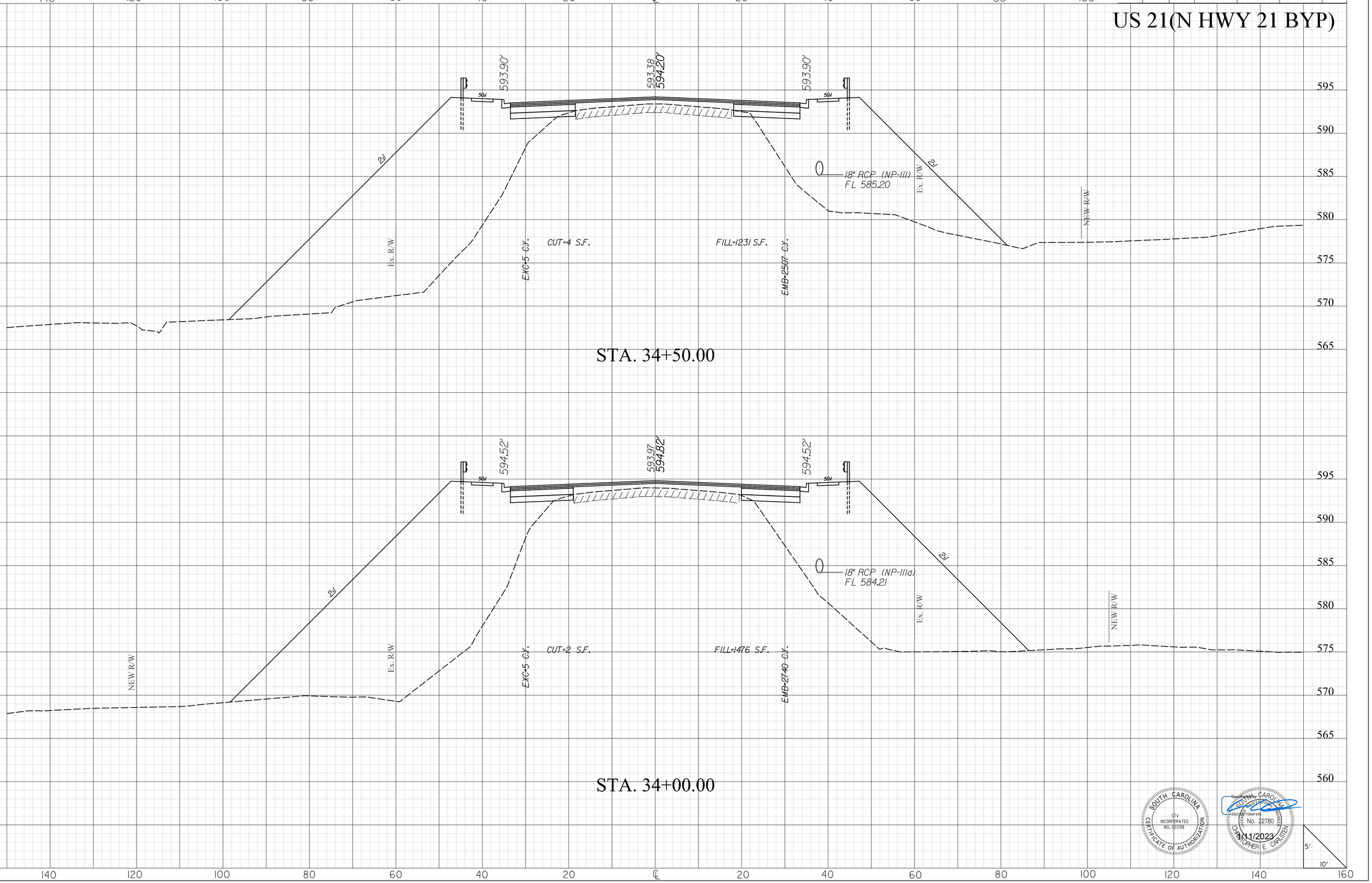
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X22

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)



SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C00338

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
1/11/2023

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1/10/2023

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DocuSign Envelope ID: AFA916DC-DDA3-41C4-BCC1-1C9A76809E64

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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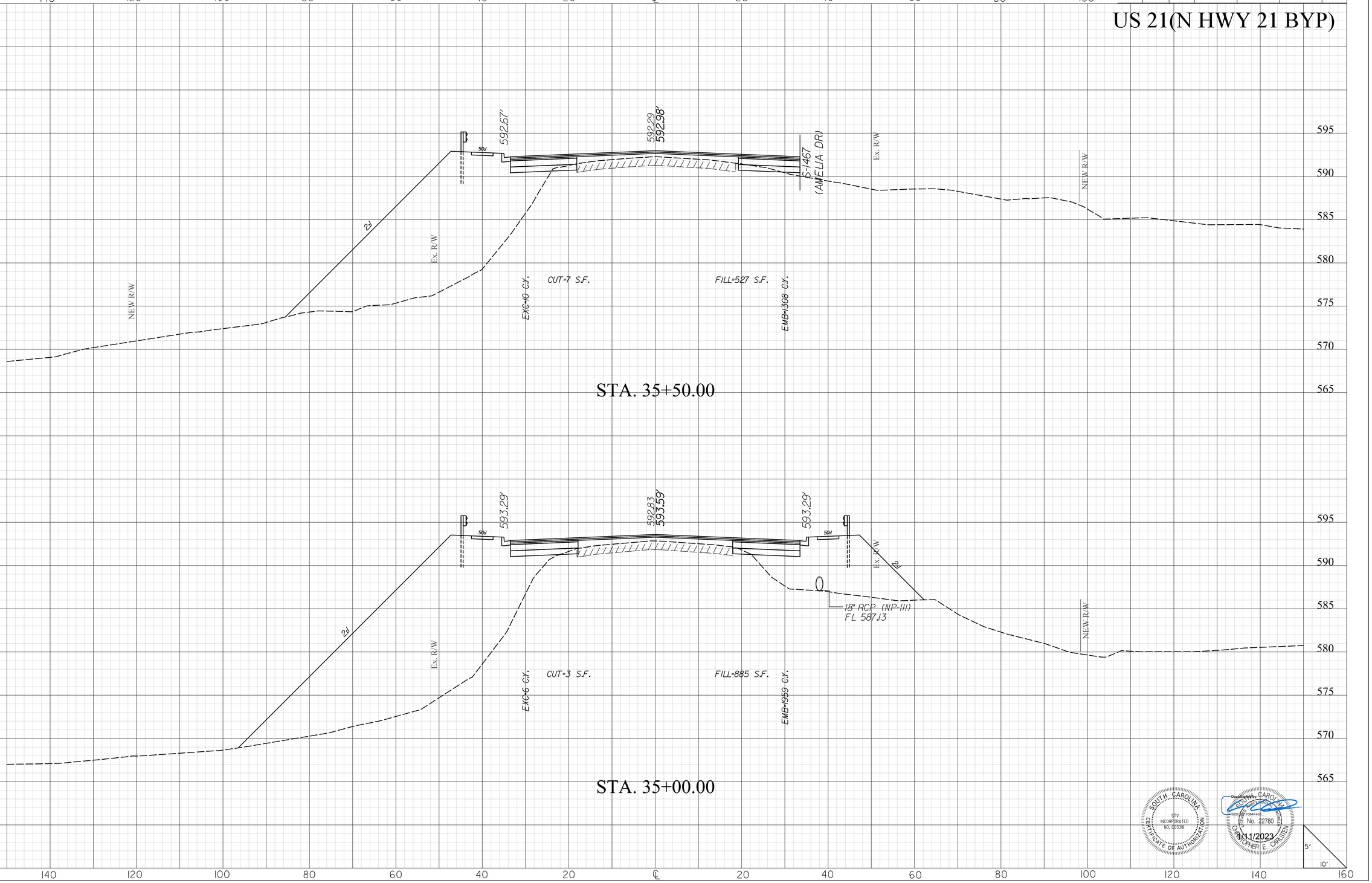
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV
INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSEN
1/11/2023

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1/10/2023

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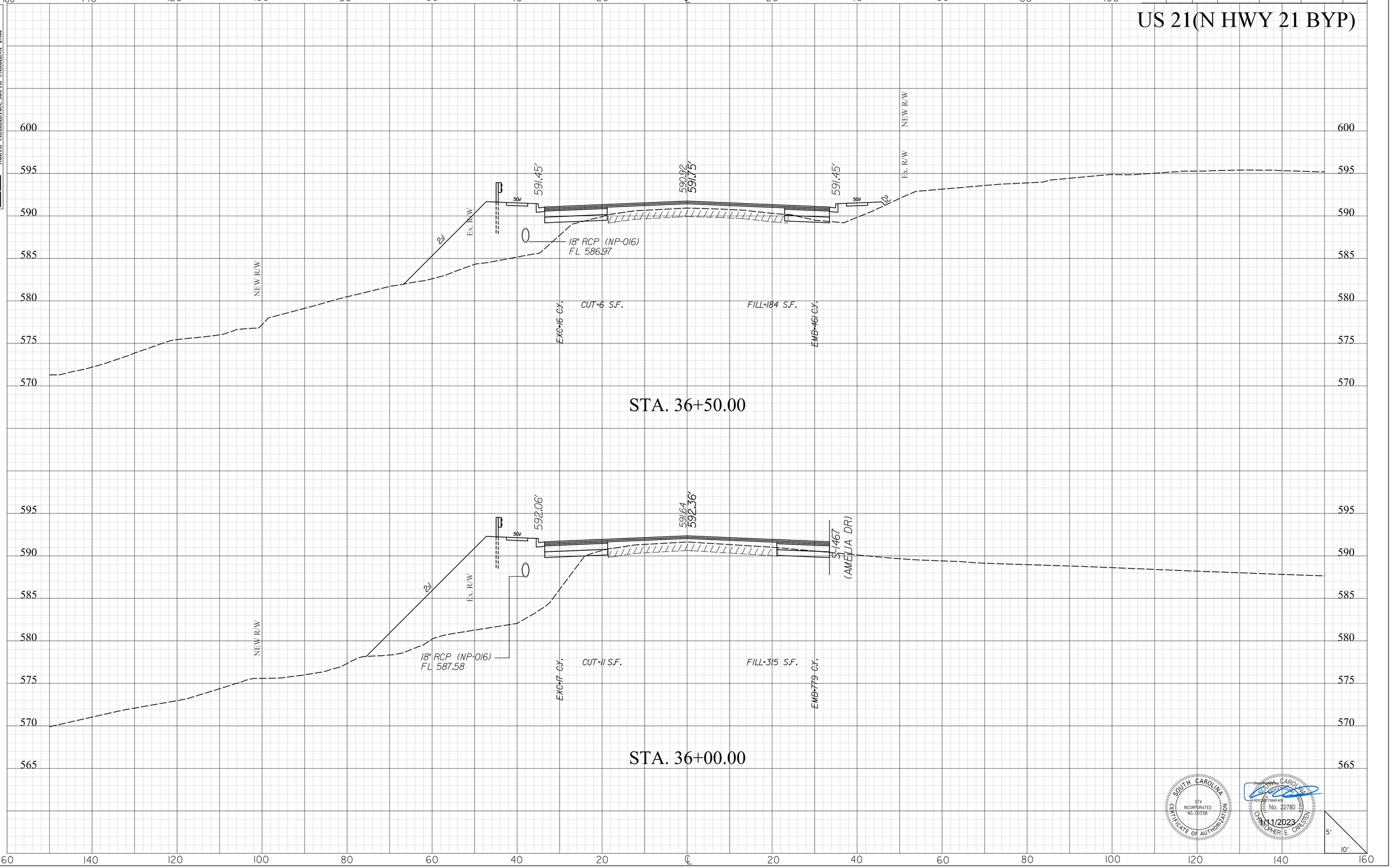
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X24

US 21(N HWY 21 BYP)

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSTEN

1/11/2023

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1/10/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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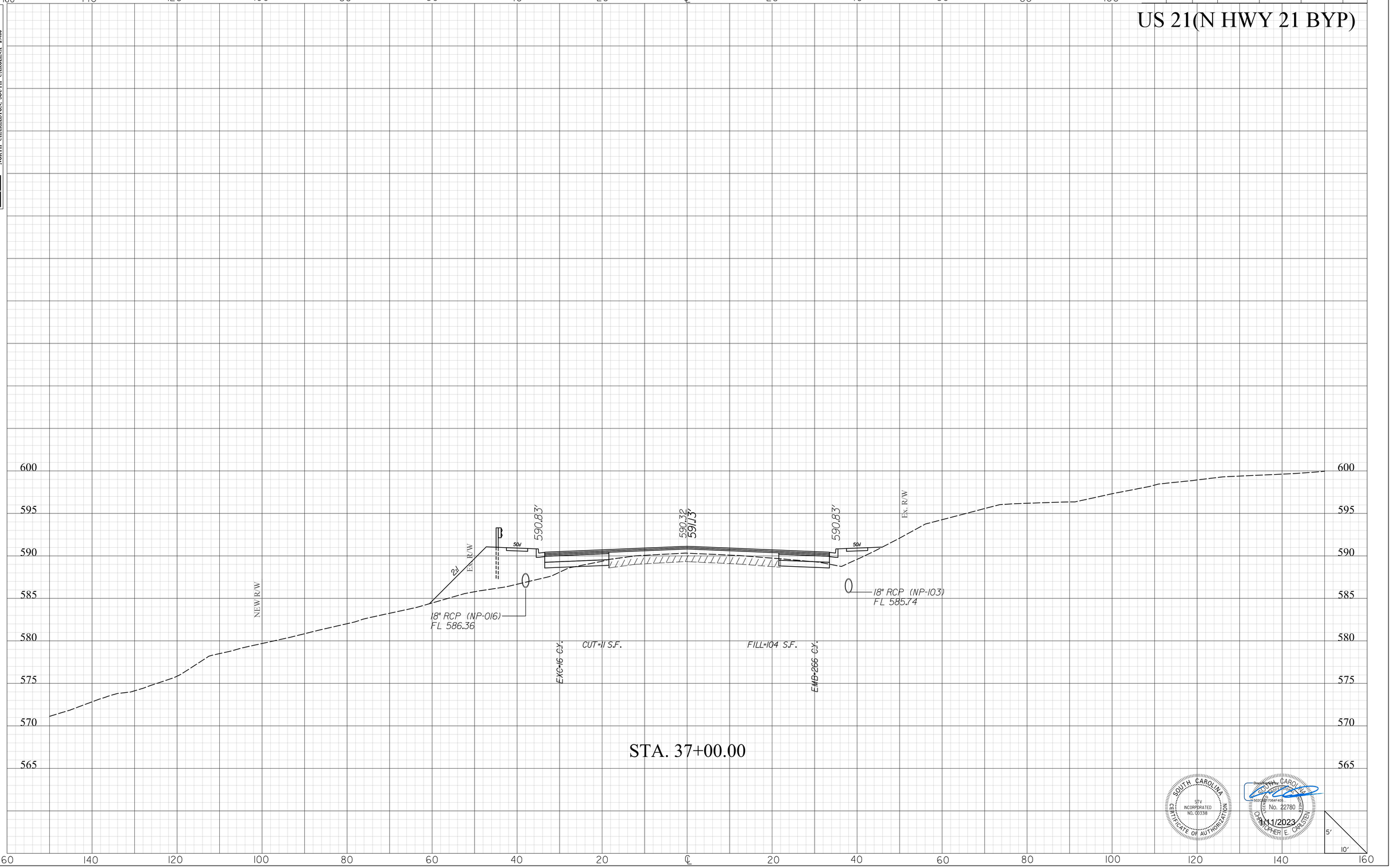

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARSTEN
No. 22780
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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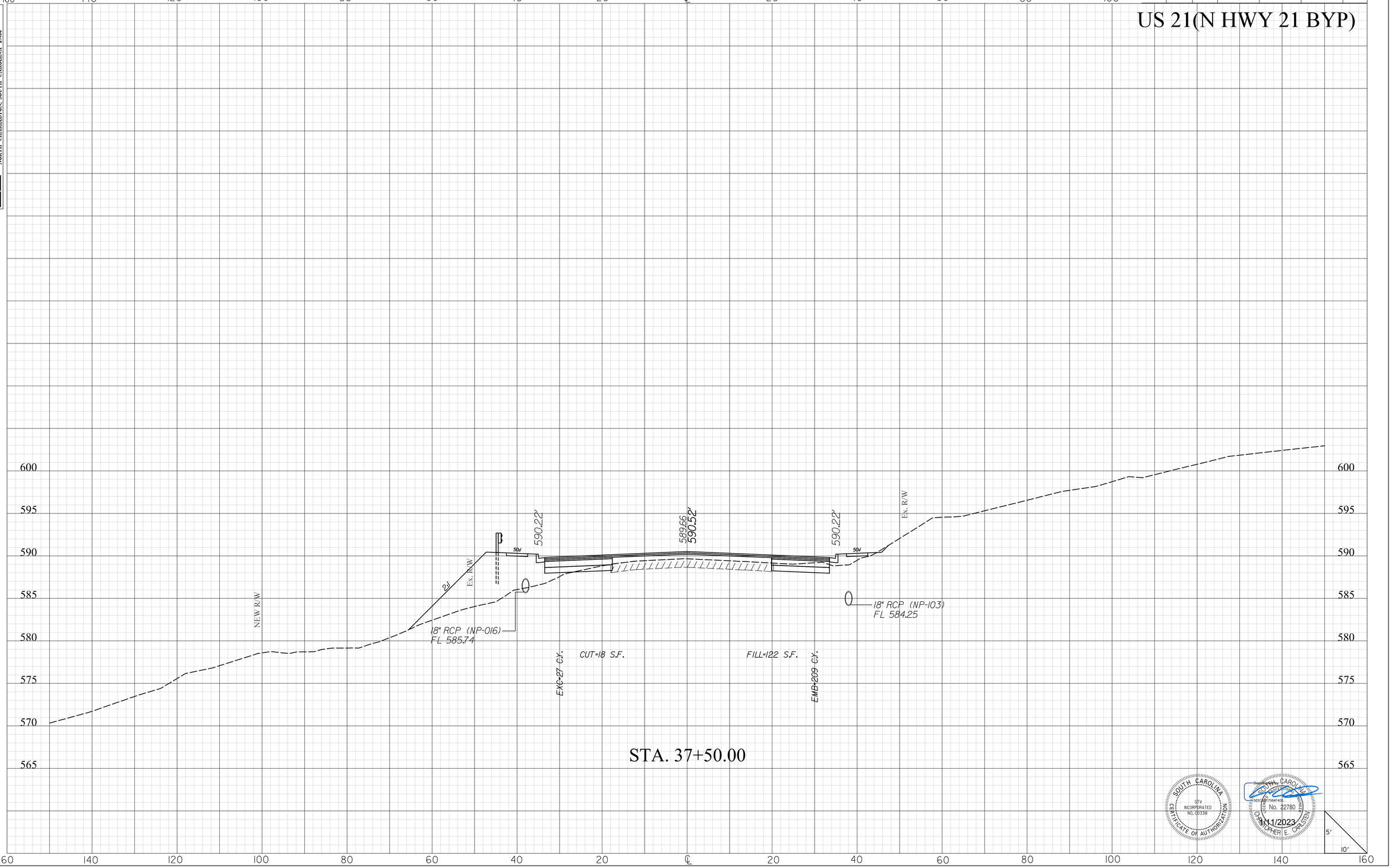
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

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No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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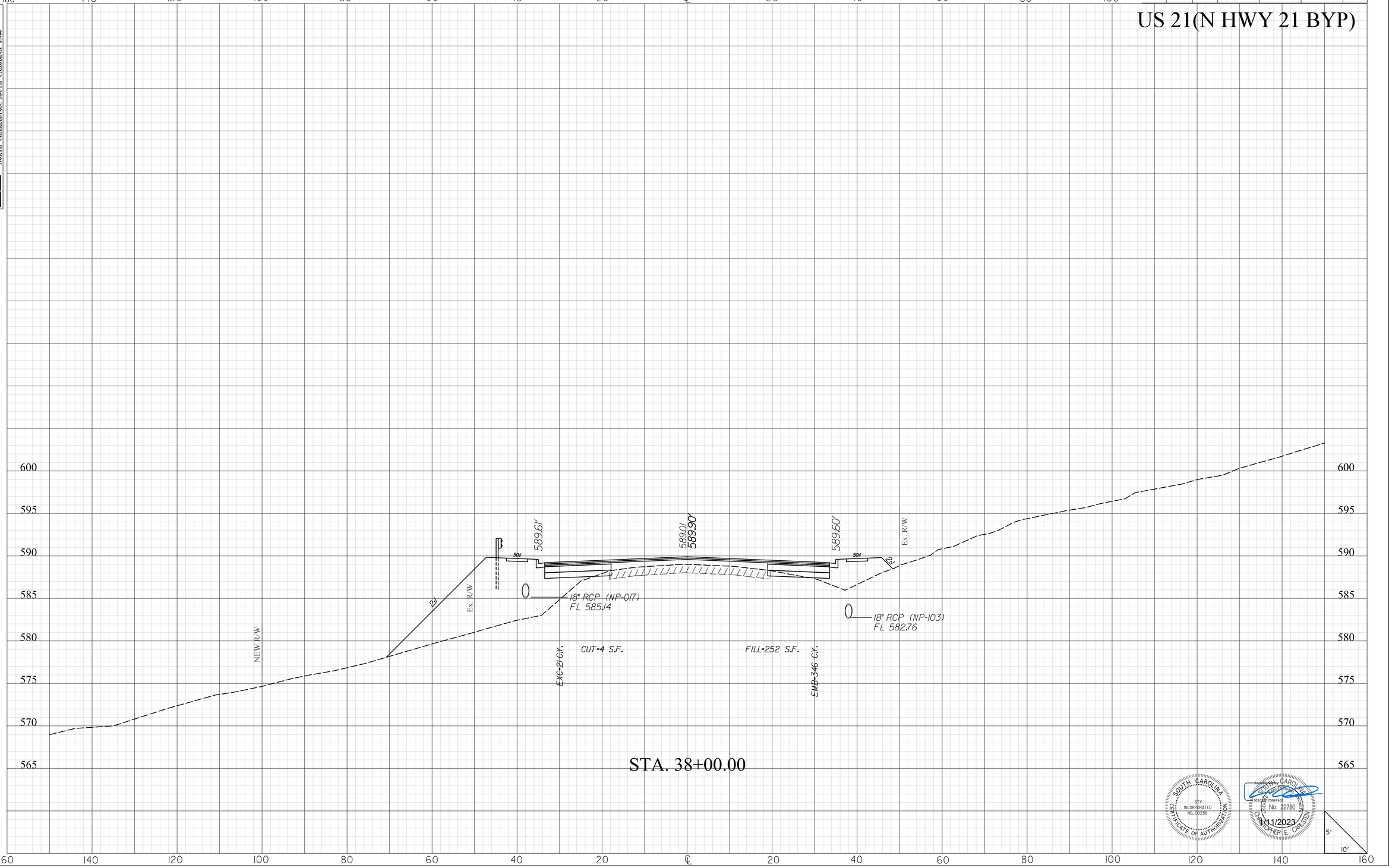
US 21(N HWY 21 BYP)



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STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X28

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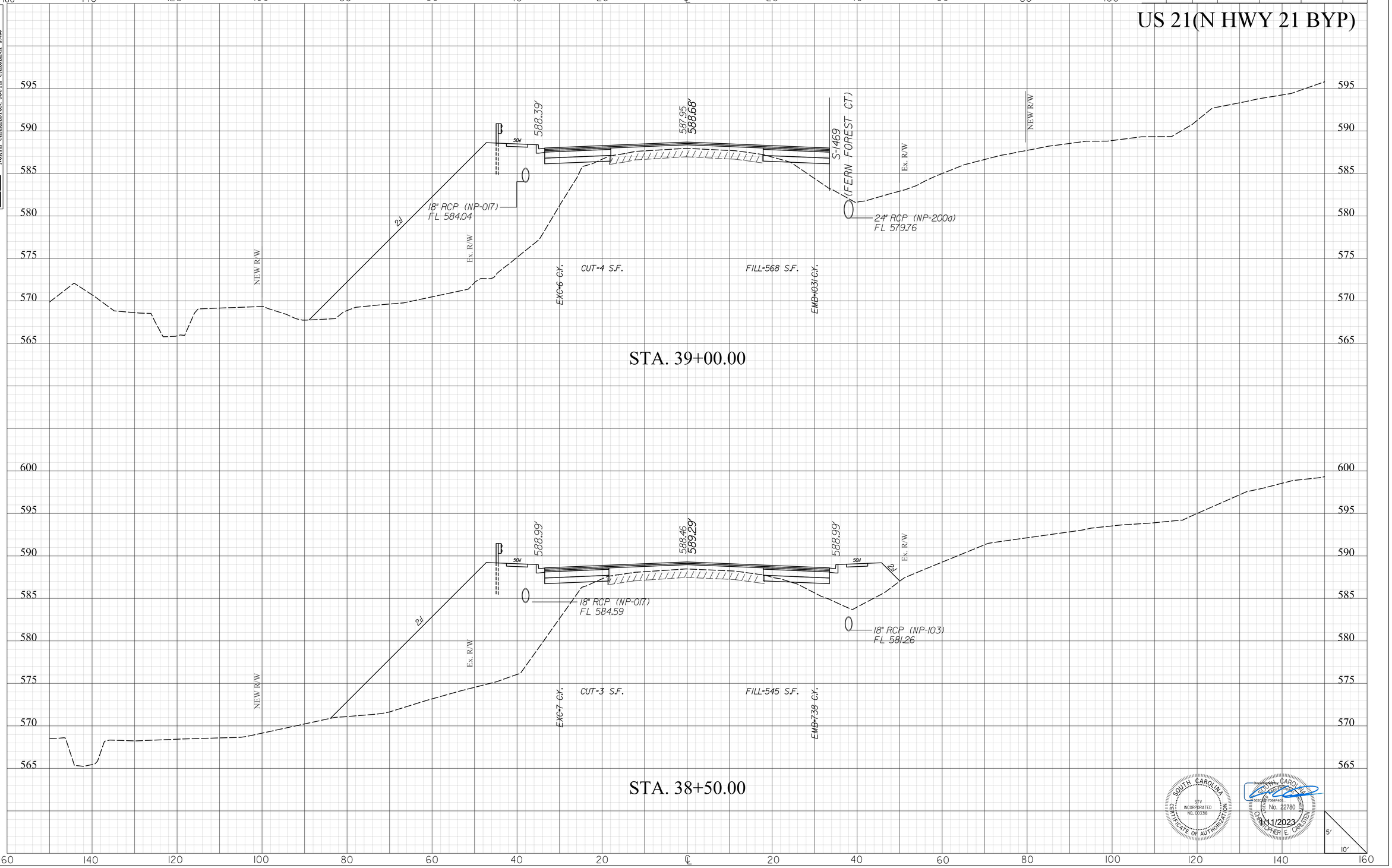

SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C00338

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

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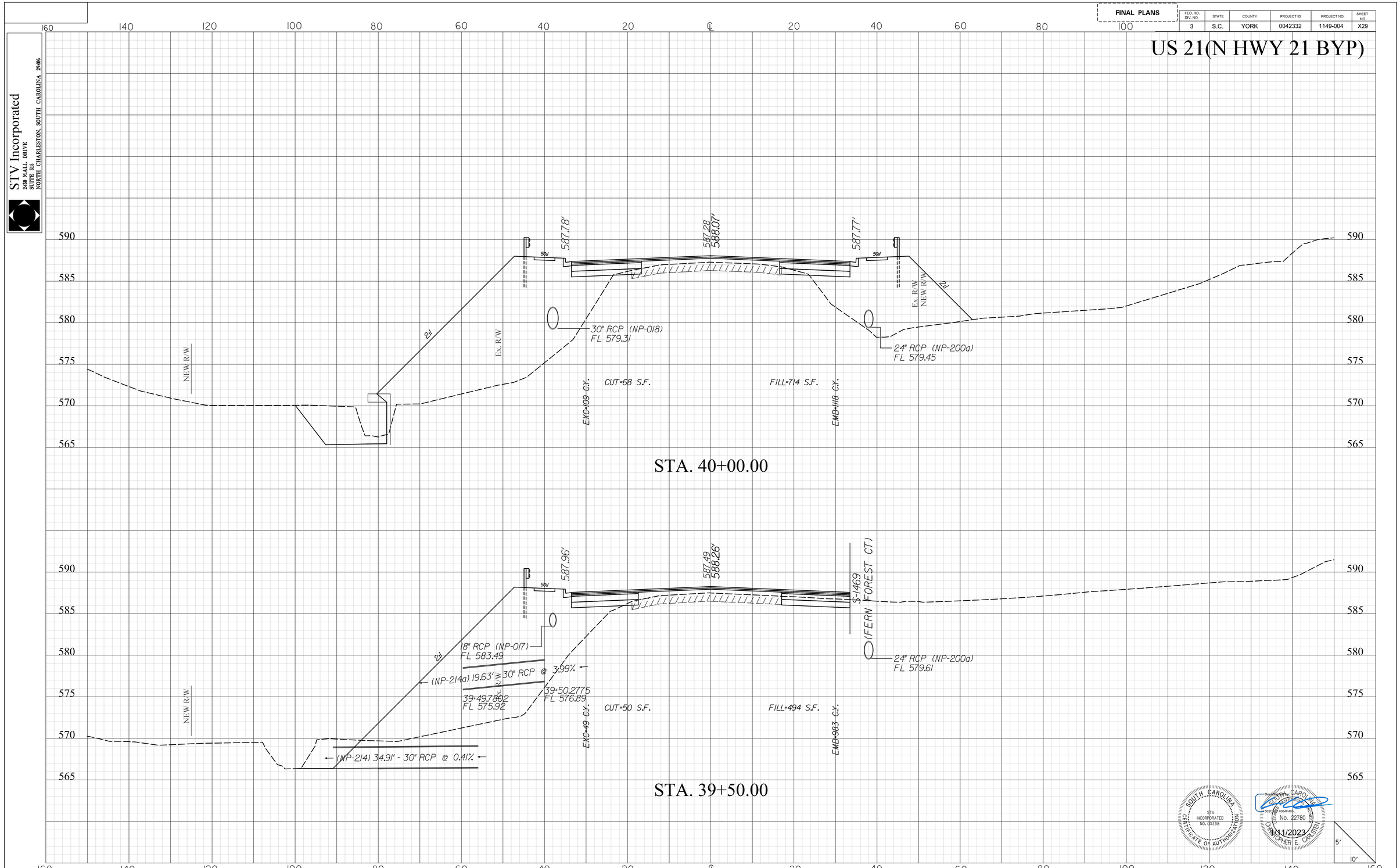
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X29

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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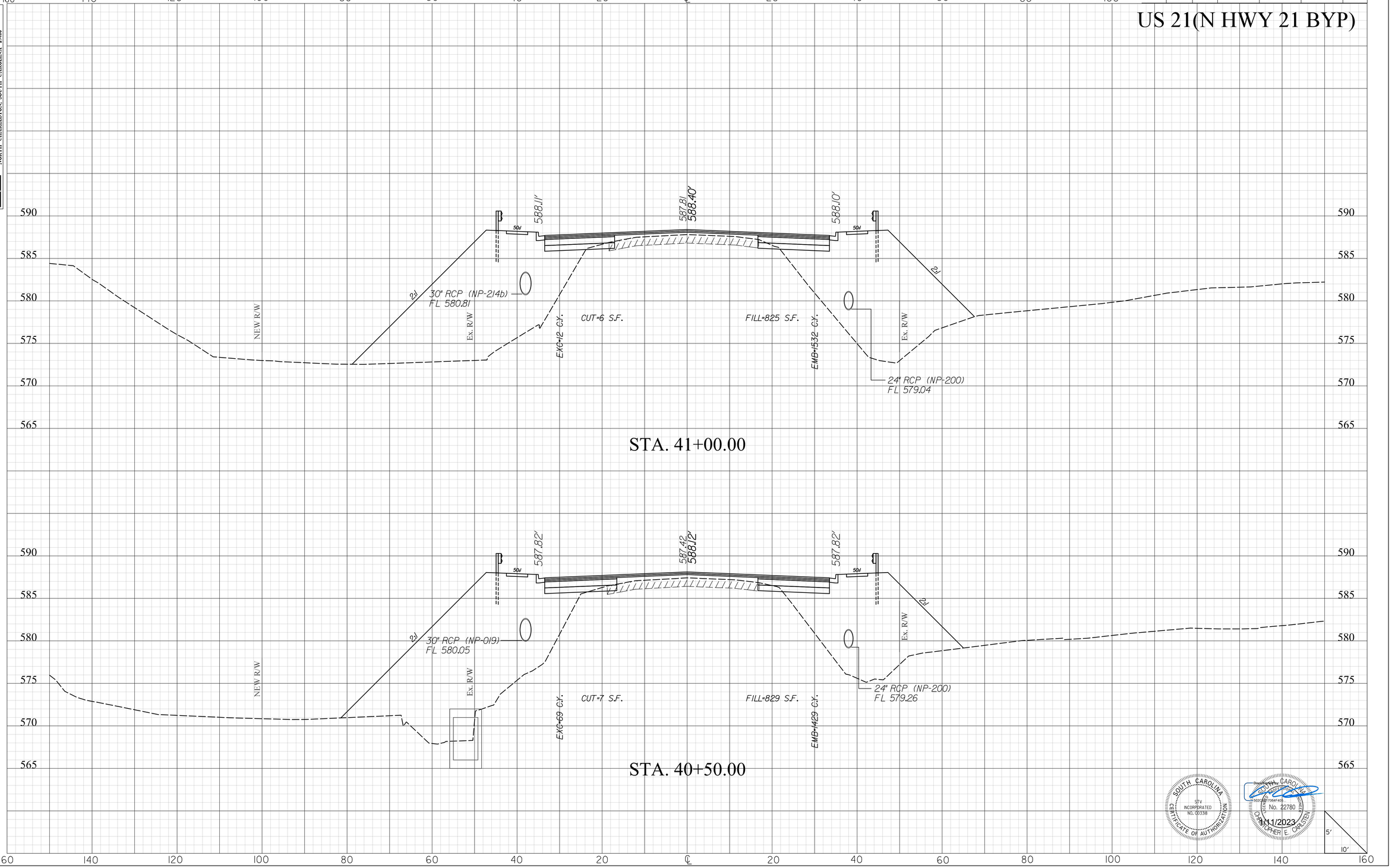
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN

1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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US 21(N HWY 21 BYP)

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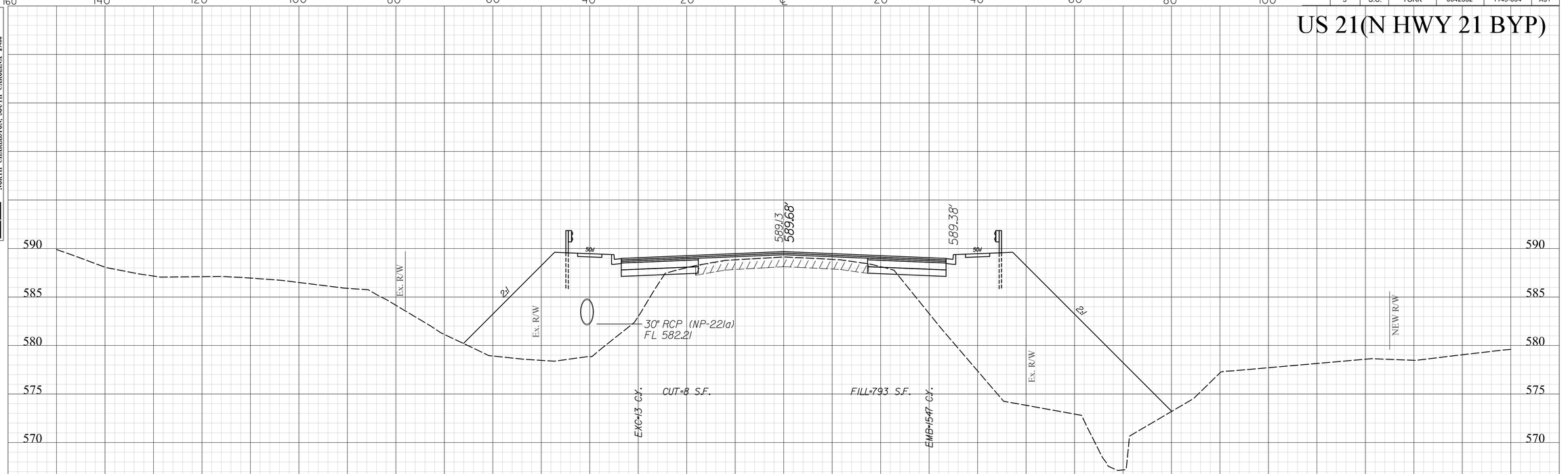

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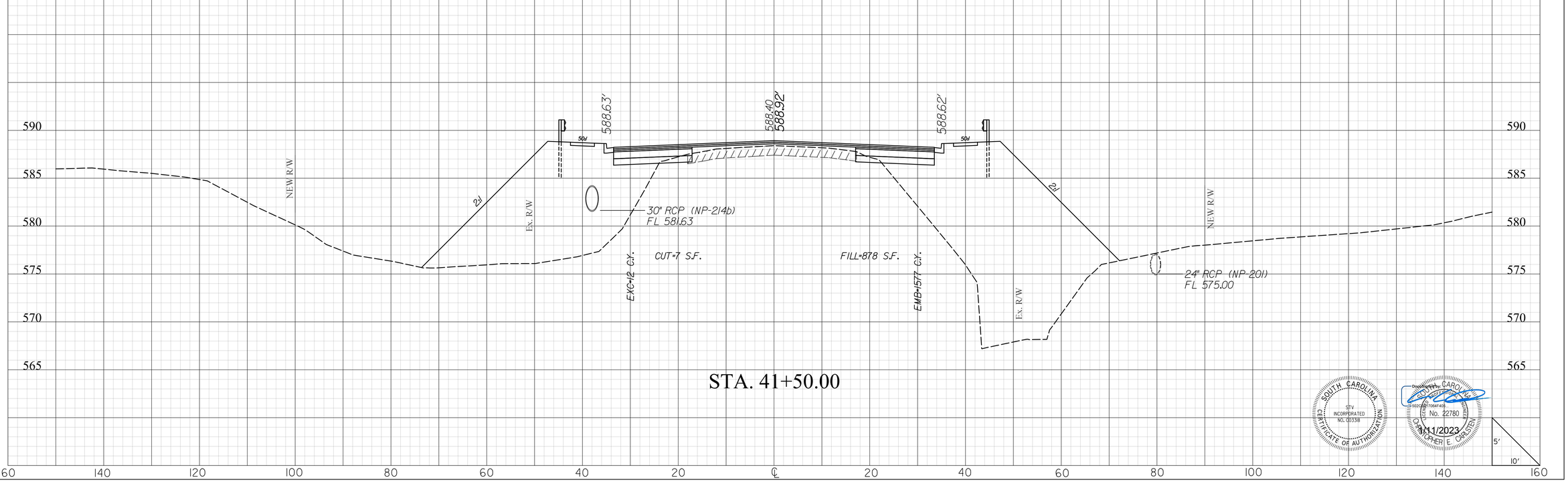

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1/11/2023

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1/10/2023

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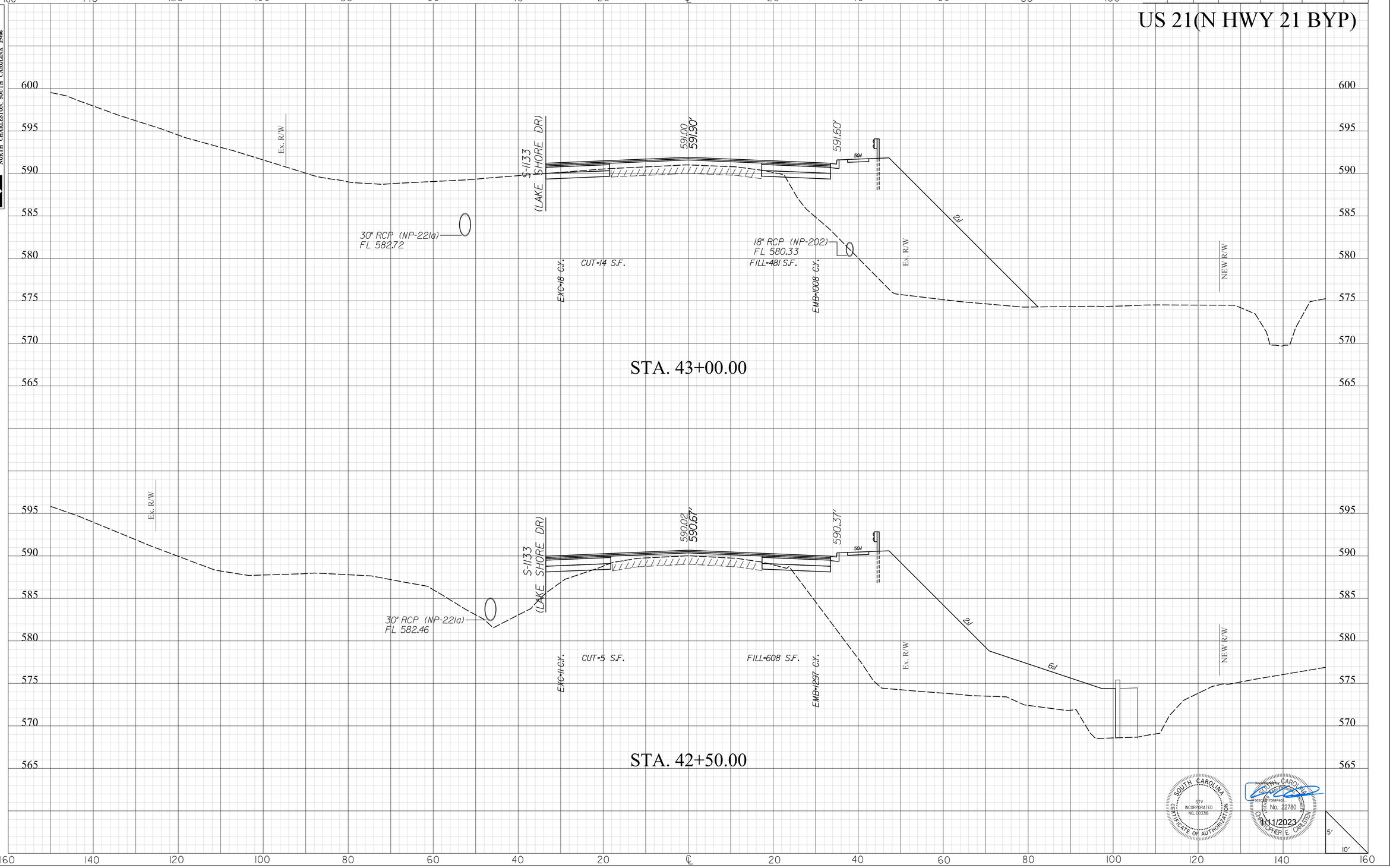
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X32

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

20XS.DGN

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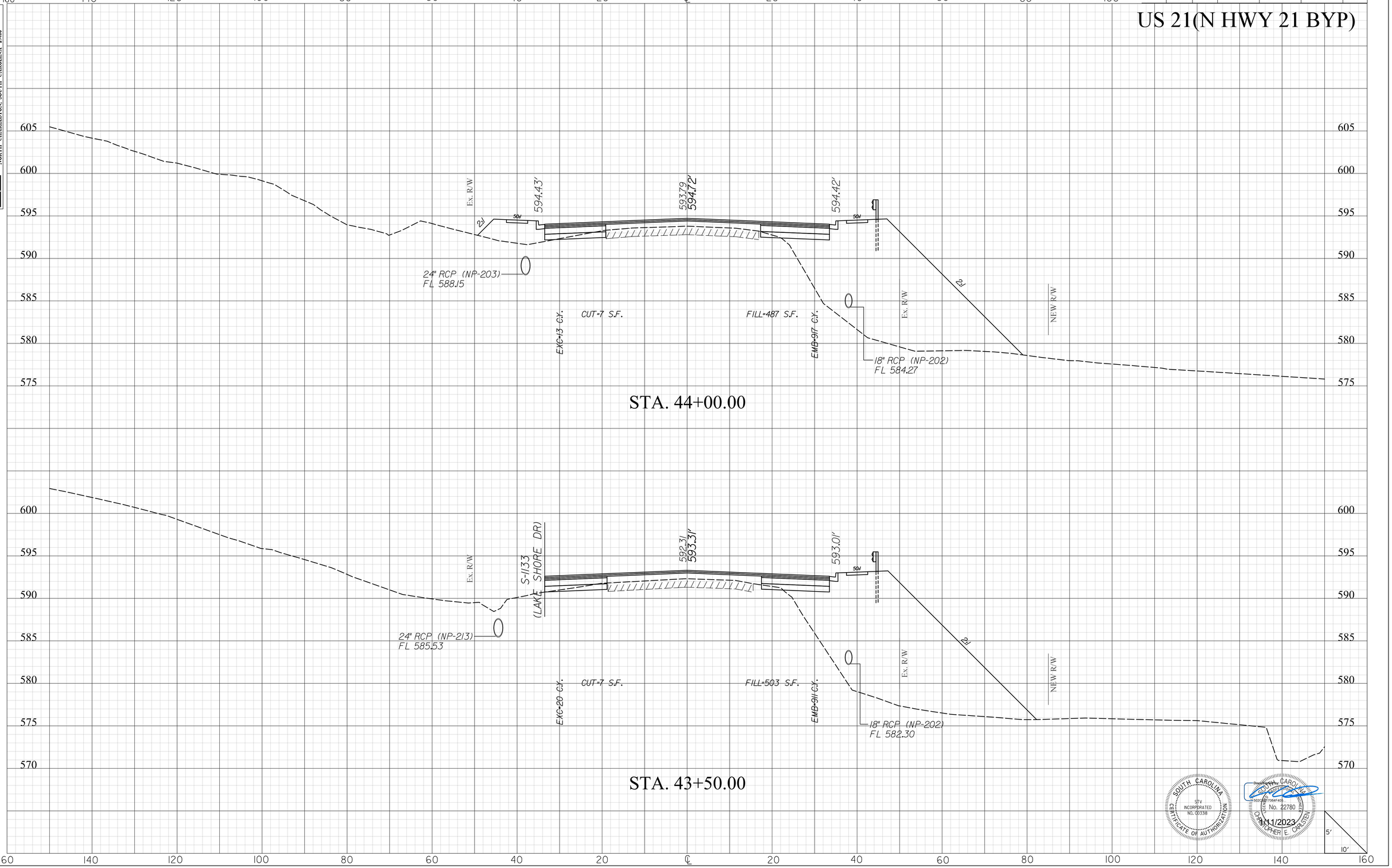
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X33

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
CHRISTOPHER E CARLSTEN
1/11/2023

masflitg
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1/10/2023

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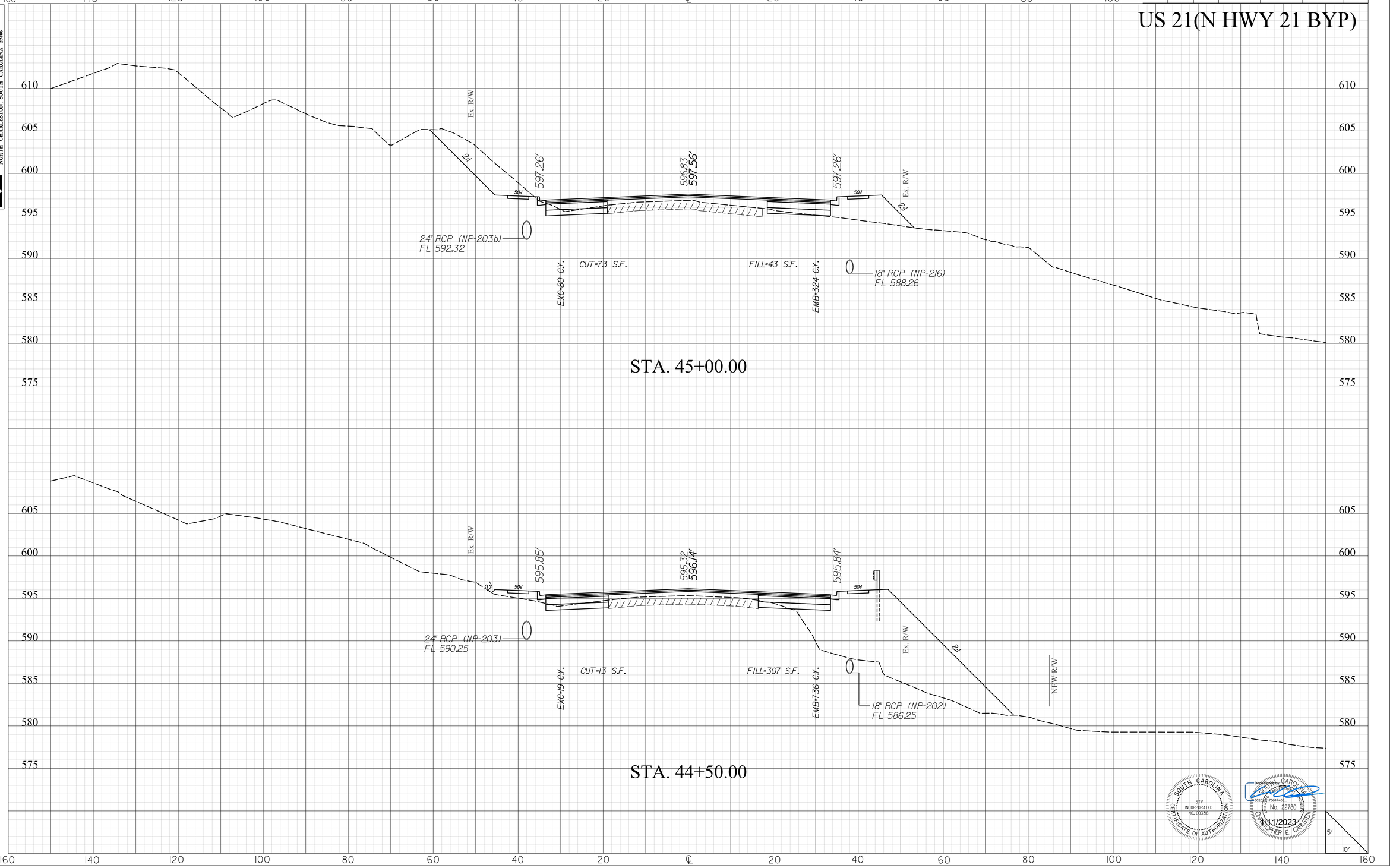
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X34

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARSTEN
No. 22780
CHRISTOPHER E CARSTEN
1/11/2023

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1/10/2023

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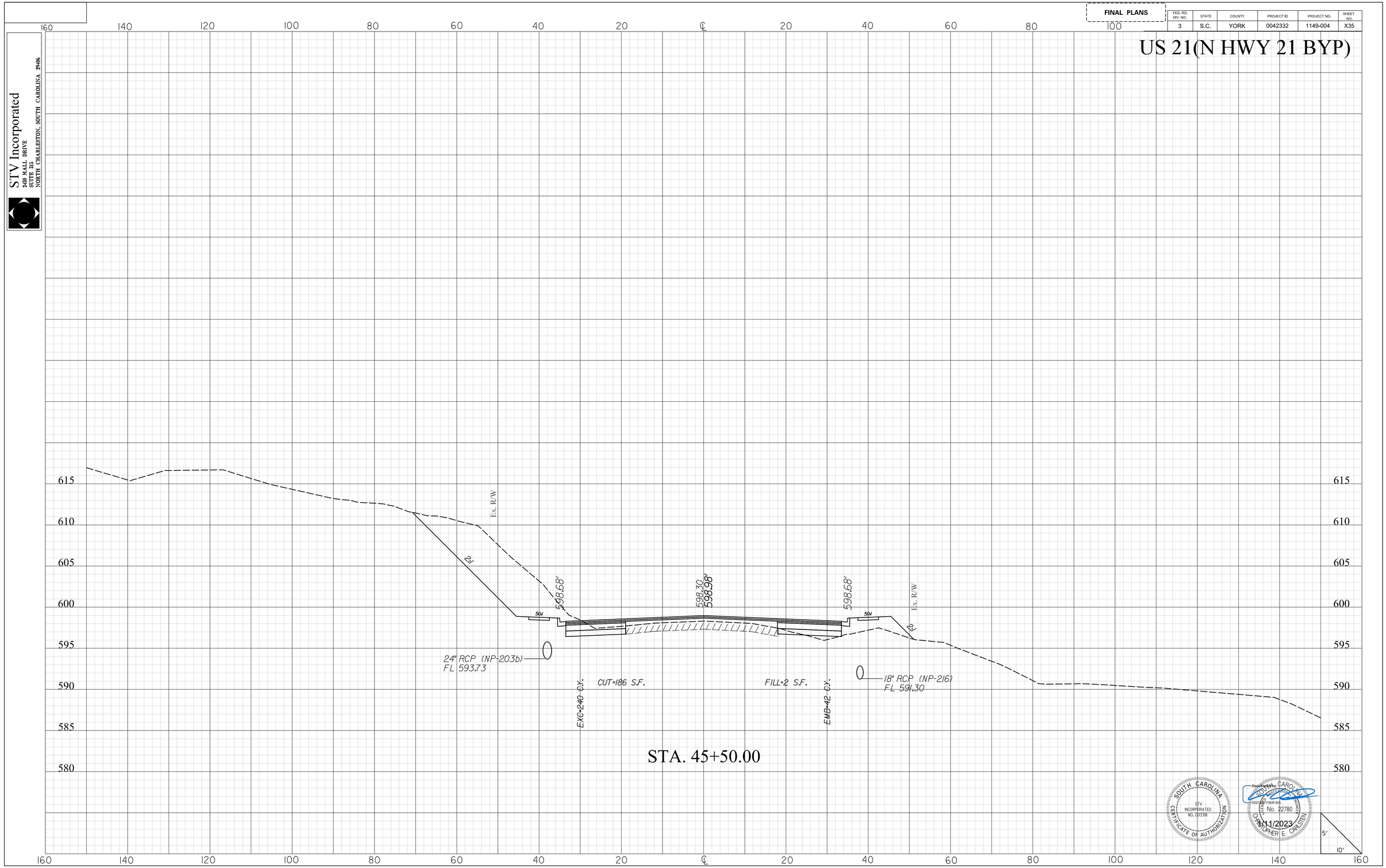
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X35

US 21(N HWY 21 BYP)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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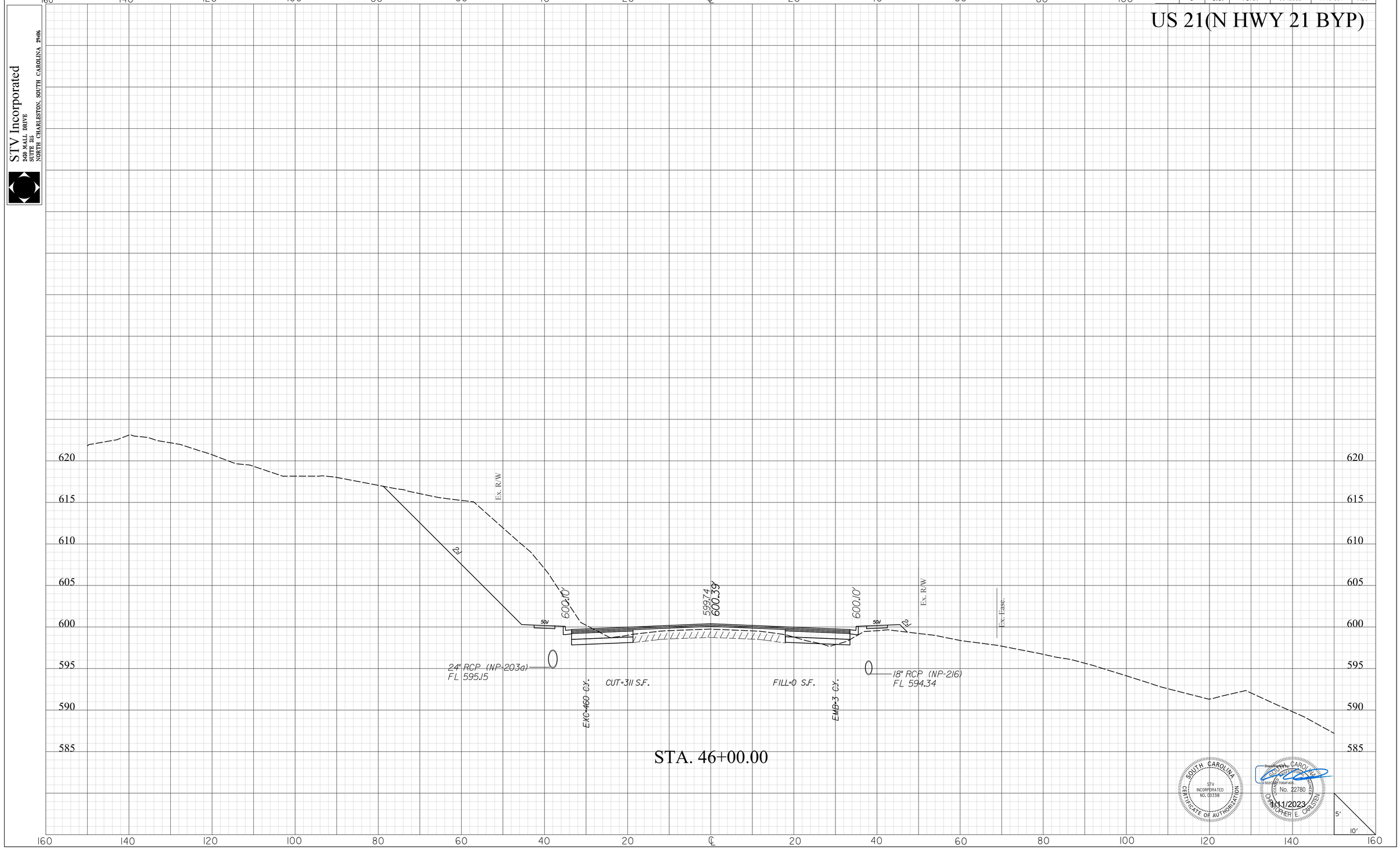
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X36

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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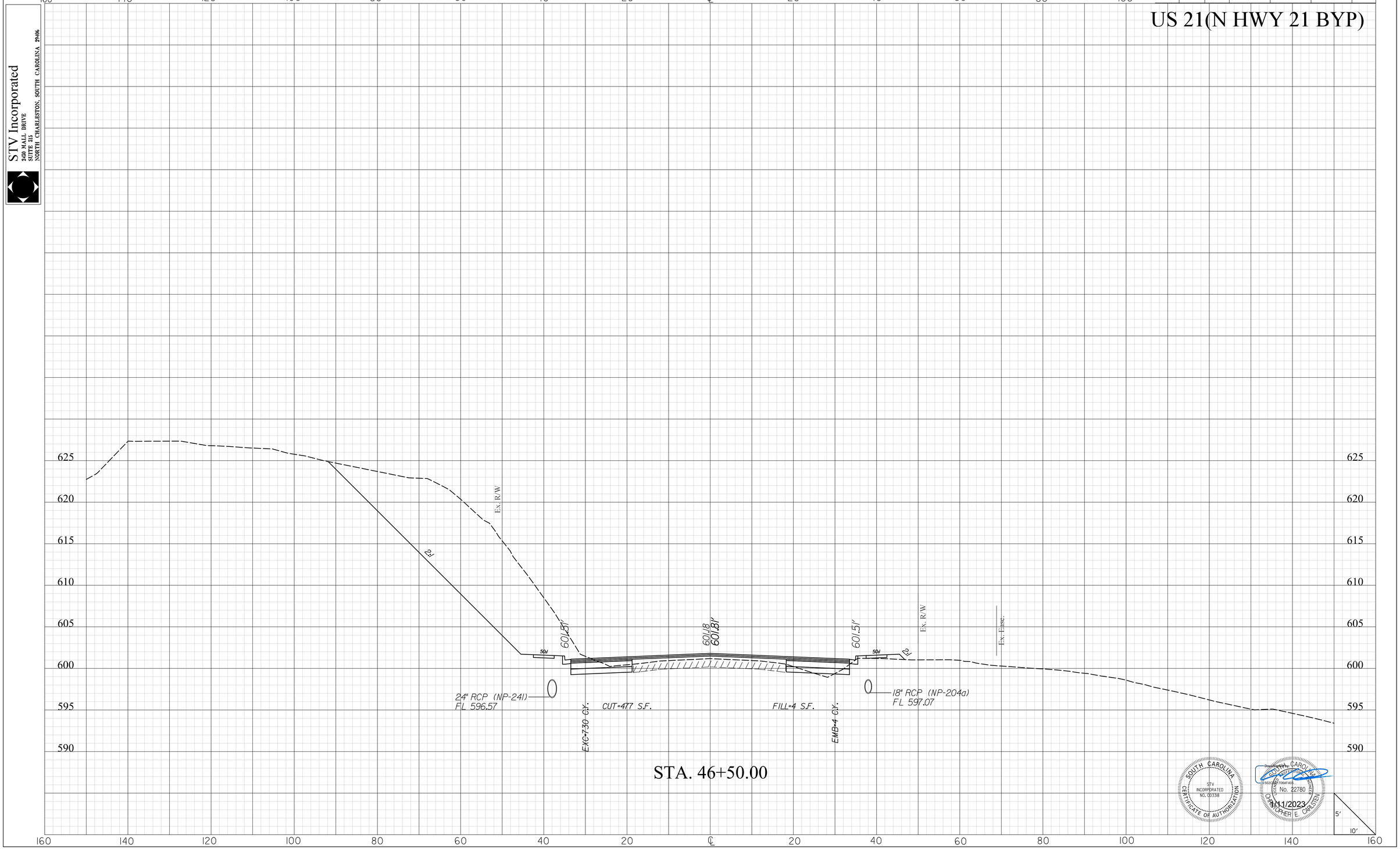
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X37

US 21(N HWY 21 BYP)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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SOUTH CAROLINA
STV INCORPORATED
NO. 003318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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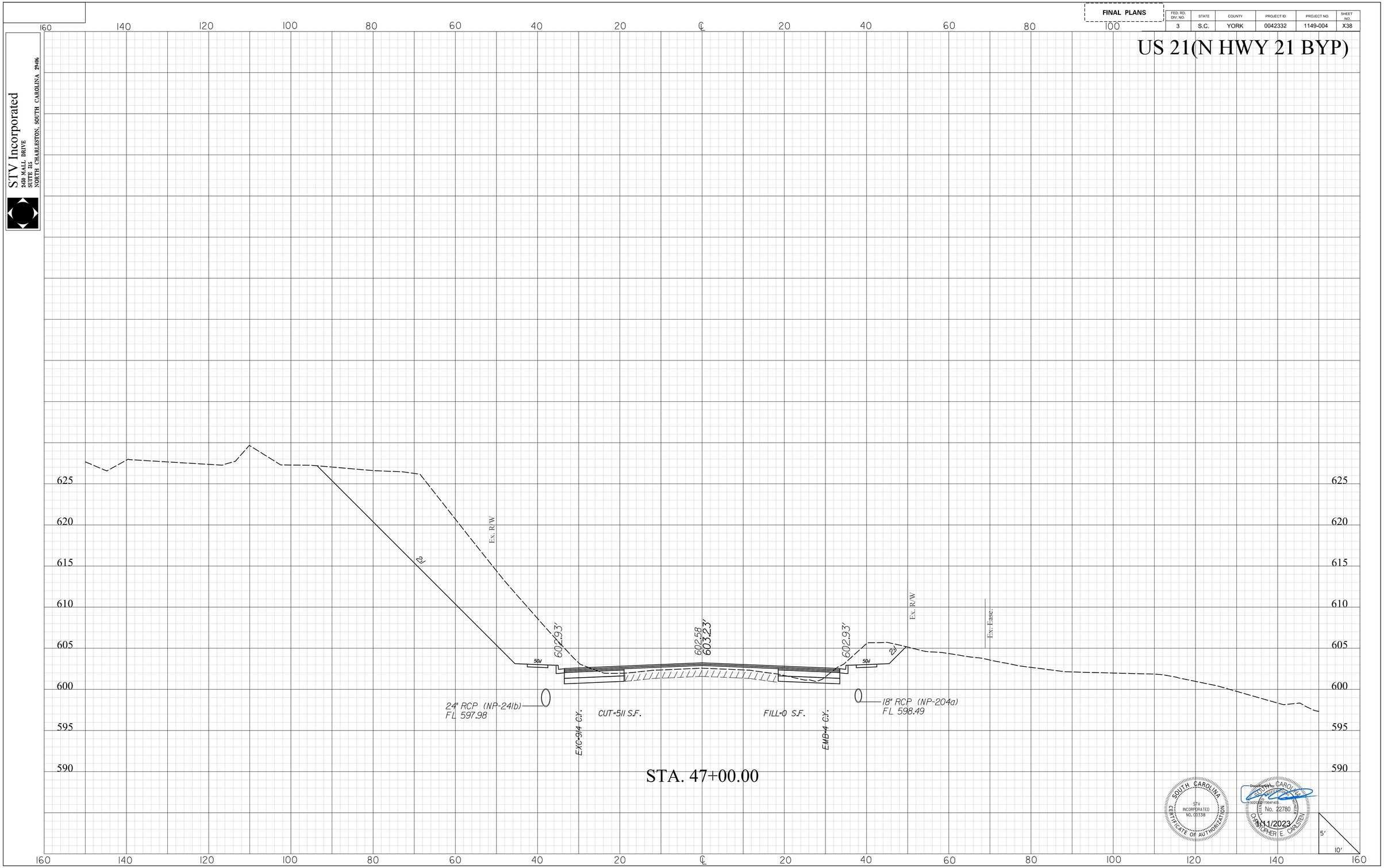
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X38

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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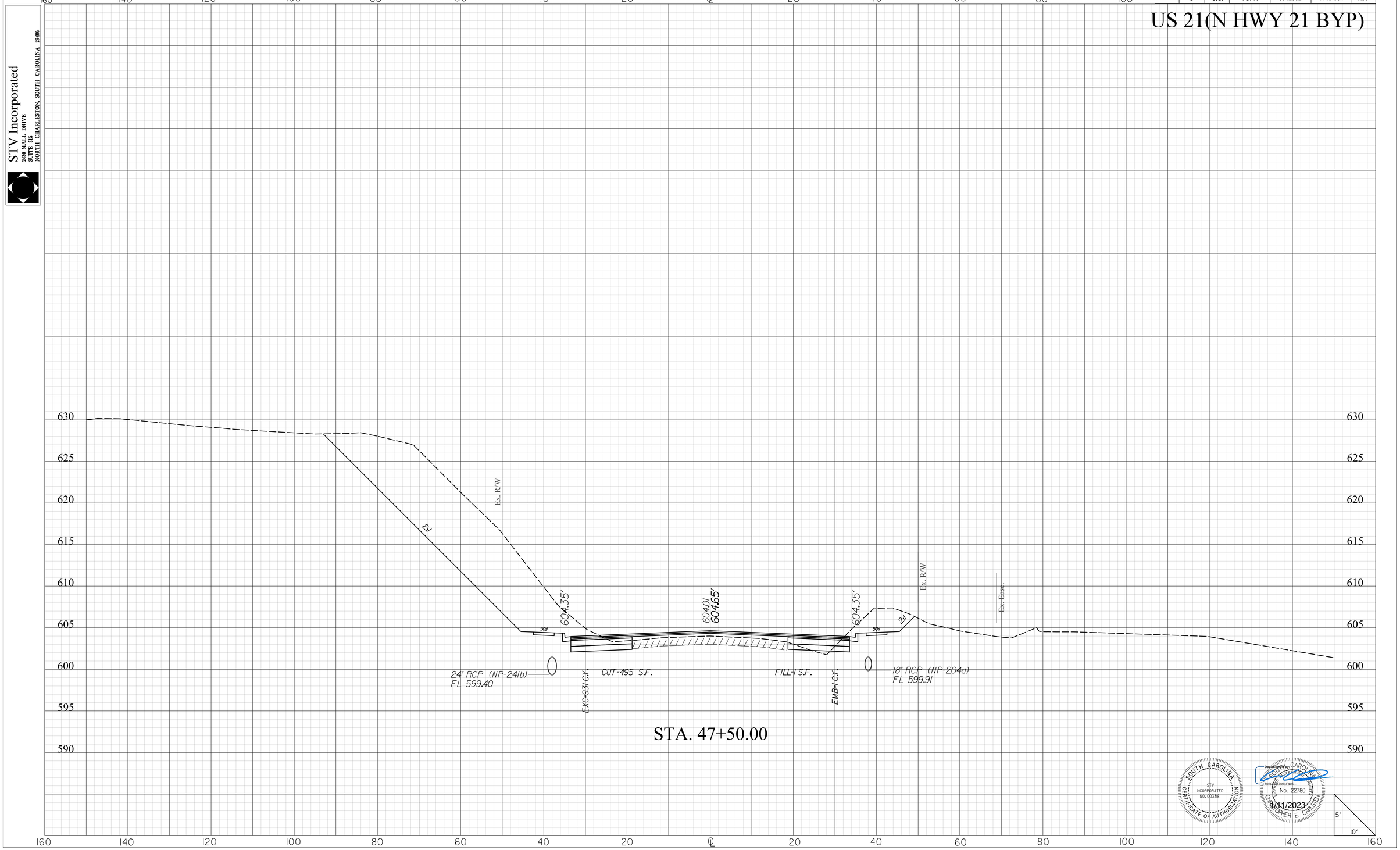
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X39

US 21(N HWY 21 BYP)



STA. 47+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSEN
1/11/2023

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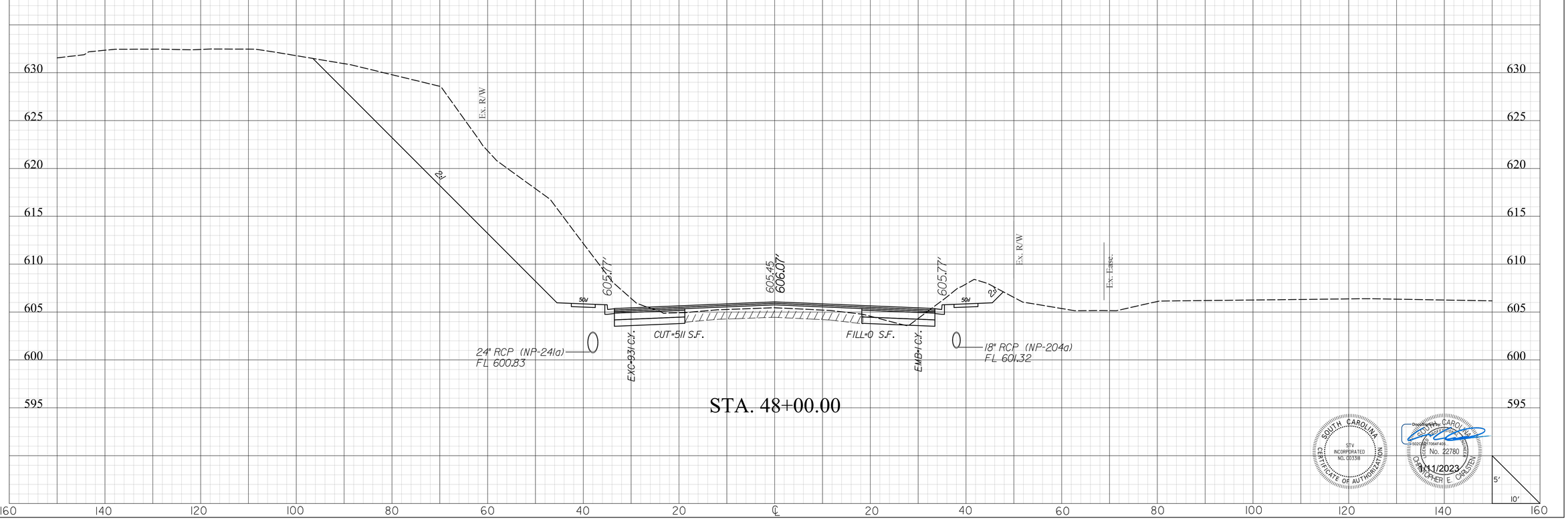
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X40

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
CHRISTOPHER E CARLSTEN
1/11/2023

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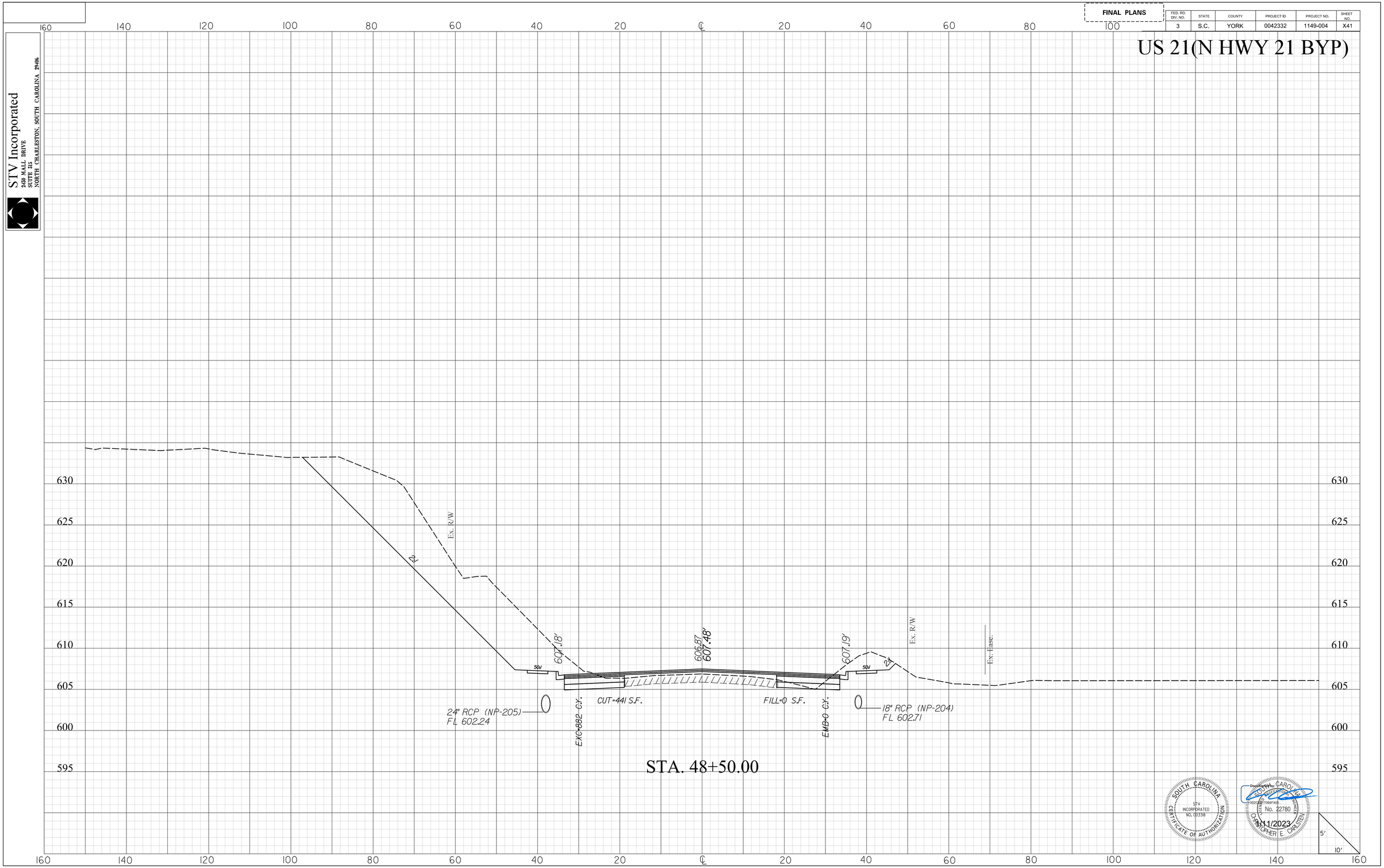
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X41

US 21(N HWY 21 BYP)



STA. 48+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
CHRISTOPHER E CARLSTEN
1/11/2023

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1/10/2023

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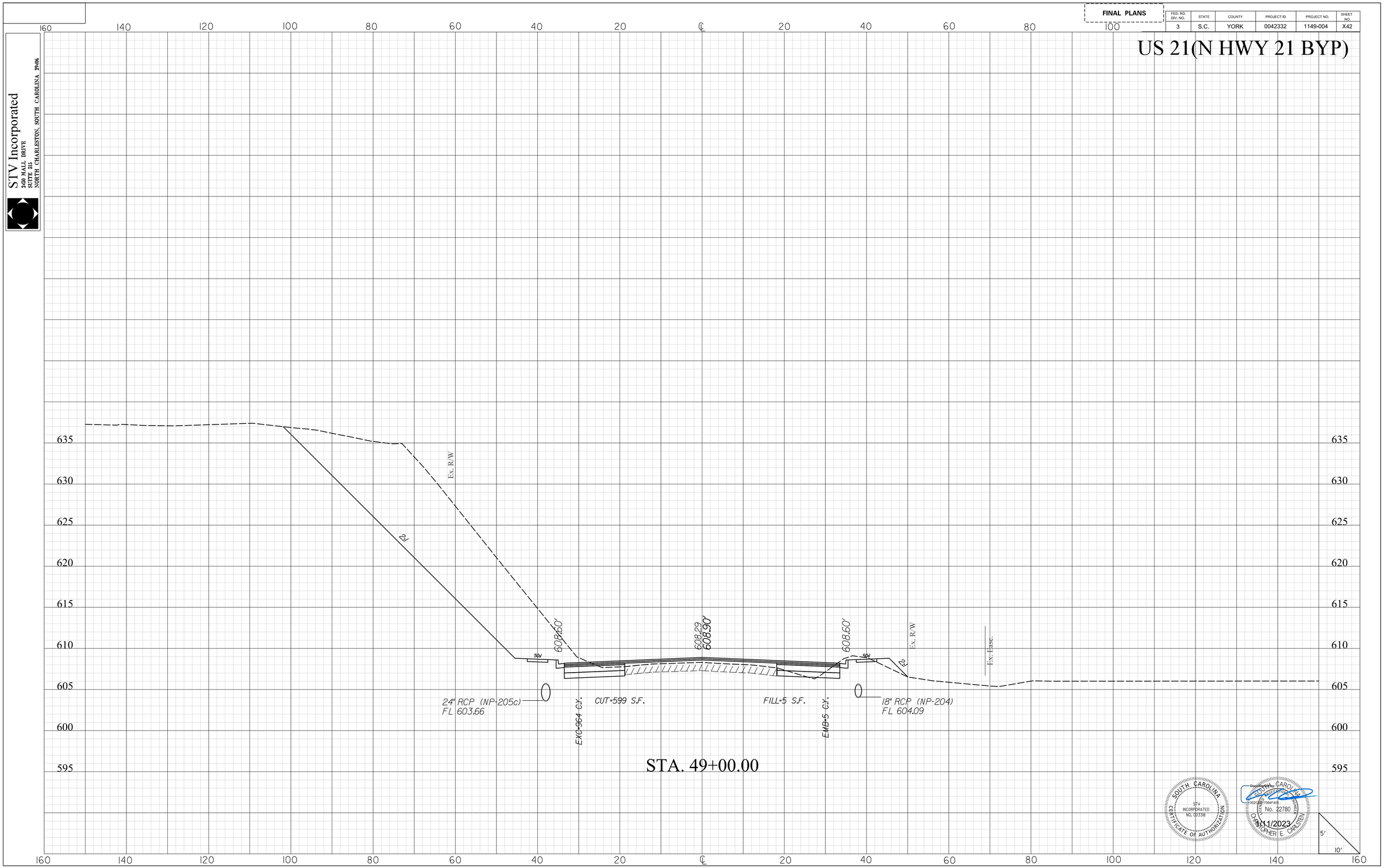
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X42

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. 000338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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1/10/2023

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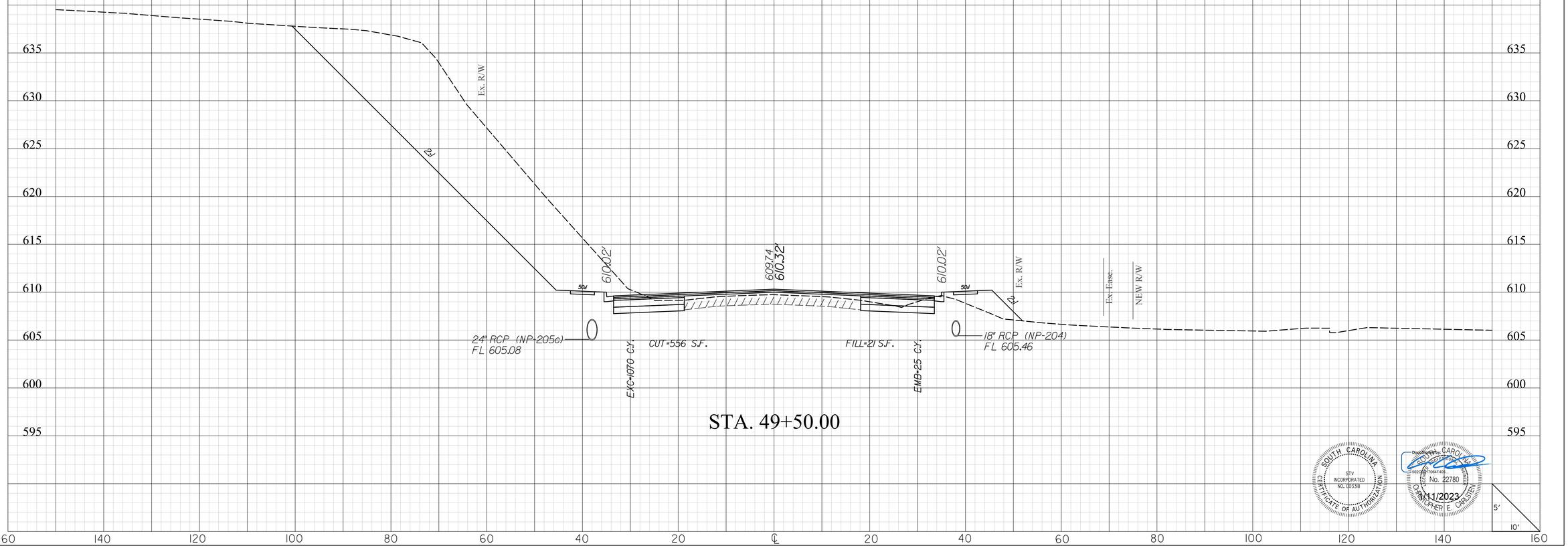
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X43

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN

1/11/2023

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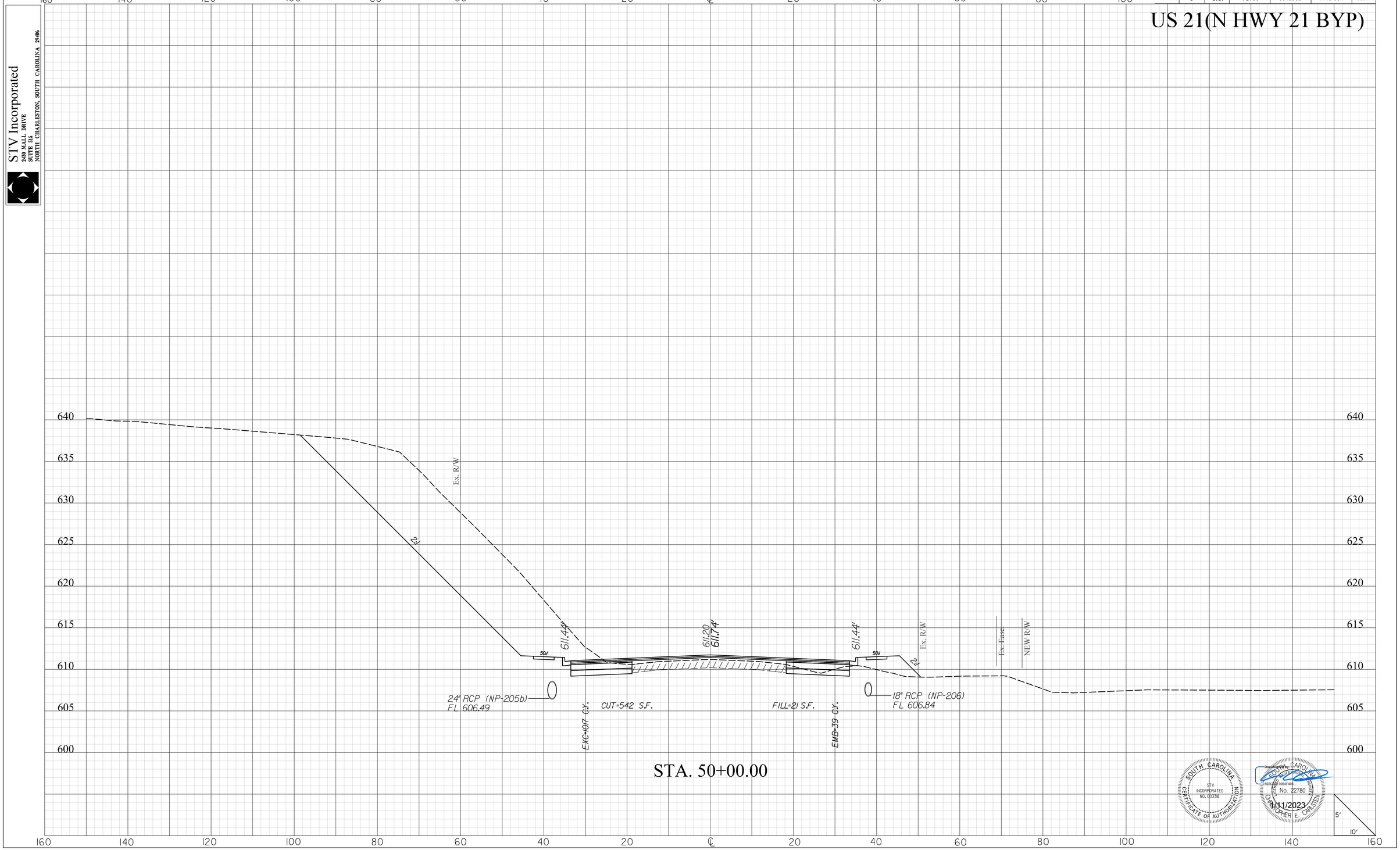
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X44

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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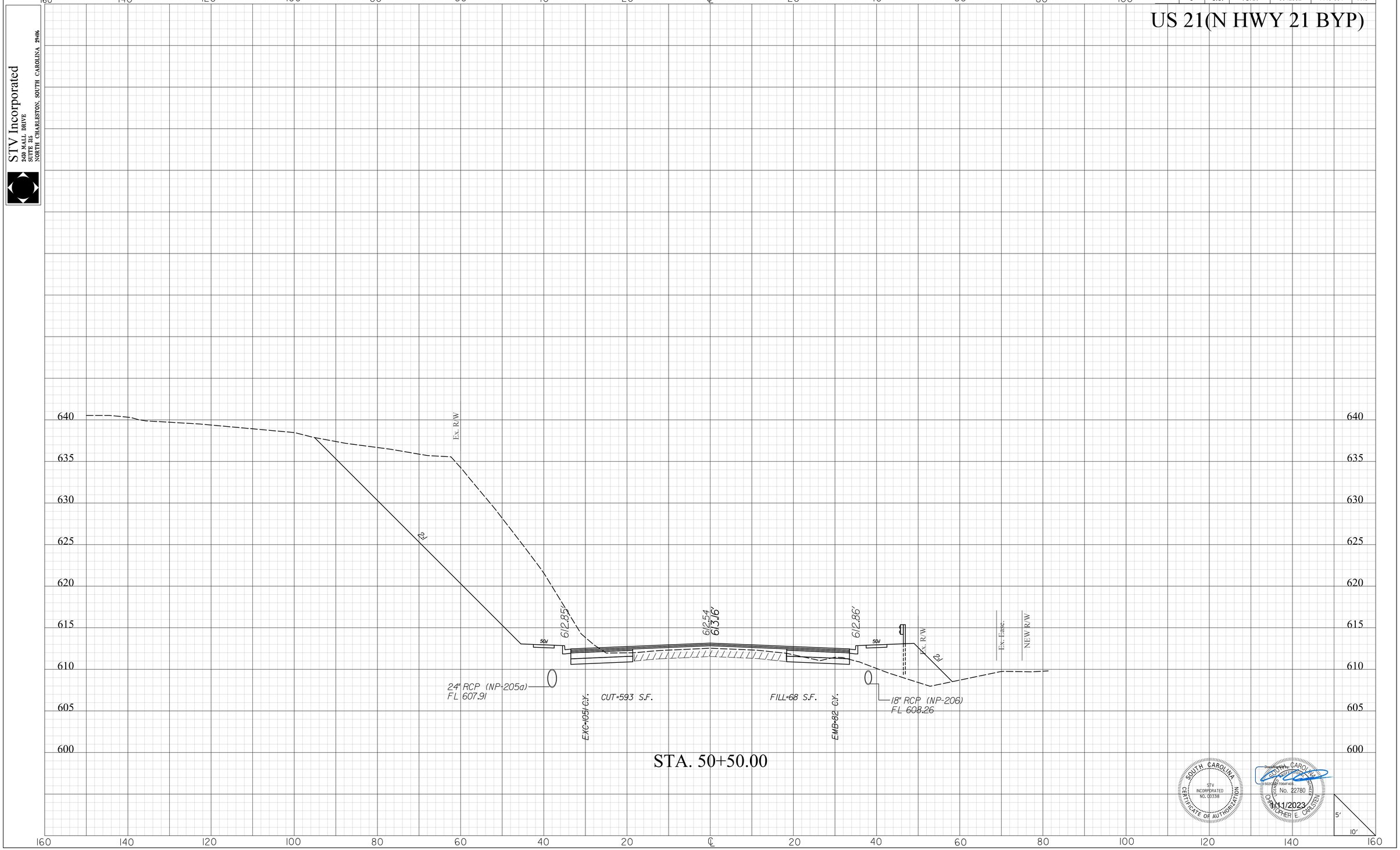
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X45

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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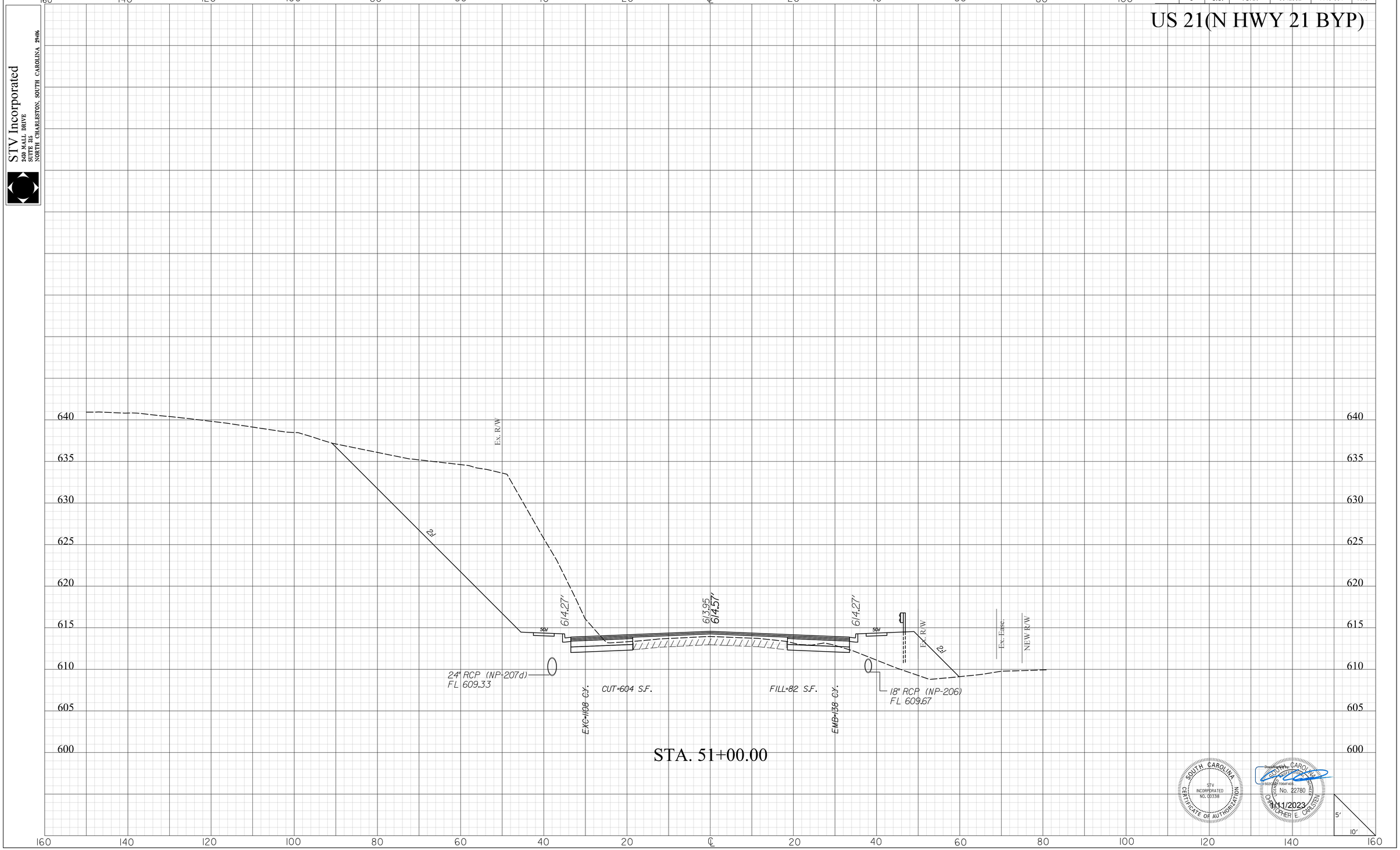
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X46

US 21(N HWY 21 BYP)

STV Incorporated
260 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E. CARLSTEN
1/11/2023

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1/10/2023

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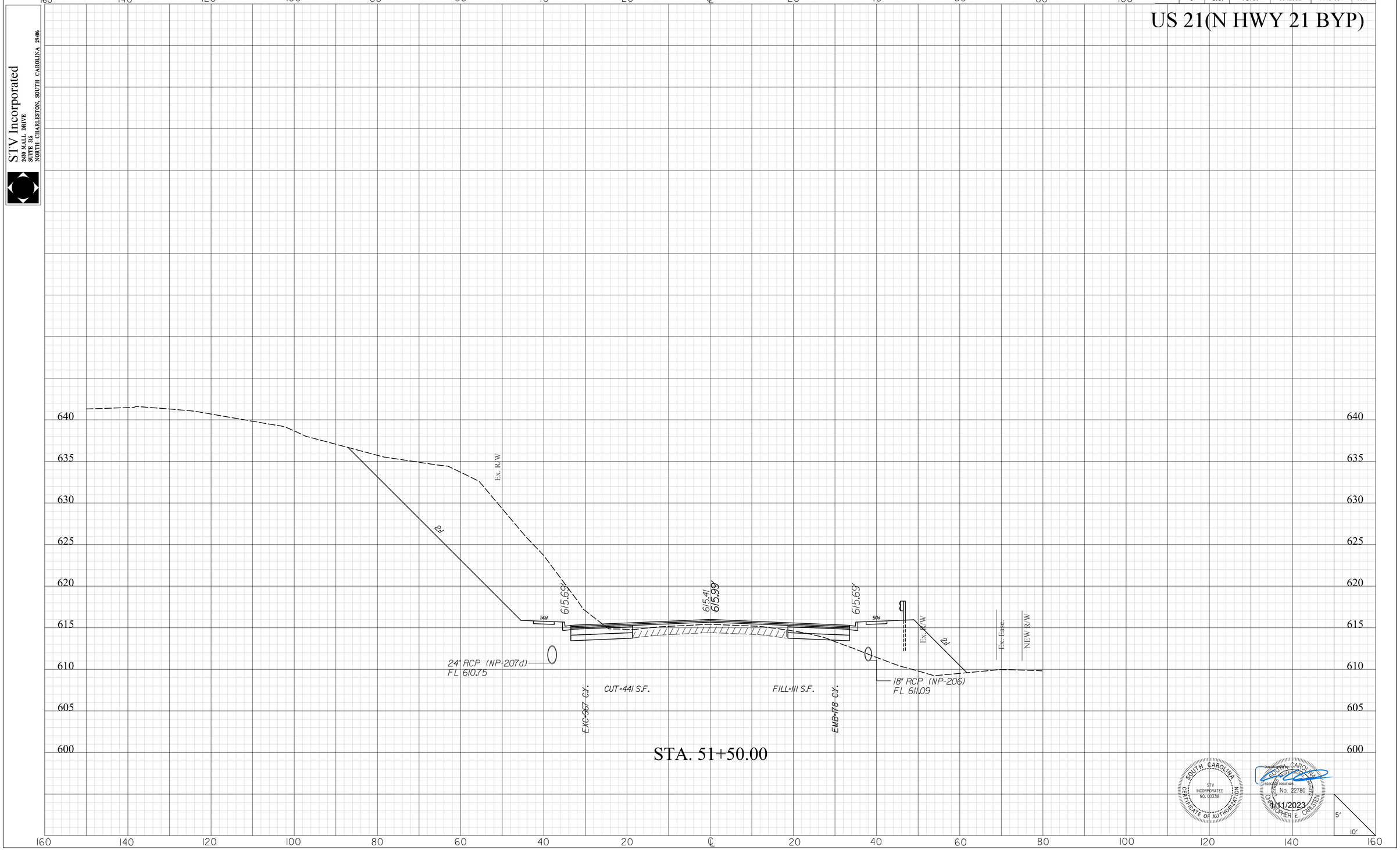
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X47

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN

1/11/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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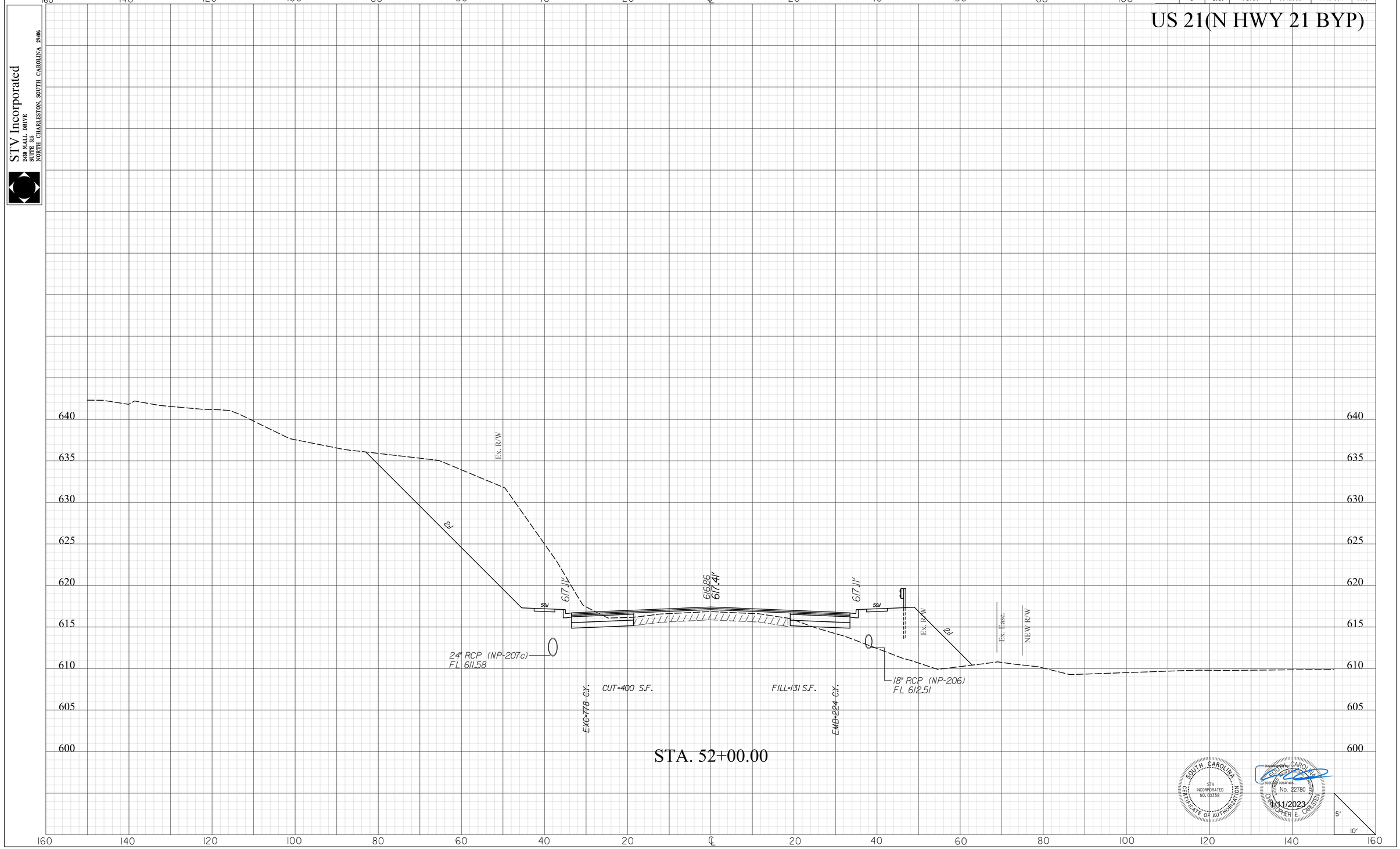
US 21(N HWY 21 BYP)



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1/10/2023

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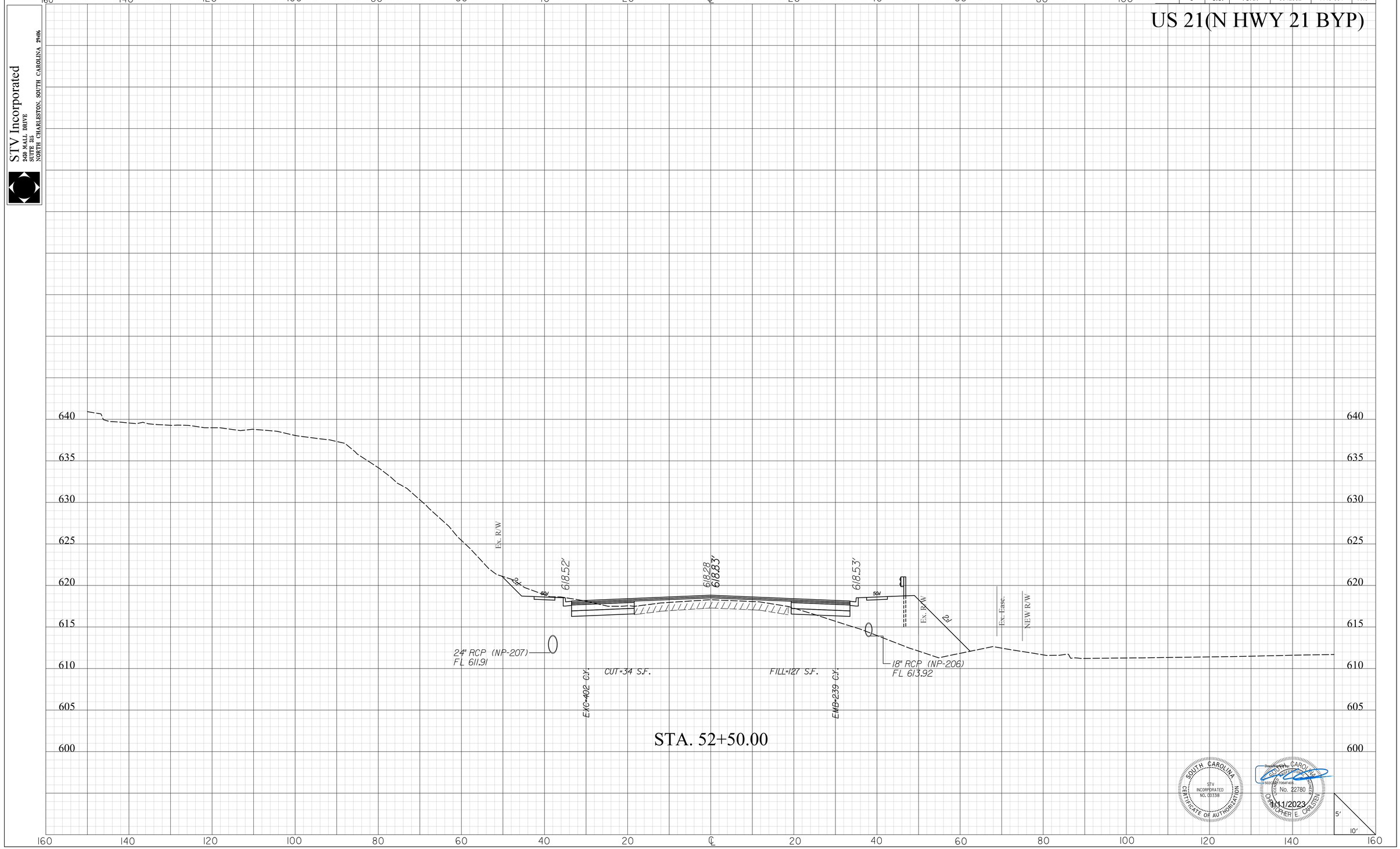
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X49

US 21(N HWY 21 BYP)

STV Incorporated
260 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARSTEN
1/11/2023

masflitg
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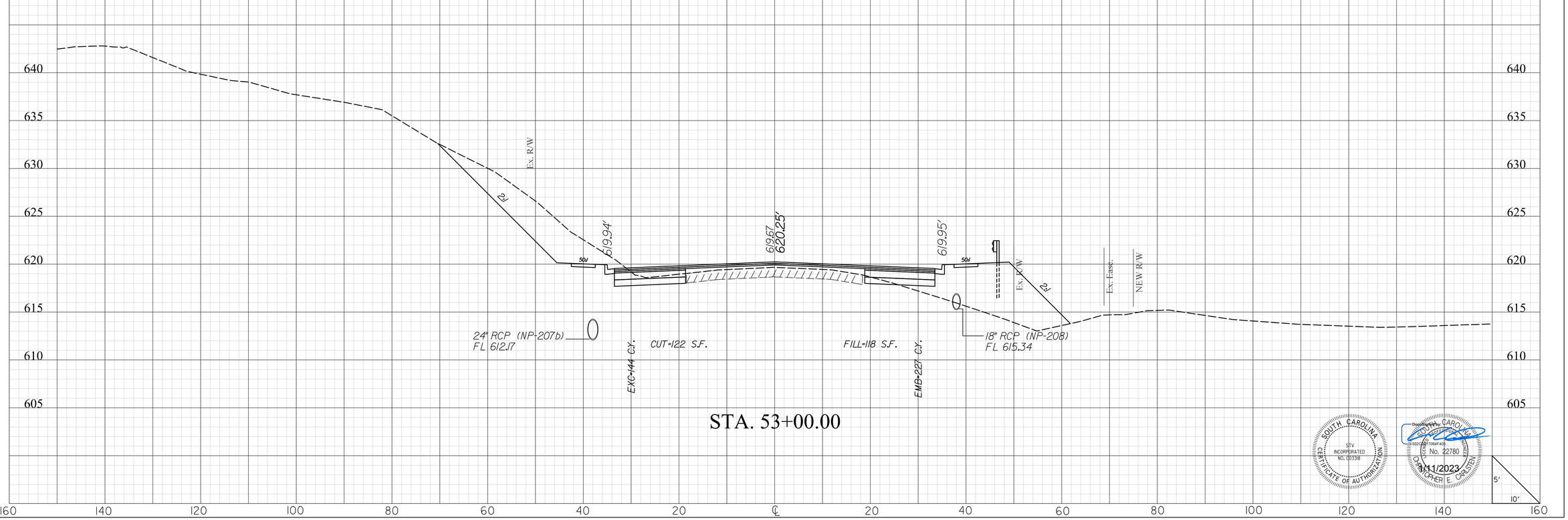
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X50

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
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REGISTERED
CHRISTOPHER E. CARSTEN
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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X51

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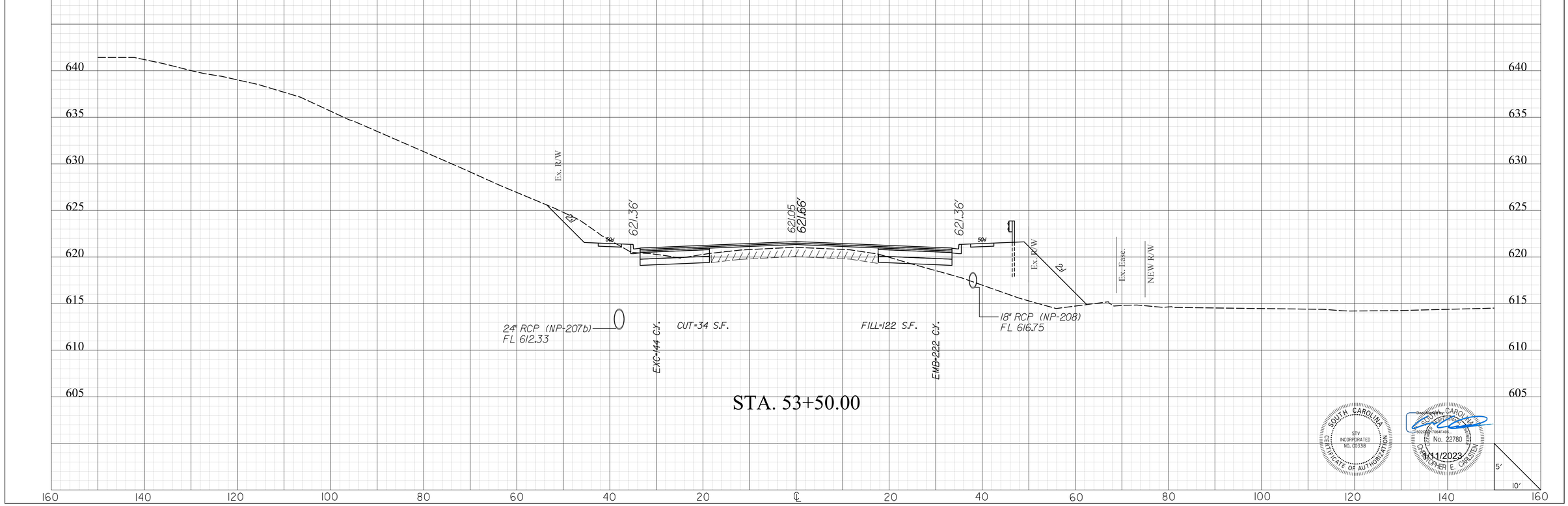

SOUTH CAROLINA
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CHRISTOPHER E CARLSTEN
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1/10/2023

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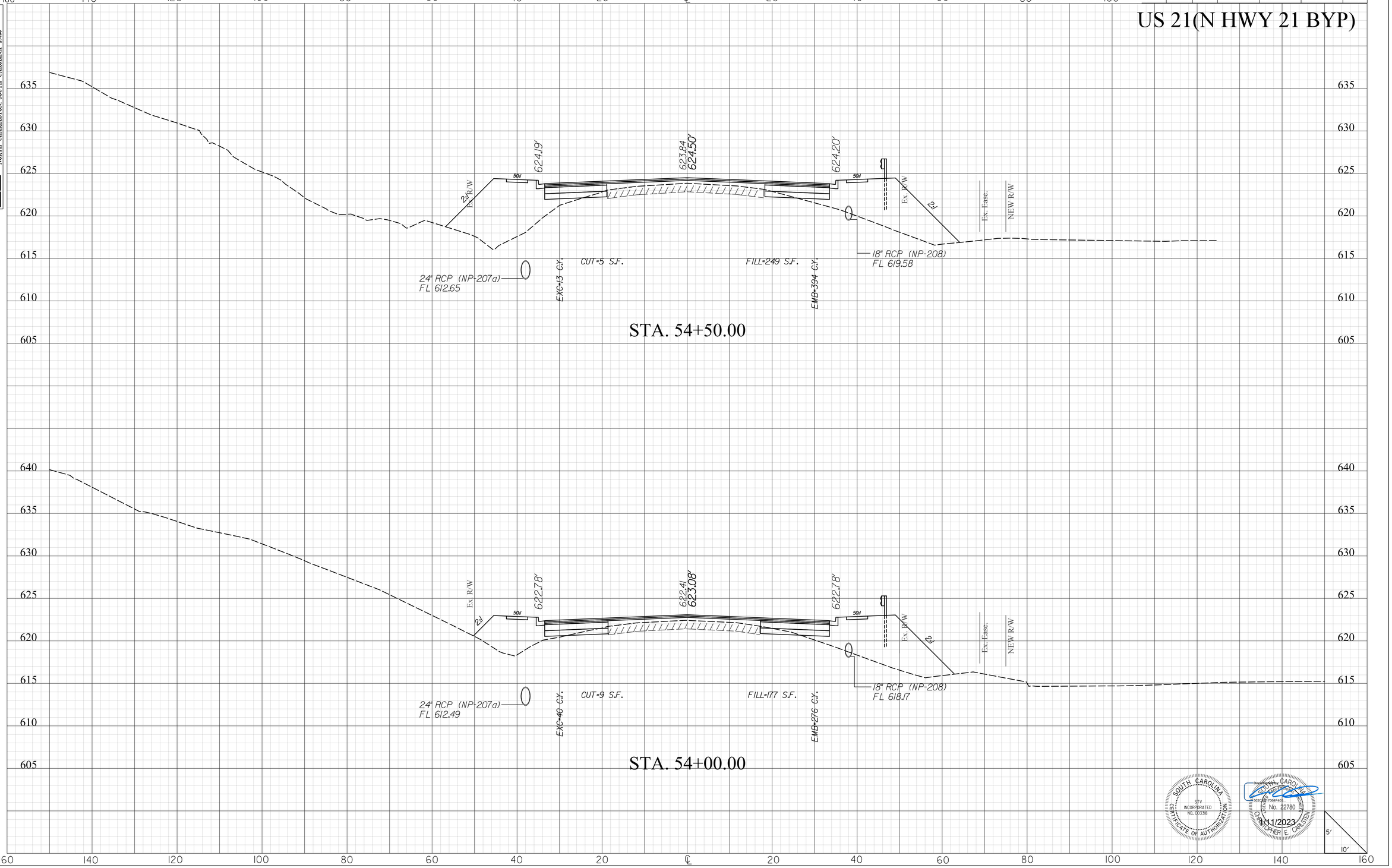
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X52

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
CHRISTOPHER E CARLSTEN
1/11/2023

masflitg
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1/10/2023

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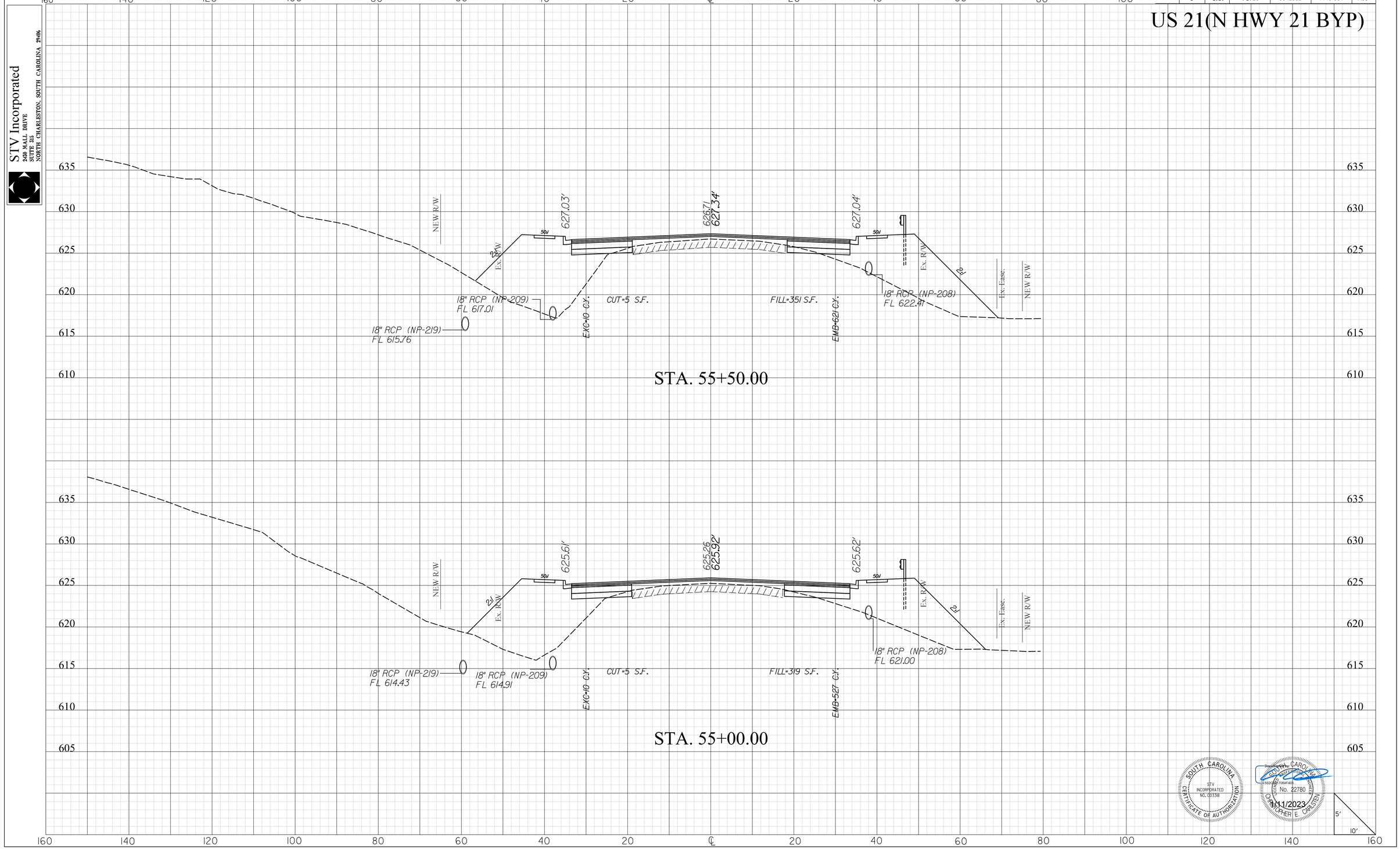
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X53

US 21(N HWY 21 BYP)



SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
No. C00338

Digitally signed by CHRISTOPHER E CARSTEN
No. 22780
1/11/2023

masflitg
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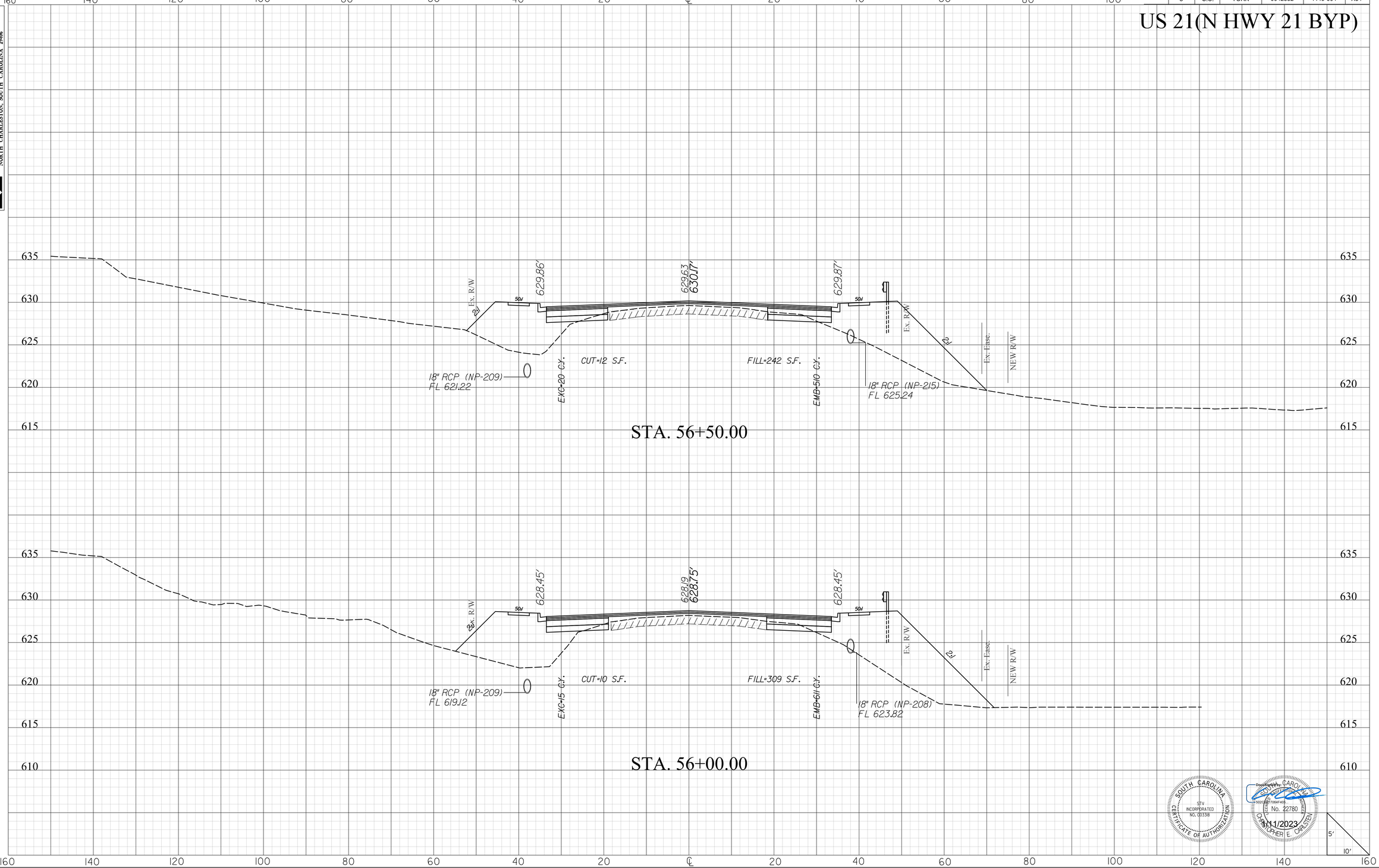
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X54

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN
1/11/2023

mastiltg
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1/10/2023

20X5.DGN

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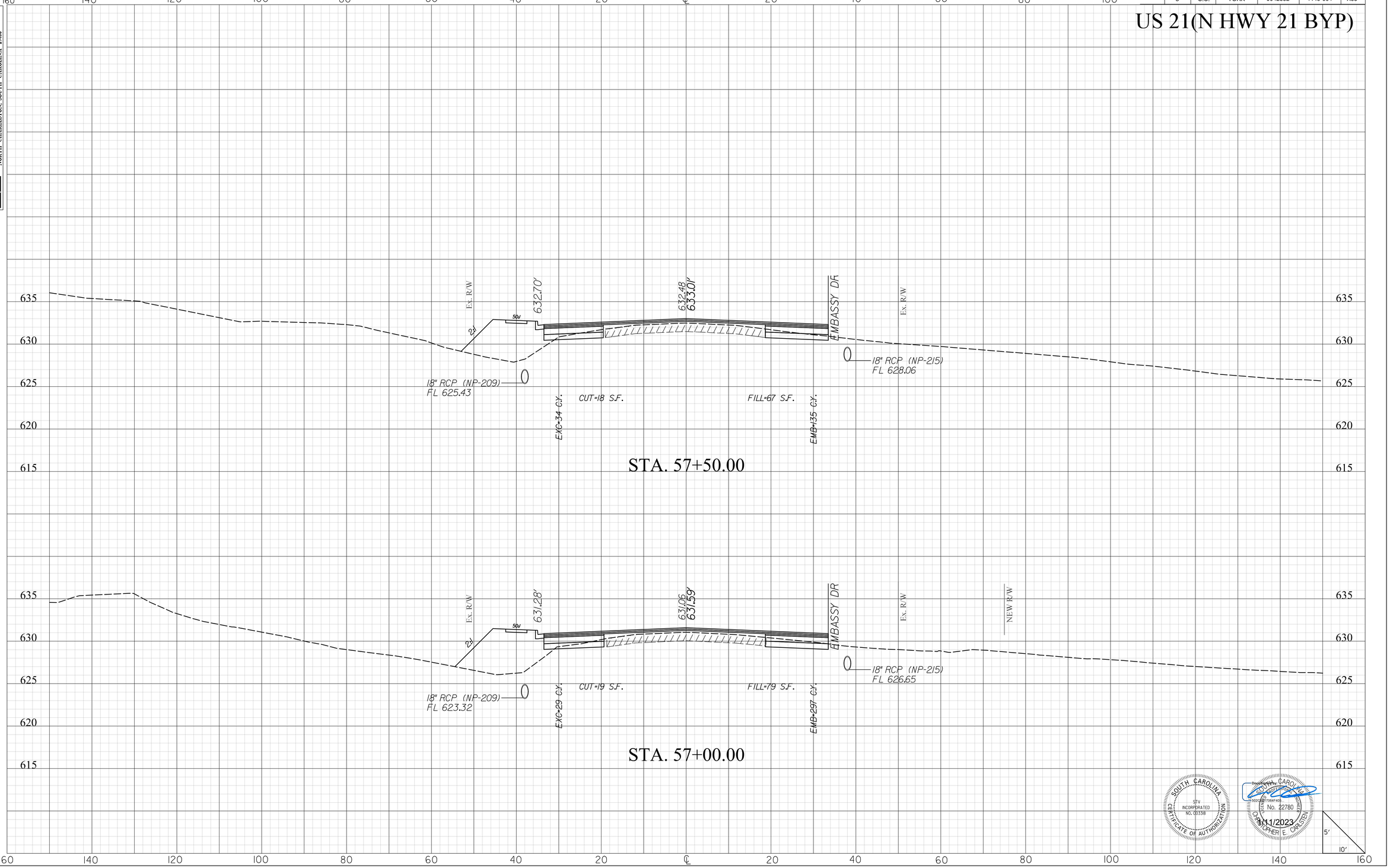
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X55

US 21(N HWY 21 BYP)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03138

Professional Engineer — SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARLSEN — 1/11/2023

mastltg
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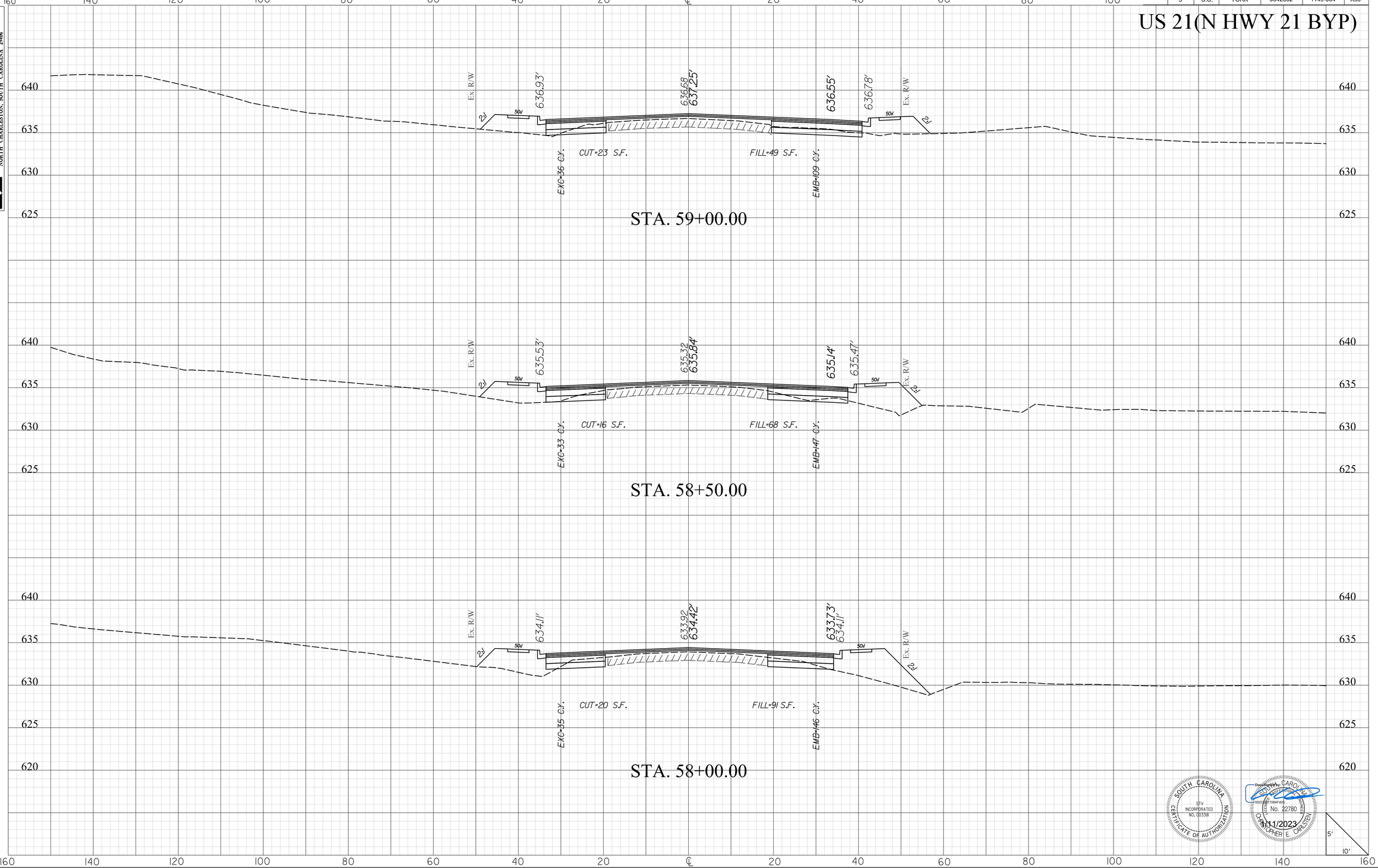
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X56

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Docu Sign Envelope ID: 5D2C3A8F7D64F4C6
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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1/10/2023

20X5.DGN

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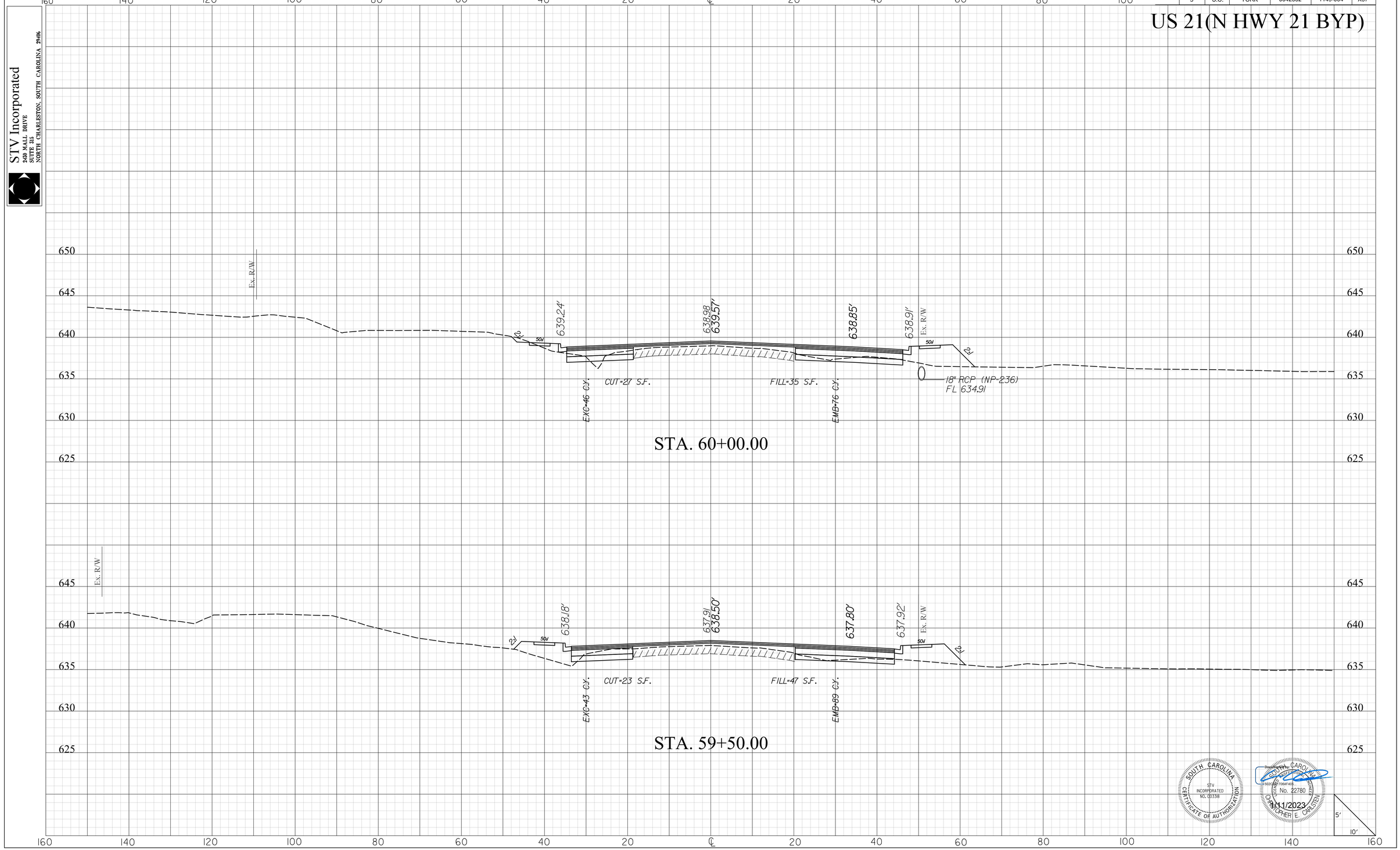
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X57

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION
NO. C03388

Digitally signed by CHRISTOPHER E. CARLSON
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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1/10/2023

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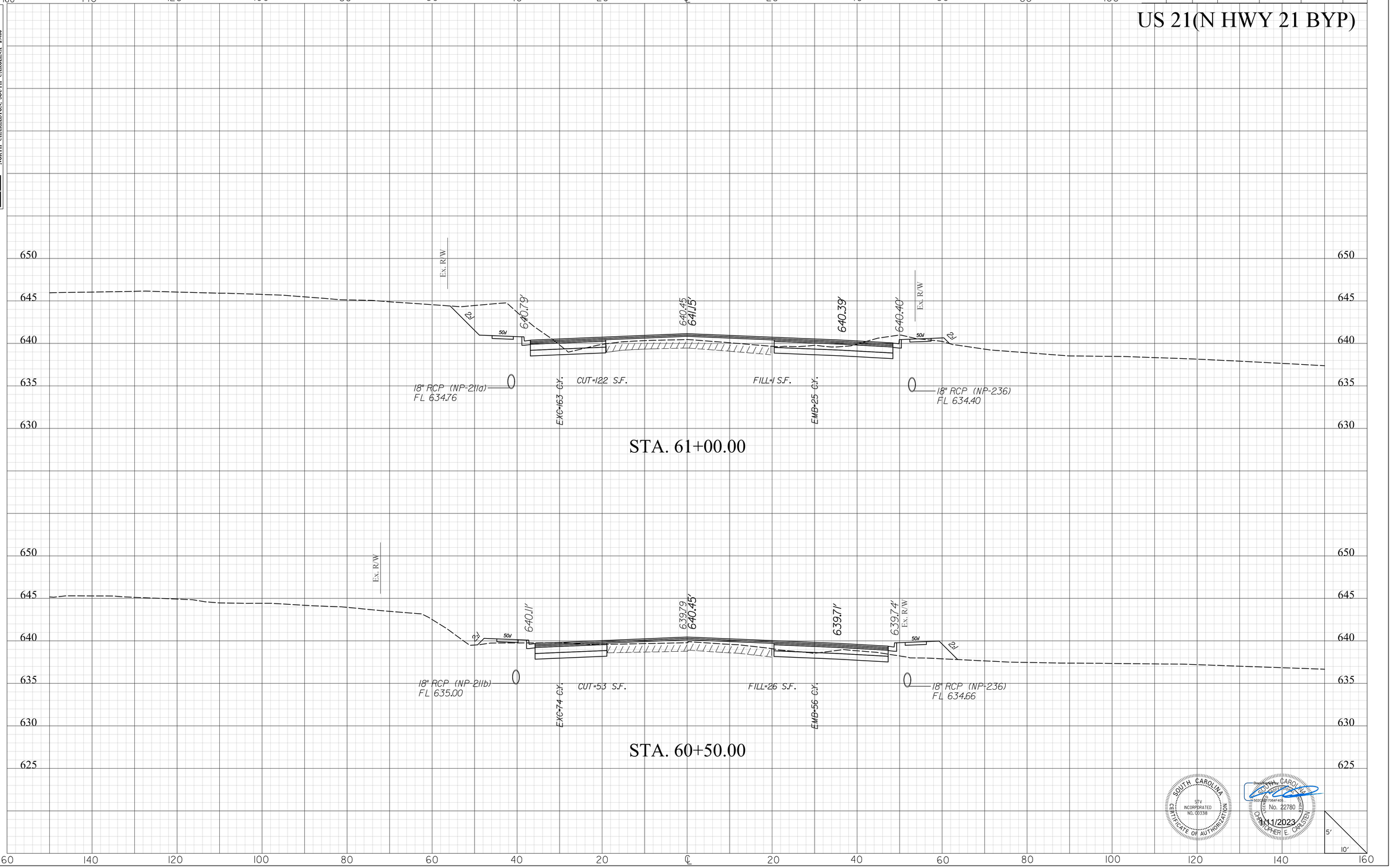
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X58

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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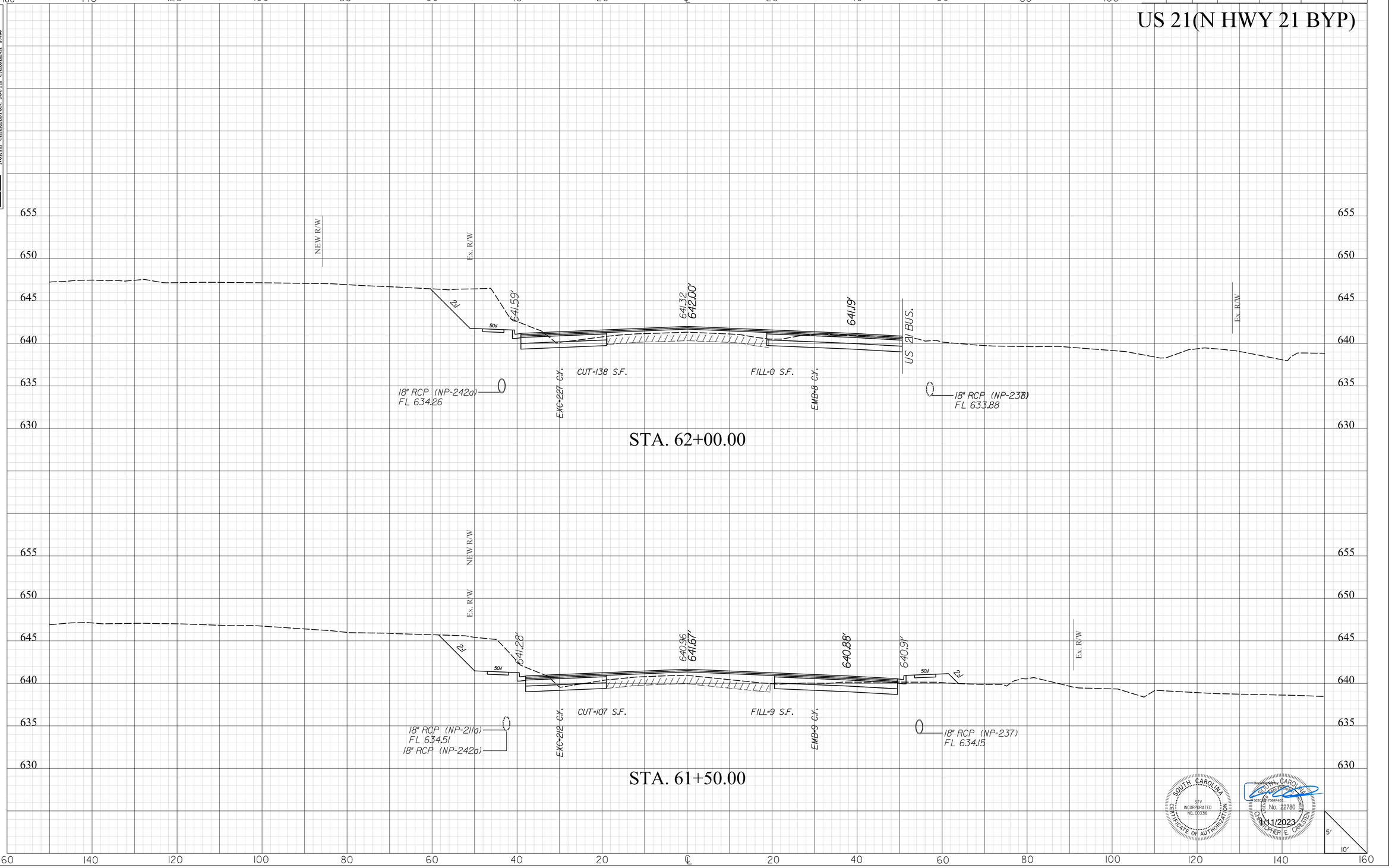
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X59

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X60

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100

650 645 640 635 630

Ex. R/W

S-1726 (GOLD HILL RD)

641.50
642.11'

641.30'

Ex. R/W

US 21 BUS.

18" RCP (NP-240)
FL 633.75

EXC-122 C.Y.

CUT-64 S.F.

FILL-0 S.F.

EMB-0 C.Y.

STA. 63+00.00

Ex. R/W

S-1726 (GOLD HILL RD)

641.52
642.14'

641.33'

US 21 BUS.

Ex. R/W

18" RCP (NP-242)
FL 635.15

18" RCP (NP-240)
FL 634.00

EXC-190 C.Y.

CUT-68 S.F.

FILL-0 S.F.

EMB-0 C.Y.

18" RCP (NP-238)
FL 633.59

STA. 62+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C03381
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARSTENS
No. 22780
1/11/2023

5' 10'

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

masttlg
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1/10/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X61

US 21(N HWY 21 BYP)

STA. 64+00.00

NEW R/W
Ex. R/W
S-1726 (GOLD HILL RD)
640.66'
640.92
641.48'
US 21 BUS.
Ex. R/W
NEW R/W
18" RCP (NP-526)
FL 635.73
18" RCP (NP-240)
FL 633.25
EXC-127 C.Y.
CUT-66 S.F.
FILL-47 S.F.
EMB-44 C.Y.

STA. 63+50.00

Ex. R/W
S-1726 (GOLD HILL RD)
641.06'
641.31
641.89'
US 21 BUS.
Ex. R/W
18" RCP (NP-240)
FL 633.50
EXC-125 C.Y.
CUT-71 S.F.
FILL-0 S.F.
EMB-0 C.Y.

650 645 640 635 630

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

5'
10'

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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1/10/2023

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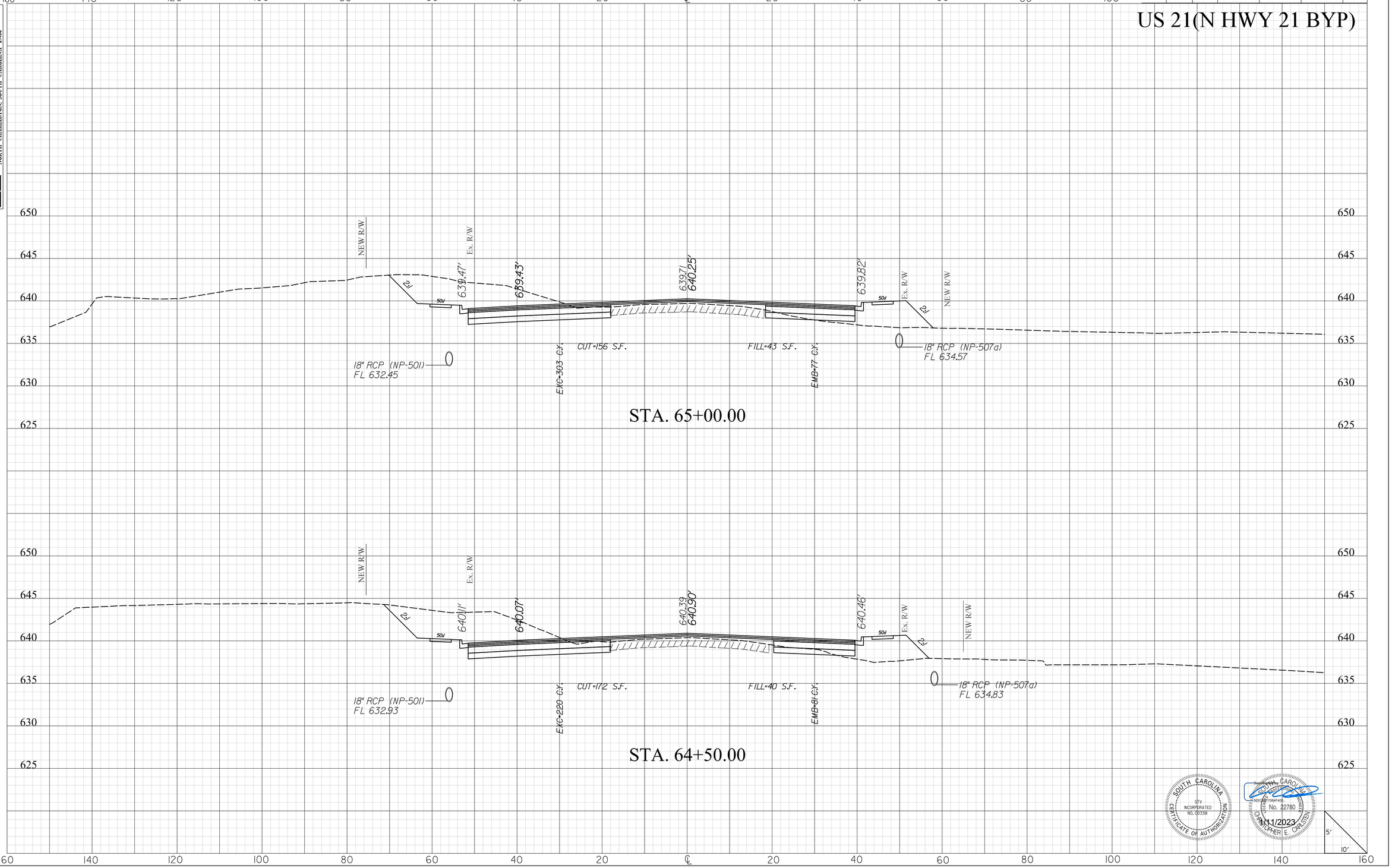
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X62

US 21(N HWY 21 BYP)

STA. 65+00.00



STA. 64+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARSTEN
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

5'
10'

masttlg
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1/10/2023

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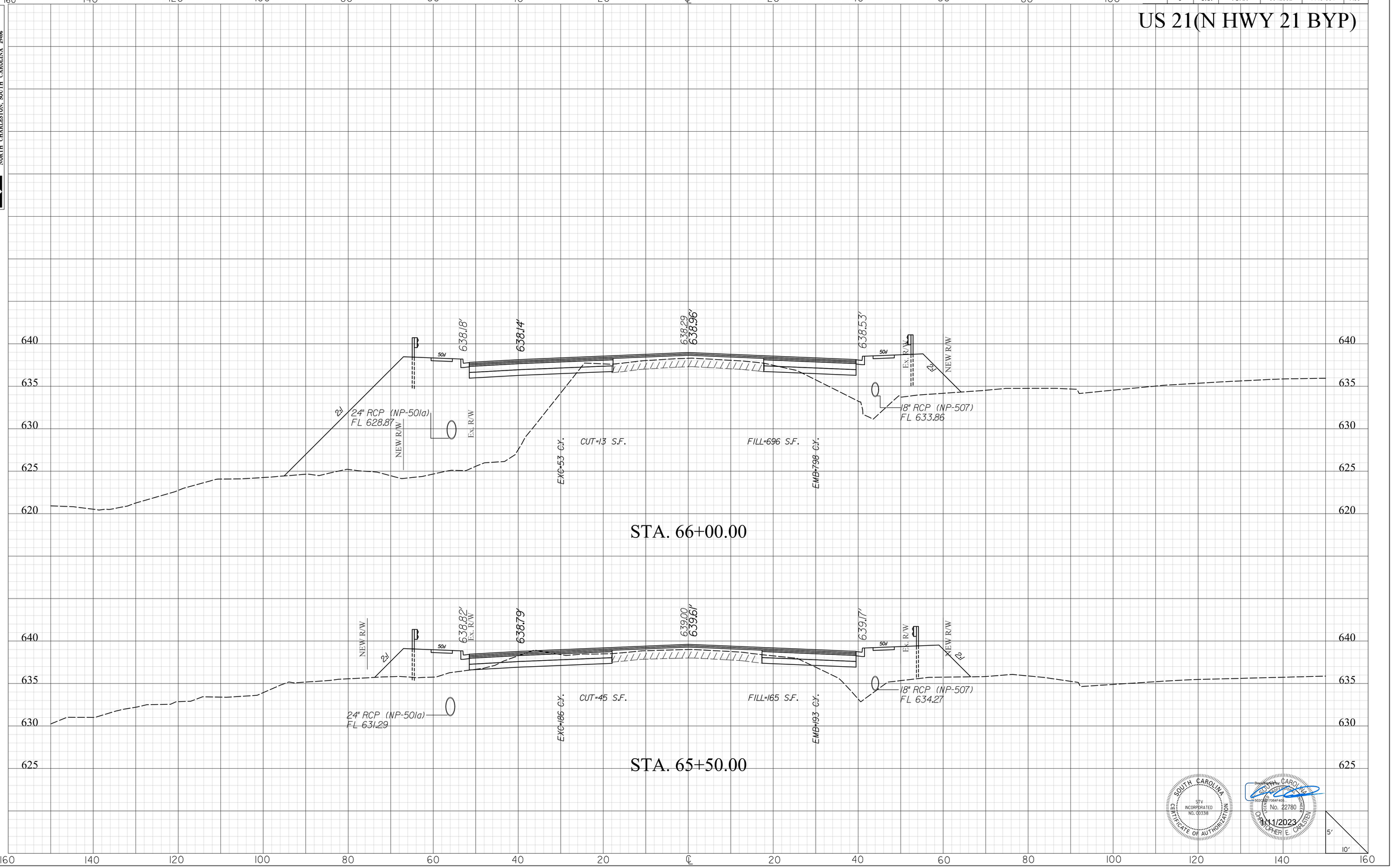
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X63

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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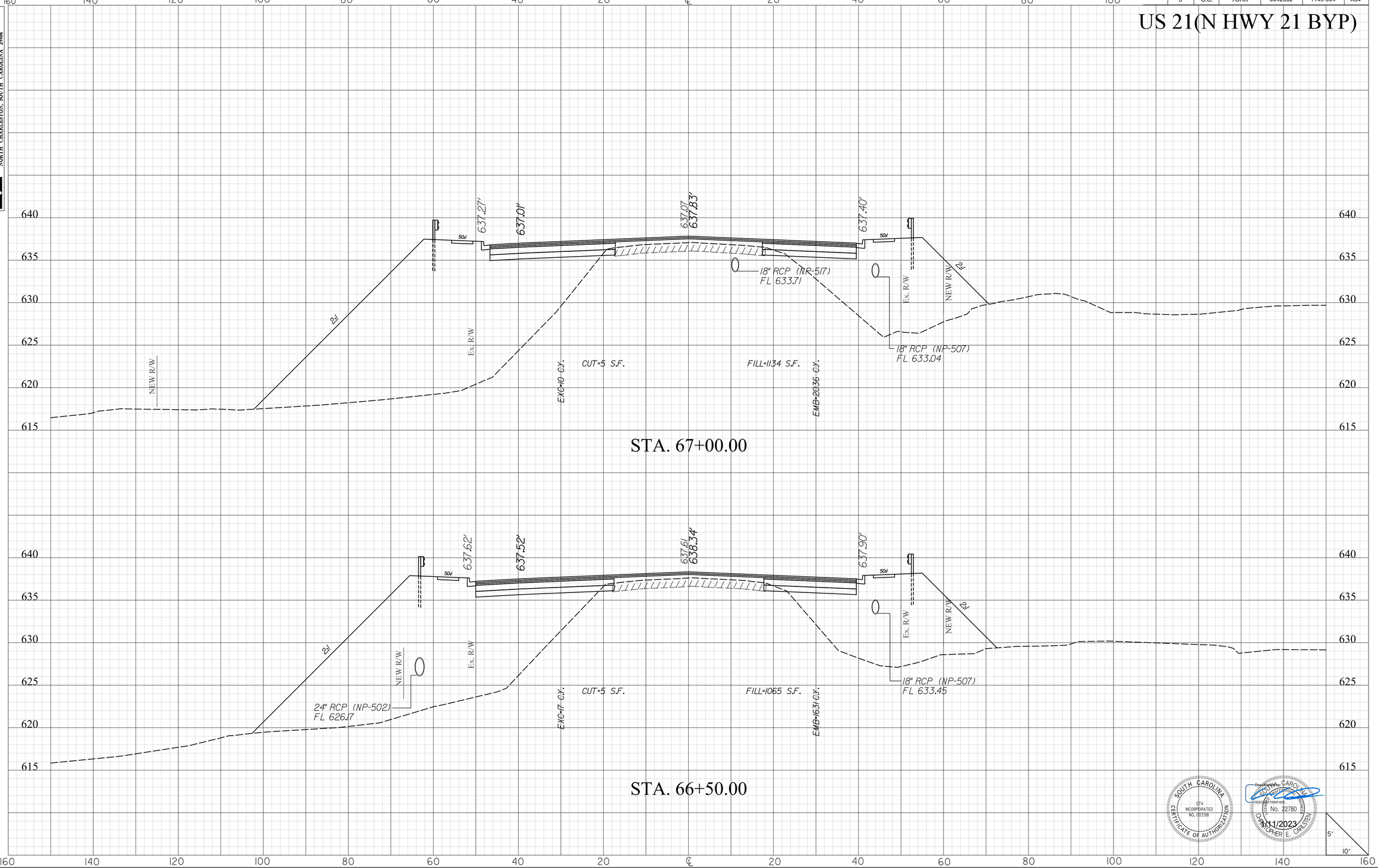
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X64

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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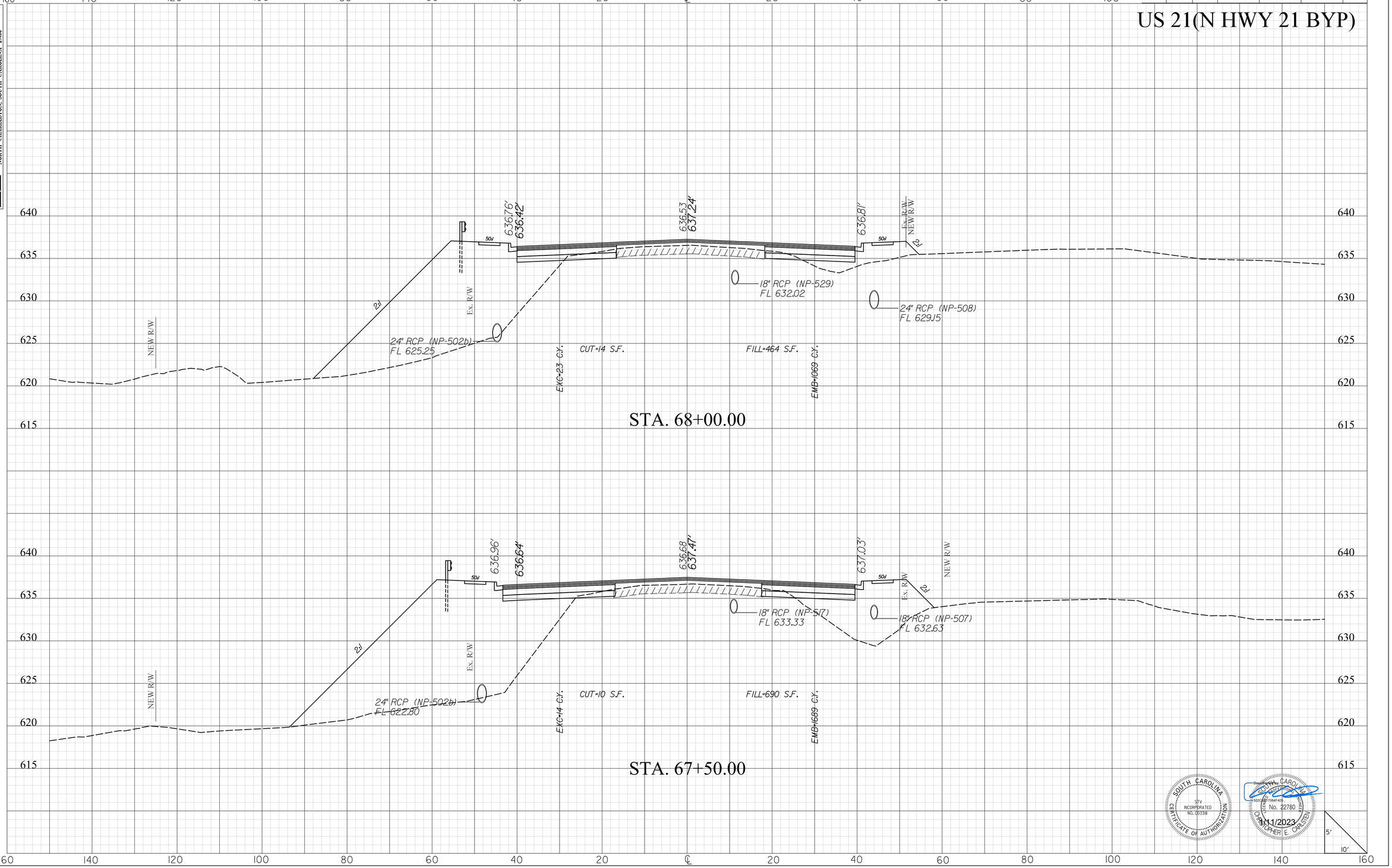
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X65

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN
1/11/2023

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1/10/2023

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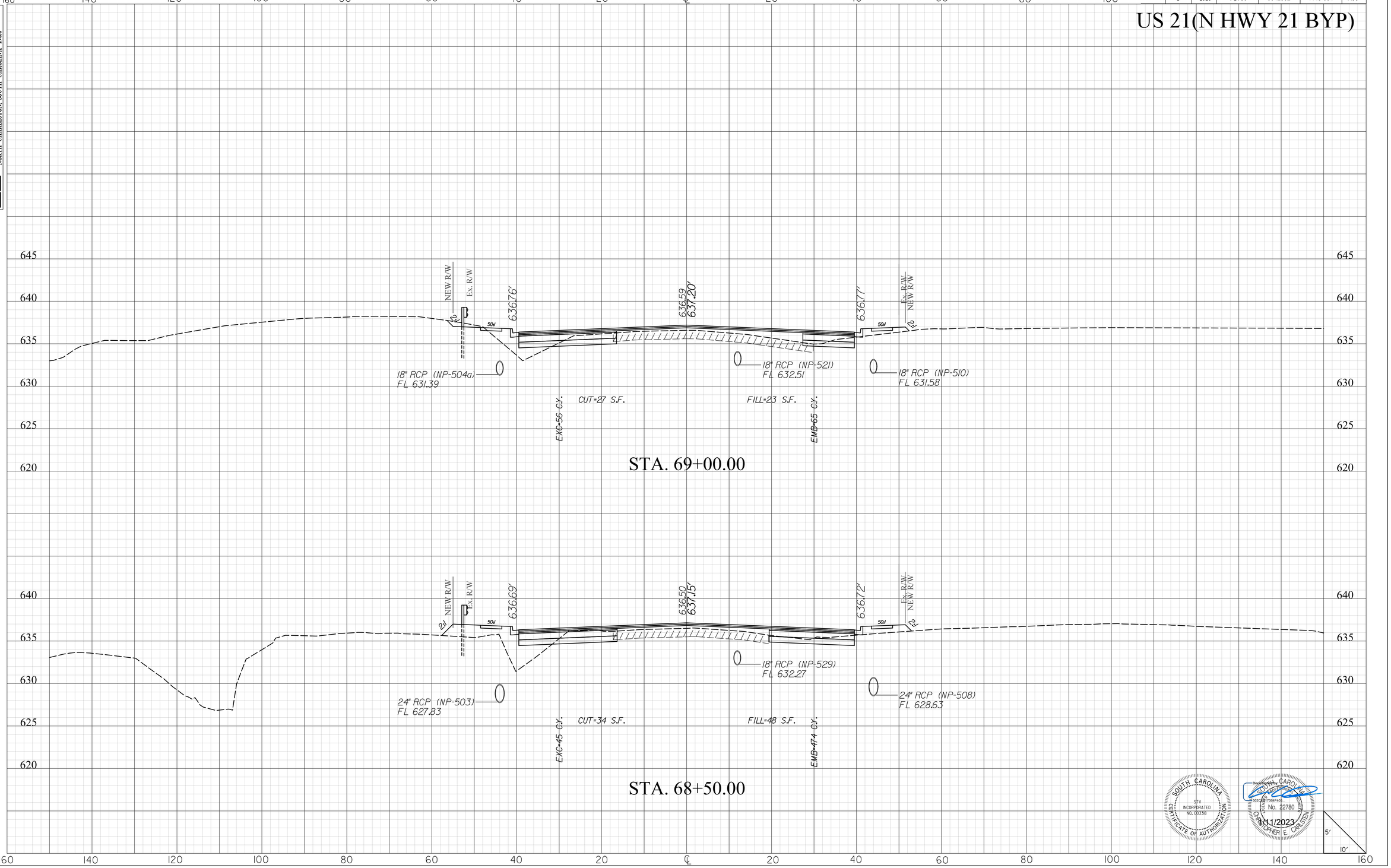
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X66

US 21(N HWY 21 BYP)



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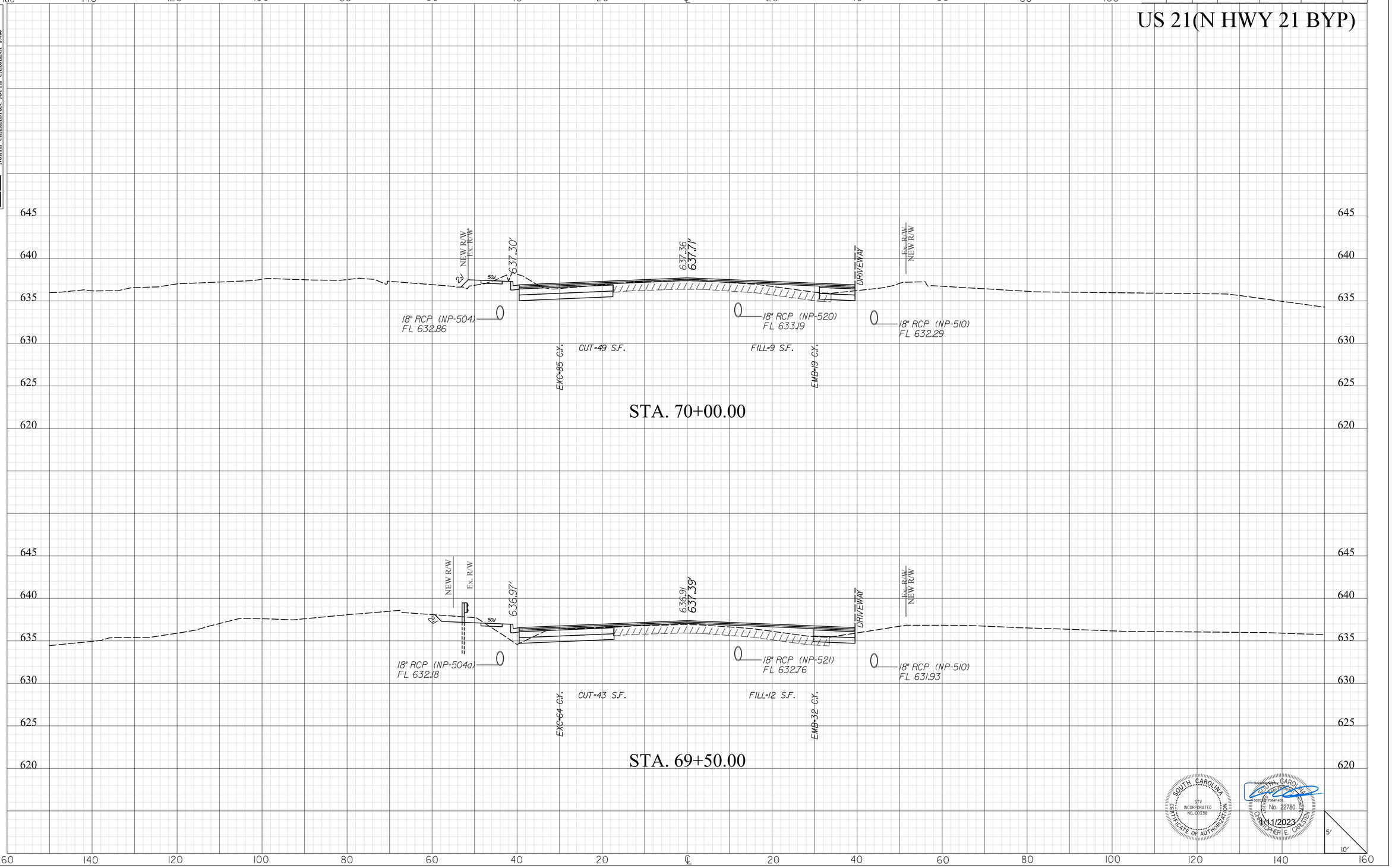
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X67

US 21(N HWY 21 BYP)



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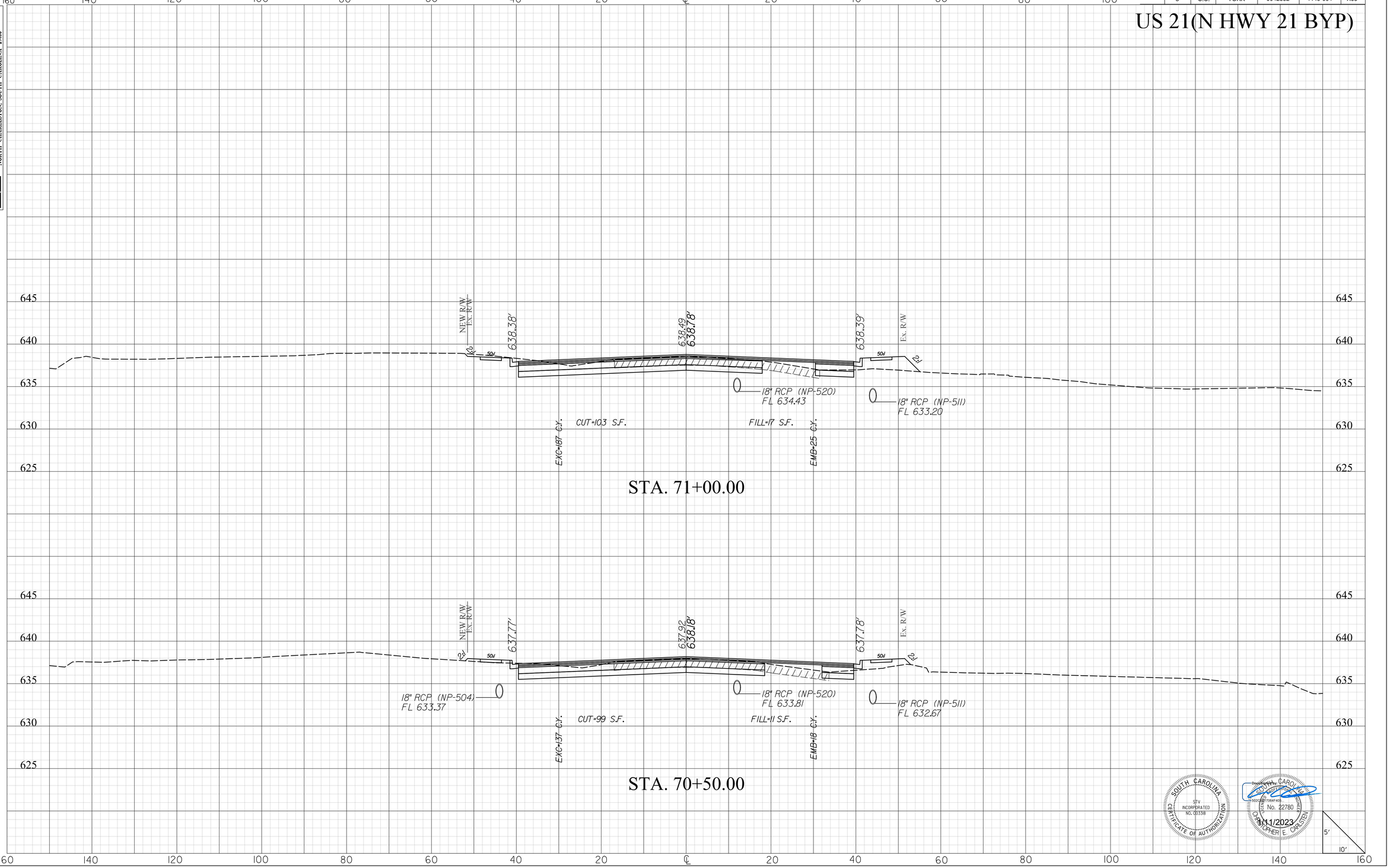
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X68

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA
DocuSign Envelope ID: 5027C8B7D64F409...
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
I:\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US21_XPL.dgn
1/10/2023

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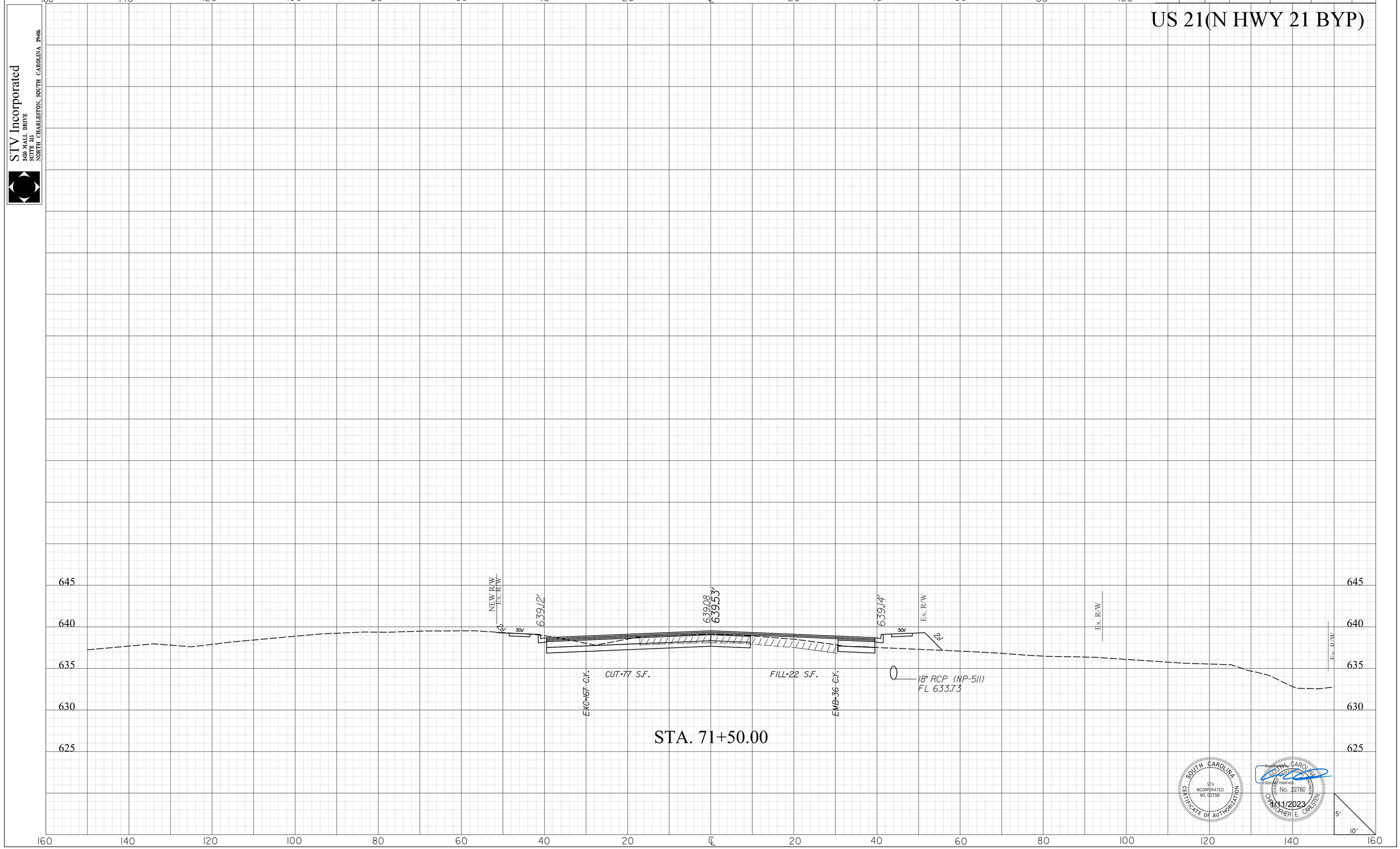
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X69

US 21(N HWY 21 BYP)



STA. 71+50.00

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C00338

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

masflitg
I:\Projects\2515776\2515776_000\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US2l_XPL.dgn
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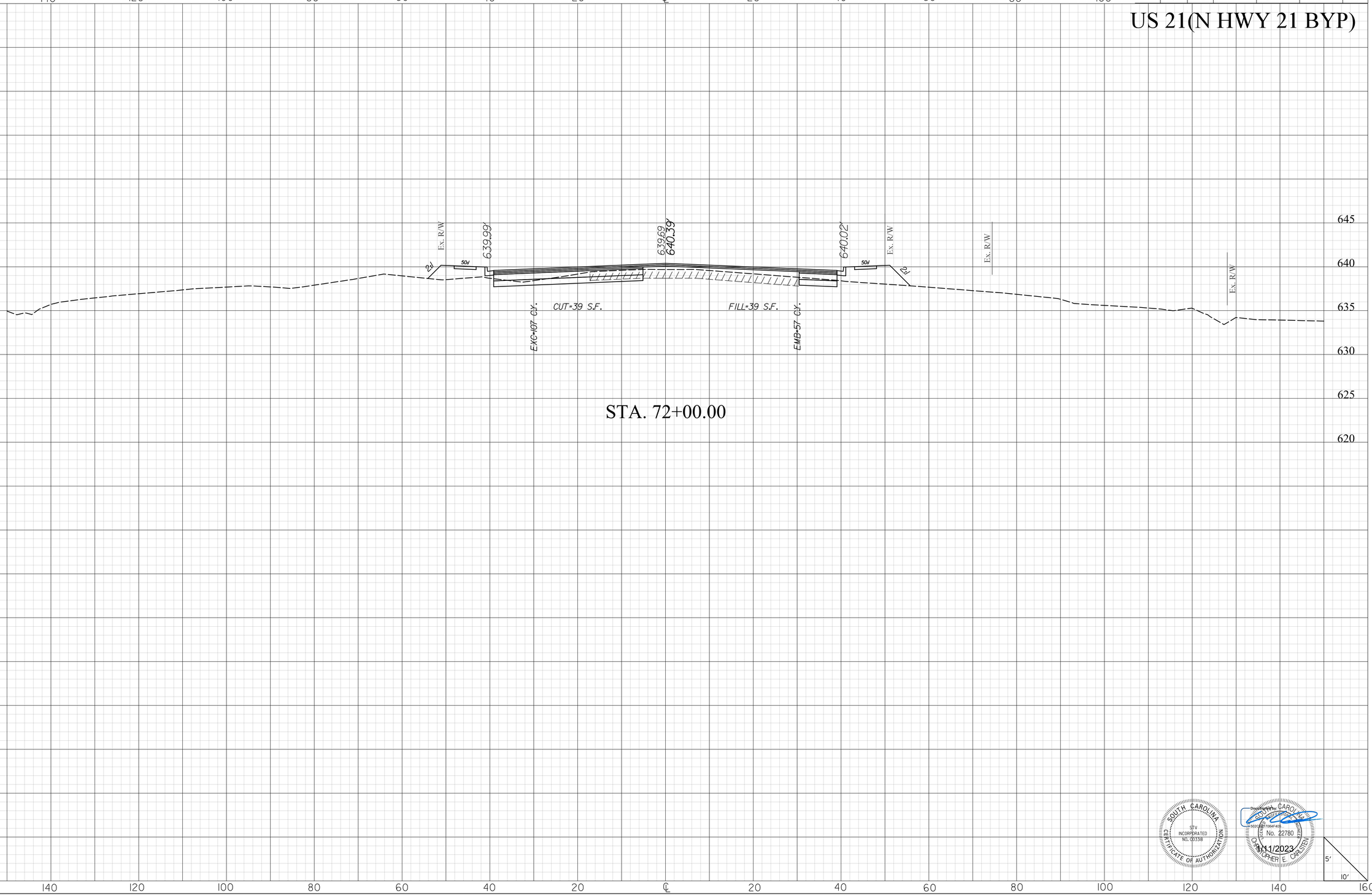
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X70

US 21(N HWY 21 BYP)



STA. 72+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

5'
10'

masttlg
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1/10/2023

20XS.DGN

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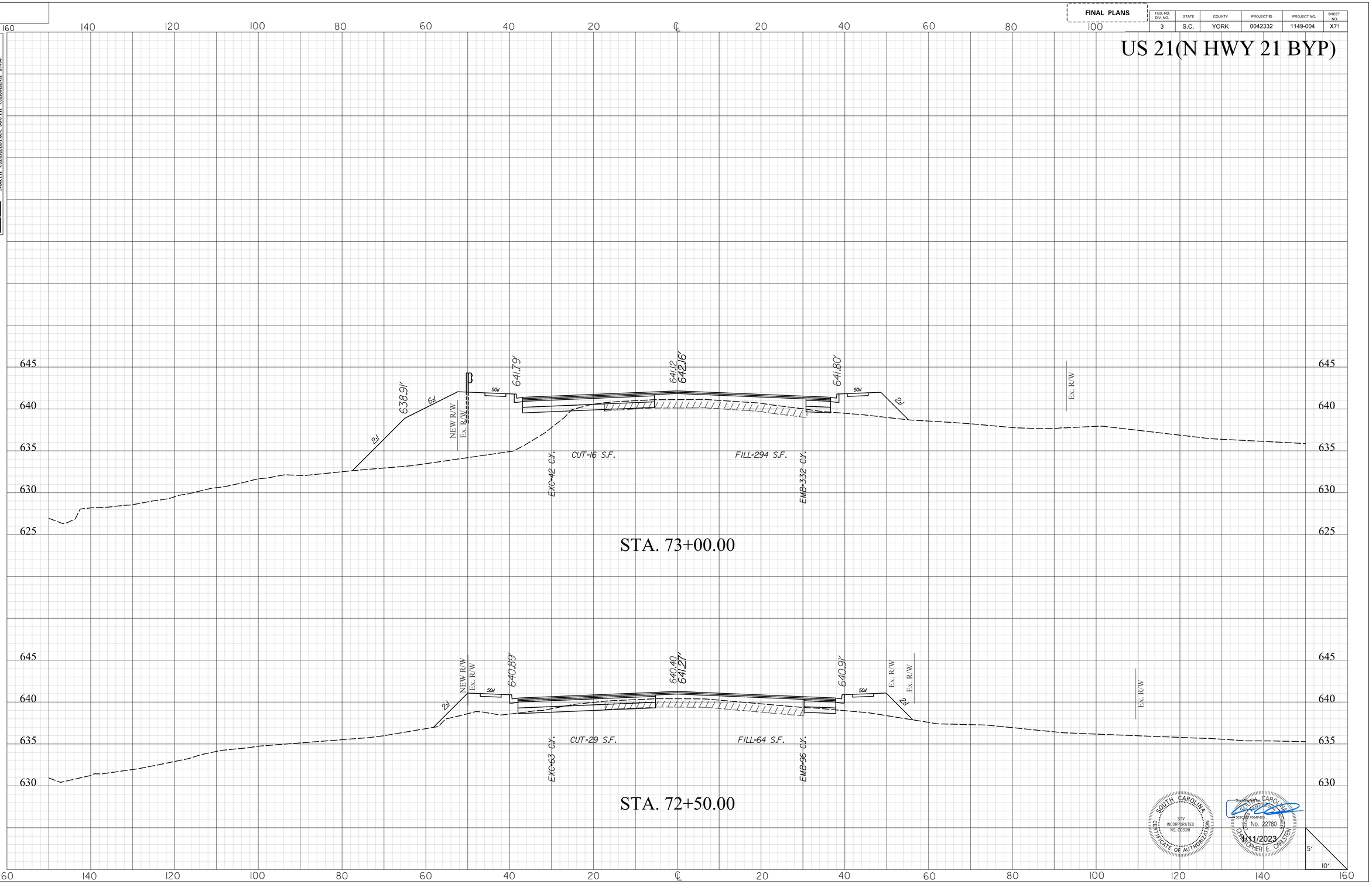
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X71

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Christopher E. Carlton
No. 22780
REGISTERED PROFESSIONAL ENGINEER
4/11/2023

mastiltg
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1/10/2023

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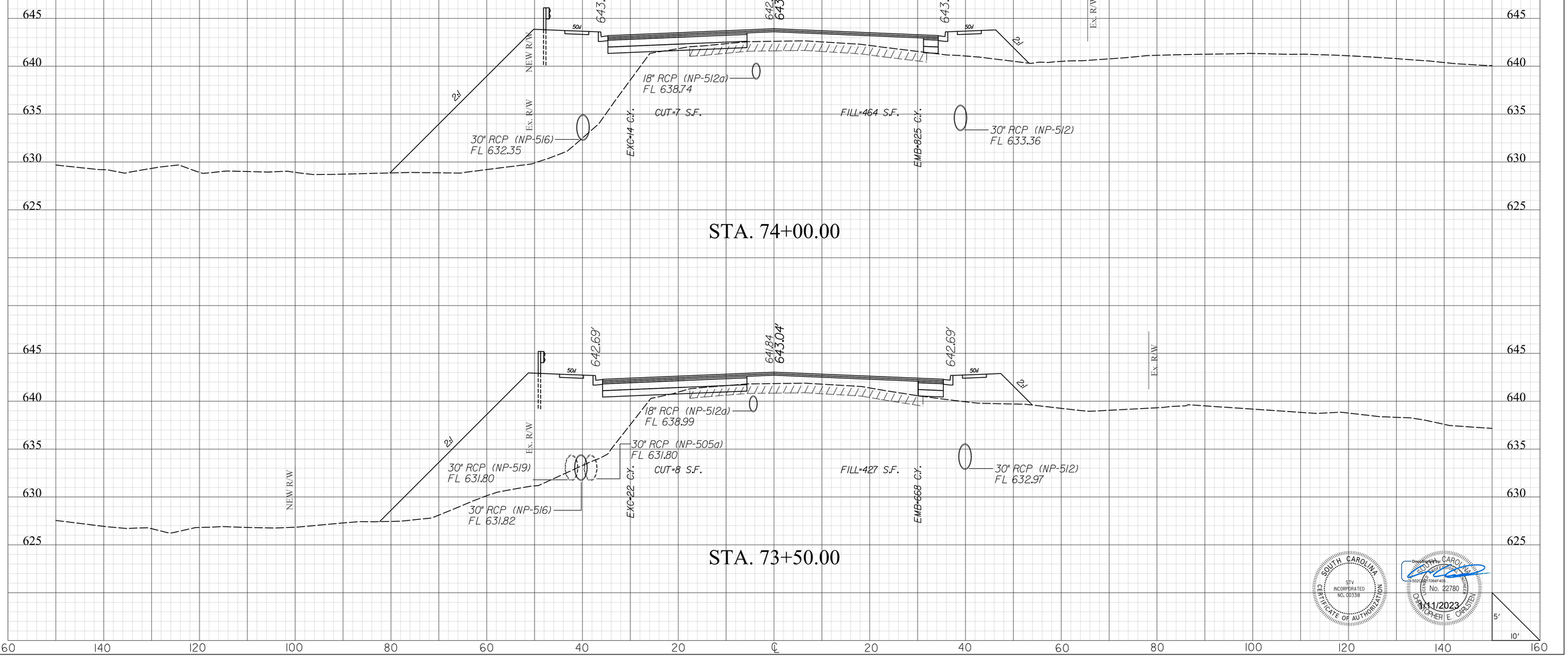
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X72

US 21(N HWY 21 BYP)

STA. 74+00.00



STA. 73+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

5'
10'

masflitg
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1/10/2023

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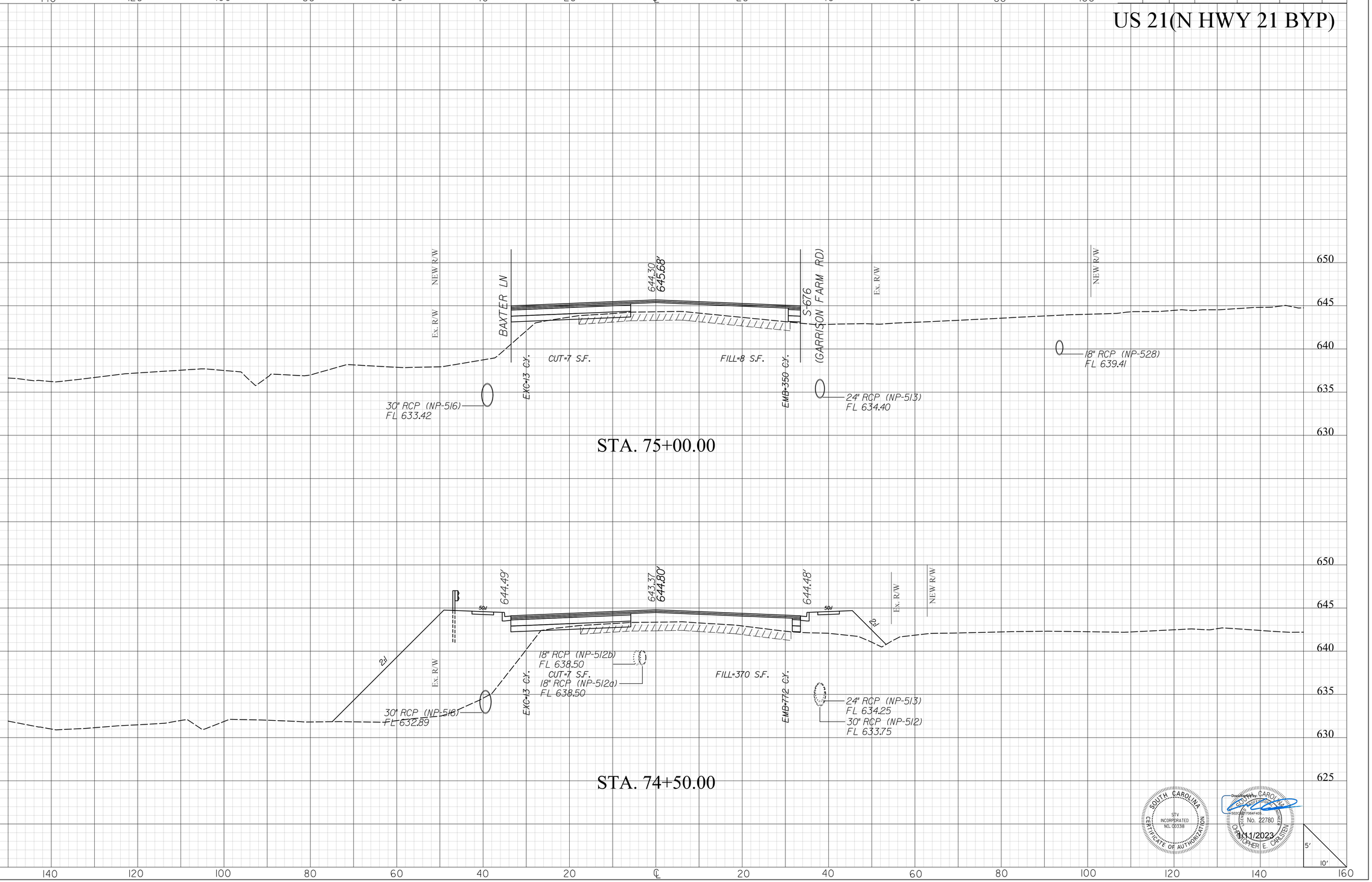
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X73

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTEN

1/11/2023

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1/10/2023

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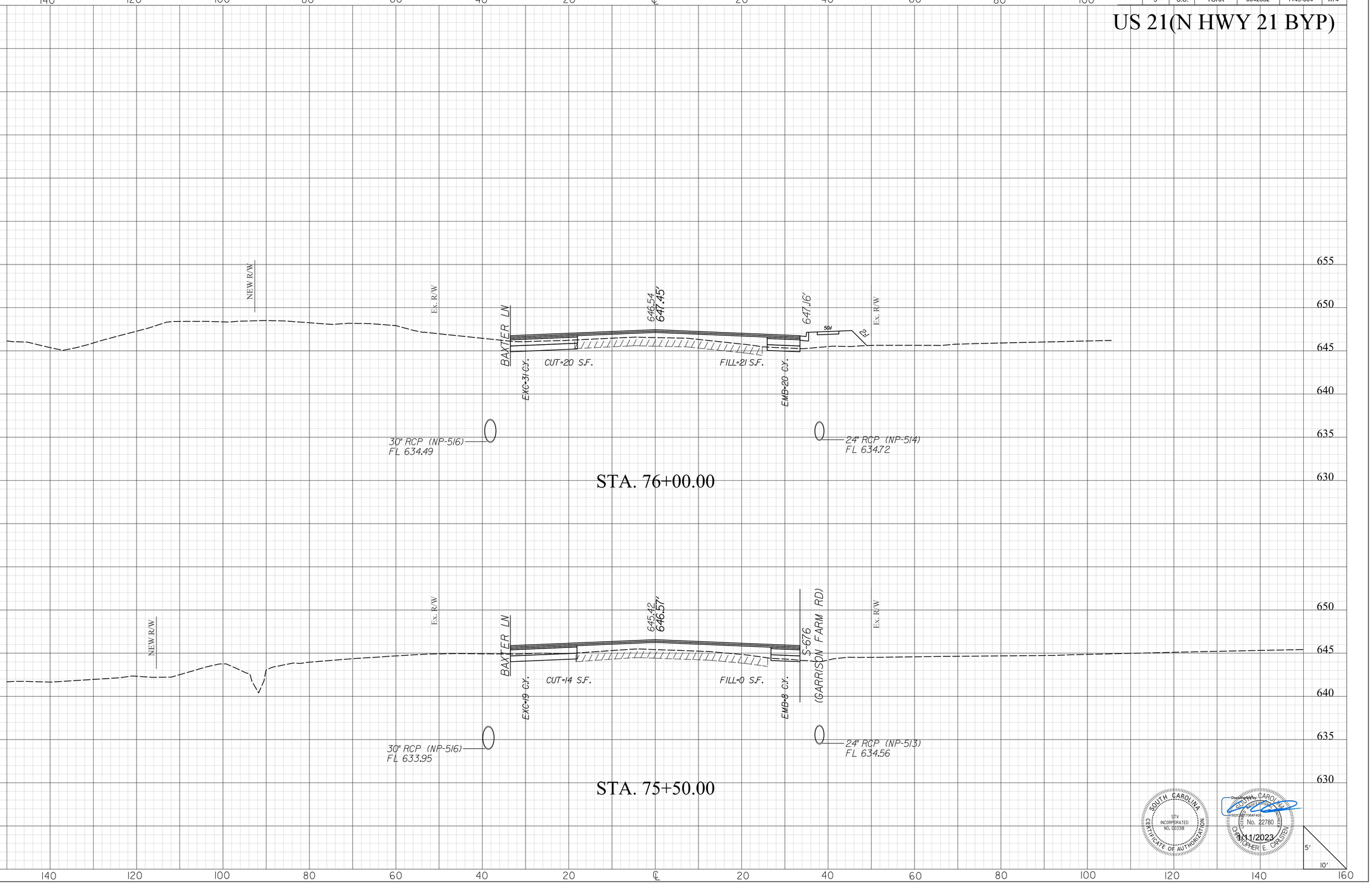
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X74

US 21(N HWY 21 BYP)



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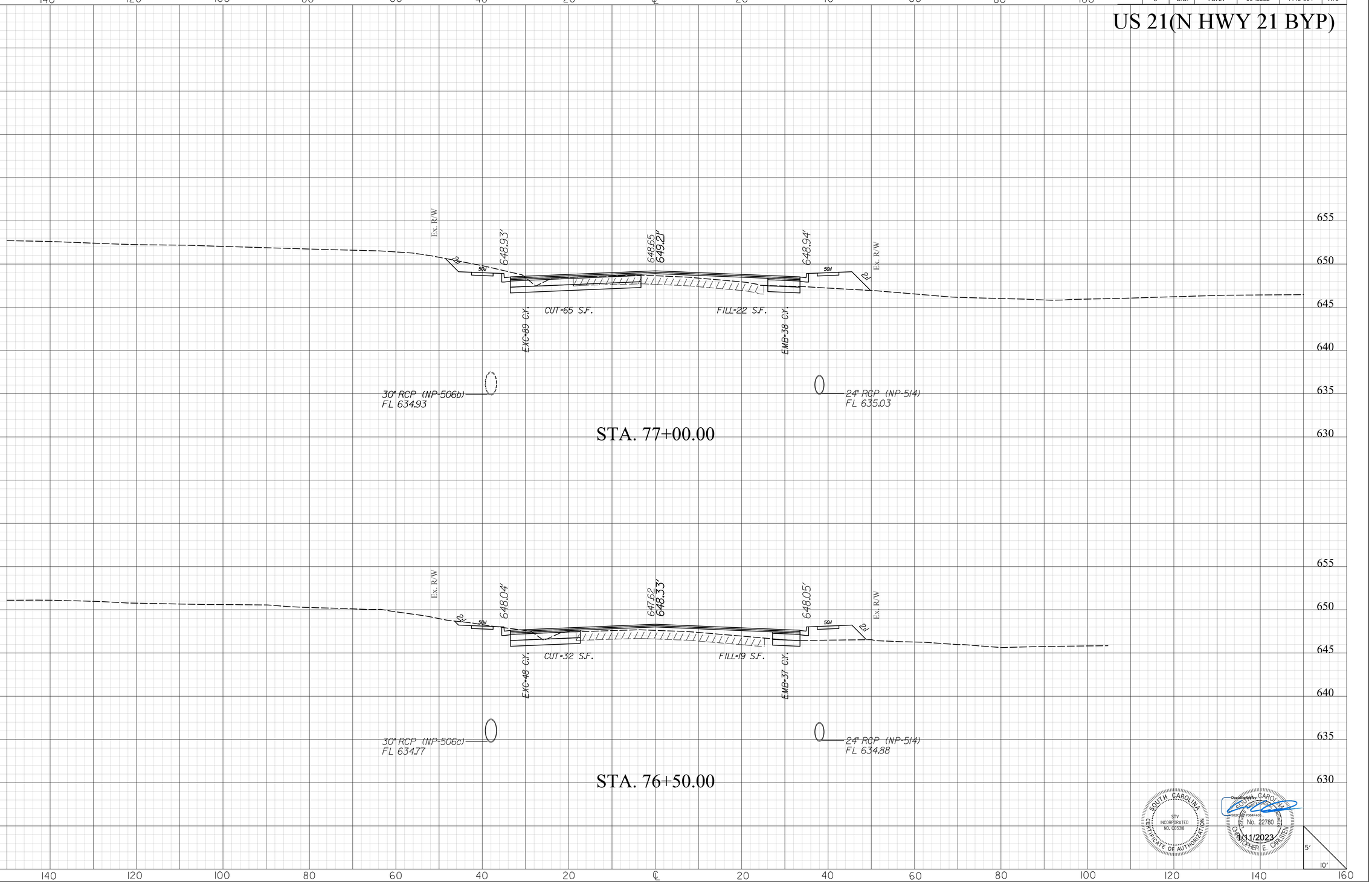
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X75

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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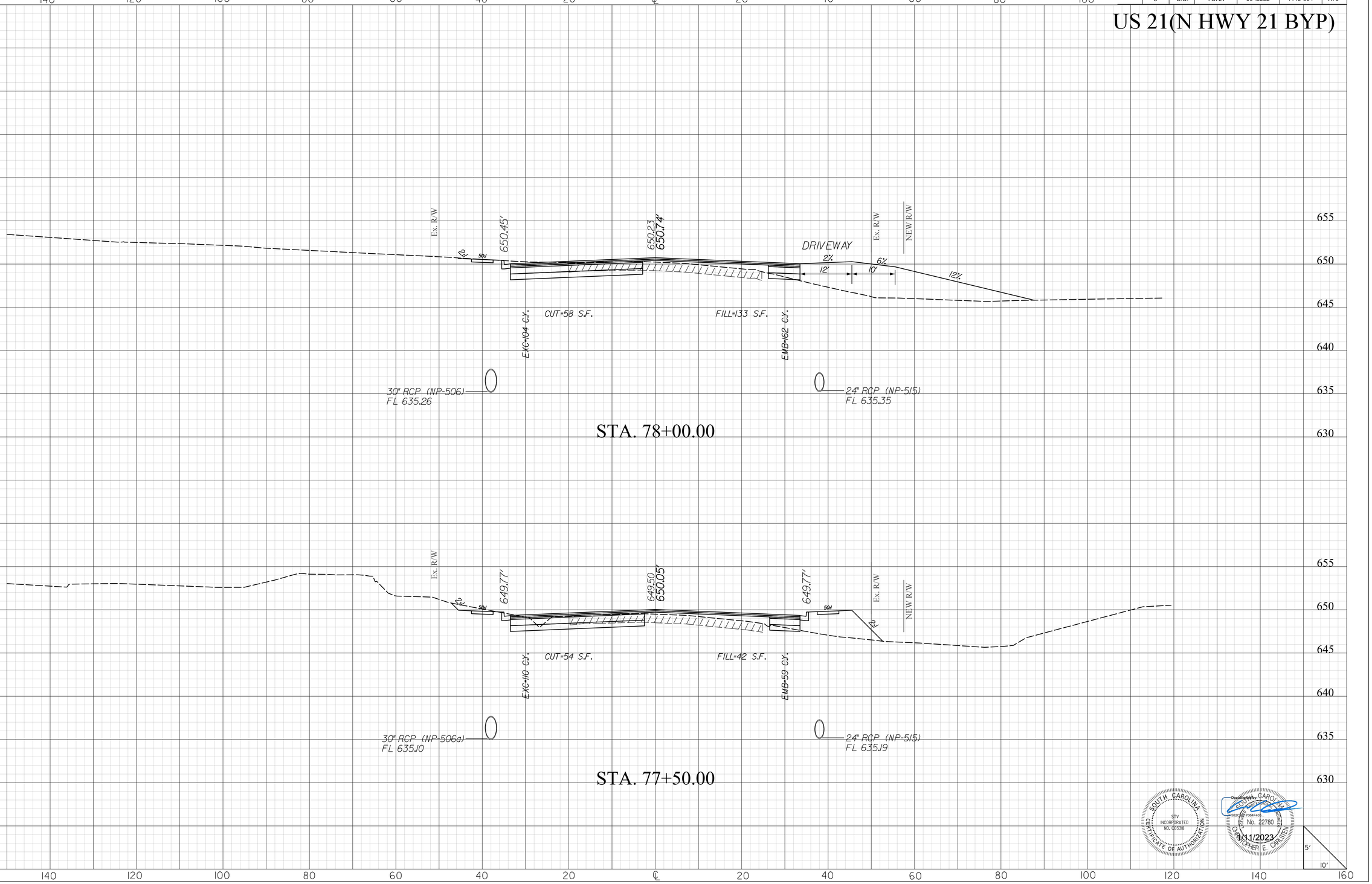
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X76

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA
DN: C=US, O=STV INCORPORATED, CN=SOUTH CAROLINA, E=ENGINEER, 2.5.4.20=5D2C3A87D6AF409...
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

20X5.DGN

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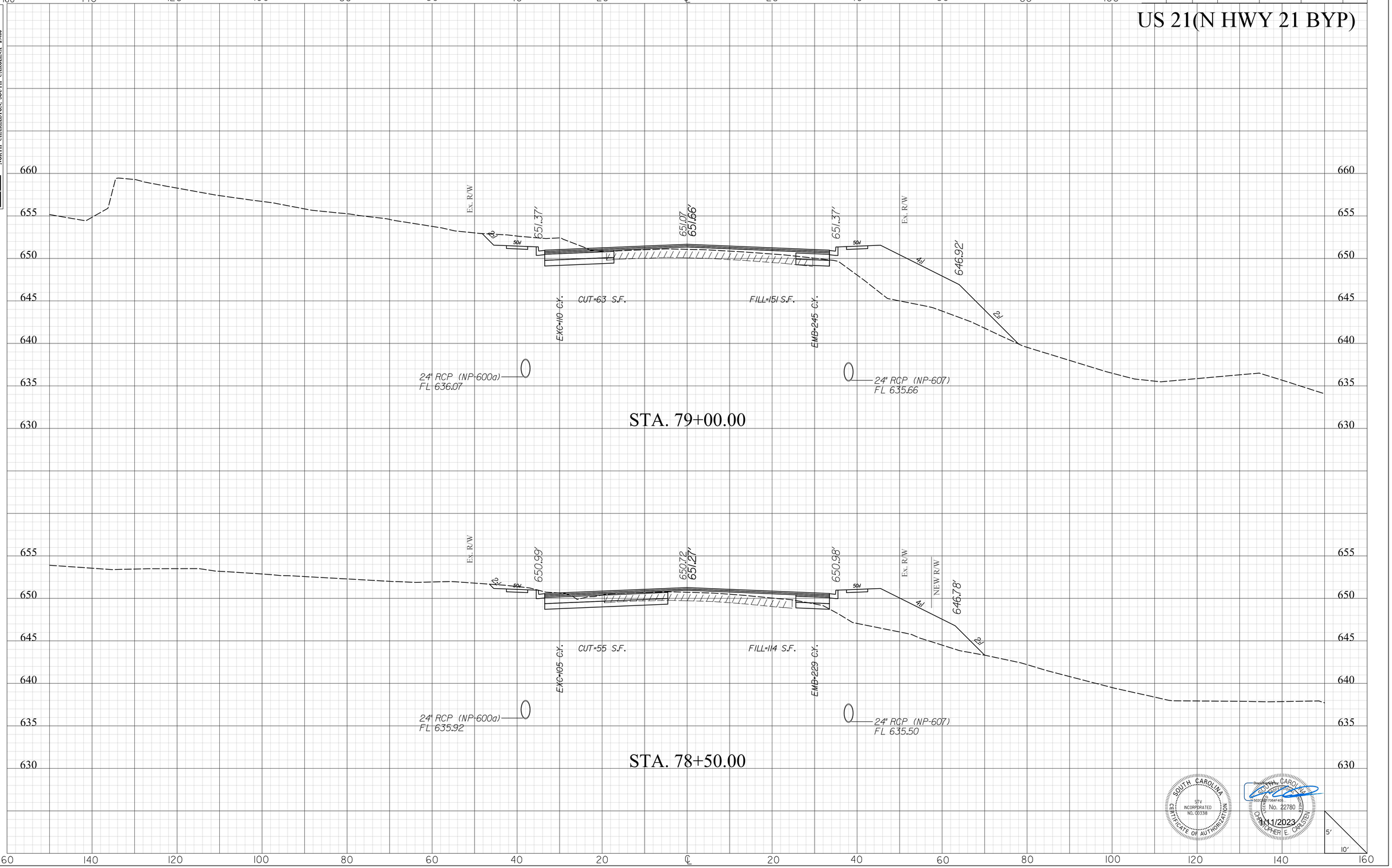
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X77

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by Christopher E. Carlsten
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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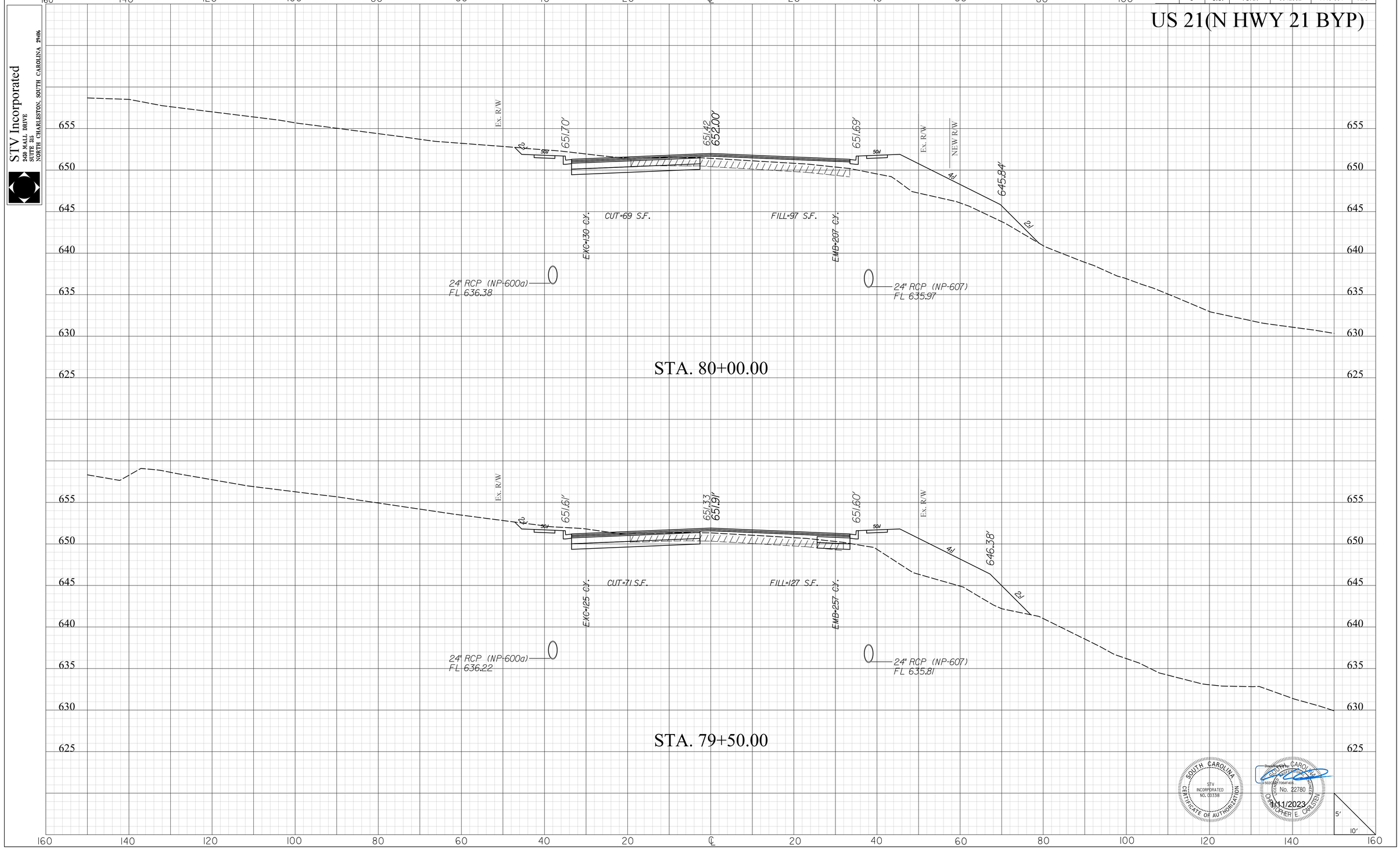
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X78

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSTEN
1/11/2023

masflitg
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1/10/2023

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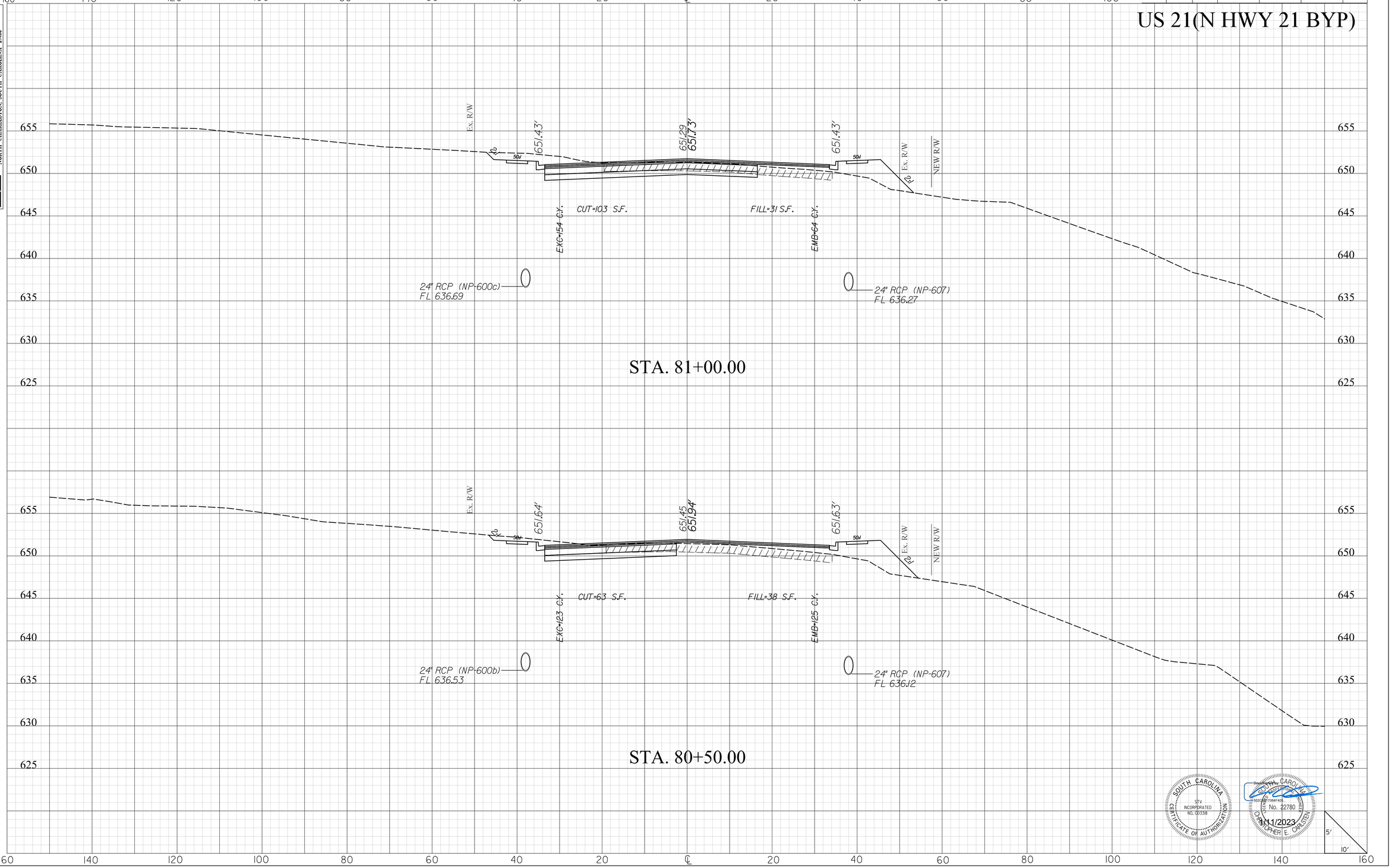
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X79

US 21(N HWY 21 BYP)



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STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X80

US 21(N HWY 21 BYP)

NEW R/W
Ex. R/W
J3-076
(CENTRAL CAROLINA PKWY)
650.46
650.81'
REGENT DRIVEWAY
Ex. R/W
NEW R/W
24" RCP (NP-601a)
FL 637.02
EXC-169 C.Y.
CUT-85 S.F.
FILL-3 S.F.
EMB-28 C.Y.
24" RCP (NP-608)
FL 636.58

STA. 82+00.00

NEW R/W
Ex. R/W
20'
50'
651.08'
650.96
651.38'
651.07'
50'
Ex. R/W
20'
NEW R/W
24" RCP (NP-600c)
FL 636.85
EXC-186 C.Y.
CUT-98 S.F.
FILL-27 S.F.
EMB-54 C.Y.
24" RCP (NP-607)
FL 636.43

STA. 81+50.00

SOUTH CAROLINA
STV
INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARSTEN
No. 22780
1/11/2023

5'
10'

masflitg
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1/10/2023

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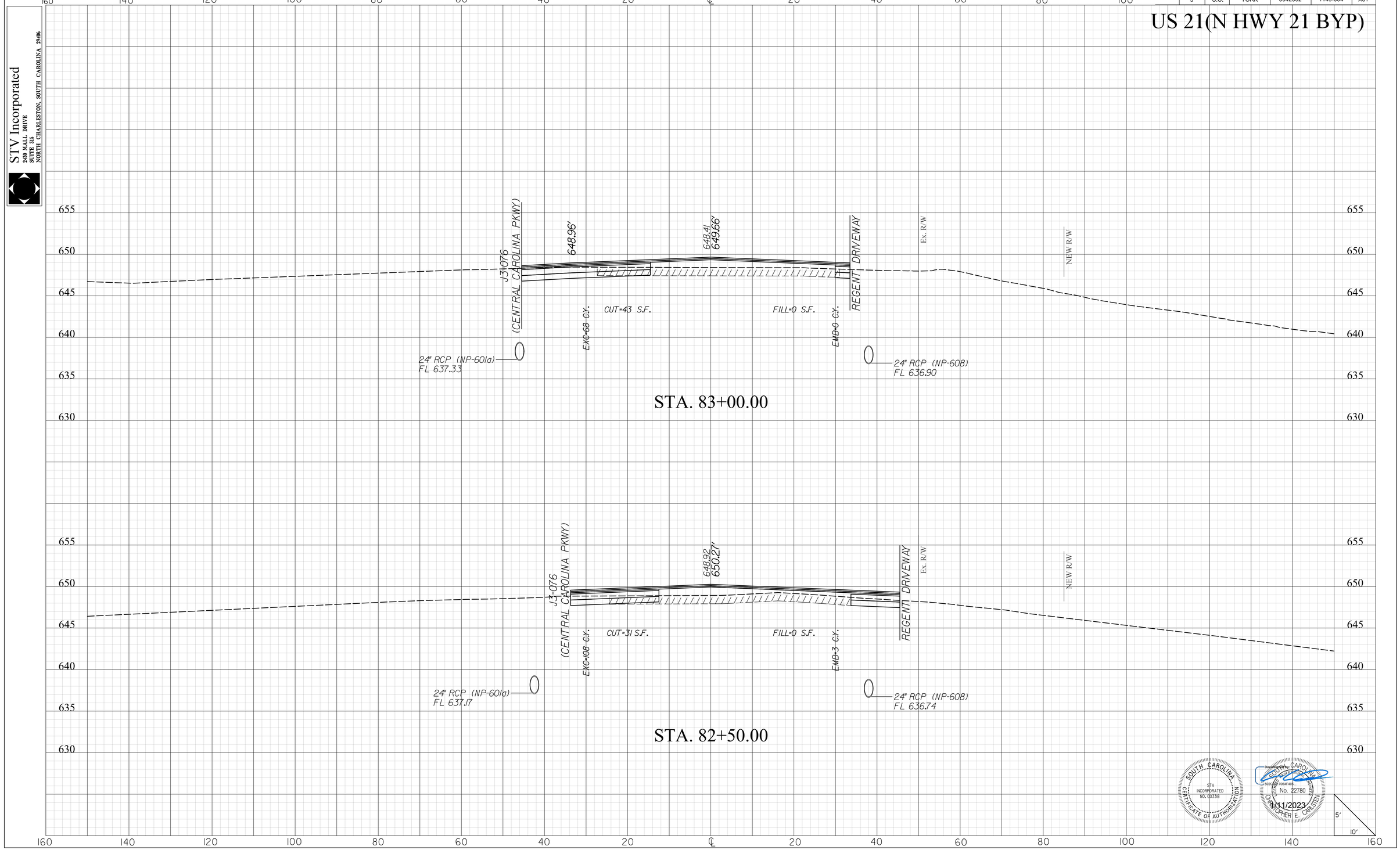
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X81

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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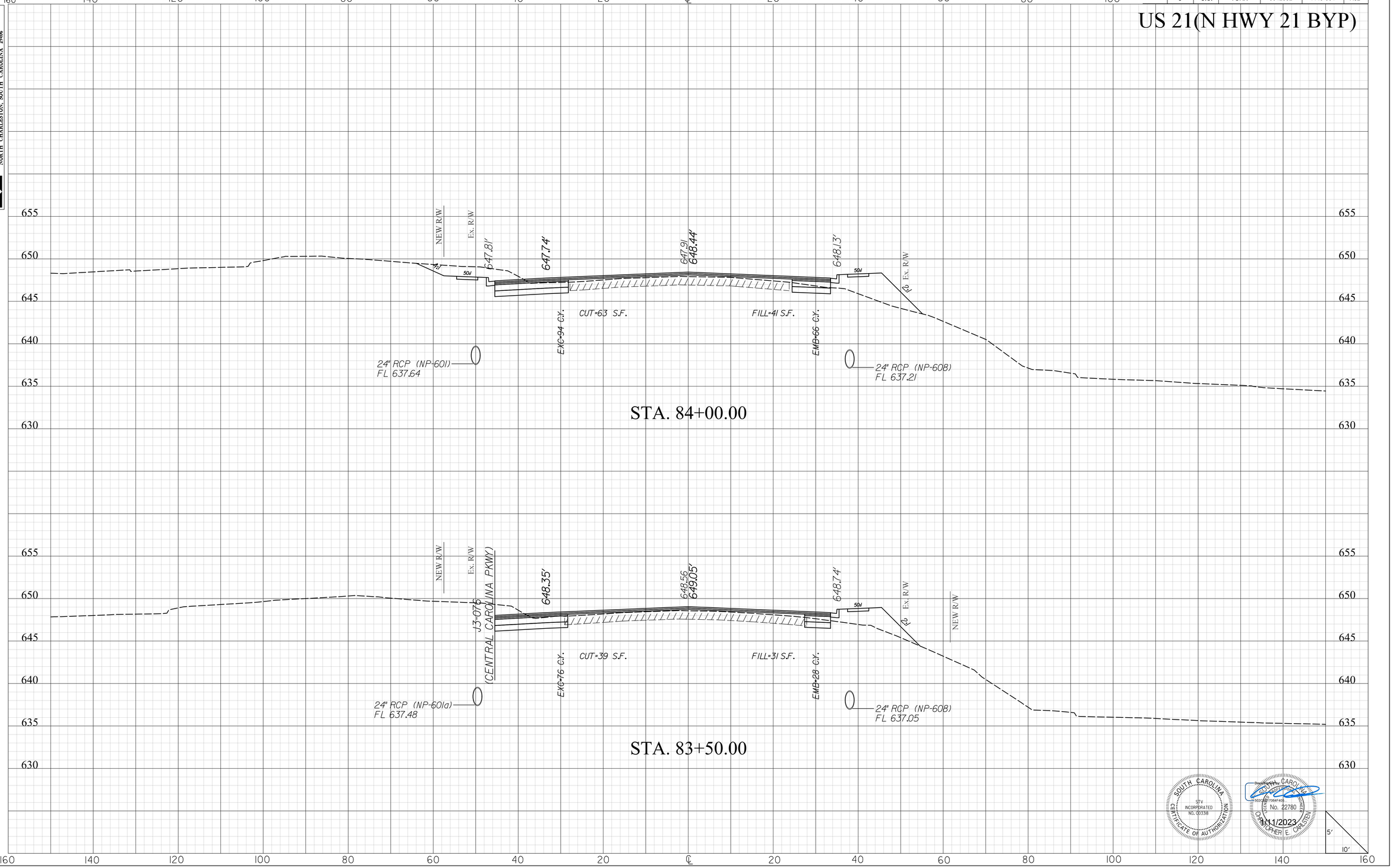
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X82

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)



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1/10/2023

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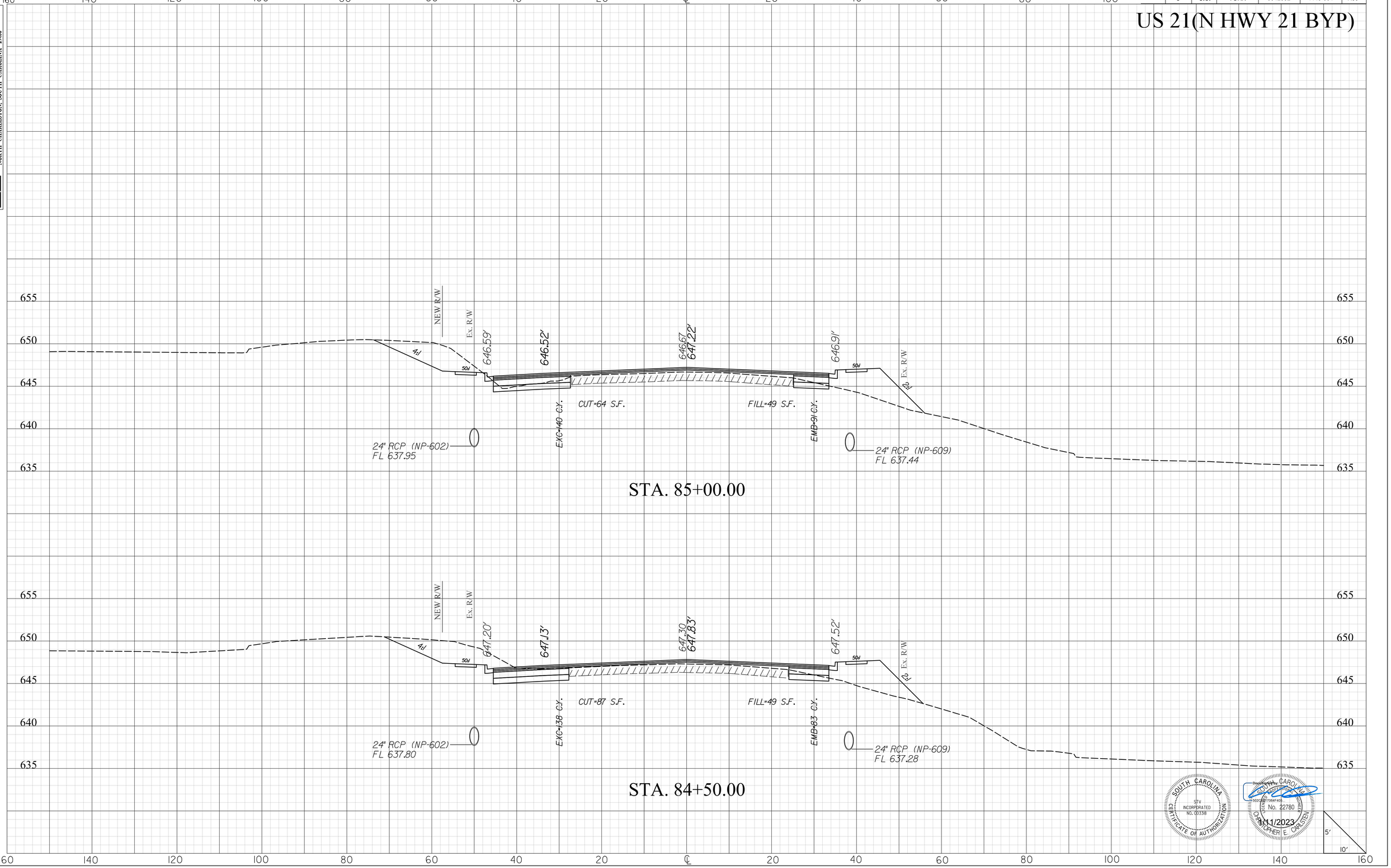
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X83

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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1/10/2023

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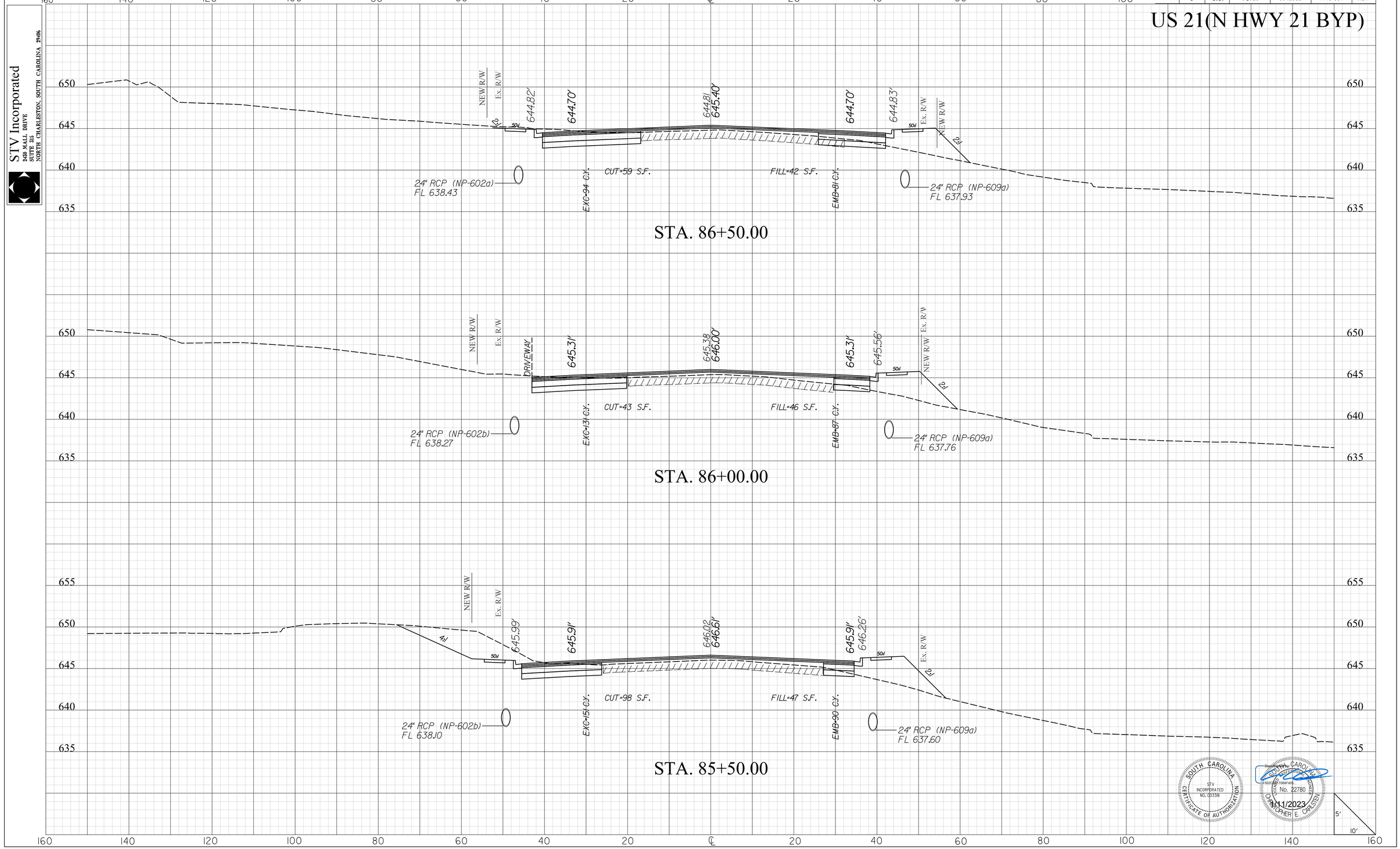
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X84

US 21(N HWY 21 BYP)



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1/10/2023

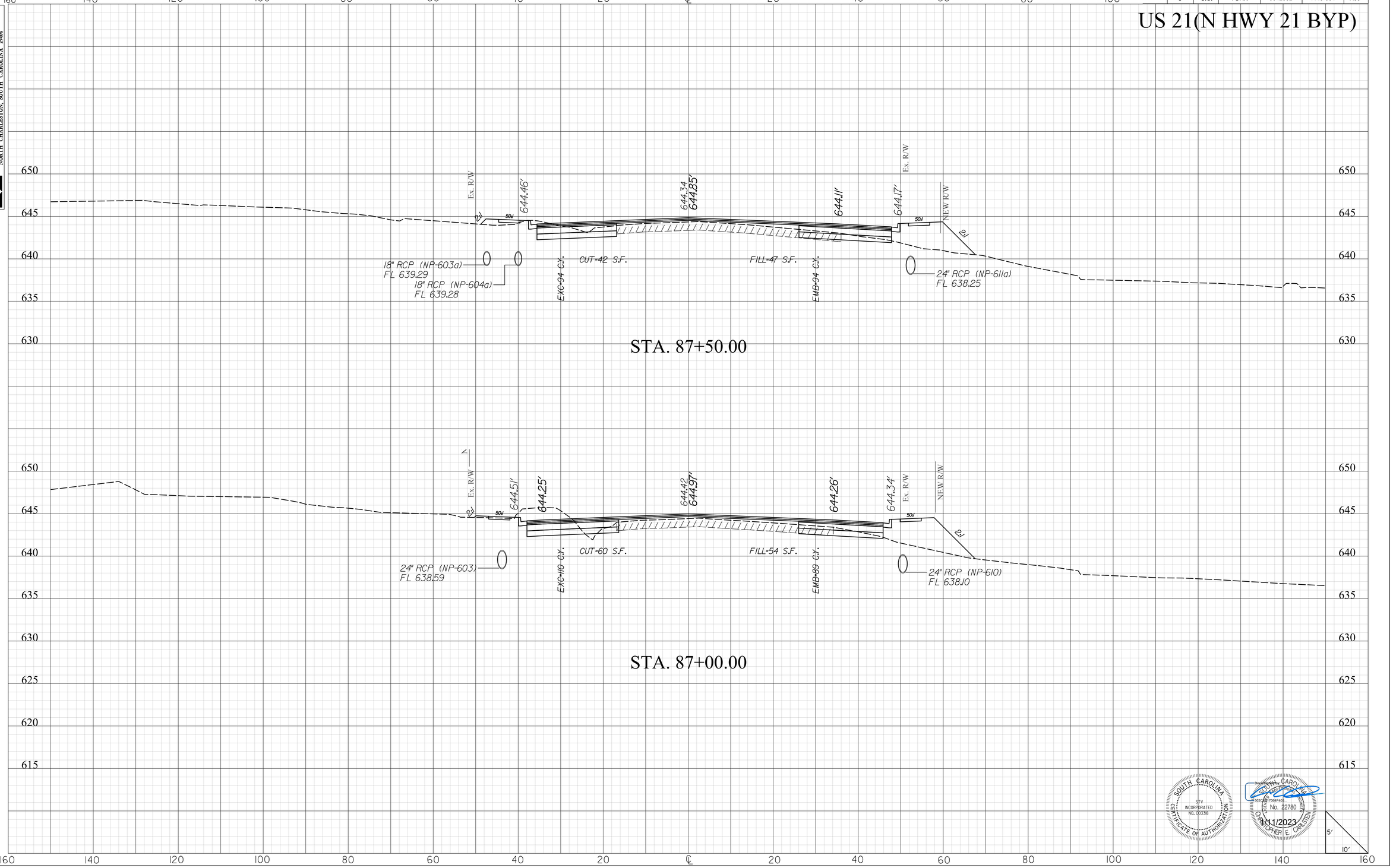
DocuSign Envelope ID: AFA916DC-DDA3-41C4-BCC1-1C9A76809E64

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X85

US 21(N HWY 21 BYP)



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1/10/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X86

US 21(N HWY 21 BYP)

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

STA. 89+00.00

Ex. R/W — 645.91' — 645.74 646.30' — 645.50' — J-107 (REGENT PKWY) — NEW R/W

18" RCP (NP-604b)
FL 641.43

EXC-81 C.Y. | CUT=43 S.F. | FILL=7 S.F. | EMB-42 C.Y.

18" RCP (NP-612)
FL 639.93

STA. 88+50.00

NEW R/W — Ex. R/W — 645.16' — 644.93 645.51' — 644.73' — Ex. R/W — 644.78' — NEW R/W

18" RCP (NP-604b)
FL 640.54

EXC-81 C.Y. | CUT=44 S.F. | FILL=38 S.F. | EMB-90 C.Y.

18" RCP (NP-611)
FL 639.47

STA. 88+00.00

Ex. R/W — 644.68' — 644.51 645.03' — 644.27' — 644.32' — NEW R/W

18" RCP (NP-604a)
FL 639.82

EXC-79 C.Y. | CUT=43 S.F. | FILL=48 S.F. | EMB-88 C.Y.

18" RCP (NP-611)
FL 638.95

SOUTH CAROLINA — STV INCORPORATED NO. C00338 — CERTIFICATE OF AUTHORIZATION

Christopher E. Carsten — No. 22780 — 1/11/2023

5' / 10'

masflitg
I:\Projects\2515776\2515776-000\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US2L_XPL.dgn
1/10/2023

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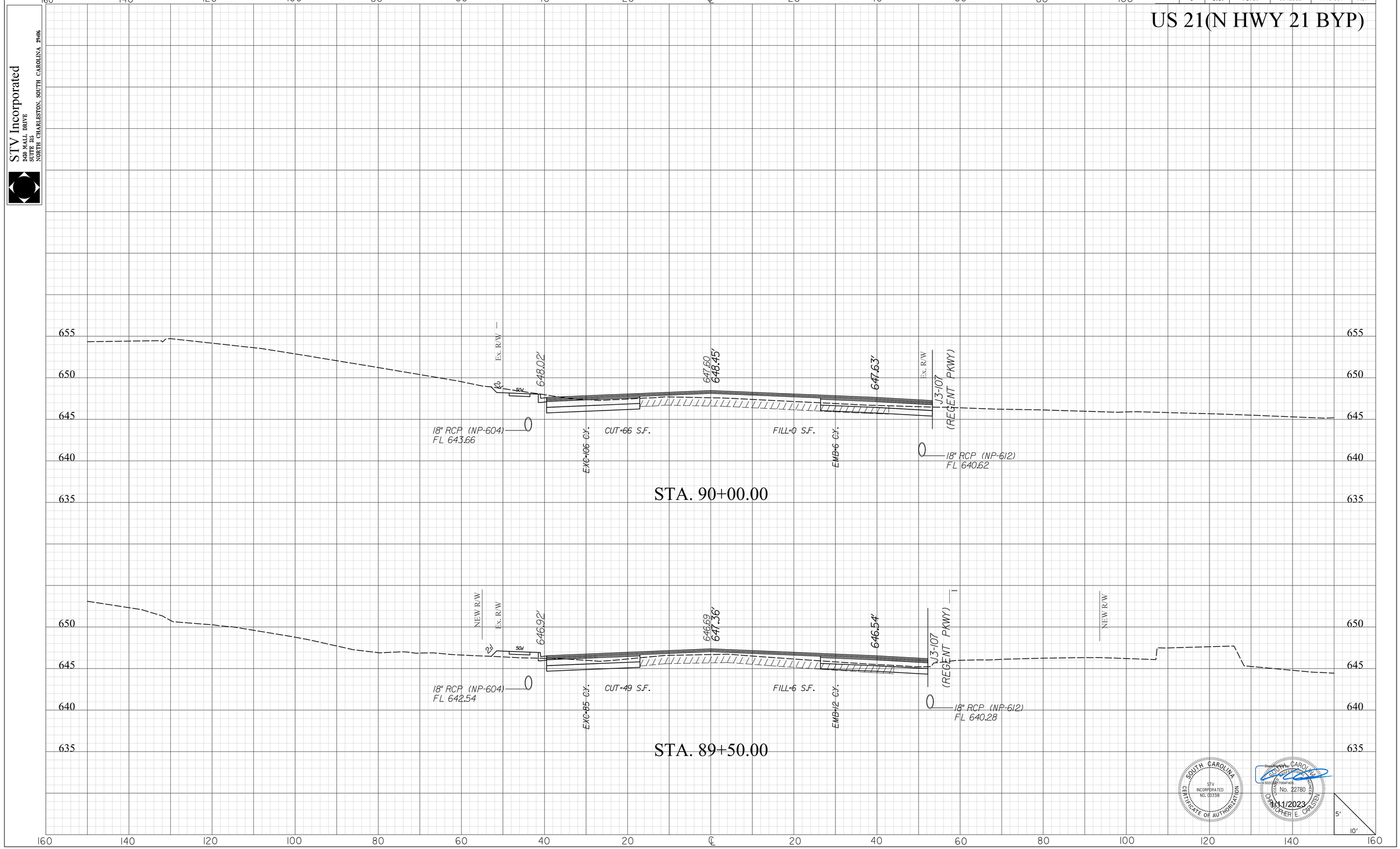
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X87

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

mastiltg
I:\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US21_XPL.dgn
1/10/2023

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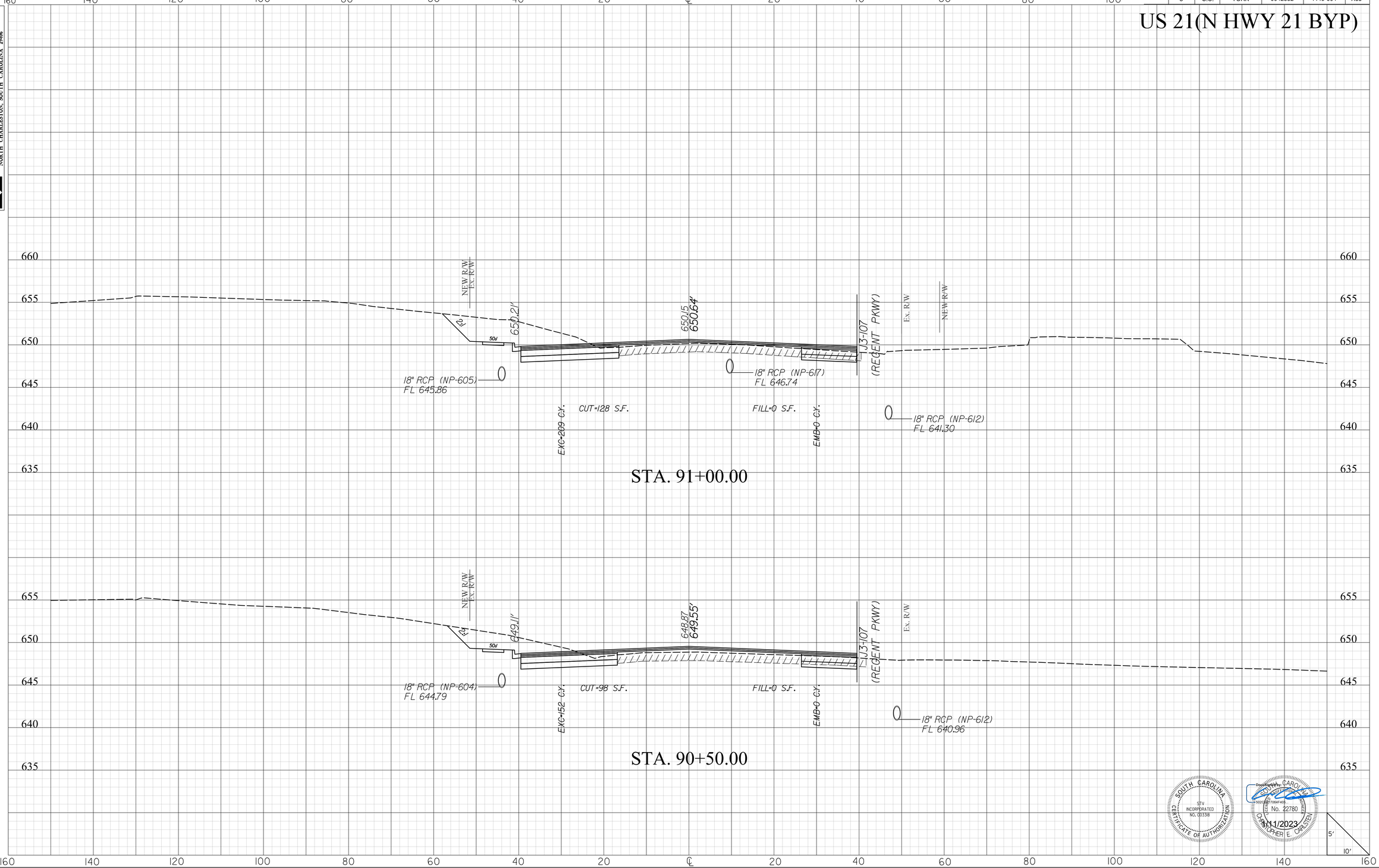
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X88

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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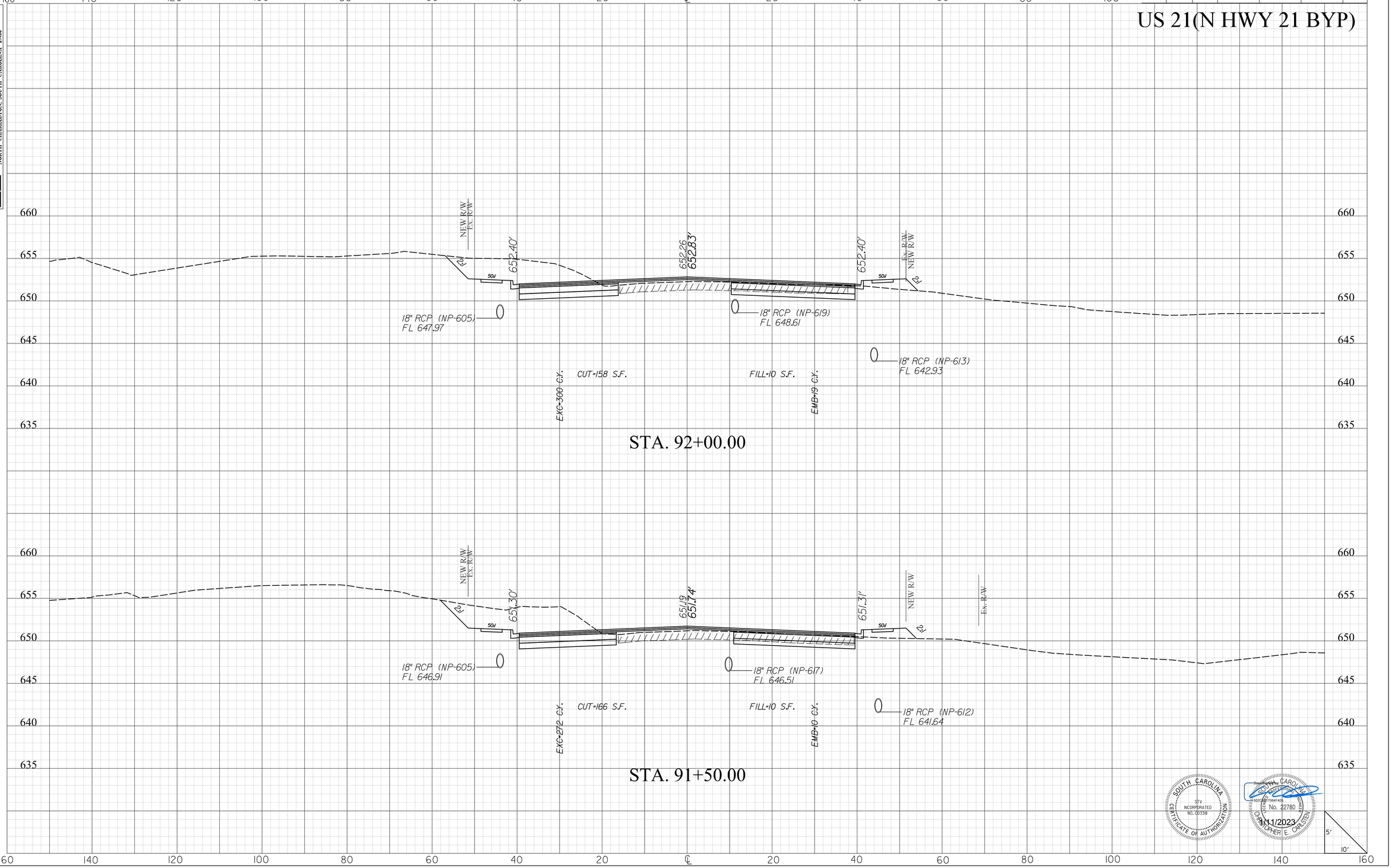
DocuSign Envelope ID: AFA916DC-DDA3-41C4-BCC1-1C9A76809E64

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X89

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

mastiltg
I:\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_US21_XPL.dgn
1/10/2023

20XS.DGN

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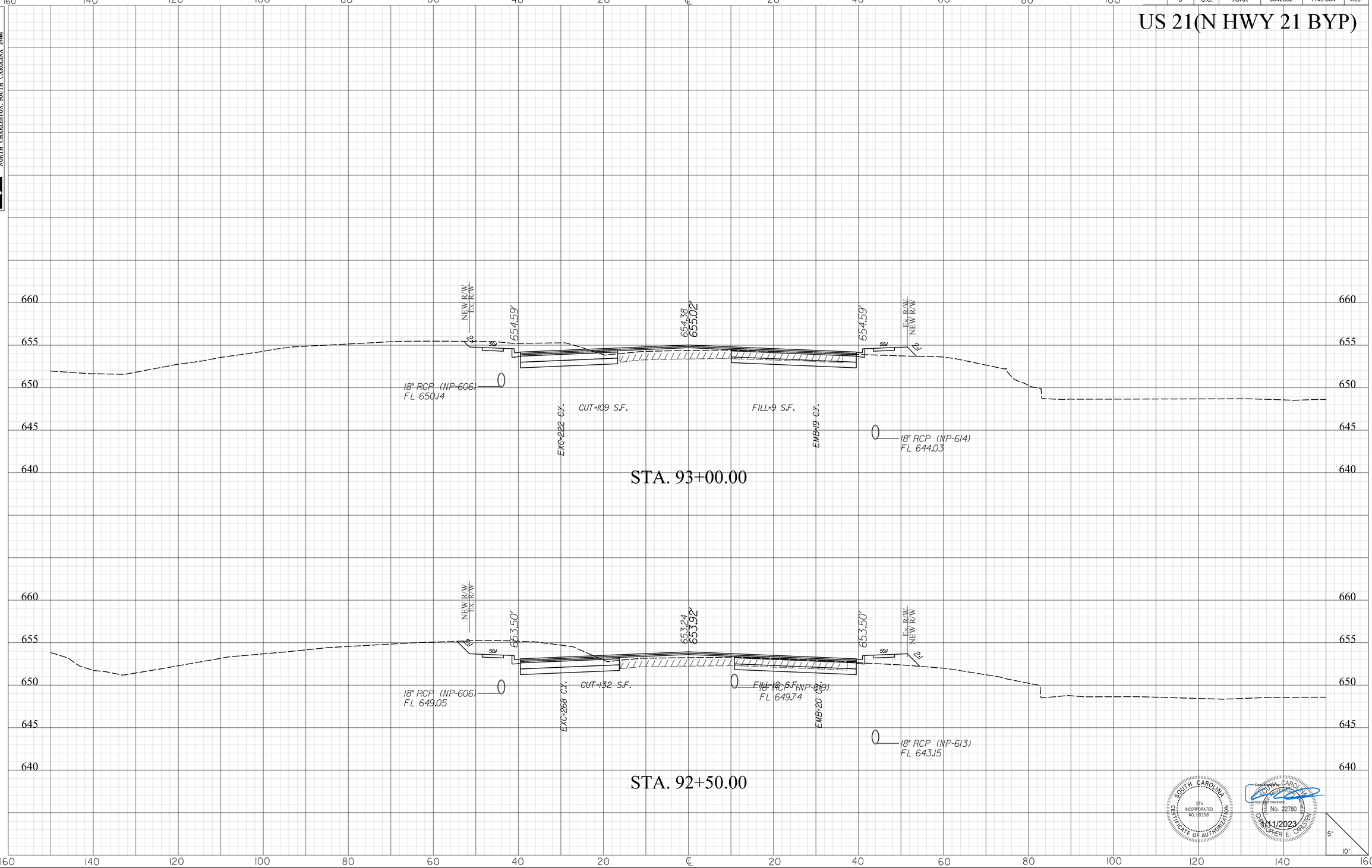
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X90

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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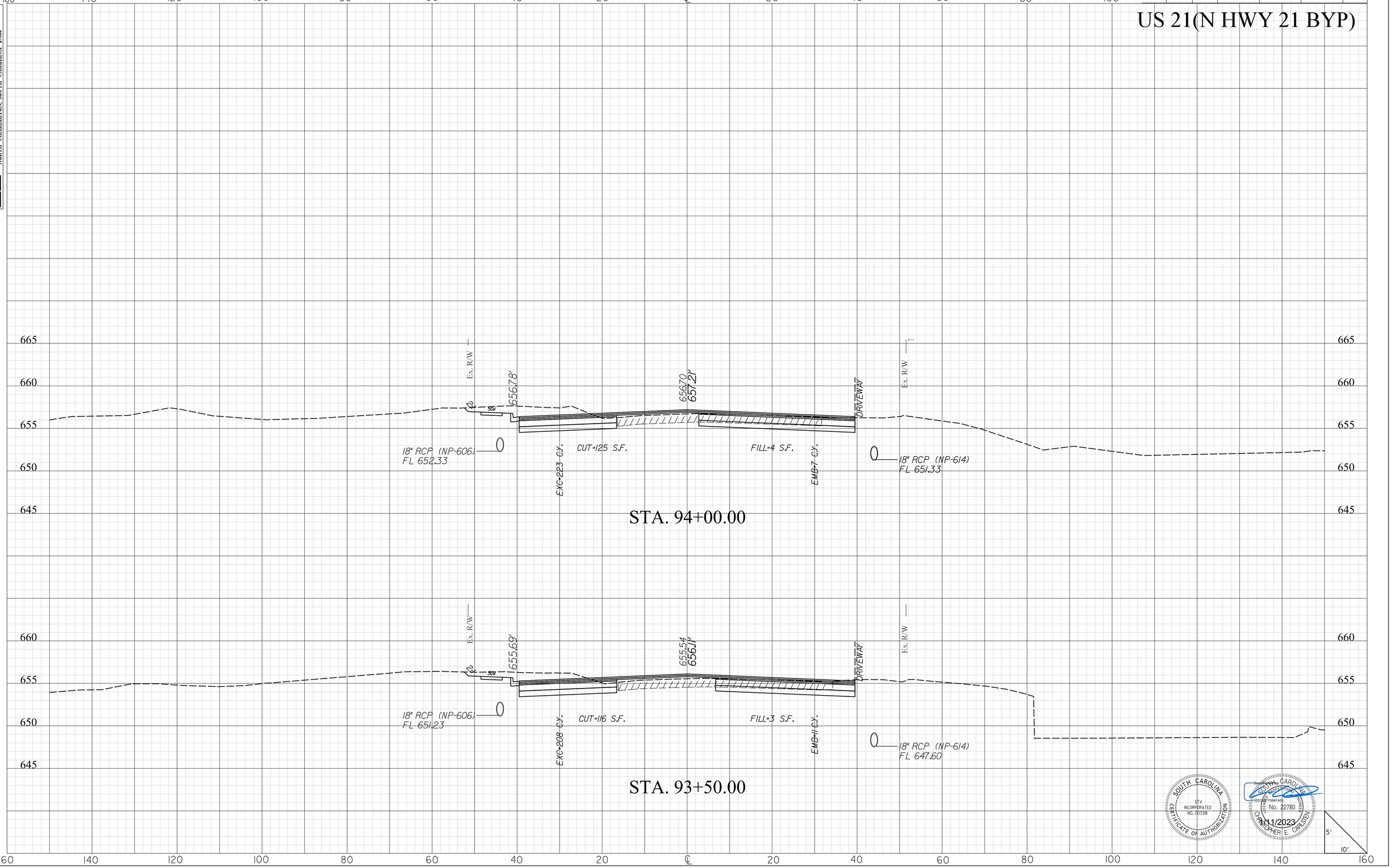
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X91

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN

1/11/2023

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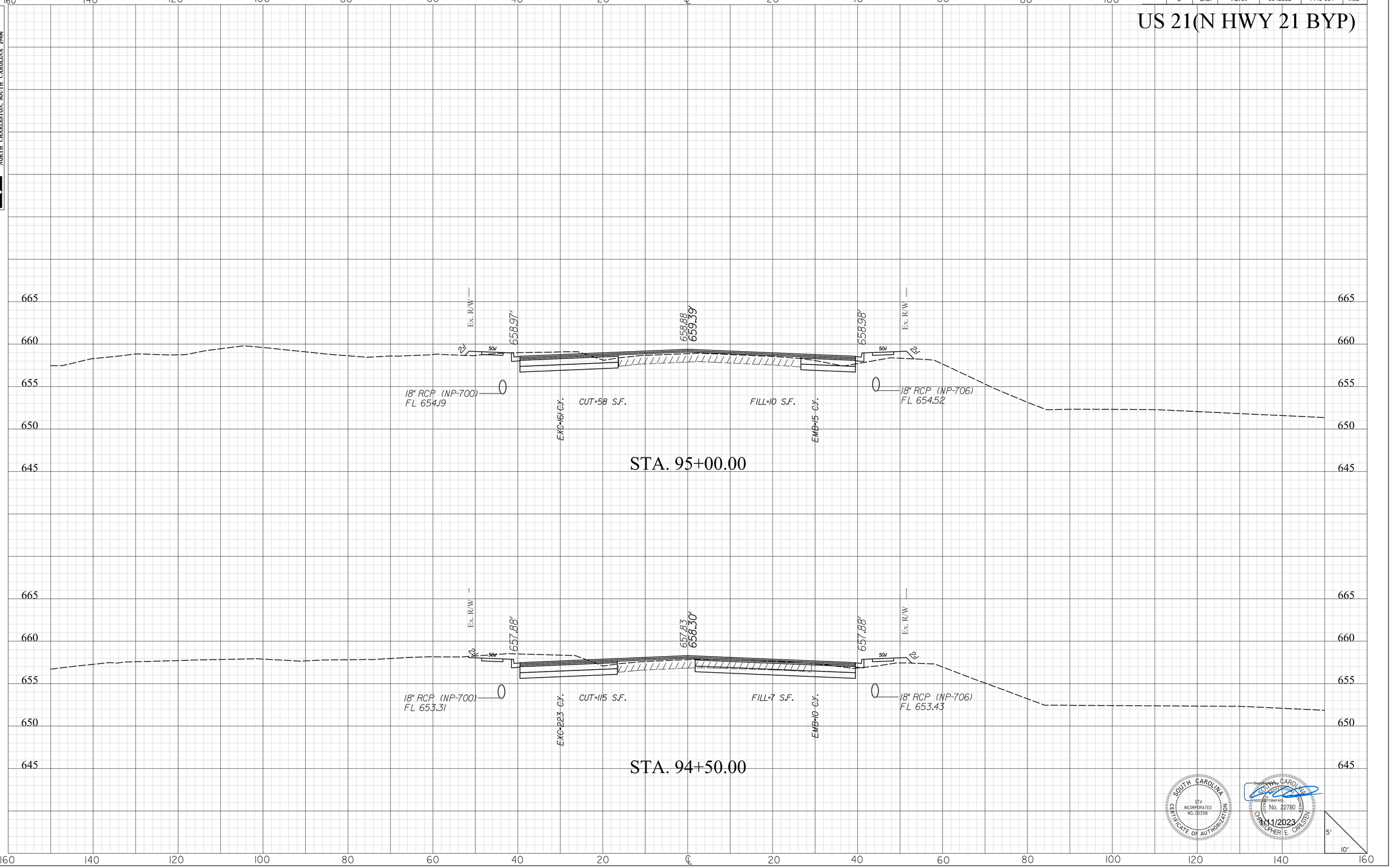
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X92

US 21(N HWY 21 BYP)



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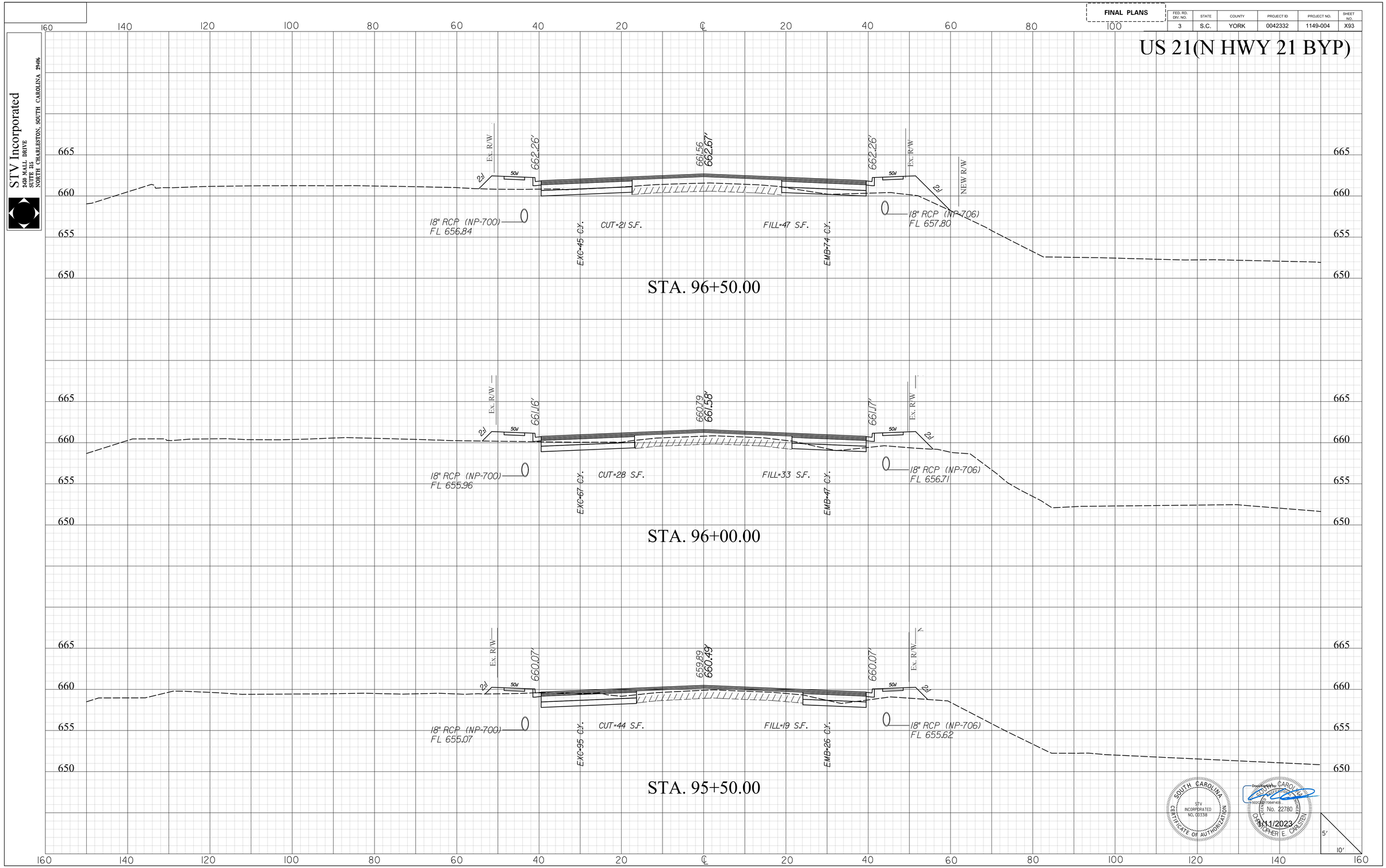
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X93

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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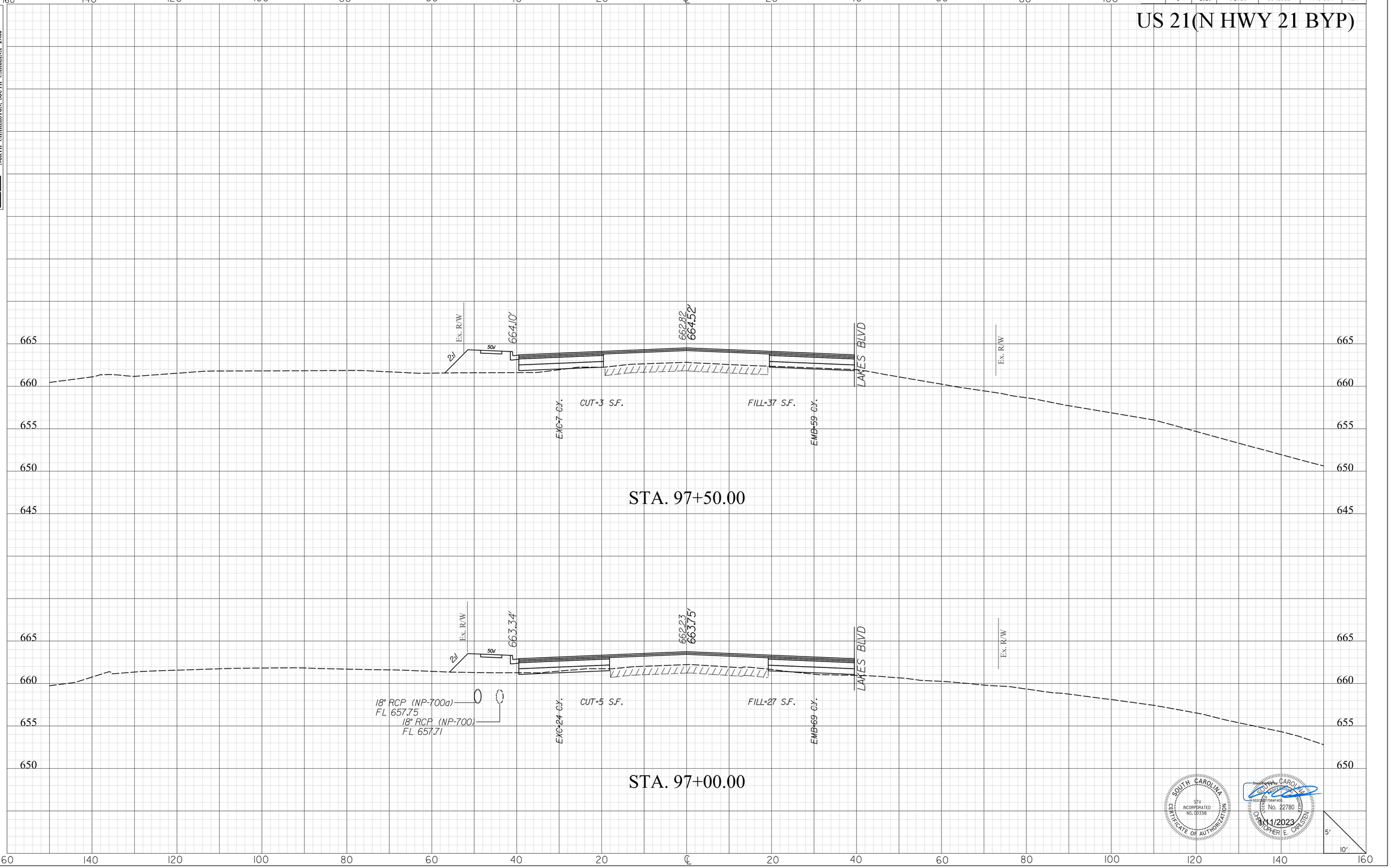
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X94

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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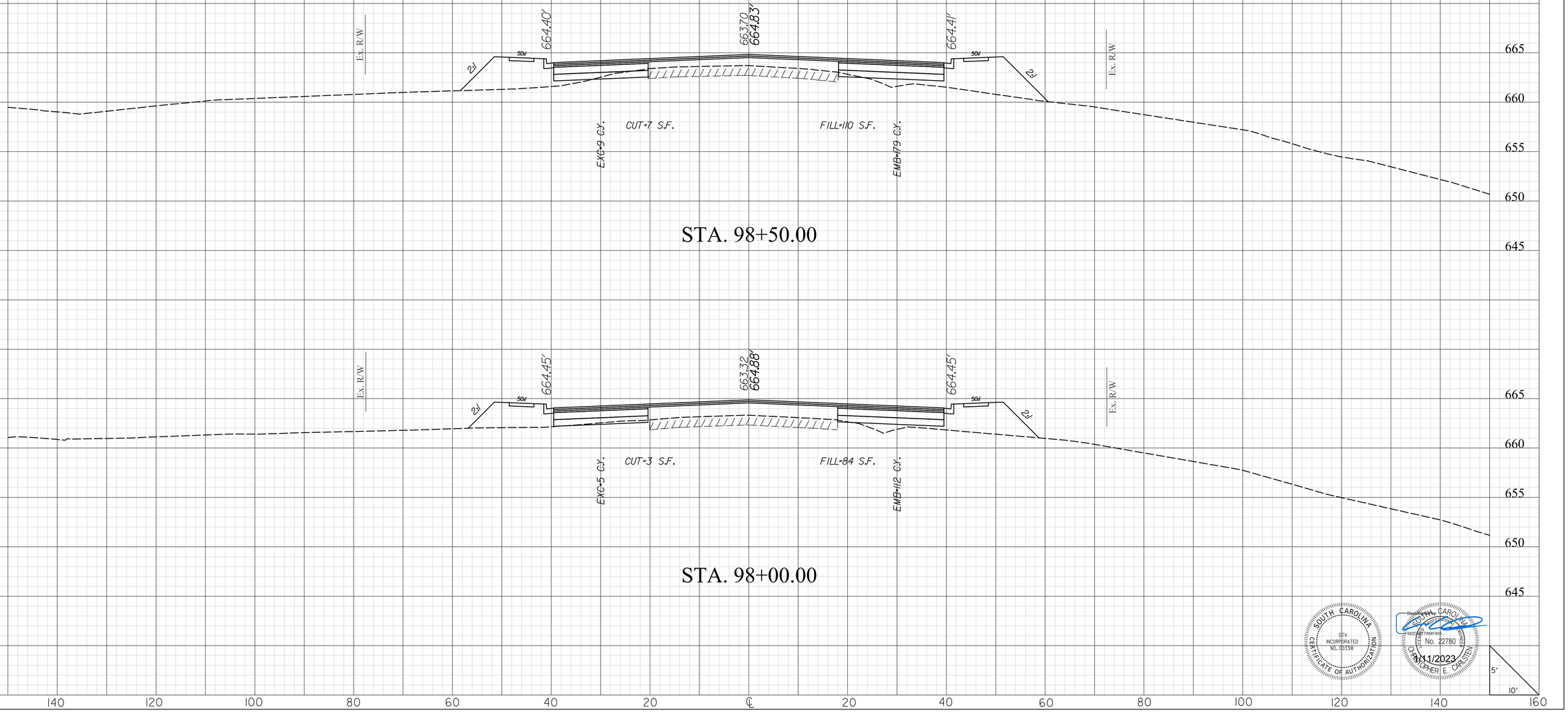
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X95

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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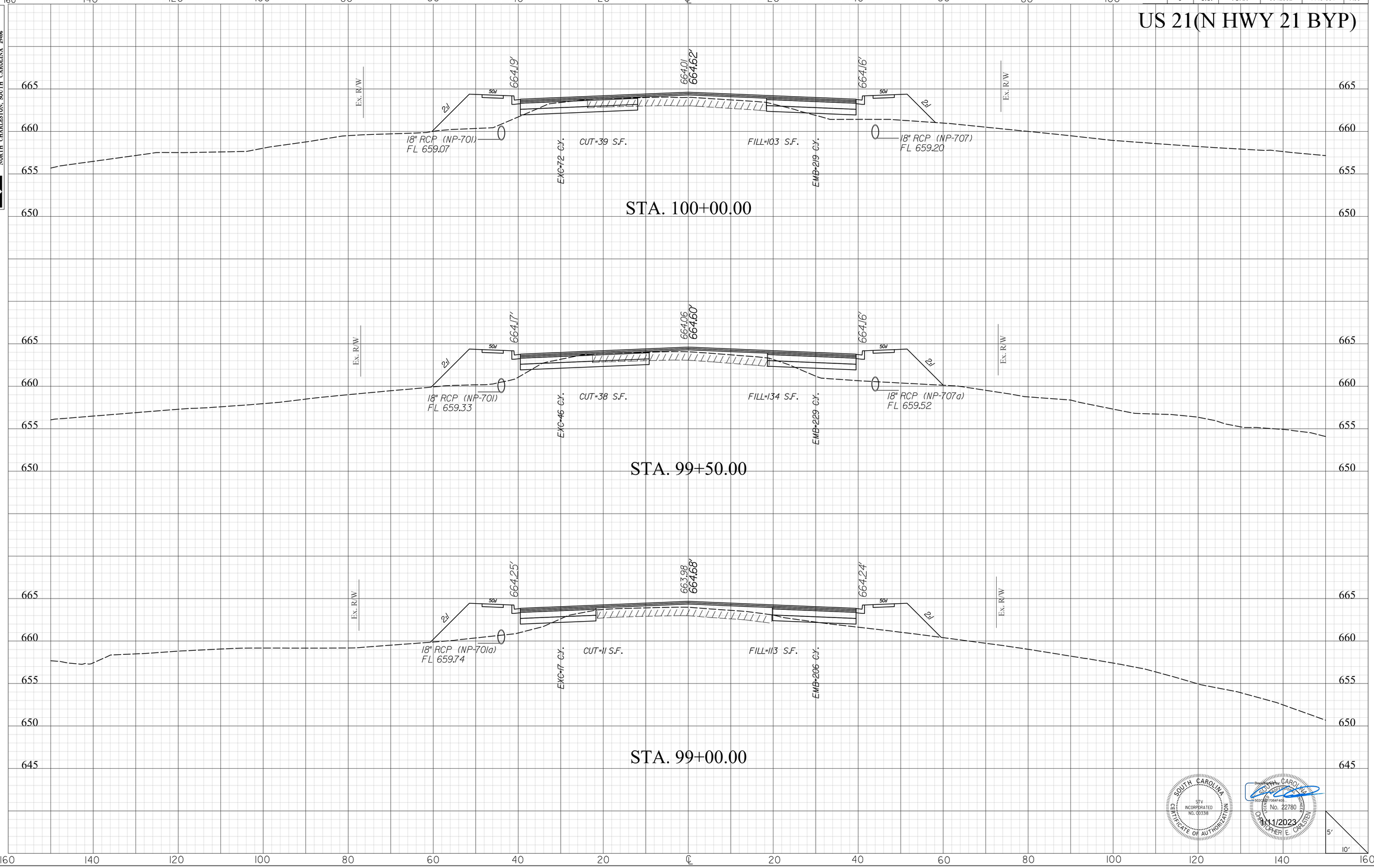
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X96

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. 00338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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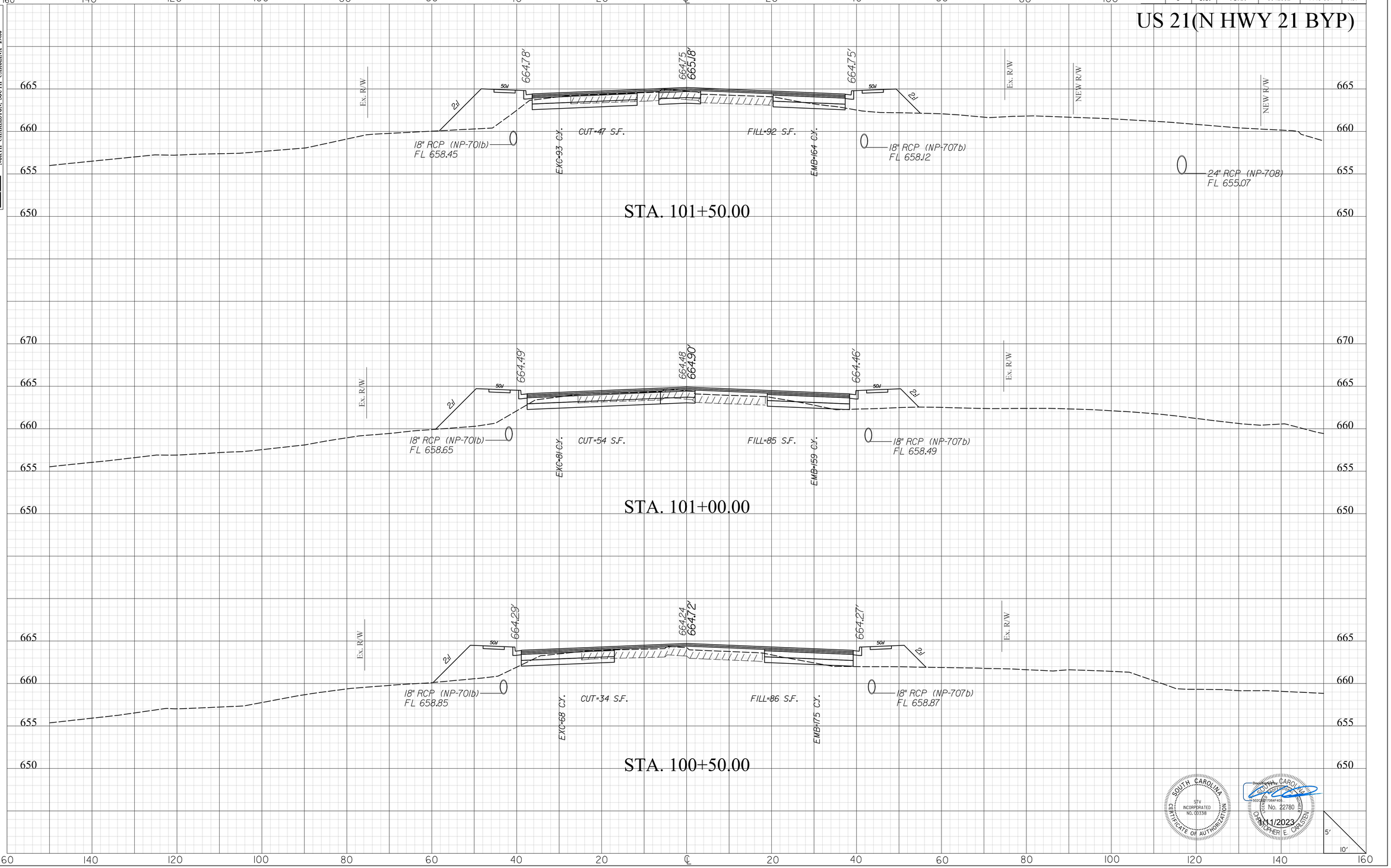
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X97

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTEN
1/11/2023

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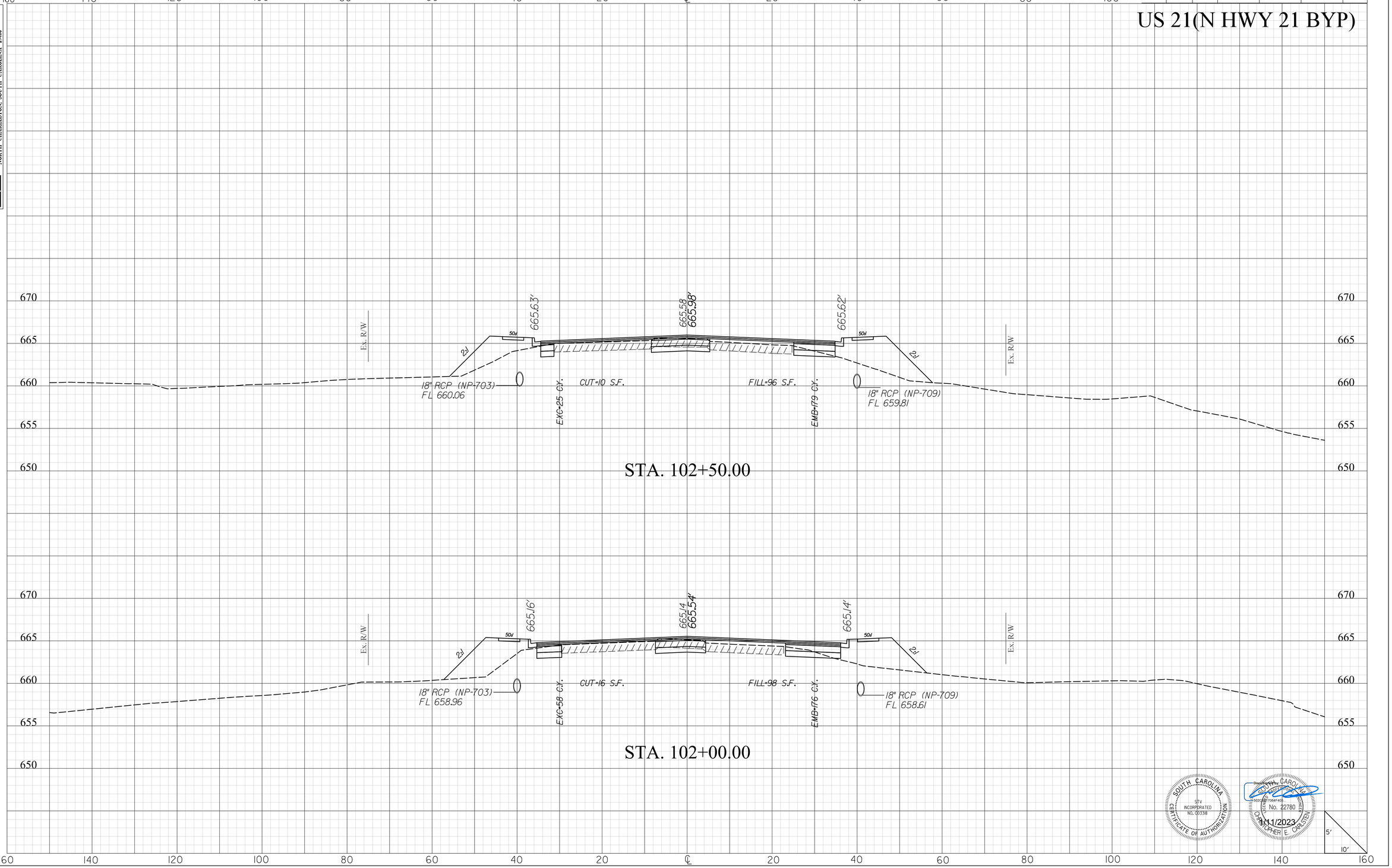
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X98

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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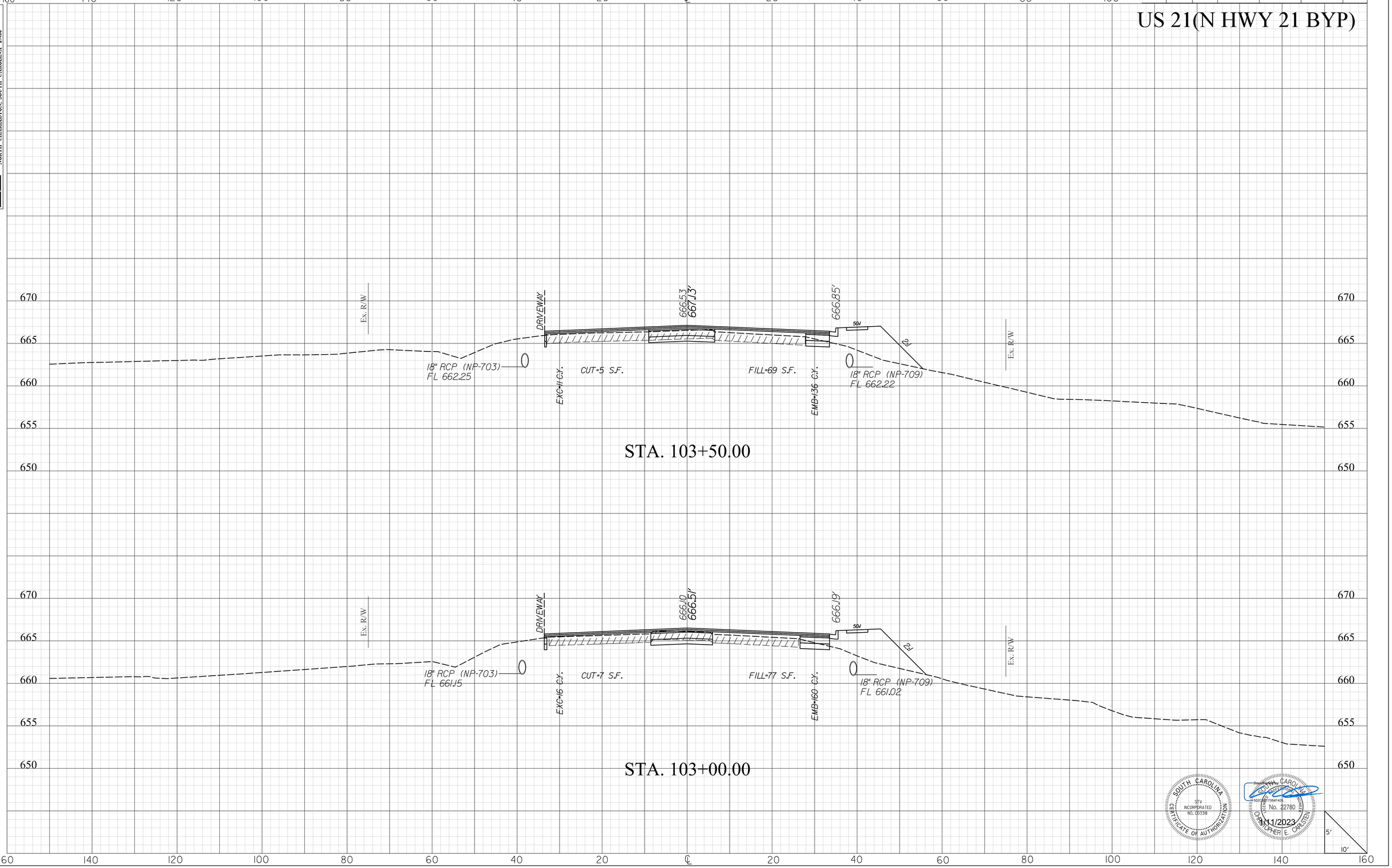
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X99

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARSTEN
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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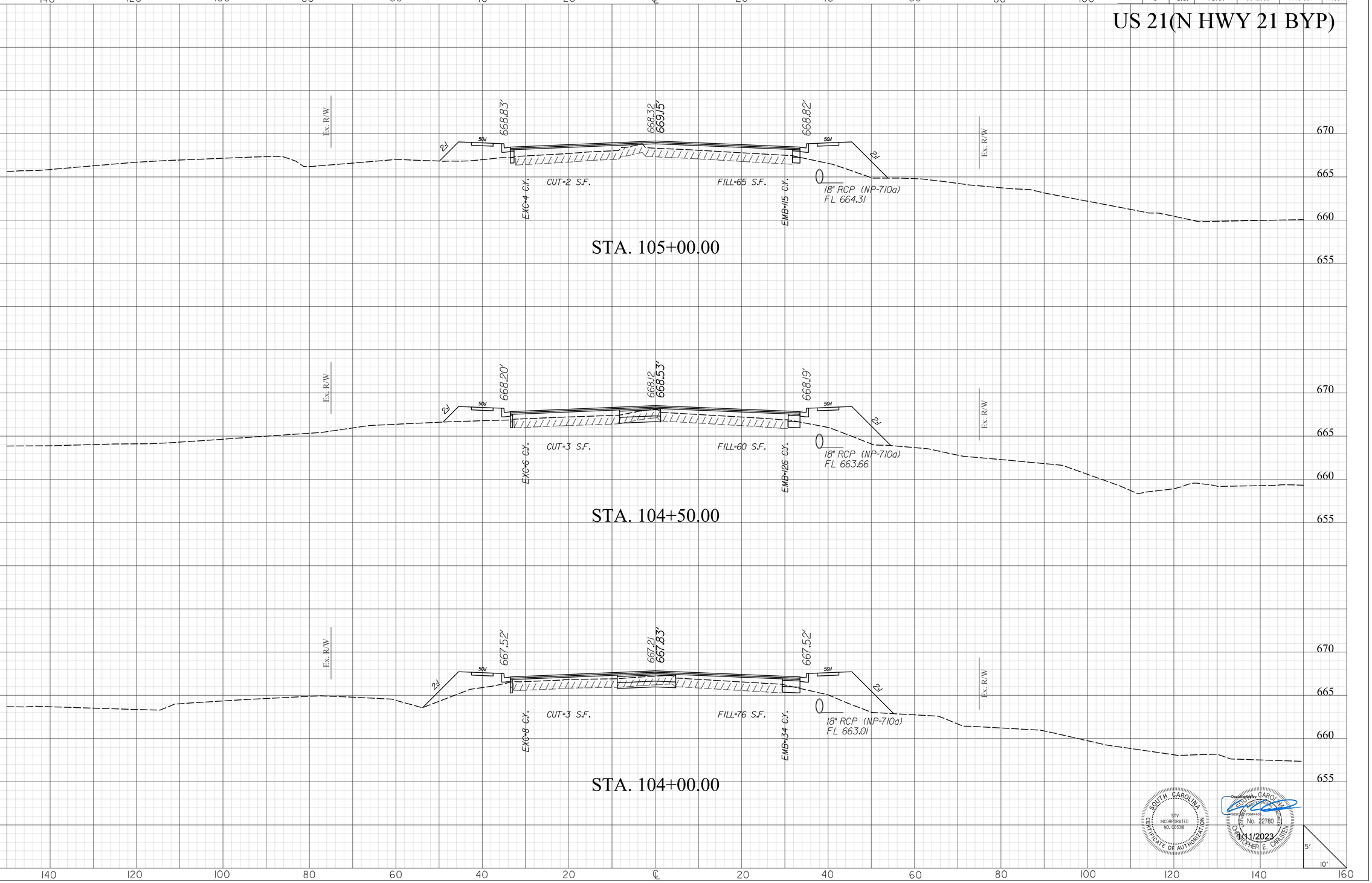
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. 000338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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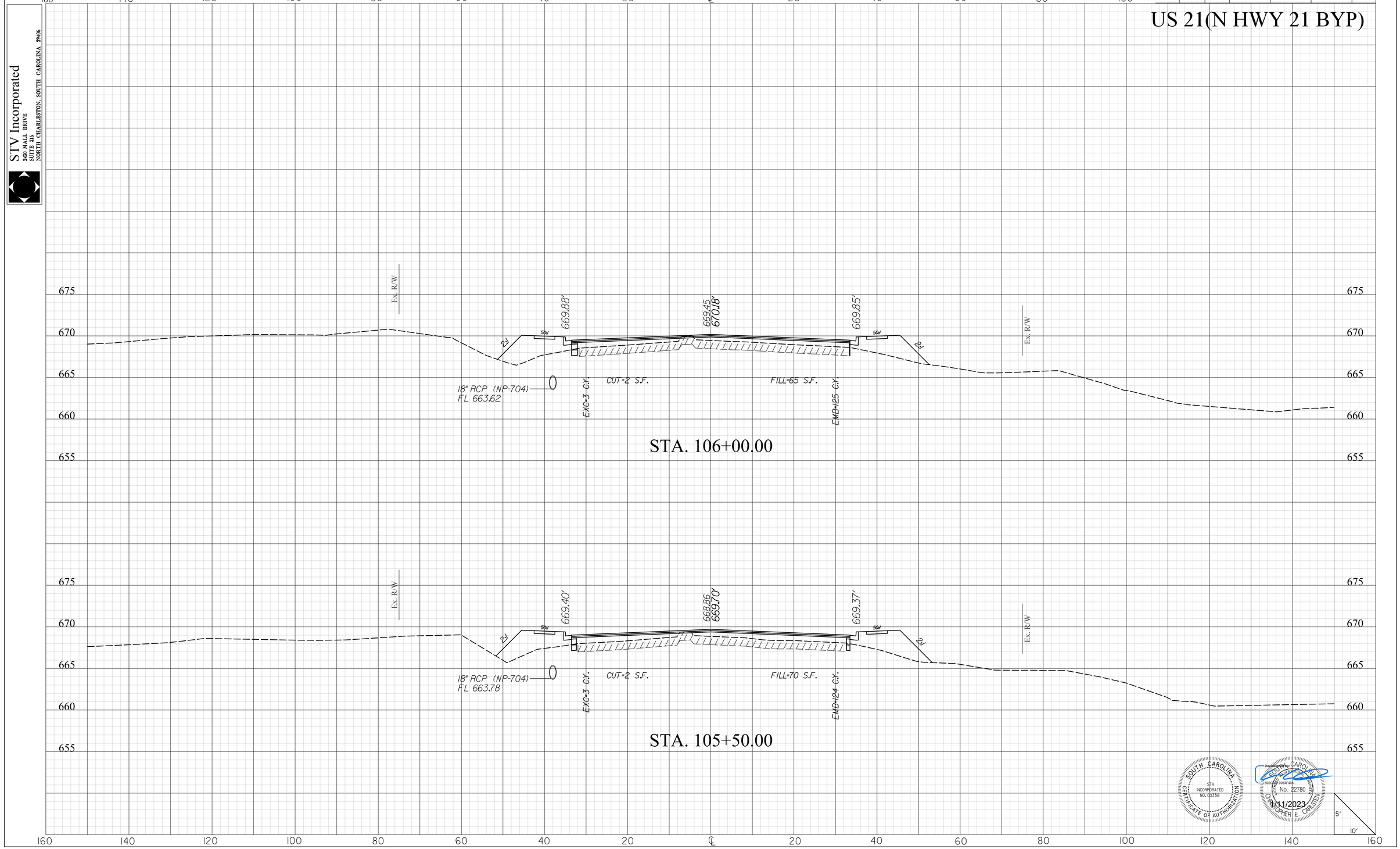
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X101

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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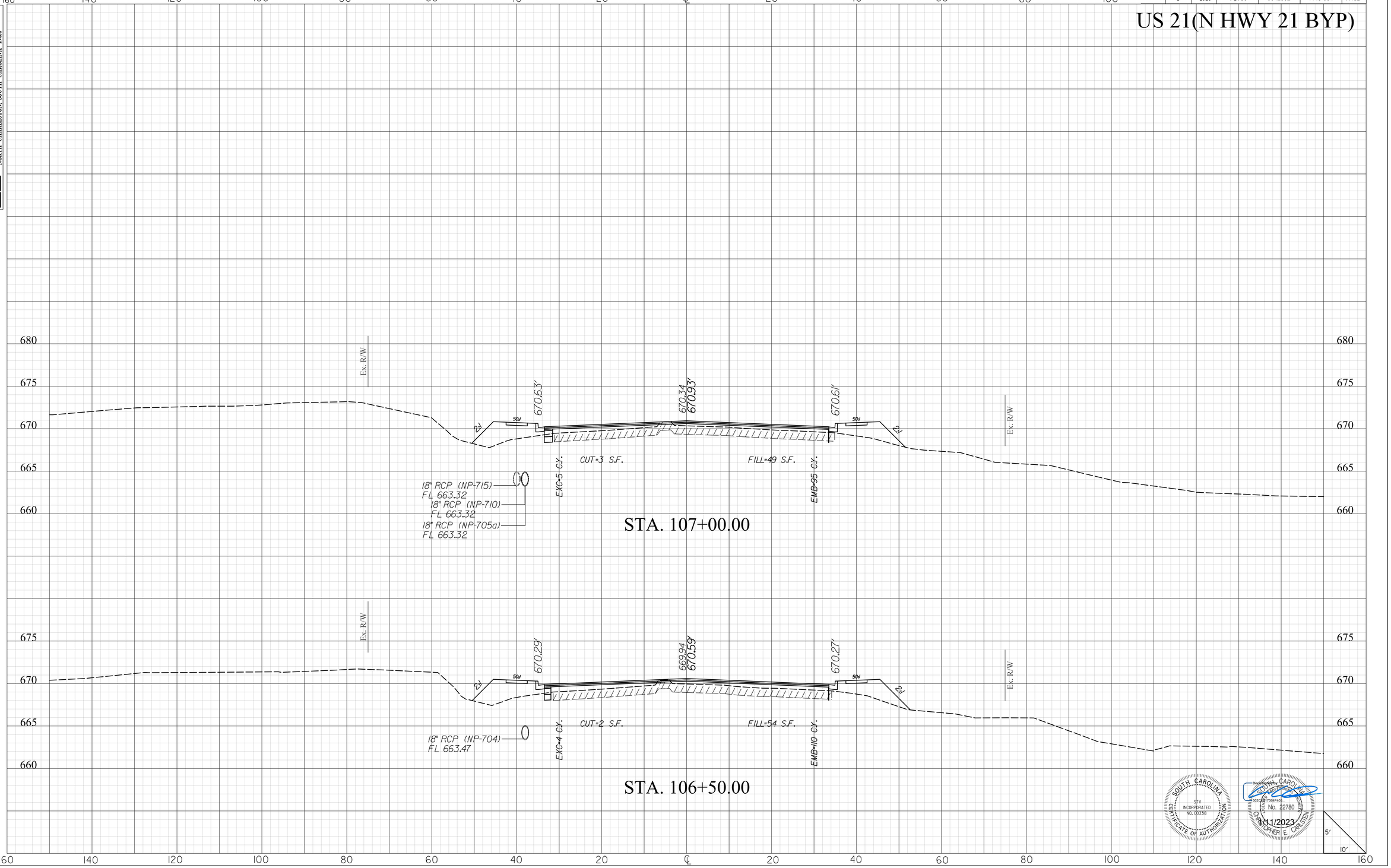
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X102

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN

1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X103

US 21(N HWY 21 BYP)

STA. 108+50.00

NEW R/W
Ex. R/W
RETAIL DR
670.81'
670.60
671.51'
S-641 (FLINT HILL RD)
18" RCP (NP-705a)
FL 662.86
EXC-14 C.Y.
CUT-14 S.F.
FILL-0 S.F.
EMB-0 C.Y.

STA. 108+00.00

NEW R/W
Ex. R/W
RETAIL DR
670.61
671.39'
S-641 (FLINT HILL RD)
Ex. R/W
18" RCP (NP-705a)
FL 663.01
EXC-4 C.Y.
CUT-1 S.F.
FILL-0 S.F.
EMB-35 C.Y.

STA. 107+50.00

Ex. R/W
670.89'
670.66
671.20'
670.87'
Ex. R/W
2:1
50'
18" RCP (NP-705a)
FL 663.17
EXC-6 C.Y.
CUT-4 S.F.
FILL-38 S.F.
EMB-80 C.Y.

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C00338

Digitally signed by CHRISTOPHER E CHRISTEN
No. 22780
1/11/2023

5'
10'

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1/10/2023

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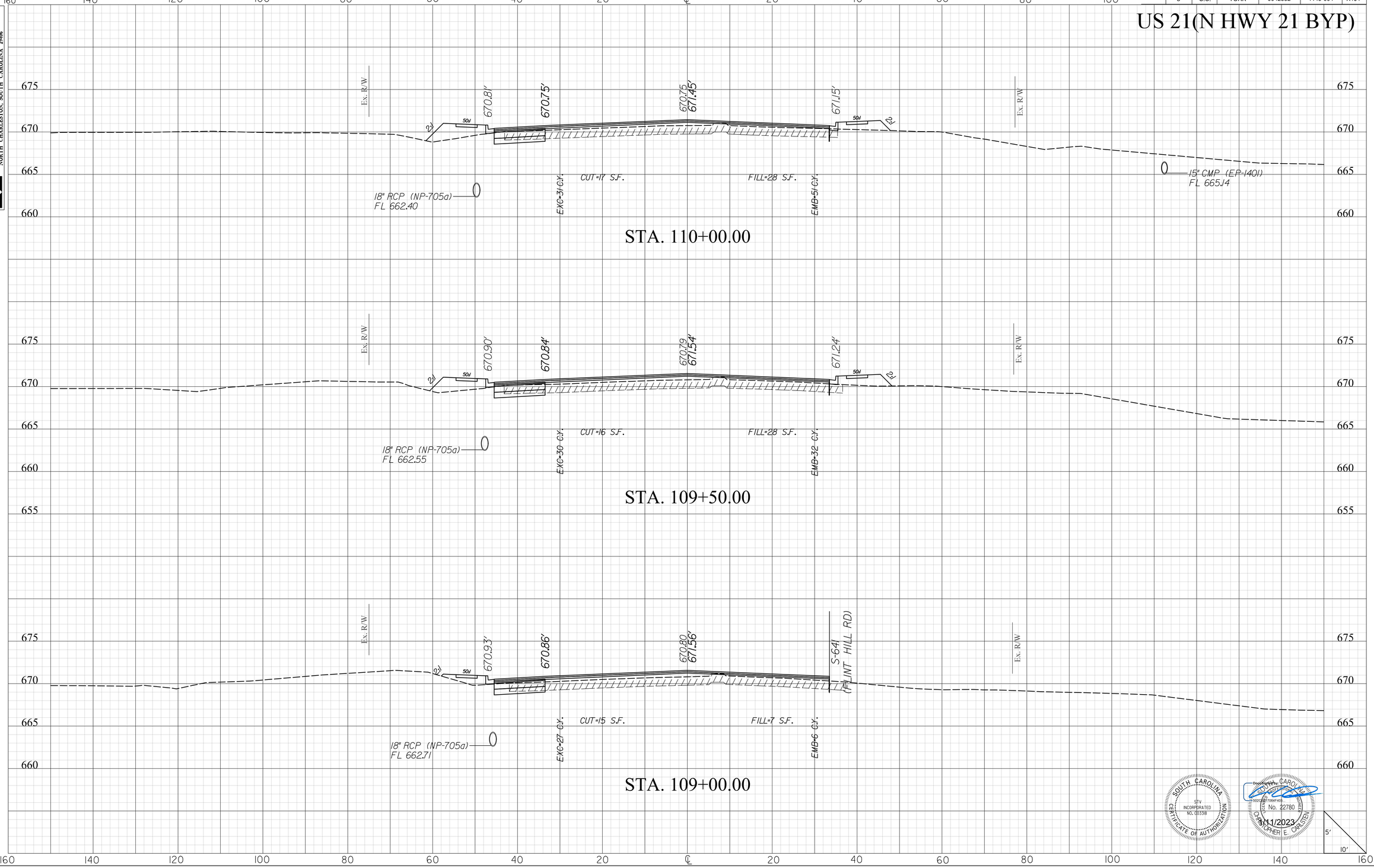
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X104

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 003318
CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA
DN: C=US, O=STV INCORPORATED, CN=SOUTH CAROLINA, OU=PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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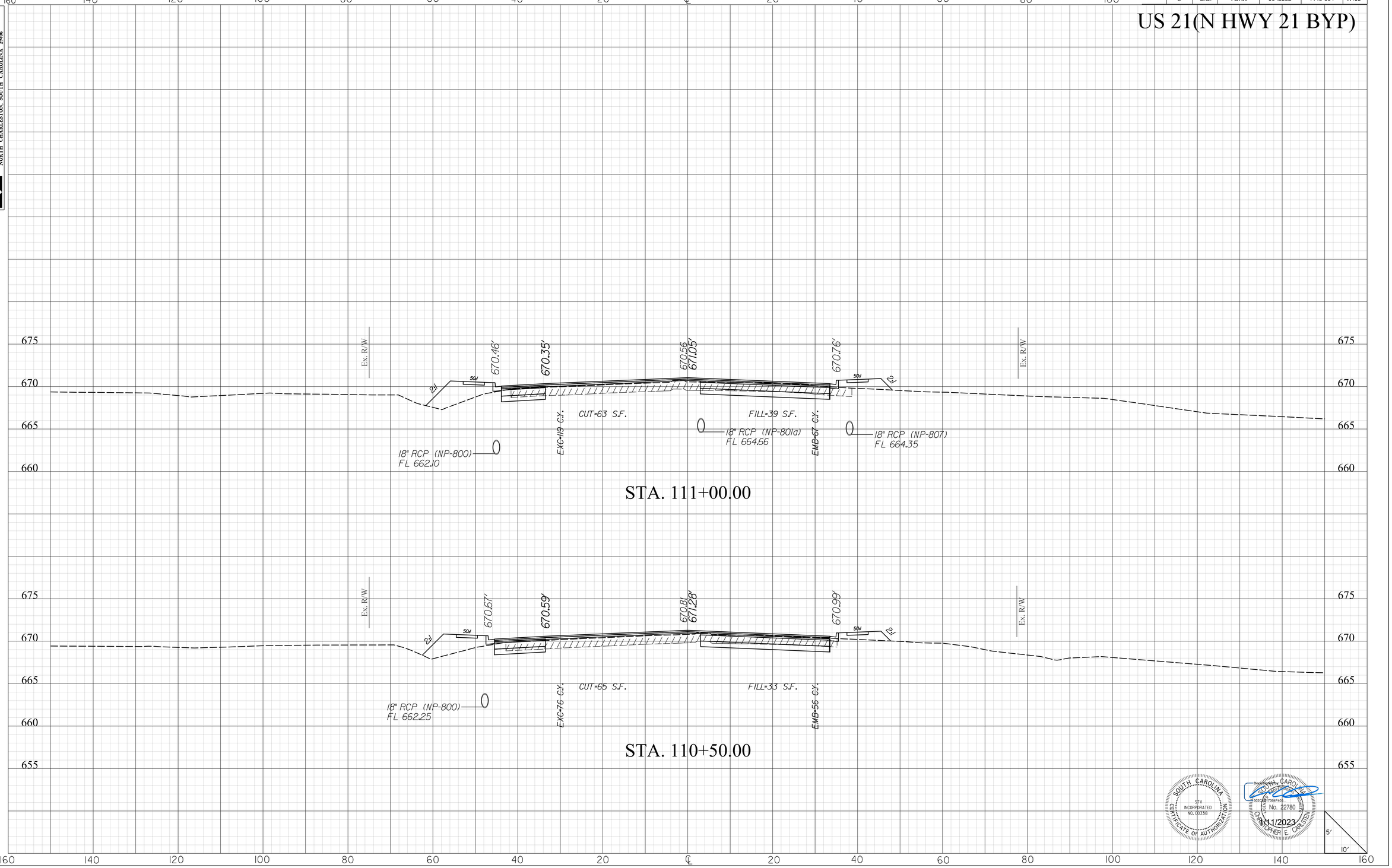
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X105

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Document Name: SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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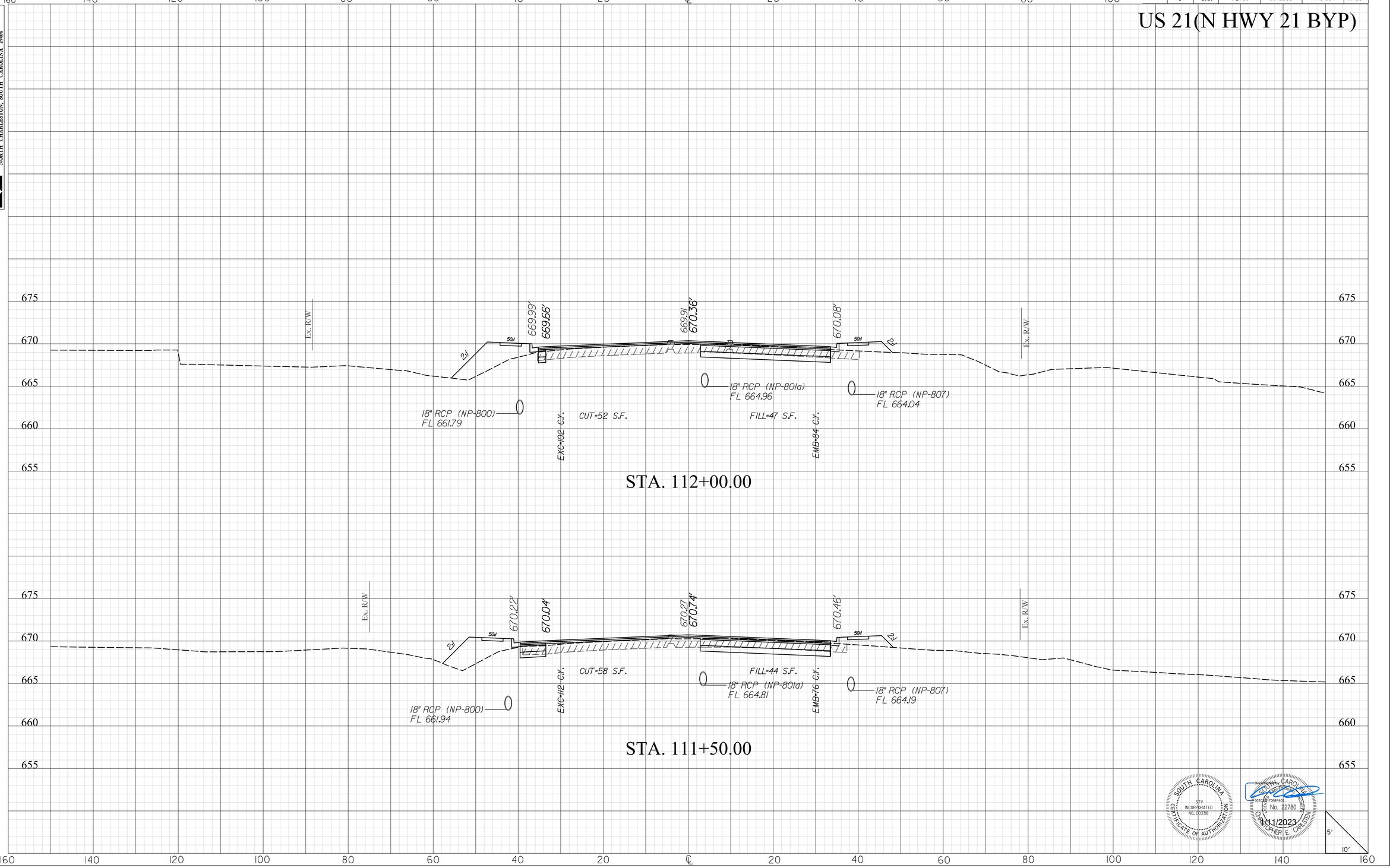
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X106

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

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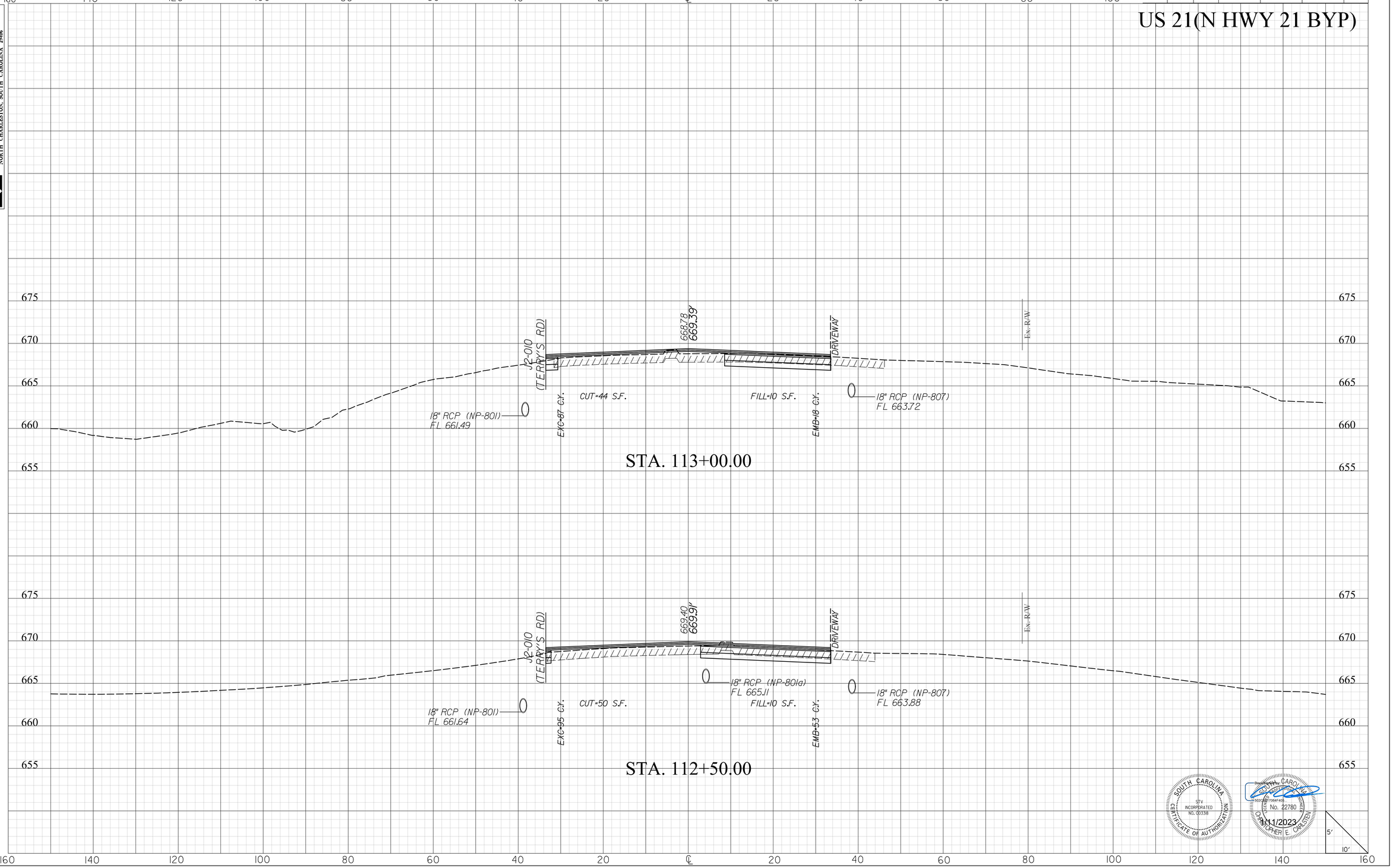
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X107

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

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1/10/2023

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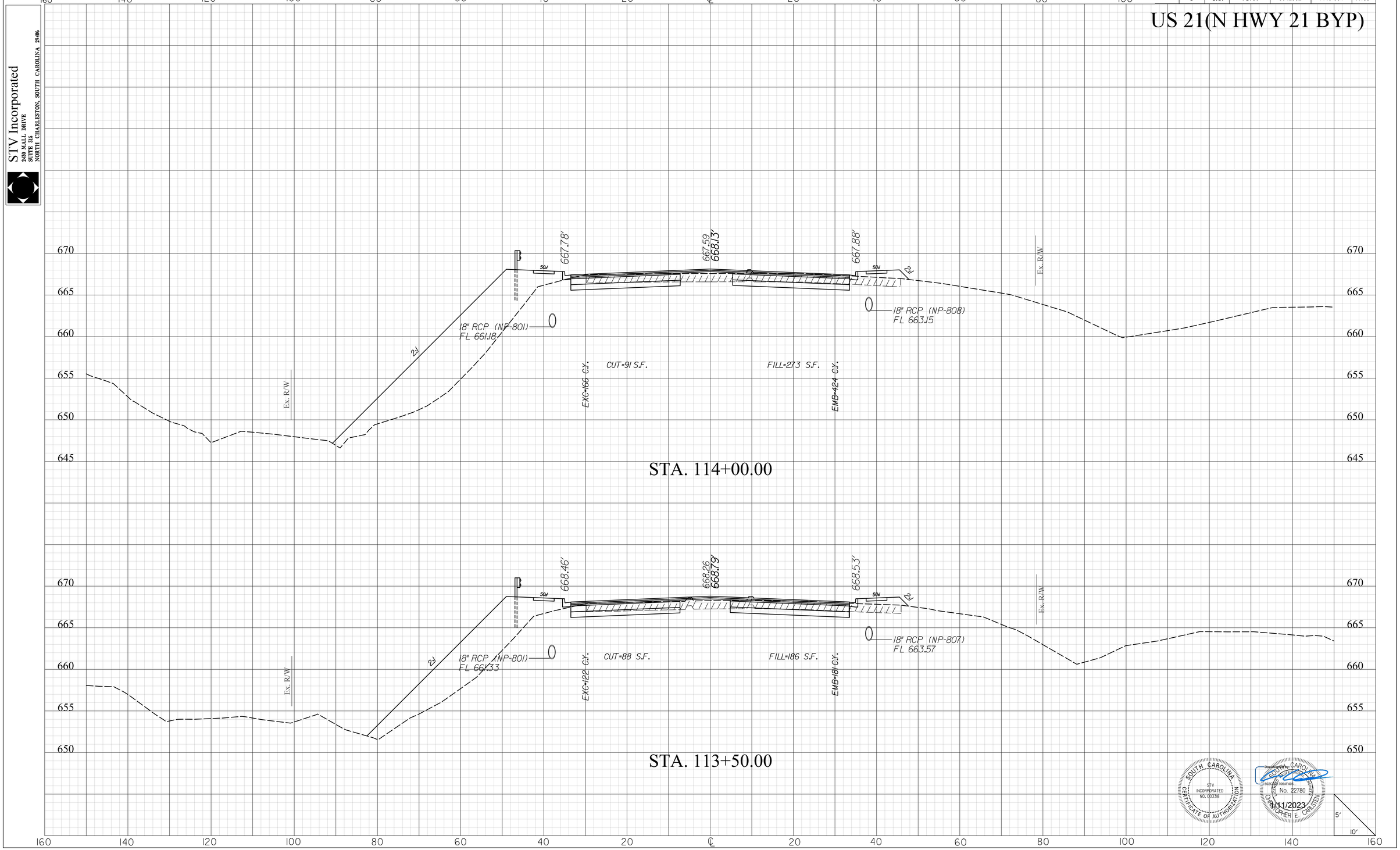
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X108

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

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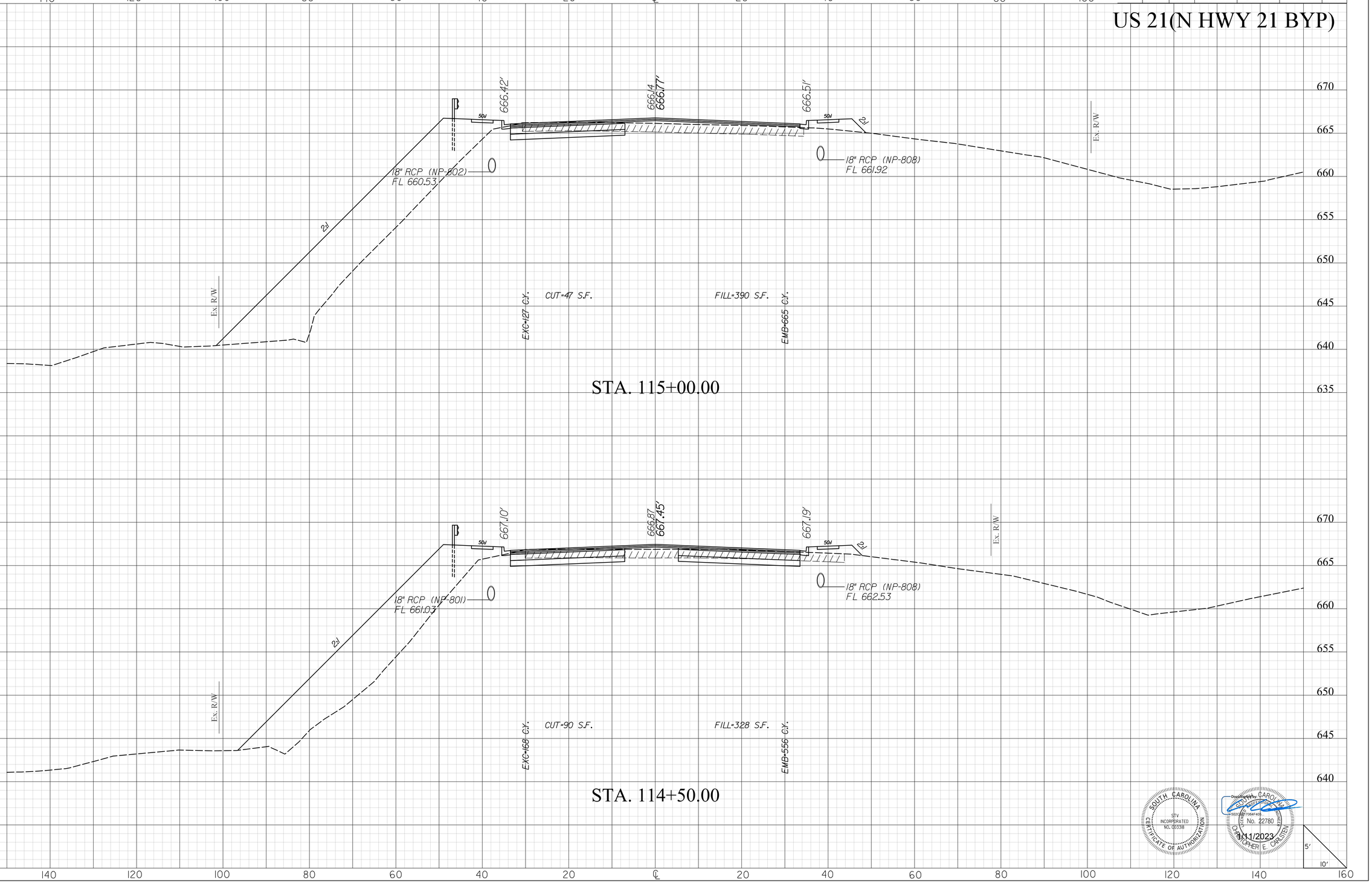
3	S.C.	YORK	0042332	1149-004	X109

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C00338

DocuSigned by: SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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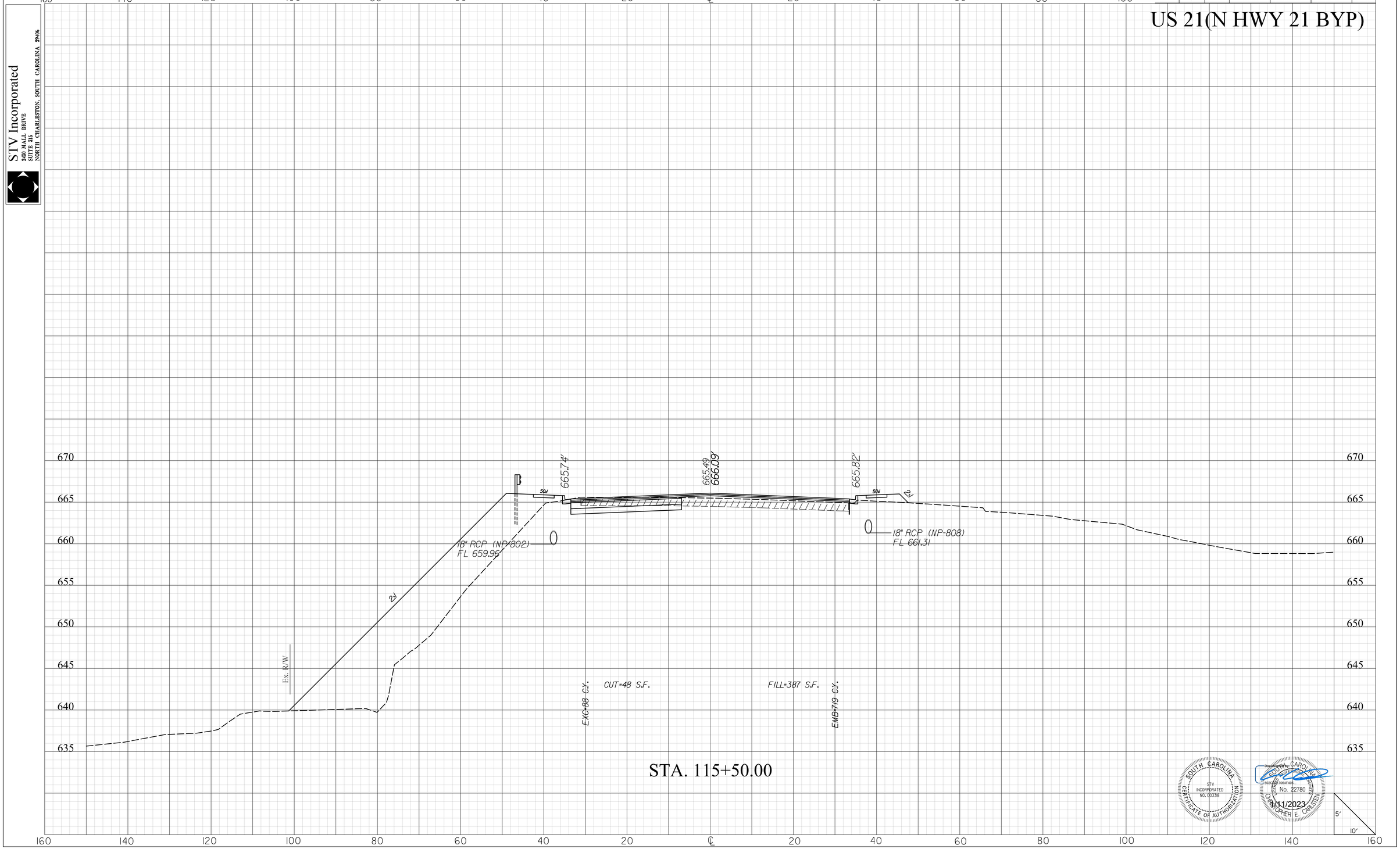
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X110

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
1/11/2023

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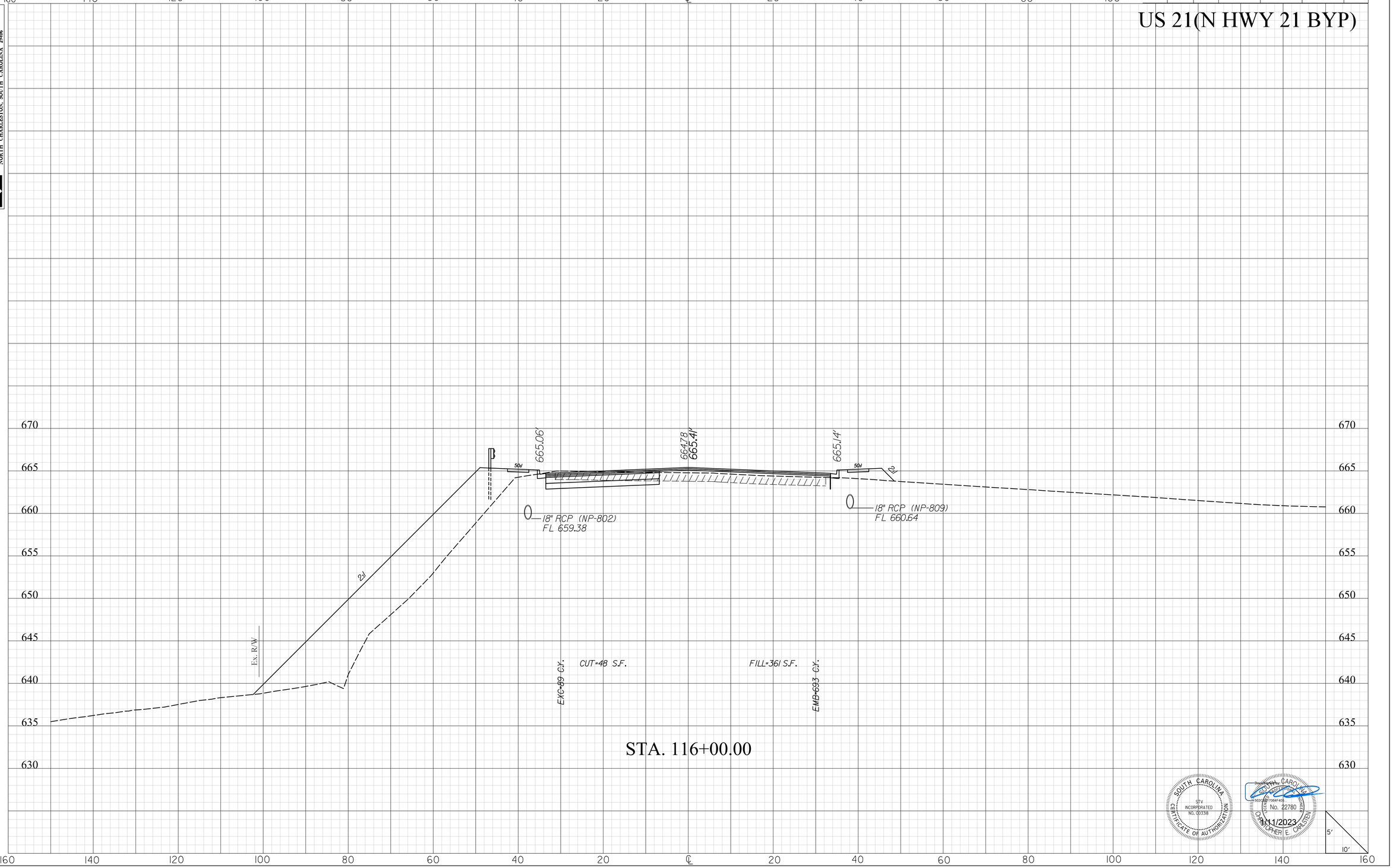
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X111

US 21(N HWY 21 BYP)



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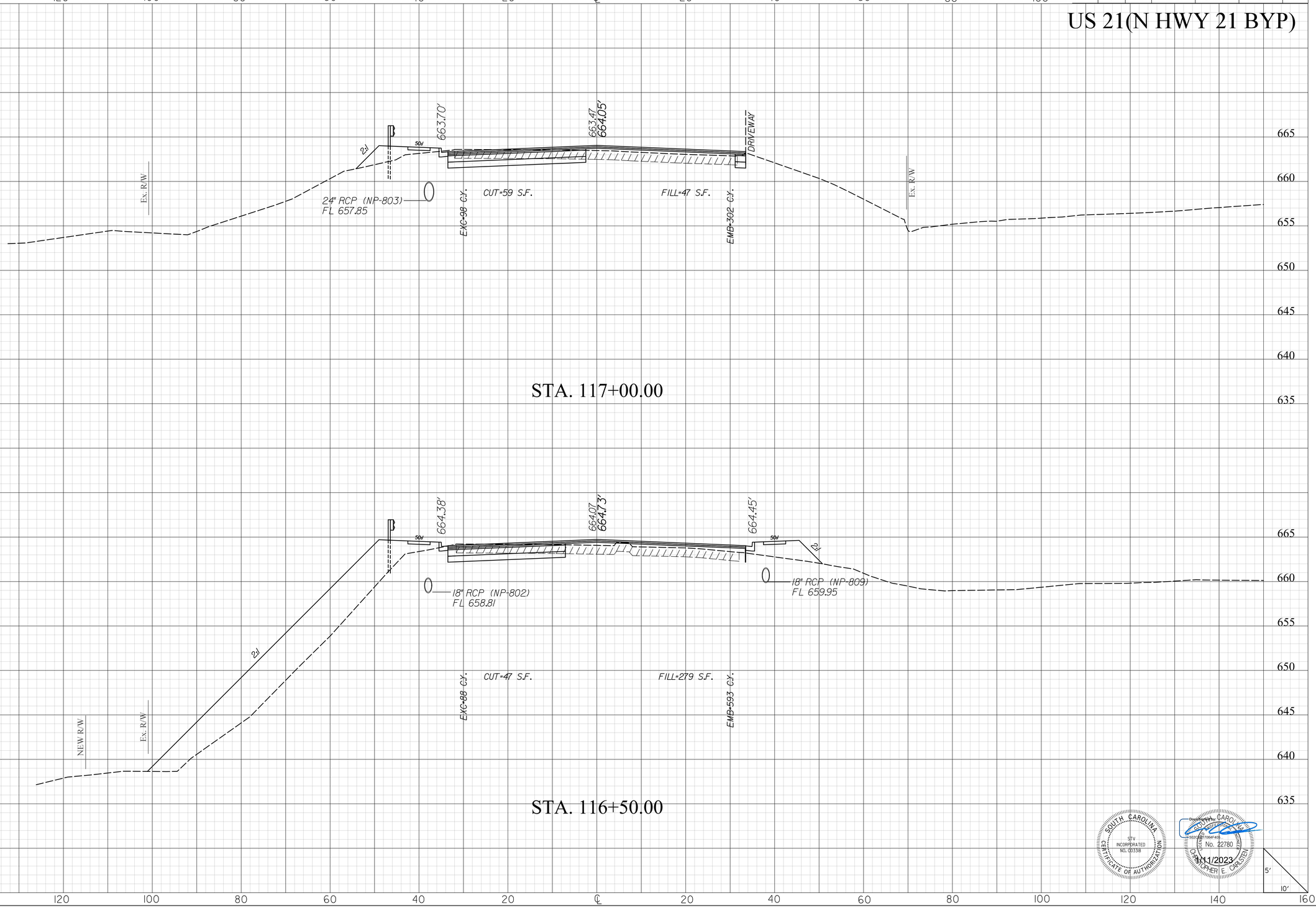
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X112

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

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No. 22780
1/11/2023

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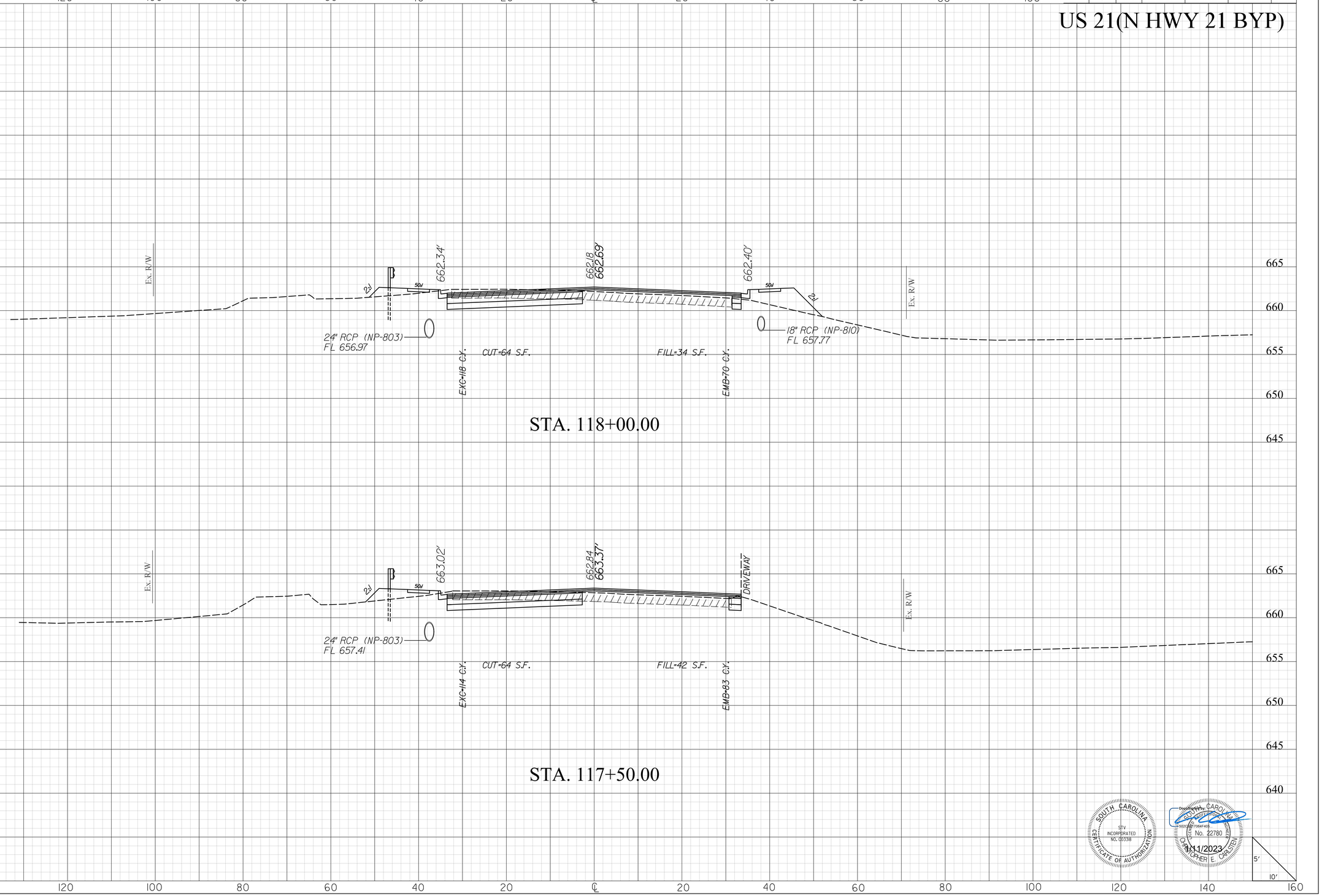
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X113

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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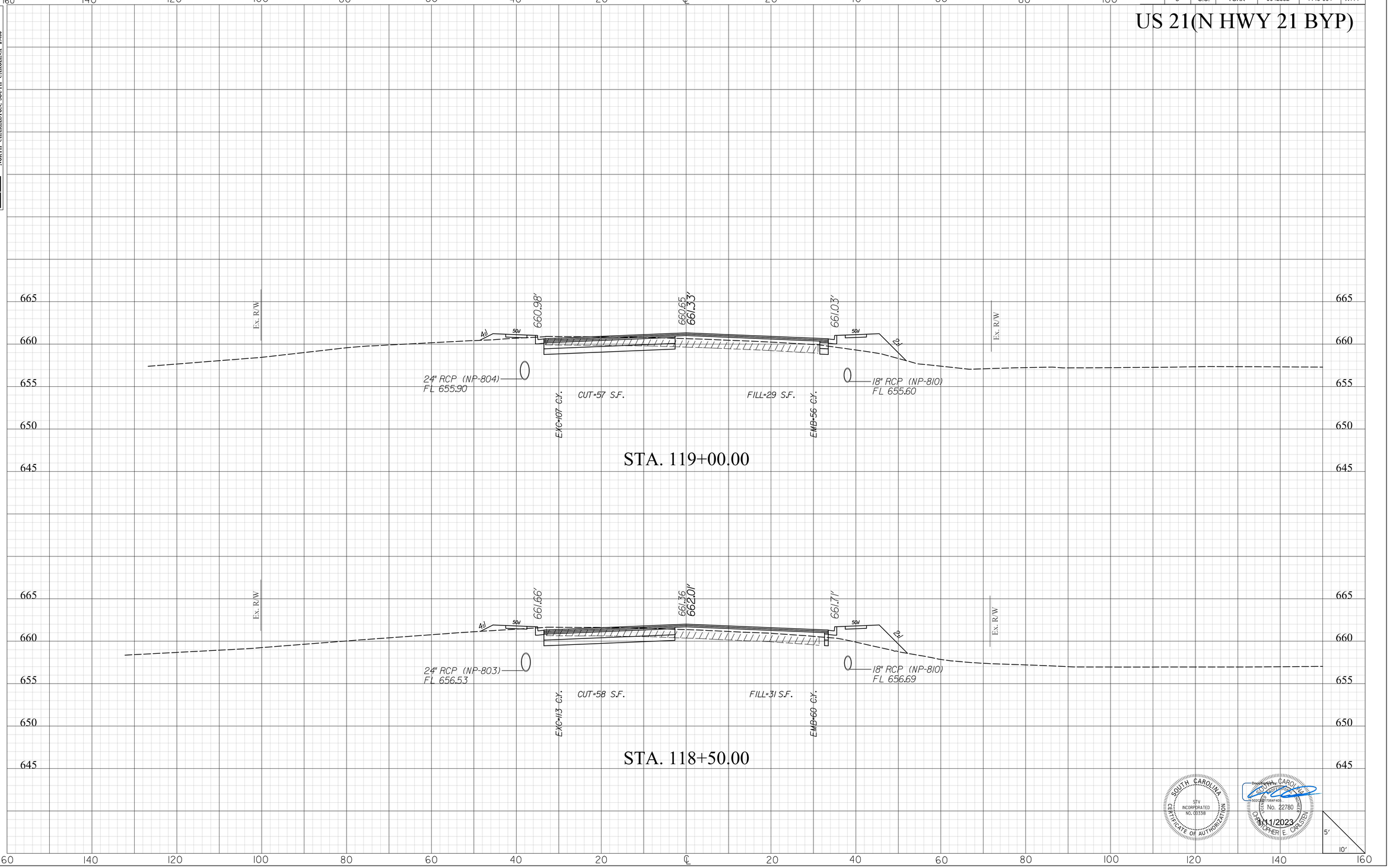
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X114

US 21(N HWY 21 BYP)



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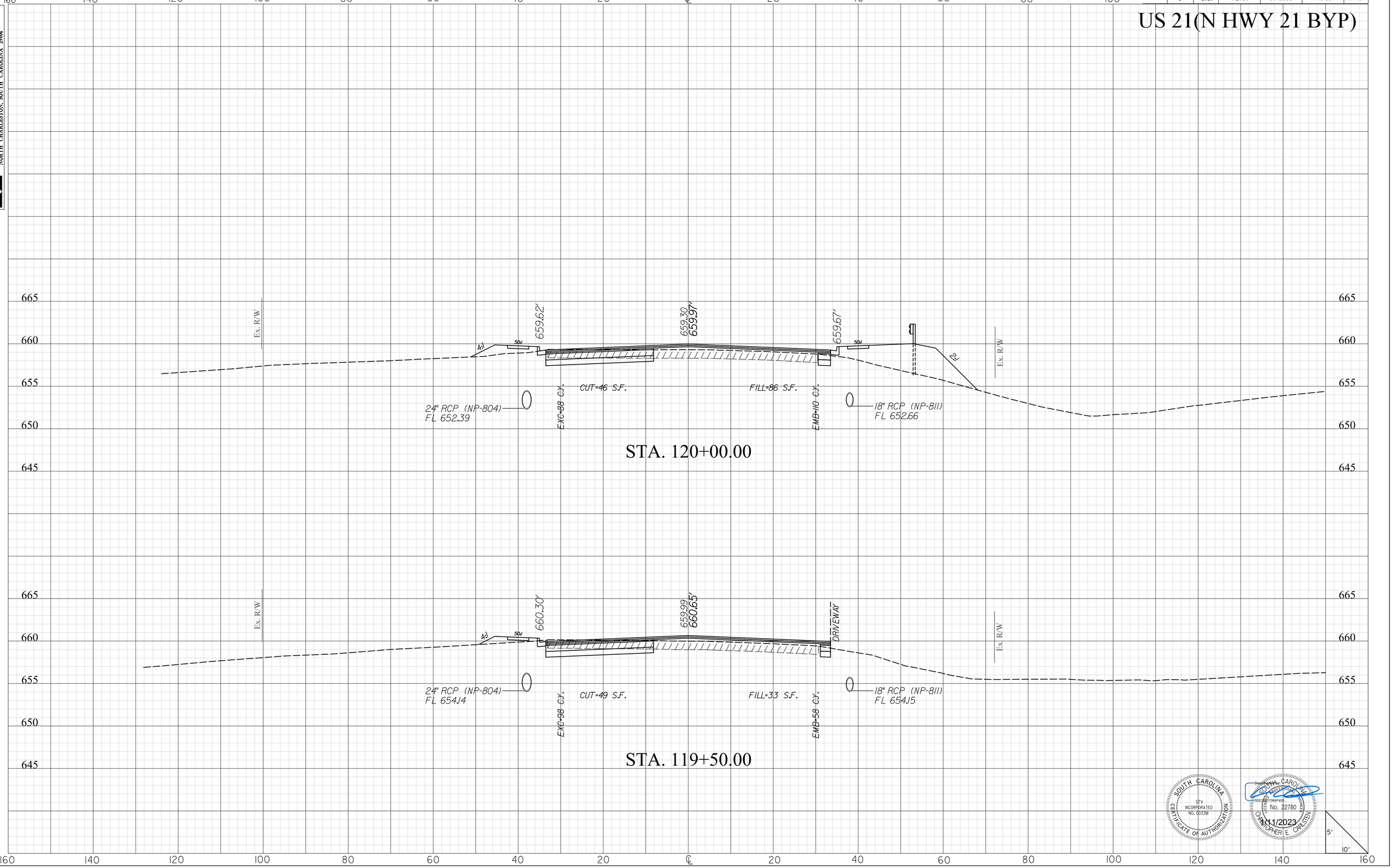
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X115

US 21(N HWY 21 BYP)



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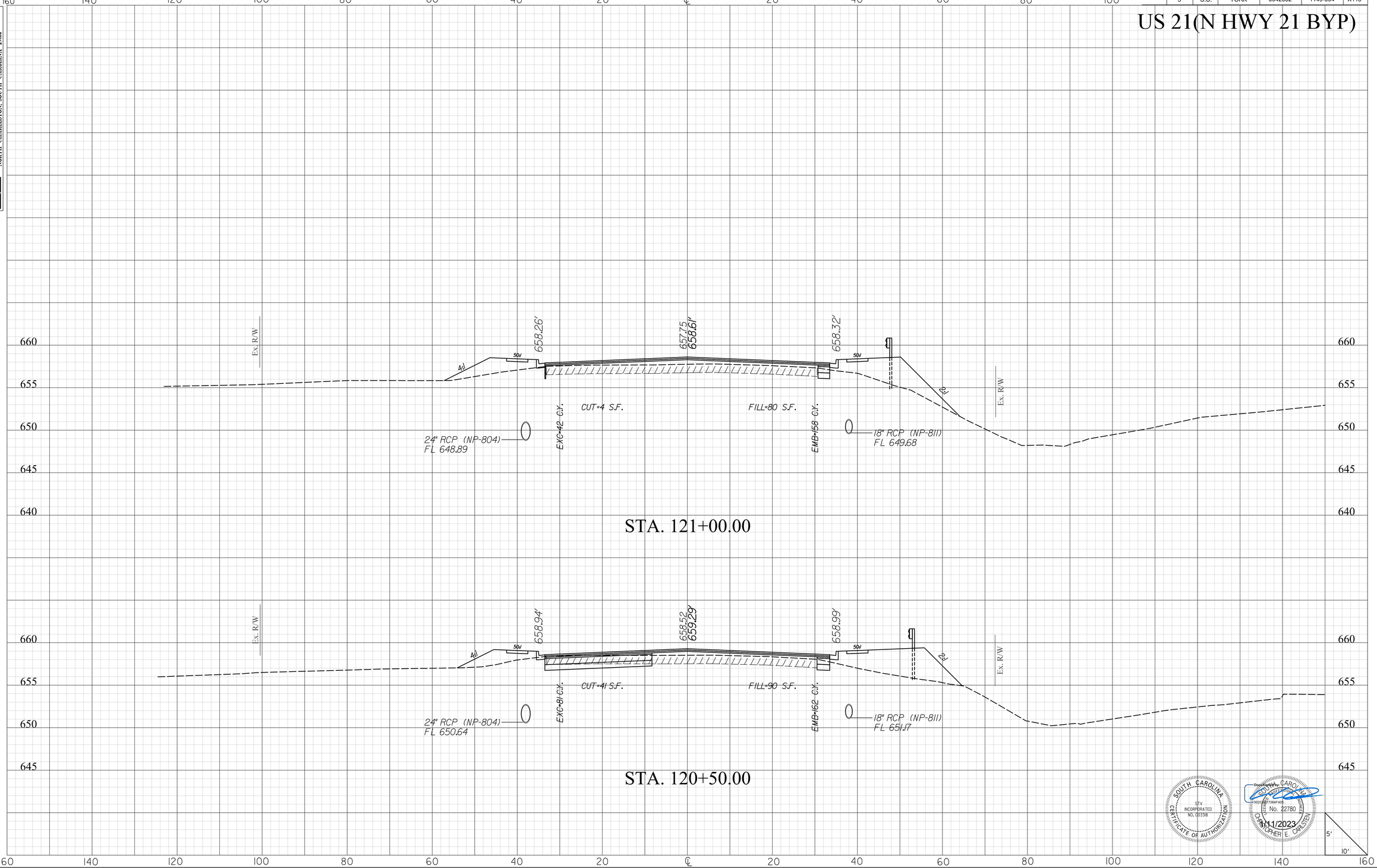
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X116

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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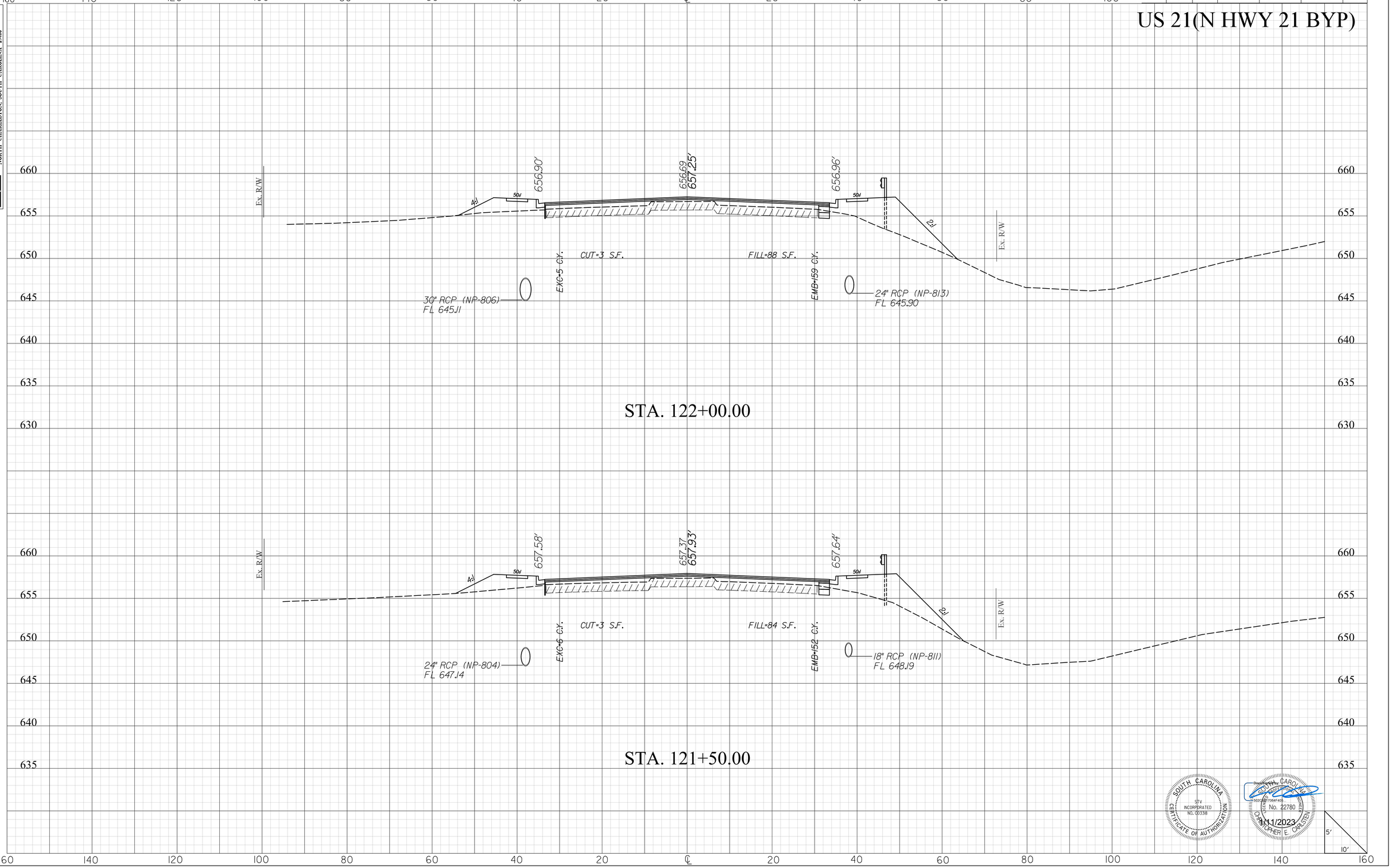
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X117

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA STEVENS & WILKINSON INC. No. 22780 CHRISTOPHER E. CARLSTEN
1/11/2023

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STV Incorporated
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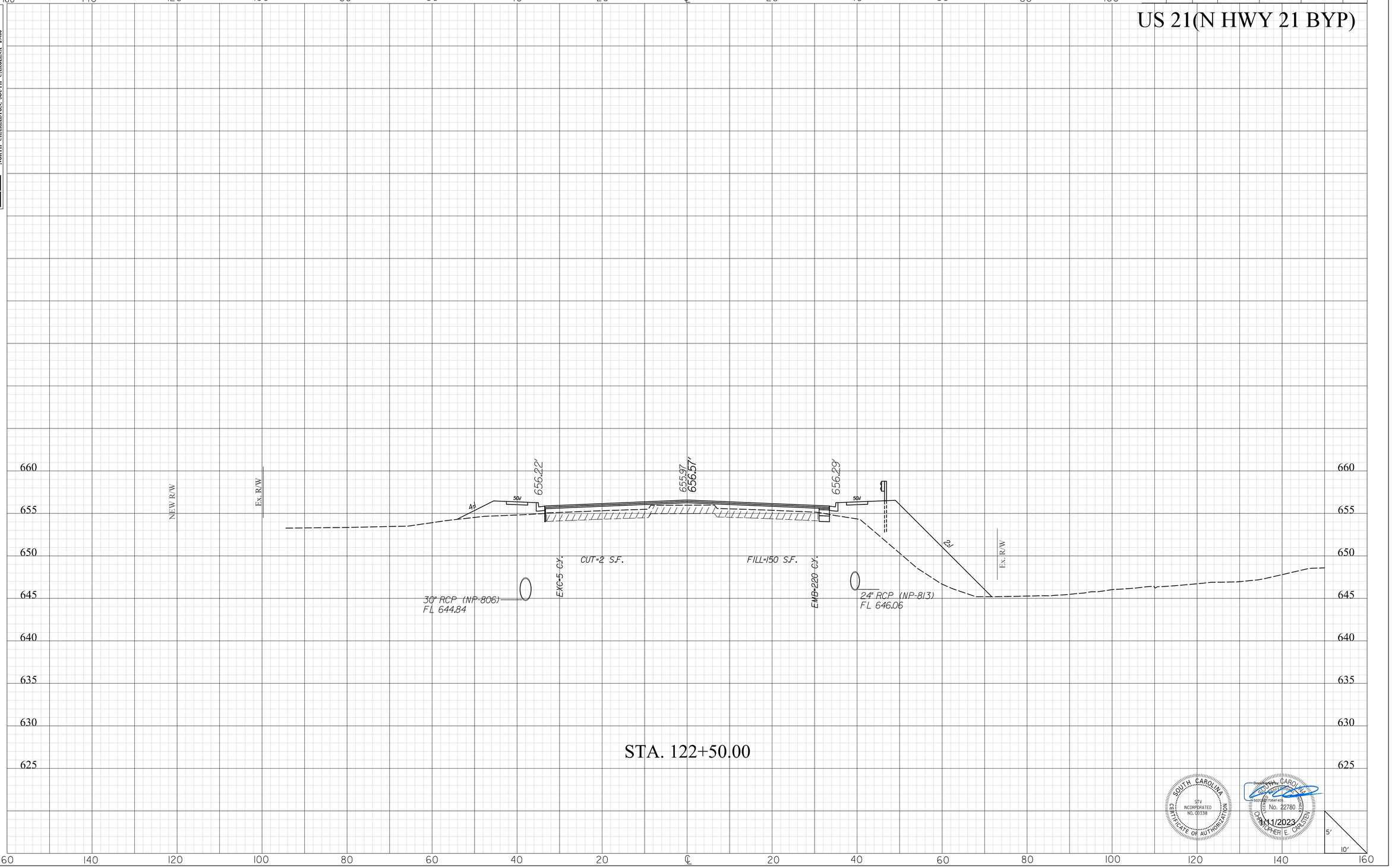
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X118

US 21(N HWY 21 BYP)



STA. 122+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSTEN
1/11/2023

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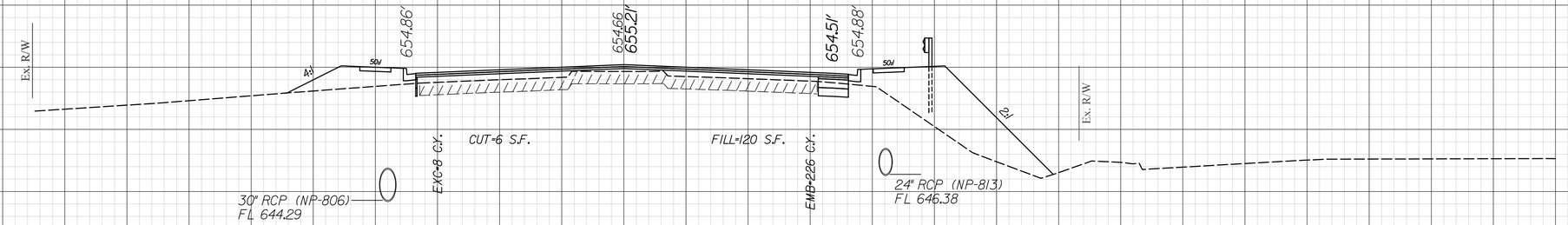
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X119

US 21(N HWY 21 BYP)



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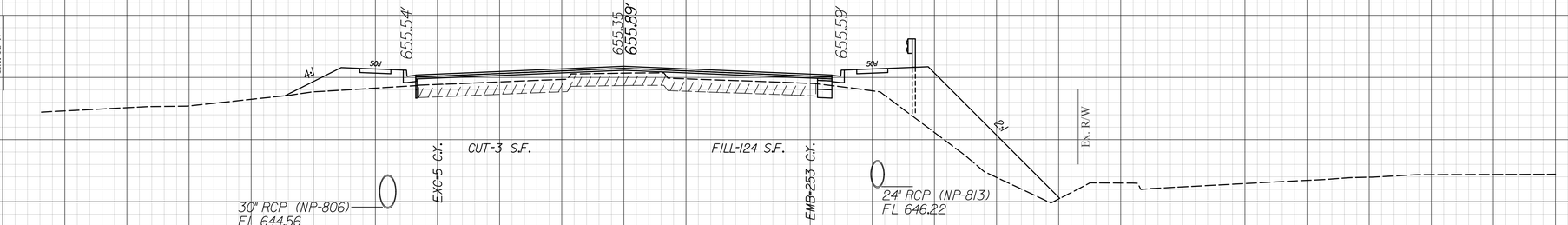

STA. 123+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
1/11/2023

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10'

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1/10/2023

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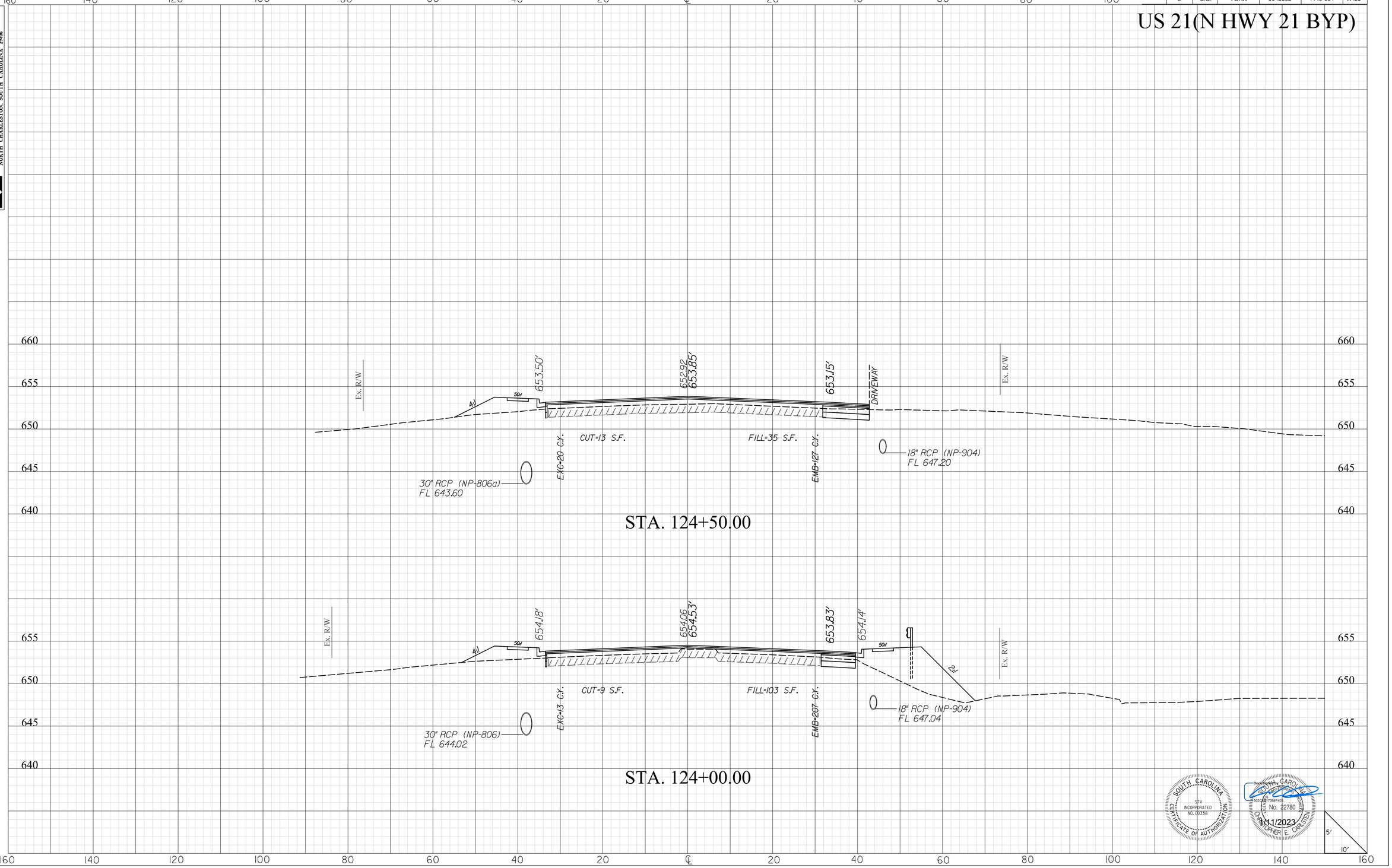
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X120

US 21(N HWY 21 BYP)



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1/10/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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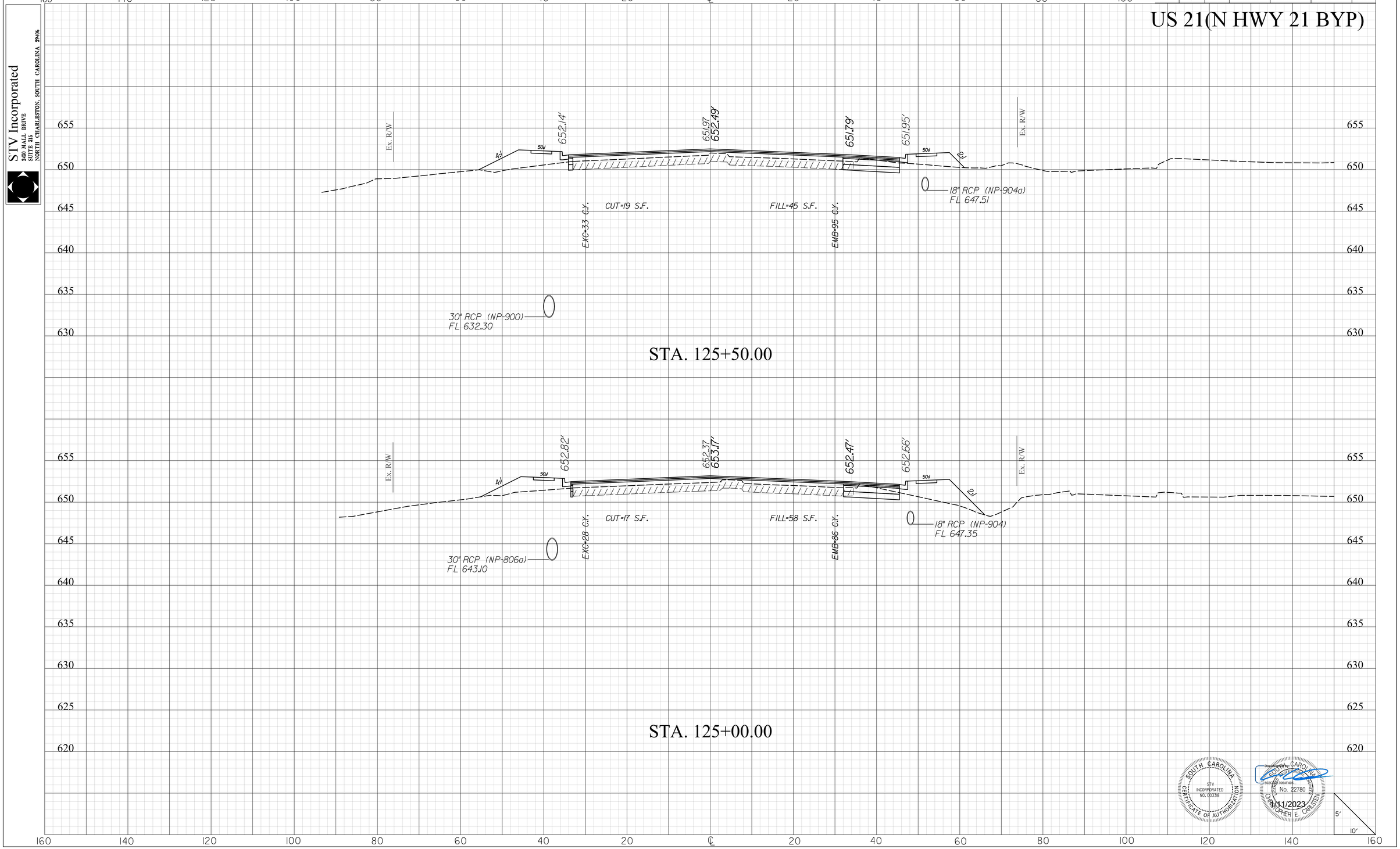
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by: CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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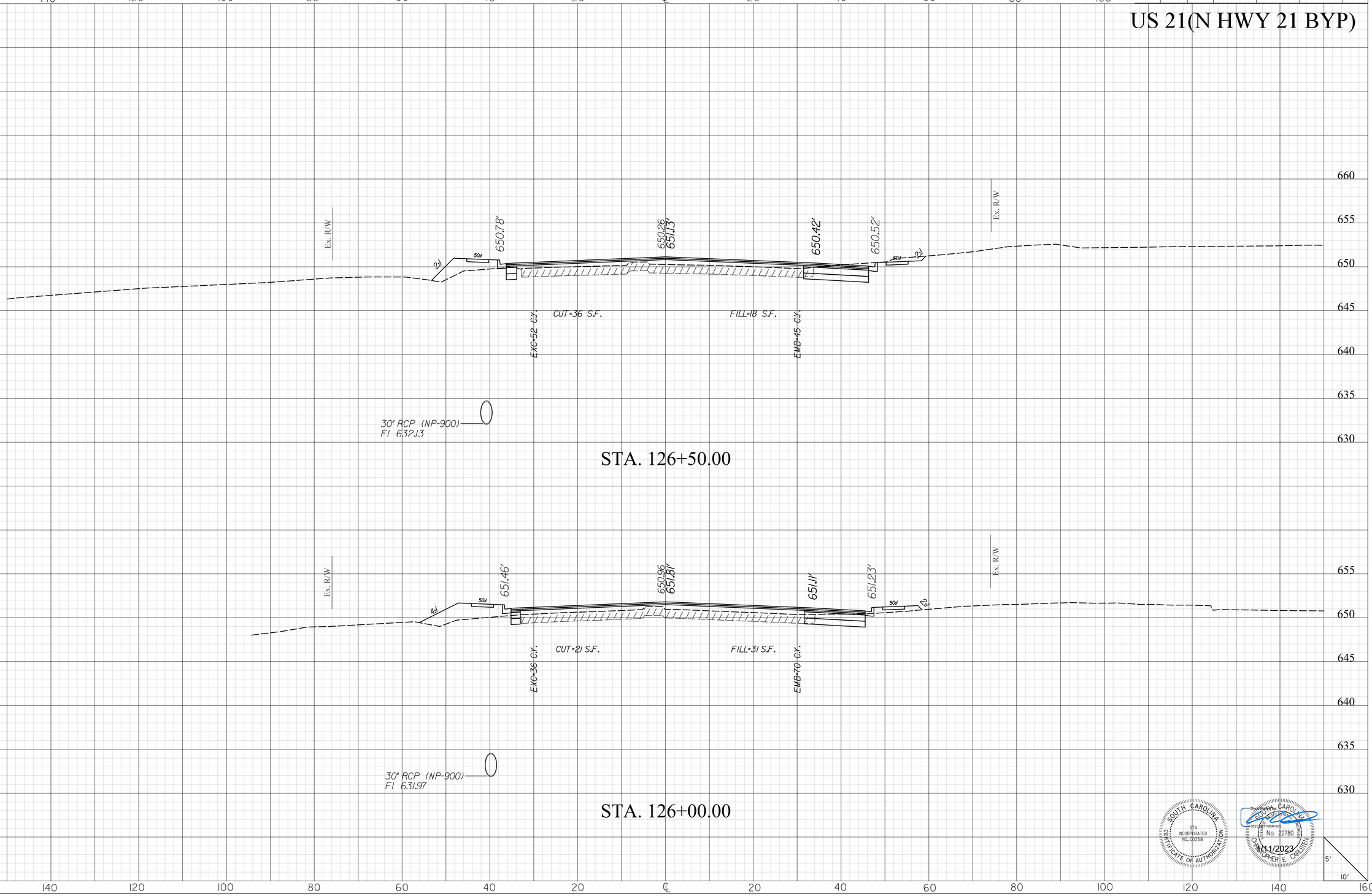
US 21(N HWY 21 BYP)



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STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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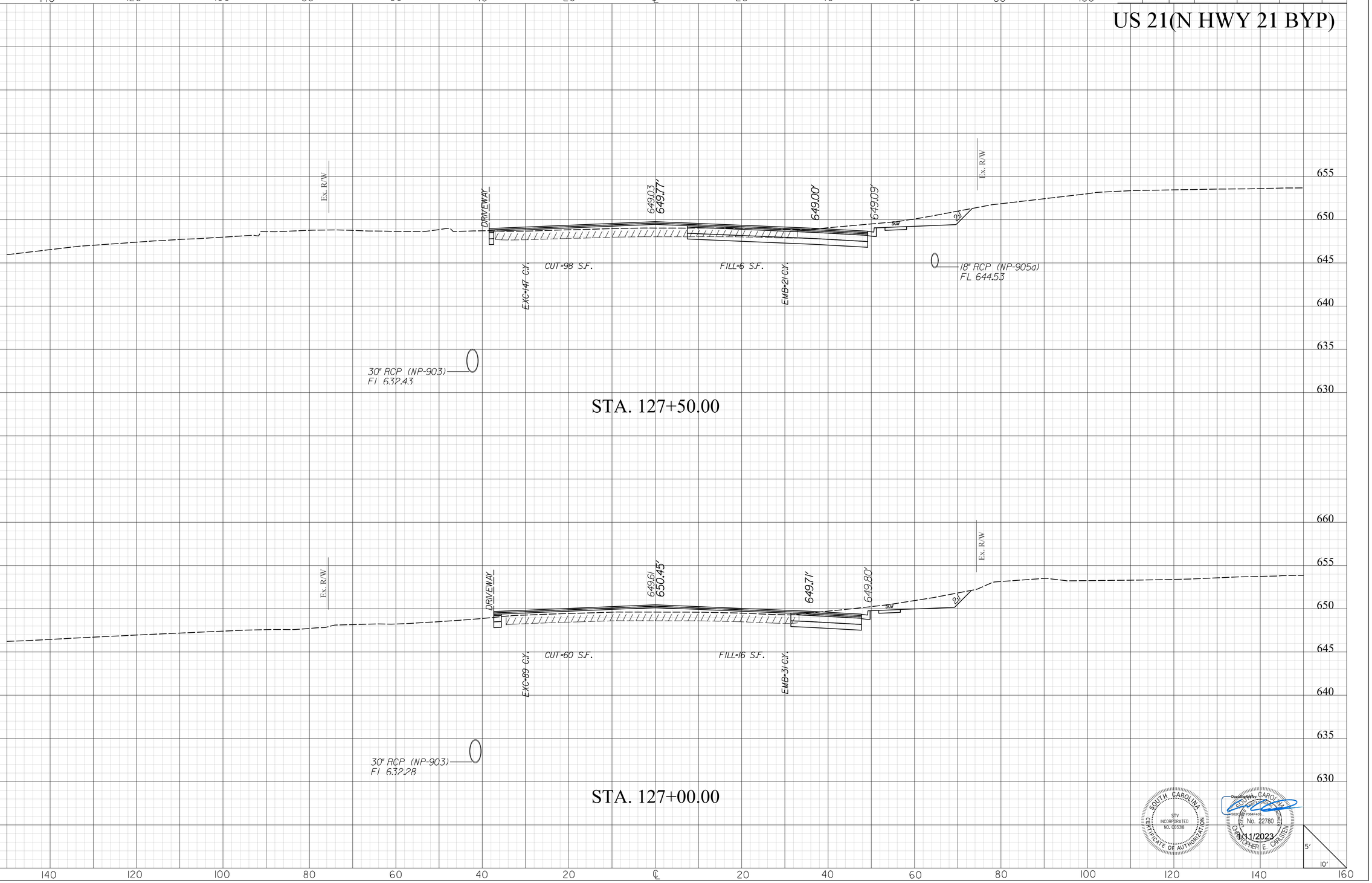
US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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1/10/2023

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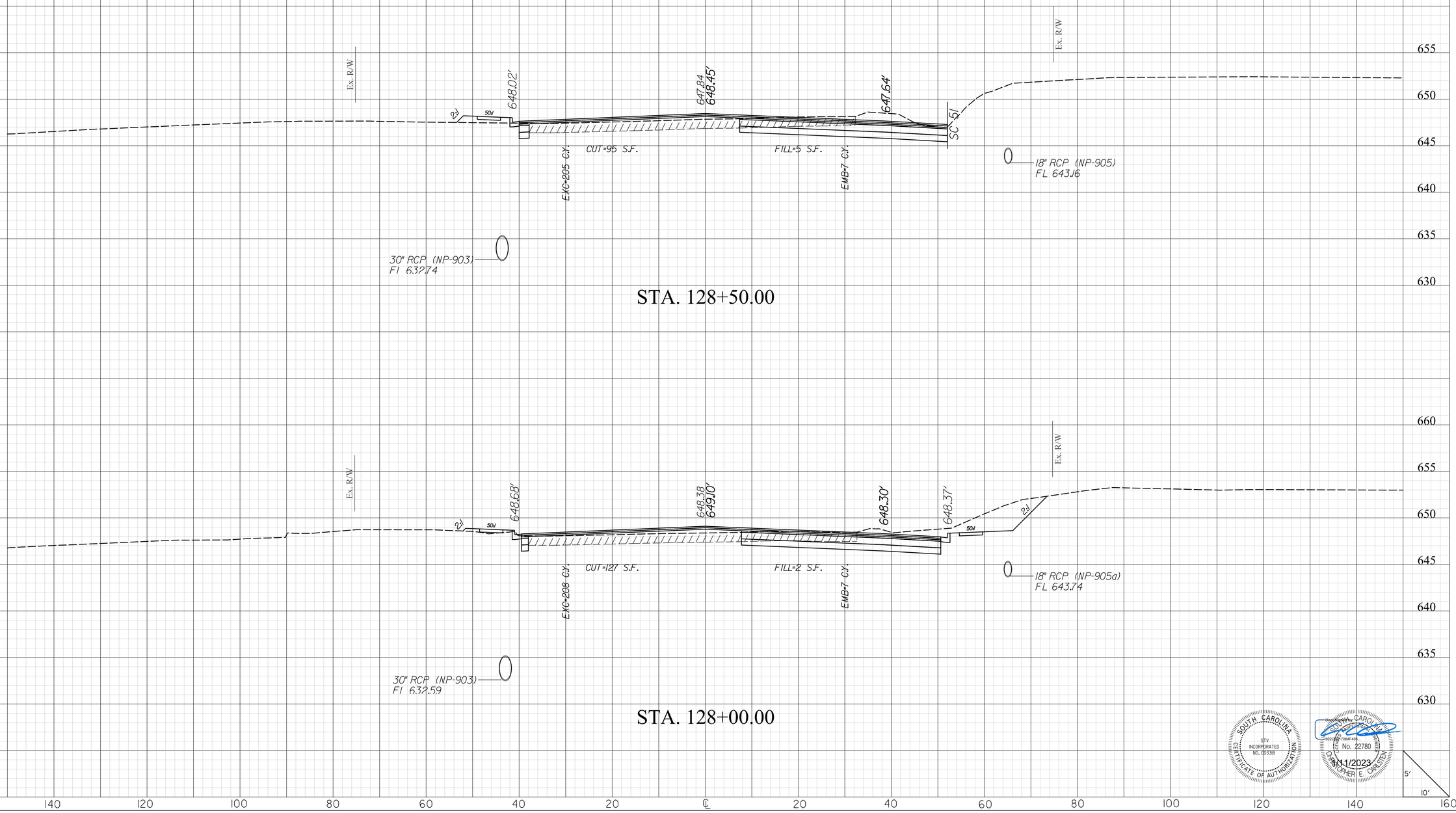
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X124

US 21(N HWY 21 BYP)



SOUTH CAROLINA
STV INCORPORATED
NO. 00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARLSTEN
1/11/2023

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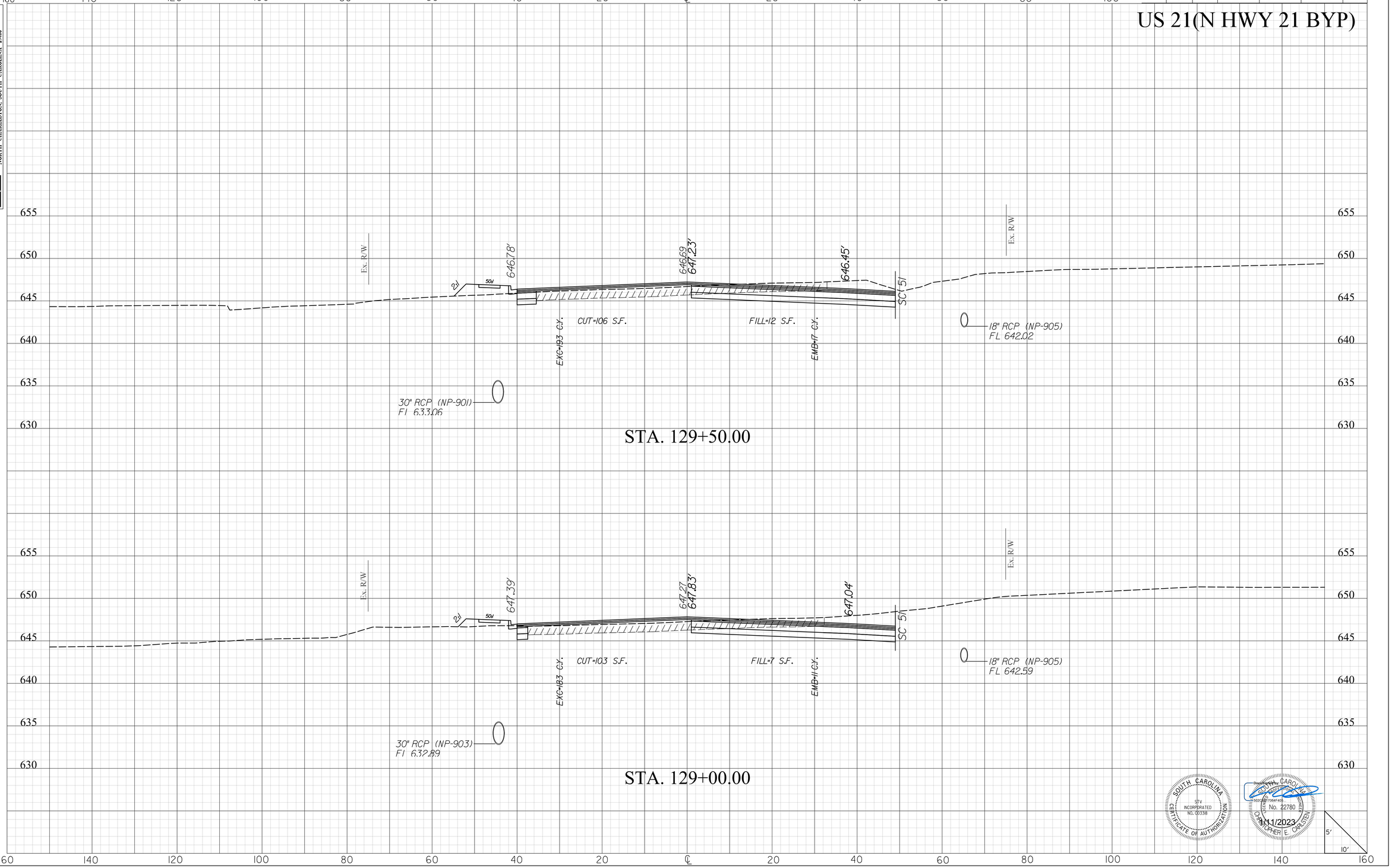
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X125

US 21(N HWY 21 BYP)



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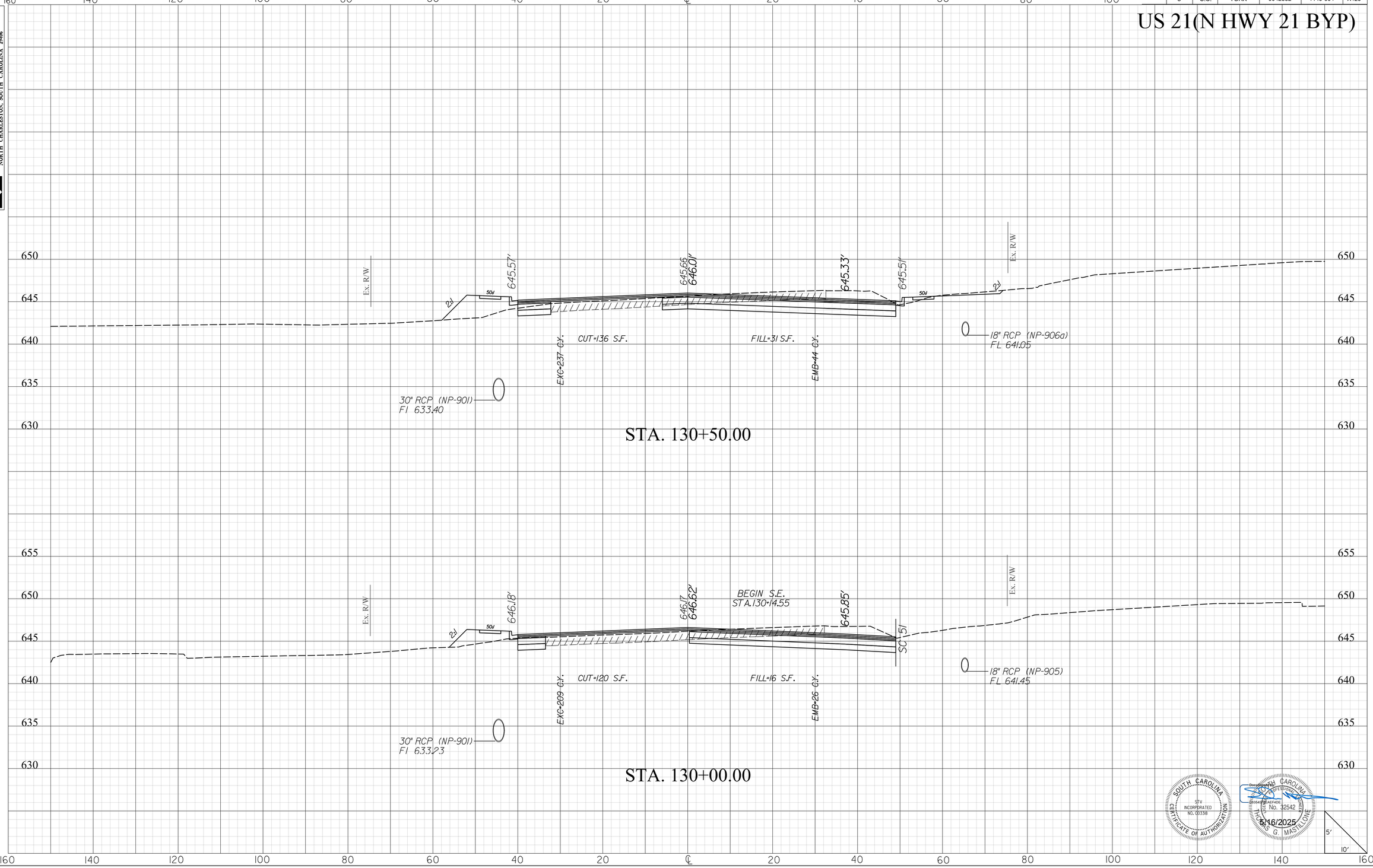
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X126

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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5/9/2025

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 32542 THOMAS G. MASTILLONE

5/16/2025

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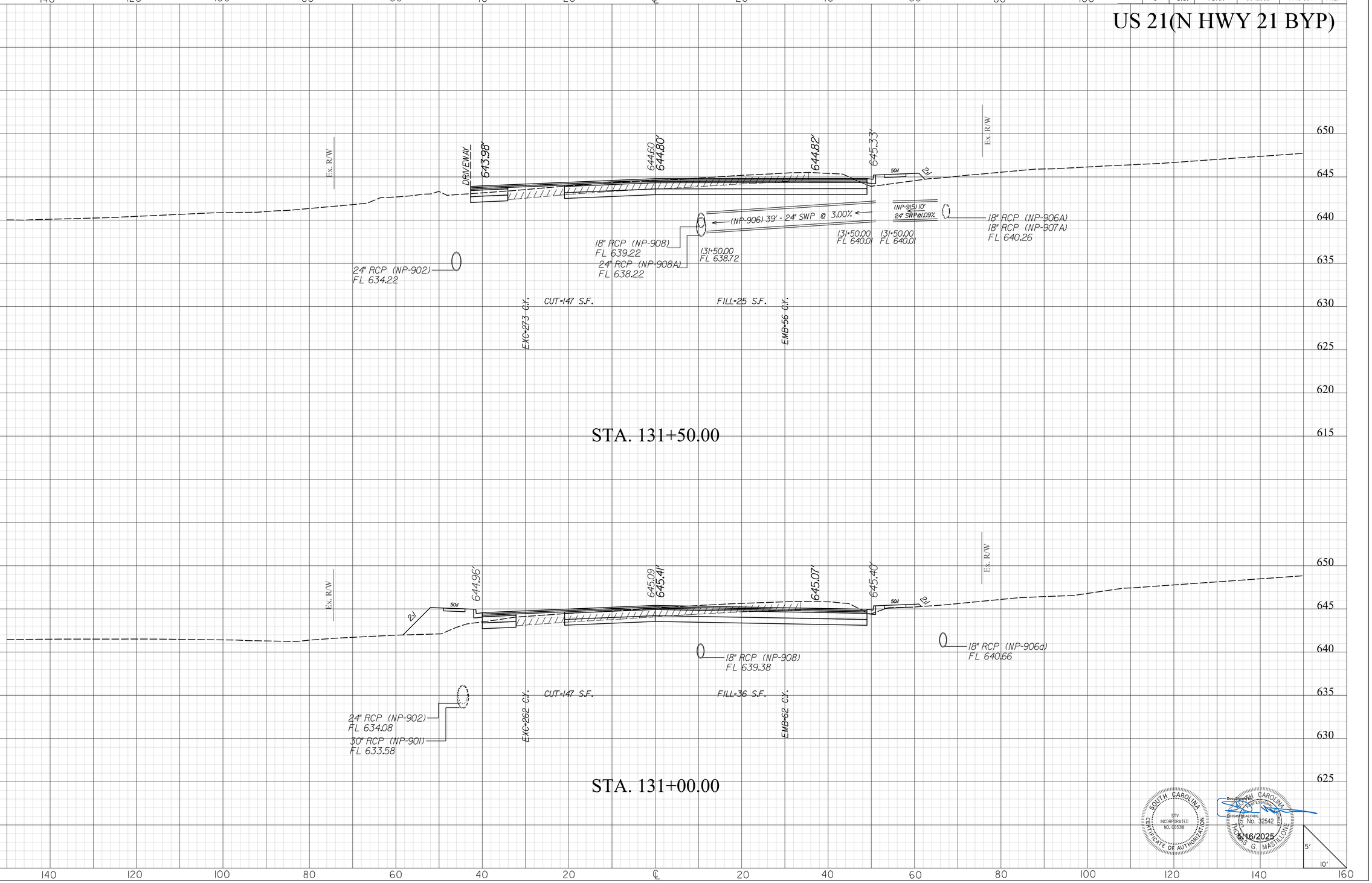
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X127

US 21(N HWY 21 BYP)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 32542
THOMAS G. MASTILLONE
5/16/2025

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5/9/2025

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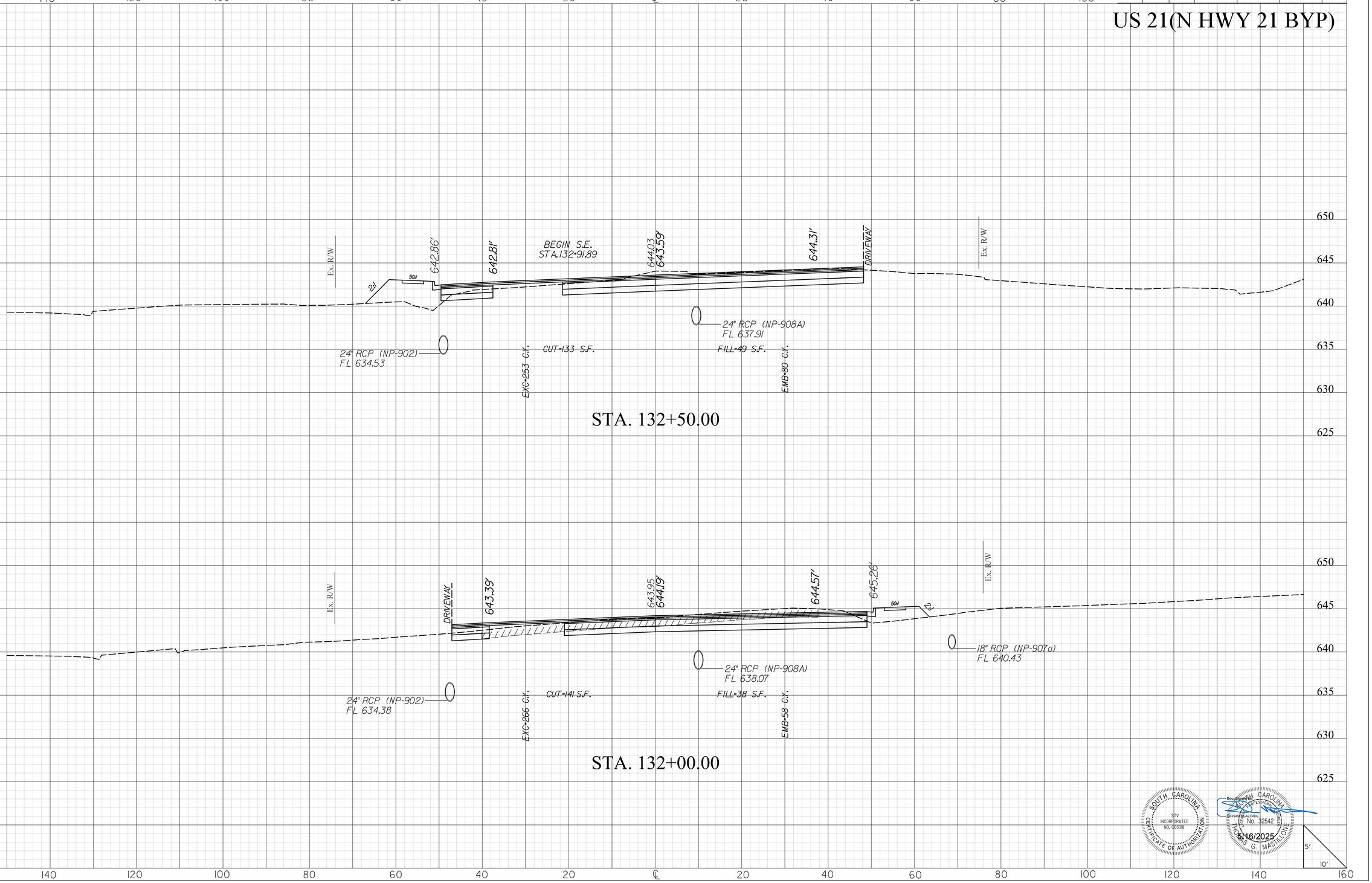
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X128

US 21(N HWY 21 BYP)

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION
NO. C03138

SOUTH CAROLINA
THOMAS G MASTALONE
No. 32542
PROFESSIONAL ENGINEER
5/16/2025

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X129

US 21(N HWY 21 BYP)

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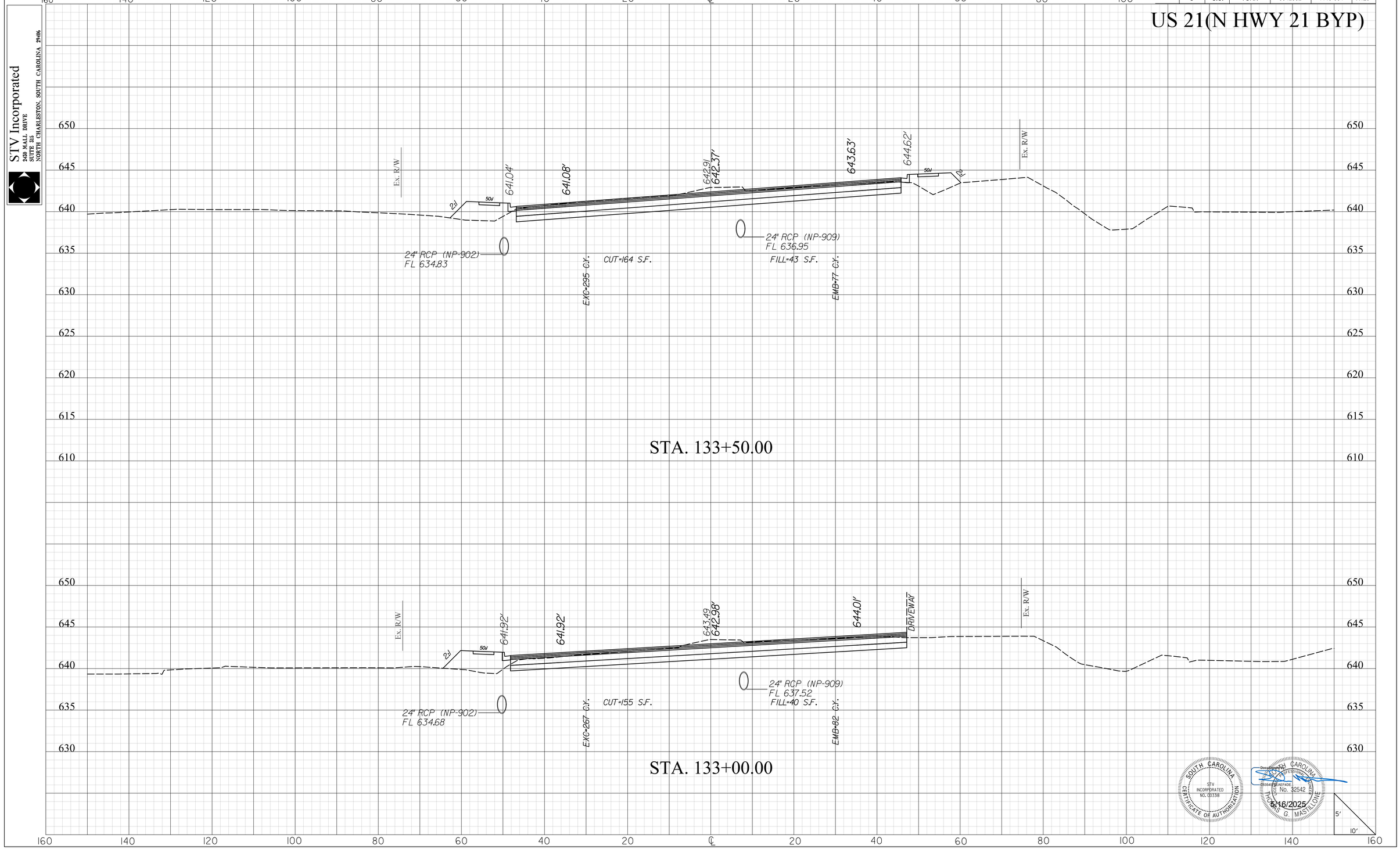
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA PROFESSIONAL ENGINEER No. 32542 THOMAS G. MASTILLONE 5/16/2025

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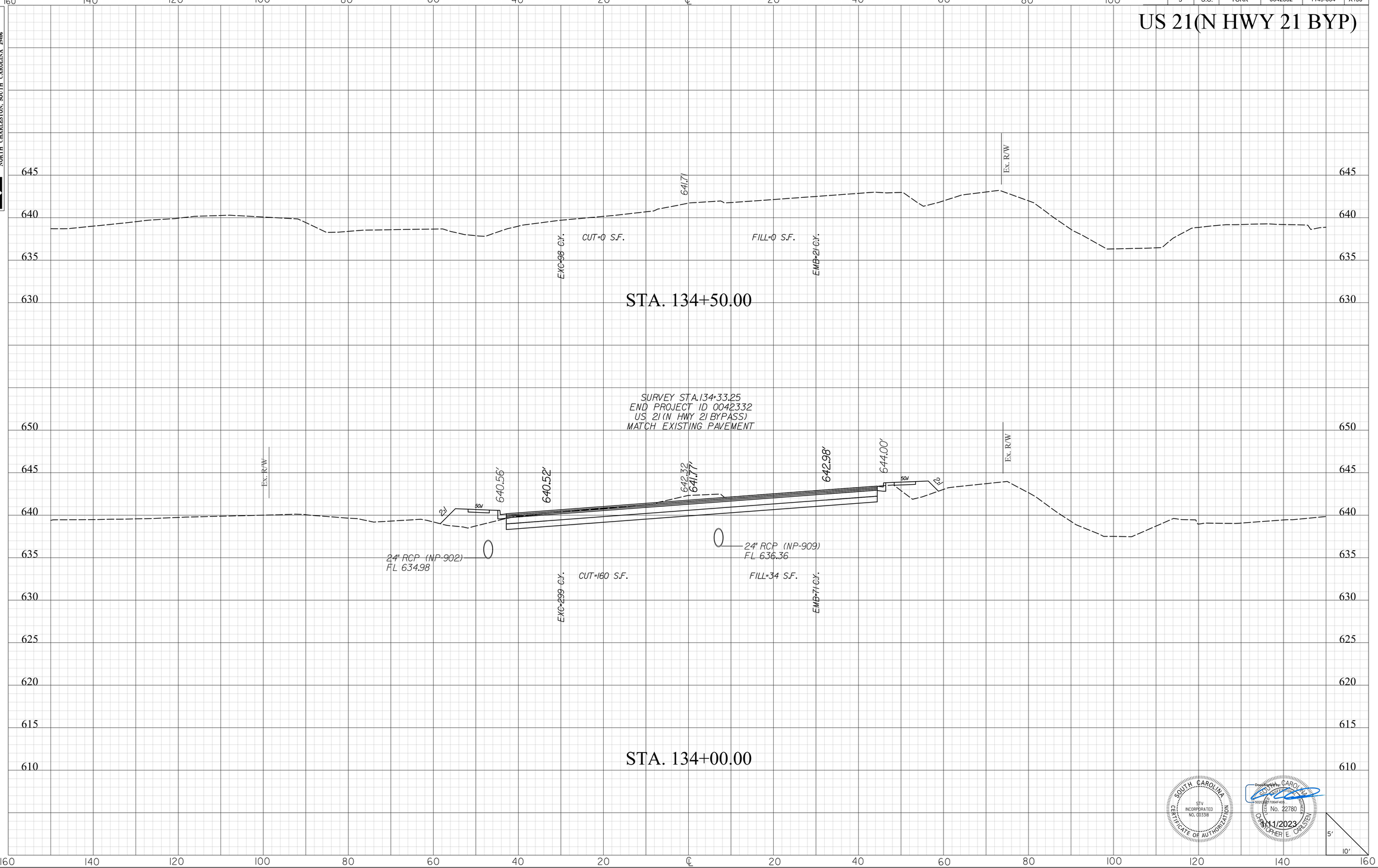
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X130

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21(N HWY 21 BYP)



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SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Docu Sign Envelope ID: 5022C8B7-7064F-4C6 SOUTH CAROLINA No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

20X5.DGN

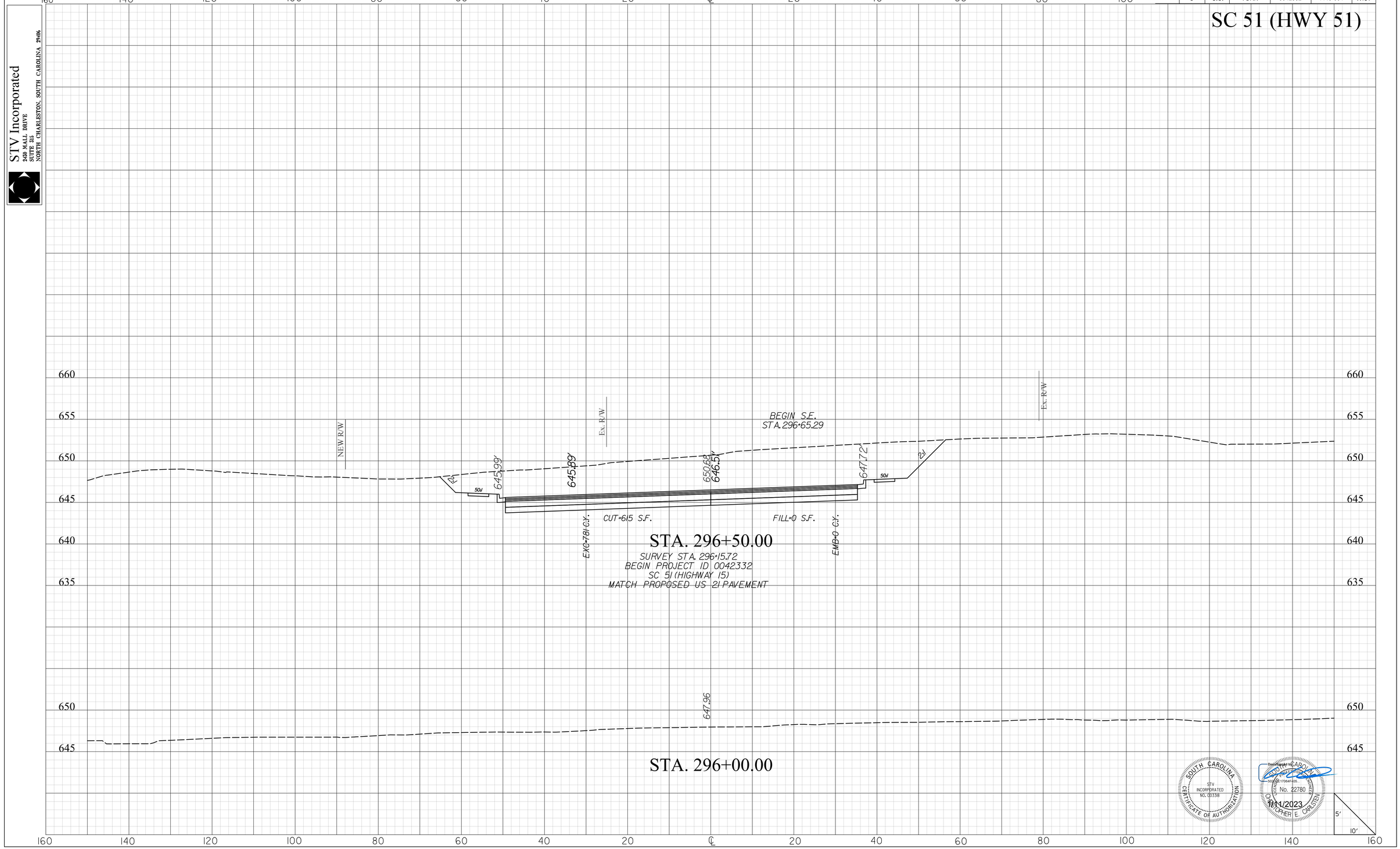
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X131

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 003318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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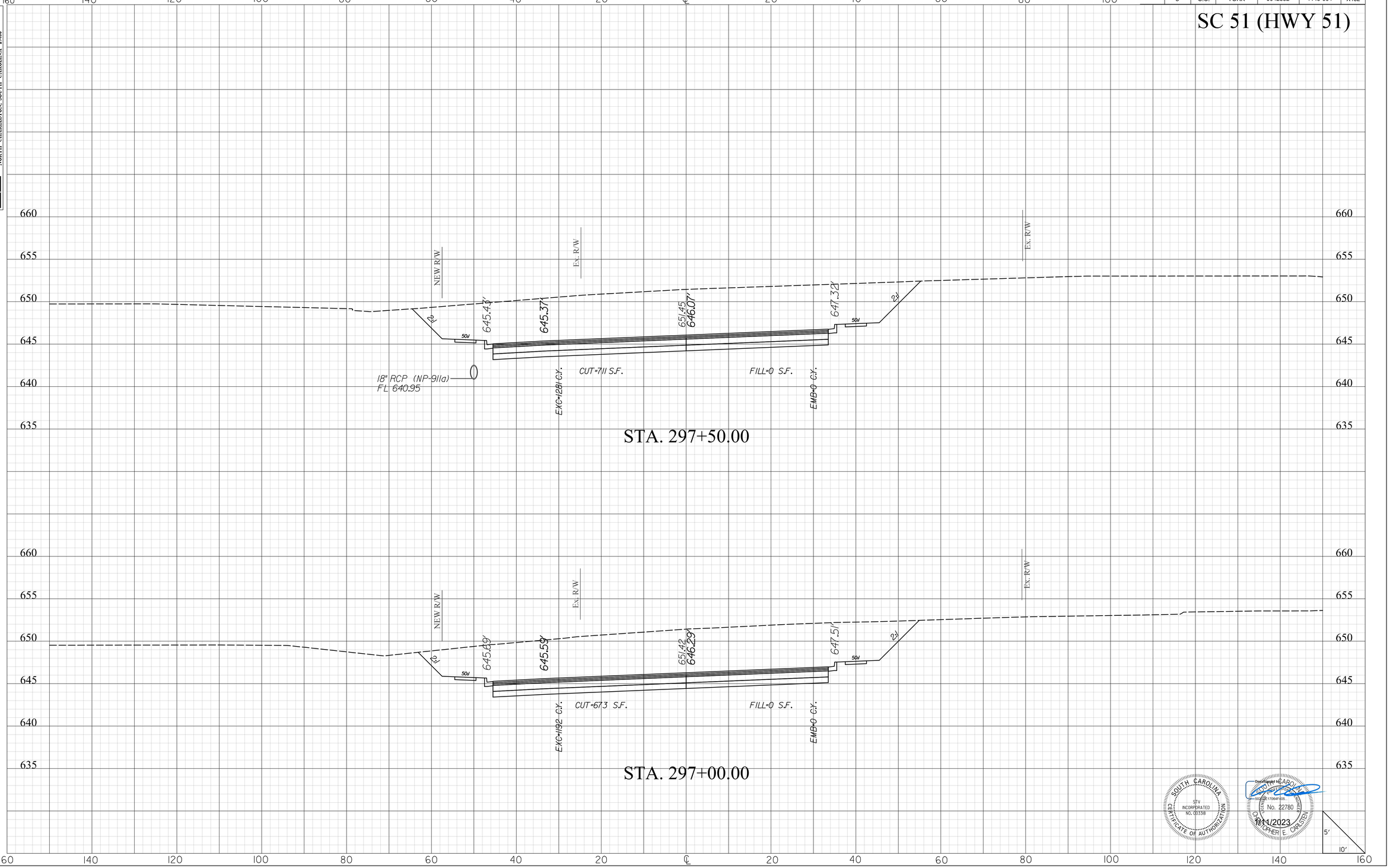
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X132

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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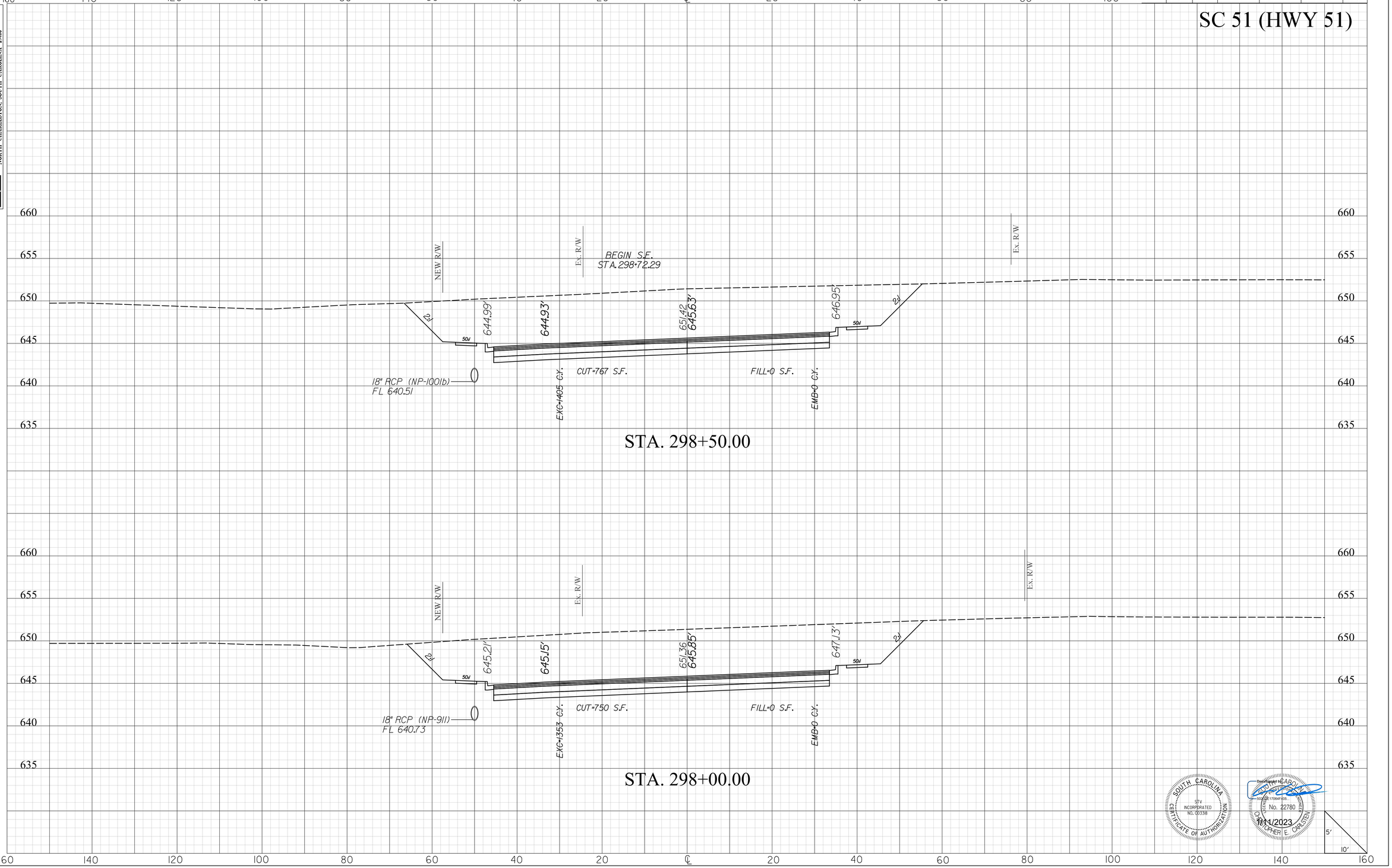
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X133

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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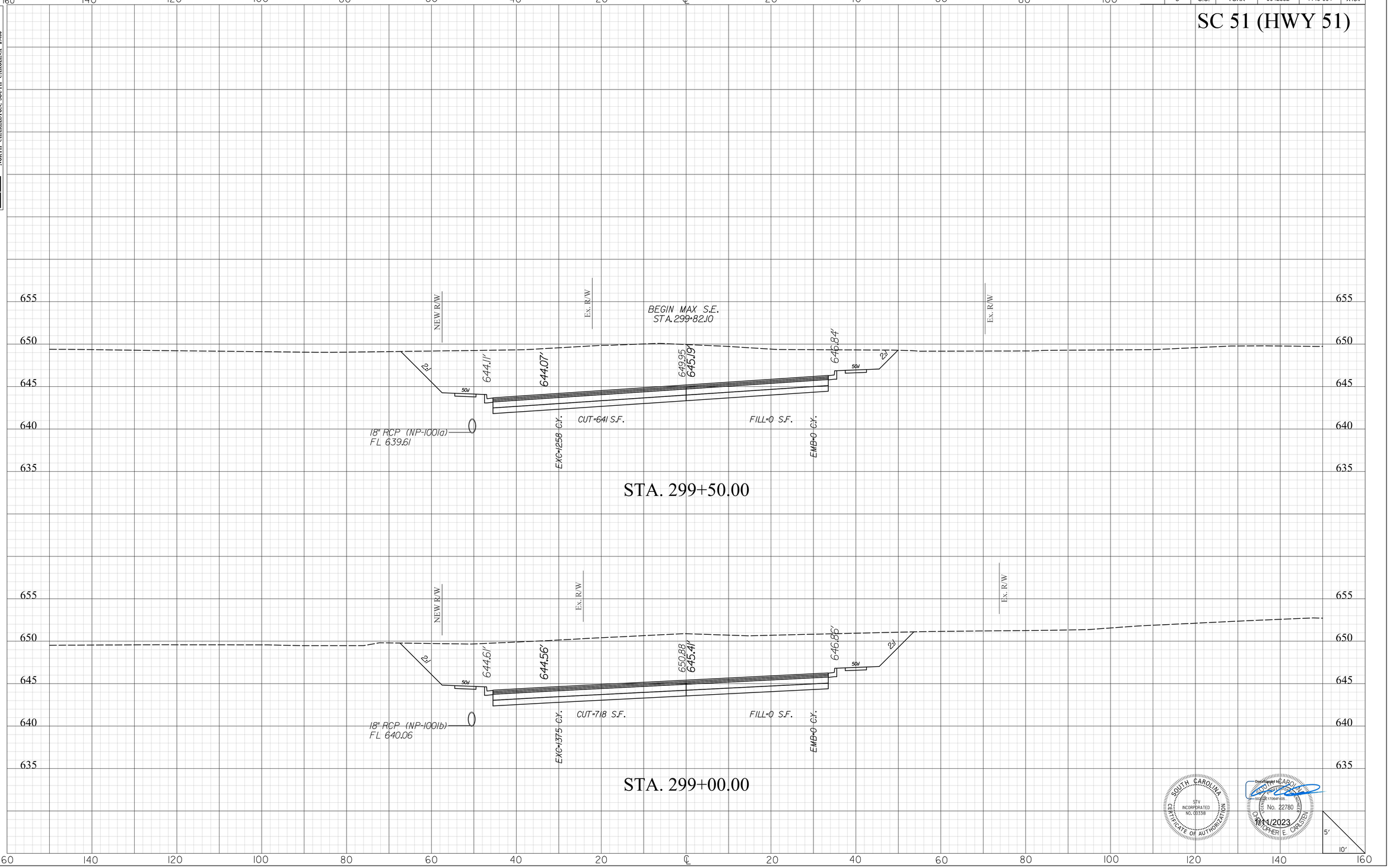
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X134

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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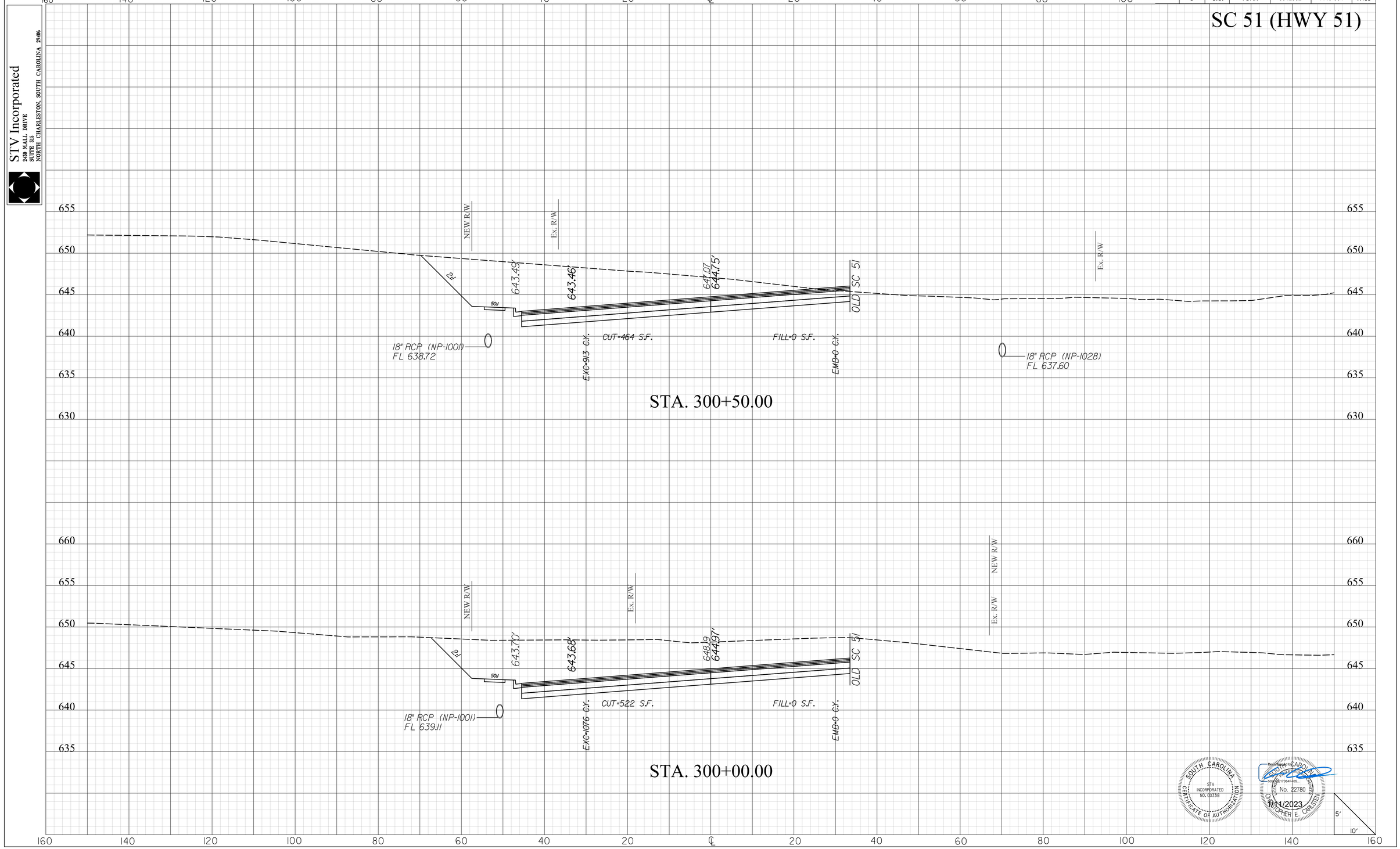
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X135

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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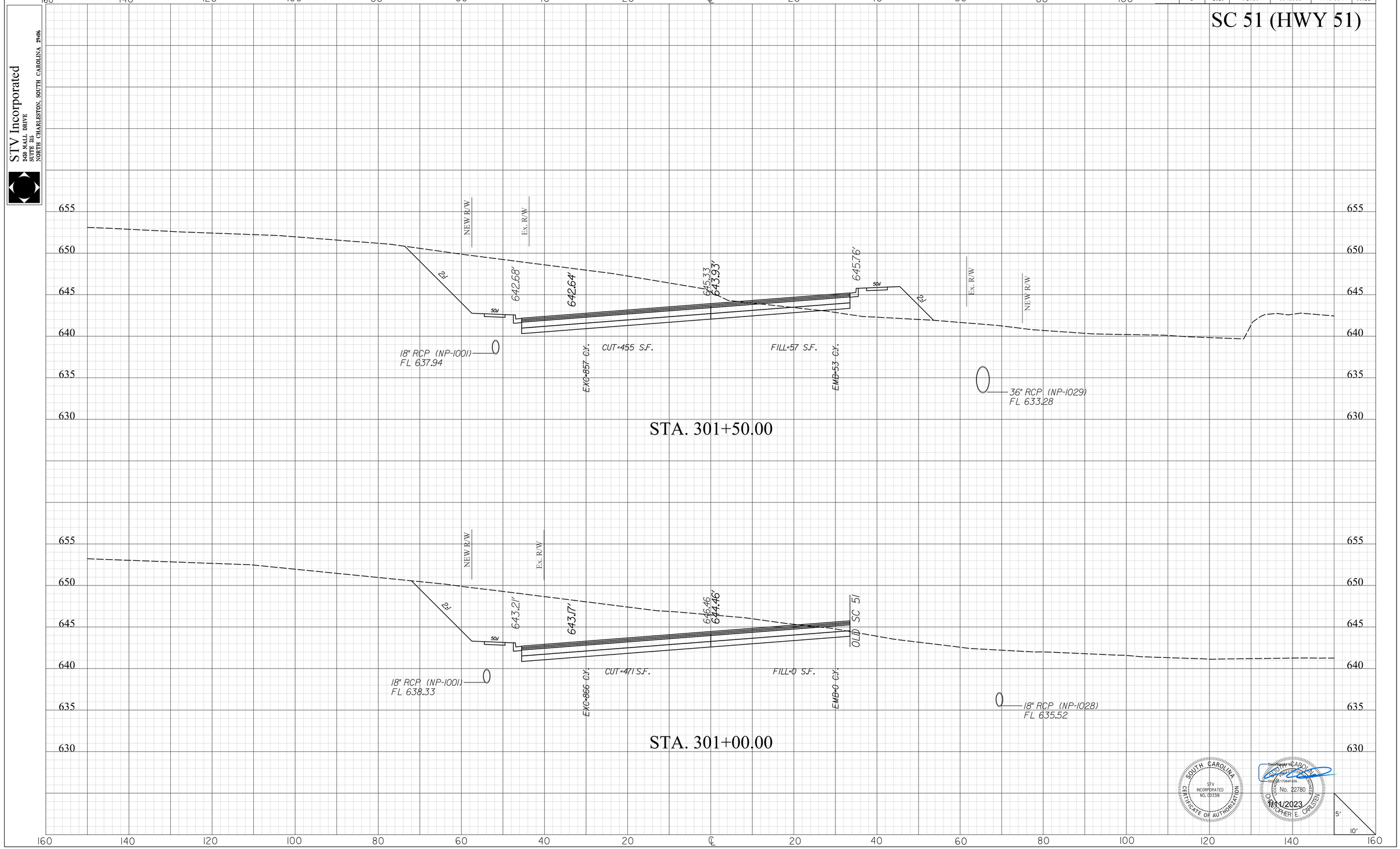
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X136

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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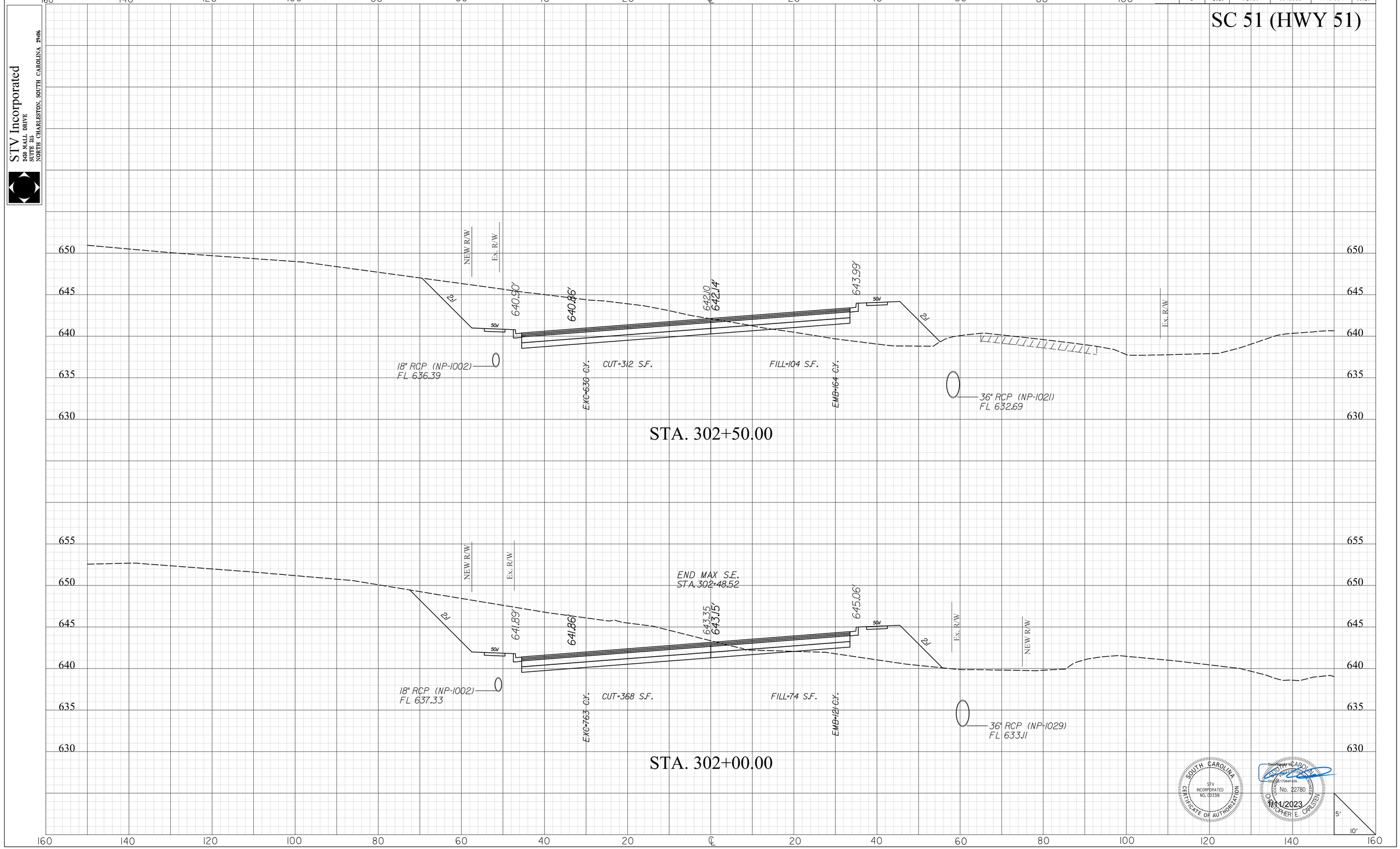
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X137

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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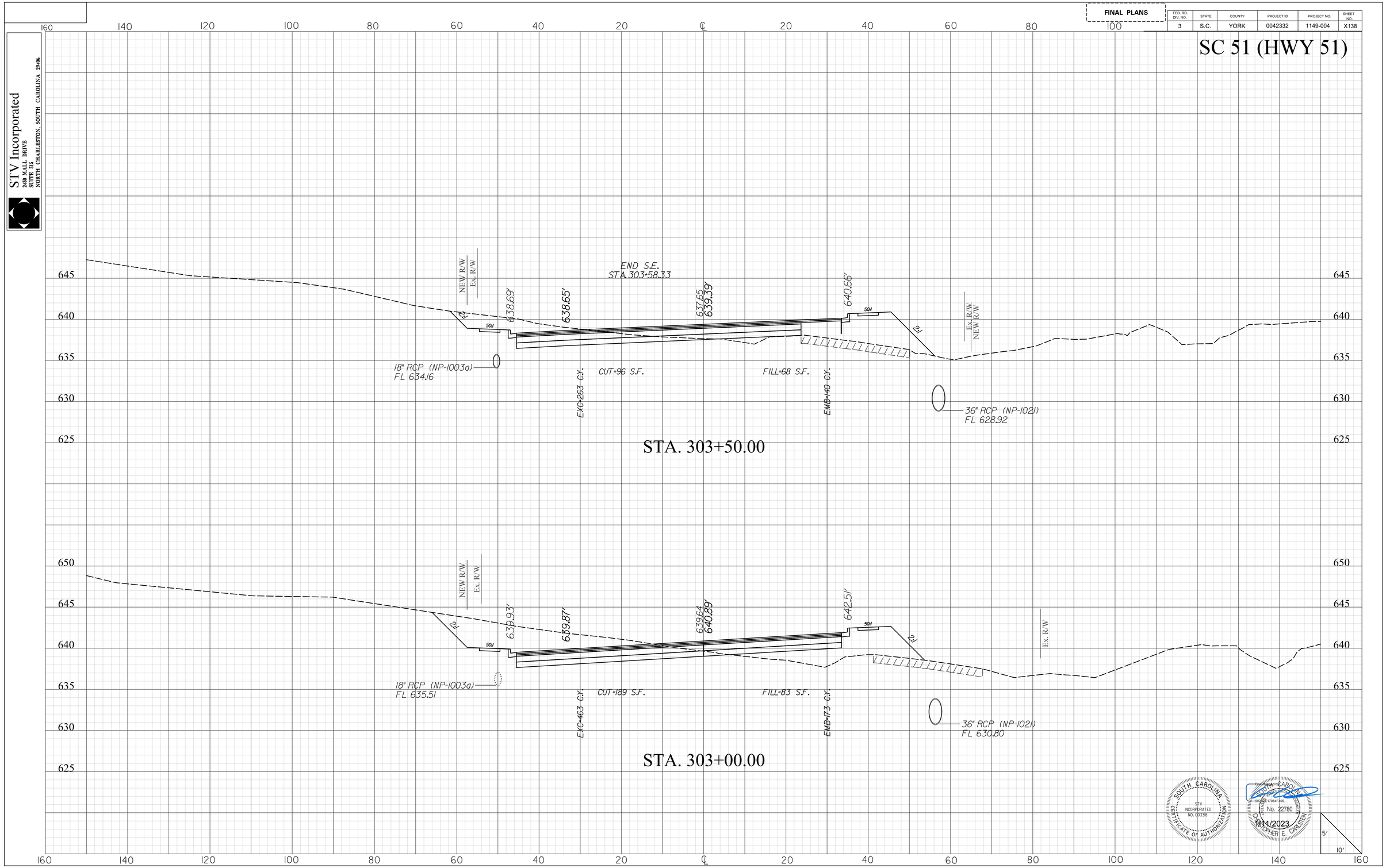
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X138

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
CHRISTOPHER E. CARLSTEN
No. 22780
11/1/2023

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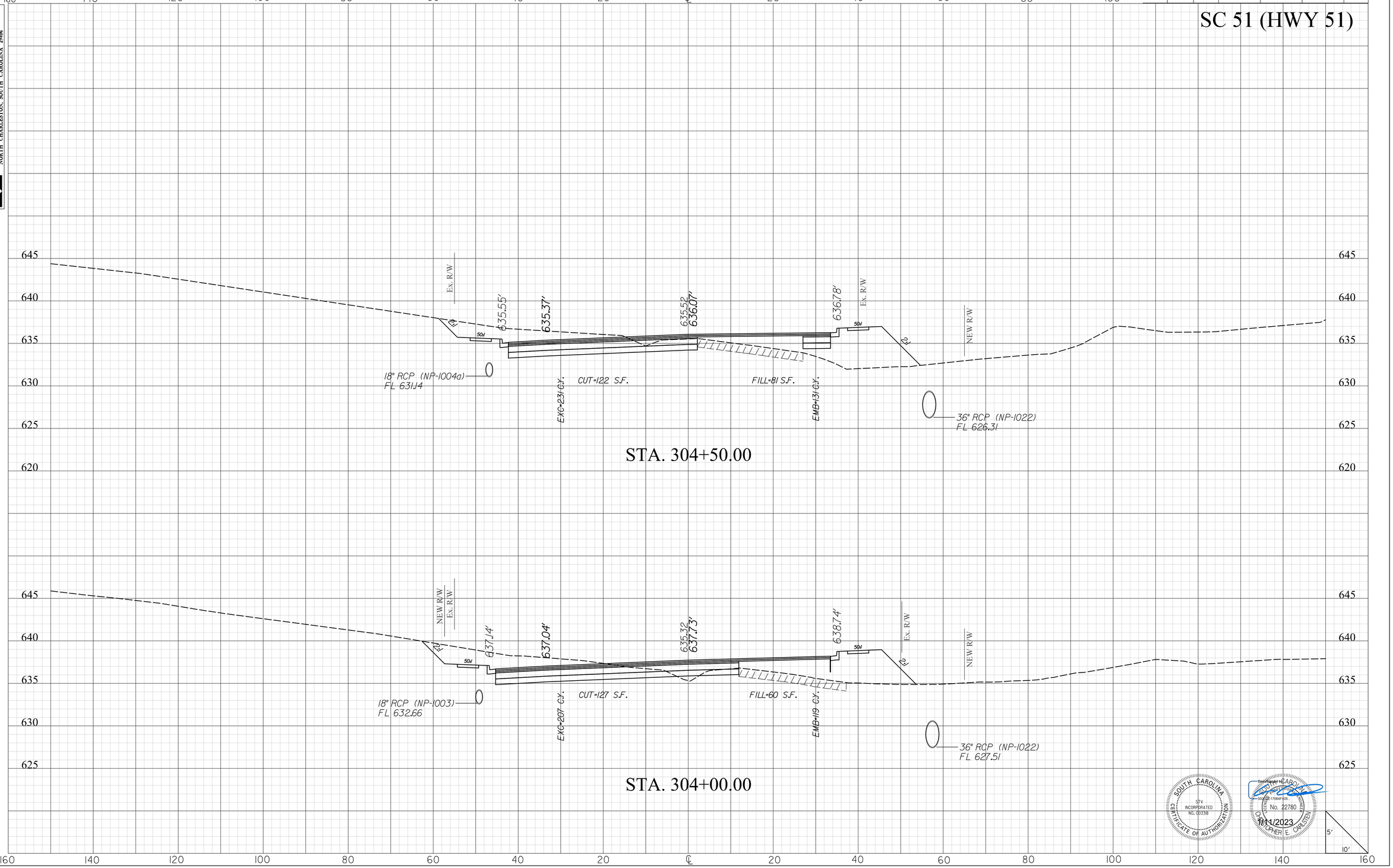
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X139

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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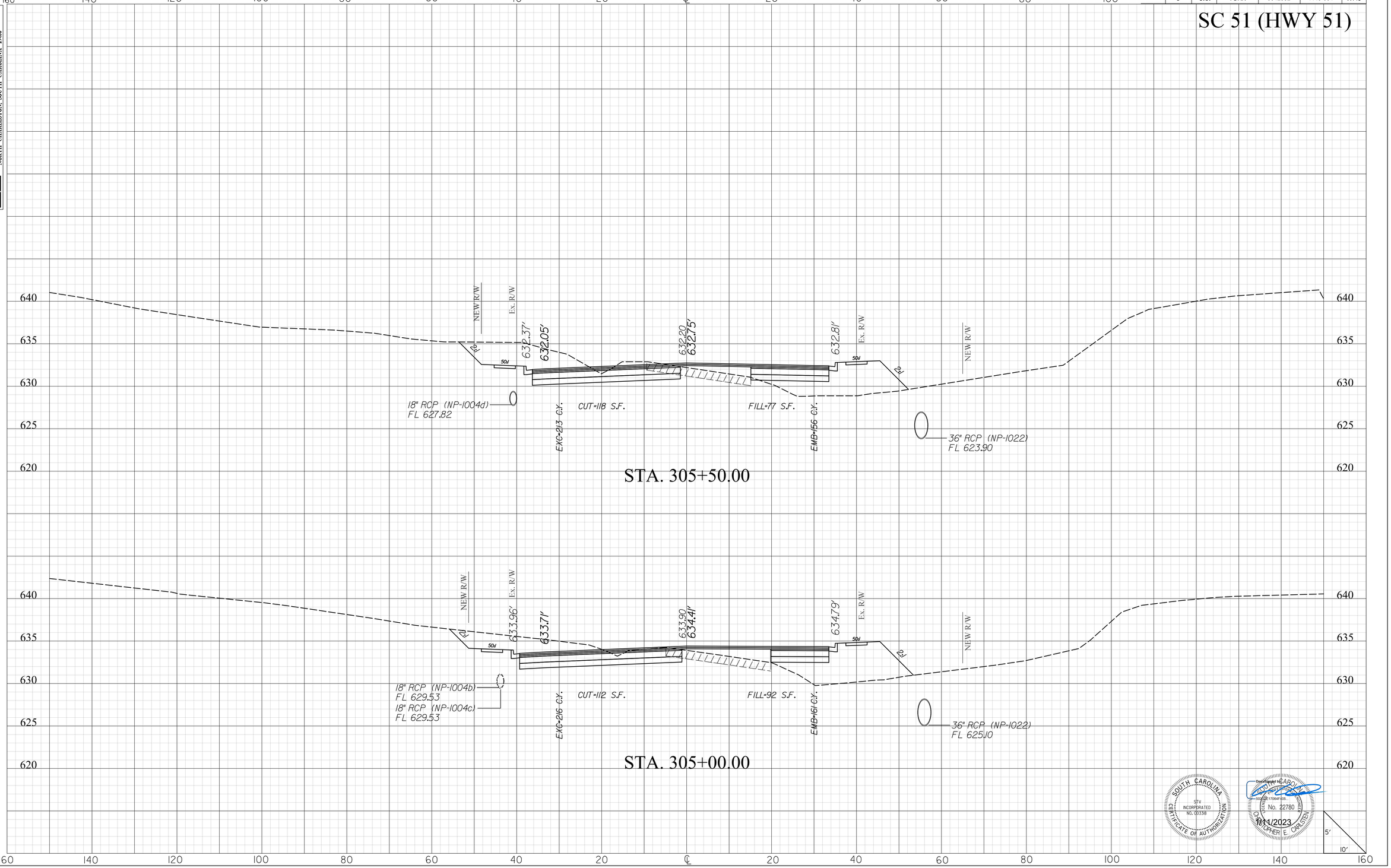
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X140

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 11/1/2023 CHRISTOPHER E. CARLSTEN

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1/10/2023

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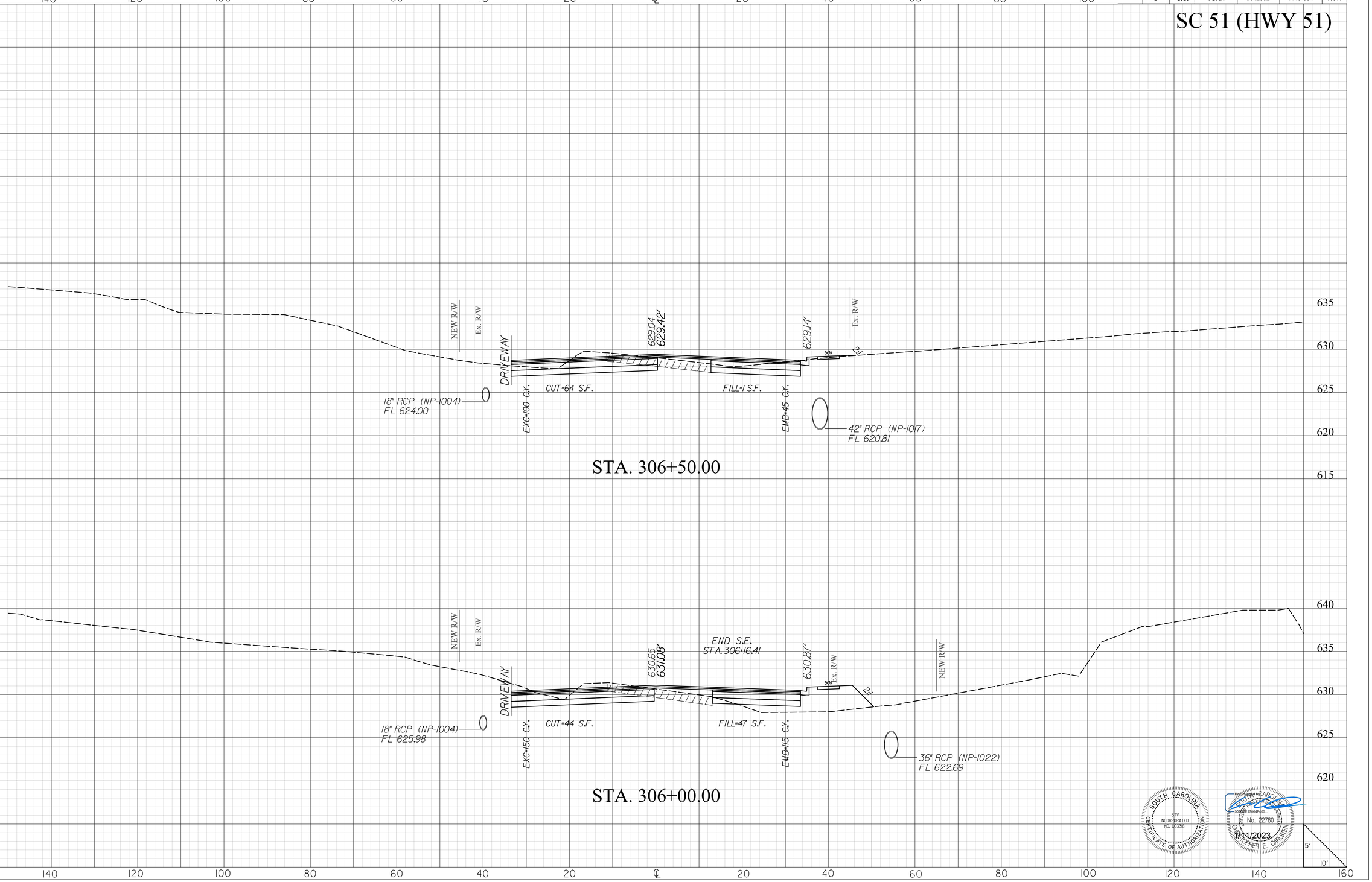
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X141

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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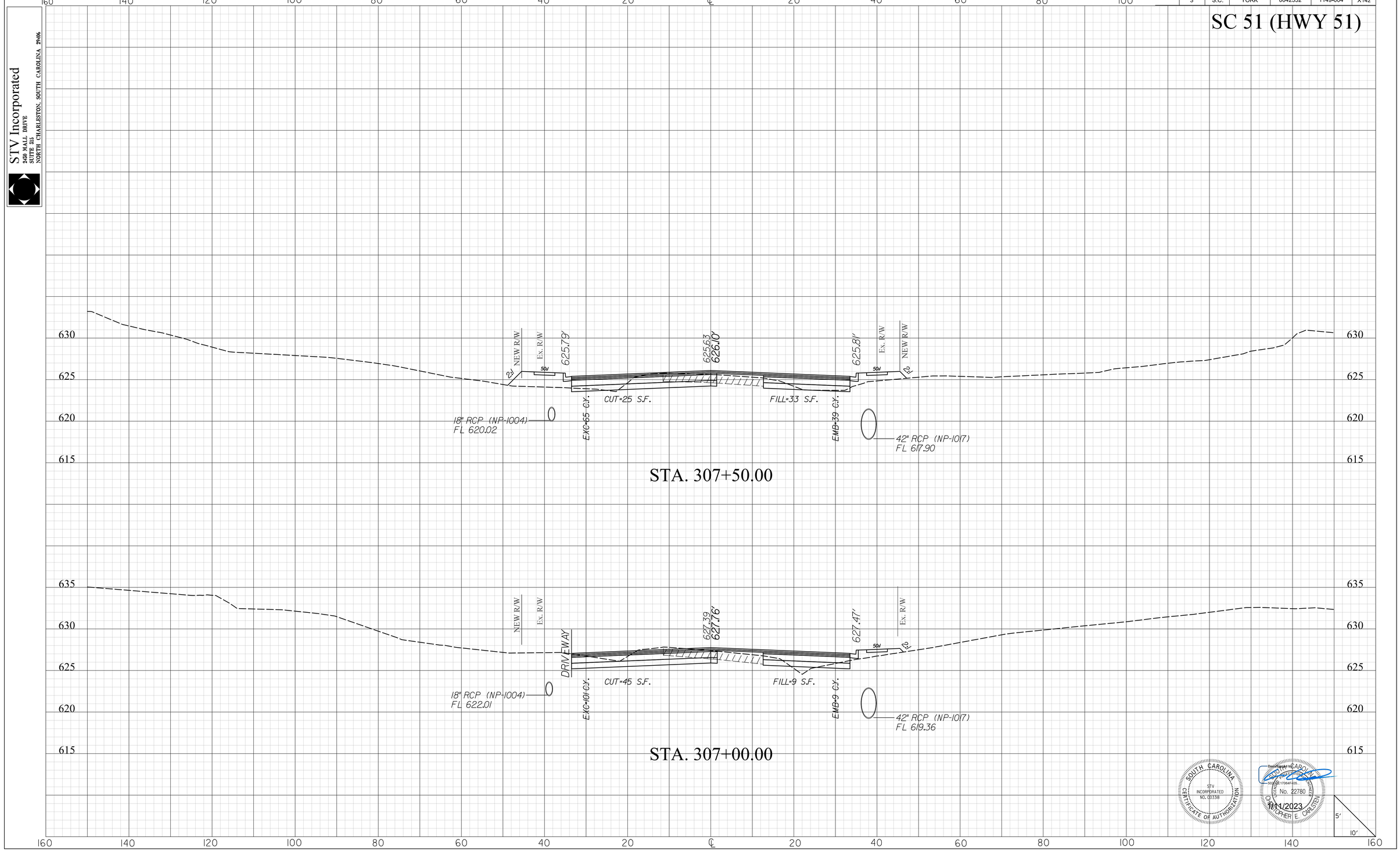
SC 51 (HWY 51)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C00338

Registered in SOUTH CAROLINA
No. 22780
CHERI E. CARTER
5/11/2023

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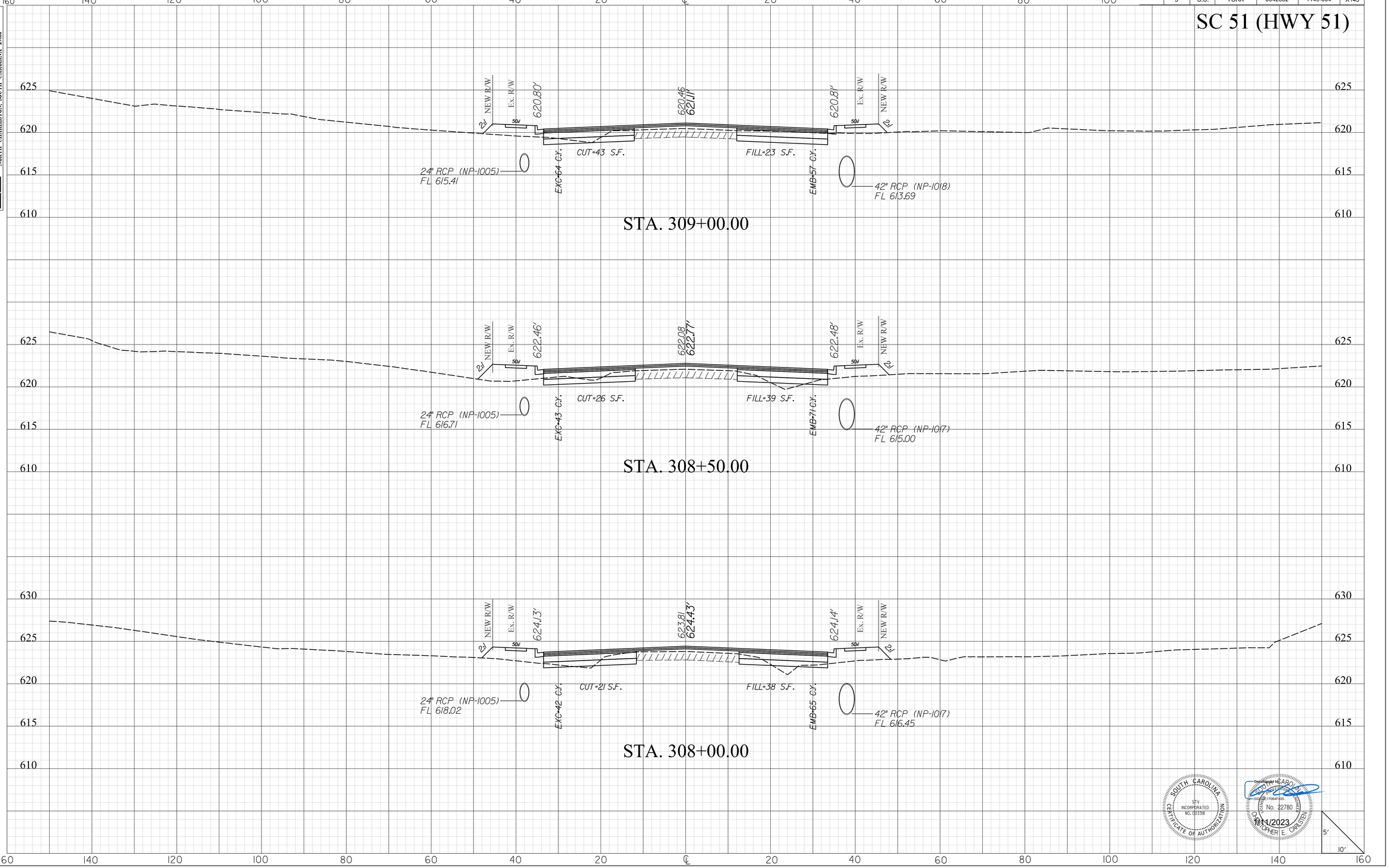
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X143

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. 003318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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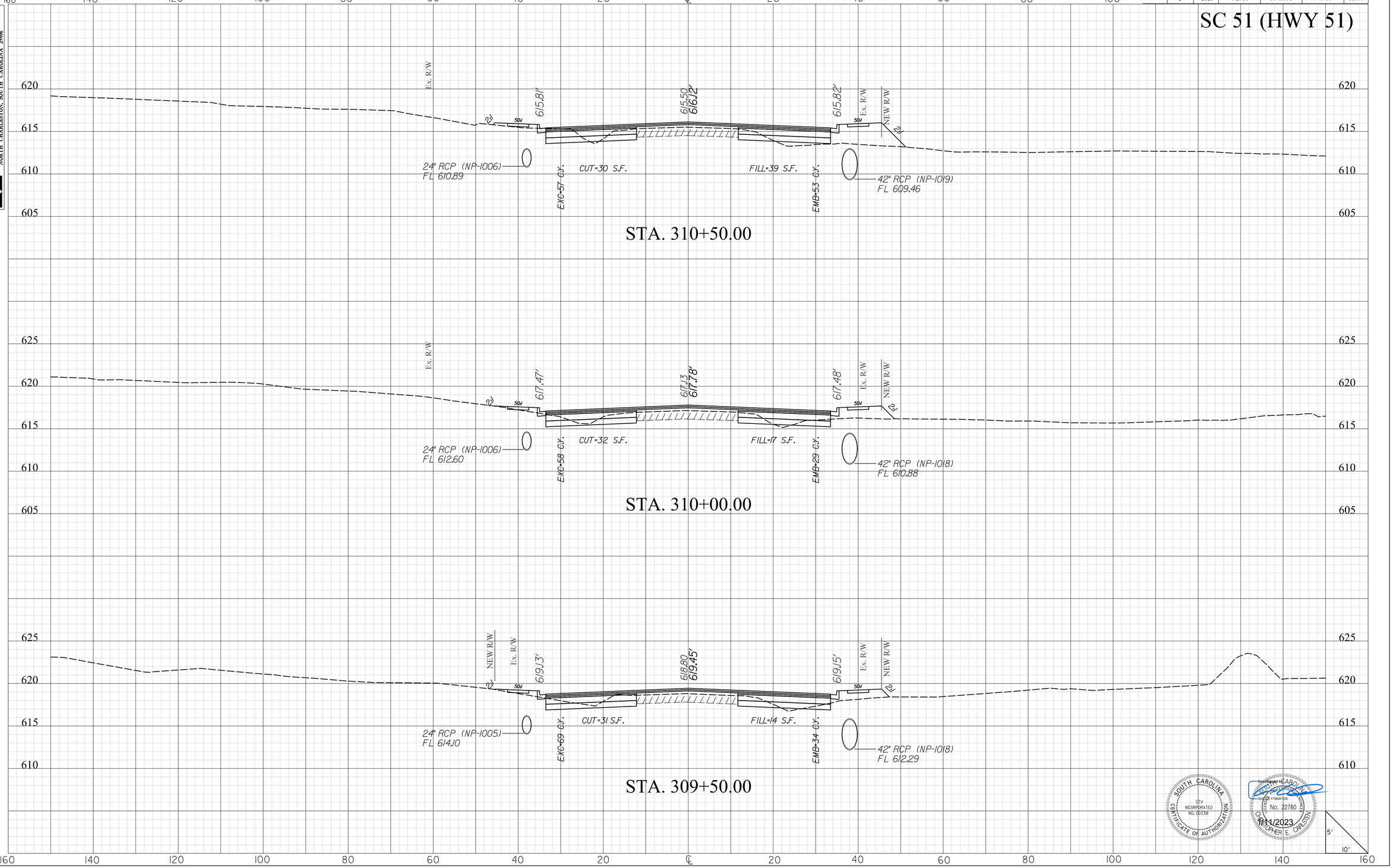
SC 51 (HWY 51)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NEW R/W
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5%
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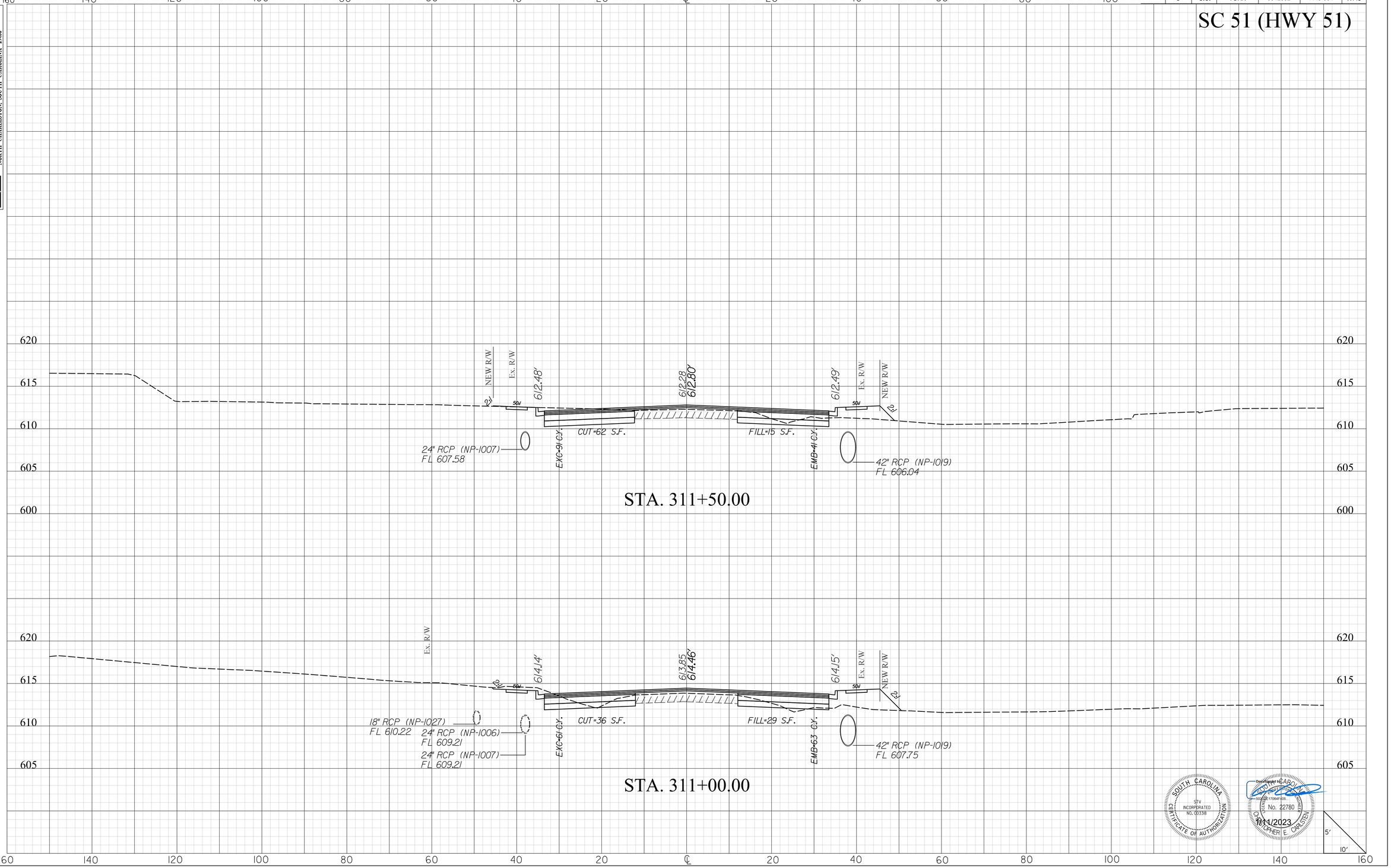
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X145

SC 51 (HWY 51)



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11/10/2023

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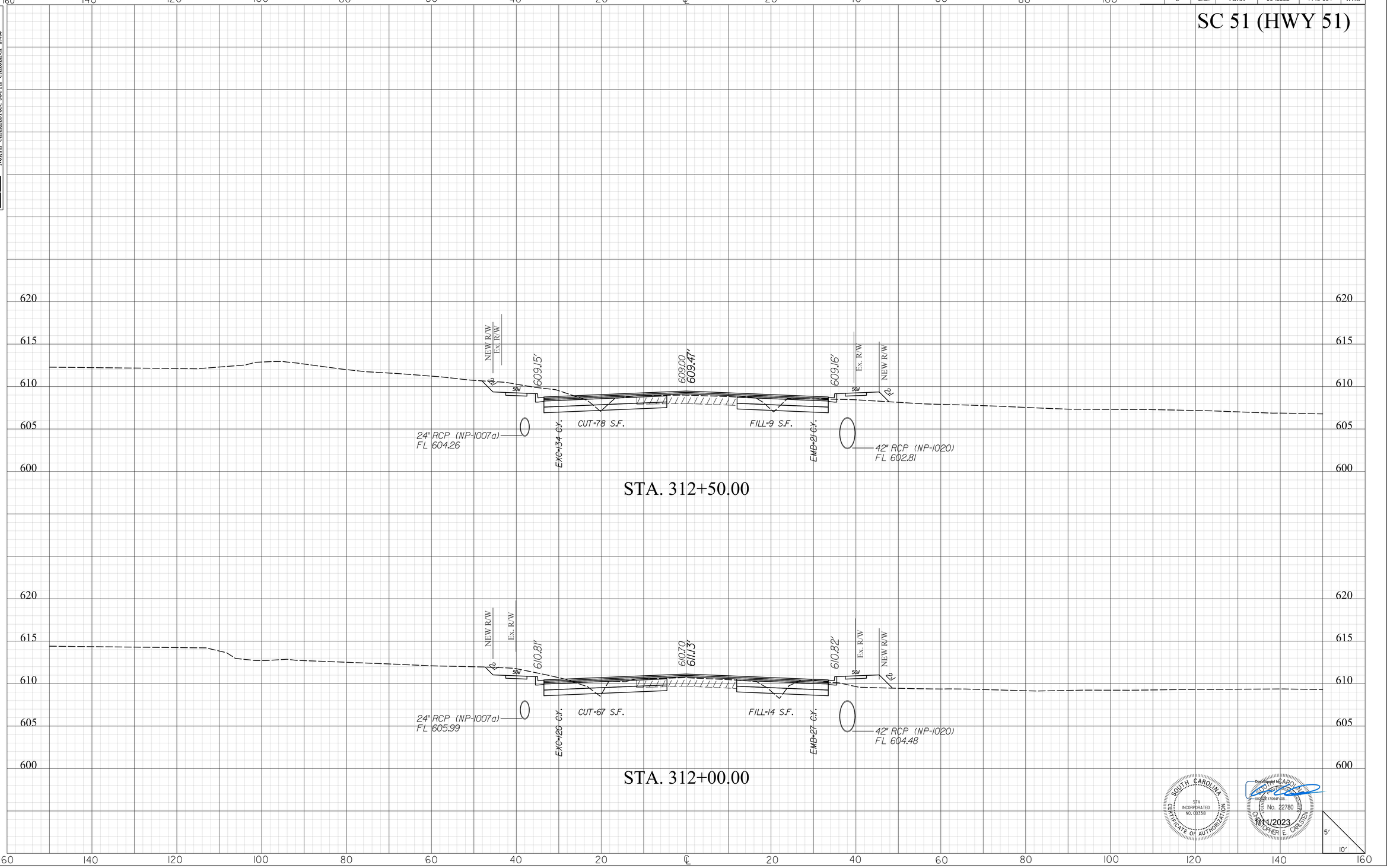
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X146

SC 51 (HWY 51)



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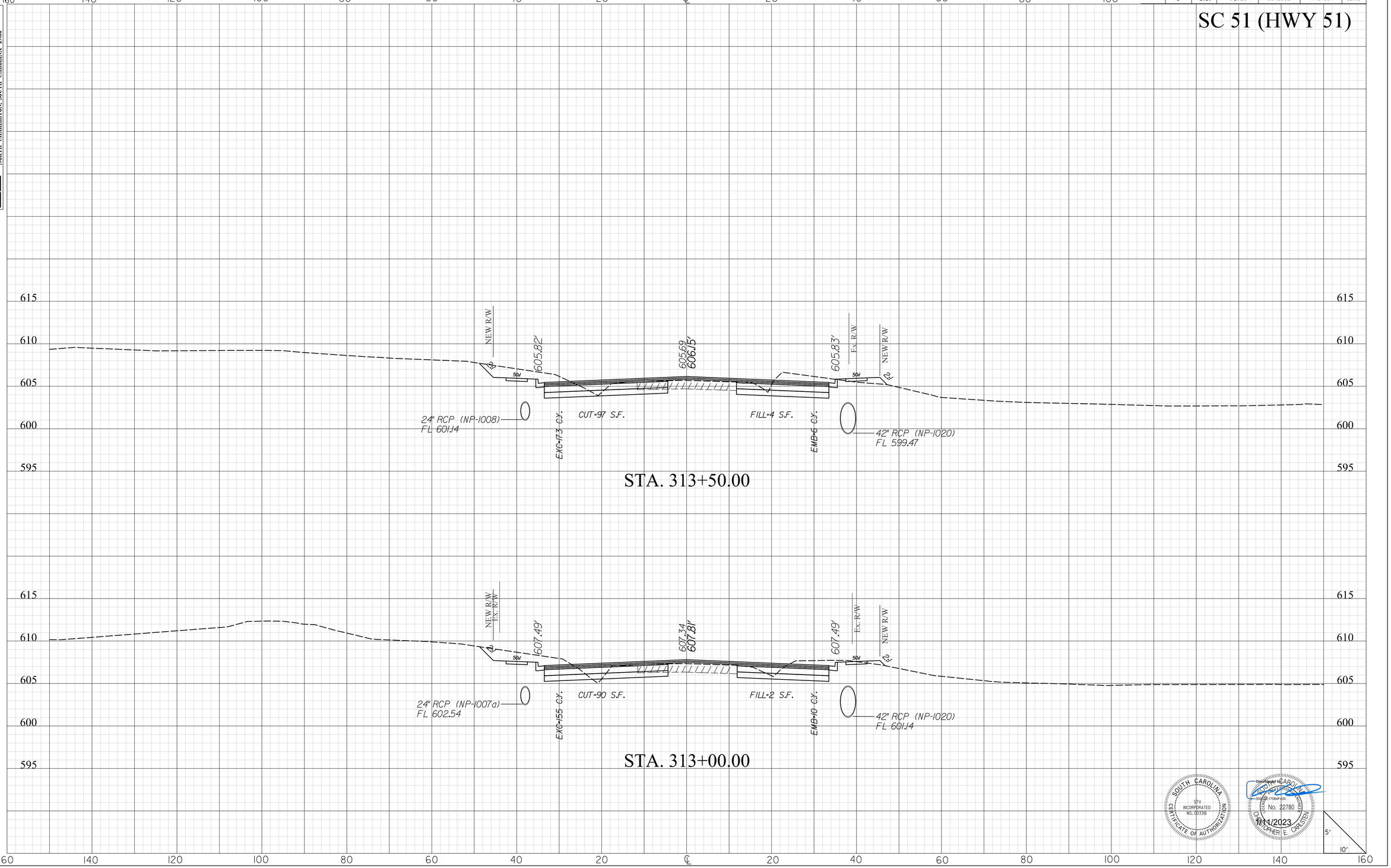
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X147

SC 51 (HWY 51)



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1/10/2023

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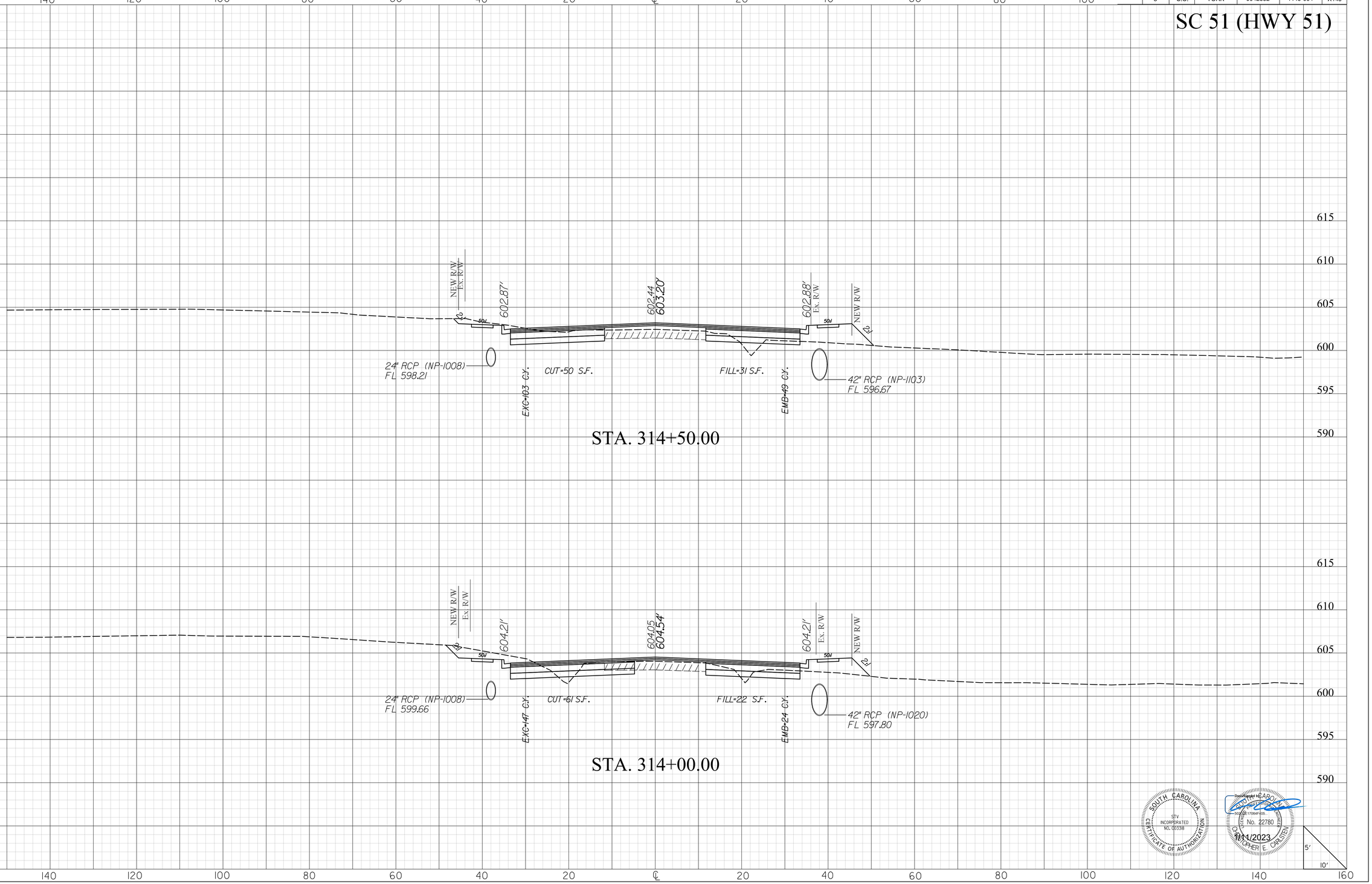
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X148

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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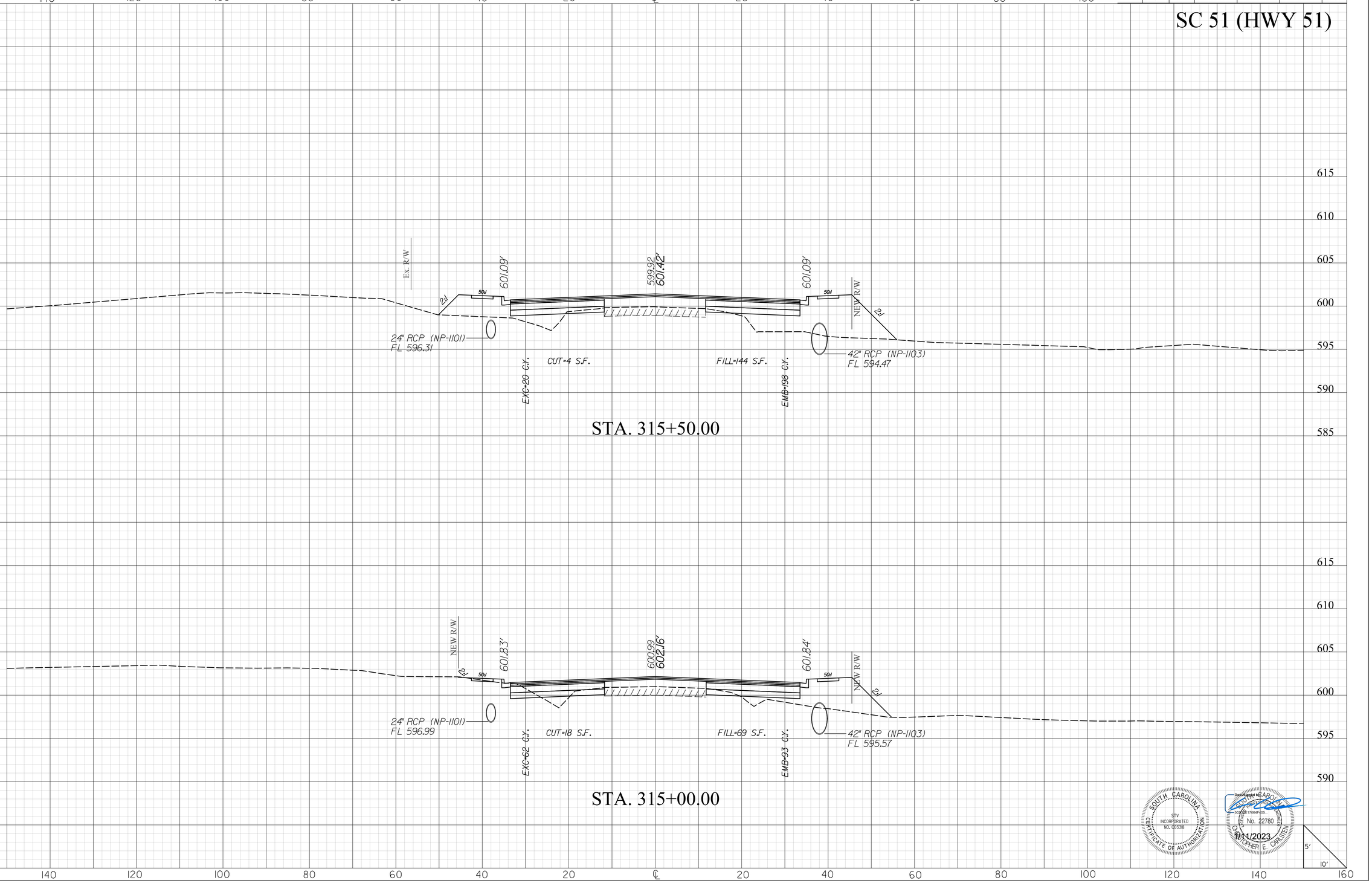
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X149

SC 51 (HWY 51)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. 00338

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
11/1/2023

masttlg
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1/10/2023

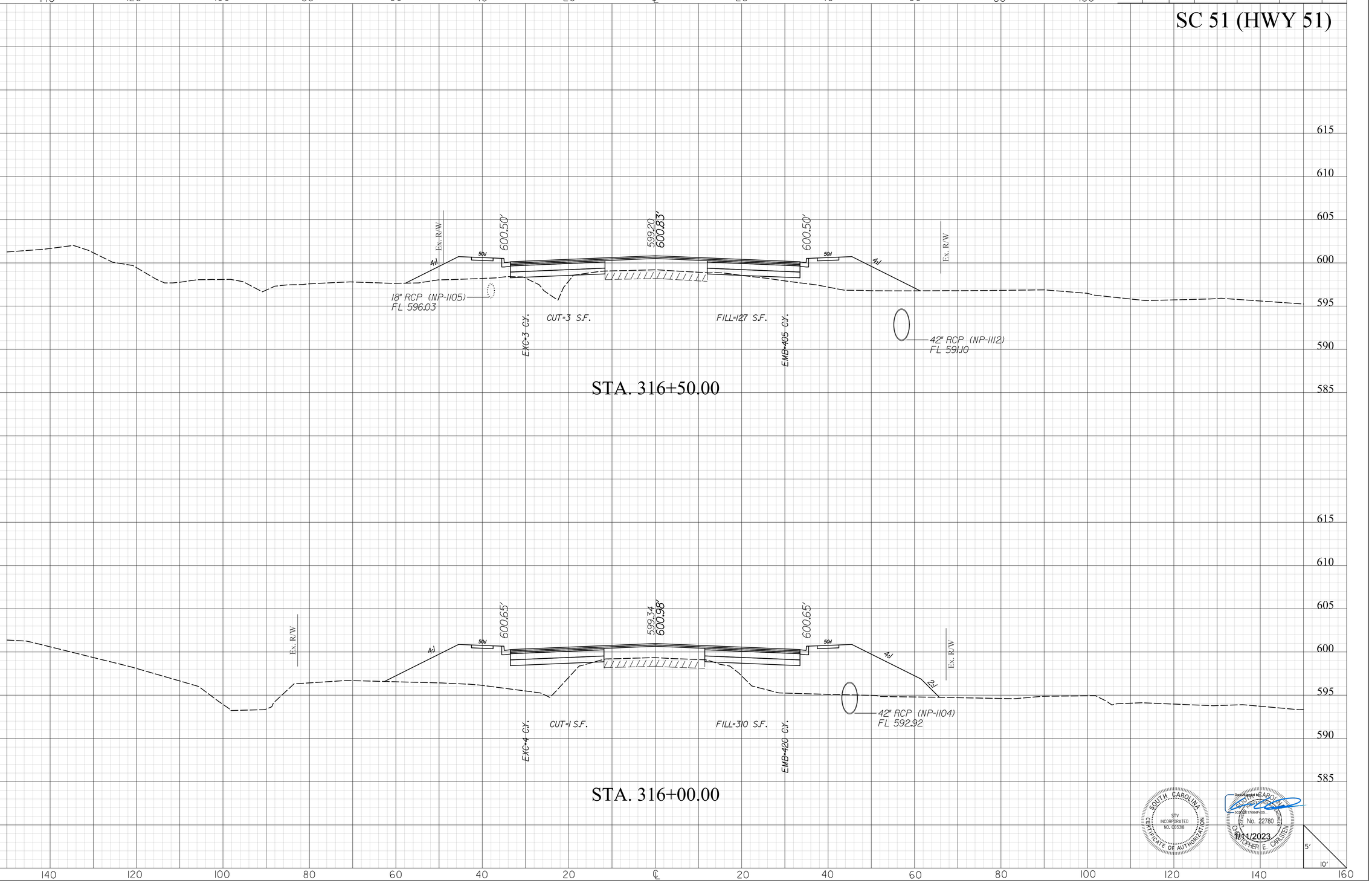
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X150

SC 51 (HWY 51)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

Professional Engineer CHRISTOPHER E. CARLSEN No. 22780

10/11/2023

masflitg
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1/10/2023

2DXS.DGN

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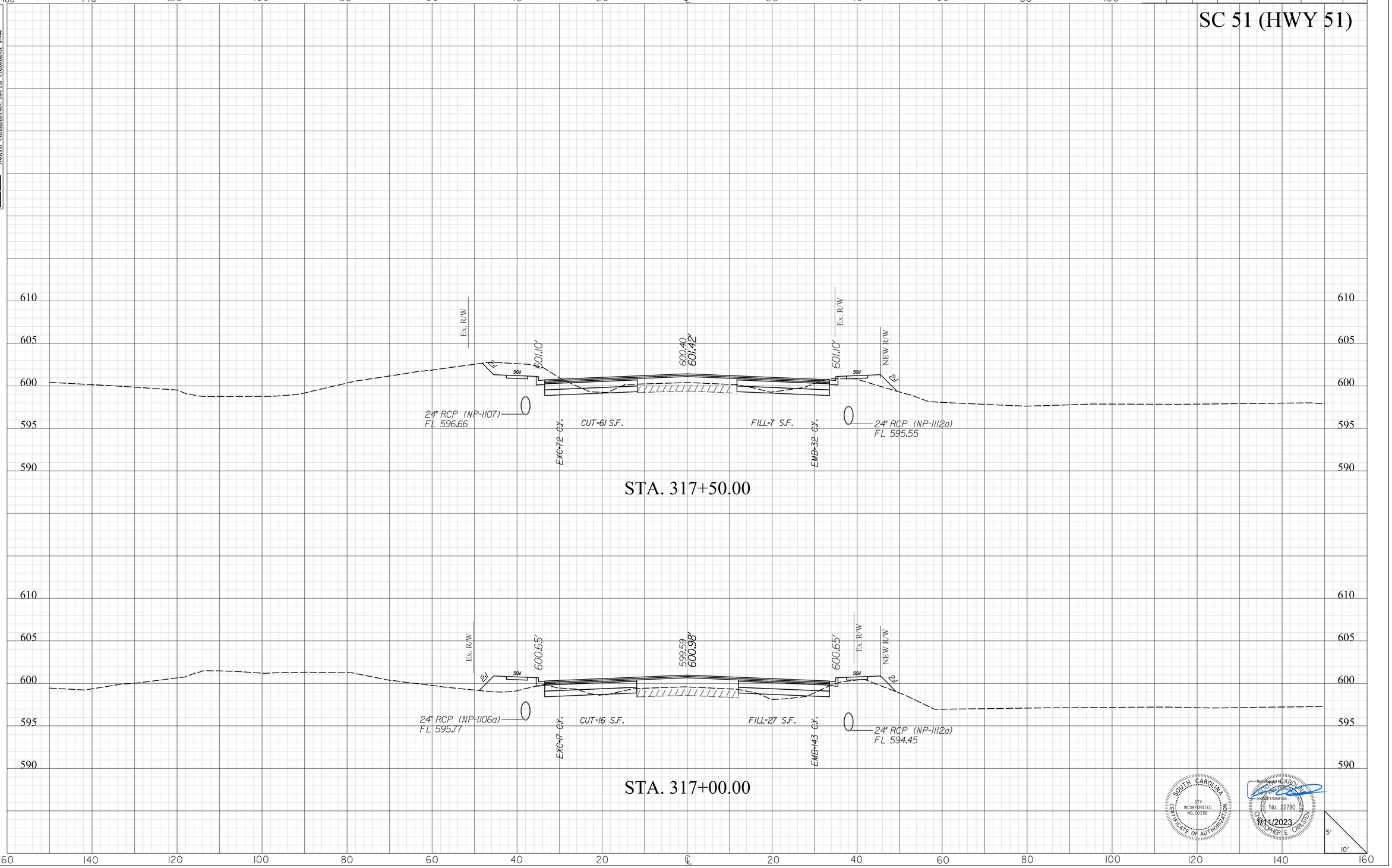
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X151

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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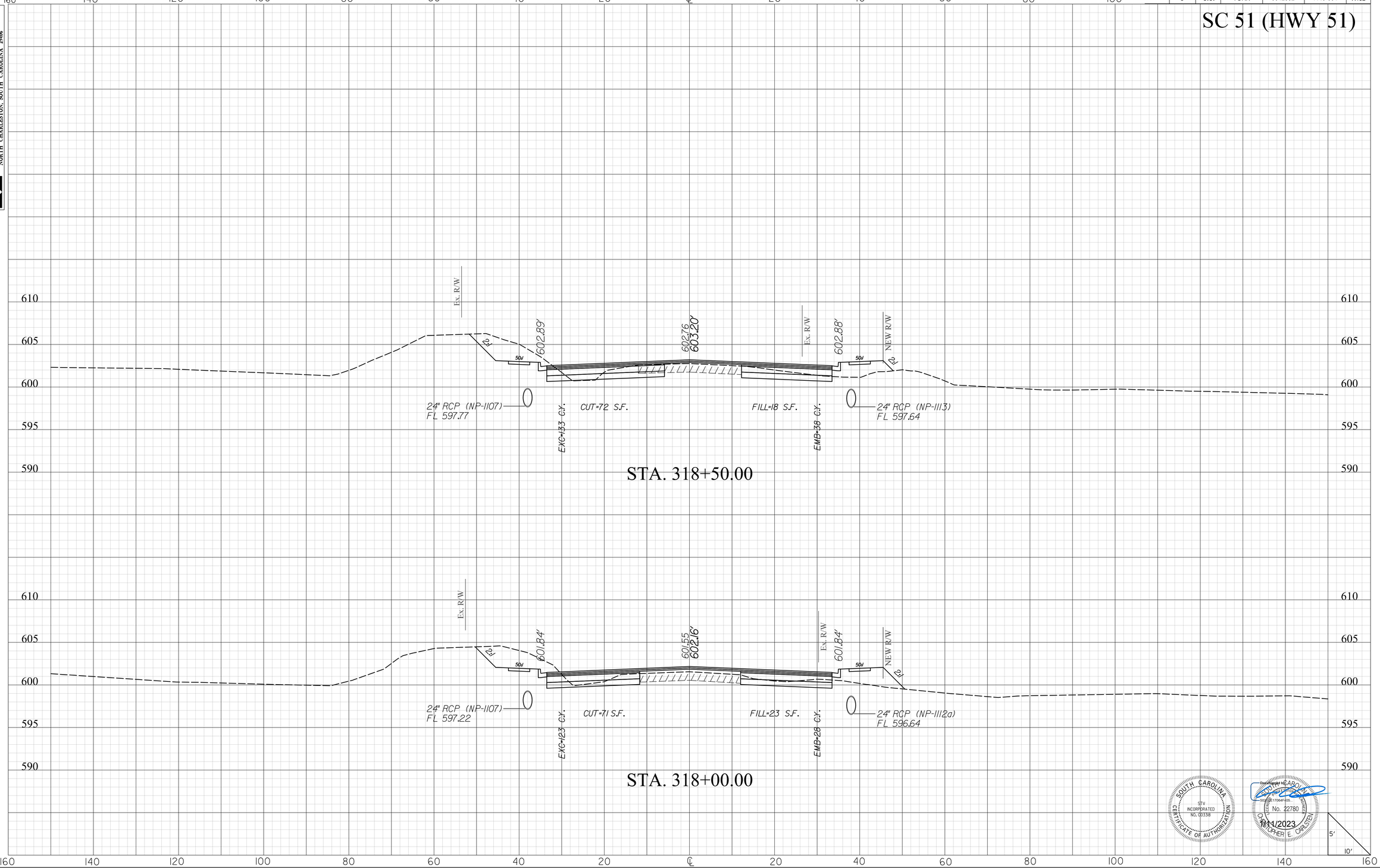
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X152

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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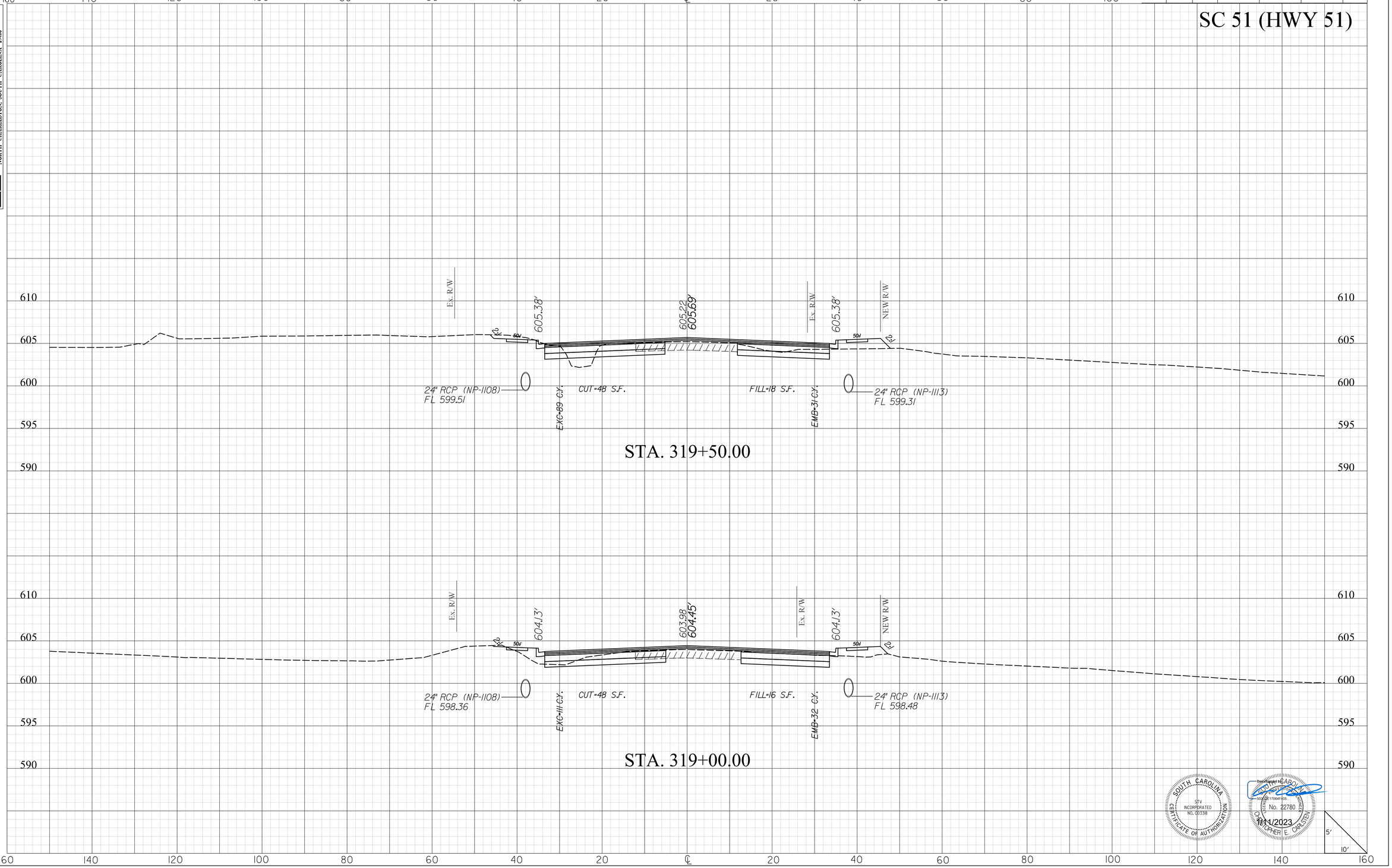
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X153

SC 51 (HWY 51)



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1/10/2023

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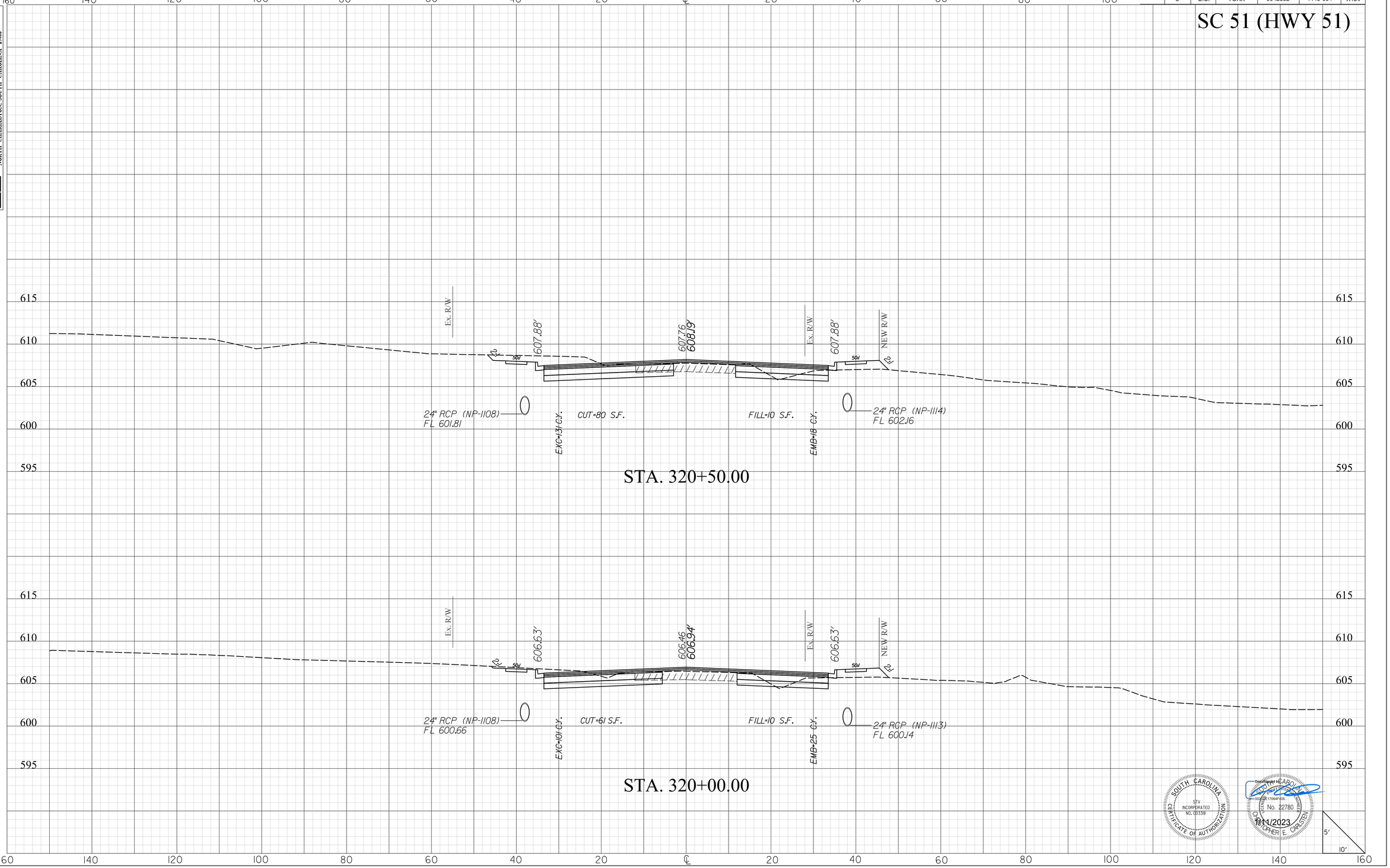
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X154

SC 51 (HWY 51)



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1/10/2023

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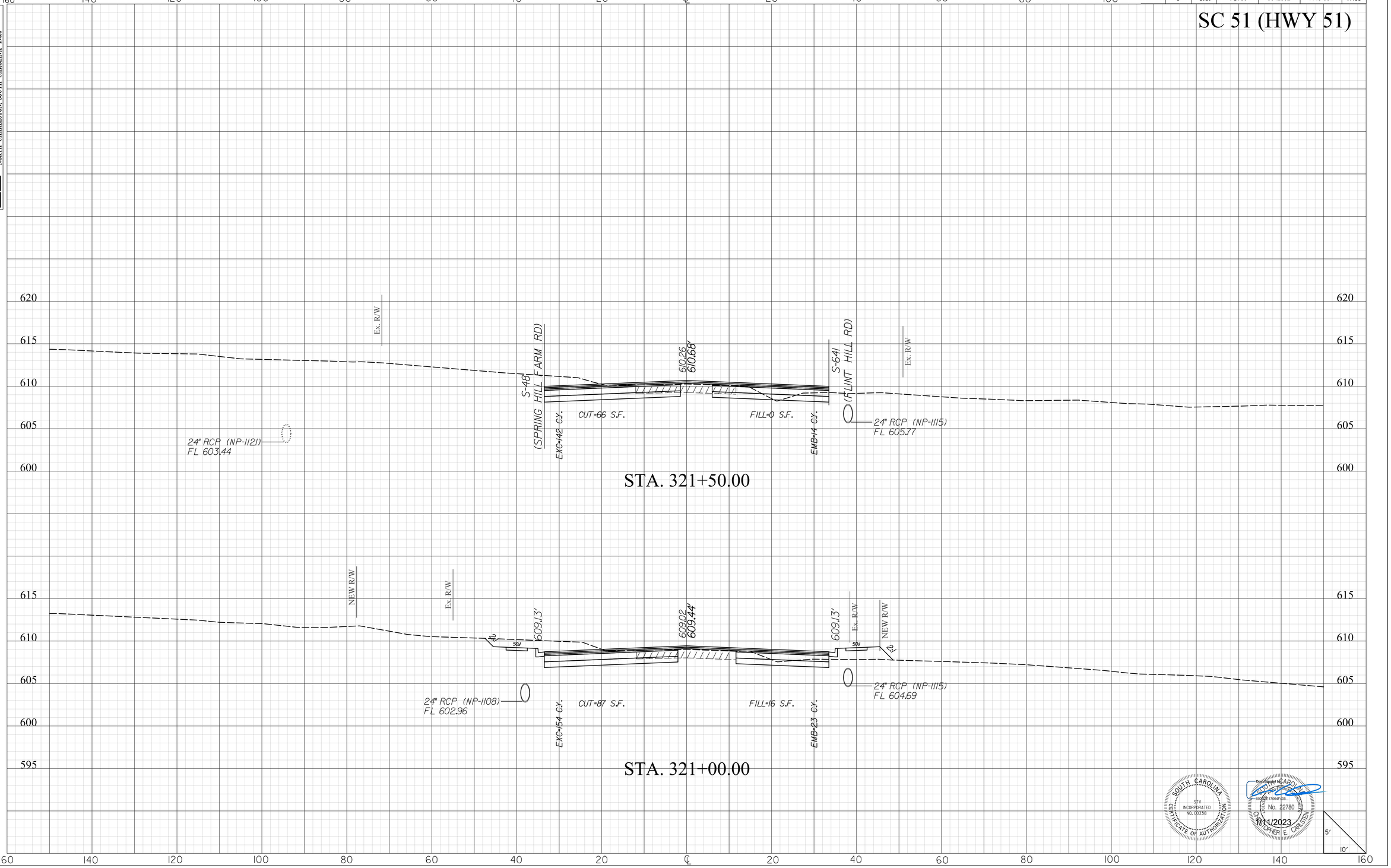
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X155

SC 51 (HWY 51)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
11/1/2023

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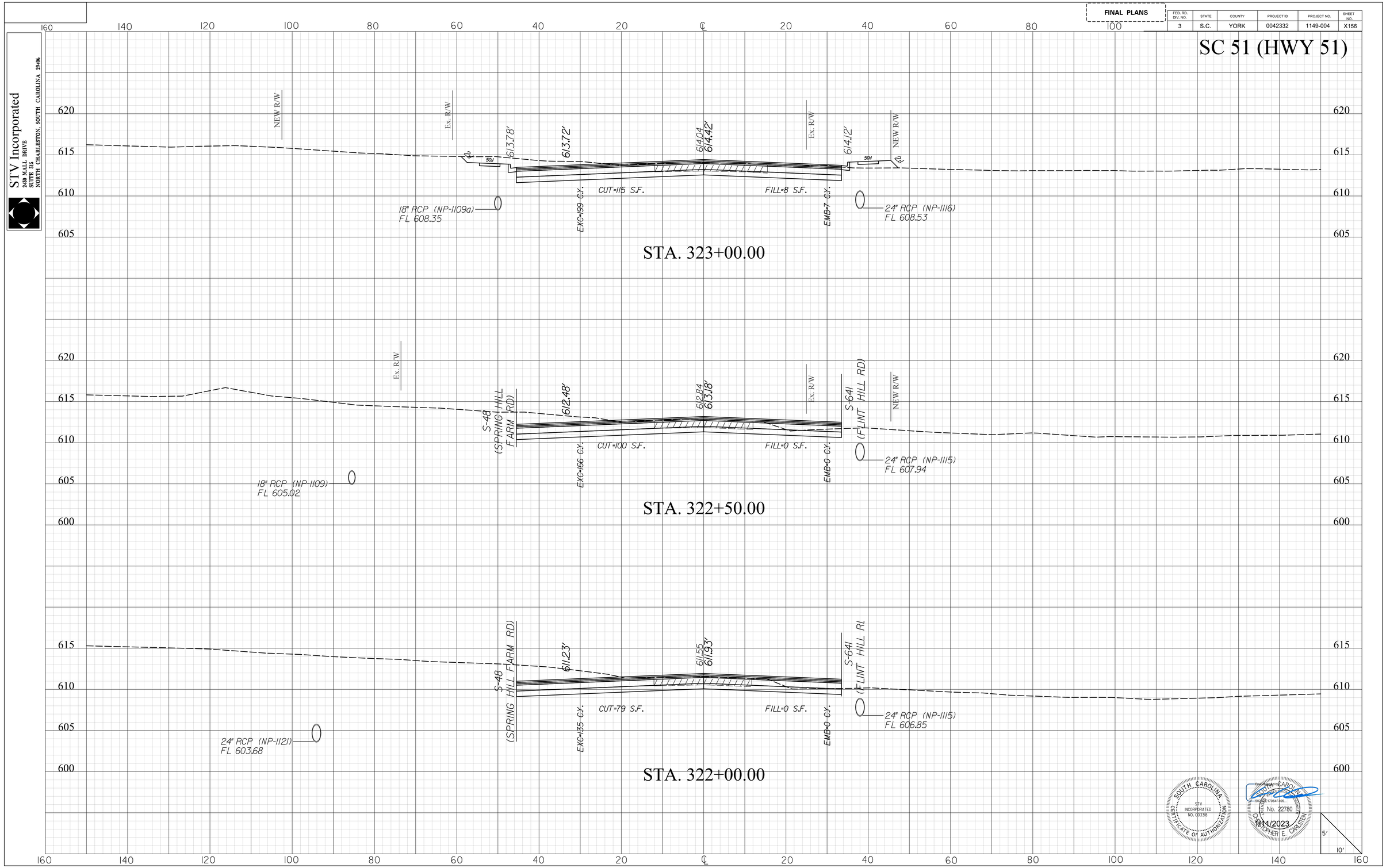
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X156

SC 51 (HWY 51)



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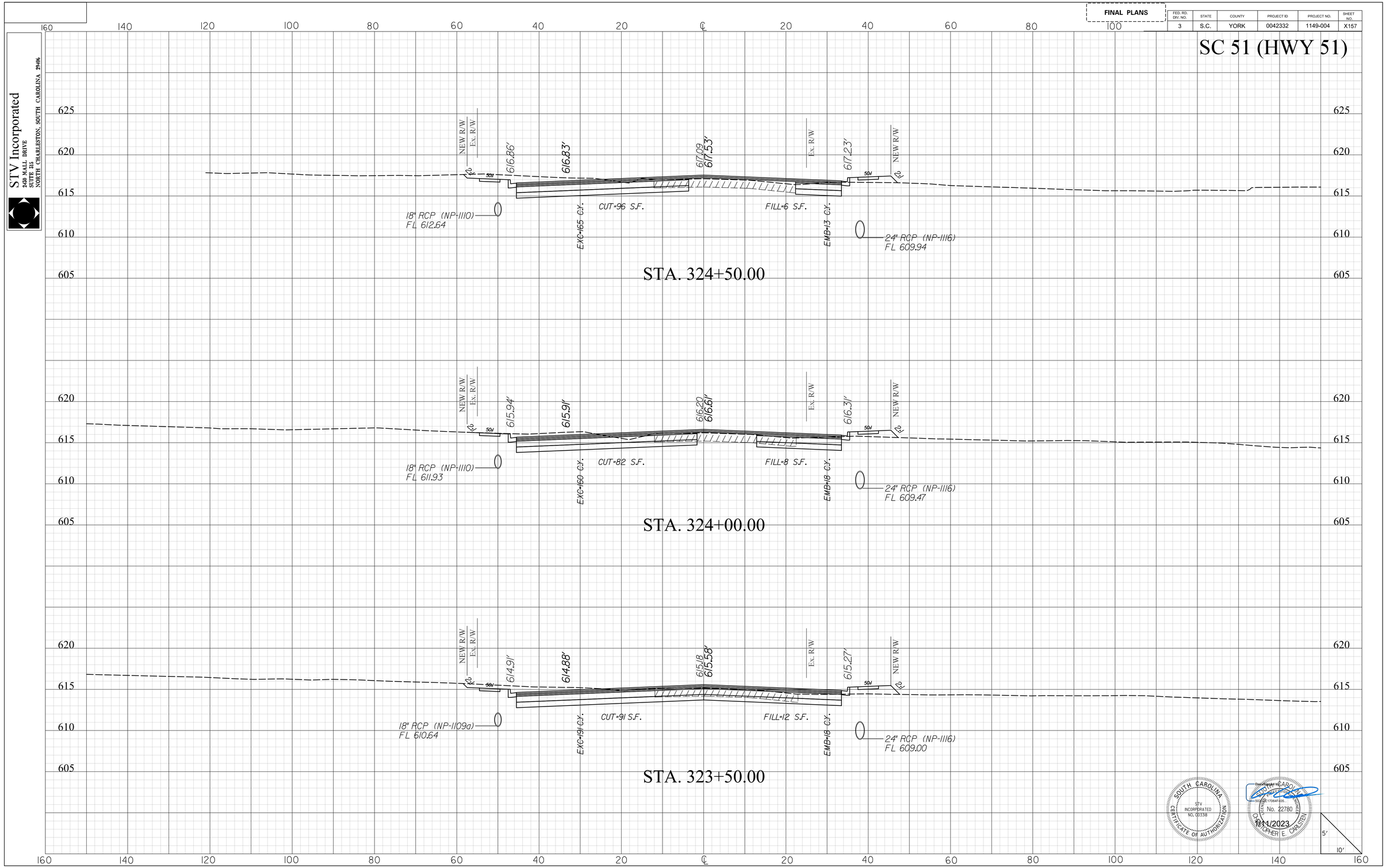
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X157

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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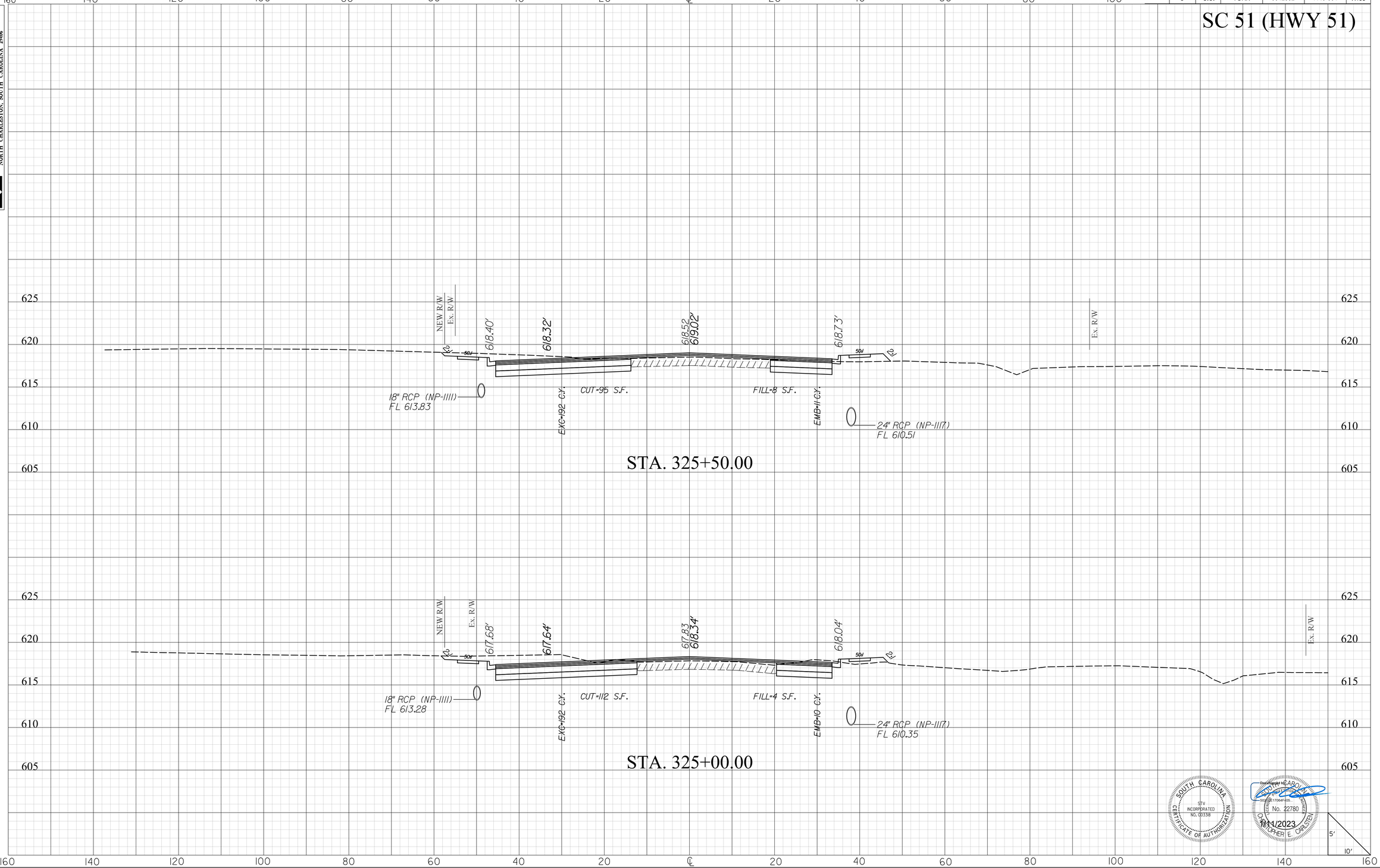
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X158

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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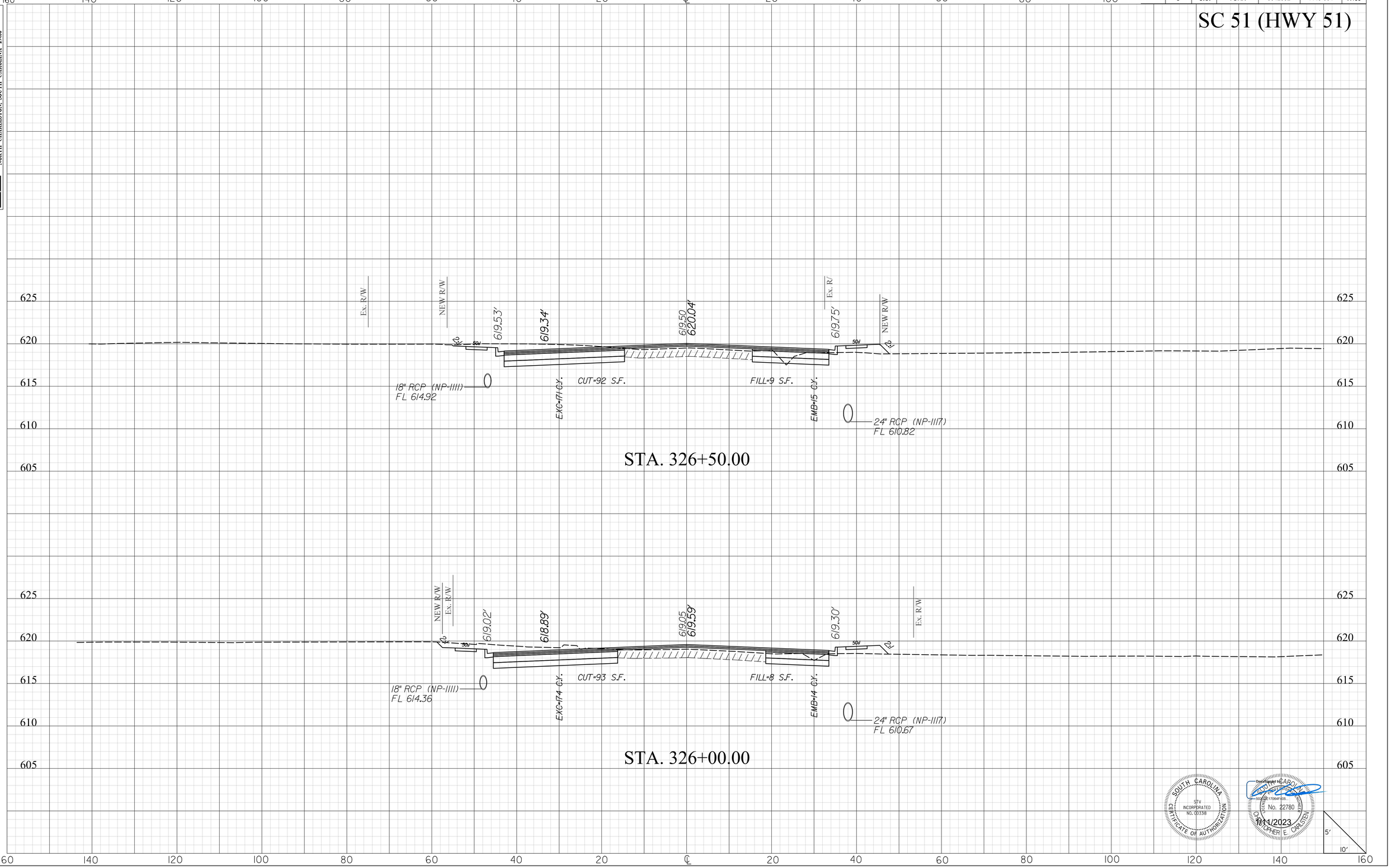
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X159

SC 51 (HWY 51)



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1/10/2023

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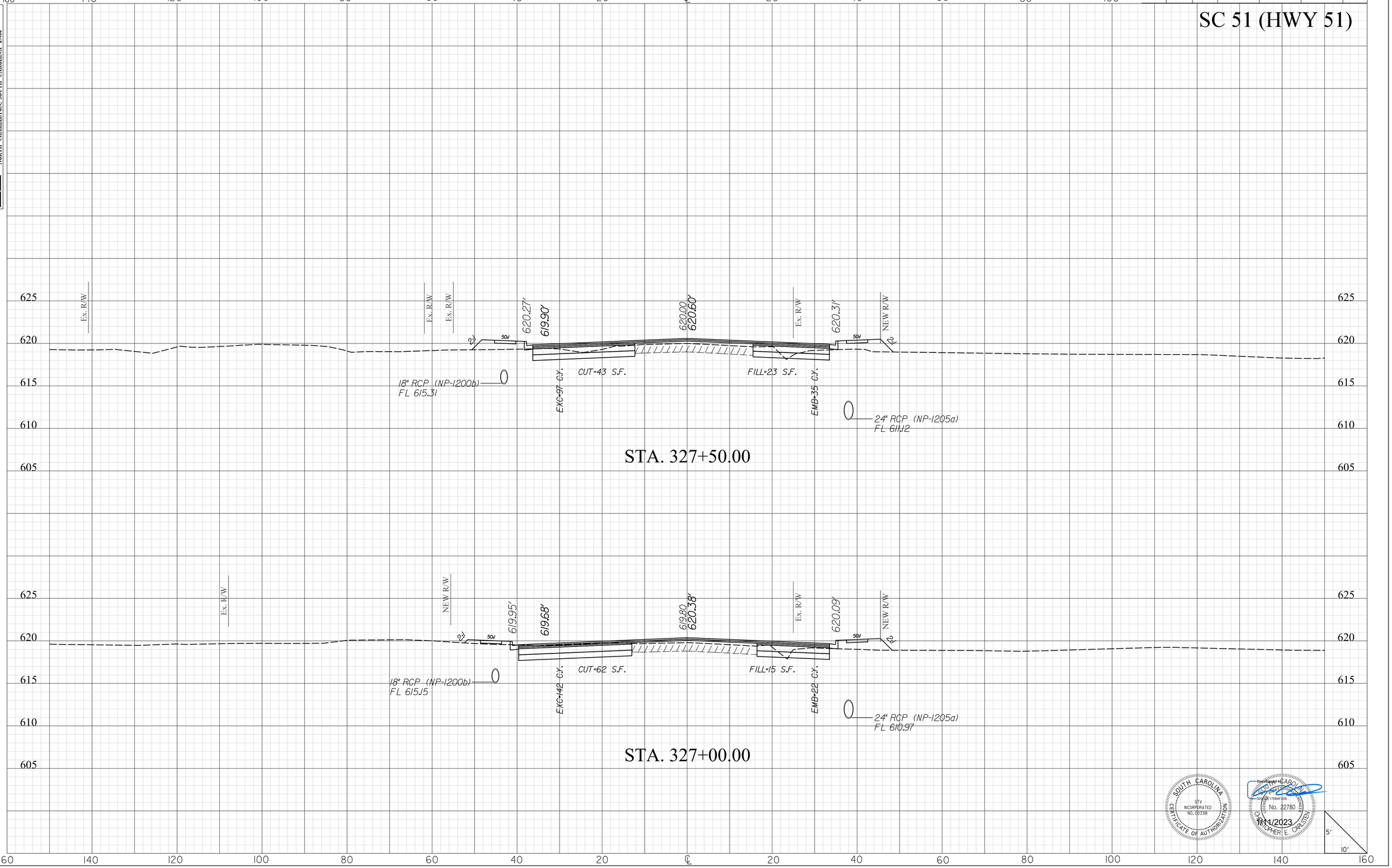
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X160

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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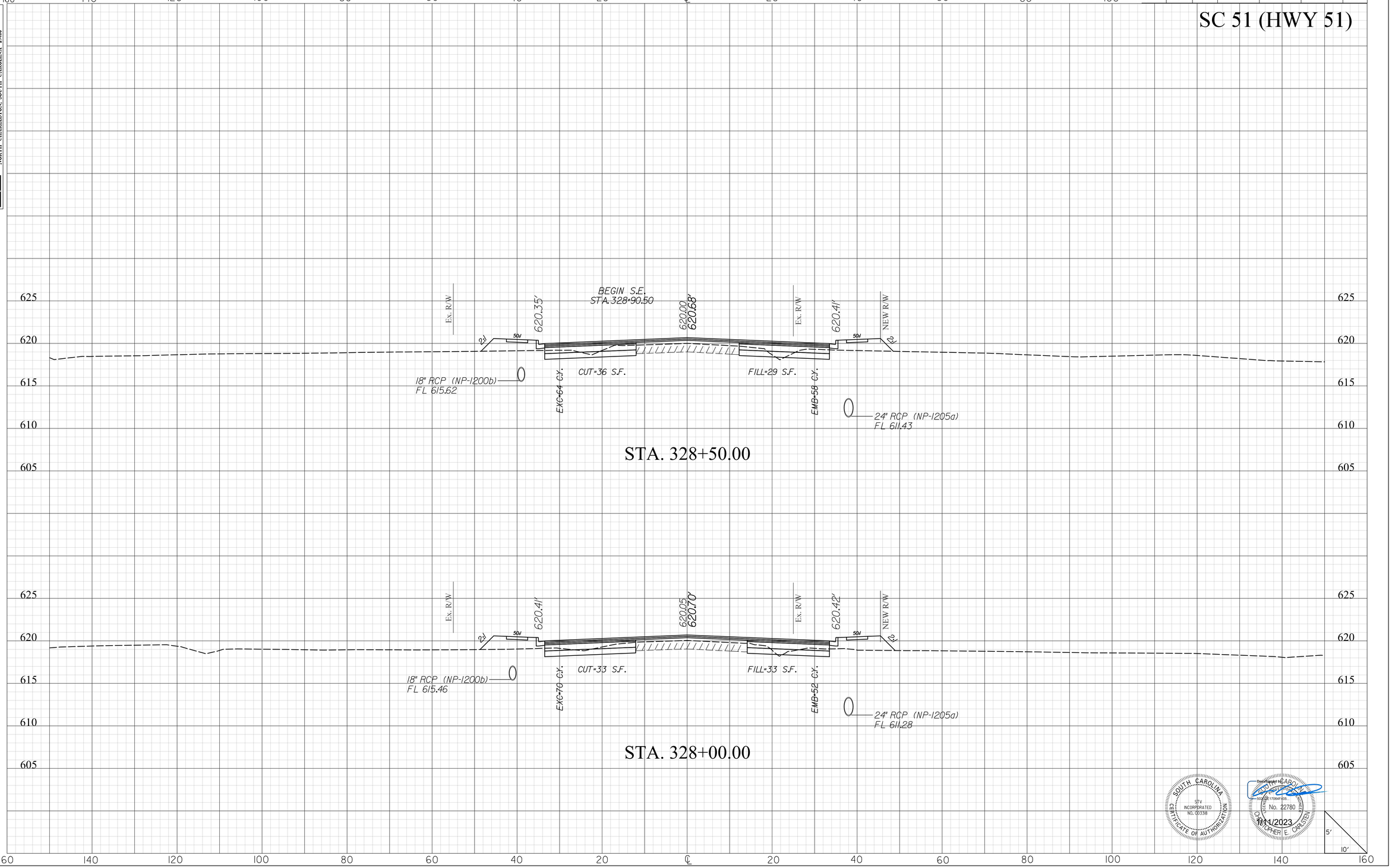
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X161

SC 51 (HWY 51)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CHRISTEN
No. 22780
1/4/2023

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1/10/2023

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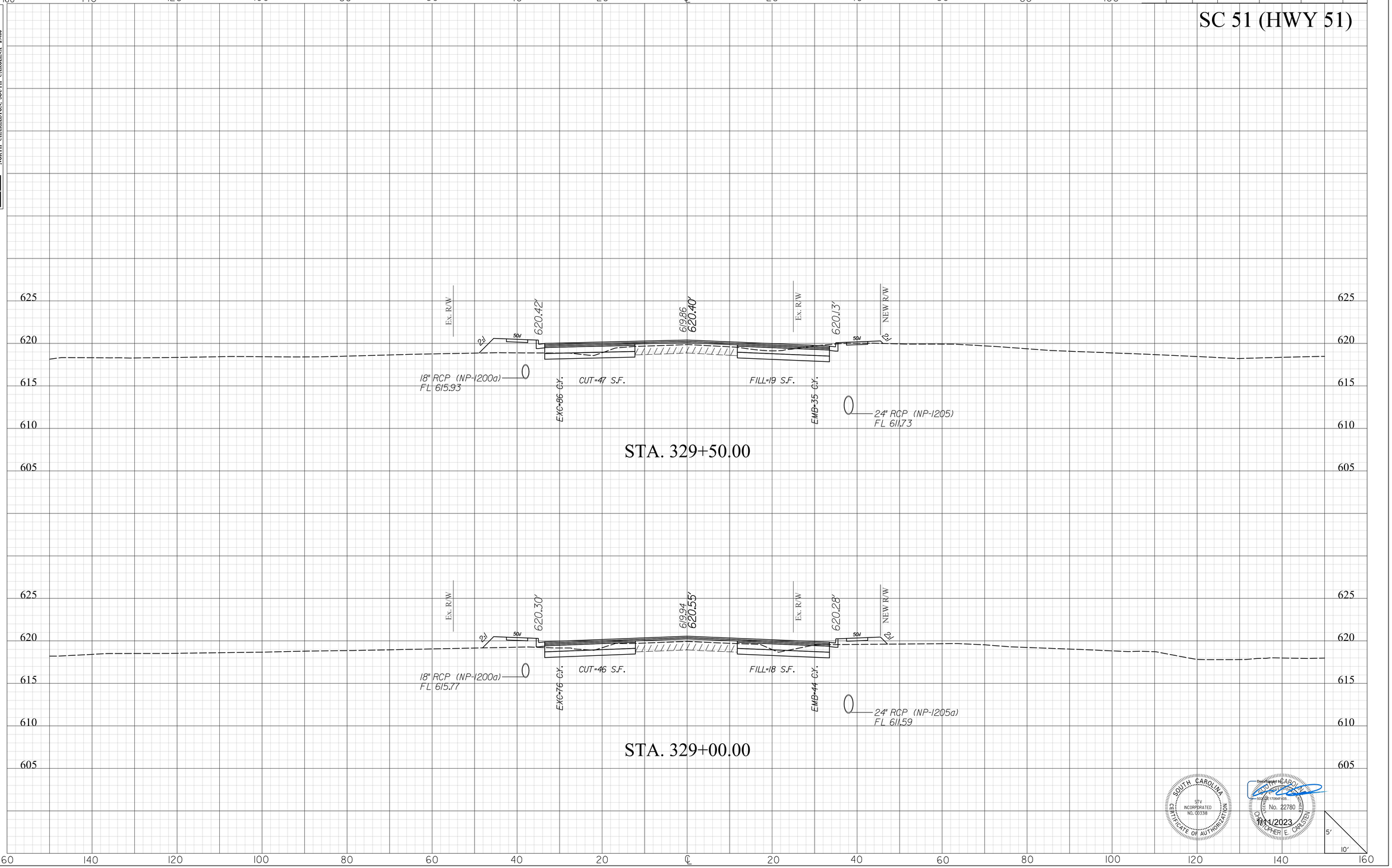
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X162

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 003318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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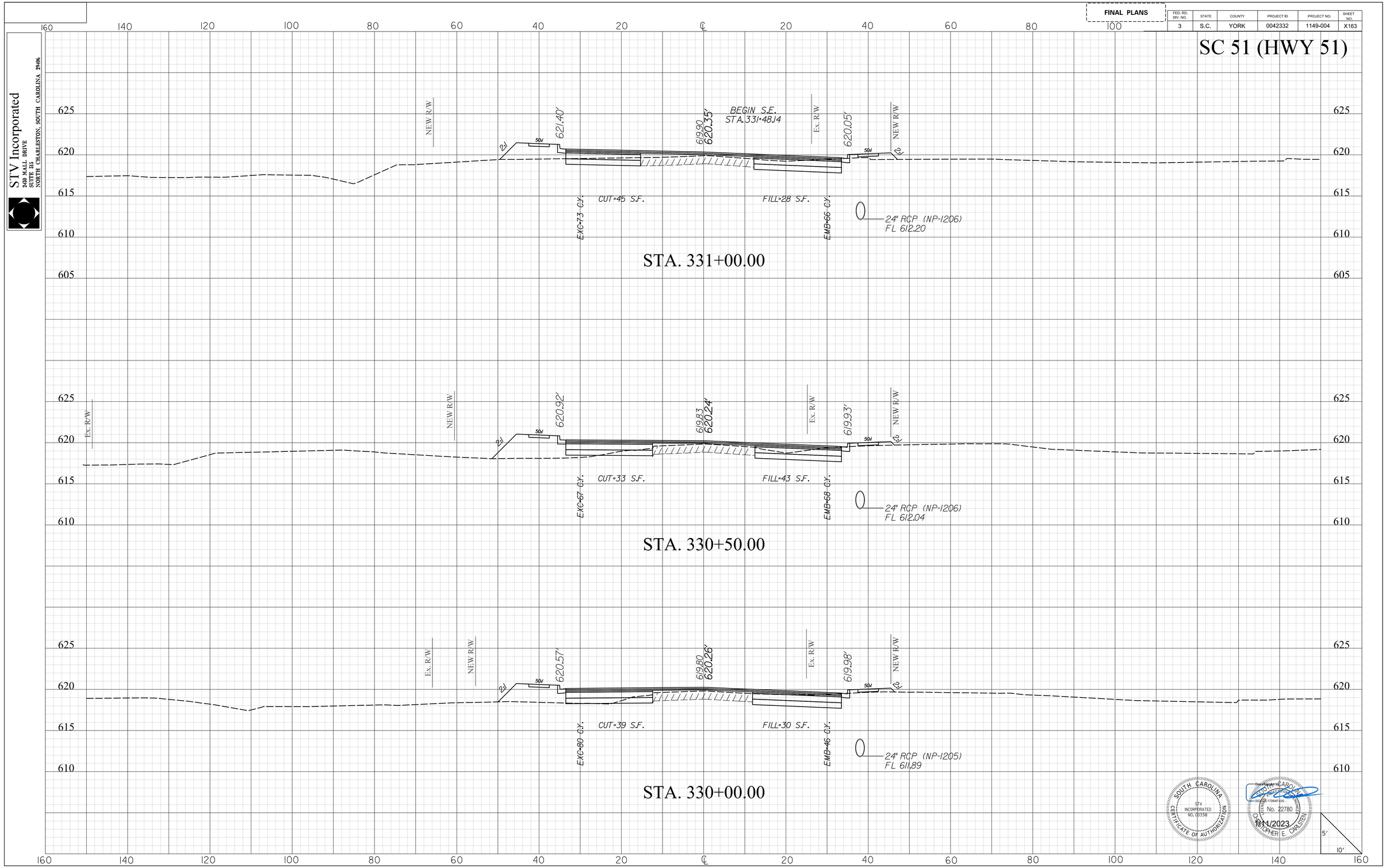
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X163

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X164

SC 51 (HWY 51)

STA. 332+50.00

S-328 (ANDREW L TUCKER RD)
620.96
621.50'
Ex. R/W
621.06'
NEW R/W
50'
2:1
CUT=19 S.F.
EXC=35 C.Y.
FILL=15 S.F.
EMB=89 C.Y.
24" RCP (NP-1206b)
FL 612.66

STA. 332+00.00

Ex. R/W
4:1
50'
622.37'
620.41'
620.98'
Ex. R/W
620.56'
NEW R/W
50'
2:1
CUT=19 S.F.
EXC=48 C.Y.
FILL=188 S.F.
EMB=263 C.Y.
24" RCP (NP-1206a)
FL 612.51

STA. 331+50.00

BEGIN MAX S.E.
STA. 331+71.09
Ex. R/W
NEW R/W
4:1
50'
621.88'
620.11'
620.60'
Ex. R/W
620.24'
NEW R/W
50'
2:1
CUT=33 S.F.
EXC=72 C.Y.
FILL=96 S.F.
EMB=115 C.Y.
24" RCP (NP-1206a)
FL 612.35

SOUTH CAROLINA
STV INCORPORATED
NO. C01338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

5'
10'

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

625 620 615 610 605

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1/10/2023

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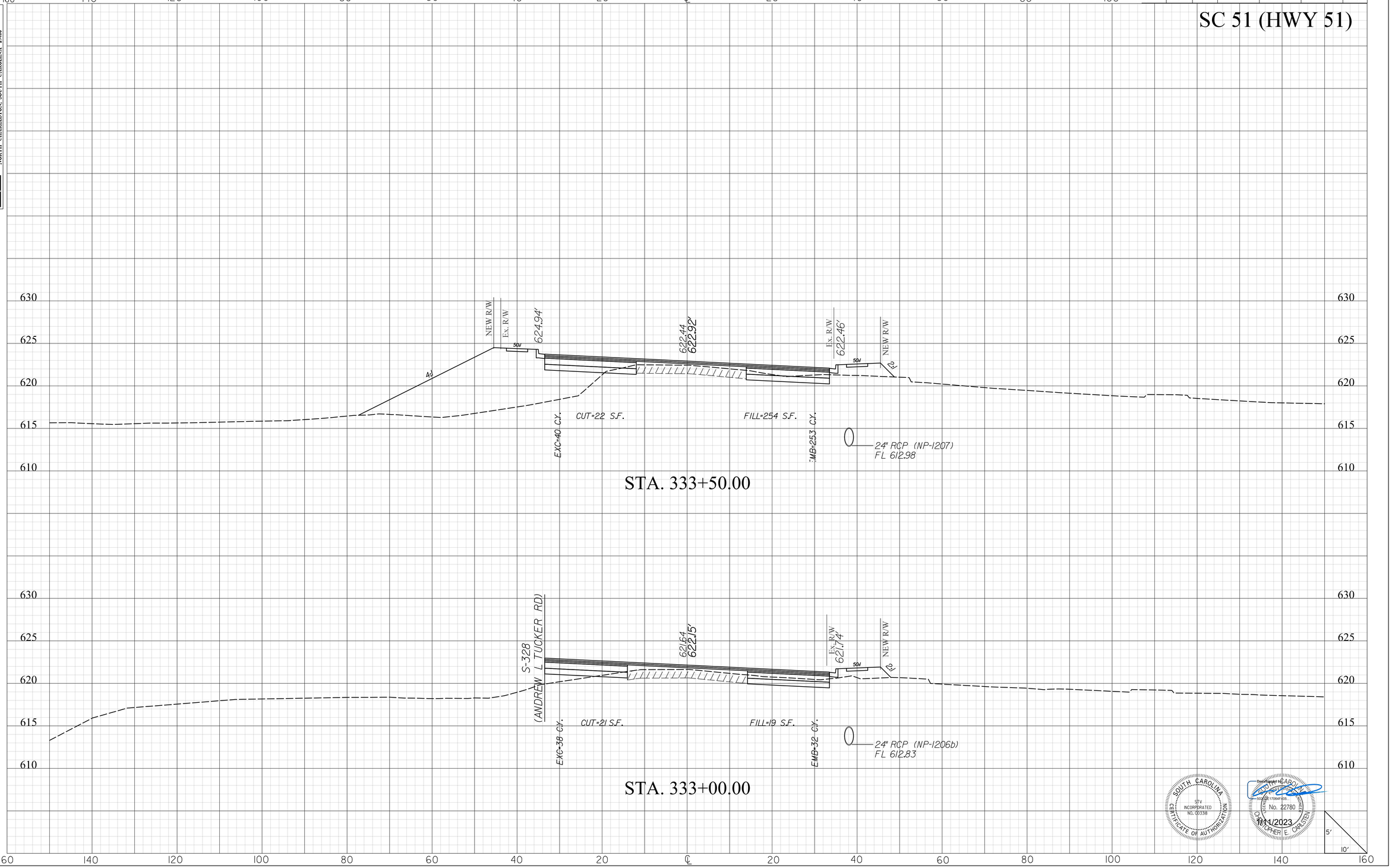
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X165

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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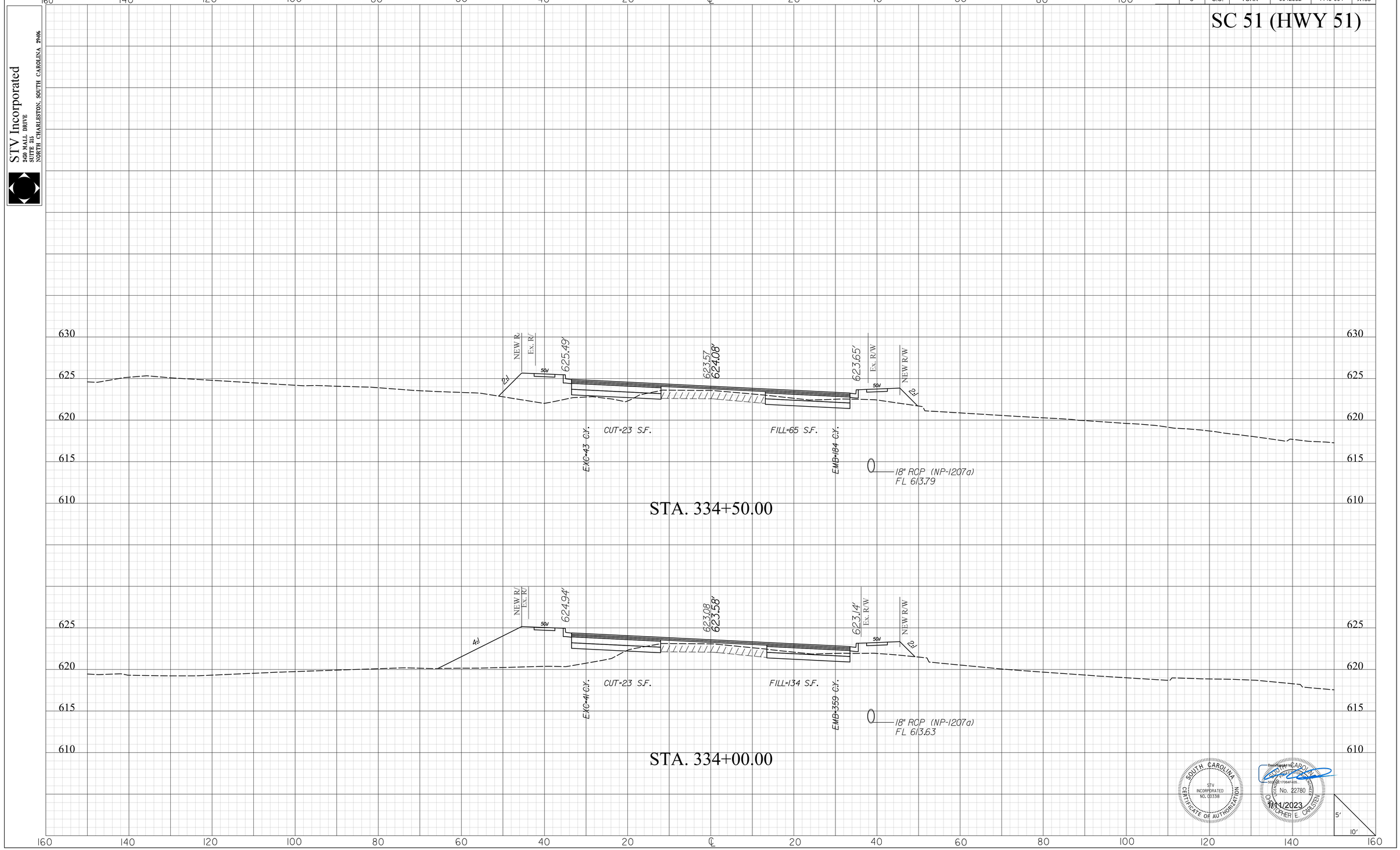
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X166

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 003318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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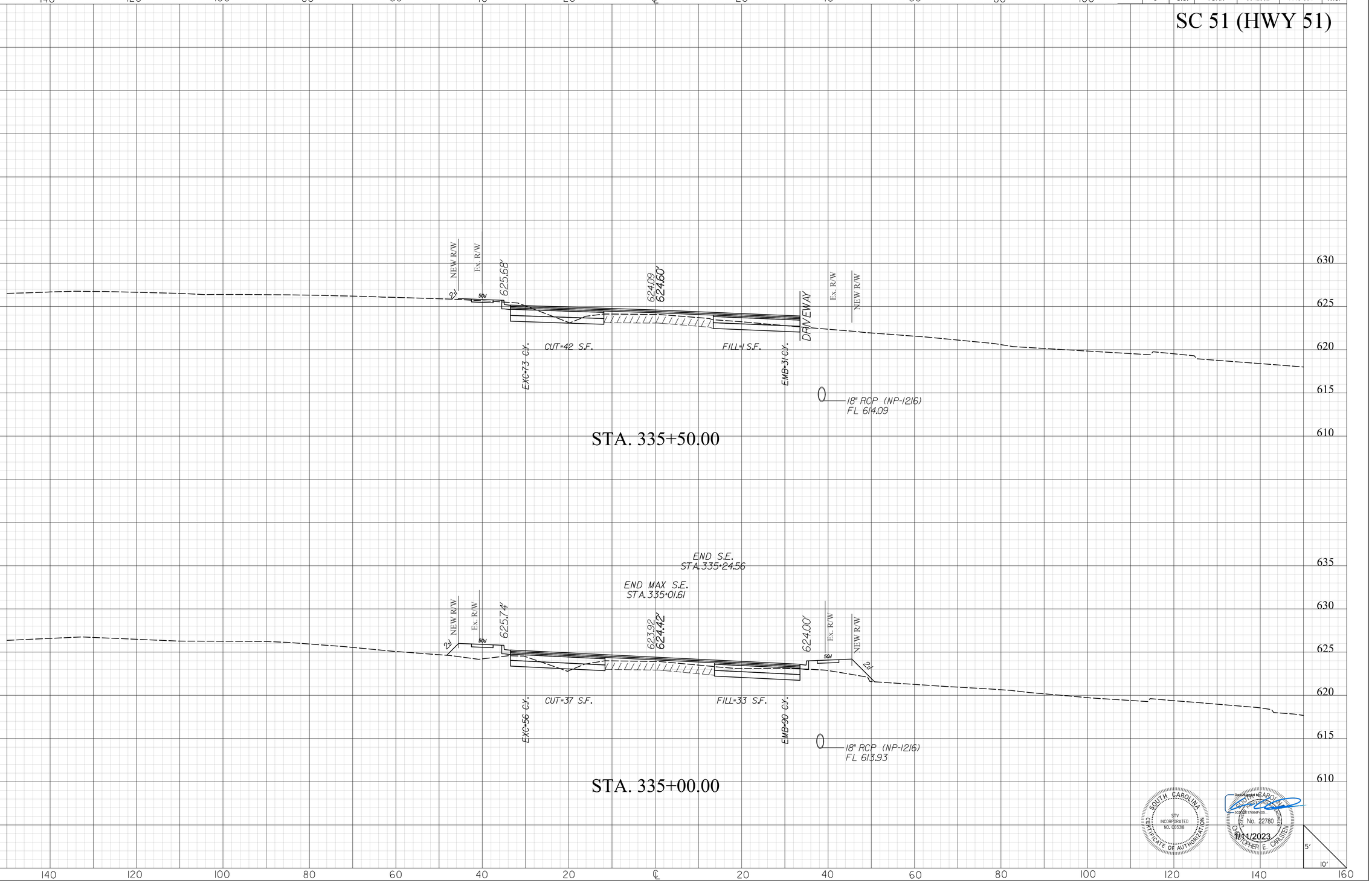
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X167

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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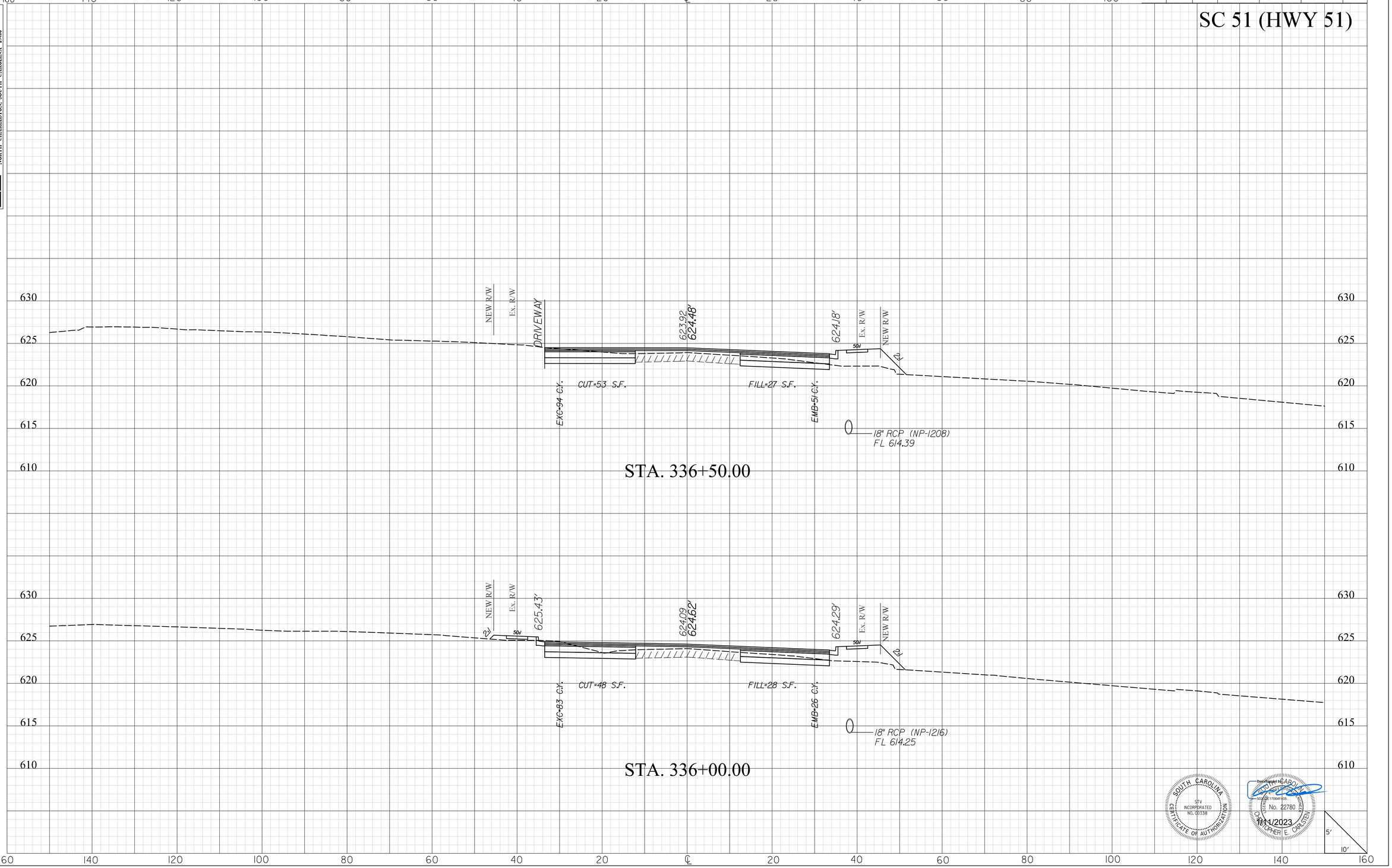
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X168

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

20X5.DGN

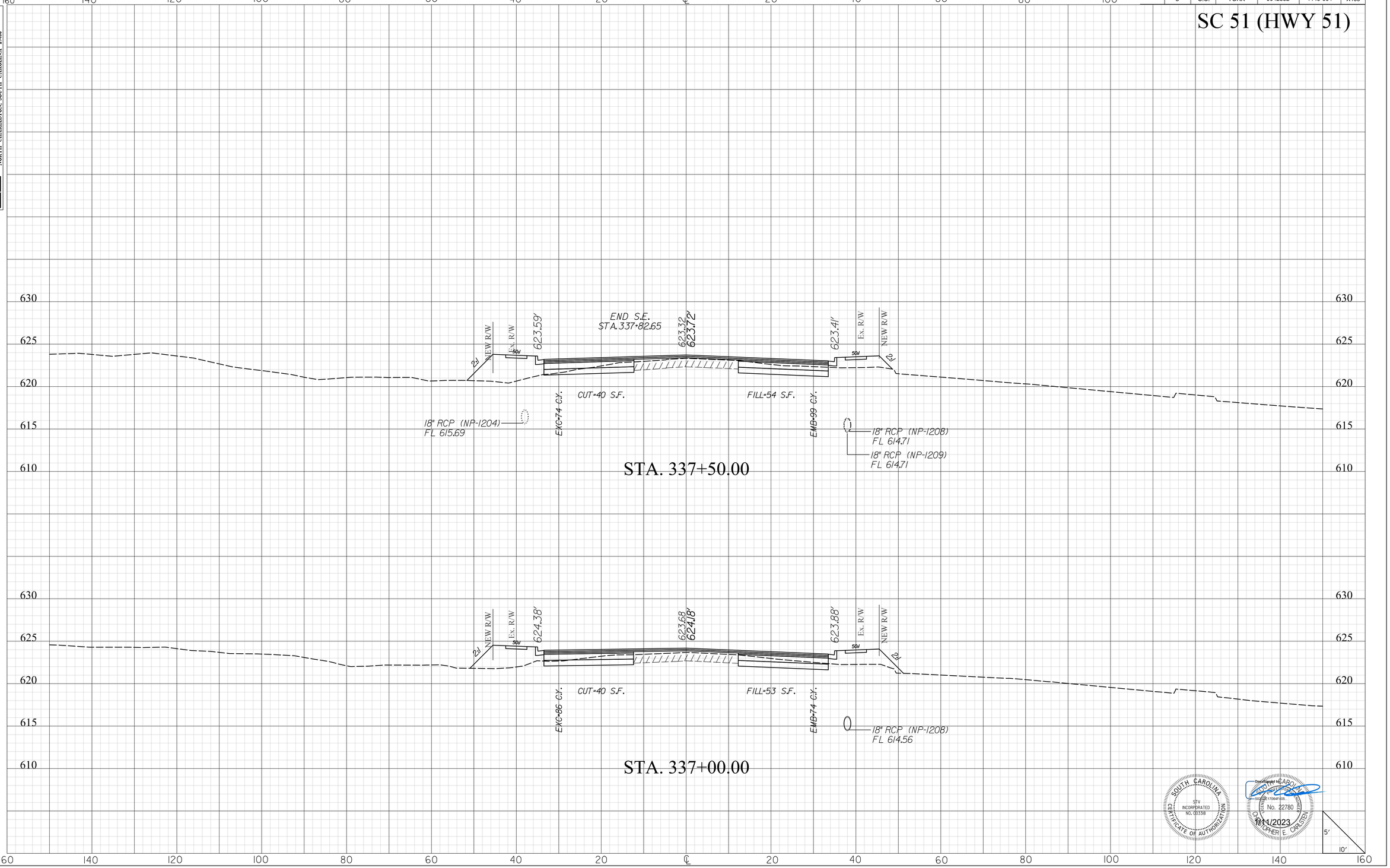
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X169

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 11/1/2023

mastiltg
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1/10/2023

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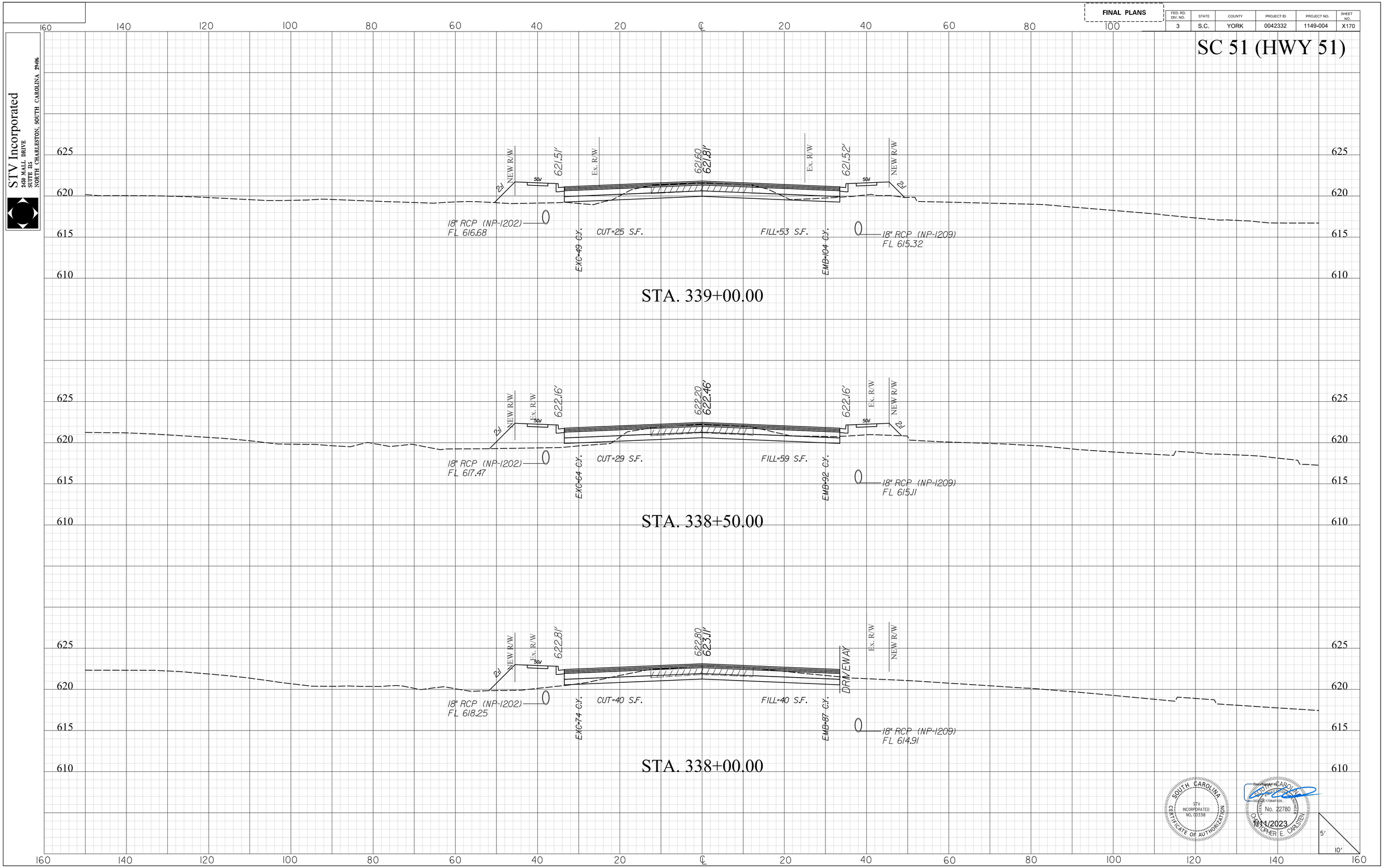
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X170

SC 51 (HWY 51)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 11/1/2023

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1/10/2023

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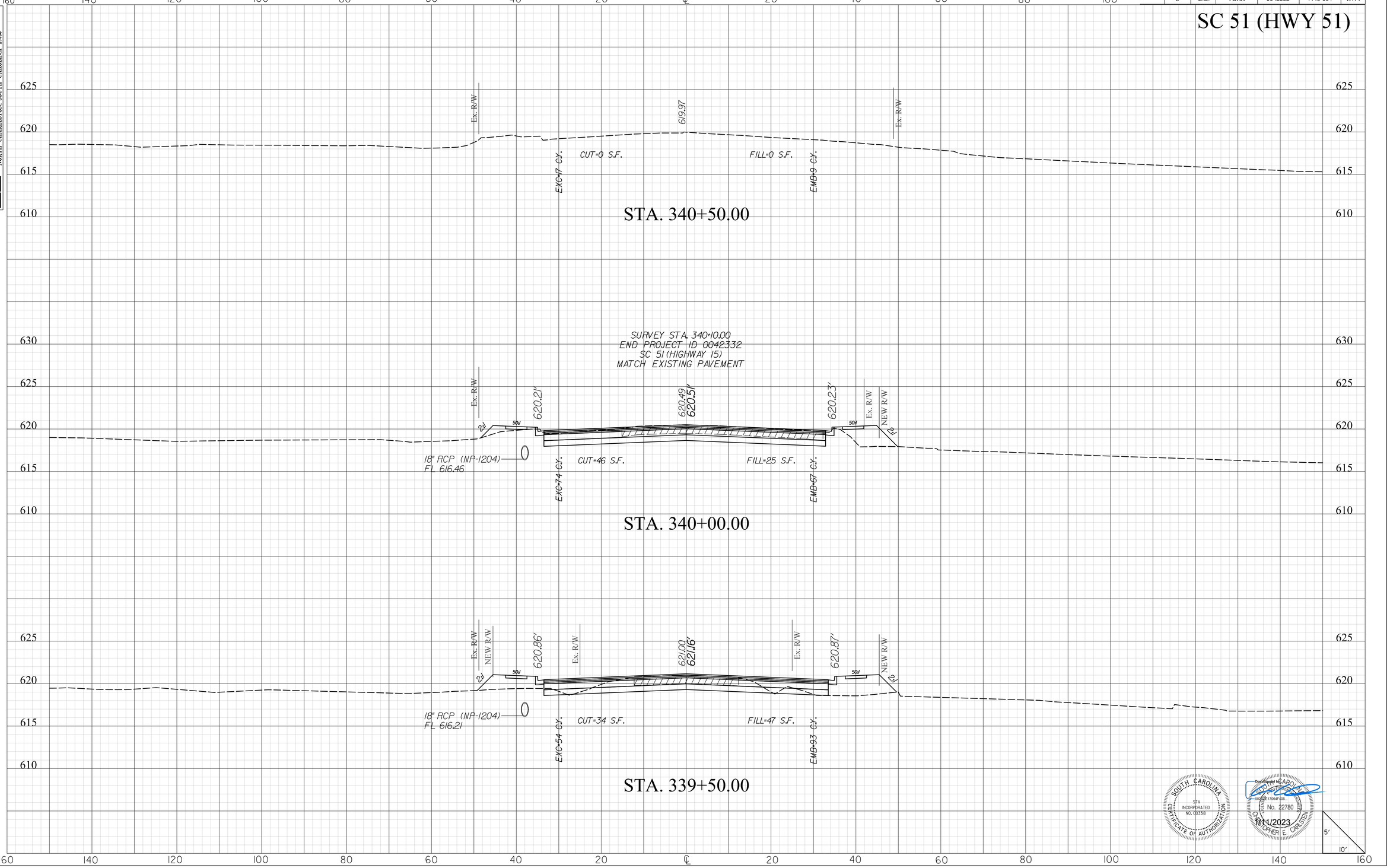
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X171

SC 51 (HWY 51)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Professional Engineer
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

masflitg
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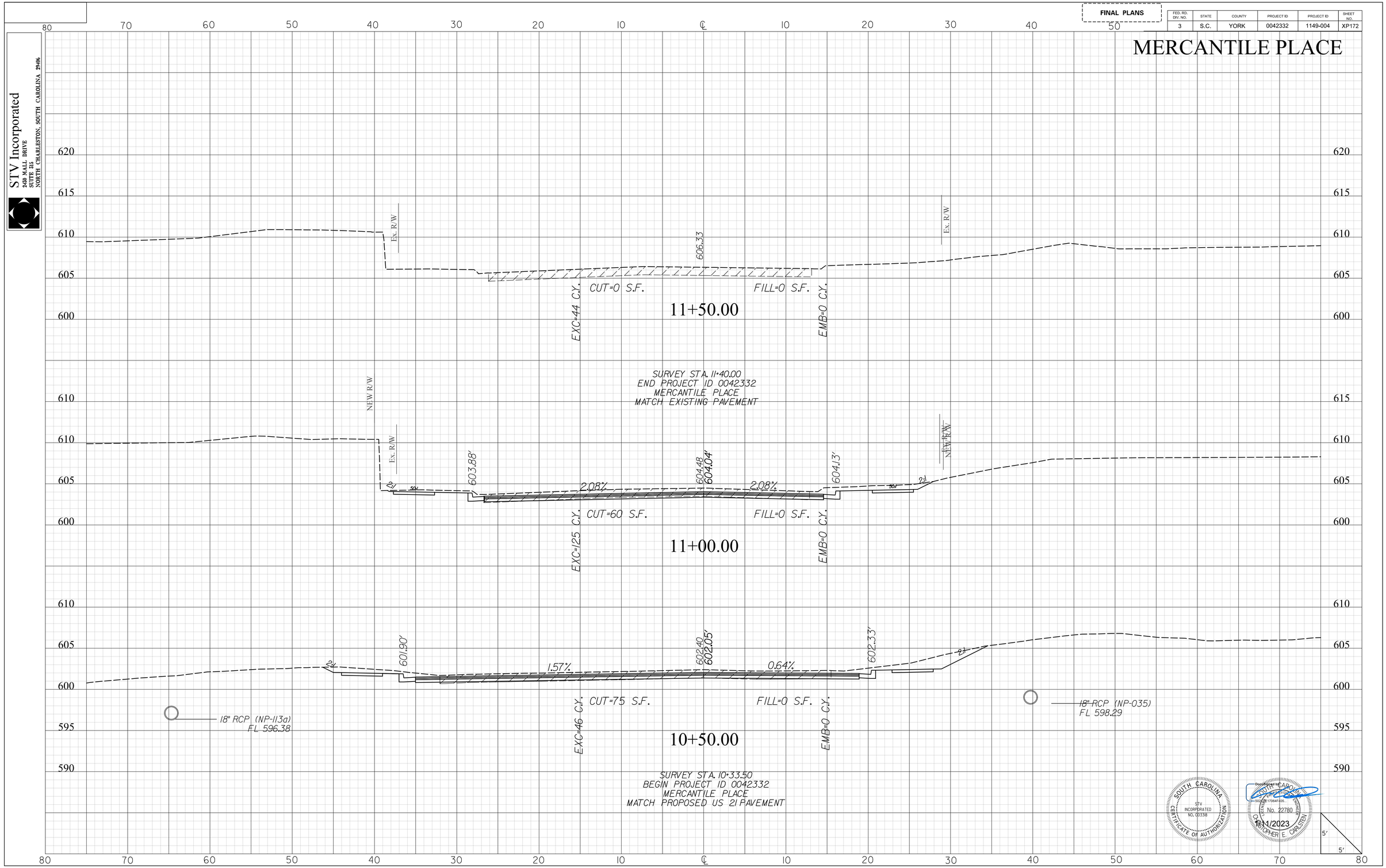
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP172

MERCANTILE PLACE

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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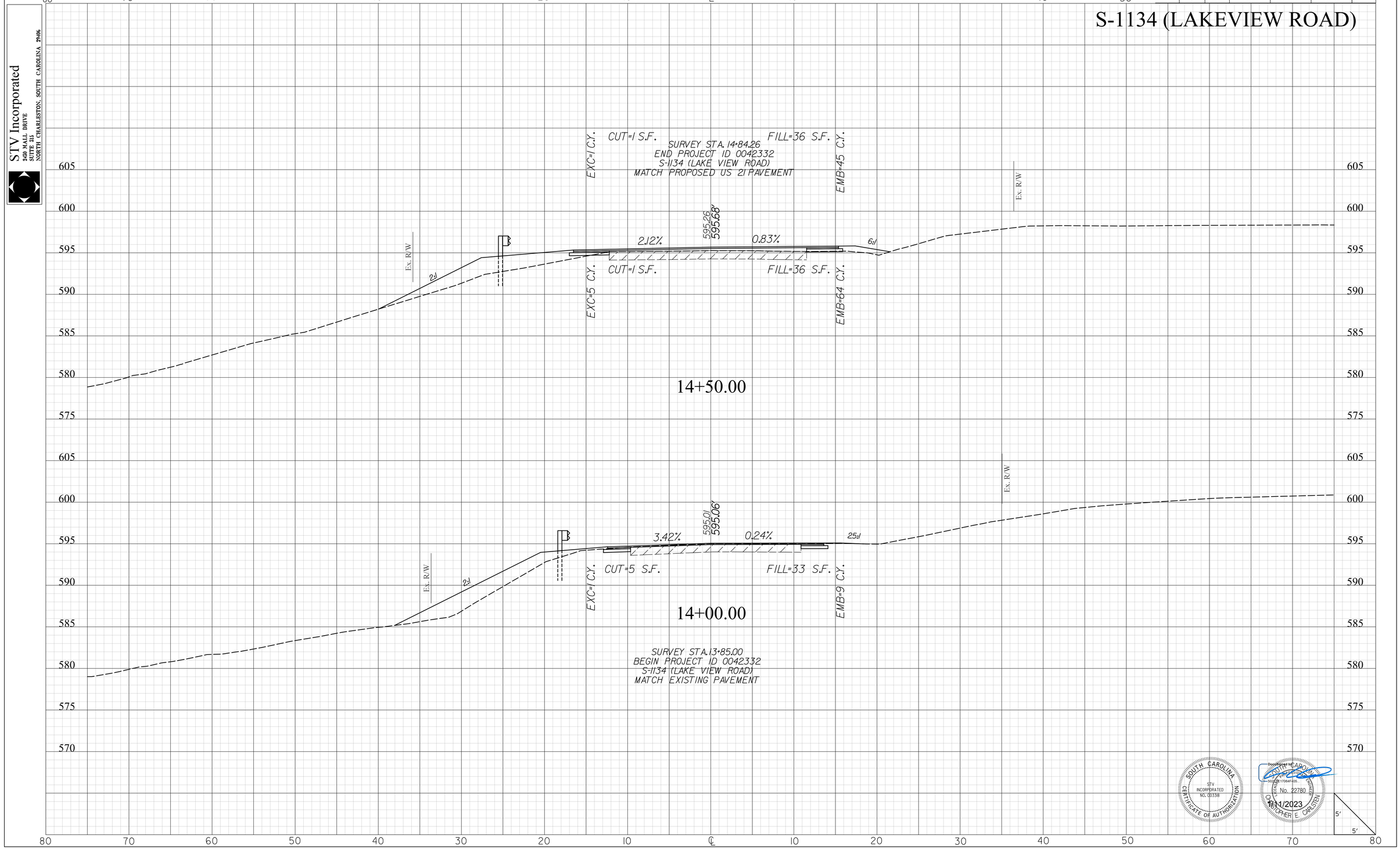
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP173

S-1134 (LAKEVIEW ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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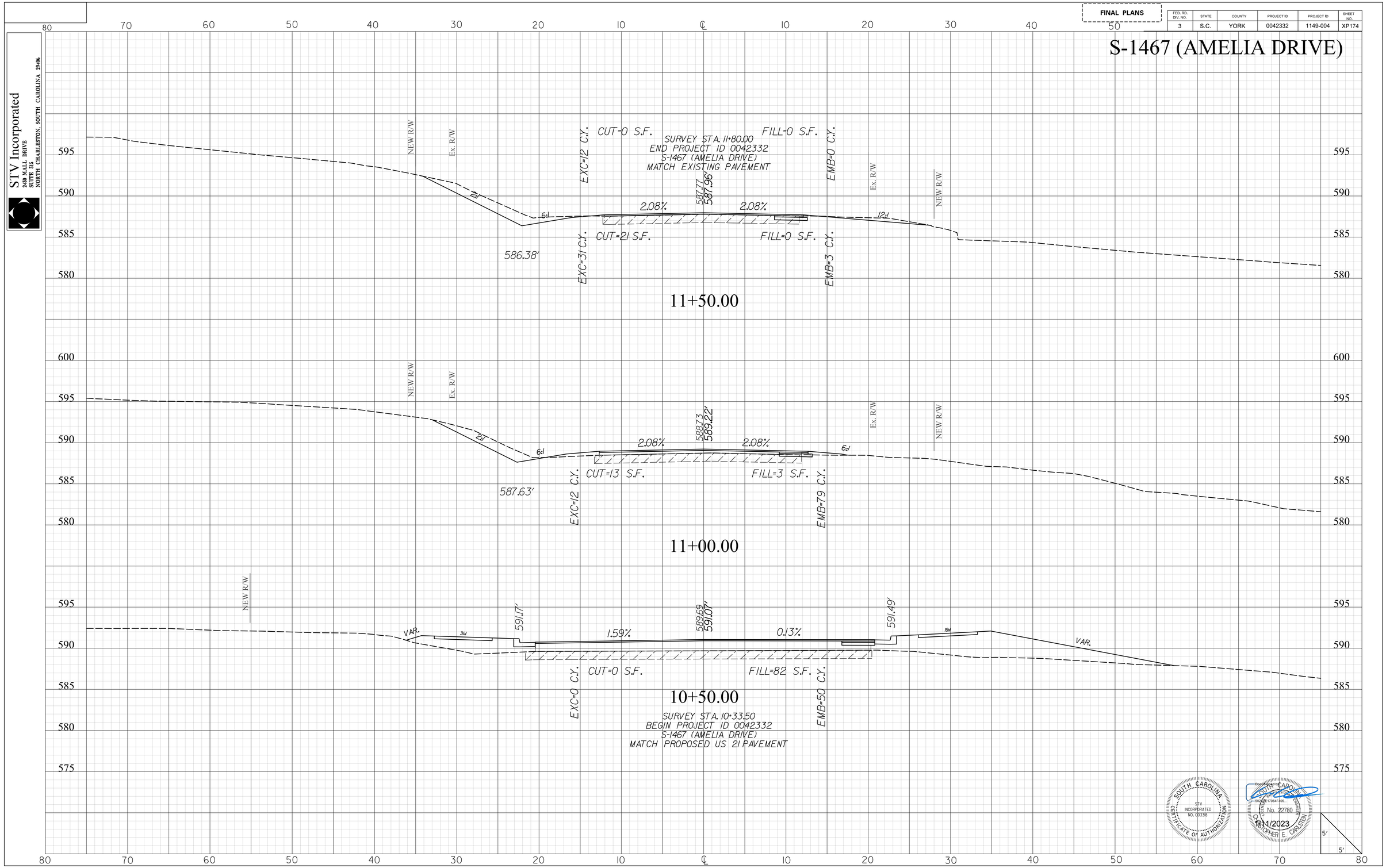
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP174

S-1467 (AMELIA DRIVE)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

Registered in SOUTH CAROLINA 50F2E8E17064F405... No. 22780 CHRISTOPHER E. CARSTEN 10/31/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP175

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1469 (FERN FOREST COURT)

11+50.00

CUT=0 S.F. FILL=0 S.F.

SURVEY STA. 11+65.00
END PROJECT ID 0042332
S-1469 (FERN FOREST CT.)
MATCH EXISTING PAVEMENT

EXC=1 C.Y. EMB=0 C.Y.

Ex. R/W

589.81
589.92

4.00% 2.70%

4:1 6:1

CUT=4 S.F. FILL=1 S.F.

EXC=5 C.Y. EMB=20 C.Y.

11+00.00

NEW R/W Ex. R/W Ex. R/W

587.92
588.54

4.00% 4.00%

2:1 4:1 2:1

586.80'

CUT=1 S.F. FILL=21 S.F.

EXC=4 C.Y. EMB=406 C.Y.

10+50.00

NEW R/W Ex. R/W Ex R/W NEW R/W

587.76' 586.46 587.77' 588.48'

8:1 1.47% 1.83% 7:1 4:1 2:1

VAR.

583.20'
24" RCP (NP-200b)
FL 579.39

CUT=3 S.F. FILL=417 S.F.

EXC=2 C.Y. EMB=255 C.Y.

SURVEY STA. 10+33.50
BEGIN PROJECT ID 0042332
S-1469 (FERN FOREST CT.)
MATCH PROPOSED US 21 PAVEMENT

SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
Date: 2023.01.11 09:47:49 -05'00'
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER E. CARLSTEN
1/11/2023

5' 5'

masttlg
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1/10/2023

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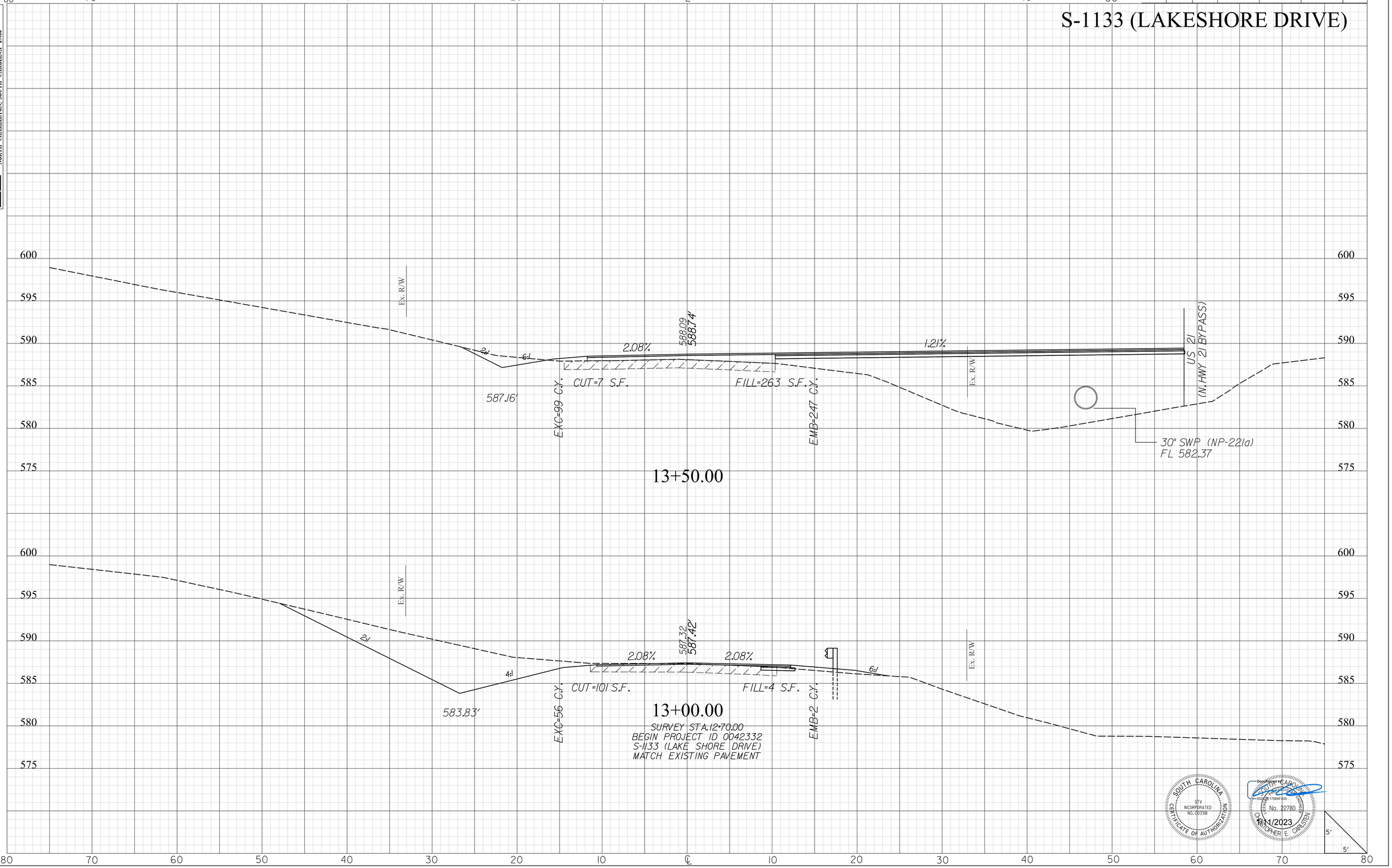
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP176

S-1133 (LAKESHORE DRIVE)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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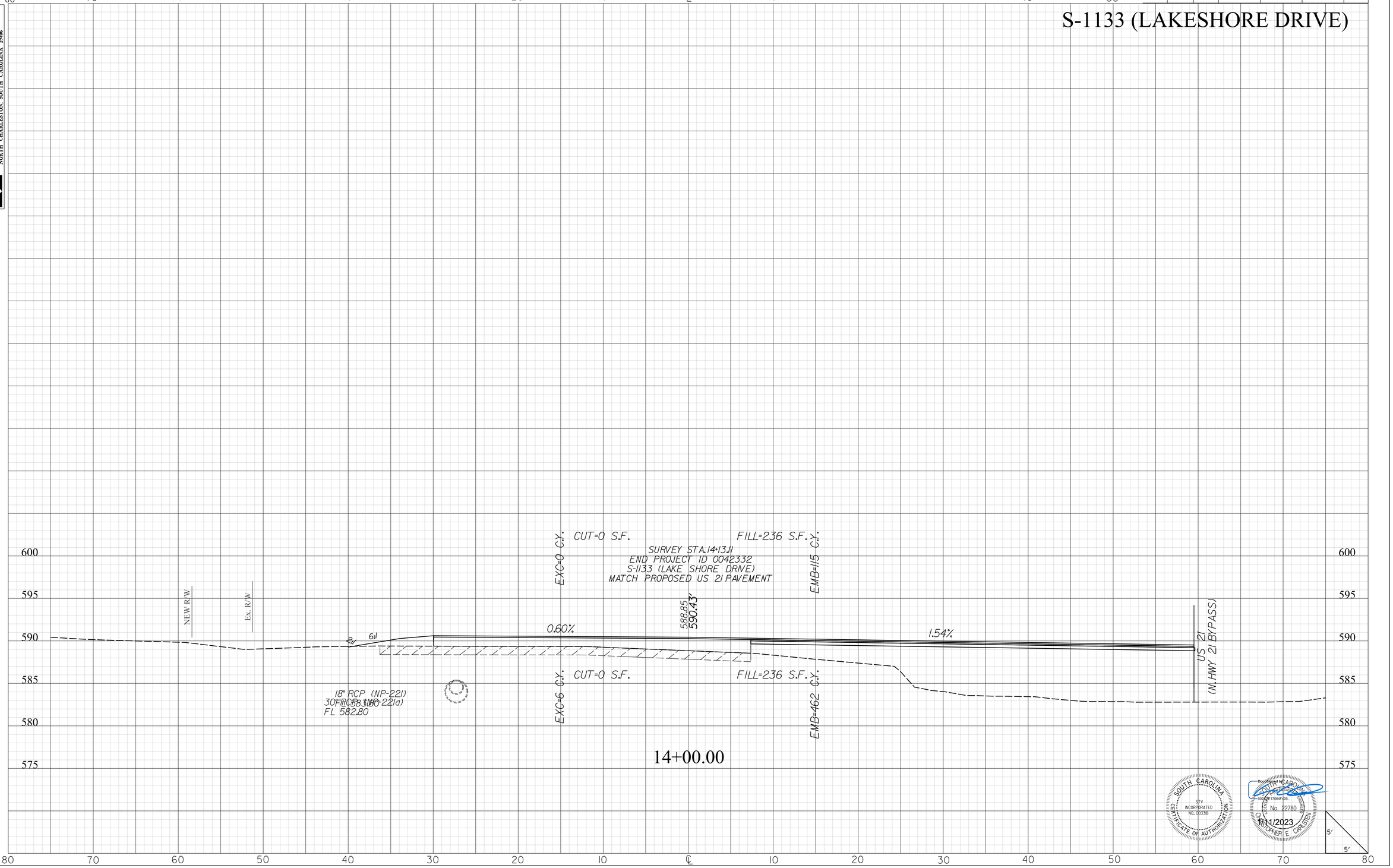
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP177

S-1133 (LAKESHORE DRIVE)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. 000338

Digitally signed by CHRISTOPHER E. CARLTON
SOUTH CAROLINA
No. 22780
10/11/2023

masflitg
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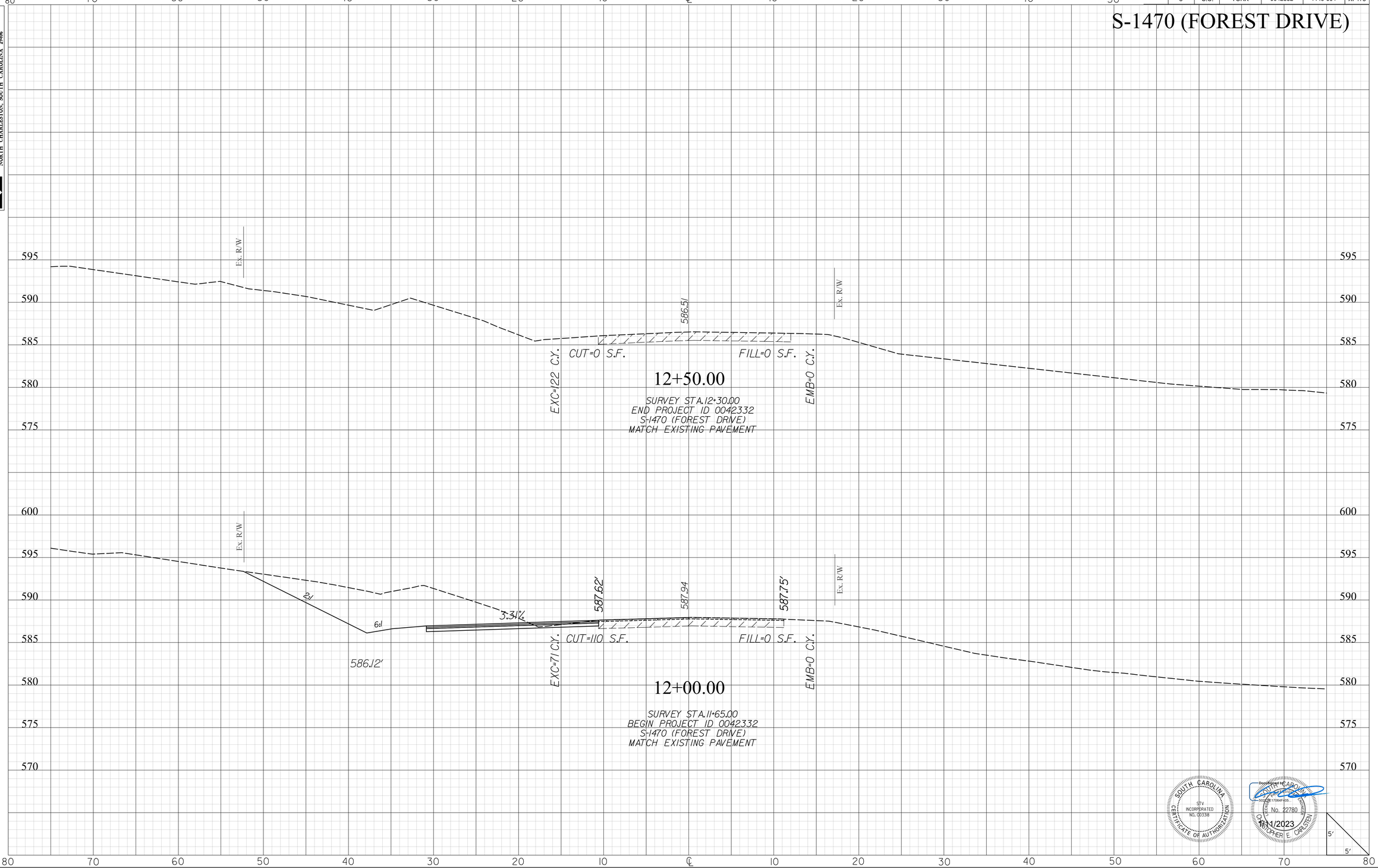
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP178

S-1470 (FOREST DRIVE)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 1/11/2023

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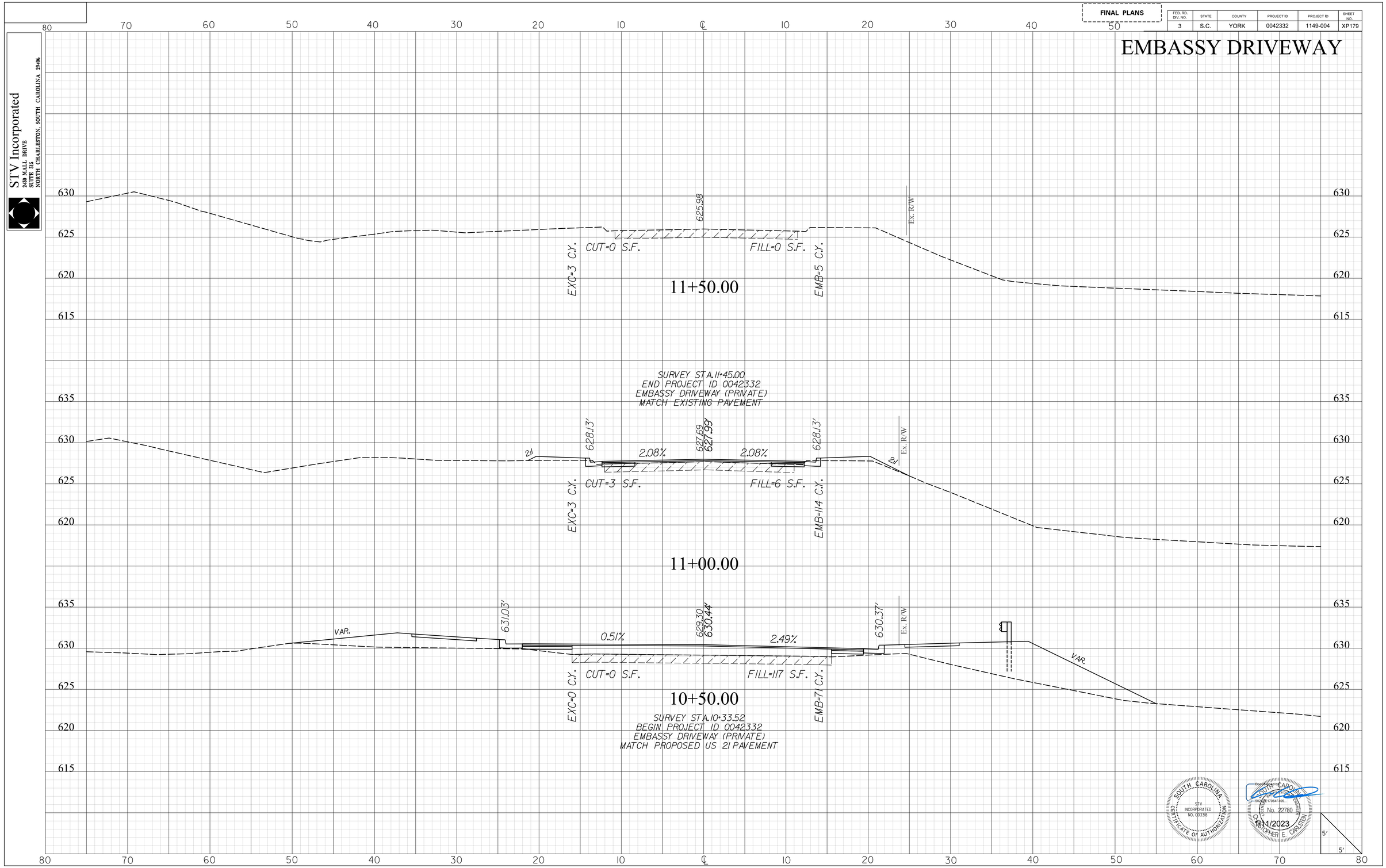
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP179

EMBASSY DRIVEWAY



SOUTH CAROLINA — STV INCORPORATED NO. 00338 — CERTIFICATE OF AUTHORIZATION

Christopher E. Carlton — No. 22780 — 11/1/2023

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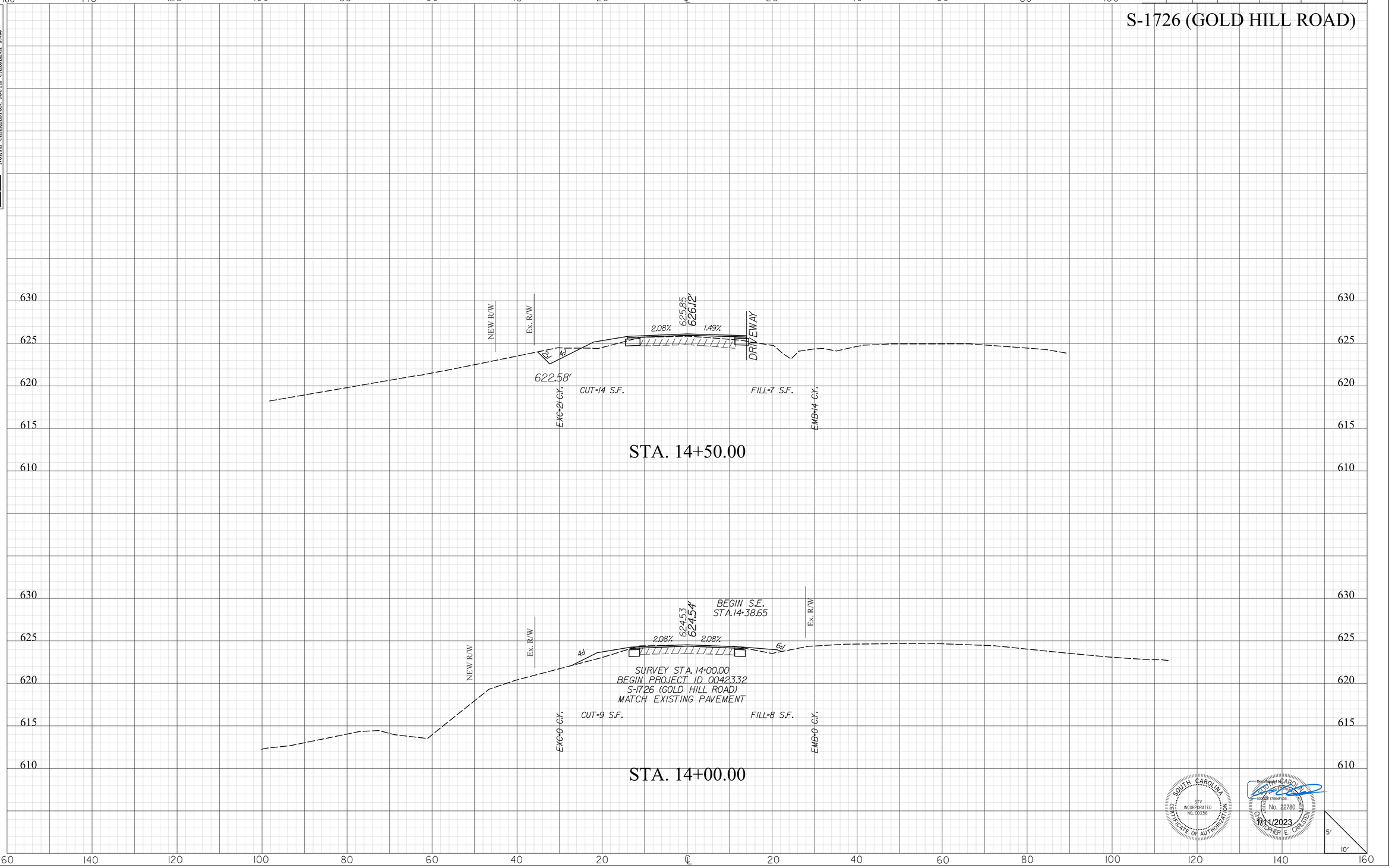
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X180

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (GOLD HILL ROAD)



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 11/1/2023 CHRISTOPHER E. CARLSTEN

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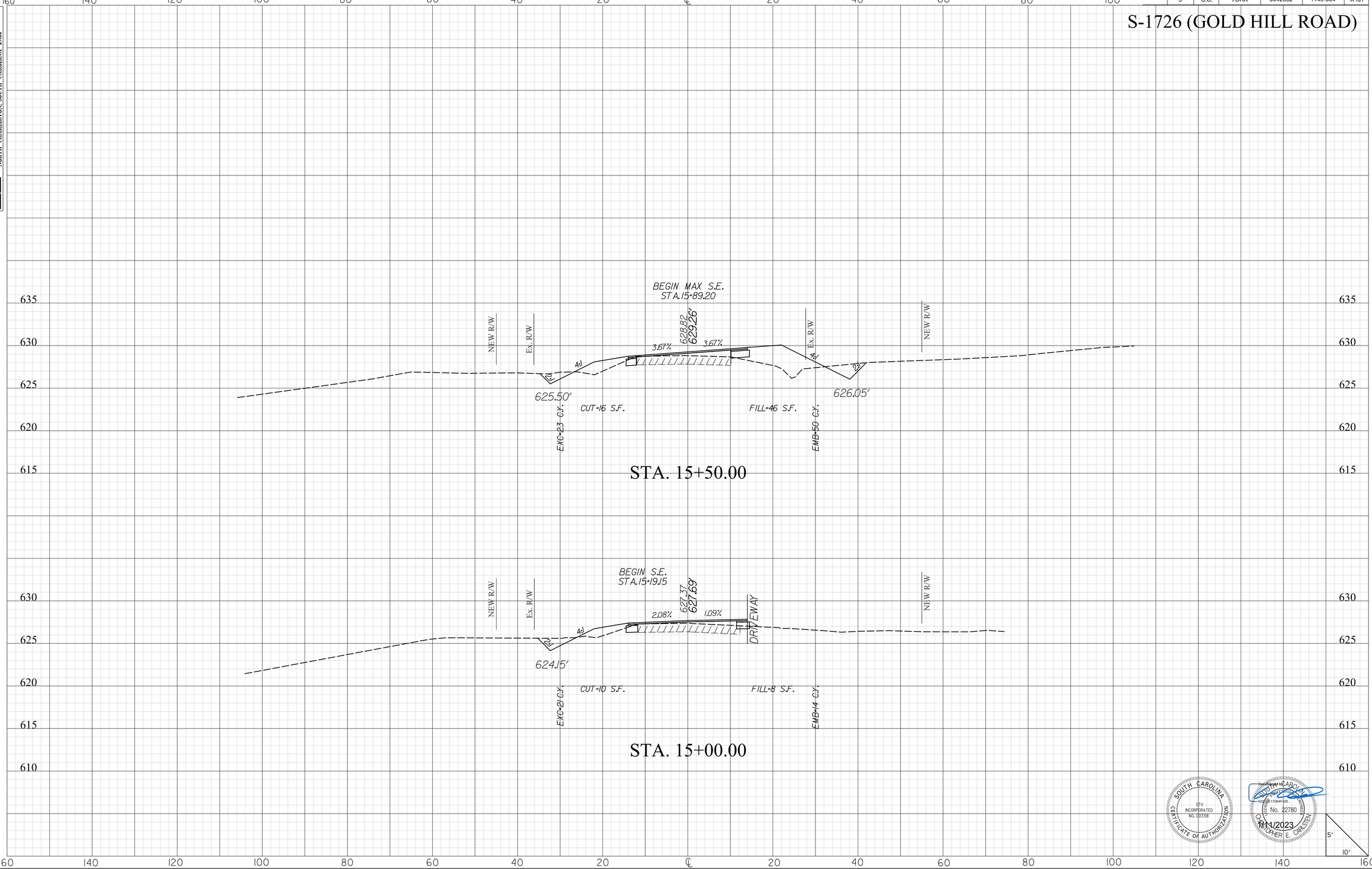
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X181

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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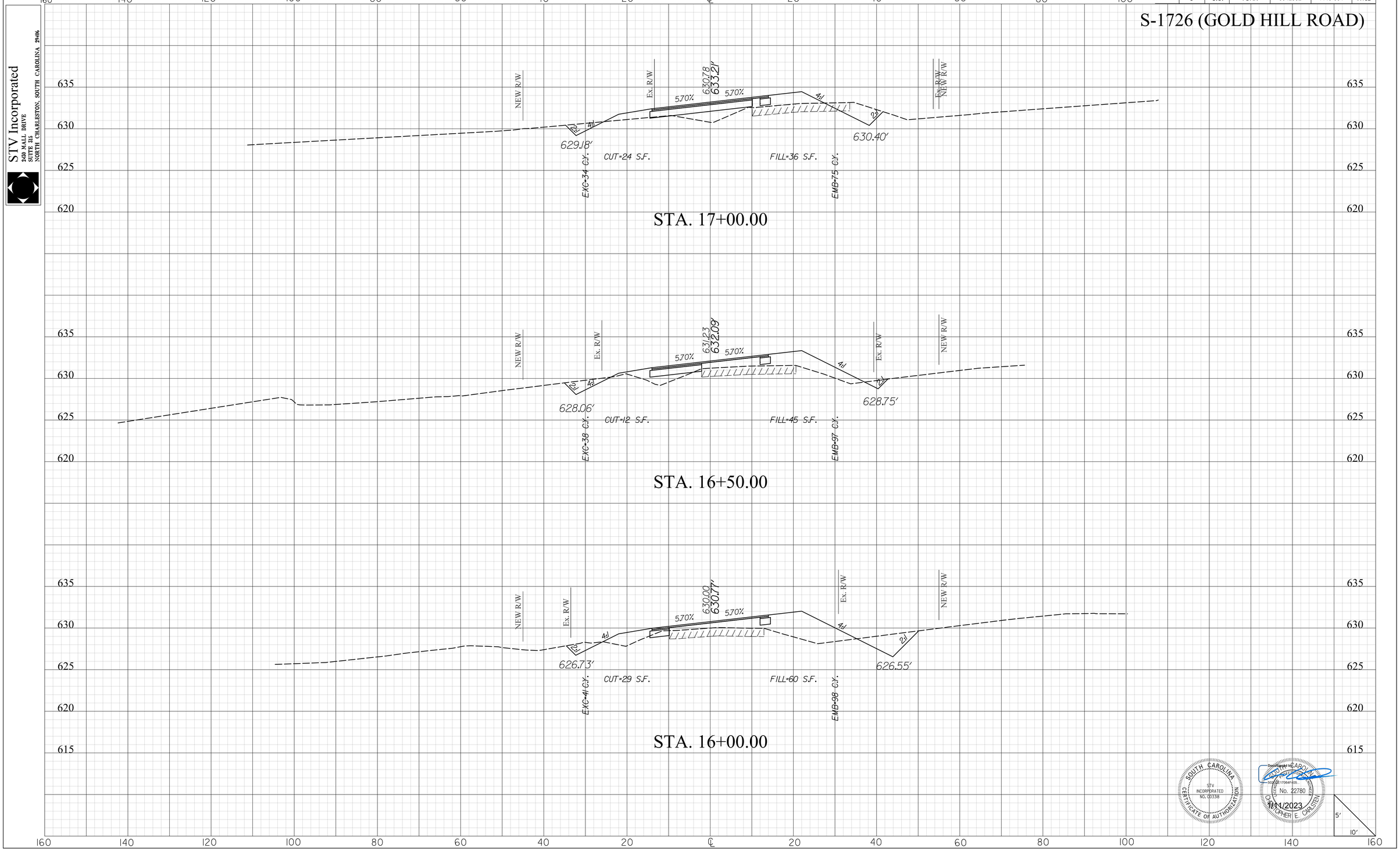
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X182

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 11/1/2023 CHRISTOPHER E. CARLSTEN

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1/10/2023

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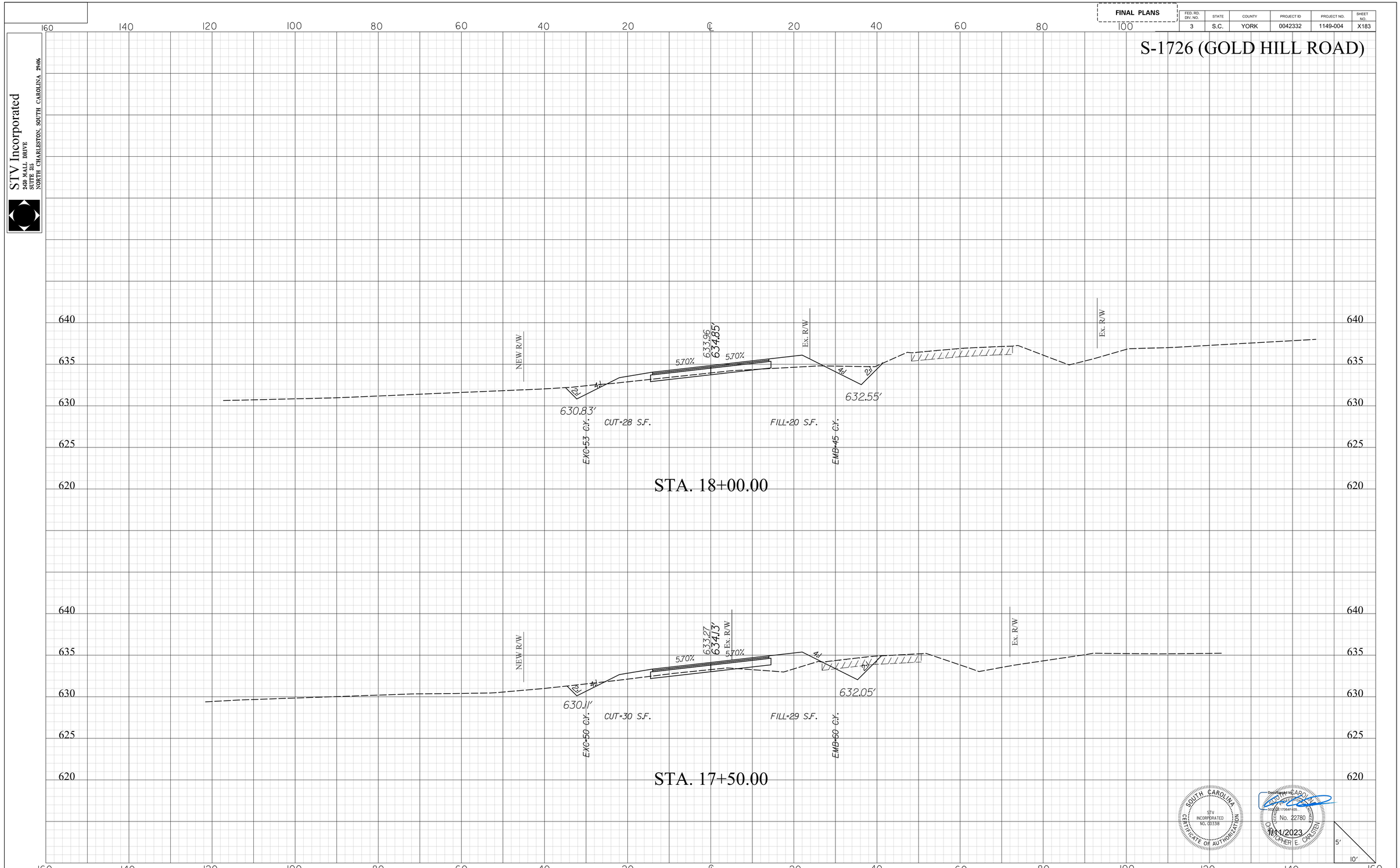
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X183

S-1726 (GOLD HILL ROAD)



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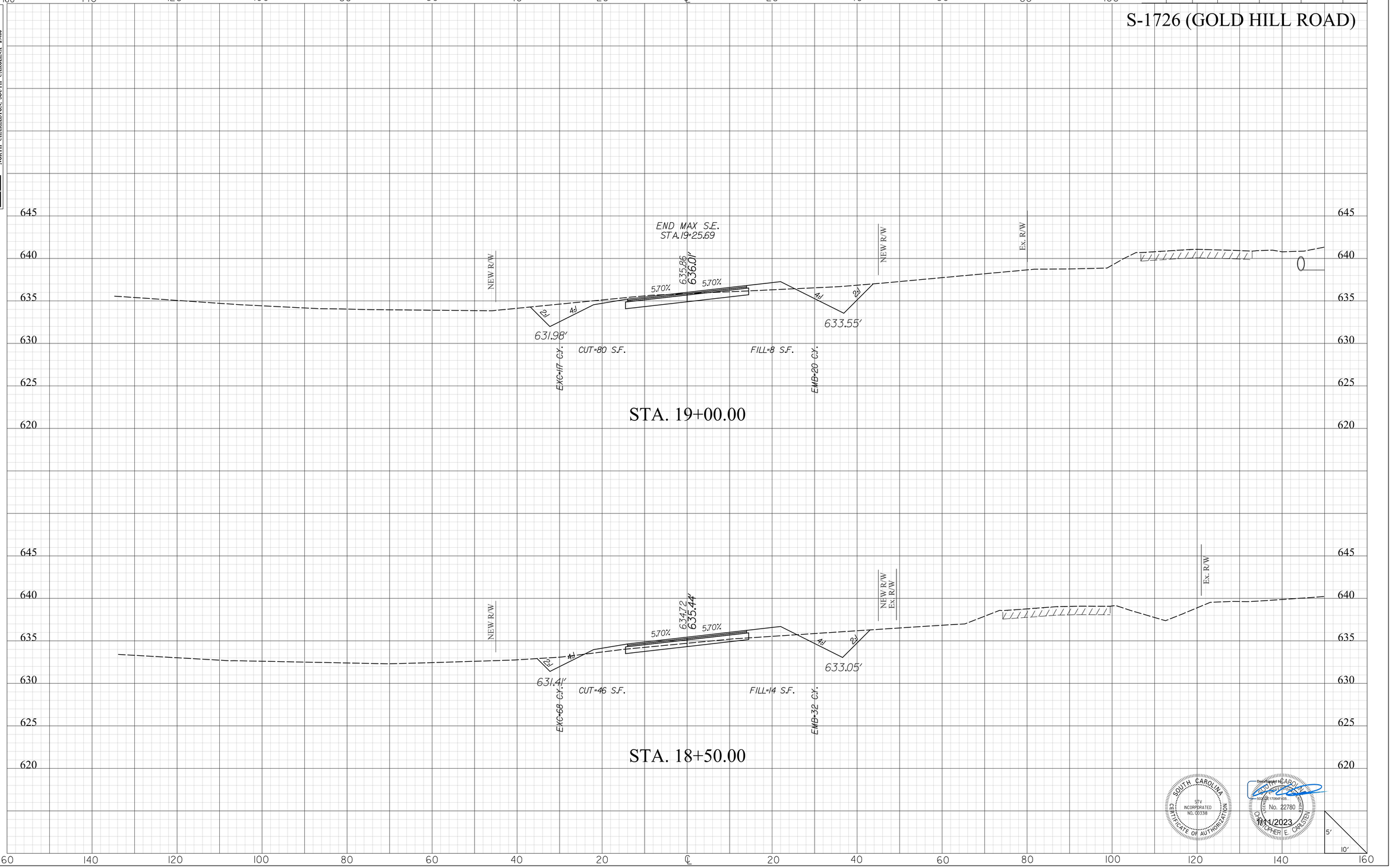
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X184

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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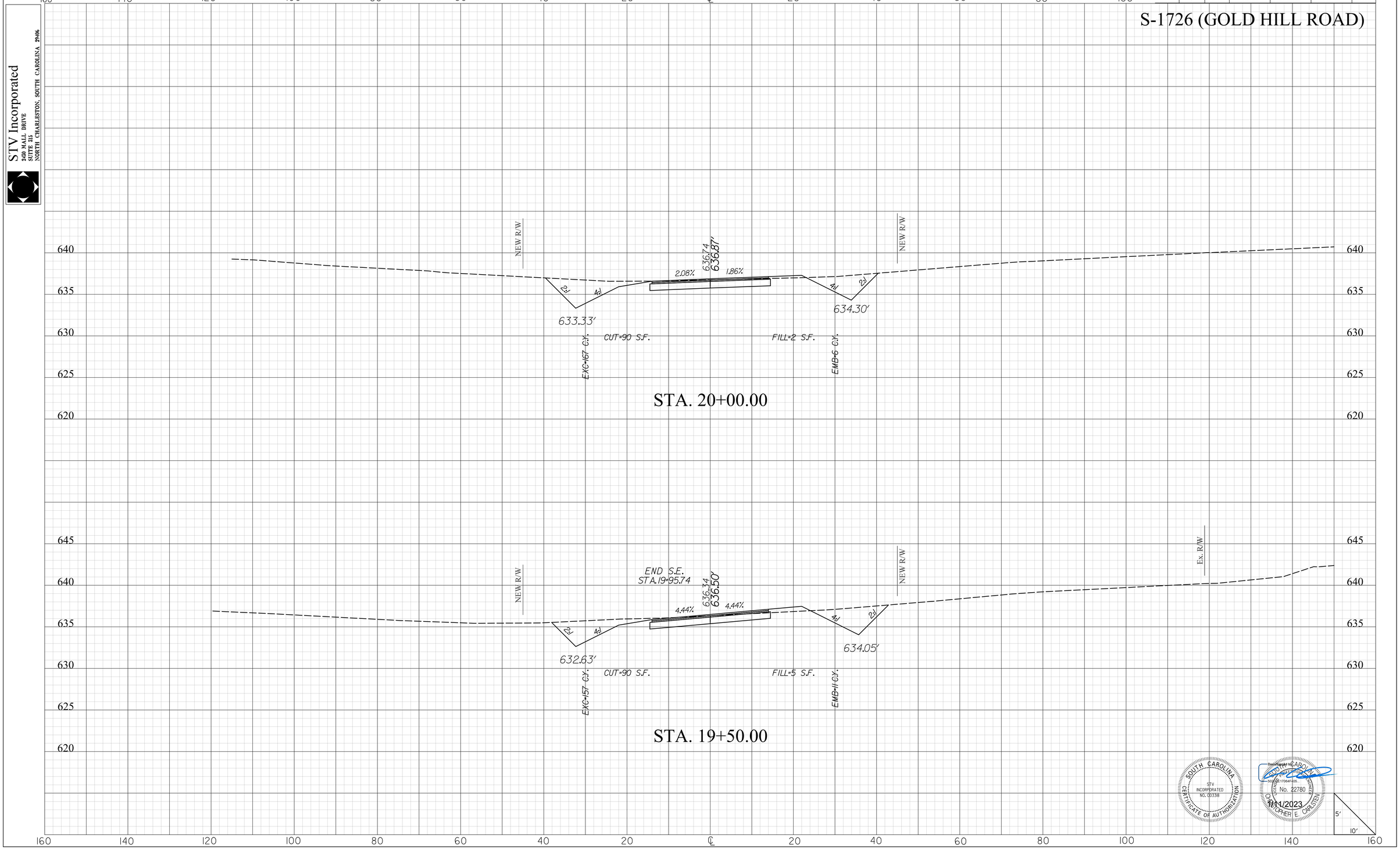
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X185

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (GOLD HILL ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/11/2023
CHRISTOPHER E. CARLSTEN

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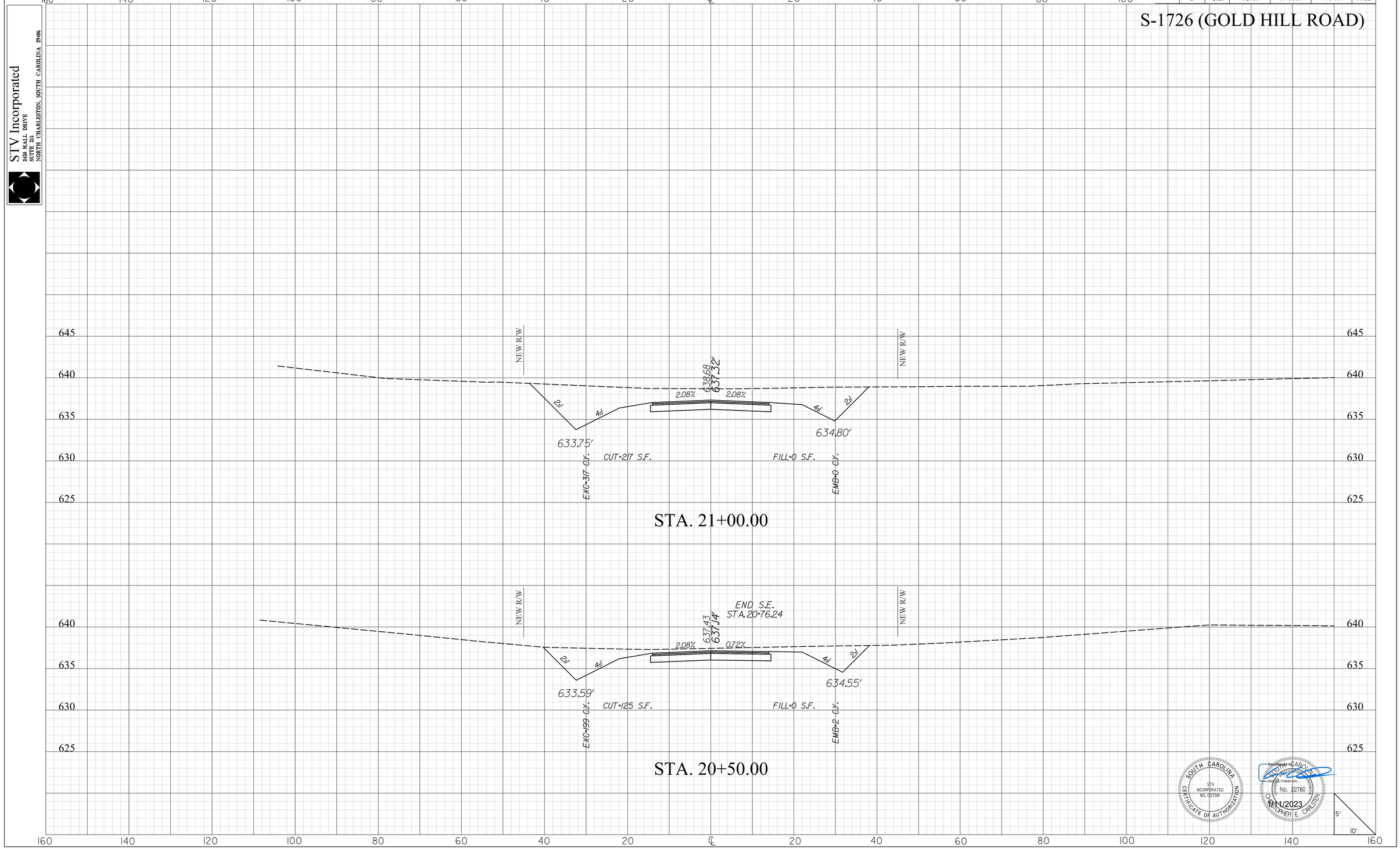
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X186

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (GOLD HILL ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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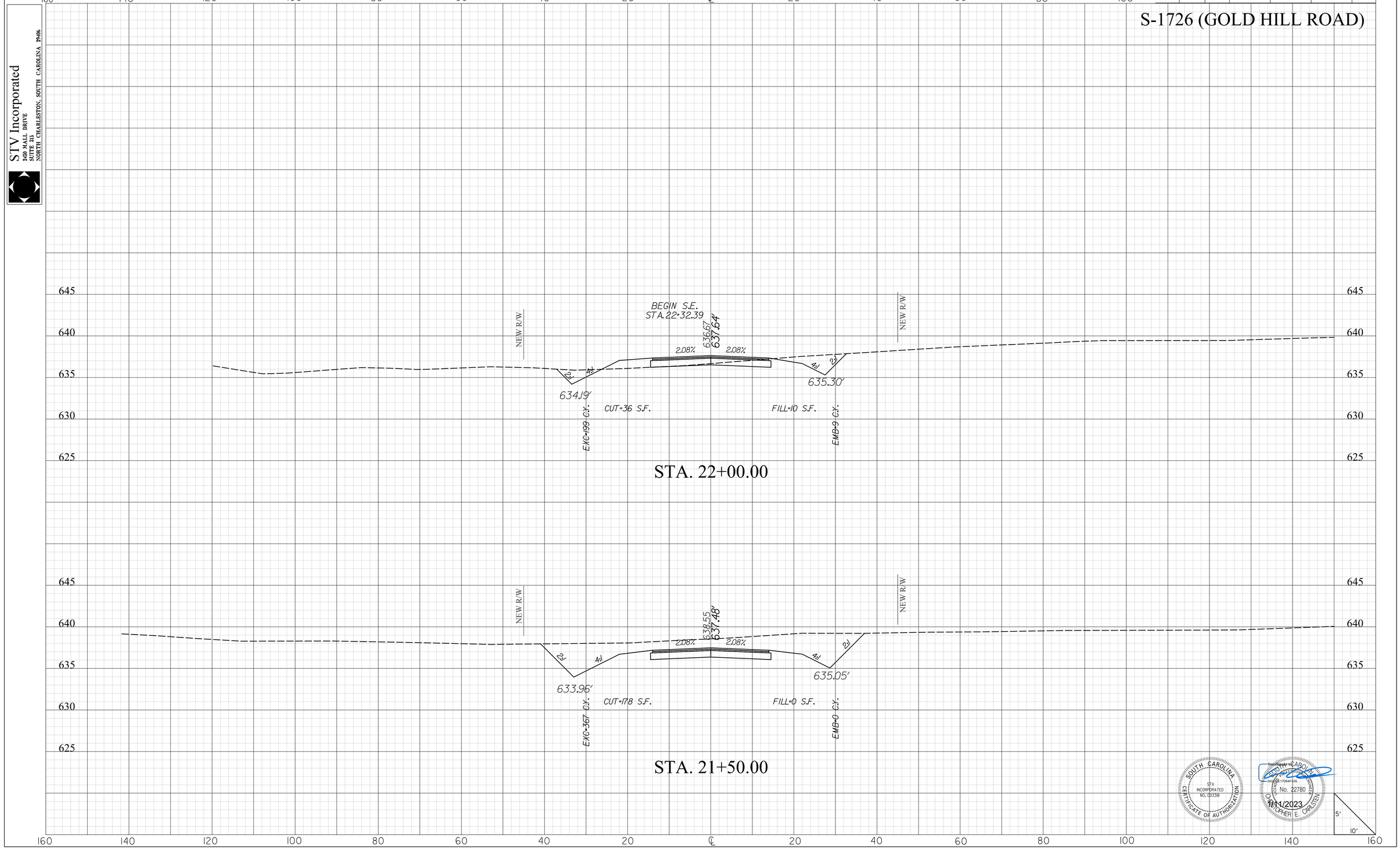
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X187

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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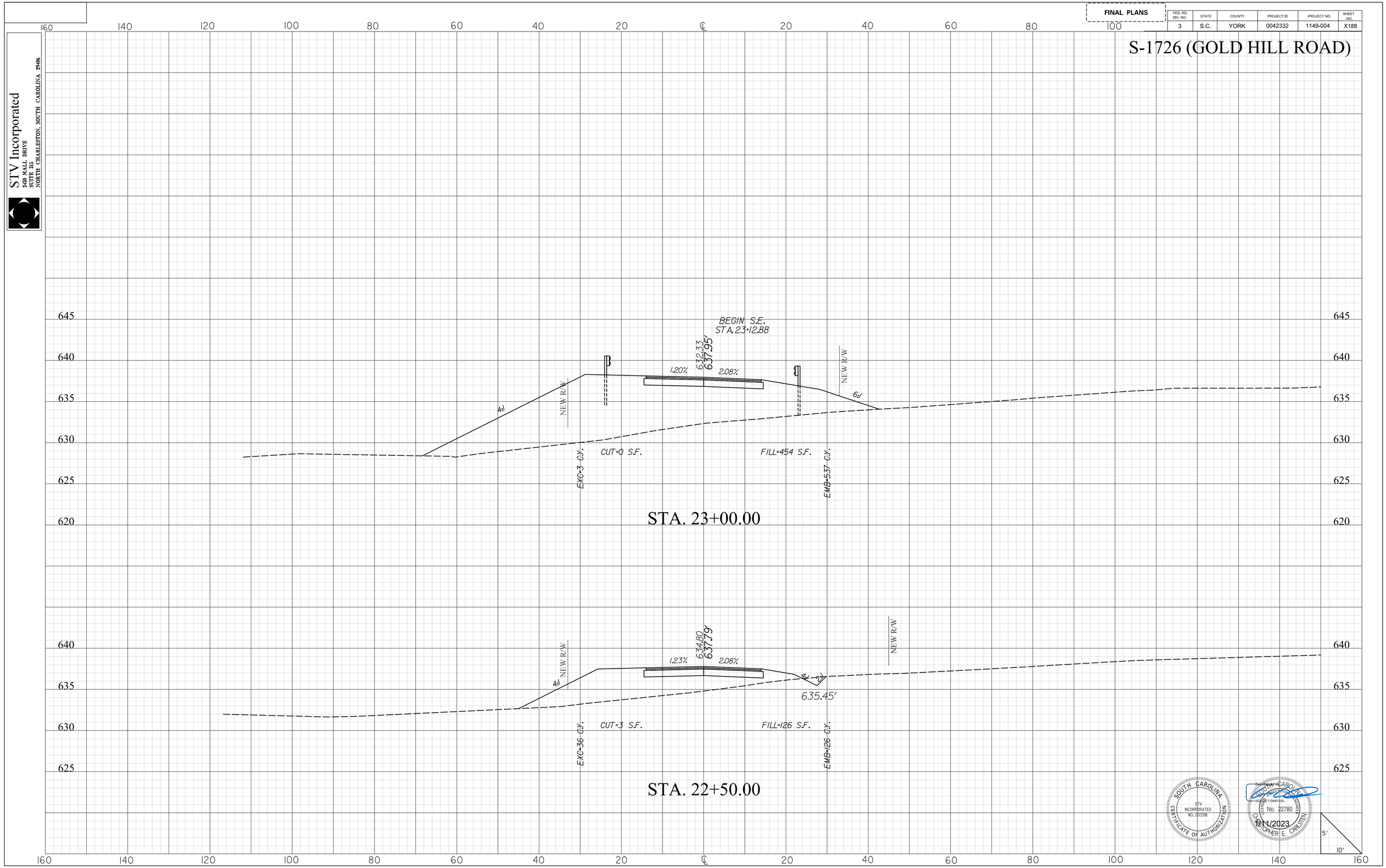
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X188

S-1726 (GOLD HILL ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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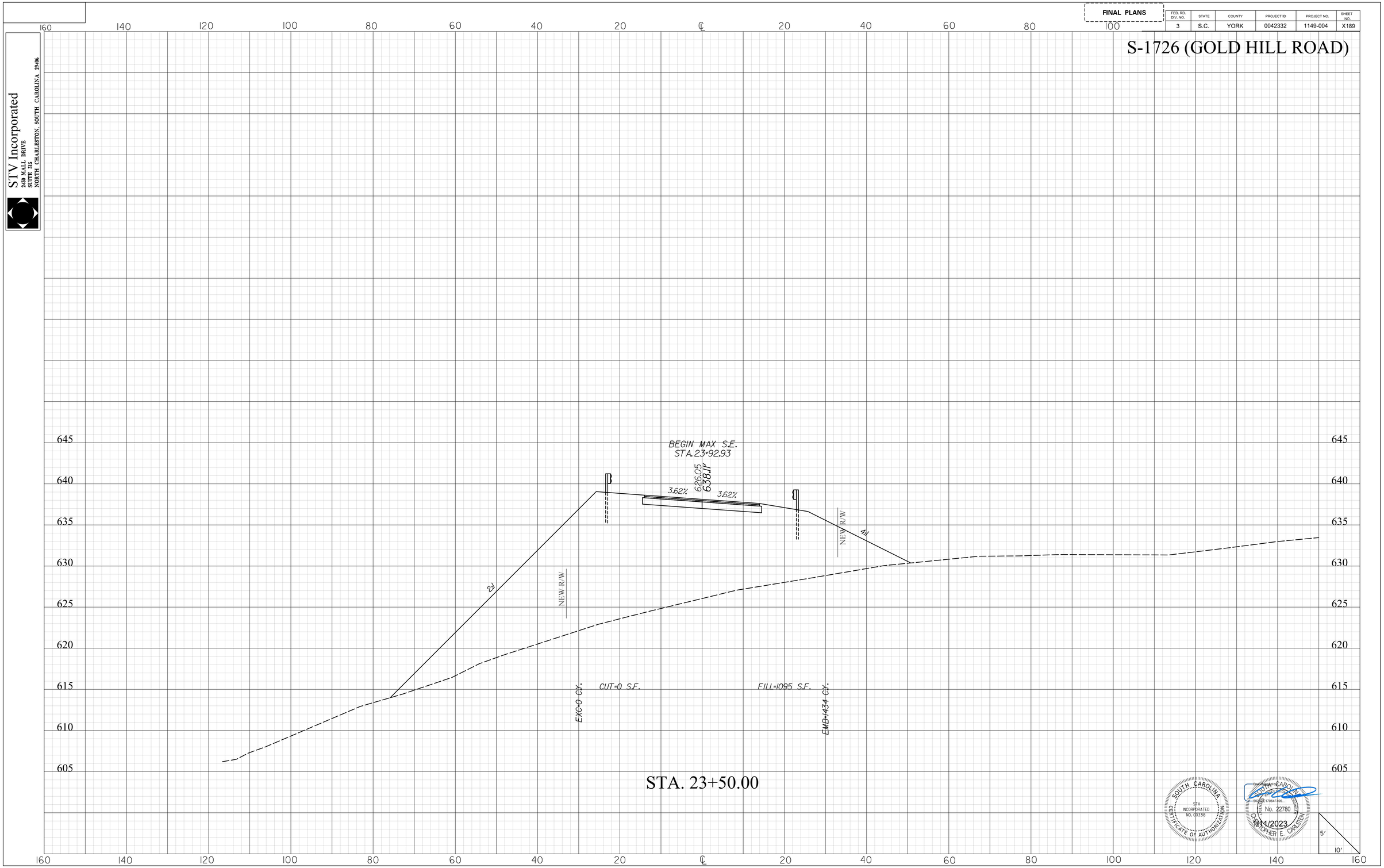
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X189

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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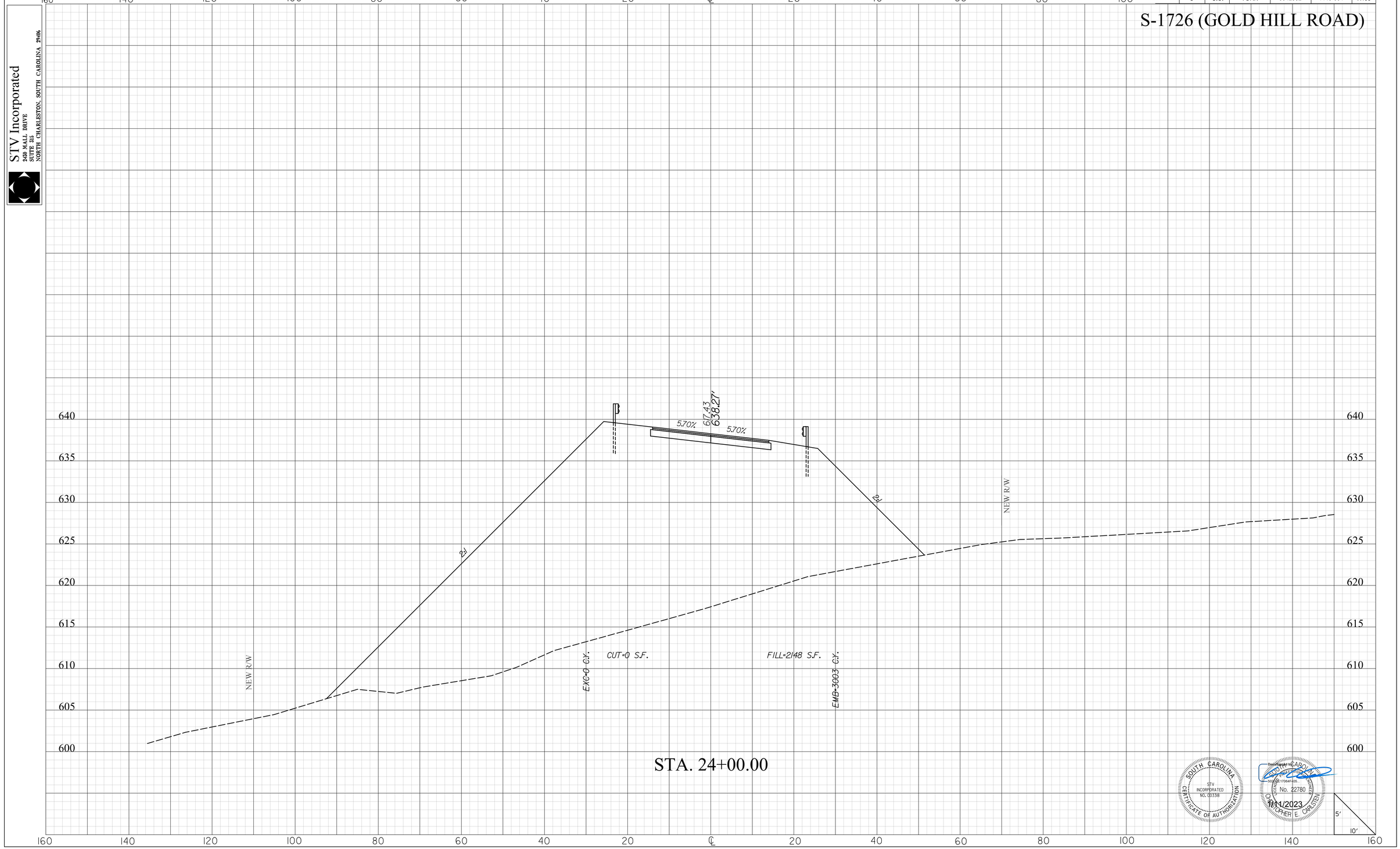
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X190

S-1726 (GOLD HILL ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

2DXS.DGN

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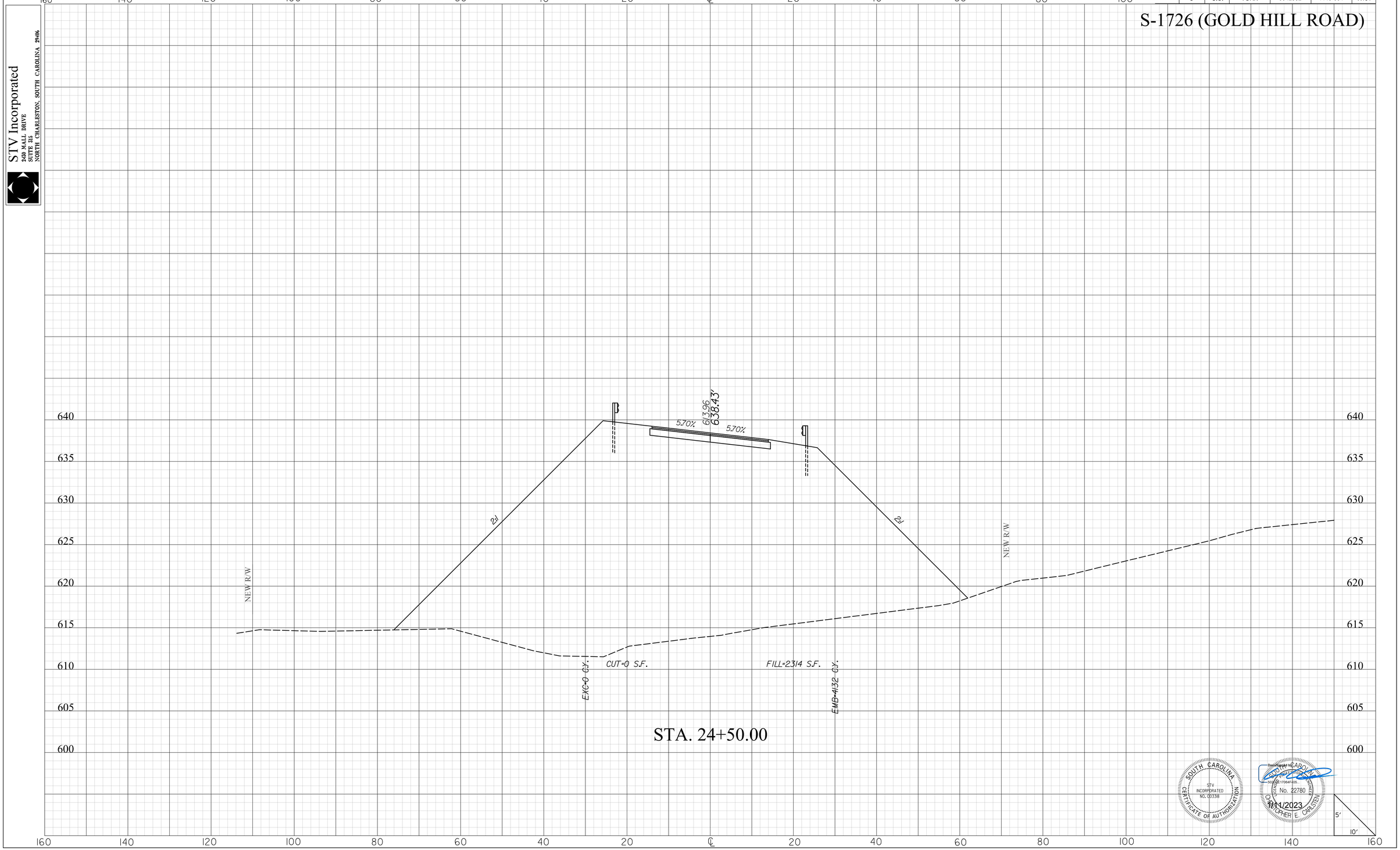
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X191

S-1726 (GOLD HILL ROAD)



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SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C00338

Registered Professional Engineer
No. 22780
CHRISTOPHER E. CARSTEN

11/1/2023

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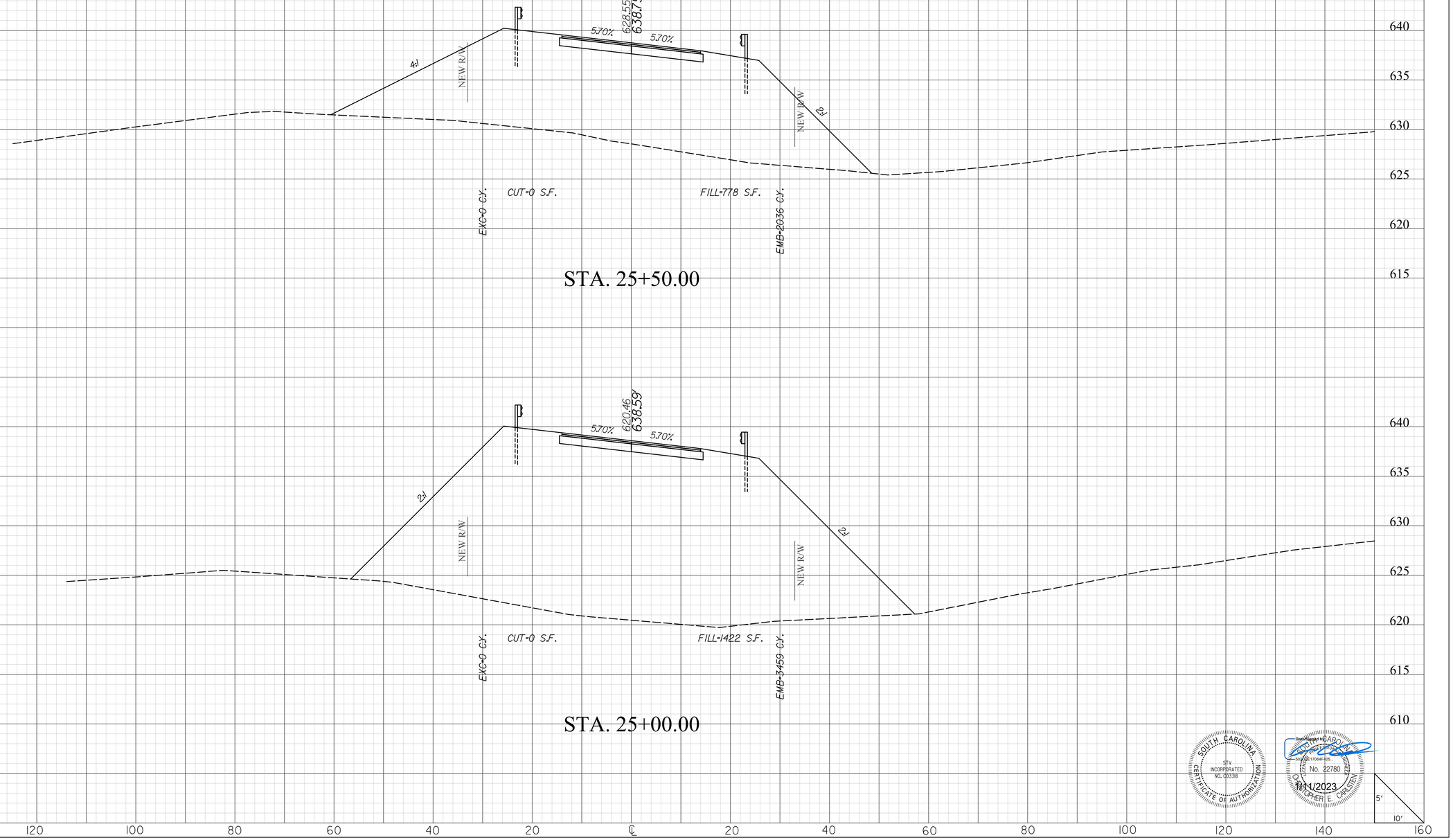
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X192

S-1726 (GOLD HILL ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
No. 22780
CHRISTOPHER E. CARLSTEN
5/11/2023

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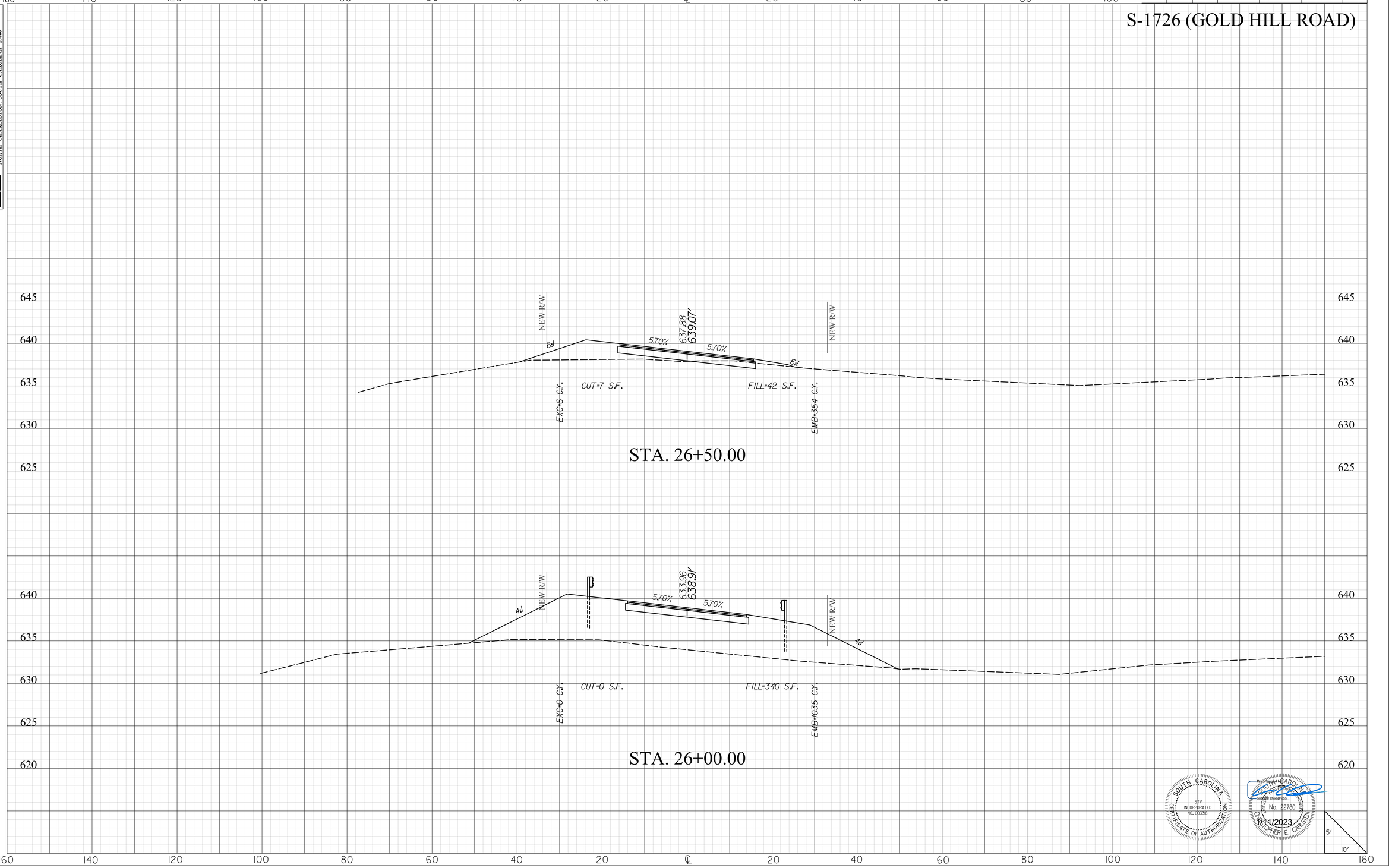
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X193

S-1726 (GOLD HILL ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
11/1/2023

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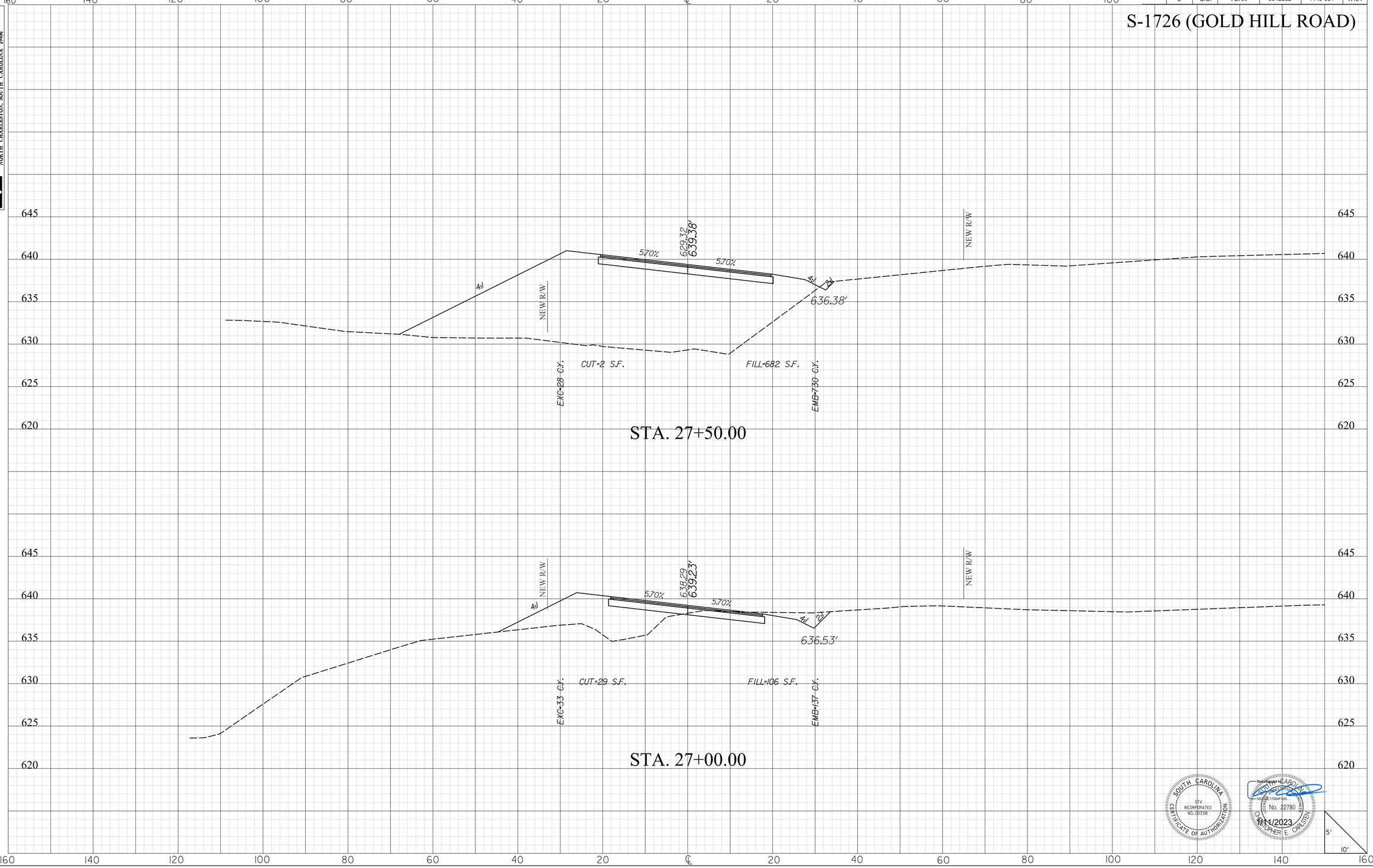
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X194

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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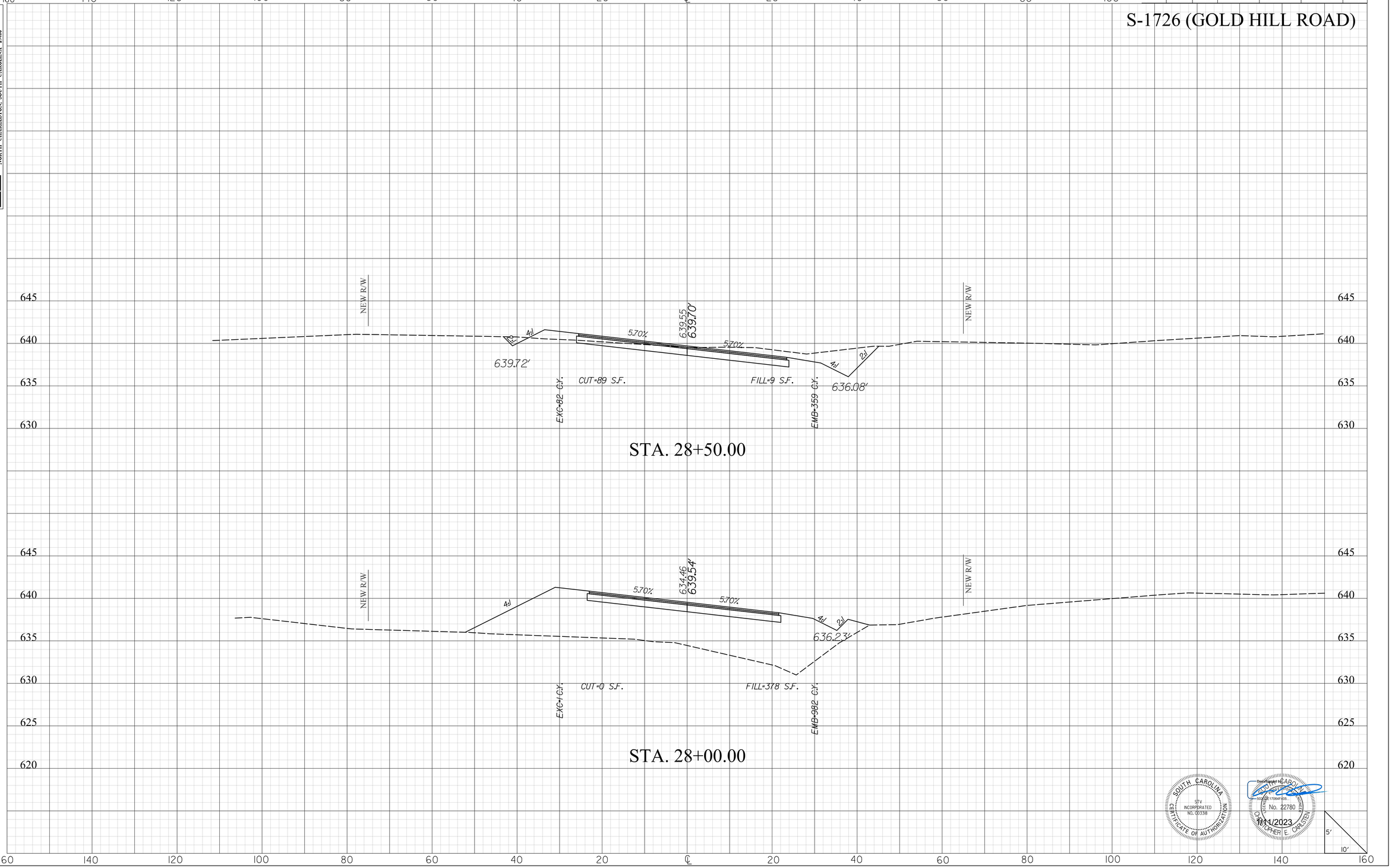
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X195

S-1726 (GOLD HILL ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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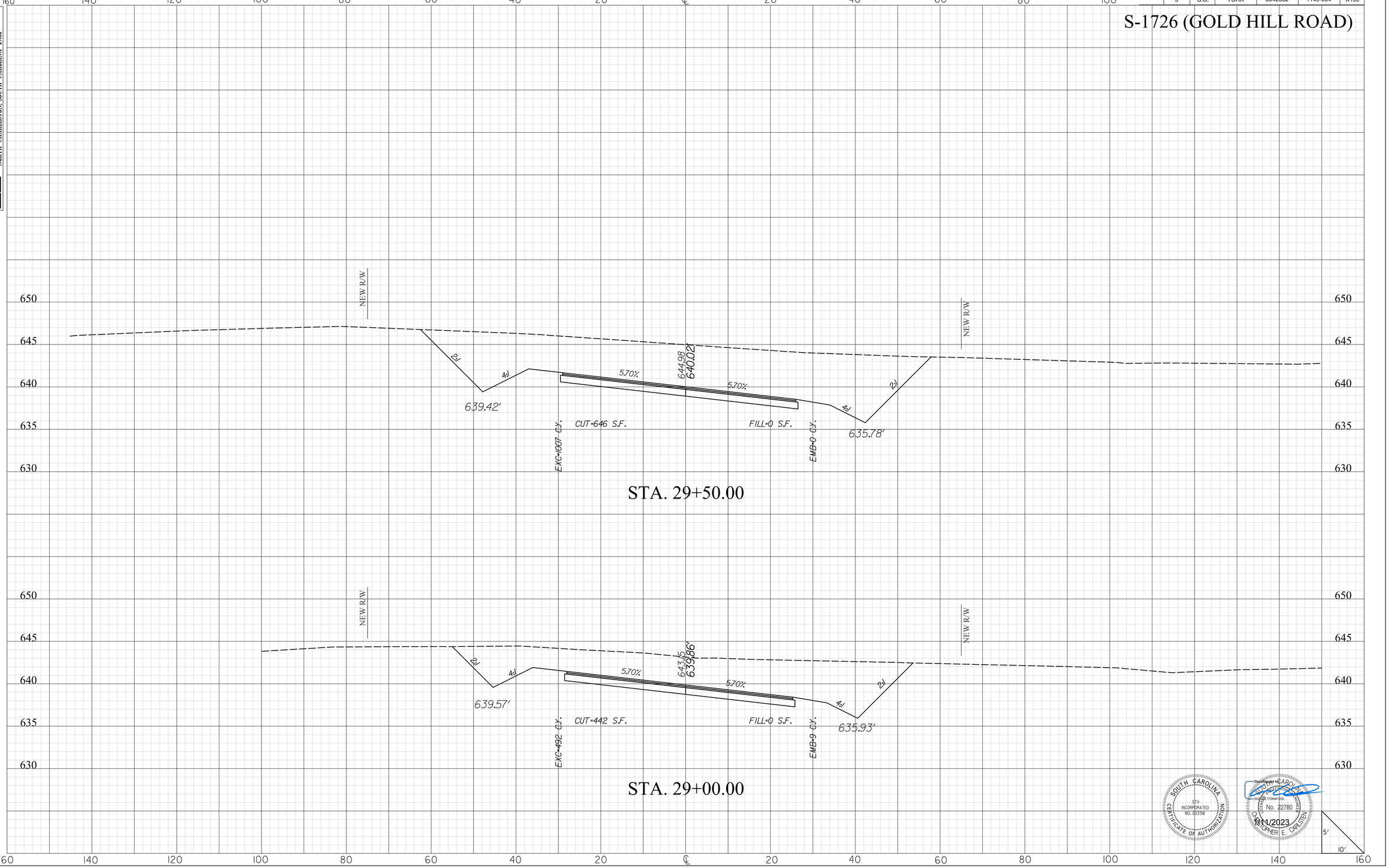
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X196

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (GOLD HILL ROAD)



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STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

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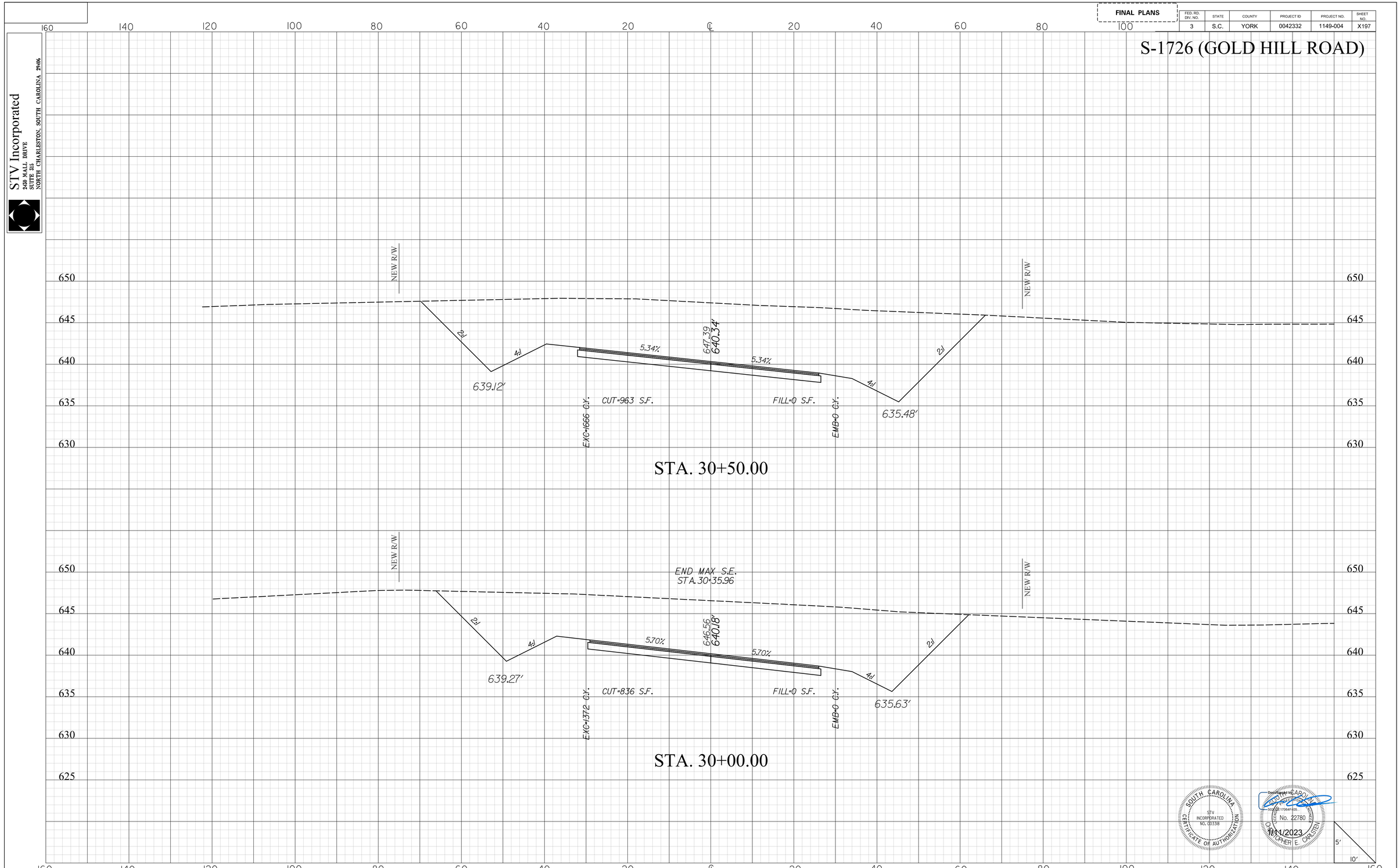
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X197

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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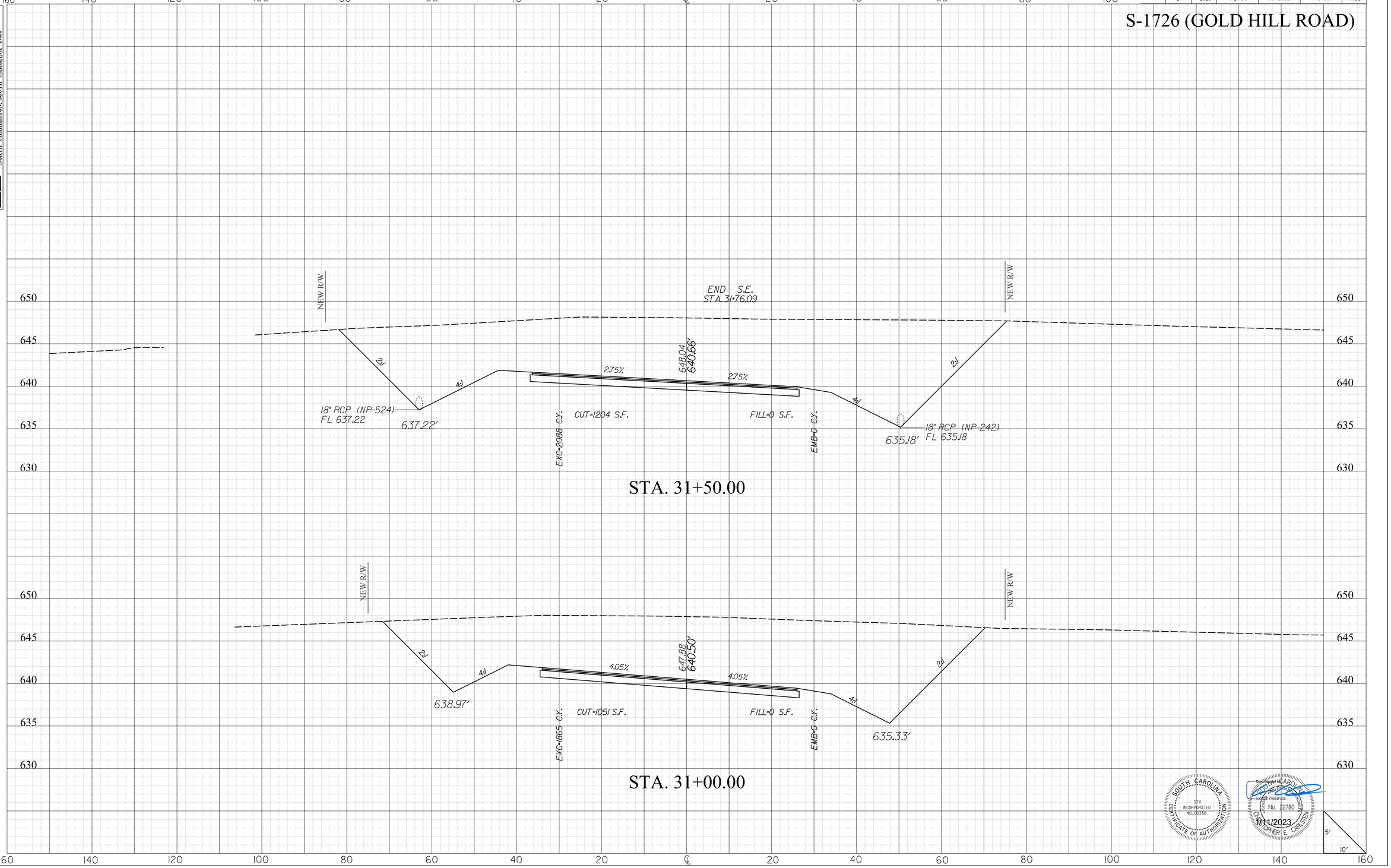
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X198

S-1726 (GOLD HILL ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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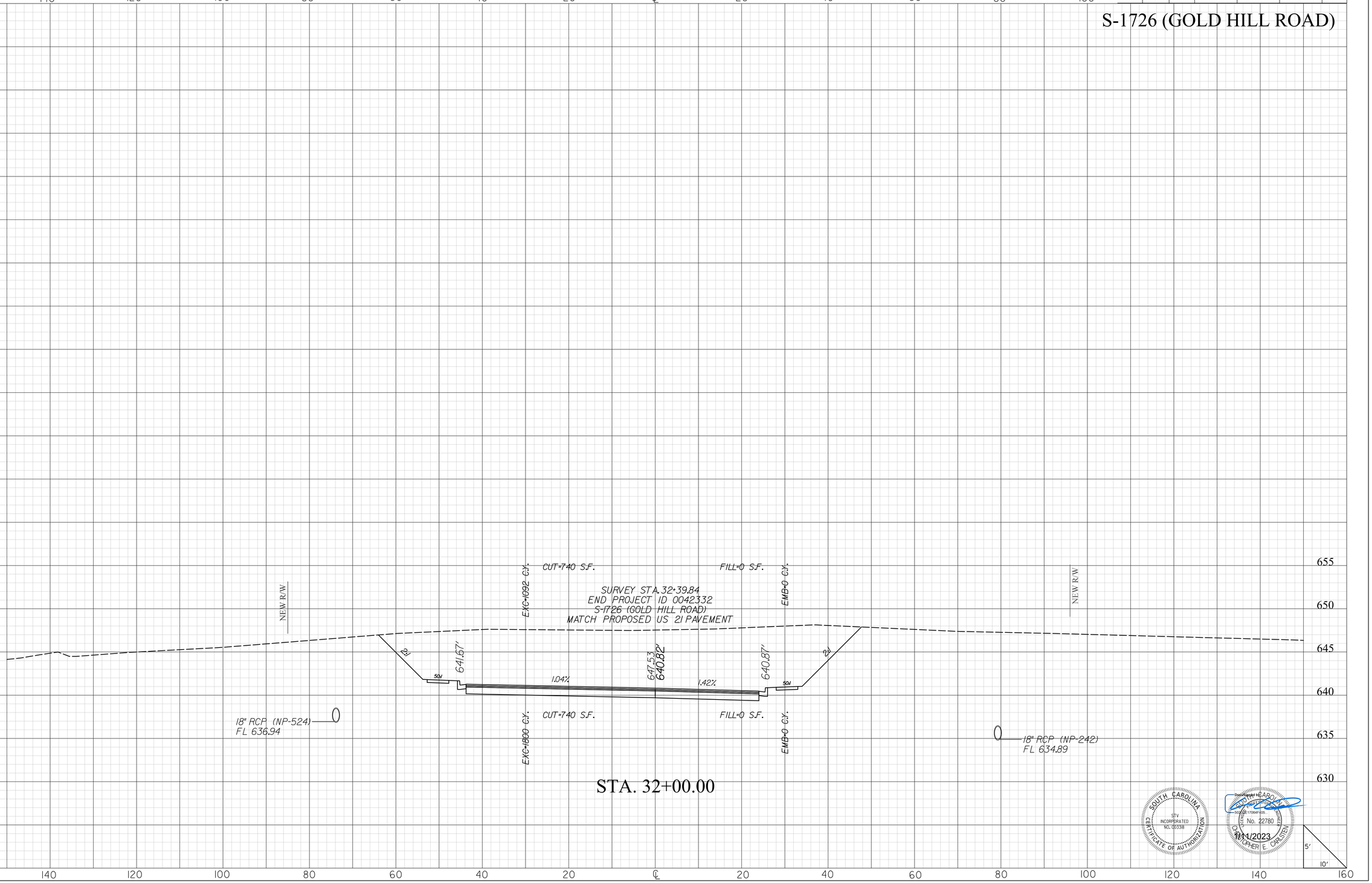
S-1726 (GOLD HILL ROAD)



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2450 MALL DRIVE
SUITE 315
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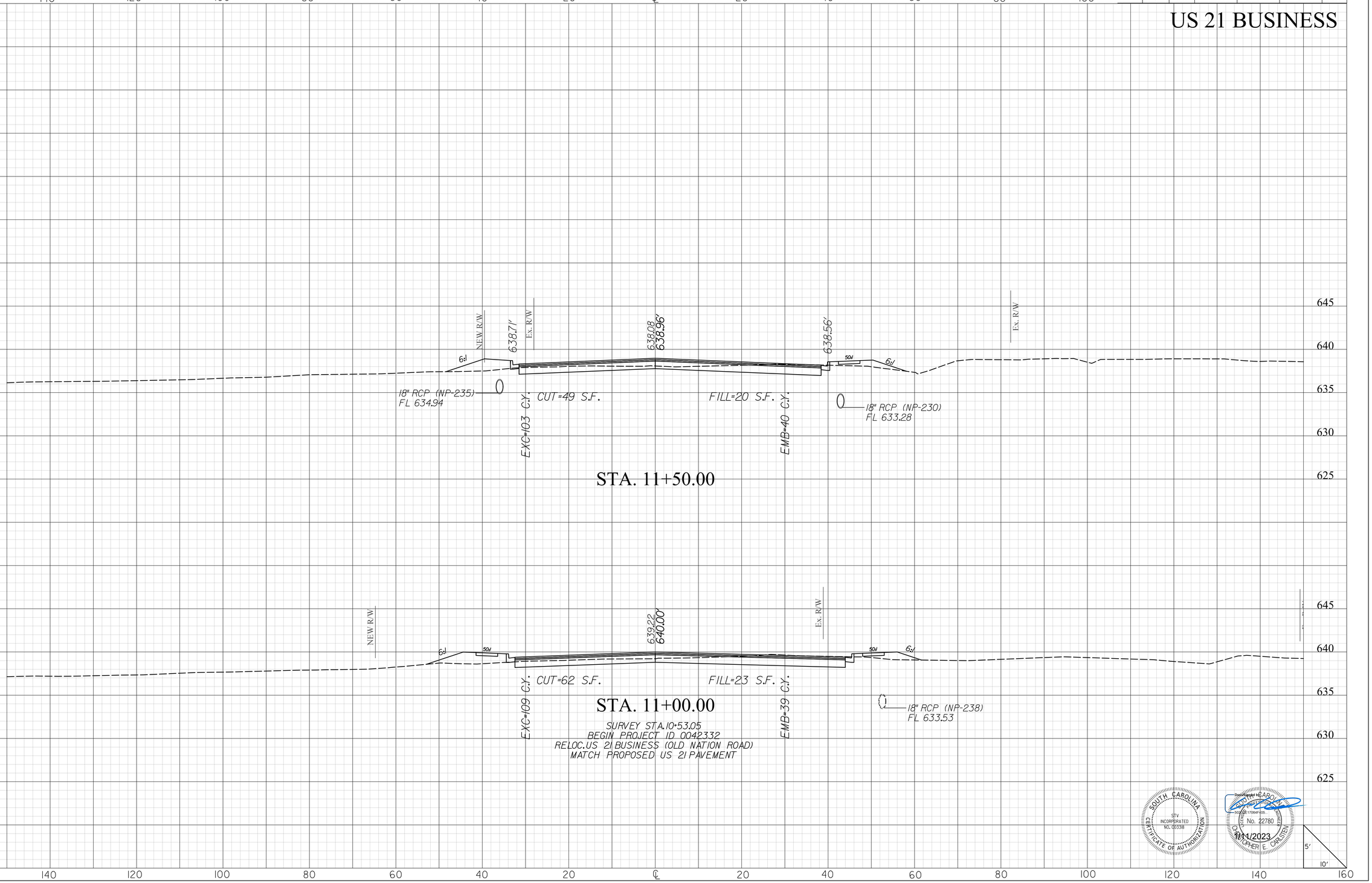
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X200

US 21 BUSINESS



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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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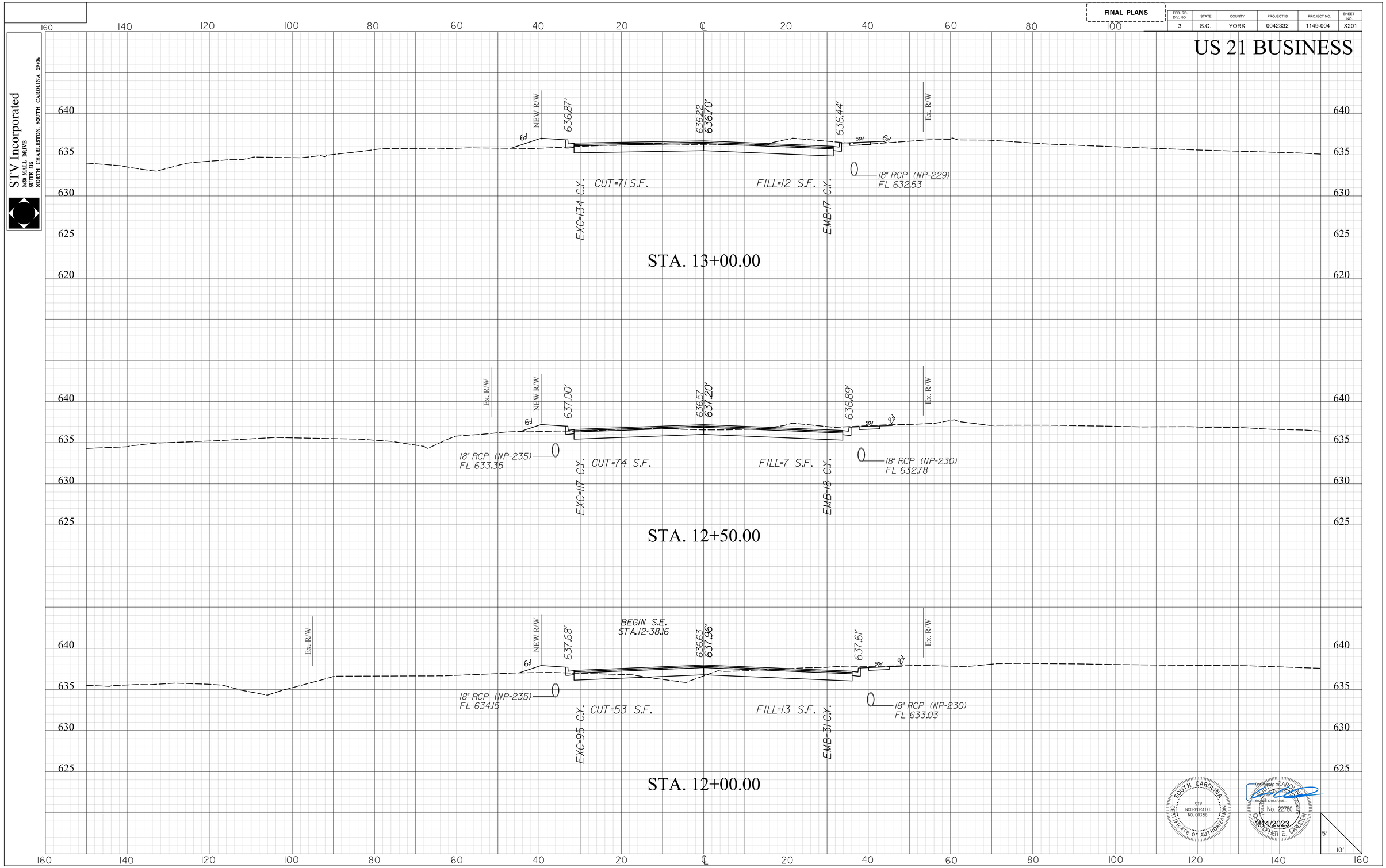
US 21 BUSINESS



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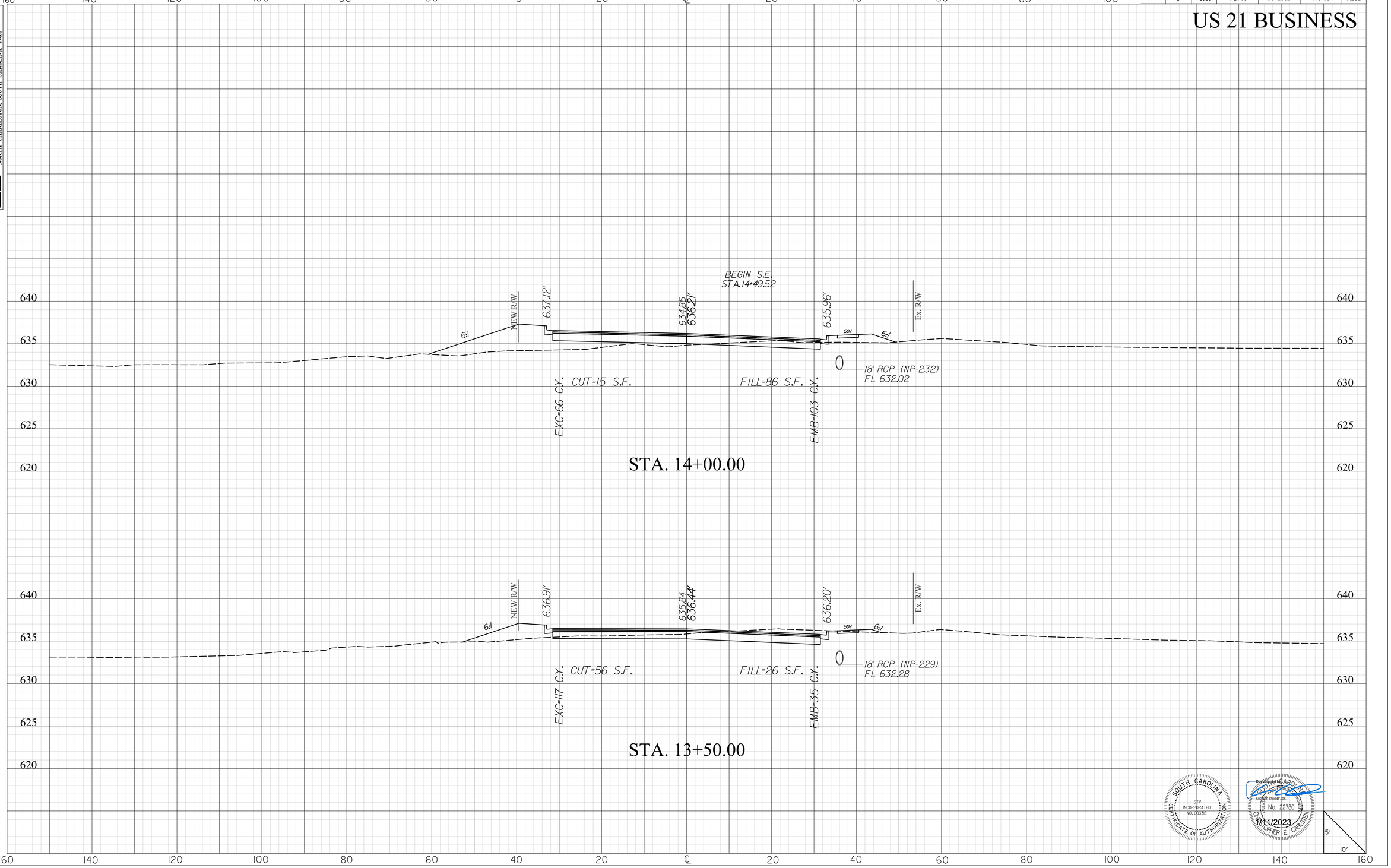
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X202

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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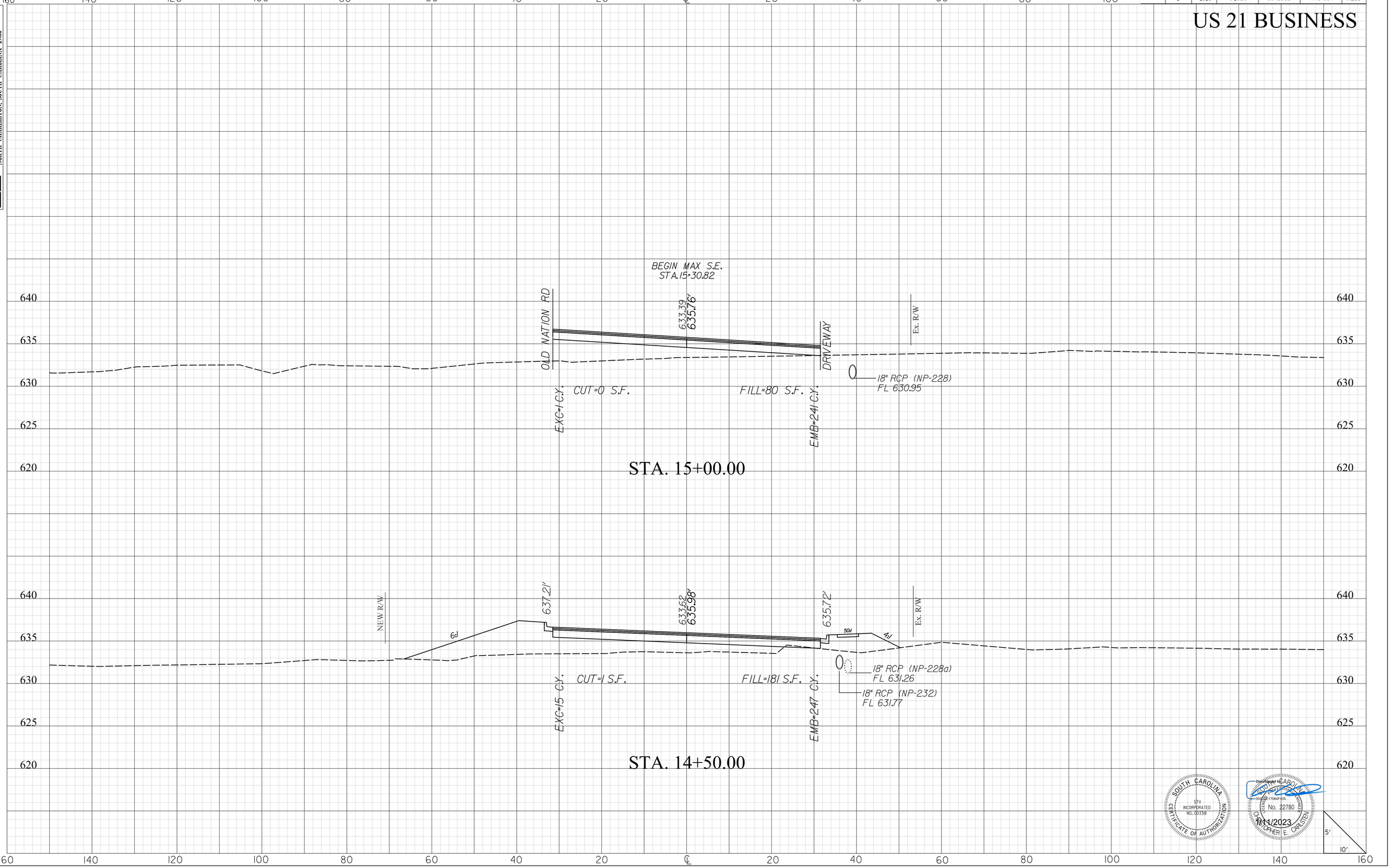
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X203

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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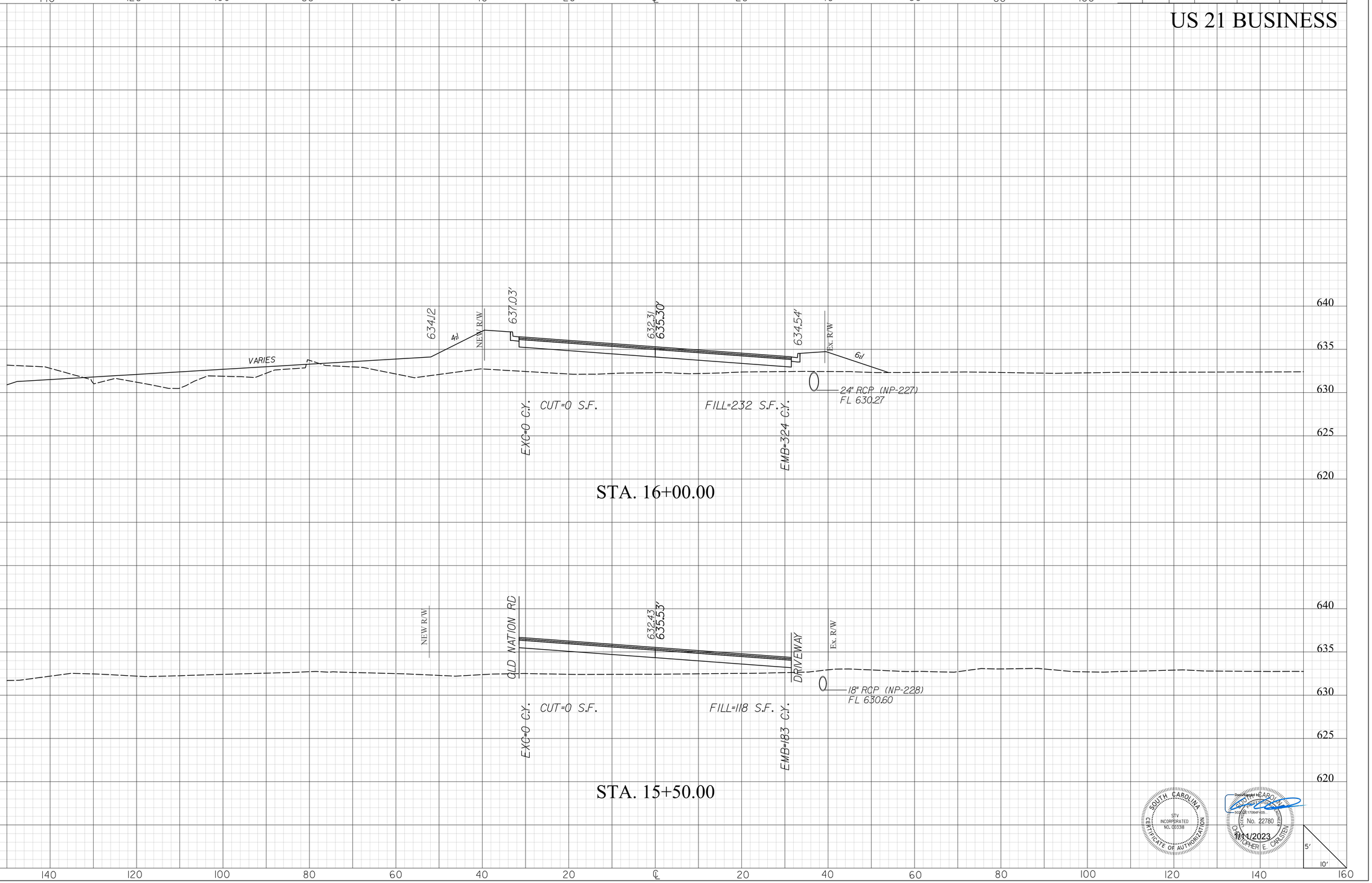
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X204

US 21 BUSINESS



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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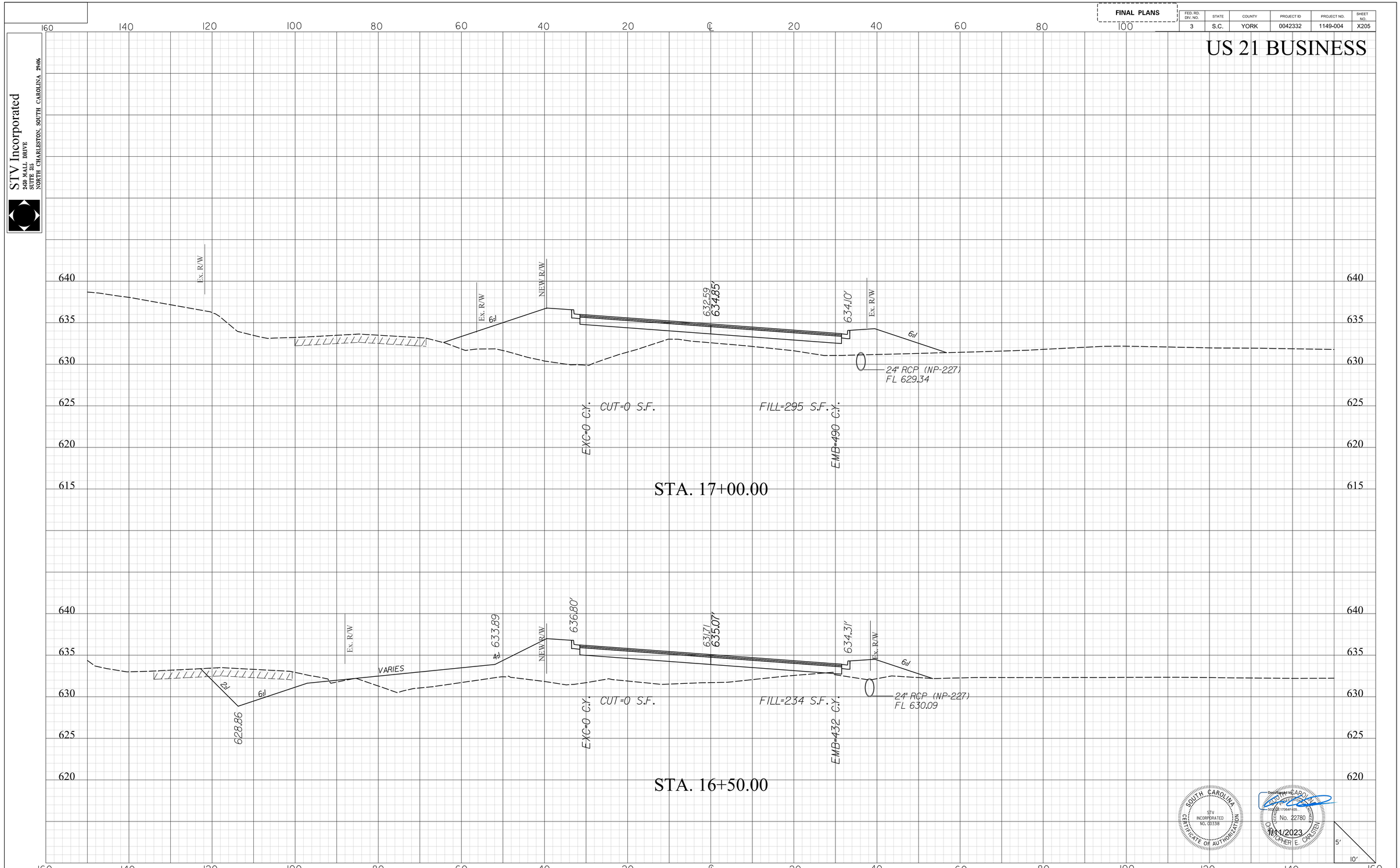
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X205

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
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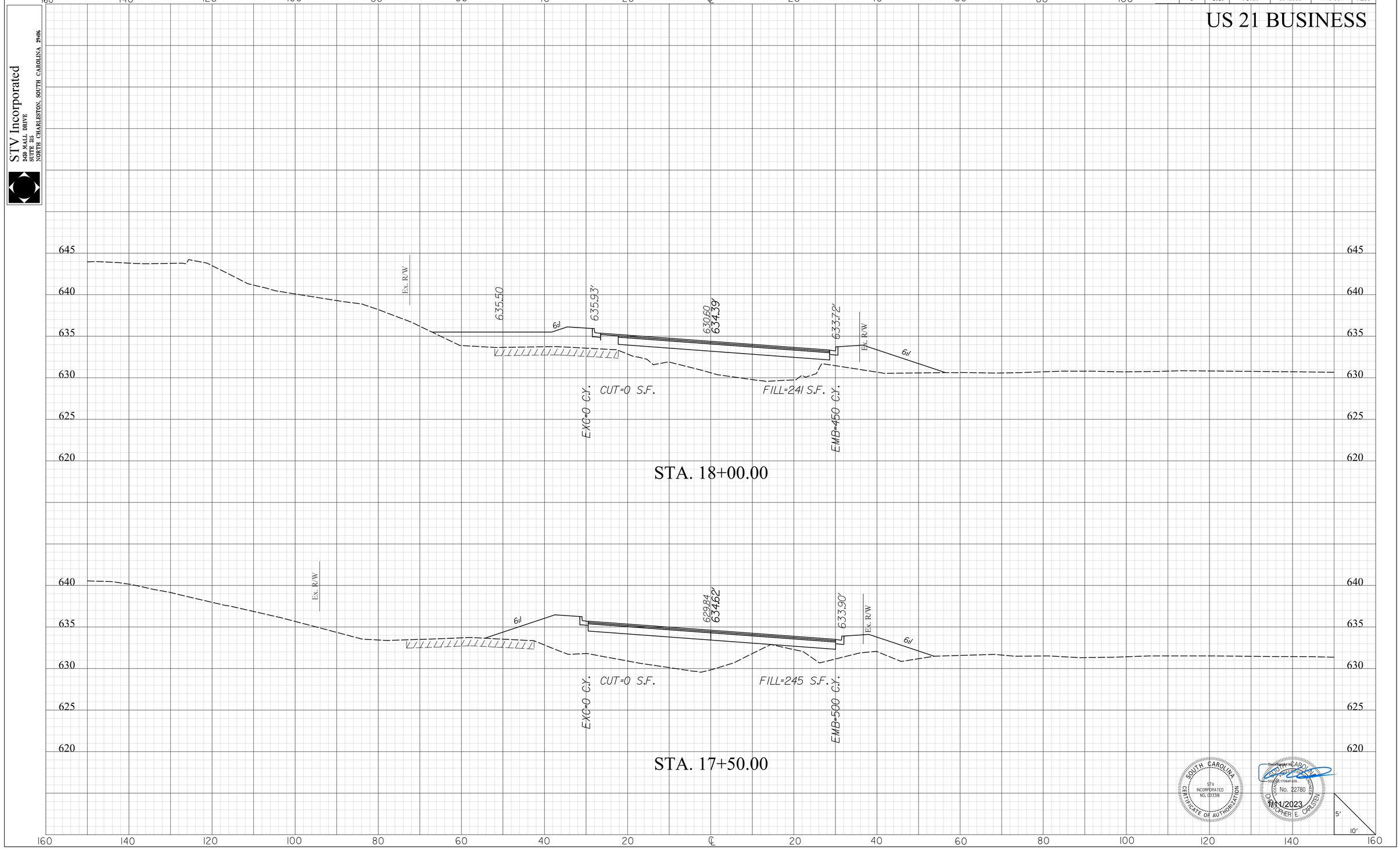
US 21 BUSINESS



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

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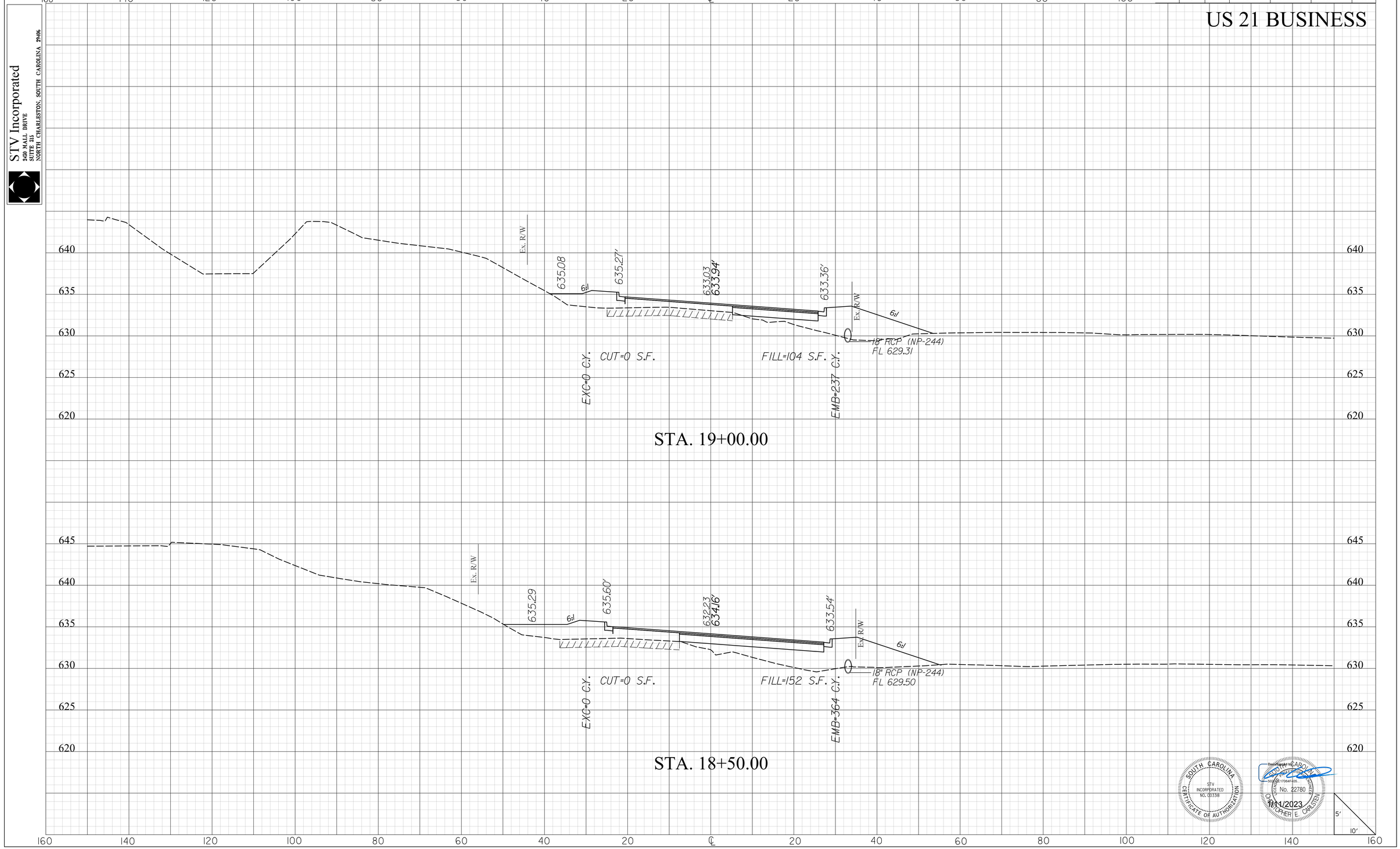
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X207

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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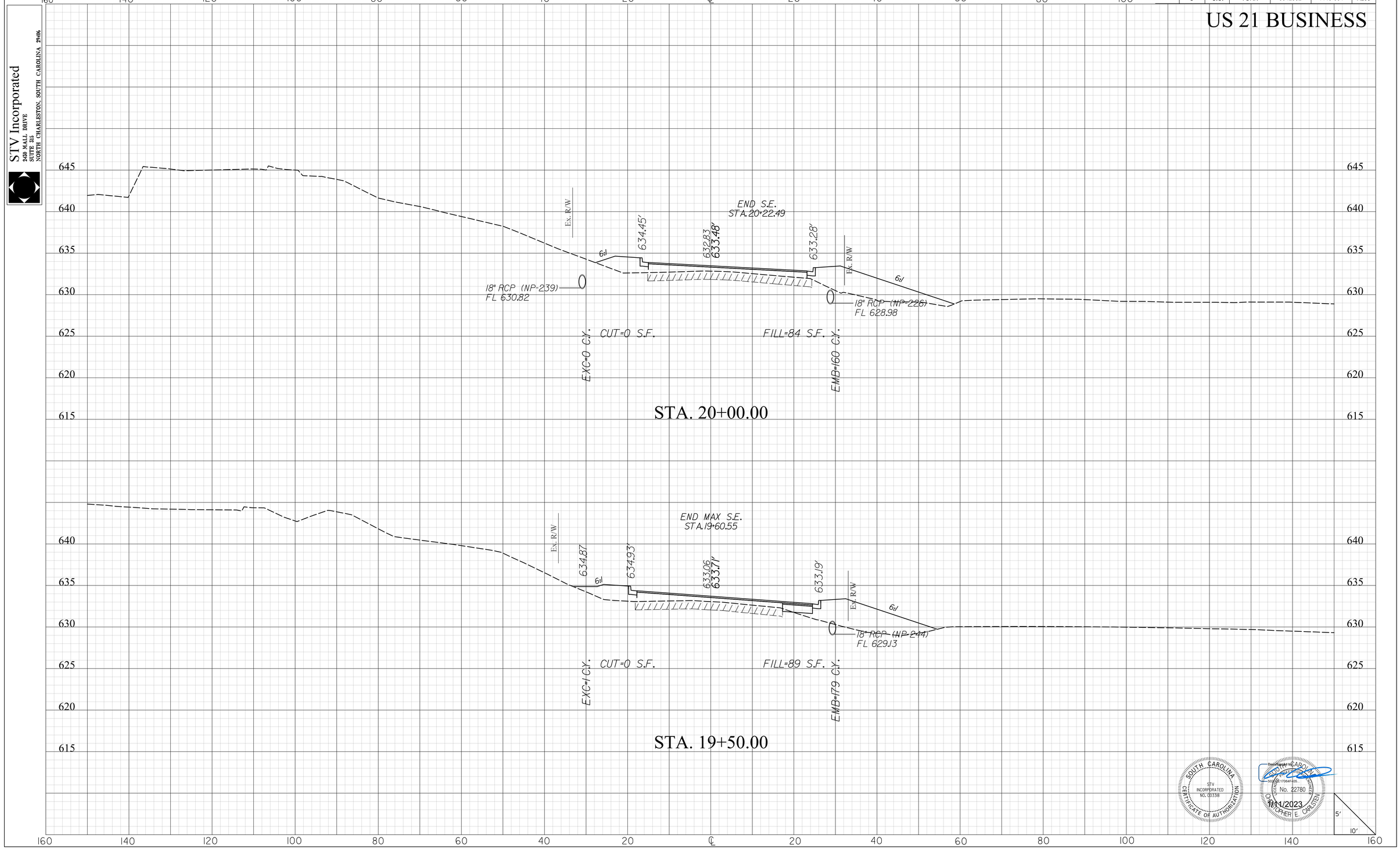
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X208

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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SOUTH CAROLINA
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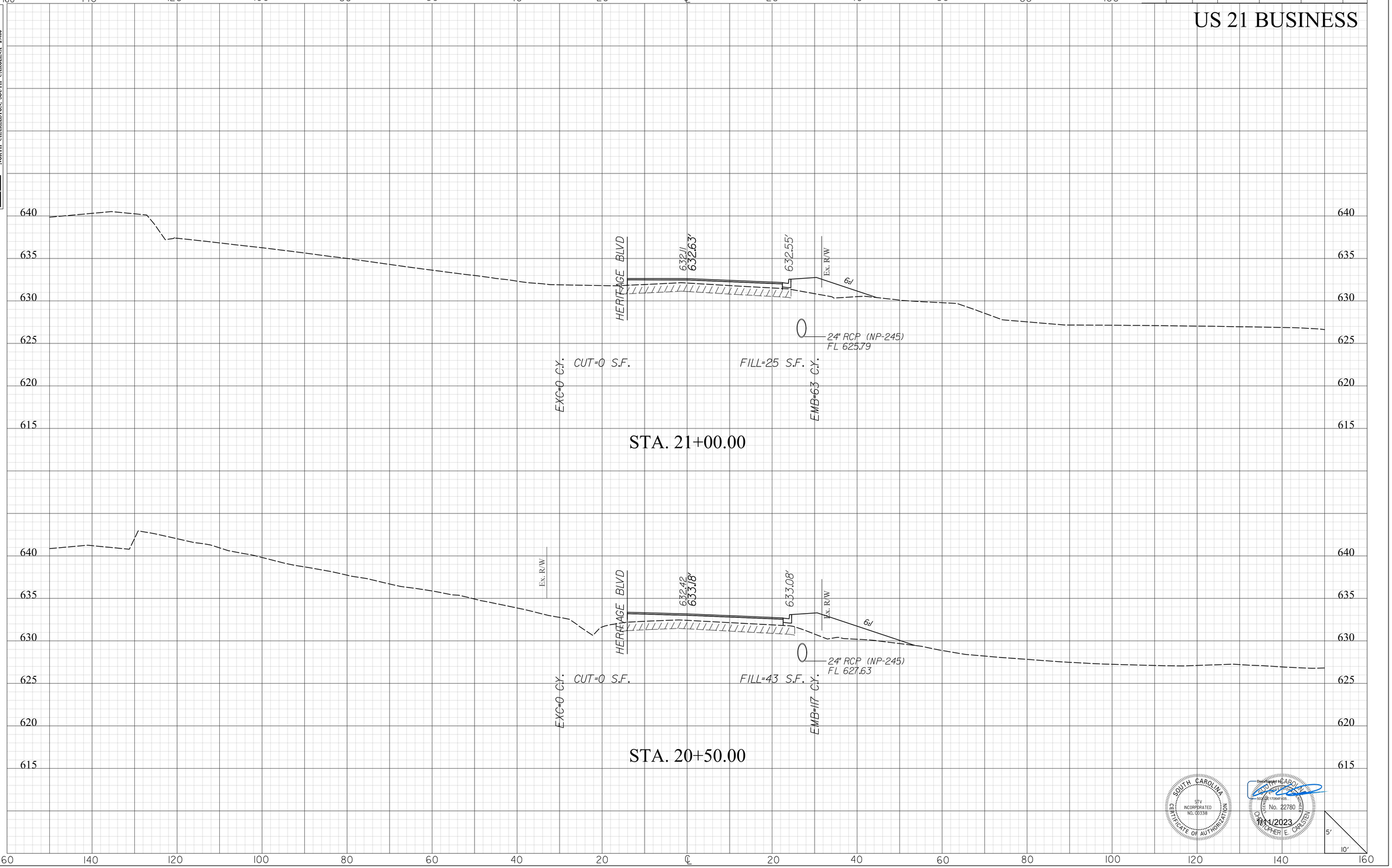
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X209

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
STATE OF NORTH CAROLINA
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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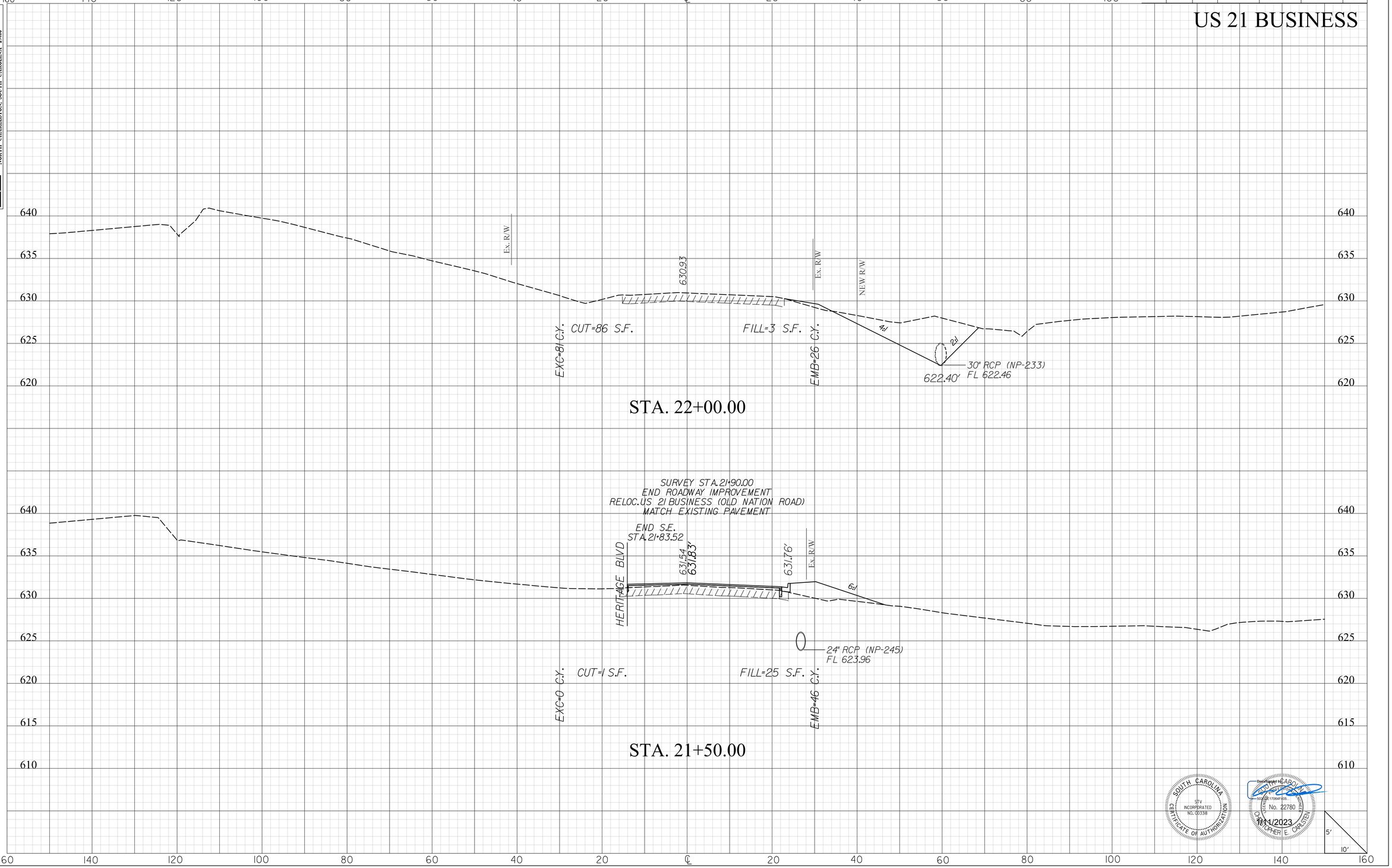
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X210

US 21 BUSINESS



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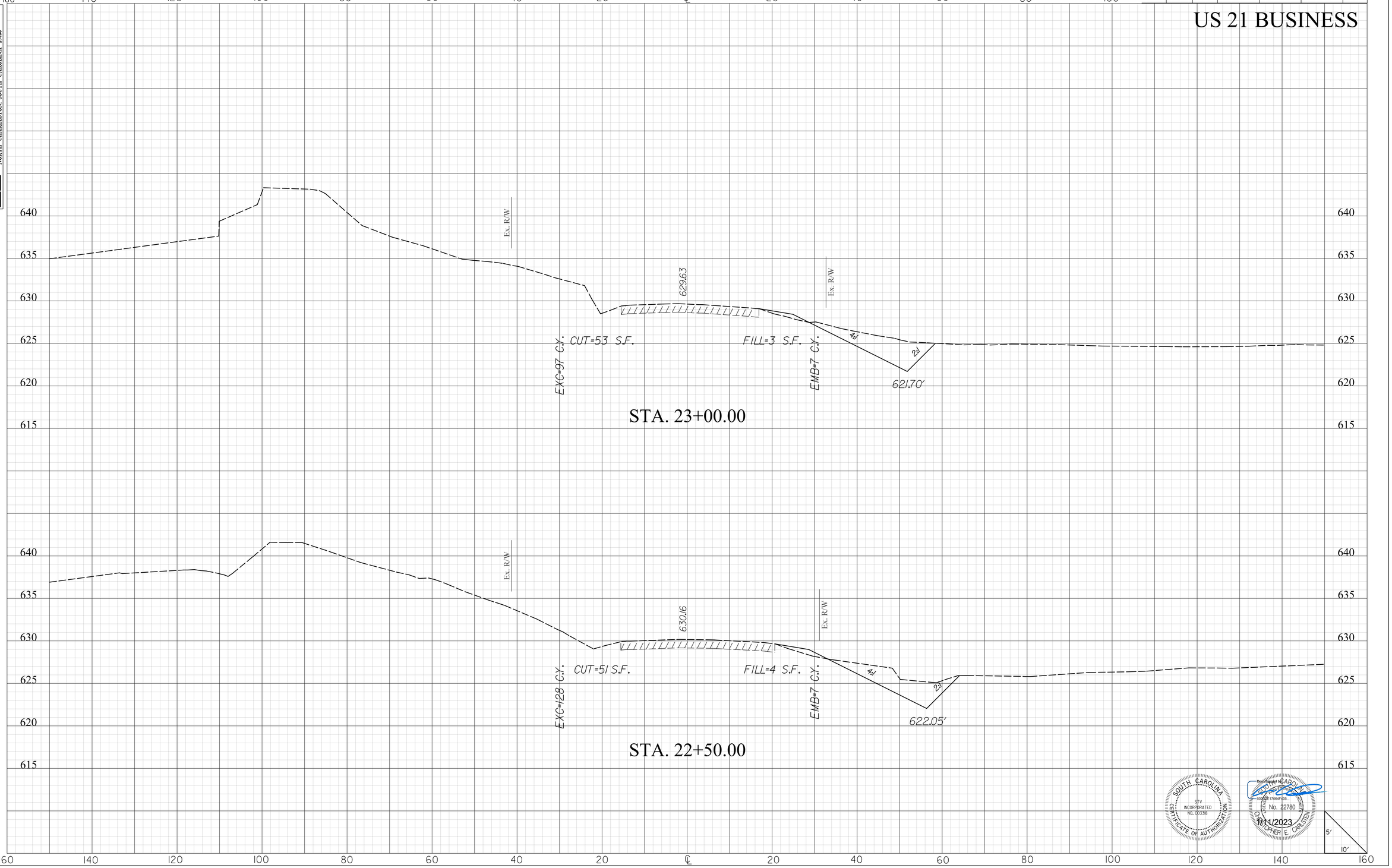
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X211

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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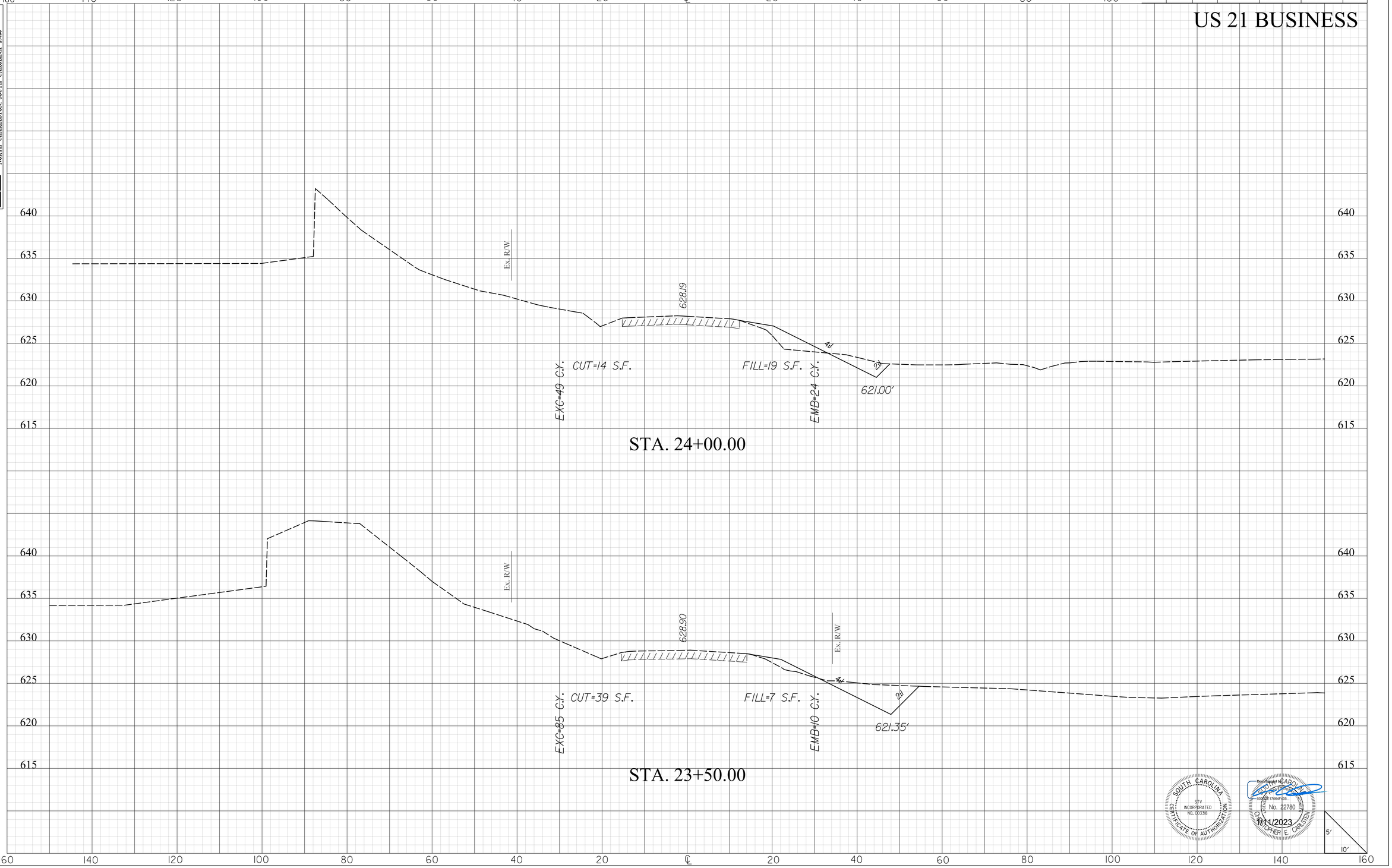
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X212

US 21 BUSINESS

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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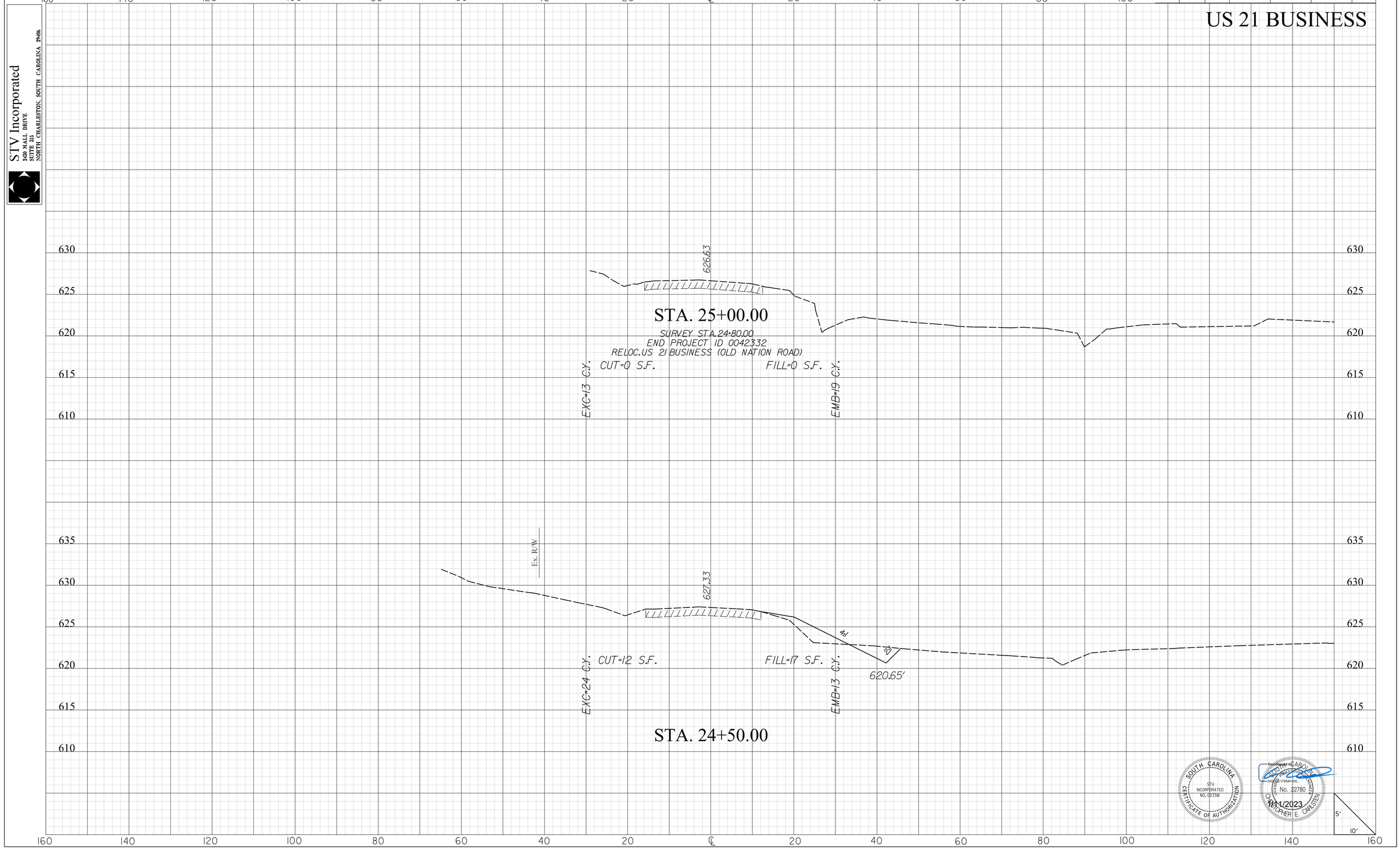
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X213

US 21 BUSINESS



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
Date: 2023.11.06 17:06:41 -05'00'
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
11/1/2023

masttlg
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1/10/2023

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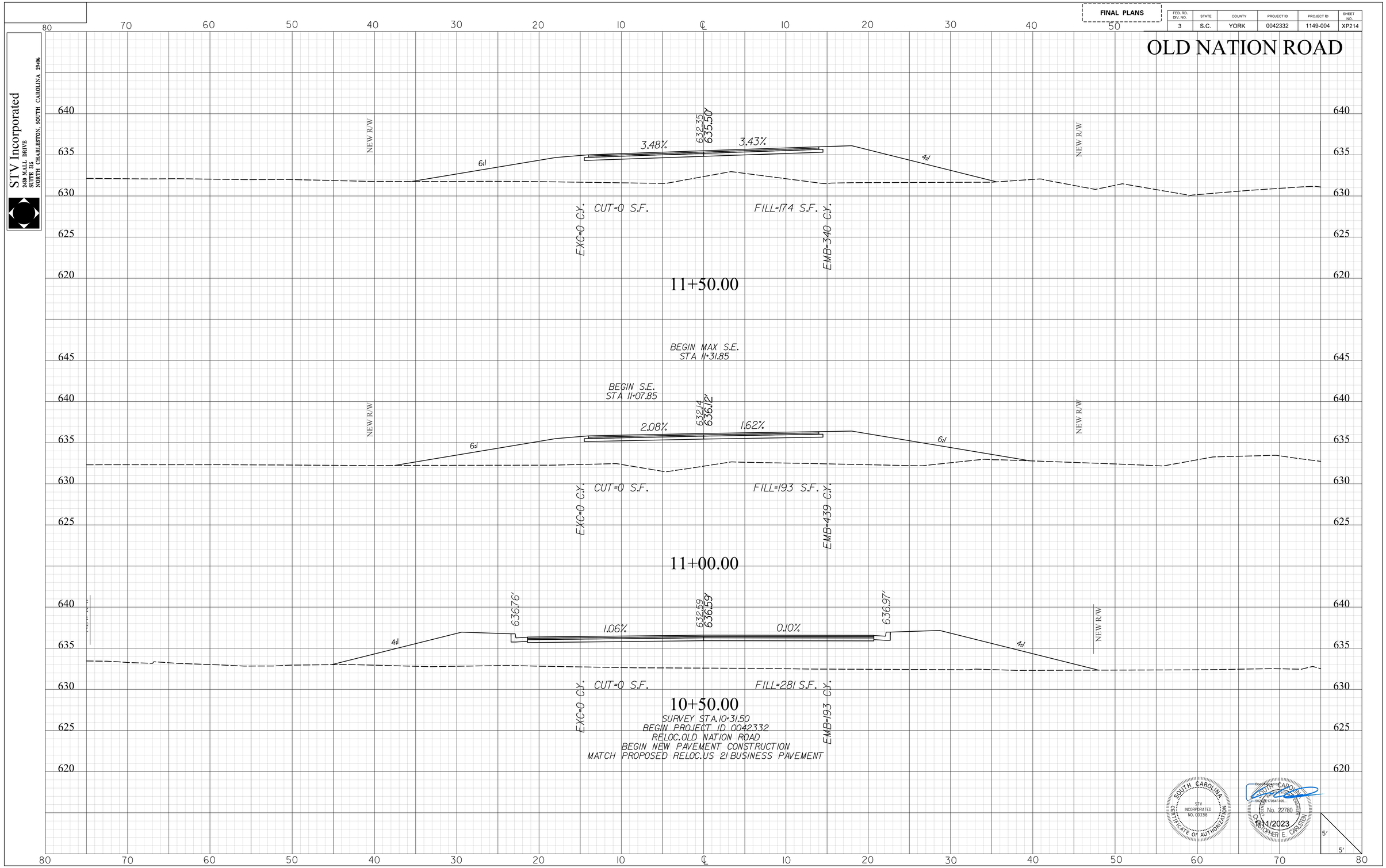
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP214

OLD NATION ROAD



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

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DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP215

OLD NATION ROAD

13+00.00

END S.E.
STA 13+25.85

END MAX S.E.
STA 13+01.85

632.50
633.48'

Ex. R/W

3.48%

3.43%

6:1

4:1

2:1

628.01

EXC=103 C.Y. CUT=44 S.F.

FILL=61 S.F.

EMB=164 C.Y.

12+50.00

NEW R/W

630.09
633.95'

Ex. R/W

3.48%

3.43%

6:1

6:1

VARIES

2:1

628.20

EXC=171 C.Y. CUT=68 S.F.

FILL=117 S.F.

EMB=280 C.Y.

12+00.00

NEW R/W

631.57
634.74'

Ex. R/W

3.48%

3.43%

6:1

6:1

VARIES

EXC=108 C.Y. CUT=117 S.F.

FILL=186 S.F.

EMB=333 C.Y.

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLTON

10/11/2023

5'
5'

masflitg
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1/10/2023

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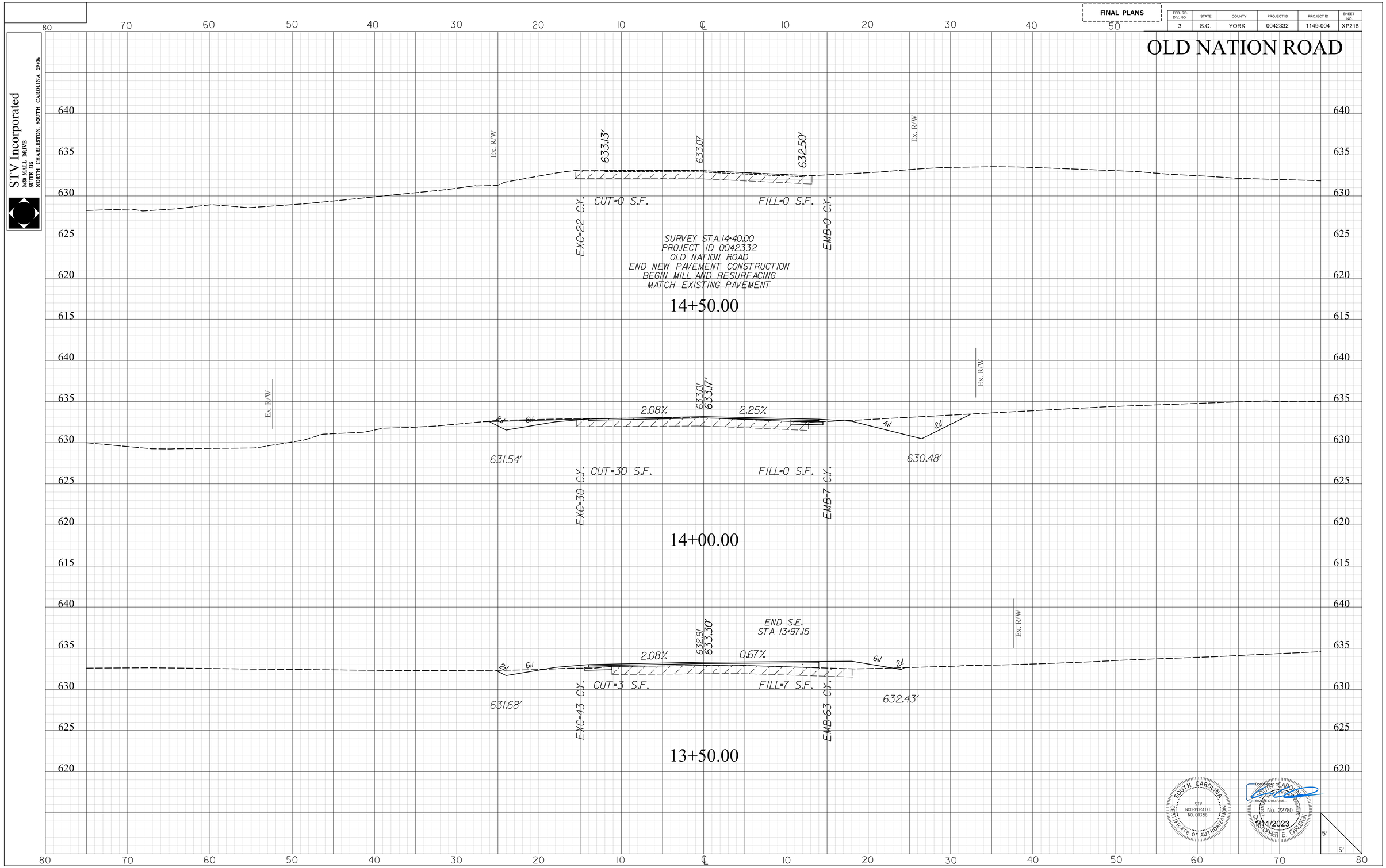
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP216

OLD NATION ROAD



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1/10/2023

20XS.DGN

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP217

OLD NATION ROAD

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80

640 635 630 625 620

Ex. R/W

632.99′ 632.87 632.15′

EXC=0 C.Y. CUT=0 S.F. FILL=0 S.F. EMB=0 C.Y.

16+00.00

633.07′ 632.97 632.34′

EXC=0 C.Y. CUT=0 S.F. FILL=0 S.F. EMB=0 C.Y.

15+50.00

633.21′ 633.06 632.56′

EXC=0 C.Y. CUT=0 S.F. FILL=0 S.F. EMB=0 C.Y.

15+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Christopher E. Carlton
No. 22780
1/11/2023

5′ 5′

masflitg
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1/10/2023

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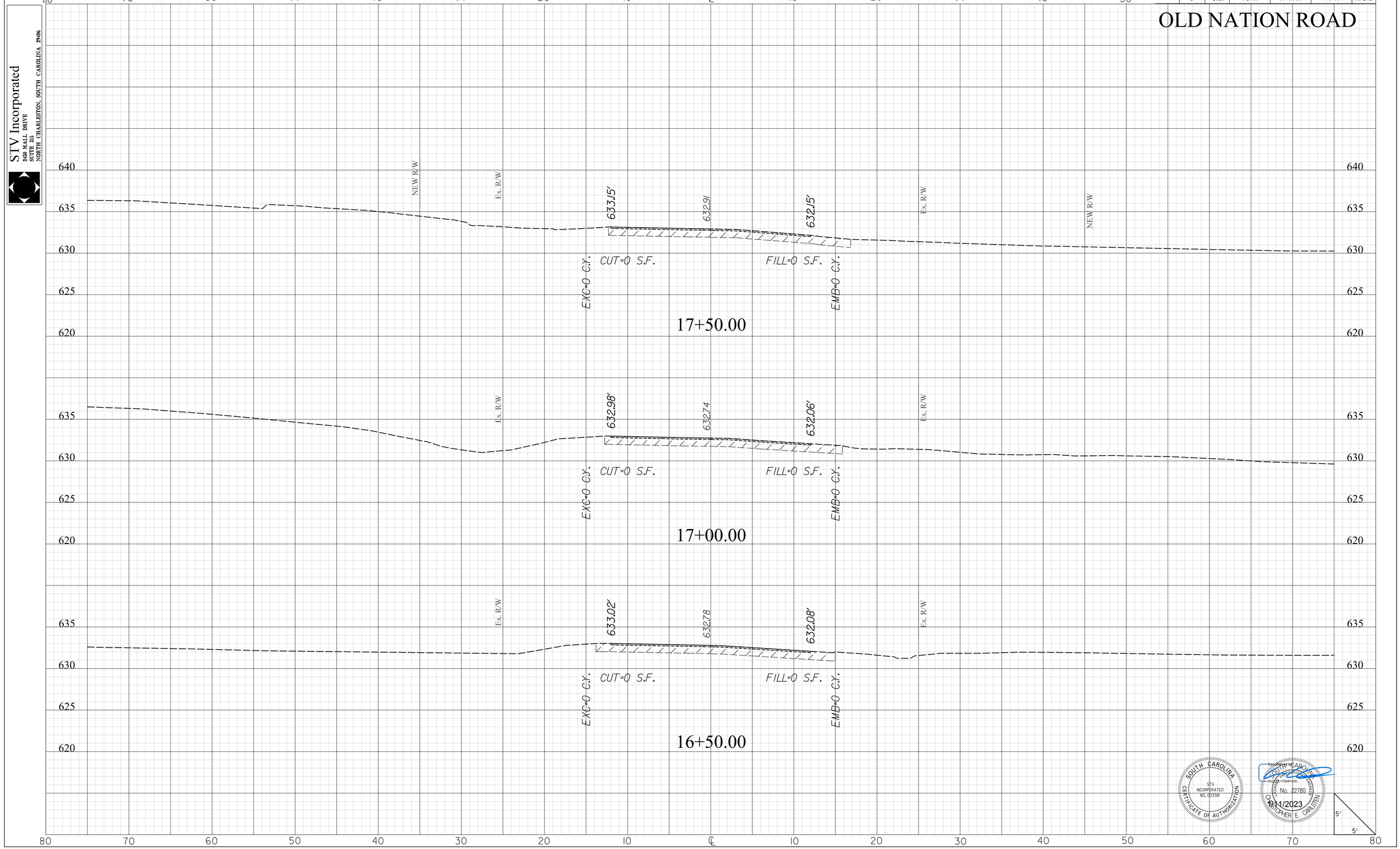
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP218

OLD NATION ROAD



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

20XS.DGN

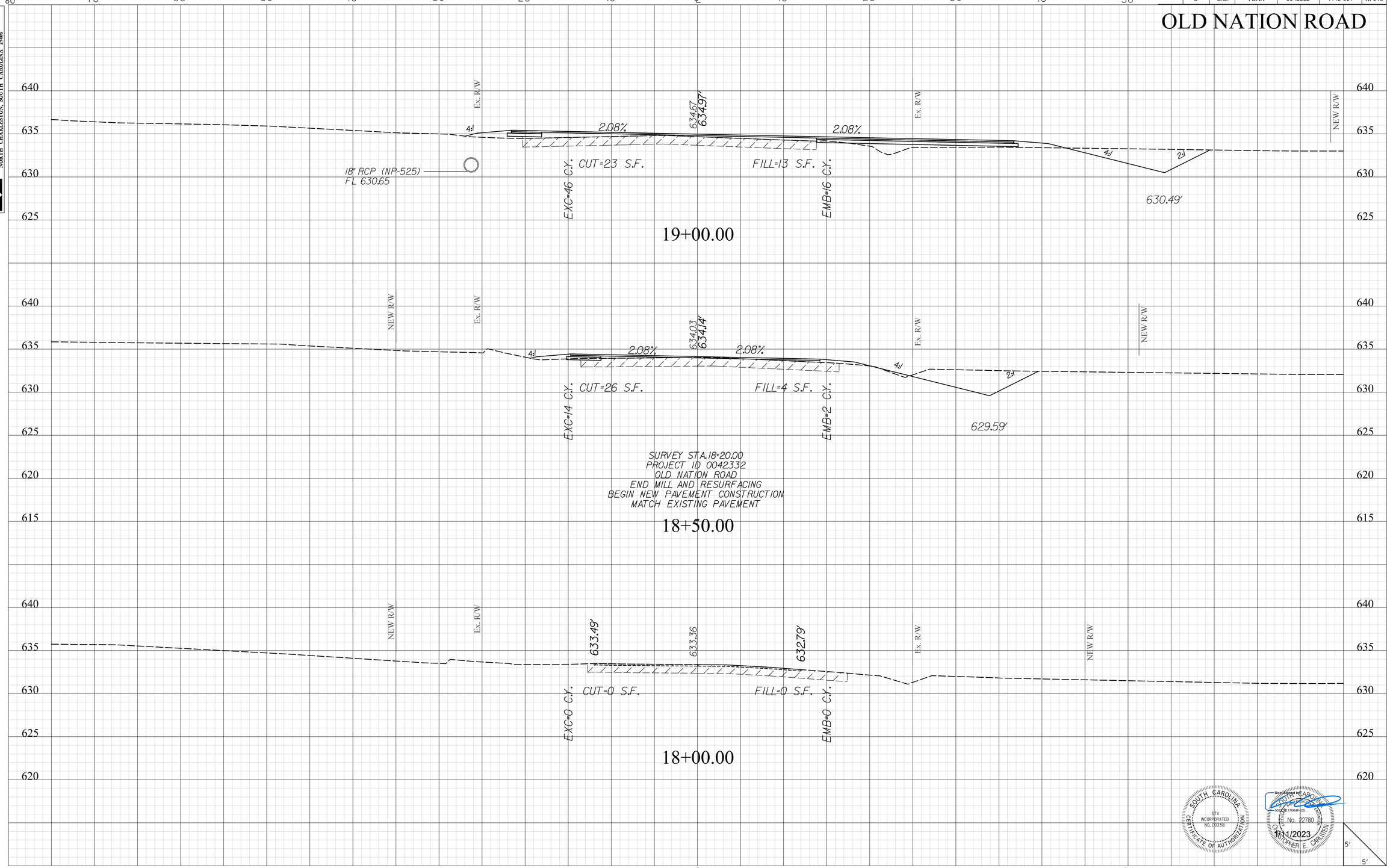
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP219

OLD NATION ROAD

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. 00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

5'
5'

mastiltg
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1/10/2023

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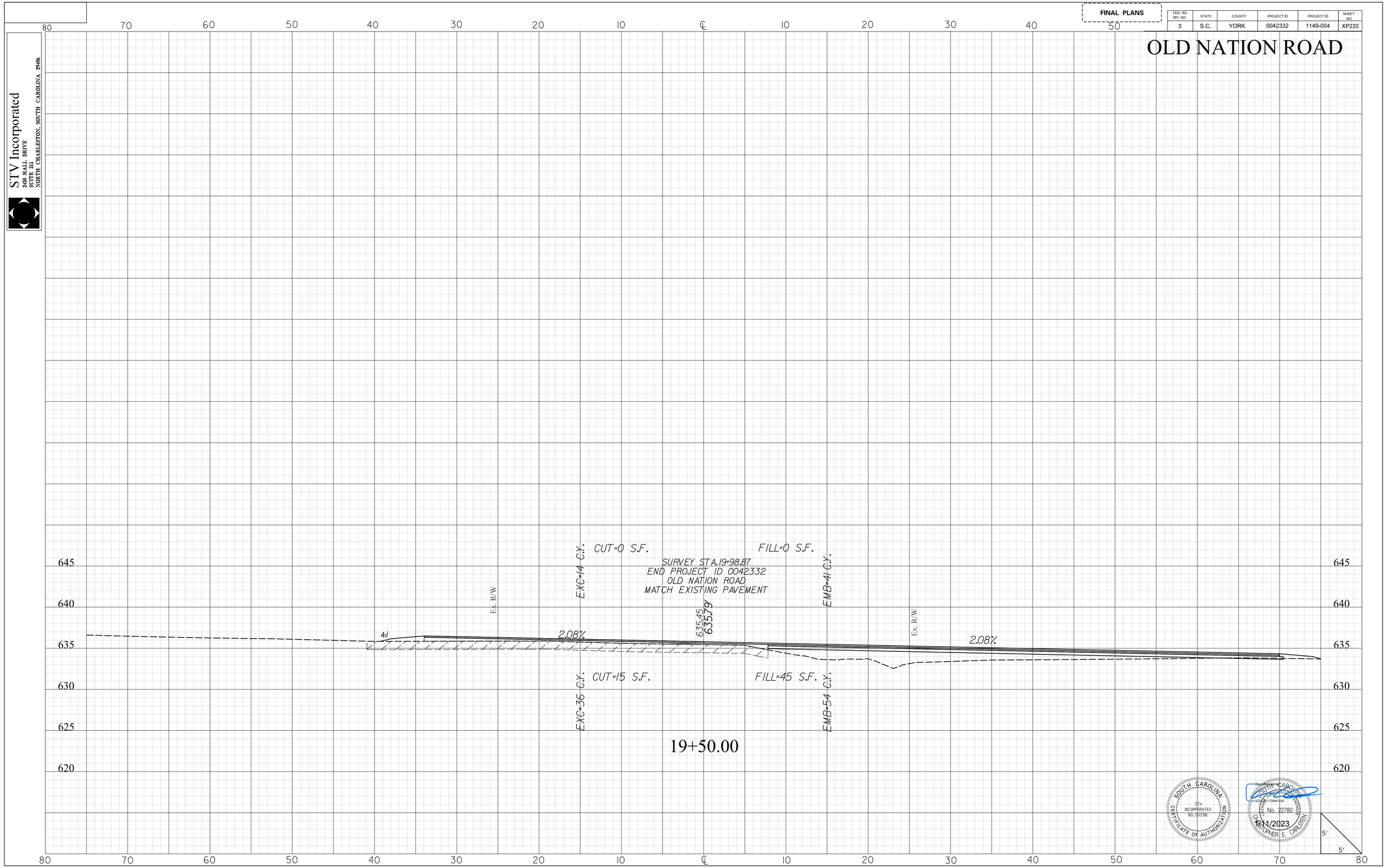
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP220

OLD NATION ROAD

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Christopher E. Carlton
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
10/11/2023

masflitg
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1/10/2023

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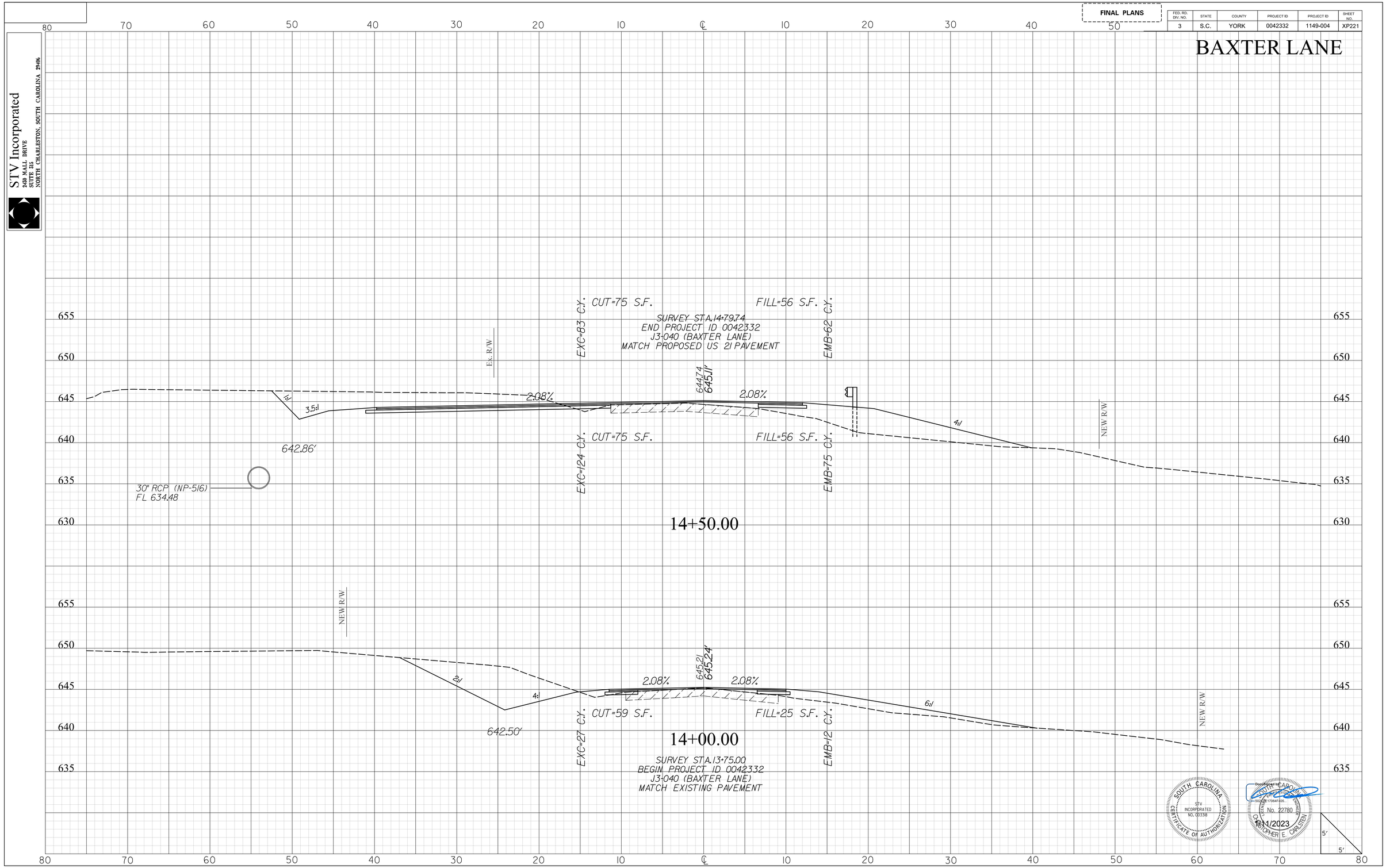
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP221

BAXTER LANE

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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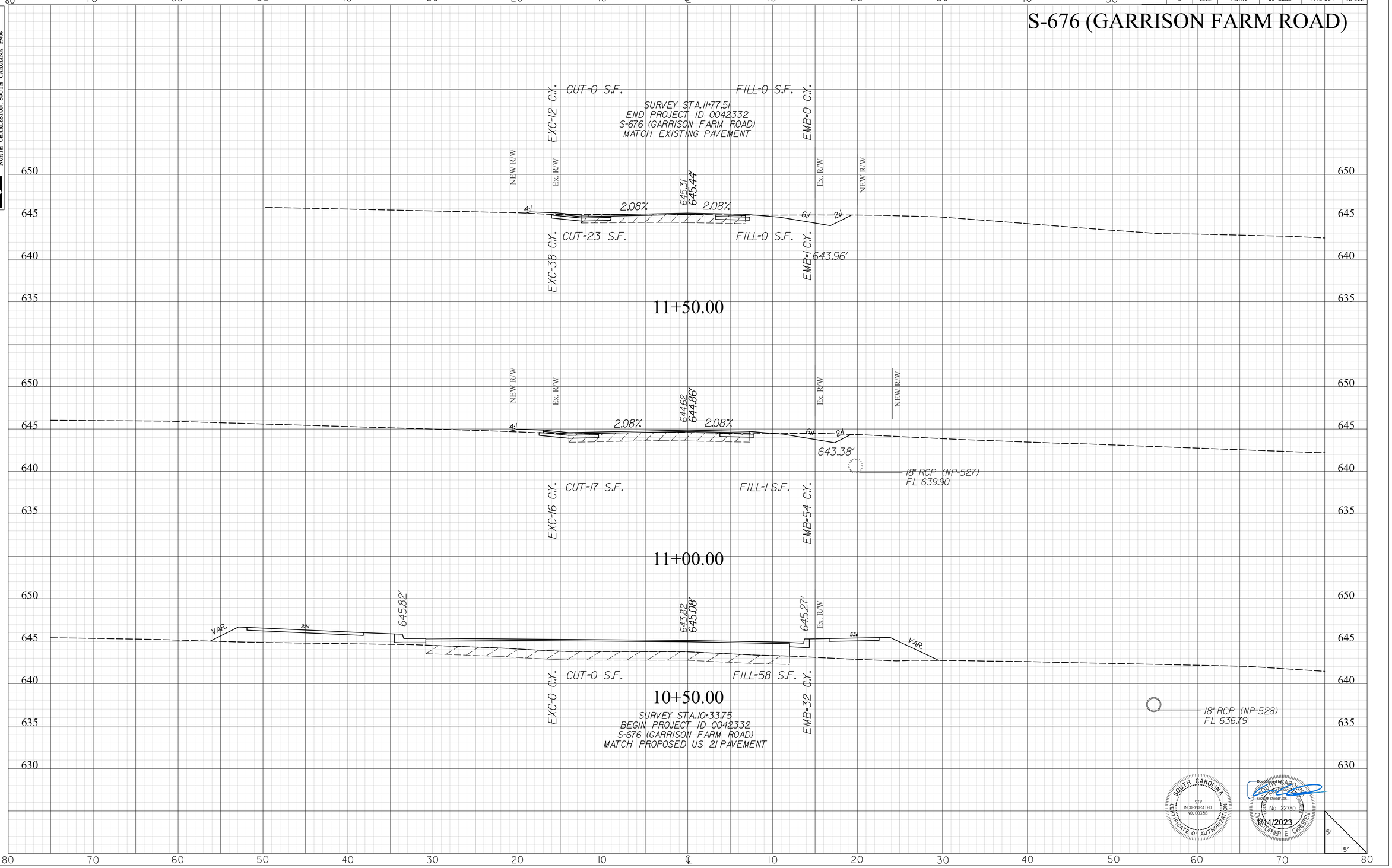
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP222

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-676 (GARRISON FARM ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSEN
No. 22780
11/1/2023

mastiltg
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11/10/2023

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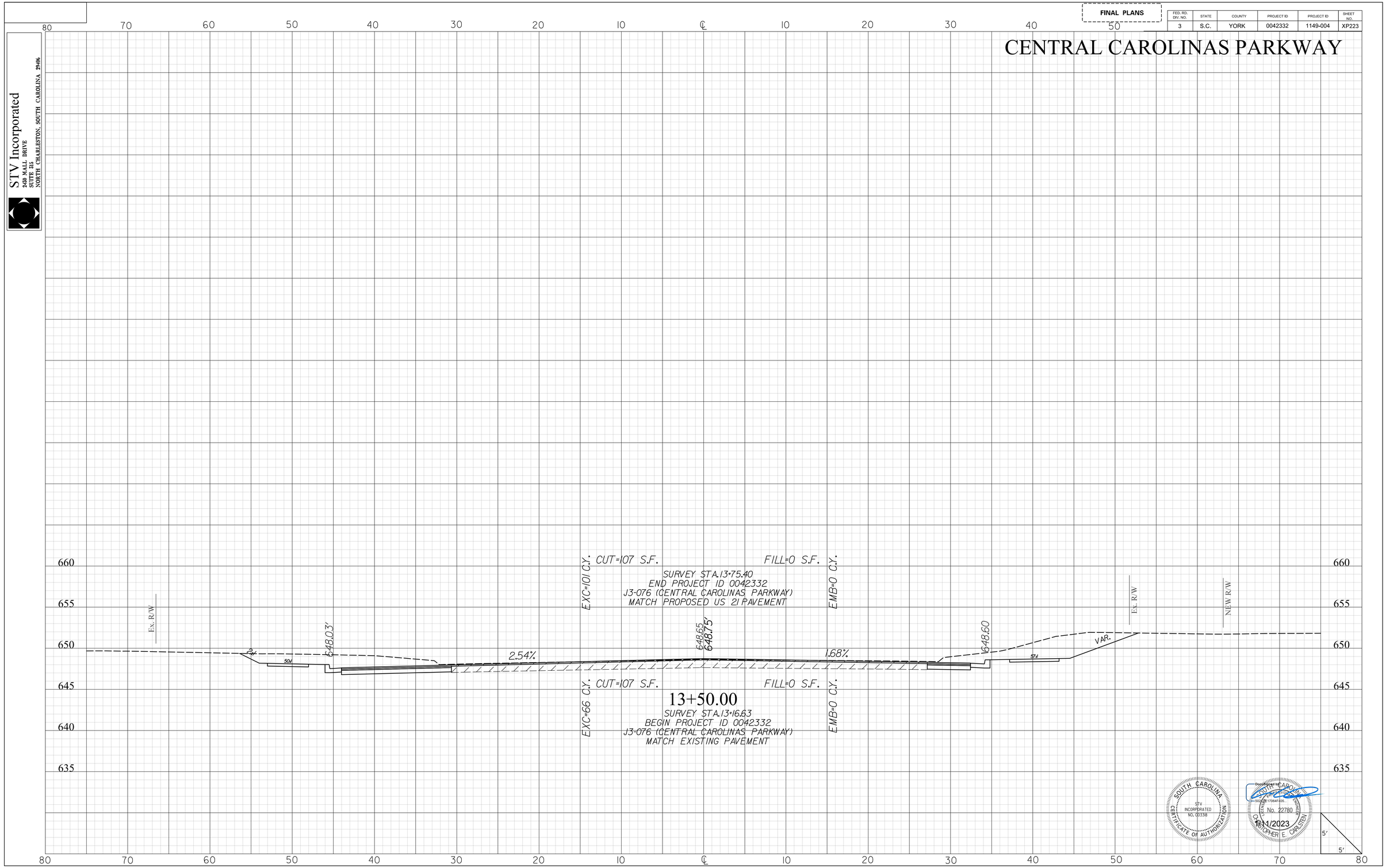
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP223

CENTRAL CAROLINAS PARKWAY



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

20XS.DGN

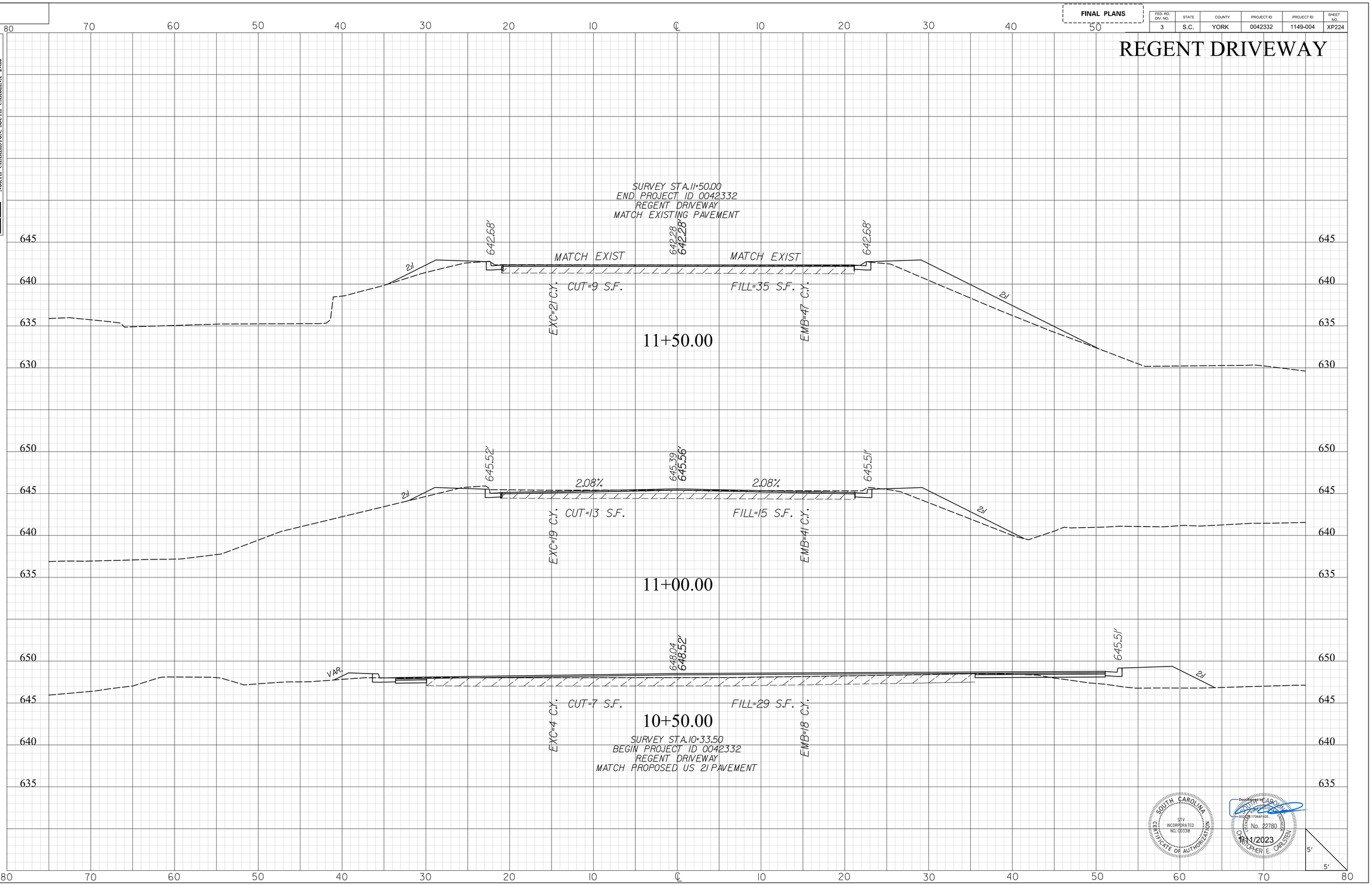
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP224

REGENT DRIVEWAY

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARLTEN
SOUTH CAROLINA
No. 22780
1/11/2023

masflitg
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1/10/2023

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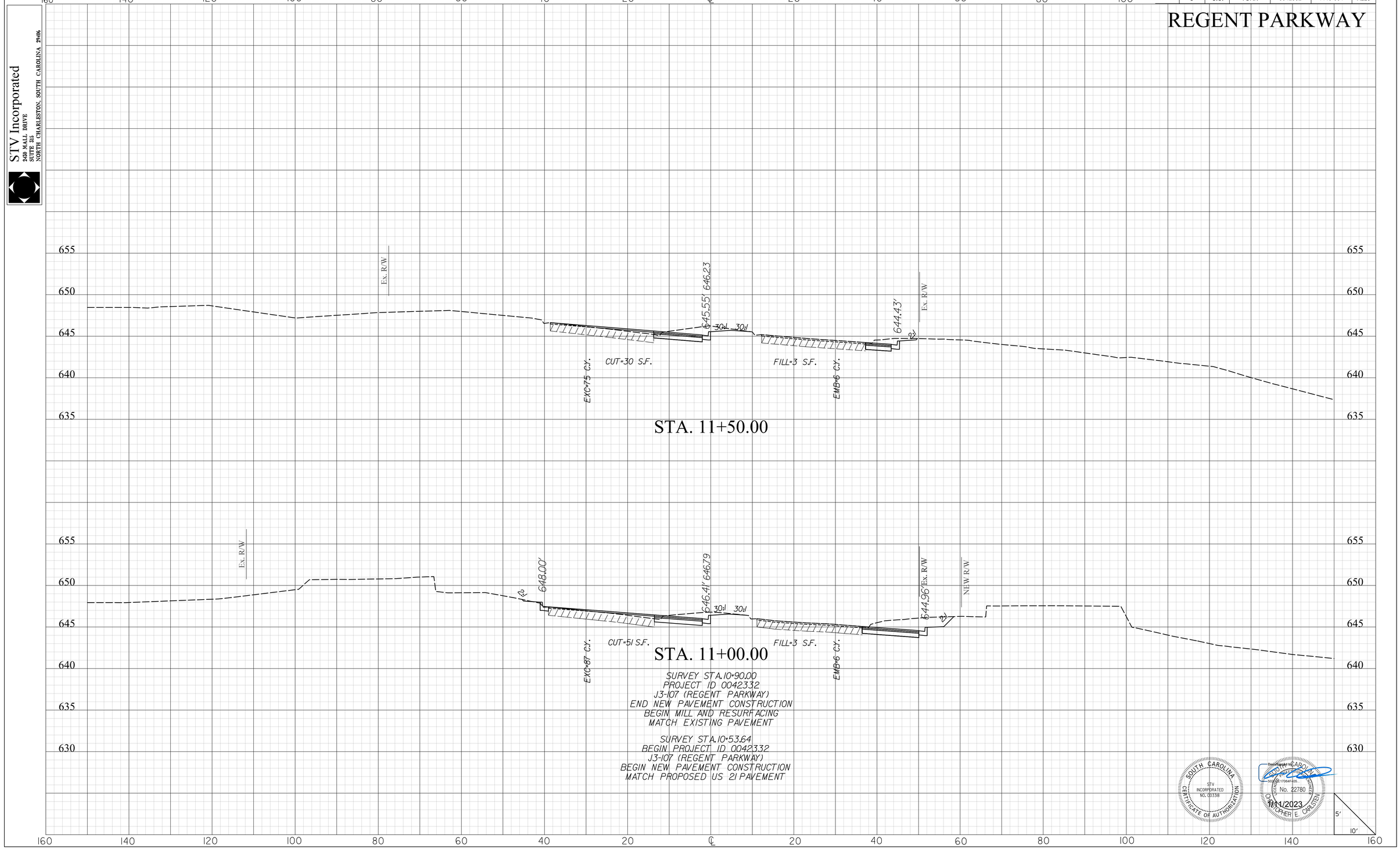
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X225

REGENT PARKWAY



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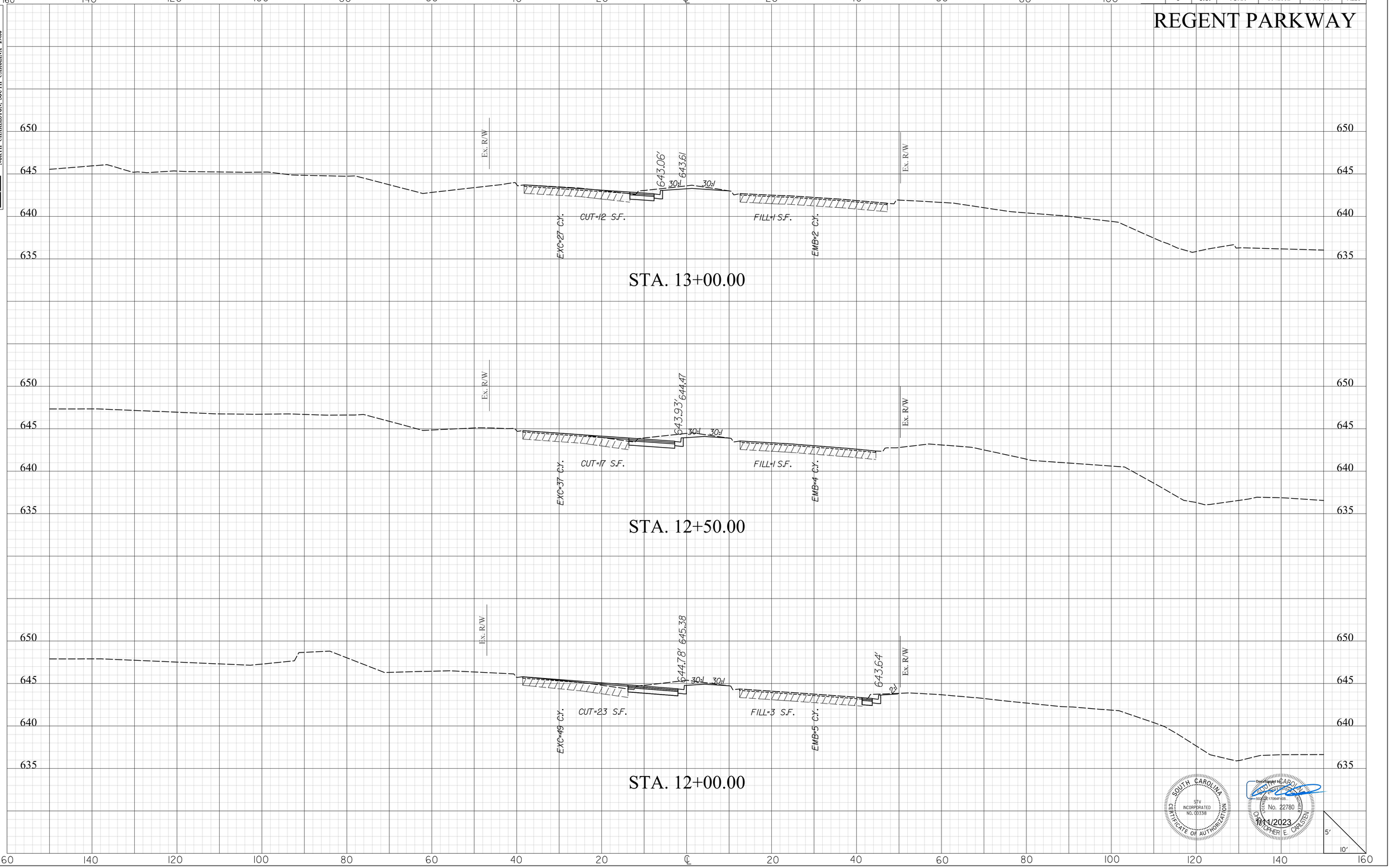
STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X226

REGENT PARKWAY



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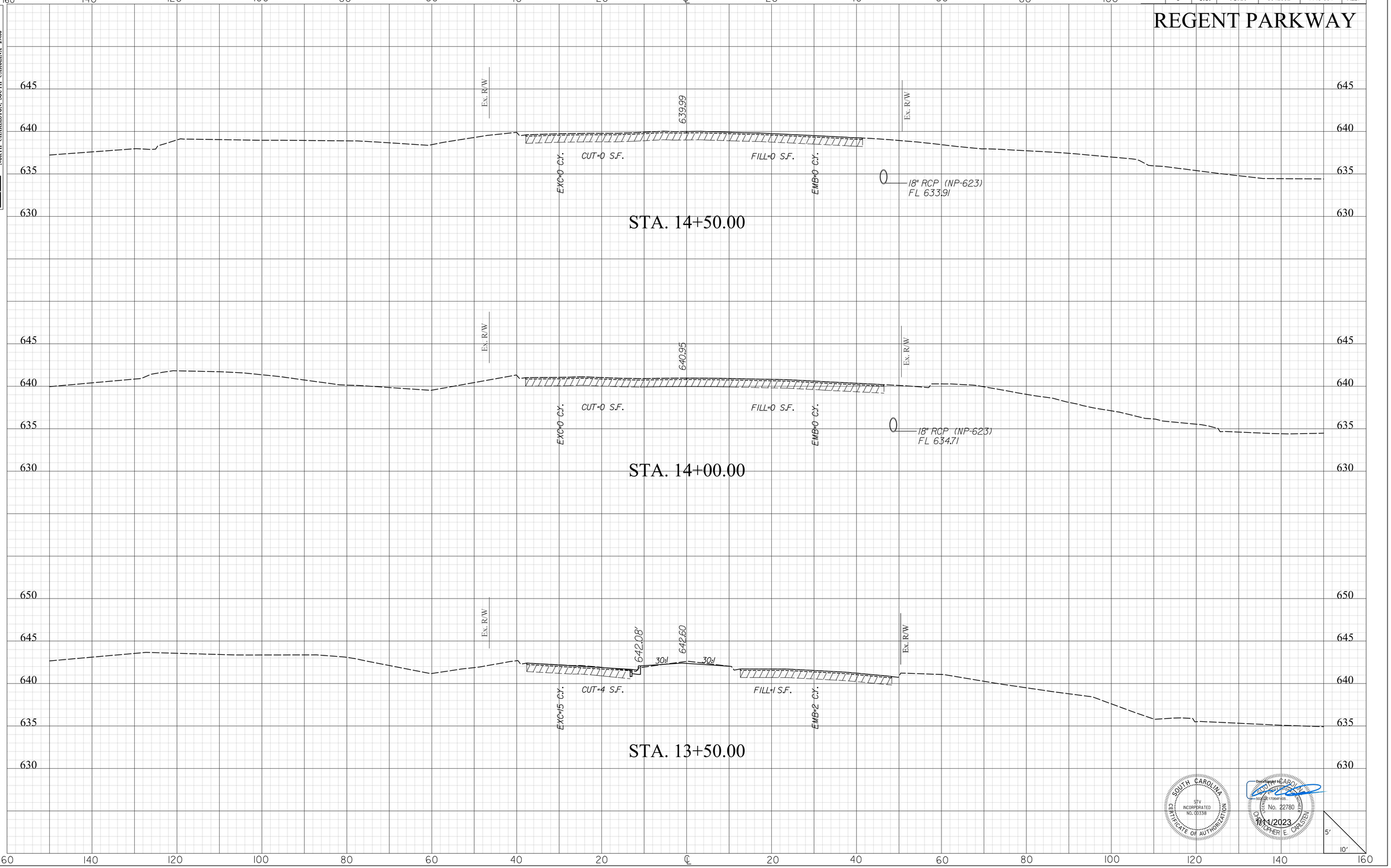
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X227

REGENT PARKWAY

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X228

REGENT PARKWAY

SURVEY STA.15+25.00
END PROJECT ID 0042332
J3-107 (REGENT PARKWAY)
END MILL AND RESURFACING
MATCH EXISTING PAVEMENT

Ex. R/W
638.72
Ex. R/W
CUT=0 S.F.
EXC=0 C.Y.
FILL=0 S.F.
EMB=0 C.Y.
18" RCP (NP-623)
FL 633.11

STA. 15+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
No. 22780
CHRISTOPHER E. CARLSTEN

7/11/2023

5'
10'

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

650 645 640 635 630

masflitg
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1/10/2023

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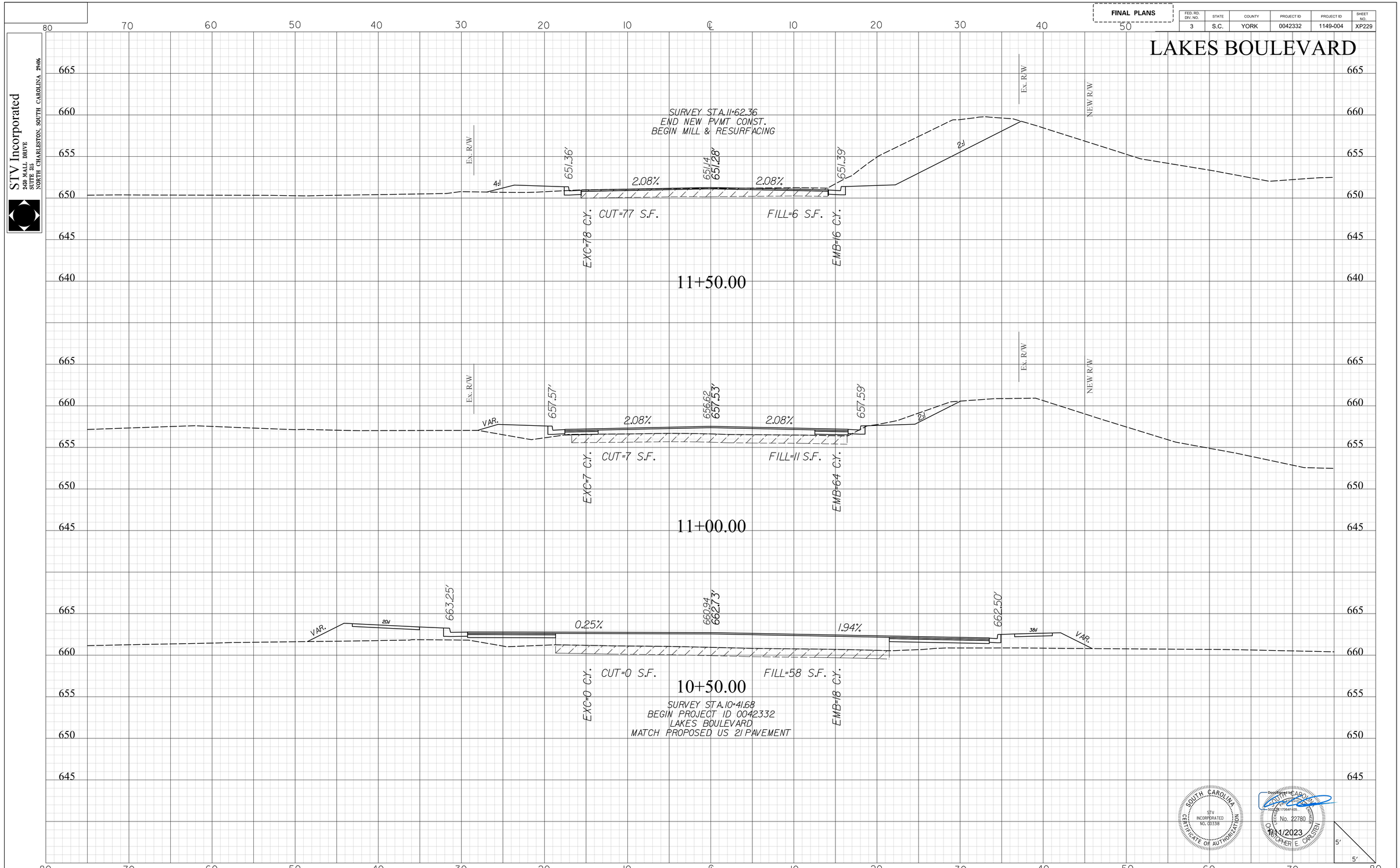
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP229

LAKES BOULEVARD



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. 00338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

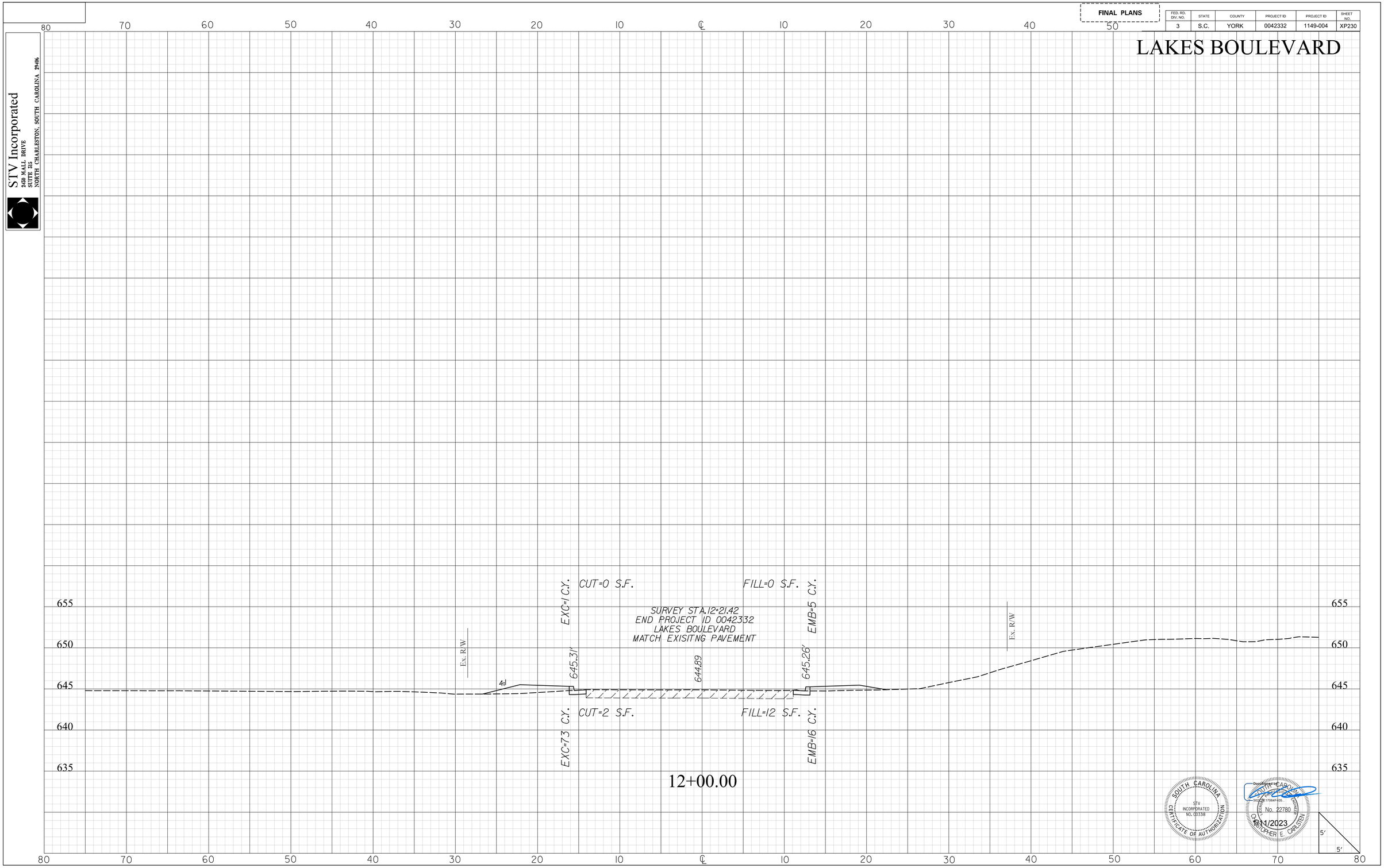
20X5.DGN

DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP230

LAKES BOULEVARD



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. 00338

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

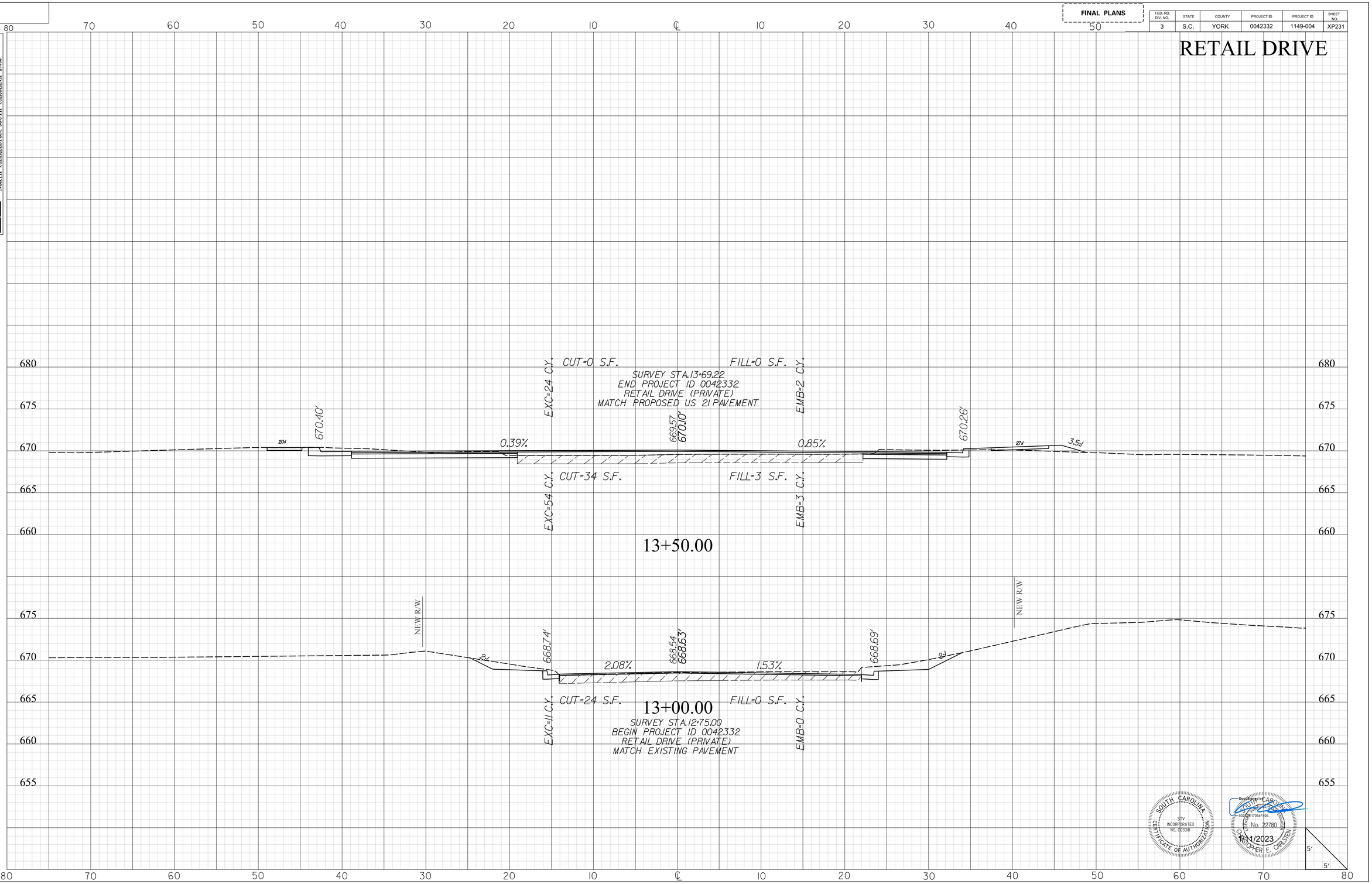
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP231

RETAIL DRIVE



masflitg
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1/10/2023

2DXS.DGN

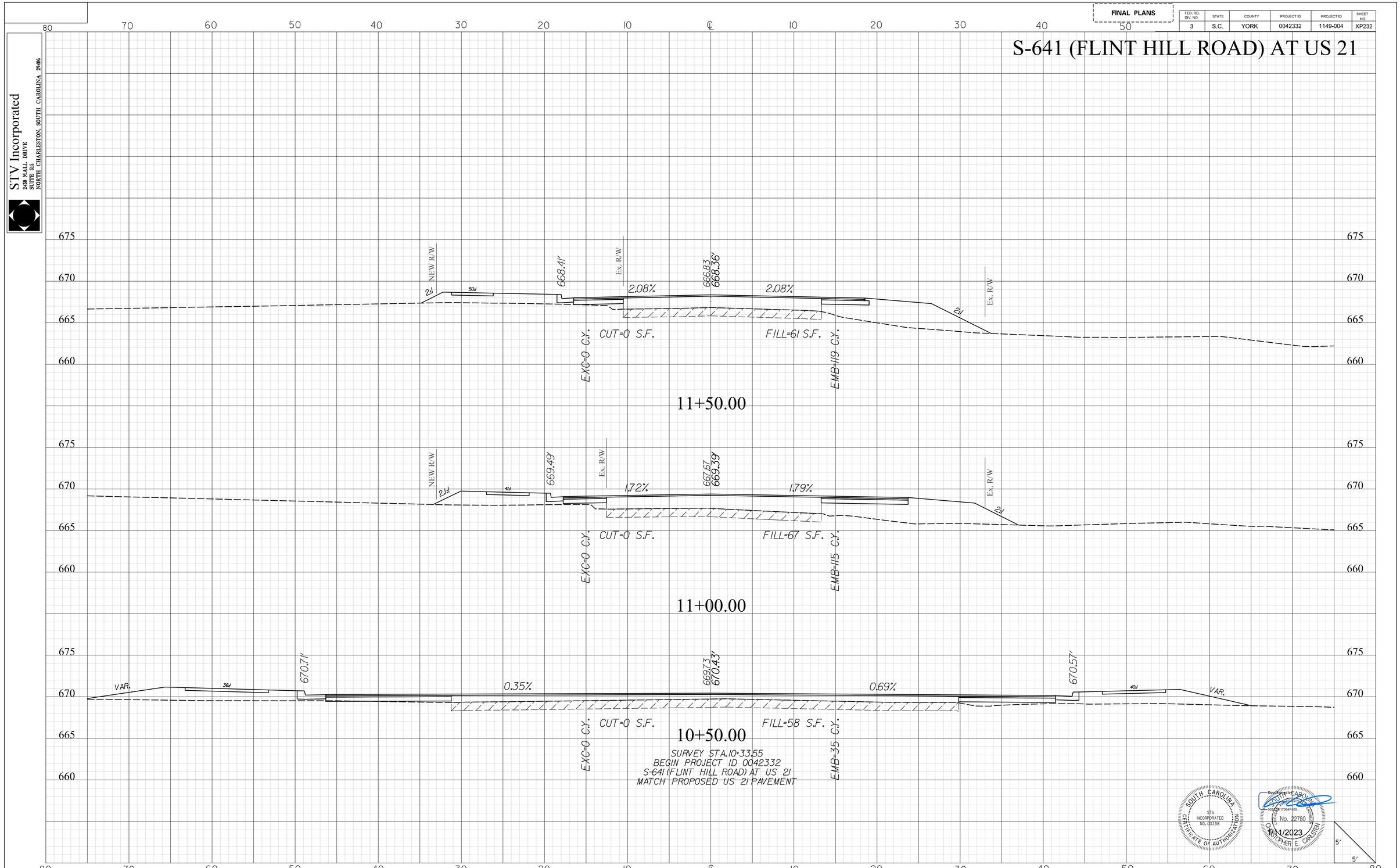
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP232

S-641 (FLINT HILL ROAD) AT US 21

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
11/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
I:\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\Plan Sheets\0042332_Sideroad_XPL.dgn
1/10/2023

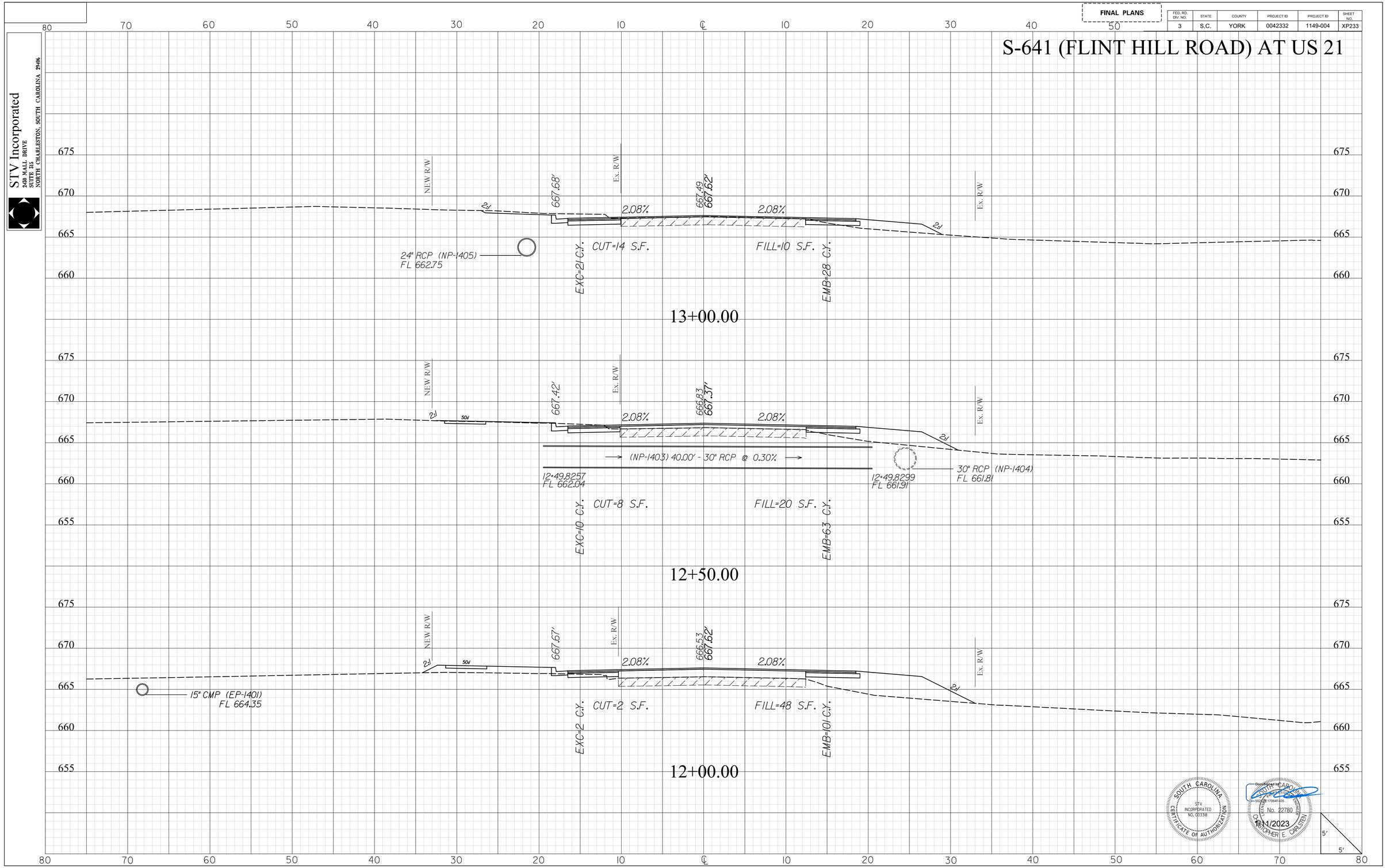
20XS.DGN

DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP233

S-641 (FLINT HILL ROAD) AT US 21



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. 003318 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
Date: 2023.01.11 17:06:47 -05'00'
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

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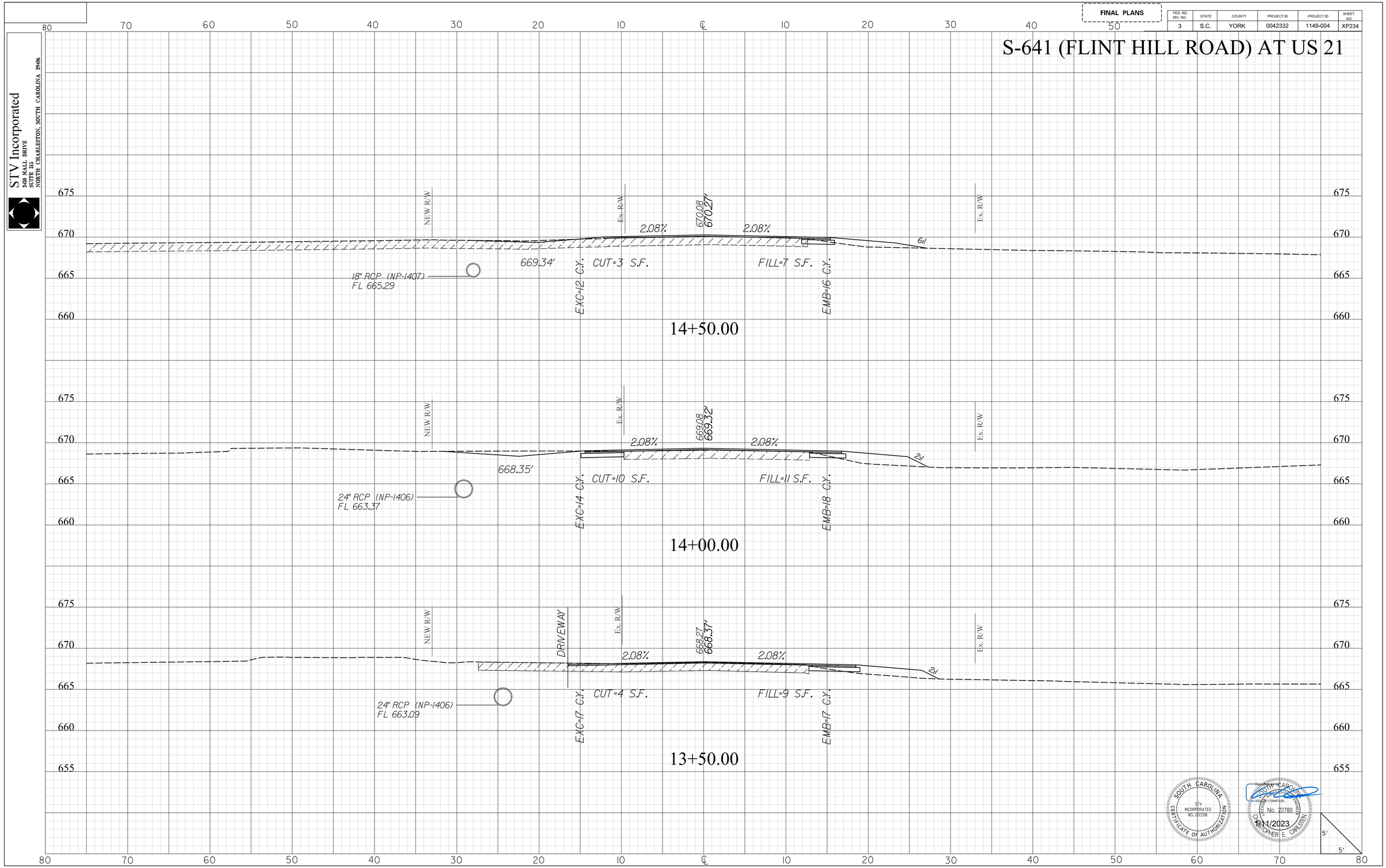
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP234

S-641 (FLINT HILL ROAD) AT US 21



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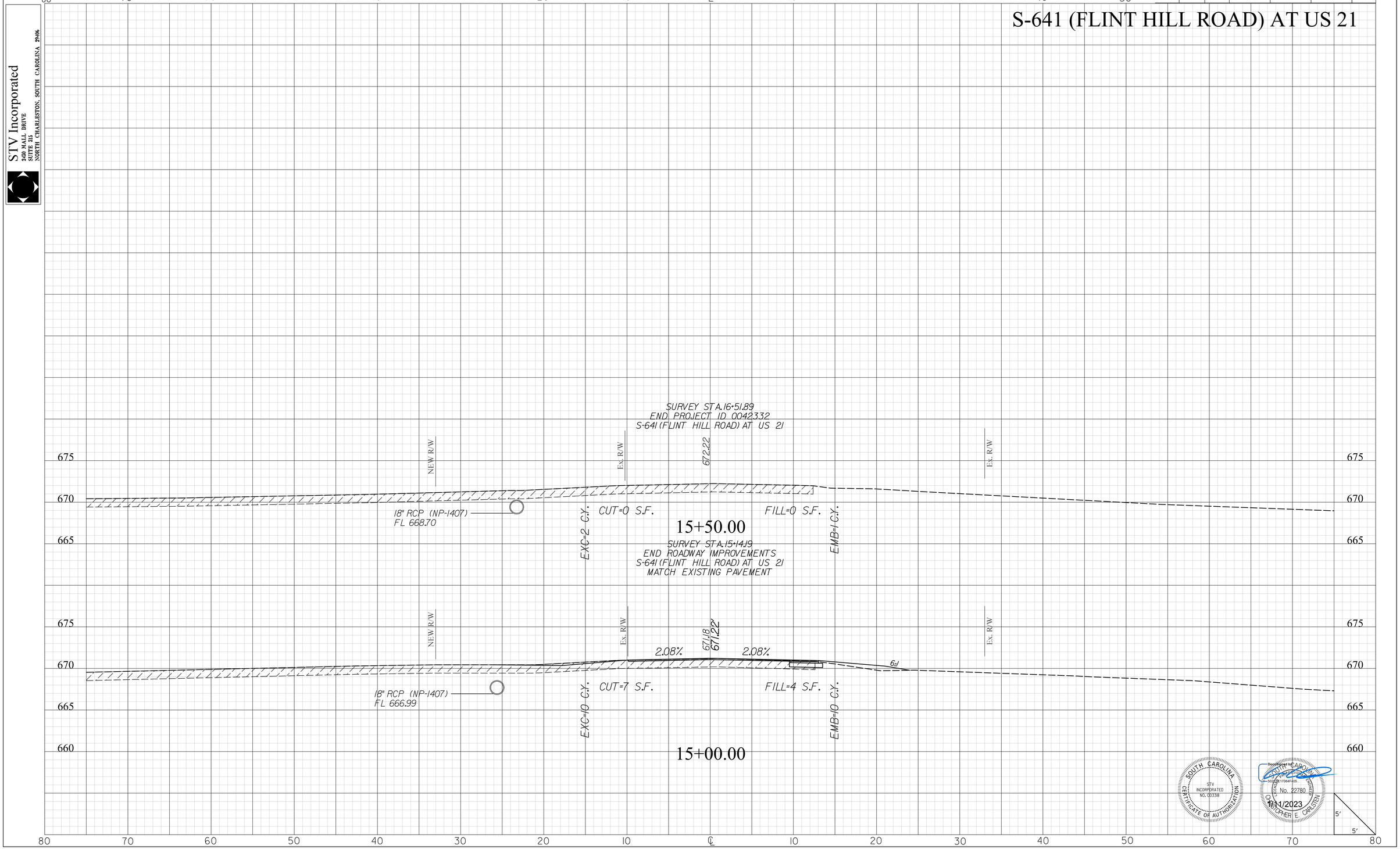
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP235

S-641 (FLINT HILL ROAD) AT US 21

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 11/11/2023 CHRISTOPHER E. CARLSTEN

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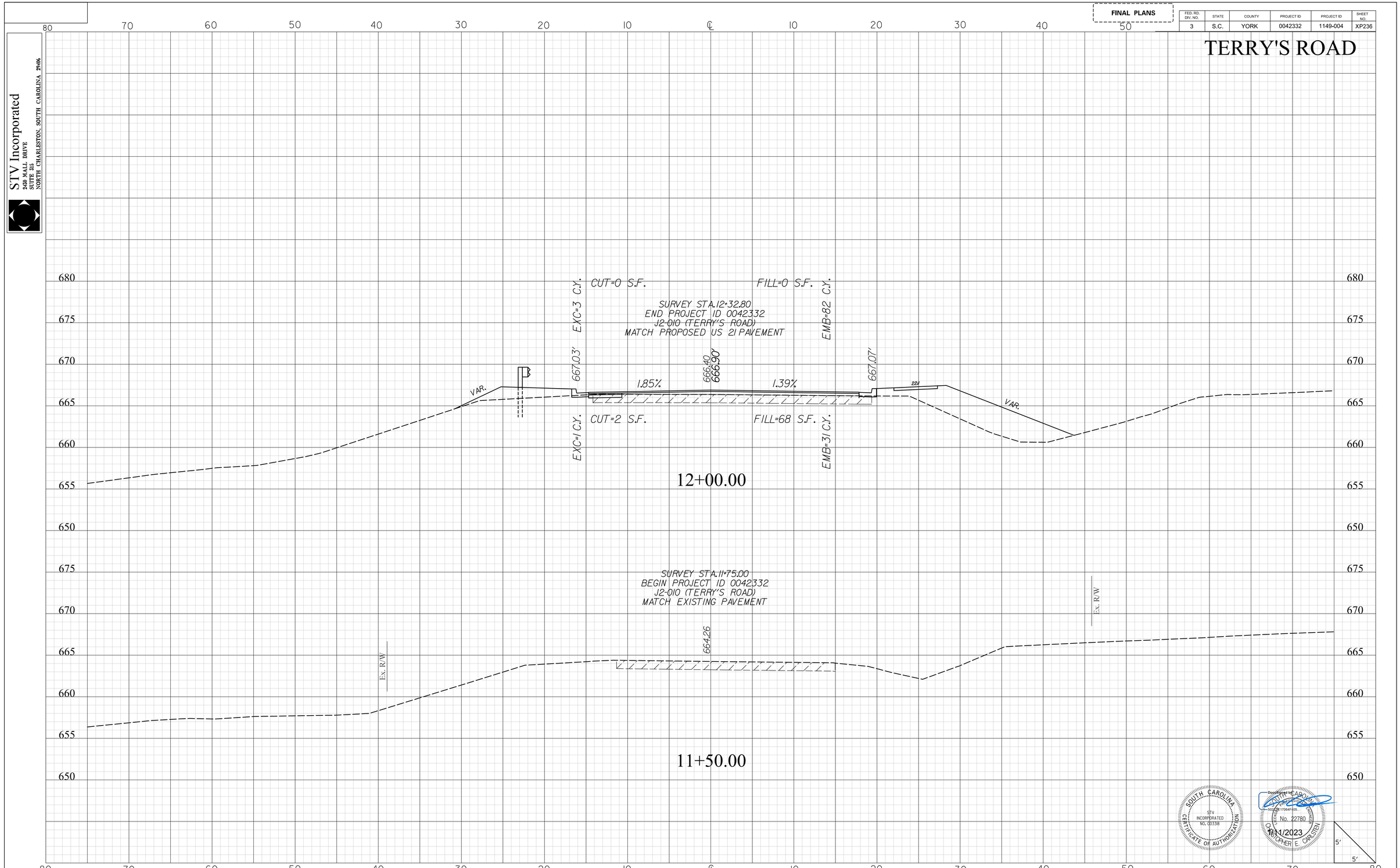
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP236

TERRY'S ROAD

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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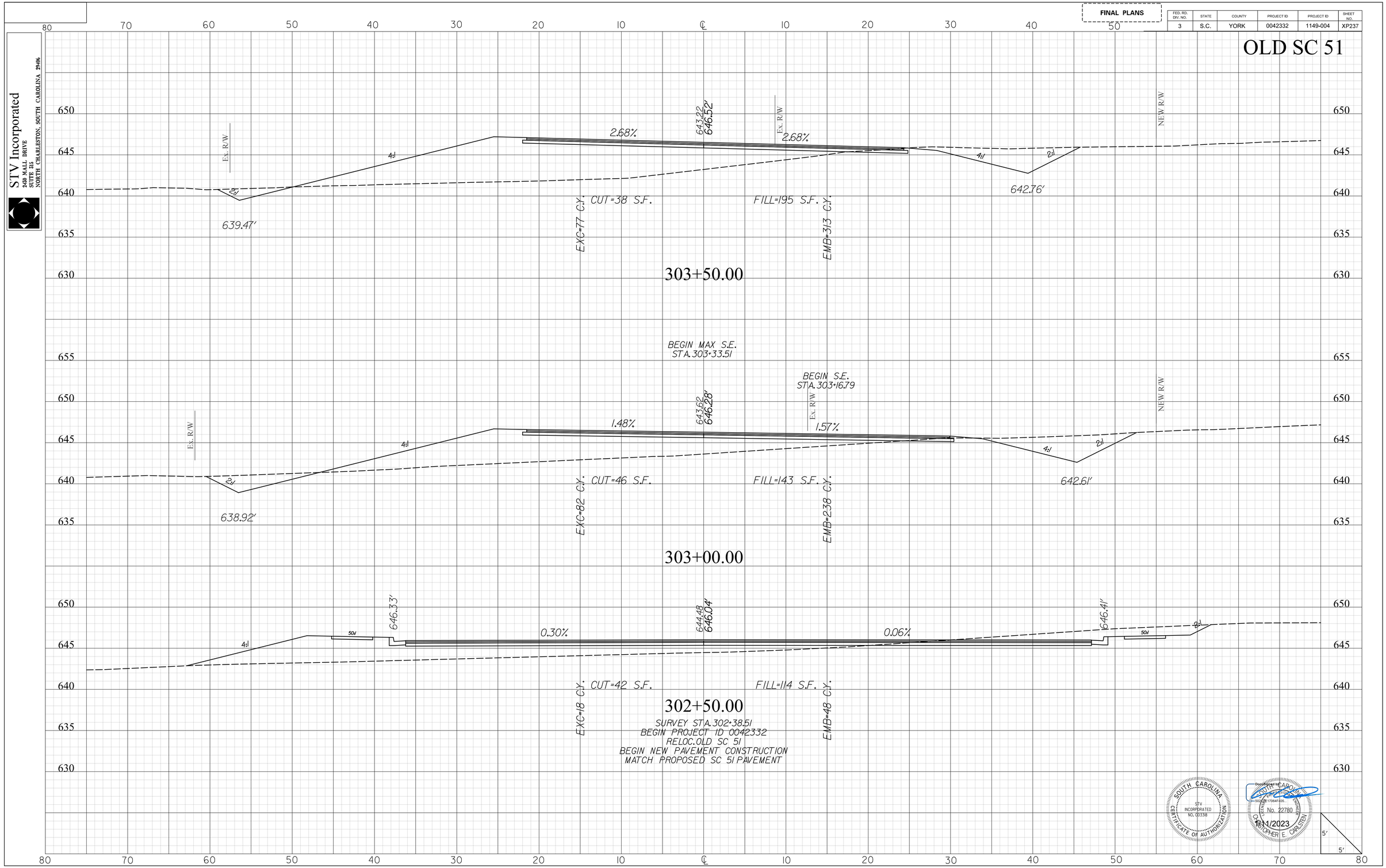
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP237

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

OLD SC 51



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 CHRISTOPHER E. CARLSTEN 7/11/2023

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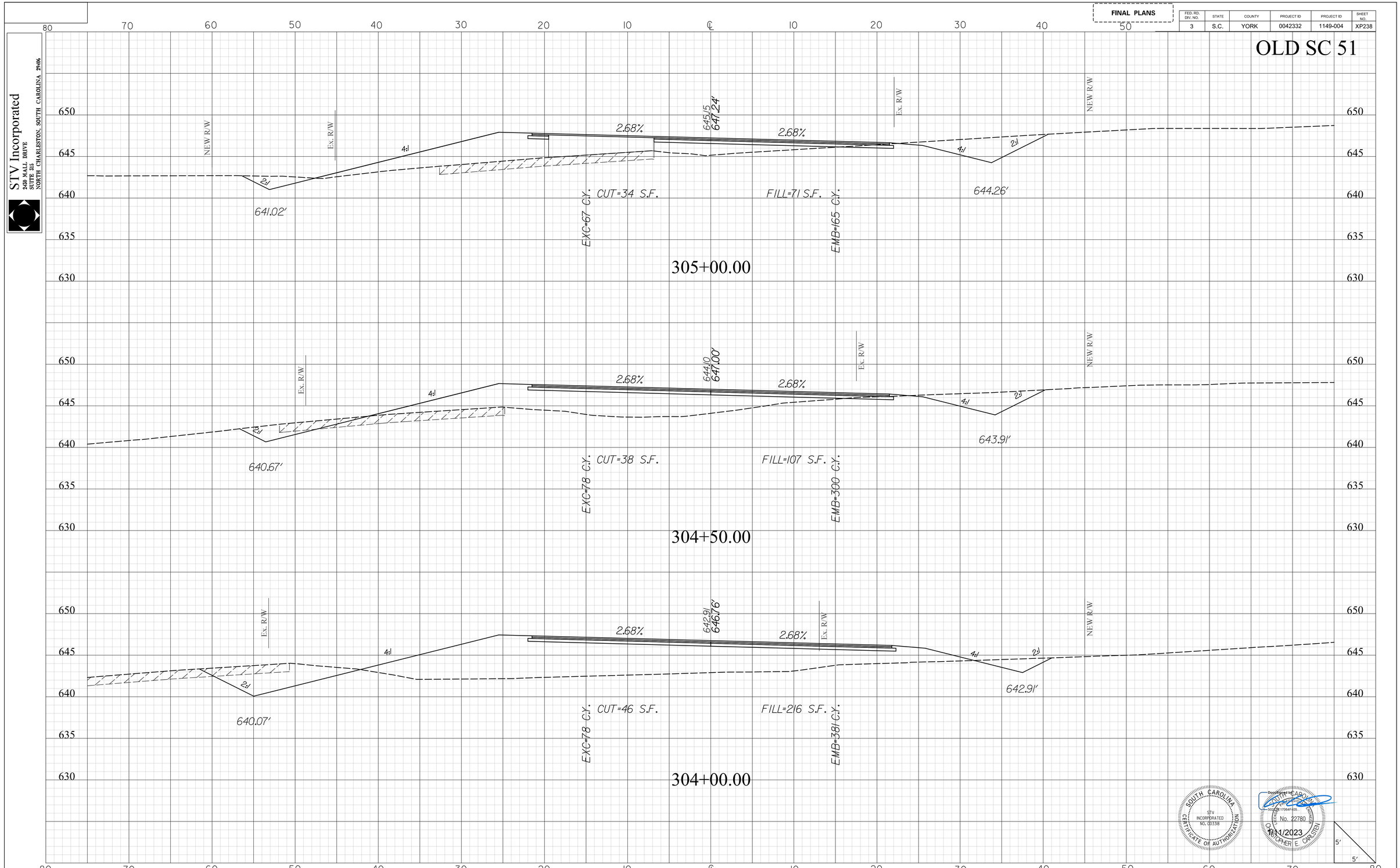
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP238

OLD SC 51



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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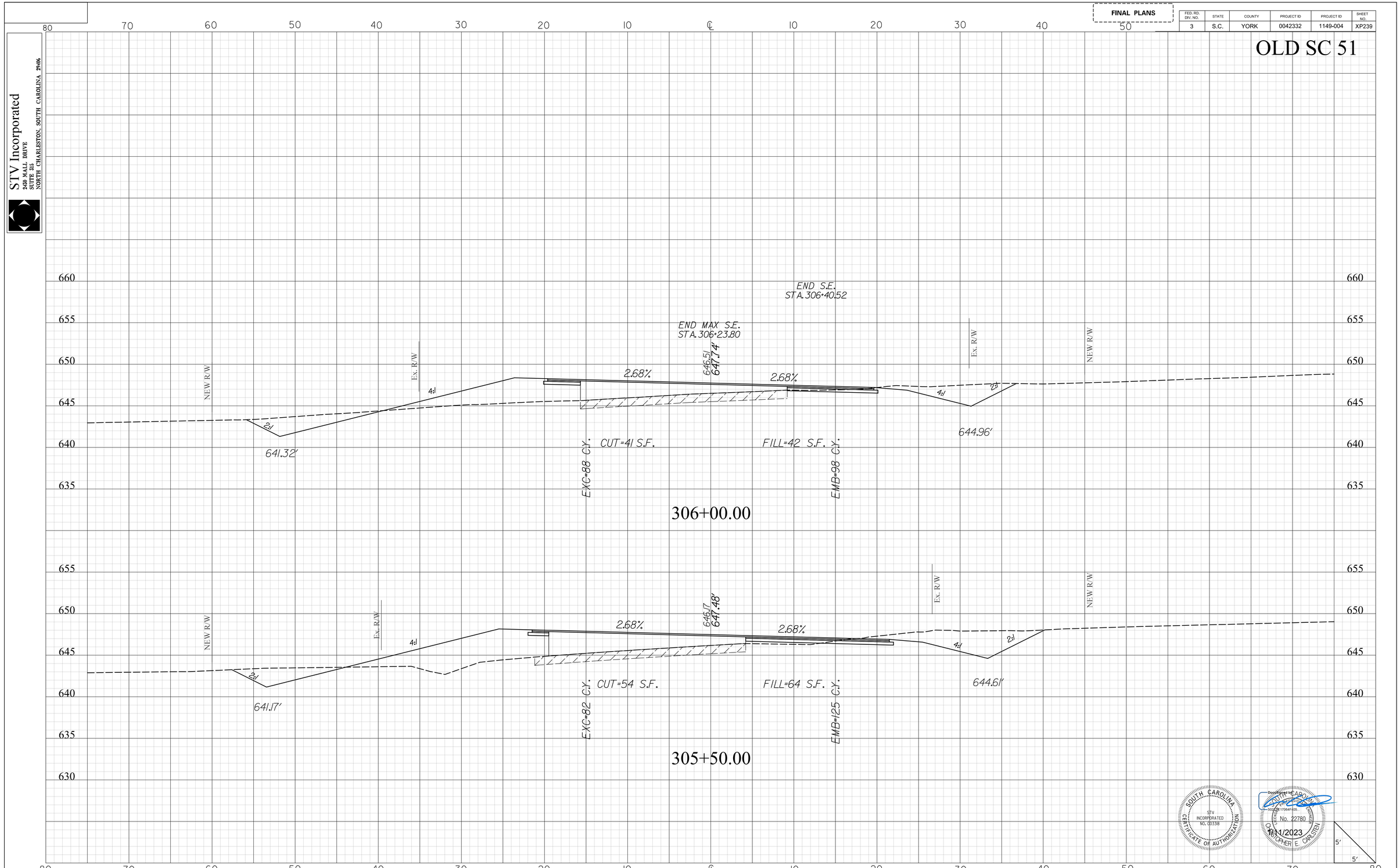
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP239

OLD SC 51

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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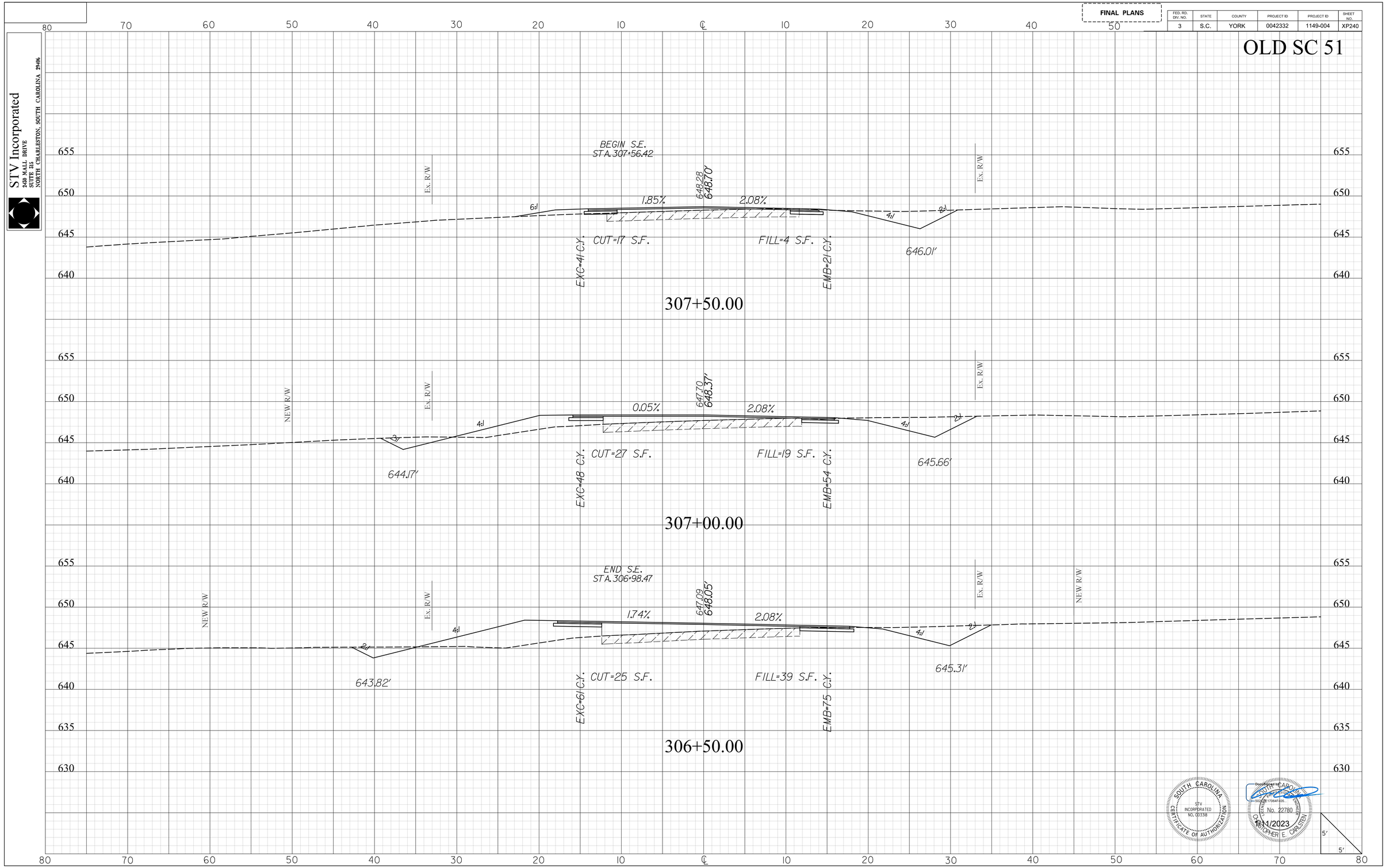
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP240

OLD SC 51

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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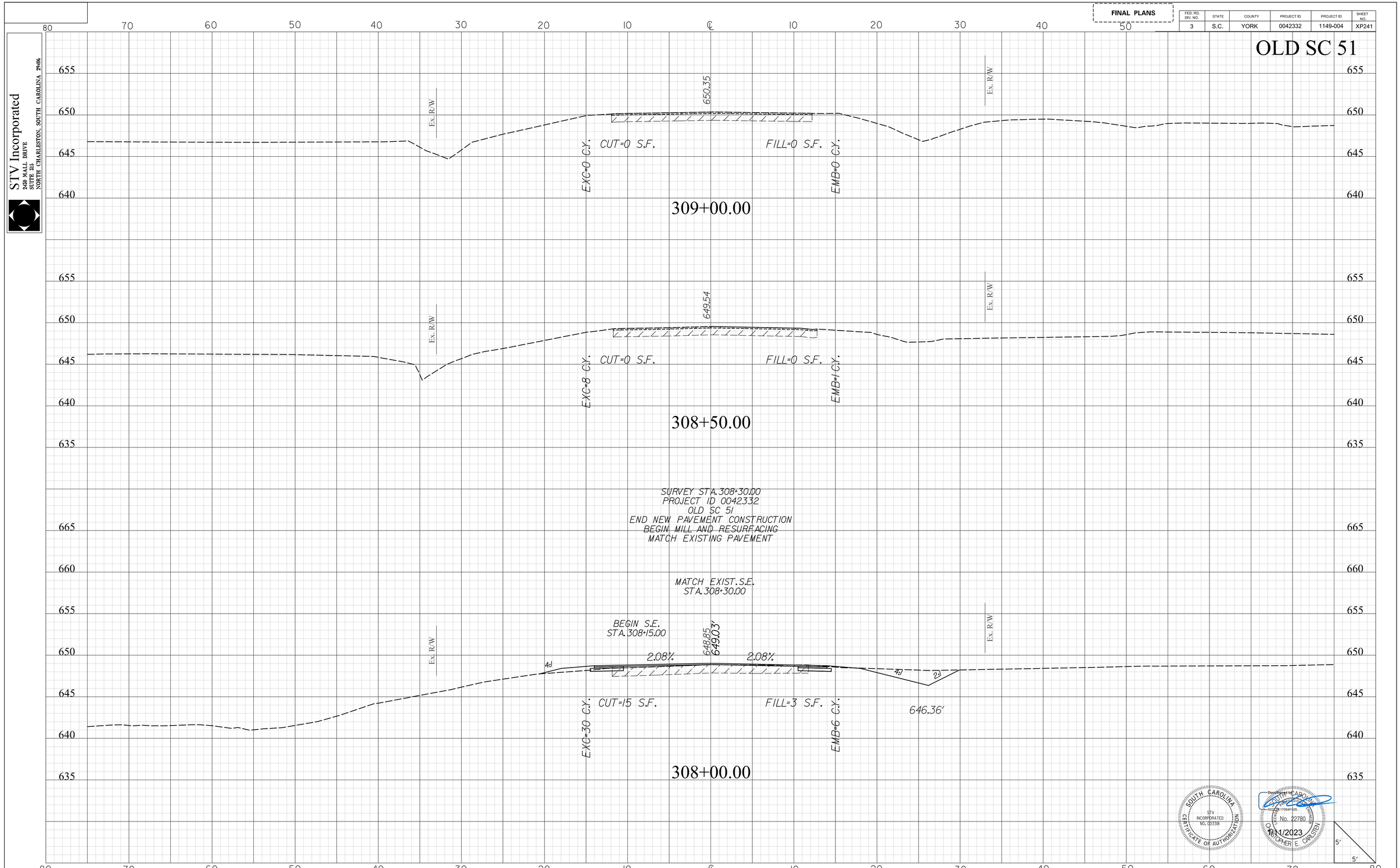
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP241

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

OLD SC 51



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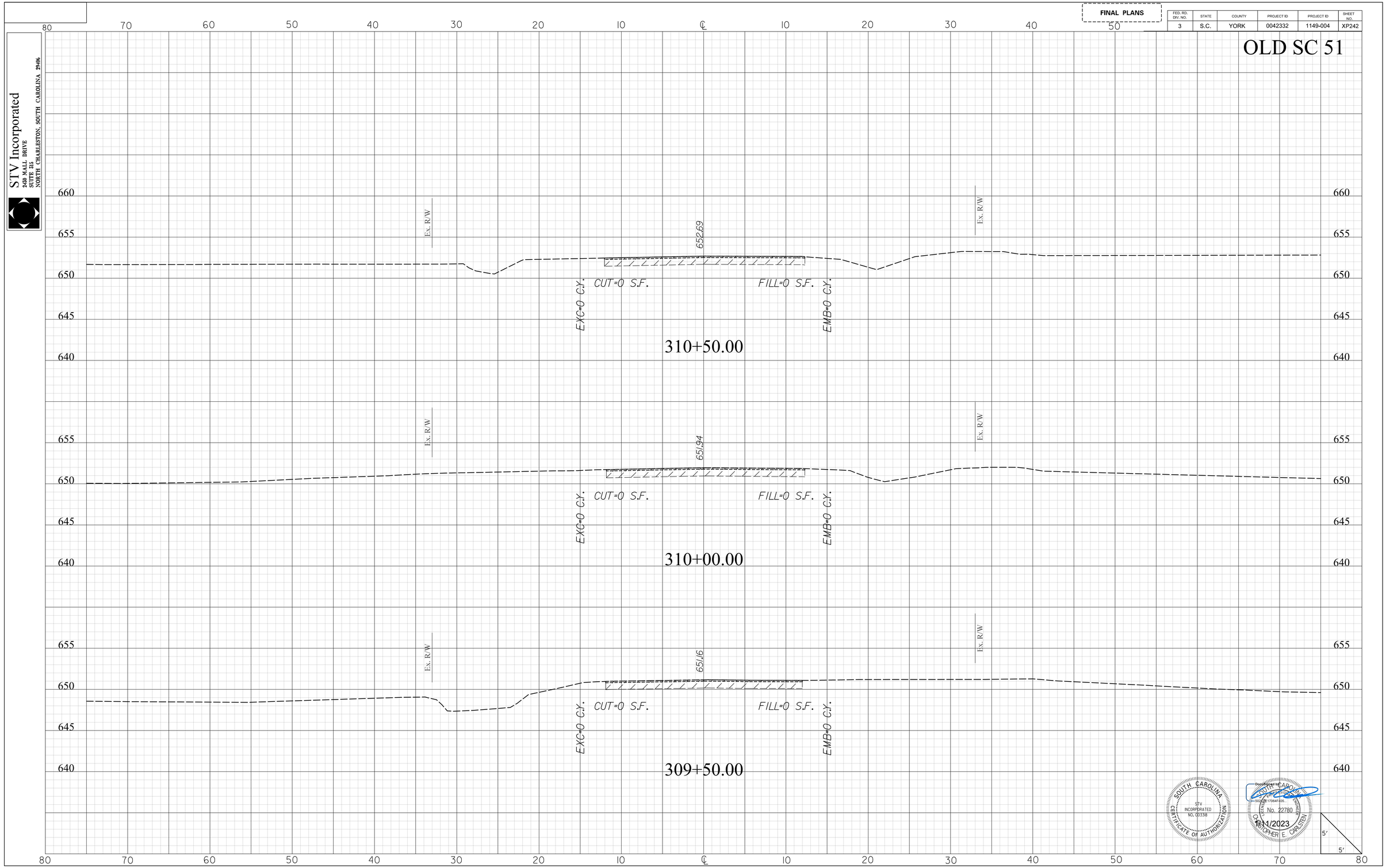
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP242

OLD SC 51



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

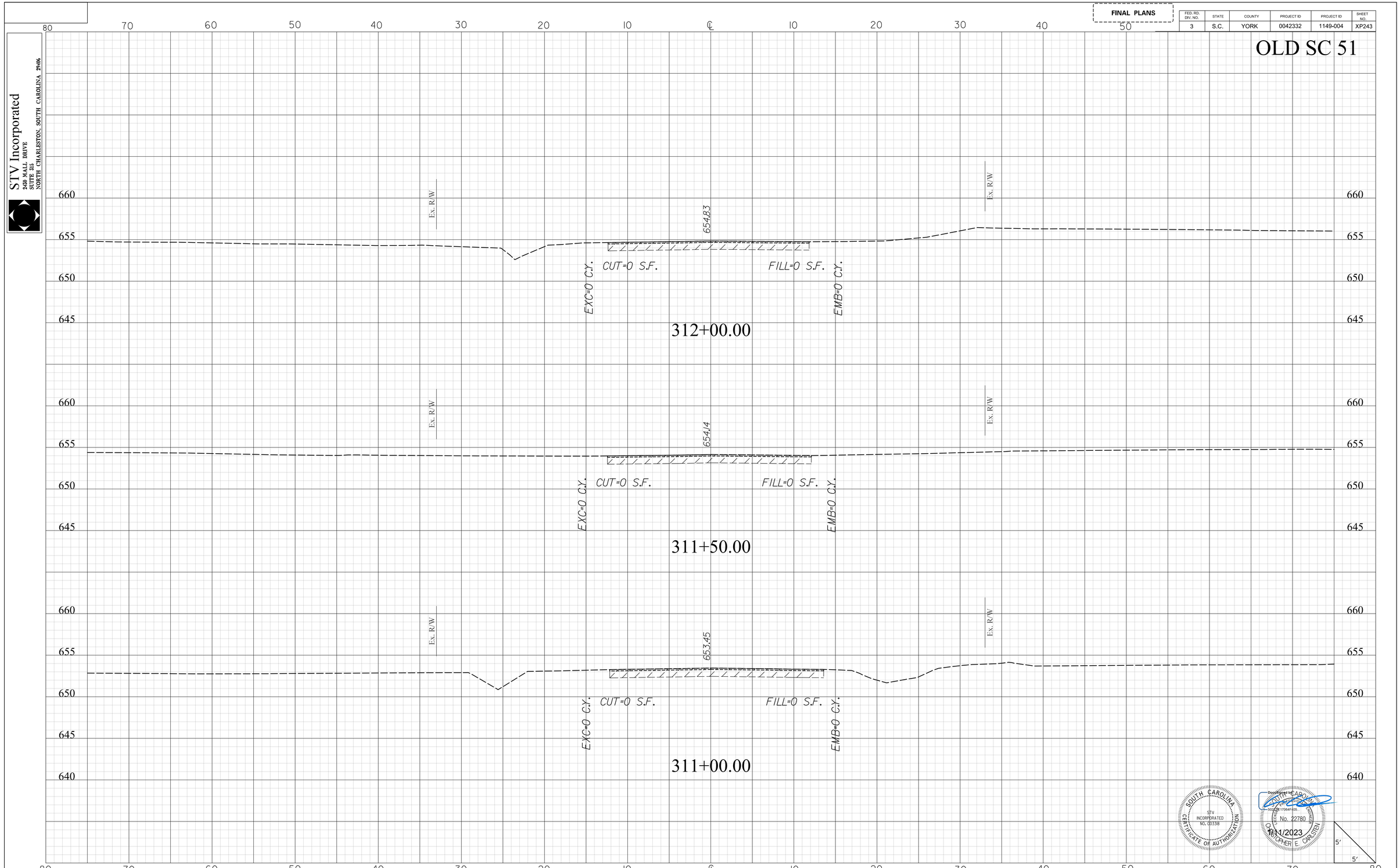
2DXS.DGN

DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP243

OLD SC 51



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

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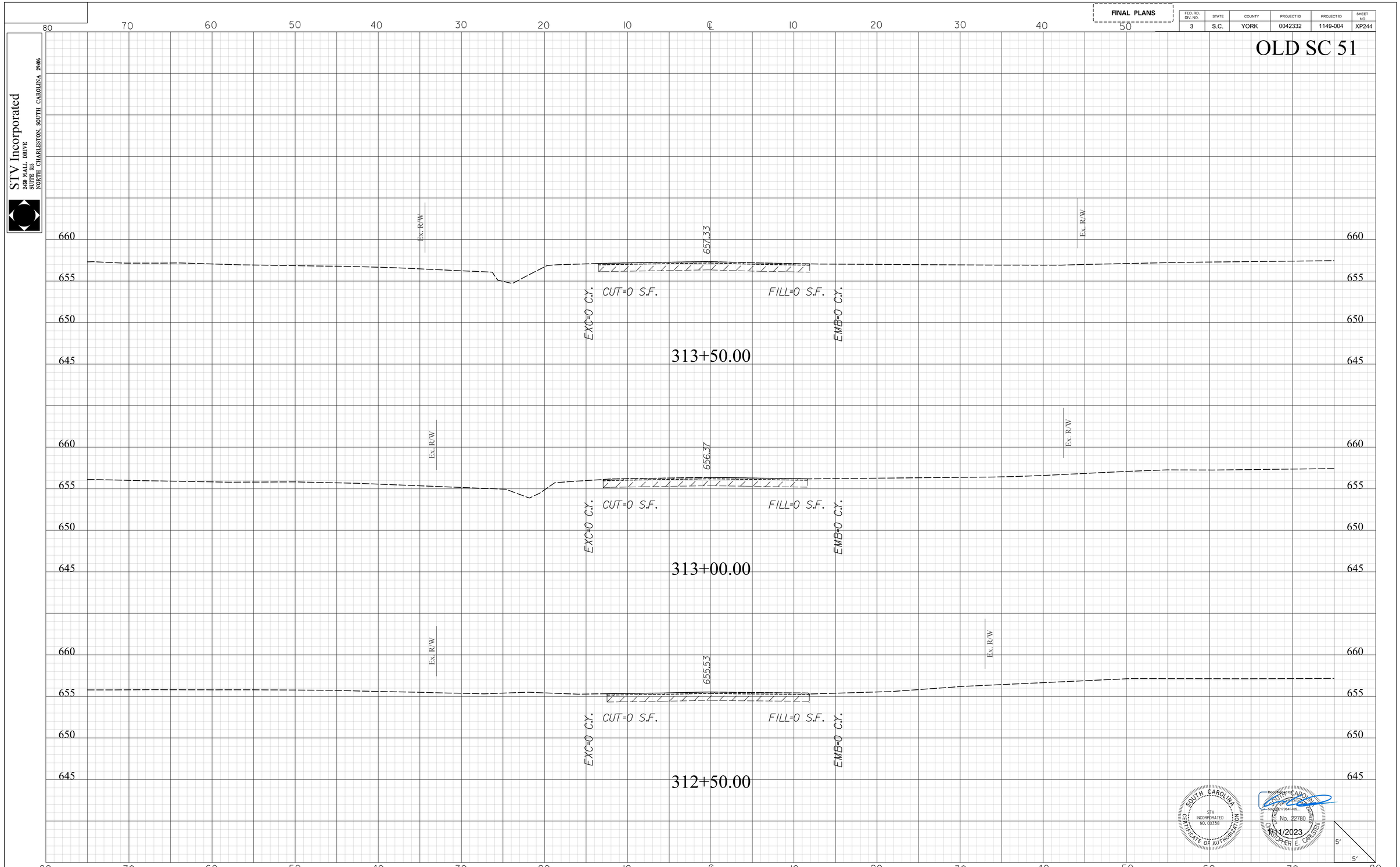
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP244

OLD SC 51

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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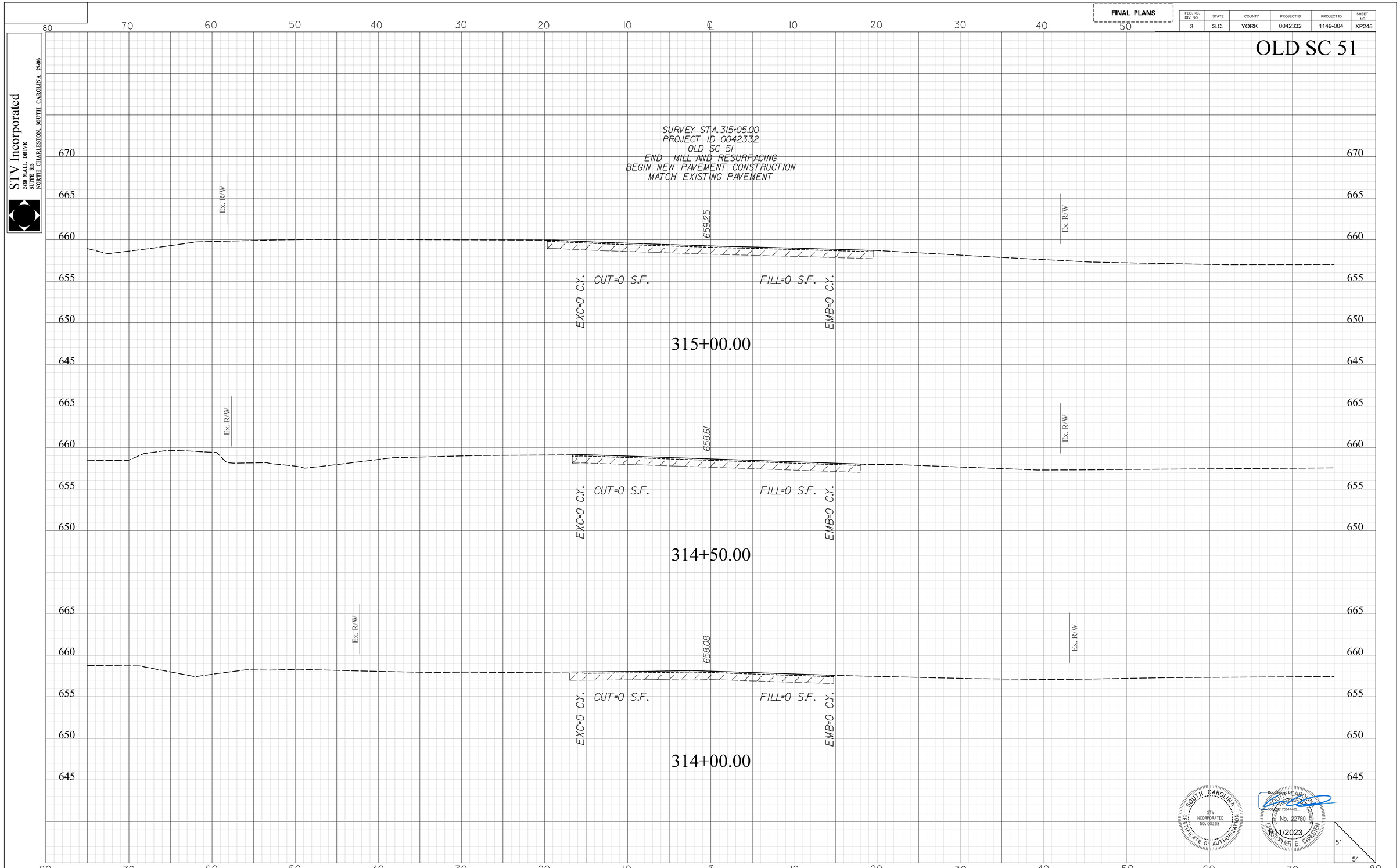
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP245

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

OLD SC 51



SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 11/11/2023 CHRISTOPHER E. CARLSTEN

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1/10/2023

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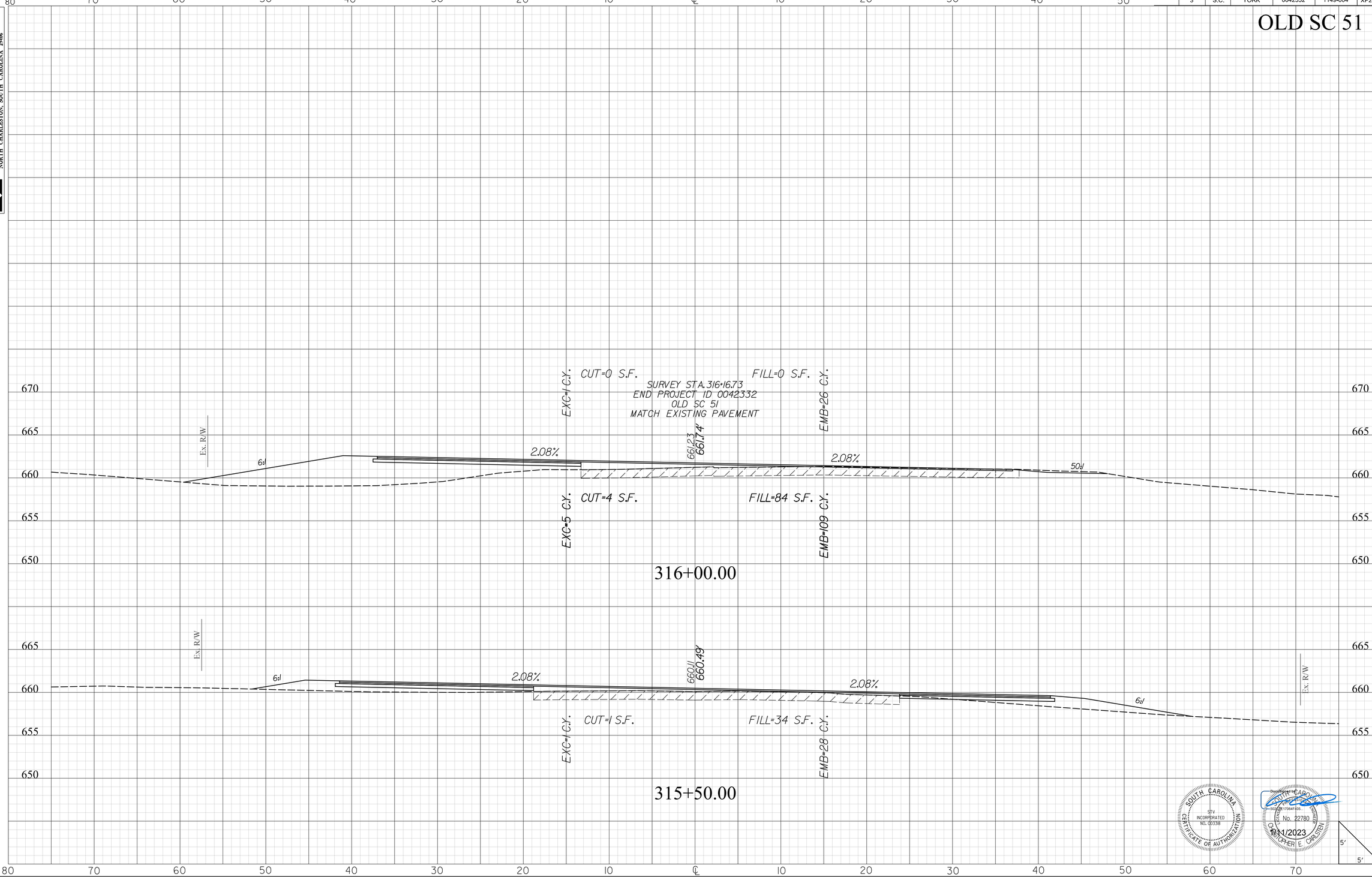
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP246

OLD SC 51

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
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No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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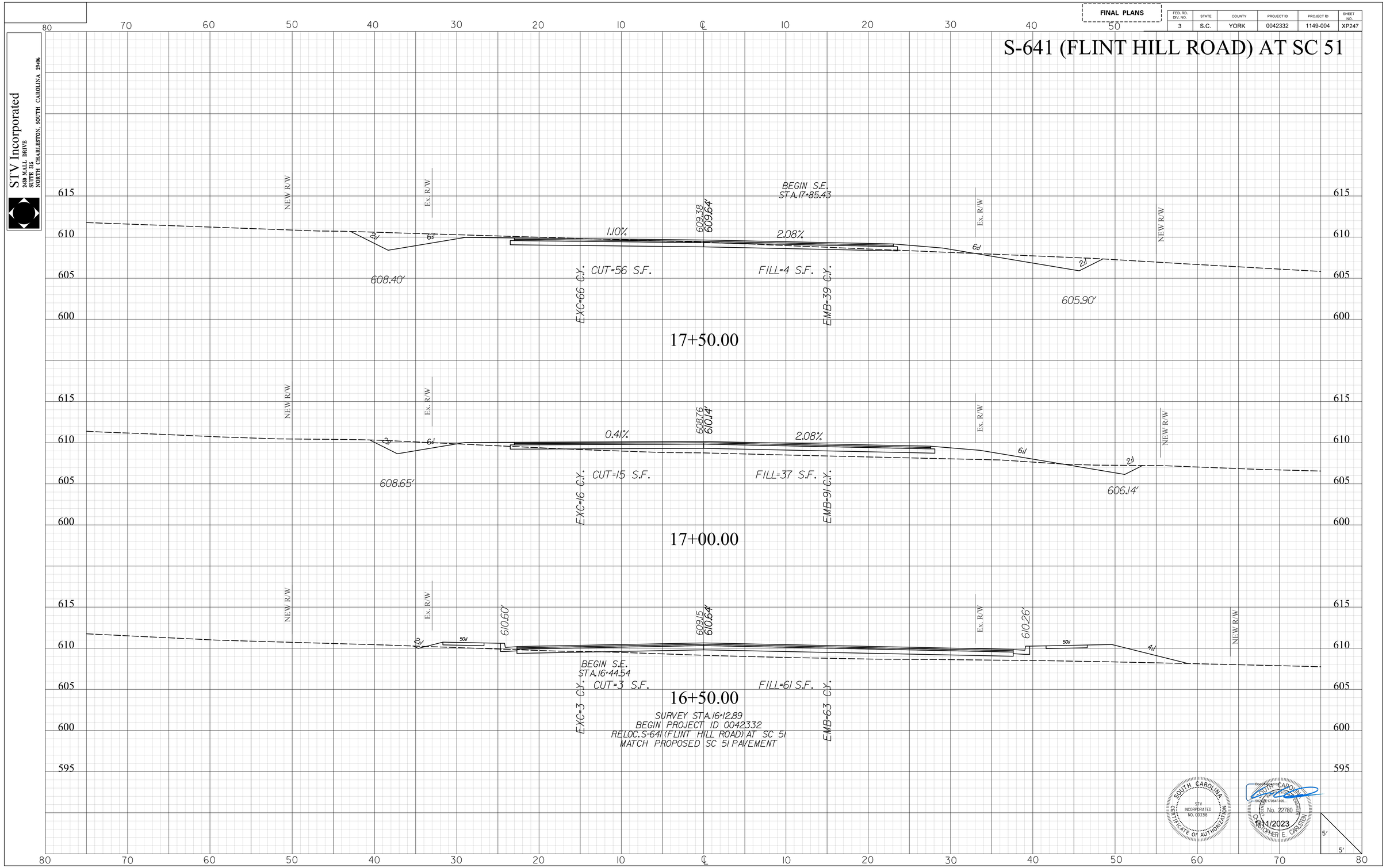
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP247

S-641 (FLINT HILL ROAD) AT SC 51



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

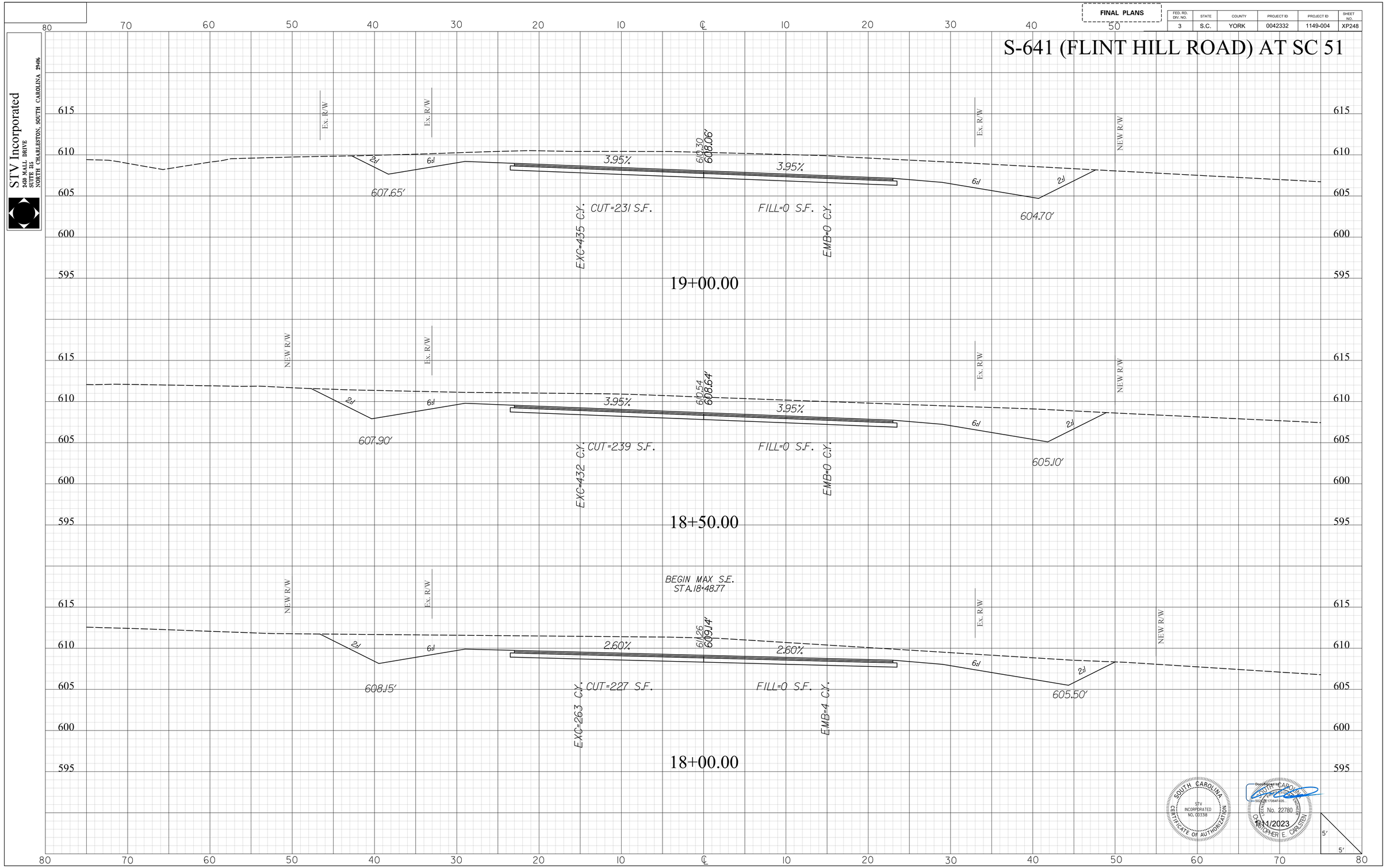
20XS.DGN

DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP248

S-641 (FLINT HILL ROAD) AT SC 51



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. 00338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 1/11/2023 CHRISTOPHER E. CARLSTEN

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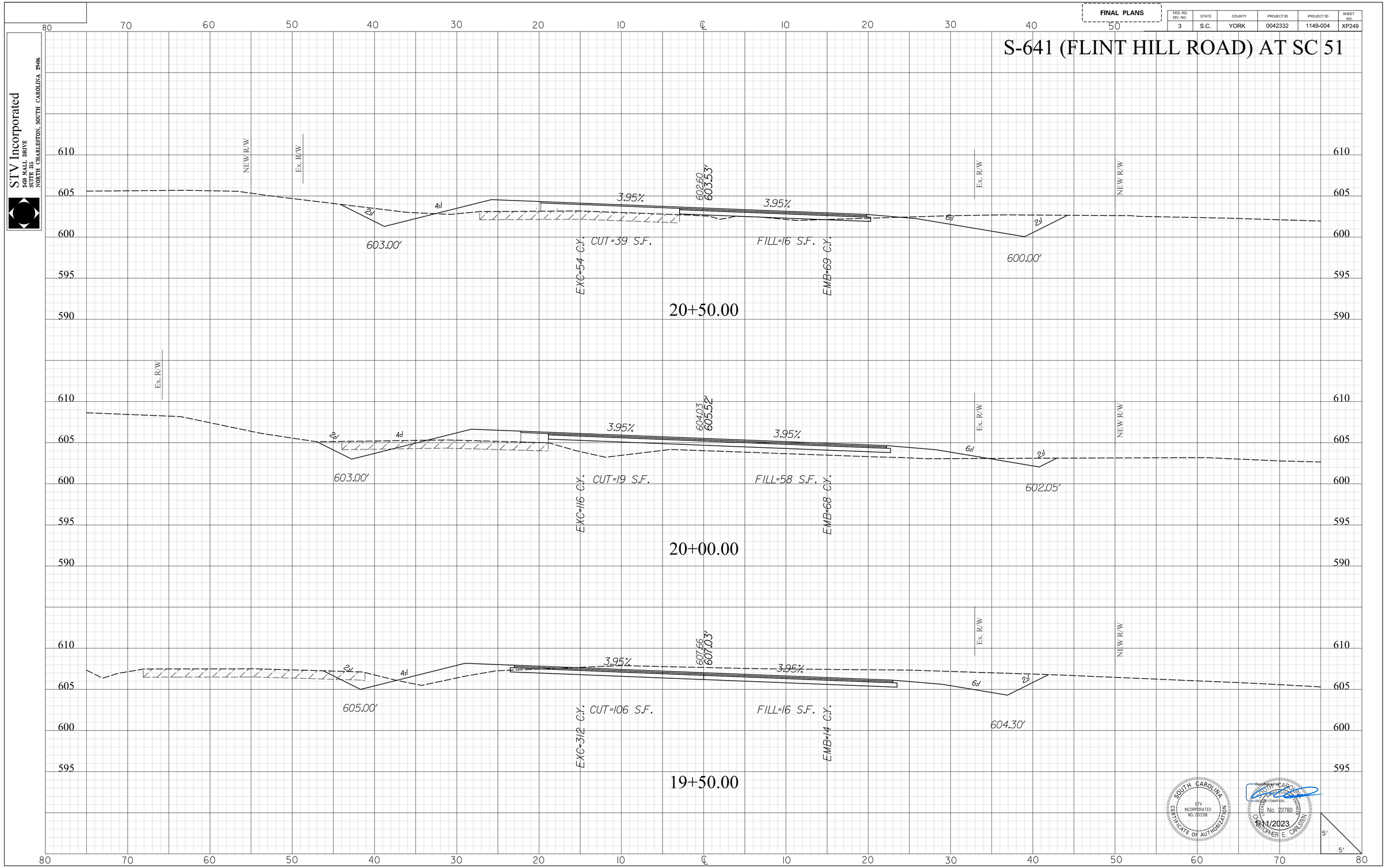
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP249

S-641 (FLINT HILL ROAD) AT SC 51

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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1/10/2023

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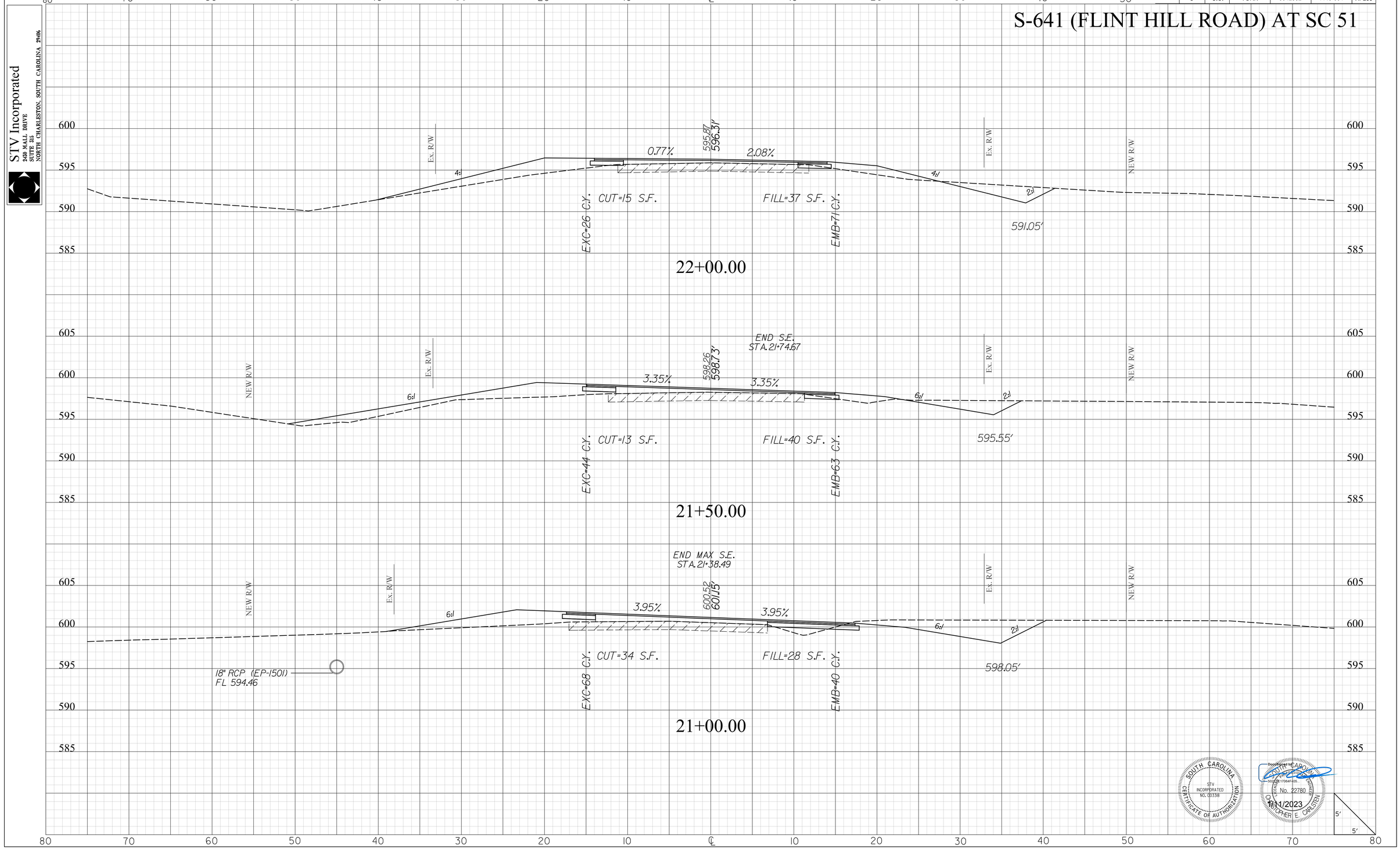
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP250

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-641 (FLINT HILL ROAD) AT SC 51



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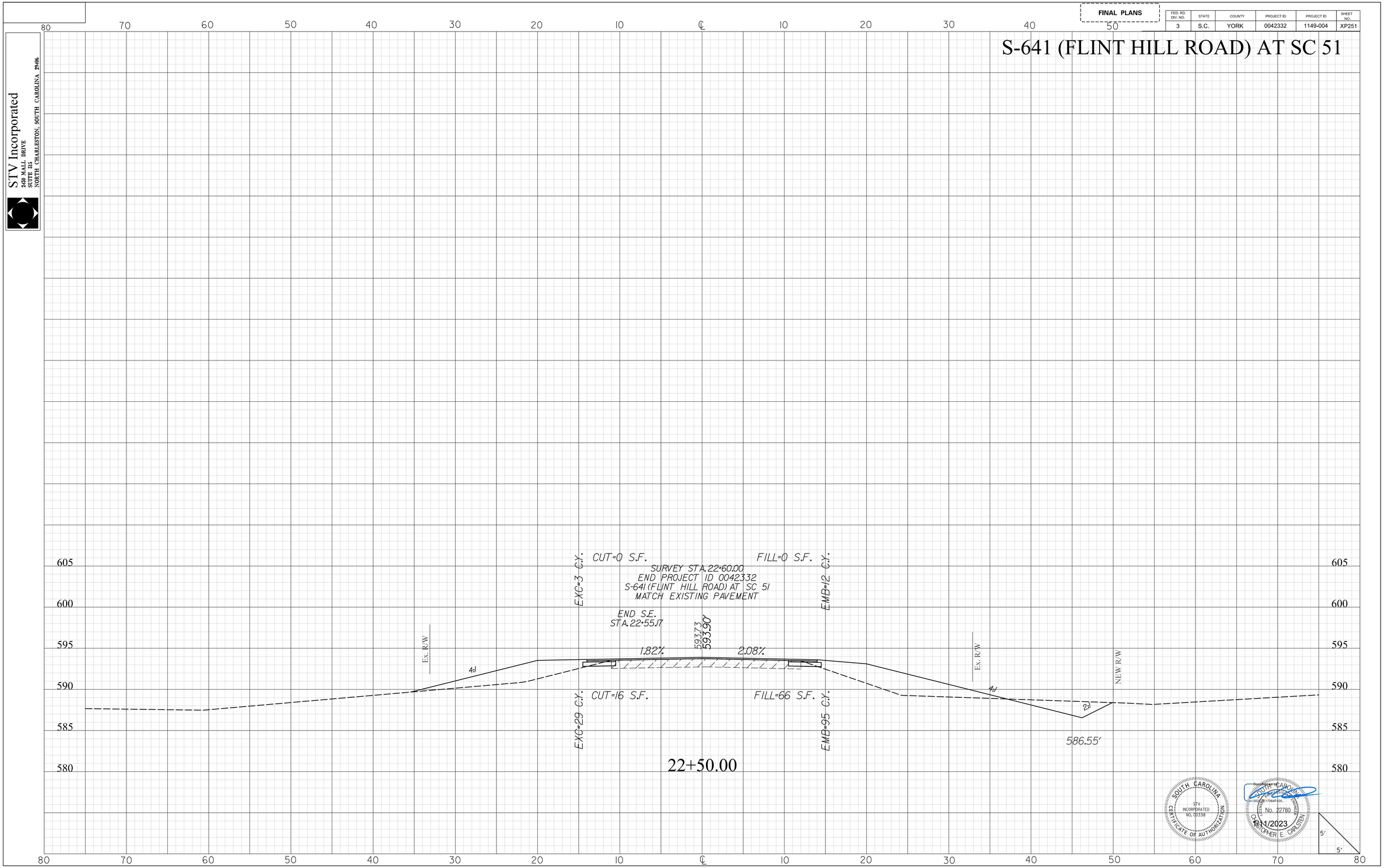
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP251

S-641 (FLINT HILL ROAD) AT SC 51



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. 00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

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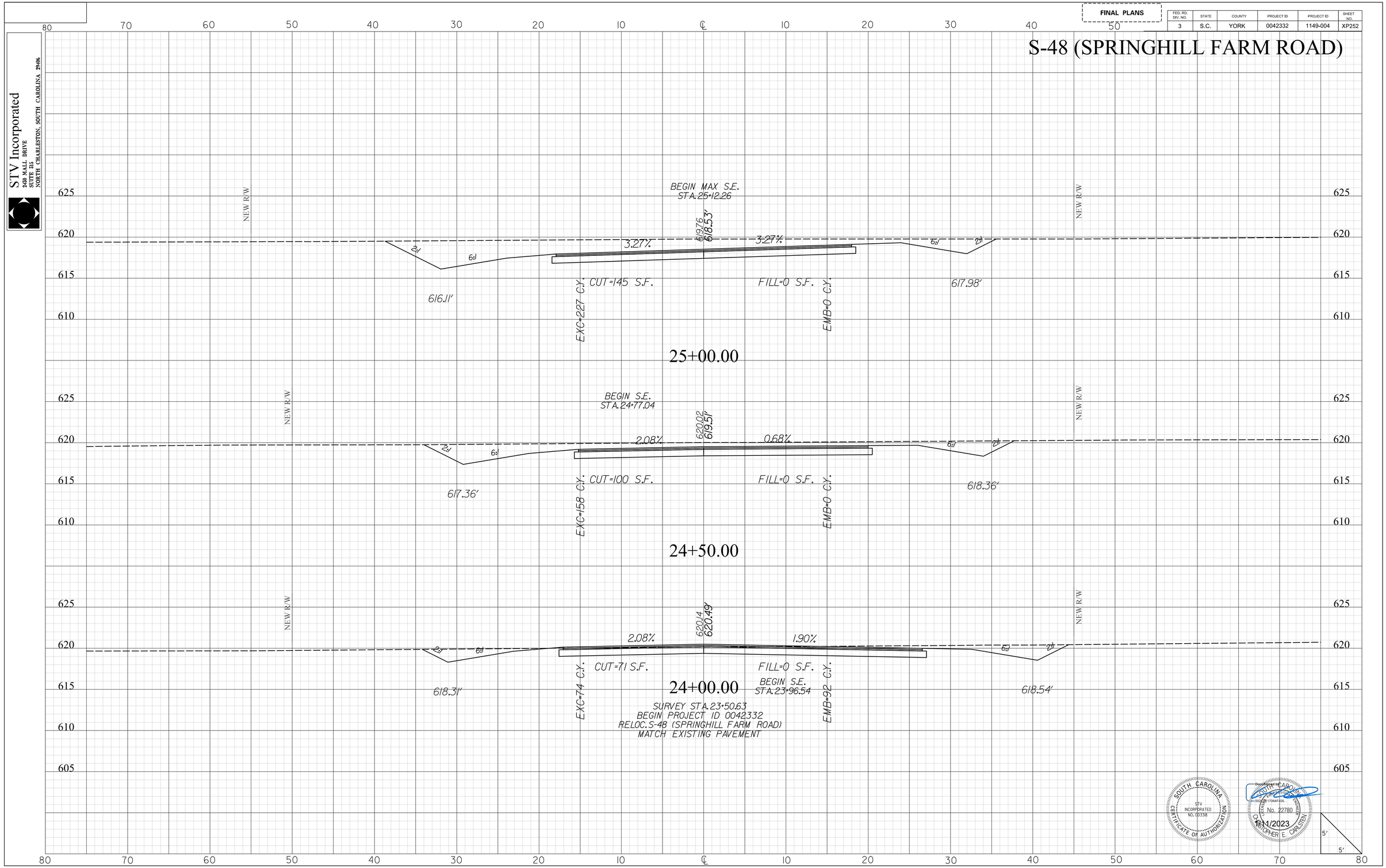
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP252

S-48 (SPRINGHILL FARM ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. 00338 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

20XS.DGN

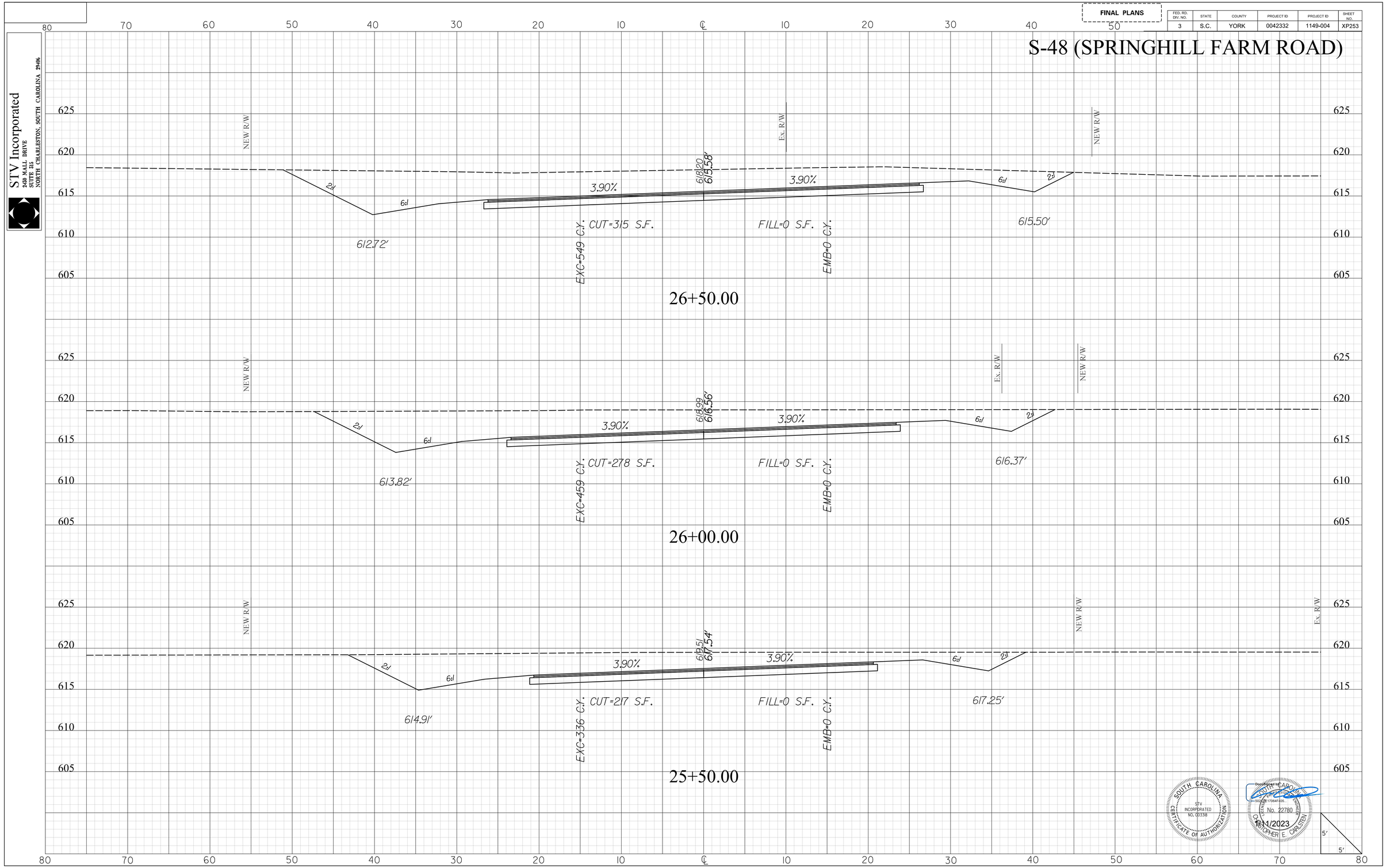
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP253

S-48 (SPRINGHILL FARM ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

20XS.DGN

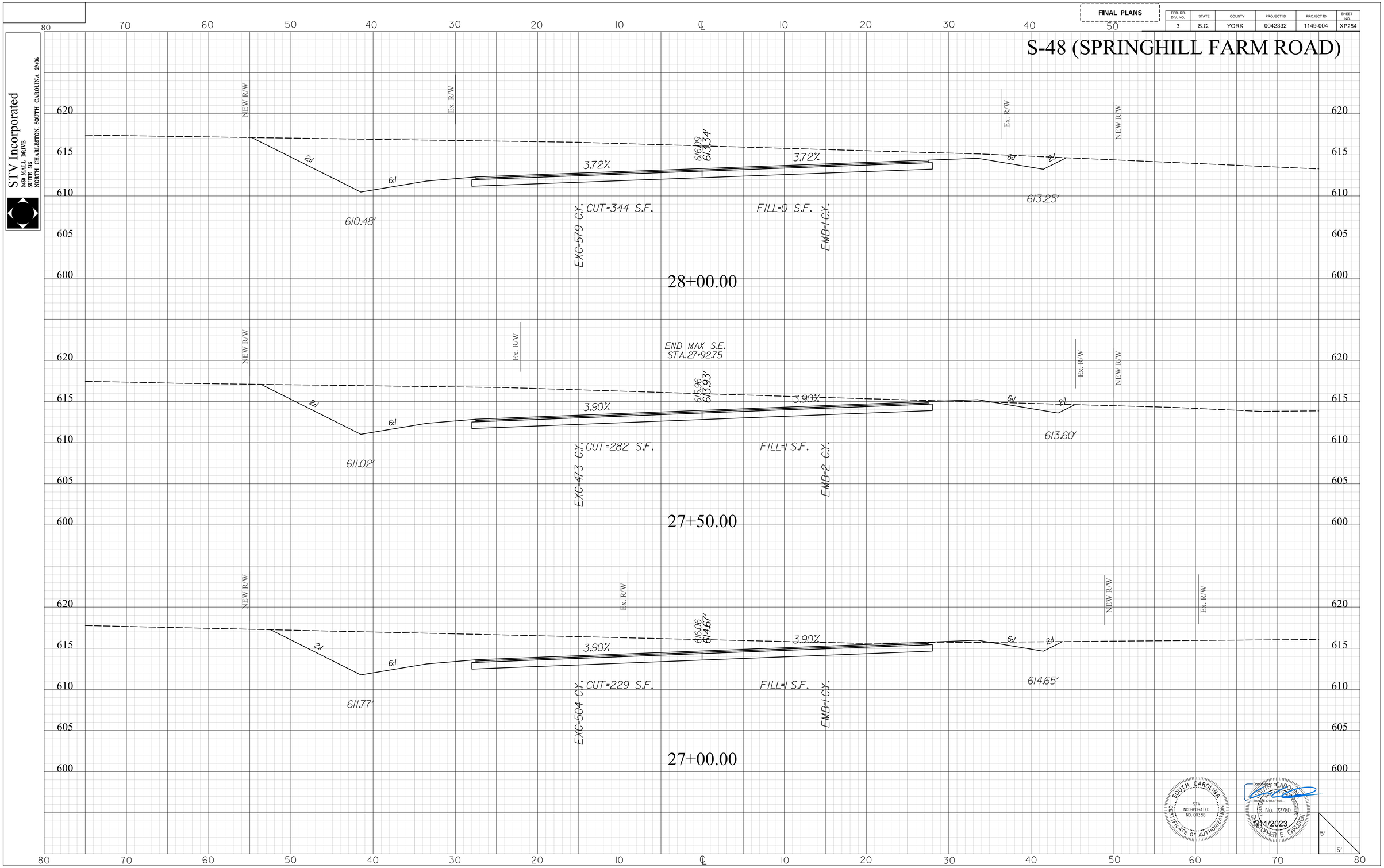
DocuSign Envelope ID: E650BA56-DA27-4920-BD98-364F8A4D7BB2

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP254

S-48 (SPRINGHILL FARM ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Docusigned by: CHRISTOPHER E. CARLTON
SOUTH CAROLINA
No. 22780
1/11/2023

masflitg
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1/10/2023

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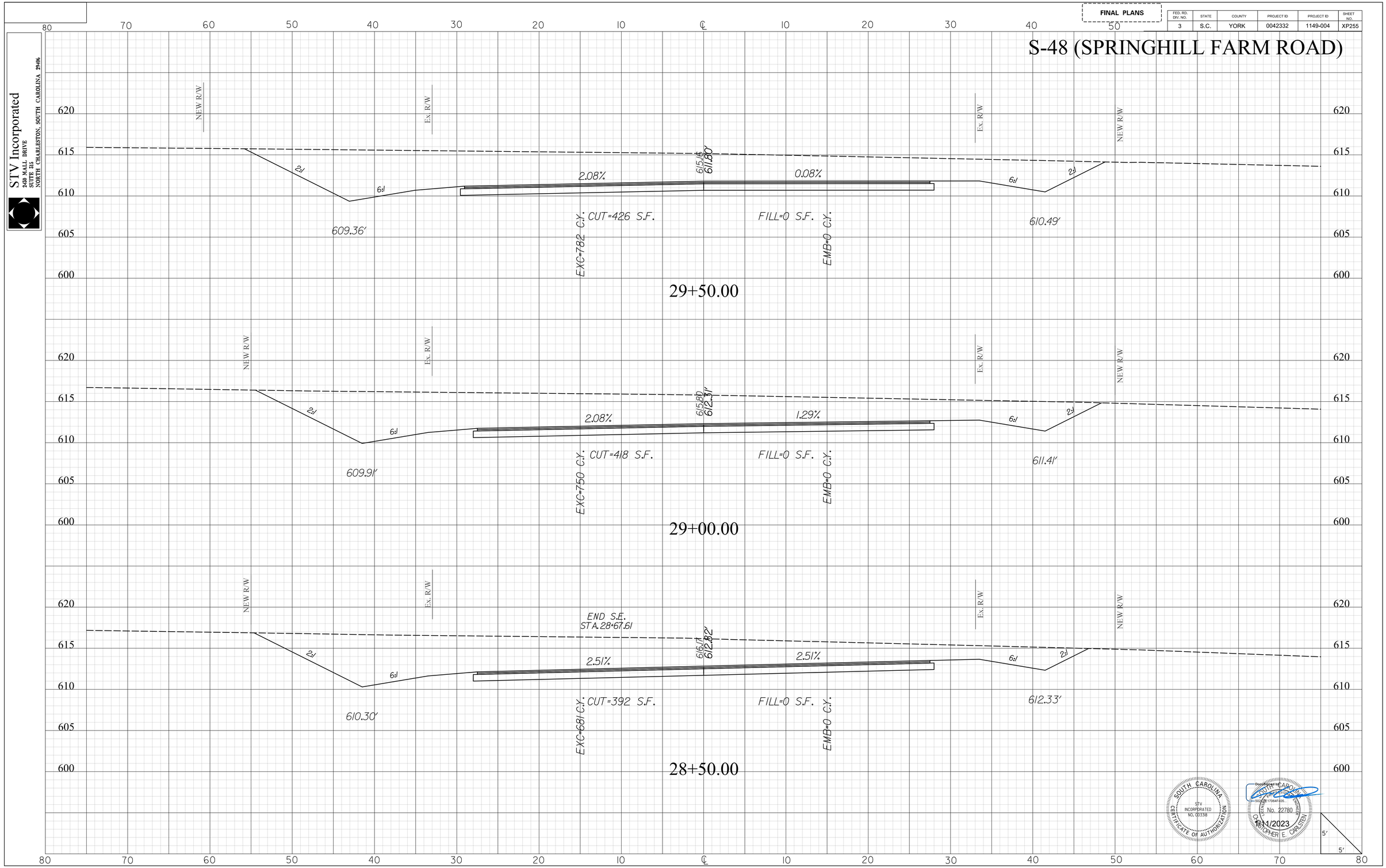
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP255

S-48 (SPRINGHILL FARM ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN
1/11/2023

20XS.DGN

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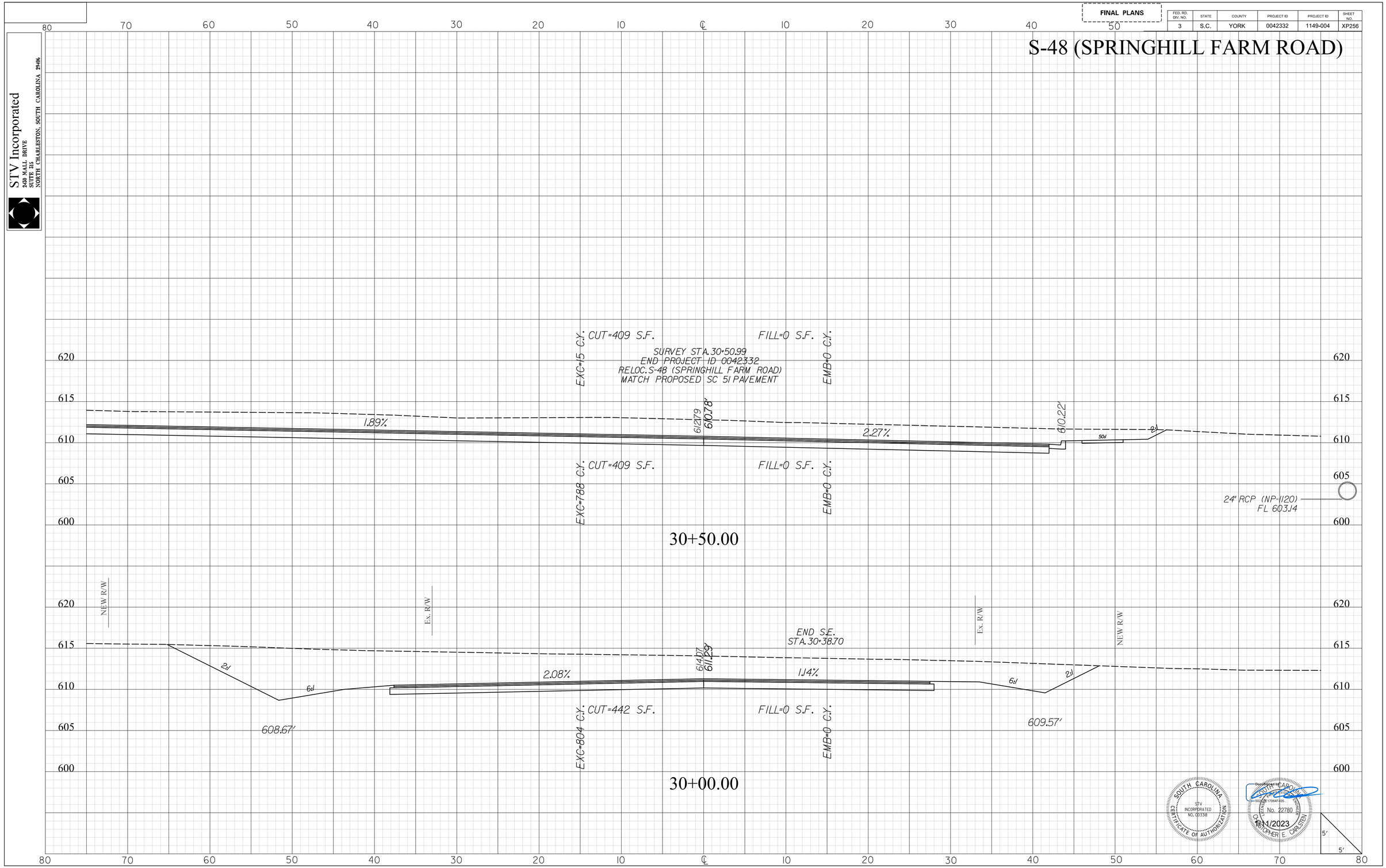
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP256

S-48 (SPRINGHILL FARM ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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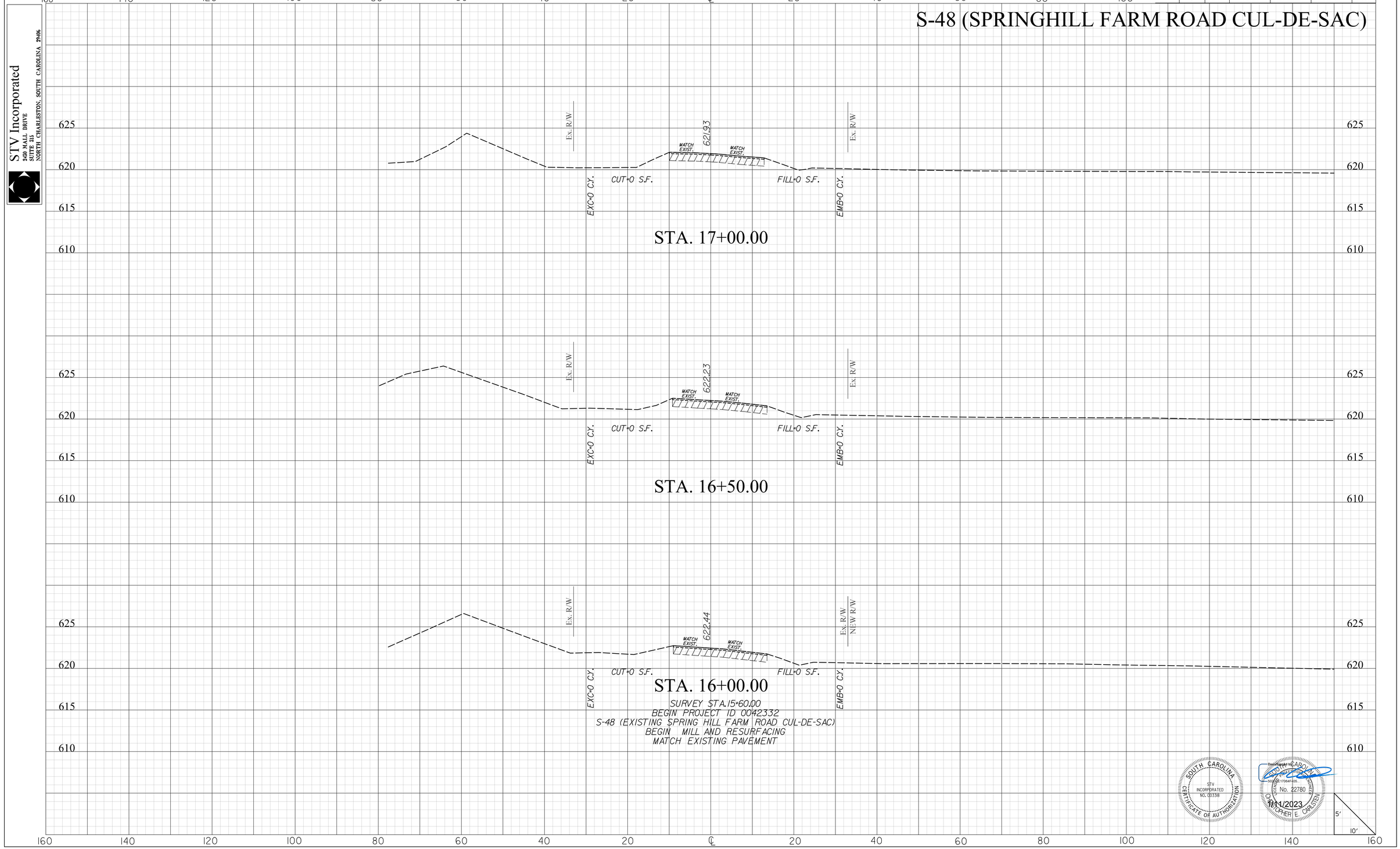
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X257

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)



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1/10/2023

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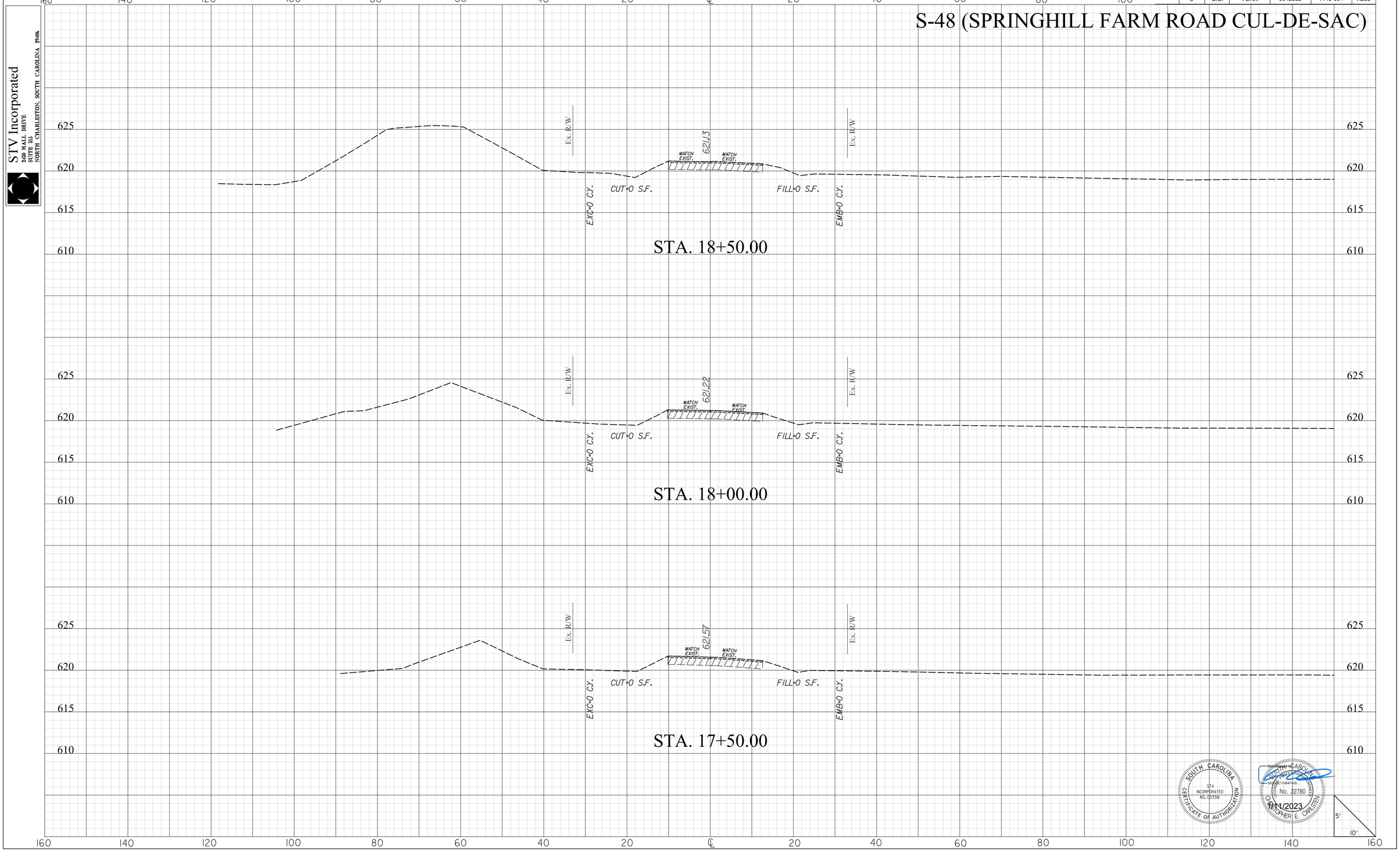
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X258

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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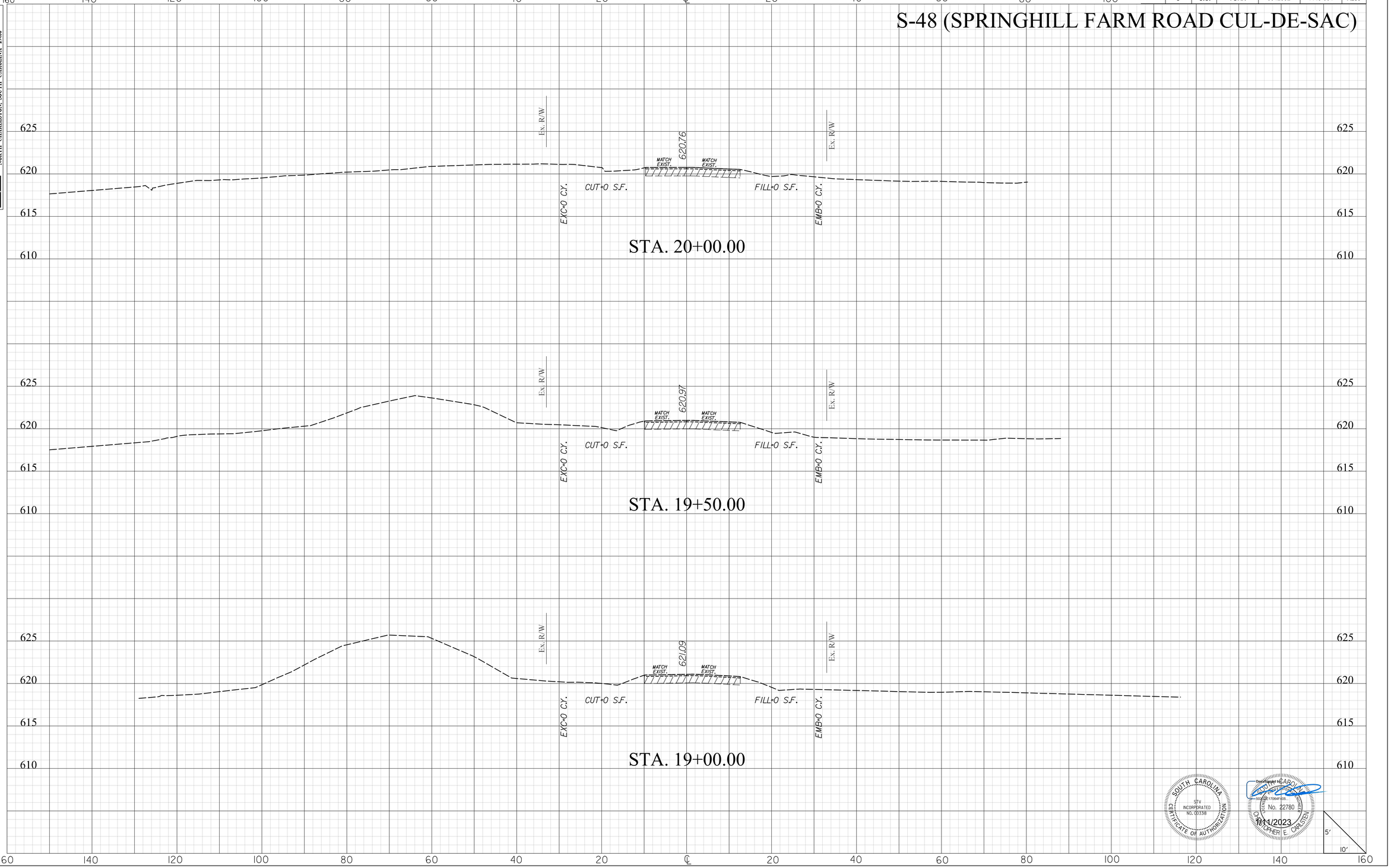
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X259

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
11/1/2023
CHRISTOPHER E. CARLSTEN

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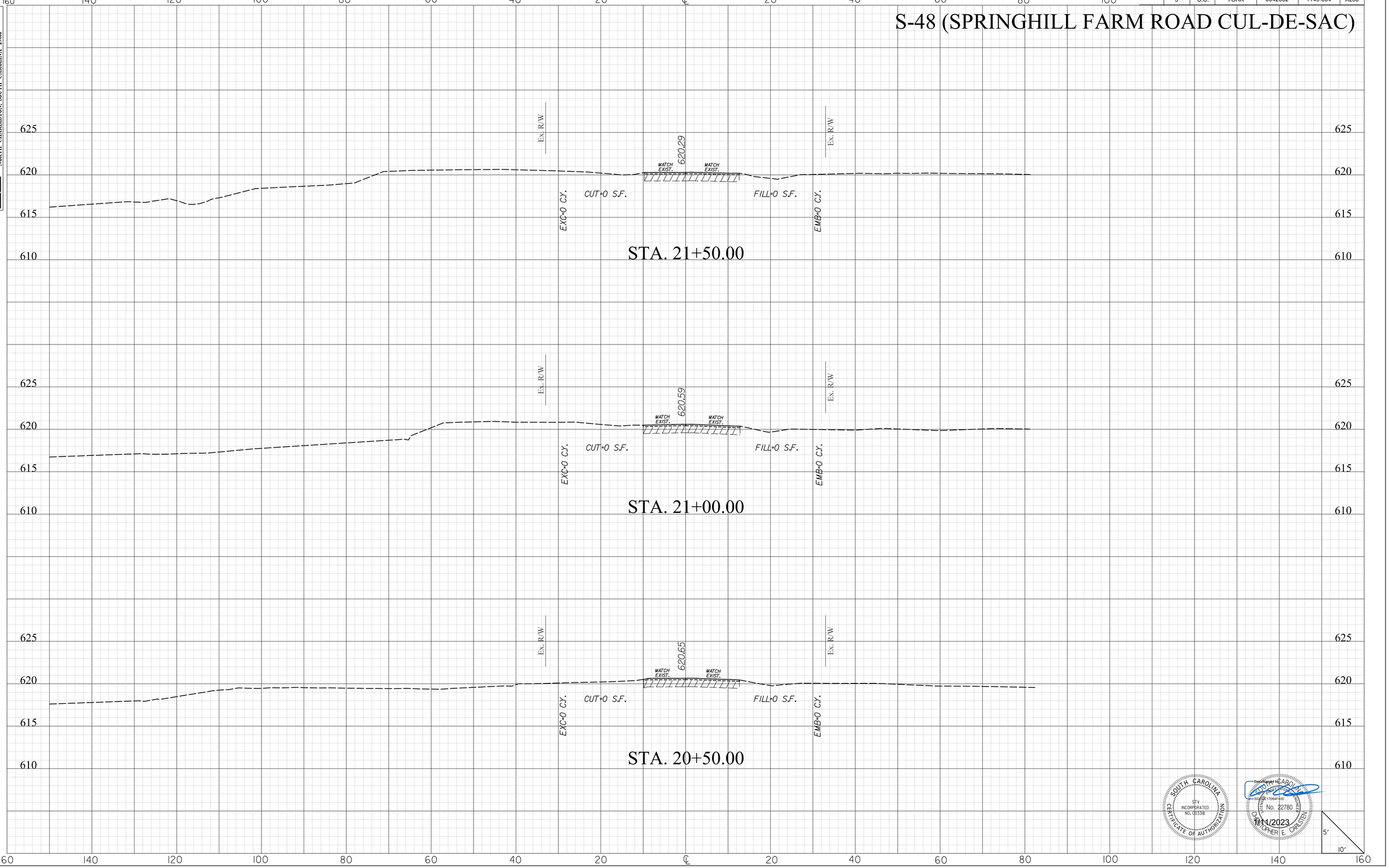
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X260

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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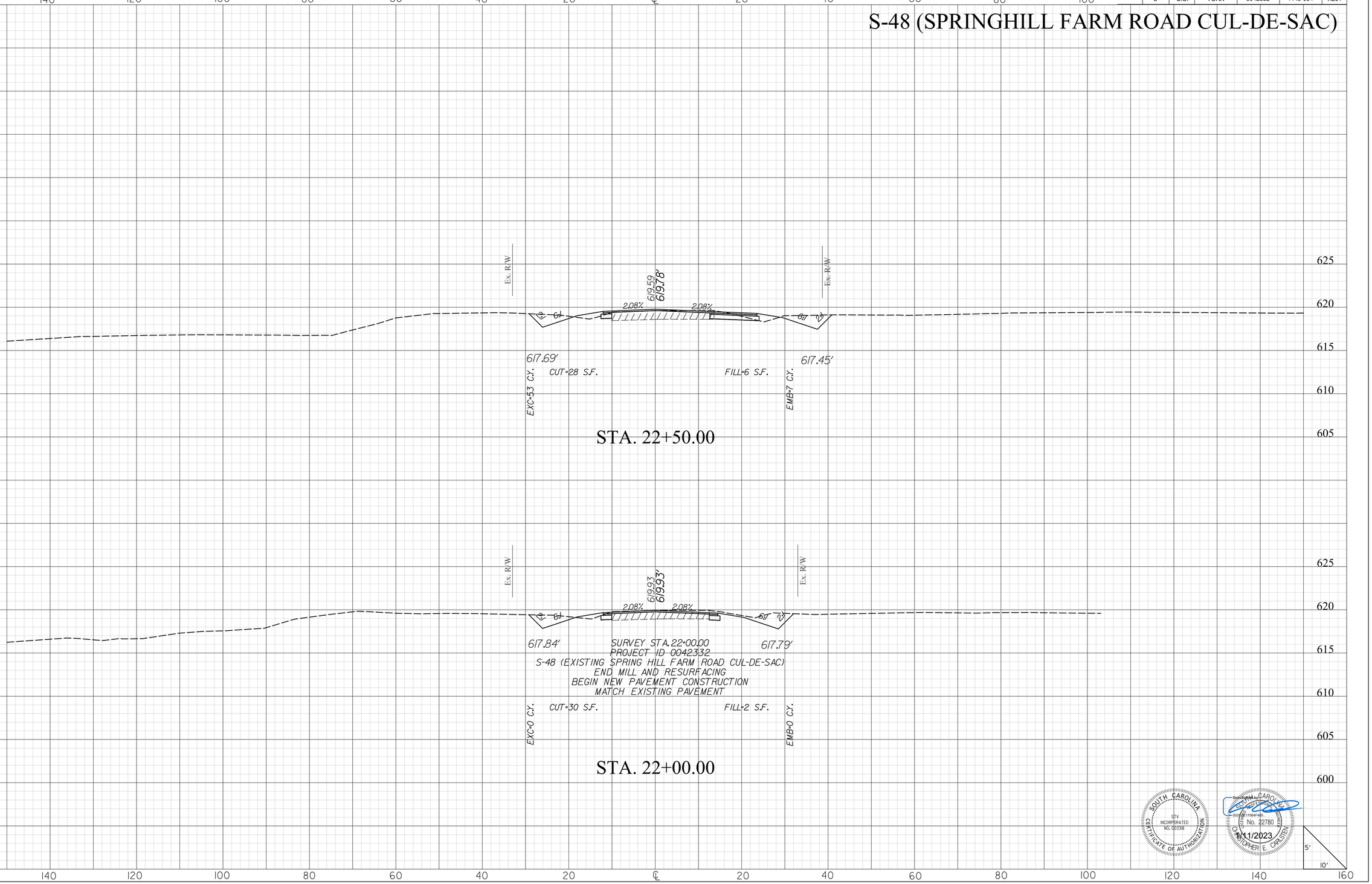
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X261

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)



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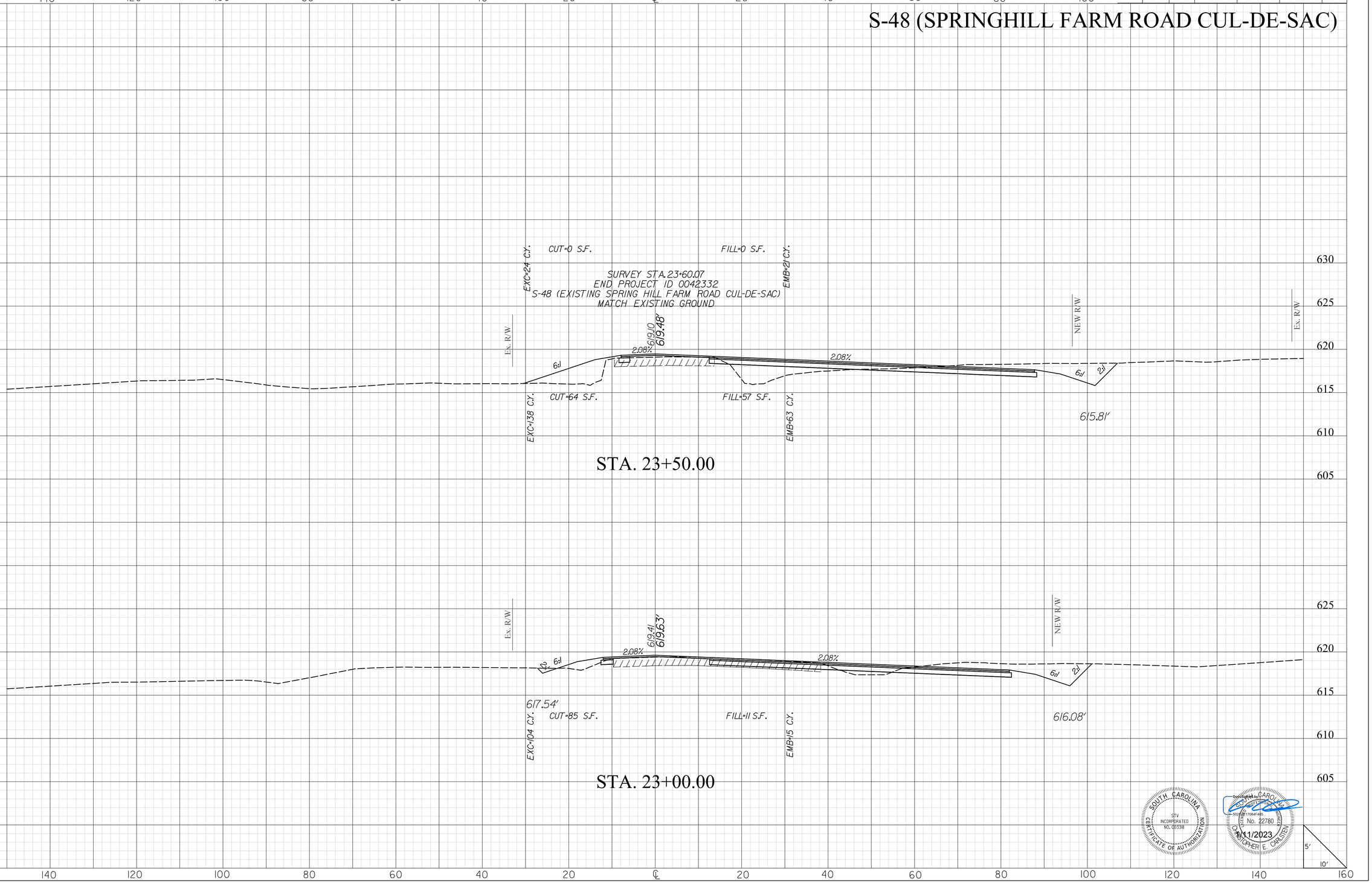
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	X262

S-48 (SPRINGHILL FARM ROAD CUL-DE-SAC)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C03318

Registered Professional Engineer
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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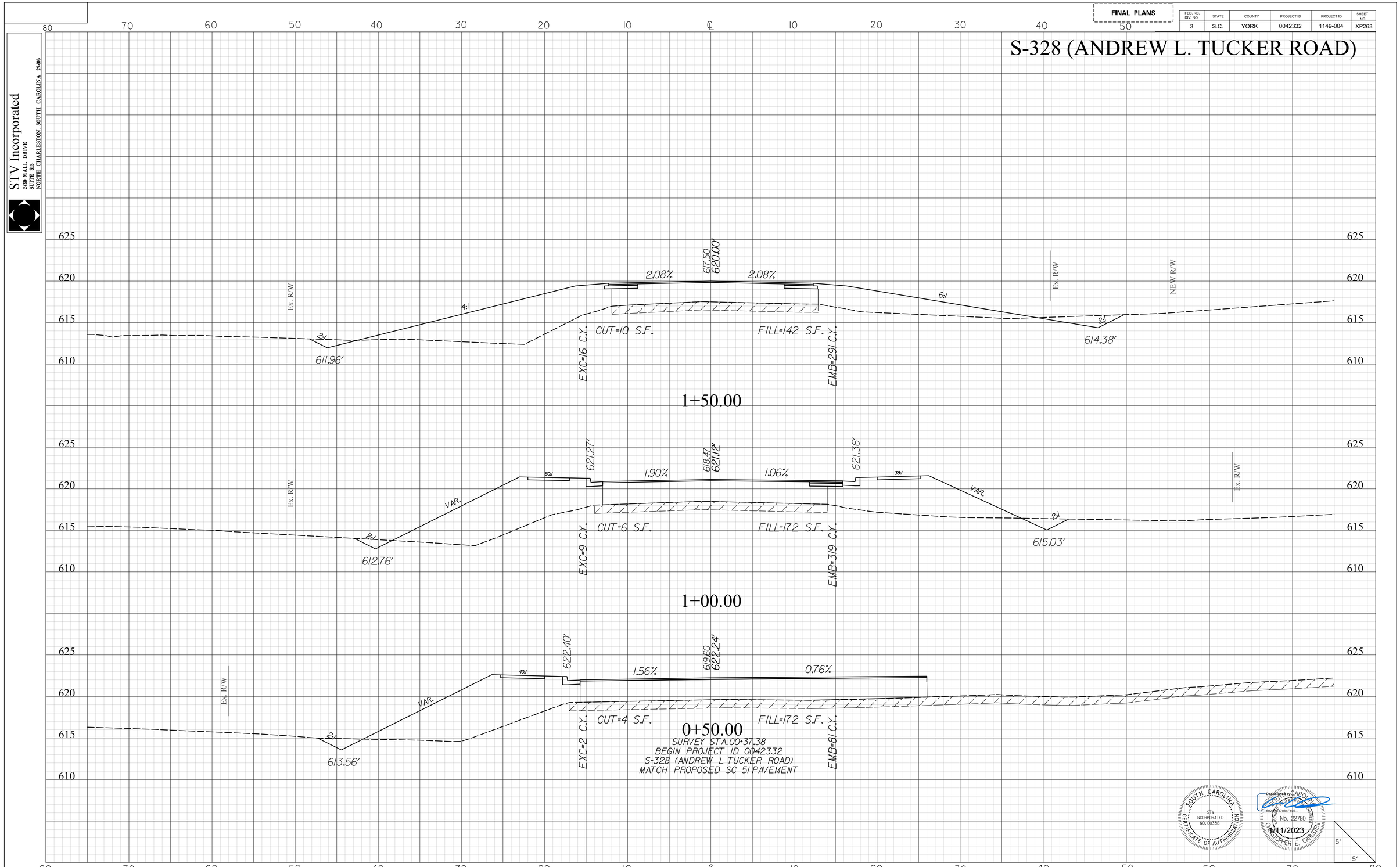
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP263

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-328 (ANDREW L. TUCKER ROAD)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CARLSTEN, CHRISTOPHER E.
DN: c=US, o=STV INCORPORATED, cn=CARLSTEN, CHRISTOPHER E.
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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1/10/2023

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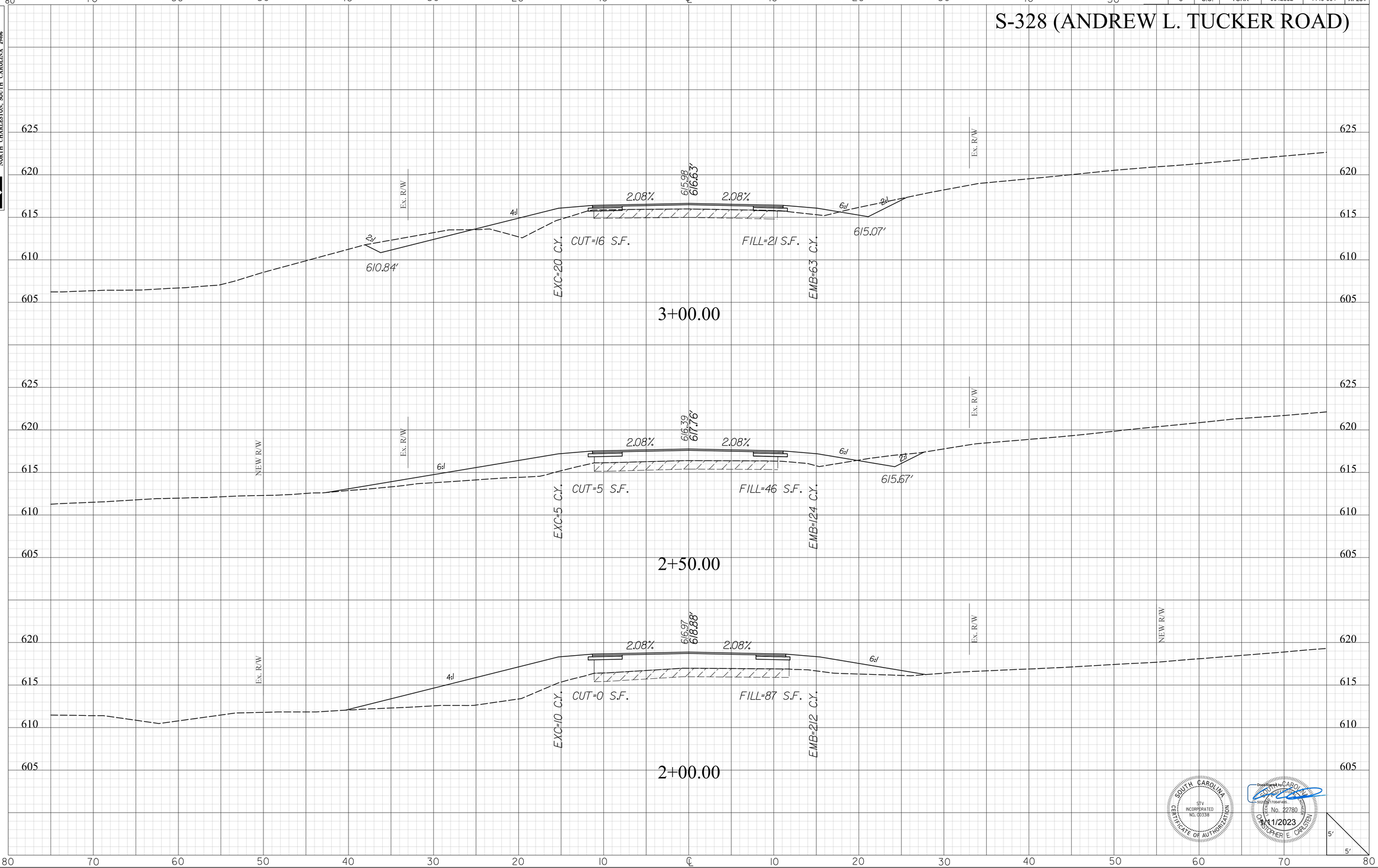
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP264

S-328 (ANDREW L. TUCKER ROAD)

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CARLSTEN
DN: c=US, o=Government, ou=Agency, ou=Engineering, cn=CARLSTEN
Date: 2023.01.11 17:06:47-05'00'
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

5'
5'

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1/10/2023

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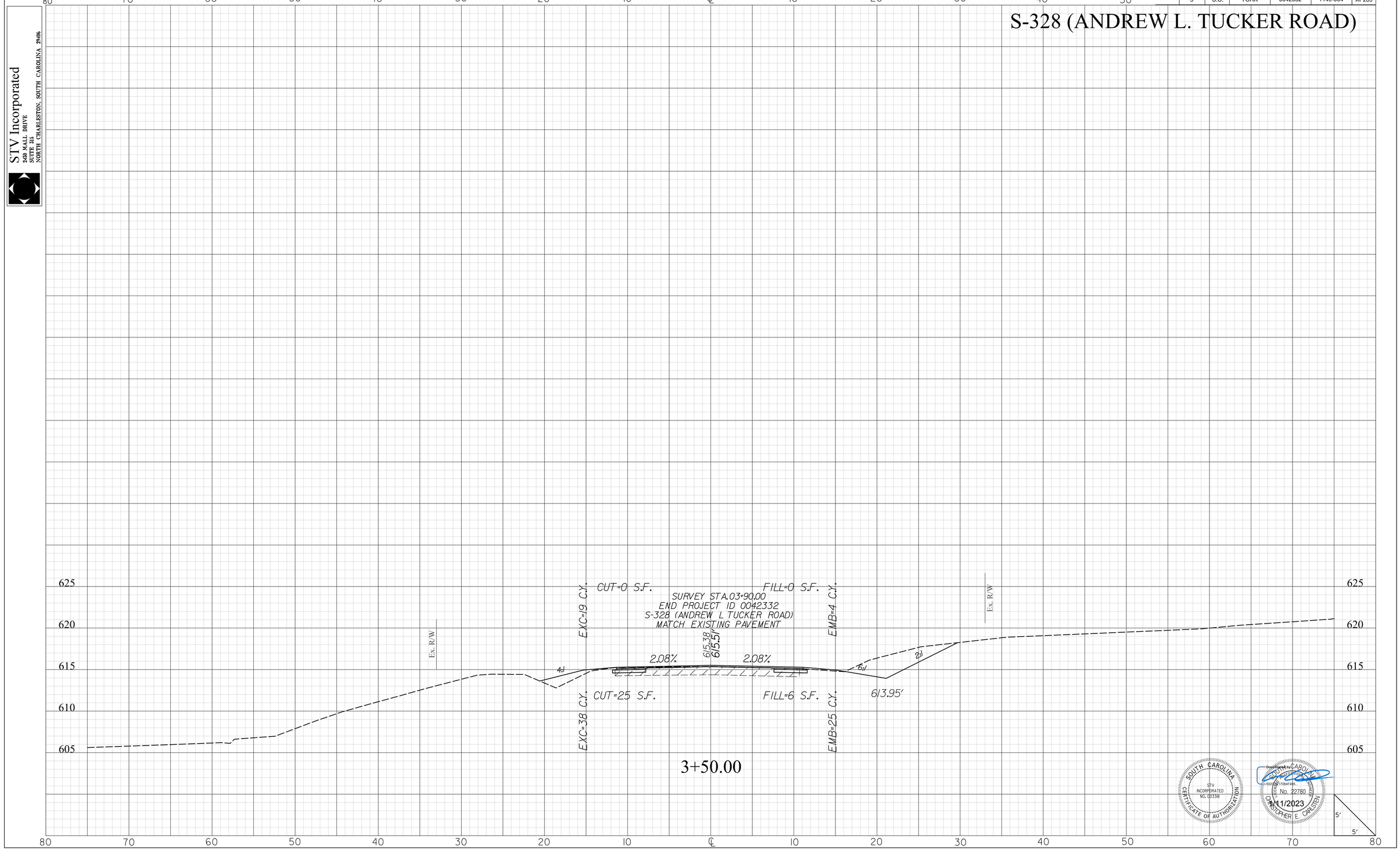
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP265

S-328 (ANDREW L. TUCKER ROAD)



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

SOUTH CAROLINA
STV INCORPORATED
NO. 00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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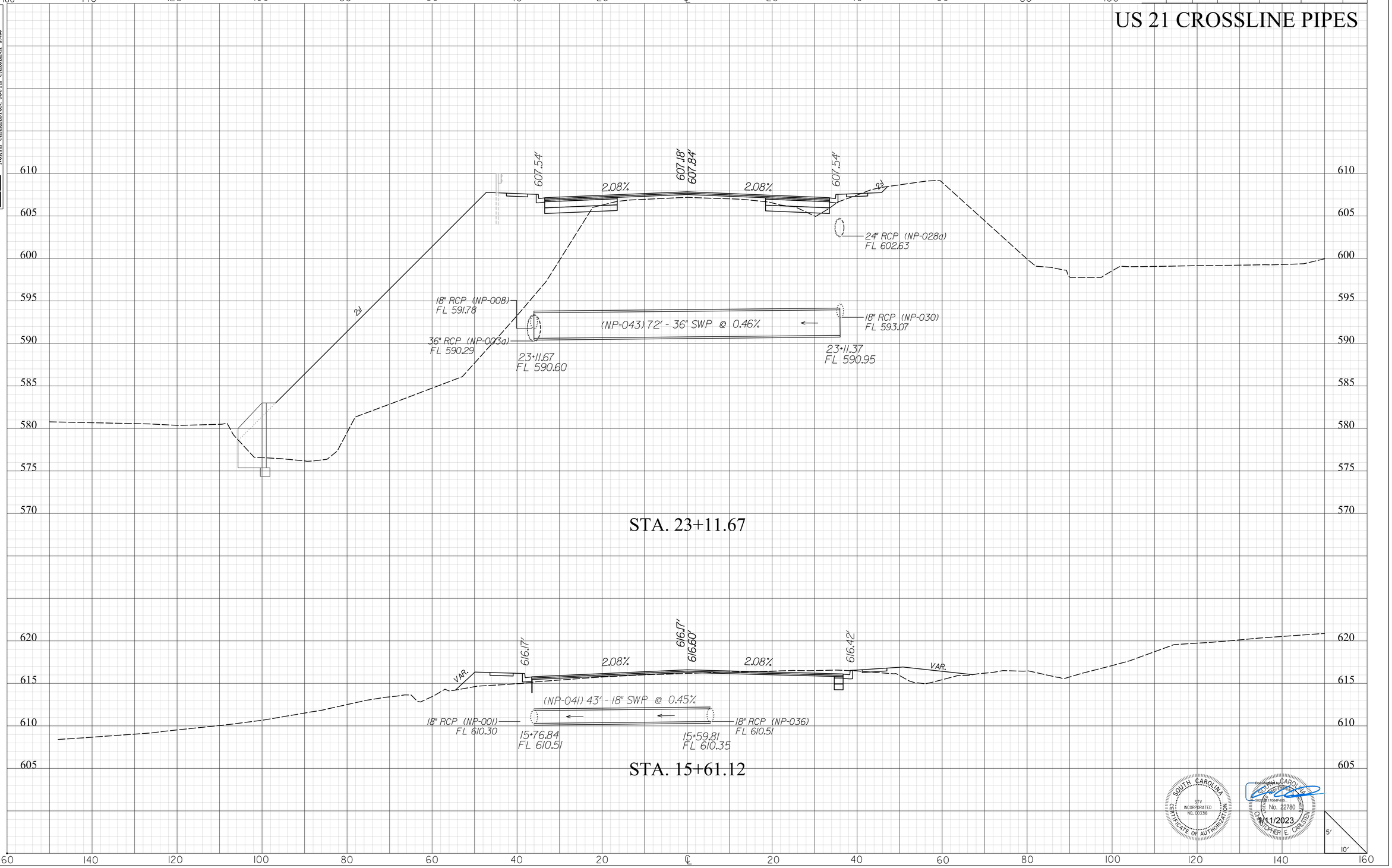
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP1

US 21 CROSSLINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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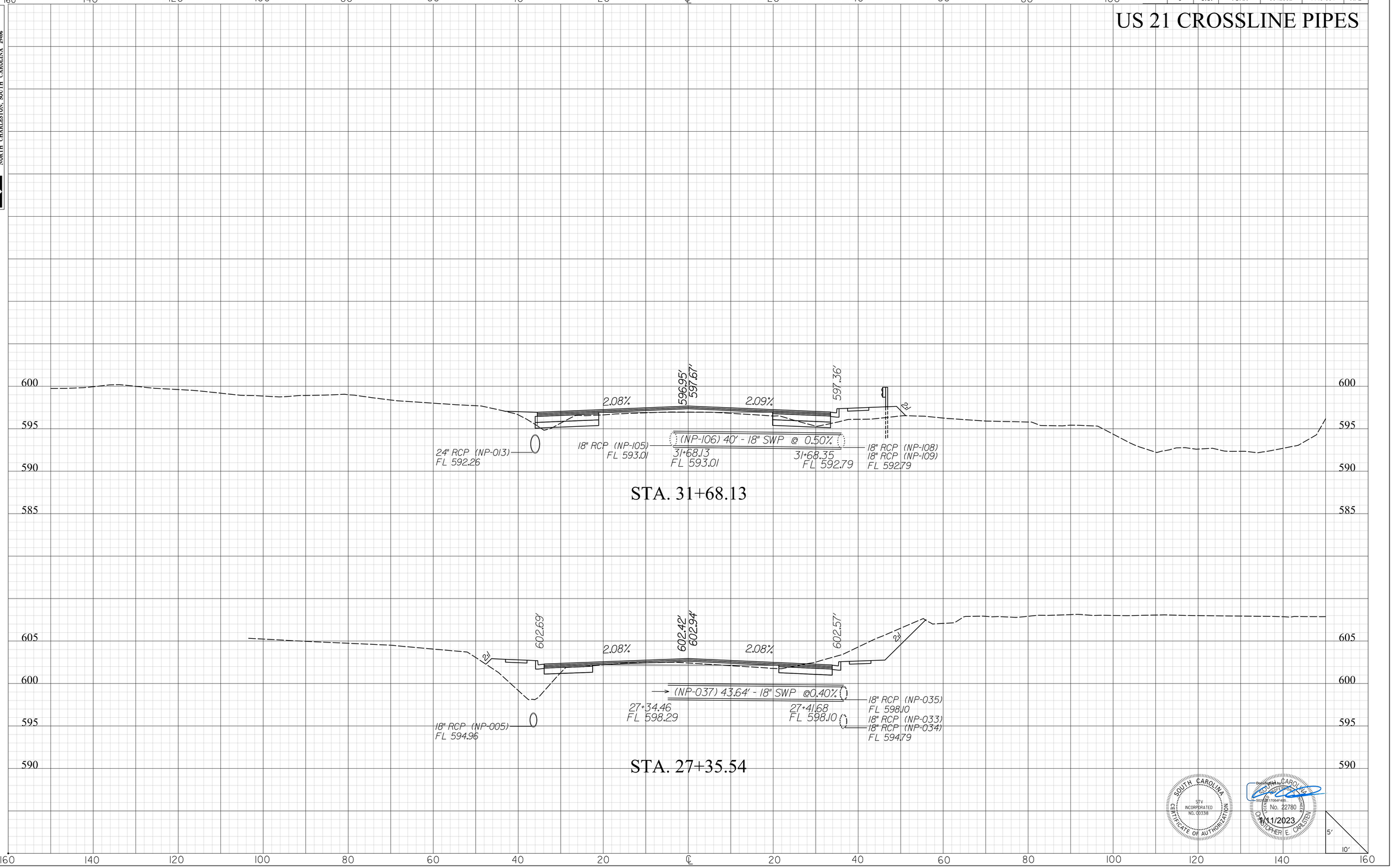
FINAL PLANS	FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
	3	S.C.	YORK	0042332	1149-004	XP2

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21 CROSSLINE PIPES



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Registered Professional Engineer
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
1/11/2023

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1/10/2023

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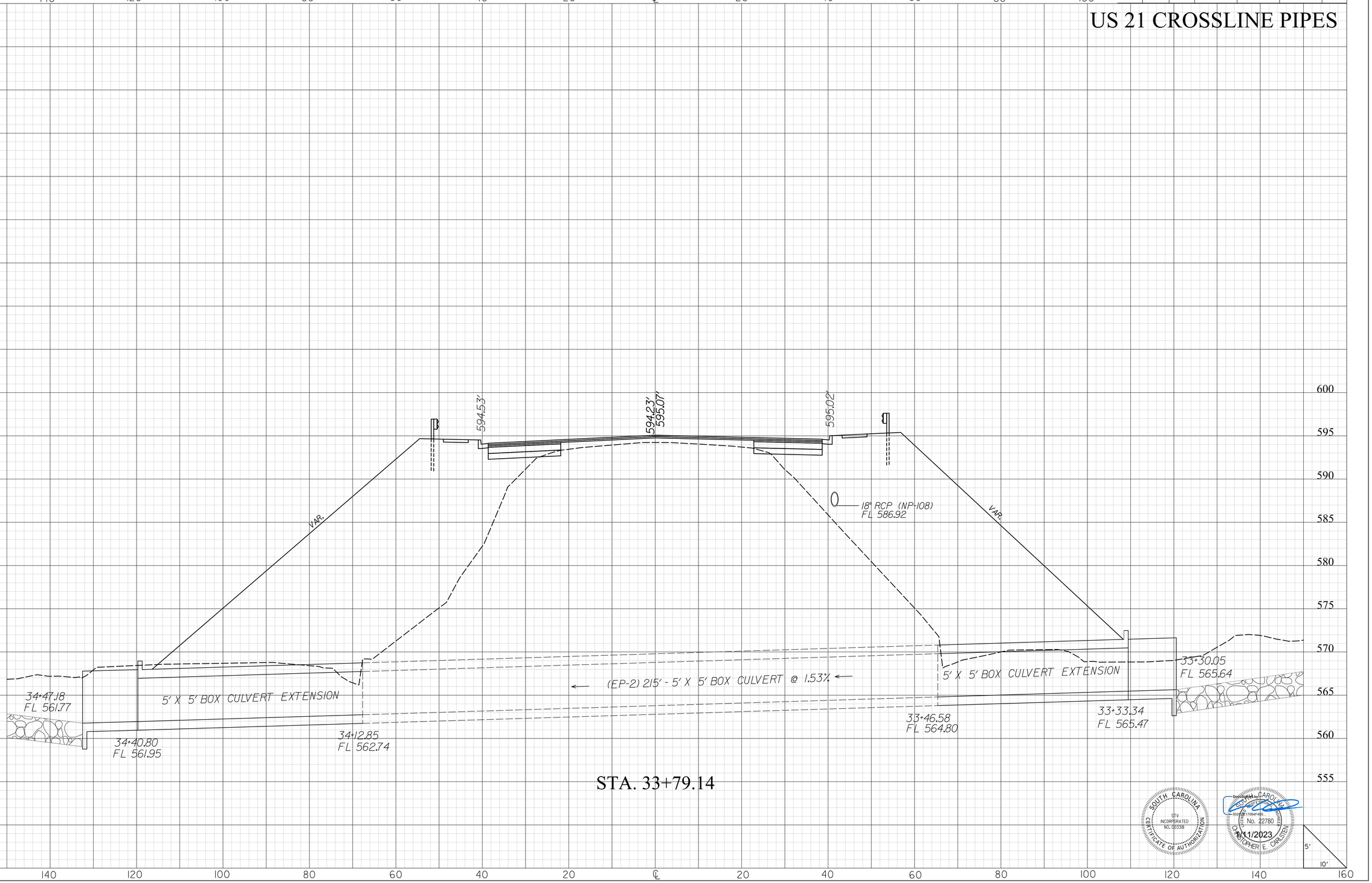
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP3

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

US 21 CROSSLINE PIPES



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C03318

Registered Professional Engineer
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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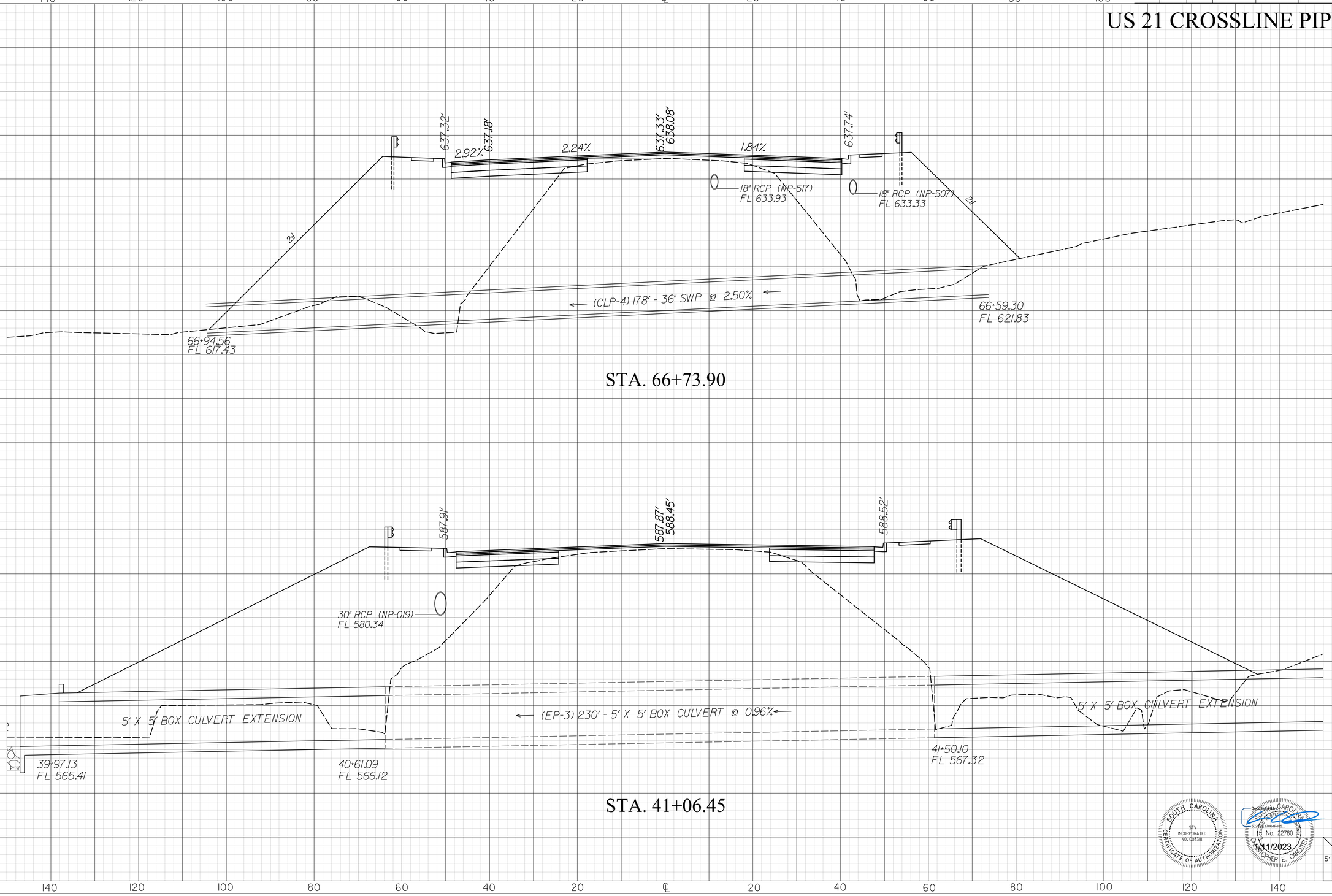
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP4

US 21 CROSSLINE PIPES



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARSTEN
No. 22780
1/11/2023

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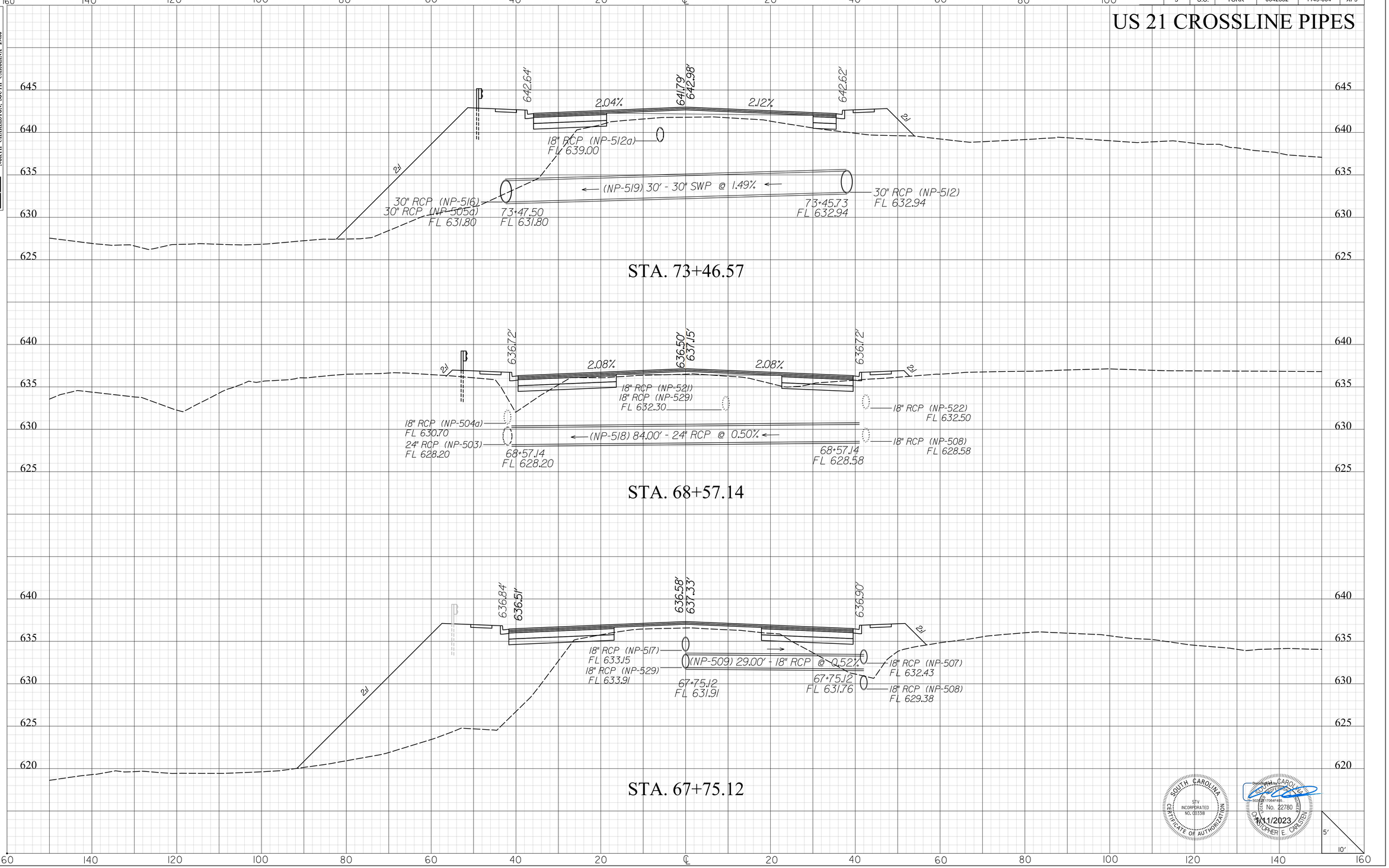
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP5

US 21 CROSSLINE PIPES



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C03338

Registered Professional Engineer
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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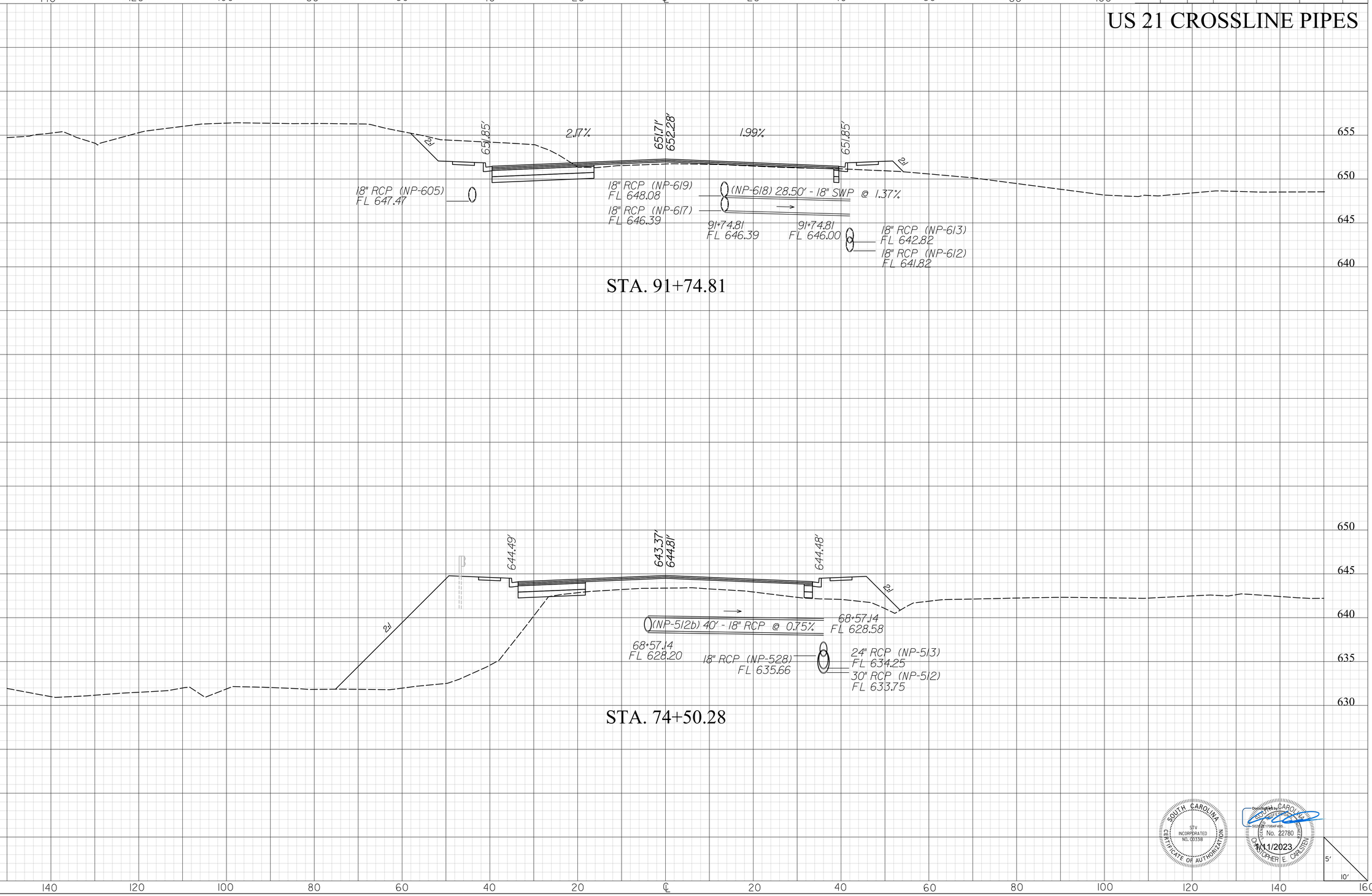
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP6

US 21 CROSSLINE PIPES



SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C00338

SOUTH CAROLINA
CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

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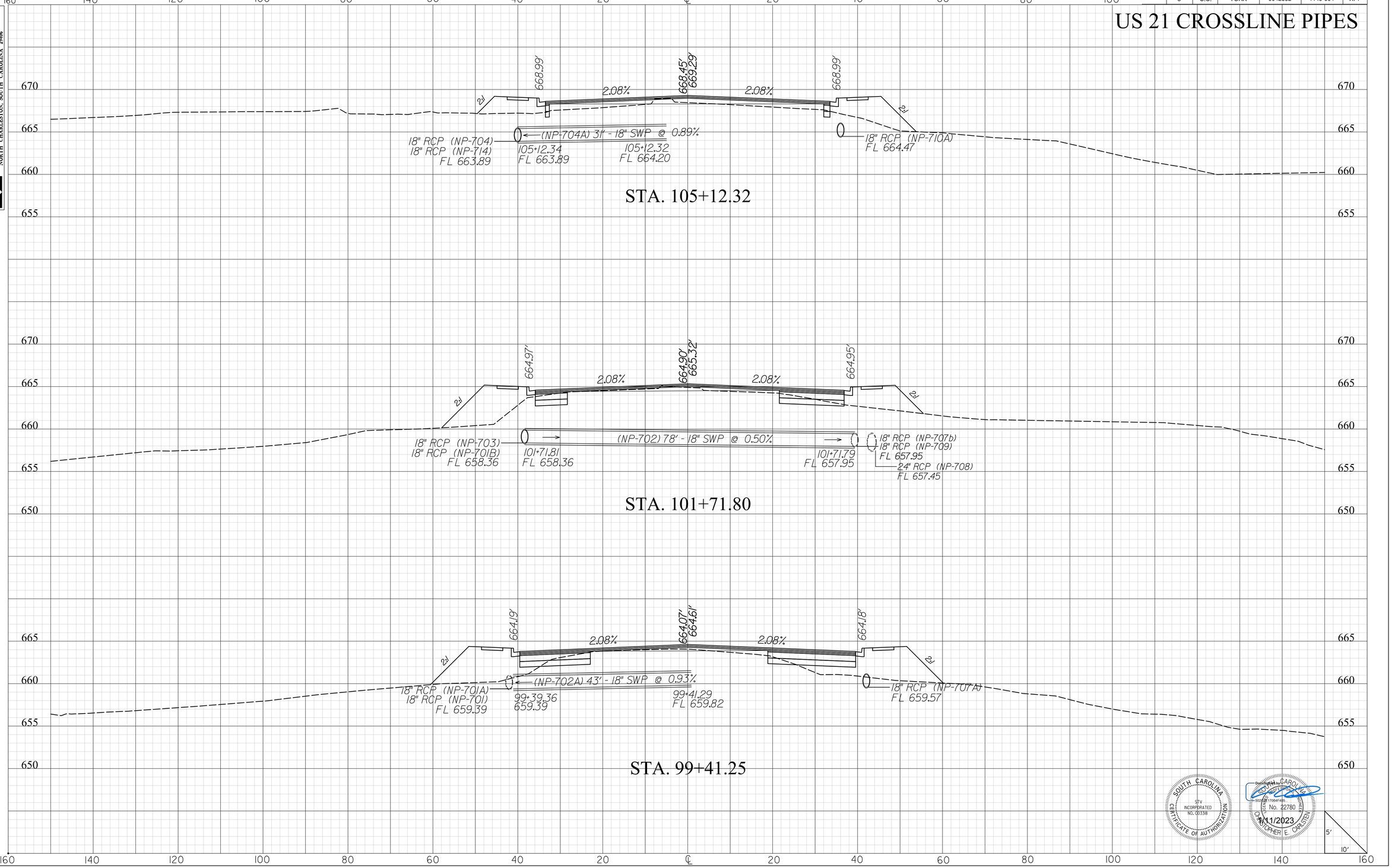
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP7

US 21 CROSSLINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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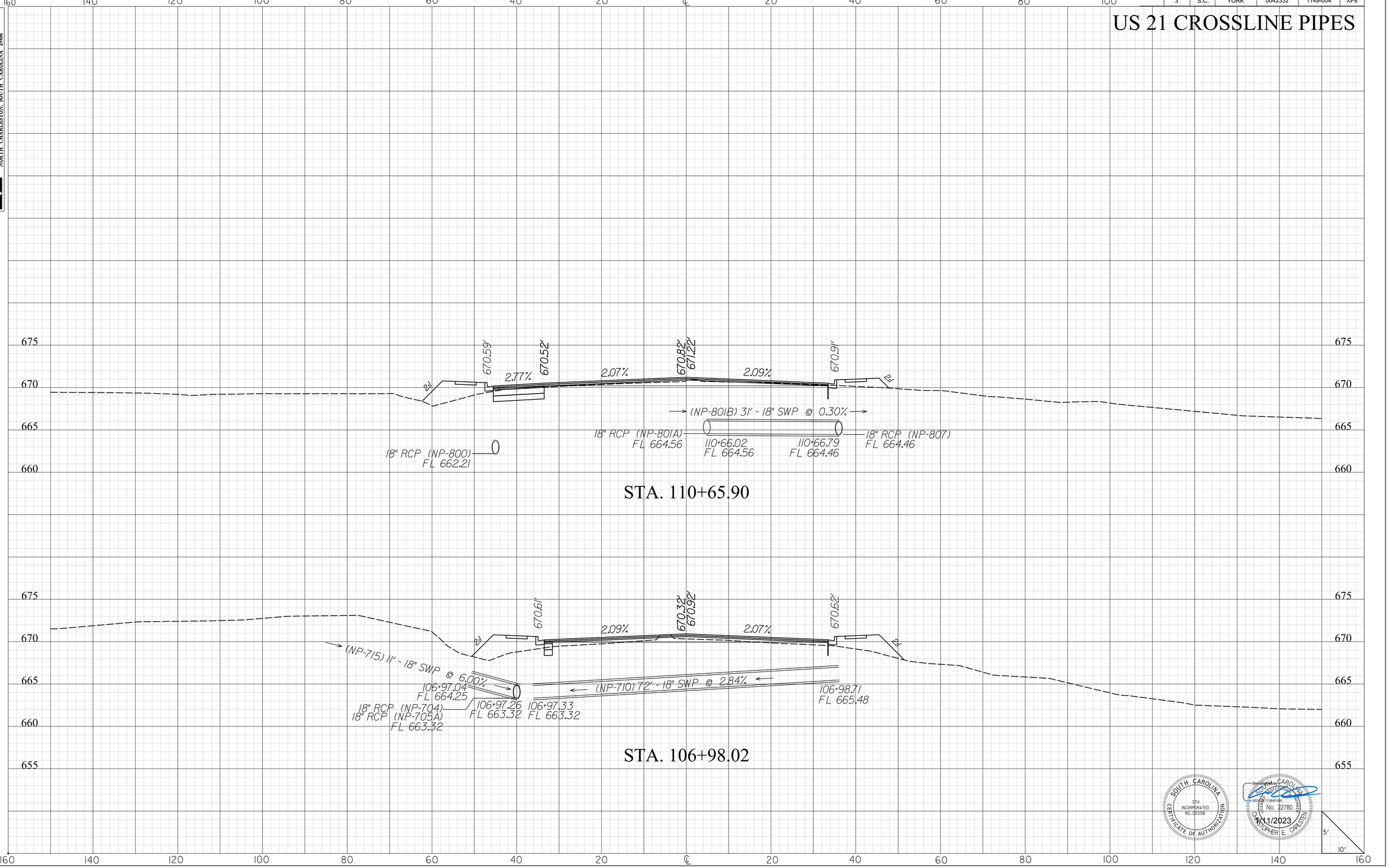
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP8

US 21 CROSSLINE PIPES



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11/10/2023

20XS.DGN

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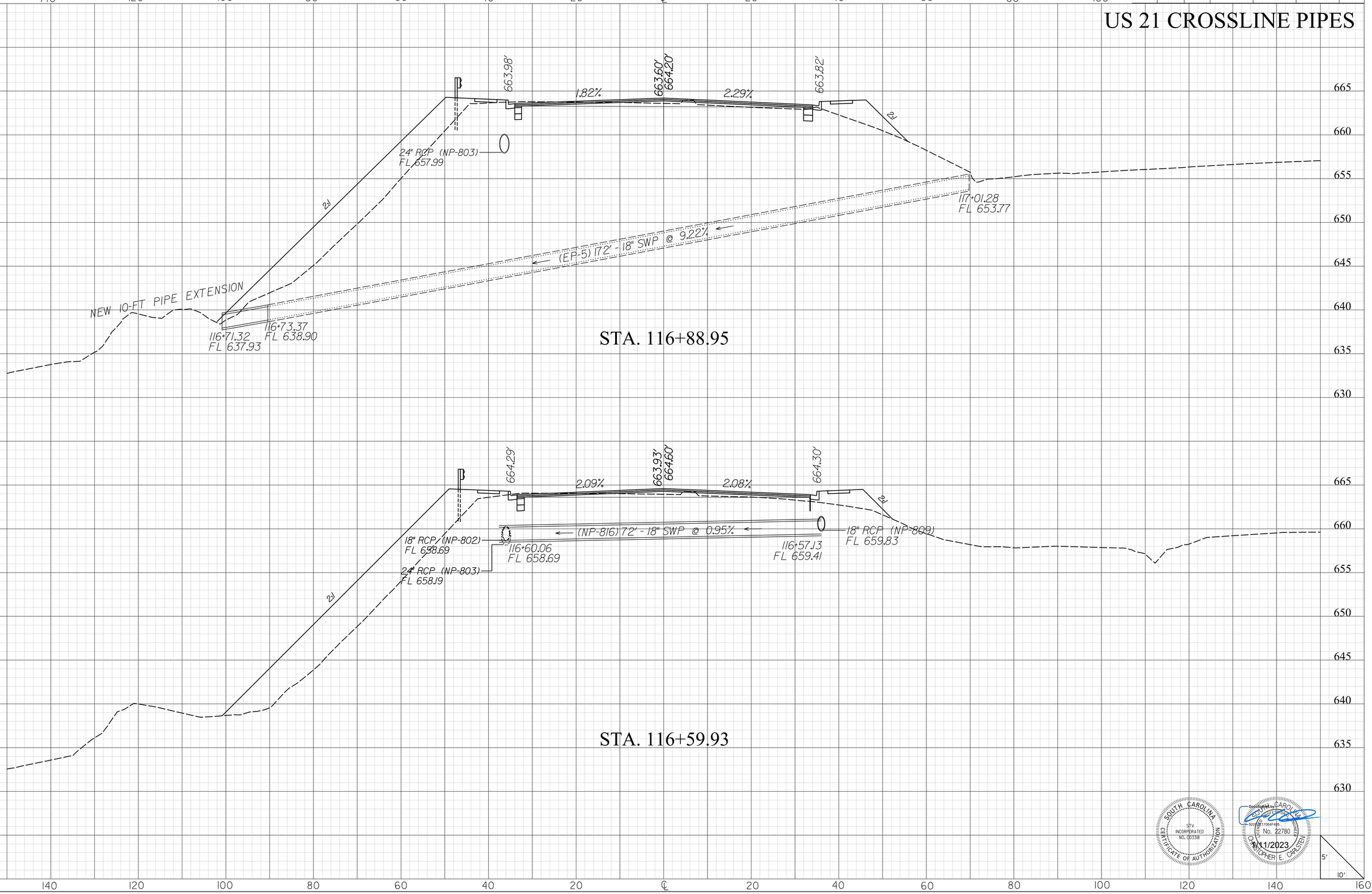
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP9

US 21 CROSSLINE PIPES

STV Incorporated
250 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
No. 22780
1/11/2023

masflitg
I:\Projects\2515776\2515776-000\90_CAD Models and Sheets\04_CT_Transportation\Roadway\II-004_RDY_XPL_US21_CLP.dgn
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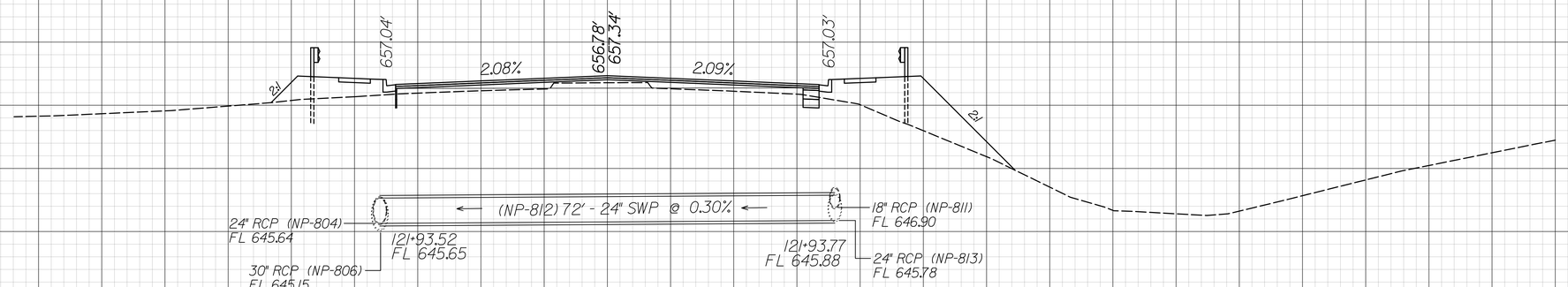
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP10

US 21 CROSSLINE PIPES



STA. 121+93.65

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARSTEN
No. 22780
1/11/2023

5'
10'

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

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1/10/2023

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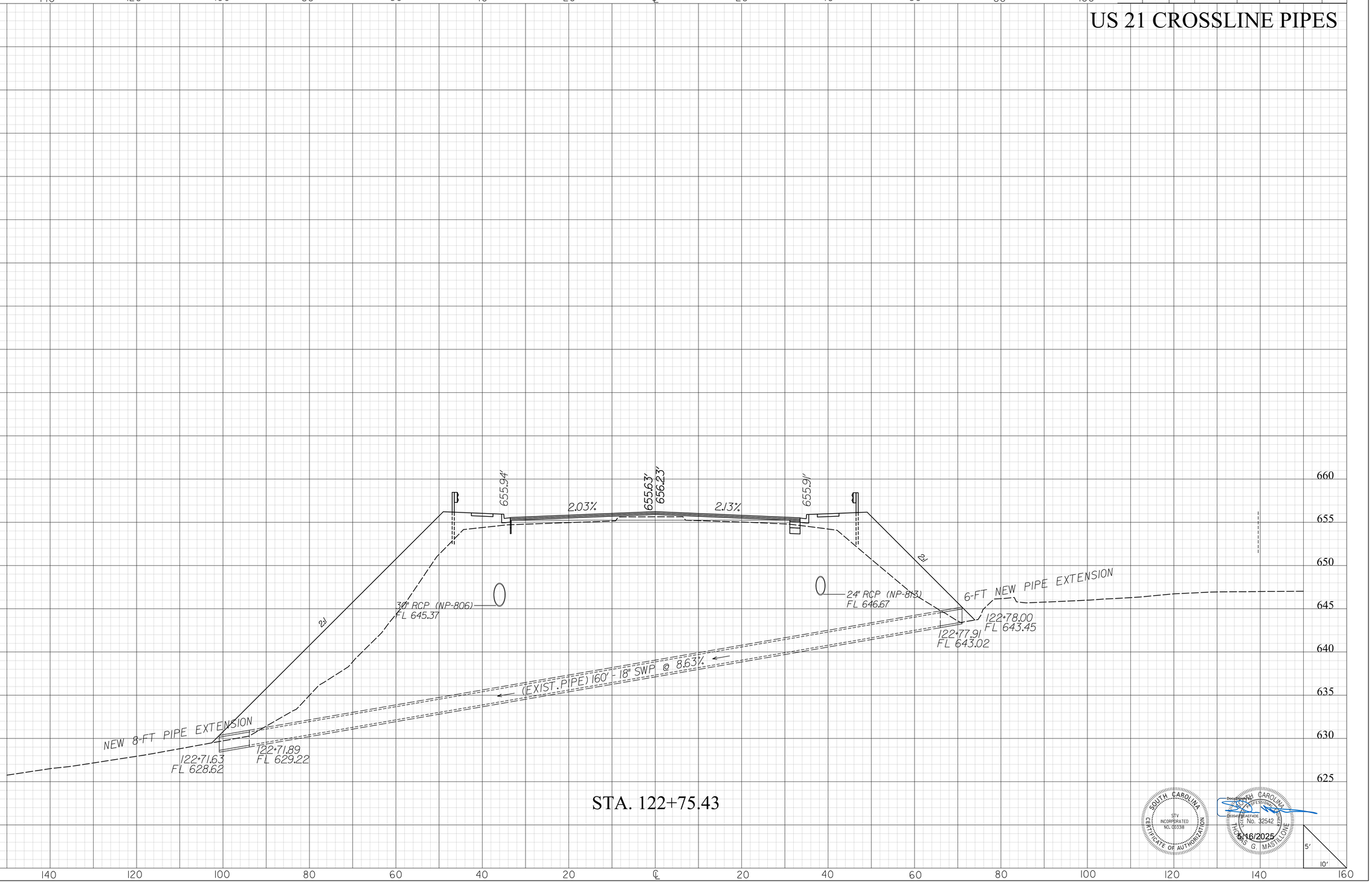
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP11

US 21 CROSSLINE PIPES



STA. 122+75.43

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 32542
THOMAS G. MASTILOVIC
5/16/2025

masttlg
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5/9/2025

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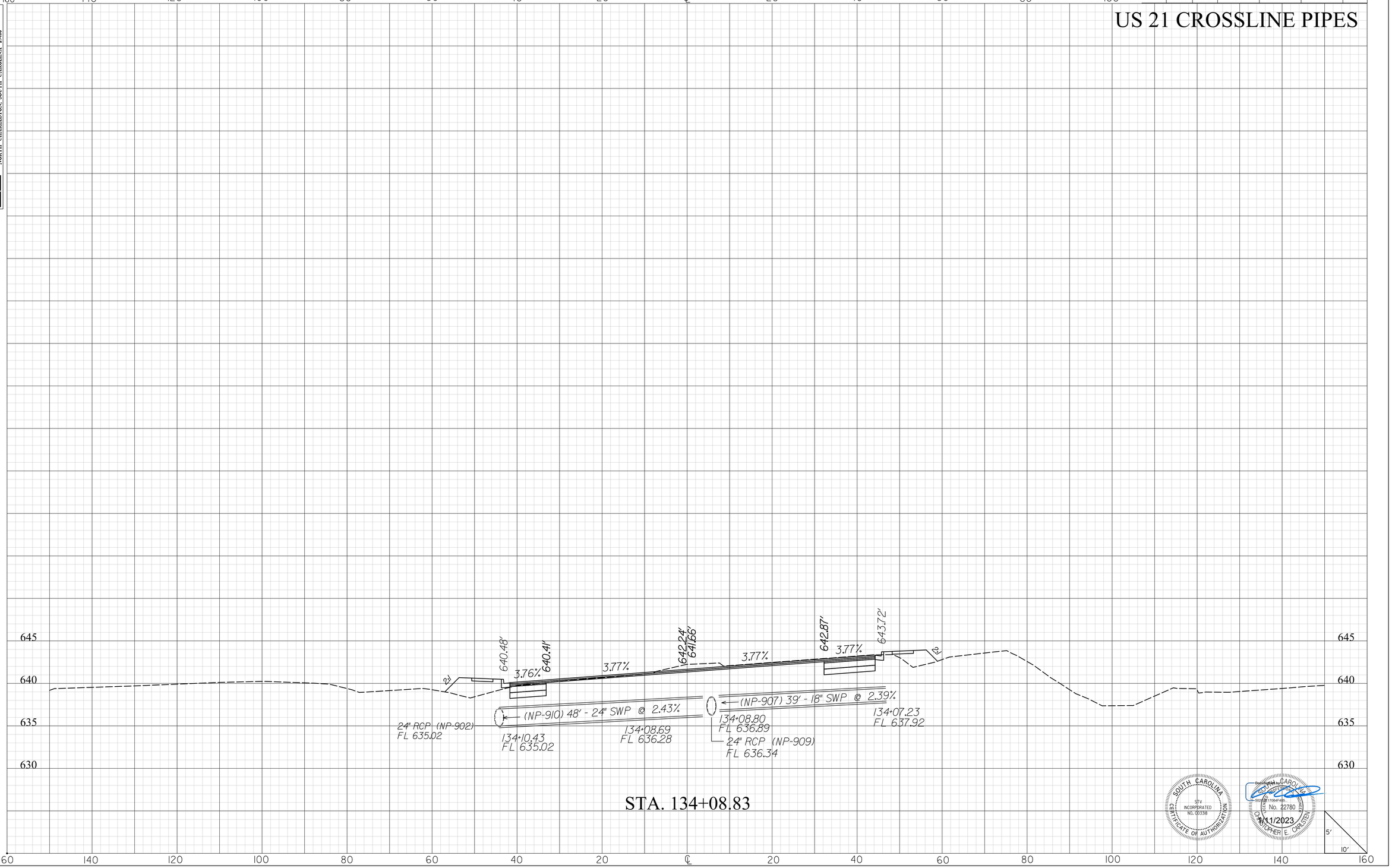
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP12

US 21 CROSSLINE PIPES



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1/10/2023

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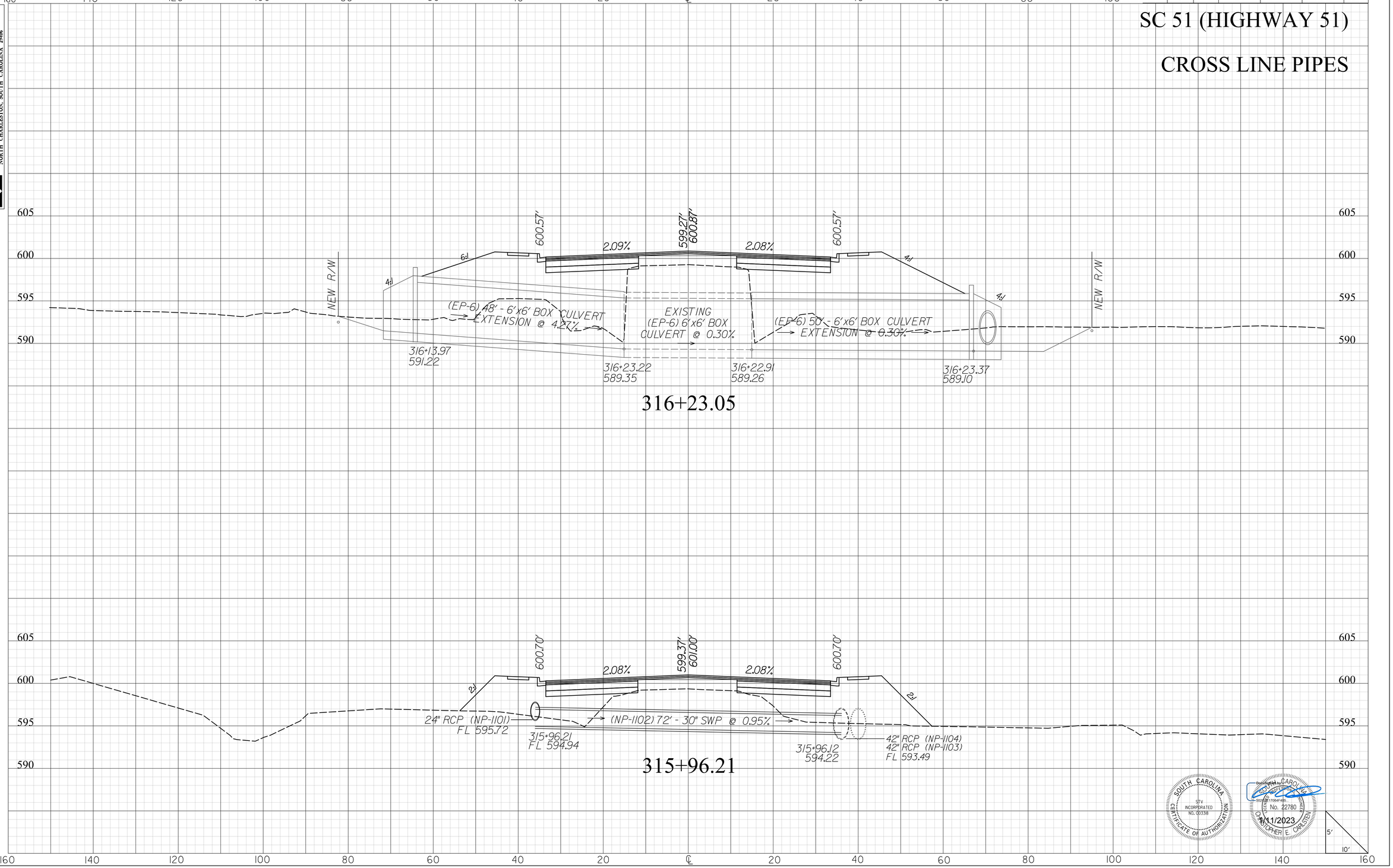
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP13

SC 51 (HIGHWAY 51)

CROSS LINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
1/11/2023

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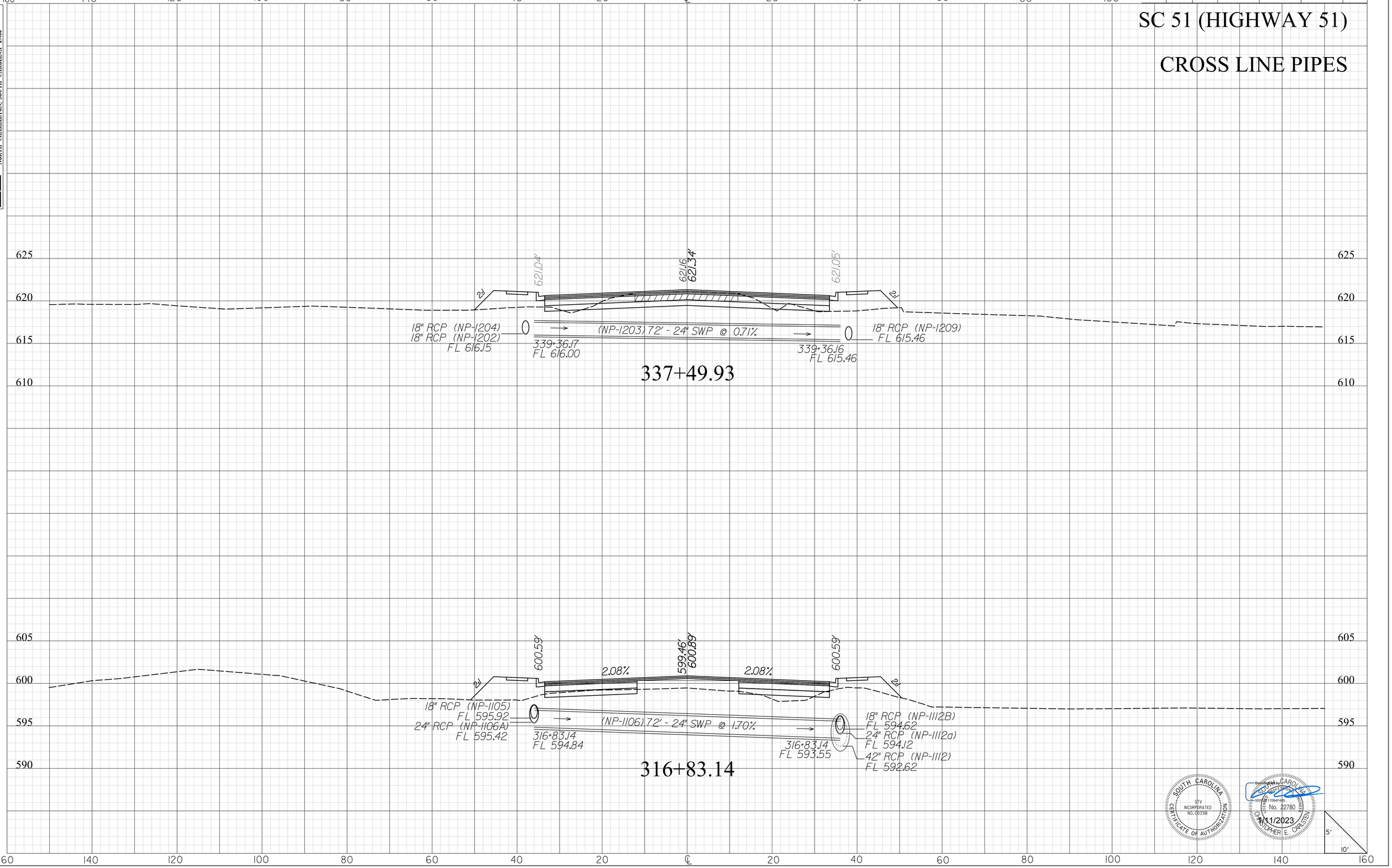
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP14

SC 51 (HIGHWAY 51)

CROSS LINE PIPES



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. 000338

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP15

S-1133 (LAKE SHORE DRIVE)

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Designed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

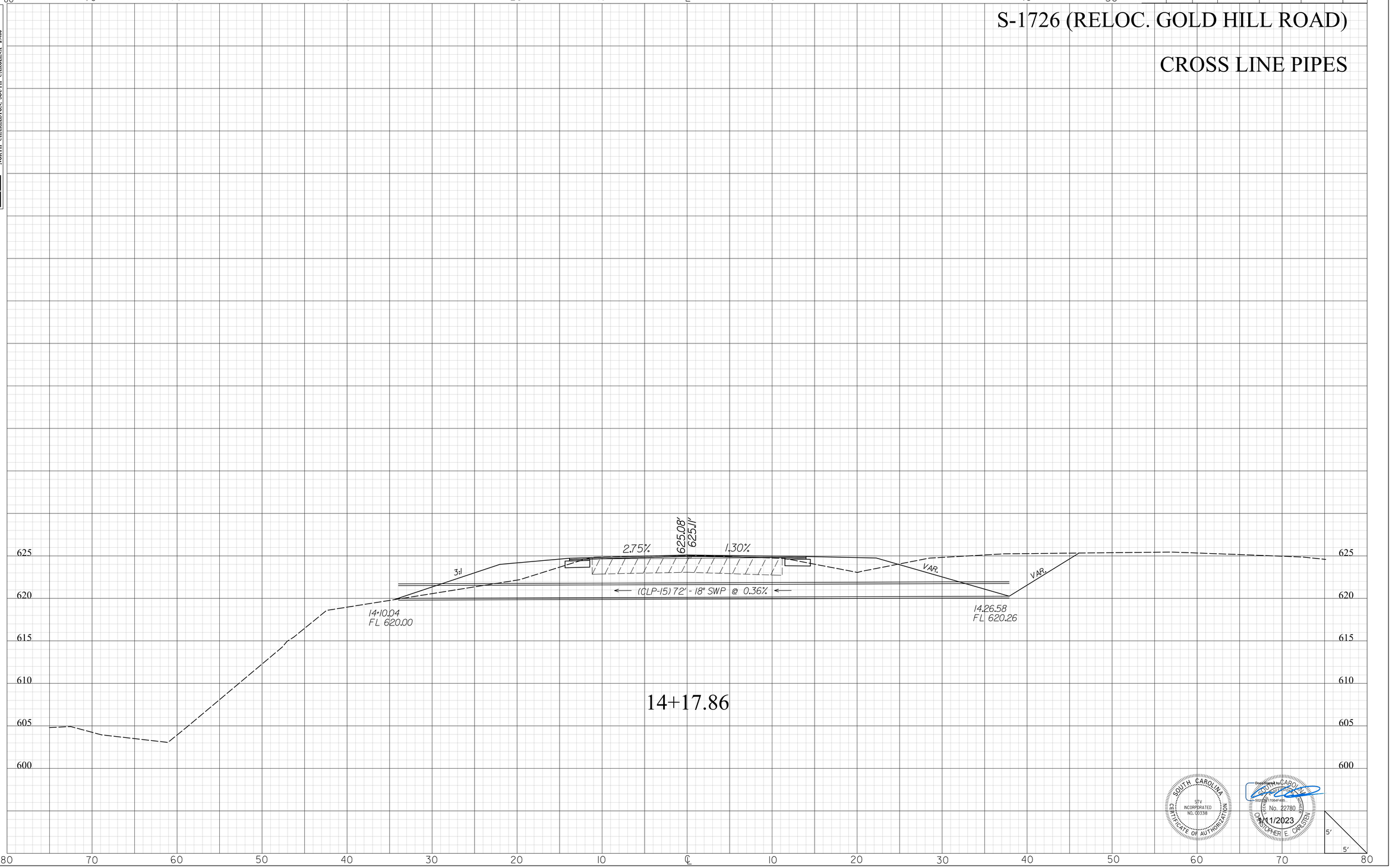
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP16

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (RELOC. GOLD HILL ROAD)

CROSS LINE PIPES



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
DocuSigned by
CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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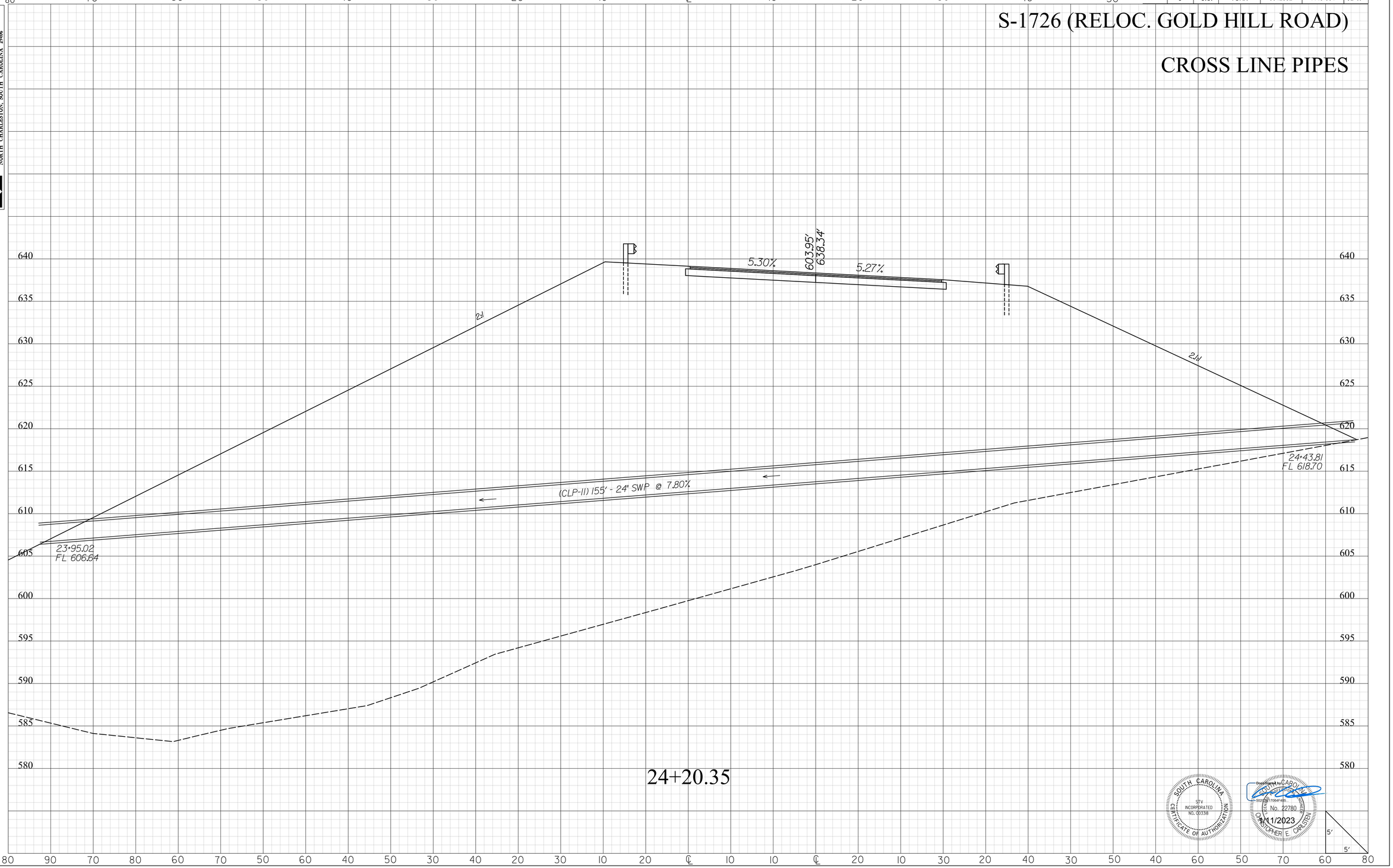
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP17

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-1726 (RELOC. GOLD HILL ROAD)

CROSS LINE PIPES



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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

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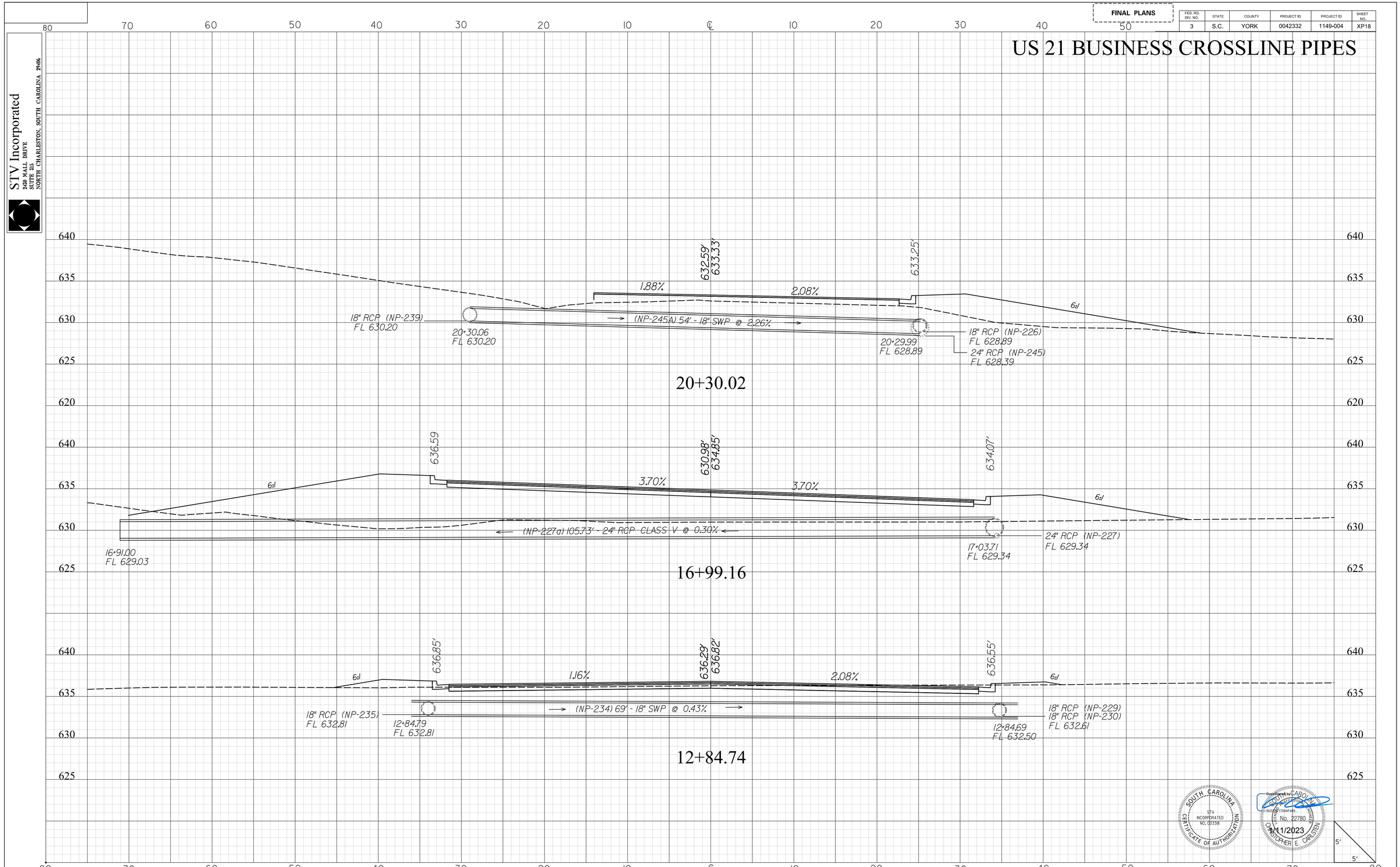
DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP18

US 21 BUSINESS CROSSLINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

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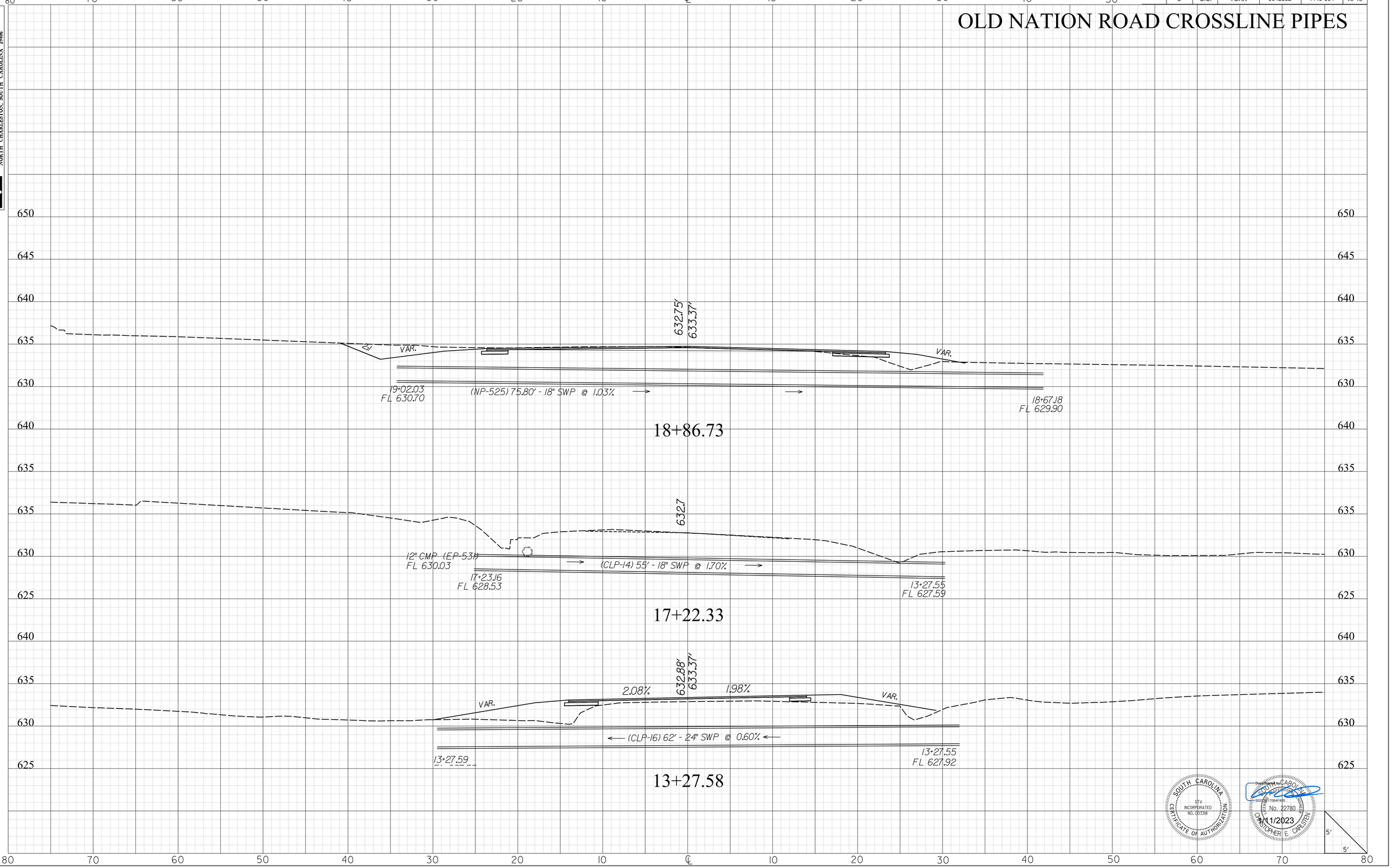
STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP19

OLD NATION ROAD CROSSLINE PIPES



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Professional Engineer
No. 22780
CHRISTOPHER E. OBRSTEN
4/11/2023

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1/10/2023

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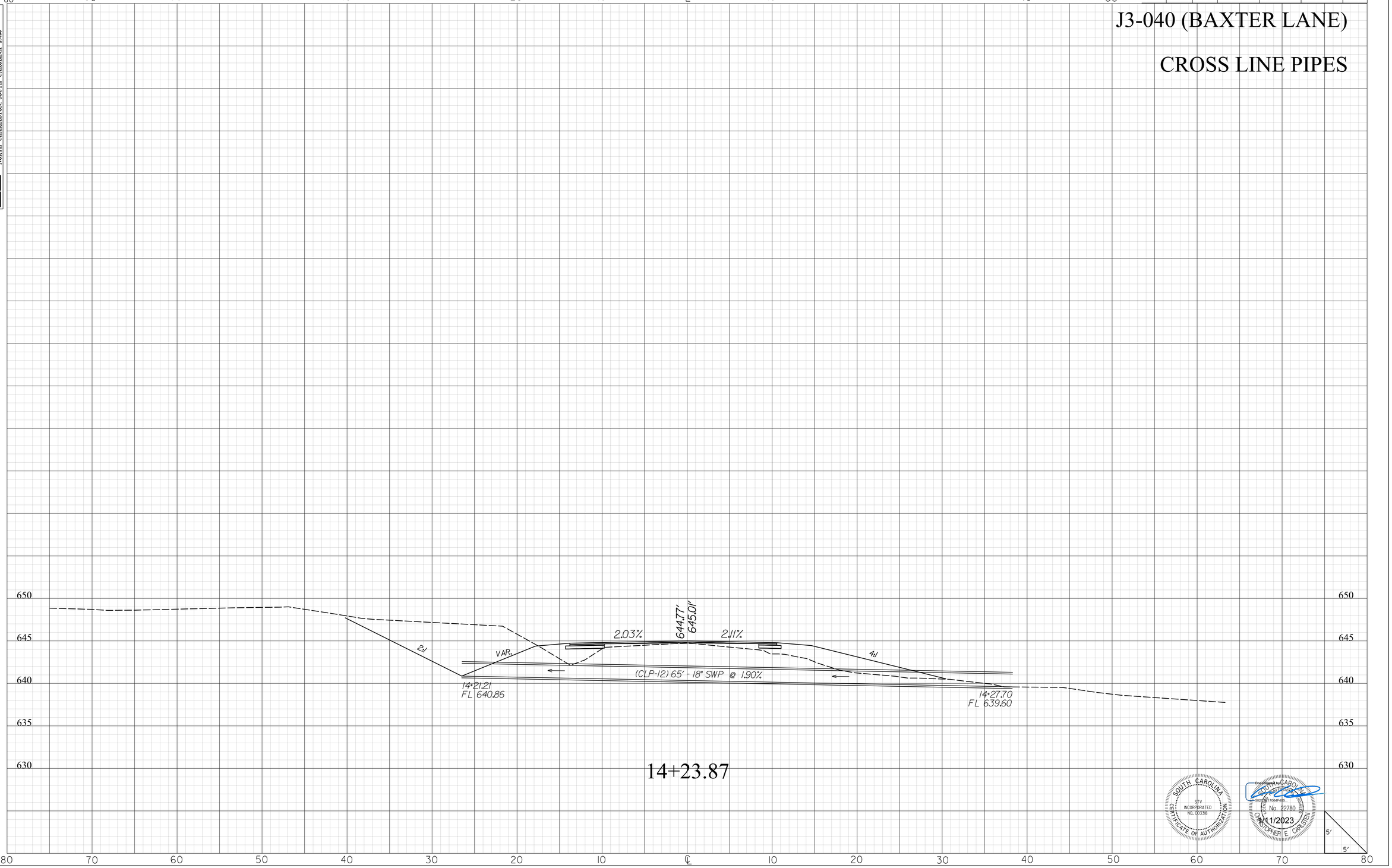
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP20

J3-040 (BAXTER LANE)

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Designed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

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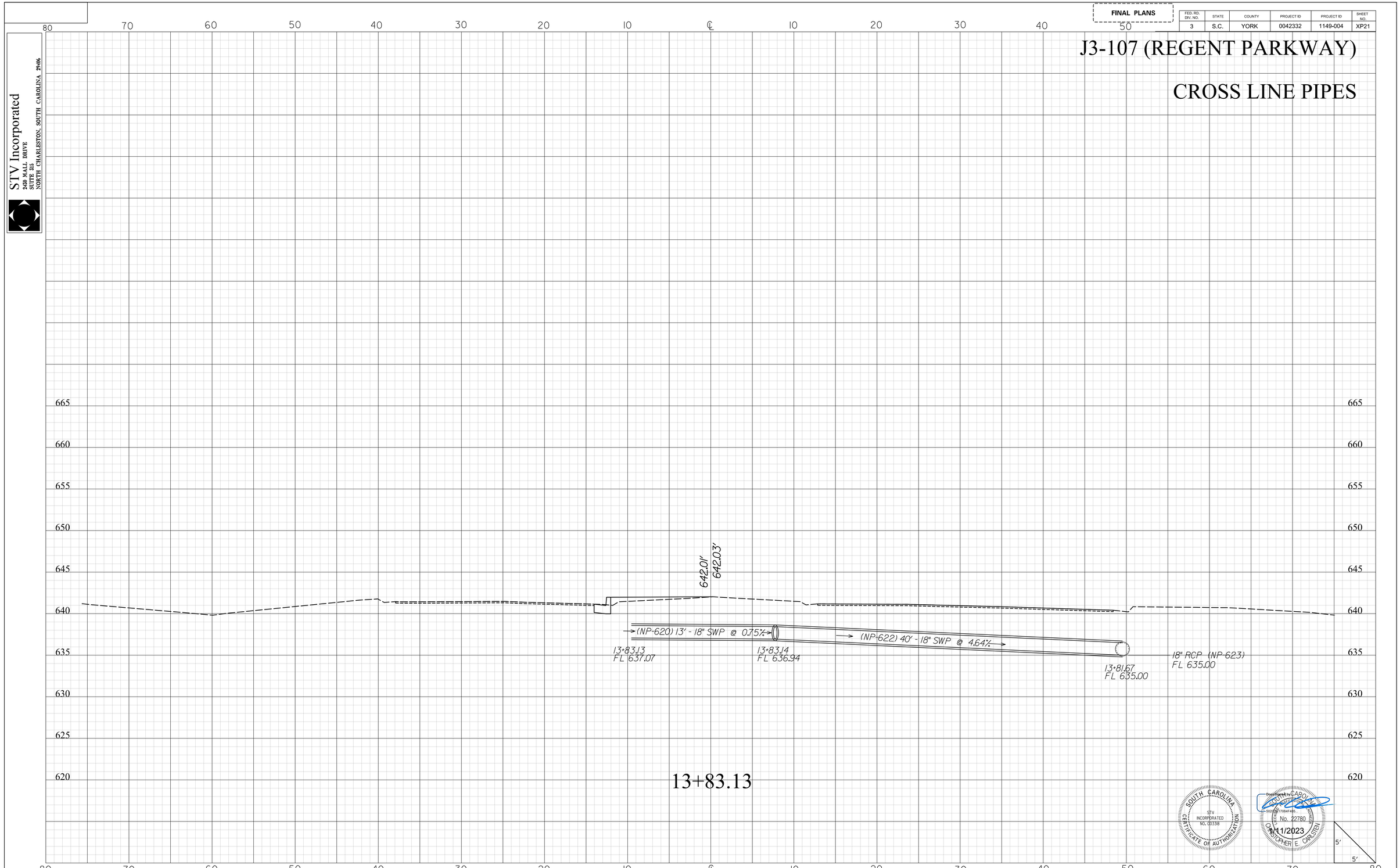
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP21

J3-107 (REGENT PARKWAY)

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E CARLSTEN
1/11/2023
No. 22780
CHRISTOPHER E. CARLSTEN

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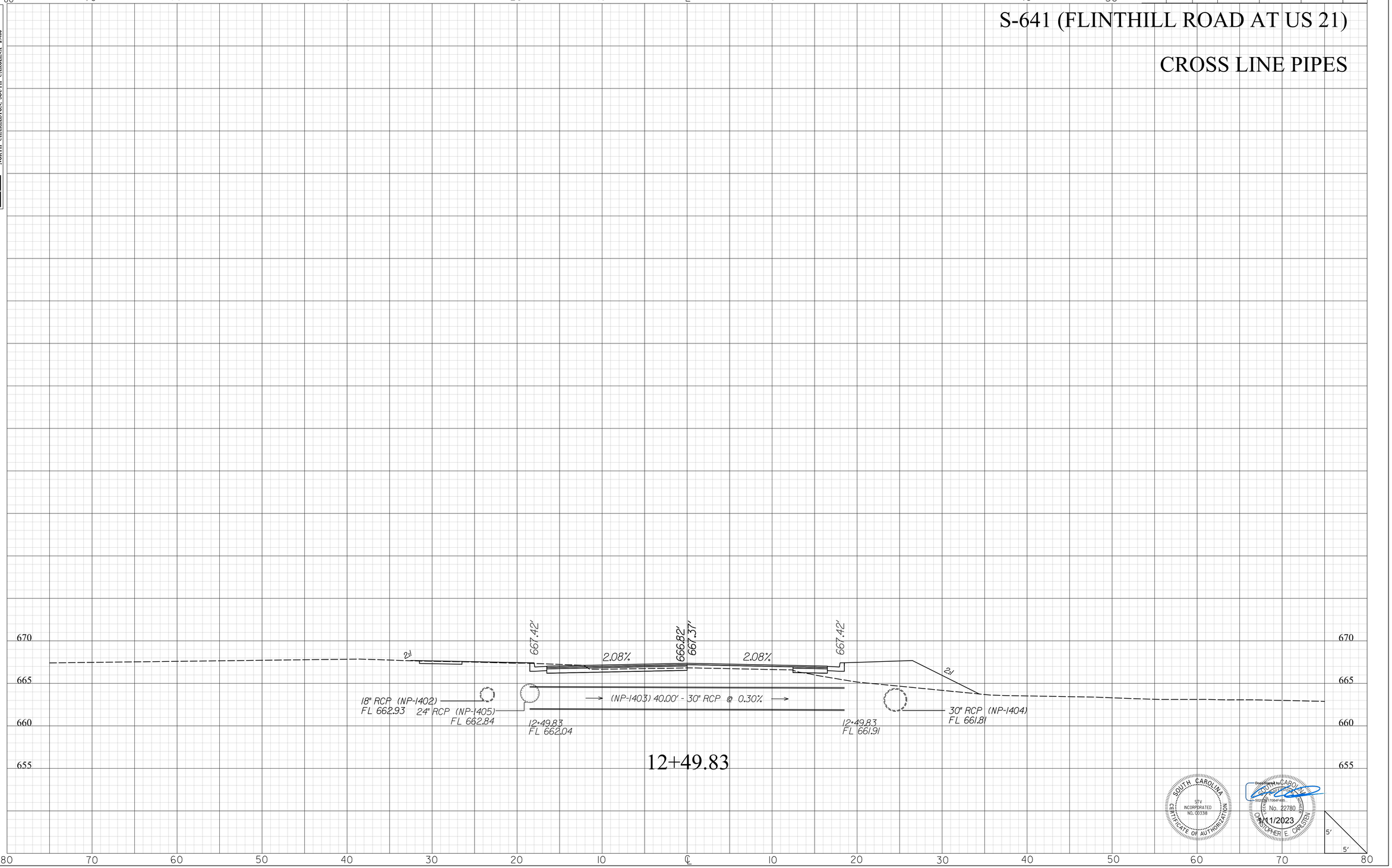
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP22

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

S-641 (FLINTHILL ROAD AT US 21)

CROSS LINE PIPES



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
CHRISTOPHER E. CARLSTEN
No. 22780
1/11/2023

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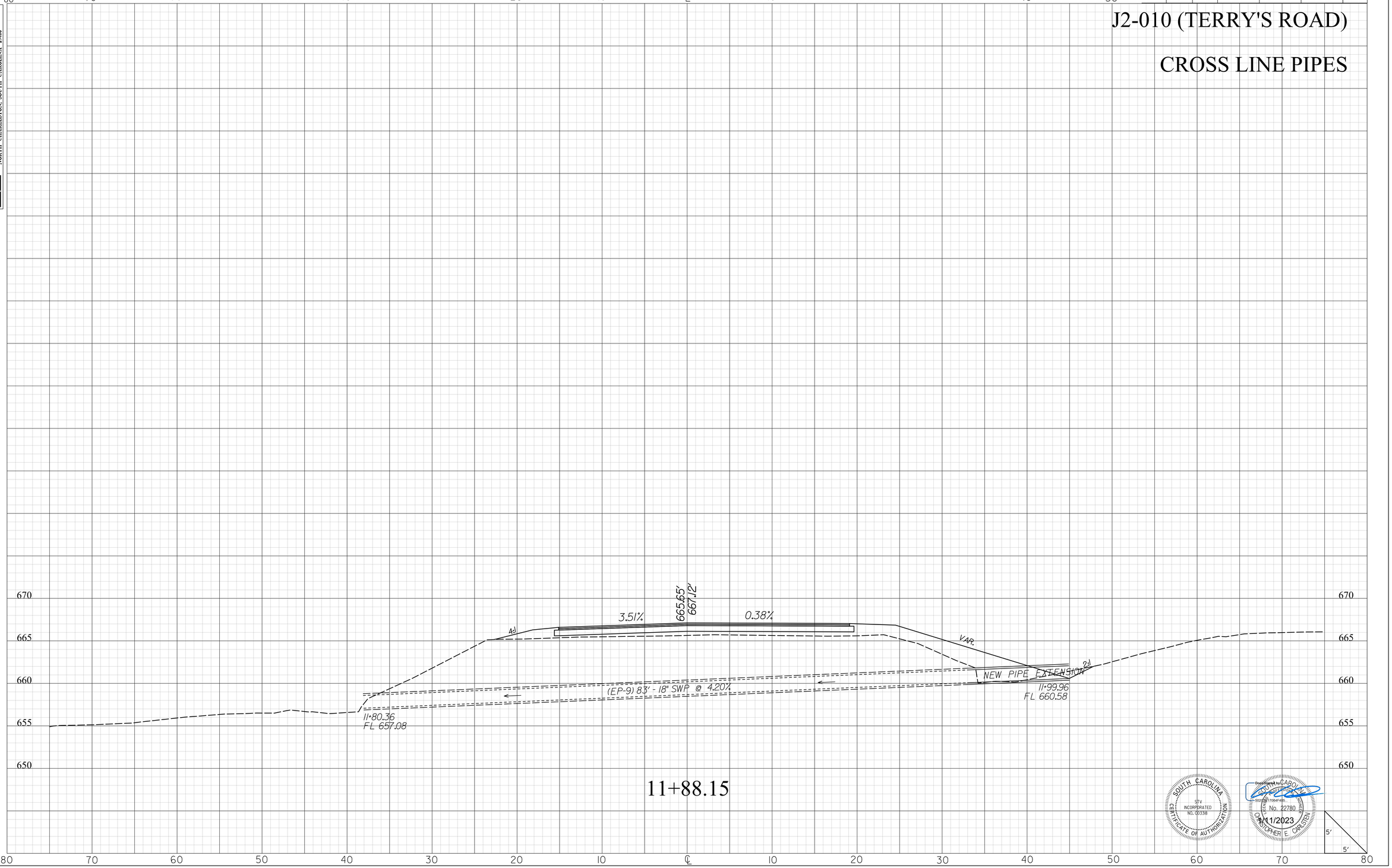
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP23

J2-010 (TERRY'S ROAD)

CROSS LINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Designed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
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1/10/2023

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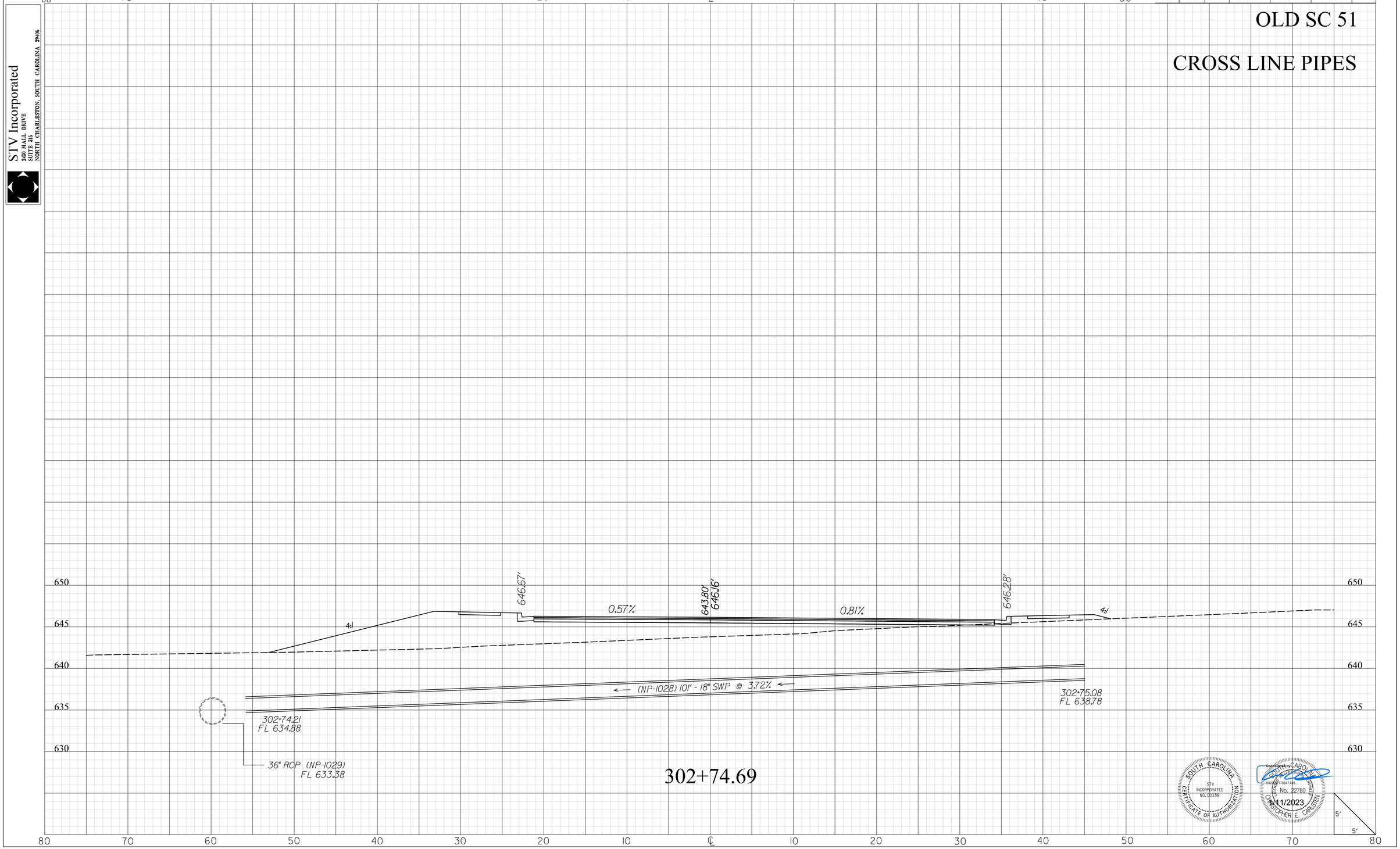
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP24

OLD SC 51

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by
SOUTH CAROLINA
DN: c=US, o=STV INCORPORATED, ou=PROFESSIONAL ENGINEER, 2.5.4.20=17064F495...
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

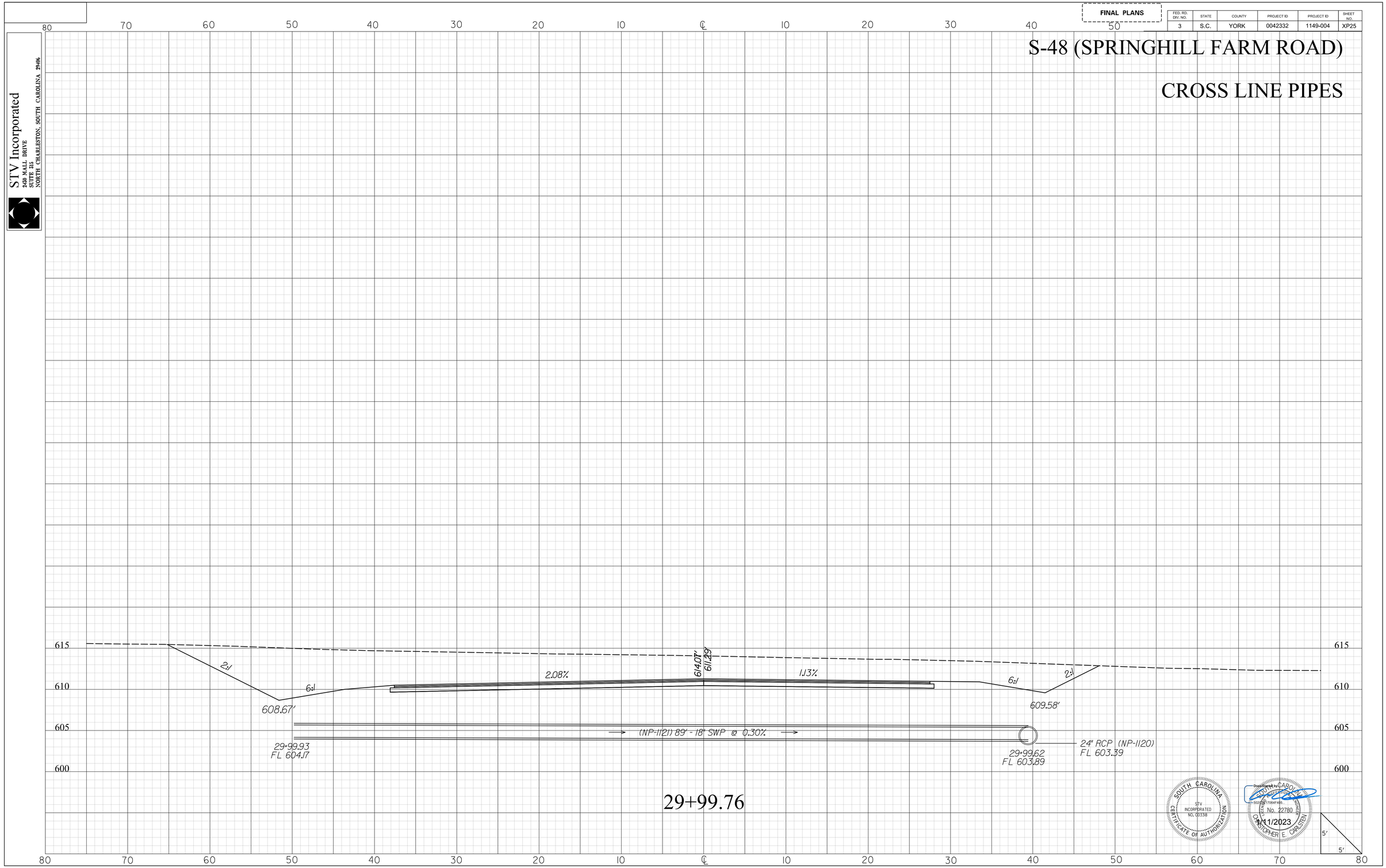
DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP25

S-48 (SPRINGHILL FARM ROAD)

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA STV INCORPORATED NO. C03318 CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER E. CARLSTEN
DN: C=US, O=STV, CN=CHRISTOPHER E. CARLSTEN, E=ECARLSTEN@STV.COM, 2.5.4.20=5027f9f17064f495...
1/11/2023
No. 22780
CHRISTOPHER E. CARLSTEN

20XS.DGN

DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP26

S-48 (SPRINGHILL FARM RD. CUL-DE-SAC)

CROSS LINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

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1/10/2023

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Designed by
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

20XS.DGN

DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

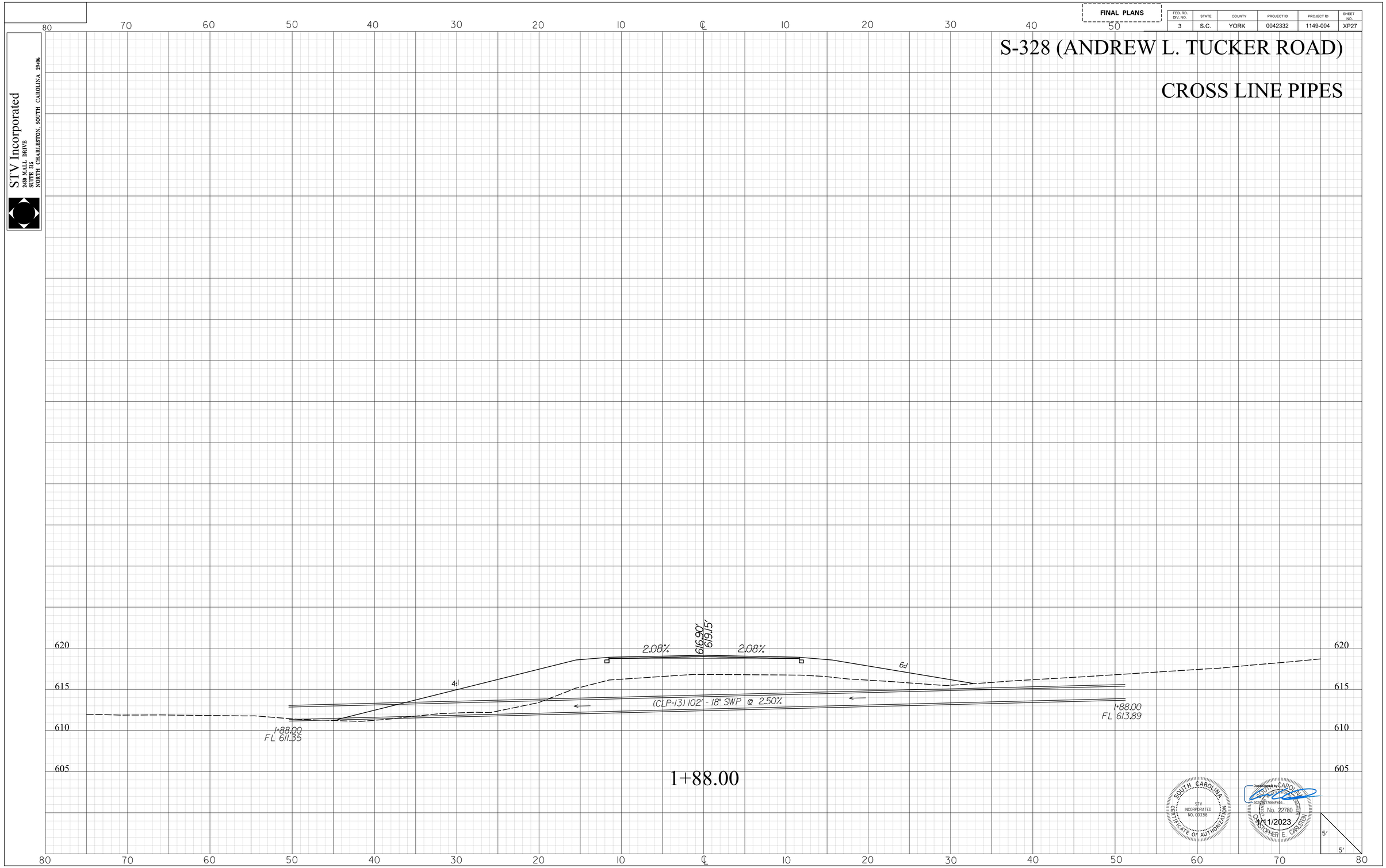
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP27

S-328 (ANDREW L. TUCKER ROAD)

CROSS LINE PIPES

STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406



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1/10/2023

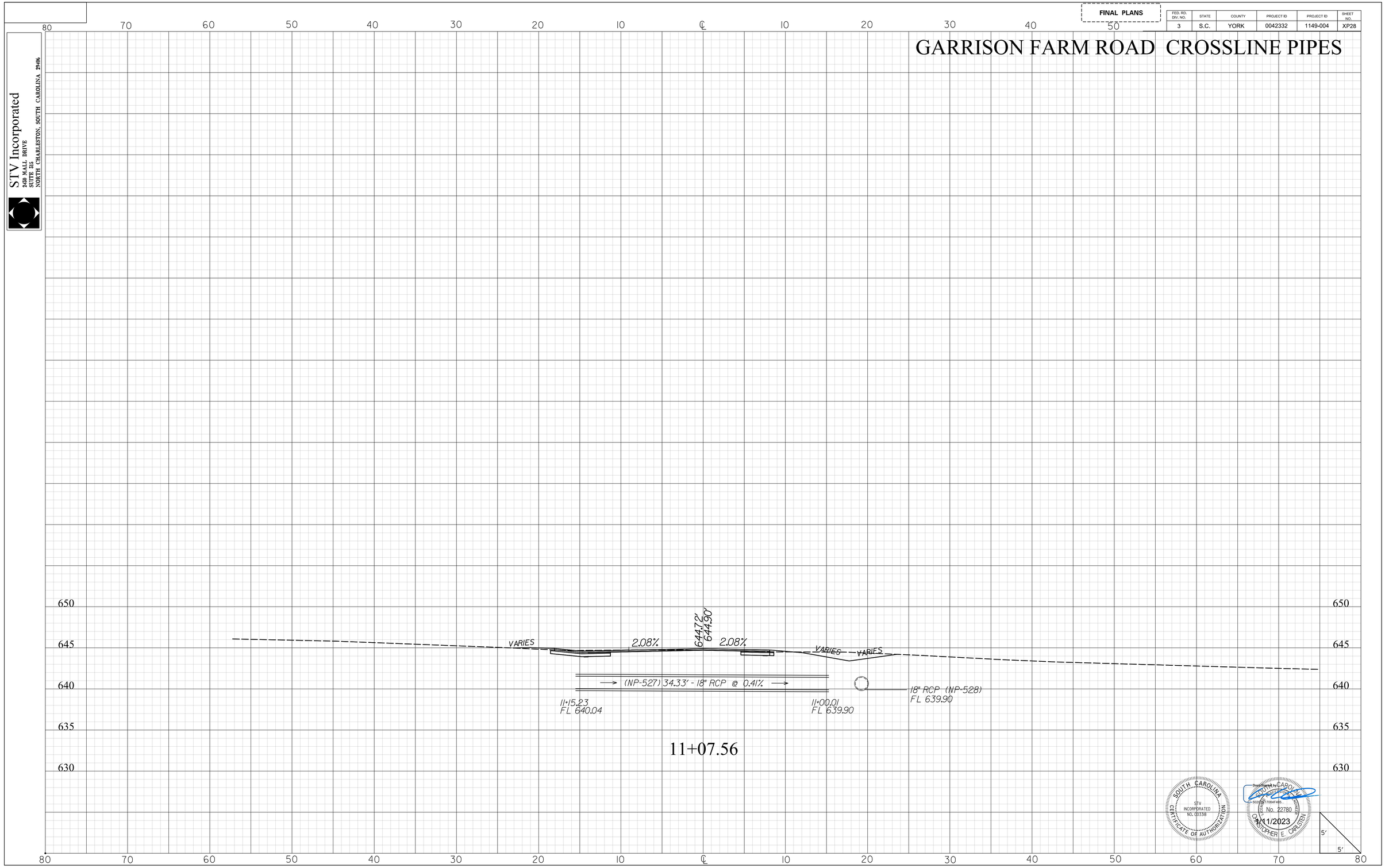
20XS.DGN

DocuSign Envelope ID: 3D5C867D-863F-445E-9309-2DE9ECD511B0

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT ID	SHEET NO.
3	S.C.	YORK	0042332	1149-004	XP28

GARRISON FARM ROAD CROSSLINE PIPES



STV Incorporated
2450 MALL DRIVE
SUITE 315
NORTH CHARLESTON, SOUTH CAROLINA 29406

SOUTH CAROLINA
STV INCORPORATED
NO. CO3338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 22780
1/11/2023
CHRISTOPHER E. CARLSTEN

mastiltg
I:\Projects\2515776\2515776_0001\90_CAD Models and Sheets\04_CT_Transportation\Roadway\11-004_RDY_XPL_US21-SC51_CLP.dgn
1/10/2023

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