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INDEX OF SHEETS
SEE SHEET ILI

FINAL PLANS

SHEET NO.	TOTAL SHEETS
1	116

PROPOSED PLANS FOR

YORK COUNTY, SOUTH CAROLINA
S.C. ROUTE 160 (HIGHWAY 160 E)
PROJECT ID P029536
YORK COUNTY PROJECT NO. 11149–010
FROM 762 FT EAST OF SC 460
TO 652 FT EAST OF S–242

SURVEY STA. 64+70.00 BEGIN
PROJECT ID P029536
S.C. ROUTE. 160 (HIGHWAY 160 E)

SURVEY STA. 103+62.56 END
PROJECT ID P029536
S.C. ROUTE 160 (HIGHWAY 160 E)

YORK COUNTY MAP

-N-

LAYOUT
SCALE 1INCH = 4,000 FEET

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 = 6.3 Acre(s)
Project Area = 8.3 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 35° 00′ 31.7" N
Longitude 80° 54′ 55.0" W

End
Latitude 35° 00′ 20.6" N
Longitude 80° 54′ 11.0" N

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				

ENVIRONMENTAL PERMIT INFORMATION

USACE PERMIT	X YES	___NO	
NEPA DOCUMENT	X YES	___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 23,100
2042 ADT 30,400
TRUCKS 4 %

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.

	S.C. RTE. 160	SIDE ROADS	TOTAL
NET LENGTH OF ROADWAY	0.737 MILES	0.147 MILES	0.884 MILES
NET LENGTH OF BRIDGES	0.000 MILES	0.000 MILES	0.000 MILES
NET LENGTH OF PROJECT	0.737 MILES	0.147 MILES	0.884 MILES
LENGTH OF EXCEPTIONS	0.000 MILES	0.000 MILES	0.000 MILES
GROSS LENGTH OF PROJECT	0.737 MILES	0.147 MILES	0.884 MILES

EQUALITIES IN STATIONING
STA. 68+88.73 S.C. RTE. 160 (BK) = STA. 68+89.08 S.C. RTE. 160 (AH) (-0.35)

CONSULTING ENGINEERING FIRM

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
STV INCORPORATED NO. C03318

STV 100 Years
STV Incorporated
500 MALL DRIVE
SUITE 111 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

ENGINEER OF RECORD

Docusigned by: SOUTH CAROLINA PROFESSIONAL ENGINEER
520C0B9F064F405...
No. 22780
CHRISTOPHER E. CASTEEL
10/12/2022

FOR CONSTRUCTION : _____ _____
STV Incorporated DATE

INDEX OF SHEETS
SEE SHEET ILI

SUBMITTED
JANUARY 28TH, 2019

FINAL R/W PLANS
FOR REVIEW ONLY

SHEET NO.	TOTAL SHEETS
IA	49

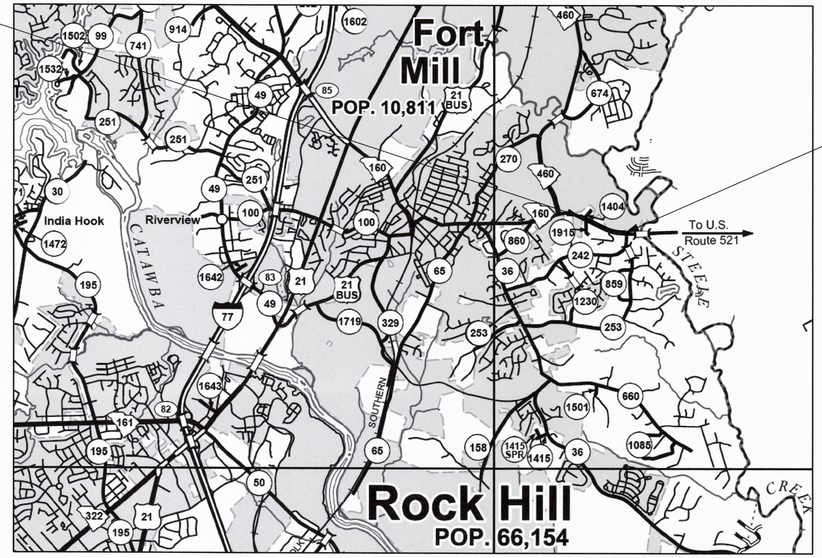
York County south carolina

Pennies for Progress

PROPOSED PLANS FOR

YORK COUNTY, SOUTH CAROLINA
S.C. ROUTE 160 (TOM HALL ROAD)
PROJECT ID P029536
YORK COUNTY PROJECT NO. 11149–010
S.C. ROUTE 160 (TOM HALL ROAD) FROM MIMOSA LANE TO HENSLEY ROAD

SURVEY STA. 71+00.00 BEGIN
PROJECT ID P029536
S.C. ROUTE. 160 (TOM HALL RD.)



YORK COUNTY MAP

SURVEY STA. 97+10.00 END
PROJECT ID P029536
S.C. ROUTE 160 (TOM HALL RD.)

LAYOUT
SCALE 1INCH = 4,000 FEET

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 = 5.75 Acre(s)
Project Area = 7.75 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 35° 00' 30" N
Longitude 80° 54' 51" W

End
Latitude 35° 00' 21" N
Longitude 80° 54' 19" N

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

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.

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)

For Right Of Way Acquisition:

Mitchell Rogers — 1/28/19
STV Incorporated
Consultant Engineer of Record — Date

SCDOT Engineer
Regional Production Engineer — Date

TRAFFIC DATA

2017 ADT 15,000
2027 ADT 20,400
TRUCKS 4 %

AT THE DIRECTION OF YORK COUNTY,DESIGN OF THE EXTENSION, RETROFIT, IMPROVEMENT, AND/OR REPLACEMENT OF AN EXISTING 5'X5' BOX CULVERT(RCBC) AT STATION 96+00 IS NOT INCLUDED IN THESE ROADWAY IMPROVEMENT PLANS. THE PROJECT HYDRAULIC DESIGN REPORT INCLUDES SPECIFIC HYDRAULIC DESIGNER'S RECOMMENDATIONS CONCERNING THE CULVERT.

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.

	S.C. RTE. 160	SIDE ROADS	TOTAL
NET LENGTH OF ROADWAY	0.494 MILES	0.147 MILES	0.641 MILES
NET LENGTH OF BRIDGES	0.000 MILES	0.000 MILES	0.000 MILES
NET LENGTH OF PROJECT	0.494 MILES	0.147 MILES	0.641 MILES
LENGTH OF EXCEPTIONS	0.000 MILES	0.000 MILES	0.000 MILES
GROSS LENGTH OF PROJECT	0.494 MILES	0.147 MILES	0.641 MILES

EQUALITIES IN STATIONING
STA. 68+88.73 S.C. RTE. 160 RELOC. (BK) = STA. 68+89.08 S.C. RTE. 160 SURVEY (AH) (-0.35)

CONSULTING ENGINEERING FIRM

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

STV 100 Years
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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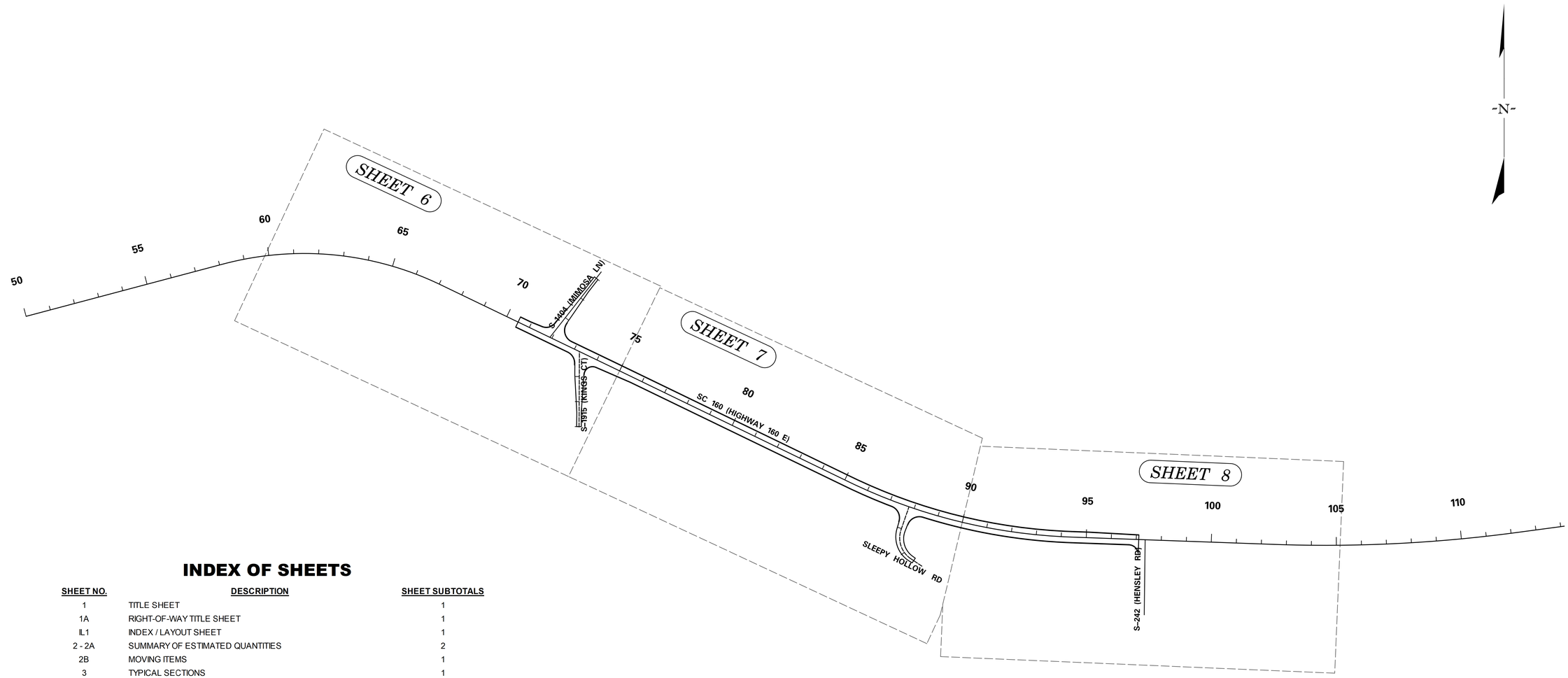
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	P029536	11149-010	SC 160	IL1



INDEX OF SHEETS

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1A	RIGHT-OF-WAY TITLE SHEET	1
IL1	INDEX / LAYOUT SHEET	1
2 - 2A	SUMMARY OF ESTIMATED QUANTITIES	2
2B	MOVING ITEMS	1
3	TYPICAL SECTIONS	1
4	RIGHT-OF-WAY DATA SHEETS	1
4A - 4C	PROPERTY STRIP MAP	3
5	GENERAL CONSTRUCTION NOTES	1
5A	REFERENCE DATA SHEETS	1
5B	STAKE OUT PLAN SHEET	1
6 - 8	ROADWAY PLAN SHEETS	3
9 - 10	PROFILE SHEETS	2
D1-D3T	DRAINAGE PLAN SHEETS	6
TC1 - TC9	TRAFFIC CONTROL PLANS	9
PM1 - PM3	PAVEMENT MARKING PLANS	3
SN1 - SN5	SIGNING PLANS	5
G1	GEOTECHNICAL NOTES SHEET	1
EC1 - EC3	EROSION CONTROL SHEETS	3
EC4 - EC5	EROSION CONTROL DATA SHEET	2
S1 - S5	CULVERT DETAIL SHEETS	5
U1 - U8	UTILITY RELOCTION SHEETS	8
X1 - X55	CROSS SECTIONS	55
	TOTAL	**116**

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

Docusigned by: SOUTH CAROLINA — No. 22780 — REGISTERED LANDSCAPE ARCHITECT — CHRISTOPHER E. CARLSTON
10/12/2022

200 0 200 400
scale feet

STV 100 Years — STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

INDEX /LAYOUT SHEET

SCALE 1"=200' S.C. ROUTE 160 DWG. NO. IL1

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10/12/2022

PROLINE.DGN

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	2

FINAL PLANS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SUMMARY OF ESTIMATED QUANTITIES

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
1071000	TRAFFIC CONTROL	NEC.	LS
1080300	CPM PROGRESS SCHEDULE	NEC.	LS
2012000	CLEARING & GRUBBING WITHIN ROADWAY	NEC.	LS
2021010	REMOVAL & DISPOSAL OF EXISTING DROP INLET	1.000	EA
2027801	REMOVAL OF EXIST. GUARDRAIL	456.000	LF
2028605	CULVERT EXTENSION PREPARATION	1.000	EA
2031000	UNCLASSIFIED EXCAVATION	5,828.000	CY
2033000	BORROW EXCAVATION	11,781.000	CY
2036020	GEOTEXTILE, SEPARATION	1,375.100	SY
2037030	GEOGRID STABILIZATION	690.000	SY
2041000	STRUCTURE EXCAVATION FOR CULVERTS	18.000	CY
2041010	DEWATERING SYSTEM NO.	NEC.	LS
2047000	TEMPORARY SHORING WALL	100.000	LF
2052000	NO. 57 STONE FOR BACKFILL	1,060.100	TON
2081001	FINE GRADING	11,208.000	SY
2103000	FLOWABLE FILL	100.000	CY
3050199	GRADED AGGREGATE BASE COURSE	2,645.000	TON
3063242	CEMENT MODIFIED RECYCLED BASE (12" UNIF)-CURING METHOD B	14,260.000	SY
3064000	PORTLAND CEMENT FOR CEMENT MODIFIED RECYCLED BASE COURSE	805.000	TON
3069900	MAINTENANCE STONE	401.000	TON
3100310	HOT MIX ASPHALT BASE COURSE - TYPE A	670.000	TON
4011004	LIQUID ASPHALT BINDER PG64-22	530.000	TON
4012120	FULL DEPTH ASPH. PAV. PATCHING 12"UNIF	425.000	SY
4013200	MILLING EXISTING ASPHALT PAVEMENT 2.0"	7,359.000	SY
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	170.000	SY
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	1,590.000	TON
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	6,884.000	TON
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	340.000	TON
4037221	DRIVEWAY PAVING-SURFACE TYPE C NON-RESURFACING PROJECT	240.000	TON

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
4100100	HIGH PERFORMANCE CHIP SEAL APPLICATION (INCLUDING AGGREGATE)	14,260.000	SY
4100105	EMULSION FOR HIGH PERFORMANCE CHIP SEAL	5,704.000	GAL
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	304.000	SF
6052121	PORTABLE TERMINAL IMPACT ATTENUATOR-TEST LEVEL 2	4.000	EA
605212A	ANCHOR KIT - PORT. ATTENUATOR(TEST LEVEL 2)	4.000	EA
6053110	TEMPORARY CONCRETE BARRIER	980.000	LF
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	12.000	EA
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	516.000	EA
6250005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	416.000	LF
6250010	4" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	20,881.000	LF
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	409.000	LF
6250105	4" YELLOW BROKEN LINES(GAPS EXC) - FAST DRY PAINT	3,558.000	LF
6250110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	23,407.000	LF
6271005	4" WHITE BROKEN LINES(GAPS EXCL.)THERMOPLASTIC- 90 MIL.	486.000	LF
6271010	4" WHITE SOLID LINES (PVT. EDGE LINES) THERMO.- 90 MIL.	9,116.000	LF
6271025	24" WHITE SOLID LINES (STOP/DIAG LINES)-THERMO.-125 MIL	223.000	LF
6271030	WHITE SINGLE ARROWS (LT, STRGHT, RT) THERMO.-125 MIL.	4.000	EA
6271035	WHITE WORD MESSAGE "ONLY" -THERMOPLASTIC - 125 MIL.	3.000	EA
6271064	4" YELLOW BROKEN LINES(GAPS EXC)THERMOPLASTIC - 90 MIL.	1,883.000	LF
6271074	4" YELLOW SOLID LINES(PVT.EDGE LINES) THERMO-90 MIL.	9,903.000	LF
6300005	PERMANENT CLEAR PAVEMENT MARKERS- MONO-DIR.- 4"X4"	4.000	EA
6301100	PERMANENT YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	172.000	EA
6510105	FLAT SHEET, TYPE III, FIXED SZ. & MSG. SIGN	89.980	SF
6510106	FLAT SHEET, TYPE III, SIZE DETERMINED BY MSG	12.500	SF
6531210	U-SECTION POST FOR SIGN SUPPORTS - 3P	252.000	LF
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	882.000	LF
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	707.000	LF
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1-CONDUCTOR FOR LOOP WIRE	1,989.000	LF
6780495	SAWCUT FOR LOOP DETECTOR	687.000	LF
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	2.000	EA
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	NEC.	LS
7011402	CONC. FOR STRUCTURES - CLASS 4000(CULVERT)	18.470	CY
7031100	REINF. STEEL FOR STRUCTURES (ROADWAY)	2,369.000	LB

SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

Digitally signed by CHRISTOPHER BREADY DOE
DOE No. 32542
5/18/2023

STV 100 Years
STV Incorporated
2450 MALL DRIVE
SUITE 515 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	2A

FINAL PLANS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
7143618	18" SMOOTH WALL PIPE	1,560.000	LF
7143624	24" SMOOTH WALL PIPE	364.000	LF
7191205	CATCH BASIN -TYPE 9	1.000	EA
7192020	DROP INLET (24" X 36")	5.000	EA
7192105	MANHOLE	5.000	EA
7198740	PIPE END STRUCTURE - 24"	1.000	EA
7199100	BEVELING OF PIPE END	28.000	EA
8041010	RIP-RAP (CLASS A)	380.000	TON
8041020	RIP-RAP (CLASS B)	674.000	TON
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	1,241.000	SY
8051151	MT3 LEADING END TREATMENT TL3	2.000	EA
8051710	MB TRAILING END TREATMENT	2.000	EA
8052100	MGS3 GR STANDARD SHOULDER	637.000	LF
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	63.000	EA
8091050	RIGHT OF WAY PLAT	NEC.	LS
8100100	PERMANENT COVER	7.848	ACRE
8100200	TEMPORARY COVER	3.924	ACRE
8101100	SELECT MATERIAL	3,170.000	CY
8104005	FERTILIZER (NITROGEN)	784.800	LB
8104010	FERTILIZER (PHOSPHORIC ACID)	784.800	LB
8104015	FERTILIZER (POTASH)	784.800	LB
8105005	AGRICULTURAL GRANULAR LIME	15,695.800	LB
8109050	SELECTIVE WATERING	135,750.000	GAL
8109901	MOWING	23.544	ACRE
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	1.330	MSY
8151111	TEMPORARY EROSION CONTROL BLANKET (CLASS A)	16.611	MSY
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	15.696	ACRE
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	40.000	LF
8153000	SILT FENCE	3,500.000	LF
8153090	REPLACE/REPAIR SILT FENCE	350.000	LF
8154010	CLEANING SILT BASINS	572.000	CY
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	875.000	LF
8154155	INLET FILTER CLEANING	13.000	EA
8156210	INLET STRUCTURE FILTER - TYPE B	13.000	EA

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	134.000	TON
8156490	STABILIZED CONSTRUCTION ENTRANCE	550.000	SY

SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
REGISTERED PROFESSIONAL ENGINEER
10/12/2022

STV 100 Years
STV Incorporated
2450 MALL DRIVE
SUITE 515 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	2B

FINAL PLANS

MOVING ITEMS

ITEM NO.	LOCATION			DESCRIPTION	WORK TO BE DONE	UNIT	OWNER	TRACT NO.	COMPLETED	DELETED	COMMENTS
	OFFSET	LT/RT	STATION								
1	30	RT	73+00	"Kings Court Rentals" - Sign	Move and reset outside the R/W	L.S.	James W Cater	14			
2	25	LT	48+30	Metal Wagon Wheel Next to Drive Entrance	Move and reset outside proposed R/W	L.S.	Ann M Alsabbah	33			
3	25	LT	48+40	Metal Wagon Wheel Next to Drive Entrance	Move and reset outside proposed R/W	L.S.	Ann M Alsabbah	33			

SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA PROFESSIONAL ENGINEER CHRISTOPHER E. CARLSTEN
No. 22780
10/12/2022

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

MOVING ITEMS SHEET

SCALE NTS S.C. ROUTE 160 DWG. NO. 2B

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10/12/2022

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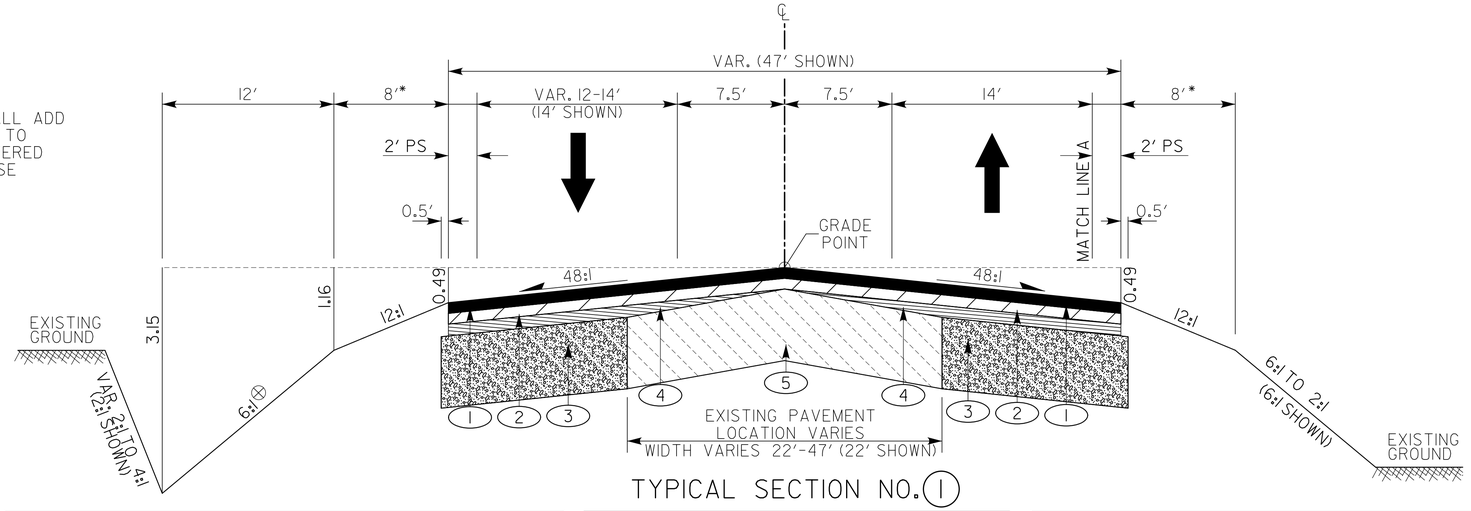
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	3

FINAL PLANS

**WHERE DIRECTED BY THE RCE THE CONTRACTOR SHALL ADD 8" OF GABC TO THE WIDENING SOIL SUBGRADE PRIOR TO FULL DEPTH RECLAMATION. THE COST SHALL BE COVERED UNDER PAY ITEM 3050199 - GRADED AGGREGATE BASE COURSE.



TYPICAL SECTION NO. (1)

S.C. ROUTE 160 FROM STA. 64+70.00 TO STA. 70+50.00 CONTRACTOR SHALL APPLY PAVEMENT MARKING AS SHOWN IN THE PLANS. SHOULD REMOVAL OF THE EXISTING PAVEMENT MARKING CAUSE SCARING OF THE EXISTING PAVEMENT OR IF DIRECTED BY THE RCE THE CONTRACTOR SHALL MILL 2" OF EXISTING PAVEMENT AND REPLACE WITH HOT MIX ASPHALT SURFACE COURSE, TYPE B (220 LBS./S.Y.) PRIOR TO APPLYING FINAL PAVEMENT MARKINGS.

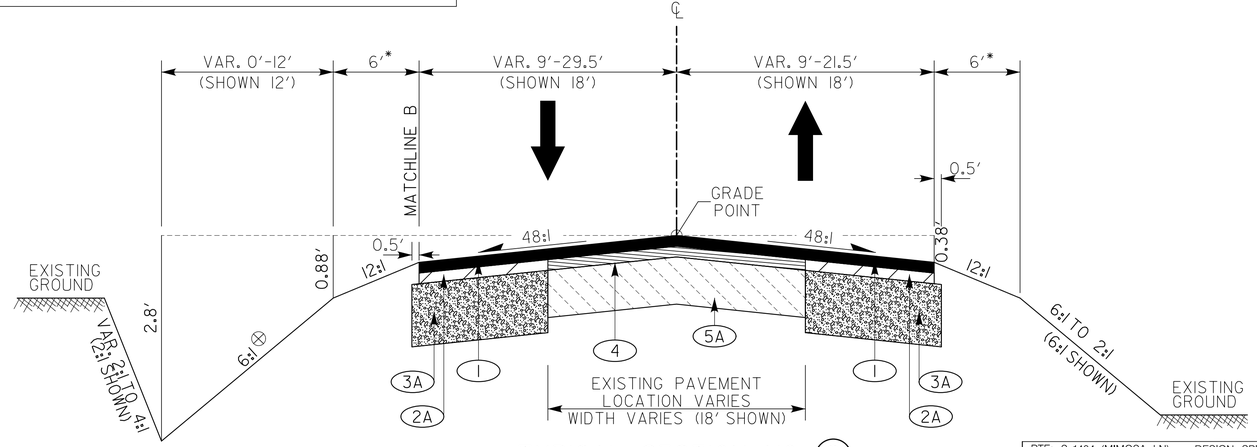
USE THIS SECTION ON
S.C. ROUTE 160 STA. 70+50.00 TO STA. 97+10.00

S.C. ROUTE 160 FROM STA. 97+10.00 TO STA. 103+62.56 CONTRACTOR SHALL MILL 2" OF EXISTING PAVEMENT AND REPLACE WITH HOT MIX ASPHALT SURFACE COURSE, TYPE B (220 LBS./S.Y.)

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. 720-105-01 FOR DETAILS OF CONCRETE CURB AND GUTTER.
- -SEE STANDARD DRAWING NO. 203-905-00 FOR DETAILS OF MAILBOX PLACEMENT.
- -SEE STANDARD DRAWINGS SECTION 719-600 FOR DETAILS OF DRAINAGE STRUCTURE END TREATMENTS.

*WIDEN SHOULDER AN ADDITIONAL 3.75' TO 8.25' WHERE GUARDRAIL IS CONSTRUCTED. SEE SCDOT STANDARD DRAWING SECTION 805-000 THROUGH 805-500 FOR GUARDRAIL DETAILS. SEE PLANS FOR LOCATION.

⊗ 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.



TYPICAL SECTION NO. (2)

USE THIS SECTION ON
S-1404 (MIMOSA LN) STA. 47+00.00 TO STA. 49+77.98
S-1915 (KINGS CT) STA. 47+00.00 TO STA. 49+76.19
SLEEPY HOLLOW RD. RELOC. STA. 47+50.00 TO STA. 49+70.79

RTE: S-1404 (MIMOSA LN)	DESIGN SPEED	
FUNCTIONAL CLASS : URBAN LOCAL (GROUP 1)		
MPH	FROM STA.	TO STA.
25	47+00.00	49+77.98
RTE: S-1915 (KINGS CT)	DESIGN SPEED	
FUNCTIONAL CLASS : URBAN LOCAL (GROUP 1)		
MPH	FROM STA.	TO STA.
25	47+00.00	49+76.19
RTE: SLEEPY HOLLOW RD.	DESIGN SPEED	
FUNCTIONAL CLASS : URBAN LOCAL (GROUP 1)		
MPH	FROM STA.	TO STA.
15	47+50.00	49+70.79
EXCEPTIONS TO DESIGN SPEED		

PAVEMENT LEGEND

1	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2	HOT MIX ASPHALT SURFACE COURSE, TYPE B (200 LBS./S.Y.)
2A	HOT MIX ASPHALT INTERMEDIATE COURSE, TYPE B (200 LBS./S.Y.)
3	CEMENT MODIFIED RECYCLED BASE (12" UNIFORM) - CURING METHOD B**
3A	HOT MIX ASPHALT BASE COURSE, TYPE A (1150 LBS./S.Y.)
4	HOT MIX ASPHALT SURFACE AND/OR INTERMEDIATE COURSE, TYPE E FOR LESS THAN 1.9" AND TYPE B FOR 2.0" OR GREATER (FOR BUILD-UP AND LEVELING) VARIABLE
5	EXISTING ASPHALT PAVEMENT - CEMENT MODIFIED RECYCLED BASE (12" UNIFORM) - CURING METHOD B
5A	EXISTING ASPHALT PAVEMENT

HORIZONTAL 5 0 5 10 FEET
VERTICAL 0 2 FEET

S.C. ROUTE 160	DESIGN SPEED	
MPH	FROM STA.	TO STA.
50	64+70.00	103+62.56
FUNCTIONAL CLASS : URBAN PRINCIPLE ARTERIAL		
EXCEPTIONS TO DESIGN SPEED		

PREPARED BY___ CHK'D BY___ REVIEWED BY___

PAVEMENT DESIGN

APPROVED BY

DATE

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TYPICAL SECTIONS

SCALE: 1"= 5' HORZ. 1"= 1' VERT. 3

STV INCORPORATED No. C03318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CRISTEN 10/12/2022

STV 100 Years STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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10/12/2022

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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	P029536	11149-010	SC 160	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	
12	SHELL & JANE McCAIN TRUST AND KESSLE EQUIPMENT	020-08-01-008	3.920 AC														DB-16077-94, PB D176-1
13	KENNETH MARSHALL SCALLIONS	737-00-00-065	0.978 AC		503 SF (0.012) AC		503 SF (0.012) AC	0.966 AC					YES		YES		DB 15543-72, PB 98-220
14	JAMES & RITA FREED CATER TRUSTEES	736-00-00-026	0.928 AC										YES		YES		DB 14129-228, PB 41-146
15	J. SPRATT WHITE, IV	737-00-00-066	1.123 AC														
16	JAY D., SR.& ROSA G. HARTLEY	737-00-00-072	1.434 AC		2884 SF (0.066) AC		2884 SF (0.066) AC	1.368 AC					YES		YES		DB 4157-207, PB B344-8
17	MATTHEW L. REEVES	736-00-00-143	0.564 AC														DB 12643-159, PB A150-10
18	JOHN W. & LINDA C. STRONG	736-00-00-130	0.502 AC														DB 8648-125, PB 92-841
19	TERRY M. KISSIAH	736-00-00-124	0.745 AC														DB 11909-200, PB 45-95
20	DANNY LEE LINGERFELT	736-00-00-122	0.608 AC			2493 SF (0.057) AC	2493 SF (0.057) AC		0.551 AC								DB 13918-137, PB 84-160
21	SARALYN B. KNOWLES	736-00-00-123	0.546 AC			1415 SF (0.032) AC	1415 SF (0.032) AC		0.514 AC								DB 13951-218, PB A011-6
22	ONE SIXTY EAST, LLC	737-00-00-073	3.620 AC		3372 SF (0.077) AC		3372 SF (0.077) AC	3.543 AC									Temporary Construction Easement of 404 SF for Slopes and Erosion Control
23	ONE SIXTY EAST PHASE II, LLC	737-00-00-074	1.540 AC		8959 SF (0.206) AC		8959 SF (0.206) AC	1.334 AC									Temporary Construction Easement of 582 SF for Slopes and Erosion Control
24	MICHAEL W. CHASE	737-00-00-084	4.868 AC			4087 SF (0.094) AC	4087 SF (0.094) AC		4.774 AC								DB 1462-50, PB A078-9
25	SOMEWHERE OVER THE RAINBOW, LLC	737-00-00-075	1.800 AC		2116 SF (0.049) AC		2116 SF (0.049) AC	1.751 AC									DB 13283.151, PB 20-155
26	ARTHUR BAILEY	737-00-00-201	1.126 AC			2215 SF (0.051) AC	2215 SF (0.051) AC		1.075 AC								DB 15086-238, PB C144-2
27	FOUR CORNERS OF CHARLOTTE, LLC	737-00-00-096	0.477 AC		1875 SF (0.043) AC		1875 SF (0.043) AC	0.434 AC									DB 17404-37, PB 113-832
28	MICHAEL H. DILLARD	737-00-00-083	1.568 AC			3711 SF (0.085) AC	3711 SF (0.085) AC		1.483 AC								DB 15417-122, PB D203-3
29	DAVID A. & CLAUDIA G. GROSS	737-00-00-202	0.891 AC			4165 SF (0.096) AC	4165 SF (0.096) AC		0.795 AC								DB 4729-245, PB C113-7
30	FREDY LUAREZ PAZ	737-00-00-076	0.849 AC		2158 SF (0.050) AC		2158 SF (0.050) AC	0.799 AC									DB 17078-98, PB E268-7
31	LUARA M. O'DONNELL	737-00-00-098	0.451 AC		2505 SF (0.058) AC		2505 SF (0.058) AC	0.393 AC					YES				DB 16681-317, PB 78-383
32	PAUL A. BLACKANN	737-00-00-078	0.985 AC			6399 SF (0.147) AC	6399 SF (0.147) AC		0.838 AC				YES		YES		DB 3270-18, PB 38-140
33	NASER M. ALSABBAH	737-00-00-079	1.071 AC		1402 SF (0.032) AC	3029 SF (0.070) AC	4431 SF (0.102) AC	0.970 AC	0.000 AC						YES		DB 11975-44, PB 38-140
34	RUBY WHITE STRAIT	737-00-00-080	1.364 AC														DB 409-103, PB 38-140
35	BARBARA WHITE MURPHY	737-00-00-081	1.373 AC														DB 409-100, PB 38-140
36	BILLY RAY BURRIS, SR. & MARCHAI BRUCHEY	737-00-00-082	0.961 AC														DB 14963-1, PB 64-74
37	SPRINGLAND ASSOC., L.L.C.	020-08-01-011	348.620 AC		10828 SF (0.249) AC		10828 SF (0.249) AC	348.371 AC					YES		YES		DB 2635-22, PB 103-92
38	ALICE MARIE KIRKPATRICK	737-00-00-062	0.712 AC			2880 SF (0.066) AC	2880 SF (0.066) AC		0.646 AC								Temporary Construction Easement of 3,303 SF for Slopes & Erosion Control
39	RENEE & DENISE WATTS	737-00-00-143	0.883 AC			1570 SF (0.036) AC	1570 SF (0.036) AC		0.847 AC								Temporary Construction Easement of 1,257 SF for Slopes
40	RENEE & DENISE WATTS	737-00-00-143	1.789 AC			2874 SF (0.066) AC	2874 SF (0.066) AC		1.723 AC								Temporary Construction Easement of 2,309 SF for Slopes
41	KENNETH W. MCKINNEY, SR.	737-00-00-077	2.690 AC			3804 SF (0.087) AC	3804 SF (0.087) AC		2.603 AC								TCE of 7,759 SF for Slope and Erosion Control.
42	DAVID LEON BLACKWELL	737-00-00-088	0.565 AC														
43	SARA BLACKWELL MILLWOOD ET. AL.	737-00-00-086	1.920 AC														
44	DONALD S. & YVONNE M. GILES	737-00-00-051	0.849 AC														
45	MARILYN MILLER DUTTON & MARGARET MILLER CO. TRUSTEES	737-00-00-049	7.004 AC														
46	JAMES C. SLOAN	737-00-00-050	10.199 AC														

DATE	TRACT NO.	REMARKS
04/22/19	31	Revised Cut limits and Obtain Area
04/25/19	39 & 40	Added TCE and Removed Slope Permission
05/14/19	31	Revised R/W Limits and Obtrain
05/17/19	38	Added TCE to replace Slope and EC Permission
05/22/19	20	Revised Obtain and Removed Permissions
06/11/19	22 & 23	Added TCE to replace Slope and EC Permission
06/24/19	15	Added TCE to replace EC Permission
06/24/19	41	Added TCE to replace Slope and EC Permission
07/09/19	15	Removed TCE
03/11/20	23	Revised New R/W

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.

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03338

SOUTH CAROLINA REGISTERED LANDSCAPE ARCHITECT No. 22780 CHRISTOPHER E. CARLSEN

10/12/2022

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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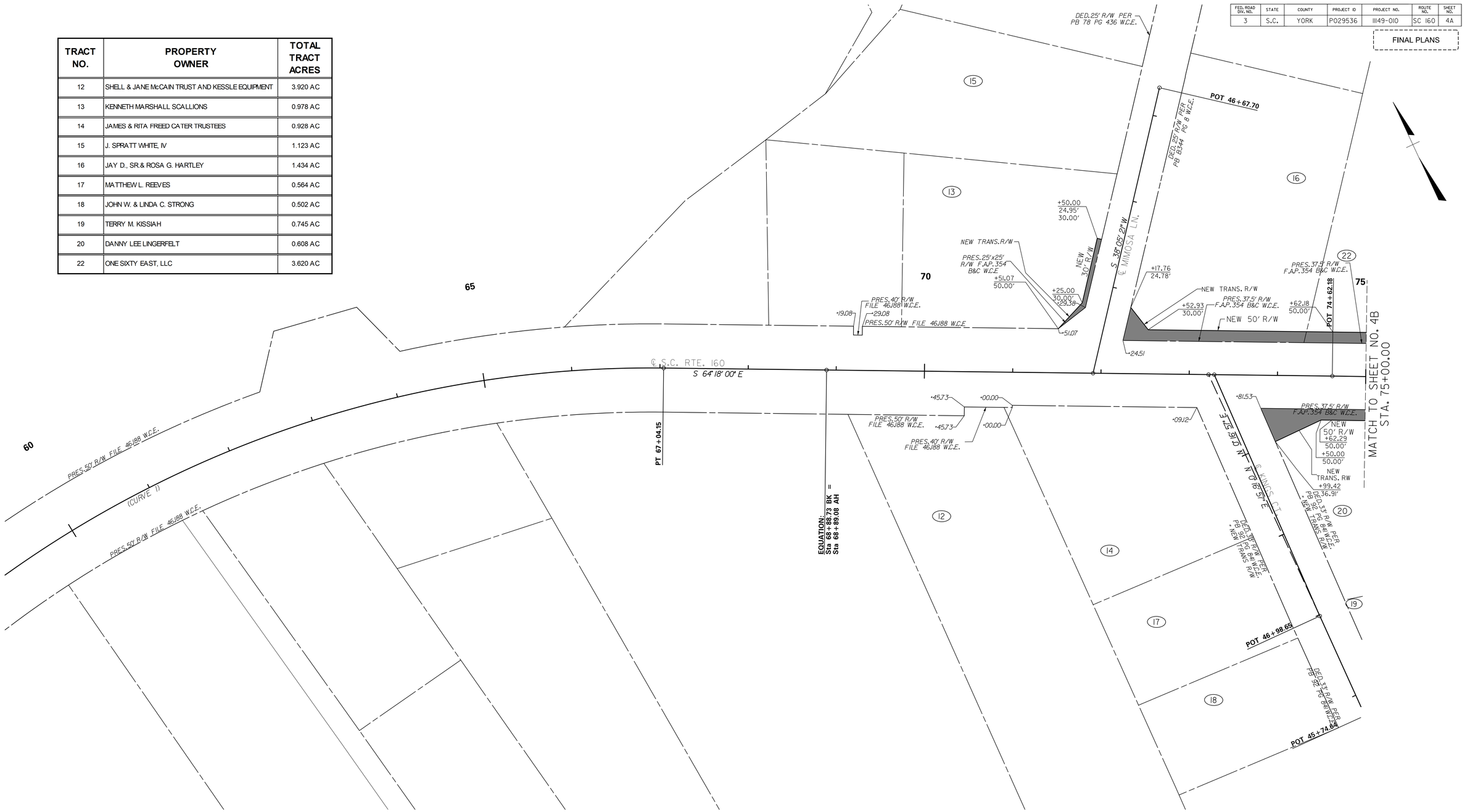
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	4A

FINAL PLANS

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
12	SHELL & JANE McCAIN TRUST AND KESSLE EQUIPMENT	3.920 AC
13	KENNETH MARSHALL SCALLIONS	0.978 AC
14	JAMES & RITA FREED CATER TRUSTEES	0.928 AC
15	J. SPRATT WHITE, IV	1.123 AC
16	JAY D., SR.& ROSA G. HARTLEY	1.434 AC
17	MATTHEW L. REEVES	0.564 AC
18	JOHN W. & LINDA C. STRONG	0.502 AC
19	TERRY M. KISSIAH	0.745 AC
20	DANNY LEE LINGERFELT	0.608 AC
22	ONE SIXTY EAST, LLC	3.620 AC



NEW RIGHT OF WAY

NEW RIGHT OF WAY MEASURED AND STATIONED FROM THE CONSTRUCTION CENTERLINE

EXISTING RIGHT OF WAY MEASURED AND STATIONED FROM THE SURVEY CENTERLINE

RELOCATE KINGS CT. CENTERLINE
STA. 46+98.65 TO STA. 50+00.00

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

SOUTH CAROLINA — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER E. CARLSTEN — 10/12/2022

DocuSigned by: CHRISTOPHER CARLSTEN

50 0 50 100
SCALE FEET

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3	MHC	07/09/19	REMOVED TCE FROM TR 15
2	MHC	06/24/19	ADDED TCE TO TR 15
1	MHC	05/22/19	REVISED OBTAIN AND REMOVED PREMISSIONS ON TRACT 20

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PROPERTY STRIP MAP

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 4A

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10/12/2022

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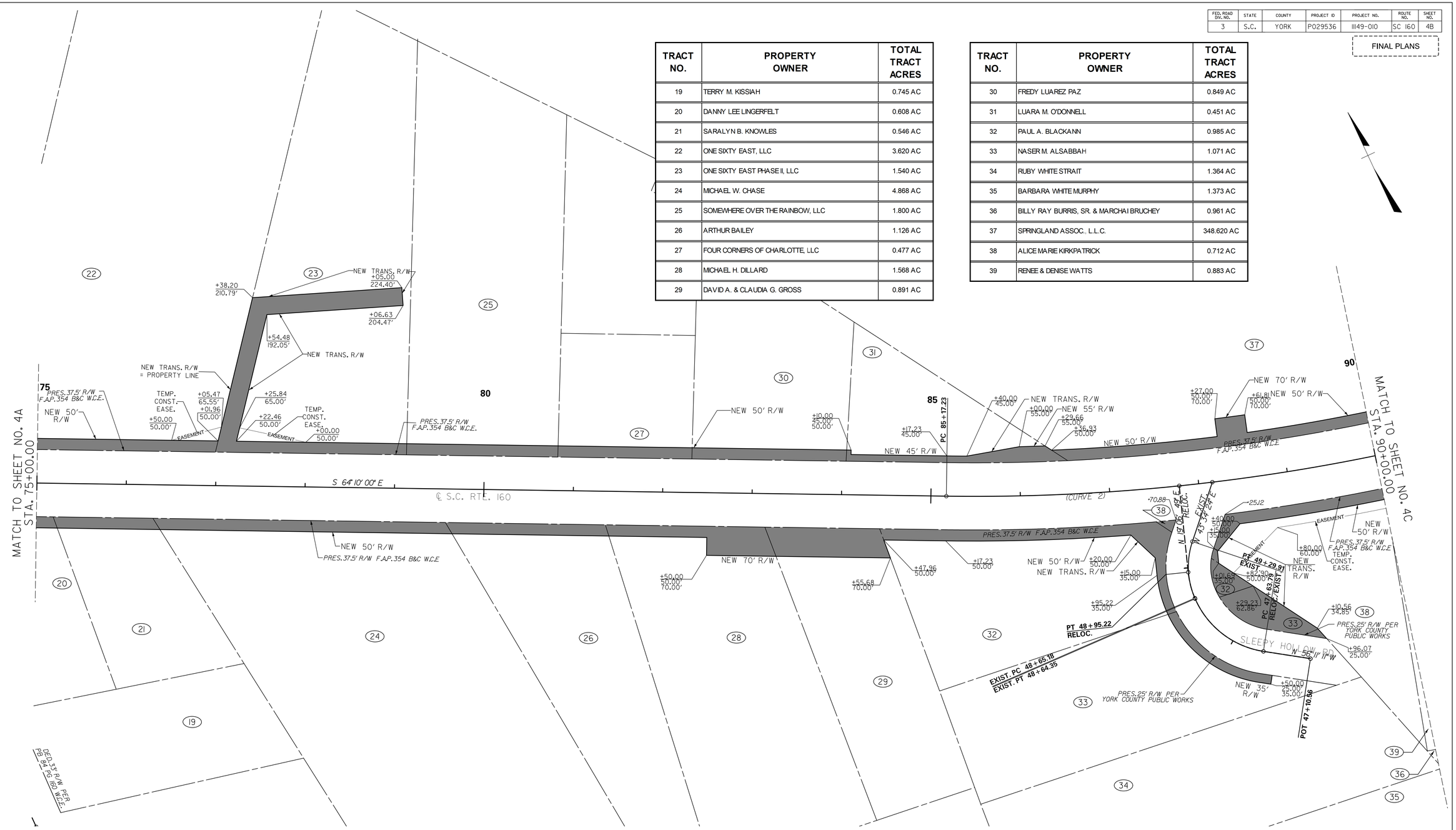
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	4B

FINAL PLANS

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
19	TERRY M. KISSIAH	0.745 AC
20	DANNY LEE LINGERFELT	0.608 AC
21	SARALYN B. KNOWLES	0.546 AC
22	ONE SIXTY EAST, LLC	3.620 AC
23	ONE SIXTY EAST PHASE II, LLC	1.540 AC
24	MICHAEL W. CHASE	4.868 AC
25	SOMEWHERE OVER THE RAINBOW, LLC	1.800 AC
26	ARTHUR BAILEY	1.126 AC
27	FOUR CORNERS OF CHARLOTTE, LLC	0.477 AC
28	MICHAEL H. DILLARD	1.568 AC
29	DAVID A. & CLAUDIA G. GROSS	0.891 AC

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
30	FREDY LUAREZ PAZ	0.849 AC
31	LUARA M. O'DONNELL	0.451 AC
32	PAUL A. BLACKANN	0.985 AC
33	NASER M. ALSABBAH	1.071 AC
34	RUBY WHITE STRAIT	1.364 AC
35	BARBARA WHITE MURPHY	1.373 AC
36	BILLY RAY BURRIS, SR. & MARCHAI BRUCHEY	0.961 AC
37	SPRINGLAND ASSOC., L.L.C.	348.620 AC
38	ALICE MARIE KIRKPATRICK	0.712 AC
39	RENEE & DENISE WATTS	0.883 AC



RELOCATE SLEEPY HOLLOW RD CENTERLINE STA. 47+63.79 TO STA. 49+92.29

NEW RIGHT OF WAY

NEW RIGHT OF WAY MEASURED AND STATIONED FROM THE CONSTRUCTION CENTERLINE

EXISTING RIGHT OF WAY MEASURED AND STATIONED FROM THE SURVEY CENTERLINE

SCALE 50 0 50 100 FEET

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

DocuSigned by: CHRISTOPHER E. CARSTEN — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — 10/12/2022

STV 100 Years — STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6	TGM	03/11/2020	REVISED R/W - TRACT 23
5	MHC	06/11/2019	ADDED TCE TO TRs 22 & 23 TO COVER SLOPE AND EC PERMISSIONS
4	MHC	05/22/19	REVISED OBTAIN AND REMOVE PERMISSION ON TR 20
3	MHC	05/17/19	ADDED TCE TO TRACT 38
2	MHC	05/14/19	REVISED RW LIMITS AND OBTAIN ON TRACT 31
1	MHC	04/22/19	REVISED SLOPE LIMITS AND RW OBTAIN ON TRACT 31

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PROPERTY STRIP MAP

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 4B

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10/12/2022

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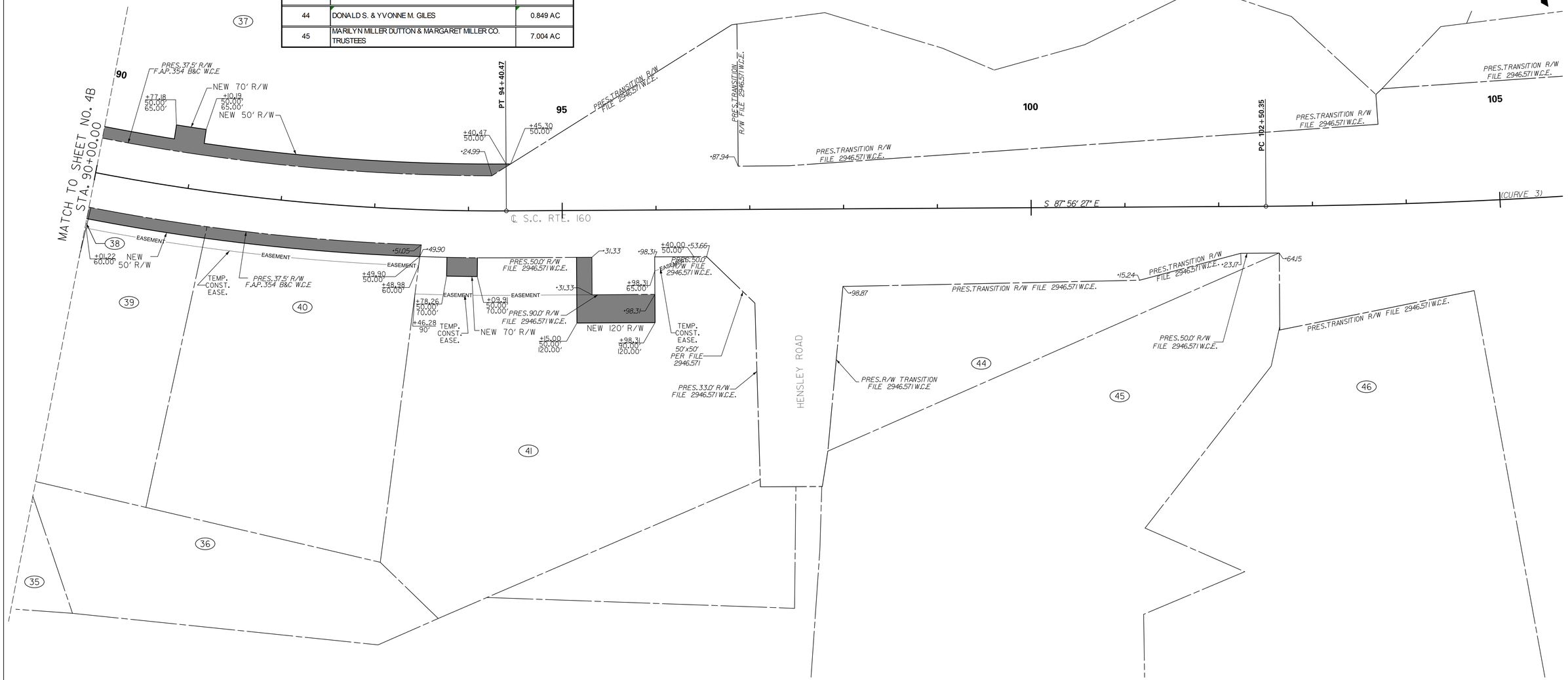
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	4C

FINAL PLANS

TRACT NO.	PROPERTY OWNER	TOTAL TRACT ACRES
35	BARBARA WHITE MURPHY	1.373 AC
36	BILLY RAY BURRIS, SR. & MARCHAI BRUCHEY	0.961 AC
37	SPRINGLAND ASSOC., L.L.C.	348.620 AC
38	ALICE MARIE KIRKPATRICK	0.712 AC
39	RENEE & DENISE WATTS	0.883 AC
40	RENEE & DENISE WATTS	1.789 AC
41	KENNETH W. MCKINNEY, SR.	2.690 AC
44	DONALD S. & YVONNE M. GILES	0.849 AC
45	MARILYN MILLER DUTTON & MARGARET MILLER CO. TRUSTEES	7.004 AC



NEW RIGHT OF WAY

NEW RIGHT OF WAY MEASURED AND STATIONED FROM THE CONSTRUCTION CENTERLINE

EXISTING RIGHT OF WAY MEASURED AND STATIONED FROM THE SURVEY CENTERLINE

SOUTH CAROLINA — STV INCORPORATED NO. C03338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARLSTEN — 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2460 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3	MHC	06/24/19	ADDED TCE ON TRACT 41
2	MHC	05/17/2019	ADDED TCE ON TRACT 38
1	MHC	04/25/19	ADDED TCE ON TRACTS 39 & 40

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PROPERTY STRIP MAP

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 4C

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10/12/2022

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	5

GENERAL CONSTRUCTION NOTES

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
2012000	CLEARING & GRUBBING WITHIN ROADWAY	NEC.	LS	PER CONTRACT DOCUMENTS
2031000	UNCLASSIFIED EXCAVATION	12	CY	FOR EROSION CONTROL
2031000	UNCLASSIFIED EXCAVATION	475	CY	WHERE DIRECTED BY THE ENGINEER
2033000	BORROW EXCAVATION	176	CY	WHERE DIRECTED BY THE ENGINEER
2036020	GEOTEXTILE, SEPARATION	450	SY	FOR BACKFILL OF MUCK EXCAVATION
2037030	GEOGRID STABILIZATION	230	SY	FOR BACKFILL OF MUCK EXCAVATION
2047000	TEMPORARY SHORING WALL	100	LF	WHERE DIRECTED BY THE ENGINEER
2052000	NO. 57 STONE FOR BACKFILL	350	TON	FOR BACKFILL OF MUCK EXCAVATION
2103000	FLOWABLE FILL	100	CY	WHERE DIRECTED BY THE ENGINEER
3050199	GRADED AGGREGATE BASE COURSE	2,645	TON	FOR WIDENING SOIL SUBGRADE PRIOR TO FULL DEPTH RECLAMATION
3069900	MAINTENANCE STONE	296	TON	FOR DRIVEWAYS
3069900	MAINTENANCE STONE	105	TON	WHERE DIRECTED BY THE ENGINEER
4011004	LIQUID ASPHALT BINDER PG64-22	5	TON	WHERE DIRECTED BY THE ENGINEER
4011004	LIQUID ASPHALT BINDER PG64-22	15	TON	FOR DRIVEWAYS
4011004	LIQUID ASPHALT BINDER PG64-22	264	TON	FOR BUILDUP
4011004	LIQUID ASPHALT BINDER PG64-22	22	TON	FOR REMOVAL OF EXIST. PVMT. MARKING
4012120	FULL DEPTH ASPH. PAV. PATCHING 12"UNIF	425	SY	WHERE DIRECTED BY THE ENGINEER
4013200	MILLING EXISTING ASPHALT PAVEMENT 2.0"	850	SY	WHERE DIRECTED BY THE ENGINEER
4013200	MILLING EXISTING ASPHALT PAVEMENT 2.0"	3,345	SY	FOR REMOVAL OF EXIST. PVMT. MARKING
4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	170	SY	WHERE DIRECTED BY THE ENGINEER
4020320	HOT MIX ASPHALT INTERMEDIATE COURSE TYPE B	1,480	TON	FOR BUILDUP OF EXISTING PAVEMENT
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	95	TON	WHERE DIRECTED BY THE ENGINEER
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	405	TON	FOR REMOVAL OF EXIST. PVMT. MARKING
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	1,365	TON	FOR BUILDUP OF EXISTING PAVEMENT
4030320	HOT MIX ASPHALT SURFACE COURSE TYPE B	1,586	TON	FOR BUILDUP OF CMRB
4030360	HOT MIX ASPHALT SURFACE COURSE TYPE E	340	TON	FOR BUILDUP OF EXISTING PAVEMENT
4037221	DRIVEWAY PAVING-SURFACE TYPE C NON-RESURFACING PROJECT	240	TON	FOR DRIVEWAYS
4100100	HIGH PERFORMANCE CHIP SEAL APPLICATION (INCLUDING AGGREGATE)	14,260	SY	FOR ADDL SURFACE TREATMENT WHERE DIRECTED BY THE ENGINEER
4100105	EMULSION FOR HIGH PERFORMANCE CHIP SEAL	5,704	GAL	FOR ADDL SURFACE TREATMENT WHERE DIRECTED BY THE ENGINEER
6021120	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	304	SF	FOR TRAFFIC CONTROL
605212A	ANCHOR KIT - PORT. ATTENUATOR(TEST LEVEL 2)	4	EA	FOR TRAFFIC CONTROL
6092100	TEMPORARY CLEAR PAVEMENT MARKERS MONO-DIR.- 4"X4"	12	EA	FOR TRAFFIC CONTROL
6092155	TEMPORARY YELLOW PAVEMENT MARKERS BI-DIR.- 4"X4"	516	EA	FOR TRAFFIC CONTROL
6250005	4" WHITE BROKEN LINES -(GAPS EXCLUDED)-FAST DRY PAINT	416	LF	FOR TRAFFIC CONTROL
6250010	4" WHITE SOLID LINES (PVT. EDGE LINES)-FAST DRY PAINT	20,881	LF	FOR TRAFFIC CONTROL
6250025	24" WHITE SOLID LINES (STOP/DIAGONAL LINES)-FAST DRY PAINT	409	LF	FOR TRAFFIC CONTROL
6250105	4" YELLOW BROKEN LINES(GAPS EXC) - FAST DRY PAINT	3,558	LF	FOR TRAFFIC CONTROL
6250110	4"YELLOW SOLID LINE(PVT.EDGE&NO PASSING ZONE)-FAST DRY PAINT	23,407	LF	FOR TRAFFIC CONTROL
6770389	FURNISH & INSTALL NO. 14 COPPER WIRE, 4 CONDUCTOR - GRAY	882	LF	FOR REPLACMENT OF EXISTING SIGNAL LOOPS
6770394	FURNISH & INSTALL NO. 14 COPPER WIRE, 8 CONDUCTOR (GRAY)	707	LF	FOR REPLACMENT OF EXISTING SIGNAL LOOPS
6770413	FURNISH & INSTL NO. 14 COPPER WIRE,1-CONDUCTOR FOR LOOP WIRE	1,989	LF	FOR REPLACMENT OF EXISTING SIGNAL LOOPS
6780495	SAWCUT FOR LOOP DETECTOR	687	LF	FOR REPLACMENT OF EXISTING SIGNAL LOOPS
6800518	F&I-13"X24"X18"D.ELEC.FLUSH UNDGRD.ENCLOS-(STR.POLY.CONC.)HD	2	EA	FOR REPLACMENT OF EXISTING SIGNAL LOOPS
6885992	TEMPORARY ADJUSTMENT OF TRAFFIC SIGNAL EQUIPMENT	NEC.	LS	FOR TRAFFIC CONTROL WHERE DIRECTED BY THE ENGINEER
8041010	RIP-RAP (CLASS A)	380	TON	FOR EROSION CONTROL
8041020	RIP-RAP (CLASS B)	25	TON	WHERE DIRECTED BY THE ENGINEER
8041020	RIP-RAP (CLASS B)	302	TON	FOR EROSION CONTROL
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	45	SY	WHERE DIRECTED BY THE ENGINEER
8042800	GEOTEXTILE FABRIC FOR EROSION CONTROL UNDER RIPRAP (CLASS 2)	726	SY	FOR EROSION CONTROL
8091010	RIGHT OF WAY MARKER(REBAR AND CAP)	63	EA	PER SCDOT STANDARDS
8091050	RIGHT OF WAY PLAT	NEC.	LS	PER SCDOT STANDARDS

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

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	7.848	ACRE	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8100200	TEMPORARY COVER	3.924	ACRE	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8101100	SELECT MATERIAL	3,170	CY	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8104005	FERTILIZER (NITROGEN)	784.8	LB	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8104010	FERTILIZER (PHOSPHORIC ACID)	784.8	LB	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8104015	FERTILIZER (POTASH)	784.8	LB	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8105005	AGRICULTURAL GRANULAR LIME	15,695.8	LB	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8109050	SELECTIVE WATERING	135,750	GAL	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8109901	MOWING	23.544	ACRE	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8151101	TURF REINFORCEMENT MATTING (TRM) TYPE 1	1.33	MSY	FOR EROSION CONTROL
8151111	TEMPORARY EROSION CONTROL BLANKET (CLASS A)	16.611	MSY	FOR EROSION CONTROL
8151203	HYDRAULIC EROSION CONTROL PRODUCT (HECP) - TYPE 3	15.696	ACRE	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
8152004	INLET STRUCTURE FILTER - TYPE F (WEIGHTED)	40	LF	FOR EROSION CONTROL
8153000	SILT FENCE	3,500	LF	FOR EROSION CONTROL
8153090	REPLACE/REPAIR SILT FENCE	350	LF	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8154010	CLEANING SILT BASINS	572	CY	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8154050	REMOVAL OF SILT RETAINED BY SILT FENCE	875	LF	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER
8154155	INLET FILTER CLEANING	13	EA	FOR EROSION CONTROL
8156210	INLET STRUCTURE FILTER - TYPE B	13	EA	FOR EROSION CONTROL
8156410	AGGREGATE NO.5 OR 57 FOR EROSION CONTROL	134	TON	FOR EROSION CONTROL
8156490	STABILIZED CONSTRUCTION ENTRANCE	550	SY	FOR EROSION CONTROL WHERE DIRECTED BY ENGINEER

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

DocuSigned by: SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 32542 — THOMAS G. MASTILLO — 5/18/2023

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

GENERAL CONSTRUCTION NOTES

SCALE NTS S.C. ROUTE 160 DWG. NO. 5

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5/16/2023

PROLINE.DGN

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S.C. ROUTE 160 (HIGHWAY 160 E) CONSTRUCTION CENTERLINE FROM FILE NO. 46188 FORT MILL SOUTHERN BYPASS P2

Beginning chain REL160 description

Point 500			N 1,155,230.9457	E	2,023,934.7272	Sta 50+00.00
Course from 500 to PC REL160-1 N 75° 08' 12.22" E Dist 815.3623						
		Curve Data				
Curve REL160-1						
P.I. Station		62+79.30	N		1,155,559.1027	E 2,025,171.2211
Delta	=	40° 33' 48.04"	(RT)			
Degree	=	4° 33' 50.00"				
Tangent	=	463.9359				
Length	=	888.7891				
Radius	=	1,255.4157				
External	=	82.9808				
Long Chord	=	870.3436				
Mid. Ord.	=	77.8359				
P.C. Station		58+15.36	N		1,155,440.0970	E 2,024,722.8081
P.T. Station		67+04.15	N		1,155,357.9122	E 2,025,589.2628
C.C.			N		1,154,226.6866	E 2,025,044.8389
Back	= N	75° 08' 12.22"	E			
Ahead	= S	64° 17' 59.74"	E			
Chord Bear	= S	84° 34' 53.76"	E			
Course from PT REL160-1 to 501 S 64° 17' 59.74" E Dist 184.5762						
Equation: Sta 68+88.73 (BK) = Sta 68+89.08 (AH)					End	Region 1 / Region 2
Point 501			N 1,155,277.8688	E	2,025,755.5801	Sta 68+89.08
Course from 501 to 502 S 64° 17' 59.74" E Dist 573.0966						
Point 502			N 1,155,029.3396	E	2,026,271.9839	Sta 74+62.18
Course from 502 to PC REL160-2 S 64° 10' 00.16" E Dist 1,055.0534						
		Curve Data				
Curve REL160-2						
P.I. Station		89+85.59	N		1,154,365.5068	E 2,027,643.1544
Delta	=	23° 46' 27.15"	(LT)			
Degree	=	2° 34' 30.33"				
Tangent	=	468.3580				
Length	=	923.2375				
Radius	=	2,225.0000				
External	=	48.7599				
Long Chord	=	916.6285				
Mid. Ord.	=	47.7143				
P.C. Station		85+17.23	N		1,154,569.5957	E 2,027,221.6014
P.T. Station		94+40.47	N		1,154,348.6787	E 2,028,111.2100
C.C.			N		1,156,572.2420	E 2,028,191.1543
Back	= S	64° 10' 00.16"	E			
Ahead	= S	87° 56' 27.31"	E			
Chord Bear	= S	76° 03' 13.73"	E			
DS = 50 MPH						
eMAX = 6%						
e = 4.08%						
PC-LG% = 0.50%						
PT-LG% = 0.50%						
Course from PT REL160-2 to PC REL160-3 S 87° 56' 27.31" E Dist 809.8773						
		Curve Data				
Curve REL160-3						
P.I. Station		107+34.71	N		1,154,302.1763	E 2,029,404.6219
Delta	=	9° 39' 51.93"	(LT)			
Degree	=	1° 00' 00.00"				
Tangent	=	484.3703				
Length	=	966.4426				
Radius	=	5,729.5780				
External	=	20.4375				
Long Chord	=	965.2973				
Mid. Ord.	=	20.3649				
P.C. Station		102+50.34	N		1,154,319.5798	E 2,028,920.5644
P.T. Station		112+16.78	N		1,154,366.2822	E 2,029,884.7312
C.C.			N		1,160,045.4582	E 2,029,126.4282
Back	= S	87° 56' 27.31"	E			
Ahead	= N	82° 23' 40.76"	E			
Chord Bear	= N	87° 13' 36.73"	E			
Course from PT REL160-3 to 503 N 82° 23' 40.76" E Dist 197.6415						
Point 503			N 1,154,392.4398	E	2,030,080.6341	Sta 114+14.43

Ending chain REL160 description

SLEEPY HOLLOW ROAD CONSTRUCTION CENTERLINE

Beginning chain SLEEPYREL description

Point 600			N 1,154,232.7319	E	2,027,513.8781	Sta 47+10.56
Course from 600 to PC SLEEPYREL-1 N 56° 11' 11.26" W Dist 53.2349						
		Curve Data				
Curve SLEEPYREL-1						
P.I. Station		48+40.94	N		1,154,305.2898	E 2,027,405.5477
Delta	=	75° 18' 00.33"	(RT)			
Degree	=	57° 17' 44.81"				
Tangent	=	77.1496				
Length	=	131.4235				
Radius	=	100.0000				
External	=	26.3015				
Long Chord	=	122.1674				
Mid. Ord.	=	20.8244				
P.C. Station		47+63.79	N		1,154,262.3567	E 2,027,469.6477
P.T. Station		48+95.22	N		1,154,378.1863	E 2,027,430.8098
C.C.			N		1,154,345.4420	E 2,027,525.2969
Back	= N	56° 11' 11.26"	W			
Ahead	= N	19° 06' 49.07"	E			
Chord Bear	= N	18° 32' 11.10"	W			
DS = 15 MPH						
eMAX = 4%						
e = 3.8%						
PC-LG% = 0.74%						
PT-LG% = 0.74%						
Course from PT SLEEPYREL-1 to 601 N 19° 06' 49.07" E Dist 97.0690						
Point 601			N 1,154,469.9039	E	2,027,462.5943	Sta 49+92.29

Ending chain SLEEPYREL description

SURVEY S.C. ROUTE 160 (HIGHWAY 160 E) CENTERLINE (FOR INFORMATION ONLY)

Beginning chain EX160 description

Point 500			N 1,155,230.9457	E	2,023,934.7272	Sta 50+00.00
Course from 500 to PC EX160-1 N 75° 08' 12.22" E Dist 812.4844						
		Curve Data				
Curve EX160-1						
P.I. Station		62+93.55	N		1,155,562.7591	E 2,025,184.9985
Delta	=	41° 23' 46.11"	(RT)			
Degree	=	4° 30' 00.00"				
Tangent	=	481.0682				
Length	=	919.9143				
Radius	=	1,273.2395				
External	=	87.8503				
Long Chord	=	900.0361				
Mid. Ord.	=	82.1801				
P.C. Station		58+12.48	N		1,155,439.3588	E 2,024,720.0265
P.T. Station		67+32.40	N		1,155,347.8606	E 2,025,615.3997
C.C.			N		1,154,208.7209	E 2,025,046.6293
Back	= N	75° 08' 12.22"	E			
Ahead	= S	63° 28' 01.66"	E			
Chord Bear	= S	84° 09' 54.72"	E			
Course from PT EX160-1 to 501 S 63° 28' 01.66" E Dist 156.6825						
Point 501			N 1,155,277.8688	E	2,025,755.5801	Sta 68+89.08
Course from 501 to 502 S 64° 17' 59.74" E Dist 573.0966						
Point 502			N 1,155,029.3396	E	2,026,271.9839	Sta 74+62.18
Course from 502 to PC EX160-2 S 64° 10' 00.16" E Dist 1,055.0534						
		Curve Data				
Curve EX160-2						
P.I. Station		89+85.59	N		1,154,365.5068	E 2,027,643.1544
Delta	=	23° 46' 27.15"	(LT)			
Degree	=	2° 34' 30.33"				
Tangent	=	468.3580				
Length	=	923.2375				
Radius	=	2,225.0000				
External	=	48.7599				
Long Chord	=	916.6285				
Mid. Ord.	=	47.7143				
P.C. Station		85+17.23	N		1,154,569.5957	E 2,027,221.6014
P.T. Station		94+40.47	N		1,154,348.6787	E 2,028,111.2100
C.C.			N		1,156,572.2420	E 2,028,191.1543
Back	= S	64° 10' 00.16"	E			
Ahead	= S	87° 56' 27.31"	E			
Chord Bear	= S	76° 03' 13.73"	E			
Course from PT EX160-2 to PC EX160-3 S 87° 56' 27.31" E Dist 809.8773						
		Curve Data				
Curve EX160-3						
P.I. Station		107+34.72	N		1,154,302.1763	E 2,029,404.6219
Delta	=	9° 39' 51.93"	(LT)			
Degree	=	1° 00' 00.00"				
Tangent	=	484.3703				
Length	=	966.4426				
Radius	=	5,729.5780				
External	=	20.4375				
Long Chord	=	965.2973				
Mid. Ord.	=	20.3649				
P.C. Station		102+50.35	N		1,154,319.5798	E 2,028,920.5644
P.T. Station		112+16.79	N		1,154,366.2822	E 2,029,884.7312
C.C.			N		1,160,045.4582	E 2,029,126.4282
Back	= S	87° 56' 27.31"	E			
Ahead	= N	82° 23' 40.76"	E			
Chord Bear	= N	87° 13' 36.73"	E			
Course from PT EX160-3 to 503 N 82° 23' 40.76" E Dist 197.6415						
Point 503			N 1,154,392.4398	E	2,030,080.6341	Sta 114+14.43

Ending chain EX160 description

MIMOSA LANE CONSTRUCTION CENTERLINE

Beginning chain MIMOSA description

Point 570			N 1,155,408.4425	E	2,026,232.6816	Sta 46+67.70
Course from 570 to 571 S 38° 05' 21.30" W Dist 332.2951						
Point 571			N 1,155,146.9094	E	2,026,027.6927	Sta 50+00.00

Ending chain MIMOSA description

KINGS COURT CONSTRUCTION CENTERLINE

Beginning chain KING description

Point 573			N 1,154,788.8104	E	2,026,144.1345	Sta 46+98.65
Course from 573 to 572 N 0° 16' 56.80" E Dist 301.3479						
Point 572			N 1,155,090.1546	E	2,026,145.6201	Sta 50+00.00

Ending chain KING description

EXISTING SLEEPY HOLLOW ROAD CENTERLINE (FOR RW ONLY)

Beginning chain SLEEPY description

Point 220			N 1,154,232.7319	E	2,027,513.8781	Sta 47+10.56
Course from 220 to PC EY4C2 N 56° 11' 11.26" W Dist 53.2349						
		Curve Data				
Curve EY4C2						
P.I. Station		48+18.79	N		1,154,292.9596	E 2,027,423.9571
Delta	=	57° 36' 53.27"	(RT)			
Degree	=	57° 17' 44.81"				
Tangent	=	54.9924				
Length	=	100.5570				
Radius	=	100.0000				
External	=	14.1235				
Long Chord	=	96.3736				
Mid. Ord.	=	12.3756				
P.C. Station		47+63.79	N		1,154,262.3567	E 2,027,469.6477
P.T. Station		48+64.35	N		1,154,347.9349	E 2,027,425.3280
C.C.			N		1,154,345.4420	E 2,027,525.2969
Back	= N	56° 11' 11.26"	W			
Ahead	= N	1° 25' 42.51"	E			
Chord Bear	= N	27° 22' 44.37"	W			
Course from PT EY4C2 to PC EY4C1 N 1° 25' 42.51" E Dist 0.8319						
		Curve Data				
Curve EY4C1						
P.I. Station		48+99.09	N		1,154,382.6638	E 2,027,426.1940
Delta	=	42° 08' 41.79"	(RT)			
Degree	=	65° 06' 31.83"				
Tangent	=	33.9078				
Length	=	64.7300				
Radius	=	88.0000				
External	=	6.3066				
Long Chord	=	63.2805				
Mid. Ord.	=	5.8849				
P.C. Station		48+65.18	N		1,154,348.7665	E 2,027,425.3487
P.T. Station		49+29.91	N		1,154,407.2297	E 2,027,449.5661
C.C.			N		1,154,346.5728	E 2,027,513.3214
Back	= N	1° 25' 42.51"	E			
Ahead	= N	43° 34' 24.30"	E			
Chord Bear	= N	22° 30' 03.41"	E			
Course from PT EY4C1 to 217 N 43° 34' 24.30" E Dist 70.0867						
Point 217			N 1,154,458.0070	E	2,027,497.8757	Sta 50+00.00

Ending chain SLEEPY description

RELOCATE SLEEPY HOLLOW RD CENTERLINE STA. 47+63.79 TO STA. 49+92.29

RELOCATE KINGS CT. CENTERLINE STA. 46+98.65 TO STA. 50+00.00

FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	P029536	11149-010	SC 160	5A

GENERAL INFORMATION

CONTROL SURVEY SUMMARY (PROVIDED BY YORK COUNTY)

VERTICAL - NORTH AMERICAN VERTICAL DATUM - 1988 (NAVD 88)

HORIZONTAL - NORTH AMERICAN DATUM - 1983 (NAD 83)

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "15-3" WITH NAD 1983 STATE PLANE GRID COORDINATES OF NORTHING: 1155050.138000(ft) EASTING: 2026190.971000(ft)

AVERAGE COMBINED GRID FACTOR (GROUND TO GRID) - 1.00003892

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES THE GRID BEARING AND LOCALIZED GROUND DISTANCE FROM "15-3" TO "15-2" IS S 88° 46' 44.2" W & 3075.6704'

LEVEL 2 CONTROL POINTS (BL & BY) - 24" REBAR AND CAP UNLESS OTHERWISE NOTED.

SURVEY CONTROL POINTS

BL-101
ELEVATION = 635.130
N 1155176.171
STA. = OFF CHAIN
RELOC. SC 160
E 2023831.991
OFFSET = 26.59 RT

BL-501
ELEVATION = 623.482
N 1155426.432
STA. = 56+36.85
RELOC. SC 160
E 2024541.747
OFFSET = 33.24 LT

BL-102
ELEVATION = 621.400
N 1155496.081
STA. = 63+89.72
RELOC. SC 160
E 2025299.640
OFFSET = 39.30 LT

BL-112
ELEVATION = 614.295
N 1155182.261
STA. = 71+75.52
RELOC. SC 160
E 2026027.447
OFFSET = 31.75 LT

BL-503
ELEVATION = 612.070
N 1155050.138
STA. = 73+80.16
RELOC. SC 160
E 2026190.971
OFFSET = 16.39 RT

BL-504
ELEVATION = 572.540
N 1154640.534
STA. = 84+10.82
RELOC. SC 160
E 2027137.719
OFFSET = 27.30 LT

BL-104
ELEVATION = 557.905
N 1154445.493
STA. = 87+76.41
RELOC. SC 160
E 2027452.240
OFFSET = 26.46 RT

BL-105
ELEVATION = 520.895
N 1154315.180
STA. = 96+80.65
RELOC. SC 160
E 2028350.342
OFFSET = 24.89 RT

BL-106
ELEVATION = 519.716
N 1154342.119
STA. = 103+49.74
RELOC. SC 160
E 2029020.385
OFFSET = 25.25 LT

DocuSigned by: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. ARNOLD 10/12/2022

SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

STV 100 Years
STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
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1			

PREPARED BY MHC CHK'D BY RRS REVIEWED BY SSW

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

REFERENCE DATA SHEET

SCALE 1"=1' S.C. ROUTE 160 DWG. NO. 5A

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10/12/2022

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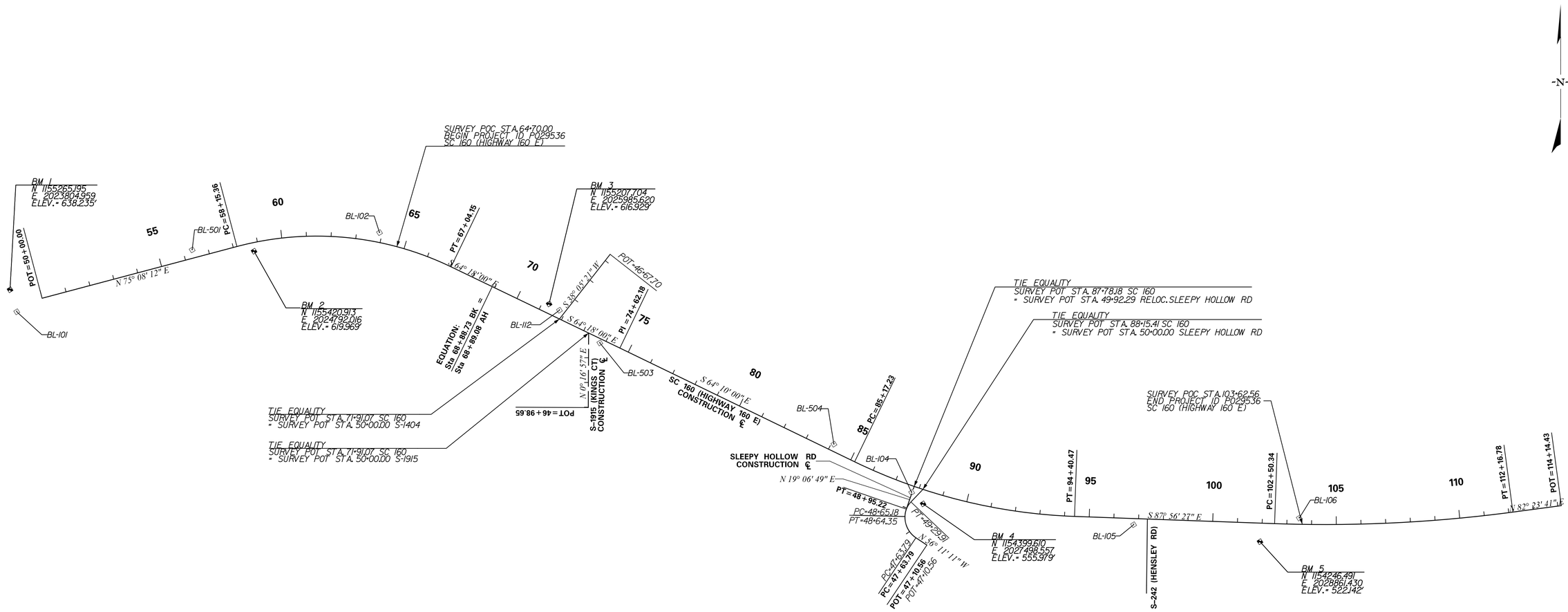
FINAL PLANS	FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
	3	S.C.	YORK	P029536	11149-010	SC 160	5B



RELOCATE SLEEPY HOLLOW RD
CENTERLINE STA. 47+63.79 TO STA. 49+92.29

RELOCATE KINGS CT. CENTERLINE
STA. 46+98.65 TO STA. 50+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

Christopher E. Catoen
No. 22780
10/12/2022

200 0 200 400
scale feet

STV 100 Years
STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
STAKEOUT SHEET

SCALE 1"=200' S.C. ROUTE 160 DWG. NO. 5B

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10/12/2022

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	6

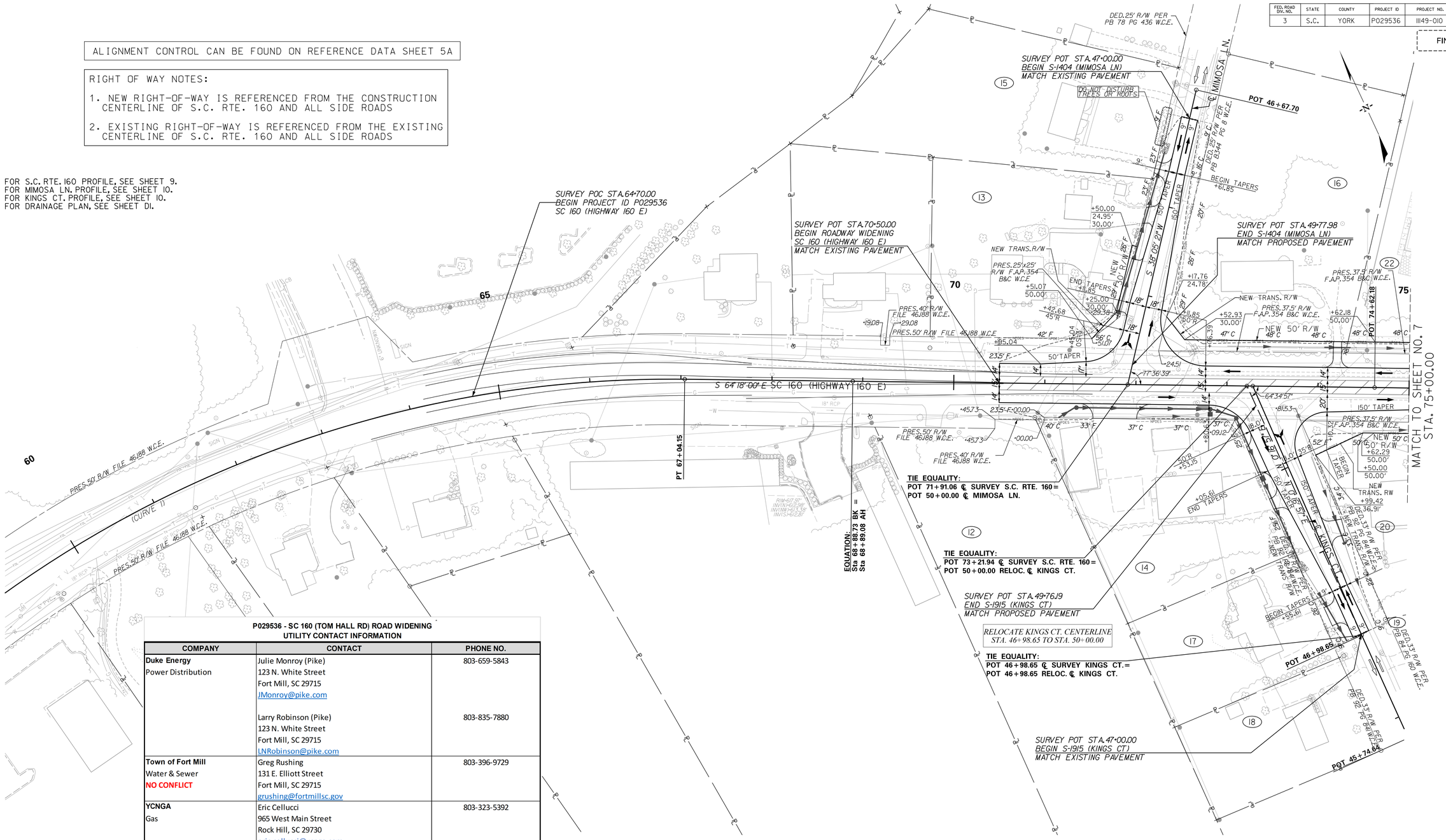
FINAL PLANS

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

RIGHT OF WAY NOTES:

1. NEW RIGHT-OF-WAY IS REFERENCED FROM THE CONSTRUCTION CENTERLINE OF S.C. RTE. 160 AND ALL SIDE ROADS
2. EXISTING RIGHT-OF-WAY IS REFERENCED FROM THE EXISTING CENTERLINE OF S.C. RTE. 160 AND ALL SIDE ROADS

FOR S.C. RTE. 160 PROFILE, SEE SHEET 9.
FOR MIMOSA LN. PROFILE, SEE SHEET 10.
FOR KINGS CT. PROFILE, SEE SHEET 10.
FOR DRAINAGE PLAN, SEE SHEET 01.



P029536 - SC 160 (TOM HALL RD) ROAD WIDENING
UTILITY CONTACT INFORMATION

COMPANY	CONTACT	PHONE NO.
Duke Energy Power Distribution	Julie Monroy (Pike) 123 N. White Street Fort Mill, SC 29715 JMonroy@pike.com Larry Robinson (Pike) 123 N. White Street Fort Mill, SC 29715 LNRobinson@pike.com	803-659-5843 803-835-7880
Town of Fort Mill Water & Sewer **NO CONFLICT**	Greg Rushing 131 E. Elliott Street Fort Mill, SC 29715 grushing@fortmillsc.gov	803-396-9729
YCNGA Gas	Eric Cellucci 965 West Main Street Rock Hill, SC 29730 eric.cellucci@ycnga.com	803-323-5392
COMPANY	**CONTACT**	**PHONE NO.**
Comporium Telephone	Eric Kirkland 471 Lakeshore Parkway Rock Hill, SC 29730 eric.kirkland@comporium.com	803-326-6109
Charter/Spectrum CATV	Neal Barker 3140 West Arrowood Road Charlotte, NC 28273 neal.barker@charter.com	704-671-6103

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

Docusigned by: CAROLINA — CHRISTOPHER E. KLEIN — No. 22780 — 10/12/2022

50 0 50 100
SCALE FEET

STV 100 Years — STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3	MHC	07/09/19	REMOVED TCE FROM TRACT 15
2	MHC	06/24/19	ADDED TCE TO TRACT 15
1	MHC	05/22/19	REVISED OBTAIN AND REMOVED PREMISSIONS ON TRACT 20

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

ROADWAY PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 6

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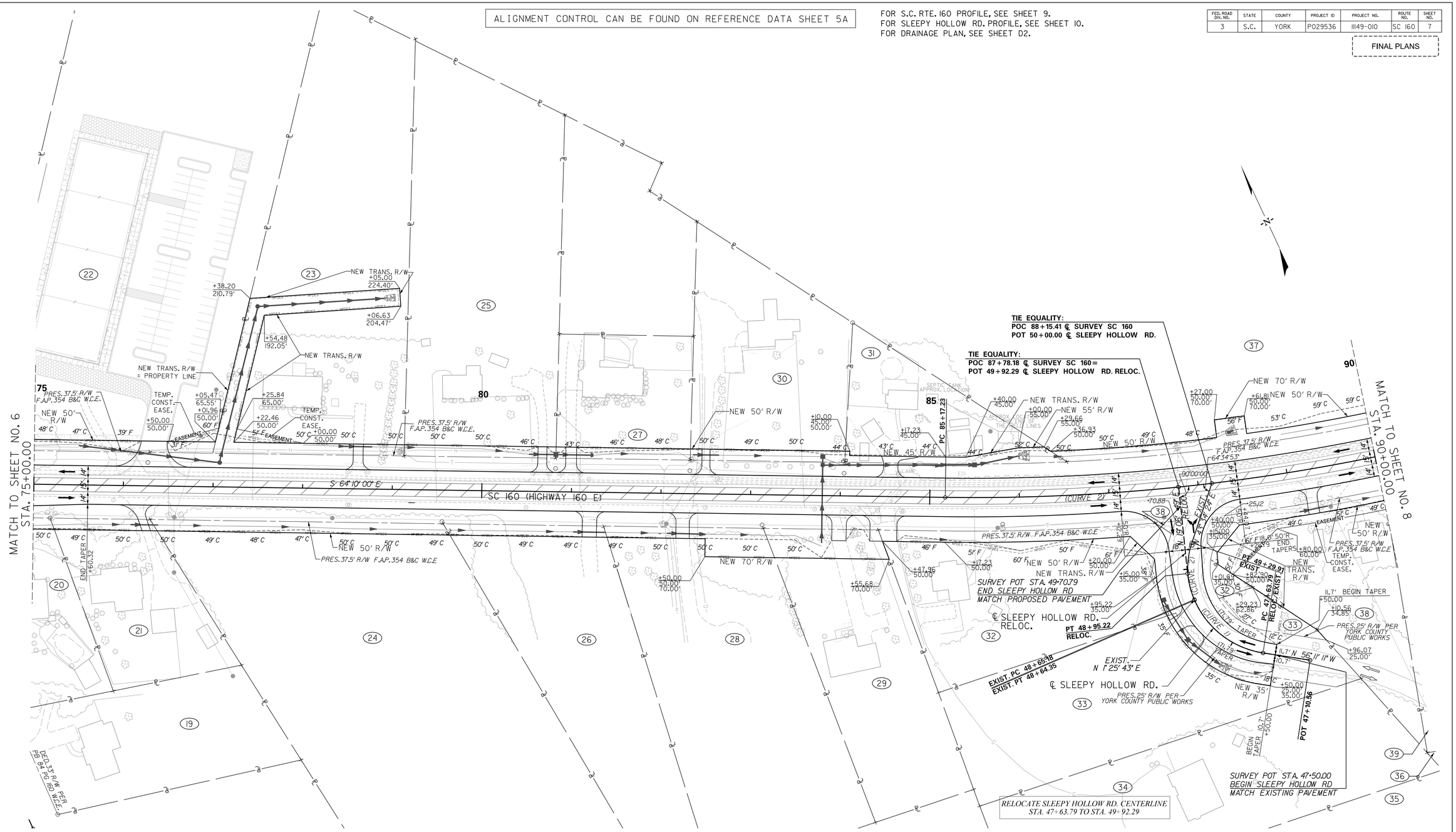
ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

FOR S.C. RTE. 160 PROFILE, SEE SHEET 9.
FOR SLEEPY HOLLOW RD. PROFILE, SEE SHEET 10.
FOR DRAINAGE PLAN, SEE SHEET D2.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	7

FINAL PLANS



50 0 50 100
SCALE FEET

STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

CATHER E. CARLSTEN — No. 22780 — 10/12/2022

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6	TGM	03/11/2020	REVISED NEW R/W - TRACT 23
5	MHC	05/22/19	ADDED TCE TO TRs 22 & 23 TO COVER SLOPE & EC PERMISSIONS
4	MHC	05/22/19	REVISED OBTAIN AND REMOVE PERMISSION ON TR 20
3	MHC	05/17/19	ADDED TCE TO TRACT 38
2	MHC	05/14/19	REVISED RW LIMITS AND OBTAIN ON TRACT 31
1	MHC	04/22/19	REVISED SLOPE LIMITS AND RW OBTAIN ON TRACT 31

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

ROADWAY PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 7

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PROLINE.DGN

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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

FOR S.C. RTE. 160 PROFILE, SEE SHEET 9.
FOR DRAINAGE SHEET, SEE SHEET D3.

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	8

FINAL PLANS

-N-

MATCH TO SHEET NO. 7
STA. 90+00.00

INSTALL 387.5 LF MGS3 GUARDRAIL
INSTALL TYPE MT3 LEADING END TREATMENT
INSTALL TYPE MB END TREATMENT

REMOVE EXISTING GUARDRAIL

SURVEY POT STA. 97+10.00
END ROADWAY WIDENING
BEGIN MILL AND RESURFACE
SC 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT

SURVEY POC STA. 103+62.56
END PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

SC 160 (HIGHWAY 160 E)

(CURVE 2)

(CURVE 3)

S 87° 56' 27" E

PT 94+40.47

PC 102+50.35

RETAIN EX GR

PRES. 37.5' R/W
F.A.P. 354 B&C W.C.E

NEW 70' R/W

NEW 50' R/W

PRES. TRANSITION R/W
FILE 2946.571 W.C.E.

PRES. TRANSITION
R/W FILE 2946.571 W.C.E.

BEGIN TAPER +10.00

END TAPERS +10.00

200' TAPER

Wetlands

TEMP. CONST. EASE.

PRES. 50.0' R/W
FILE 2946.571 W.C.E.

PRES. 90.0' R/W
FILE 2946.571 W.C.E.

NEW 120' R/W

50'x50' PER FILE 2946.571

PRES. 33.0' R/W
FILE 2946.571 W.C.E.

PRES. R/W TRANSITION
FILE 2946.571 W.C.E

INSTALL 250 LF MGS3 GUARDRAIL
INSTALL TYPE MT3 LEADING END TREATMENT
INSTALL TYPE MB END TREATMENT

REMOVE EXISTING GUARDRAIL

APPROX. LOCATION OF BENT

MILL & RESURFACE

SCALE 50 0 50 100 FEET

STV INCORPORATED No. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA No. 22780 REGISTERED LANDSCAPE ARCHITECT CHRISTOPHER E. CLOSTEN 10/12/2022

STV 100 Years STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3	MHC	06/24/19	ADDED TCE TO TRACT 41
2	MHC	05/17/19	ADDED TCE TO TRACT 38
1	MHC	04/25/19	ADDED TCE TO TRACTS 39 & 40

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

ROADWAY PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. 8

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10/12/2022

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FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	9

STV 100 Years
STV Incorporated
250 MAL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

NOTE:
SURVEY POC STA 64+70.00
BEGIN PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

SURVEY POT STA 70+50.00
BEGIN ROADWAY WIDENING
S.C. RTE. 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT
ELEV = 621.14

SURVEY STA 71+00.00
BEGIN ROADWAY PROFILE
MATCH EXISTING PAVEMENT
ELEV = 620.00

S.C. RTE. 160 (HIGHWAY 160 E)

STA. 70+50.00 TO STA. 97+10.00

UNCLASSIFIED	= 4694 CY.		
BORROW	= 9867 CY.		
EXC.	= 4694 CY.	EMB.	= 7590 CY.
BOR.	= 9867 CY.	+30%	= 2277 CY.
		WASTE	= 4694 CY.
SUBTOTAL	= 14561 CY.	SUBTOTAL	= 14561 CY.
LESS	= 9867 CY.	LESS	= 9867 CY.
TOTAL	= 4694 CY.	TOTAL	= 4694 CY.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE SHEET 5A

-1.692%
-4.982%
620.00 VPC (+00)
585' V.C.
600.48 VPT (+85.48)
VPI = 73+92.50
Elev. = 615.05
K = 178
DS > 50 MPH
FINISHED GRADE
EXIST. GROUND
592.26 VPC (+50)
500' V.C.
573.51 VPT (+50)
VPI = 81+00.00
Elev. = 579.80
K = 203
DS > 50mph
-4.982%
-2.515%
PROPOSED 24" CROSS LINE

621.14 619.97 620.00 618.83 619.08 617.66 618.03 616.48 616.83 615.19 615.49 613.73 614.01 612.11 612.39 610.30 610.63 608.32 608.73 606.16 606.69 603.83 604.51 601.38 602.19 598.96 599.73 596.56 597.24 594.09 594.75 591.76 592.26 589.37 589.83 587.10 587.52 584.91 585.34 582.86 583.28 581.01 581.34 579.24 579.53 577.61 577.84 576.06 576.27 574.65 574.83 573.24 573.51 571.87 572.25 570.57 571.00 569.27 569.74

71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+00 81+00 82+00 83+00 84+00 85+00

S.C. RTE. 160 (HIGHWAY 160 E)

VPI = 87+50.00
Elev. = 563.45
K = 138
DS > 50 MPH
-2.515%
-5.785%
569.11 VPC (+25)
450' V.C.
550.43 VPT (+75)
539.73 VPC (+60)
550' V.C.
521.34 VPT (+10)
VPI = 94+35.00
Elev. = 523.82
K = 113
DS > 50 MPH
EXIST. GROUND
-5.785%
FINISHED GRADE
-0.902%
EXISTING 5x5 RCBC

EXISTING CULVERT HYDRAULIC DATA
D.A. = 0.603 sq.mi. = 386 ac.
Q = 464 cfs
Vel. = 18.56 ft/s
50 Year H.W.Elev. = 515.26 ft
Q = 536 cfs
Vel. = 21.50 ft/s
100 Year H.W.Elev. = 518.32 ft
OVERTOPPING FLOOD:
Q > 595.60 cfs
Probability < 0.5%

PROPOSED EXTENDED CULVERT HYDRAULIC DATA
D.A. = 0.603 sq.mi. = 386 ac.
Q = 464 cfs
Vel. = 18.56 ft/s
50 Year H.W.Elev. = 515.38 ft
Q = 536 cfs
Vel. = 21.50 ft/s
100 Year H.W.Elev. = 518.44 ft
OVERTOPPING FLOOD:
Q > 593.47 cfs
Probability < 0.5%

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03318

DocuSigned by: CHRISTOPHER E. CARLSTEN REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA No. 22780 10/12/2022

NOTE:
SURVEY POC STA 103+62.56
END PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

SURVEY POT STA 97+10.00
END ROADWAY WIDENING
BEGIN MILL AND RESURFACE
S.C. RTE. 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT
ELEV = 521.34

569.27 569.74 567.94 568.46 566.52 567.02 564.89 565.40 563.05 563.59 561.20 561.61 559.09 559.44 556.70 557.10 554.18 554.57 551.43 551.86 548.54 548.99 545.66 546.09 542.73 543.20 539.76 540.31 536.76 537.19 533.85 534.88 531.09 532.50 528.70 530.34 526.89 528.40 525.31 526.69 523.93 525.19 522.99 523.92 522.34 522.87 521.89 522.04 521.40 521.43 520.99 520.62 520.33 520.25

85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00

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10/12/2022

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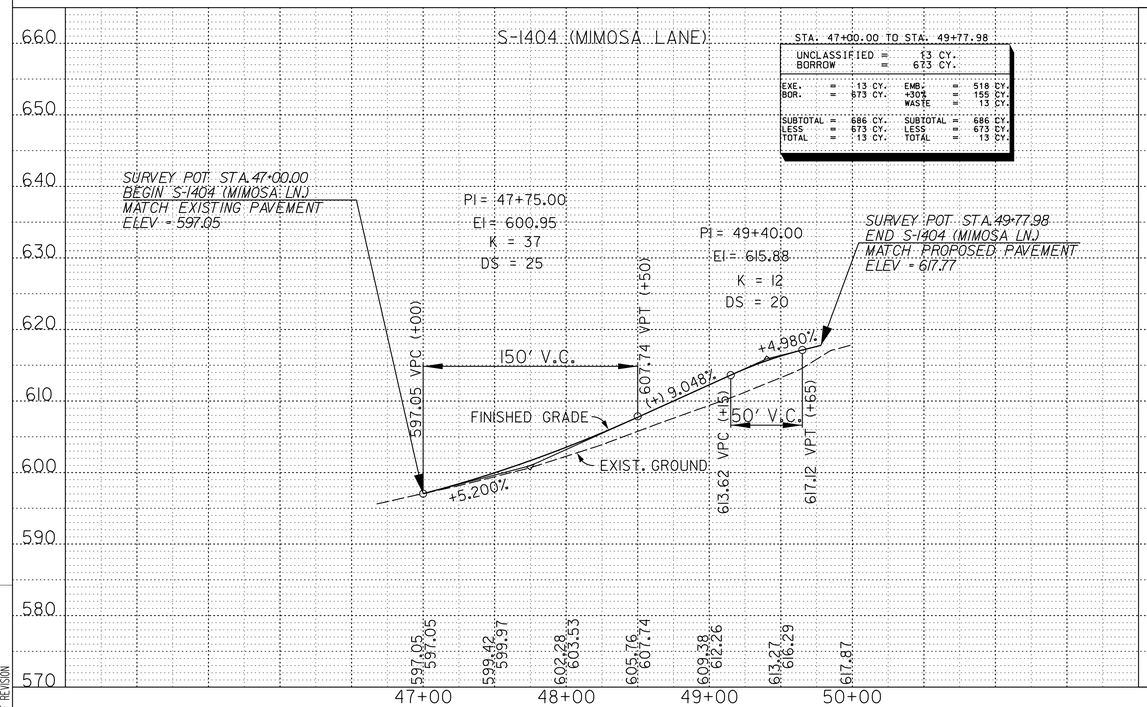
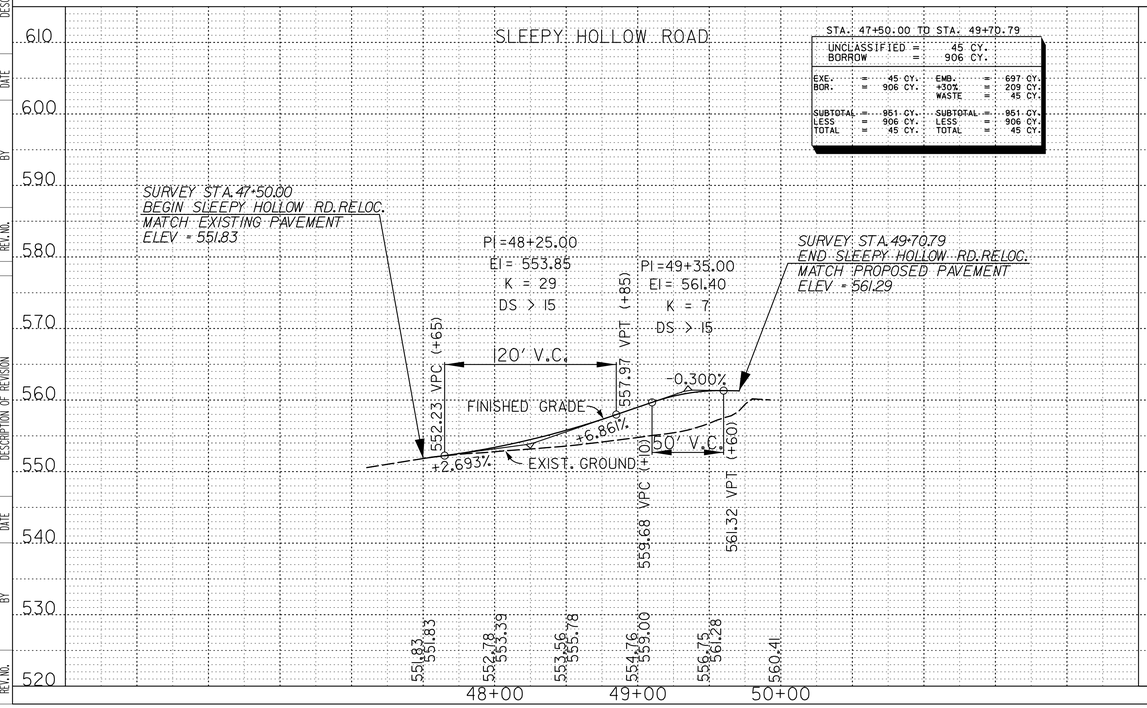
FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	1149-010	SC 160	10

STV 100 Years
STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406





SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION NUMBER
SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL ENGINEER
10/12/2022

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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10/12/2022

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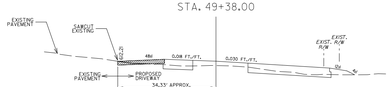
FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	DI

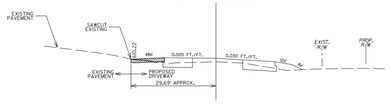
FINAL PLANS

KINGS COURT
STA. 49+38.00



DRIVEWAY CROSS SECTION - NORTH
N.T.S.

KINGS COURT
STA. 49+09.00



DRIVEWAY CROSS SECTION - SOUTH
N.T.S.

SURVEY POC STA.64+70.00
BEGIN PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

SURVEY POT STA.70+50.00
BEGIN ROADWAY WIDENING
SC 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT

RELOCATE SC 160 CENTERLINE
STA. 50+00.00 TO STA. 114+14.43
FROM FILE NO. 46.188B
FORT MILL SOUTHERN BYPASS PHASE 2

RELOCATE KINGS CT. CENTERLINE
STA. 46+98.65 TO STA. 50+00.00

DO NOT DISTURB TREES OR ROOTS

EXISTING SYSTEM TO BE REMOVED

CONSTRUCT NEW 18" BEVELED END TREATMENT

CONSTRUCT NEW MANHOLE (MH007) 6-FT DIA. TOP ELEV.: 615.25+/-

CONSTRUCT NEW MANHOLE (MH006) 4-FT DIA. TOP ELEV.: 618.50+/-

EXISTING 18" RCP TO REMAIN

GRADE DITCH TO CB005

CONSTRUCT NEW CB TYPE 9 (CB005) SLOT ON SOUTH SIDE ONLY. TOP ELEV.: 614.33 GRADE DITCH TO CB005

CONSTRUCT NEW MANHOLE (MH010) 4-FT DIA. TOP ELEV.: 614.00+/-

CONSTRUCT 18" DRWY PIPE-1 (BEVEL ENDS)

CONTRACTOR TO GRADE AREA AND NEW DRIVEWAY TO DRAIN TO NEW DI 24x36 (DI015) SEE CROSS SECTIONS THIS SHEET

CONSTRUCT NEW DI TYPE 24x36 (DI015) TOP ELEV.: 609.32+/-

CONSTRUCT 18" DRWY PIPE-2 (BEVEL ENDS)

CONSTRUCT 18" DRWY PIPE-3 (BEVEL ENDS)

NP030 NP010 NP009 (CB005 TO MH007) NP007 NP015 NP005 WITH BEVELED END NP025

POT 46+98.65

POT 45+74.64

MATCH TO SHEET NO. D2 STA. 75+00.00

65 70 75 60

NOTES:

1. **EXISTING DRIVEWAY PIPES SHALL BE REMOVED WHERE A NEW DRIVEWAY IS PROPOSED.**
2. **PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY AND OPEN END PIPES PER SCDOT STD 719-610-00**

DocuSigned by: Amy Paris
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
10/12/2022
PARIS PETERS

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

50 0 50 100
scale feet

STV 100 Years 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
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5			
4			
3			
2			
1			

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. DI

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10/12/2022

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DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	DIT

FINAL PLANS

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	NP005	18	1	20.81	4.28	HW030	BEVELED END	71+15.62	616.52	MH005	MANHOLE (4-FT)	71+35.00	615.63	0.00	1.37	-	10	S	-	III	-	16ga	
Closed	NP007	18	1	143.33	4.28	MH005	MANHOLE (4-FT)	71+35.00	615.48	MH007	MANHOLE (6-FT)	72+82.00	609.34	1.00	6.06	13	10	S	-	III	-	16ga	
Closed	NP009	18	1	2.25	6.23	CB005	C.B. TYPE 9	72+82.00	609.25	MH007	MANHOLE (6-FT)	72+82.00	609.14	2.00	6.06	-	10	S	-	III	-	16ga	
Closed	NP010	18	1	27.30	4.14	MH007	MANHOLE (6-FT)	72+82.00	609.14	MH010	MANHOLE (4-FT)	73+10.73	608.01	3.00	5.31	10	10	S	-	III	-	16ga	
Closed	NP015	18	1	68.85	4.34	MH010	MANHOLE (4-FT)	73+10.73	607.86	DI015	D.I. 24"X36"	49+00.00	604.87	4.00	5.00	-	10	S	-	III	-	16ga	
Closed	NP025	18	1	98.02	4.32	DI015	D.I. 24"X36"	49+00.00	604.74	OP025	BEVELED END	48+00.00	600.51	5.00		-	10	S	-	III	-	16ga	
Closed	NP030	18	1	190.24	7.62	HW005	BEVELED END	49+32.00	610.00	OP010	BEVELED END	47+42.00	595.50	6.00		-	10	S	-	III	-	16ga	

Driveway Pipe and Riprap for Pipe End Treatments

x	x	Geometry				Upstream				Downstream				Riprap Class		Fill Slopes	Pipe
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Riprap	Geotextile	Station	Link Invert	Riprap	Geotextile	Station	Link Invert	Upstream	Downstream		End
x	x	(in)	Barrels	(ft)	(%)	(tons)	(square yards)		(ft)	(tons)	(square yards)		(ft)			(Hor/Vert)	Type
Driveway	PIPE 1	18	1	29.0	4.1	12	15	74+06 (SR-160 Lt.)	608.98	12	15	74+35 (SR-160 Lt.)	607.78	B	B	4:1	Beveled
Driveway	PIPE 2	18	1	39.0	4.7	12	15	48+36 (Kings Ct. Rt.)	602.95	12	15	47+97 (Kings Ct. Rt.)	601.12	B	B	4:1	Beveled
Driveway	PIPE 3	18	1	54.0	2.5	12	15	47+54 (Kings Ct. Lt.)	599.25	12	15	47+00 (Kings Ct. Lt.)	597.90	B	B	4:1	Beveled

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10/12/2022

PROFESSIONAL ENGINEER
SOUTH CAROLINA
DocuSigned by: Amy Paris Peters
E8D7F7C0F9D467...
No. 21220
10/12/2022
AMY PARIS PETERS

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN TABLE
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. DIT

PROLINE.DGN

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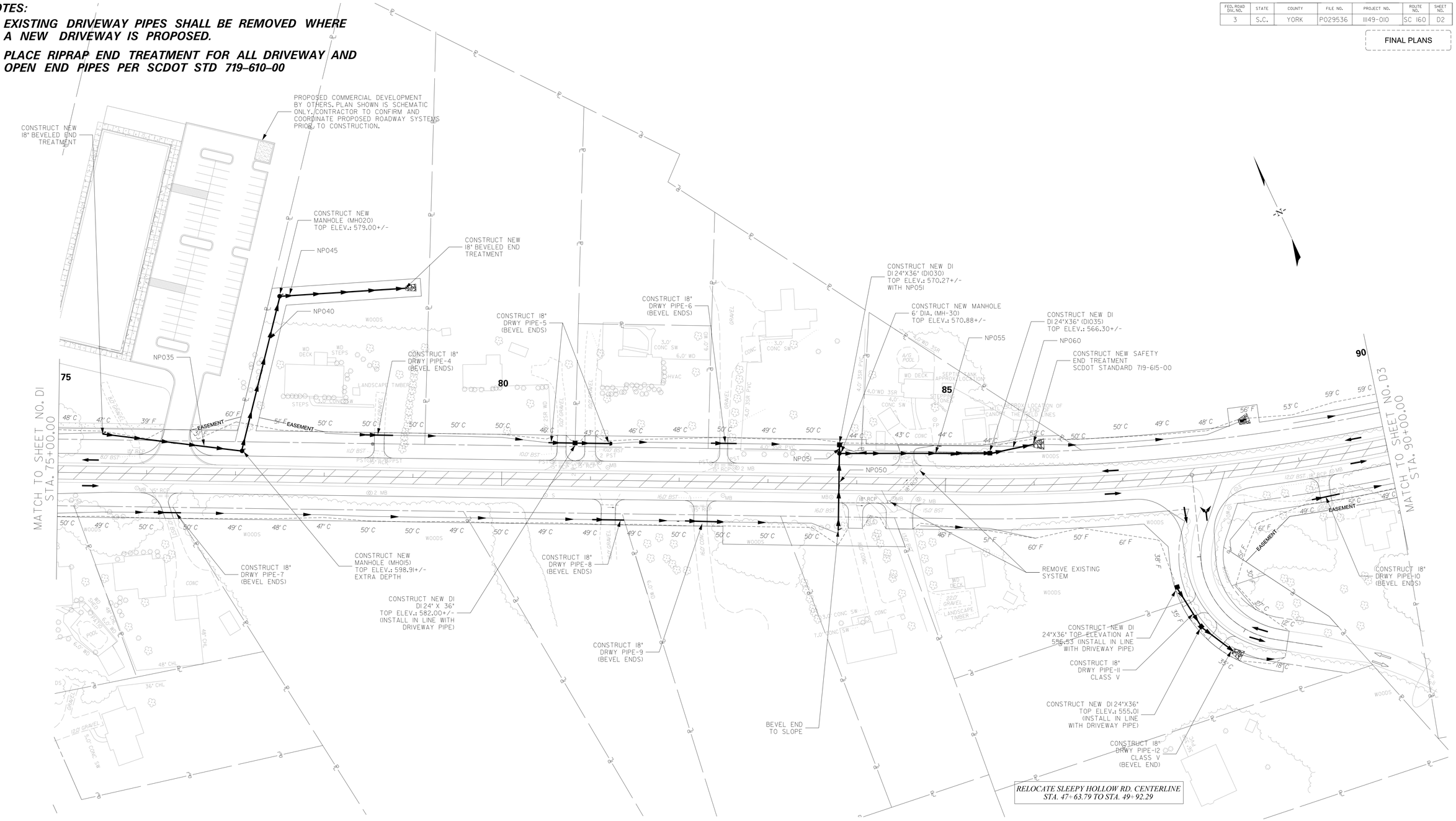
FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	111149-010	SC 160	D2

FINAL PLANS

NOTES:

1. ***EXISTING DRIVEWAY PIPES SHALL BE REMOVED WHERE A NEW DRIVEWAY IS PROPOSED.***
2. ***PLACE RIPRAP END TREATMENT FOR ALL DRIVEWAY AND OPEN END PIPES PER SCDOT STD 719-610-00***



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scale feet

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No. 21220
10/12/2022
JEFFREY PARIS PETERS
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042467

SOUTH CAROLINA
STV INCORPORATED NO. C0338
CERTIFICATE OF AUTHORIZATION

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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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. D2

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	D2T

FINAL PLANS

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	NP035	18	1	156.43	6.00	HW010	BEVELED END	75+49.71	602.68	MH015	MANHOLE (4-FT)	77+07.07	593.38	0.00	4.03	-	10	S	-	III	-		
Closed	NP040	18	1	175.71	5.12	MH015	MANHOLE (4-FT)	77+07.07	583.75	MH020	MANHOLE (4-FT)	77+46.85	574.75	2.75	13.66	-	10	S	-	III	-		
Closed	NP045	18	1	140.22	6.60	MH020	MANHOLE (4-FT)	77+46.85	574.75	OP015	BEVELED END	78+88.47	565.50	0.00	2.75	-	10	S	-	III	-		
Closed	NP050	24	1	84.88	0.78	HW015	BEVELED END	83+80.00	566.77	MH030	MANHOLE (4-FT)	83+80.00	566.11	0.00	2.77	-	10	S	-	III	-		
Closed	NP051	18	1	5.67	10.00	DI030	D.I. 24"X36"	83+80.00	557.09	MH030	MANHOLE (4-FT)	83+80.00	556.52	11.68	12.86	-	10	S	-	III	-		
Closed	NP055	24	1	165.65	1.59	MH030	MANHOLE (4-FT)	83+80.00	566.01	DI035	D.I. 24"X36"	85+50.00	563.38	0.92	2.87	-	10	S	-	III	-		
Closed	NP060	24	1	47.99	0.77	DI035	D.I. 24"X36"	85+50.00	563.38	OP020	SAFETY END	86+00.00	563.01	0.00	0.92	-	13	S	-	III	-		

Driveway Pipe and Riprap for Pipe End Treatments

x	x	Geometry				Upstream				Downstream				Riprap Class		Fill Slopes	Pipe
System ID	Link ID	Diameter	No. of	Pipe Length	Slope	Riprap	Geotextile	Station	Link Invert	Riprap	Geotextile	Station	Link Invert	Upstream	Downstream		End
x	x	(in)	Barrels	(ft)	(%)	(tons)	(square yards)		(ft)	(tons)	(square yards)		(ft)			(Hor/Vert)	Type
Driveway	PIPE 4	18	1	31.0	4.8	12	15	78+46 (SR-160 Lt.)	587.37	12	15	78+77 (SR-160 Lt.)	585.89	B	B	4:1	Beveled
Driveway	PIPE 5	18	1	72.0	3.1	12	15	80+52 (SR-160 Lt.)	579.56	12	15	81+24 (SR-160 Lt.)	577.32	B	B	4:1	Beveled
Driveway	PIPE 6	18	1	29.0	2.5	12	15	82+35 (SR-160 Lt.)	573.93	12	15	82+64 (SR-160 Lt.)	573.21	B	B	4:1	Beveled
Driveway	PIPE 7	18	1	30.8	4.6	12	15	76+09 (SR-160 Rt.)	600.95	12	15	76+39 (SR-160 Rt.)	599.53	B	B	4:1	Beveled
Driveway	PIPE 8	18	1	36.0	1.6	12	15	81+03 (SR-160 Rt.)	577.15	12	15	81+39 (SR-160 Rt.)	576.56	B	B	4:1	Beveled
Driveway	PIPE 9	18	1	43.0	2.0	12	15	82+07 (SR-160 Rt.)	574.54	12	15	82+50 (SR-160 Rt.)	573.18	B	B	4:1	Beveled
Driveway	PIPE 10	18	1	32.0	5.5	12	15	89+07 (SR-160 Rt.)	553.13	12	15	89+39 (SR-160 Rt.)	551.37	B	B	4:1	Beveled
Driveway	PIPE 11	18	1	52.0	1.6			48+75 (Sleepy H. Rt)	553.02			48+35 (Sleepy H. Rt)	552.29				Square
Driveway	PIPE 12	18	1	45.0	1.6			48+35 (Sleepy H. Rt)	552.24	12	15	48+00 (Sleepy H. Rt)	551.50		B	4:1	Beveled

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DocuSigned by: PA CAROLINA PROFESSIONAL ENGINEER No. 21220 10/12/2022 TIMOTHY PARIS PETERS

SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

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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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN TABLE
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. D2T

PROLINE.DGN

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3	S.C.	YORK	P029536	11149-010	SC 160	D3

FINAL PLANS

EXISTING CULVERT HYDRAULIC DATA

D.A.= 0.603 sq.mi.= 386 ac.

Q_{50}= 464 cfs
Vel.= 18.56 ft/s
50 Year H.W.Elev.= 515.26 ft

Q_{100}= 536 cfs
Vel.= 21.50 ft/s
100 Year H.W.Elev.= 518.32 ft

OVERTOPPING FLOOD:
Q > 595.60 cfs
Probability > 0.5%

PROPOSED EXTENDED CULVERT HYDRAULIC DATA

D.A.= 0.603 sq.mi.= 386 ac.

Q_{50}= 464 cfs
Vel.= 18.56 ft/s
50 Year H.W.Elev.= 515.38 ft

Q_{100}= 536 cfs
Vel.= 21.50 ft/s
100 Year H.W.Elev.= 518.44 ft

OVERTOPPING FLOOD:
Q > 593.47 cfs
Probability > 0.5%

50 0 50 100
scale feet

DocuSigned by: PARIS PETERS
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 21220
10/12/2022

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. D3

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	D3T

FINAL PLANS

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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10/12/2022

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Amy Paris Peters
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NORTH CAROLINA
No. 21220
PROFESSIONAL ENGINEER
AMY PARIS PETERS
10/12/2022

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
DRAINAGE PLAN TABLE
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. D3T

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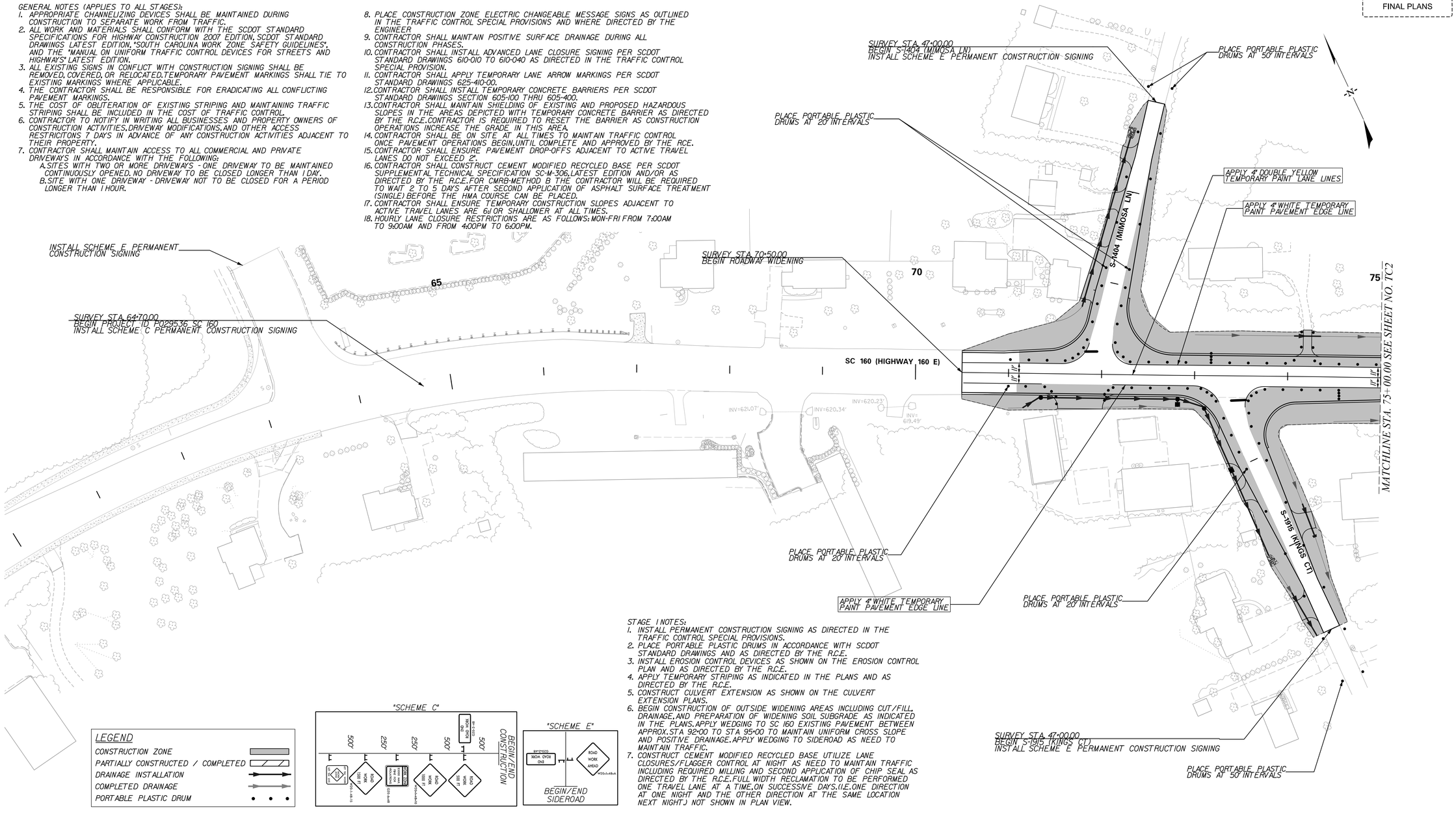
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TCI

FINAL PLANS

GENERAL NOTES (APPLIES TO ALL STAGES):
1. APPROPRIATE CHANNELIZING DEVICES SHALL BE MAINTAINED DURING CONSTRUCTION TO SEPARATE WORK FROM TRAFFIC.
2. ALL WORK AND MATERIALS SHALL CONFORM WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2007 EDITION, SCDOT STANDARD DRAWINGS LATEST EDITION, "SOUTH CAROLINA WORK ZONE SAFETY GUIDELINES", AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION.
3. ALL EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION SIGNING SHALL BE REMOVED, COVERED, OR RELOCATED. TEMPORARY PAVEMENT MARKINGS SHALL TIE TO EXISTING MARKINGS WHERE APPLICABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERADICATING ALL CONFLICTING PAVEMENT MARKINGS.
5. THE COST OF OBLITERATION OF EXISTING STRIPING AND MAINTAINING TRAFFIC STRIPING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL.
6. CONTRACTOR TO NOTIFY IN WRITING ALL BUSINESSES AND PROPERTY OWNERS OF CONSTRUCTION ACTIVITIES, DRIVEWAY MODIFICATIONS, AND OTHER ACCESS RESTRICITONS 7 DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES ADJACENT TO THEIR PROPERTY.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND PRIVATE DRIVEWAYS IN ACCORDANCE WITH THE FOLLOWING:
   A. SITES 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.
8. PLACE CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGNS AS OUTLINED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS AND WHERE DIRECTED BY THE ENGINEER
9. CONTRACTOR SHALL MAINTAIN POSITIVE SURFACE DRAINAGE DURING ALL CONSTRUCTION PHASES.
10. CONTRACTOR SHALL INSTALL ADVANCED LANE CLOSURE SIGNING PER SCDOT STANDARD DRAWINGS 610-010 TO 610-040 AS DIRECTED IN THE TRAFFIC CONTROL SPECIAL PROVISION.
11. CONTRACTOR SHALL APPLY TEMPORARY LANE ARROW MARKINGS PER SCDOT STANDARD DRAWINGS 625-410-00.
12. CONTRACTOR SHALL INSTALL TEMPORARY CONCRETE BARRIERS PER SCDOT STANDARD DRAWINGS SECTION 605-100 THRU 605-400.
13. CONTRACTOR SHALL MAINTAIN SHIELDING OF EXISTING AND PROPOSED HAZARDOUS SLOPES IN THE AREAS DEPICTED WITH TEMPORARY CONCRETE BARRIER AS DIRECTED BY THE R.C.E. CONTRACTOR IS REQUIRED TO RESET THE BARRIER AS CONSTRUCTION OPERATIONS INCREASE THE GRADE IN THIS AREA.
14. CONTRACTOR SHALL BE ON SITE AT ALL TIMES TO MAINTAIN TRAFFIC CONTROL ONCE PAVEMENT OPERATIONS BEGIN, UNTIL COMPLETE AND APPROVED BY THE RCE.
15. CONTRACTOR SHALL ENSURE PAVEMENT DROP-OFFS ADJACENT TO ACTIVE TRAVEL LANES DO NOT EXCEED 2".
16. CONTRACTOR SHALL CONSTRUCT CEMENT MODIFIED RECYCLED BASE PER SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATION SC-M-306, LATEST EDITION AND/OR AS DIRECTED BY THE R.C.E. FOR CMRB-METHOD B THE CONTRACTOR WILL BE REQUIRED TO WAIT 2 TO 5 DAYS AFTER SECOND APPLICATION OF ASPHALT SURFACE TREATMENT (SINGLE) BEFORE THE HMA COURSE CAN BE PLACED.
17. CONTRACTOR SHALL ENSURE TEMPORARY CONSTRUCTION SLOPES ADJACENT TO ACTIVE TRAVEL LANES ARE 6:1 OR SHALLOWER AT ALL TIMES.
18. HOURLY LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS: MON-FRI FROM 7:00AM TO 9:00AM AND FROM 4:00PM TO 6:00PM.



LEGEND
- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

STAGE 1 NOTES:
1. INSTALL PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS.
2. PLACE PORTABLE PLASTIC DRUMS IN ACCORDANCE WITH SCDOT STANDARD DRAWINGS AND AS DIRECTED BY THE R.C.E.
3. INSTALL EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLAN AND AS DIRECTED BY THE R.C.E.
4. APPLY TEMPORARY STRIPING AS INDICATED IN THE PLANS AND AS DIRECTED BY THE R.C.E.
5. CONSTRUCT CULVERT EXTENSION AS SHOWN ON THE CULVERT EXTENSION PLANS.
6. BEGIN CONSTRUCTION OF OUTSIDE WIDENING AREAS INCLUDING CUT/FILL, DRAINAGE, AND PREPARATION OF WIDENING SOIL SUBGRADE AS INDICATED IN THE PLANS. APPLY WEDGING TO SC 160 EXISTING PAVEMENT BETWEEN APPROX. STA 92+00 TO STA 95+00 TO MAINTAIN UNIFORM CROSS SLOPE AND POSITIVE DRAINAGE. APPLY WEDGING TO SIDEROAD AS NEED TO MAINTAIN TRAFFIC.
7. CONSTRUCT CEMENT MODIFIED RECYCLED BASE UTILIZE LANE CLOSURES/FLAGGER CONTROL AT NIGHT AS NEED TO MAINTAIN TRAFFIC INCLUDING REQUIRED MILLING AND SECOND APPLICATION OF CHIP SEAL AS DIRECTED BY THE R.C.E. FULL WIDTH RECLAMATION TO BE PERFORMED ONE TRAVEL LANE AT A TIME, ON SUCCESSIVE DAYS. (I.E. ONE DIRECTION AT ONE NIGHT AND THE OTHER DIRECTION AT THE SAME LOCATION NEXT NIGHT.) NOT SHOWN IN PLAN VIEW.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED No. C03338

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 22780 — CHRISTOPHER E. CARLSTEN — 10/12/2022

SCALE: 50 0 50 100 FEET

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TCI

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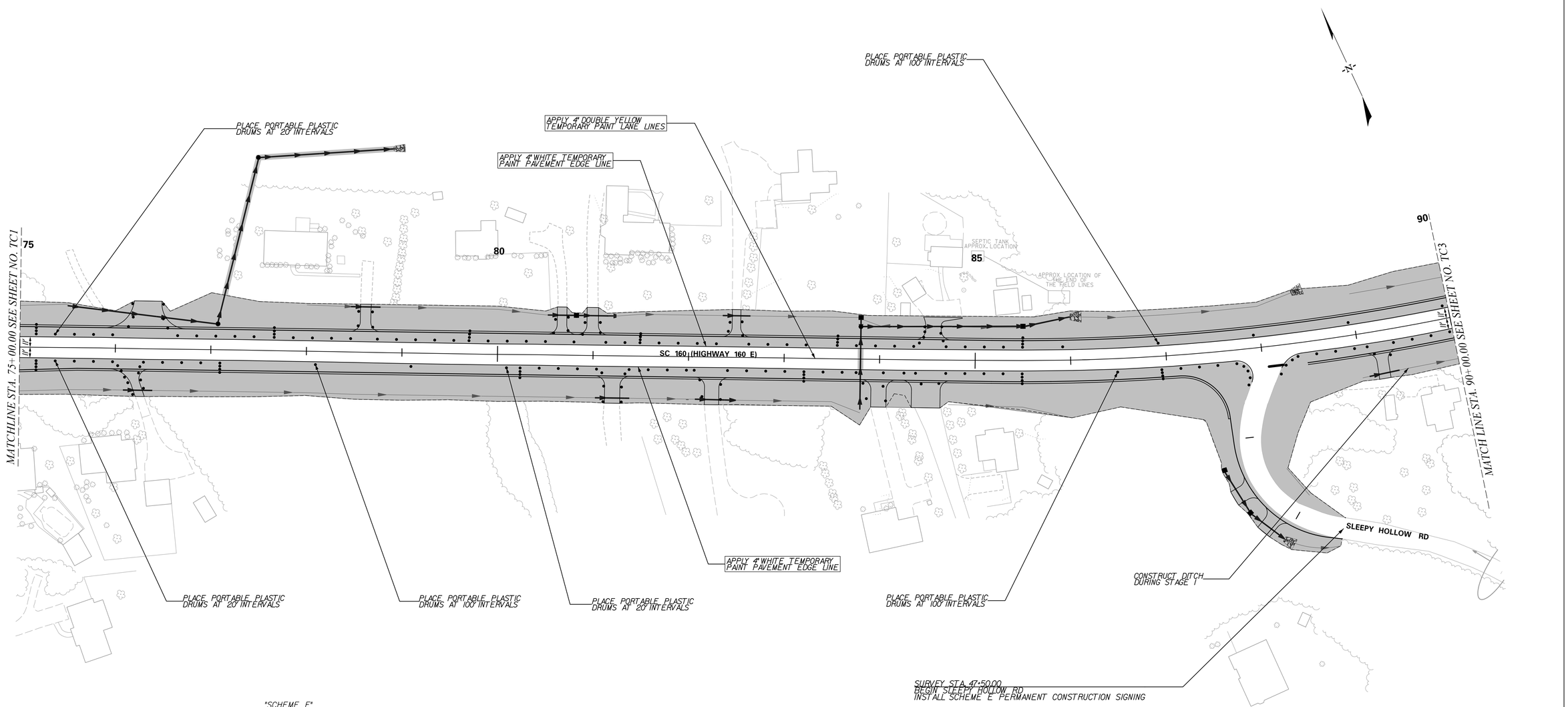
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC2

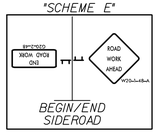
FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

"SCHEME E"



SEE SHEET TC1 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA STV INCORPORATED NO. C03338 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARLSTEN 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 1

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC2

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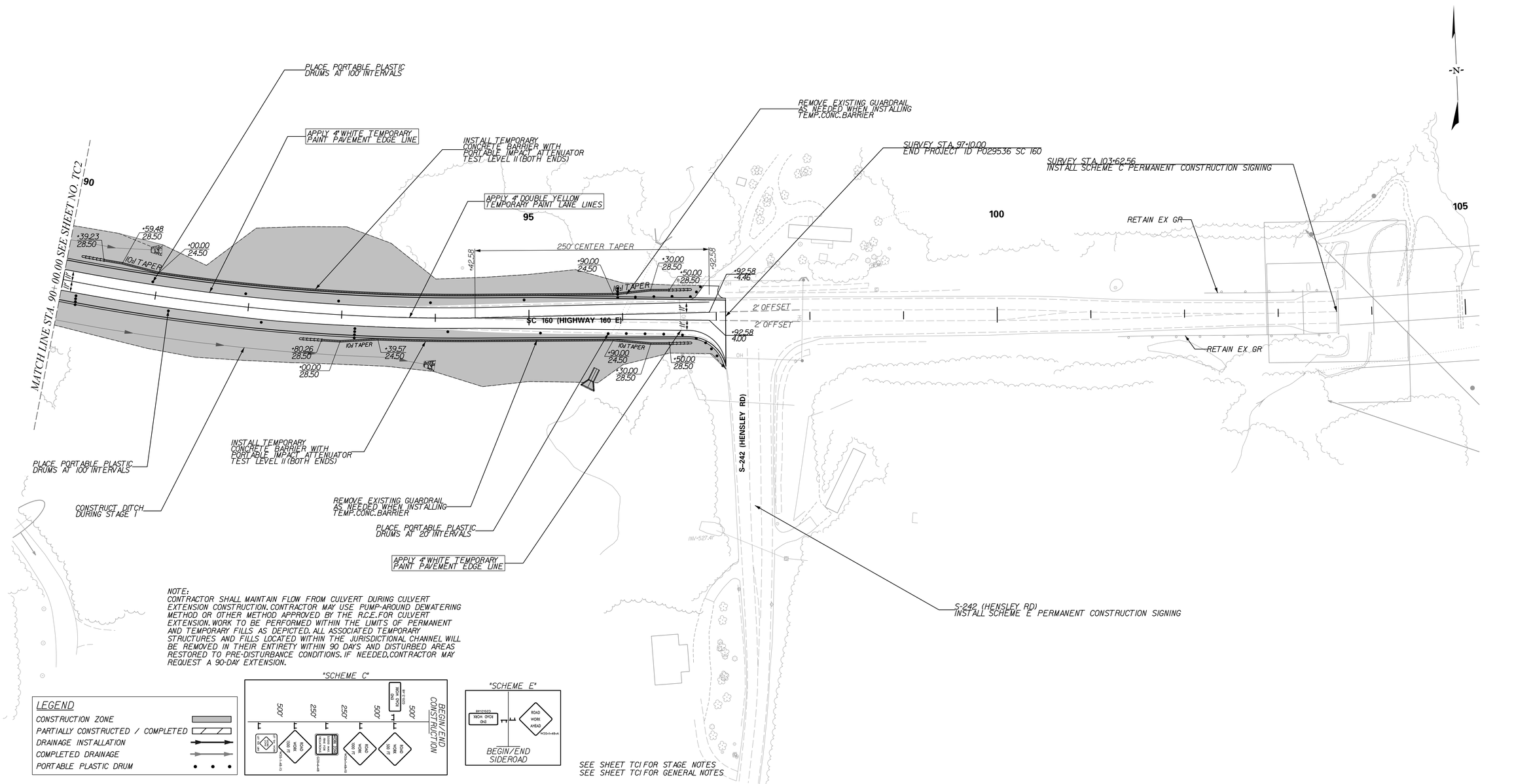
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC3

FINAL PLANS



NOTE:
CONTRACTOR SHALL MAINTAIN FLOW FROM CULVERT DURING CULVERT EXTENSION CONSTRUCTION. CONTRACTOR MAY USE PUMP-AROUND DEWATERING METHOD OR OTHER METHOD APPROVED BY THE R.C.E. FOR CULVERT EXTENSION. 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.

LEGEND
- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

SCHEME C

SCHEME E

SEE SHEET TC1 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SCALE 50 0 50 100 FEET

STV Incorporated
260 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SOUTH CAROLINA — STV INCORPORATED NO. C03338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — 10/12/2022

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONROL PLANS STAGE 1

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC3

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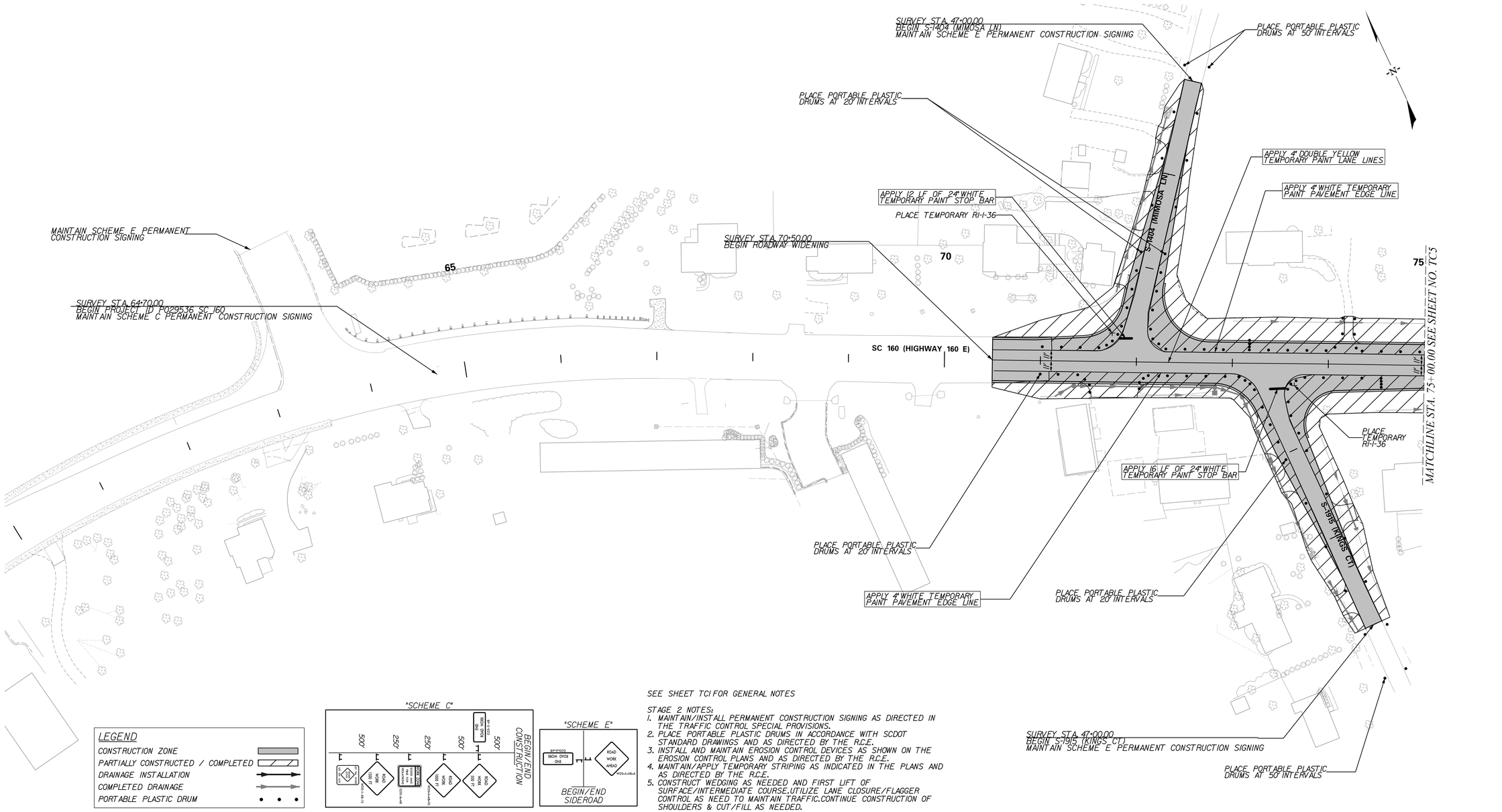
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC4

FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

SEE SHEET TC1 FOR GENERAL NOTES

STAGE 2 NOTES:

1. MAINTAIN/INSTALL PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS.
2. PLACE PORTABLE PLASTIC DRUMS IN ACCORDANCE WITH SCDOT STANDARD DRAWINGS AND AS DIRECTED BY THE R.C.E.
3. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLANS AND AS DIRECTED BY THE R.C.E.
4. MAINTAIN/APPLY TEMPORARY STRIPING AS INDICATED IN THE PLANS AND AS DIRECTED BY THE R.C.E.
5. CONSTRUCT WEDGING AS NEEDED AND FIRST LIFT OF SURFACE/INTERMEDIATE COURSE.UTILIZE LANE CLOSURE/FLAGGER CONTROL AS NEED TO MAINTAIN TRAFFIC.CONTINUE CONSTRUCTION OF SHOULDERS & CUT/FILL AS NEEDED.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA — STV INCORPORATED No. C03338 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED LANDSCAPE ARCHITECT — No. 22780 — CHRISTOPHER E. CARLSTEN — 10/12/2022

50 0 50 100
SCALE FEET

STV 100 Years — STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC4

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10/12/2022

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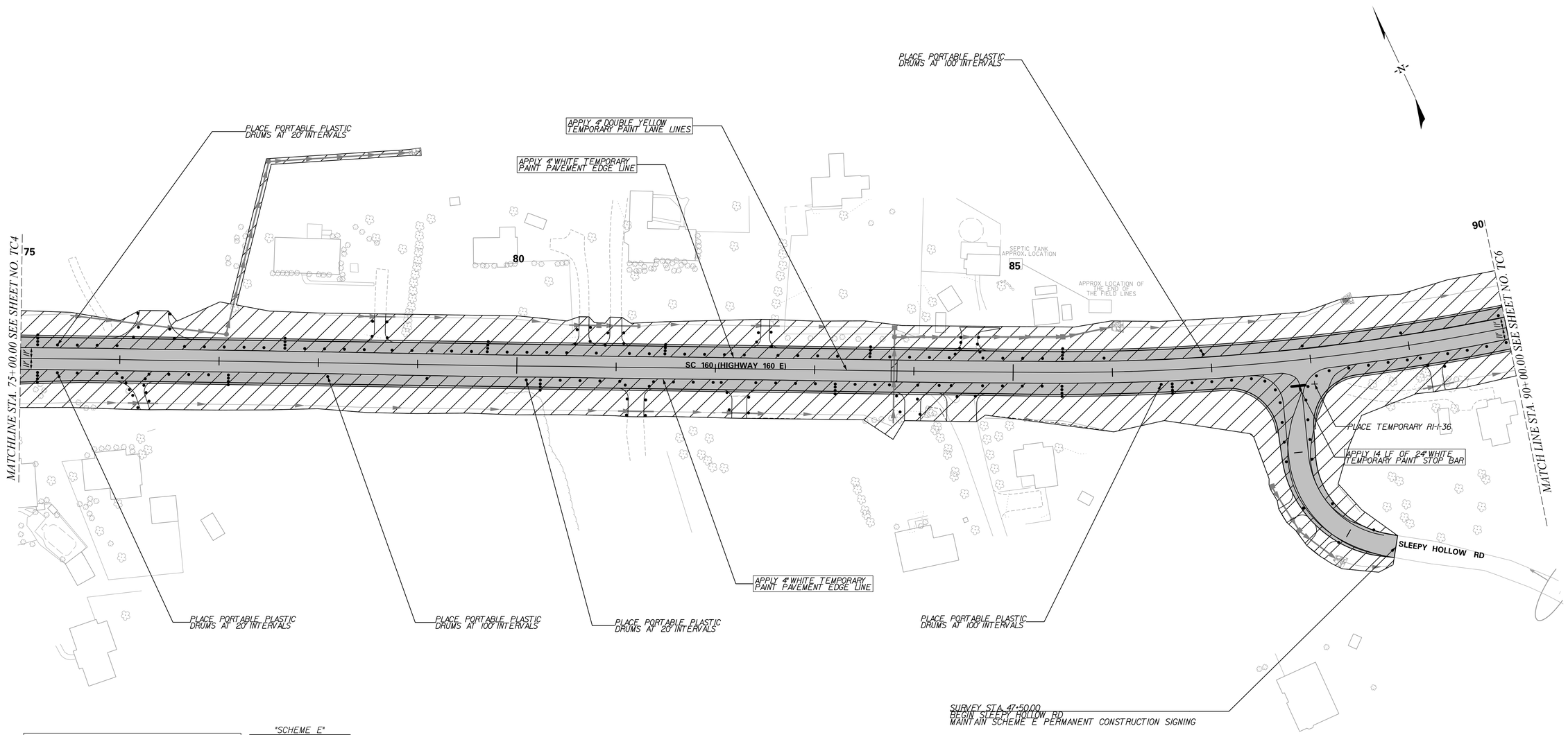
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC5

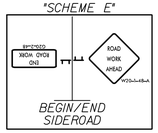
FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

"SCHEME E"



SEE SHEET TC4 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03338

SOUTH CAROLINA — CHRISTOPHER E. CARLSTEN — No. 22780 — 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2460 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 2

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC5

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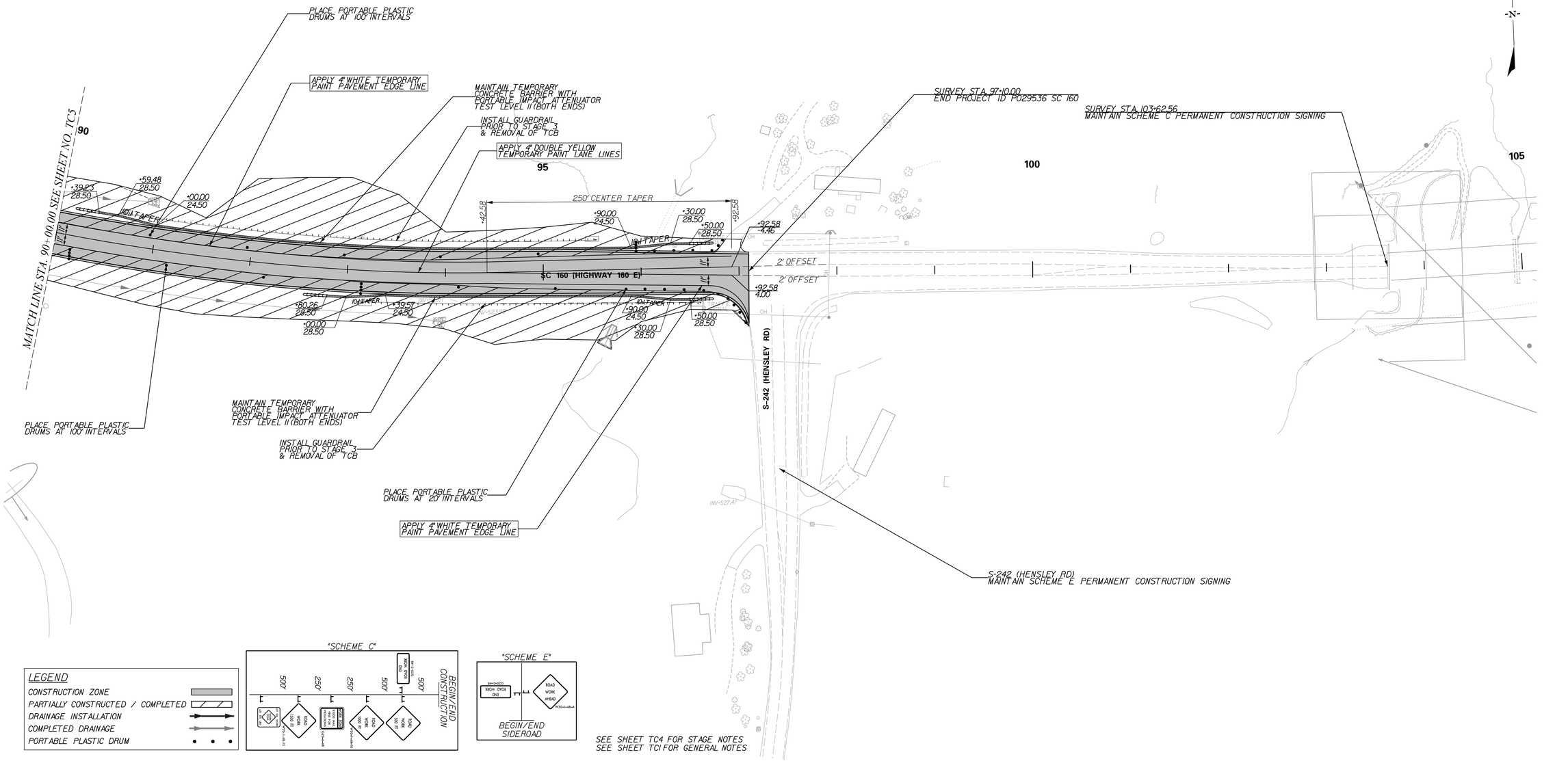
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC6

FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

SEE SHEET TC4 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SCALE 50 0 50 100 FEET

STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
TRAFFIC CONROL PLANS
STAGE 2

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC6

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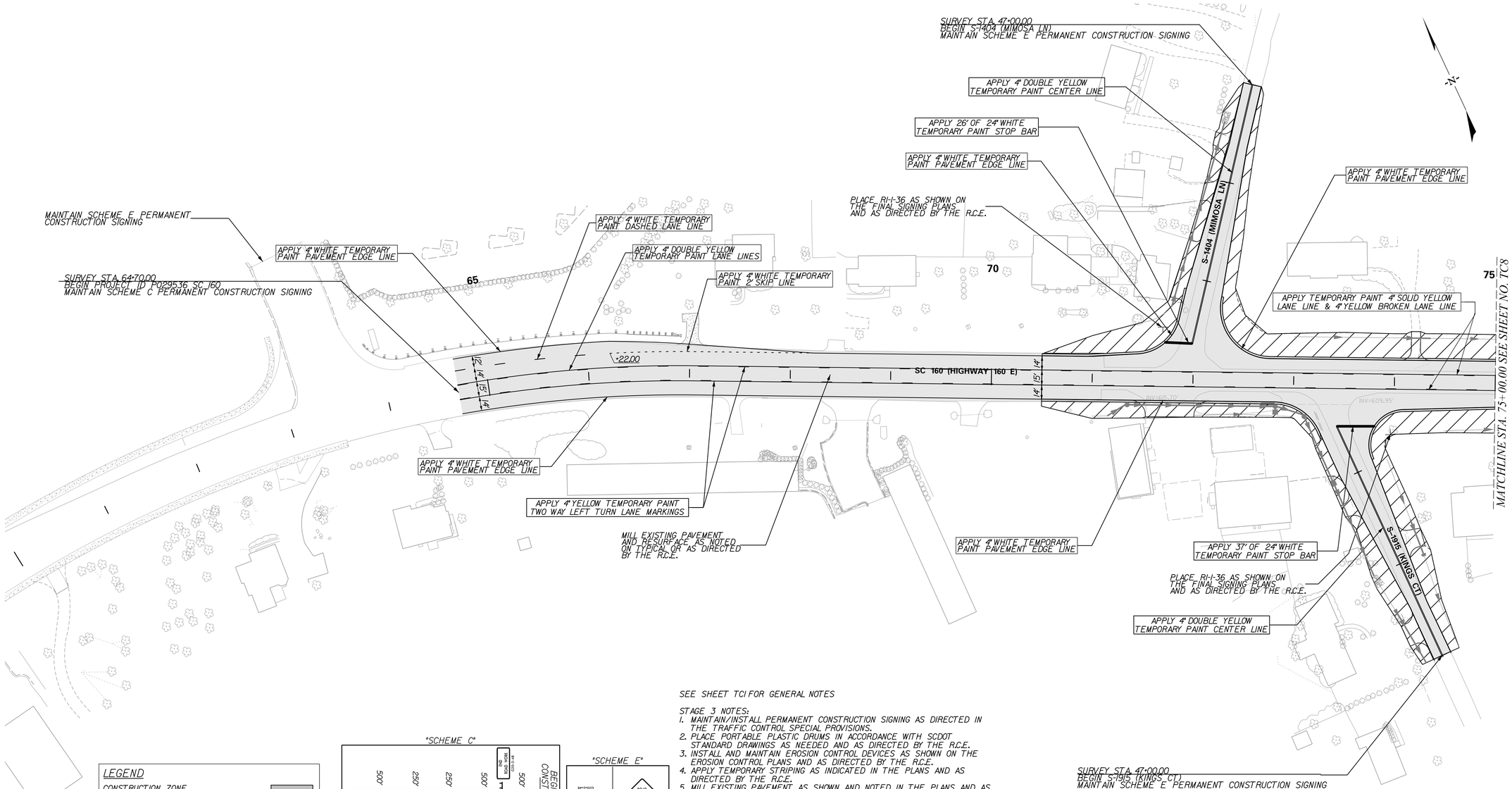
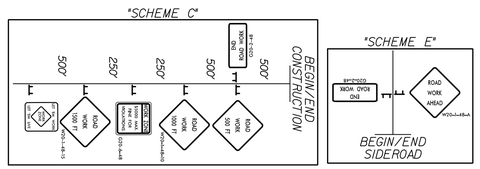
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC7

FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM



SEE SHEET TC1 FOR GENERAL NOTES

STAGE 3 NOTES:

1. MAINTAIN/INSTALL PERMANENT CONSTRUCTION SIGNING AS DIRECTED IN THE TRAFFIC CONTROL SPECIAL PROVISIONS.
2. PLACE PORTABLE PLASTIC DRUMS IN ACCORDANCE WITH SCDOT STANDARD DRAWINGS AS NEEDED AND AS DIRECTED BY THE R.C.E.
3. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL PLANS AND AS DIRECTED BY THE R.C.E.
4. APPLY TEMPORARY STRIPING AS INDICATED IN THE PLANS AND AS DIRECTED BY THE R.C.E.
5. MILL EXISTING PAVEMENT AS SHOWN AND NOTED IN THE PLANS AND AS DIRECTED BY THE R.C.E.
6. CONSTRUCT FINAL SURFACE PAVEMENT THOUGHT OUT THE PROJECT. UTILIZE LANE CLOSURE/FLAGGER CONTROL AS NEED TO MAINTAIN TRAFFIC.
7. APPLY FINAL PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING PLANS AND AS DIRECTED BY THE R.C.E.INSTALL SIGNING AS SHOWN IN THE SIGNING PLANS AND AS DIRECTED BY THE R.C.E.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03318

SOUTH CAROLINA — CHRISTOPHER E. CARLTON — No. 22780 — 10/12/2022

SCALE 1"=50' — 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC7

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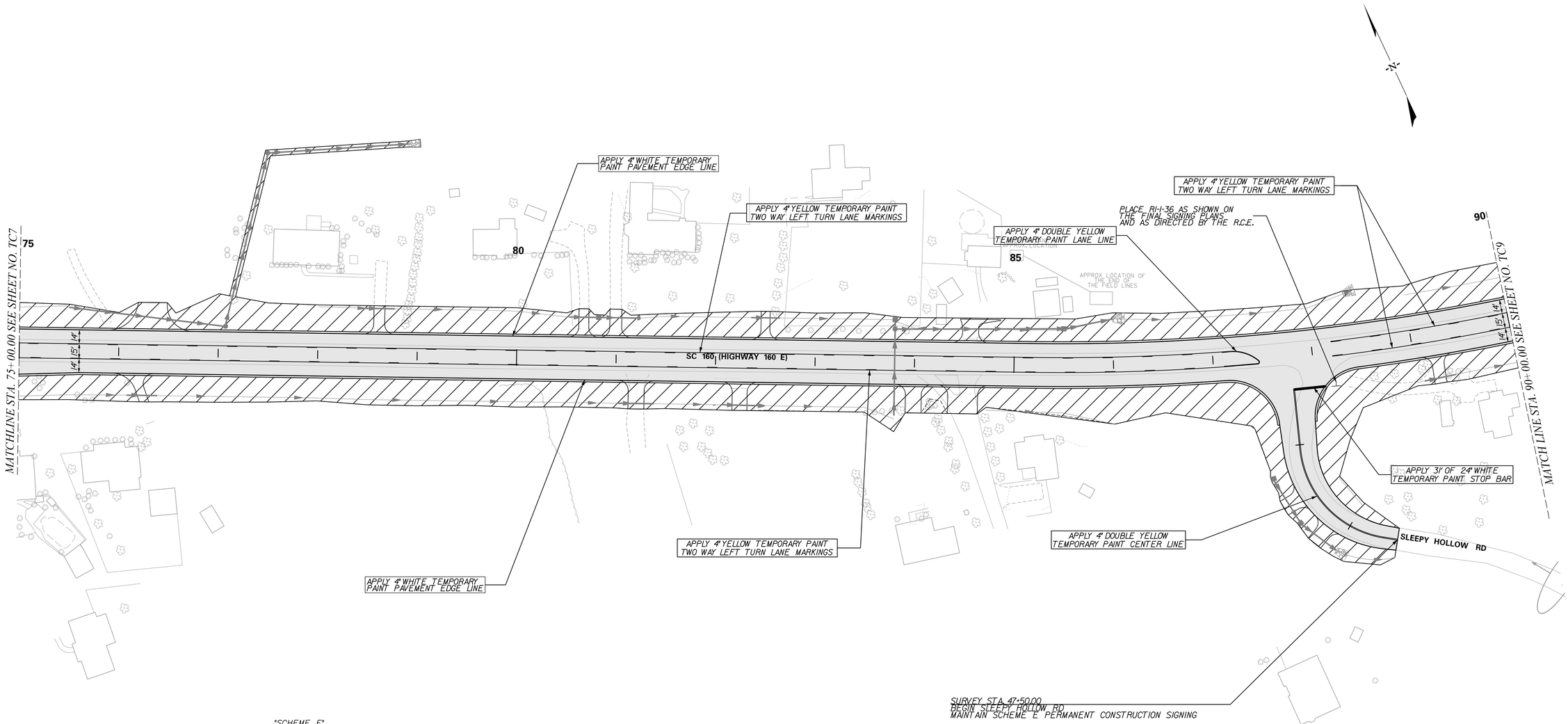
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC8

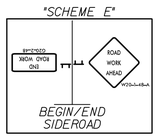
FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

"SCHEME E"



SEE SHEET TC7 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — STV INCORPORATED NO. C03338

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 22780 — CHRISTOPHER E. CARLTON — 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2450 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

TRAFFIC CONTROL PLANS STAGE 3

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC8

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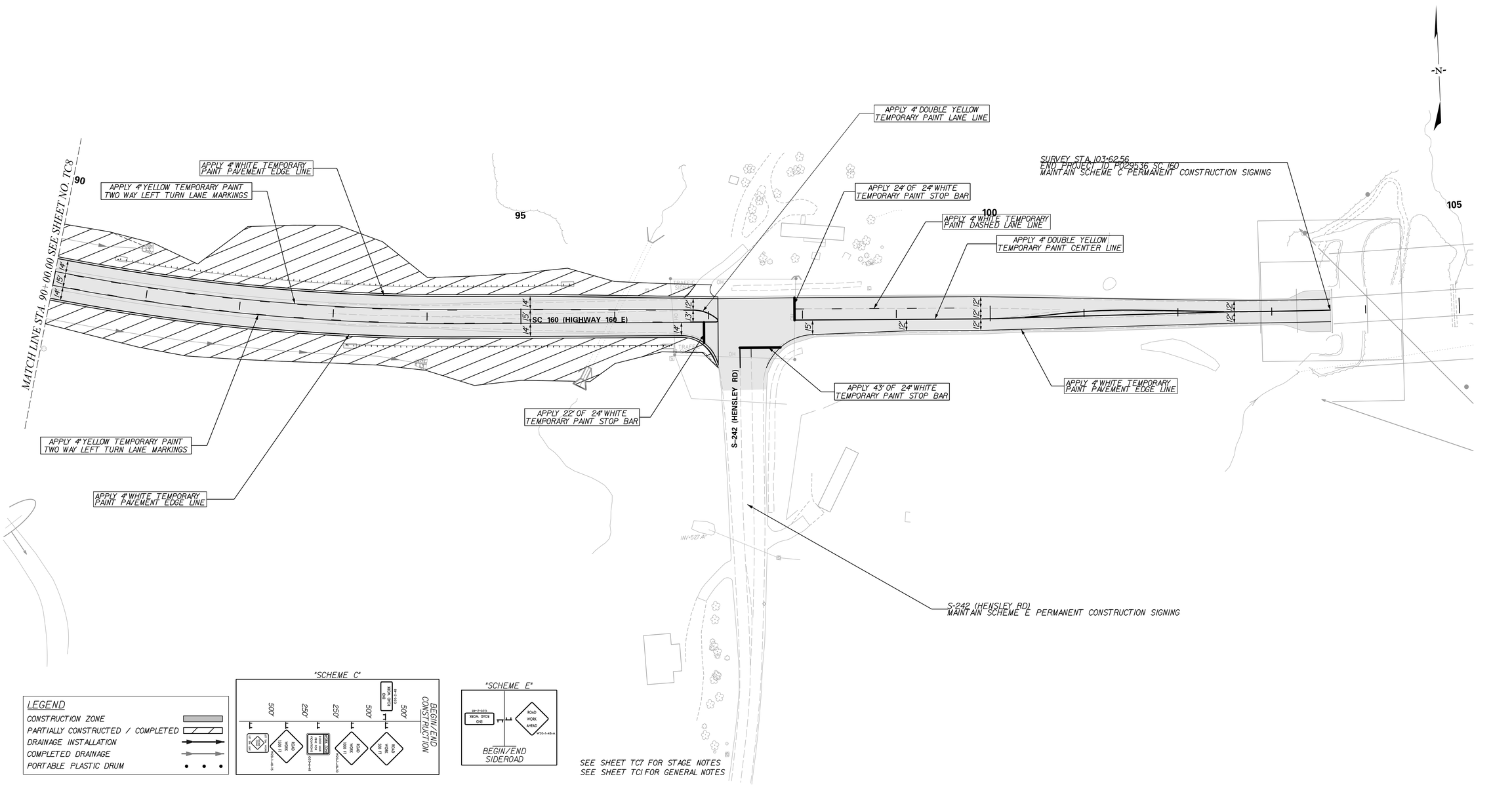
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	TC9

FINAL PLANS



LEGEND

- CONSTRUCTION ZONE
- PARTIALLY CONSTRUCTED / COMPLETED
- DRAINAGE INSTALLATION
- COMPLETED DRAINAGE
- PORTABLE PLASTIC DRUM

"SCHEME C"

"SCHEME E"

SEE SHEET TC7 FOR STAGE NOTES
SEE SHEET TC1 FOR GENERAL NOTES

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

SCALE 50 0 50 100 FEET

STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
TRAFFIC CONROL PLANS
STAGE 3

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. TC9

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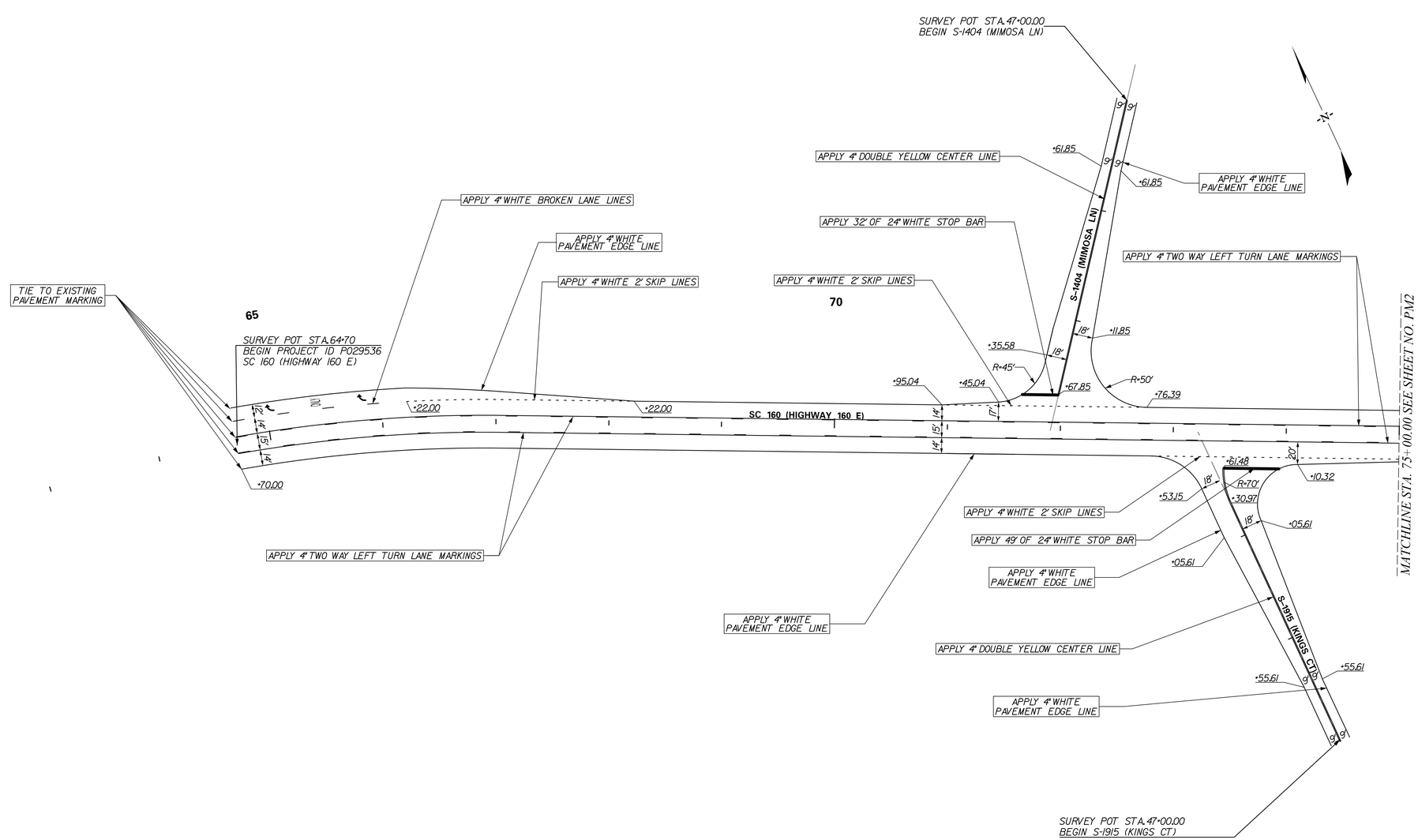
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	PM1

FINAL PLANS



NOTES:
- SEE SCDOT STANDARD DRAWING 625-305-00 THROUGH 625-425-00 FOR PAVEMENT MARKING DETAILS.
- SEE SCDOT STANDARD DRAWING 630-105-00 THROUGH 630-215-00 FOR RAISED PAVEMENT MARKER DETAILS.
- CONTRACTORS SHALL PLACE RAISED PAVEMENT MARKERS PER SCDOT STANDARD DRAWING AND AS DIRECTED BY THE R.C.E.
- CONTRACTOR SHALL PLACE "FOR ARROWS AND ONLY(S)" WHERE SHOWN ON THE PAVEMENT MARKING PLANS AND AS DIRECTED BY THE R.C.E. PER STANDARD DRAWING 625-410-00
- STATIONS SHOWN ON THE PAVEMENT MARKING PLANS ARE FOR INFORMATION ONLY AND MAY BE ADJUSTED BY THE R.C.E.

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

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

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 22780 — CHRISTOPHER E. CARSTEN — 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PAVEMENT MARKING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. PM1

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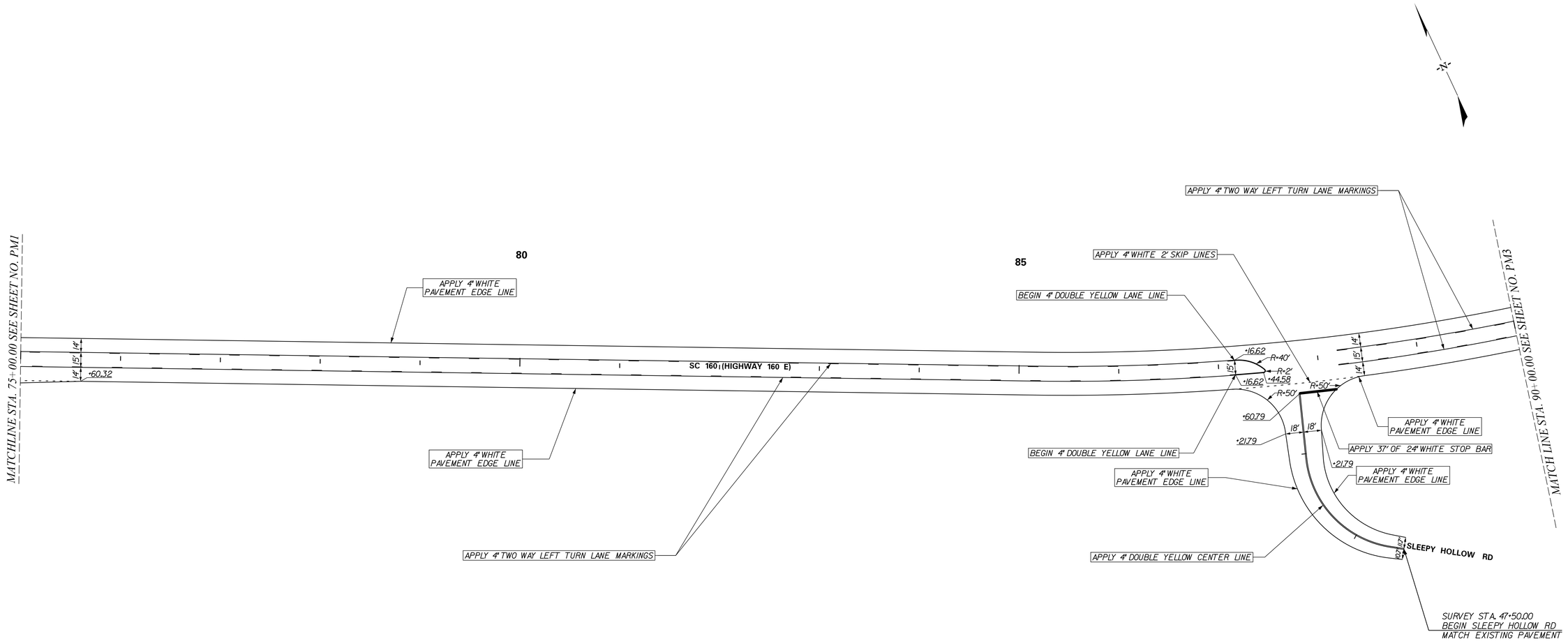
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	PM2

FINAL PLANS



NOTES:
- SEE SCDOT STANDARD DRAWING 625-305-00 THROUGH 625-425-00 FOR PAVEMENT MARKING DETAILS.
- SEE SCDOT STANDARD DRAWING 630-105-00 THROUGH 630-215-00 FOR RAISED PAVEMENT MARKER DETAILS.
- CONTRACTORS SHALL PLACE RAISED PAVEMENT MARKERS PER SCDOT STANDARD DRAWING AND AS DIRECTED BY THE R.C.E.
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ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

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

DocuSigned by: SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARSTEN — 10/12/2022

SCALE 50 0 50 100 FEET

STV 100 Years — STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PAVEMENT MARKING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. PM2

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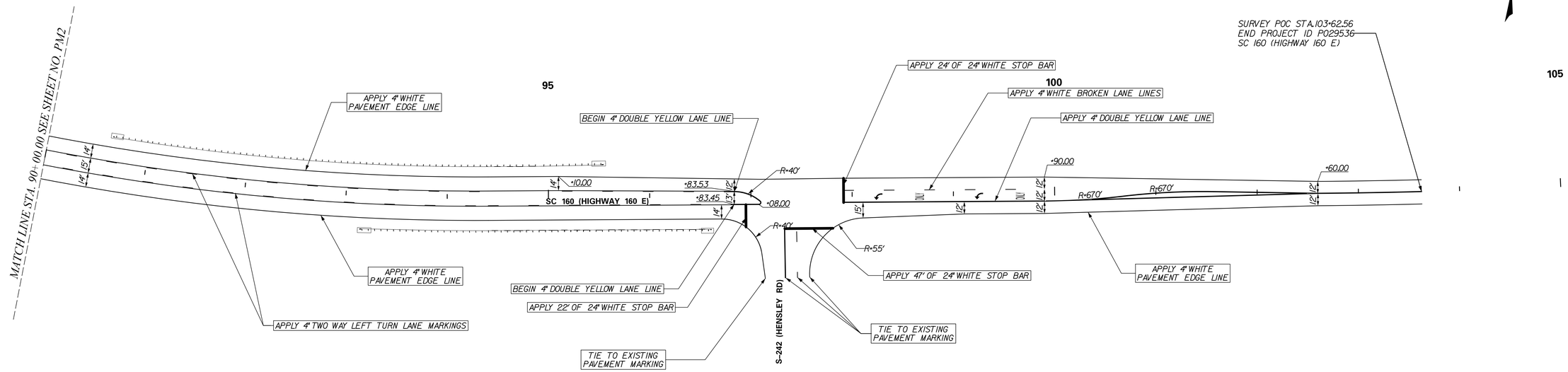
3	S.C.	YORK	P029536	11149-010	SC 160	PM3

FINAL PLANS



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

SOUTH CAROLINA — No. 22780 — REGISTERED PROFESSIONAL ENGINEER — CARSTEN — 10/12/2022

50 0 50 100
SCALE FEET

STV 100 Years — STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

PAVEMENT MARKING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. PM3

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	SN1

FINAL PLANS

ITEMIZED LISTING OF ESTIMATED QUANITITIES

FLAT SHEET, REFLECTORIZED, FIXED SIZE AND MESSAGE SIGNS

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) W	SIZE (IN.) H	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)
M1-15-20	**TYPE III**	20	4	0.556	2	1.112
M1-5-30-160	**TYPE III**	30	24	5.000	2	10.000
M3-2-24-BW	**TYPE III**	24	12	2.000	1	2.000
M3-4-24-BW	**TYPE III**	24	12	2.000	1	2.000
R1-1-36	**TYPE III**	36	36	7.456	3	22.368
R2-1-24-45	**TYPE III**	24	30	5.000	3	15.000
W14-1-30	TYPE III	30	30	6.250	3	18.750
W2-7L-30	TYPE III	30	30	6.250	2	12.500
W3-3-30	TYPE III	30	30	6.250	1	6.250

SIGN NUMBER	SIGN SURFACE	SIZE (IN.) W	SIZE (IN.) H	AREA (SQ. FT.)	QUANTITIY	TOTAL AREA (SQ. FT.)

DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	SN2

FINAL PLANS

ITEMIZED LISTING OF ESTIMATED QUANITITIES

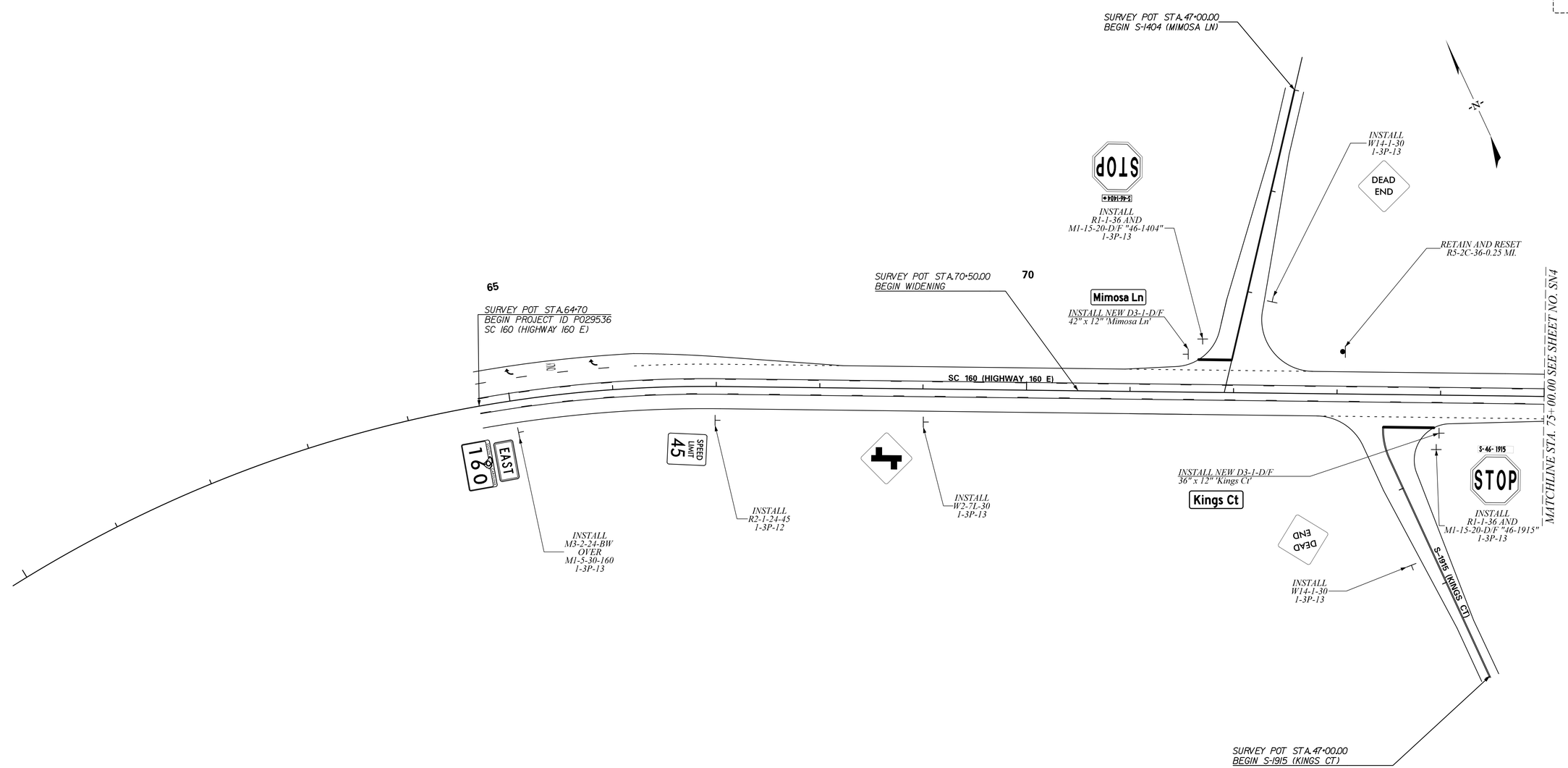
MULTIPLE PANEL SIGN ATTACHED TO MULTIPLE PANEL SIGN WITH TWO 5.00 FT. 3P U-SECTION INCLUDING SUPPORTS				
6080200	PANELS NOT REQUIRING ANY COPY REPOSITIONING COMPLETE WITH NUMERALS AND "EXIT COPY"			
SIGN NUMBER	STATION	SIGN SURFACE TYPE	SIZE (FEET) WIDTH X HEIGHT	AREA (SQ. FT.)

DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	SN3

FINAL PLANS



NOTES:
- SEE SCDOT STANDARD DRAWINGS SECTION 650-000 THROUGH SECTION 651-000 FOR SIGNING DETAILS
- REMOVE ALL EXISTING SIGNING WITHIN PROJECT LIMITS PER THE RCE
- NEW SIGN PLACEMENT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.
- THE RCE SHALL APPROVE ALL NEW SIGNING PLACEMENT AND MAKE ADJUSTMENTS BASED ON SITE CONDITIONS.
- SEE SHEETS PMI-PM3 FOR PAVEMENT MARKING DETAILS
- EXISTING SIGNS SHALL BE RETAINED/REPLACED AS DIRECTED BY THE RCE.
- SIGN DEPICTIONS SHOWN ARE NOT TO SCALE AND ARE FOR INFORMATION ONLY

PROPOSED SIGN
EXISTING SIGN

SCALE 50 0 50 100 FEET

SOUTH CAROLINA
STV INCORPORATED
No. C03338
CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
10/12/2022

STV 100 Years STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

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

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

SIGNING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. SN3

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10/12/2022

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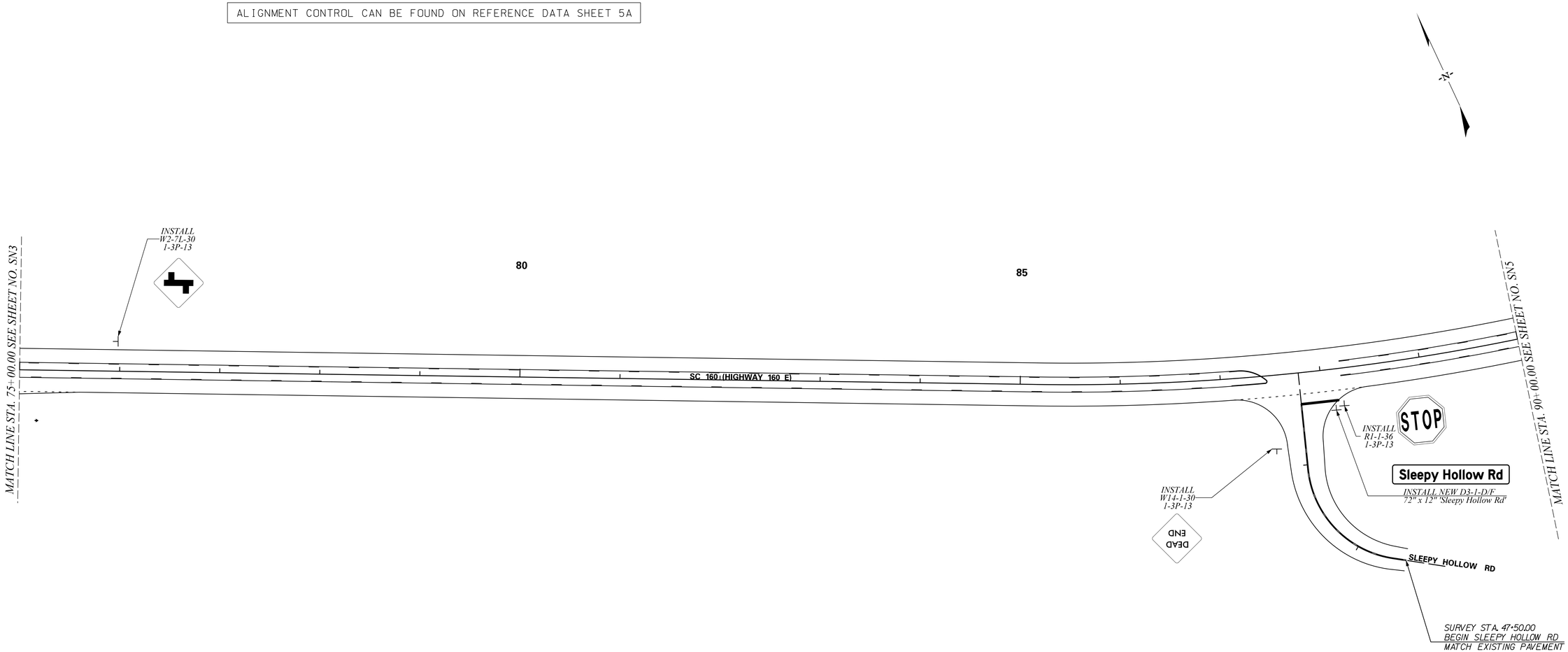
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	SN4

FINAL PLANS

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A



PROPOSED SIGN

EXISTING SIGN

NOTES:
- SEE SCDOT STANDARD DRAWINGS SECTION 650-000 THROUGH SECTION 651-000 FOR SIGNING DETAILS
- REMOVE ALL EXISTING SIGNING WITHIN PROJECT LIMITS PER THE RCE
- NEW SIGN PLACEMENT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.
- THE RCE SHALL APPROVE ALL NEW SIGNING PLACMENT AND MAKE ADJUSTMENTS BASED ON SITE CONDITIONS.
- SEE SHEETS PM1-PM3 FOR PAVEMENT MARKING DETAILS
- EXISTING SIGNS SHALL BE RETAINED/REPLACED AS DIRECTED BY THE RCE.
- SIGN DEPICTIONS SHOWN ARE NOT TO SCALE AND ARE FOR INFORMATION ONLY

SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARLSTEN
10/12/2022

50 0 50 100
SCALE FEET

STV 100 Years
STV Incorporated
2430 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

SIGNING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. SN4

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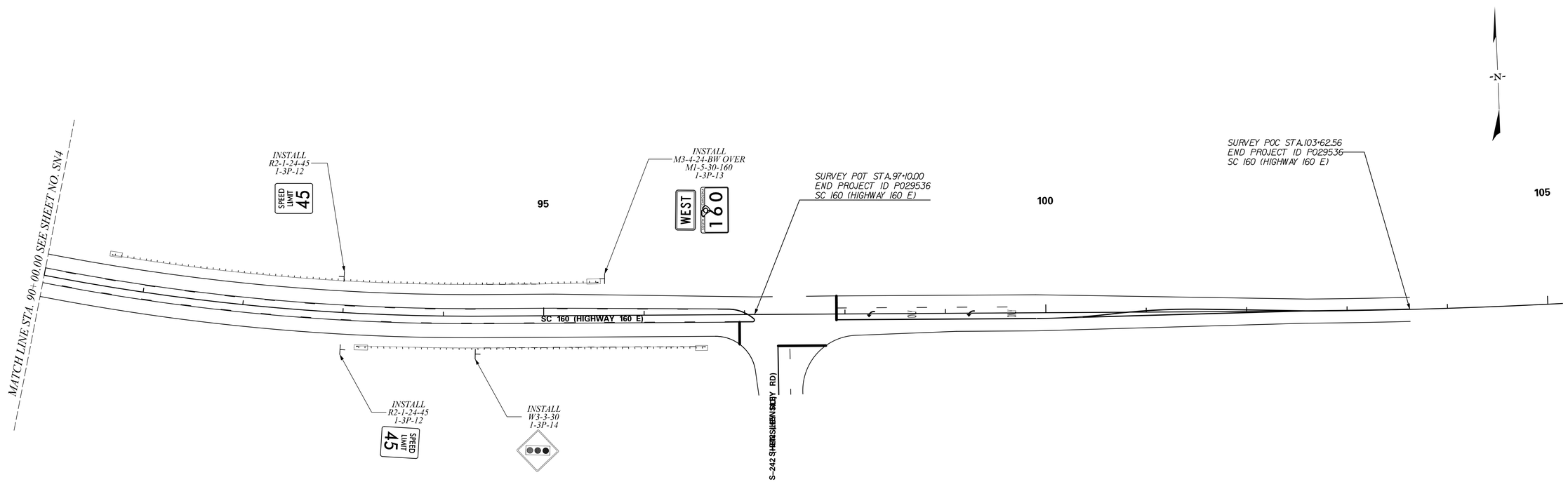
FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	SN5

FINAL PLANS

ALIGNMENT CONTROL CAN BE FOUND ON REFERENCE DATA SHEET 5A



PROPOSED SIGN

EXISTING SIGN

NOTES:
- SEE SCDOT STANDARD DRAWINGS SECTION 650-000 THROUGH SECTION 651-000 FOR SIGNING DETAILS
- REMOVE ALL EXISTING SIGNING WITHIN PROJECT LIMITS PER THE RCE
- NEW SIGN PLACEMENT SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.
- THE RCE SHALL APPROVE ALL NEW SIGNING PLACMENT AND MAKE ADJUSTMENTS BASED ON SITE CONDITIONS.
- SEE SHEETS PM1-PM3 FOR PAVEMENT MARKING DETAILS
- EXISTING SIGNS SHALL BE RETAINED/REPLACED AS DIRECTED BY THE RCE.

SOUTH CAROLINA — STV INCORPORATED NO. C03338 — CERTIFICATE OF AUTHORIZATION

DocuSigned by: SOUTH CAROLINA — No. 22780 — CHRISTOPHER E. CARLTEN — 10/12/2022

50 0 50 100
SCALE FEET

STV 100 Years
STV Incorporated
2460 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)

SIGNING PLAN

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. SN5

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10/12/2022

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FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	G1

FINAL PLANS

EMBANKMENT NOTES:
- CUT BENCHES AS SPECIFIED IN SUBSECTION 205.4.4 OF THE STANDARD SPECIFICATIONS.
- BASED ON THE BORINGS AND THE CULVERT EXTENSION INVERT ELEVATIONS, EXCAVATION INTO PWR AND/OR ROCK COULD BE REQUIRED DURING CONSTRUCTION OF THE CULVERT EXTENSION.

BORROW MATERIALS:
- BORROW MATERIALS SHALL MEET THE REQUIREMENTS OF SUBSECTION 203.2.1.8 OF THE STANDARD SPECIFICATIONS.
- IF CONDITIONS ARE ENCOUNTERED THAT REQUIRE MUCK EXCAVATION, USE NO. 57 STONE AS BORROW MATERIAL.
- WHEN USING NO. 57 STONE TO BACKFILL UNDERCUT AREAS, USE A NON-WOVEN GEOTEXTILE TO SEPARATE THE NO. 57 STONE FROM THE SURROUNDING SOILS.
- THE DEPTH TO WHICH MUCKING IS REQUIRED IS DEPENDENT UPON ENCOUNTERING A SUITABLE BEARING MATERIAL WITHIN THE EXCAVATION AS DETERMINED BY THE GEOTECHNICAL ENGINEER OF RECORD.

MUCK EXCAVATION NOTES: - SHALL BE PAID AS UNCLASSIFIED 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.
- ADDITIONAL AREAS DISCOVERED TO DEFLECT OR SETTLE MAY REQUIRE MUCK EXCAVATION OR UNDERCUTTING AS DIRECTED BY THE RCE.
- THE DEPTH OF UNDERCUTTING OR MUCK EXCAVATION TO BE DETERMINED BY THE RCE WITH CONSULTATION WITH THE GEOTECHNICAL ENGINEER OF RECORD.
- CONTRACTOR SHALL USE 57 STONE TO BACKFILL THE MUCK EXCAVATIONS.
- IT IS ANTICIPATED THAT A GEOGRID FOR STABILIZATION MEETING THE REQUIREMENTS OF SC-M-203-1(07/17), GEOSYNTHETIC MATERIALS FOR SEPARATION AND STABILIZATION WILL NEED TO BE PLACED ALONG THE BOTTOM OF THE MUCK EXCAVATIONS.
- PLACE A GEOTEXTILE FOR SEPARATION MEETING THE REQUIREMENTS OF SC-M-203-1(07/17), GEOSYNTHETIC MATERIALS FOR SEPARATION AND STABILIZATION IN THE MUCK EXCAVATIONS SO THAT THE 57 STONE IS SEPARATED ON ALL SIDES FROM THE SURROUNDING AND UNDERLYING SOILS.
- AFTER COMPLETION OF BACKFILLING THE MUCK EXCAVATIONS WITH 57 STONE, PLACE A GEOTEXTILE FOR SEPARATION MEETING THE REQUIREMENTS OF SC-M-203-1(07/17), GEOSYNTHETIC MATERIALS FOR SEPARATION AND STABILIZATION BETWEEN THE 57 STONE AND THE FIRST LIFT OF EMBANKMENT FILL.
- AFTER THE PLACEMENT OF AN INITIAL LIFT OF MATERIAL OVER THE GEOSYNTHETICS (GEOGRID AND GEOTEXTILE), EXPOSE APPROXIMATELY 1 SQUARE FOOT OF THE GEOSYNTHETICS FOR VISUAL OBSERVATION TO IDENTIFY ANY DAMAGE CAUSED BY THE PLACEMENT OF THE MATERIAL.
- AFTER ASCERTAINING THAT THE GEOSYNTHETIC HAS NOT BEEN DAMAGED, REPLACE AND COMPACT THE MATERIAL EXCAVATED TO ALLOW OBSERVATION OF THE GEOSYNTHETICS.
- IF THE GEOSYNTHETIC APPEARS TO BE DAMAGED, EXPOSE A LARGER AREA AND CONTACT THE GEOTECHNICAL ENGINEER OF RECORD FOR INSTRUCTIONS.
- DAMAGED AREAS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE DEPARTMENT.

SC 160 TOES OF SLOPE MUCK EXCAVATION

BEGIN STATION	END STATION	DIRECTION	BEGIN DISTANCE FROM PROPOSED CENTERLINE, FT.	END DISTANCE FROM PROPOSED CENTERLINE, FT.	ESTIMATED DEPTH BELOW EXISTING GROUND SURFACE, FT.
92+25	92+75	LEFT	70	91	4 TO 5
92+75	93+25	LEFT	65	94	4 TO 5
94+75	95+25	RIGHT	54	68	3.5 TO 5.5
95+25	95+50	RIGHT	61	69	3.5 TO 5.5

SC 160 CULVERT EXTENSION AREA MUCK EXCAVATION

BEGIN STATION	END STATION	DIRECTION	BEGIN DISTANCE FROM PROPOSED CENTERLINE, FT.	END DISTANCE FROM PROPOSED CENTERLINE, FT.	ESTIMATED DEPTH BELOW EXISTING GROUND SURFACE, FT.
95+55	95+75	RIGHT	57	79	3.5 TO 5.5

NOTE: STATION AND OFFSET RANGES INDICATE THE APPROXIMATE CULVERT EXTENSION LOCATION. MUCK EXCAVATION SHOULD BE PERFORMED IN THE CULVERT EXTENSION FOOTPRINT, AS WELL AS TO A DISTANCE EQUAL TO THE DEPTH OF THE MUCK EXCAVATION FROM THE EDGES AND END OF THE CULVERT EXTENSION.

GEOTECHNICAL BID ITEMS AND QUANTITIES

ITEM NO.	PAY ITEM	ESTIMATED QUANTITY	INCLUSION QUANTITY
2031000	UNCLASSIFIED EXCAVATION	450 CUBIC YARDS	225 CUBIC YARDS
2052000	NO. 57 STONE FOR BACKFILL	700 TONS	350 TONS
2036020	GEOTEXTILE FOR SEPARATION	900 SQUARE YARDS	450 SQUARE YARDS
2037030	GEOGRID FOR STABILIZATION	460 SQUARE YARDS	230 SQUARE YARDS

NOTE: QUANTITIES ASSOCIATED WITH MUCK EXCAVATION 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 APPRVOAL FROM THE RCE UNLESS SPECIFIC AREAS AND DETAILS ARE DEFINED IN THE PLANS. ALL MUCKING OR UNDERCUT SHALL BE INCLUDED AND PAID FOR AS 2031000 UNCLASSIFIED EXCAVATION. ANY DEWATERING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO UNCLASSIFIED EXCAVATION, AND SHALL NOT HAVE A SEPARATE PAY ITEM.

EARTHBORNE VIBRATION MONITORING:
LEVEL I- YORK COUNTY HAS ELECTED TO NOT MONITOR THE SITE; THEREFORE, NO EARTH-BORNE VIBRATION MONITORING IS REQUIRED.

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION S & ME, INC. No. C00473

Document ID: Nathaniel Bradley

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 37747 NATHANIEL R. BRADLEY 5/18/2023

REV. NO.	BY	DATE	DESCRIPTION OF REVISION
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E) GEOTECHNICAL DETAILS SHEET

SCALE NTS S.C. ROUTE 160 DWG. NO. G1

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5/18/2023

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	ECI

FINAL PLANS

EROSION CONTROL SYMBOL LEGEND

- SEDIMENT DAM
- PIPE INLET SEDIMENT DAM
- DITCH CHECK
- INLET PROTECTION
- ROLLED EROSION CONTROL PRODUCT

SURVEY POC STA.64+70.00
BEGIN PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

SURVEY POT STA.70+50.00
BEGIN ROADWAY WIDENING
SC 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT

RELOCATE SC 160 CENTERLINE
STA. 50+00.00 TO STA. 114+14.43
FROM FILE NO. 46J88B
FORT MILL SOUTHERN BYPASS PHASE 2

RELOCATE KINGS CT. CENTERLINE
STA. 46+98.65 TO STA. 50+00.00

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

PLACE 11 TONS OF CLASS B RIPRAP
PLACE 18 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

DITCH CHECKS @ 10' SPACING

DITCH CHECKS @ 30' SPACING

DITCH CHECKS @ 15' SPACING

DO NOT DISTURB TREES OR ROOTS

ALL INLET PROTECTION SHALL BE TYPE B, UNLESS OTHERWISE NOTED

MATCH TO SHEET NO. EC2
STA. 75+00.00

POT 46+98.65

POT 45+74.64

60 65 70 75

50 0 50 100
scale feet

DocuSigned by: Amy Paris Peters
SIGNATURE
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
10/12/2022
AMY PARIS PETERS

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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
6			
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (TOM HALL RD.)
EROSION CONTROL PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. ECI

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	EC2

FINAL PLANS

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

DITCH CHECKS @ 30' SPACING

CONSTRUCT SEDIMENT DAM 002

PLACE 14 TONS OF CLASS B RIPRAP
PLACE 22 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

DITCH CHECKS @ 30' SPACING

DITCH CHECKS @ 30' SPACING

MATCH TO SHEET NO. EC1
STA. 75+00.00

MATCH TO SHEET NO. EC3
STA. 90+00.00

75 80 85 90

CONSTRUCT SEDIMENT DAM 001

PLACE 8 TONS OF CLASS B RIPRAP
PLACE 15 S.Y. GEOTEXTILE TYPE C, CLASS 2
FOR EROSION CONTROL UNDER RIPRAP

RELOCATE SLEEPY HOLLOW RD. CENTERLINE
STA. 47+63.79 TO STA. 49+92.29

EROSION CONTROL SYMBOL LEGEND

- *SEDIMENT DAM*
- *PIPE INLET SEDIMENT DAM*
- *DITCH CHECK*
- *INLET PROTECTION*
- *ROLLED EROSION CONTROL PRODUCT*

SOUTH CAROLINA — No. 21220 — 10/12/2022 — JEFF PARIS PETERS

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

50 0 50 100
scale feet

STV 100 Years — 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
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (TOM HALL RD.)
EROSION CONTROL PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. EC2

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10/12/2022

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	EC3

FINAL PLANS

EROSION CONTROL SYMBOL LEGEND

- SEDIMENT DAM
- PIPE INLET SEDIMENT DAM
- DITCH CHECK
- INLET PROTECTION
- ROLLED EROSION CONTROL PRODUCT

MATCH TO SHEET NO. EC2 STA. 90+00.00

DITCH CHECKS @ 30' SPACING

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. GEOTEXTILE TYPE C, CLASS 2 FOR EROSION CONTROL UNDER RIPRAP

EXISTING RIPRAP IN THE AREA TO REMAIN - TYPICAL

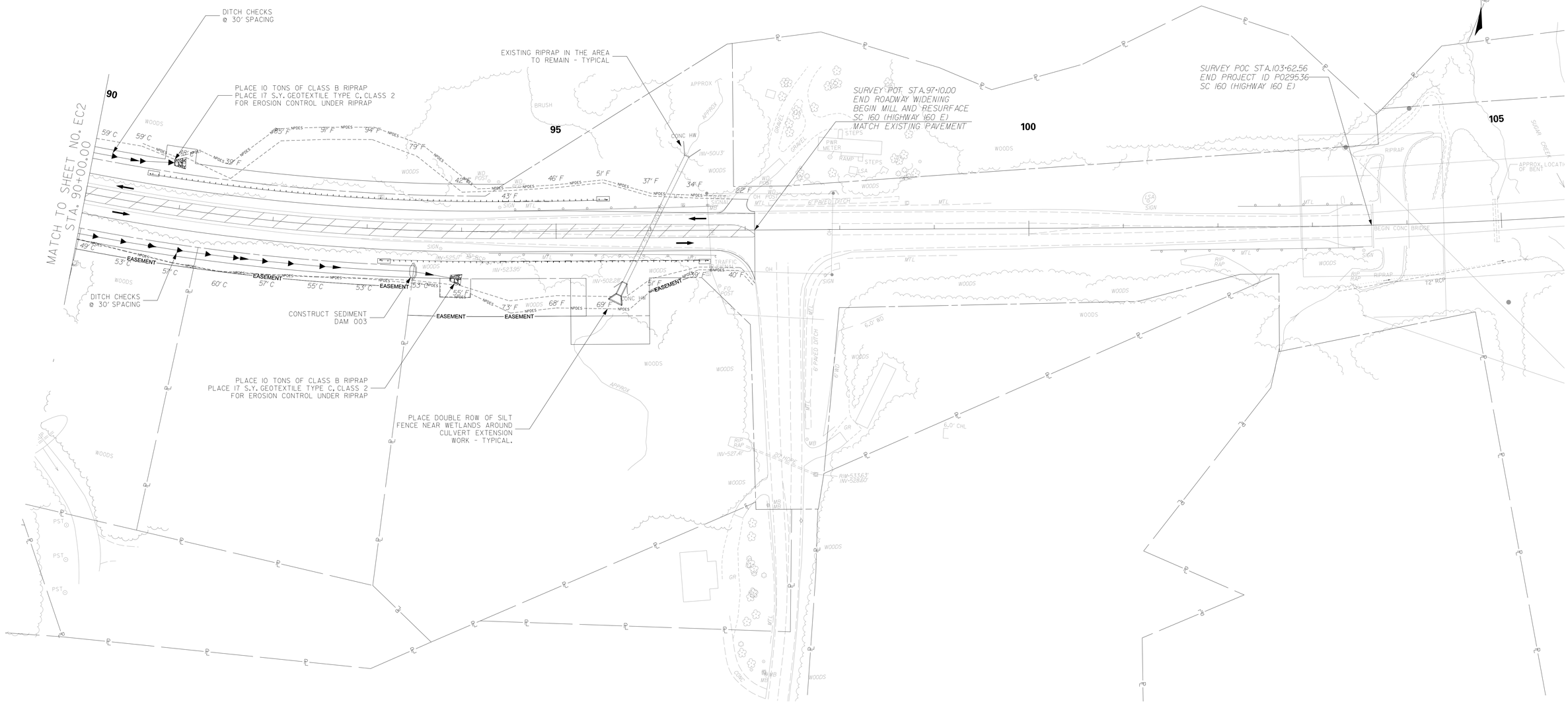
SURVEY POT STA. 97+10.00
END ROADWAY WIDENING
BEGIN MILL AND RESURFACE
SC 160 (HIGHWAY 160 E)
MATCH EXISTING PAVEMENT

SURVEY POC STA. 103+62.56
END PROJECT ID P029536
SC 160 (HIGHWAY 160 E)

CONSTRUCT SEDIMENT DAM 003

PLACE 10 TONS OF CLASS B RIPRAP
PLACE 17 S.Y. GEOTEXTILE TYPE C, CLASS 2 FOR EROSION CONTROL UNDER RIPRAP

PLACE DOUBLE ROW OF SILT FENCE NEAR WETLANDS AROUND CULVERT EXTENSION WORK - TYPICAL.



DocuSigned by: ANTHONY C. PARIS PE
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
10/12/2022
SOUTH CAROLINA
STV INCORPORATED NO. C03318
CERTIFICATE OF AUTHORIZATION

50 0 50 100
scale feet

STV 100 Years
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
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PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (TOM HALL RD.)
EROSION CONTROL PLAN SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. EC3

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	EC4

FINAL PLANS

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	1

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE
SC 160	91+00	Lt	Sugar Creek	Sugar Creek
SC 160	94+00	Rt	Sugar Creek	Sugar Creek

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE /	ZONE
SC 160	70+14	77+79	CfB3 (Fine)	Piedmont
SC 160	77+79	85+01	HaB (Fine)	Piedmont
SC 160	85+01	85+98	CfB3 (Fine)	Piedmont
SC 160	85+98	94+79	PaE2 (Fine)	Piedmont
SC 160	94+79	96+30	ChA (Fine)	Piedmont
SC 160	96+30	103+05	PaE2 (Fine)	Piedmont
SC 160	103+05	104+65	ChA (Fine)	Piedmont
SC 160	105+68	108+69	Ch (Fine)	Piedmont
SC 160	108+69	110+20	CeC3 (Fine)	Piedmont
Hensley Road	47+00	50+00	PaE2 (Fine)	Piedmont
Sleepy Hollow	47+11	49+92	PaE2 (Fine)	Piedmont
Kings CT	47+00	50+00	CfB3 (Fine)	Piedmont
Mimosa	46+68	49+43	CeC2 (Fine)	Piedmont
Mimosa	49+43	50+00	CfB3 (Fine)	Piedmont

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH	SLOPES x : 1 FRON	SLOPES x : 1 BACK	MSY
Mimosa	47+50	49+50	Rt	2.0	0	6	6.0	0.541
Mimosa	47+50	49+50	Lt	2.0	0	4	6.0	0.454
Kings Ct.	47+00	49+50	Rt	2.0	0	4	2.0	0.353
Kings Ct.	47+00	49+50	Lt	2.5	0	4		0.286
Sleepy Hollow	47+50	48+00	Lt	3.5	0	4	2.0	0.124
Sleepy Hollow	48+00	49+50	Lt	2.5		6		0.253
Sleepy Hollow	48+00	49+50	Rt	4.5		6		0.456
SC 160	70+50	72+00	Rt	2.0		6		0.203
SC 160	74+00	74+50	Rt	2.0		6		0.068
SC 160	80+00	84+00	Rt	3.0	4	6	2.0	1.287
SC 160	84+00	88+00	Rt	5.0		6		1.352
SC 160	88+50	93+50	Rt	4.5	0	6	2.0	2.080
SC 160	93+50	97+00	Rt	10.0		4		1.603
SC 160	70+50	72+00	Lt	2.0		4		0.137
SC 160	72+50	74+00	Lt	2.0	0	6	2.0	0.277
							TOTAL	9.474

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)
Kings Ct.	49+39	49+67	Lt	2	4		0	1	0.026		
SC 160	72+00	73+00	Rt	2	4		0	1	0.092		
SC 160	86+00	88+50	Lt	2	2	4	0	1	0.353		
SC 160	74+50	78+00	Rt	2	6	2	0	1	0.647		
SC 160	78+00	80+00	Rt	1.5	4	2	0	1	0.212		
								TOTALS	1.330		

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	STATION TO STATION		SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
						TOTAL	

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	SPILLWAY BOTTOM	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE	SEDIMENT STORAG	OUTFALL CHANNE	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH
001	SC 160	83+70	Rt	DRAINED	120	39	1.0	6:1 & 2:1	12	24.0	B	3240	0.75	N/A	N/A	N/A
002	SC 160	83+70	Lt	DRAINED	110	16	1.0	4:1 & 2:1	9	4.0	B	770	0.50	N/A	N/A	N/A
003	SC 160	93+50	Rt	DRAINED	100	16	1.1	6:1 & 2:1	9	3.0	B	850	0.50	N/A	N/A	N/A

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10/12/2022

DocuSigned by: Anthony Paris
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21220
10/12/2022
ANTHONY PARIS PE
SOUTH CAROLINA
STV INCORPORATED
No. C0338
CERTIFICATE OF AUTHORIZATION

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
6			
5			
4			
3			
2			
1			

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (TOM HALL RD.)
EROSION CONTROL DATA SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. EC4

PROLINE.DGN

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FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	111149-010	SC 160	EC5

FINAL PLANS

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE/ROAD NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	2

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	SID	NAME OF RECEIVING WATERS	NAME OF ULTIMATE

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE /	ZONE

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH	SLOPES x : 1 FRON	SLOPES x : 1 BACK	MSY
SC 160	74+00	75+50	Lt	4.0	4	4	2.0	0.491
SC 160	75+50	78+00	Lt	5.0		4		0.573
SC 160	78+00	82+50	Lt	2.5	0	6	2.0	1.040
SC 160	82+50	84+00	Lt	3.0	4	4	2.0	0.385
SC 160	84+00	86+00	Lt	3.0	0	6	4.0	0.680
SC 160	88+50	90+50	Lt	4.0	0	6	2.0	0.739
SC 160	90+50	97+00	Lt	20.0		2		3.230
							TOTAL	7.137

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	

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	SPILLWAY BOTTOM	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE	SEDIMENT STORAG	OUTFALL CHANNE	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH

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10/12/2022

DocuSigned by:
SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 21220
10/12/2022
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION

STV 100 Years
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REV. NO.	BY	DATE	DESCRIPTION OF REVISION
6			
5			
4			
3			
2			
1			

PREPARED BY _____ CHK'D BY _____ REVIEWED BY _____

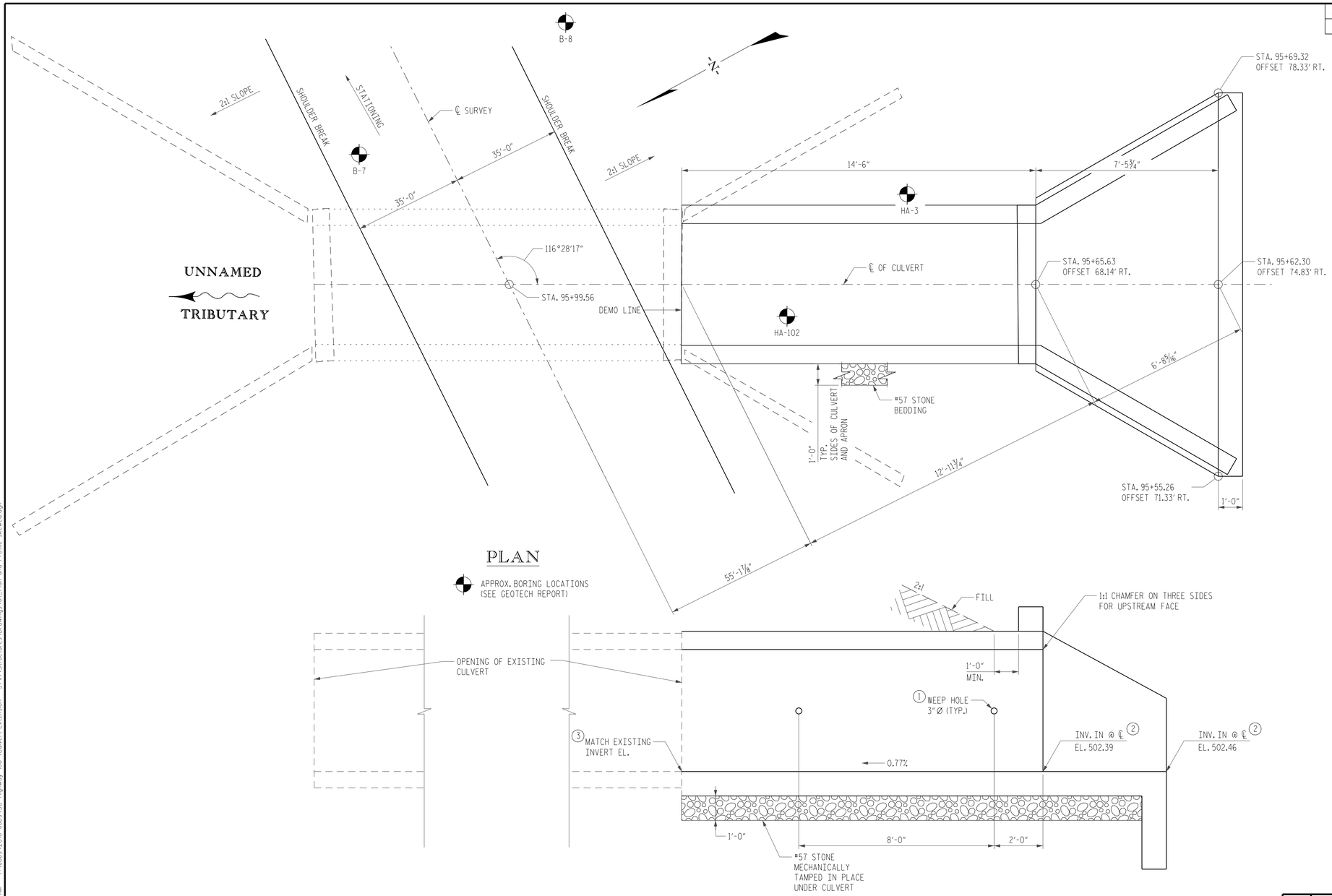
YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (TOM HALL RD.)
EROSION CONTROL DATA SHEET
S.C. ROUTE 160

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. EC5

PROLINE.DGN

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010		S1



PLAN

APPROX. BORING LOCATIONS
(SEE GEOTECH REPORT)

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 SHEETS S2-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 0.77%
3. CONTRACTOR SHALL CLEAN OUT THE EXISTING SEDIMENT AND MATCH TOP OF BOTTOM SLAB TO EXISTING ELEVATION. THIS WILL BE PAID AS UNCLASSIFIED EXCAVATION.

GENERAL NOTES

REFERENCED SPECIFICATIONS:
AASHTO 2017 LRFD BRIDGE DESIGN SPECIFICATIONS 8TH ED.

LIVE LOAD: AASHTO HL-93.

DESIGN FILL HEIGHT = 17'-6"

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, 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 T02.4.19 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.

CONTRACTOR IS RESPONSIBLE FOR MAINTAINING OR DIVERTING WATER FLOW DURING THE CONSTRUCTION OF THE CULVERT.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 19527
JAMES D. FITZ MORRIS
6-1-2021

SOUTH CAROLINA
KCI TECHNOLOGIES INC.
CONSULTING ENGINEERS
No. C00651
CERTIFICATE OF AUTHORIZATION

KCI TECHNOLOGIES
ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (1)

SC HIGHWAY 160 5'x5' R.C. BOX CULVERT EXTENSION

STA. 95+99.56 DESIGN FILL: 17'-6" 2:1 FILL SLOPE

COUNTY: YORK
ROUTE: SC-160

	BY	CHK.	DATE
REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	07-20
DES.	CNB	JDF	07-20

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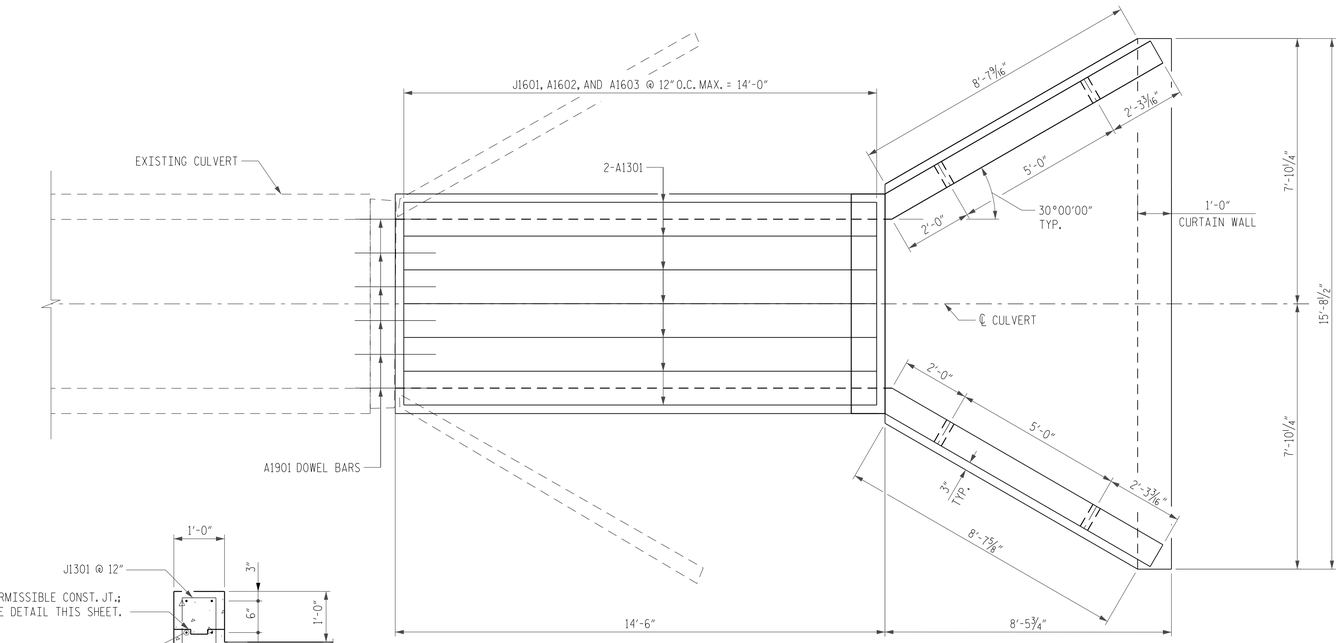
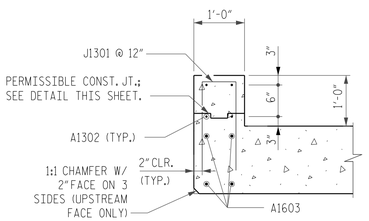
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010		S2

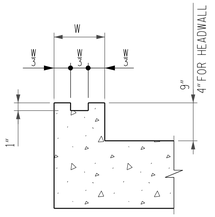


PLAN



HEADWALL DETAIL

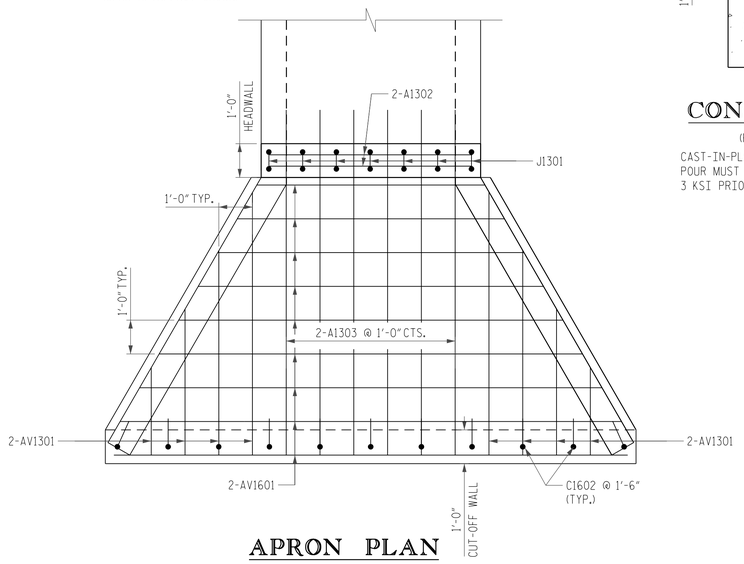
(SLAB REINF. NOT SHOWN)



CONST. JT. DETAIL

(REINF. NOT SHOWN)

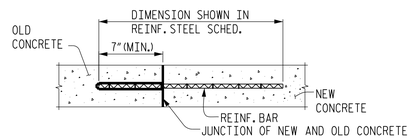
CAST-IN-PLACE CONCRETE IN A COMPLETED POUR MUST REACH MINIMUM STRENGTH OF 3 KSI PRIOR TO PLACING NEW CONCRETE.



APRON PLAN

ESTIMATED QUANTITIES

BID ITEM	ITEM	UNIT	TOTAL
7011402	CONC./STRUC. - CLASS 4000 (CULVERT)	CY	18.47
7031100	REINF. STEEL FOR STRUCT. (RDWAY)	LBS	2369
2052000	No. 57 STONE FOR BACKFILL	TON	10.1
2028605	CULVERT EXTENSION PREPARATION	EA	1
2041000	STRUCTURE EXCAVATION FOR CULVERT	CY	18
2041010	DEWATERING SYSTEM	LS	LUMP SUM
2036020	GEOTEXTILE, SEPARATION	SY	25.1



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 ¼".

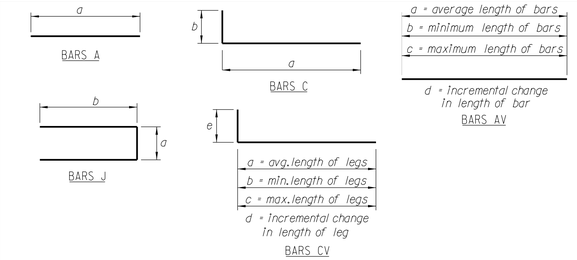
PROVIDE AND INSTALL ANCHORAGES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATION FOR ADHESIVELY BONDED ANCHORS AND DOWELS. USE AN ADHESIVE BONDING SYSTEM THAT HAS A MINIMUM BOND STRENGTH OF 1.5 KSI. FIELD TESTING OF THE ANCHORAGES IS NOT REQUIRED.

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	48	14'-0"	-	-	-	-	14'-0"
A1302	4	6'-0"	-	-	-	-	6'-0"
A1303	12	10'-3"	-	-	-	-	10'-3"
A1304	16	10'-3"	-	-	-	-	10'-3"
A1305	4	5'-11"	-	-	-	-	5'-11"
A1306	4	10'-11"	-	-	-	-	10'-11"
AV1301	4 (1)	5'-2¼"	2'-7⅛"	7'-9⅜"	1'-10"	-	20'-9"
A1602	30	6'-7"	-	-	-	-	6'-7"
A1603	30	6'-1"	-	-	-	-	6'-1"
A1604	2	15'-3"	-	-	-	-	15'-3"
AV1601	9 (2)	10'-11½"	6'-9"	15'-2½"	2'-2½"	-	98'-8"
A1901	20	3'-0"	-	-	-	-	3'-0"
C1602	11	2'-6"	1'-0"	-	-	-	3'-6"
CV1601	10 (3)	5'-0"	3'-6½"	6'-5½"	4"	2'-0"	50'-0"
J1301	7	8"	2'-0"	-	-	-	2'-8"
J1601	30	6'-1"	4'-5½"	-	-	-	15'-0"

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

(1) 4 SETS OF EACH SERIES. 4 BARS PER SERIES.

(2) 2 SETS OF EACH SERIES. 9 BARS PER SERIES.

(3) 4 SETS OF EACH SERIES. 10 BARS PER SERIES.

KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER JAMES D. FITZ MORRIS No. 19527

6-1-2021

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	07-20
DES.	CNB	JDF	07-20
	BY	CHK.	DATE

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS (2)

SC HIGHWAY 160 5'x5' R.C.BOX CULVERT EXTENSION

STA. 95+99.56 DESIGN FILL: 17'-6" 2:1 FILL SLOPE

COUNTY YORK | ROUTE SC-160

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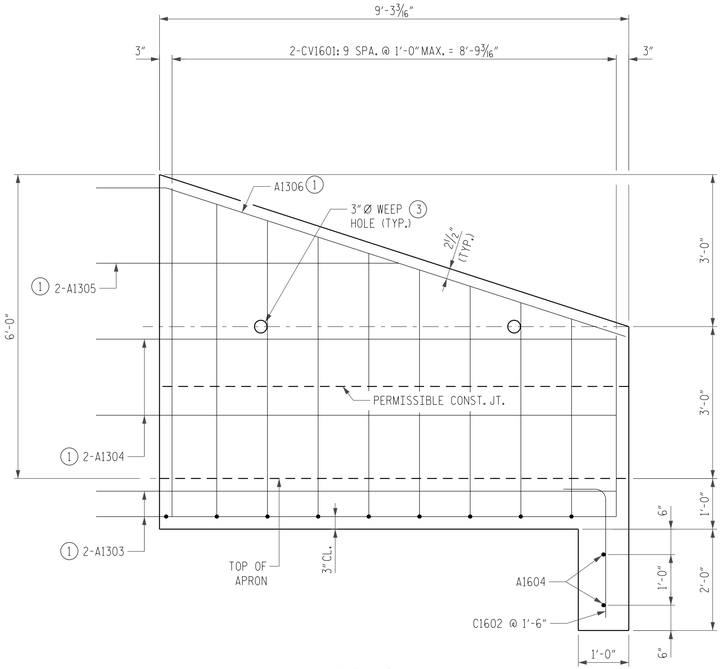
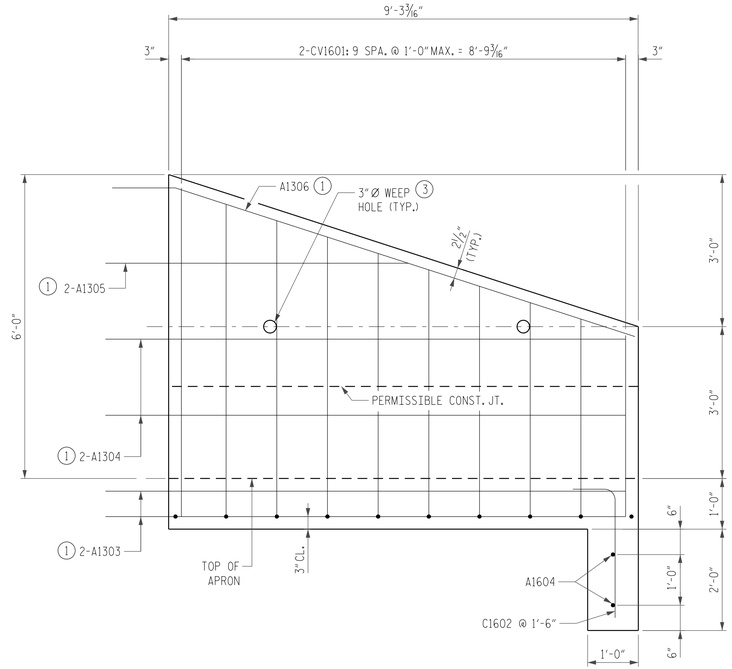
FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010		S3



SECTION A-A

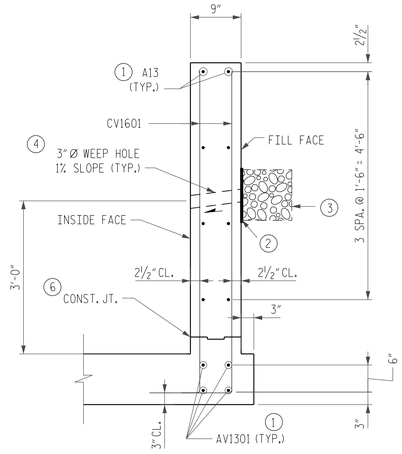
(SHOWING WING WALL REINF.)

NOTE: INSIDE FACE SHOWN, OUTSIDE FACE SIMILIAR.



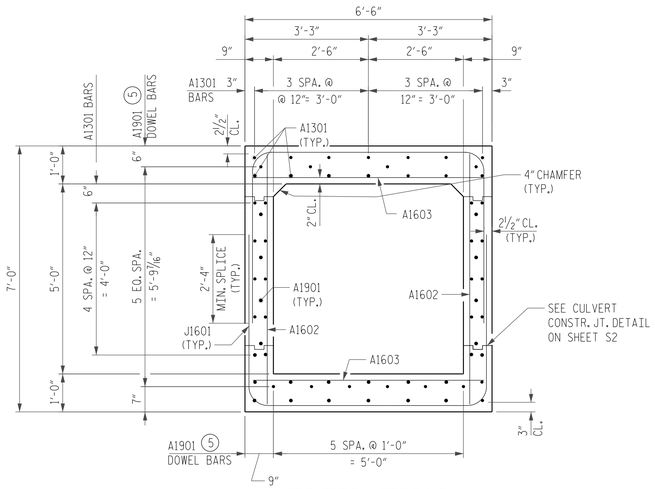
SECTION B-B

(SHOWING WING WALL REINF.)

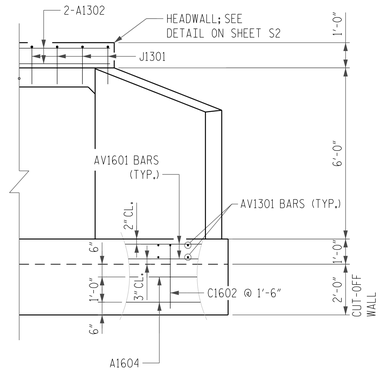


SECTION E-E

(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 SQ.. 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

SOUTH CAROLINA REGISTERED No. 19587 PROFESSIONAL ENGINEER JAMES D. FITZ MORRIS
02/26/2021

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	07-20
DES.	CNB	JDF	07-20
	BY	CHK.	DATE

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

CULVERT DETIALS (3)

SC HIGHWAY 160 5'x5' R.C.BOX CULVERT EXTENSION

STA. 95+99.56 DESIGN FILL: 17'-6" 2:1 FILL SLOPE

COUNTY: YORK ROUTE: SC-160

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FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010		S4

SCDOT Soil Test Log

Project ID:	P029536			**County:**	York	**Boring No.:**	B-7
Site Description:	SC 160 (S&ME Project 6235-16-017)					**Route:**	Hwy 160 East
Eng./Geo.:	N. Bradley	**Boring Location:**	96+28	**Offset:**	15 LT	**Alignment:**	REL160
Elev.:	521.8 ft	**Latitude:**	35.0058417	**Longitude:**	-80.9054991	**Date Started:**	3/7/2017
Total Depth:	18.7 ft	**Soil Depth:**	18.7 ft	**Core Depth:**	0 ft	**Date Completed:**	3/7/2017
Bore Hole Diameter (in):	8	**Sampler Configuration**		**Liner Required:**	Y (N)	**Liner Used:**	Y (N)
Drill Machine:	CME 550X	**Drill Method:**	3-1/4" HSA	**Hammer Type:**	Automatic	**Energy Ratio:**	93%
Core Size:	N/A	**Driller:**	J. Little	**Groundwater:**	**TOB** Dry	**24HR**	N/A

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value
	0.0	**PAVEMENT** - Asphalt (8.5 Inches) and Sand Clay Base (11 Inches)		0.7	SS-1	6	7	9	16
	1.6	**FILL** - Very Stiff, Moist, Red Gray Brown Silty CLAY (CH / A-7-6), NMC=13.7%		3.0	SS-2	3	3	4	7
516.8	4.5	**FILL** - Firm, Wet, Brown Red Gray Clayey SILT (MH / A-7-5)		4.5	SS-3	25	13	8	21
	6.3	**FILL** - Medium Dense, Dry, Gray Red, Fine to Medium, Clayey SAND (SC / A-2-6)		6.5	SS-4	31	6	5	11
511.8		**FILL** - Stiff to Very Soft, Moist, Red Brown, with Rock Fragments, Sandy CLAY (CL / A-6)		8.5	SS-5	3	2	1	3
	12.0	**PARTIALLY WEATHERED ROCK** - Dry, Tan Gray Fine to Coarse Silty SAND (SM / A-2-4)		13.5	SS-6	5	46	50/0.2	100
506.8				18.5	SS-7	50/0.2			100
	18.7	**BORING TERMINATED AT 18.7 FT**							
501.8									
496.8									
491.8									

● SPT N VALUE ●

PL MC LL

▲ FINES CONTENT (%)

0 10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SCDOT Soil Test Log

Project ID:	P029536			**County:**	York	**Boring No.:**	B-8
Site Description:	SC 160 (S&ME Project 6235-16-017)					**Route:**	Hwy 160 East
Eng./Geo.:	T. Hill	**Boring Location:**	96+46	**Offset:**	50 RT	**Alignment:**	REL160
Elev.:	521.5 ft	**Latitude:**	35.0056604	**Longitude:**	-80.9054458	**Date Started:**	3/9/2017
Total Depth:	9.2 ft	**Soil Depth:**	9.2 ft	**Core Depth:**	0 ft	**Date Completed:**	3/9/2017
Bore Hole Diameter (in):	8	**Sampler Configuration**		**Liner Required:**	Y (N)	**Liner Used:**	Y (N)
Drill Machine:	CME 550X	**Drill Method:**	3-1/4" HSA	**Hammer Type:**	Automatic	**Energy Ratio:**	93%
Core Size:	N/A	**Driller:**	J. Little	**Groundwater:**	**TOB** Dry	**24HR**	N/A

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value
	0.0	Topsoil (2 Inches)		0.5	SS-1	2	3	2	5
	0.2	**FILL** - Firm to Very Soft, Moist to Wet, Brown Sandy CLAY (CH / A-7-6), NMC=21.6%		2.5	SS-2	2	2	2	4
516.5				4.5	SS-3	3	1	1	2
				6.5	SS-4	1	2	4	6
	9.2	**AUGER REFUSAL AT 9.2 FT**		8.5	SS-5	50/0.1			100
511.5				9.2	SS-6	50/0.1			100
506.5									
501.5									
496.5									
491.5									

● SPT N VALUE ●

PL MC LL

▲ FINES CONTENT (%)

0 10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC_DOT_YORK COUNTY SC-160 PROGER BORING LOGS_AMR.GPJ SCDOT DATA TEMPLATE_12_30_2014.GDT 9/24/21

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KCI TECHNOLOGIES INC. CONSULTING ENGINEERS No. C00651 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 19587 JAMES D. FITZ MORRIS JR.

9/24/2021

KCI TECHNOLOGIES

KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	07-20
DES.	CNB	JDF	07-20
	BY	CHK.	DATE

BORING LOGS (1)

SC HIGHWAY 160 5'x5' R.C.BOX CULVERT EXTENSION

STA. 95+99.56 DESIGN FILL: 17'-6" 2:1 FILL SLOPE

COUNTY	ROUTE
YORK	SC-160

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010		S5

SCDOT Manual Auger Log

Project ID:	P029536			**County:**	York	**Boring No.:**	HA-3
Site Description:	SC 160 (S&ME Project 6235-16-017)					**Route:**	Hwy 160 East
Driller:	T. Hill/ C. Kahil	**Boring Location:**	95+66	**Offset:**	68 RT	**Alignment:**	REL160
Elev.:	502.2 ft	**Latitude:**	35.0056221	**Longitude:**	-80.9057163	**Date Started:**	3/15/2017
Total Depth:	6.5 ft	**Groundwater:**	**TOB** 5.5 ft	**24 hr**	N/A	**Date Completed:**	3/15/2017
Dynamic Cone Penetrometer Test Procedure:		Sowers and Hedges (1966)					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	DCP-Value
	0.0			1.0	DCP-1	3	4	4	4
	0.2	**TOPSOIL** (2 Inches)		2.0	DCP-2	3	2	3	2
		ALLUVIUM - Very Loose Brown Tan Fine to Medium Silty SAND (SM / A-2-5), Moist to Wet		3.0	DCP-3	4	4	4	4
	3.5			4.0	DCP-4	5	6	8	7
497.2		**ALLUVIUM** - Loose Brown Tan Fine to Medium Clayey SAND (SC / A-2-6), Moist to Wet		5.0	DCP-5	6	5	6	5
	6.0			6.0	DCP-6	25+			25
	6.5	**ALLUVIUM** - Medium Dense Brown Tan Medium to Coarse Silty SAND (SM / A-2-4), Wet							
492.2		**BORING TERMINATED AT 6.5 FT**							
487.2									
482.2									
477.2									
472.2									

● DCP-VALUE ●
PL MC LL
▲ FINES CONTENT (%)
0 10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	DCP Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

MANUAL AUGER LOG YORK COUNTY SC-160 PRGER BORING LOGS_AMR.GPJ SCDOT DATA TEMPLATE_12_30_2014.GDT 9/24/21

SCDOT Manual Auger Log

Project ID:	P029536			**County:**	York	**Boring No.:**	HA-102
Site Description:	SC 160 (S&ME Project 6235-16-017)					**Route:**	Hwy 160 East
Driller:	B. Kebea	**Boring Location:**	95+65	**Offset:**	60 RT	**Alignment:**	REL160
Elev.:	502.4 ft	**Latitude:**	35.005641	**Longitude:**	-80.905719	**Date Started:**	12/9/2020
Total Depth:	6 ft	**Groundwater:**	**TOB** 3.7 ft	**24 hr**	N/A	**Date Completed:**	12/9/2020
Dynamic Cone Penetrometer Test Procedure:		Sowers and Hedges (1966)					

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	DCP-Value
	0.0			0.0	DCP-1	3	3	3		3
	0.3	Topsoil (3 inches)		1.0	DCP-2	4	2	2		3
	0.7	**ALLUVIUM** - Very Loose, Wet, Red Brown, Fine to Medium, Clayey SAND (SC / A-2-6), Trace Rootlets		2.0	DCP-3	3	2	2		2
	1.0			3.0	DCP-4	5	6	9		7
	2.5	**ALLUVIUM** - Very Loose, Wet, Brown, Fine to Medium, Silty SAND (SM / A-2-4)		4.0	DCP-5	10	9	22		14
497.4		**ALLUVIUM** - Very Loose, Wet, Brown Red, Fine to Medium, Clayey SAND (SC / A-2-6)		5.0	DCP-6	9	8	15		11
	6.0			6.0	DCP-7	25+				25
		ALLUVIUM - Loose to Medium Dense, Wet, Brown, Fine to Medium, Silty SAND (SM / A-2-4)								
492.4		**HAND AUGER REFUSAL AT 6 FEET**								
487.4										
482.4										
477.4										
472.4										

● DCP-VALUE ●
PL MC LL
▲ FINES CONTENT (%)
0 10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	DCP Dynamic Cone Penetrometer	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

MANUAL AUGER LOG YORK COUNTY SC-160 RGER.GPJ SCDOT DATA TEMPLATE_01_30_2015.GDT 9/24/21

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SOUTH CAROLINA — KCI TECHNOLOGIES INC. — CONSULTING ENGINEERS — No. C00651 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED — No. 19527 — PROFESSIONAL ENGINEER — JAMES D. FITZ

9/24/2021

KCI TECHNOLOGIES
KCI ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

REV.			
REV.			
REV.			
REVIEWED	ACM		
QUAN.			
DR.	CNB	JDF	07-20
DES.	CNB	JDF	07-20
	BY	CHK.	DATE

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

BORING LOGS (2)

SC HIGHWAY 160 5'x5' R.C.BOX CULVERT EXTENSION

STA. 95+99.56 DESIGN FILL: 17'-6" 2:1 FILL SLOPE

COUNTY	ROUTE
YORK	SC-160

FOR INFORMATION ONLY	FINAL PLANS

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	U1

SC 160 (TOM HALL RD) ROAD WIDENING PID 029536 YORK COUNTY, SC

UTILITY RELOCATION PLANS

COMPANY	CONTACT	PHONE NO.
Duke Energy Power Distribution	Julie Monroy (Pike) 123 N. White Street Fort Mill, SC 29715 JMonroy@pike.com Larry Robinson (Pike) 123 N. White Street Fort Mill, SC 29715 LNRobinson@pike.com	803-659-5843 803-835-7880
Town of Fort Mill Water & Sewer **NO CONFLICT**	Greg Rushing 131 E. Elliott Street Fort Mill, SC 29715 grushing@fortmillsc.gov	803-396-9729
YCNGA Gas	Eric Cellucci 965 West Main Street Rock Hill, SC 29730 eric.cellucci@ycnga.com	803-323-5392
COMPANY	**CONTACT**	**PHONE NO.**
Comporium Telephone	Eric Kirkland 471 Lakeshore Parkway Rock Hill, SC 29730 eric.kirkland@comporium.com	803-326-6109
Charter/Spectrum CATV	Neal Barker 3140 West Arrowood Road Charlotte, NC 28273 neal.barker@charter.com	704-671-6103

INDEX OF SHEETS

DESCRIPTION	SUBTOTAL OF SHEETS
UTILITY REFERENCE SHEET	U1
UTILITY LEGEND SHEET	U2
UTILITY DATA SHEET	U3
UTILITY POLE DATA SHEET	U4
UTILITY GENERAL NOTES	U5
UTILITY PLAN SHEETS	U6-U8
TOTAL	8

STV 100 Years
STV Incorporated
1969 CENTRE POINT DRIVE
SUITE 102
NORTH CHARLESTON, SOUTH CAROLINA 29418

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

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SC 160 (TOM HALL RD)
ROAD WIDENING
UTILITY REFERENCE SHEET

SCALE: N/A RTE. SC 160 DWG. NO. U1

SUE LEGEND AND NOTES

FOR INFORMATION ONLY | FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD / ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	U2

ELECTRIC SYMBOLS

SYM	ABV	DESCRIPTION
	ETM	ELECTRICAL TRANSFORMER
	EMH	ELECTRICAL MAN HOLE
	EHH	ELECTRICAL HAND HOLE
	EPP	ELECTRIC PEDESTAL
	EBX	ELECTRIC BOX
	ESG	ELECTRIC SWITCH GEAR BOX
	EVT	ELECTRIC VAULT
	EGL	GROUND / LANDSCAPE LIGHT
	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

SYM	ABV	DESCRIPTION
	TFV	TRAFFIC SIGNAL CONTROL VAULT
	TFHH	TRAFFIC CONTROL HAND HOLE
	TFJ	TRAFFIC SIGNAL JUNCTION BOX

GAS SYMBOLS

SYM	ABV	DESCRIPTION
	GM	GAS METER
	GVC	GAS VALVE CAP
	GMH	GAS MAN HOLE
	GVT	GAS VENT
	GR	GAS PRESSURE REGULATOR
	GTP	GAS LINE TEST POINT
	GTF	GAS LINE TAP FARM

MISC SYMBOLS

	MWP	UTILITY WITNESS POST
EOI	MOI	END OF INFORMATION
	MUC	MISC / UNKNOWN VALVE CAP OR COVER
	MPB	PAVED OR BURIED MANHOLE / CAP
	MUE	UTILITY TERMINI / ENDS
	MTH	TEST HOLE

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.

TELECOMMUNICATION SYMBOLS

SYM	ABV	DESCRIPTION
	TB	TELEPHONE BOOTH
	TVP	CABLE TV PEDESTAL
	TLC	SUBSCRIBER LOOP CARRIER (aka SLICK)
	TPP	TELEPHONE PEDESTAL
	TMH	TELEPHONE MAN HOLE
	TFOH	FIBER OPTIC HAND HOLE
	THH	TELEPHONE HAND HOLE
	TVHH	CABLE TV HAND HOLE
	TBX	TELEPHONE BOX
	TXB	UG / SPLICE - AG SPLICE BOX
	TRP	TELEPHONE REPEATER
	TVB	CABLE TV BOX
	TUV	UNDERGROUND TELEPHONE VAULT
	UTP	UNDERGROUND TELEPHONE PEDESTAL
	UTV	UNDERGROUND CABLE TV PEDESTAL

WATER SYMBOLS

SYM	ABV	DESCRIPTION
	WM	WATER METER
	WV	WATER VALVE
	WMW	WATER MONITORING WELL
	WFH	FIRE HYDRANT
	WMH	WATER MAN HOLE
	WAR	WATER AIR RELEASE VALVE
	WVB	WATER VALVE BOX
	WFC	FIRE DEPARTMENT CONNECTION
	WBP	WATER BACKFLOW PREVENTER
	WBO	WATER BLOW OFF VALVE
	WWH	WELL HOUSE
	WPV	POST INDICATOR VALVE

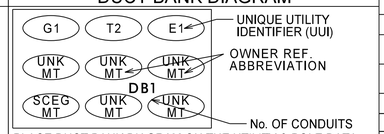
SEWER SYMBOLS

SYM	ABV	DESCRIPTION
	SCO	SEWER CLEAN OUT
	SMH	SEWER MAN HOLE
	SAR	SEWER AIR RELEASE VALVE
	SST	SEWER STEP TANK
	SCV	SEWER CHECK VALVE BOX
	SGP	SEWER GRINDER / PUMP STATION
	SSV	SEWER VALVE
	SLS	SEWER LIFT STATION

NONPOTTABLE WATER SYMBOLS

	ICV	IRRIGATION CONTROL VALVE
	ICB	IRRIGATION CONTROL BOX
	IRH	IRRIGATION / SPRINKLER HEAD

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".

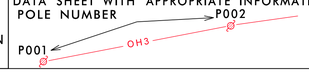
UTILITY INFORMATION TAGS (UIT)

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 UTLILITY 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
	UCW	NEW / RELOCATE WATER STRUCTURE
	UCT	NEW / RELOCATE TELECOMMUNICATION PEDESTAL
	UCG	NEW / RELOCATE GAS STRUTURE
	UCE	NEW / RELOCATE ELECTRIC STRUCTURE
	UCS	NEW / RELOCATE SEWER STRUCTURE
	UCF	NEW / RELOCATE TRAFFIC STRUCTURE
	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 — TELEPHONE
- CABLE TV
- ELECTRIC
- TRAFFIC CONTROL
- WATER
- GAS
- FORCED SEWER
- FUEL / PETROLEUM
- AERIAL UTILITIES
- DUCT BANK
- MISCELANEOUS

PROJECT SPECIFIC NOTES

1. SUE WAS PERFORMED BY ESP ASSOCIATES, PA IN 2007 FOR YORK COUNTY.

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

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SCDOT
South Carolina Department of Transportation

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

SC 160 (TOM HALL RD) ROAD WIDENING UTILITY LEGEND SHEET

SCALE: N/A RTE. SC 160 DWG. NO. U2

UTILITY DATA

UTILITY	ROUTE / RD	STATION RANGE	OFFSET RANGE	ITEM IN PLACE	OWNERSHIP	REMARKS / MISC NOTES
T	SC 160			FIBER/CABLE	COMPORIUM	AERIAL AND BURIED FACILITIES - MULTIPLE LINES
T	MIMOSA LN			FIBER/CABLE	COMPORIUM	
T	HENSLEY ROAD			FIBER/CABLE	COMPORIUM	
TV	SC 160			FIBER	CHARTER	AERIAL AND BURIED FACILITIES
TV	MIMOSA LN			FIBER	CHARTER	
E	SC 160			OH POWER	DUKE ENERGY	
G	SC 160			4" STEEL	YCNGA	
G	MIMOSA LN			2" PLASTIC	YCNGA	
G	KINGS CT			1" PLASTIC	YCNGA	
G	HENSLEY RD			4" PLASTIC	YCNGA	
SS	SC 160			8" / 4" PVC	TOWN OF FORT MILL	
W	SC 160			UKN SIZE	TOWN OF FORT MILL	

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

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	U3

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FINAL PLANS

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

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SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SC 160 (TOM HALL RD)
ROAD WIDENING
UTILITY DATA SHEET

SCALE: N/A RTE. SC 160 DWG. NO. U3

POLE DATA

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	U4

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POLE	ALIGNMENT / ROUTE / RD	STATION	OFFSET	OWNER	POLE DATA				RIDING UTILITIES
					OWNER No	HEIGHT	DIAMETER	MATERIAL	
P1				DUKE			8	WOOD	1 PHASE POWER
P2				DUKE			9	WOOD	3 PHASE POWER, TRANSFORMER, METER, TV BOOSTER
P3				DUKE			9	WOOD	1 PHASE POWER, TRANSFORMER
P4				DUKE	142749 046321		9	WOOD	3 PHASE POWER, TRANSFORMER, TELEPHONE FO
P5				DUKE			9	WOOD	3 PHASE POWER
P6				DUKE			10	WOOD	3 PHASE POWER
P7				DUKE	142664 046357		9	WOOD	3 PHASE POWER
P8				DUKE			10	WOOD	3 PHASE & 1 PHASE POWER, TRANSFORMER
P9				DUKE			12	WOOD	3 PHASE & 1 PHASE POWER, TV
P10				DUKE			8	WOOD	1 PHASE POWER, TV
P11				DUKE			10	WOOD	3 PHASE & 1 PHASE POWER
P12				DUKE			8	WOOD	1 PHASE POWER, LIGHT
P13				DUKE			8	WOOD	1 PHASE POWER
P14				DUKE			12	WOOD	3 PHASE & 1 PHASE POWER
P15				DUKE			10	WOOD	1 PHASE POWER
P16				SC DOT			12	STEEL	1 PHASE POWER, METER, TRAFFIC SIGNAL
P17				SC DOT			12	STEEL	TRAFFIC SIGNAL
P18				SC DOT			12	STEEL	TRAFFIC SIGNAL
P19				SC DOT			12	STEEL	TRAFFIC SIGNAL
P20				DUKE			8	WOOD	1 PHASE POWER, LIGHT, TV, TELEPHONE
P21				DUKE			10	WOOD	3 PHASE & 1 PHASE POWER, TRANSFORMER, TV, TELEPHONE
P22				DUKE			12	WOOD	3 PHASE POWER, TV, TELE
P23				DUKE			10	WOOD	3 PHASE POWER, TV, TELE

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SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SC 160 (TOM HALL RD)
ROAD WIDENING
POLE DATA SHEET

SCALE: N/A RTE. SC 160 DWG. NO. U4

PROLINE.DGN

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	SC 160	U5

FOR INFORMATION ONLY

FINAL PLANS

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 SHALL REFER TO EACH UTILITY OWNER'S RELOCATION PLANS INDIVIDUALLY FOR DETAILED AND ACCURATE INFORMATION REGARDING RELOCATIONS. THESE PLANS ARE AVAILABLE FOR REVIEW AT THE SCDOT DISTRICT OFFICE.

THE CONTRACTOR IS REQUIRED TO CONTACT PALMETTO UTILITY PROTECTION SERVICE (PUPS) AS WELL AS THE NON-PUPS MEMBER UTILITIES THREE DAYS PRIOR TO EXCAVATING ACTIVITIES. 1-888-721-7877

THE CONTRACTOR IS REQUIRED TO COORDINATE THE ROADWAY CONSTRUCTION SCHEDULE WITH THE UTILITY RELOCATION SCHEDULES.

SPECIAL PROVISIONS

CONFIRM WITH ALL UTILITIES THE STATUS OF THEIR RELOCATIONS. INCLUDED IN THIS REPORT ALONG WITH THE INDIVIDUAL UTILITY SUBMITTALS ARE THE U-SHEETS.

UTILITY AS-BUILTS:

THE ROADWAY CONTRACTOR SHALL BE RESPONSIBLE FOR THE COLLECTION AND INCORPORATION OF THE UTILITY AS-BUILTS IN THEIR FINAL SUBMITTAL. ALL EXISTING, PROPOSED, AND ABANDON LINES MUST BE SHOWN.

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 INCIDENTALS:

FOR THE RELOCATION OF SERVICES, ADJUSTMENTS OF VALVE COVERS AND/OR MANHOLE LIDS, ADJUSTMENTS FOR POINT CONFLICTS, AND ANY OTHER UTILITY APPURTENANCES ADJUSTMENTS, THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER 14 DAYS PRIOR TO NEEDING ADJUST AND ALLOW ONE WEEK TO COMPLETE.

UTILITY RELOCATION WINDOW & SEQUENCE:

TEMPORARY SUSPENSION FOR UTILITY WORK AND UTILITY WINDOW:

THE DEPARTMENT HAS DETERMINED THAT IN THE BEST INTEREST OF THE TRAVELING PUBLIC, THE CONTRACTOR SHALL PERFORM THE CLEARING AND GRUBBING OPERATIONS AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT TO ALLOW FOR UTILITIES TO RELOCATE WITHIN A SPECIFIED 90 DAY UTILITY WINDOW. ONCE THE NOTICE TO PROCEED HAS BEEN ESTABLISHED, THE CONTRACTOR SHALL BEGIN ASSOCIATED CLEARING AND STAKING OPERATIONS ON SC 160 (TOM HALL RD). UPON COMPLETION OF THE CLEARING AND GRUBBING AND CONSTRUCTION STAKING, THE CONTRACTOR SHALL NOTIFY THE RCE BY LETTER. ONCE THE RCE HAS BEEN NOTIFIED THAT CLEARING AND GRUBBING, EROSION CONTROL, AND STAKING OPERATIONS ON THE ARE ROAD ARE COMPLETE, THE UTILITY WINDOW SHALL BEGIN. THE RCE SHALL ESTABLISH THE BEGINNING AND END DATE OF THE UTILITY WINDOWS.

DURING THE UTILITY WINDOW, THE CONTRACTOR WILL NOT BE ALLOWED TO PERFORM ANY WORK ACTIVITIES UNLESS APPROVED BY THE RCE. IF WORK ACTIVITIES ARE APPROVED, THEY SHOULD IN NO WAY HINDER OR INTERFERE WITH THE UTILITY RELOCATIONS DURING THE UTILITY WINDOW PROVIDED. IF WORK ACTIVITIES INTERFERE WITH UTILITY RELOCATIONS, ALL WORK BY THE PRIME CONTRACTOR AND SUBCONTRACTORS WILL BE SUSPENDED UNTIL
THE END OF THE UTILITY WINDOW.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES ON THE PROJECT. THE DEPARTMENT WILL NOT COMPENSATE THE CONTRACTOR FOR ANY ADDITIONAL MOBILITZATION OTHER THAN THE BID AMOUNT FOR MOBILIZATION.

THIS PROVISION IN NO WAY PROVIDES A GUARANTEE THAT ALL UTILITY RELOCATIONS WILL BE COMPLETED DURING THE UTILITY WINDOW.

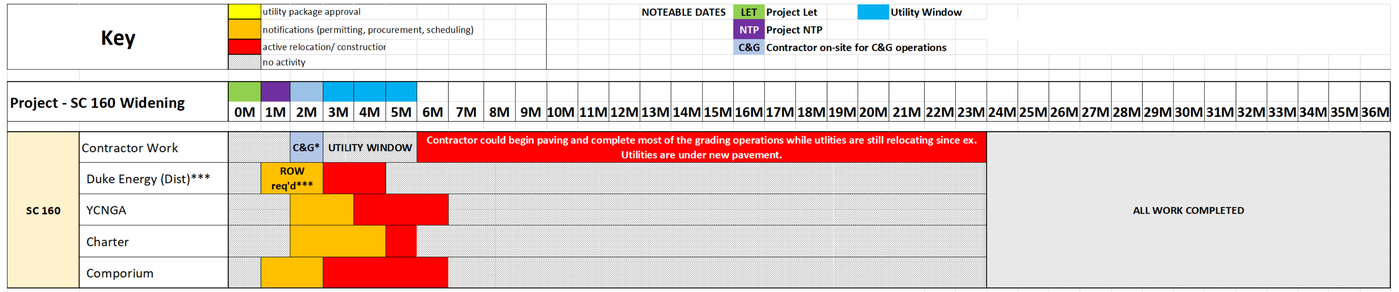
UTILITY WINDOW & RELOCATION SEQUENCE:

IT IS THE INTENTION OF THE UTILITIES TO RELOCATE ACCORDING TO THE FOLLOWING CONSTRUCTION SEQUENCE. IF THE CONTRACTOR PLANS TO DEVIATE FROM THE PROPOSED PHASING, THEN IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES AND ACCOUNT FOR ANY POTENTIAL DELAYS.

UTILITY WINDOW & RELOCATION SEQUENCE:

IT IS THE INTENTION OF THE UTILITIES TO RELOCATE ACCORDING TO THE FOLLOWING CONSTRUCTION SEQUENCE. IF THE CONTRACTOR PLANS TO DEVIATE FROM THE PROPOSED PHASING, THEN IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES AND ACCOUNT FOR ANY POTENTIAL DELAYS.

THIS PROVISION IN NO WAY PROVIDES A GUARANTEE THAT ALL UTILITY RELOCATIONS WILL BE COMPLETED DURING THE UTILITY WINDOW.



*C&G: Clearing and grubbing both sides of SC 160. This also includes rough grading the larger cut areas from Station 90+00 to end of project.

NOTE: THIS CHART IS FOR VISUAL PURPOSES ONLY TO DEMONSTRATE THE ORDER OF UTILITY RELOCATION STAGING. ALL TIME LINES AND ORDER OF OPERATIONS WILL NEED TO BE VERIFIED BY CONTRACTOR.

WORK AREAS, CONTRACTOR ACTIVITY, AND PRECEDING RELOCATION REQUIRED FOR UTILITY RELOCATION

DUKE: Set new pole line on the north side of SC 160.***

CONTRACTOR ACTIVITY — *C&G to ROW for Duke and YCNGA. 5 weeks for Duke to complete relocations.*

York County — *Notify Duke 2 months prior to contractor clearing, so they are on site ready to complete their clearing needs for power installation . Duke will need 2-3 weeks for clearing and 5 weeks to complete relocation.*

YCNGA: SC 160 relocation on the south side from outside the project limits to Hensley Road.

CONTRACTOR ACTIVITY — *C&G to ROW on right side throughout project limits.*

OTHER UTILITY ACTIVITY — *Comporium to install new cables. Once new cables are in, YCNGA can begin. Comporium does NOT need to be active for new gas installtion.*

York County — *Notify YCNGA once C&G operations begin. YCNGA will need 2 months notificaiton and 3 months to complete relocation.*

COMPORIUM: SC 160 relocation from outside the project limits to Sta. 83+70 LT before it crosses to the south side.

CONTRACTOR ACTIVITY — *C&G to ROW on right side throughout project limits.*

York County/ SCDOT — *Notify Comporium soon after Let. They will need 2 months notification and 4 months to complete relocation. YCNGA could install gas once Comporium has installed cables. Ask that Comporium flag their new cables so YCNGA knows where these are located while the cutovers are still on-going.*

CHARTER: SC 160 relocation from the project beginning to end.

Other Utility — *Duke will need to relocate prior to Comporium performing aerial relocations.*

York County/ SCDOT — *Notify Comporium sooner after Let. They will need 3 months notification and 1 month to complete relocation. Charter will need to begin work after Duke completes their pole relocations for the aerial portion of their relocations.*

NOTE: BE SURE TO STAKE DRAINAGE CROSSINGS TO ENSURE UTILITY IS UNDER PROPOSED FEATURES.

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SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SC 160 (TOM HALL RD)
ROAD WIDENING
UTILITY GENERAL NOTES SHEET

SCALE: N/A RTE. SC 160 DWG. NO. U5

FINAL PLANS | FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	U6

CHARTER TO START BURIED RELOCATIONS

CHARTER CATV TO TRANSITION FROM AERIAL TO BURIED.

CHARTER TO OVERLASH ON EX.AERIAL LINES

CHARTER TO OVERLASH ON EX.AERIAL LINES

COMPORIUM TO BORE NEW TELECOM LINES 30-33 FT FROM ROAD CL

COMPORIUM TO TIE BACK INTO EXISTING

CHARTER TO ABANDON EX.CATV LINE

COMPORIUM TO RETAIN EX.TELECOM LINES

COMPORIUM TO ABANDON EX.TELECOM LINES.

CHARTER TO ABANDON EX.CATV LINE

CHARTER TO BORE NEW LINES 1-2 FT INSIDE R/W AT A MIN DEPTH OF 4 FT.

COMPORIUM TO ABANDON EXISTING LINES

DUKE TO RETAIN EXISTING POLE

COMPORIUM TO ABANDON EXISTING TELECOM LINES

DUKE TO INSTALL NEW POLE

DUKE TO INSTALL NEW POLE

DUKE TO REMOVE EXISTING POLE

DUKE TO INSTALL NEW POLE

DUKE TO REMOVE EXISTING AERIAL LINE

DUKE TO TIE EXISTING SERVICE TO NEW 4" GAS MAIN

YCNGA TO INSTALL NEW 4" PLASTIC GAS LINE 1' OFF EOP

YCNGA TO TIE BACK TO EXISTING 4" STEEL GAS LINE

TOWN OF FORT MILL TO RETAIN EX.WATER LINE

TOWN OF FORT MILL TO RETAIN EXISTING WATER

TOWN OF FORT MILL TO RETAIN EXISTING SEWER

YCNGA TO ABANDON EXISTING 4" STEEL GAS LINE

YCNGA TO RELOCATE EXISTING SERVICE TO NEW 4" GAS MAIN

YCNGA TO INSTALL NEW 4" PLASTIC GAS LINE 1' OFF EOP

YCNGA TO INSTALL NEW 4" PLASTIC GAS LINE 10' OFF EOP

DUKE TO INSTALL NEW POLE

DUKE TO SPLICE PORTION OF EX. UG ELECTRIC TO REMAIN.

DUKE TO ABANDON EX.UG ELECTRIC.

CHARTER TO INSTALL NEW CATV LINE 4 FT INSIDE OF R/W

COMPORIUM TO INSTALL NEW TELECOM LINE 1-2 FT INSIDE R/W.

COMPORIUM TO ABANDON EXISTING TELECOM LINES

DUKE TO INSTALL NEW POLE

DUKE TO REMOVE EXISTING POLE

CHARTER TO ABANDON EX.CATV LINE

COMPORIUM TO BORE NEW TELECOM LINES 30-33 FT FROM ROAD CL

DO NOT DISTURB TREES OR ROOTS

Duke originally designed to relocate on south side of SC 160; however, Duke was unable to obtain the necessary easements. York County currently reviewing options to relocate to the north side. Inquire about acquisition status. Duke needs to relocate in order for gas to relocate.

MATCH TO SHEET NO. U7
STA. 75+00.00

POT 45+74.84

SCALE 50 0 50 100 FEET

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YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
ROAD WIDENING
UTILITY COORDINATION
PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. U6

FINAL PLANS	FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	U7

MATCH TO SHEET NO. U6 STA. 75+00.00

TO SHEET NO. U8 STA. 90+00.00

N 38°16'36" E 355.29'

N 38°12'02" E 335.72'

DUKE TO INSTALL NEW POLE

CHARTER TO BORE NEW LINES 1-2 FT INSIDE R/W AT A MIN DEPTH OF 4 FT.

NEW TRANS. R/W +05.00 224.40'

+38.20 210.79'

+06.63

CHARTER TO ABANDON EX.CATV LINE

+54.48 192.05'

COMPORIUM TO VERIFY DEPTH OF PROP.DRAINAGE PRIOR TO INSTALLATION.

COMPORIUM TO ABANDON EX.LINES

COMPORIUM TO BORE NEW TELECOM 30-33 FT FROM ROAD CENTERLINE

CHARTER TO ABANDON EXISTING CABLE LINES

CHARTER TO ABANDON EXISTING TELECOM LINES

TEMP. CONST. EASE. +50.00 50.00'

+05.47 65.55'

+01.96 50.00'

+25.84 65.00'

+22.46 50.00'

TEMP. CONST. EASE. +00.00 50.00'

NEW R/W

75

80

85

90

COMPORIUM TO BORE NEW TELECOM LINES 30-33 FT FROM ROAD CENTERLINE

CHARTER TO BORE NEW LINES 1-2 FT INSIDE R/W AT A MIN DEPTH OF 4 FT.

DUKE TO INSTALL NEW POLE

CHARTER TO ABANDON EXISTING CABLE LINES

COMPORIUM TO ABANDON EXISTING TELECOM LINES

NEW 50' R/W

+10.00 45.00' 50.00'

DUKE TO INSTALL NEW POLE

+17.23 45.00'

NEW 45' R/W

+40.00 45.00'

NEW TRANS. R/W +00.00 55.00'

NEW 55' R/W +29.66 55.00'

+36.93 50.00'

NEW 50' R/W

CHARTER WILL BORE 6-8 FT FROM EX. ROAD AT A MIN DEPTH OF 8-9 FT.

CHARTER TO ABANDON EX.CATV LINE

CHARTER TO SET NEW PEDESTAL

+27.00 50.00' 70.00'

+61.81 50.00' 70.00'

NEW 70' R/W

NEW 50' R/W

SEPTIC TANK APPROX. LOCATION

A/G POOL

WD DECK

APPROX. DC TO END OF THE FIELD LINES

DUKE TO REMOVE EXISTING POLE

DUKE TO REMOVE EXISTING AERIAL LINE

DUKE TO INSTALL NEW POLE

DUKE TO INSTALL NEW POLE

YCNGA TO ABANDON EXISTING 4" STEEL GAS LINE

DUKE TO INSTALL NEW POLE

+50.00 50.00' 70.00'

YCNGA TO ABANDON EXISTING 4" STEEL GAS LINE

YCNGA TO RELOCATE EXISTING SERVICE TO NEW 4" GAS MAIN

DUKE TO INSTALL NEW POLE

+55.68 70.00'

DUKE TO REMOVE EX.OH LINE.

+47.96 50.00'

COMPORIUM TO INSTALL NEW TELECOM LINES 28-30 FT FROM ROAD CL

DUKE TO ABANDON EX.UG ELECTRIC.

DUKE TO SPLICE EX.UG POWER TO REMAIN.

+47.44 55.00'

NEW 50' R/W

NEW TRANS. R/W +20.00 50.00'

+15.00 35.00'

DUKE TO ABANDON EX.UG ELECTRIC.

+95.22

DUKE TO INSTALL NEW POLE.

DUKE TO SPLICE EX.UG POWER TO REMAIN IN PLACE.

YCNGA TO INSTALL NEW 4" PLASTIC GAS LINE 10' OFF EOP

DUKE TO INSTALL NEW POLE.

+40.00 50.00' 35.00'

NEW 50' R/W

+80.00 50.00'

NEW TRANS. R/W

TEMP. CONST. EASE.

+82.90 50.00'

+01.83 35.00'

+29.23 82.86'

+10.56 34.85'

+96.07 25.00'

+50.00 25.00' 35.00'

NEW 35' R/W

+70.08

+25.12

PRES.25' R/W PER YORK COUNTY PUBLIC WORKS

Duke originally designed to relocate on south side of SC 160; however, Duke was unable to obtain the necessary easements. York County currently reviewing options to relocate to the north side. Inquire about acquisition status. Duke needs to relocate in order for gas to relocate.

SCALE 50 0 50 100 FEET

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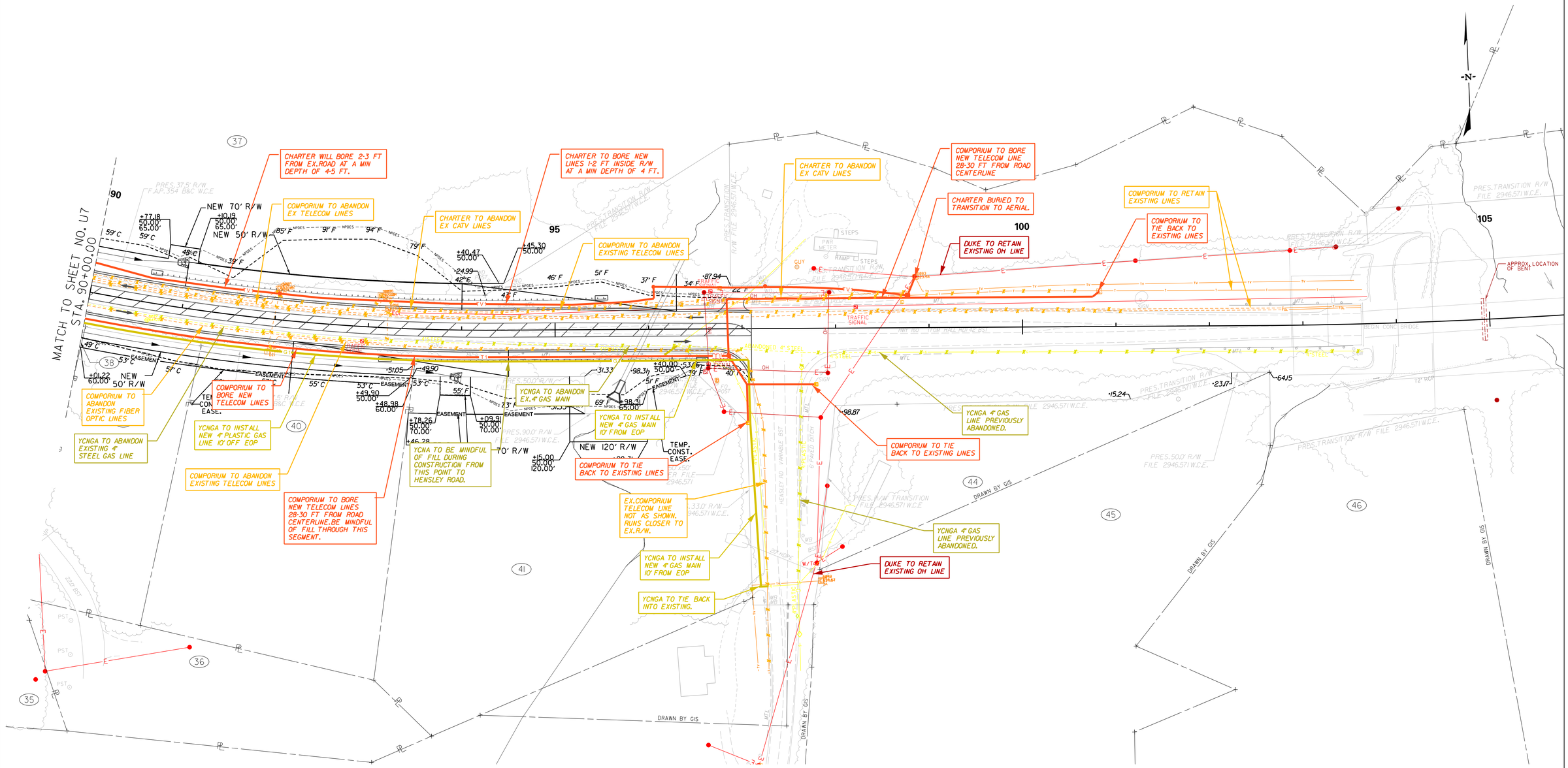
YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E) ROAD WIDENING UTILITY COORDINATION PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. U7

FINAL PLANS | FOR INFORMATION ONLY

FED. ROAD DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	ROUTE NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC 160	U8



50 0 50 100
SCALE FEET

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			

YORK COUNTY
SOUTH CAROLINA

S.C. ROUTE 160 (HIGHWAY 160 E)
ROAD WIDENING
UTILITY COORDINATION
PLAN SHEET

SCALE 1"=50' S.C. ROUTE 160 DWG. NO. U8

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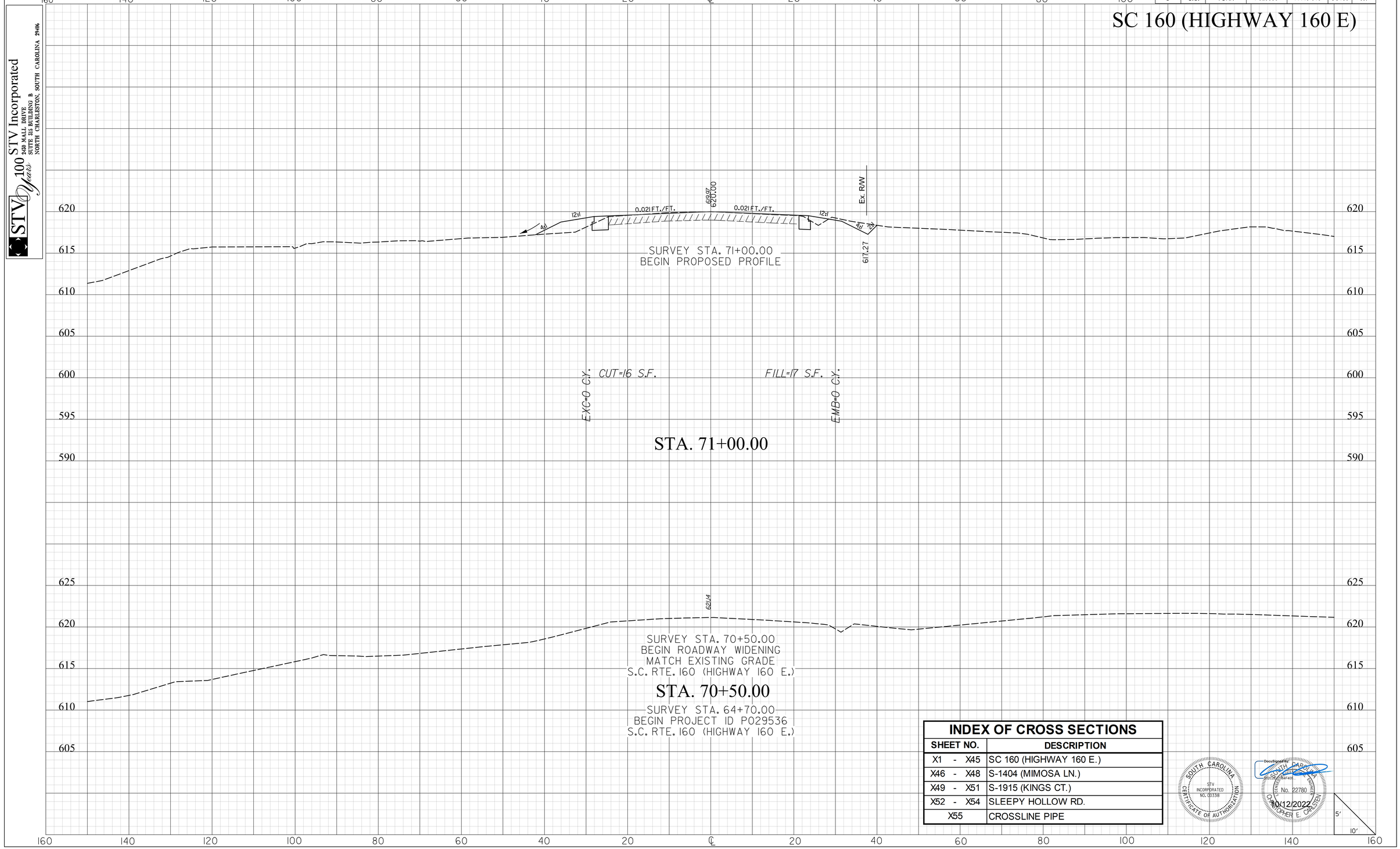
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X1

SC 160 (HIGHWAY 160 E)



INDEX OF CROSS SECTIONS

SHEET NO.	DESCRIPTION
X1 - X45	SC 160 (HIGHWAY 160 E.)
X46 - X48	S-1404 (MIMOSA LN.)
X49 - X51	S-1915 (KINGS CT.)
X52 - X54	SLEEPY HOLLOW RD.
X55	CROSSLINE PIPE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

DocuSigned by: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTEN
10/12/2022

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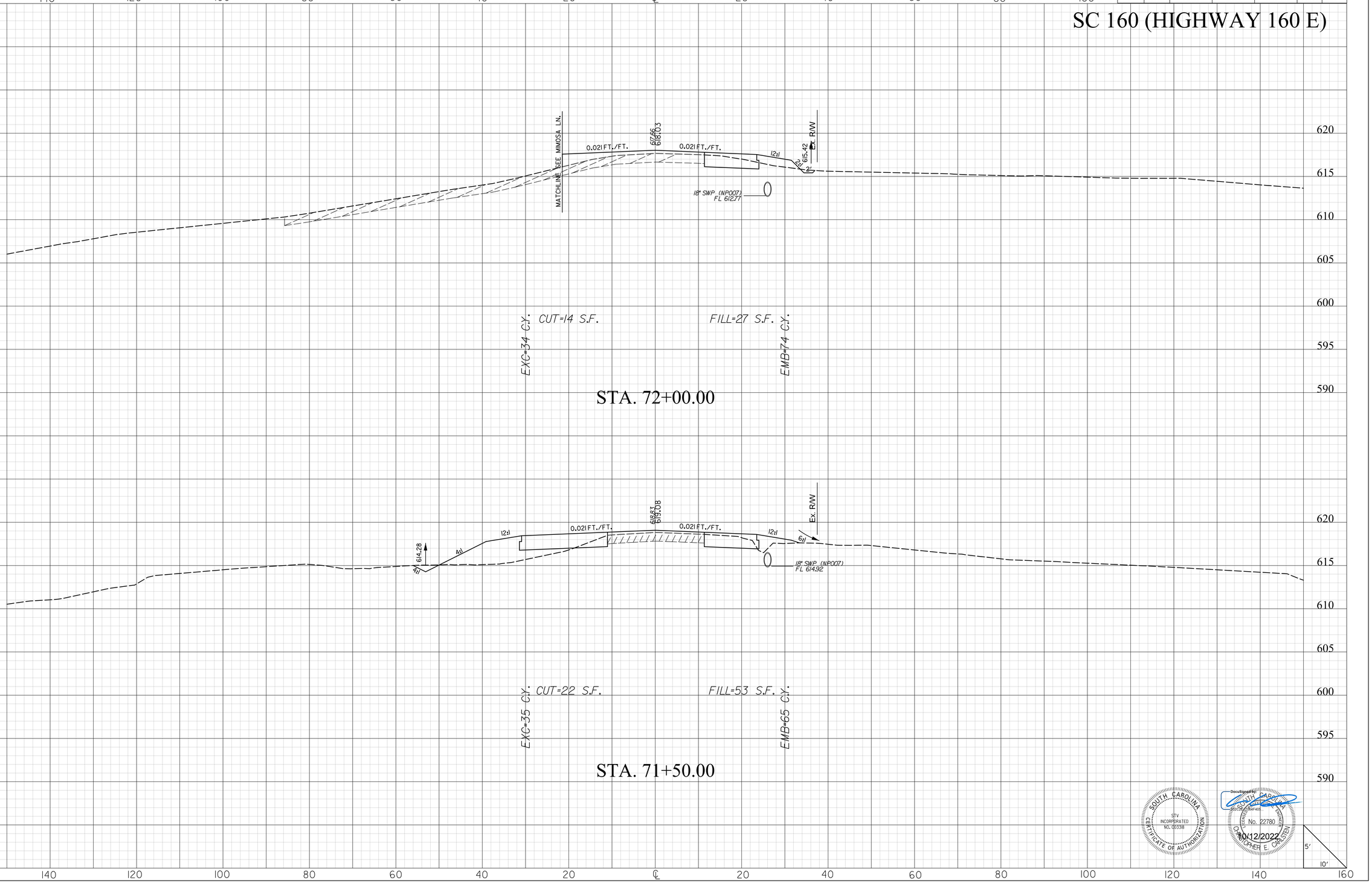
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X2

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X3

SC 160 (HIGHWAY 160 E)

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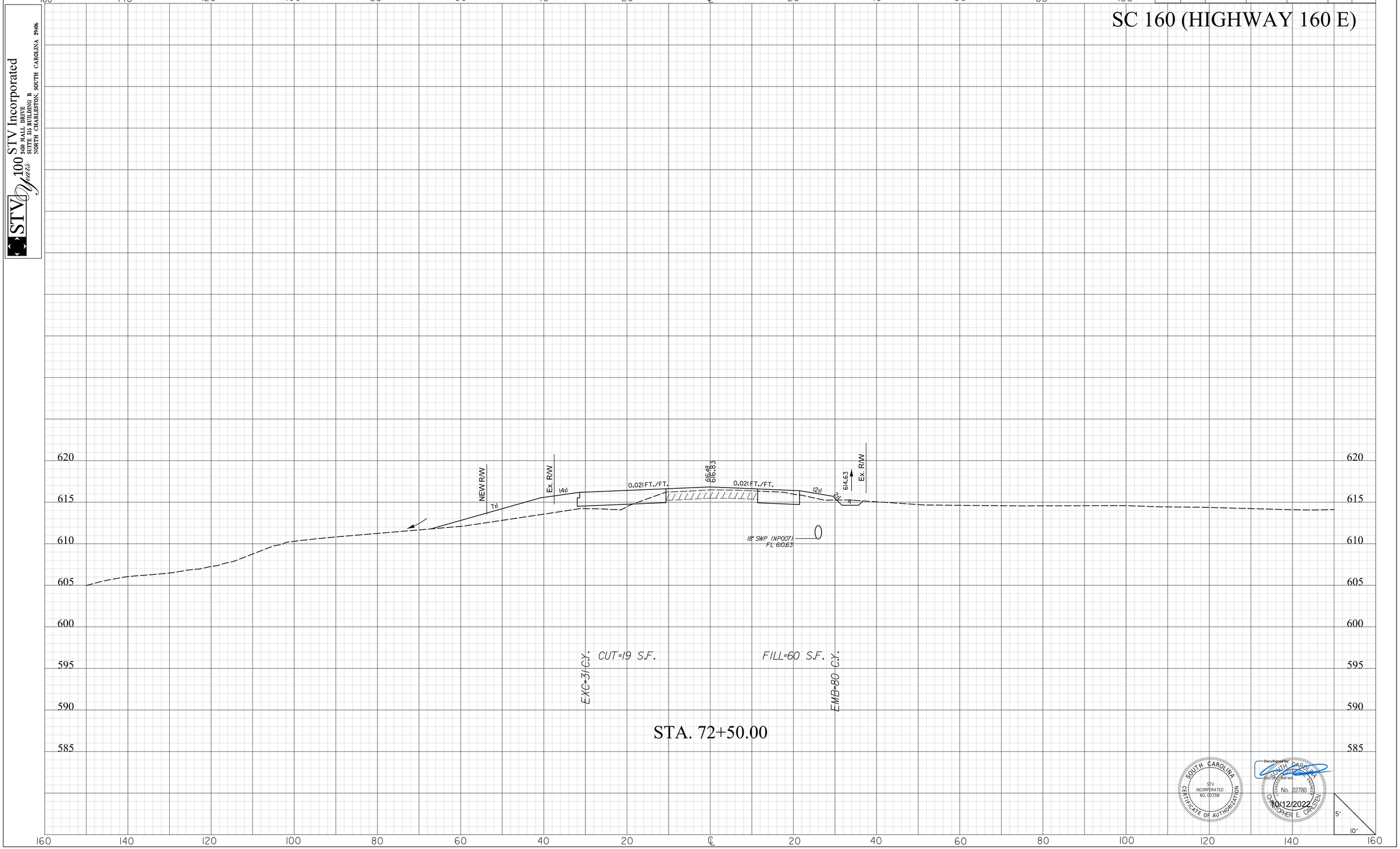
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406



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NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
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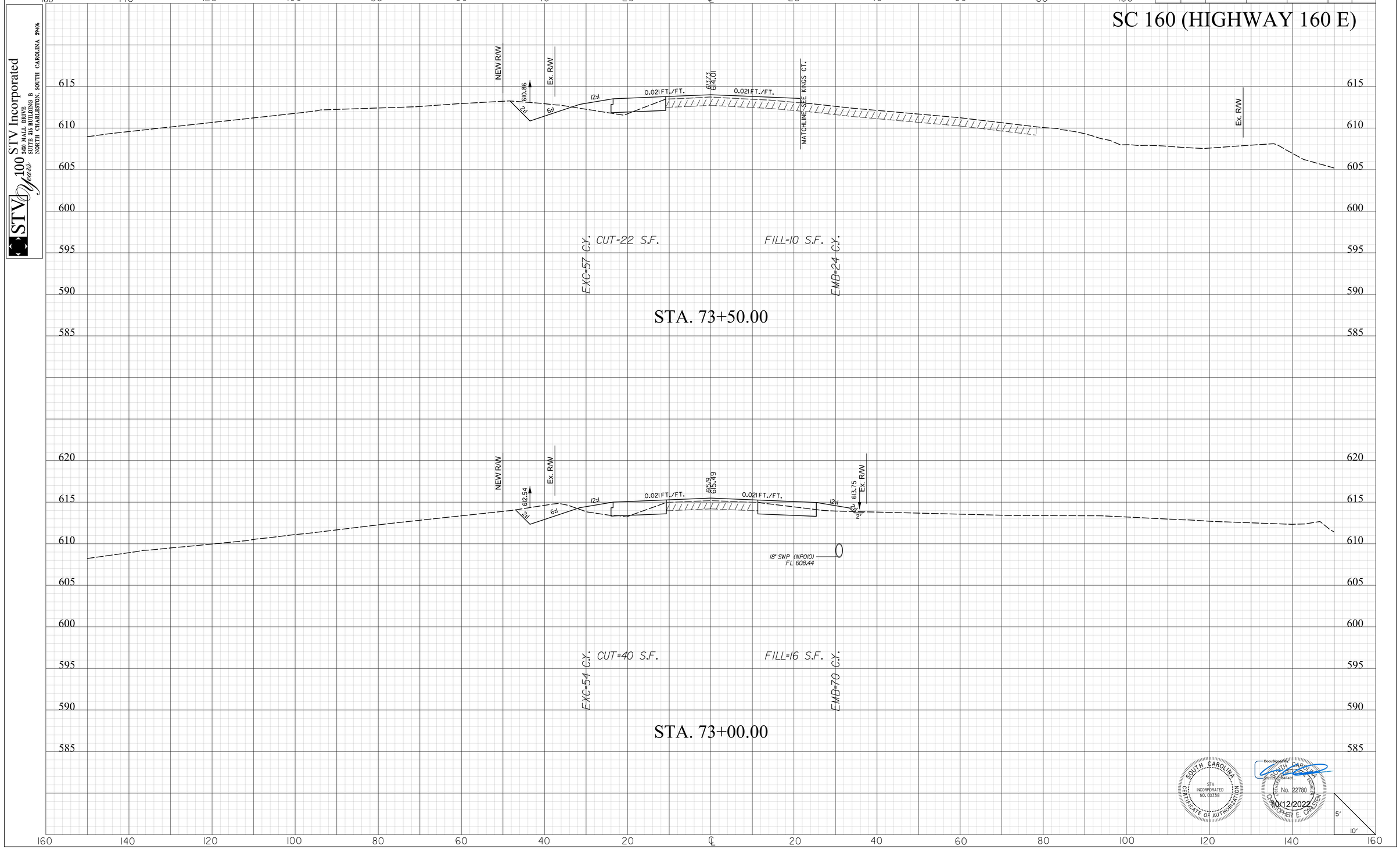
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X4

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
10/12/2022
CHRISTOPHER E. CARSTENS

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NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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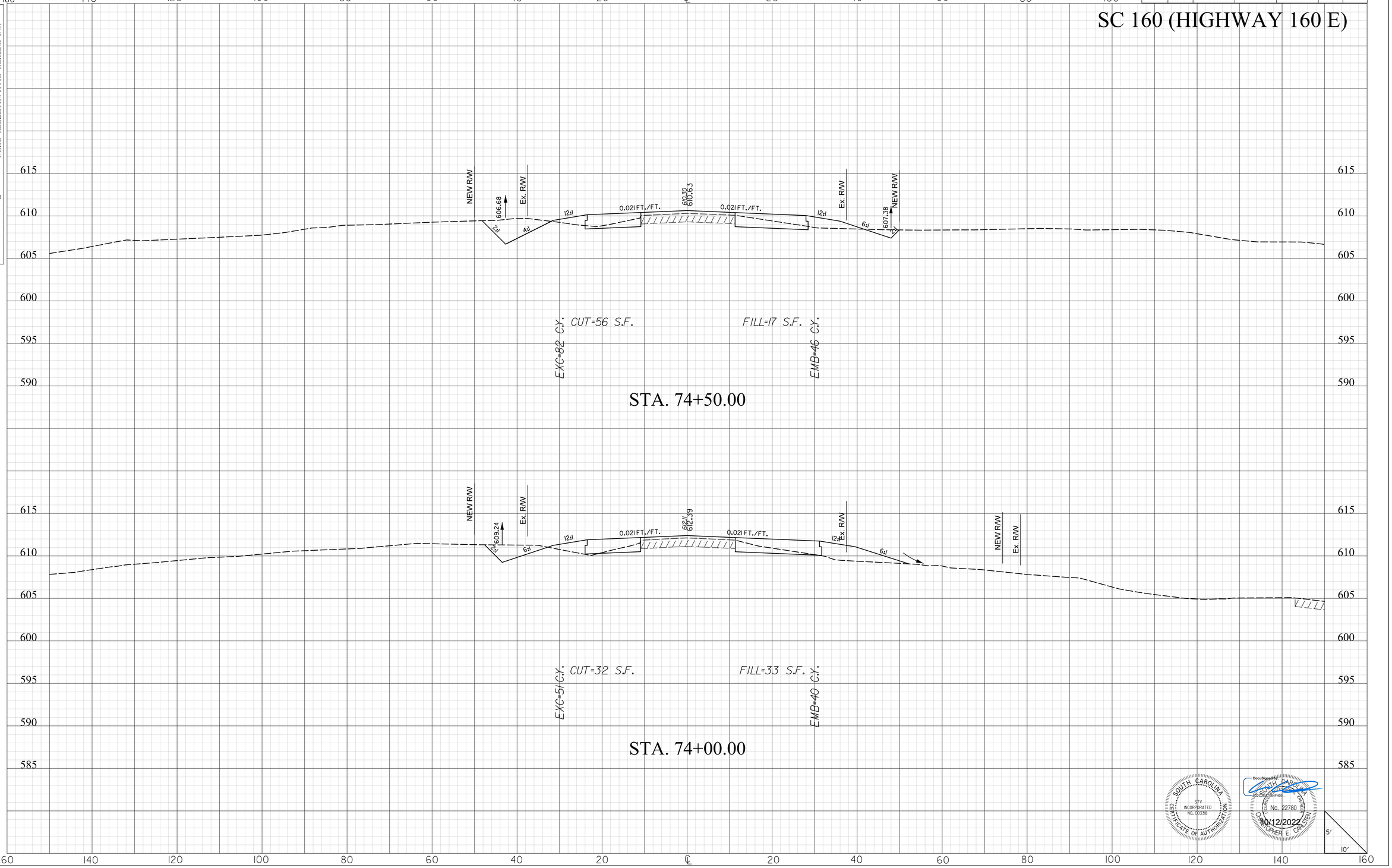

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

DocuSigned by: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTENS 10/12/2022

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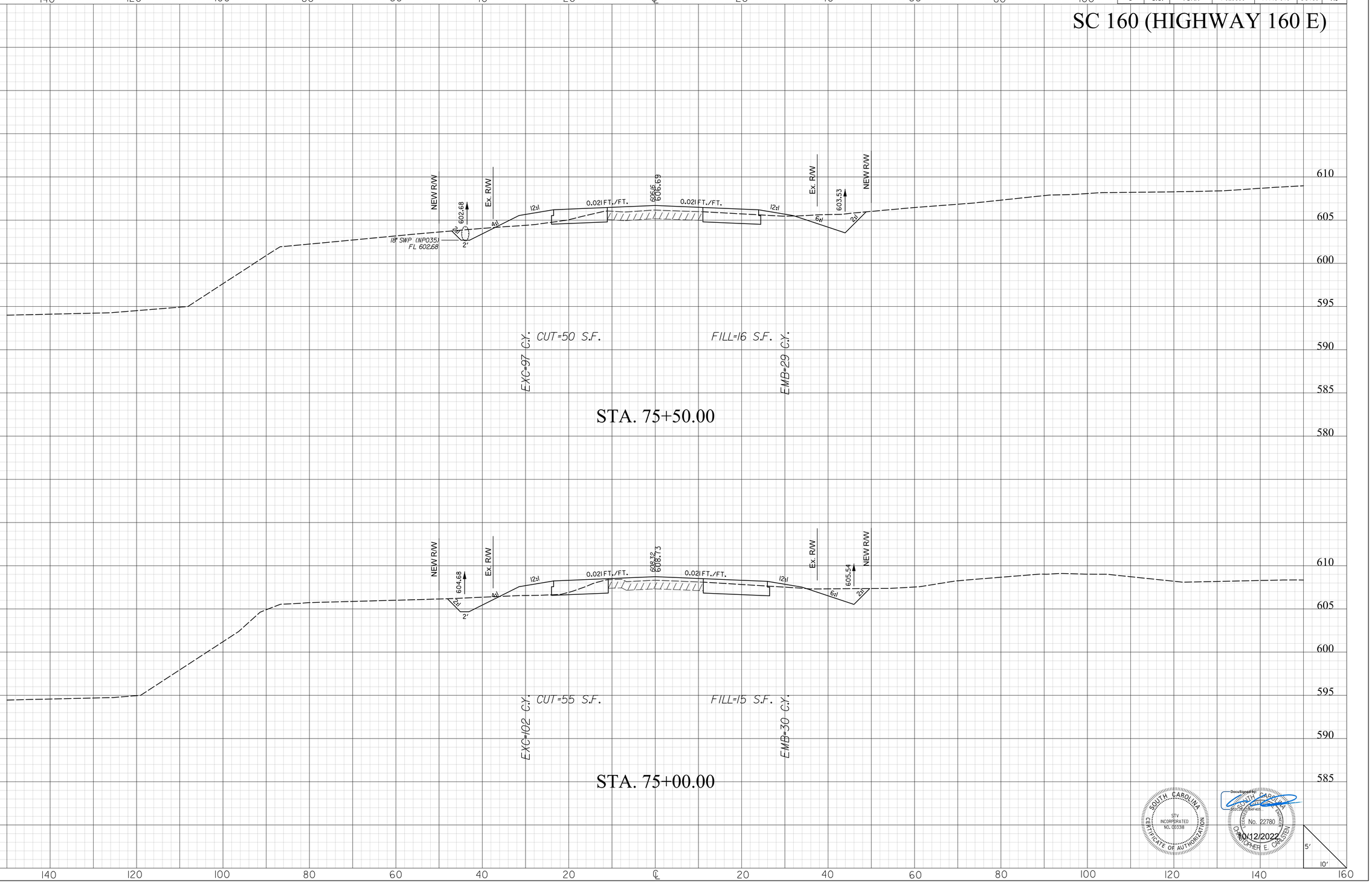
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X6

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION NO. C03318

Digitally signed by CHRISTOPHER E. CARLSTEN
SOUTH CAROLINA
No. 22780
10/12/2022

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SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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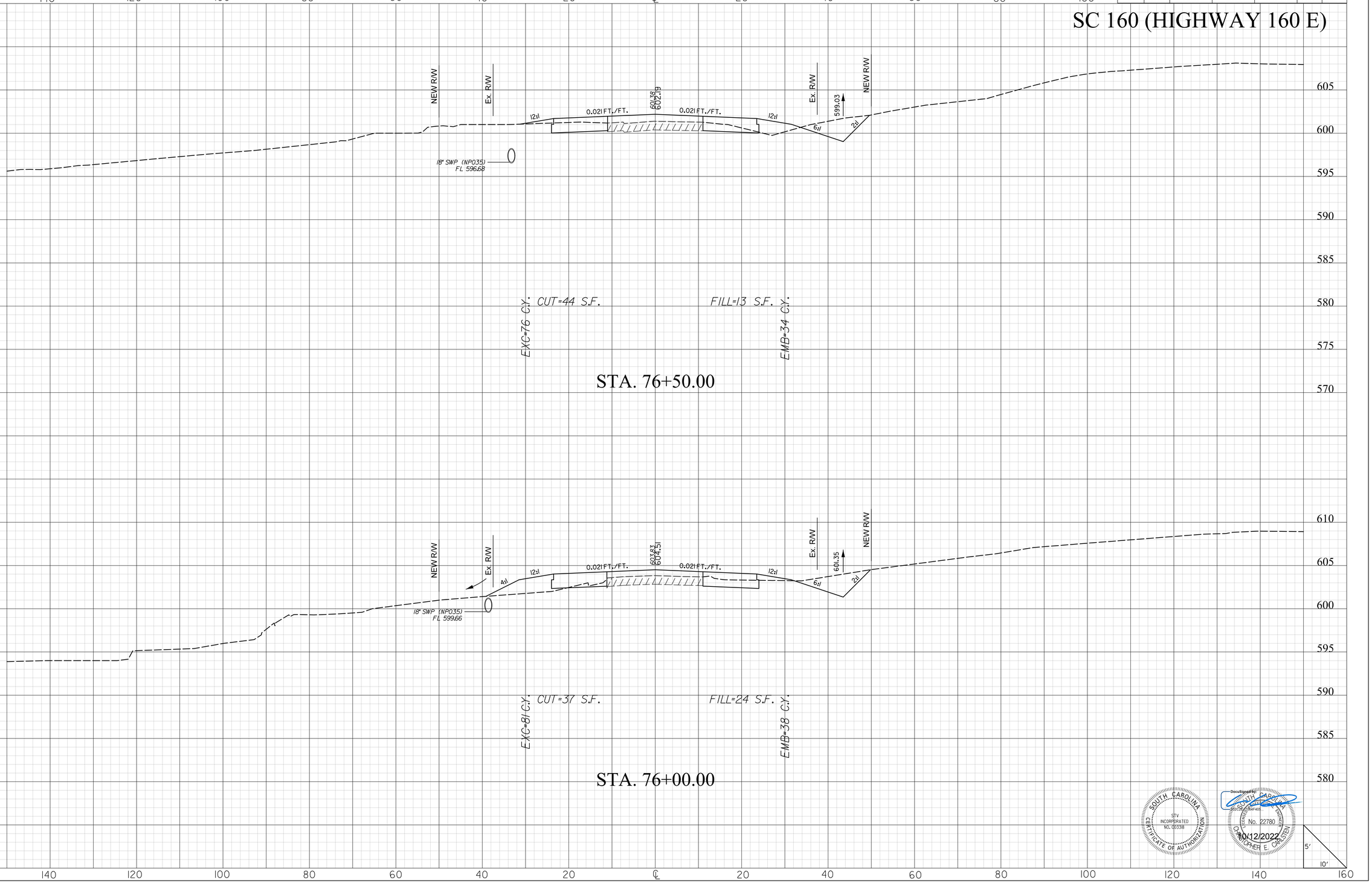
SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARSTEN
10/12/2022

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2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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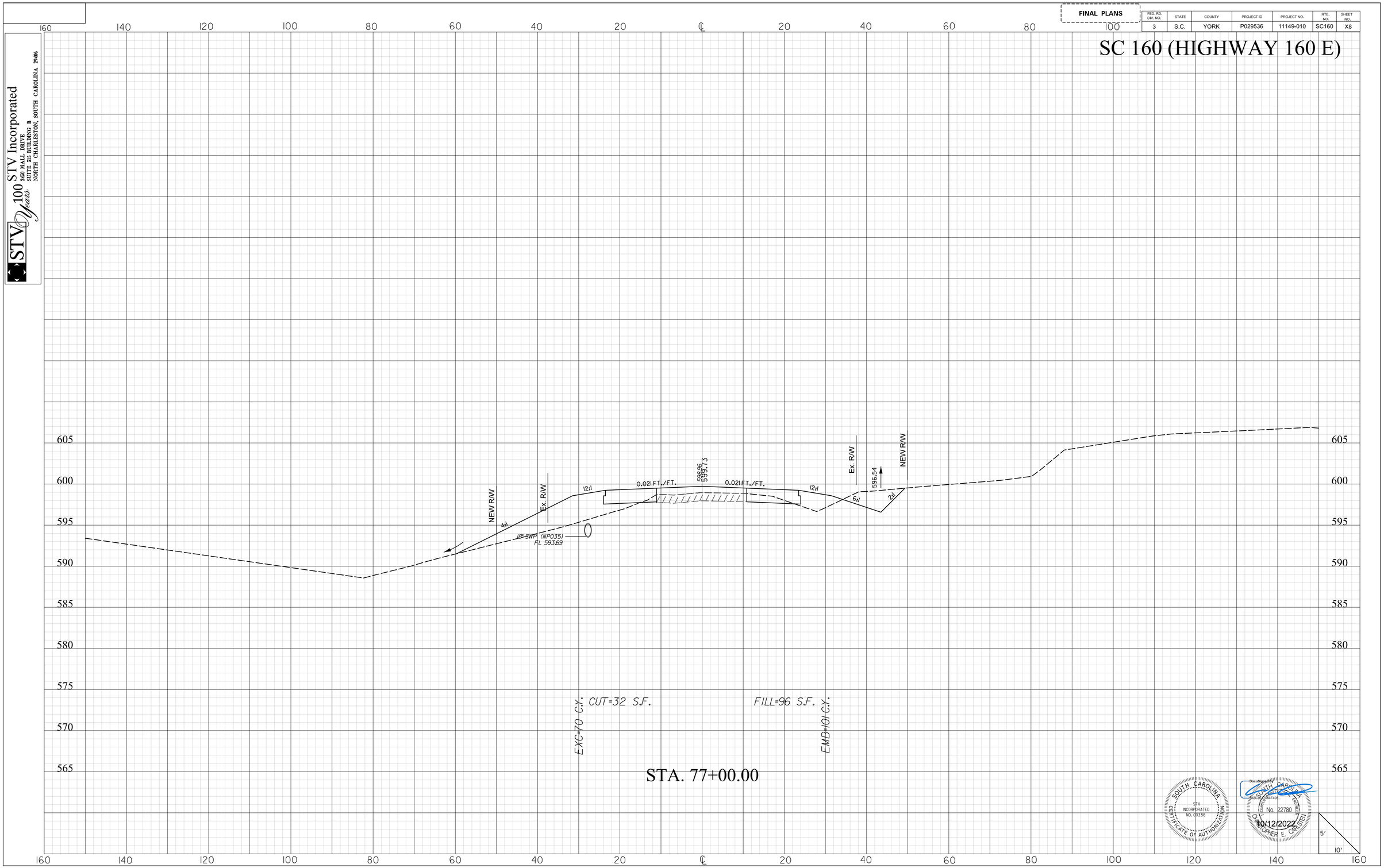
SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

Docusigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X9

SC 160 (HIGHWAY 160 E)

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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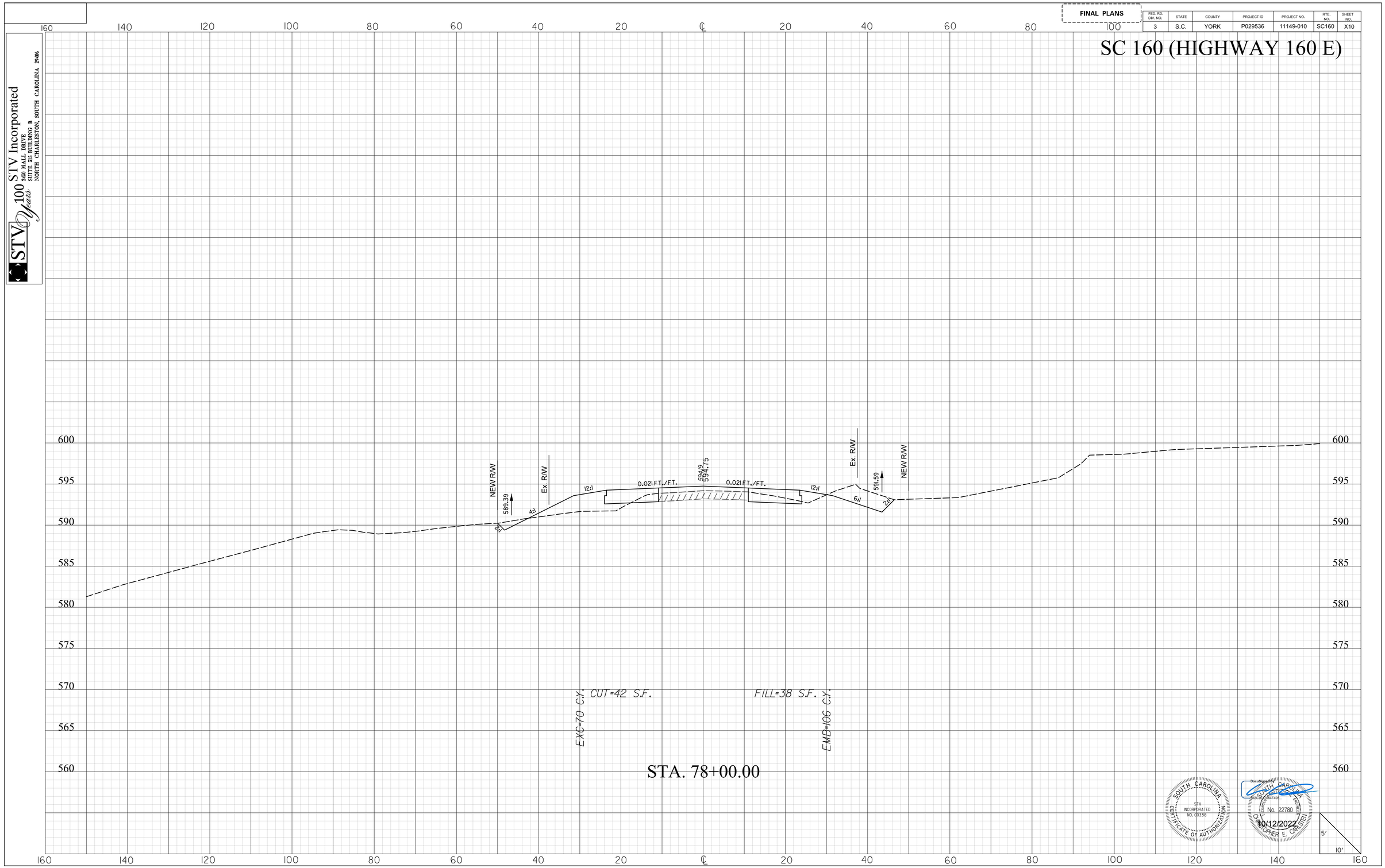
SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
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CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
CHRISTOPHER E. CARSTEN
10/12/2022

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SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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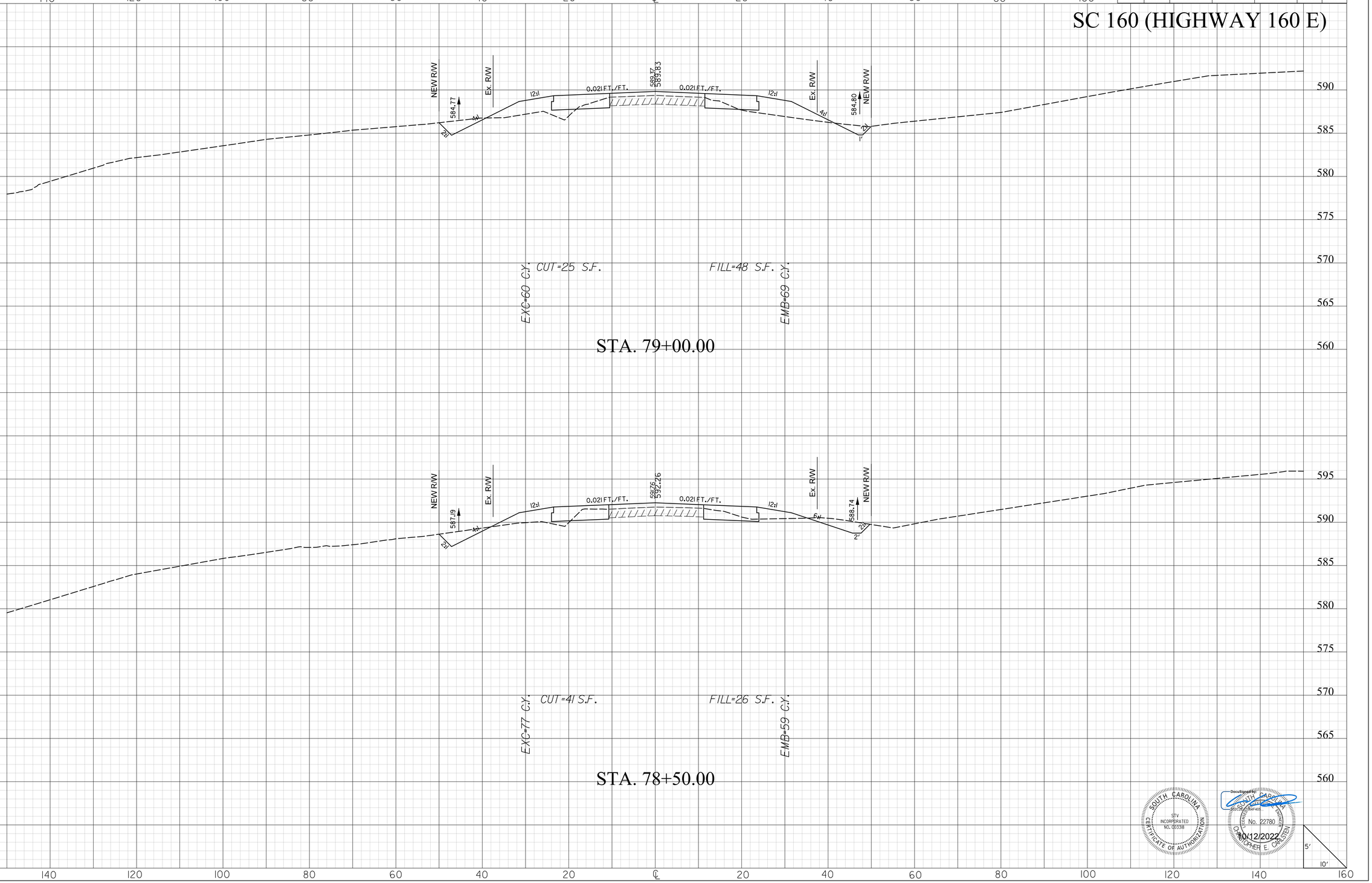
SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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STV 100 Years
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2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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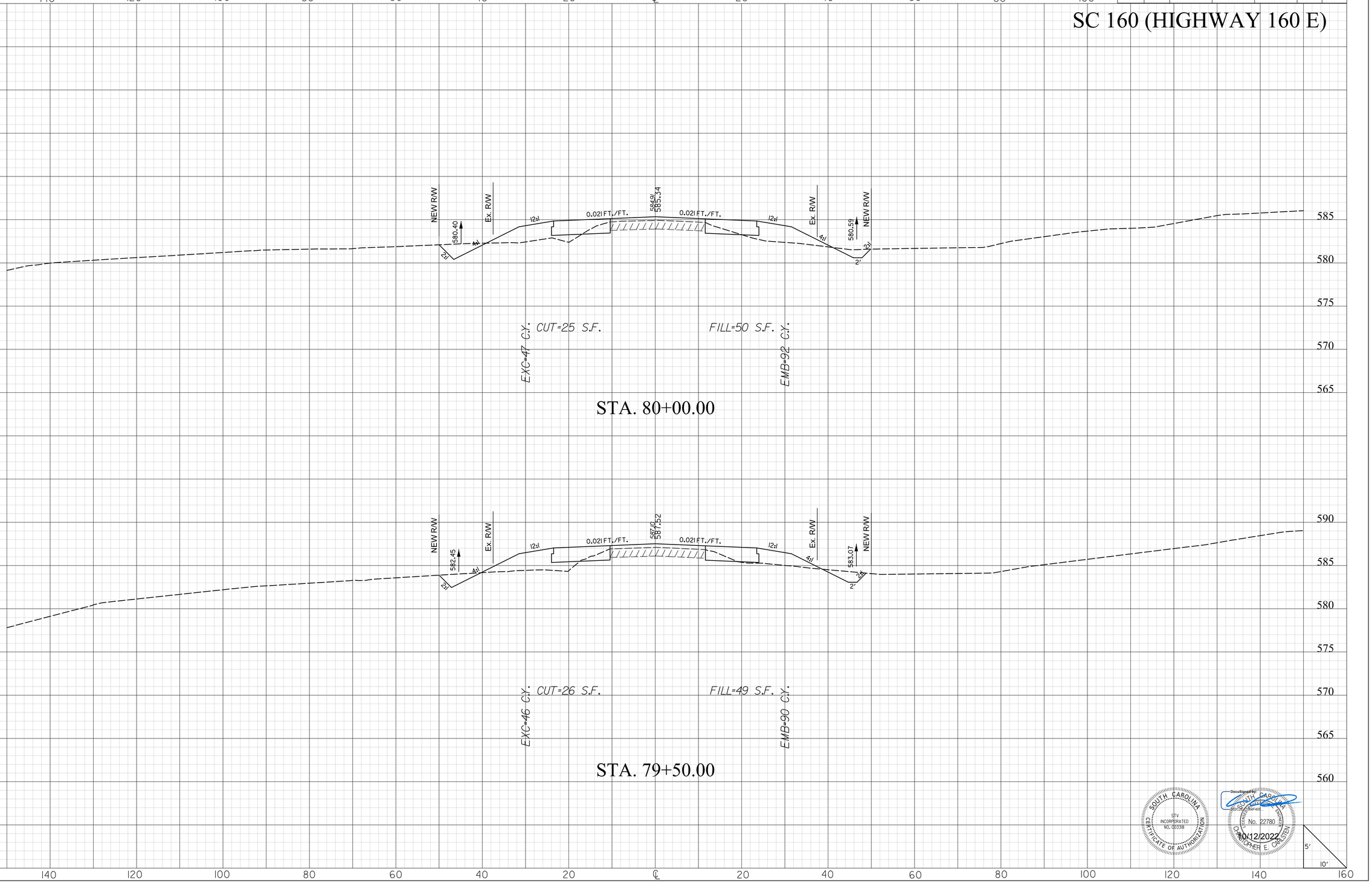

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARTER
10/12/2022

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STV 100 Years
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2400 MALL DRIVE
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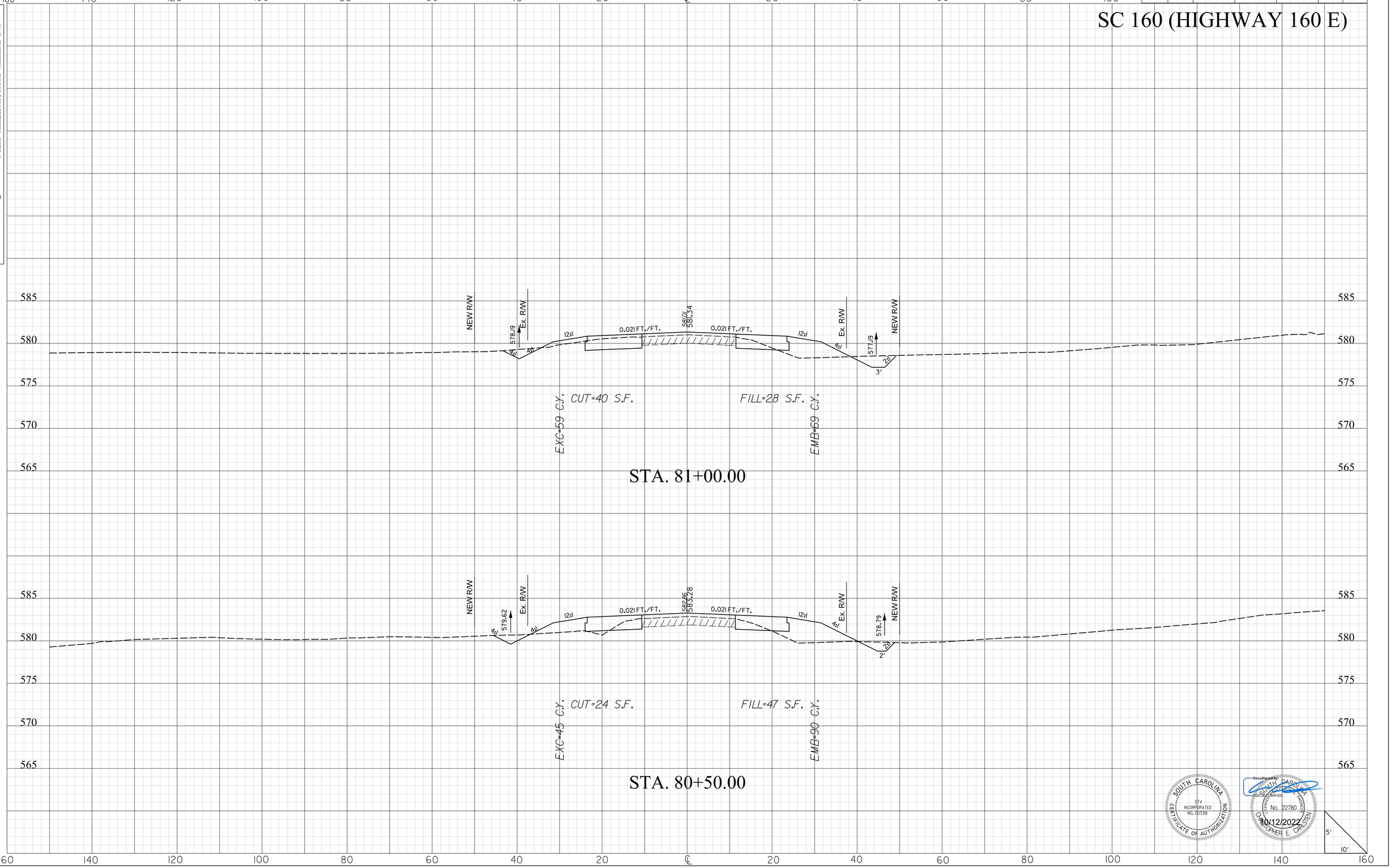
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X13

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA STV INCORPORATED NO. C0338 CERTIFICATE OF AUTHORIZATION

Document Signed by: SOUTH CAROLINA 150-C5E1-4BAF405... REGISTERED No. 22780 PROFESSIONAL ENGINEER CHRISTOPHER E. CARLSON

10/12/2022

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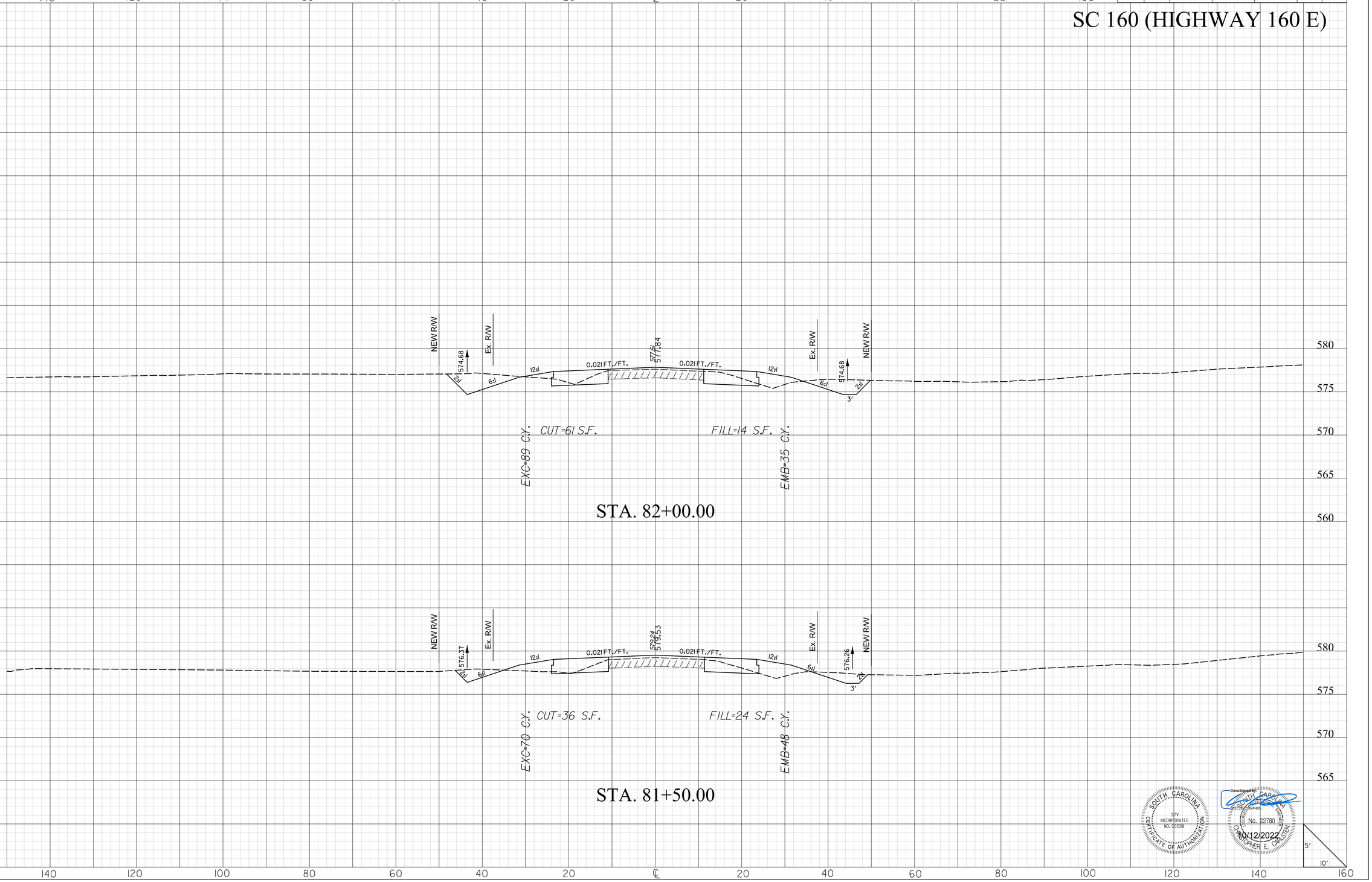
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X14

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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No. 22780
CHRISTOPHER E. CARLSON
10/12/2022

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FINAL PLANS

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3	S.C.	YORK	P029536	11149-010	SC160	X15

STV Incorporated
2400 MALL DRIVE
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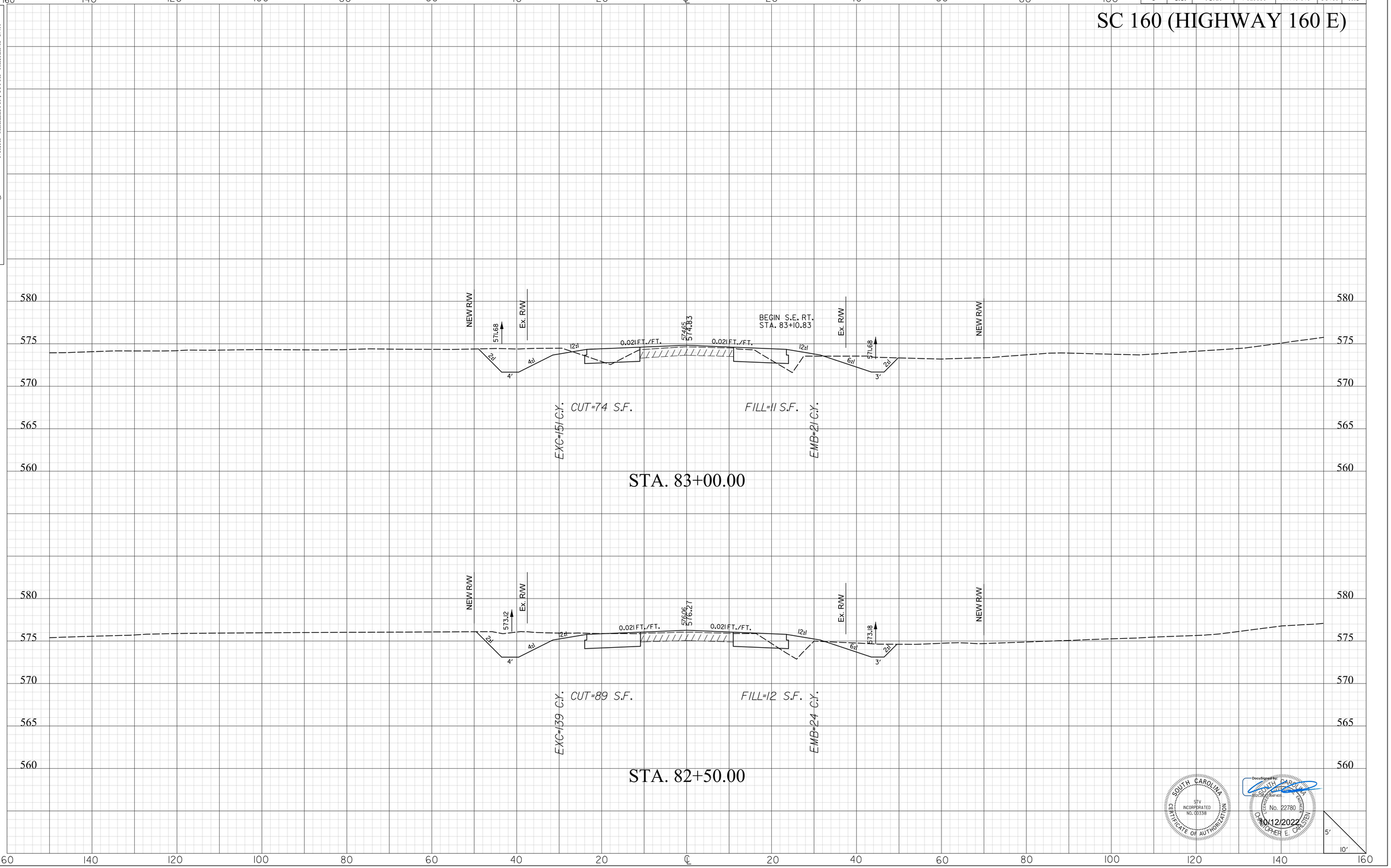
NORTH CHARLESTON, SOUTH CAROLINA 29406

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
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CERTIFICATE OF AUTHORIZATION NO. C00338

DocuSigned by:
SOUTH CAROLINA
No. 22780
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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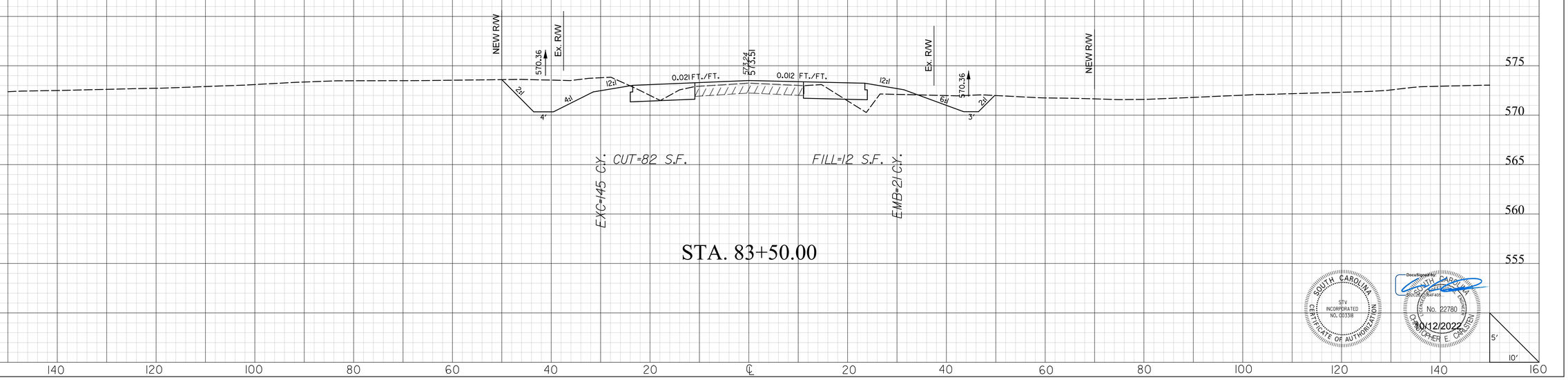
SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CARSTENS 10/12/2022

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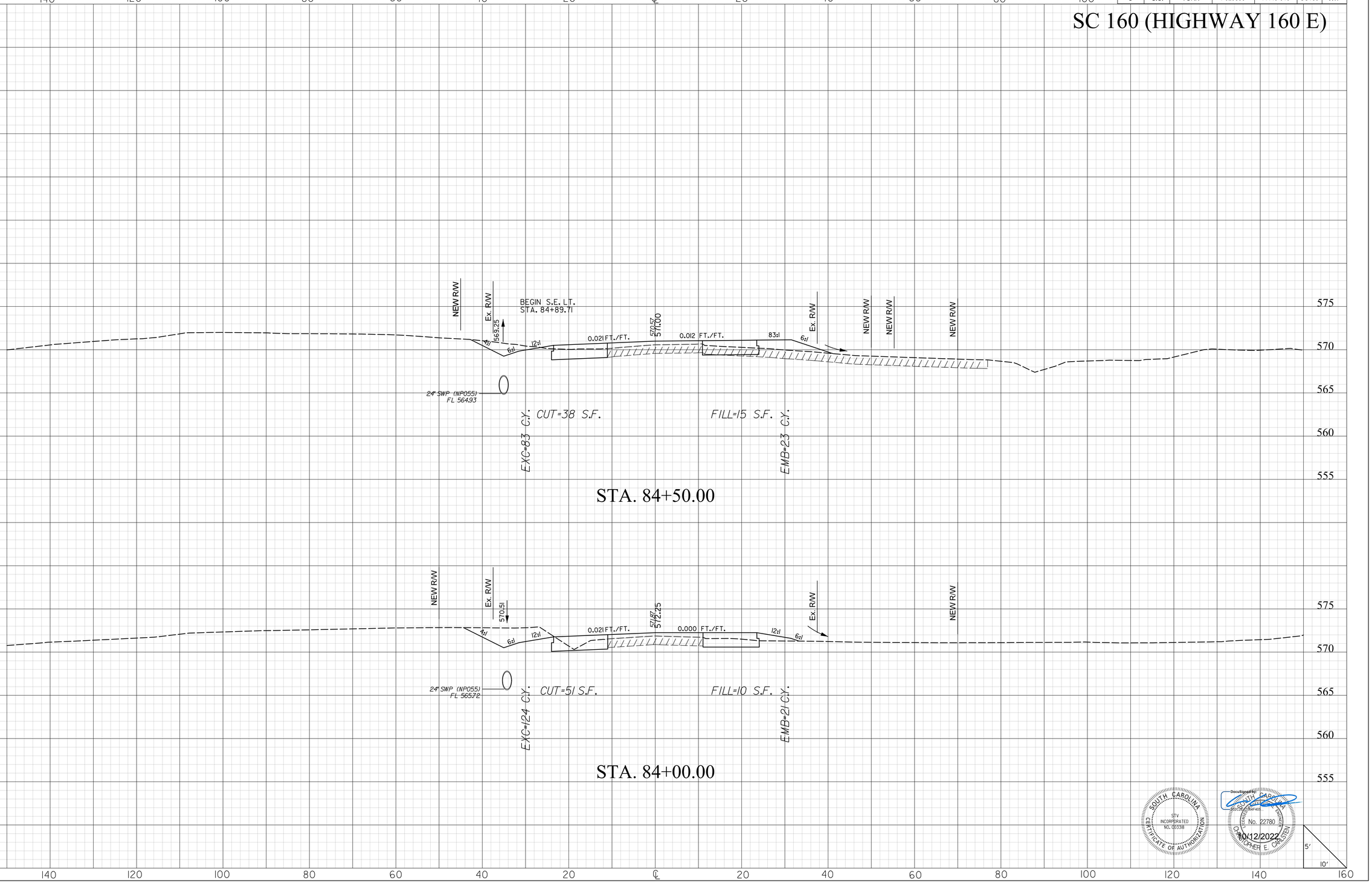
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X17

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

Documents signed by: JOSEPH E. CARLSTON
No. 22780
10/12/2022

mastilg
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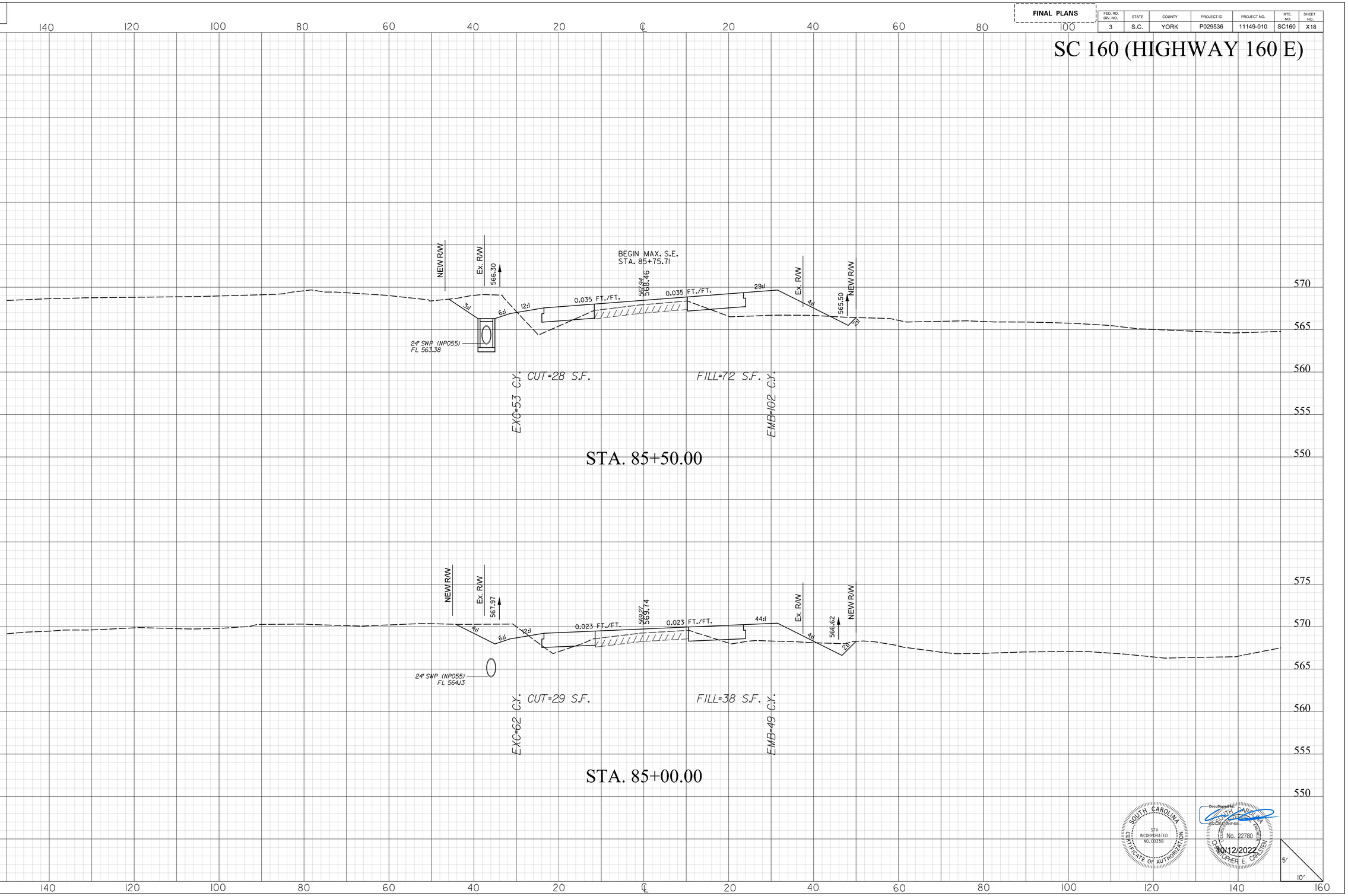
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X18

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

Docusigned by:
CHRISTOPHER E. CARLSON
No. 22780
10/12/2022

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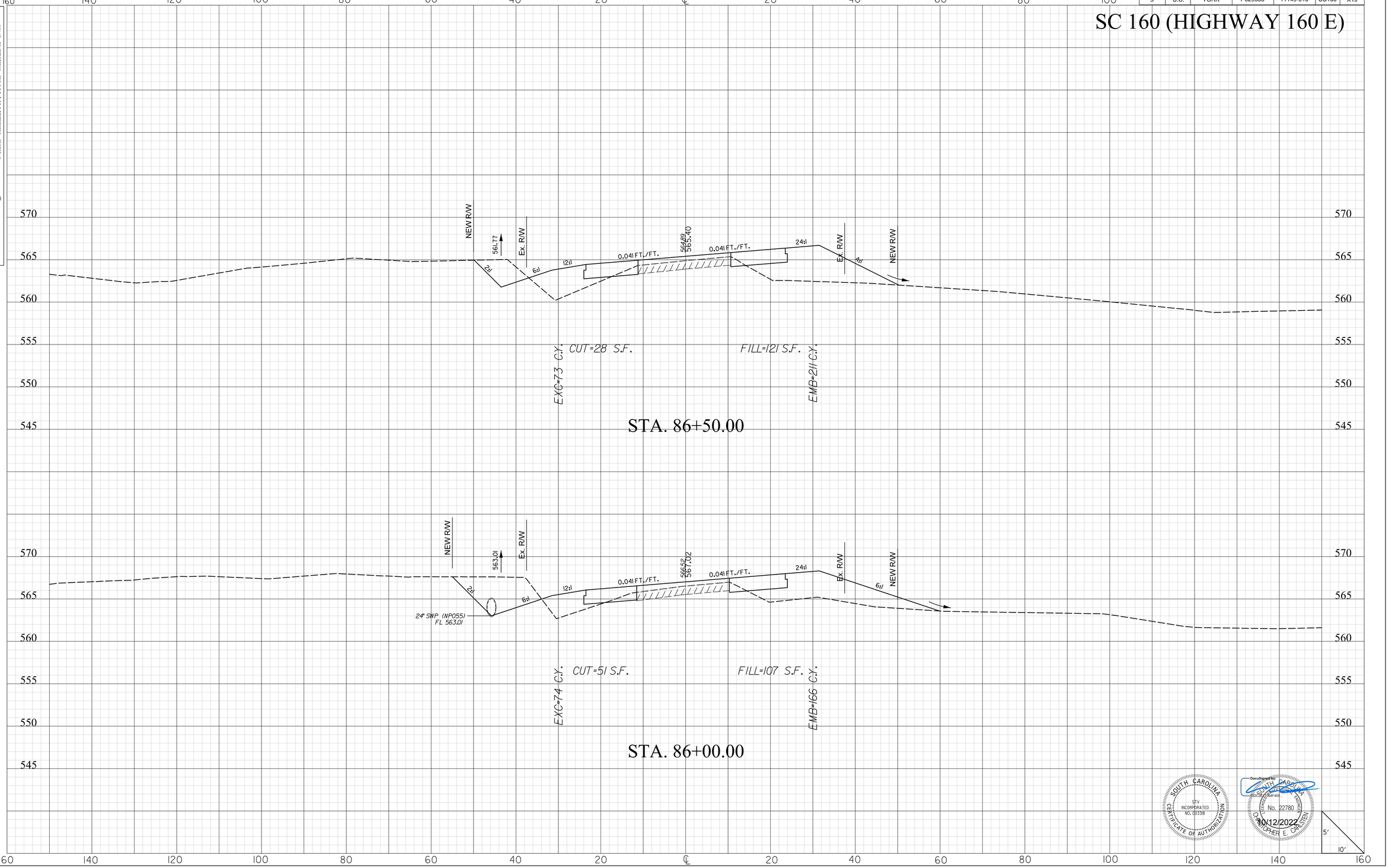
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X19

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

SOUTH CAROLINA No. 22780 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER E. CARSTEN 10/12/2022

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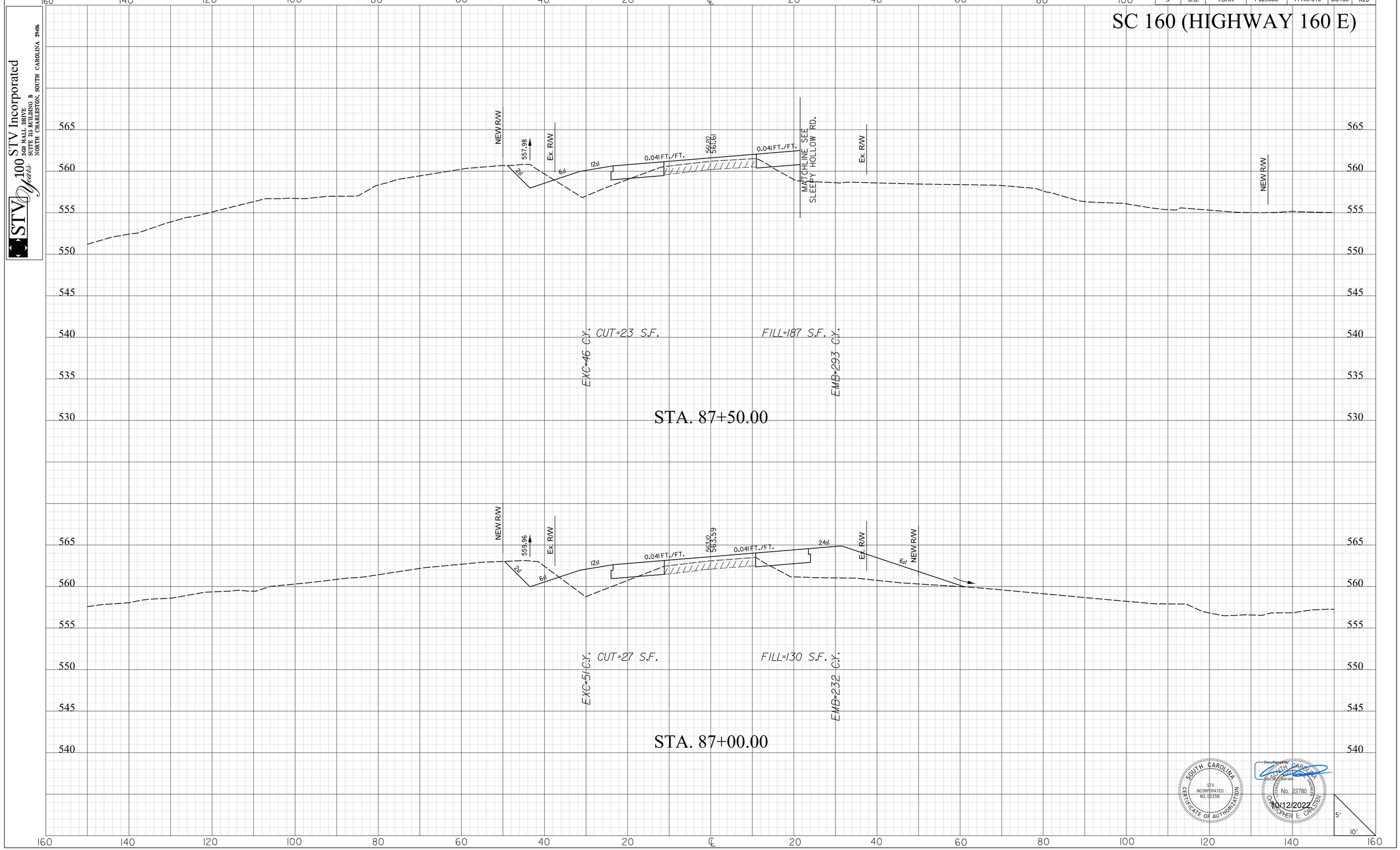
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X20

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C03318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL
ENGINEER
CHRISTOPHER E. CARSTEN
10/12/2022

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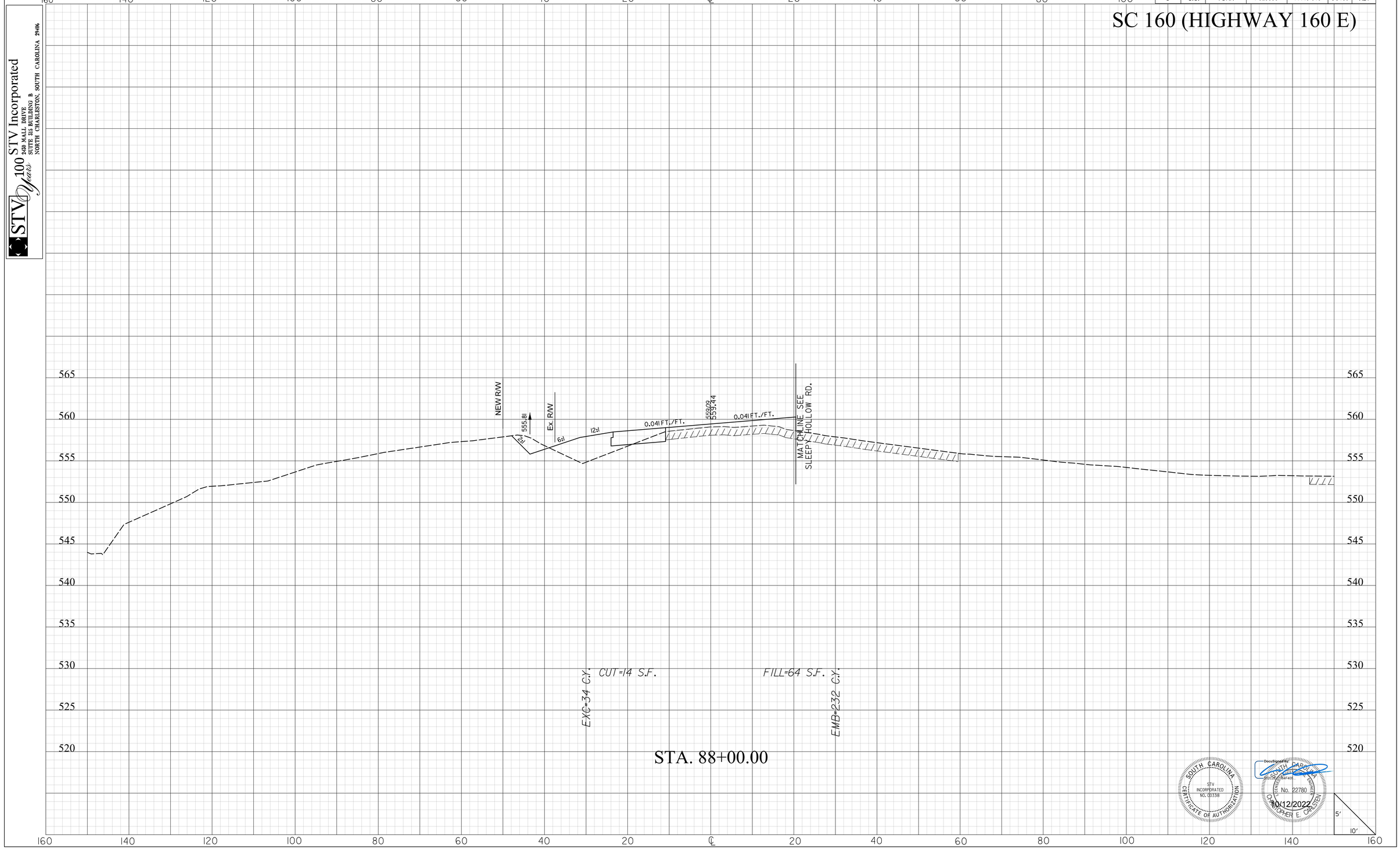
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X21

SC 160 (HIGHWAY 160 E)

STV Incorporated
100 STV Years
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL
ENGINEER
JOSEPH E. CARLSEN

10/12/2022

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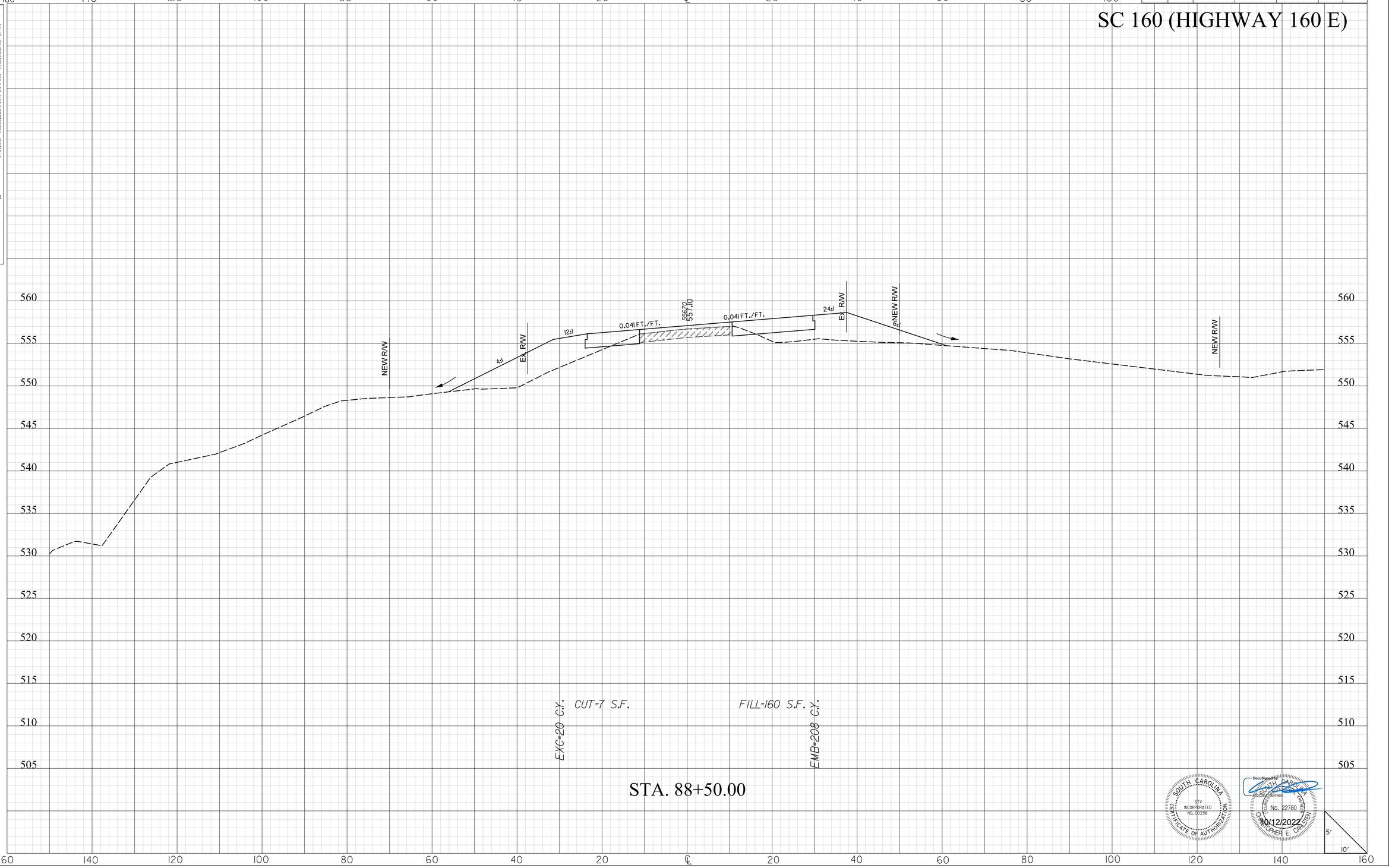
STV 100 STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X22

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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No. 22780
CHRISTOPHER E. CARLSON
10/12/2022

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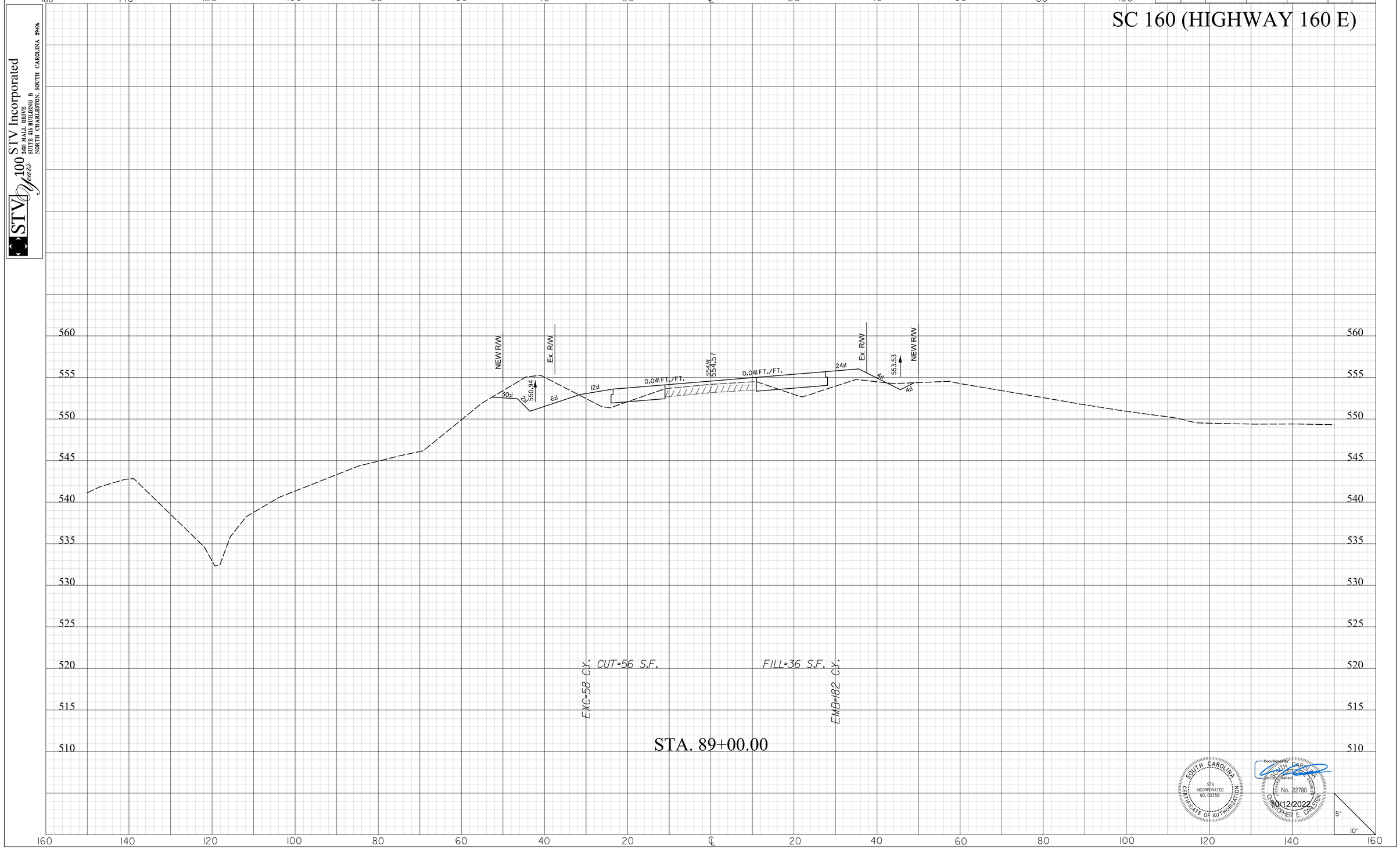
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X23

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTEN
10/12/2022

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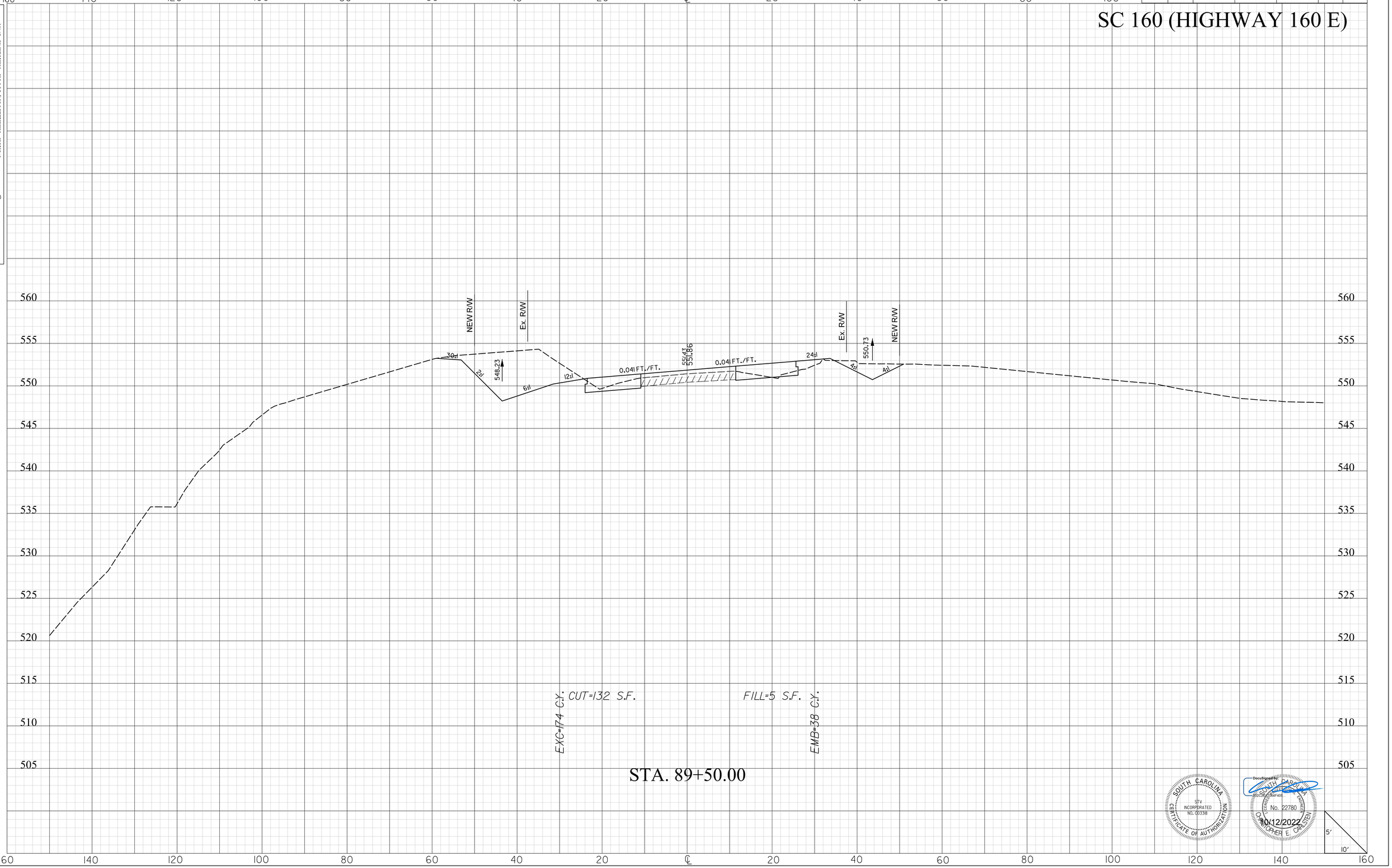
STV 100 STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X24

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION
NO. C03138

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSON
10/12/2022

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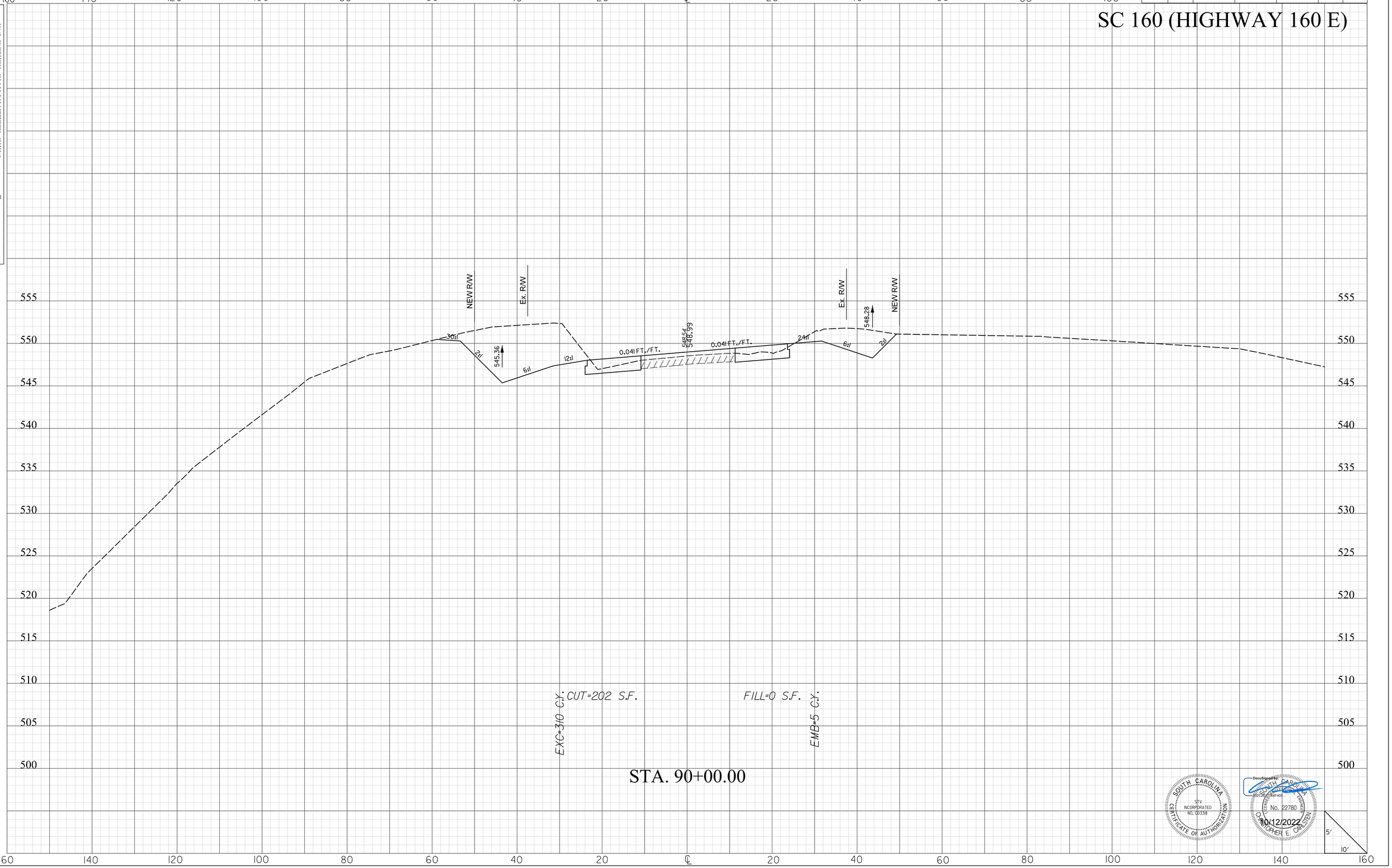
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X25

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

Document Signed
SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARLSON
10/12/2022

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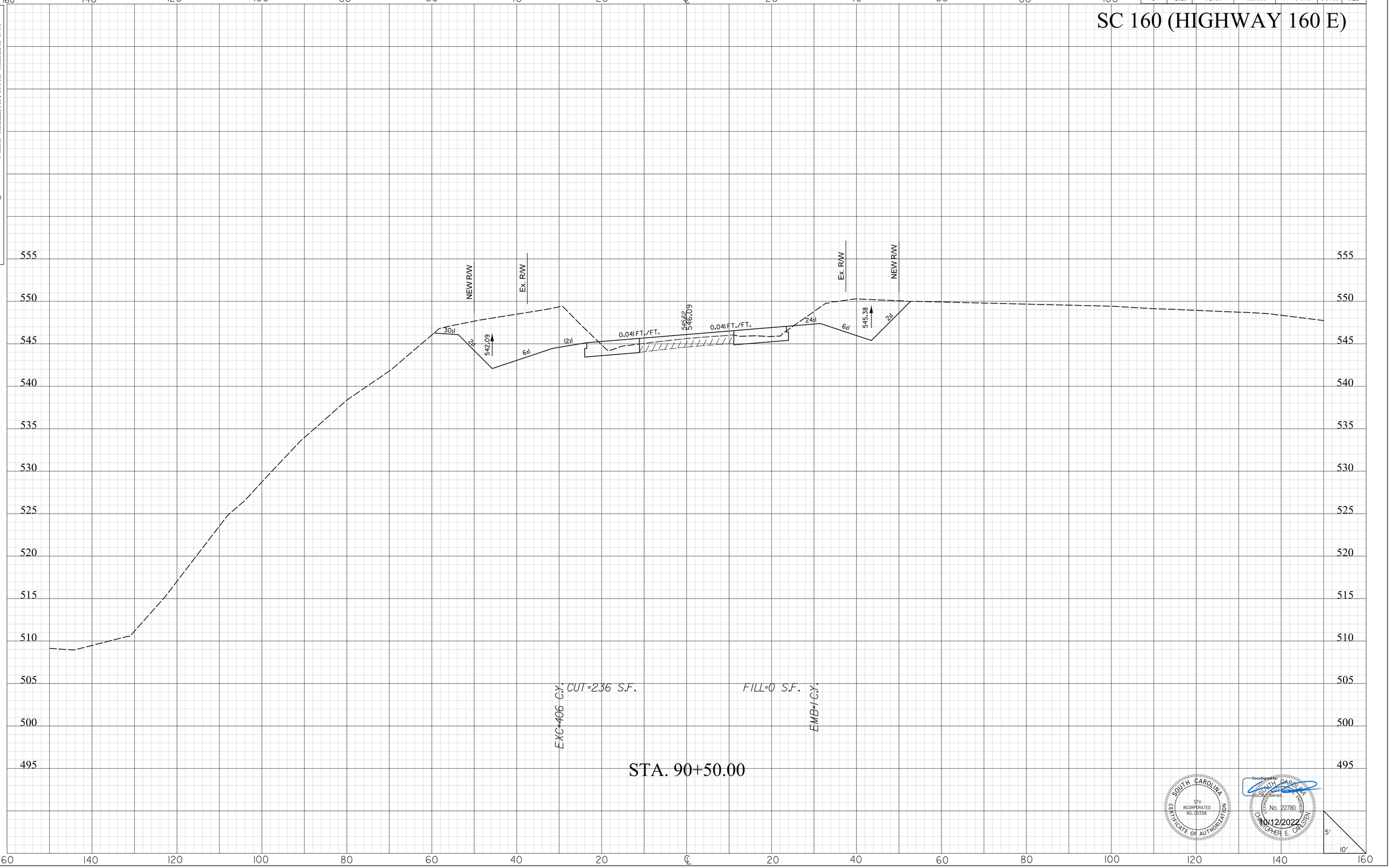
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X26

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
CERTIFICATE OF AUTHORIZATION
NO. C03138

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
10/12/2022

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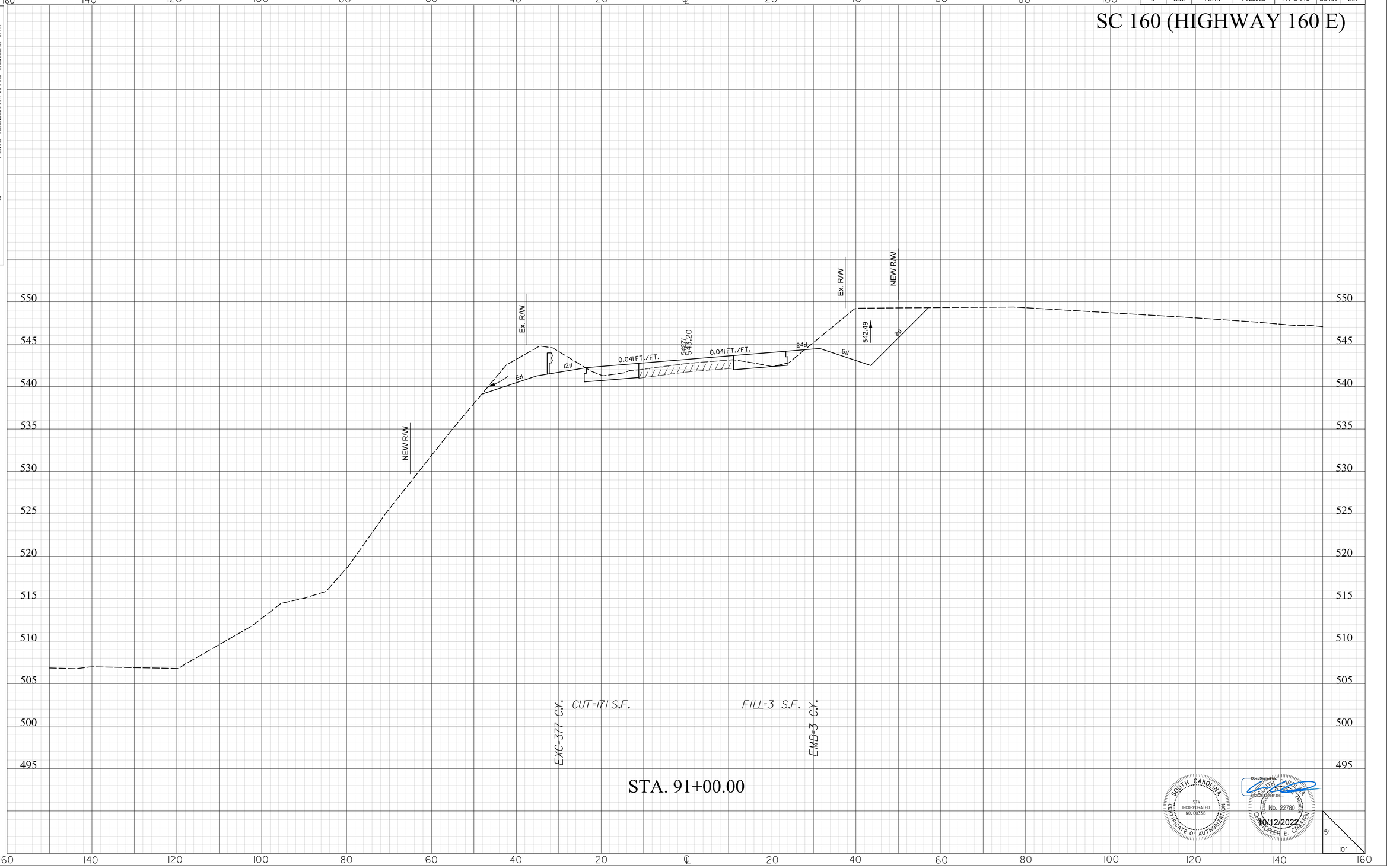
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X27

SC 160 (HIGHWAY 160 E)

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSON

10/12/2022

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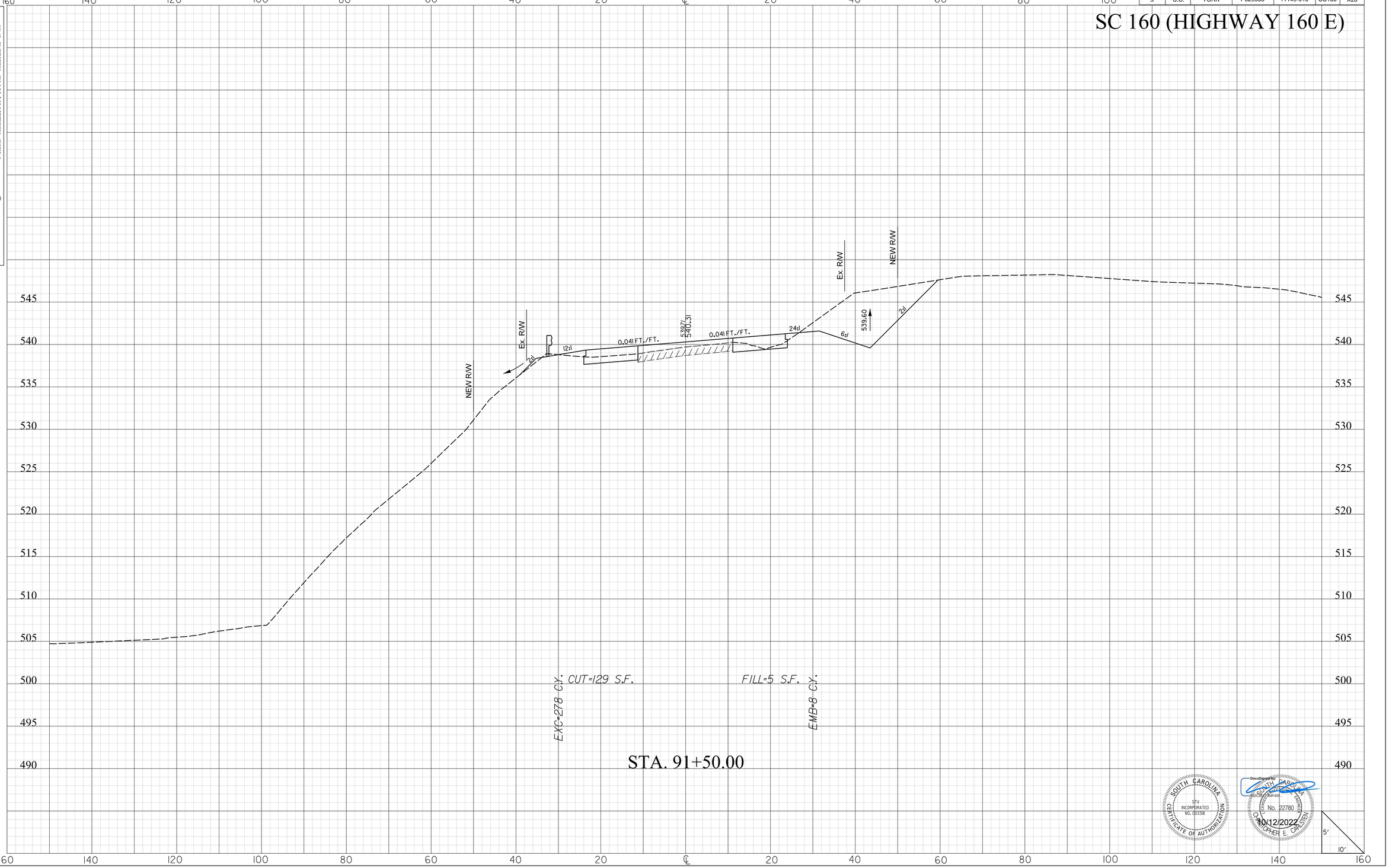
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X28

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
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CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSON

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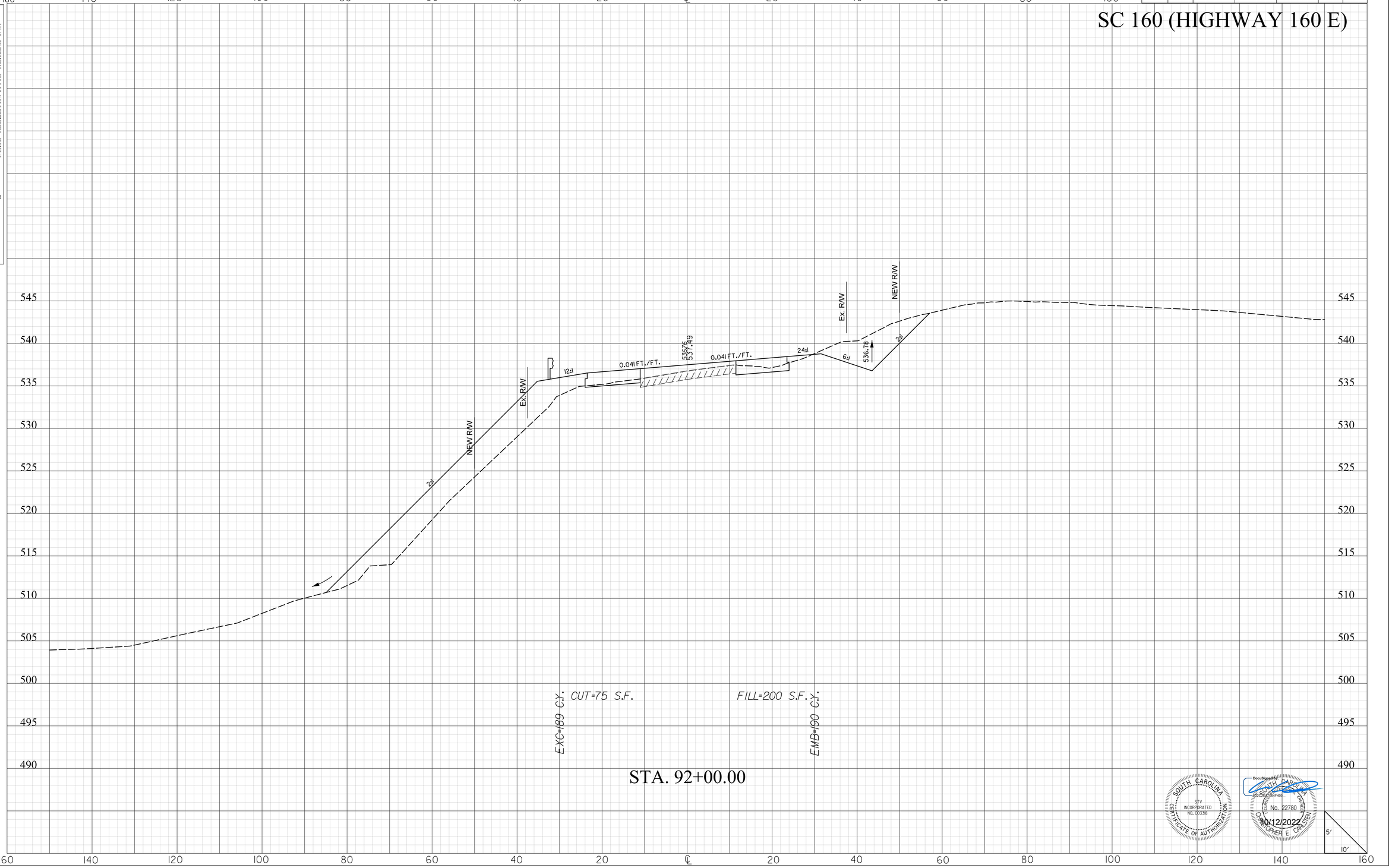
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X29

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSON
10/12/2022

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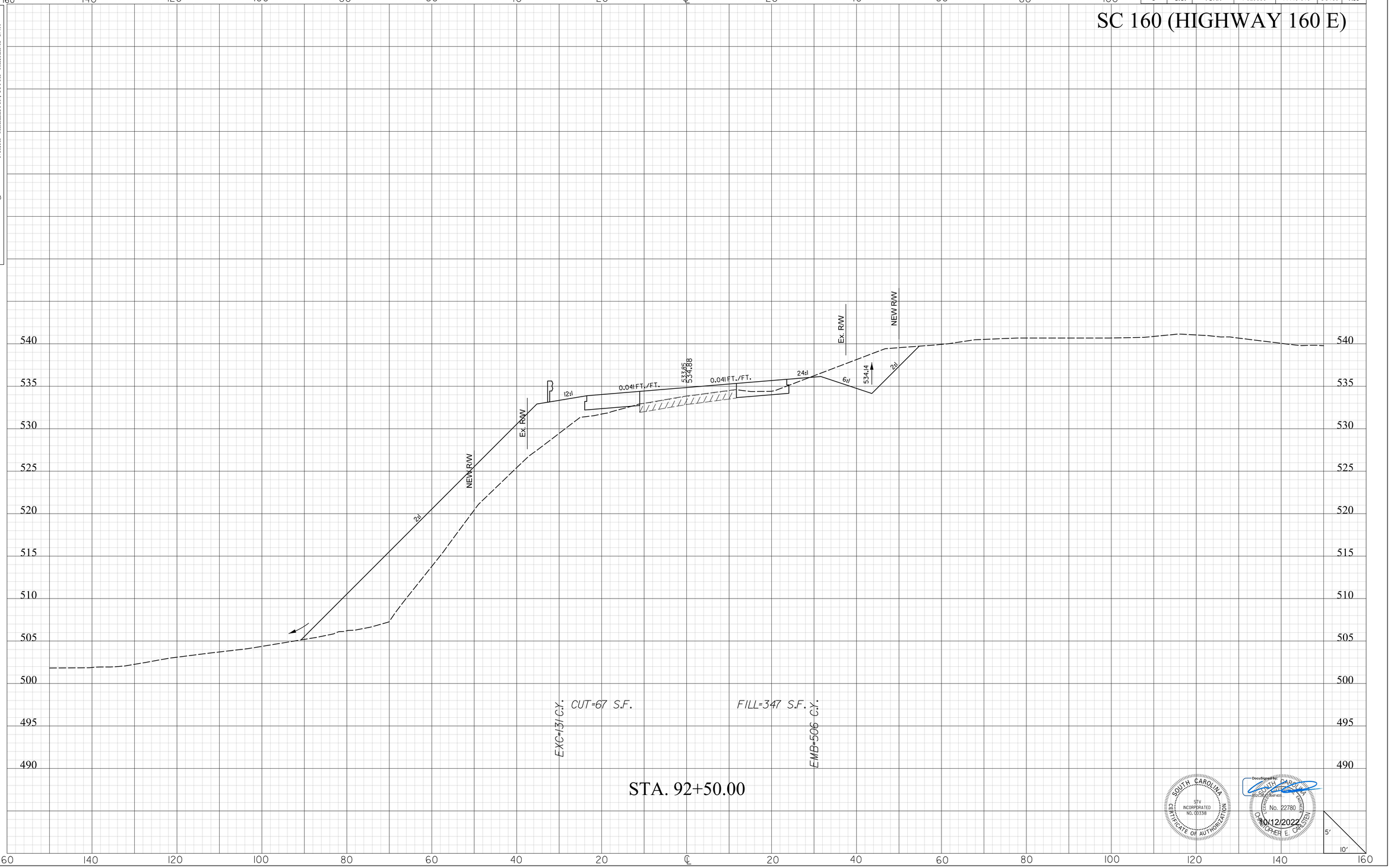
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X30

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C03338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTEN
10/12/2022

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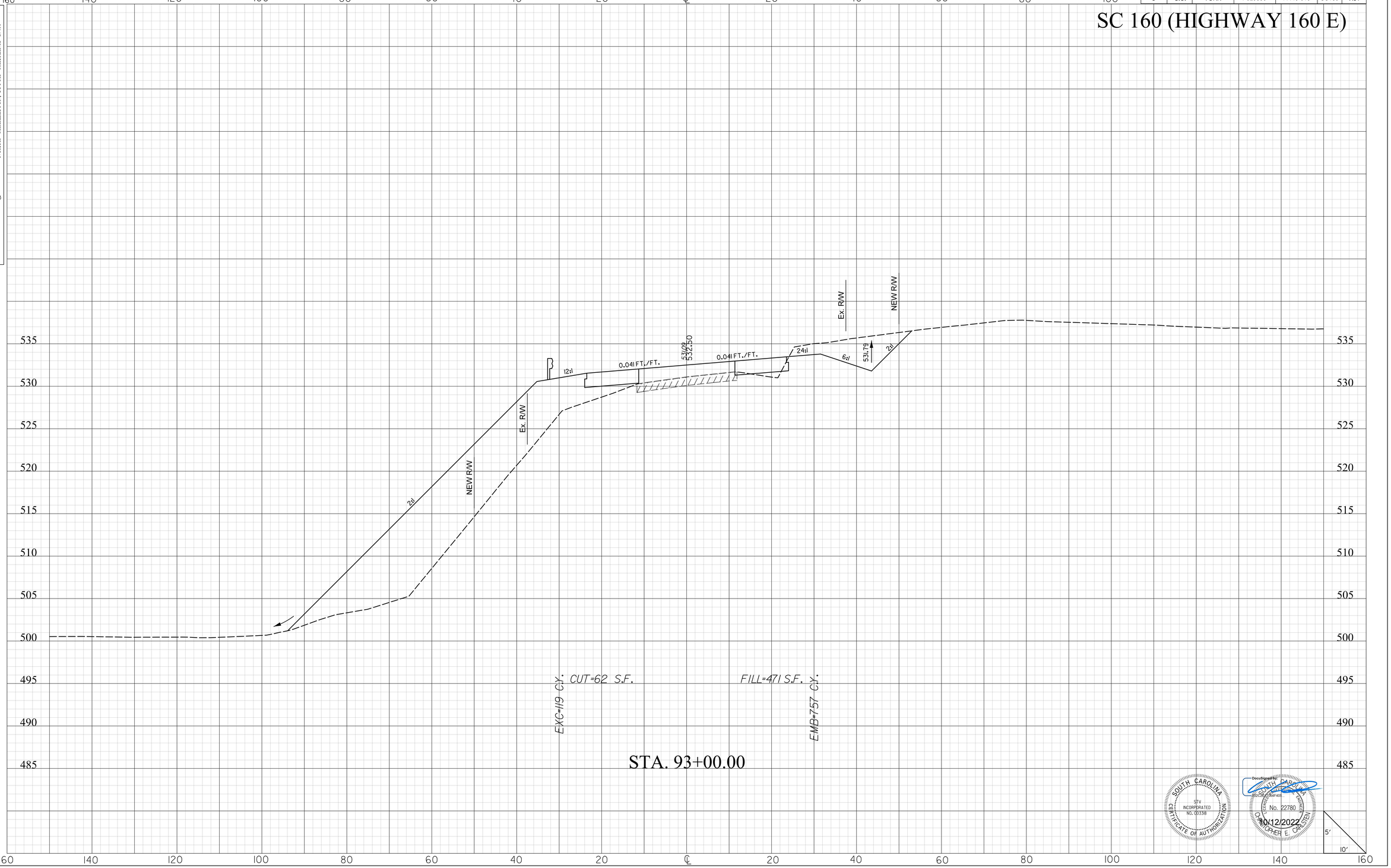
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X31

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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STV 100 Years
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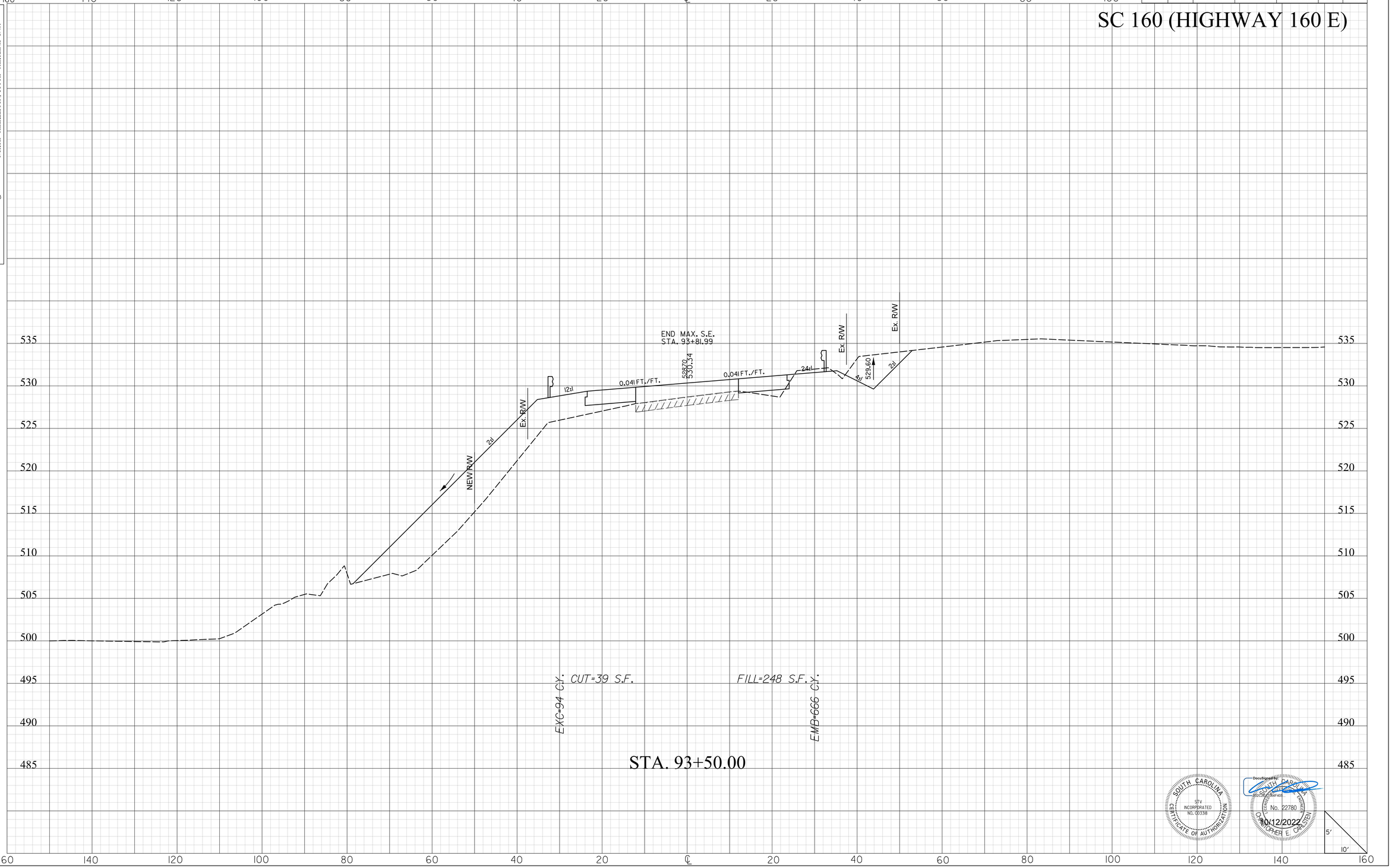
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X32

SC 160 (HIGHWAY 160 E)



EXC=94 C.Y. CUT=39 S.F.

FILL=248 S.F. EMB=666 C.Y.

STA. 93+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
PROFESSIONAL ENGINEER
JOSHUA E. CARLSON

10/12/2022

5'
10'

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STV 100 Years
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2400 MALL DRIVE
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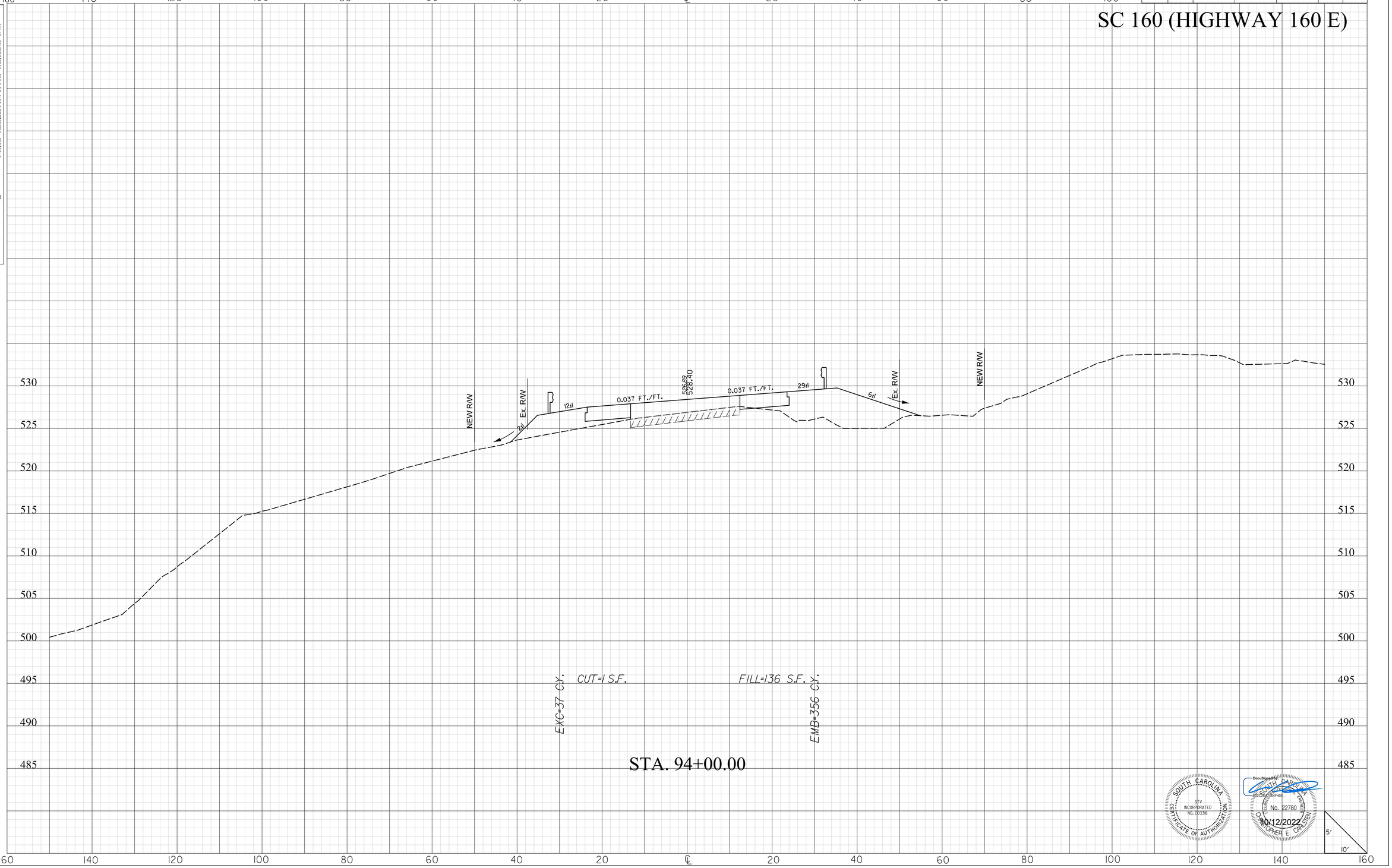
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X33

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

STV Incorporated
100 STV Years
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
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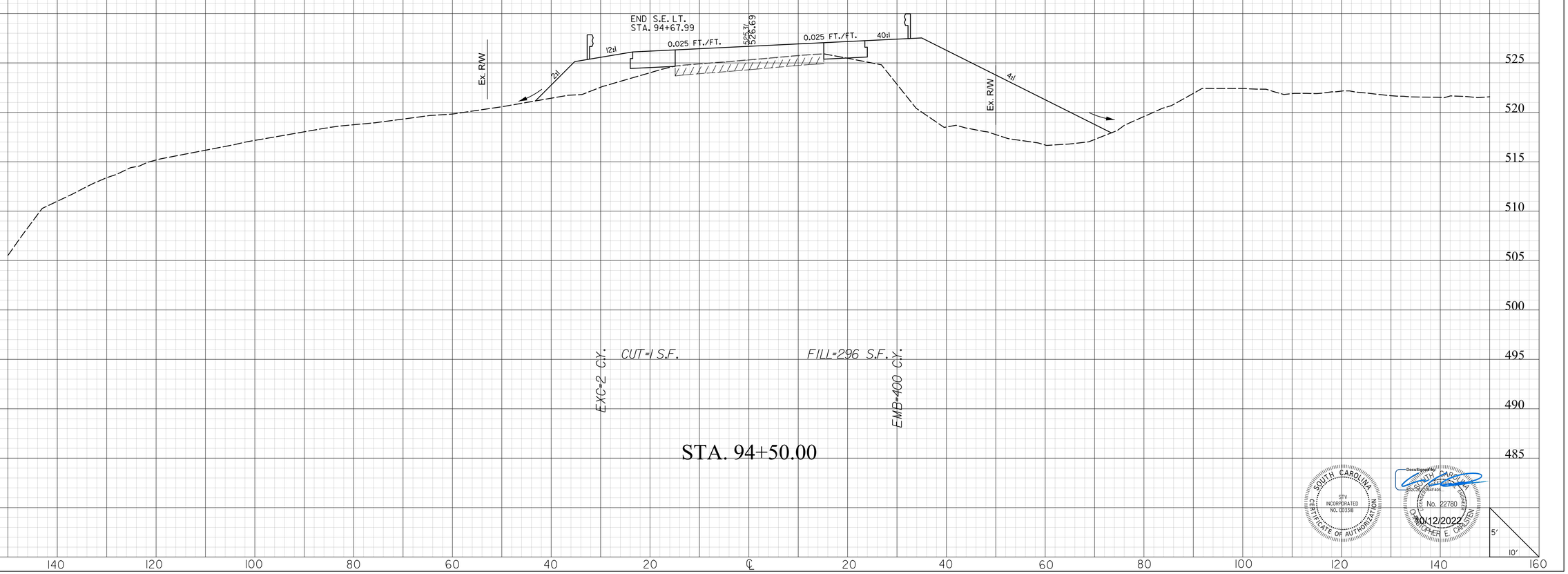
SC 160 (HIGHWAY 160 E)



STA. 94+50.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SCOTT PARKER
No. 22780
CHRISTOPHER E. CARSTEN
10/12/2022

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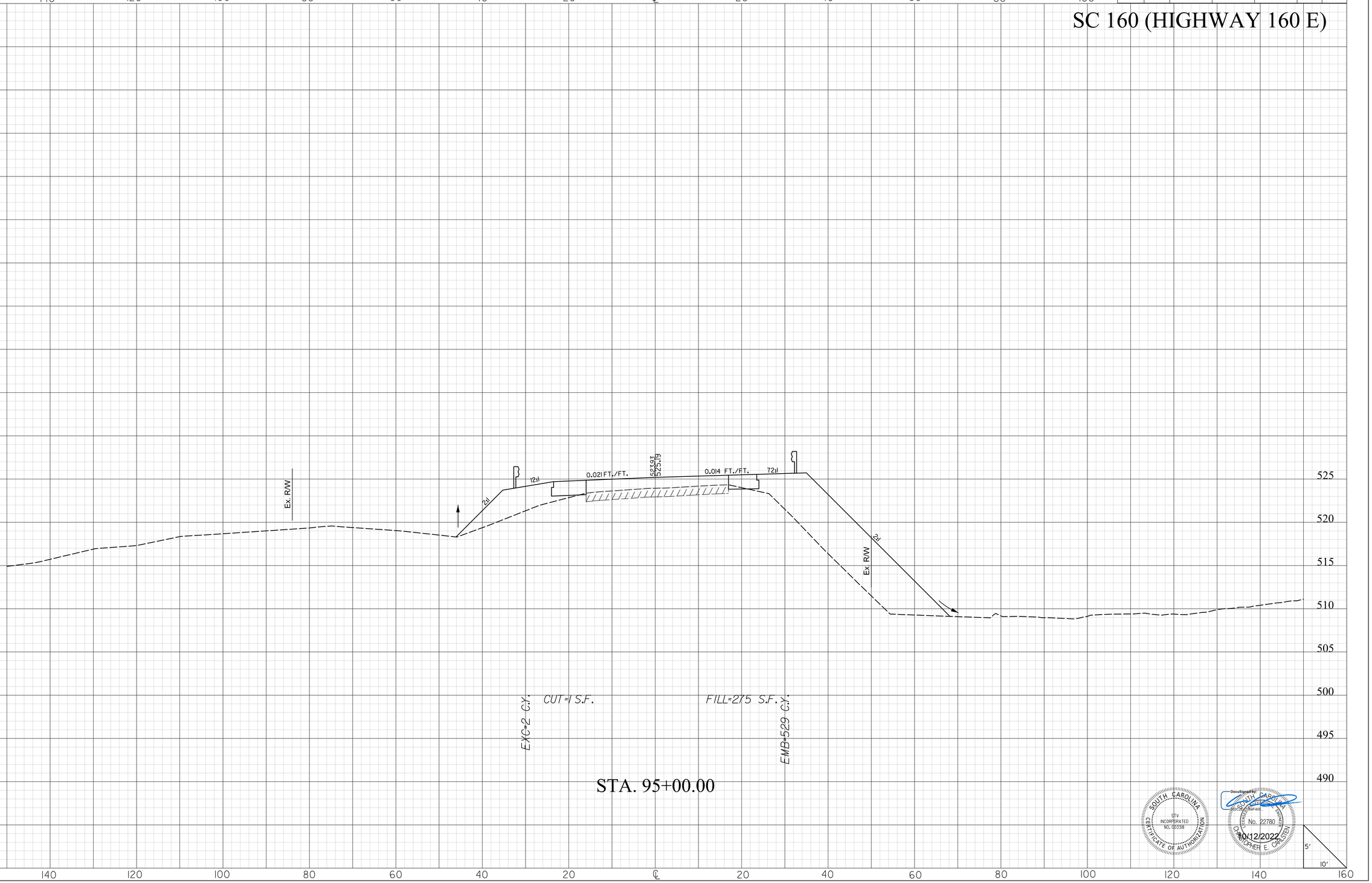
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X35

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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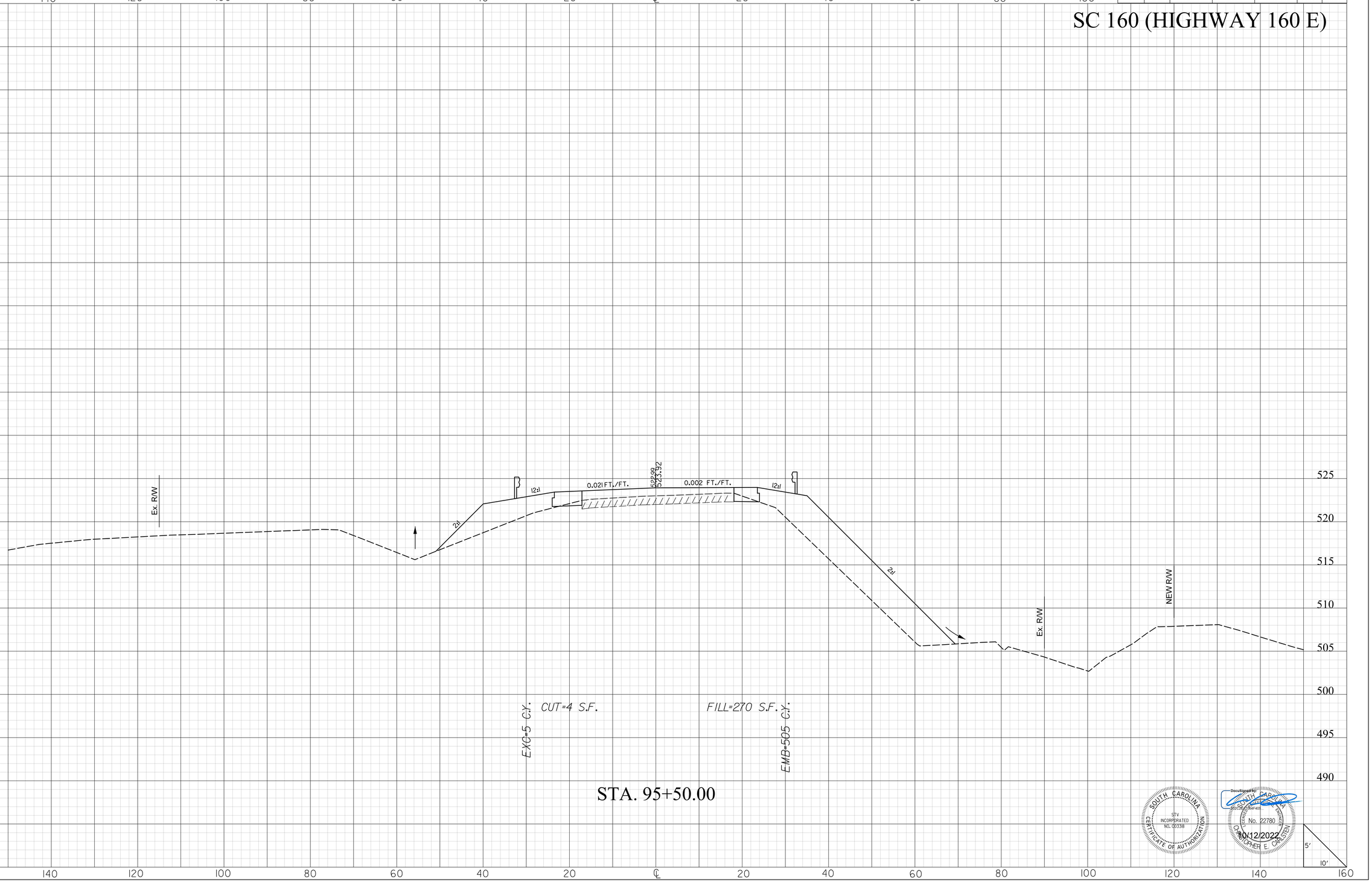
DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X36

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C00338

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 22780 CHRISTOPHER E. CASTEEL 10/12/2022

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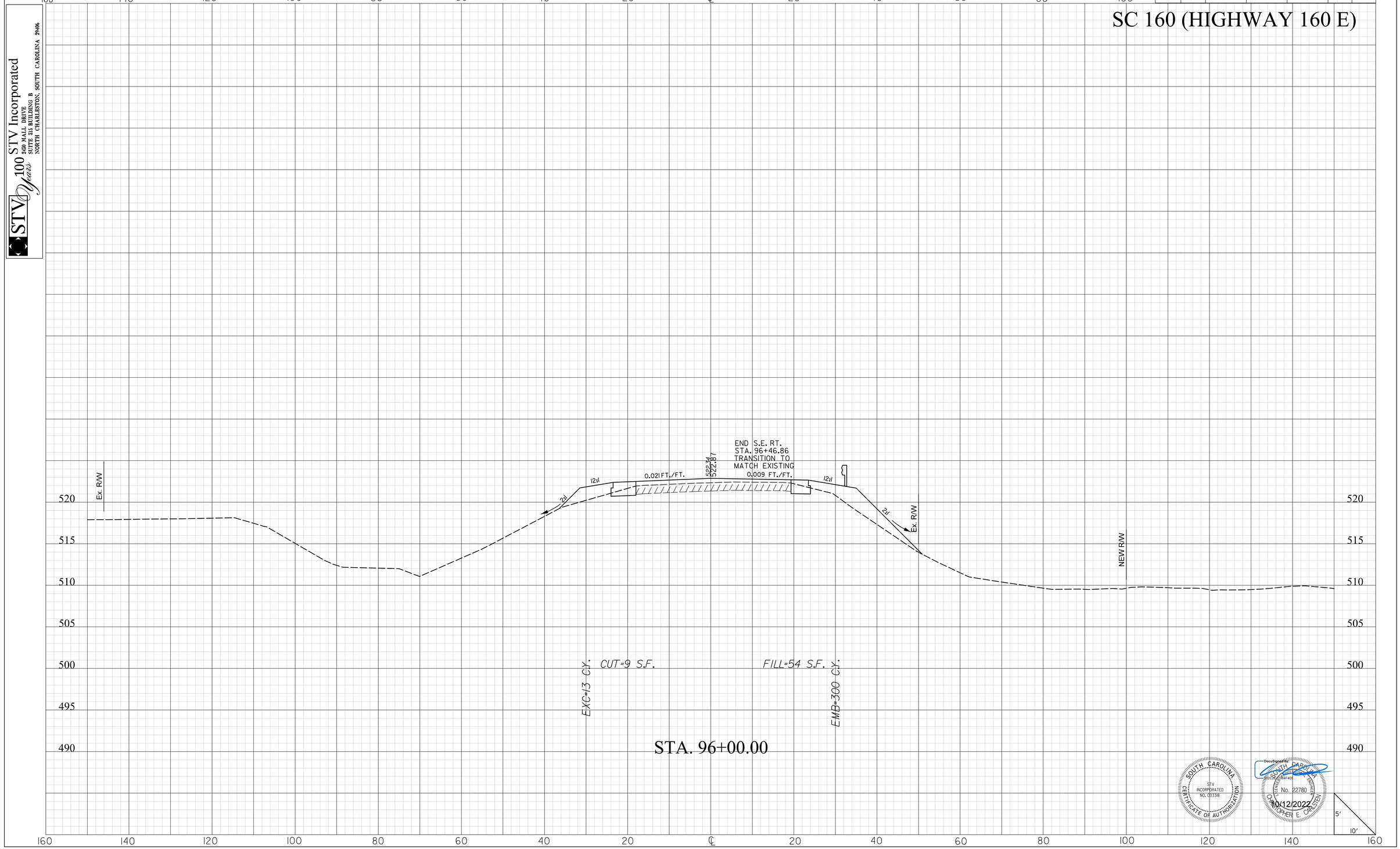
DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X37

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

masflitg
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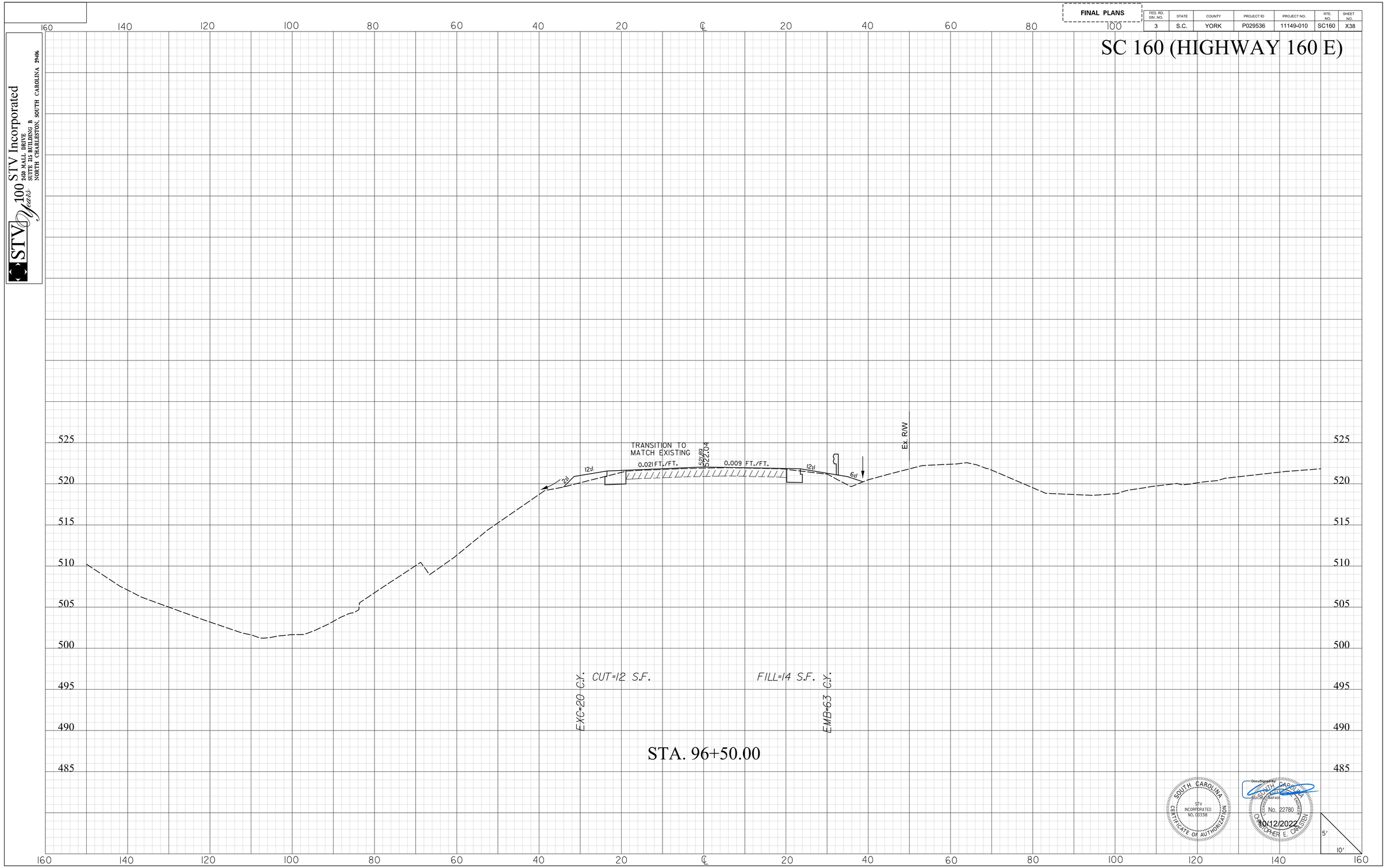
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X38

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X39

SC 160 (HIGHWAY 160 E)

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100

530 525 520 515

Ex. R/W

520.99

STA. 97+50.00

SURVEY STA. 97+10.00
END ROADWAY WIDENING
BEGIN MILL AND RESURFACE
MATCH EXISTING GRADE
S.C. RTE. 160 (HIGHWAY 160 E.)

Ex. R/W

521.40
521.43

0.004 FT./FT. 0.004 FT./FT.

12'

Ex. R/W

530 525 520 515 510 505 500

EXC=15 C.Y. CUT=4 S.F. FILL=0 S.F. EMB=13 C.Y.

STA. 97+00.00

160 140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140 160

SOUTH CAROLINA
STV
INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARSTENS
10/12/2022

5'
10'

masflitg
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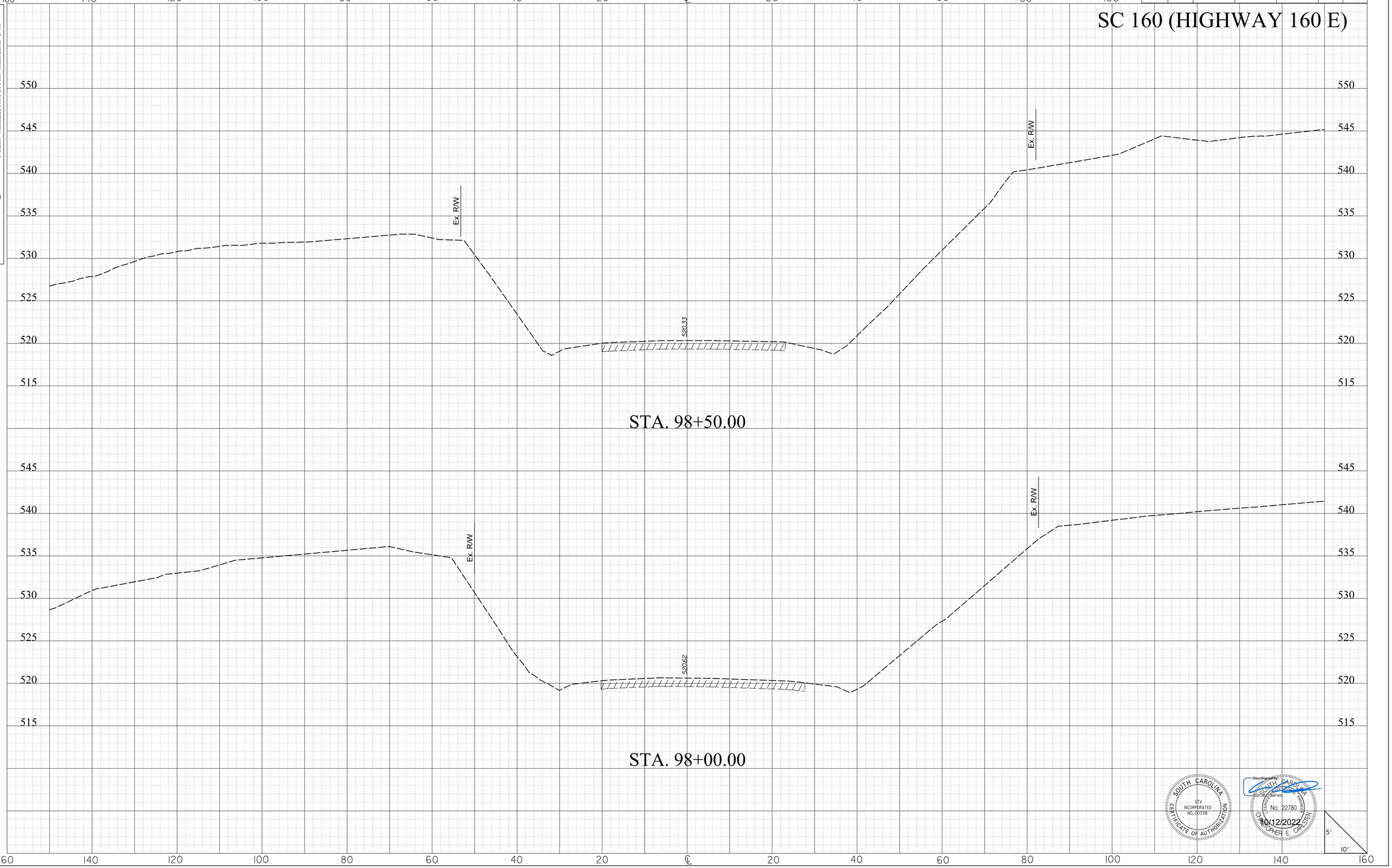
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X40

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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SOUTH CAROLINA
REGISTERED
No. 22780
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARLSON
10/12/2022

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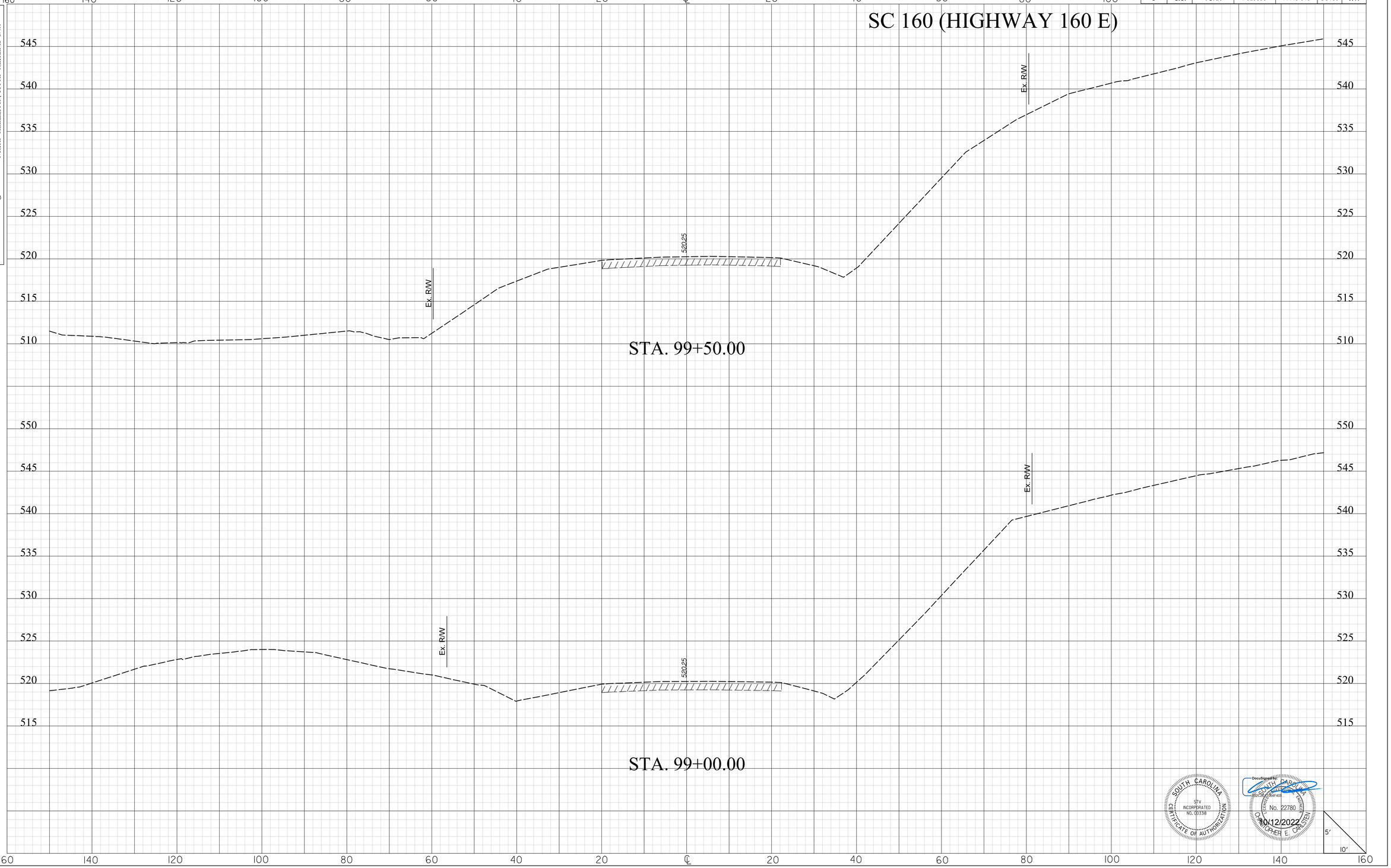
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X41

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SC 160 (HIGHWAY 160 E)



STA. 99+50.00

STA. 99+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

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SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARLSON
10/12/2022

5'
10'

masttlg
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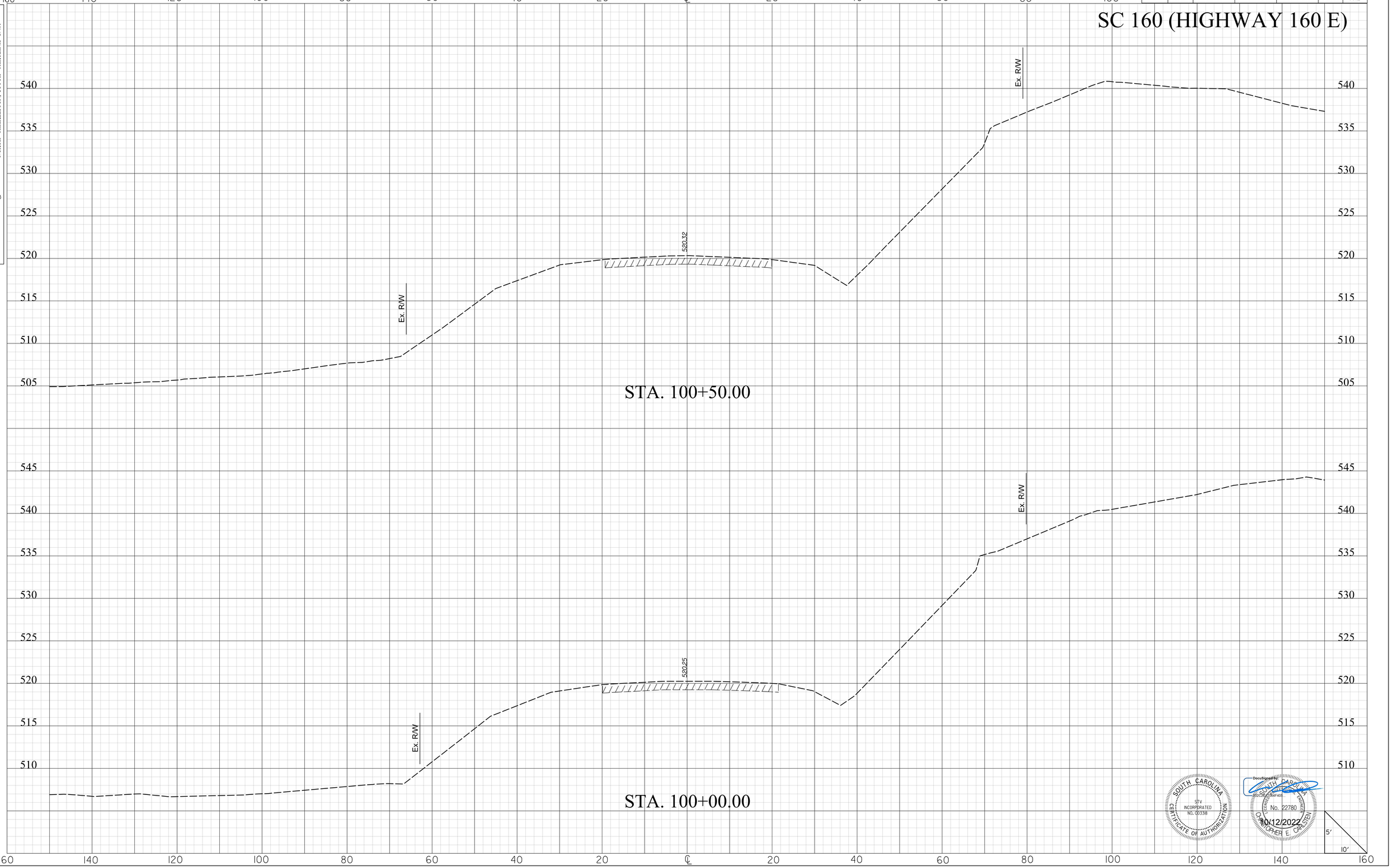
STV Incorporated
100 Years
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X42

SC 160 (HIGHWAY 160 E)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL
ENGINEER
CHRISTOPHER E. CARSTENS
10/12/2022

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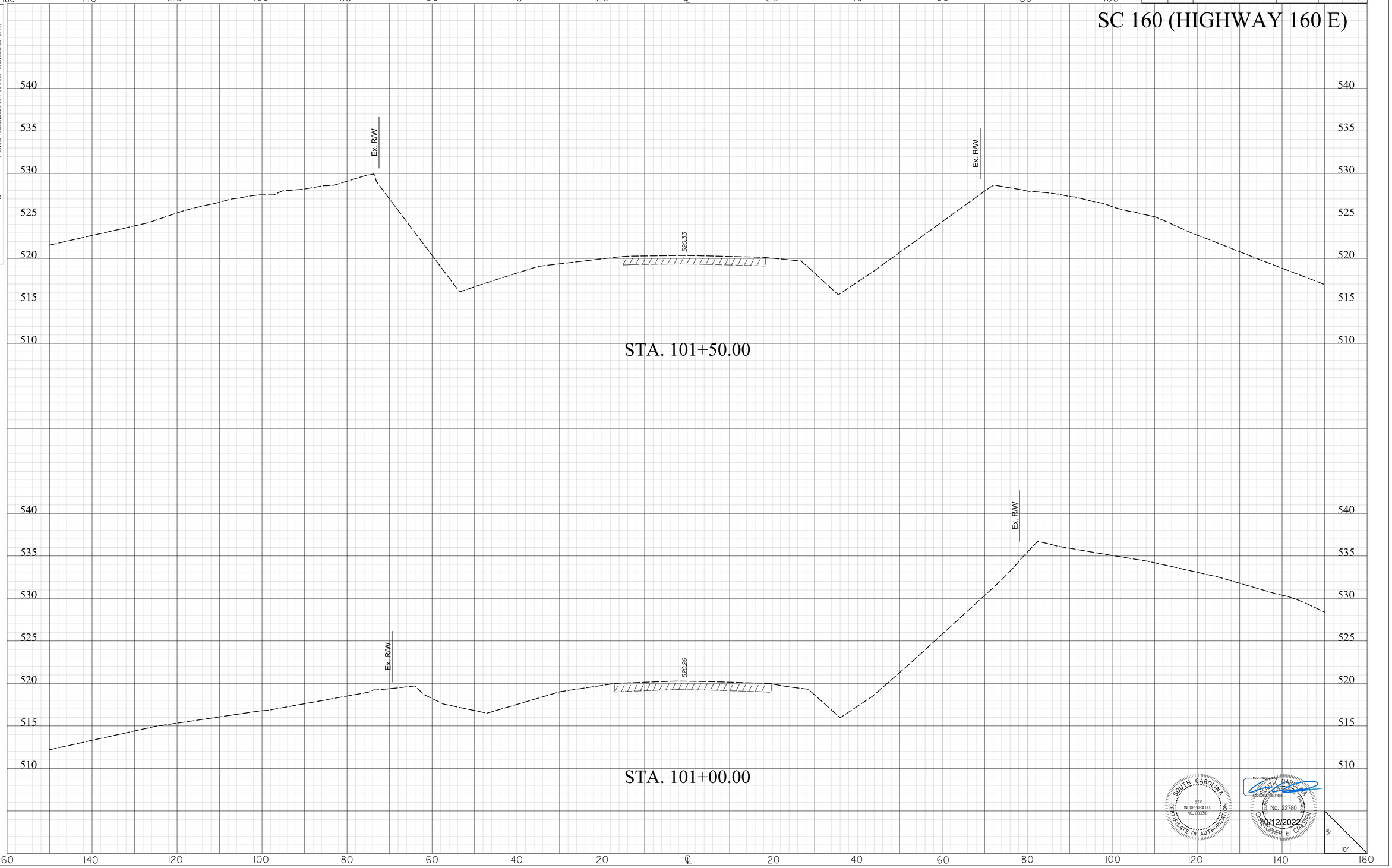
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X43

SC 160 (HIGHWAY 160 E)

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
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SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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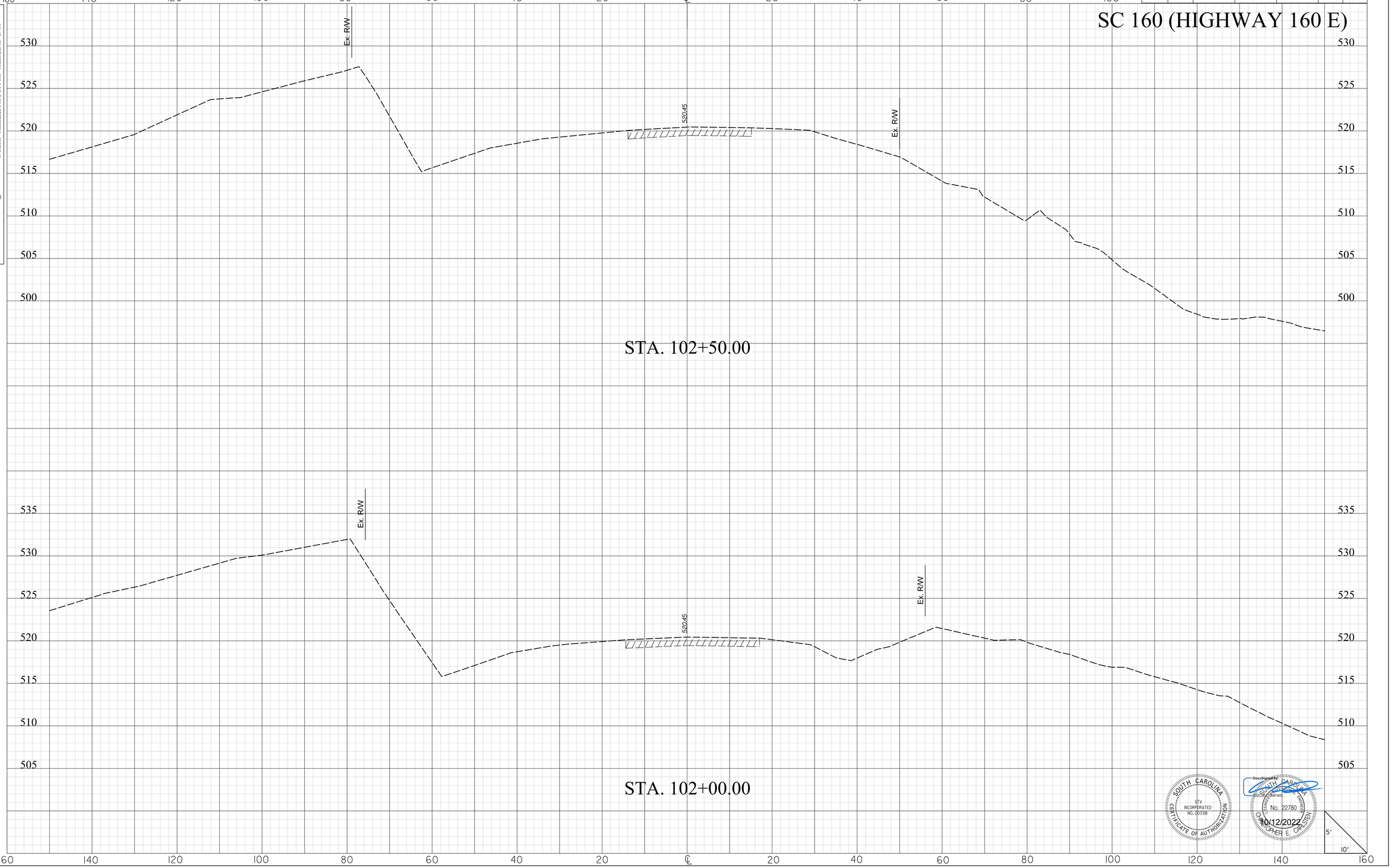
STV Incorporated
100 STV Years
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X44

SC 160 (HIGHWAY 160 E)



STA. 102+50.00

STA. 102+00.00

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
10/12/2022

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STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

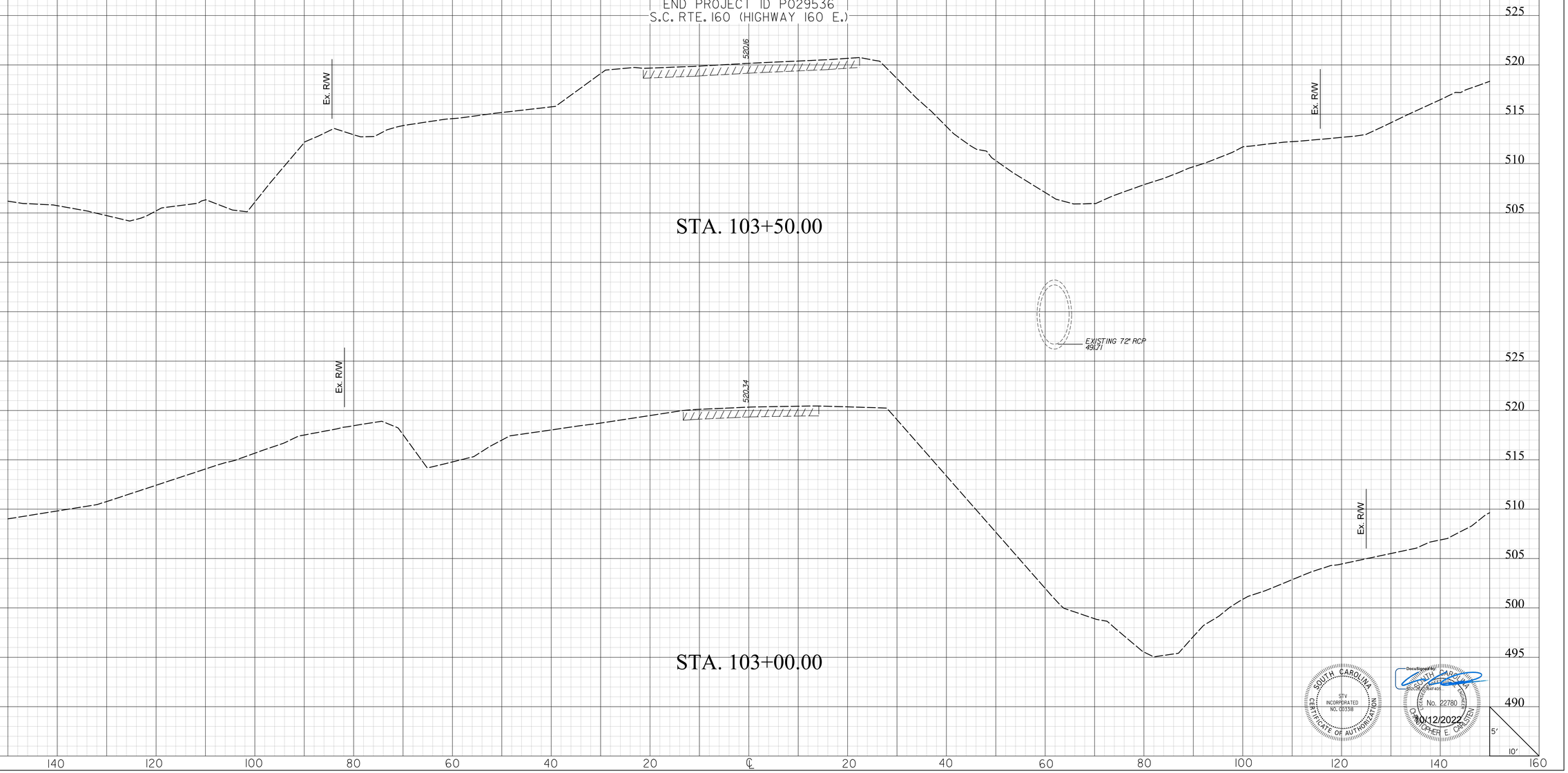
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X45

SC 160 (HIGHWAY 160 E)

SURVEY STA. 103+62.56
END PROJECT ID P029536
S.C. RTE. 160 (HIGHWAY 160 E.)

STA. 103+50.00



STA. 103+00.00

SOUTH CAROLINA
STV
INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL
ENGINEER
CHRISTOPHER E. CARSTEN
10/12/2022

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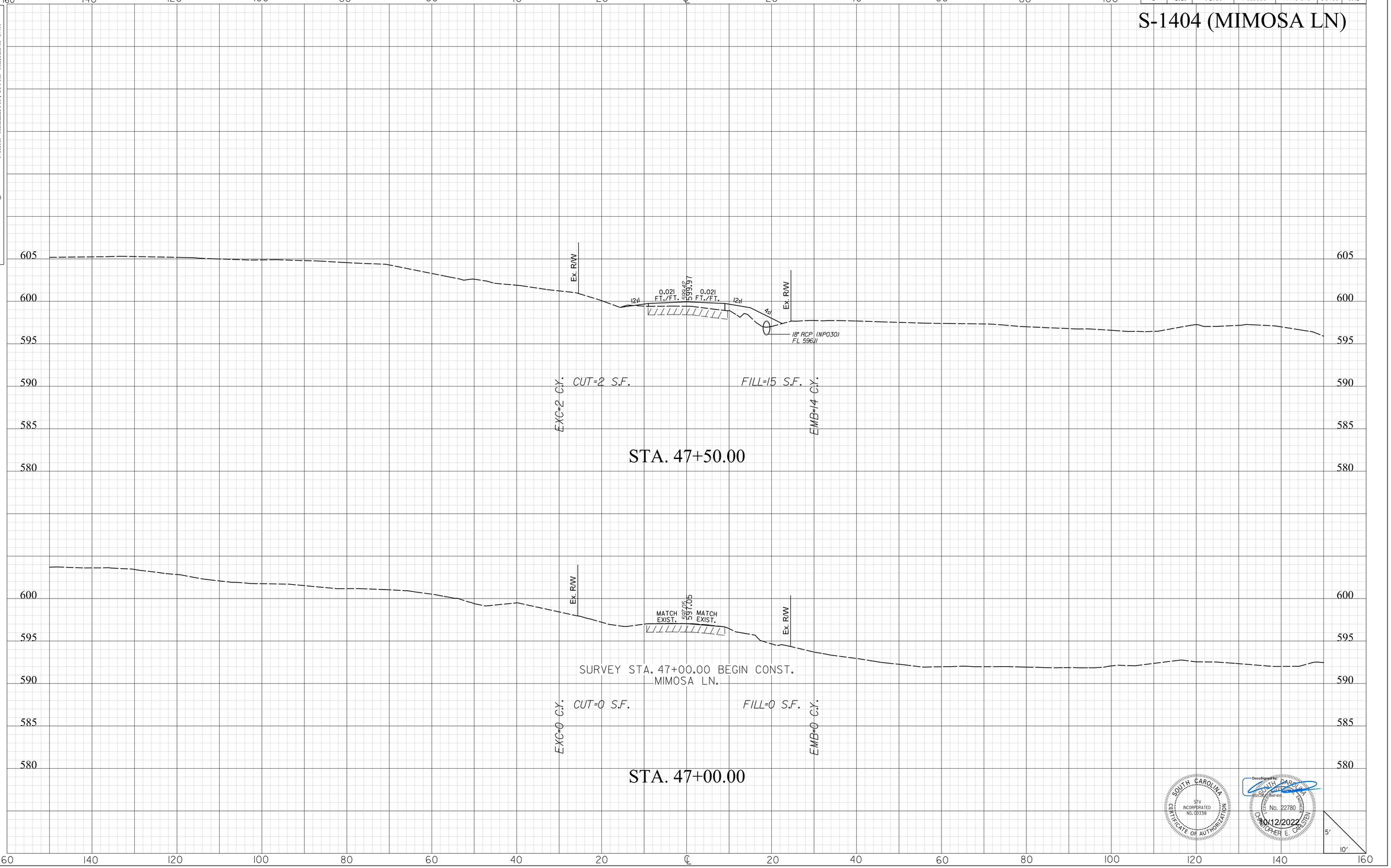
FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X46

S-1404 (MIMOSA LN)

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406



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10/12/2022

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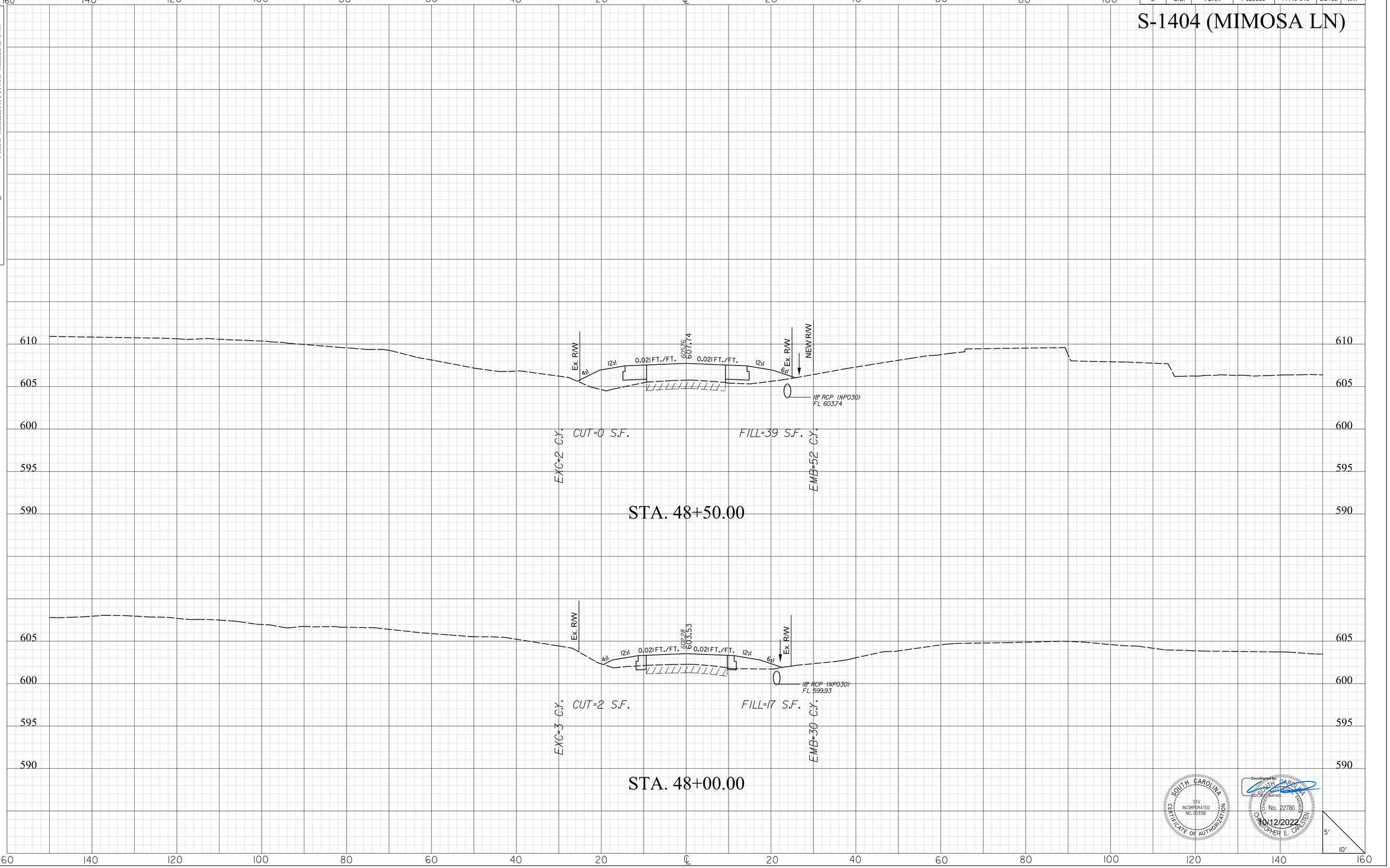
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X47

S-1404 (MIMOSA LN)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
REGISTERED
PROFESSIONAL ENGINEER
CHRISTOPHER E. CARLSON

10/12/2022

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10/12/2022

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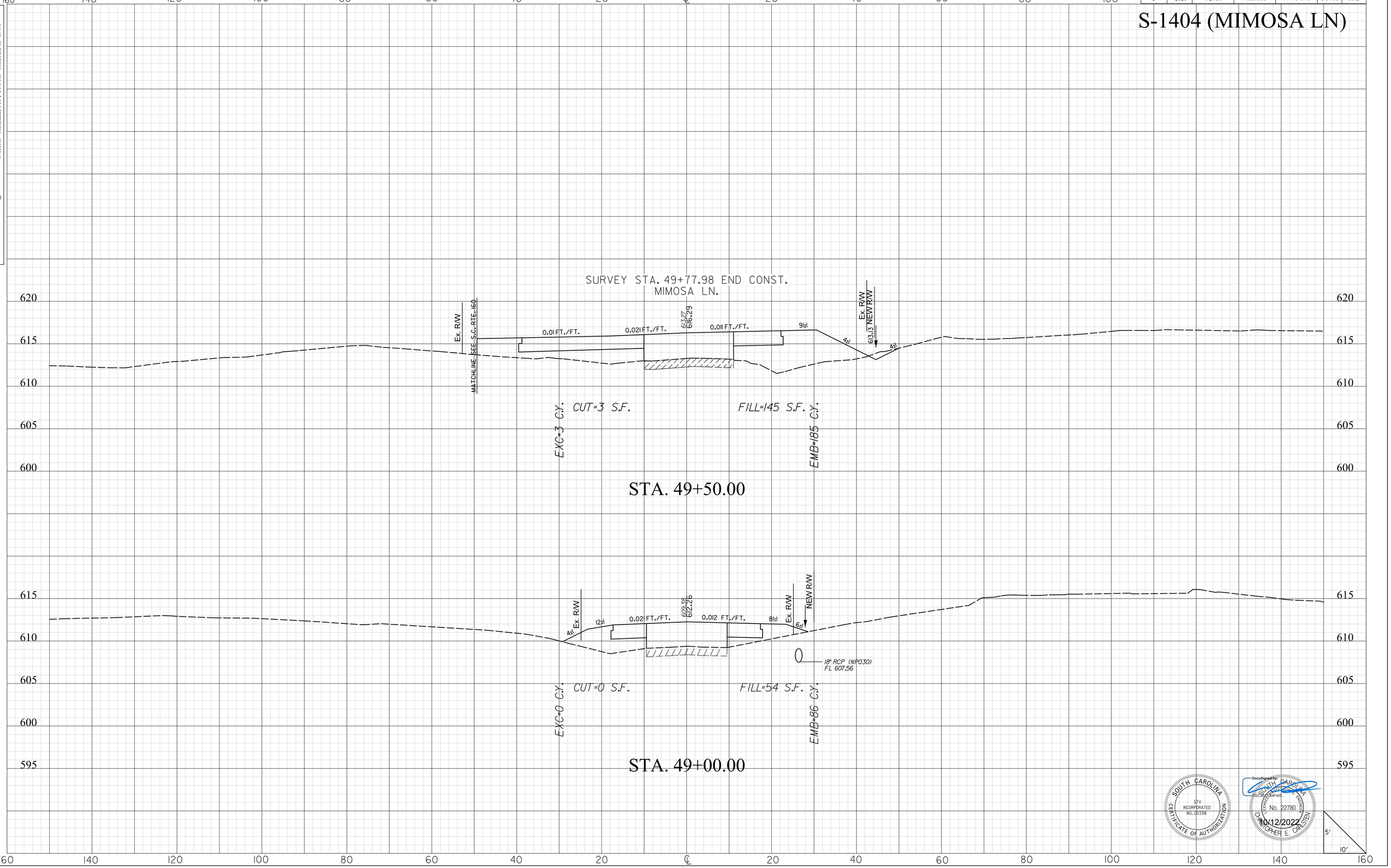
DocuSign Envelope ID: 663F017F-FBF8-4A64-9C76-E0065B4FD09F

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X48

S-1404 (MIMOSA LN)



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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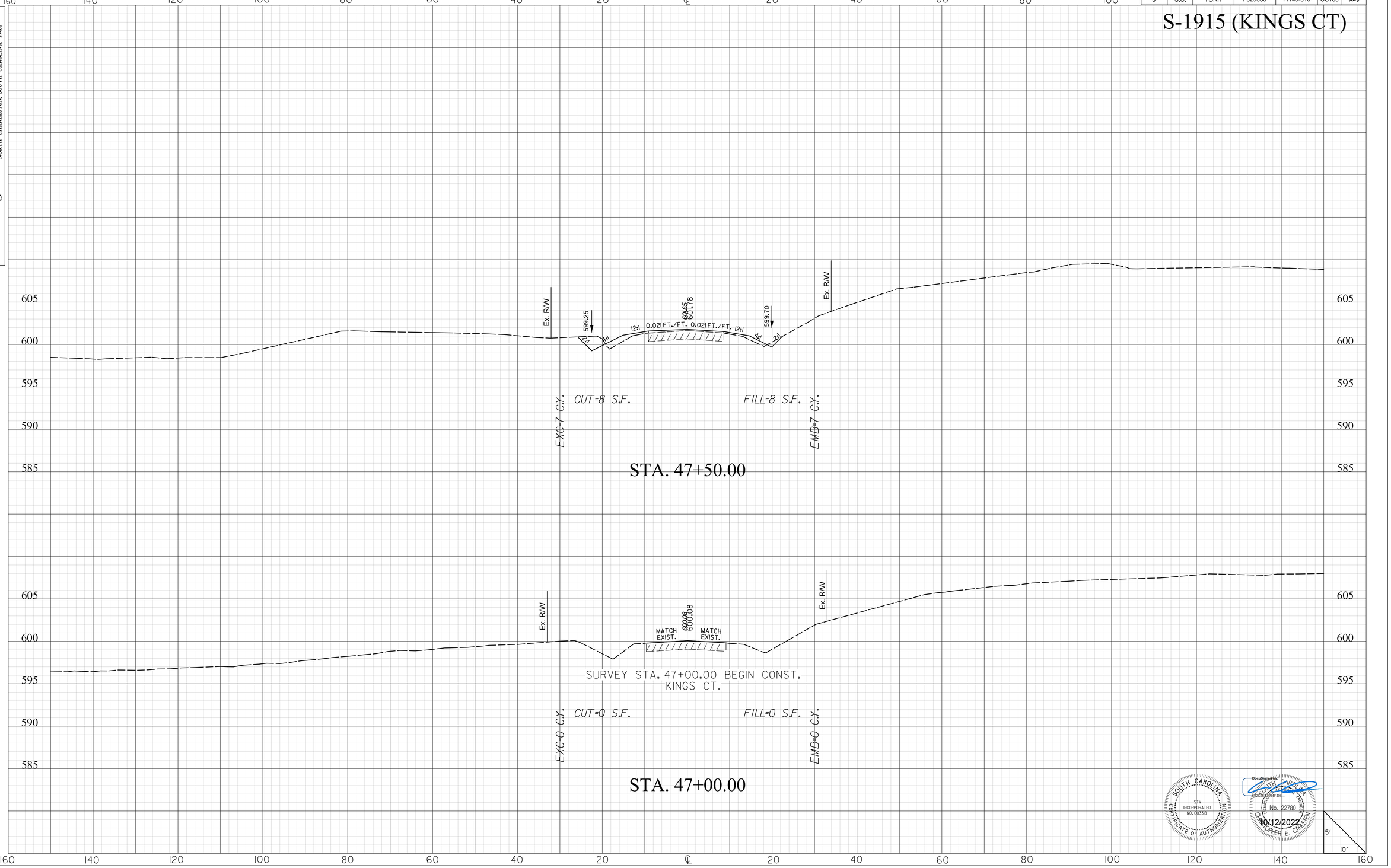
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X49

S-1915 (KINGS CT)



SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION STV INCORPORATED NO. C03138

SOUTH CAROLINA No. 22780 PROFESSIONAL ENGINEER CHRISTOPHER E. CARSTEN 10/12/2022

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10/12/2022

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STV 100 Years
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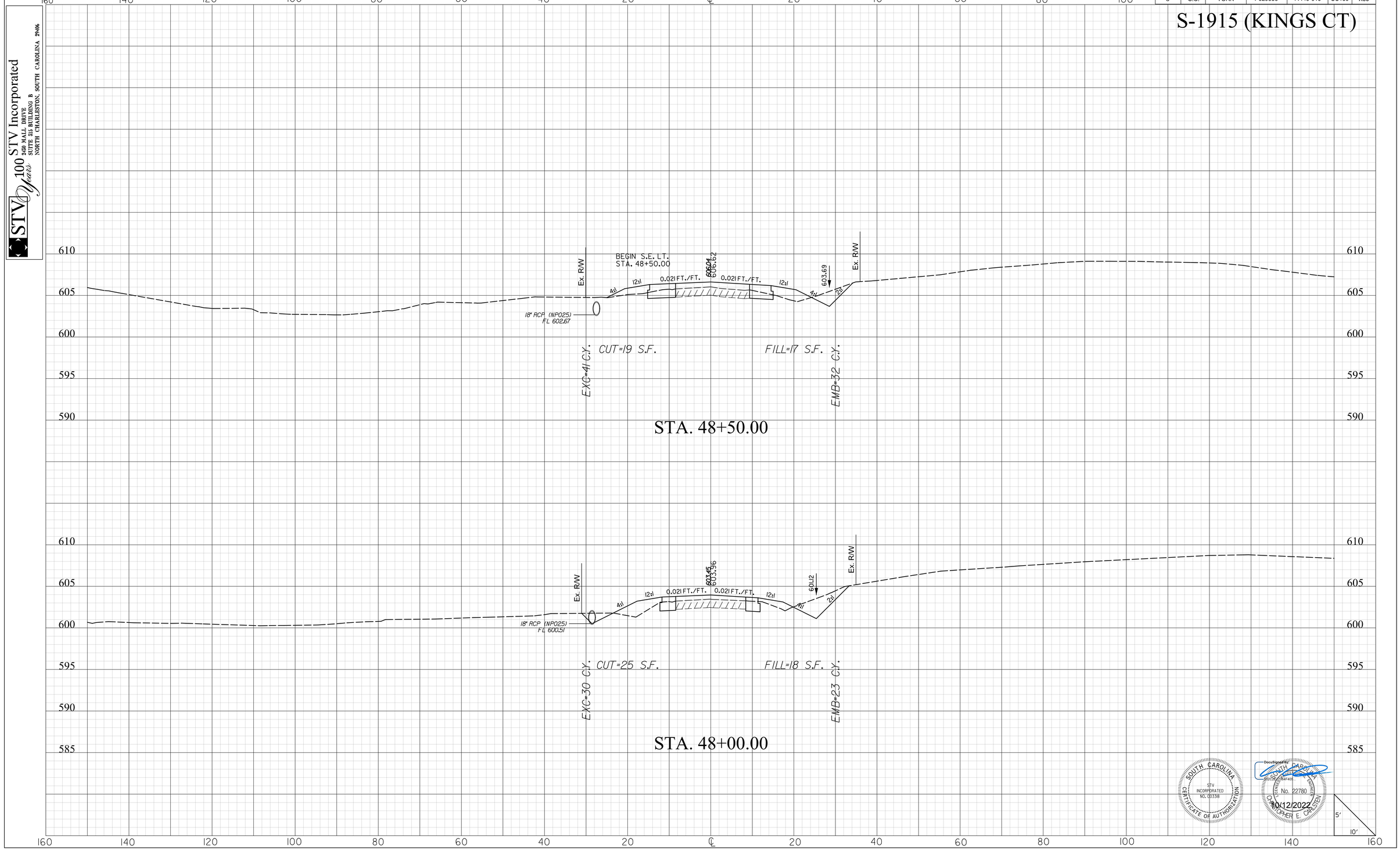
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X50

S-1915 (KINGS CT)



SOUTH CAROLINA
STV INCORPORATED
NO. C0338
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSON

10/12/2022

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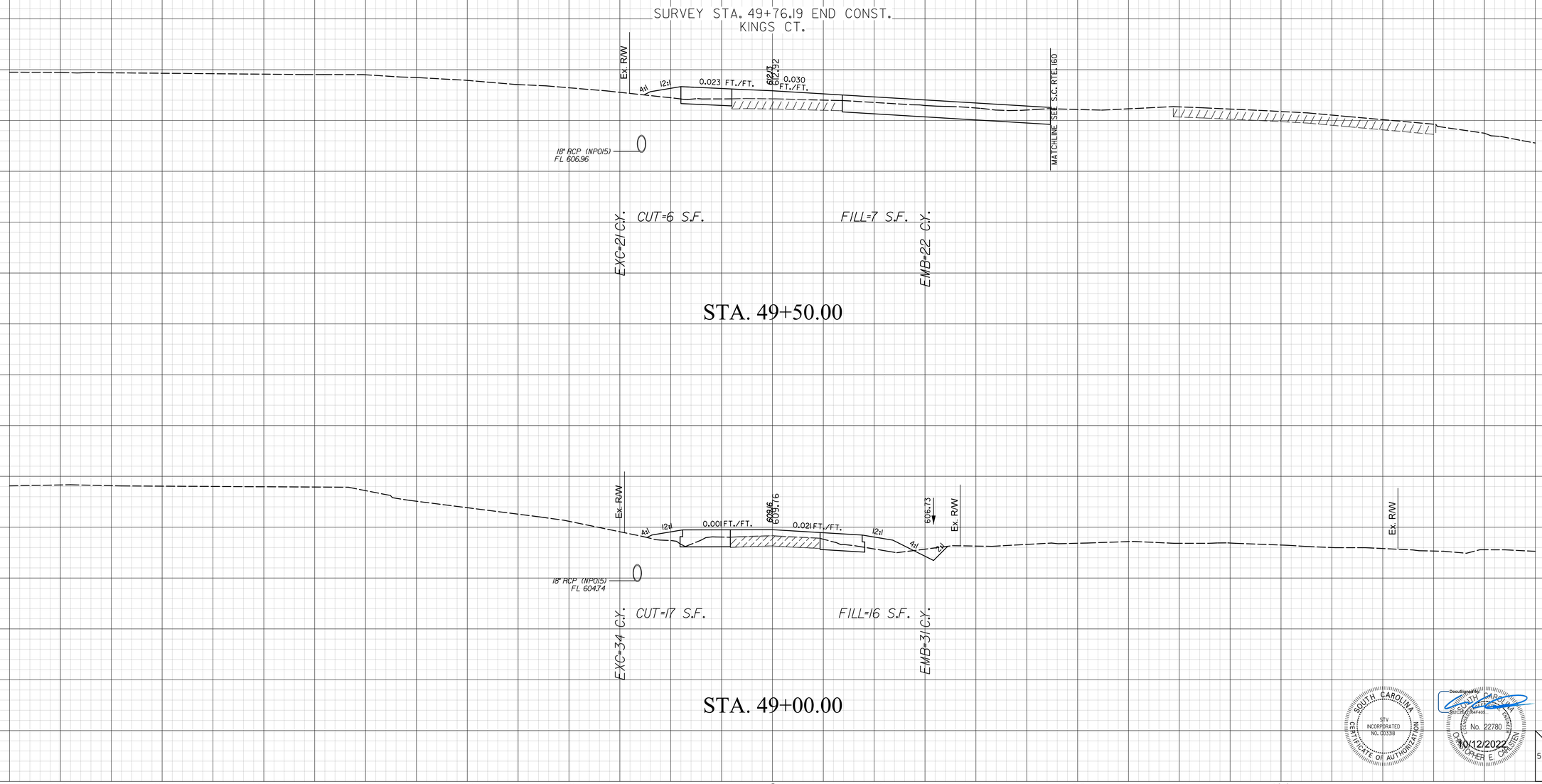
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X51

S-1915 (KINGS CT)

SURVEY STA. 49+76.19 END CONST.
KINGS CT.



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
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DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARTER
10/12/2022

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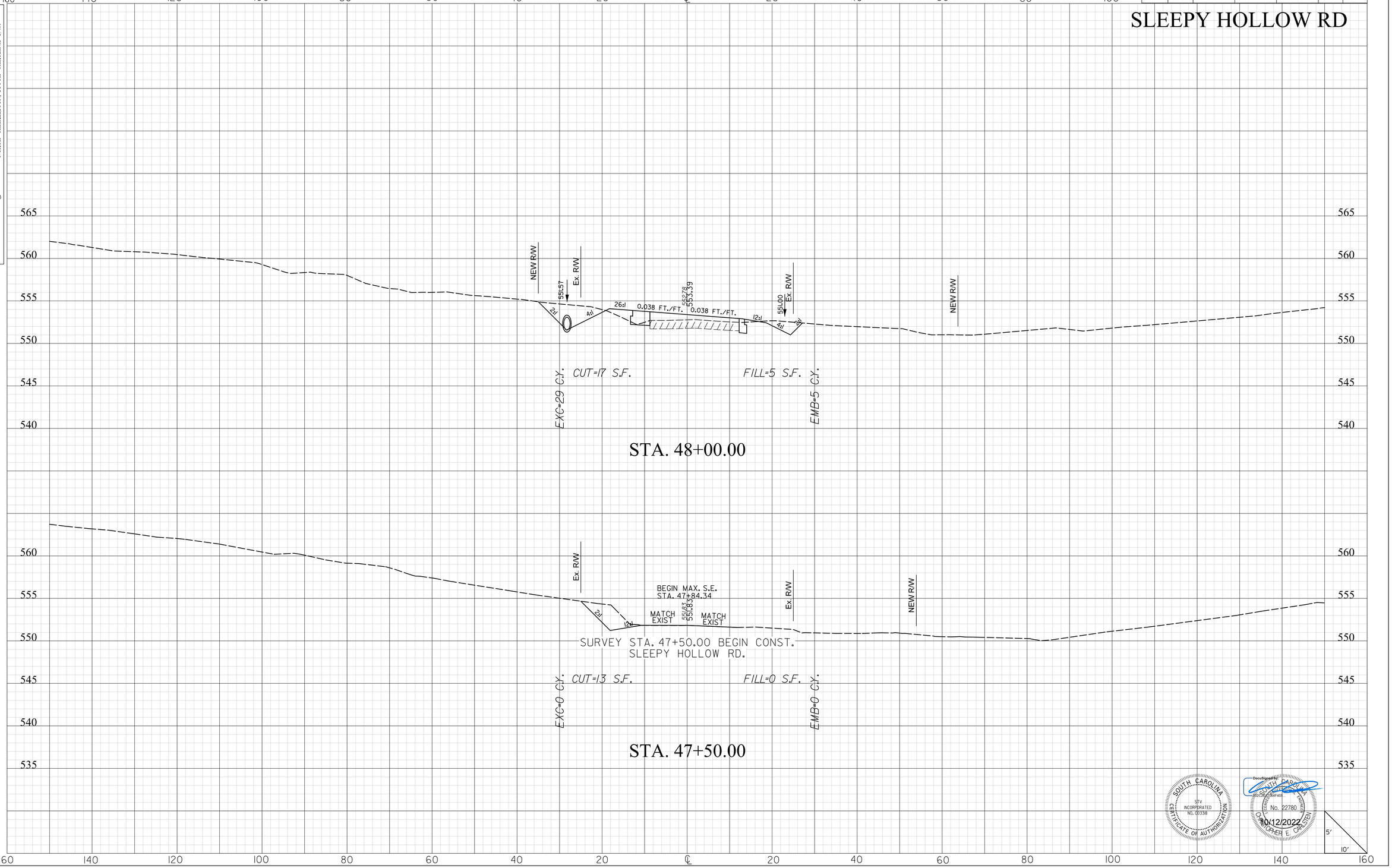
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X52

SLEEPY HOLLOW RD



SOUTH CAROLINA
STV INCORPORATED
NO. C03138
CERTIFICATE OF AUTHORIZATION

Document Signed by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARLSTEN
10/12/2022

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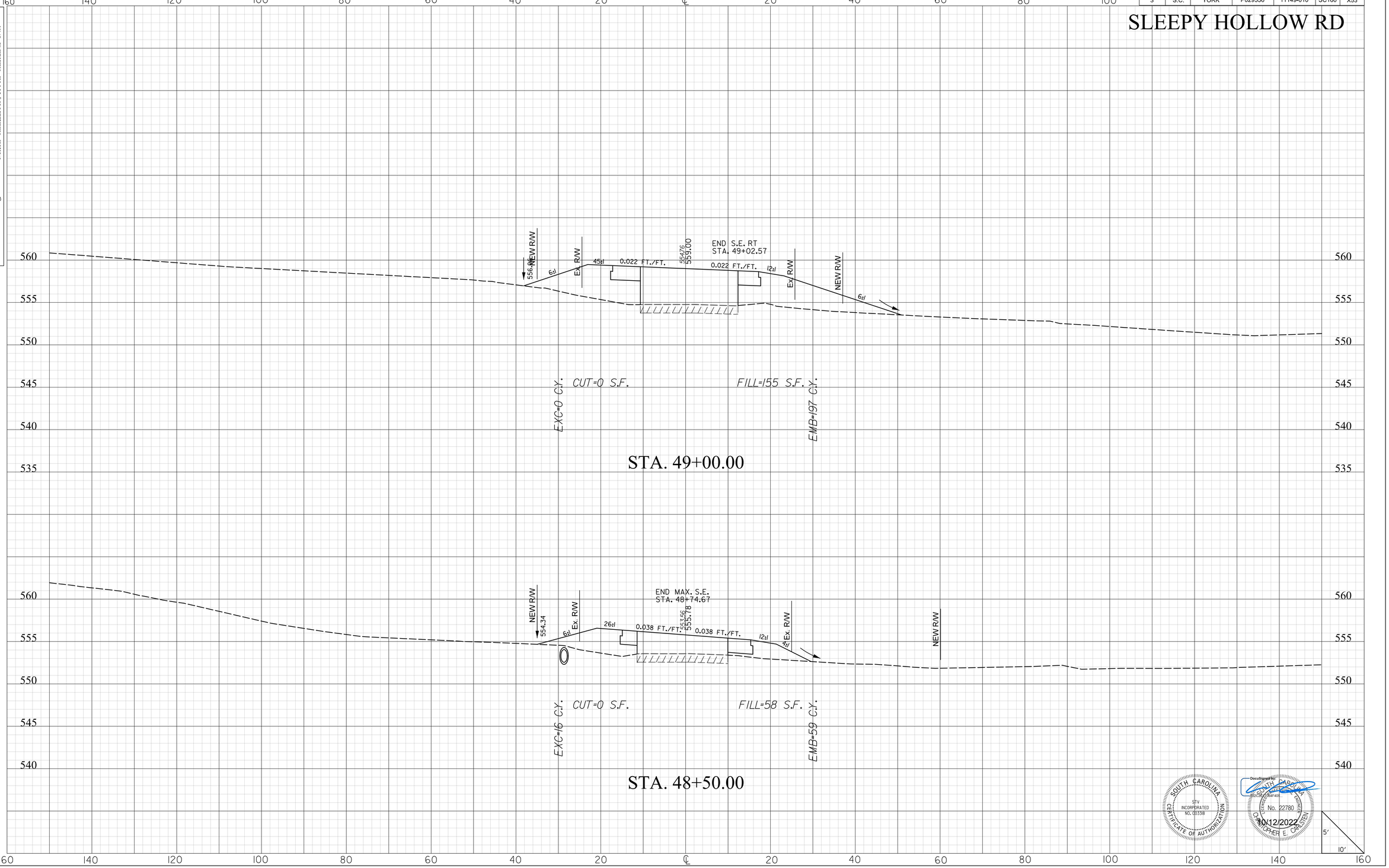
STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X53

SLEEPY HOLLOW RD



SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

DocuSigned by:
SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CASTEEL
10/12/2022

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FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X54

SLEEPY HOLLOW RD

STV 100 Years
STV Incorporated
2400 MALL DRIVE
SUITE 315 BUILDING B
NORTH CHARLESTON, SOUTH CAROLINA 29406

SURVEY STA. 49+70.79 END CONST.
SLEEPY HOLLOW RD.

559.59
7:1
7Q:1
0.017 FT./FT.
Ex. R/W
556.75
561.28
0.021FT./FT.
15:1
Ex. R/W
9:1

EXC=0 C.Y. CUT=0 S.F.

FILL=173 S.F. EMB=303 C.Y.

STA. 49+50.00

5'
10'

SOUTH CAROLINA
STV INCORPORATED
NO. C00338
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 22780
CHRISTOPHER E. CARSTENS
10/12/2022

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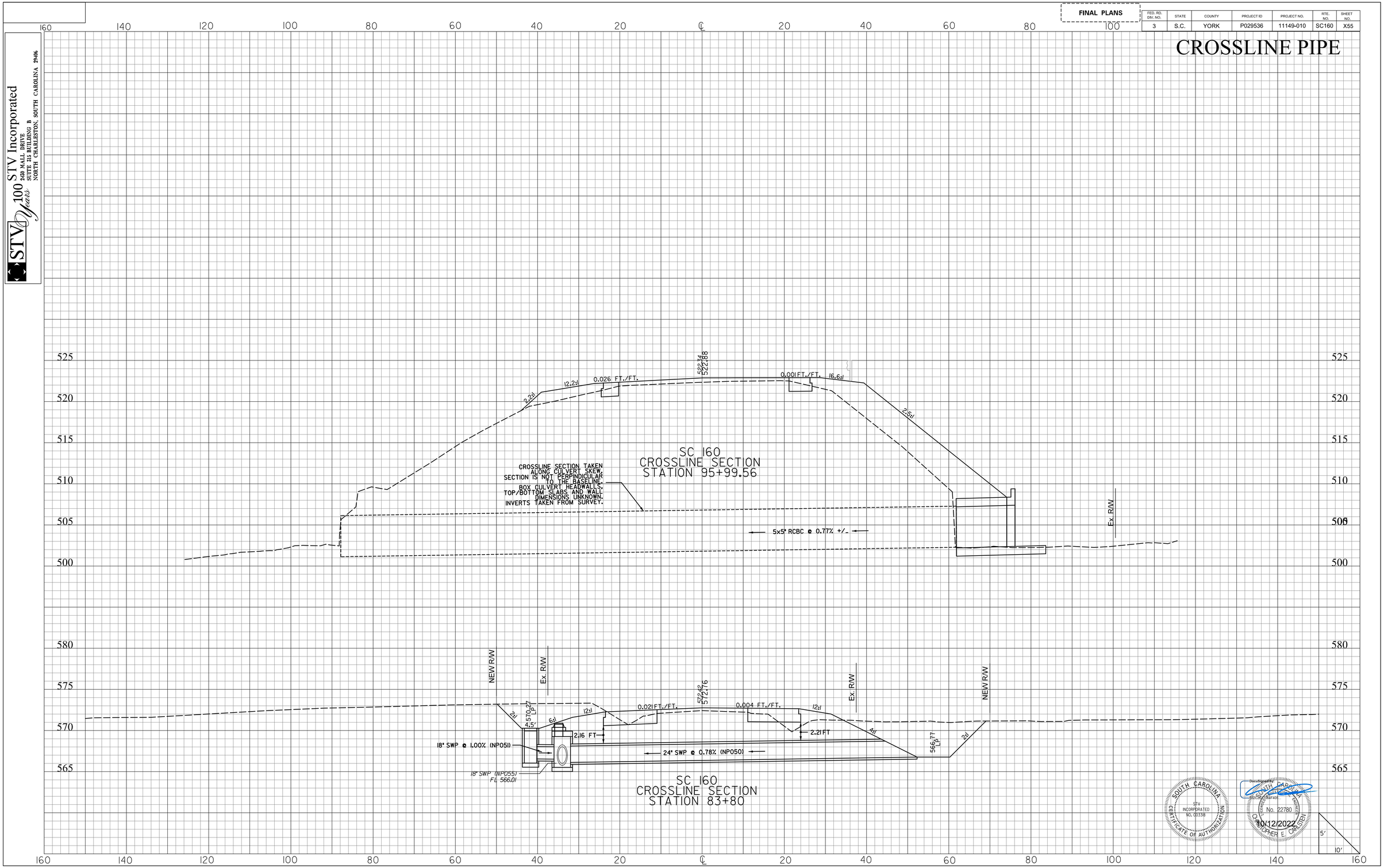
NORTH CHARLESTON, SOUTH CAROLINA 29406

FINAL PLANS

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	PROJECT NO.	RTE. NO.	SHEET NO.
3	S.C.	YORK	P029536	11149-010	SC160	X55

CROSSLINE PIPE



SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
STV INCORPORATED
NO. C03388

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SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 22780
CHRISTOPHER E. CARSTEN
10/12/2022

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