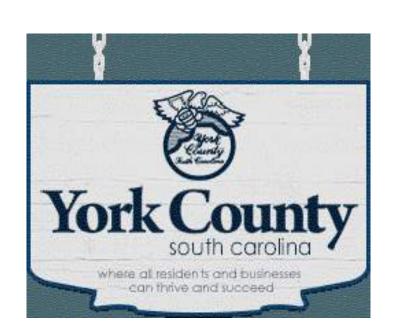
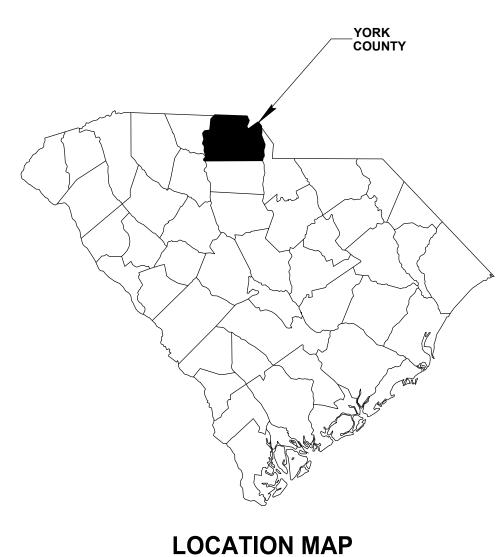
YORK COUNTY TRANSPORTATION SC-72 WIDENING FROM RAMBO RD WATER RELOCATIONS

JULY 2022









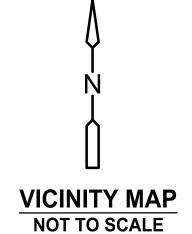




IMAGE OBTAINED FROM GOOGLE EARTH PRO NOVEMBER 2019

CITY OF ROCK HILL CONTACT: 757 SOUTH ANDERSON ROAD ROCK HILL, SC 29730 RICK CARTER 803-329-5500

UTILITY PROVIDERS:

WATER/SEWER/ELECTRIC

CITY OF ROCK HILL 757 SOUTH ANDERSON RD **ROCK HILL, SC 29730** 803-329-5500

UTILITY.DISPATCH@CITYOFROCKHILL.COM

SCOTT TURNER (WATER/SEWER) MARCELO MAURI (ELECTRIC)

YORK ELECTRIC COOPERATIVE, INC. **1385 ALEXANDER LOVE HIGHWAY YORK, SC 29745** 800-582-8810

TIM SCISM 803-984-2020 CONTACT:

CABLE/INTERNET/TELEPHONE

COMPORIUM COMMUNICATIONS

PO BOX 470 **ROCK HILL, SC 29730**

PAUL LINDSEY 803-326-6006 CONTACT: **STEVE DICKSON 803-326-6027**

AT&T

RON DUKES 803-606-6700

NATURAL GAS

YORK COUNTY NATURAL GAS AUTHORITY 979 WEST MAIN STREET

ROCK HILL, SC 29730

AMANDA GALLAGHER 803-323-5363 CONTACT:

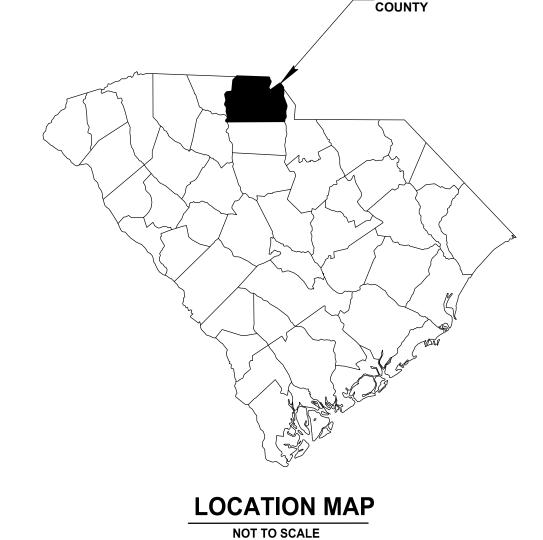
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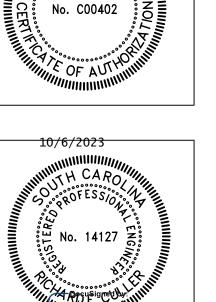
Project Manager: Mark Lester, PE

Drawn By: Checked By:

DATE: JULY 2022 SCALE: 1"=20'

YORK COUNTY DRAWING No.





REVISION				
DATE				
NO.				

1441 Main Street Suite 1000 Columbia, SC 29201 Tel: 803-758-4500 PROJECT NO. 120959-111726

GENERAL NOTES

- . CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF ROCK HILL AND THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- . EROSION AND SEDIMENT CONTROL SHALL BE PERFORMED PER SCDOT PERMITS, SCDHEC MS4/NOI PERMITTING, US ARMY CORPS OF ENGINEERS PERMITS, AND ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL REQUIREMENTS.
- 5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENCROACHMENT INTO OR DAMAGE TO DESIGNATED WETLANDS OR WATERS OF THE U.S. OR STATE. THE CONTRACTOR SHALL ESTABLISH TEMPORARY CONSTRUCTION FENCES AND EROSION CONTROL MEASURES TO PROTECT THESE AREAS. IF ANY WETLAND IS DETERMINED TO HAVE BEEN DAMAGED DURING THE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OR MITIGATION OR ANY OTHER REMEDIAL ACTION, COST, FINE, ETC. REQUIRED OR ASSIGNED BY THE CORPS OF ENGINEERS, SCDHEC, OR OTHER U.S., STATE, OR LOCAL JURISDICTION.
- 4. RESOLUTION OF CONFLICTS AND ADJUSTMENTS IN ELEVATION AND LOCATION OF PROPOSED UTILITIES SHALL BE AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL CALL THE PALMETTO UTILITIES PROTECTION SERVICE (PUPS) AT 811 OR 1-800-922-0983 NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST TWO (2) WORKING DAYS PRIOR TO WORK IN THE VICINITY OF THEIR FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION.
- 6. UNLESS NOTED OTHERWISE, THE ELEVATIONS OF EXISTING UTILITIES SHOWN IN THE PROFILES ARE NOT KNOWN. THE MAJORITY OF EXISTING UTILITIES SHOWN ARE FROM SUE DATA.
- 7. ALL UTILITIES MAY NOT BE SHOWN OR MAY BE LOCATED OTHER THAN SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING WORK, FOR ALL UTILITY COORDINATION, AND ALL TEMPORARY UTILITY RELOCATION COSTS.
- 8. EXISTING UTILITIES SHOWN ON THE PLANS ARE FROM SUBSURFACE UTILITY ENGINEERING (SUE) WITHIN THE DEFINED SUE LIMITS ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MARKING EXISTING UTILITIES INCLUDING LINES, VALVES, BOXES, DRAINAGE STRUCTURES, AND IRRIGATION LINES AND HEADS, WITHIN THE CONSTRUCTION LIMITS BEFORE ANY CONSTRUCTION ACTIVITY. ALL LINES AND STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. ANY BROKEN OR DAMAGED FACILITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 9. THE CONTRACTOR SHALL COORDINATE LOCATION OF THE UTILITIES WITH THE OWNERS OF RECORD FOR EACH UTILITY, INCLUDING BUT NOT LIMITED TO; WATER, SANITARY SEWER, GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, ADDITIONAL STORM DRAINAGE SYSTEMS, SERVICE LINES, AND ANY OTHER BURIED UTILITY OR BURIED CONDUIT SYSTEMS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION.
- 10. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND RELOCATION OF EXISTING UTILITIES WITH THEIR RESPECTIVE OWNER AND PROVIDE TEMPORARY SERVICES AS NEEDED UNTIL NEW SERVICES CAN BE INSTALLED, TESTED, AND ACCEPTED. THIS INCLUDES, BUT IS NOT LIMITED TO; ELECTRIC, TELEPHONE, GAS, POWER LINES, POWER POLES, POWER METERS, LIGHT POLES, AND CONTROLS, AT NO ADDITIONAL COST TO YORK COUNTY OR THE UTILITY OWNERS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING WATER AND SEWER SERVICE TO THE USERS ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL PROVIDE THE METHOD FOR MAINTAINING SERVICE TO CITY OF ROCK HILL FOR APPROVAL PRIOR TO THE START OF ANY CONSTRUCTION. THE PAYMENT FOR MAINTAINING WATER AND SEWER SERVICE SHALL BE INCLUDED IN THE PRICE FOR WATER AND SEWER PIPE. NO SEPARATE PAYMENT WILL BE MADE.
- 12. THE FLOW IN ALL SEWERS, DRAINS, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR. WHENEVER SUCH SEWERS, DRAINS, AND WATERCOURSES ARE DISTURBED OR DESTROYED DURING THE CONSTRUCTION OF THE WORK. THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE WITH THE SAME SIZE PIPE, OR AS DIRECTED BY THE ENGINEER AND OWNER OF THE FACILITY.
- 13. WHERE PLANS PROVIDE FOR A PROPOSED WATER OR SEWER LINE TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER, STORM DRAIN, OR UNDERGROUND UTILITY. THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED FACILITY. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING UTILITY TO BE CONNECTED TO, OR CROSSED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLANNED WATER OR SEWER LINE SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED LINE WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. PAYMENT FOR THESE OPERATIONS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- 14. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND IN THE FIELD OR ON THE DRAWINGS PRIOR TO BEGINNING OR CONTINUING WORK. ANY DEVIATION FROM THE CONSTRUCTION PLANS SHALL NEED TO BE APPROVED IN ADVANCE IN WRITING BY THE ENGINEER AND THE CITY OF ROCK HILL WITH NOTIFICATION TO YORK COUNTY.
- 15. NO ADJUSTMENTS IN ELEVATION OR LOCATION OF PROPOSED WATER AND SEWER FACILITIES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER. WHEN CIRCUMSTANCES COME TO THE ATTENTION OF THE CONTRACTOR WHICH LEAD HIM TO BELIEVE SUCH ADJUSTMENTS MAY BE NEEDED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE WITH ALL AVAILABLE INFORMATION.
- 16. ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- 17. THE CONTRACTOR AND ANY SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER, YORK COUNTY, AND THE CITY OF ROCK HILL SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR SAFETY ON THE JOB SITE. NOR SHALL THE ENGINEER, YORK COUNTY, AND THE CITY BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 18. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. PERMITS OBTAINED BY THE ENGINEER AND CITY OF ROCK HILL HAVE BEEN INCLUDED IN THE SPECIFICATION MANUAL.
- 19. A CLAIM OF DELAY CANNOT BE MADE BY THE CONTRACTOR DUE TO OTHER CONTRACTORS WORKING IN THE AREA.

- 20. THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATION AT OR NEAR SAID IRON PINS AND MONUMENTS. IF ANY PINS OR MONUMENTS ARE DISTURBED, DESTROYED, OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR AT THE COMPLETION OF THE PROJECT OR AT THE DIRECTION OF THE ENGINEER OR YORK COUNTY AT NO EXPENSE TO THE PROPERTY OWNERS OR COUNTY.
- 21. THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.
- 22. NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON PUBLIC STREETS: EXCEPTIONS MAY BE GRANTED BY YORK COUNTY AND SCDOT WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY AND SCDOT.
- 23. ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ITS ORIGINAL CONDITION OR CONNECTED TO THE SANITARY SEWER SYSTEM AS DIRECTED BY THE ENGINEER AND CITY OF ROCK HILL.
- 24. THE CONTRACTOR SHALL REPAIR ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT AT HIS EXPENSE. ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND YORK COUNTY.
- 25. ALL THE SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES THAT ARE TO REMAIN INTACT WHICH ARE DISTURBED OR DAMAGED DURING WORK UNDER THE CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR, UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE FOR THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE
- 26. EXCEPT WHERE CLEARING IS REQUIRED, THE CONTRACTOR SHALL LEAVE THE AREA DISTURBED BY CONSTRUCTION IN THE SAME OR BETTER CONDITION AS PRIOR TO COMMENCEMENT OF
- 27. WHEN NEW SANITARY SEWER OR WATER LINES ARE INSTALLED IN A TRENCH UNDER EXISTING PAVEMENT, THE PAVEMENT SHALL BE SAW-CUT PRIOR TO EXCAVATION AND THEN PATCHED ACCORDING TO THE STANDARD DETAILS. UNLESS THE PAVEMENT IS BEING REMOVED FOR THE ROADWAY RECONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR SAW CUTTING PAVEMENT.
- 28. CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR TREES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON CONSTRUCTION PLANS. LIMITS OF CONSTRUCTION VARY ALONG ALIGNMENT AS SHOWN ON EACH PLAN SHEET, BUT IN MOST CASES ARE DEFINED AS THE AREA BETWEEN THE EDGE OF PAVEMENT AND THE TEMPORARY CONSTRUCTION EASEMENT LINE.
- 29. IF TREE TRIMMING AND/OR REMOVAL IS REQUIRED, ALL TREE WORK MUST BE DONE BY A SOUTH CAROLINA CERTIFIED LICENSED ARBORIST, WITH A MINIMUM OF 5 YEARS OF CURRENT ACTIVE EXPERIENCE. WHEN TREE LIMBS ARE TRIMMED THEY SHALL BE EVENED UP ON ALL SIDES OF THE TREES.
- 30. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY DEWATERING UTILIZING ACCEPTABLE MEASURES AS APPROVED BY THE ENGINEER. ALL DEWATERING FLOWS ARE TO BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT INTO EXPOSED SOILS, STREAM BANKS, OR ANY SITE WHERE THE FLOW COULD CAUSE EROSION OR SILTATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- 32. EXCAVATED MATERIALS SHALL NOT BE PLACED ON THE ROADWAY SURFACES. EXCAVATED MATERIALS MUST BE PLACED BEHIND THE BACKSIDE OF THE EXCAVATED TRENCH (AWAY FROM THE ROAD). EXCAVATED MATERIALS SHALL NOT BE LEFT IN DITCHES; CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT ALL TIMES. WORK MUST BE SCHEDULED AND CONDUCTED IN 2. CONNECTION TO EXISTING WATER MAINS SHALL BE MADE IN THE PRESENCE OF CITY OF SUCH A WAY AS TO MINIMIZE SOIL EROSION AND CONTROL RUNOFF.
- 33. EXCESS SOIL THAT IS STOCKPILED MUST BE REMOVED WITHIN 15 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
- 34. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOODPLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE PERMANENTLY STABILIZED. THE ACQUISITION OF THIS SITE IS THE CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAYMENT WILL BE MADE.
- 35. NO MORE THAT 200 FEET OF TRENCH SHALL BE OPEN AT ANY GIVEN TIME. TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING SHALL OCCUR SO AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA. THE CONTRACTOR SHALL BACKFILL TRENCHES IMMEDIATELY. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK.
- 36. BEDDING AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SCDOT REQUIREMENTS AND THESE SPECIFICATIONS. EXCAVATED MATERIALS MEETING THESE REQUIREMENTS MAY BE STOCKPILED AND USED FOR BACKFILL. EXCAVATED MATERIALS THAT ARE NOT ACCEPTABLE SHALL BE REMOVED FROM THE PROJECT SITE.
- 37. COMPACTION UNDER PROPOSED SCDOT ROADWAYS SHALL BE PER SCDOT REQUIREMENTS AND THESE SPECIFICATIONS. YORK COUNTY AND THE CITY OF ROCK HILL HAVE THE RIGHT TO BRING IN AN INDEPENDENT CONSULTANT TO PERFORM COMPACTION TESTS AND VERIFY THAT REQUIRED COMPACTION IS BEING ACHIEVED.
- 38. FLOWABLE FILL SHALL BE USED WHERE REQUIRED ON THE PLANS, IN THE SPECIFICATION, AND BY THE PERMITS AND SHALL BE IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. COST OF FLOWABLE FILL WILL BE INCLUDED IN THE LINEAR FOOT PRICE FOR INSTALLED PIPE. NO SEPARATE PAYMENT WILL BE MADE.
- 39. GRANULAR BEDDING AND BACKFILL OR CONTROLLED DENSITY FILL SHALL BE INCLUDED FOR PAYMENT WITH THE PRICE OF PIPE, OR THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- 40. WHERE UNSUITABLE MATERIALS ARE ENCOUNTERED THEY SHALL BE EXCAVATED AND REMOVED AS DIRECTED BY THE ENGINEER. THE ENGINEER THEN MAY DIRECT INSTALLATION AND COMPACTION OF ADDITIONAL GRANULAR BEDDING IN ORDER TO RESTORE THE TRENCH BOTTOM TO THE REQUIRED ELEVATION. THIS EXTRA BEDDING, WHERE DIRECTED AND APPROVED, WILL BE PAID FOR IN 12 INCH UNITS PER LINEAR FOOT AT THE UNIT PRICE BID.

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- 41. RESTORATION OF LAWNS AND OTHER DISTURBED AREAS SHALL BE CAREFULLY GRADED TO REMOVE ALL STONES PRIOR TO THE PLACEMENT OF TOP SOIL. THE ENGINEER OR YORK COUNTY SHALL APPROVE ALL FINAL GRADING PRIOR TO ANY SEEDING AND MULCHING OPERATIONS. SEEDING AND MULCHING SHALL BE COMPLETED BY A HYDROSEEDING PROCESS THE CONTRACTOR SHALL BE RESPONSIBLE FOR GERMINATION OF THE SEED THROUGHOUT THE PROJECT AREA.
- 42. THE CONTRACTOR SHALL FURNISH AND USE CALCIUM CHLORIDE FOR DUST CONTROL IF DIRECTED BY THE ENGINEER OR YORK COUNTY.
- 43. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR HIS OR HER REVIEW, 5 COPIES OF SHOP DRAWINGS FOR ALL MATERIALS, STRUCTURES, MIX DESIGNS, GRADATION CERTIFICATIONS, AND EQUIPMENT BEFORE ANY OF THE ABOVE ITEMS ARE ORDERED. CITY OF ROCK HILL BEARS NO RESPONSIBILITY TO ACCEPT ANY OF THE ABOVE ITEMS WITHOUT A COMPLETE REVIEW OF THE SHOP AND ACCEPTANCE OF THE SHOP DRAWINGS.
- 44. FOR ANY EXISTING WATER LINES, SANITARY SEWERS, AND MANHOLES THAT MUST BE REMOVED IN ORDER TO INSTALL THE NEW PIPE IN THE SAME TRENCH, THE COST OF REMOVAL SHALL BE INCLUDED FOR PAYMENT WITH THE EXCAVATION FOR THE NEW SEWER OR WATER LINE. NO SEPARATE PAYMENT SHALL BE MADE.
- 45. MAINTENANCE OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, EXCEPT WHEN WORK IS ACTIVELY IN PROGRESS AND REQUIRES THE TEMPORARY CLOSURE OF A SINGLE LANE. DURING TIMES OF LANE CLOSURE TWO-WAY TRAFFIC WILL BE MAINTAINED BY USE OF FLAG PERSONS, TEMPORARY TRAFFIC SIGNALS, OR OTHER TEMPORARY TRAFFIC CONTROL
- 46. PERMANENT SIGNAGE REQUIRED BY SCDOT TO ALERT TRAFFIC TO THE PRESENCE OF CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR. THIS SIGNAGE IS TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THIS CONTRACT.
- 47. THE CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- 48. CONTRACTOR TO REPAIR ALL DRIVEWAYS AFTER INSTALLATION. SEE STANDARD DETAILS.
- 49. CONTRACTOR IS RESPONSIBLE FOR STABILIZING AND RESTORING THE PROJECT SITE WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY MS4 OR SCDHEC. SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION FOR FINAL GRASSING SCHEDULE.
- 50. CONTRACTOR SHALL COORDINATE WORK SCHEDULES WITH ALL OTHER UTILITIES AND/OR THEIR CONTRACTORS AND THE SCDOT CONTRACTOR.
- 51. UNLESS SPECIFICALLY SHOWN ON THE CONSTRUCTION PLANS, NO MANHOLES, VALVES, OR AIR RELEASE VALVES WILL BE LOCATED IN PAVEMENT OF ANY KIND; ROADWAY, INTERSECTIONS, SIDEWALKS, DRIVEWAYS, ETC.
- 52. COST OF FITTINGS, TRENCH WIDTH AND DEPTH, BACKFILL, BY-PASS PUMPING, ETC., WILL BE INCLUDED IN THE LINEAR FOOT PRICE FOR INSTALLED PIPE. NO SEPARATE PAYMENT WILL BE MADE.
- 53. CONTRACTOR IS RESPONSIBLE FOR TRENCH STABILIZATION, FOUNDATION STABILIZATION, AND DEWATERING (IF REQUIRED). NO SEPARATE PAYMENT WILL BE MADE OTHER THAN UNIT PRICE FOR ADDITIONAL FOUNDATION.

WATER NOTES

- WATER INSTALLATIONS SHALL BE IN ACCORDANCE WITH THESE CONSTRUCTION PLANS AND THE MATERIAL AND CONSTRUCTION SPECIFICATIONS, CITY OF ROCK HILL REQUIREMENTS, "TEN STATES STANDARDS", AND SCDHEC REGULATIONS, TOGETHER WITH THE MOST CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF SCDOT INCLUDING STANDARD DRAWINGS AND ALL SUPPLEMENTS THERETO. THESE SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS OTHERWISE SHOWN OR CALLED OUT ON THESE DRAWINGS OR IN THE SPECIFICATIONS.
- ROCK HILL INSPECTOR WITH AT LEAST 72 HOURS ADVANCE NOTICE.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48" UNLESS OTHERWISE NOTED ON
- 4. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SEWER SERVICE LATERALS WHICH ARE STILL IN SERVICE.
- 5. THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO WHICH MAY PERMIT THE PASSAGE OF ANY SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO POTABLE WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT SEPARATION THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH TO ONE SIDE OF THE SANITARY SEWER AT AN ELEVATION SUCH THAT THE BOTTOM OF THE WATER MAIN IS NOT LESS THAN 18-INCHES ABOVE THE CROWN OF THE SANITARY SEWER.
- WATER MAINS CROSSING SANITARY SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE OUTSIDE OF THE POTABLE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHETHER THE POTABLE WATER MAIN IS ABOVE OR BELOW THE SEWER, BUT PREFERABLY ABOVE THE SEWER. WHERE A NEW SEWER LINE CROSSES A NEW POTABLE WATER MAIN, A FULL LENGTH OF PIPE SHALL BE USED FOR BOTH THE SEWER LINE AND POTABLE WATER MAIN AND THE CROSSING SHALL BE ARRANGED SO THAT THE JOINTS OF EACH LINE SHALL BE AS FAR AS POSSIBLE FROM THE POINT OF CROSSING AND EACH OTHER. WHERE A POTABLE WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER LINE TO PREVENT DAMAGE TO THE POTABLE WATER MAIN WHILE MAINTAINING LINE AND GRADE.
- POTABLE WATER LINES SHALL NOT BE LAID LESS THAN TWENTY-FIVE (25) FEET HORIZONTALLY FROM ANY PORTION OF A WASTEWATER TILE-FIELD OR SPRAY-FIELD, OR SHALL BE OTHERWISE PROTECTED BY AN ACCEPTABLE METHOD APPROVED IN ADVANCE BY CITY OF ROCK HILL AND THE ENGINEER.
- 9. FIRE HYDRANTS, WATER VALVES, AND OTHER WATER SYMBOLS MAY BE SHOWN IN LARGE SCALE FOR CLARITY. WATER VALVES, VALVE BOXES, AND COVERS SHALL NOT BE LOCATED WITHIN THE CURB & GUTTER OR PAVED AREAS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 10. DEFLECT WATER LINES, WHEN POSSIBLE, IN LIEU OF FITTINGS IN ACCORDANCE WITH THE PIPE MANUFACTURER'S SPECIFICATIONS.
- 11. ALL FITTINGS, VALVES, AND HYDRANTS SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS PER CITY OF ROCK HILL REQUIREMENTS, MATERIAL AND CONSTRUCTION SPECIFICATIONS, AND THE DETAILS INCLUDED IN THESE CONSTRUCTION DRAWINGS.

- 12. WHERE EXISTING WATER MAINS ARE TAPPED, OR TEES ARE CUT-IN, THE MINIMUM REQUIRED LENGTH OF THRUST RESTRAINT SHALL BE PROVIDED ON THE EXISTING LINE BY LOCATING AND EXCAVATING EXISTING JOINTS AND INSTALLING BELL CLAMPS ON THOSE JOINTS FOR THE DISTANCE STATED ON THE PLANS IN EACH LOCATION. THIS COST SHALL BE INCLUDED IN THE PRICE FOR THE TAP OR CUT-IN; NO SEPARATE PAYMENT WILL BE MADE.
- 13. EXISTING WATER SERVICE METERS SHALL BE RELOCATED BY THE CONTRACTOR TO JUST INSIDE NEW RIGHT-OF-WAY AND TAPPED OVER TO THE NEW WATER MAIN AFTER CITY OF ROCK HILL HAS RECEIVED APPROVAL FROM SCDHEC TO PLACE THE NEW MAIN IN SERVICE. CONTRACTOR SHALL COORDINATE THESE METER RELOCATIONS WITH CITY AT LEAST 72 HOURS IN ADVANCE.
- 14. WATER SERVICE AND SEWER SERVICE FOR EACH CUSTOMER SHALL MAINTAIN A MINIMUM 5' OF SEPARATION.
- 15. ALL WATER SERVICES WILL BE NEW MATERIALS FROM THE MAIN TO THE METER BOX.
- 16. CONTRACTOR SHALL SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS WITH CITY OF ROCK HILL AT LEAST 72 HOURS IN ADVANCE. A PRESSURE TEST WILL BE SCHEDULED AND CONDUCTED BY THE CONTRACTOR AND WITNESSED BY THE ENGINEER AND CITY OF ROCK HILL. ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF THE AMOUNT OF LEAKAGE. AFTER PASSING THE PRESSURE/LEAKAGE TEST, THE CONTRACTOR SHALL TAKE THE REQUIRED SAMPLES FOR BACTERIOLOGICAL TESTING.
- 17. CONTRACTOR SHALL MAINTAIN A COMPLETE RED-LINED SET OF CONSTRUCTION DRAWINGS ON THE SITE AT ALL TIMES. AT THE END OF CONSTRUCTION THE SET OF RED-LINED CONSTRUCTION DRAWINGS SHALL BE GIVEN TO THE ENGINEER FOR USE IN PRODUCING RECORD DRAWINGS.
- 18. TEST PRESSURE AND LEAKAGE: THE CONTRACTOR SHALL GIVE THE CITY INSPECTOR AND ENGINEER A 72-HOUR NOTICE BEFORE STARTING TEST. ON COMPLETION OF THE LINE OR SECTIONS OF THE LINES, CONNECTIONS AND APPURTENANCES, THE LINE SHALL BE FILLED AND HYDROSTATICALLY TESTED. ALL AIR SHALL BE RELEASED FROM THE SYSTEM PRIOR TO TESTING. TEST PRESSURE SHALL BE 1.5 TIMES THE MAXIMUM WORKING PRESSURE IN THE SYSTEM (134 PSIG) OR 201 PSIG MINIMUM AS MEASURED AT THE LOWEST POINT OF ELEVATION OF THE SECTION OF LINE BEING TESTED. TESTING TIME SHALL BE A MINIMUM TWO (2) HOURS. LEAKAGE SHALL NOT EXCEED THE ALLOWABLE LEAKAGE SHOWN IN AWWA C600 OR CALCULATED BY THE FORMULA:

FOR DUCTILE IRON PIPE: $G = \{S*D*(P^0.5)\} / 148,000$ L=ALLOWABLE LEAKAGE, IN GALLONS PER HOUR S=LENGTH OF PIPE TESTED, IN FEET D=NOMINAL DIAMETER OF PIPE, IN INCHES P=AVERAGE TEST PRESSURE (PSIG) = 201 PSIG

- 19. EACH FITTING SHALL BE INSTALLED WITH A 1.5" PVC PIPE LOCATED ON TOP OF IT, EXTENDING ABOVE GRADE TO ALLOW ITS ELEVATION TO BE ACCURATELY SURVEYED. ALL FITTINGS SHALL BE SURVEYED BY THE CONTRACTOR'S SURVEYOR AFTER CONSTRUCTION AND THAT SURVEY INFORMATION SHALL BE PROVIDED TO THE ENGINEER WITH THE RED-LINED CONSTRUCTION DRAWINGS FOR USE IN PRODUCING THE RECORD DRAWINGS.
- 20. WATER MAIN PIPE SHALL BE DUCTILE IRON CL350 AS SPECIFIED IN THE MATERIAL AND CONSTRUCTION SPECIFICATIONS.
- 21. WATER MAIN FITTINGS SHALL BE DUCTILE IRON FITTINGS (FULL-SIZE OR COMPACT) AS SPECIFIED IN THE MATERIAL AND CONSTRUCTION SPECIFICATIONS.
- 22. ALL VALVES AND FIRE HYDRANTS SHALL BE "OPEN LEFT" (COUNTERCLOCKWISE).
- 23. VALVE BOXES INSTALLED OVER ALL VALVES SHALL BE FULLY EXTENDABLE.
- 24. COST OF TRENCH WIDTH AND DEPTH, BACKFILL, ETC., WILL BE INCLUDED IN THE LINEAR FOOT PRICE FOR INSTALLED PIPE. NO SEPARATE PAYMENT WILL BE MADE.
- 25. HYDRANTS SHALL BE INSTALLED PER THE STANDARD CITY DETAIL BASED ON THE BURY DEPTH OF THE WATER MAIN UNLESS THAT DEPTH EXCEEDS 8 FEET; IN WHICH CASE FITTINGS SHALL BE UTILIZED ON THE HYDRANT LEAD FROM THE MAIN TO MAINTAIN A HYDRANT VALVE DEPTH OF NO MORE THAN 8 FEET.
- 26. EXISTING STORM DRAIN PIPES SHOWN ON PLANS ARE FROM INFORMATION PROVIDED BY SCDOT. THE CITY OF ROCK HILL AND ITS AGENTS DO NOT WARRANT THAT THEY ARE NECESSARILY COMPLETE OR CORRECT. WHERE EXISTING STORM DRAIN PIPES TO BE CROSSED BY NEW WATER AND SEWER MUST REMAIN IN SERVICE, CONTRACTOR IS RESPONSIBLE FOR LOCATING THESE PIPES, WHETHER SHOWN ON PLANS OR NOT, AND INVESTIGATING THE ELEVATION OF THE PIPES NOT LESS THAN 300 LF IN ADVANCE OF PIPE LAYING TO DETERMINE WHETHER GRADE ADJUSTMENT TO NEW WATER MAIN MAY BE NECESSARY. SHOULD CONTRACTOR DETERMINE THAT GRADE ADJUSTMENT IS NEEDED IN EXCESS OF 12 INCHES FROM THAT SHOWN ON WATER MAIN PROFILE AND/OR IF A NEW HIGH POINT IS CREATED IN THE MAIN AS A RESULT OF THIS ADJUSTMENT, CONTRACTOR SHALL NOTIFY THE CITY OF ROCK HILL AND ENGINEER BEFORE PROCEEDING. IF CONTRACTOR DETERMINES THERE IS A CONFLICT WITH PROPOSED GRAVITY SEWER; CONTRACTOR SHALL NOTIFY THE CITY AND ENGINEER IMMEDIATELY.
- 27. ALL EXISTING WATER MAINS REMOVED FROM SERVICE SHALL BE ABANDONED IN PLACE BY FILLING WITH FLOWABLE GROUT. WATER MAIN ABANDONMENT FOR EACH NOMINAL DIAMETER SHALL BE PAID FOR PER LINEAR FOOT MEASURED ALONG THE CENTERLINE OF THE PIPELINE AT THE UNIT PRICE BID. ALL COSTS ASSOCIATED WITH DEMOLISHING APPURTENANCES SHALL BE INCLUDED IN THE PER FOOT PRICE BID, NO ADDITIONAL PAYMENT SHALL BE MADE. FIRE HYDRANT ASSEMBLIES ABANDONED SHALL BE REMOVED AND DELIVERED TO THE LOCATION PROVIDED BY THE CITY.
- 28. CONTRACTOR SHALL RECORD THE HORIZONTAL LOCATIONS OF ABANDONED IN PLACE WATER MAINS ON THE RED-LINED PLANS FOR INCLUSION IN THE RECORD DRAWINGS. ABANDONED IN PLACE WATER SERVICE LINES SHALL ALSO BE RECORDED ON THE RED-LINED PLANS BY MARKING THE LOCATION OF THE REMOVED METER BOX.
- 29. RESTRAINED JOINT LENGTHS PROVIDED ON PLANS ARE CALCULATED MINIMUMS PER DIPRA STANDARDS AND ACCORDING TO AWWA M41 CALCULATIONS ASSUME SILT 1 TYPE SOIL, TYPE 3 BEDDING CONDITION, OPERATING PRESSURE OF 135 PSI, AND SAFETY FACTOR OF 1.5.
- 30. REQUIRED RESTRAINED JOINT LENGTHS SHALL BE ROUNDED UP TO THE NEAREST WHOLE JOINT OF PIPE AT NO ADDITIONAL COST TO THE OWNER.
- 31. RESTRAINED JOINTS SHALL BE THE PIPE MANUFACTURER'S DESIGN APPROVED BY THE ENGINEER, EBAA MEGALUG OR APPROVED EQUAL, OR APPROVED GRIPPER GASKETS. RESTRAINED JOINT GASKETS SHALL BE COLORED NON—BLACK AND THE COLOR SHALL BE CONSISTENT THROUGHOUT THE ENTIRE CROSS—SECTION OF THE GASKET, NOT ATTAINED BY SURFACE COATING. THE COLOR SHALL BE INHERENT WITHIN THE RUBBER. GASKET SHALL MEET APPLICABLE REQUIREMENTS OF AWWA/ANSI C111/A21.11 AND SHALL BE ANSI/NSF STANDARD 61 CERTIFIED.

쁜 No. 14127 본 CARO No. C00402

10/6/2023

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PROJECT NO. 120959-111726 FILE NAME: GOO1NOTE.DWG SHEET NO.

G-1

CDM K. STUHN A. KEOUGH HEET CHK'D BY:____ J. EPTING 1441 Main Street, Suite 1000 Columbia, South Carolina 29201 Tel: (803) 758-4500 JUNE 2022

SC-72 WIDENING FROM RAMBO ROAD

YORK COUNTY TRANSPORTATION

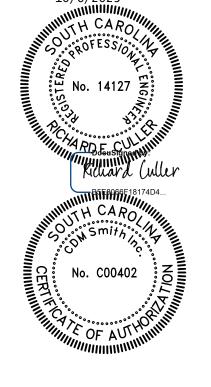
GENERAL & WATER NOTES

SEDIMENT & EROSION CONTROL NOTES

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INSTALLED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 8 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT—LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- 20. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO PERFORMING EXCAVATION IN ANY AREA, MAINTAINED DURING WORK, AND REMOVED WHEN WORK IS COMPLETED. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE SCDHEC STORMWATER BMP HANDBOOK AND THE APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT.
- 21. AFTER CONSTRUCTION AREA IS STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES. DISPOSE OF ALL ACCUMULATED SEDIMENT.
- 22. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT OR SEDIMENT LADEN WATER FROM ENTERING CATCH BASINS, DRAINAGE SYSTEMS, OR WATER BODIES.

CONSTRUCTION SEQUENCE NOTES

- 1. RECEIVE NPDES COVERAGE FROM DHEC.
- 2. HOLD PRE-CONSTRUCTION MEETING AT LEAST 1 WEEK PRIOR TO STARTING LAND DISTURBING ACTIVITIES.
- 3. NOTIFY CITY OF ROCK HILL MIN. 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
- 4. INSTALLATION OF CONSTRUCTION ENTRANCES.
- 5. CLEAR AND GRUB ONLY AS NECESSARY TO INSTALL SEDIMENT AND EROSION CONTROL MEASURES SHOWN AND NOTED ON DRAWINGS.
- 6. INSTALL SEDIMENT AND EROSION CONTROL MEASURES (E.G., SILT FENCE AND SEDIMENT TUBES) IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
- 7. NOTIFY CITY OF ROCK HILL THAT EROSION CONTROL MEASURES ARE IN PLACE. WORK WILL NOT PROGRESS UNTIL CONTROLS HAVE BEEN INSTALLED, INSPECTED AND APPROVED BY CITY OF ROCK HILL.
- 8. CLEAR AND GRUB SITE (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- 9. COMPLETE ROUGH GRADING TO PROVIDE WATER MAIN DESIRED COVER IN AREAS BEING CUT OR FILLED.
- 10. BEGIN WATER MAIN LAYING OPERATIONS. EXCAVATE TRENCH FOR THE PIPE THAT WILL BE INSTALLED AS PART OF THE WORK AREA, INSTALL BEDDING IF NEEDED, INSTALL PIPE, AND BACKFILL TRENCH IN THE WORK AREA.
- 11. COMPLETE FINE GRADING, DRIVEWAY REPAIR, AND GRASSING IN THE WORK AREA IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
- 12. INSTALL SEDIMENT TUBES IN DITCHES TO AID IN SEDIMENT REMOVAL WHILE STABILIZATION OCCURS.
- 13. INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAN OUT SEDIMENT FROM EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED ON DRAWINGS. MAKE NEEDED REPAIRS IMMEDIATELY.
- 14. PERFORM PERMANENT/FINAL STABILIZATION MEASURES.
- 15. WITHIN 30 DAYS AFTER SITE IS STABILIZED (AS APPROVED BY OWNER AND ENGINEER), REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM DEVICE REMOVAL.
- 16. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
- 17. SUBMIT NOTICE OF TERMINATION (NOT) TO CITY OF ROCK HILL AS APPROPRIATE.





YORK COUNTY TRANSPORTATION

SC-72 WIDENING FROM RAMBO ROAD

WATER RELOCATIONS
SED/ERO CONTROL AND
CONSTRUCTION SEQUENCE NOTES

PROJECT NO. 120959-111726 FILE NAME: G002NOTE.DWG

SHEET NO.

G-2

_____ TCE _____

_____ LOD _____

—___x—__x—__x—_

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_____ TCE _____

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____X ___X ___

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UTILITY NEW MAIN THIS PROJECT TEMPORARY CONSTRUCTION EASEMENT CABLE PERMANENT UTILITY EASEMENT TELEPH R/W - RIGHT OF WAY SPLICE SILT FENCE WATER LIMITS OF DISTURBANCE TRANSF PROPOSED FENCE POWER VEGETATION LIMITS OTHER CATCH EXISTING TEMP. CONSTRUCTION EASEMENT

EXISTING PERMANENT UTILITY EASEMENT

PROPERTY LINE

EXISTING WATER MAIN

EXISTING GAS MAIN

EDGE OF PAVEMENT

MONITORING WELL

PROPOSED FITTING

BORING LOCATION

SEDIMENT TUBE

PROPOSED GATE VALVE

PROPOSED BUTTERFLY VALVE

PROPOSED FIRE HYDRANT

SURVEY CONTROL POINT

SILT FENCE STONE OUTLET

EXISTING WATER VALVE

EXISTING GAS VALVE CAP

EXISTING WATER METER

EXISTING FIRE HYDRANT

EXISTING LIGHT POLE

EXISTING POWER POLE

EXISTING ELECTRIC METER

EXISTING SOIL BORING

EXISTING CAMERA POLE

EXISTING WITNESS POST

EXISTING TV HANDHOLE

PAVEMENT REMOVAL

EXISTING TELECOM PEDESTAL

EXISTING TELECOM REPEATER

INDIVIDUAL TREE PROTECTION

DRIVEWAY/ PAVEMENT REPLACEMENT

EXISTING HAND HOLE

EXISTING GUY POLE

EXISTING GUY WIRE

EXISTING MAILBOX

EXISTING SANITARY SEWER MANHOLE

EXISTING STORM DRAIN MANHOLE

EXISTING CLEANOUT

INVERT ELEVATION

EXISTING SIGN

CUT/FILL

EXISTING STORM DRAIN

EXISTING SANITARY SEWER

EXISTING BURIED TELECOM

EXISTING OVERHEAD ELECTRIC

EXISTING OVERHEAD TELEPHONE

EXISTING UNDERGROUND ELECTRIC

EXISTING UTILITY TO BE ABANDONED

EXISTING CHAIN LINK FENCE

EXISTING UNDERGROUND CABLE TV

UTILITY WITNESS MARKER
CABLE TV BOX
TELEPHONE PEDESTAL
SPLICE BOX
WATER MANHOLE
TRANSFORMER BOX
POWER POLE
OTHER USE POLE
CATCH BASIN
DROP INLET
POSSIBLE FUTURE MAST ARM
GAS TEST POINT

EASEMEN	INDEX		
		 _	 _

PROP NO.	TMS NO.	OWNER ADDRESS	OWNER	DB	PG	NOTES
9	6050000015	2783 SALUDA ROAD	MOFFATT KATHERINE E	6933	21	
37	6030301103	606 FAVORWOOD DRIVE	BARBER MARY K	10718	209	
38	6050000026	925 W MAIN ST	WILSON JAMES K	891	274	
41A	6030000078	PO BOX 11485	OAKDALE VOLUNTEER FIRE	16890	83	
41	6030000055	701 CREEKBRIDGE DR	HEUSER FREDERICK A	12925	147	
43	6030000029	1483 SHYTLE ROAD	BLACKWELL EDWARD L	1068	275	
70	6030101001	2520 SALUDA RD	HEMPHILL ANTWAN LAVETTE	16755	305	
86	6030201002	660 NORTH ANDERSEN RD	ROCK HILL SCHOOLS DIST 3	1712	211	
91	6030000036	2246 SALUDA RD	DUNLAP RONALD W JR TRUSTEE &	16943	213	
92	6030000035	2246 SALUDA RD	DUNLAP ANNE B	16754	361	
96	604000001	2196 SALUDA RD	HOLDER JOHN T R	13768	216	
103	6020000029	331 IVY ARBOR CIRCLE	NGUYEN KHANK & COUNG	12658	266	
112	6040601146	510 TARRINGTON DR	GOOD LAURA	11444	158	
133	6040601105	223 E MAIN ST STE 402	RODDEY ESTATES INC	0560	133	
138	6040601113	195 WEST ENGLEWOOD AVE	B&D APARTMENT PROPERTIES LLC	14933	280	
139	6020601057	2786 VISTAWOOD RD	PALMETTO FAMILY HOMES LLC	5521	212	
140	6020601036	4012 ORCHID WAY	JANMANGAL INC	17442	312	
141	6020701042	PO BOX 8050	WAL-MART REAL EST BUSINESS TR	14933	285	
142	6020601032	1726 SALUDA ROAD	BURRIS DONALD A	1901	98	
143	6020701042	PO BOX 4143	HANCOCK ETAL, R DARRELL	3722	74	
150	6020601002	2535 LESSLIE HWY	CALZADA STEVEN	17671	62	
151	6020601001	785 E LANEY TERRACE	SMALLS CHARLES N			
153	6020601035	5079 THEODORE ROAD	RODDEY CYNTHIA P & ORESA D	14323	181	
154	6020601037	5079 THEODORE ROAD	RODDEY CYNTHIA PLAIR	3147	256	
159	6020601053	785 E LANEY TERRACE	RODDEY CYNTHIA PLAIR	7424	118	

TEST HOLE DATA

TEST HOLE NO. STATION/OFFSET NORTHING EASTING TOP ELEVATION DESCRIPTION OWNER 1 STA 95+98/RIGHT 75.6° 1113292.7813° 1988012.6753° 607.070° 4" METAL SS SERVICE CITY OF ROCK HILL 2 1108890.1883° 1985320.5359° 605.020° 6" METAL GAS PLAINS PIPELINE 3 1108891.1075° 1985303.3759° 610.620° 12" METAL GAS DOMINION ENERGY 4 1108891.2258° 1985291.7392° 608.120° 16" METAL GAS DOMINION ENERGY 5 1108910.1683° 1985299.6650° 612.700° 12" NETAL GAS DOMINION ENERGY 6 1108910.1683° 1985299.6650° 623.020° 6" METAL GAS PLAINS PIPELINE 7 STA 49+28/RIGHT 60.4° 1109884.3829° 1985223.2399° 623.020° 6" METAL GAS DOMINION ENERGY 9 STA 49+07/RIGHT 61.6° 1109874.7021° 1985219.3675° 623.240° 12" METAL GAS DOMINION ENERGY 10 1112650.8999° 1986333.2464° 623.350° 12" METAL GAS DOMINION ENERGY <							
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10	8	STA 49+07/RIGHT 61.6'	1109874.7021'	1985219.3675'	623.240'	12" METAL GAS	DOMINION ENERGY
11	9	STA 49+07/RIGHT 62.8'	1109864.5344'	1985215.2531'	621.070'	16" METAL GAS	DOMINION ENERGY
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18 1108827.8744' 1985298.1549' 608.870' 12" METAL GAS DOMINION ENERGY 19 1108825.9021' 1985314.3289' 605.940' 6" METAL GAS PLAINS PIPELINE 20 1107094.1082' 1982471.5207' 616.470' 12" METAL WATER CITY OF ROCK HILL	16	STA 49+54/LEFT 0.7'	1109936.0576'	1985181.1691'	622.590'	6" METAL GAS	PLAINS PIPELINE
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20 1107094.1082' 1982471.5207' 616.470' 12" METAL WATER CITY OF ROCK HILL	18		1108827.8744'	1985298.1549'	608.870'	12" METAL GAS	DOMINION ENERGY
	19		1108825.9021'	1985314.3289'	605.940'	6" METAL GAS	PLAINS PIPELINE
21 1107123.1876' 1982382.9939' 616.080' 12" METAL WATER CITY OF ROCK HILL	20		1107094.1082'	1982471.5207'	616.470'	12" METAL WATER	CITY OF ROCK HILL
	21		1107123.1876'	1982382.9939'	616.080'	12" METAL WATER	CITY OF ROCK HILL

SD

GENERAL ABBREVIATIONS

AIR RELEASE VALVE

.r. v	AIR RELEASE VALVE			
SP	ASPHALT	LOD	LIMITS OF DISTURBANCE	SF
		MH	MANHOLE	SS
B	CATCH BASIN	MIN	MINIMUM	SSMH
MP	CORRUGATED METAL PIPE	MJ	MECHANICAL JOINT	STA
ONC	CONCRETE	MUP	MULTI-USE PATH	SV
I, DIP	DUCTILE IRON PIPE	OHE	OVERHEAD POWER LINE	
R	DRIVE	P	PLASTIC	TCE
OI	END OF INFORMATION	PD	PROPOSED	TS&V
				TYP
L, ELEV	ELEVATION	PE	PERMANENT EASEMENT OR PLAIN END	UT
OP	EDGE OF PAVEMENT	PED	PEDESTAL	UE
X	EXISTING	PL	PROPERTY LINE	W
LG	FLANGED	PP	POWER POLE	WM
М	FORCE MAIN	PS	PUMP STATION	WV
R	GRAVEL	PVC	POLYVINYL CHLORIDE PIPE	VVV
	GAS	RED	REDUCER	
V	GAS VALVE	RCP	REINFORCED CONCRETE PIPE	
<u> </u>	INVERT ELEVATION	RJ	RESTRAINED JOINT	
NFL	INFLUENT	R/W	RIGHT-OF-WAY	
NV	INVERT	S	STEEL	

JUNE 2022

LINEAR FEET

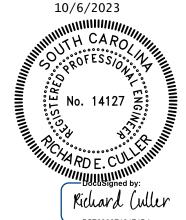
GENERAL G-0COVER SHEET G-1GENERAL AND WATER NOTES G-2SED/ERO CONTROL AND CONSTRUCTION SEQUENCE NOTES G-3LEGEND, SHEET INDEX AND SUPPLEMENTARY INFORMATION G-4KEY MAP AND PROJECT CONTROL CIVIL C-1WATER MAIN PLAN ROAD STA. 15+00 TO STA. 21+00 C-2WATER MAIN PLAN ROAD STA. 21+00 TO STA. 27+00 C-3WATER MAIN PLAN ROAD STA. 27+00 TO STA. 33+00 C-4WATER MAIN PLAN ROAD STA. 33+00 TO STA. 39+00 C-5WATER MAIN PLAN ROAD STA. 39+00 TO STA. 45+00 C-6WATER MAIN PLAN ROAD STA. 45+00 TO STA. 51+00 C-7WATER MAIN PLAN ROAD STA. 51+00 TO STA. 57+00 WATER MAIN PLAN ROAD STA. 57+00 TO STA. 63+00 C-8 C-9 WATER MAIN PLAN ROAD STA. 63+00 TO STA. 69+00 C - 10WATER MAIN PLAN ROAD STA. 69+00 TO STA. 75+00 C - 11WATER MAIN PLAN ROAD STA. 75+00 TO STA. 81+00 C-12 WATER MAIN PLAN ROAD STA. 81+00 TO STA. 87+00 C - 13WATER MAIN PLAN ROAD STA. 87+00 TO STA. 93+00 C - 14WATER MAIN PLAN ROAD STA. 93+00 TO STA. 99+00 C-15 WATER MAIN PLAN ROAD STA. 99+00 TO STA. 105+00 WATER MAIN PLAN ROAD STA. 105+00 TO STA. 111+00 C-16 C - 17WATER MAIN PLAN ROAD STA. 111+00 TO STA. 117+00 C-18 WATER MAIN PLAN ROAD STA. 117+00 TO STA. 123+00 C-19 WATER MAIN PLAN ROAD STA. 123+00 TO STA. 129+00 C-20 WATER MAIN PLAN ROAD STA. 129+00 TO STA. 132+32 C - 21WATER MAIN PLAN ROAD STA. 182+00 TO STA. 187+50 C - 22WATER MAIN PLAN ROAD STA. 180+26 TO STA. 182+00 C-23 WATER MAIN PLAN ROAD STA. 11+50 TO STA. 16+50 C - 24WATER MAIN PLAN ROAD STA. 10+50 TO STA. 11+50 WATER MAIN PLAN ROAD STA. 11+00 TO STA. 17+05 C - 25C-26 WATER MAIN PLAN ROAD STA. 14+00 TO STA. 18+50 C - 27WATER MAIN PLAN ROAD STA. 18+50 TO STA. 20+90 C-28 WATER MAIN PLAN ROAD STA. 10+73 TO STA. 16+55 C-29 WATER MAIN PROFILE STA. 10+00 TO STA. 20+00 WATER MAIN PROFILE STA. 20+00 TO STA. 30+00 C - 31WATER MAIN PROFILE STA. 30+00 TO STA. 40+00 C - 32WATER MAIN PROFILE STA. 40+00 TO STA. 50+00 C - 33WATER MAIN PROFILE STA. 50+00 TO STA. 60+00 C - 34WATER MAIN PROFILE STA. 60+00 TO STA. 70+00 C - 35WATER MAIN PROFILE STA. 70+00 TO STA. 80+00 WATER MAIN PROFILE STA. 80+00 TO STA. 90+00 C - 36C - 37WATER MAIN PROFILE STA. 90+00 TO STA. 100+00 C - 38WATER MAIN PROFILE STA. 100+00 TO STA. 110+00 C - 39WATER MAIN PROFILE STA. 110+00 TO STA. 120+00 C - 40WATER MAIN PROFILE STA. 120+00 TO STA. 123+18 C - 41WATER MAIN PROFILES A THROUGH E C - 42WATER MAIN PROFILES F THROUGH L DETAILS CD-1CIVIL DETAILS

SHEET INDEX

TITLE

\G/

SHEET NO.





ESIGNED BY:_ K. STUHN A. KEOUGH J. EPTINO R. CULLER PPROVED BY:____ DATE DRWN CHKD REMARKS

CDM Columbia, South Carolina 29201 Tel: (803) 758-4500

YORK COUNTY TRANSPORTATION

STORM DRAIN

SANITARY SEWER

SEWER VALVE

SANITARY SEWER MANHOLE

TAPPING SLEEVE & VALVE

UNDERGROUND TELECOM

UNDERGROUND ELECTRIC

TEMPORARY CONSTRUCTION EASEMENT

SILT FENCE

STATION

TYPICAL

WATER

WATER MAIN

WATER VALVE

SC-72 WIDENING FROM RAMBO ROAD

WATER RELOCATIONS LEGEND, SHEET INDEX AND SUPPLEMENTARY INFORMATION

CIVIL DETAILS

CIVIL DETAILS

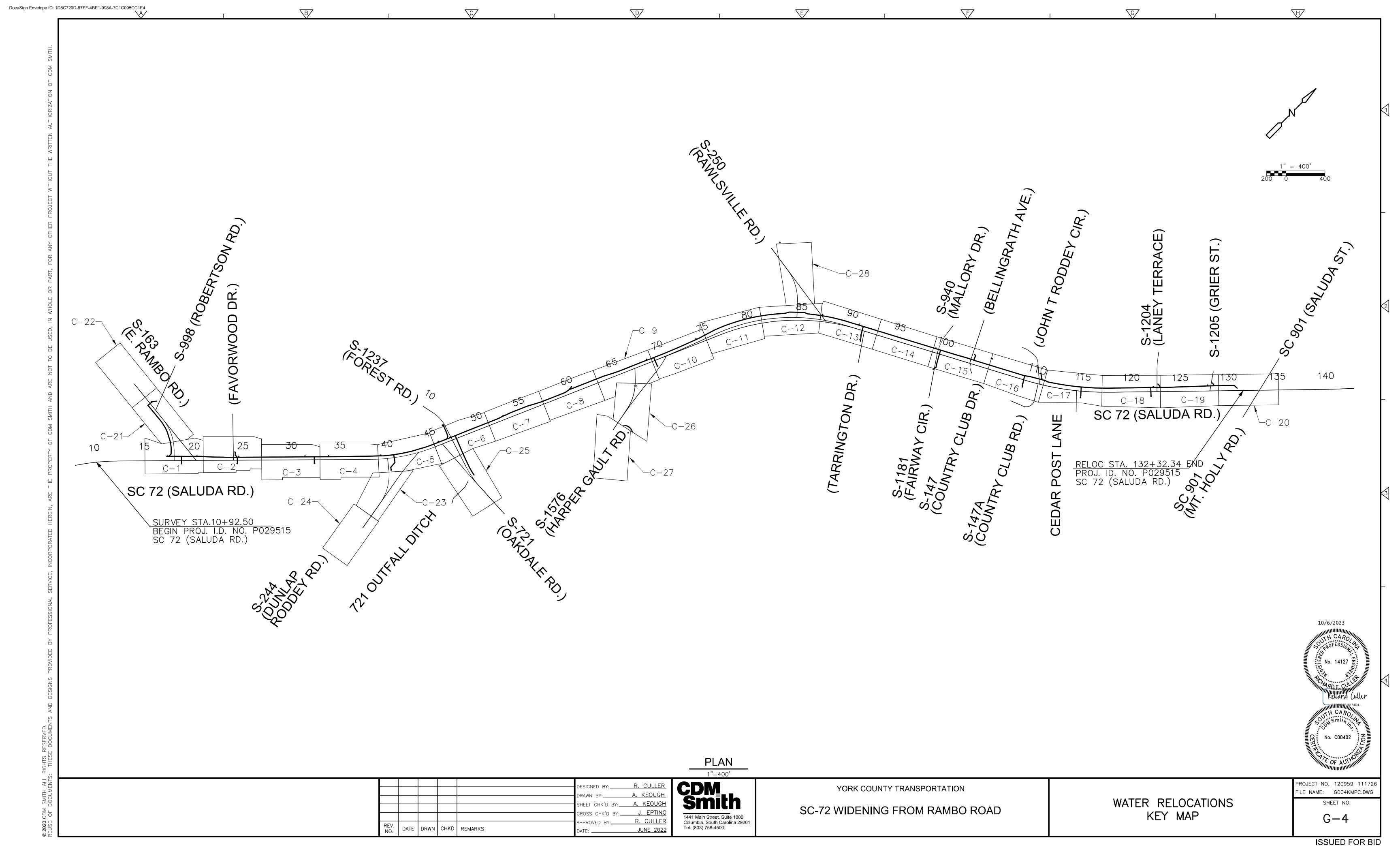
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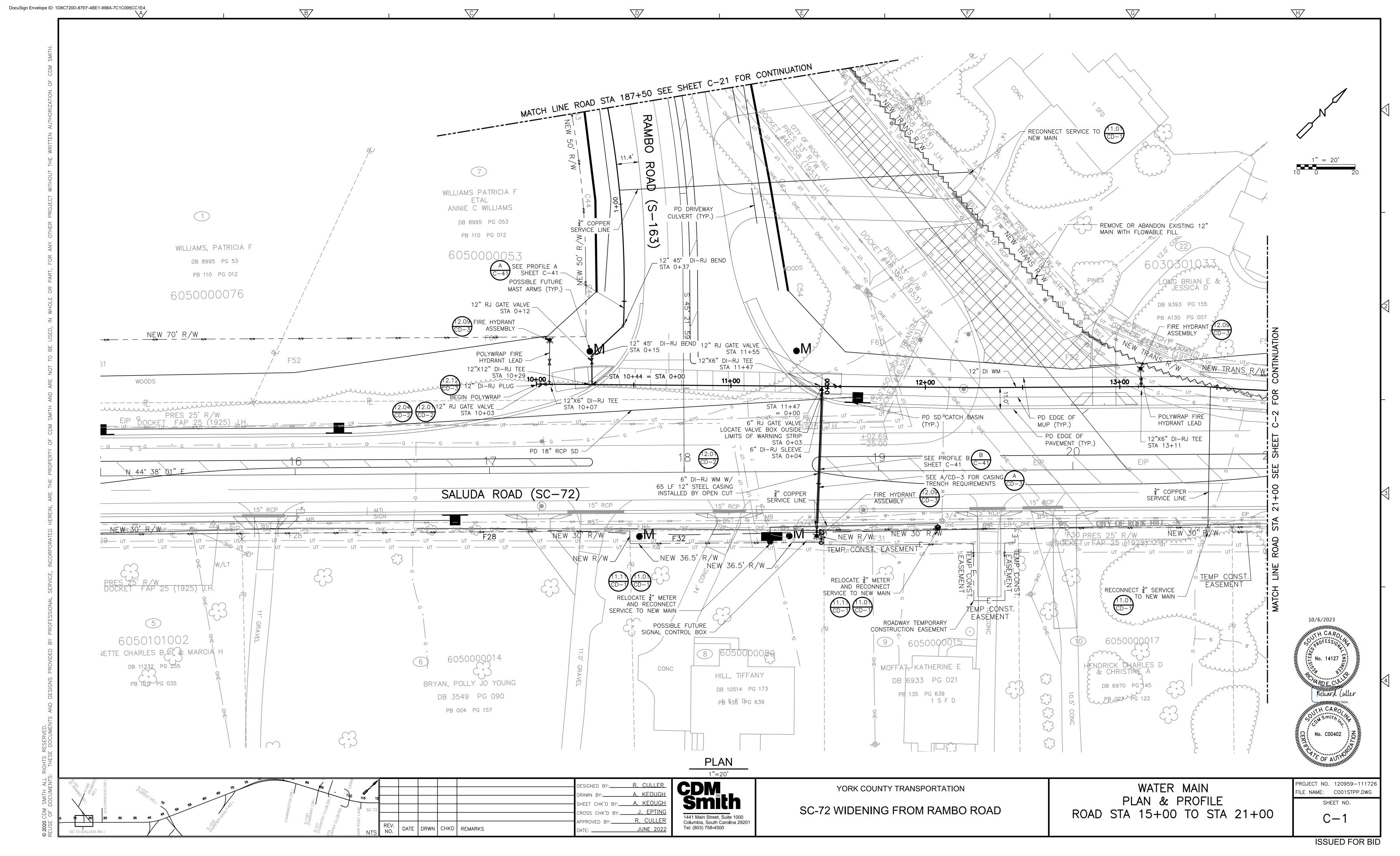
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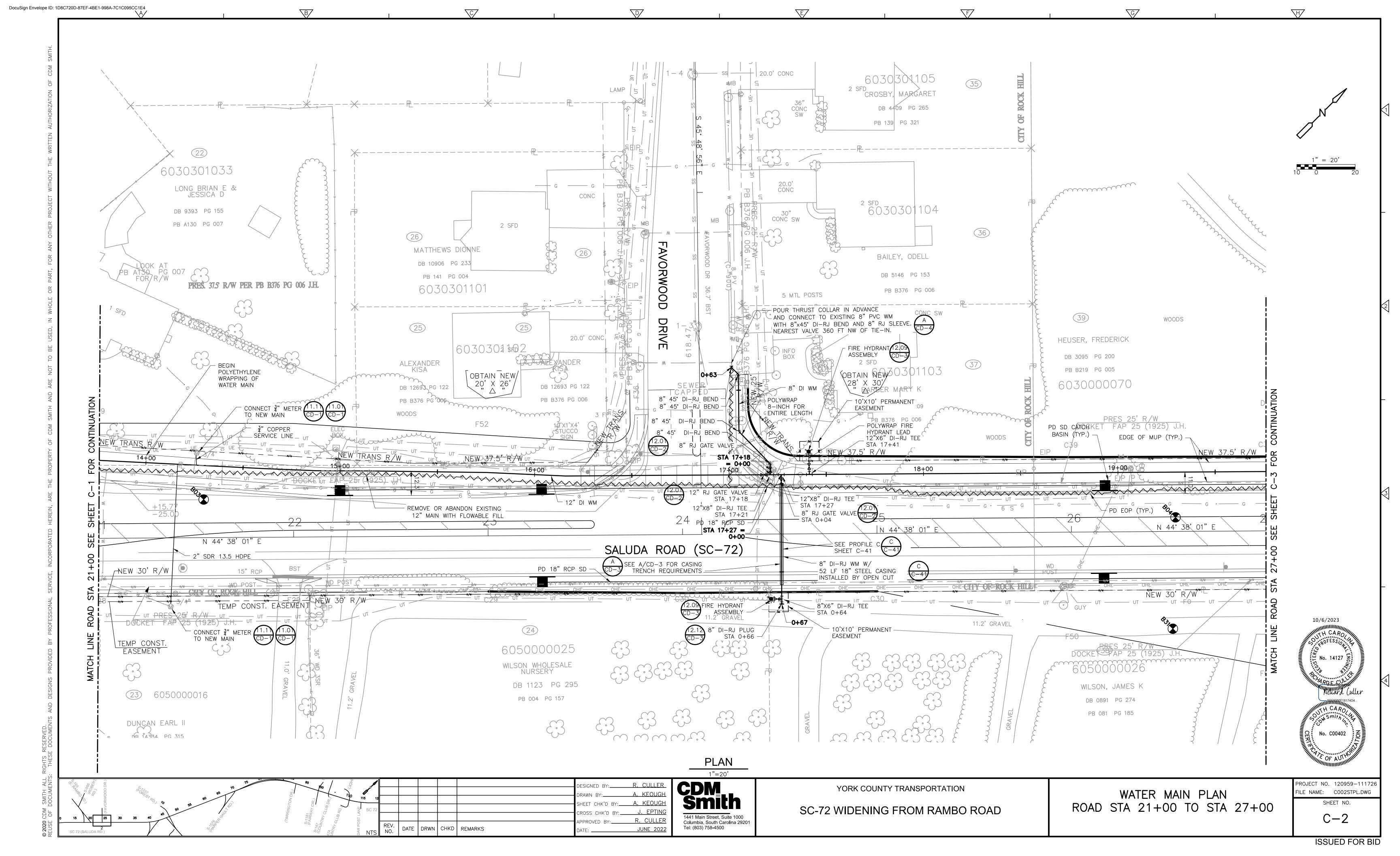
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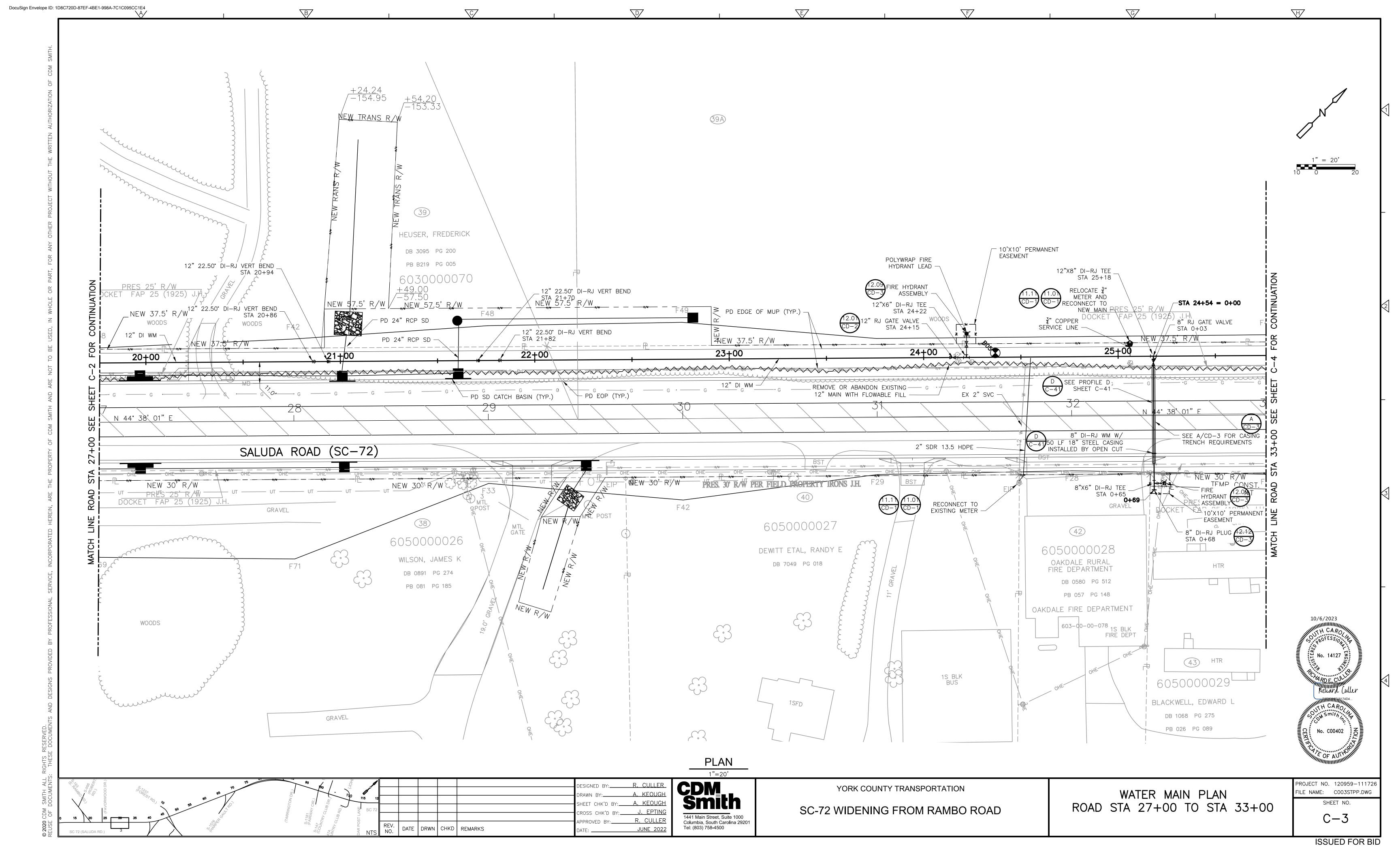
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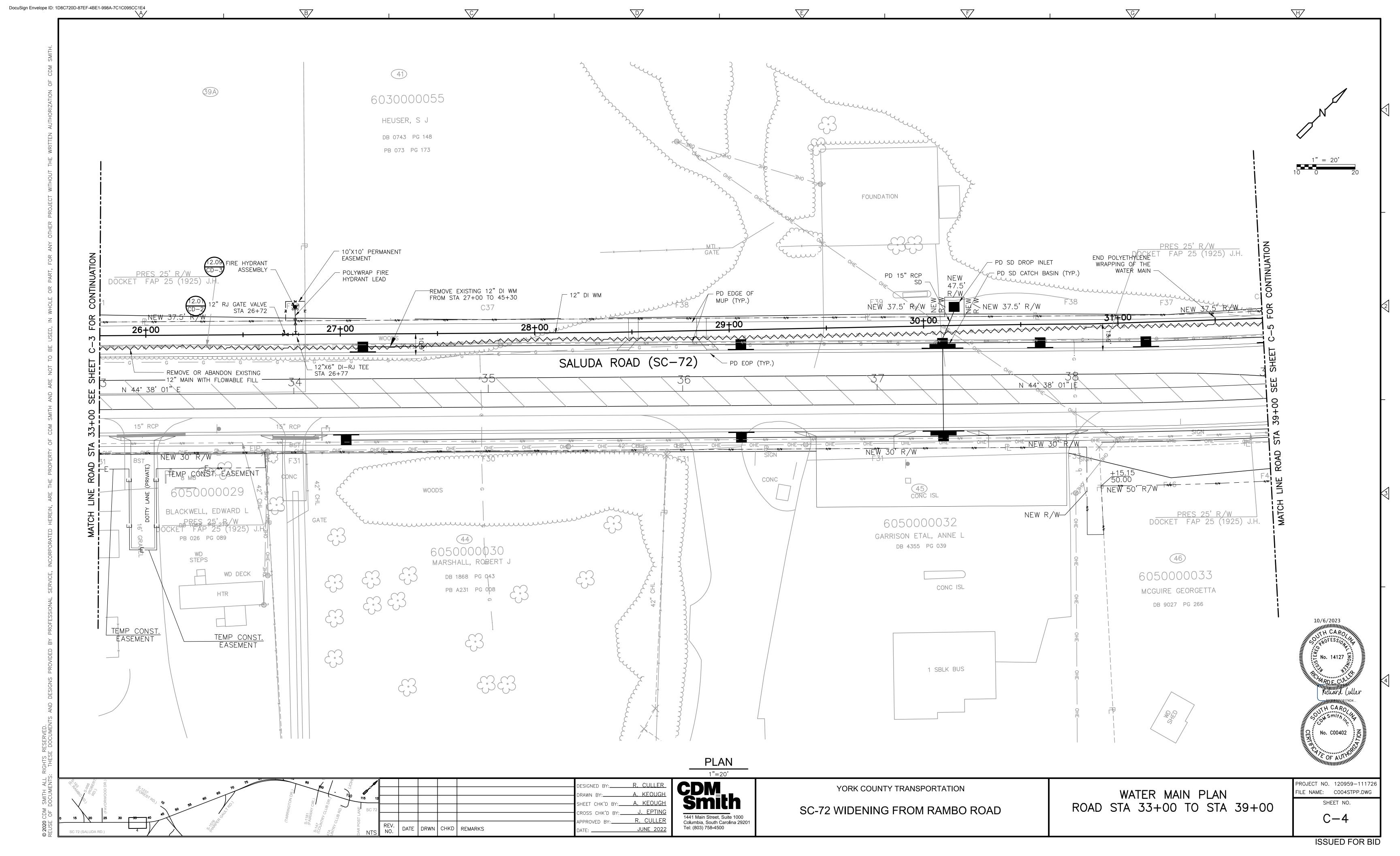
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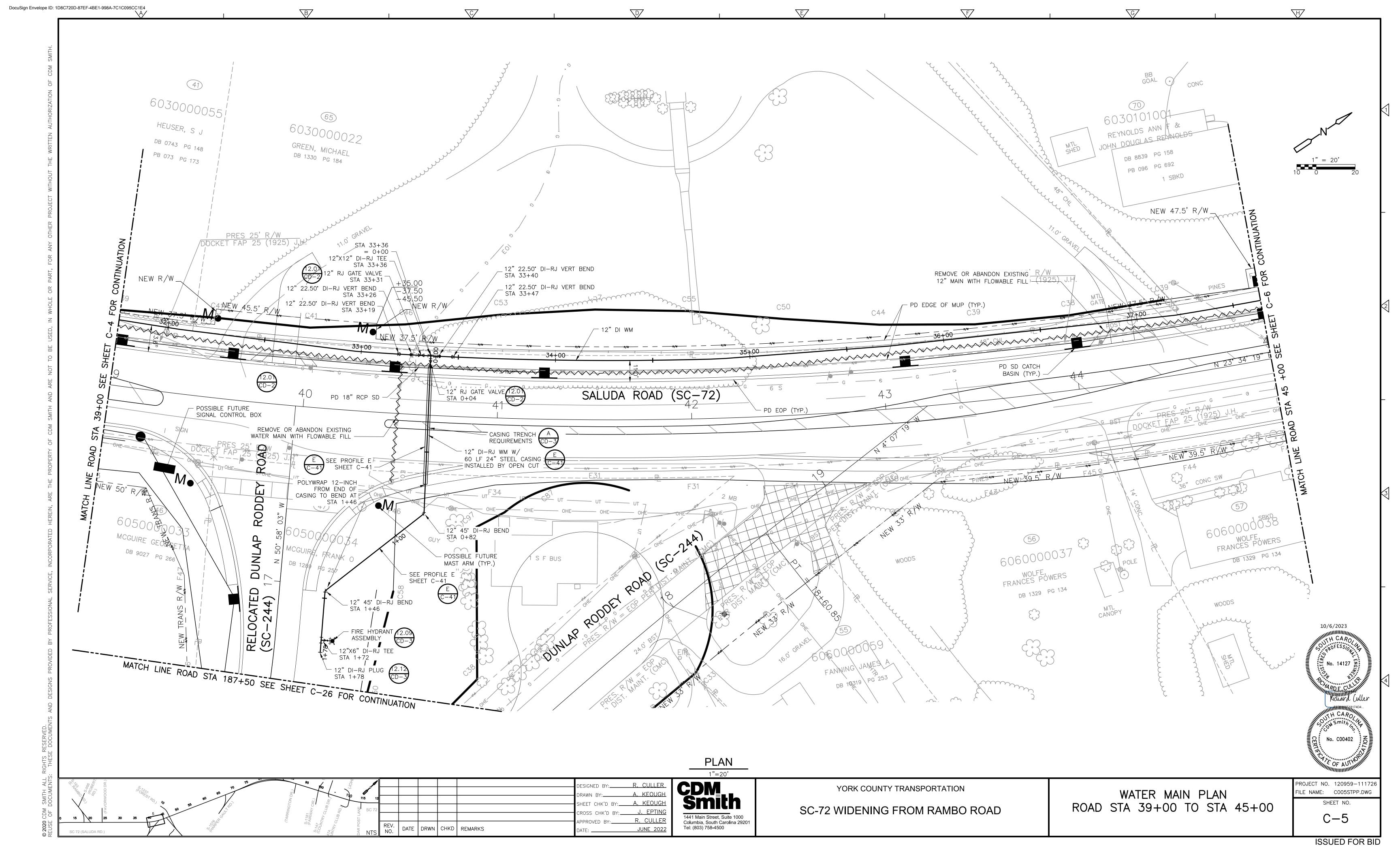


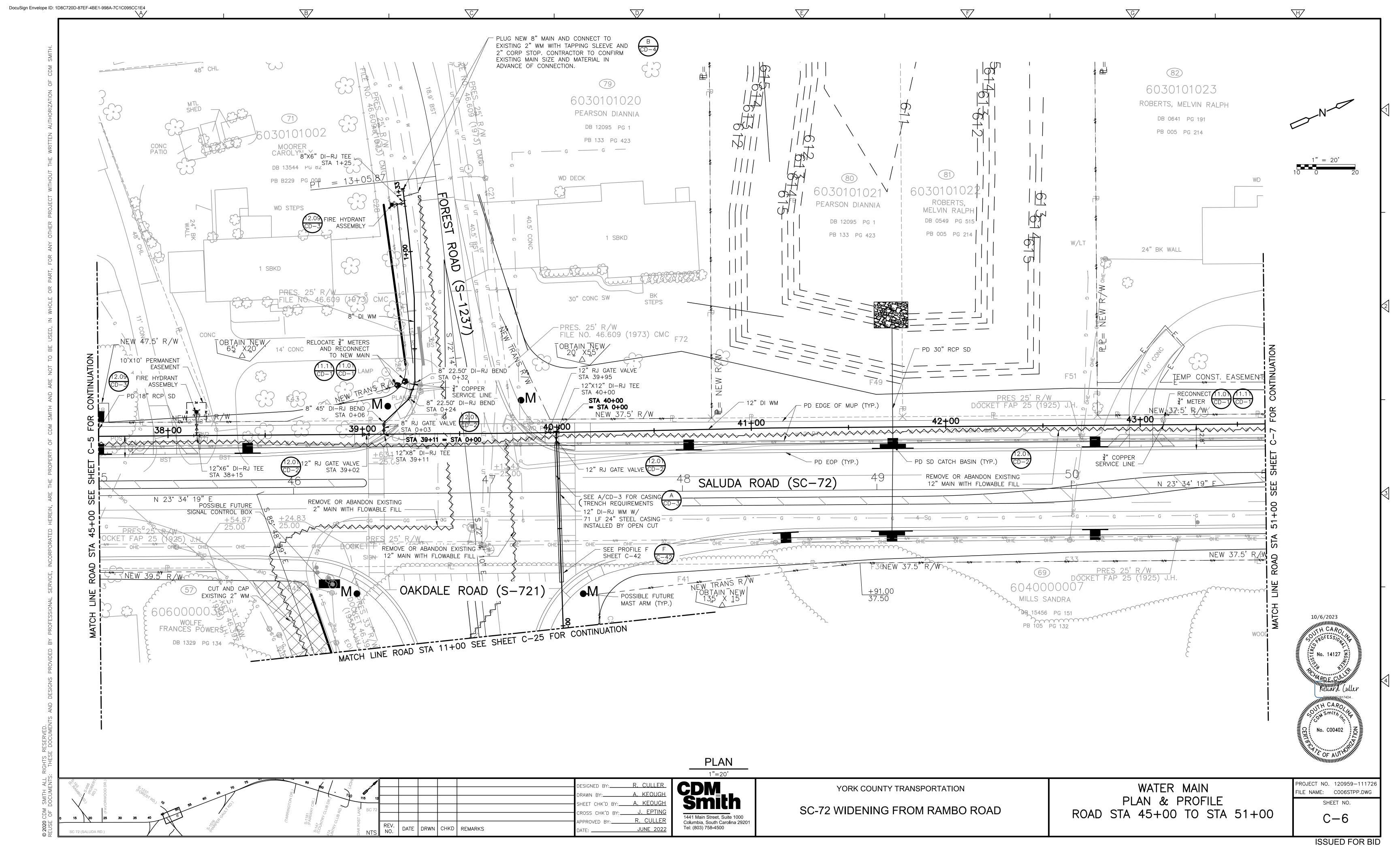


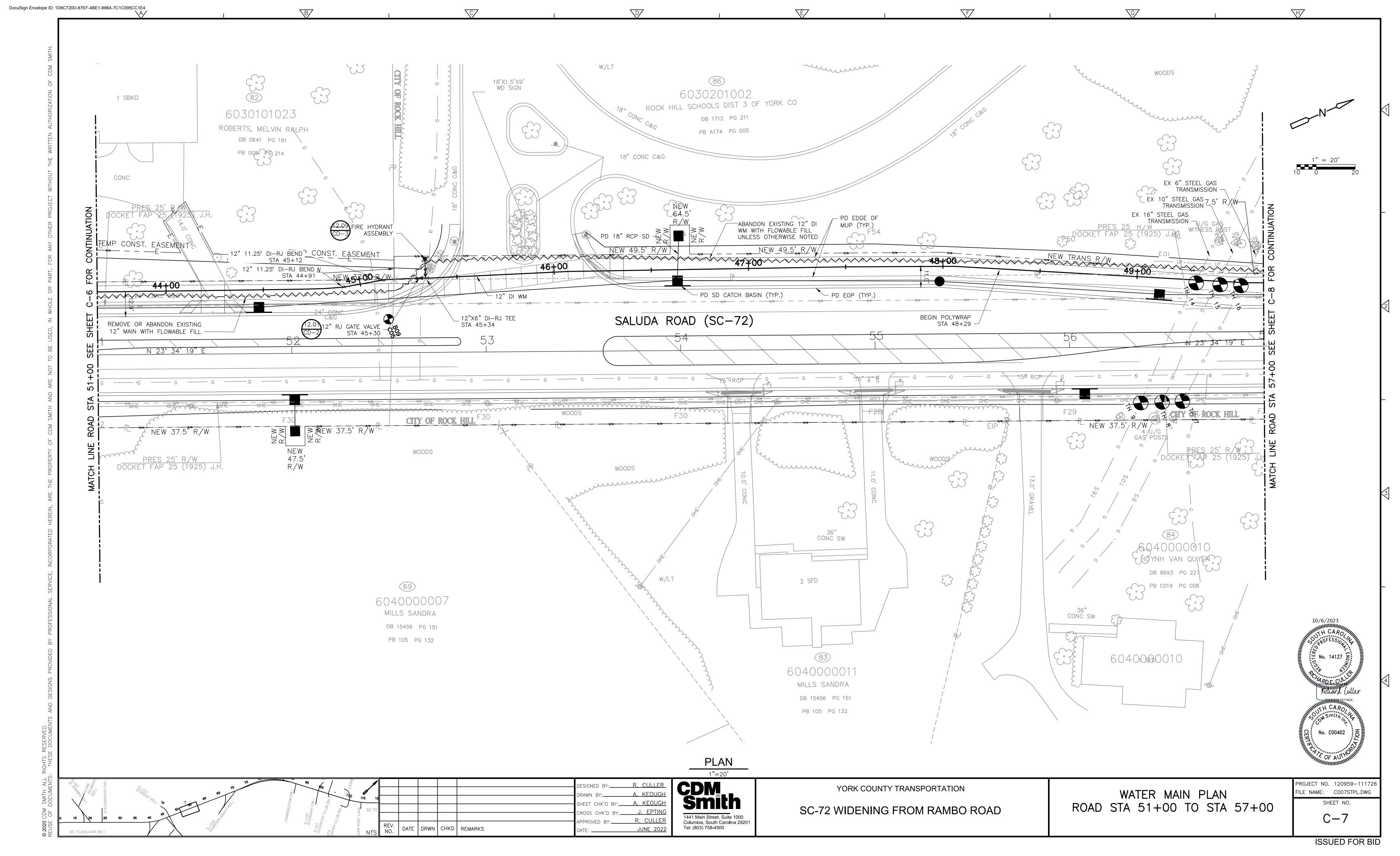


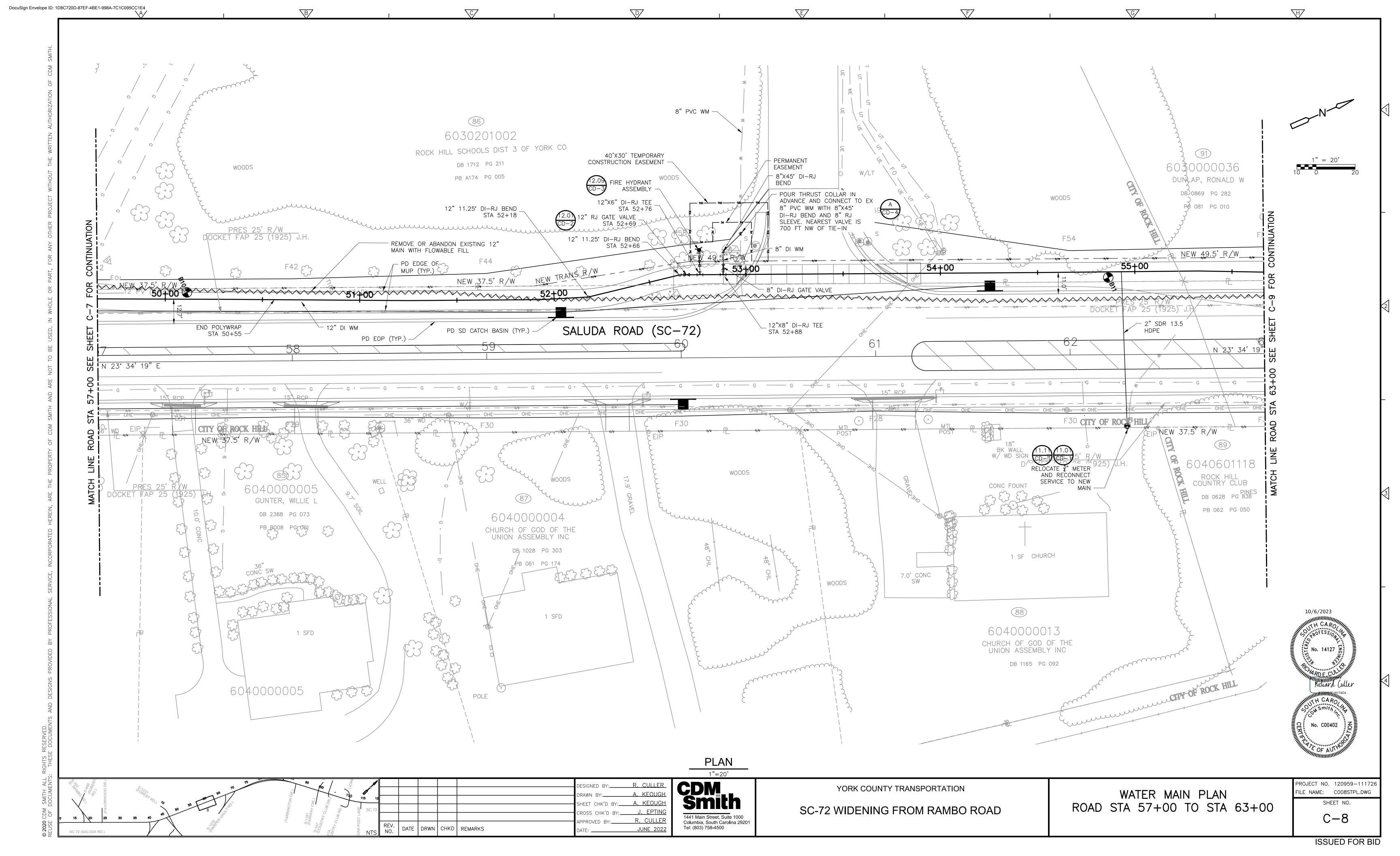


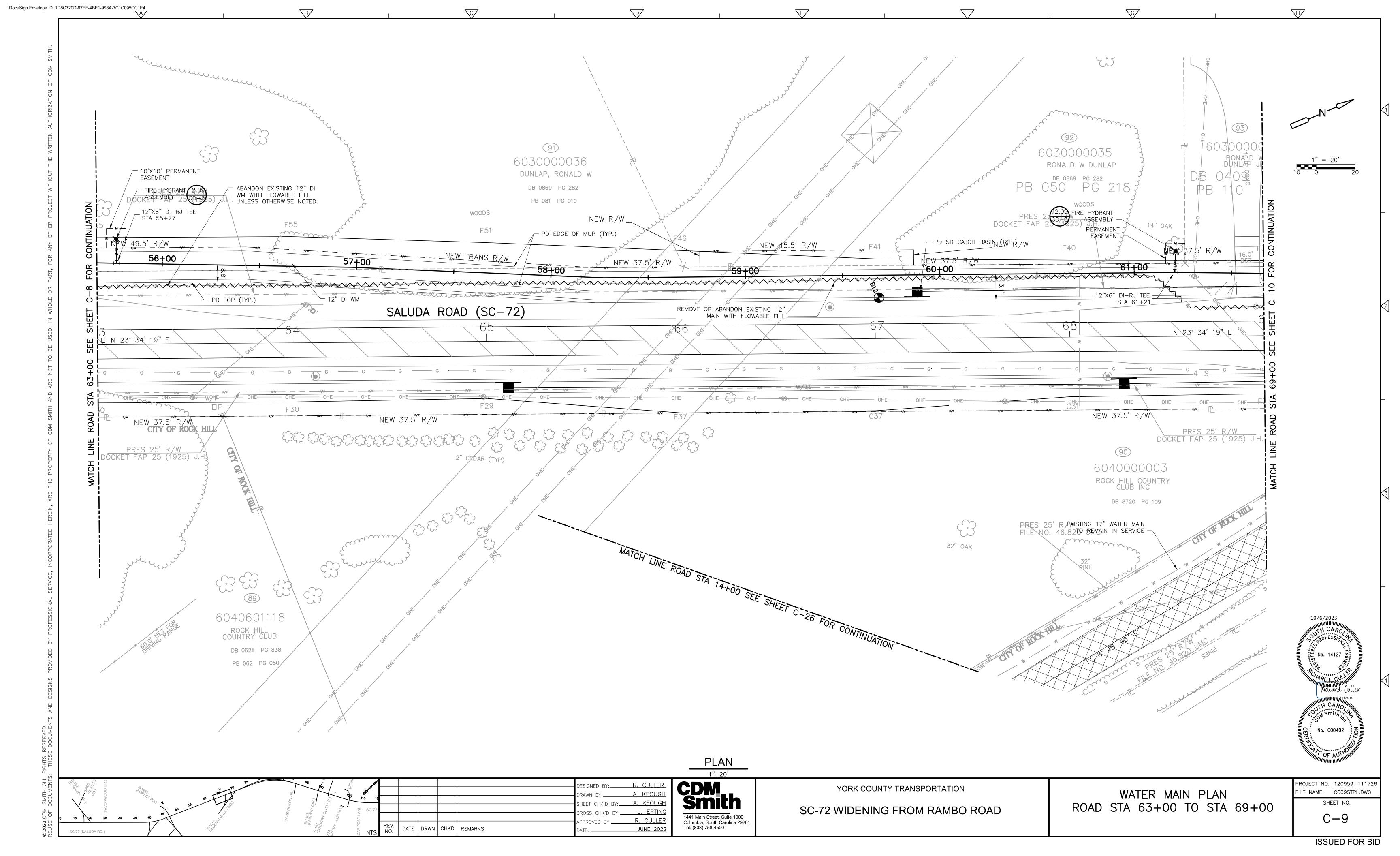


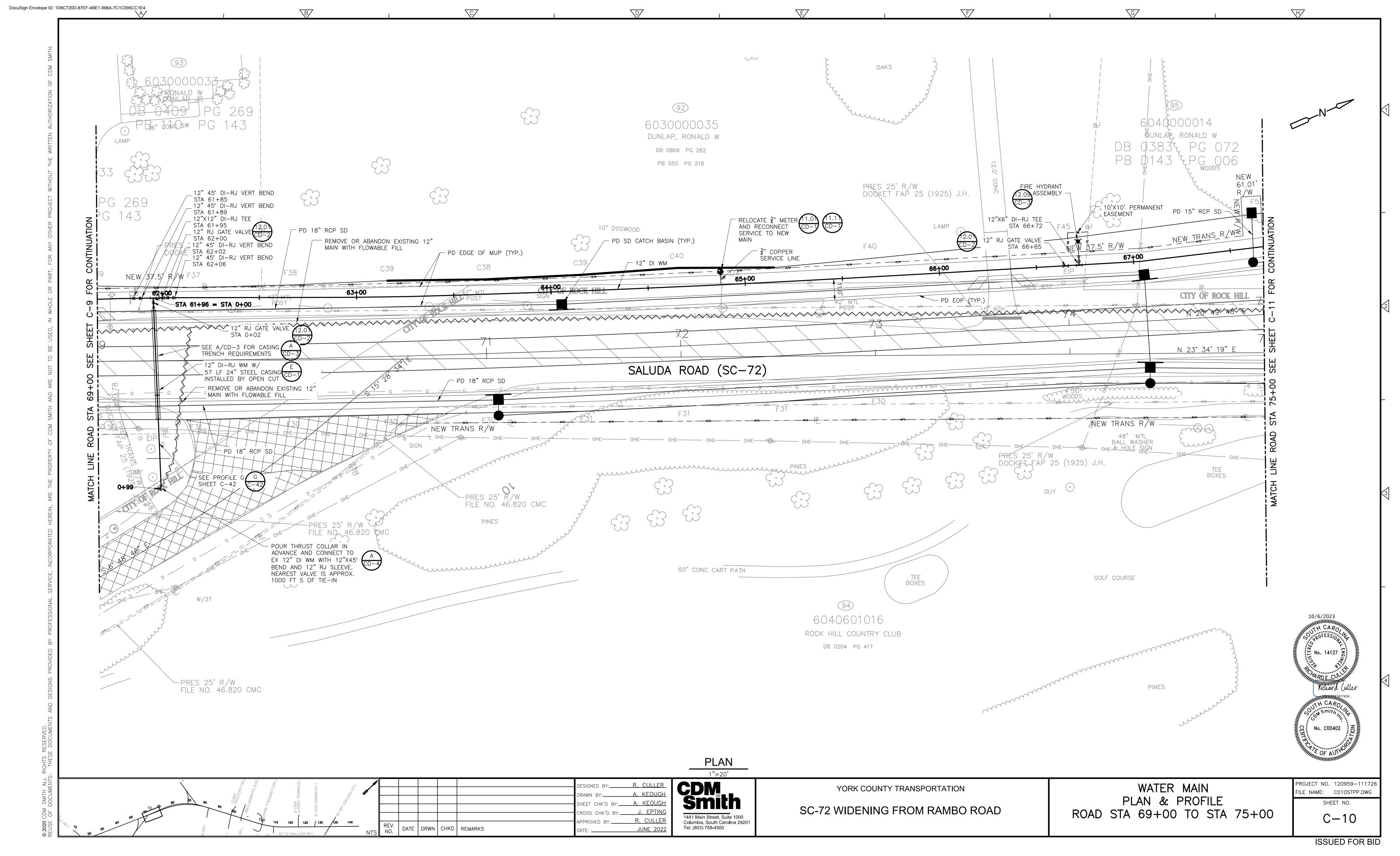


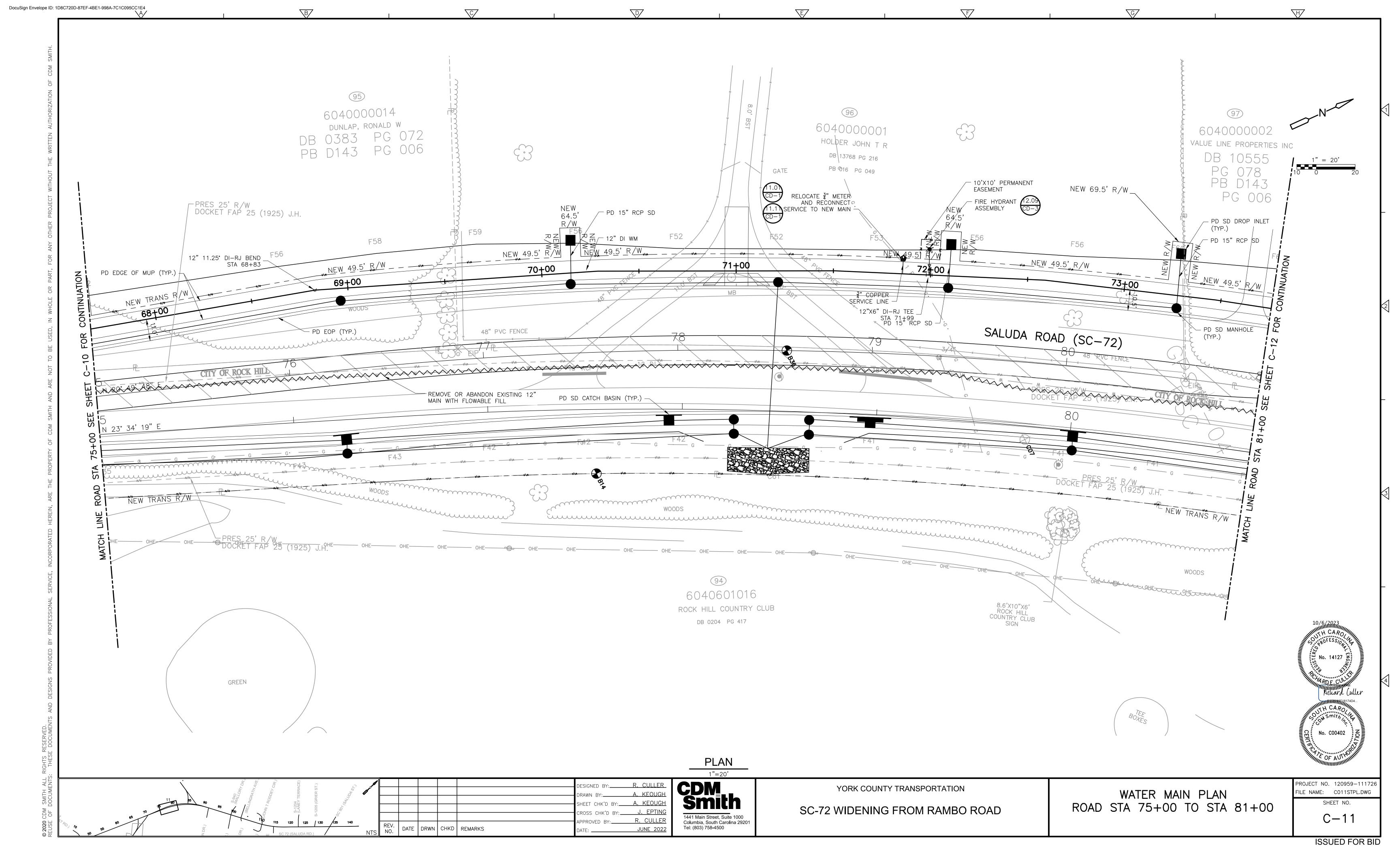


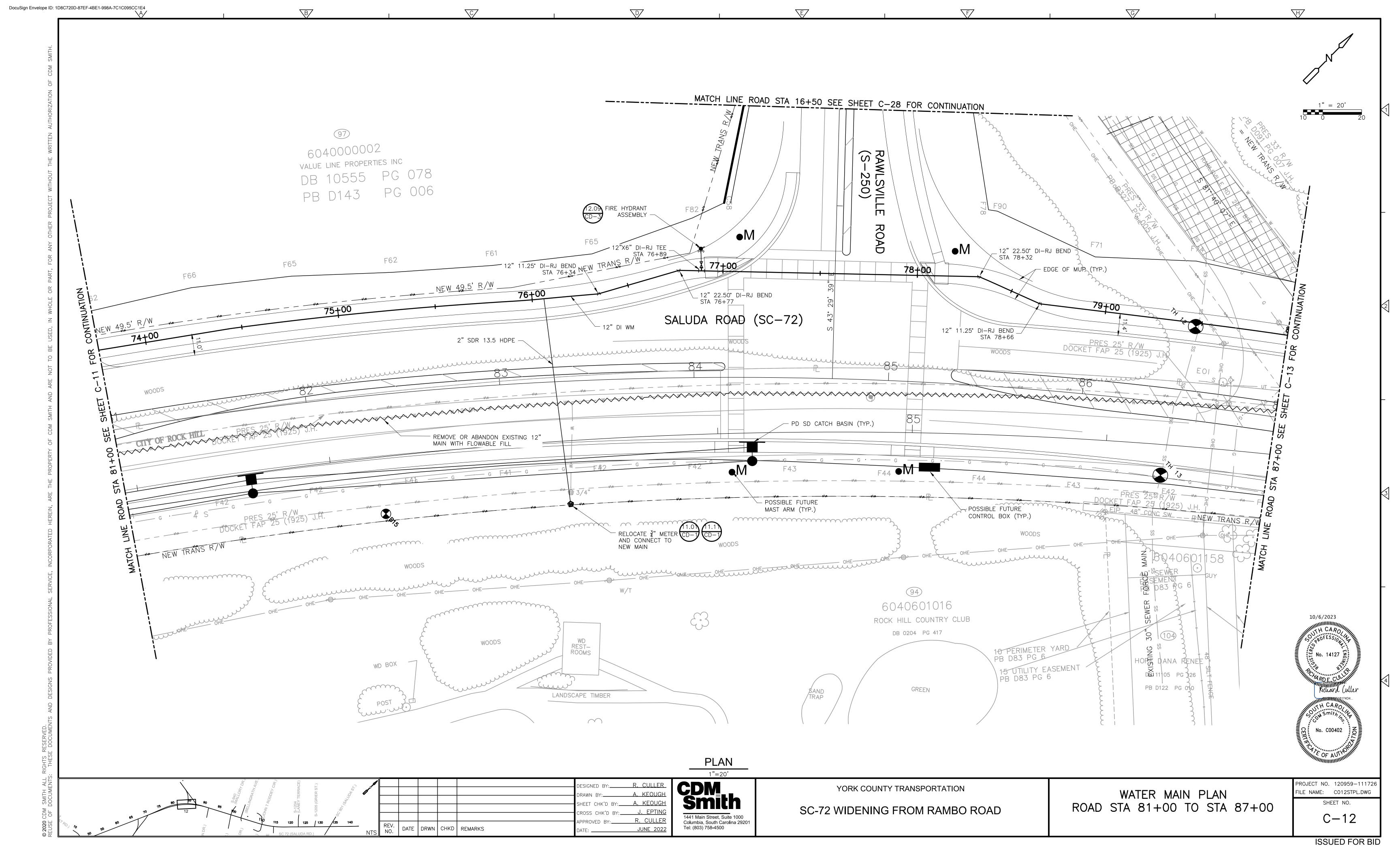


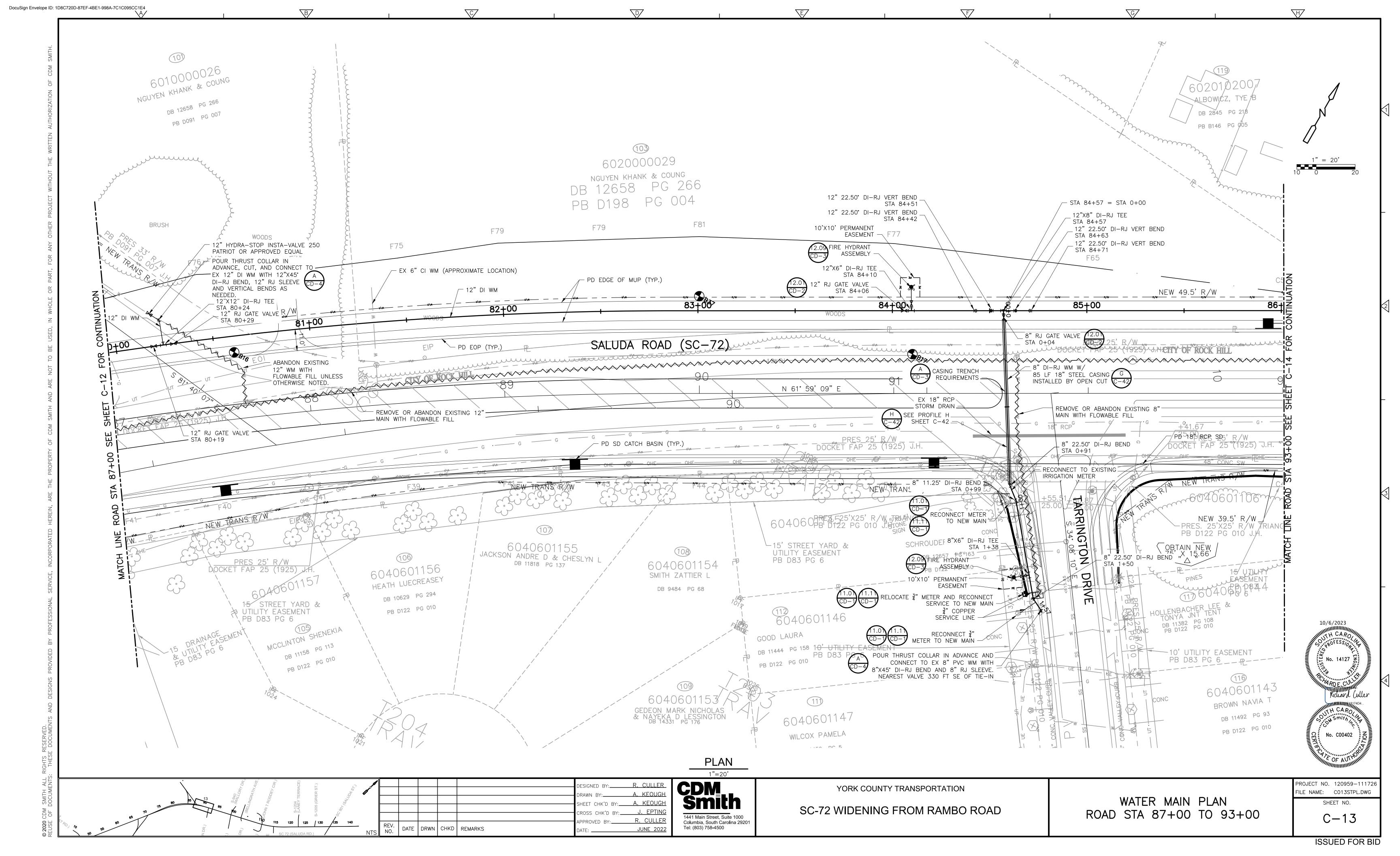


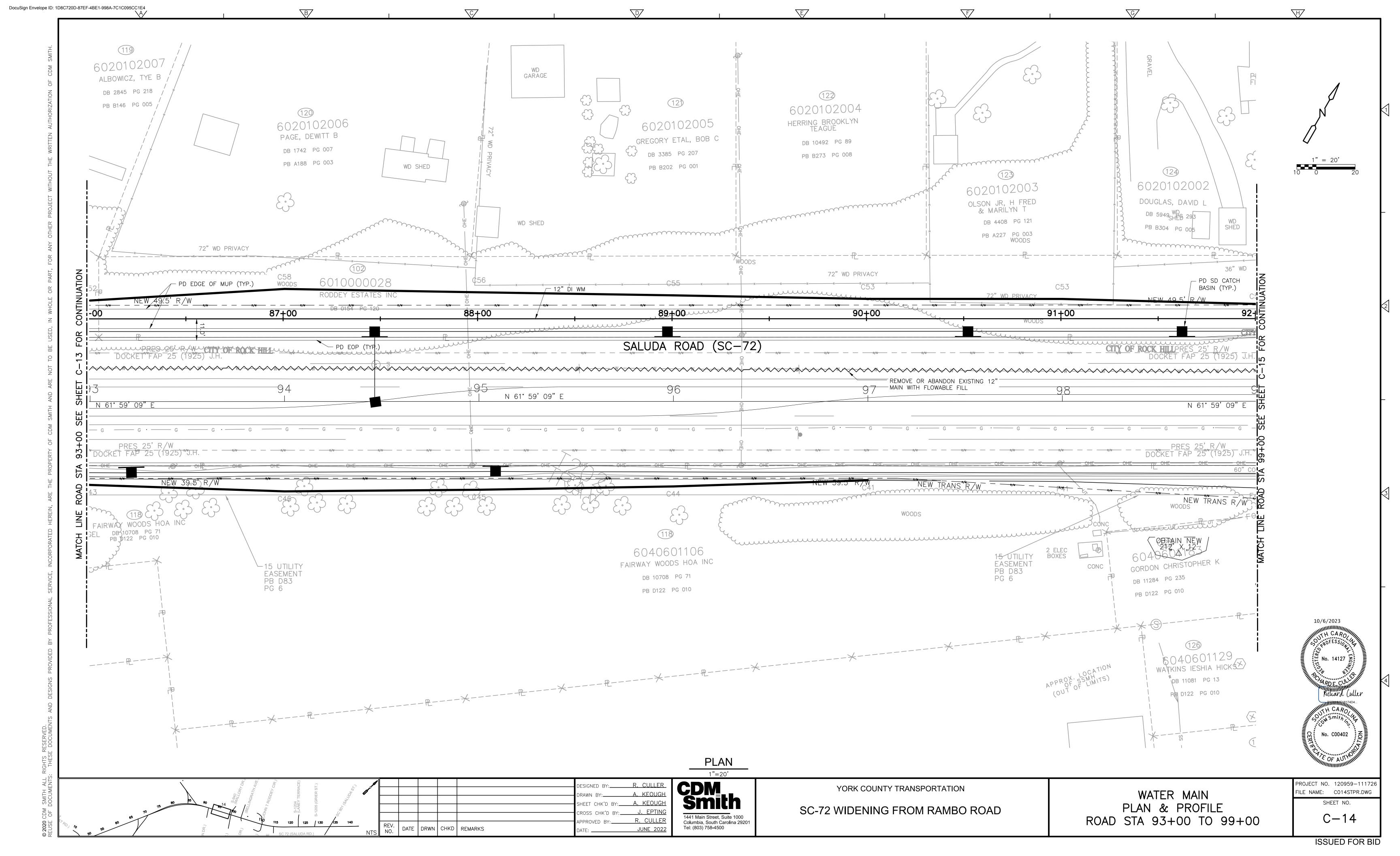


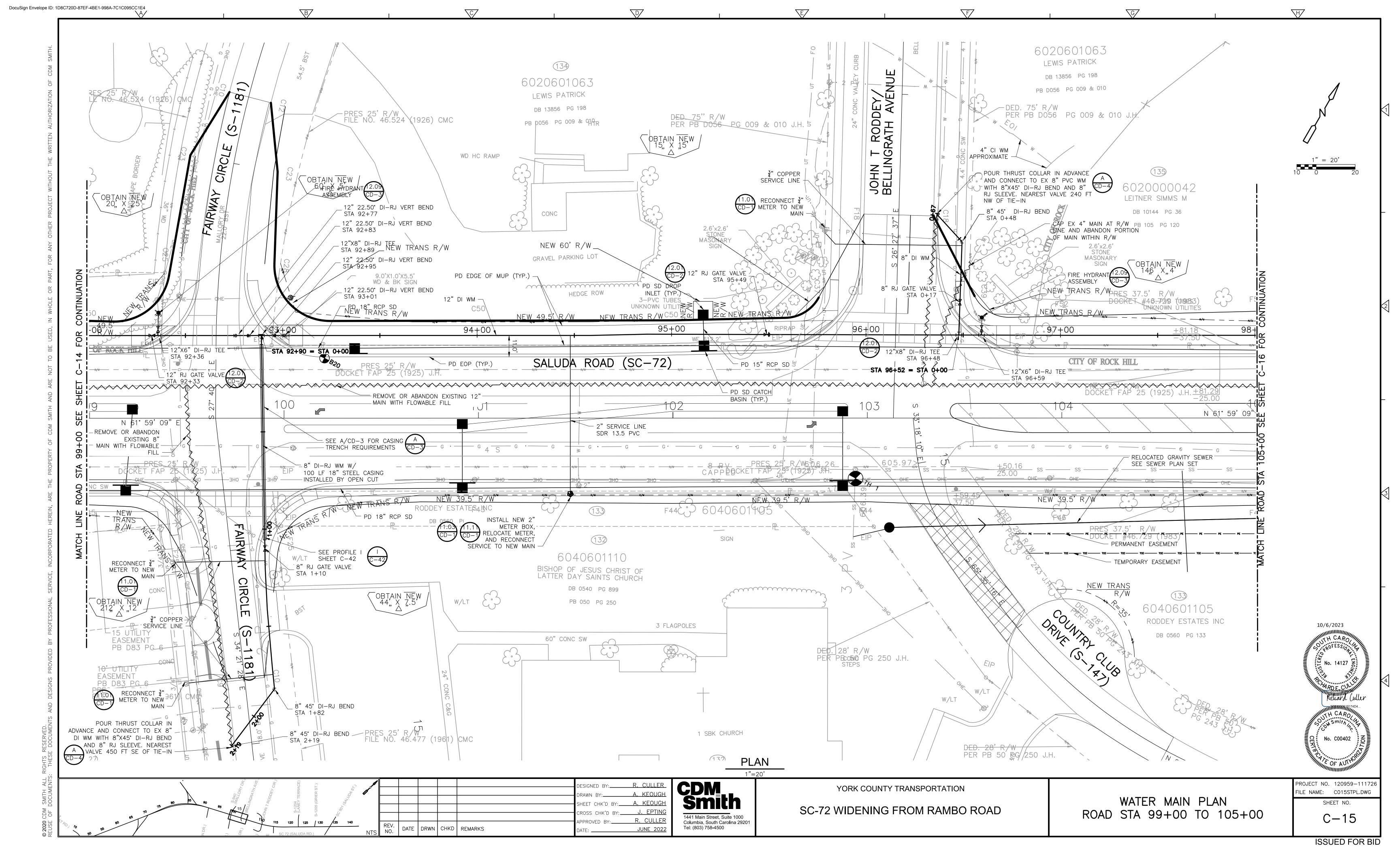


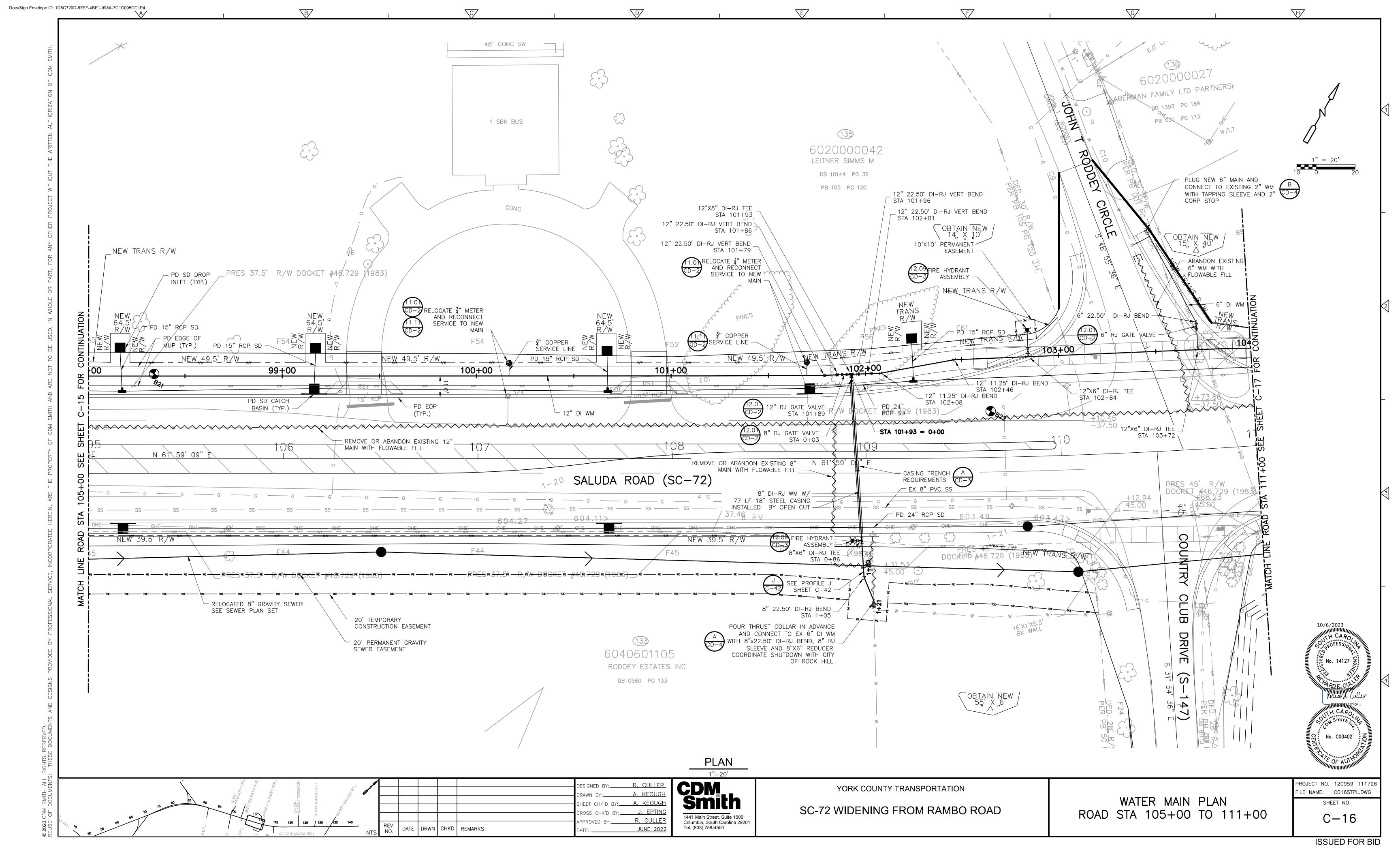


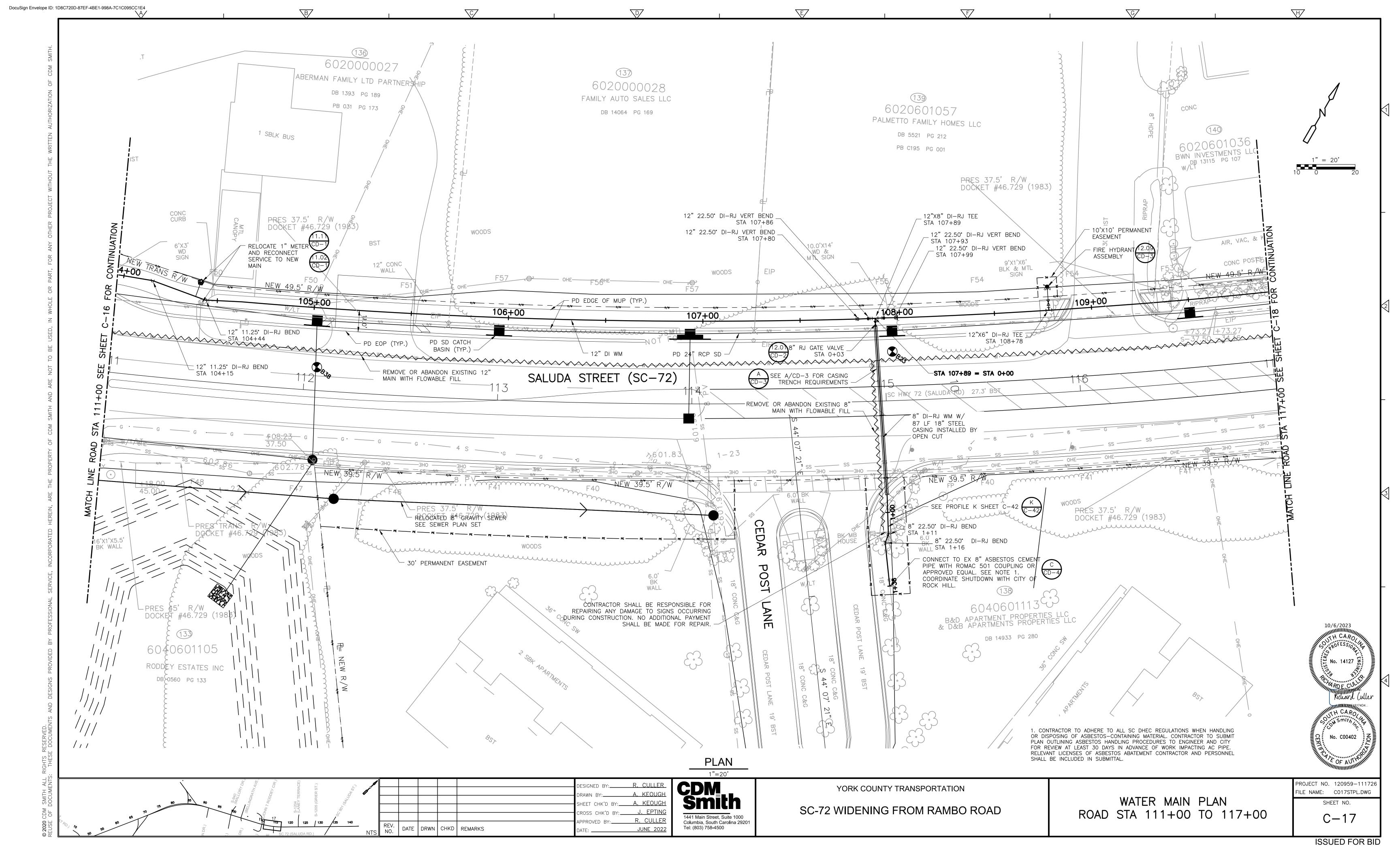


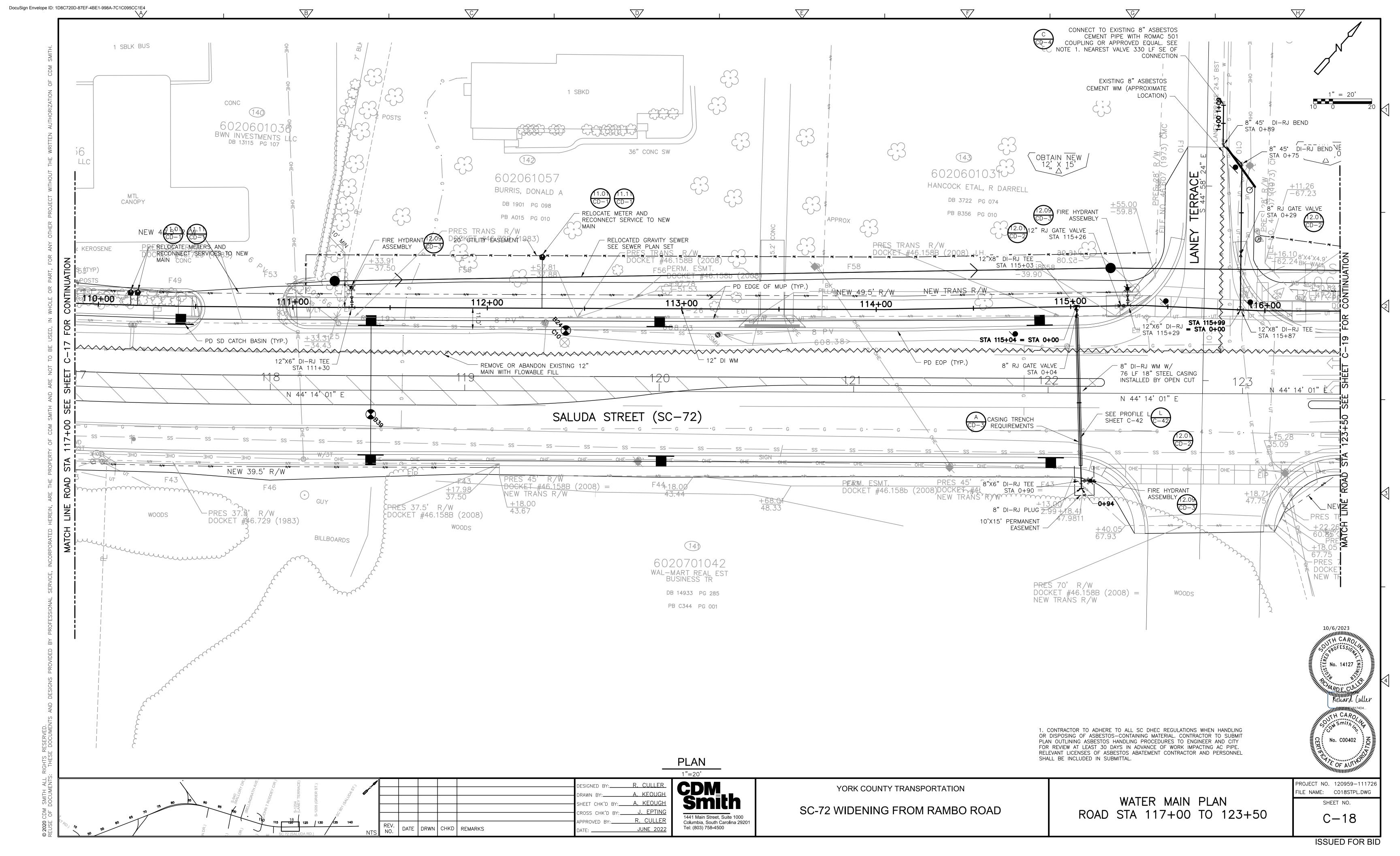


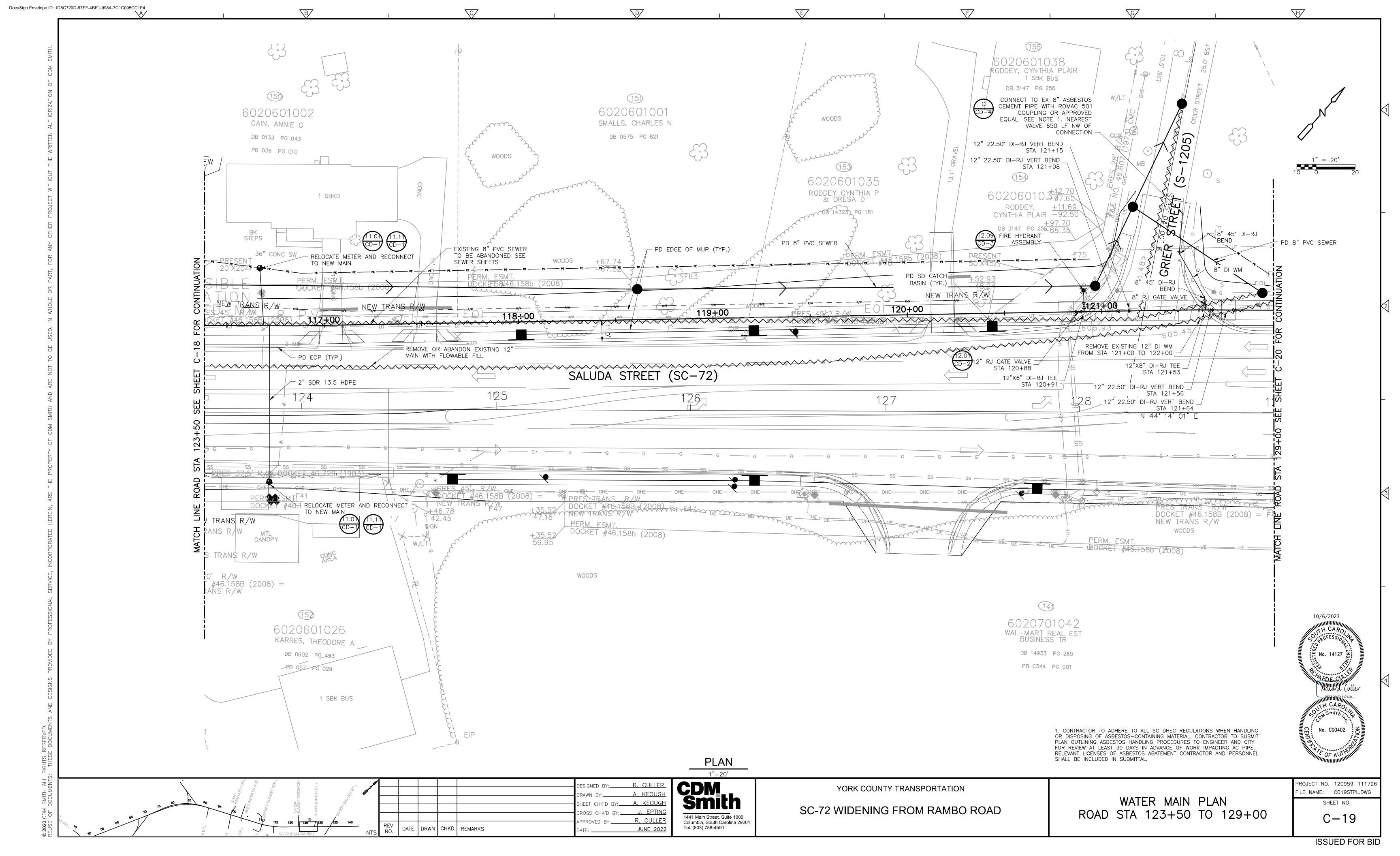


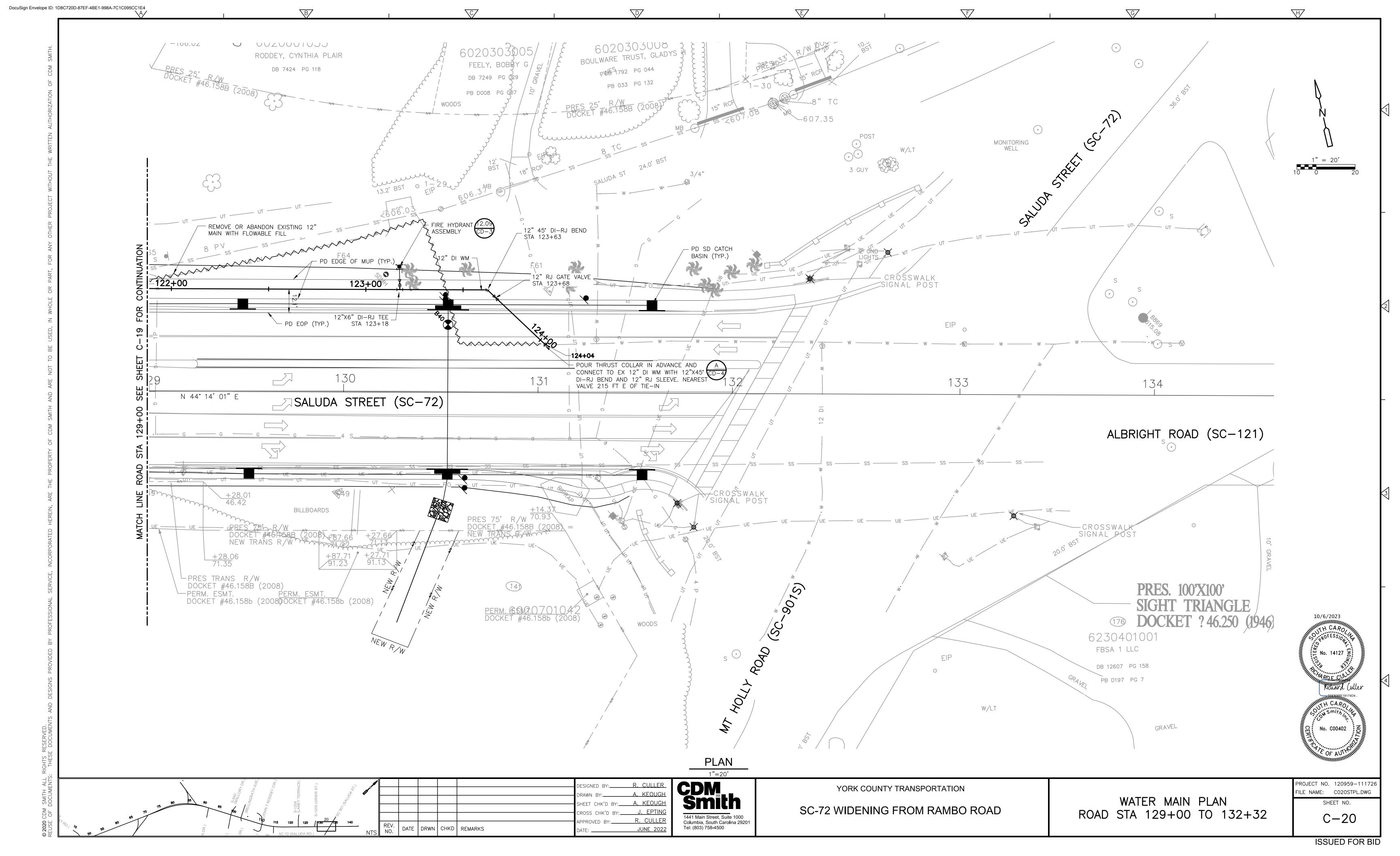


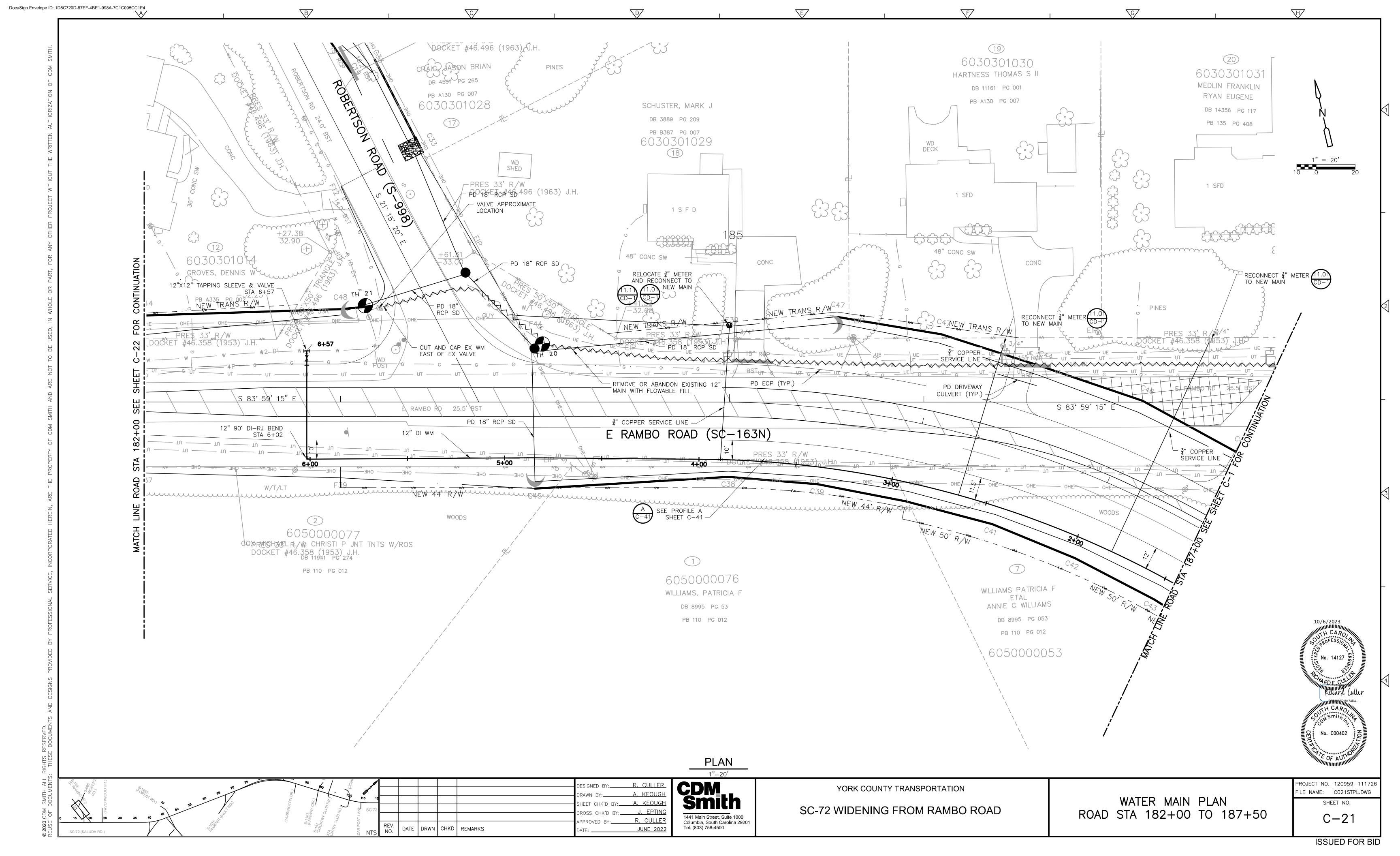


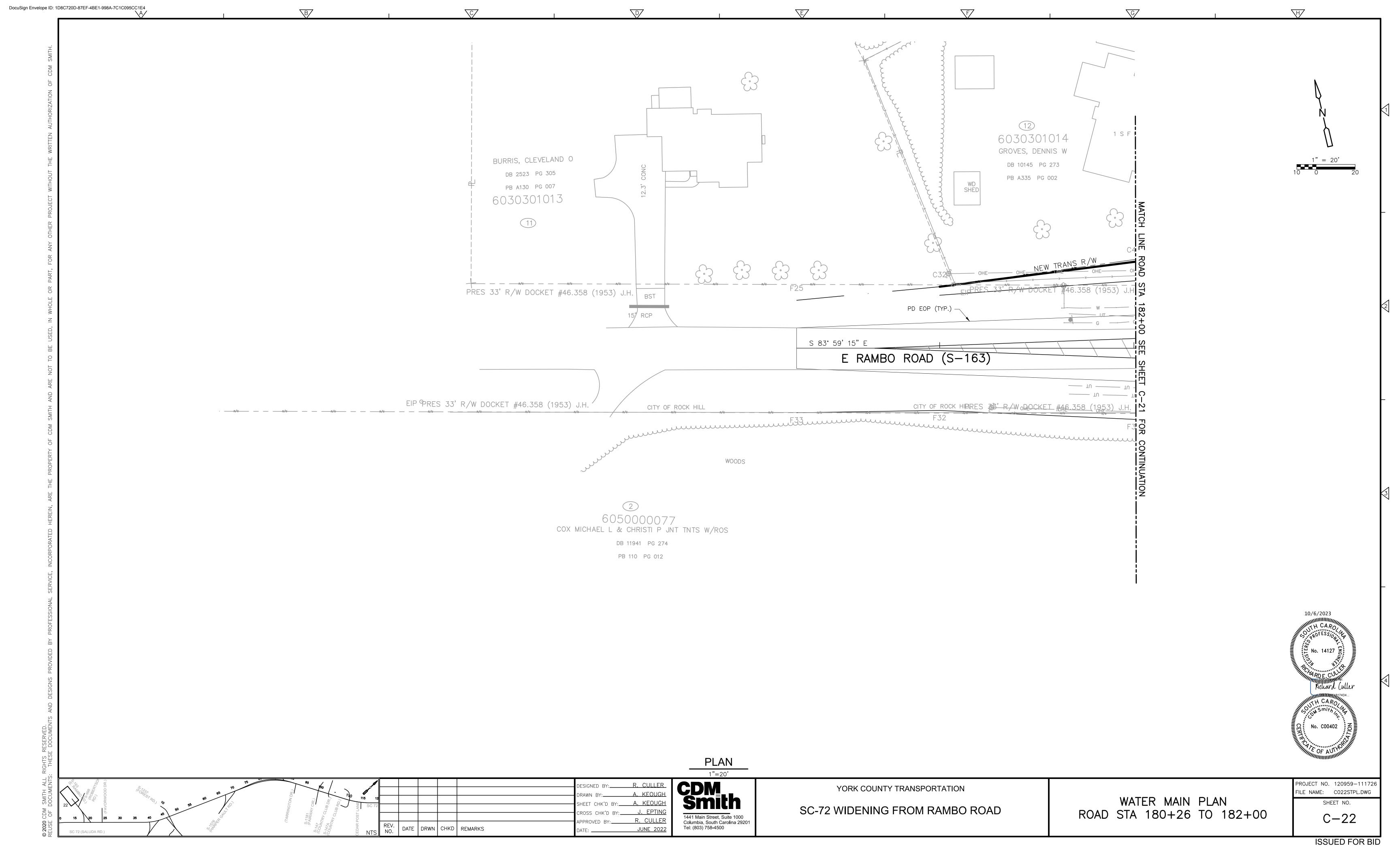


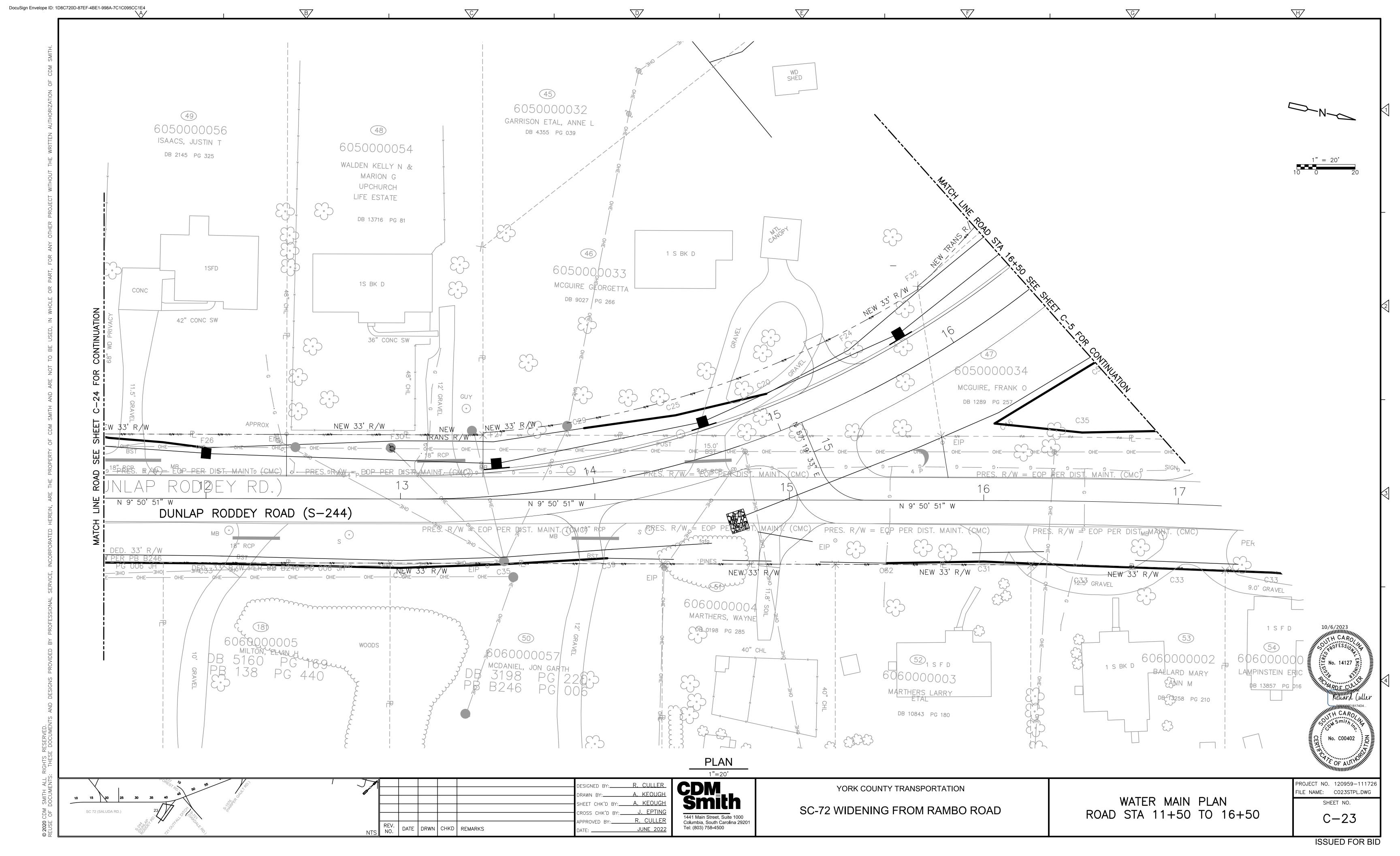


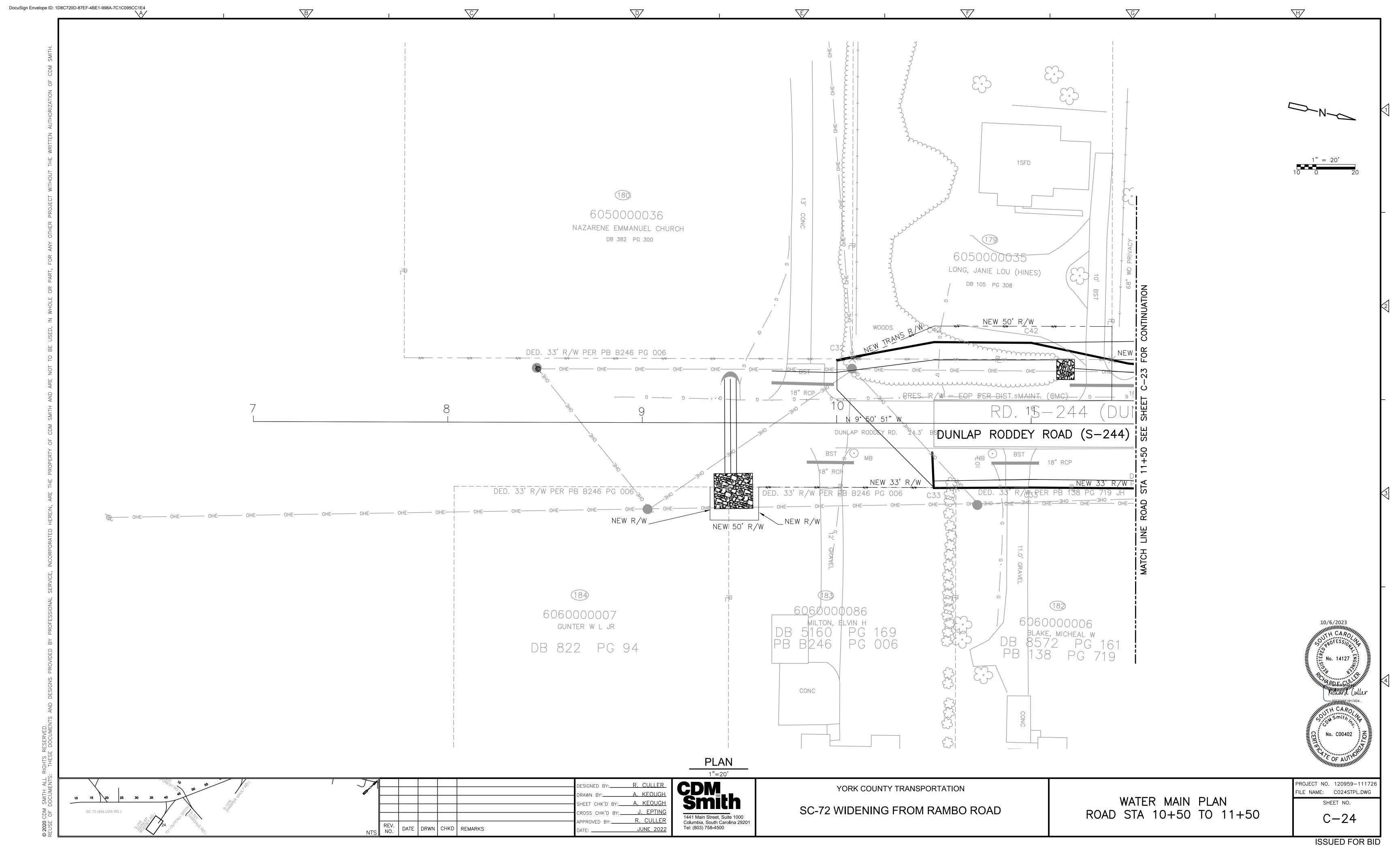


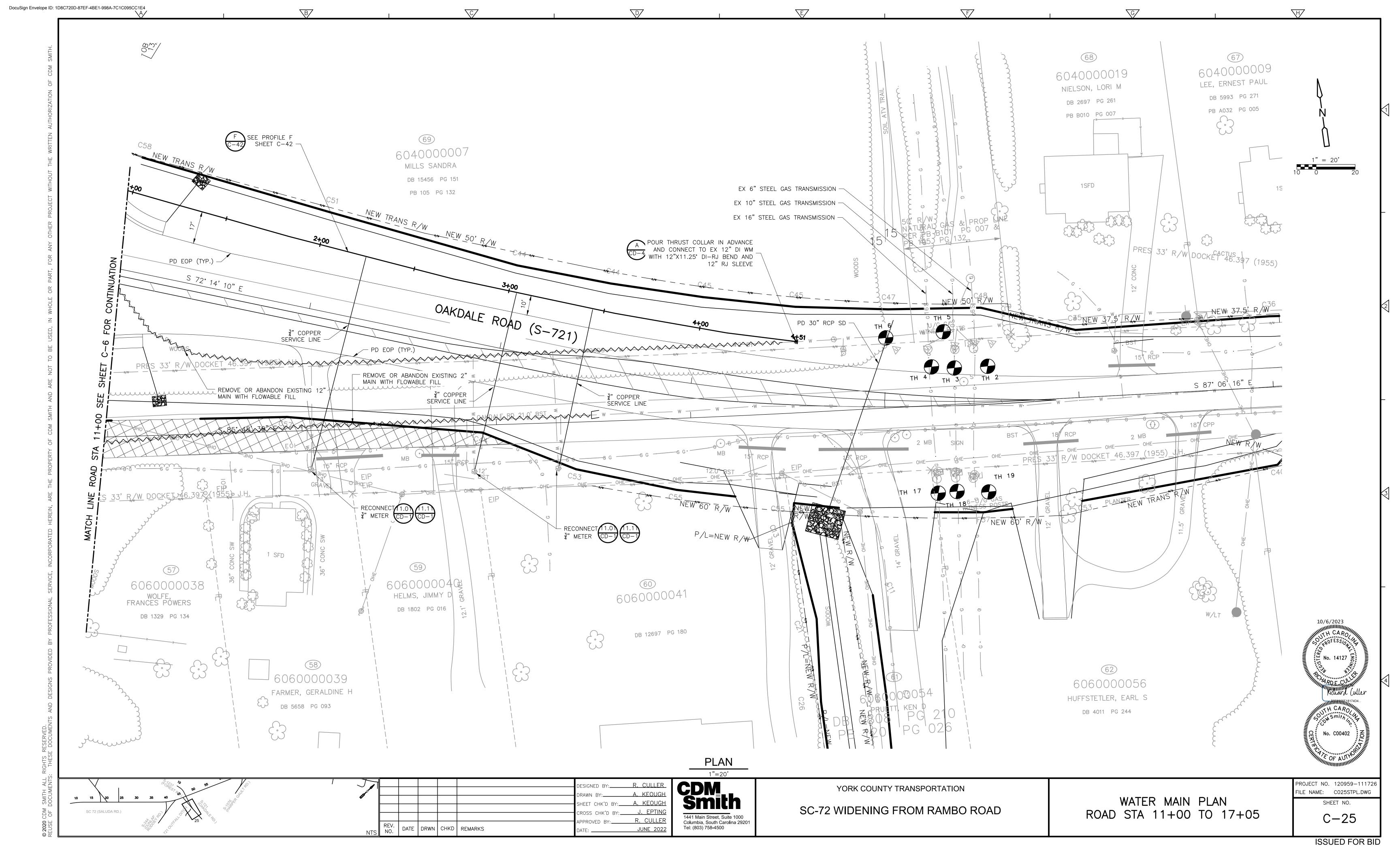


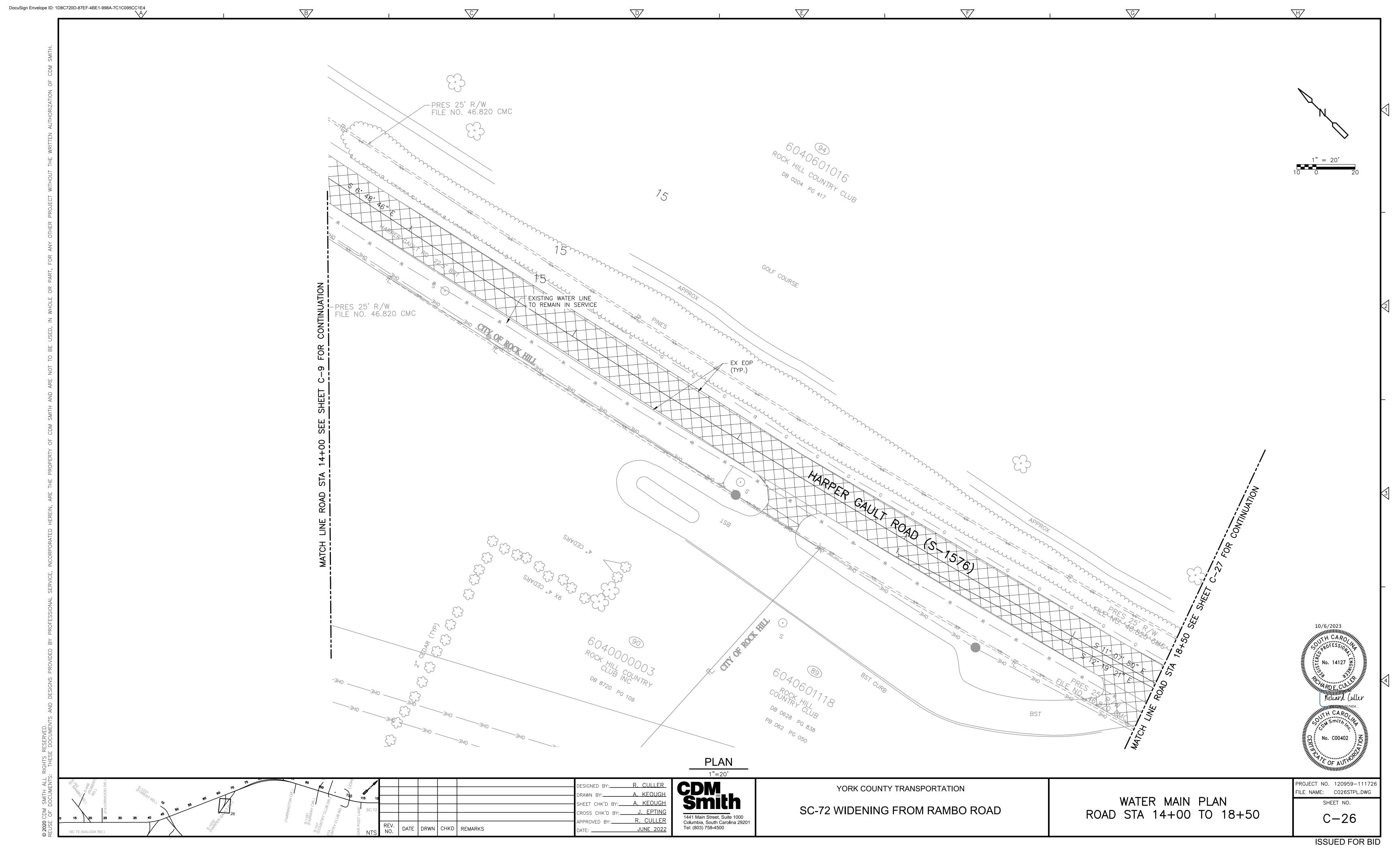


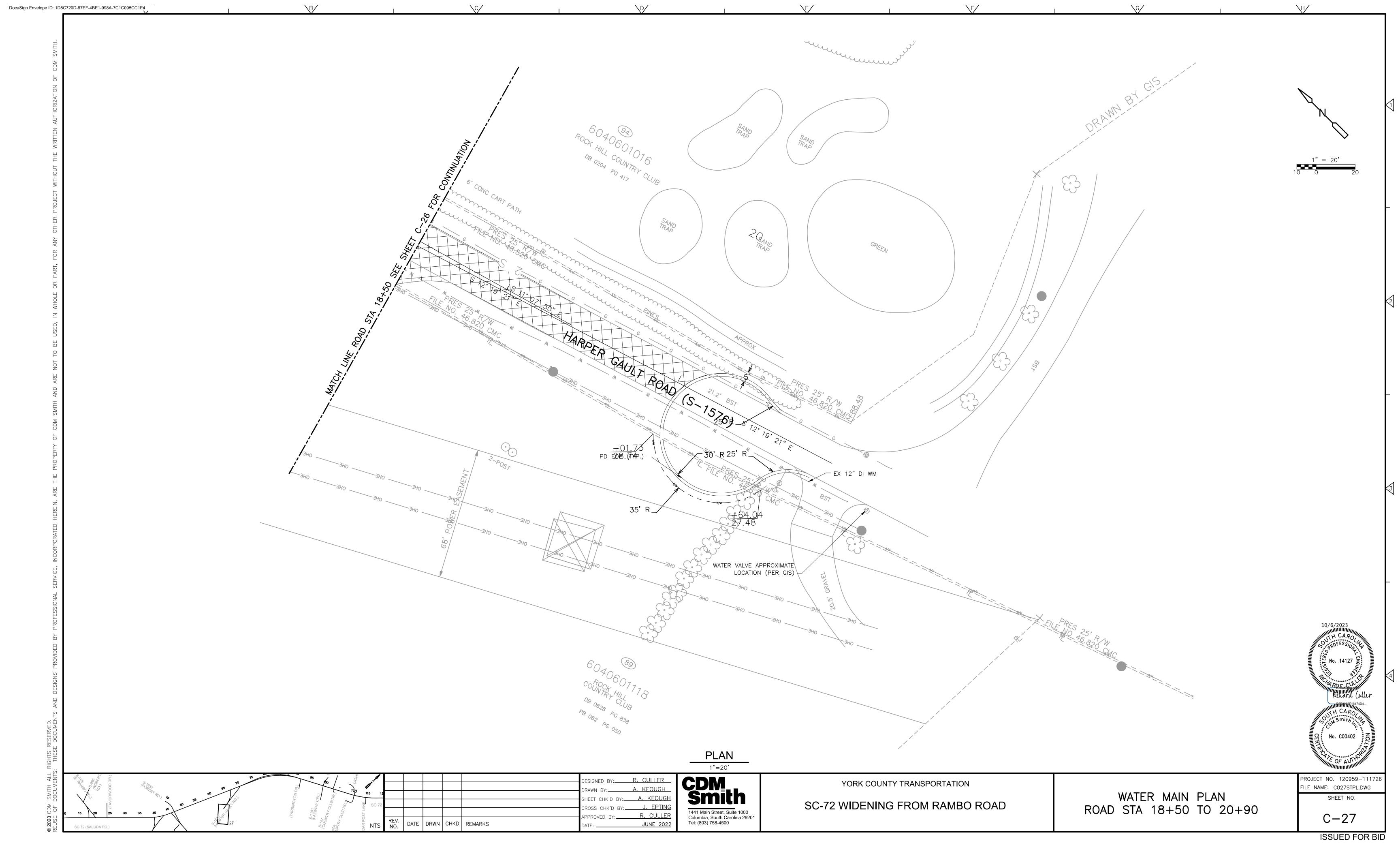


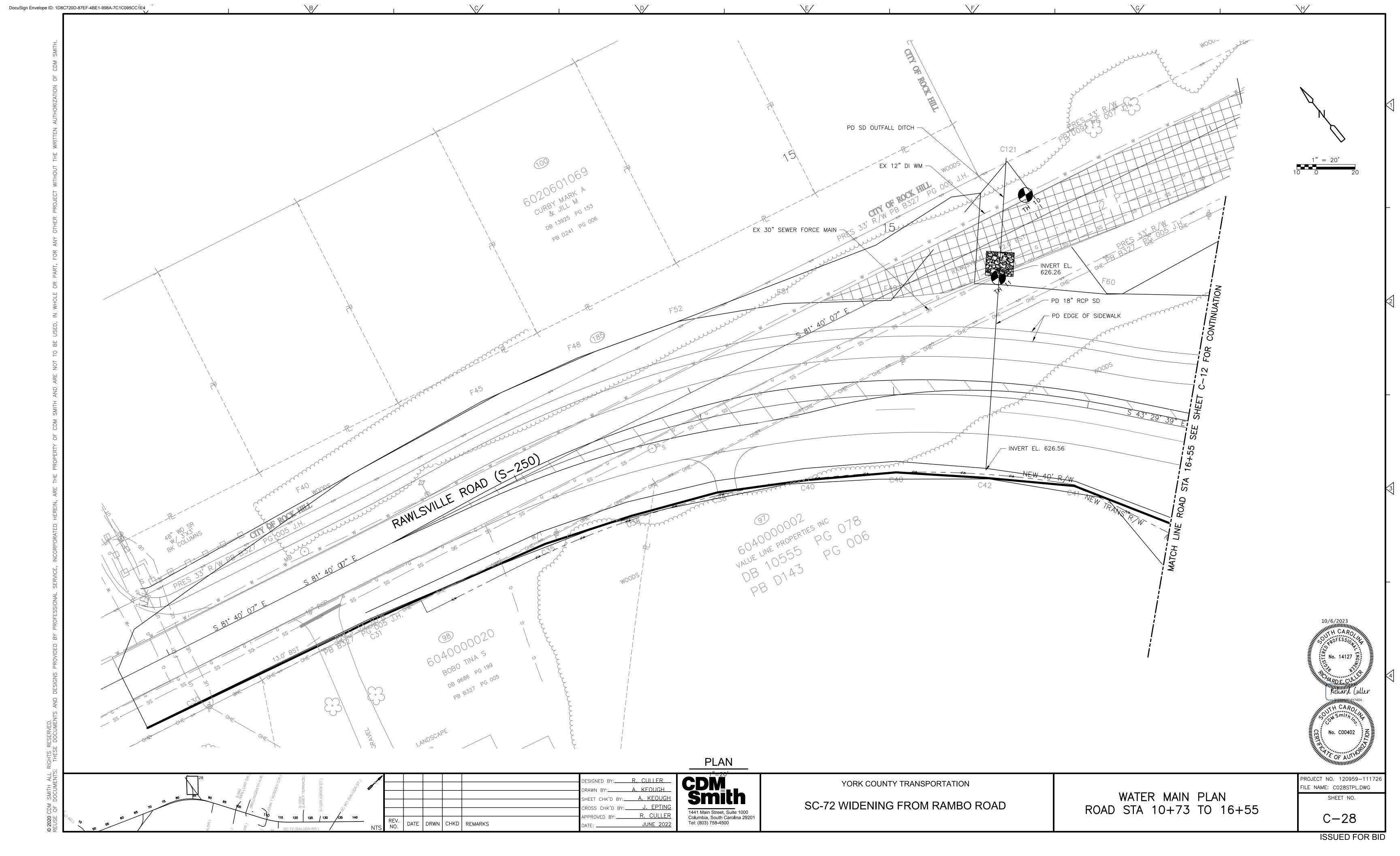


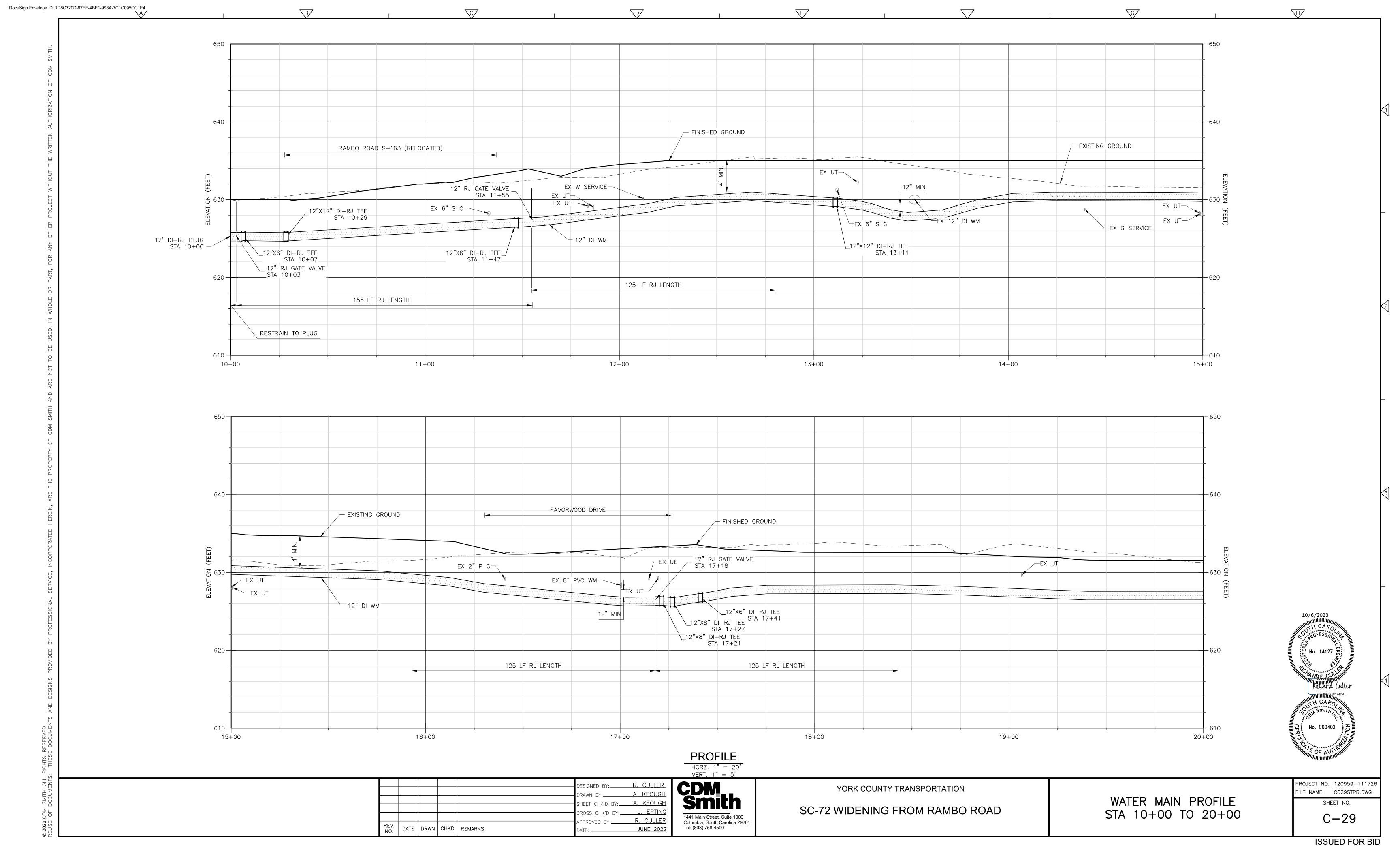


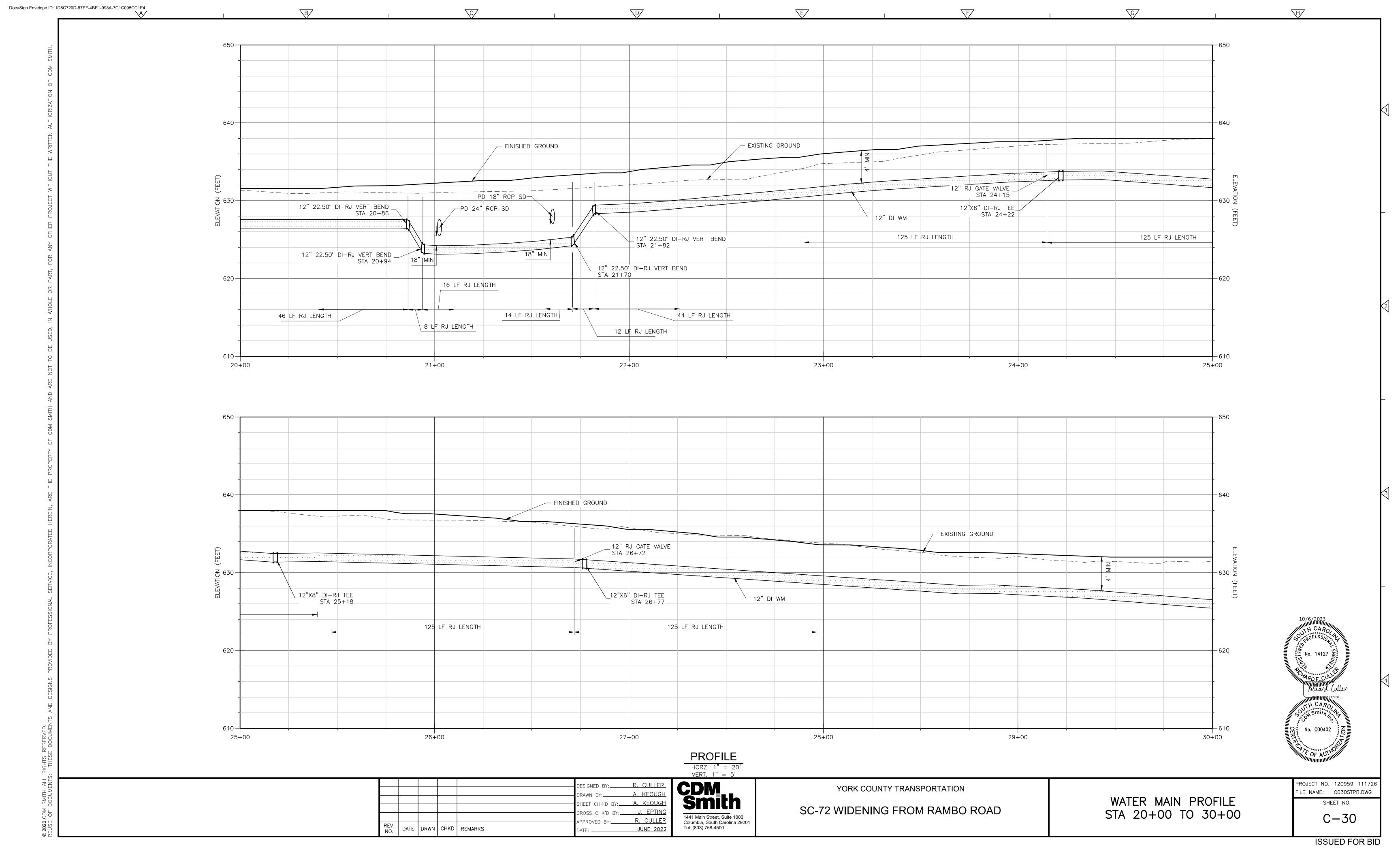


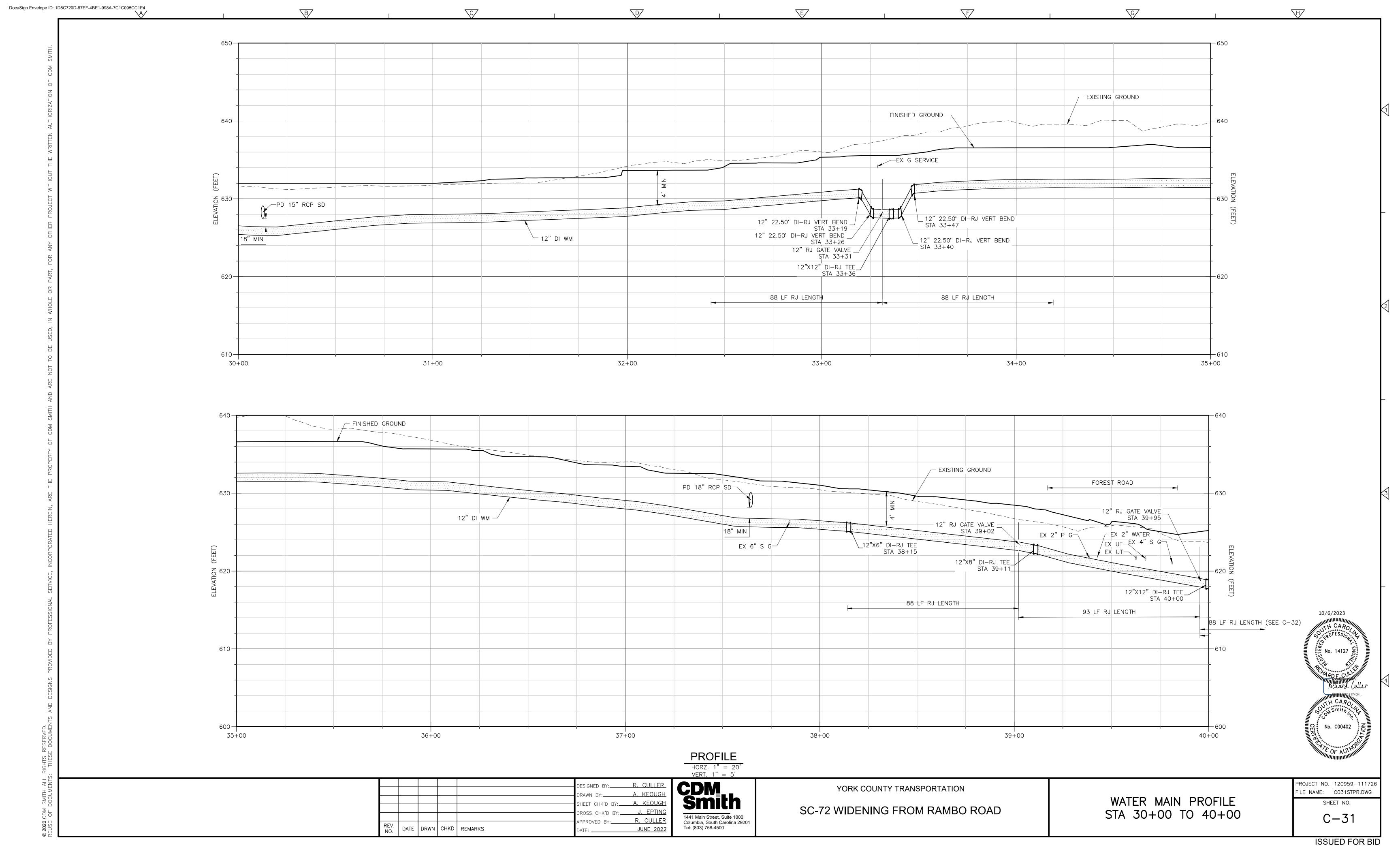


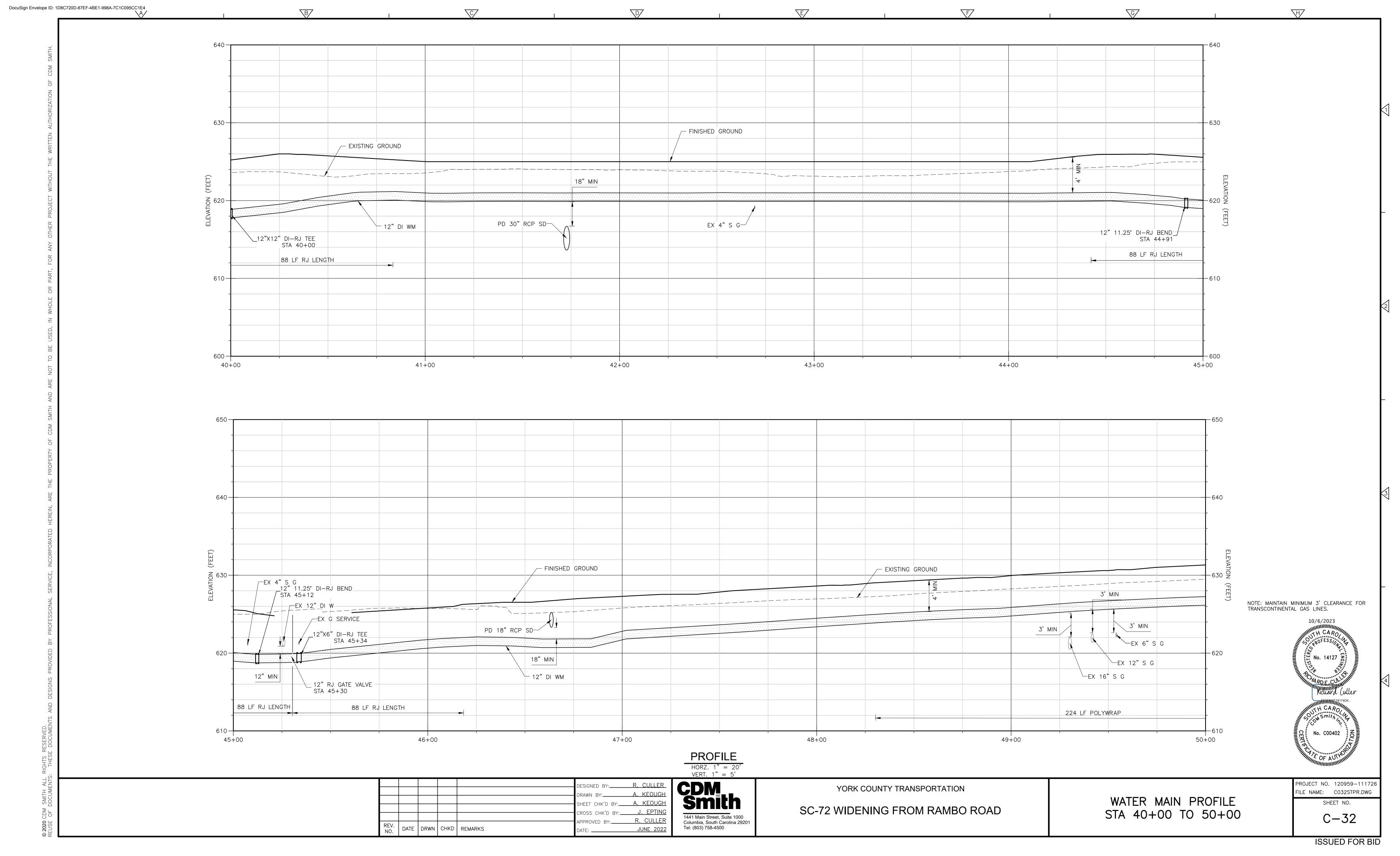


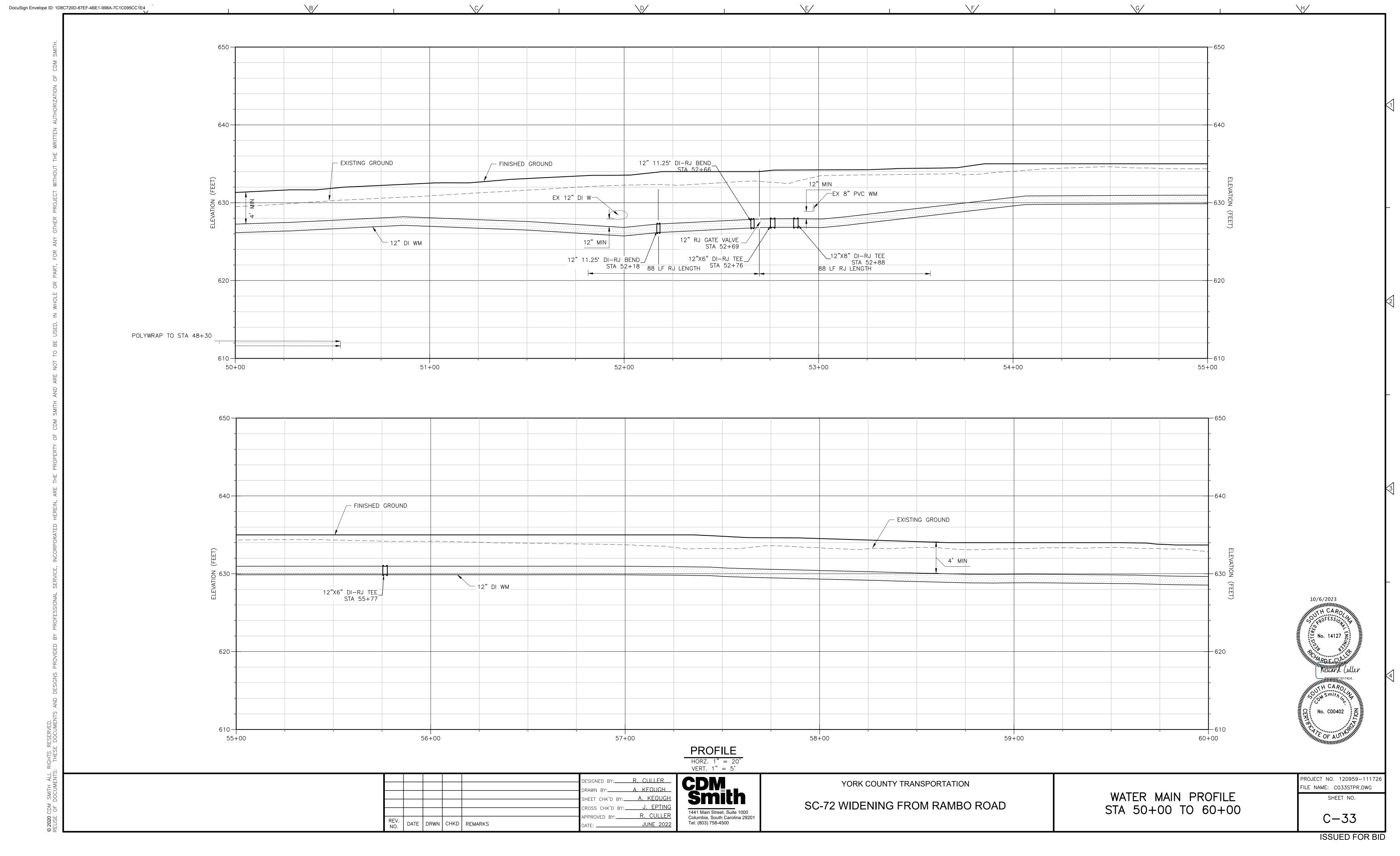


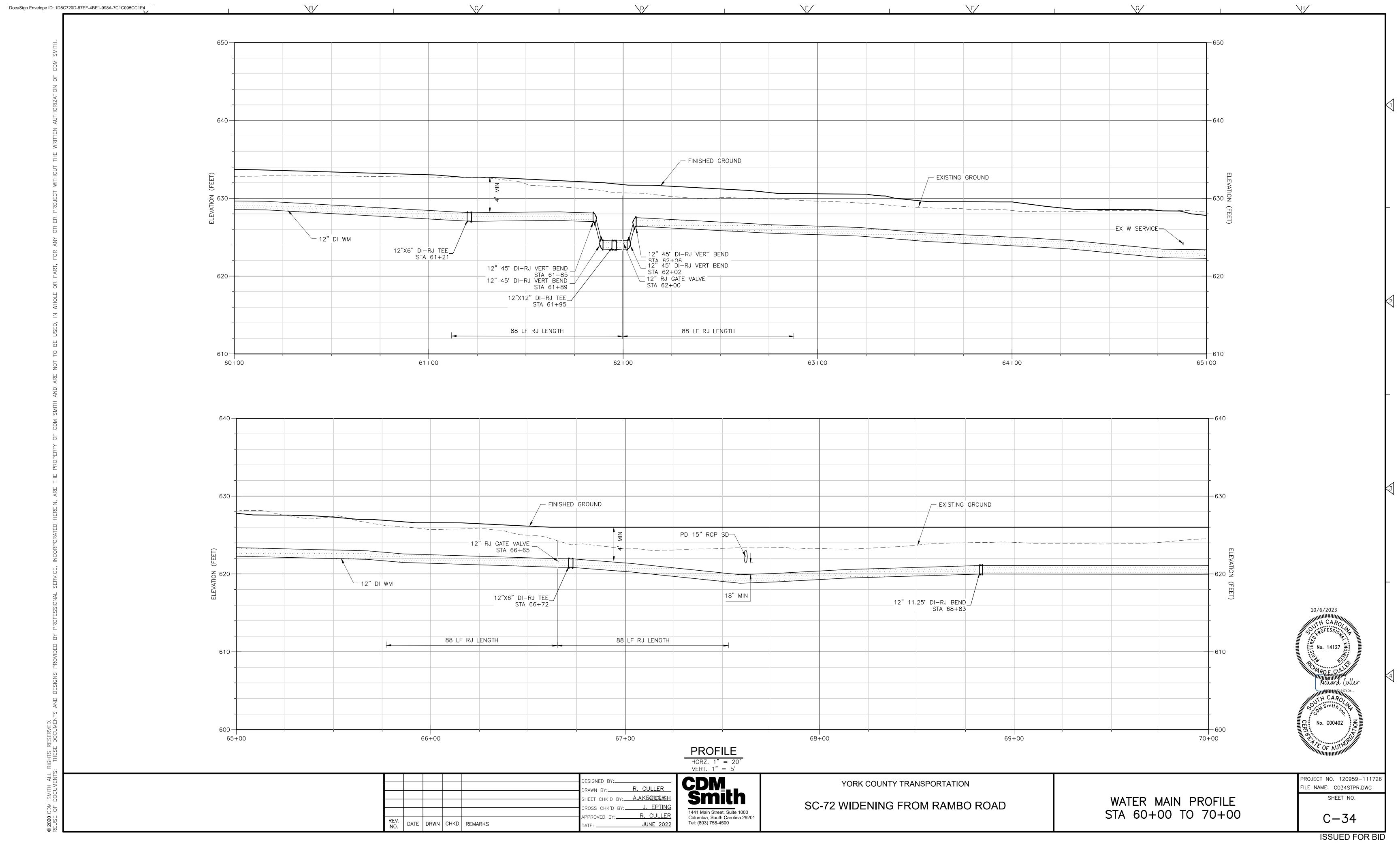


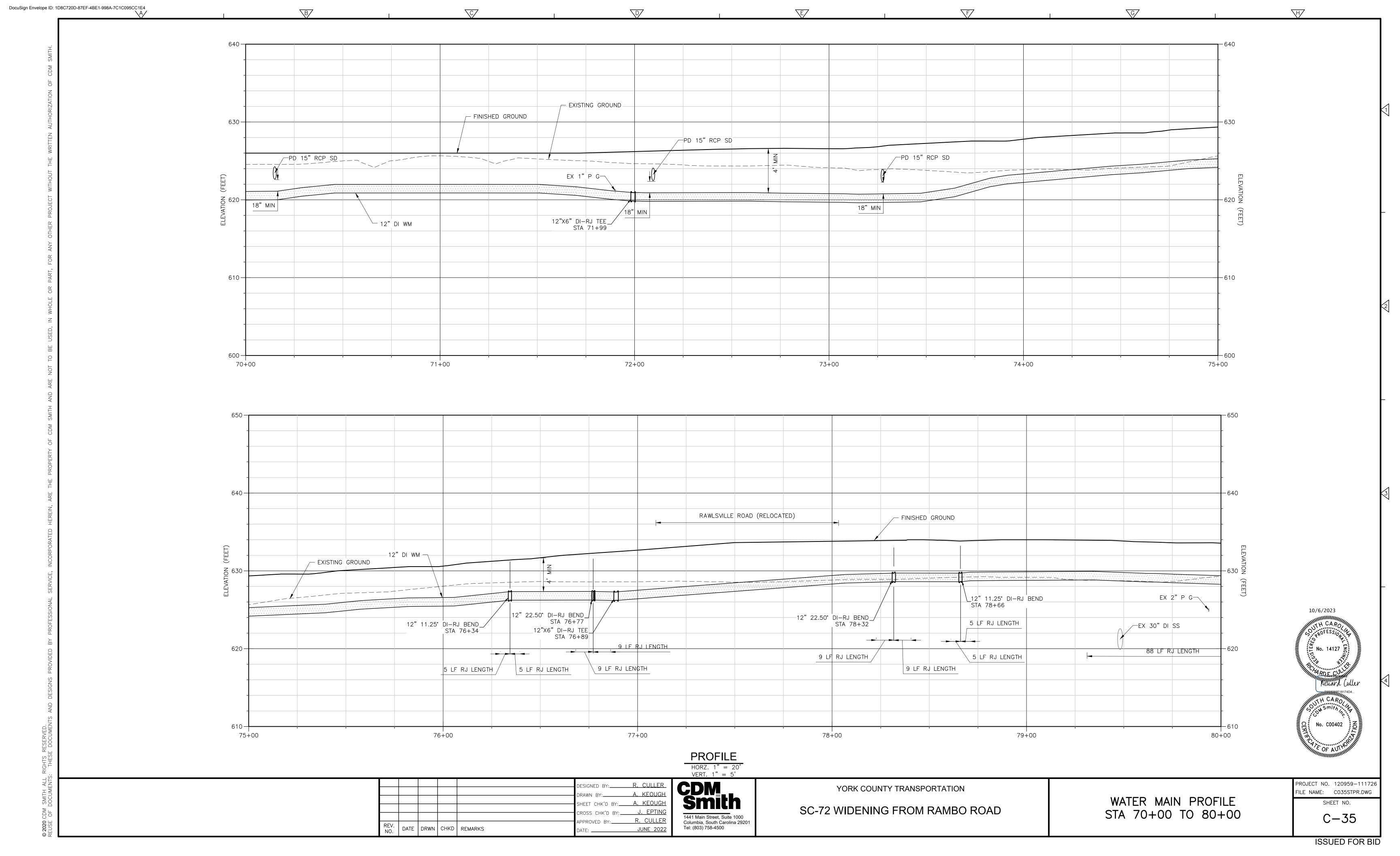


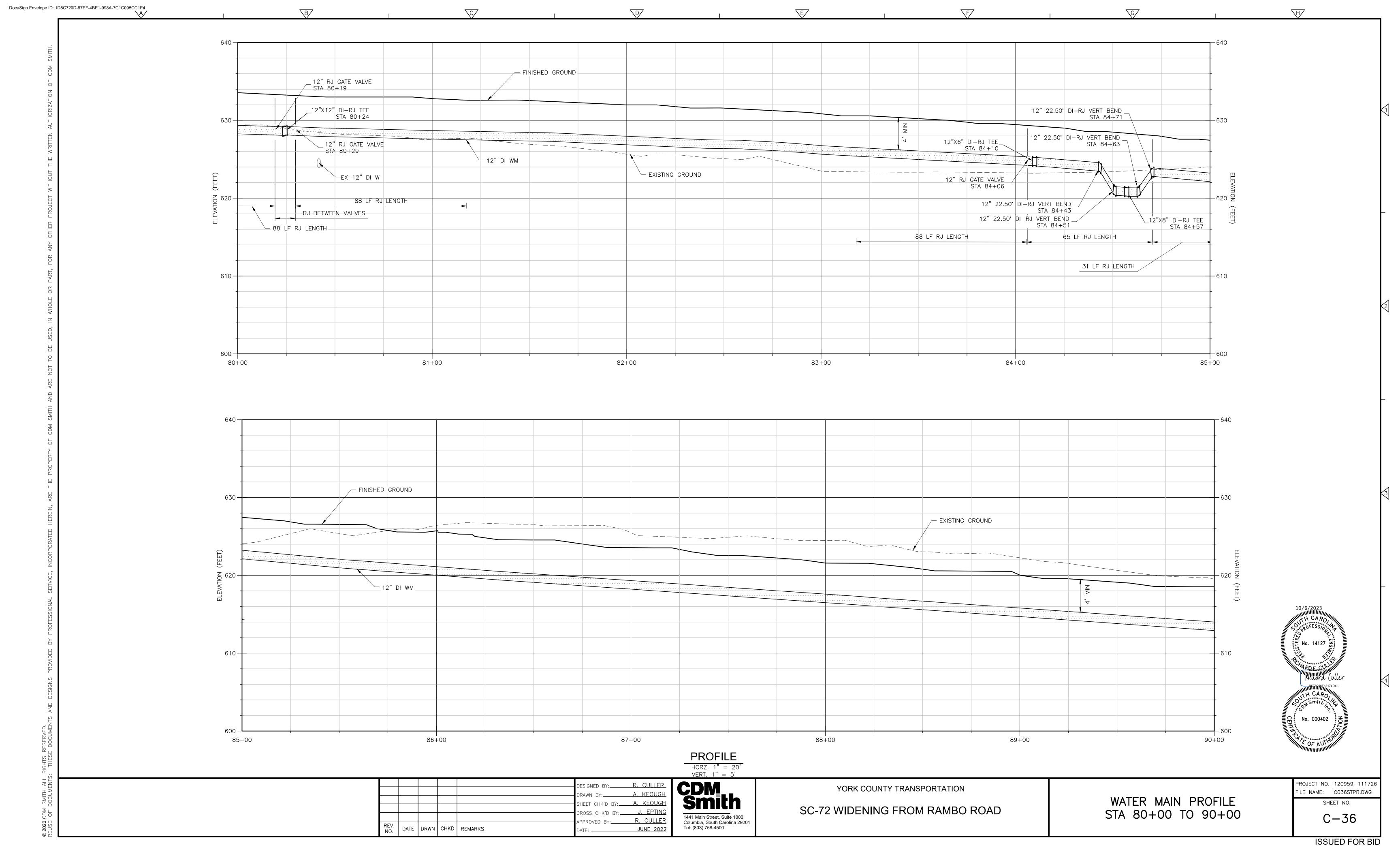


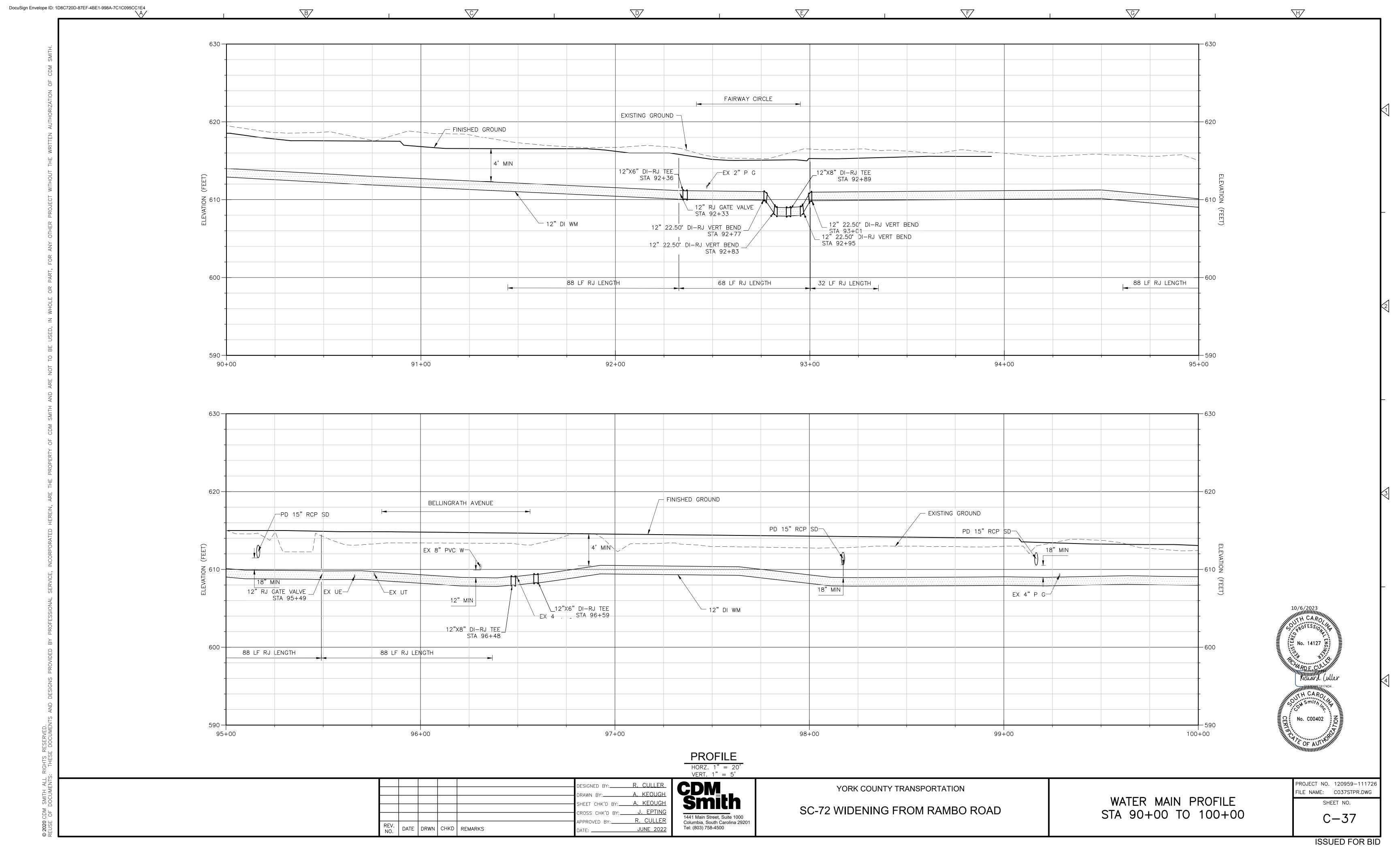


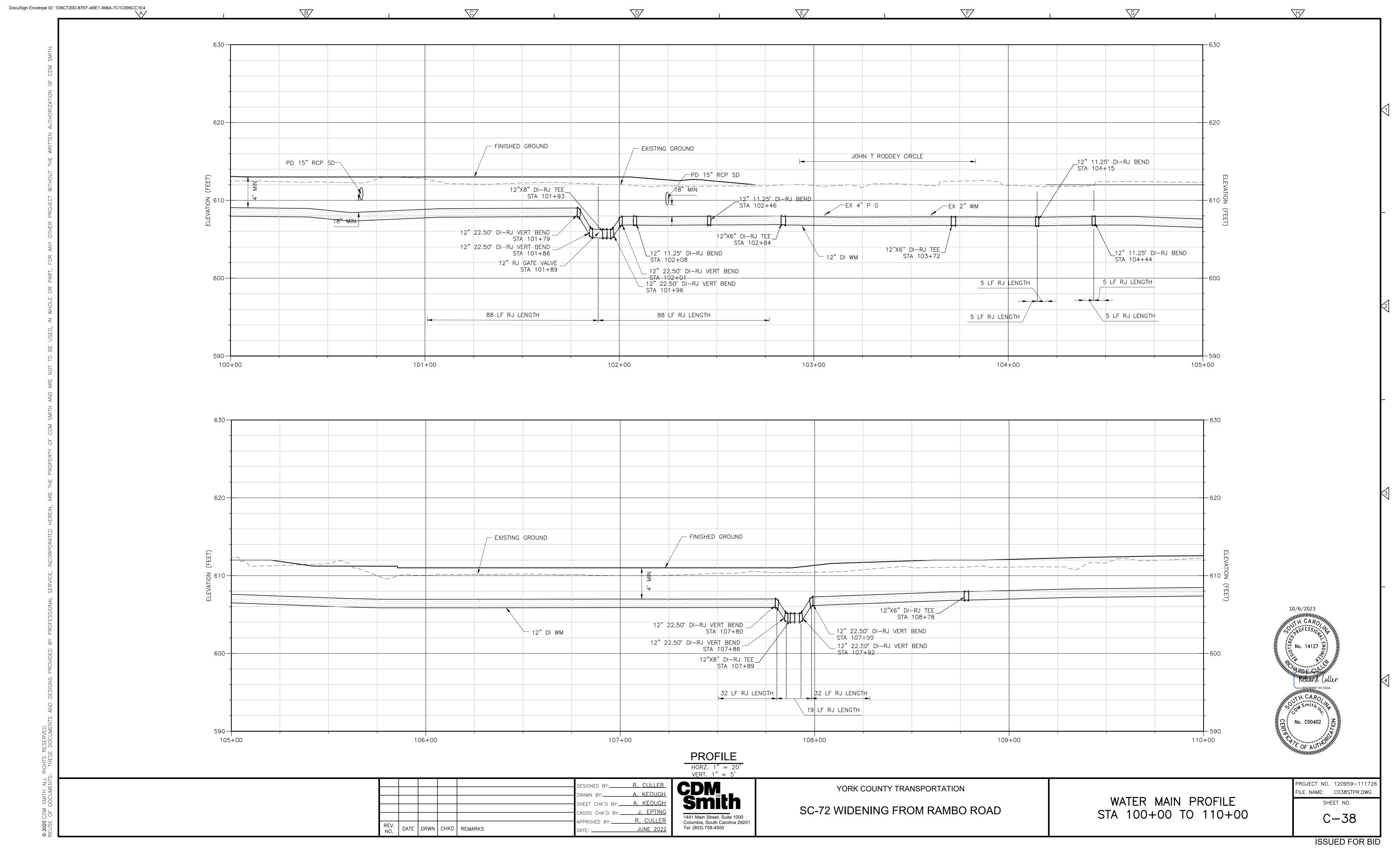


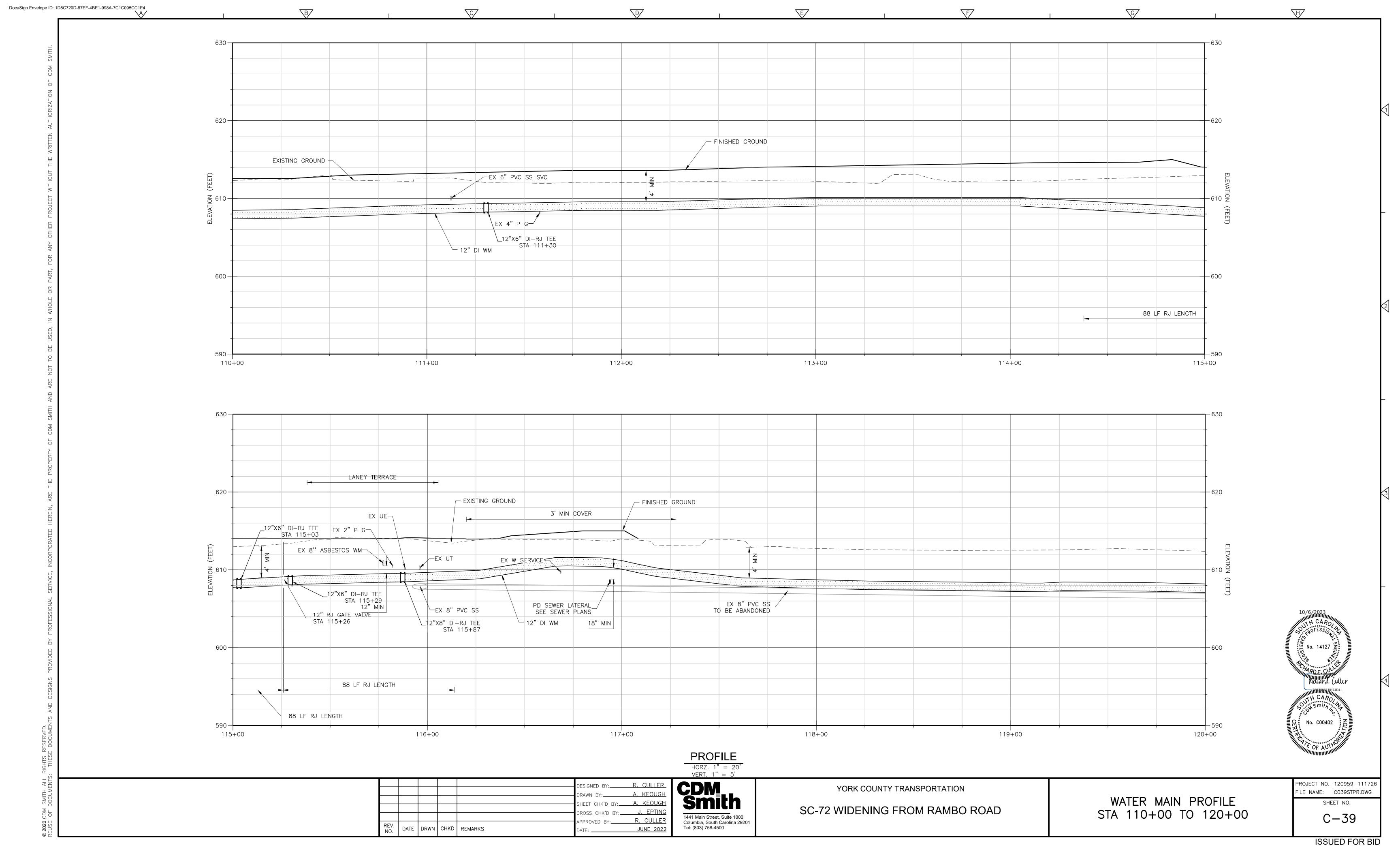


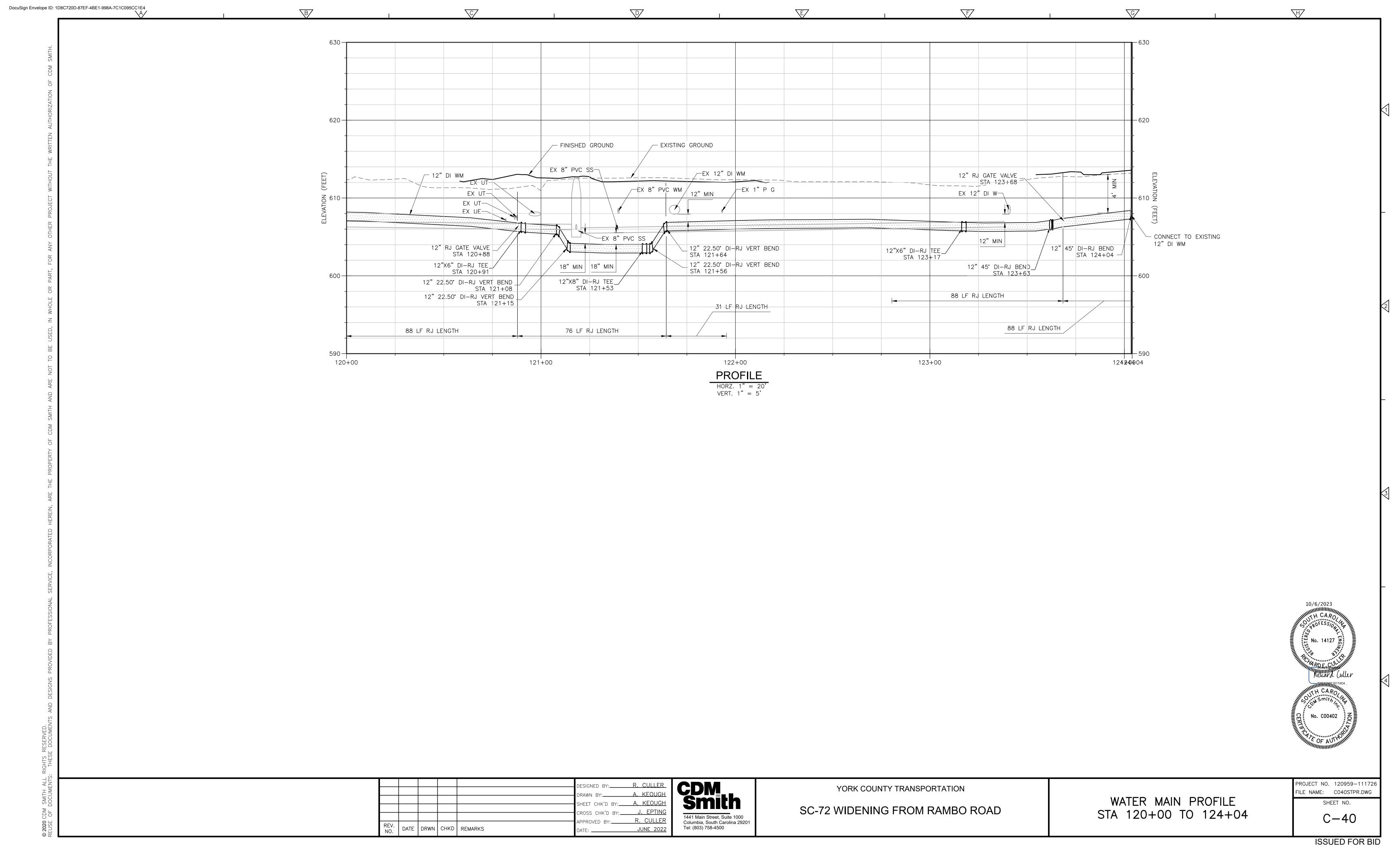


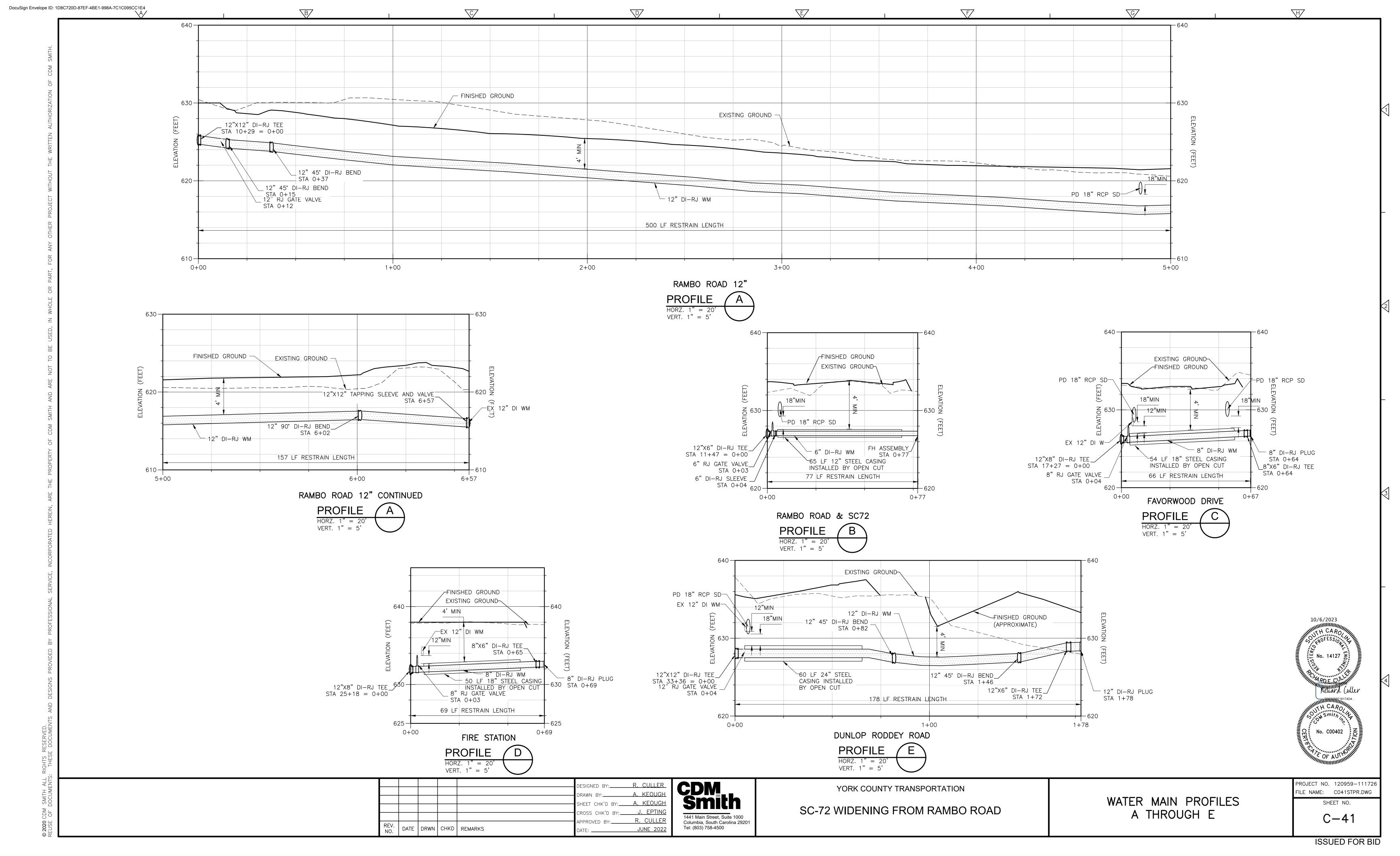


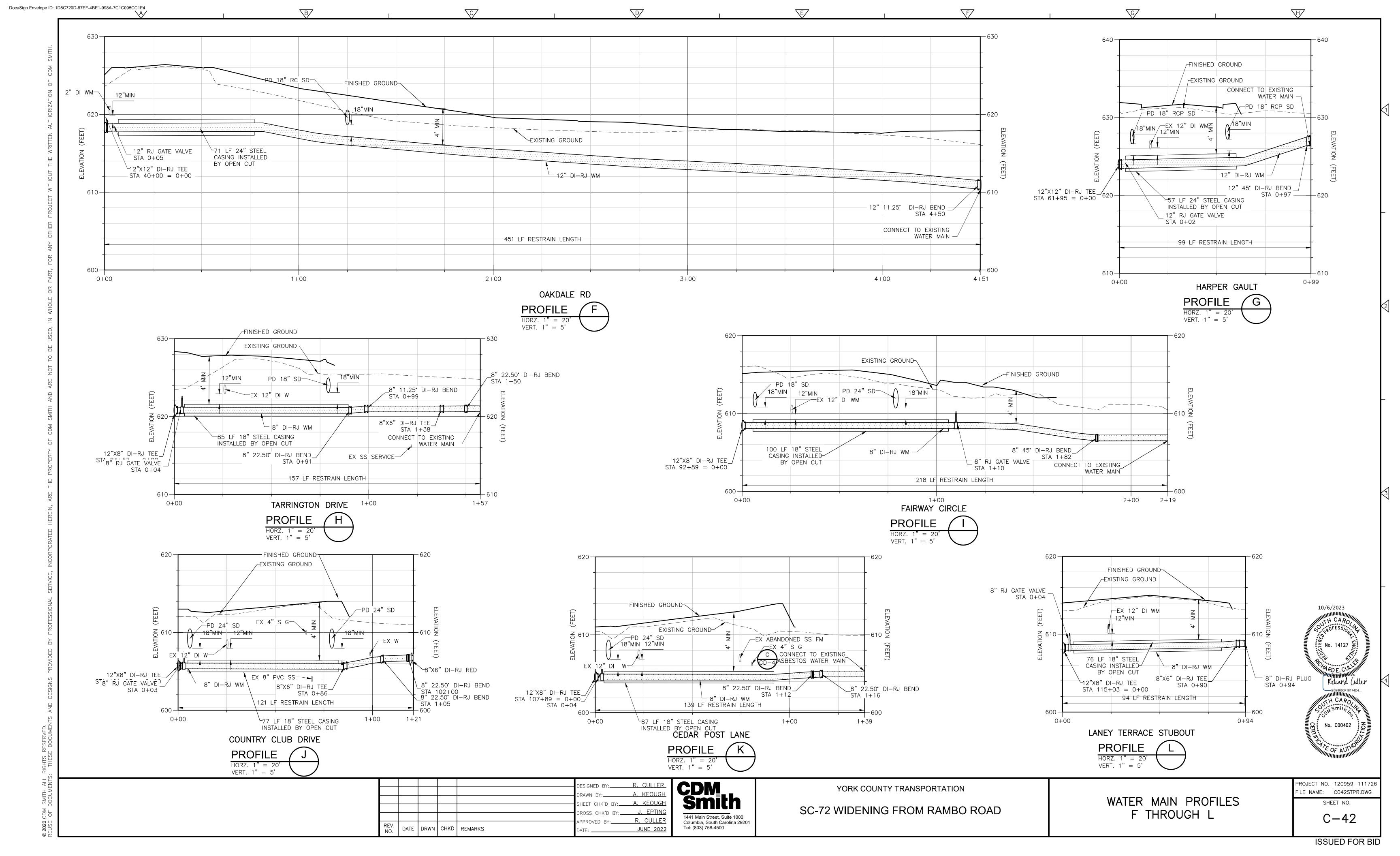


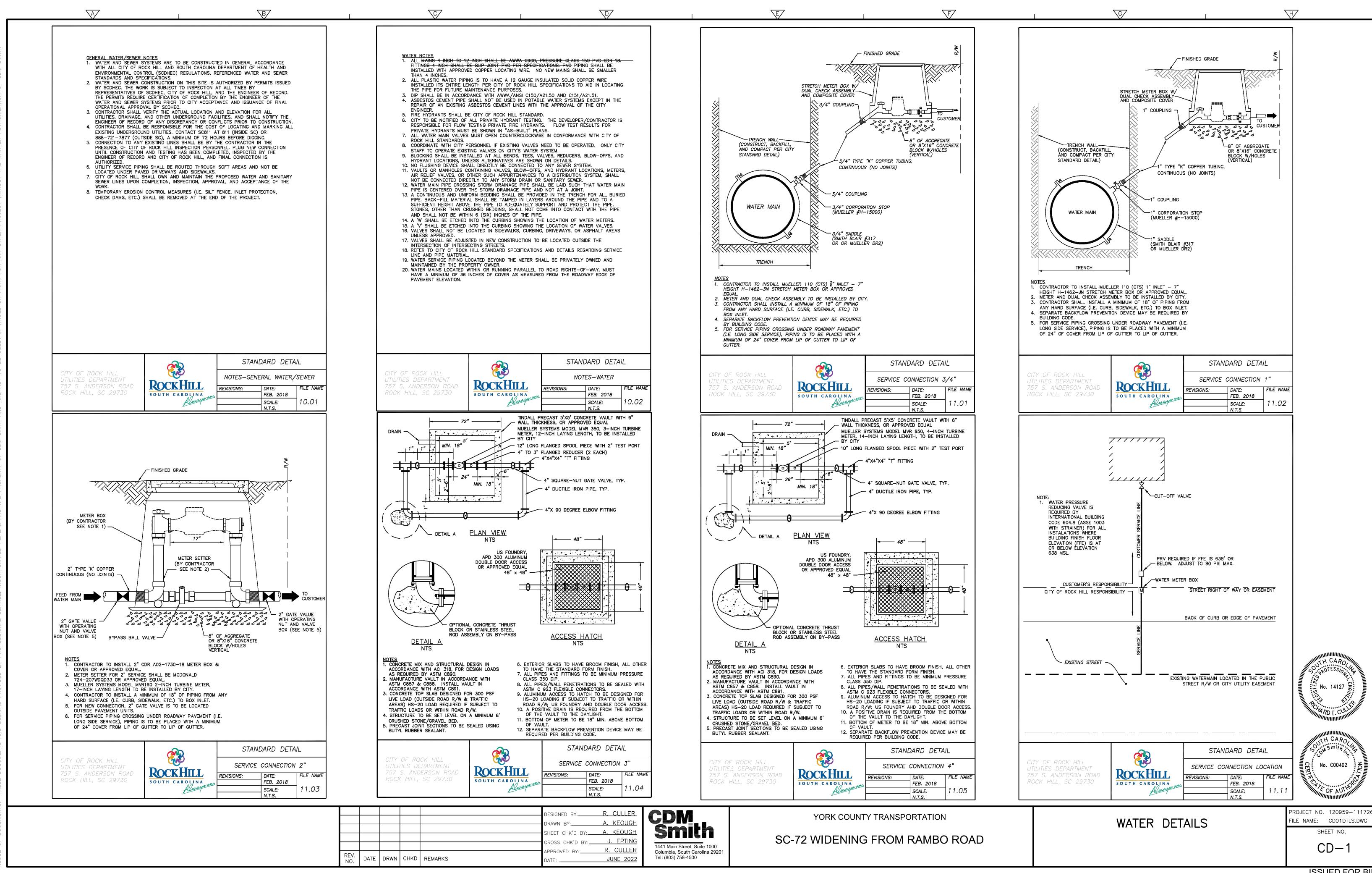


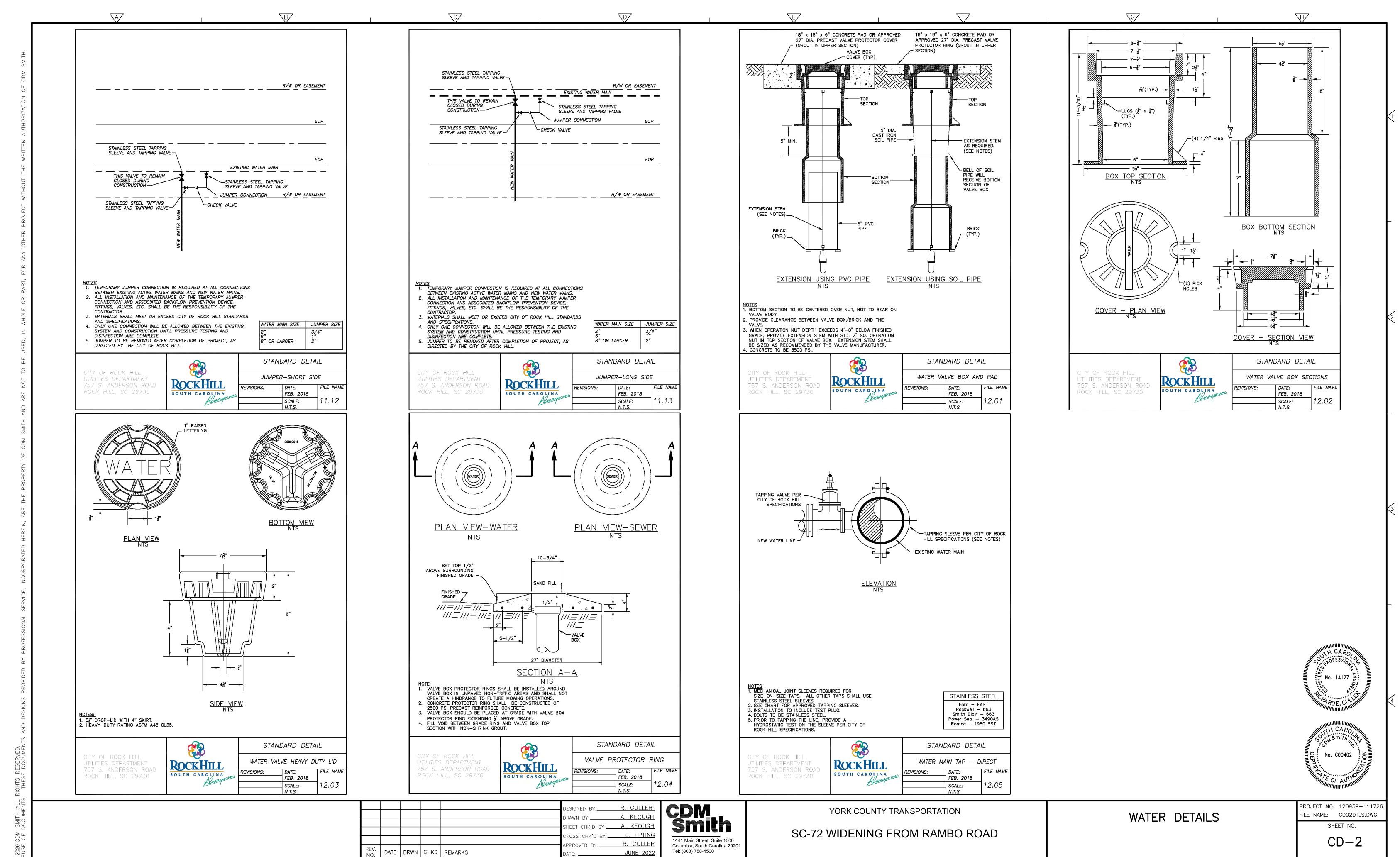


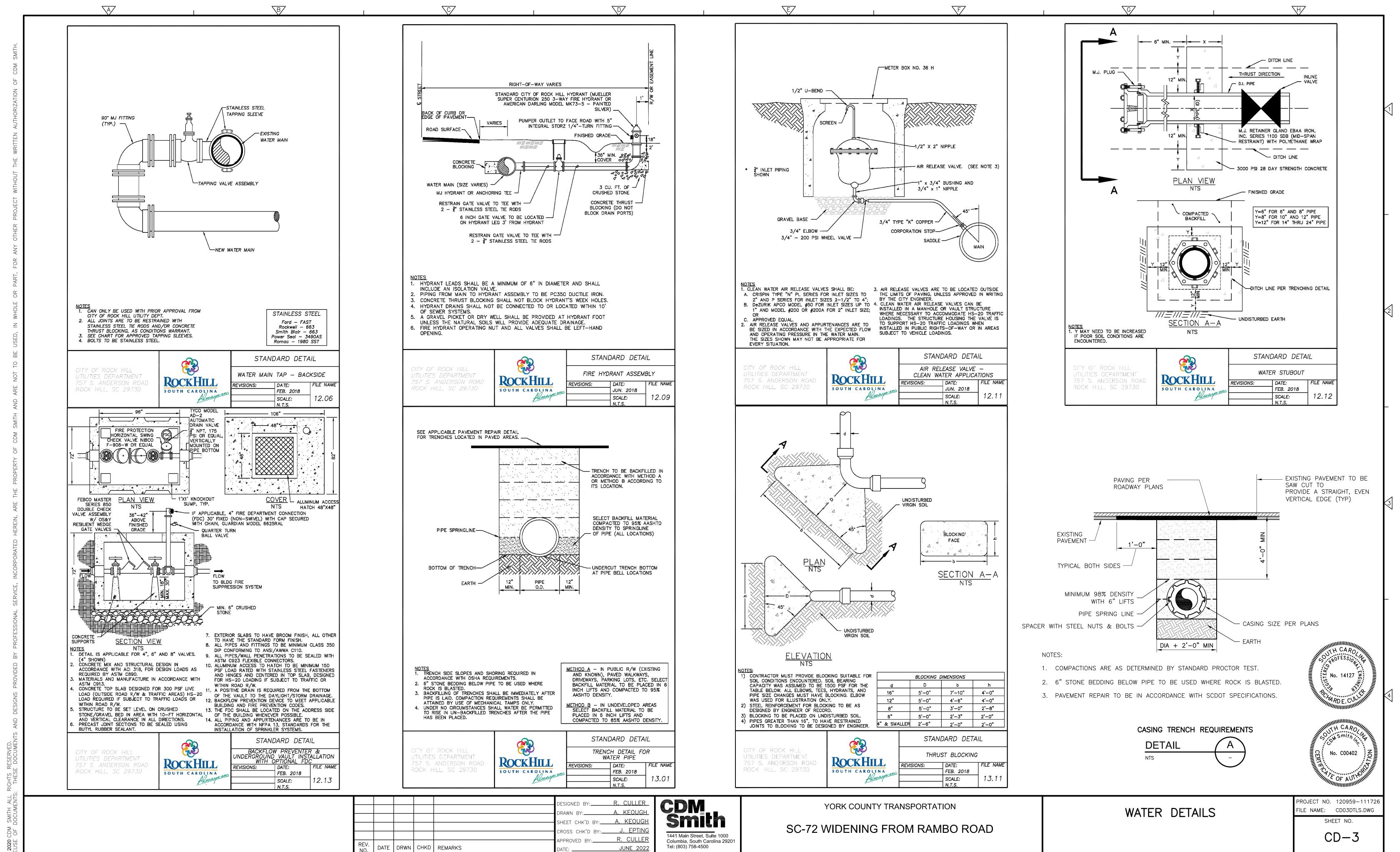








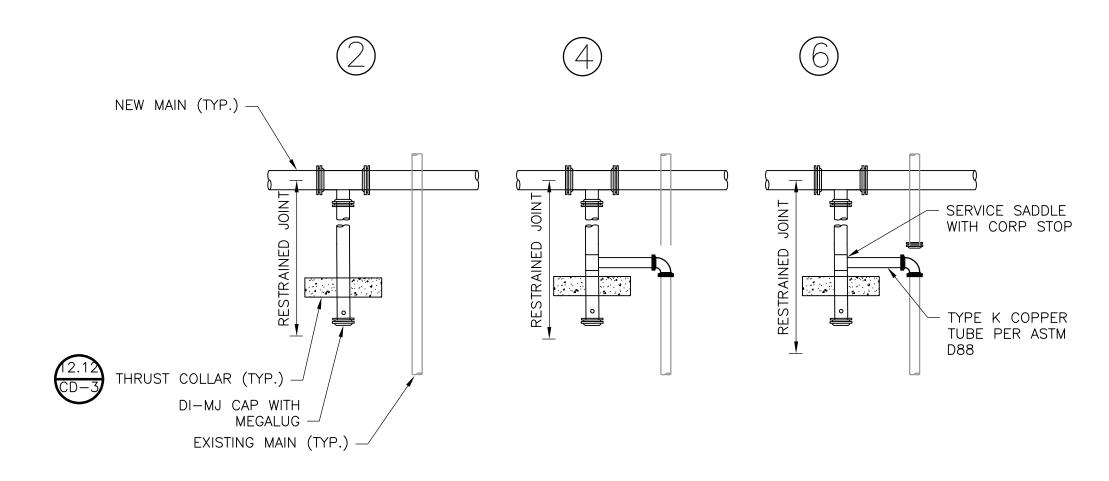




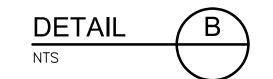
6" AND GREATER CONNECTIONS

DETAIL A

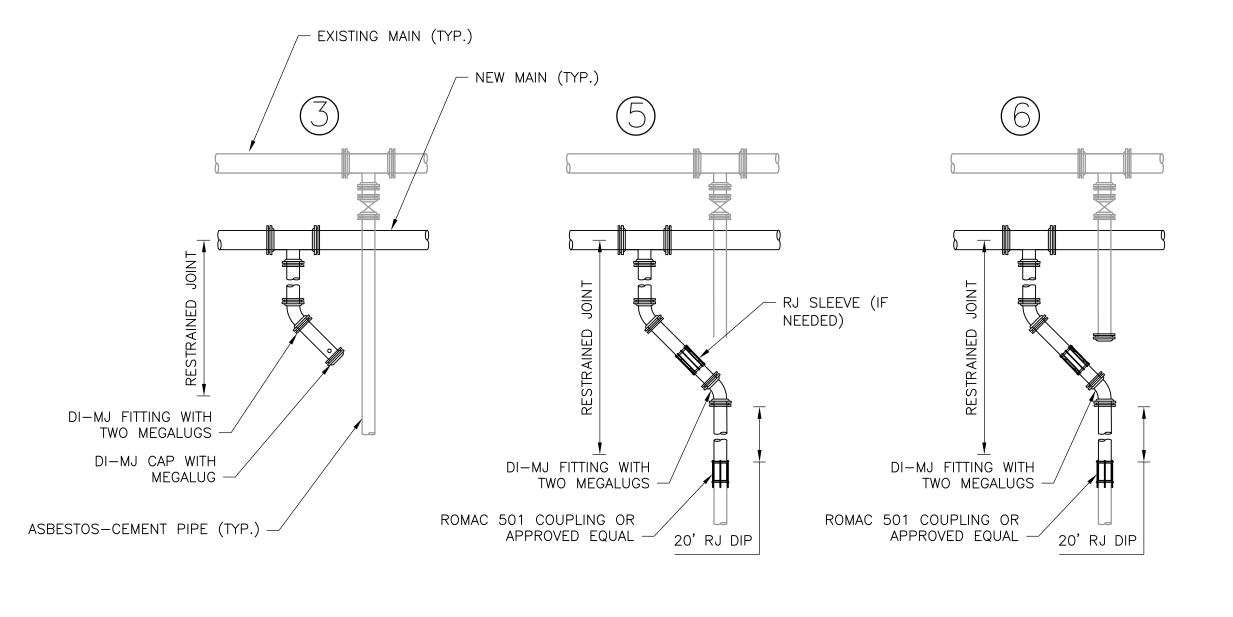
- 1. EXPOSE EXISTING PIPE TO CONFIRM EXISTING PIPE SIZE, MATERIAL AND CONNECTION METHOD. IF CONDITIONS ARE DISCOVERED THAT REQUIRE CHANGES TO CONNECTION METHOD, OBTAIN APPROVAL FROM CITY OF ROCK HILL PRIOR TO EXECUTING CONNECTION.
- 2. INSTALL NEW MAIN UP TO EXISTING MAIN, LEAVING ADEQUATE ROOM TO MAKE CONNECTION. ALL PIPE FROM 12" TEE TO CONNECTION SHALL BE RESTRAINED JOINT. CAP NEW MAIN AND PERFORM PRESSURE TESTING AND DISINFECTION. A TEMPORARY BLOWOFF IS TO BE INSTALLED FOR SAMPLING AND FLUSHING.
- 3. UNCOVER EXISTING PIPE AND POUR CONCRETE THRUST COLLAR IN ADVANCE OF TIE-IN.
- 4. COORDINATE EXISTING MAIN SHUTDOWN METHOD WITH CITY. CITY PERSONNEL ARE TO OPERATE ALL VALVES.
- 5. ONCE EXISTING MAIN HAS BEEN SHUT DOWN, CUT INTO EXISTING PIPE AND CONNECT WITH FITTING AND MEGALUG, USING SLEEVE IF NECESSARY.
- 6. CAP EXISTING MAIN AND ABANDON PER PLANS



CONNECTION TO LINE LESS THAN 6"



- 1. EXPOSE EXISTING PIPE TO CONFIRM EXISTING PIPE SIZE, MATERIAL AND CONNECTION METHOD. IF CONDITIONS ARE DISCOVERED THAT REQUIRE CHANGES TO CONNECTION METHOD, OBTAIN APPROVAL FROM CITY OF ROCK HILL PRIOR TO EXECUTING CONNECTION.
- 2. INSTALL NEW MAIN UP TO EXISTING MAIN, LEAVING ADEQUATE ROOM TO MAKE CONNECTION. ALL PIPE FROM 12" TEE TO CONNECTION SHALL BE RESTRAINED JOINT. INSTALL THRUST COLLAR PER CITY DETAILS. CAP NEW MAIN AND PERFORM PRESSURE TESTING AND DISINFECTION. A TEMPORARY BLOWOFF IS TO BE INSTALLED FOR SAMPLING AND FLUSHING.
- 3. COORDINATE EXISTING MAIN SHUTDOWN METHOD WITH CITY. CITY PERSONNEL ARE TO OPERATE ALL VALVES.
- 4. ONCE EXISTING MAIN HAS BEEN SHUT DOWN, INSTALL APPROPRIATELY SIZED TAPPING SADDLE WITH CORP STOP ON NEW MAIN. USE TYPE K COPPER TUBE CONFORMING TO ASTM D88 TO CONNECT TO EXISTING LINE USING NECESSARY FITTINGS. USE ANNEALED TEMPER FOR DIAMETERS OTHER THAN 3", WHICH IS TO BE DRAWN TEMPER.
- 5. CAP EXISTING MAIN AND ABANDON PER PLANS.

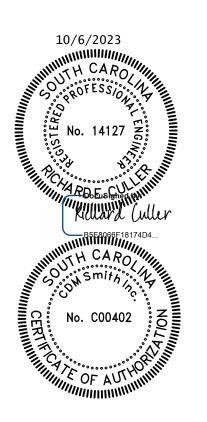


ASBESTOS CEMENT CONNECTIONS

DETAIL

- 1. CONTRACTOR TO ADHERE TO ALL SC DHEC REGULATIONS WHEN HANDLING OR DISPOSING OF ASBESTOS—CONTAINING MATERIAL. CONTRACTOR TO SUBMIT PLAN OUTLINING ASBESTOS HANDLING PROCEDURES TO CITY AND ENGINEER FOR REVIEW AT LEAST 30 DAYS IN ADVANCE OF WORK IMPACTING ASBESTOS—CEMENT (AC) PIPE. RELEVANT LICENSES OF ASBESTOS ABATEMENT CONTRACTOR AND PERSONNEL SHALL BE INCLUDED IN SUBMITTAL.
- 2. EXPOSE EXISTING PIPE TO CONFIRM EXISTING PIPE SIZE, MATERIAL AND CONNECTION METHOD. IF CONDITIONS ARE DISCOVERED THAT REQUIRE CHANGES TO CONNECTION METHOD, OBTAIN APPROVAL FROM CITY OF ROCK HILL PRIOR TO EXECUTING CONNECTION.
- 3. INSTALL NEW MAIN UP TO EXISTING MAIN, LEAVING ADEQUATE ROOM TO MAKE CONNECTION. ALL PIPE FROM 12" TEE TO CONNECTION SHALL BE RESTRAINED JOINT. CAP NEW MAIN AND PERFORM PRESSURE TESTING AND DISINFECTION. A TEMPORARY BLOWOFF IS TO BE INSTALLED FOR SAMPLING AND FLUSHING.
- 4. COORDINATE EXISTING MAIN SHUTDOWN METHOD WITH CITY. CITY PERSONNEL ARE TO OPERATE ALL VALVES.
- 5. ONCE EXISTING MAIN HAS BEEN SHUT DOWN, REMOVE EXISTING AC PIPE AS NEEDED TO INSTALL SECOND FITTING AND 20 FEET OF NEW DUCTILE IRON PIPE. CONNECT STRAIGHT INTO EXISTING AC PIPE WITH ROMAC 501 COUPLING OR APPROVED EQUAL.
- 6. CAP EXISTING MAIN AND ABANDON PER PLANS. SEE NOTE 1 ABOVE.

JUNE 2022



DESIGNED BY: R. CULLER

DRAWN BY: A. KEOUGH

SHEET CHK'D BY: A. KEOUGH

CROSS CHK'D BY: J. EPTING

APPROVED BY: R. CULLER

DATE DRWN CHKD REMARKS

1441 Main Street, Suite 1000 Columbia, South Carolina 29201 Tel: (803) 758-4500

YORK COUNTY TRANSPORTATION

SC-72 WIDENING FROM RAMBO ROAD

PROJECT NO. 120959-111726
FILE NAME: CD04DTLS.DWG
SHEET NO.

CD-4

SC72 WIDENING SEWER RELOCATIONS

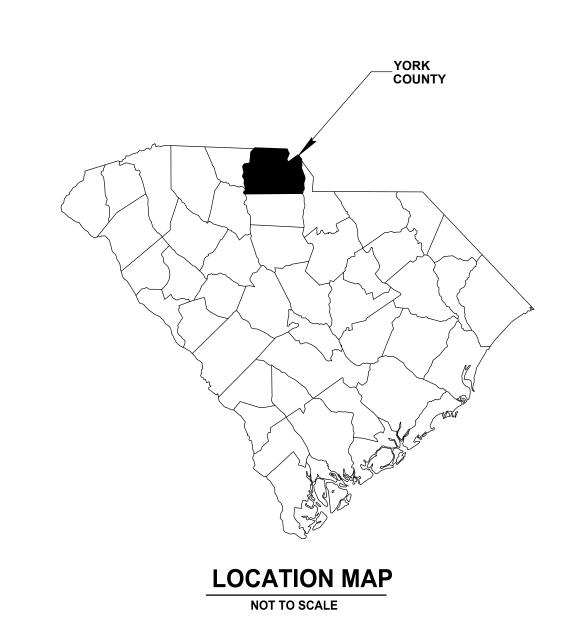
YORK COUNTY TRANSPORTATION SC-72 WIDENING FROM RAMBO RD SEWER RELOCATIONS

JULY 2022









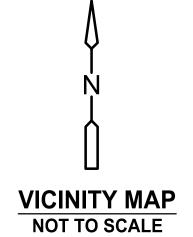




IMAGE OBTAINED FROM GOOGLE EARTH PRO NOVEMBER 2019

CITY OF ROCK HILL CONTACT:
757 SOUTH ANDERSON ROAD
ROCK HILL, SC 29730
RICK CARTER
803-329-5500

UTILITY PROVIDERS:

WATER/SEWER/ELECTRIC

CITY OF ROCK HILL 757 SOUTH ANDERSON ROAD ROCK HILL, SC 29730 803-329-5500

UTILITY.DISPATCH@CITYOFROCKHILL.COM

CONTACT: SCOTT TURNER (WATER/SEWER)

MARCELO MAURI (ELECTRIC)

YORK ELECTRIC COOPERATIVE, INC. 1385 ALEXANDER LOVE HIGHWAY YORK, SC 29745

CONTACT: TIM SCISM 803-984-2020

800-582-8810

CABLE/INTERNET/TELEPHONE

COMPORIUM COMMUNICATIONS

PO BOX 470 ROCK HILL, SC 29730

CONTACT: PAUL LINDSEY 803-326-6006 STEVE DICKSON 803-326-6027

AT&T

CONTACT: RON DUKES 803-606-6700

NATURAL GAS

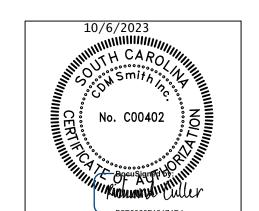
YORK COUNTY NATURAL GAS AUTHORITY 979 WEST MAIN STREET

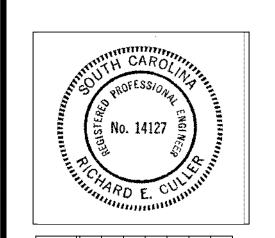
ROCK HILL, SC 29730

CONTACT: AMANDA GALLAGHER 803-323-5363

CDM Smith

1441 Main Street Suite 1000 Columbia, SC 29201 Tel: 803-758-4500 PROJECT NO. 120959-111726





DATE REVISION				
NO.				

SC-72 WIDENING SEWER RELOCATIONS COVER SHEET

ISSUED FOR BID

Project Manager: Mark Lester, PE

Drawn By: Checked By: AJK

DATE: JULY 2022 SCALE: 1"=20'

DRAWING No.

YORK COUNTY

GENERAL NOTES

- 1. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH CITY OF ROCK HILL AND THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
- 2. EROSION AND SEDIMENT CONTROL SHALL BE PERFORMED PER SCDOT PERMITS, SCDHEC MS4/NOI PERMITTING. US ARMY CORPS OF ENGINEERS PERMITS, AND ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL REQUIREMENTS.
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENCROACHMENT INTO OR DAMAGE TO DESIGNATED WETLANDS OR WATERS OF THE U.S. OR STATE. THE CONTRACTOR SHALL ESTABLISH TEMPORARY CONSTRUCTION FENCES AND EROSION CONTROL MEASURES TO THE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OR MITIGATION OR ANY OTHER REMEDIAL ACTION, COST, FINE, ETC. REQUIRED OR ASSIGNED BY THE CORPS OF ENGINEERS, SCDHEC, OR OTHER U.S., STATE, OR LOCAL JURISDICTION.
- 4. RESOLUTION OF CONFLICTS AND ADJUSTMENTS IN ELEVATION AND LOCATION OF PROPOSED UTILITIES SHALL BE AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL CALL THE PALMETTO UTILITIES PROTECTION SERVICE (PUPS) AT 811 OR 1-800-922-0983 NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST TWO (2) WORKING DAYS 24. THE CONTRACTOR SHALL REPAIR ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO PRIOR TO WORK IN THE VICINITY OF THEIR FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION.
- 6. UNLESS NOTED OTHERWISE, THE ELEVATIONS OF EXISTING UTILITIES SHOWN IN THE PROFILES ARE NOT KNOWN. THE MAJORITY OF EXISTING UTILITIES SHOWN ARE FROM SUE DATA.
- 7. ALL UTILITIES MAY NOT BE SHOWN OR MAY BE LOCATED OTHER THAN SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING WORK, FOR ALL UTILITY COORDINATION, AND ALL TEMPORARY UTILITY RELOCATION COSTS.
- 8. EXISTING UTILITIES SHOWN ON THE PLANS ARE FROM SUBSURFACE UTILITY ENGINEERING (SUE) WITHIN THE DEFINED SUE LIMITS ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MARKING EXISTING UTILITIES INCLUDING LINES, VALVES, BOXES, DRAINAGE STRUCTURES, AND IRRIGATION LINES AND HEADS, WITHIN THE CONSTRUCTION LIMITS BEFORE ANY CONSTRUCTION ACTIVITY. ALL LINES AND STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. ANY BROKEN OR DAMAGED FACILITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 9. THE CONTRACTOR SHALL COORDINATE LOCATION OF THE UTILITIES WITH THE OWNERS OF RECORD FOR EACH UTILITY, INCLUDING BUT NOT LIMITED TO; WATER, SANITARY SEWER, GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION, ADDITIONAL STORM DRAINAGE SYSTEMS, SERVICE LINES, AND ANY OTHER BURIED UTILITY OR BURIED CONDUIT SYSTEMS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION.
- 10. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND RELOCATION OF EXISTING UTILITIES WITH THEIR RESPECTIVE OWNER AND PROVIDE TEMPORARY SERVICES AS NEEDED UNTIL NEW SERVICES CAN BE INSTALLED, TESTED, AND ACCEPTED. THIS INCLUDES, BUT IS NOT LIMITED TO; ELECTRIC, TELEPHONE, GAS, POWER LINES, POWER POLES, POWER METERS, LIGHT POLES, AND CONTROLS, AT NO ADDITIONAL COST TO YORK COUNTY OR THE UTILITY OWNERS.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING WATER AND SEWER SERVICE TO THE USERS ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL PROVIDE THE METHOD FOR MAINTAINING SERVICE TO CITY OF ROCK HILL FOR APPROVAL PRIOR TO THE START OF ANY CONSTRUCTION. THE PAYMENT FOR MAINTAINING WATER AND SEWER SERVICE SHALL BE INCLUDED IN THE PRICE FOR WATER AND SEWER PIPE. NO SEPARATE PAYMENT WILL BE MADE.
- 12. THE FLOW IN ALL SEWERS, DRAINS, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR. WHENEVER SUCH SEWERS. DRAINS, AND WATERCOURSES ARE DISTURBED OR DESTROYED DURING THE CONSTRUCTION OF THE WORK. THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE WITH THE SAME SIZE PIPE, OR AS DIRECTED BY THE ENGINEER AND OWNER OF THE FACILITY.
- 13. WHERE PLANS PROVIDE FOR A PROPOSED WATER OR SEWER LINE TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER, STORM DRAIN, OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED FACILITY. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING UTILITY TO BE CONNECTED TO, OR CROSSED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLANNED WATER OR SEWER LINE SLOPE. THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED LINE WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS. PAYMENT FOR THESE OPERATIONS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- 14. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND IN THE FIELD OR ON THE DRAWINGS PRIOR TO BEGINNING OR CONTINUING WORK. ANY DEVIATION FROM THE CONSTRUCTION PLANS SHALL NEED TO BE APPROVED IN ADVANCE IN WRITING BY THE ENGINEER AND THE CITY OF ROCK HILL WITH NOTIFICATION TO YORK COUNTY.
- 15. NO ADJUSTMENTS IN ELEVATION OR LOCATION OF PROPOSED WATER AND SEWER FACILITIES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER. WHEN CIRCUMSTANCES COME TO THE ATTENTION OF THE CONTRACTOR WHICH LEAD HIM TO BELIEVE SUCH ADJUSTMENTS MAY BE NEEDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE WITH ALL AVAILABLE INFORMATION.
- 16. ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- 17. THE CONTRACTOR AND ANY SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER, YORK COUNTY, AND THE CITY OF ROCK HILL SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION NOT SPECIFIED HEREIN, NOR FOR SAFETY ON THE JOB SITE. NOR SHALL THE ENGINEER, YORK COUNTY, AND THE CITY BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 18. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. PERMITS OBTAINED BY THE ENGINEER AND CITY OF ROCK HILL HAVE BEEN INCLUDED IN THE SPECIFICATION MANUAL.
- 19. A CLAIM OF DELAY CANNOT BE MADE BY THE CONTRACTOR DUE TO OTHER CONTRACTORS WORKING IN THE AREA.

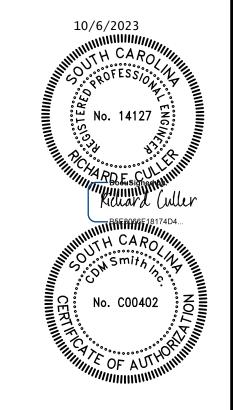
- 20. THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATION AT OR NEAR SAID IRON PINS AND MONUMENTS. IF ANY PINS OR MONUMENTS ARE DISTURBED, DESTROYED, OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR AT THE COMPLETION OF THE PROJECT OR AT THE DIRECTION OF THE ENGINEER OR YORK COUNTY AT NO EXPENSE TO THE PROPERTY OWNERS OR COUNTY.
- 21. THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.
- PROTECT THESE AREAS. IF ANY WETLAND IS DETERMINED TO HAVE BEEN DAMAGED DURING 22. NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON PUBLIC STREETS: EXCEPTIONS MAY BE GRANTED BY YORK COUNTY AND SCDOT WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY AND SCDOT.
 - 23. ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ITS ORIGINAL AND CITY OF ROCK HILL.
 - THE EXECUTION OF THIS CONTRACT AT HIS EXPENSE. ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND YORK COUNTY.
 - 25. ALL THE SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES THAT ARE TO REMAIN INTACT WHICH ARE DISTURBED OR DAMAGED DURING WORK UNDER THE CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR, UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE FOR THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE
 - 26. EXCEPT WHERE CLEARING IS REQUIRED, THE CONTRACTOR SHALL LEAVE THE AREA DISTURBED BY CONSTRUCTION IN THE SAME OR BETTER CONDITION AS PRIOR TO COMMENCEMENT OF
 - 27. WHEN NEW SANITARY SEWER OR WATER LINES ARE INSTALLED IN A TRENCH UNDER EXISTING PAVEMENT. THE PAVEMENT SHALL BE SAW-CUT PRIOR TO EXCAVATION AND THEN PATCHED ACCORDING TO THE STANDARD DETAILS, UNLESS THE PAVEMENT IS BEING REMOVED FOR THE ROADWAY RECONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR SAW CUTTING PAVEMENT.
 - 28. CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR TREES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON CONSTRUCTION PLANS. LIMITS OF CONSTRUCTION VARY THE AREA BETWEEN THE EDGE OF PAVEMENT AND THE TEMPORARY CONSTRUCTION EASEMENT
 - 29. IF TREE TRIMMING AND/OR REMOVAL IS REQUIRED, ALL TREE WORK MUST BE DONE BY A SOUTH CAROLINA CERTIFIED LICENSED ARBORIST, WITH A MINIMUM OF 5 YEARS OF CURRENT ACTIVE EXPERIENCE. WHEN TREE LIMBS ARE TRIMMED THEY SHALL BE EVENED UP ON ALL SIDES OF THE TREES.
 - 30. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.
 - 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY DEWATERING UTILIZING ACCEPTABLE MEASURES AS APPROVED BY THE ENGINEER. ALL DEWATERING FLOWS ARE TO BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT INTO EXPOSED SOILS, STREAM BANKS, OR ANY SITE WHERE THE FLOW COULD CAUSE EROSION OR SILTATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
 - 32. EXCAVATED MATERIALS SHALL NOT BE PLACED ON THE ROADWAY SURFACES. EXCAVATED MATERIALS MUST BE PLACED BEHIND THE BACKSIDE OF THE EXCAVATED TRENCH (AWAY FROM THE ROAD). EXCAVATED MATERIALS SHALL NOT BE LEFT IN DITCHES; CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT ALL TIMES. WORK MUST BE SCHEDULED AND CONDUCTED IN SUCH A WAY AS TO MINIMIZE SOIL EROSION AND CONTROL RUNOFF.
 - OF THE CONSTRUCTION.
 - 34. ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOODPLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE PERMANENTLY STABILIZED. THE ACQUISITION OF THIS SITE IS THE CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAYMENT WILL BE MADE.
 - 35. NO MORE THAT 200 FEET OF TRENCH SHALL BE OPEN AT ANY GIVEN TIME. TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING SHALL OCCUR SO AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA. THE CONTRACTOR SHALL BACKFILL TRENCHES IMMEDIATELY. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE
 - 36. BEDDING AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SCDOT REQUIREMENTS AND THESE SPECIFICATIONS. EXCAVATED MATERIALS MEETING THESE REQUIREMENTS MAY BE STOCKPILED AND USED FOR BACKFILL. EXCAVATED MATERIALS THAT ARE NOT ACCEPTABLE 5. DUE TO THE DEPTH OF THE SEWER LINE CONSTRUCTION, CONTRACTOR SHALL MAKE SHALL BE REMOVED FROM THE PROJECT SITE.
 - 37. COMPACTION UNDER PROPOSED SCDOT ROADWAYS SHALL BE PER SCDOT REQUIREMENTS AND 6. THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE THESE SPECIFICATIONS. YORK COUNTY AND THE CITY OF ROCK HILL HAVE THE RIGHT TO BRING IN AN INDEPENDENT CONSULTANT TO PERFORM COMPACTION TESTS AND VERIFY THAT REQUIRED COMPACTION IS BEING ACHIEVED.
 - 38. FLOWABLE FILL SHALL BE USED WHERE REQUIRED ON THE PLANS, IN THE SPECIFICATION, AND BY THE PERMITS AND SHALL BE IN ACCORDANCE WITH SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION. COST OF FLOWABLE FILL WILL BE INCLUDED IN THE LINEAR FOOT PRICE FOR INSTALLED PIPE. NO SEPARATE PAYMENT WILL BE MADE.
 - 39. GRANULAR BEDDING AND BACKFILL OR CONTROLLED DENSITY FILL SHALL BE INCLUDED FOR PAYMENT WITH THE PRICE OF PIPE, OR THE VARIOUS ITEMS OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
 - 40. WHERE UNSUITABLE MATERIALS ARE ENCOUNTERED THEY SHALL BE EXCAVATED AND REMOVED AS DIRECTED BY THE ENGINEER. THE ENGINEER THEN MAY DIRECT INSTALLATION AND COMPACTION OF ADDITIONAL GRANULAR BEDDING IN ORDER TO RESTORE THE TRENCH

- BOTTOM TO THE REQUIRED FLEVATION. THIS EXTRA BEDDING, WHERE DIRECTED AND APPROVED, WILL BE PAID FOR IN 12 INCH UNITS PER LINEAR FOOT AT THE UNIT PRICE BID.
- 41. RESTORATION OF LAWNS AND OTHER DISTURBED AREAS SHALL BE CAREFULLY GRADED TO REMOVE ALL STONES PRIOR TO THE PLACEMENT OF TOP SOIL. THE ENGINEER OR YORK COUNTY SHALL APPROVE ALL FINAL GRADING PRIOR TO ANY SEEDING AND MULCHING OPERATIONS. SEEDING AND MULCHING SHALL BE COMPLETED BY A HYDROSEEDING PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GERMINATION OF THE SEED THROUGHOUT THE PROJECT AREA.
- 42. THE CONTRACTOR SHALL FURNISH AND USE CALCIUM CHLORIDE FOR DUST CONTROL IF DIRECTED BY THE ENGINEER OR YORK COUNTY.
- 43. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR HIS OR HER REVIEW. 5 COPIES OF AND EQUIPMENT BEFORE ANY OF THE ABOVE ITEMS ARE ORDERED. CITY OF ROCK HILL BEARS NO RESPONSIBILITY TO ACCEPT ANY OF THE ABOVE ITEMS WITHOUT A COMPLETE REVIEW OF THE SHOP DRAWINGS AND ACCEPTANCE OF THE SHOP DRAWINGS.
- CONDITION OR CONNECTED TO THE SANITARY SEWER SYSTEM AS DIRECTED BY THE ENGINEER 44. FOR ANY EXISTING WATER LINES, SANITARY SEWERS, AND MANHOLES THAT MUST BE REMOVED IN ORDER TO INSTALL THE NEW PIPE IN THE SAME TRENCH, THE COST OF REMOVAL SHALL BE INCLUDED FOR PAYMENT WITH THE EXCAVATION FOR THE NEW SEWER OR WATER LINE. NO SEPARATE PAYMENT SHALL BE MADE.
 - 45. MAINTENANCE OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR. TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, EXCEPT WHEN WORK IS ACTIVELY IN PROGRESS AND REQUIRES THE TEMPORARY CLOSURE OF A SINGLE LANE. DURING TIMES OF LANE CLOSURE TWO-WAY TRAFFIC WILL BE MAINTAINED BY USE OF FLAG PERSONS, TEMPORARY TRAFFIC SIGNALS, OR OTHER TEMPORARY TRAFFIC CONTROL DEVICES.
 - 46. PERMANENT SIGNAGE REQUIRED BY SCHOOL TO ALERT TRAFFIC TO THE PRESENCE OF CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR. THIS SIGNAGE IS TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THIS CONTRACT.
 - 47. THE CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING 17. SEWER SERVICE PIPING SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC PIPE IN THE CONSTRUCTION PERIOD.
 - 48. CONTRACTOR TO REPAIR ALL DRIVEWAYS AFTER INSTALLATION. SEE STANDARD DETAILS.
 - 49. CONTRACTOR IS RESPONSIBLE FOR STABILIZING AND RESTORING THE PROJECT SITE WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED BY MS4 OR SCDHEC. SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION FOR FINAL GRASSING SCHEDULE.
- ALONG ALIGNMENT AS SHOWN ON EACH PLAN SHEET, BUT IN MOST CASES ARE DEFINED AS 50. CONTRACTOR SHALL COORDINATE WORK SCHEDULES WITH ALL OTHER UTILITIES AND/OR THEIR CONTRACTORS AND THE SCDOT CONTRACTOR.
 - 51. UNLESS SPECIFICALLY SHOWN ON THE CONSTRUCTION PLANS, NO MANHOLES, VALVES, OR AIR RELEASE VALVES WILL BE LOCATED IN PAVEMENT OF ANY KIND; ROADWAY, INTERSECTIONS, SIDEWALKS, DRIVEWAYS, ETC.
 - 52. COST OF FITTINGS, TRENCH WIDTH AND DEPTH, BACKFILL, BY-PASS PUMPING, ETC., WILL BE INCLUDED IN THE LINEAR FOOT PRICE FOR INSTALLED PIPE. NO SEPARATE PAYMENT WILL BE MADE.
 - 53. CONTRACTOR IS RESPONSIBLE FOR TRENCH STABILIZATION, FOUNDATION STABILIZATION, AND DEWATERING (IF REQUIRED). NO SEPARATE PAYMENT WILL BE MADE OTHER THAN UNIT PRICE FOR ADDITIONAL FOUNDATION.

SEWER NOTES

- 1. SEWER INSTALLATIONS SHALL BE IN ACCORDANCE WITH THESE CONSTRUCTION PLANS AND THE MATERIAL AND CONSTRUCTION SPECIFICATIONS, CITY OF ROCK HILL REQUIREMENTS, "TEN 21. THE CONTRACTOR SHALL INSTALL A CLEANOUT FOR EVERY EXISTING AND PROPOSED SERVICE STATES STANDARDS". AND SCDHEC REGULATIONS, TOGETHER WITH THE MOST CURRENT CONSTRUCTION AND MATERIAL SPECIFICATIONS OF SCDOT INCLUDING STANDARD DRAWINGS AND ALL SUPPLEMENTS THERETO. THESE SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE 22. SEWER SERVICE LINES SHALL BE NEW MATERIALS FROM THE NEW GRAVITY LINE TO THE A PART OF THIS PLAN UNLESS OTHERWISE SHOWN OR CALLED OUT ON THESE DRAWINGS OR IN THE SPECIFICATIONS.
- SHALL PROVIDE TO CITY OF ROCK HILL A PLAN TO MAINTAIN EXISTING SANITARY SEWER FLOWS DURING CONSTRUCTION. THIS PLAN, WHICH MAY INCLUDE BY-PASS PUMPING, MUST BE APPROVED BY CITY OF ROCK HILL PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN EXISTING AVERAGE AND PEAK FLOWS IN AN ENVIRONMENTALLY SAFE METHOD DURING CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING SEWER FLOWS DURING CONSTRUCTION. INCLUDE COST IN THE LINEAR FOOT PRICE FOR PIPE.
- 3. BEFORE THE START OF CONSTRUCTION, CONTRACTOR SHALL HAVE A PROFESSIONAL LAND SURVEYOR STAKE THE CENTERLINE OF THE PROPOSED SANITARY SEWER MAIN. NO SEPARATE PAYMENT WILL BE MADE. CONTRACTOR SHALL SUBMIT SURVEYED ELEVATION OF THE MANHOLES PLACED WITH MONTHLY PAY APPLICATION. ALONG WITH AS-BUILT SUBMITTAL CONTRACTOR SHALL SUBMIT A 3D CAD FILE FROM A REGISTERED LAND SURVEYOR OF MANHOLE INVERTS, MANHOLE RIMS, AND LOCATION OF SERVICE LINES AND CLEANOUTS, AND LOCATIONS OF ALL VALVES AND WATER LINE TEES.
- 4. THE CONTRACTOR SHALL BEGIN CONSTRUCTION OF EACH PHASE OF GRAVITY SEWER AT THE LOWEST ELEVATION TIE-IN MANHOLE AND CONSTRUCT UPSTREAM.
- PROVISIONS FOR PROTECTION OF THE PAVED ROADWAY.
- PASSAGE OF ANY SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO POTABLE WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE.
- 7. SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED POTABLE WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT SEPARATION (THESE LOCATIONS ARE NOTED ON THE CONSTRUCTION PLANS) THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH TO ONE SIDE OF THE SANITARY SEWER AT AN ELEVATION SUCH THAT THE BOTTOM OF THE WATER MAIN IS NOT LESS THAN 18-INCHES ABOVE THE CROWN OF THE
- 8. SEWERS CROSSING POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE OUTSIDE OF THE POTABLE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHETHER THE POTABLE WATER MAIN IS ABOVE OR BELOW THE SEWER, BUT PREFERABLY ABOVE THE SEWER. WHERE A NEW SEWER

- LINE CROSSES A NEW POTABLE WATER MAIN. A FULL LENGTH OF PIPE SHALL BE USED FOR BOTH THE SEWER LINE AND POTABLE WATER MAIN AND THE CROSSING SHALL BE ARRANGED SO THAT THE JOINTS OF EACH LINE SHALL BE AS FAR AS POSSIBLE FROM THE POINT OF CROSSING AND EACH OTHER. WHERE A POTABLE WATER MAIN CROSSES UNDER A SEWER. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER LINE TO PREVENT DAMAGE TO THE POTABLE WATER MAIN WHILE MAINTAINING LINE AND GRADE.
- 9. EXISTING MANHOLES TO BE CORE DRILLED FOR THE INSTALLATION OF A NEW LINE.
- 10. CONE ORIENTATION OF NEW MANHOLES SHALL BE AS DETAILED IN THE STANDARD DETAILS.
- 11. NEW MANHOLES TO BE CONSTRUCTED WITH FINAL RIM ELEVATIONS TO BE 0.1-FOOT ABOVE FINAL PROPOSED SCDOT GRADE.
- SHOP DRAWINGS FOR ALL MATERIALS, STRUCTURES, MIX DESIGNS, GRADATION CERTIFICATIONS, 12. NO MORE THAN ONE STANDARD SIZE CONCRETE RING SHALL BE USED AT THE TOP OF ANY MANHOLE TO ADJUST GRADE.
 - 13. GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SEWER PIPE AND SHALL BE BELL AND SPIGOT PIPE, SHALL BE IN LENGTHS NOT EXCEÉDING 20 FEET LAYING LENGTHS, AND SHALL HAVE MINIMUM WALL THICKNESS CONFORMING TO ASTM D3034 UNDER THE CLASSIFICATION FOR SDR26 PIPE.
 - 14. PVC SEWER PIPE FITTINGS FOR GRAVITY SYSTEMS SHALL BE BELL AND SPIGOT OR BELL AND PLAIN END AND SHALL CONFORM TO THE SAME CELL CLASSIFICATION REQUIREMENTS AS DEFINED ABOVE. FITTINGS SHALL BE IN ACCORDANCE WITH ASTM F794, D3212, AND/OR D3034, AS APPLICABLE WITH STIFFNESS AND WALL THICKNESS EQUAL TO OR GREATER THAN THE PIPE. ADAPTERS SHALL BE PROVIDED TO JOIN DIFFERENT MATERIALS
 - 15. JOINING SHALL BE BY RUBBER GASKETS THAT CONFORM IN ALL RESPECTS TO THE PHYSICAL REQUIREMENTS SPECIFIED BY ASTM F477 FOR LOW HEAD APPLICATIONS. THE LUBRICANT USED FOR ASSEMBLY SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND SHALL HAVE NO DETRIMENTAL EFFECT ON EITHER THE PIPE OF THE RUBBER GASKET.
 - 16. PVC SEWER PIPE SHALL CONTAIN MARKINGS REQUIRED BY ASTM F794.
 - ACCORDANCE WITH ASTM D2665 AND ASTM D1785. SERVICE PIPING SHALL BE SIZED TO ACCEPT FLOWS FROM THE STRUCTURE BEING SERVED, BUT IN NO CASE SHALL THE SIZE OF THE SERVICE BE LESS THAN THE FOLLOWING: A) RESIDENTIAL SERVICE PIPING: MINIMUM 4-INCH DIAMETER PIPING. B) COMMERCIAL SERVICE PIPING: MINIMUM 6-INCH DIAMETER PIPING.
 - 18. SERVICE BRANCH CONNECTION FOR PVC PIPE SHALL CONSIST OF A MOLDED WYE BRANCH FITTING WITH GASKETED CONNECTIONS AND SHALL BE IN ACCORDANCE WITH ASTM D2466. JOINING SHALL BE THROUGH SOLVENT CEMENT IN ACCORDANCE WITH ASTM D2564. SEWER SERVICE LATERAL PIPING SHALL BE INSTALLED PERPENDICULAR TO THE MAINLINE WHEN POSSIBLE.
 - 19. COUPLINGS USED TO JOIN VARIOUS TYPES OF 12-INCH AND SMALLER PIPE SHALL BE ELASTOMERIC PVC SLEEVE COUPLINGS WITH STAINLESS STEEL COMPRESSION BANDS AND STAINLESS-STEEL SHEAR RINGS AS MANUFACTURED BY MISSION CLAY PRODUCTS, FERNCO, LOGAN CLAY PRODUCTS OR APPROVED EQUAL. MAY ALSO BE ELASTOMERIC PVC WITH INTERNALLY MOLDED RIGID FIBERGLASS INSERT AND STAINLESS-STEEL BANDS AS MANUFACTURED BY DFW PLASTICS, OR APPROVED EQUAL. THE COUPLING SHALL PROVIDE A WATER AND/OR GAS TIGHT CONNECTION. FERNCO COUPLINGS SHALL ONLY BE USED ON CLAY PIPE OR ORANGEBURG PIPE AND WHEN ATTACHING TO A DIFFERENT TYPE MATERIAL.
 - 20. SADDLES FOR LATERAL CONNECTIONS SHALL BE ABS PLASTIC, PVC, ELASTOMERIC PVC, OR APPROVED EQUIVALENT. SADDLES SHALL BE STYLE "CB" SEWER SADDLES BY ROMAC INDUSTRIES, OR APPROVED EQUAL. THE LATERAL SHALL BE CONNECTED TO THE SADDLE WITH A COMPRESSION GASKET, SOLVENT WELD ADAPTER, AND/OR STAINLESS-STEEL BAND, AS APPLICABLE.
 - LATERAL ONE FOOT INSIDE THE R/W LINE. CLEAN OUTS SHALL BE ADJUSTED TO GRADE.
 - TIE-IN WITH THE EXISTING SEWER SERVICE AT THE RIGHT-OF-WAY LINE.
- 33. EXCESS SOIL THAT IS STOCKPILED MUST BE REMOVED WITHIN 15 DAYS OF THE COMPLETION 2. AT LEAST 10 WORKING DAYS PRIOR TO THE COMPLETION, CONTRACTOR TO SUBMIT A DETAILED BY DASS AND THE IN DIAN FOR FACIL CONTRACTOR TO THE CONSTRUCTION. TO SUBMIT A DETAILED BY-PASS AND TIE-IN PLAN FOR EACH LOCATION TO CITY OF ROCK HILL AND THE ENGINEER FOR APPROVAL IN ADVANCE.
 - 24. THE CITY OF ROCK HILL AND THE ENGINEER WILL COORDINATE WITH SCDHEC TO RECEIVE APPROVAL TO PUT PORTIONS OF THE NEW GRAVITY SEWER IN SERVICE AS CONSTRUCTION PROCEEDS. THE CITY AND ENGINEER WILL INFORM THE CONTRACTOR OF THE LIMITS OF EACH DOWNSTREAM PORTION WHICH IS TO BE PLACED IN SERVICE AND WILL COORDINATE THE SWITCH OVER OF SERVICES AND ABANDONMENT OF EXISTING SEWER.
 - 25. ALL EXISTING SEWER LINES REMOVED FROM SERVICE SHALL BE ABANDONED IN PLACE BY FILLING WITH FLOWABLE GROUT. INCLUDES REMOVAL OF MANHOLES TO A POINT NOT LESS THAN 36" BELOW FINISHED GRADE AND FILLING OF ALL PIPE OF THE VARIOUS SIZES AND REMAINING MANHOLE SECTIONS WITH FLOWABLE FILL. REQUIRED FLOWABLE FILL, PIPE CAPS, SITE RESTORATION ACTIVITIES, BACKFILL AND COMPACTION PER THE SPECIFICATIONS, AND ALL OTHER INCIDENTALS TO THE ABANDONMENT OF THE PIPE ARE CONSIDERED AS SUBSIDIARY OBLIGATION OF THE CONTRACTOR FOR THE ABANDONMENT OF GRAVITY SEWER LINES IN
 - 26. GRAVITY SEWER DEMOLITION FOR EACH NOMINAL DIAMETER SHALL BE PAID FOR PER LINEAR FOOT MEASURED ALONG THE CENTERLINE OF THE SEWER AT THE UNIT PRICE BID. ALL COSTS ASSOCIATED WITH MANHOLES SHALL BE INCLUDED IN THE PER FOOT PRICE BID, NO ADDITIONAL PAYMENT SHALL BE MADE, EXCEPT FOR THE DEMOLITION OF SERVICES 6 INCHES IN DIAMETER AND SMALLER, WHICH SHALL BE PAID FOR PER EACH AT THE UNIT PRICE BID.
 - WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO WHICH MAY PERMIT THE 27. CONTRACTOR SHALL RECORD THE HORIZONTAL LOCATIONS OF ABANDONED IN PLACE SEWER LINES ON THE RED-LINED PLANS FOR INCLUSION IN THE RECORD DRAWINGS. ABANDONED IN PLACE SEWER SERVICES SHALL ALSO BE RECORDED ON THE RED-LINED PLANS BY MARKING THE LOCATION OF THE REMOVED CLEAN-OUT.
 - 28. ALL NEW SANITARY SEWERS SHALL BE VIDEO TAPED IN DVD FORMAT. THE VIDEO TAPE SHALL CLEARLY IDENTIFY THE LOCATION OF THE CAMERA WITHIN THE SEWER, THE DATE AND TIME THE VIDEO WAS MADE, AND BE OF SUFFICIENT QUALITY TO DETERMINE THE CONDITION OF THE SANITARY SEWERS. THIS VIDEO TAPE SHALL BE SUBMITTED TO AND REMAIN THE PROPERTY OF CITY OF ROCK HILL.



ESIGNED BY A. KEOUGH A. KEOUGH J. EPTING ROSS CHK'D B PROVED BY: DATE | DRWN | CHKD | REMARKS JUNE 2022

CDM 1441 Main Street, Suite 1000 Columbia, South Carolina 29201 Tel: (803) 758-4500

YORK COUNTY TRANSPORTATION

SC-72 WIDENING FROM RAMBO ROAD

GENERAL & SEWER NOTES

PROJECT NO. 120959-111726 FILE NAME: GOO1NOTE.DWG

G-1

SHEET NO.

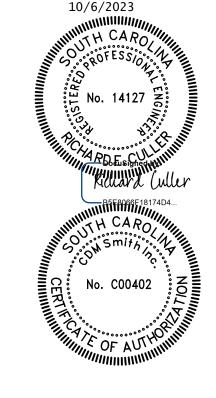
SEDIMENT & EROSION CONTROL NOTES

AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INSTALLED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 8 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT—LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- 20. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO PERFORMING EXCAVATION IN ANY AREA, MAINTAINED DURING WORK, AND REMOVED WHEN WORK IS COMPLETED. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE SCDHEC STORMWATER BMP HANDBOOK AND THE APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR THIS PROJECT.
- 21. AFTER CONSTRUCTION AREA IS STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES. DISPOSE OF ALL ACCUMULATED SEDIMENT.
- 22. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT OR SEDIMENT LADEN WATER FROM ENTERING CATCH BASINS, DRAINAGE SYSTEMS, OR WATER BODIES.

CONSTRUCTION SEQUENCE NOTES

- 1. RECEIVE NPDES COVERAGE FROM DHEC.
- 2. HOLD PRE-CONSTRUCTION MEETING AT LEAST 1 WEEK PRIOR TO STARTING LAND DISTURBING ACTIVITIES.
- 3. NOTIFY CITY OF ROCK HILL MIN. 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
- 4. INSTALLATION OF CONSTRUCTION ENTRANCES.
- 5. CLEAR AND GRUB ONLY AS NECESSARY TO INSTALL SEDIMENT AND EROSION CONTROL MEASURES SHOWN AND NOTED ON DRAWINGS.
- 6. INSTALL SEDIMENT AND EROSION CONTROL MEASURES (E.G., SILT FENCE AND SEDIMENT TUBES) IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
- 7. NOTIFY CITY OF ROCK HILL THAT EROSION CONTROL MEASURES ARE IN PLACE. WORK WILL NOT PROGRESS UNTIL CONTROLS HAVE BEEN INSTALLED, INSPECTED AND APPROVED BY CITY OF ROCK HILL.
- 8. CLEAR AND GRUB SITE (SEDIMENT AND EROSION CONTROL MEASURES FOR THESE AREAS MUST ALREADY BE INSTALLED).
- 9. COMPLETE ROUGH GRADING TO PROVIDE SEWER MAIN DESIRED COVER IN AREAS BEING CUT OR FILLED.
- 10. BEGIN SEWER MAIN LAYING OPERATIONS. EXCAVATE TRENCH FOR THE PIPE THAT WILL BE INSTALLED AS PART OF THE WORK AREA, INSTALL BEDDING IF NEEDED, INSTALL PIPE, AND BACKFILL TRENCH IN THE WORK AREA.
- 11. COMPLETE FINE GRADING, DRIVEWAY REPAIR, AND GRASSING IN THE WORK AREA IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
- 12. INSTALL SEDIMENT TUBES IN DITCHES TO AID IN SEDIMENT REMOVAL WHILE STABILIZATION OCCURS.
- 13. INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAN OUT SEDIMENT FROM EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED ON DRAWINGS. MAKE NEEDED REPAIRS IMMEDIATELY.
- 14. PERFORM PERMANENT/FINAL STABILIZATION MEASURES.
- 15. WITHIN 30 DAYS AFTER SITE IS STABILIZED (AS APPROVED BY OWNER AND ENGINEER), REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AND PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM DEVICE REMOVAL.
- 16. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
- 17. SUBMIT NOTICE OF TERMINATION (NOT) TO CITY OF ROCK HILL AS APPROPRIATE.



| DESIGNED BY: R. CULLER | DRAWN BY: A. KEOUGH | SHEET CHK'D BY: A. KEOUGH | CROSS CHK'D BY: J. EPTING | APPROVED BY: R. CULLER | DATE: JUNE 2022



YORK COUNTY TRANSPORTATION

SC-72 WIDENING FROM RAMBO ROAD

SEWER RELOCATIONS
SED/ERO CONTROL AND
CONSTRUCTION SEQUENCE NOTES

PROJECT NO. 120959-111726 FILE NAME: G002NOTE.DWG

SHEET NO.

G-2

LEGEND

NEW MAIN THIS PROJECT _____ TCE _____ TEMPORARY CONSTRUCTION EASEMENT _____ PE _____ PERMANENT UTILITY EASEMENT R/W - RIGHT OF WAY SILT FENCE LIMITS OF DISTURBANCE _____ LOD _____ PROPOSED FENCE ____x___x___x___ .~~~~~~~. VEGETATION LIMITS _____ TCE _____ EXISTING TEMP. CONSTRUCTION EASEMENT EXISTING PERMANENT UTILITY EASEMENT PROPERTY LINE EXISTING WATER MAIN EXISTING SANITARY SEWER EXISTING GAS MAIN ———— SD ———— EXISTING STORM DRAIN EXISTING UNDERGROUND CABLE TV EXISTING BURIED TELECOM _____ UT ____ EXISTING OVERHEAD ELECTRIC ----- OHE -----EXISTING OVERHEAD TELEPHONE

_____ C/F _____

_____ UE _____

____x ___x ___

EDGE OF PAVEMENT CUT/FILL

EXISTING UNDERGROUND ELECTRIC

EXISTING CHAIN LINK FENCE EXISTING UTILITY TO BE ABANDONED

MONITORING WELL PROPOSED FITTING PROPOSED GATE VALVE

PROPOSED BUTTERFLY VALVE PROPOSED FIRE HYDRANT

BORING LOCATION SURVEY CONTROL POINT

SEDIMENT TUBE SILT FENCE STONE OUTLET

EXISTING WATER VALVE EXISTING GAS VALVE CAP

EXISTING WATER METER EXISTING CLEANOUT

INVERT ELEVATION EXISTING FIRE HYDRANT

EXISTING SANITARY SEWER MANHOLE EXISTING STORM DRAIN MANHOLE

EXISTING SIGN EXISTING LIGHT POLE

EXISTING POWER POLE EXISTING GUY WIRE EXISTING MAILBOX

EXISTING ELECTRIC METER EXISTING SOIL BORING

EXISTING GUY POLE EXISTING CAMERA POLE

EXISTING HAND HOLE EXISTING WITNESS POST EXISTING TELECOM PEDESTAL

EXISTING TELECOM REPEATER EXISTING TV HANDHOLE

INDIVIDUAL TREE PROTECTION

DRIVEWAY/ PAVEMENT REPLACEMENT

PAVEMENT REMOVAL

EASEMENT INDEX

D

PROP NO.	TMS NO.	OWNER ADDRESS	OWNER	DB	PG	NOTES
9	6050000015	2783 SALUDA ROAD	MOFFATT KATHERINE E	6933	21	
37	6030301103	606 FAVORWOOD DRIVE	BARBER MARY K	10718	209	
38	6050000026	925 W MAIN ST	WILSON JAMES K	891	274	
41A	6030000078	PO BOX 11485	OAKDALE VOLUNTEER FIRE	16890	83	
41	6030000055	701 CREEKBRIDGE DR	HEUSER FREDERICK A	12925	147	
43	6030000029	1483 SHYTLE ROAD	BLACKWELL EDWARD L	1068	275	
70	6030101001	2520 SALUDA RD	HEMPHILL ANTWAN LAVETTE	16755	305	
86	6030201002	660 NORTH ANDERSEN RD	ROCK HILL SCHOOLS DIST 3	1712	211	
91	6030000036	2246 SALUDA RD	DUNLAP RONALD W JR TRUSTEE &	16943	213	
92	6030000035	2246 SALUDA RD	DUNLAP ANNE B	16754	361	
96	604000001	2196 SALUDA RD	HOLDER JOHN T R	13768	216	
103	6020000029	331 IVY ARBOR CIRCLE	NGUYEN KHANK & COUNG	12658	266	
112	6040601146	510 TARRINGTON DR	GOOD LAURA	11444	158	
133	6040601105	223 E MAIN ST STE 402	RODDEY ESTATES INC	0560	133	
138	6040601113	195 WEST ENGLEWOOD AVE	B&D APARTMENT PROPERTIES LLC	14933	280	
139	6020601057	2786 VISTAWOOD RD	PALMETTO FAMILY HOMES LLC	5521	212	
140	6020601036	4012 ORCHID WAY	JANMANGAL INC	17442	312	
141	6020701042	PO BOX 8050	WAL-MART REAL EST BUSINESS TR	14933	285	
142	6020601032	1726 SALUDA ROAD	BURRIS DONALD A	1901	98	
143	6020701042	PO BOX 4143	HANCOCK ETAL, R DARRELL	3722	74	
150	6020601002	2535 LESSLIE HWY	CALZADA STEVEN	17671	62	
151	6020601001	785 E LANEY TERRACE	SMALLS CHARLES N			
153	6020601035	5079 THEODORE ROAD	RODDEY CYNTHIA P & ORESA D	14323	181	
154	6020601037	5079 THEODORE ROAD	RODDEY CYNTHIA PLAIR	3147	256	
159	6020601053	785 E LANEY TERRACE	RODDEY CYNTHIA PLAIR	7424	118	

TEST HOLE DATA

TEST HOLE NO.	STATION/OFFSET	NORTHING	EASTING	TOP ELEVATION	DESCRIPTION	OWNER
1	STA 95+98/RIGHT 75.6'	1113292.7813'	1988012.6753'	607.070'	4" METAL SS SERVICE	CITY OF ROCK HILL
2		1108890.1883'	1985320.5359'	605.020'	6" METAL GAS	PLAINS PIPELINE
3		1108891.1075'	1985303.3759'	610.620'	12" METAL GAS	DOMINION ENERGY
4		1108892.8735'	1985291.7392'	608.120'	16" METAL GAS	DOMINION ENERGY
5		1108910.2258'	1985299.6650'	612.700'	12" PLASTIC WATER	CITY OF ROCK HILL
6		1108910.1683'	1985269.9224'	612.310'	12" METAL WATER	CITY OF ROCK HILL
7	STA 49+28/RIGHT 60.4'	1109884.3829'	1985223.2399'	623.020'	6" METAL GAS	PLAINS PIPELINE
8	STA 49+07/RIGHT 61.6'	1109874.7021'	1985219.3675'	623.240'	12" METAL GAS	DOMINION ENERGY
9	STA 49+07/RIGHT 62.8'	1109864.5344'	1985215.2531'	621.070'	16" METAL GAS	DOMINION ENERGY
10		1112650.8999'	1986333.2464'	623.350'	12" METAL WATER	CITY OF ROCK HILL
11		1112624.1857'	1986297.5343'	623.080'	30" METAL SEWER FM	CITY OF ROCK HILL
12	STA 79+48/RIGHT 2.0'	1112557.1895'	1986539.9722'	622.490'	30" METAL SEWER FM	CITY OF ROCK HILL
13	STA 79+39/RIGHT 80.1'	1112490.2668'	1986581.1622'	623.530'	30" METAL SEWER FM	CITY OF ROCK HILL
14	STA 49+31/LEFT 0.7'	1109915.6176'	1985170.5436'	621.910'	16" METAL GAS	DOMINION ENERGY
15	STA 49+43/LEFT 0.6'	1109926.4916'	1985176.4155'	622.420'	12" METAL GAS	DOMINION ENERGY
16	STA 49+54/LEFT 0.7'	1109936.0576'	1985181.1691'	622.590'	6" METAL GAS	PLAINS PIPELINE
17		1108827.9837'	1985288.4278'	609.480'	16" METAL GAS	DOMINION ENERGY
18		1108827.8744'	1985298.1549'	608.870'	12" METAL GAS	DOMINION ENERGY
19		1108825.9021'	1985314.3289'	605.940'	6" METAL GAS	PLAINS PIPELINE
20		1107094.1082'	1982471.5207'	616.470'	12" METAL WATER	CITY OF ROCK HILL
21		1107123.1876'	1982382.9939'	616.080'	12" METAL WATER	CITY OF ROCK HILL

UTILITY WITNESS MARKER CABLE TV BOX TELEPHONE PEDESTAL SPLICE BOX WATER MANHOLE TRANSFORMER BOX POWER POLE OTHER USE POLE CATCH BASIN DROP INLET POSSIBLE FUTURE MAST ARM GAS TEST POINT

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C-2	GRAVITY SEWER PLAN ROAD STA. 105+00 TO STA. 111+00				
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GENERAL ABBREVIATIONS

AIR RELEASE VALVE MULTI-USE PATH MUP ASP ASPHALT OVERHEAD POWER LINE CB CATCH BASIN PLASTIC CMP CORRUGATED METAL PIPE PROPOSED CONC CONCRETE PERMANENT EASEMENT OR PLAIN END DIP DUCTILE IRON PIPE PEDESTAL DRIVE PROPERTY LINE END OF INFORMATION POWER POLE ELEVATION PUMP STATION PVC POLYVINYL CHLORIDE PIPE EOP EDGE OF PAVEMENT RCP ΕX **EXISTING** REINFORCED CONCRETE PIPE FLG FLANGED RESTRAINED JOINT FORCE MAIN RIGHT-OF-WAY GRAVEL STEEL GAS STORM DRAIN SILT FENCE GAS VALVE SS STAINLESS STEEL OR SANITARY SEWER INVERT ELEVATION S OR SSMH SANITARY SEWER MANHOLE INFL INFLUENT INVERT INV STA STATION LF LINEAR FEET SV SEWER VALVE LOD LIMITS OF DISTURBANCE TCE TEMPORARY CONSTRUCTION EASEMENT MANHOLE TS&V TAPPING SLEEVE & VALVE MINIMUM TYP TYPICAL MECHANICAL JOINT UNDERGROUND TELECOM UNDERGROUND ELECTRIC



ESIGNED BY:___ A. KEOUGH SHEET CHK'D BY: A. KEOUGH J. EPTING ROSS CHK'D BY:_ R. CULLER PPROVED BY:____ REV. DATE DRWN CHKD REMARKS JUNE 2022

CDM Smith Columbia, South Carolina 29201 Tel: (803) 758-4500

YORK COUNTY TRANSPORTATION

SC-72 WIDENING FROM RAMBO ROAD

SEWER RELOCATIONS LEGEND, SHEET INDEX AND SUPPLEMENTARY INFORMATION

WATER

WATER VALVE

PROJECT NO. 120959-111726 FILE NAME: G003LEGD.DWG SHEET NO.

G-3

