

Stantec

STANTEC CONSULTING SERVICES INC.
4969 CENTRE POINTE DRIVE, SUITE 200
NORTH CHARLESTON, SC 29417
TEL 843.740.7700

CLIENT: GEORGETOWN COUNTY
108 SCREVEN STREET
GEORGETOWN, SC 29442
TRACY JONES | 843-545-3258

TOWN OF ANDREWS DRAINAGE
IMPROVEMENTS - PHASE 2

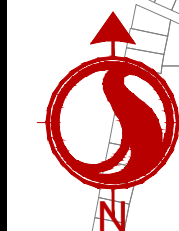
TOWN OF ANDREWS,
GEORGETOWN COUNTY,
SOUTH CAROLINA



Know what's below.
Call before you dig.

PROJECT NUMBER: 178421035

TOWN OF ANDREWS, SC



SITE MAP
SCALE: 1" = 1000'

| SHEET LIST | | |
|------------|-------------------------------------|----------|
| SHEET | TITLE | REVISION |
| C0-00 | COVER | 1 |
| C0-01 | PROJECT NOTES | |
| C2-00 | SHEET INDEX AND STAGING AREAS | |
| C2-01 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-02 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-03 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-04 | DEMOLITION AND EROSION CONTROL PLAN | 2 |
| C2-05 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-06 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-07 | DEMOLITION AND EROSION CONTROL PLAN | 1 |
| C2-08 | DEMOLITION AND EROSION CONTROL PLAN | 2 |
| C2-09 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-10 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-11 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-12 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-13 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-14 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-15 | DEMOLITION AND EROSION CONTROL PLAN | |
| C2-16 | DEMOLITION AND EROSION CONTROL PLAN | 1 |
| C2-17 | DEMOLITION AND EROSION CONTROL PLAN | |
| C3-00 | EROSION CONTROL DETAILS | |
| C3-01 | EROSION CONTROL DETAILS | 2 |
| C4-00 | GRADING OVERALL INDEX | |
| C4-01 | DRAINAGE PLAN AND PROFILE | |
| C4-02 | DRAINAGE PLAN AND PROFILE | |
| C4-03 | DRAINAGE PLAN AND PROFILE | |
| C4-04 | DRAINAGE PLAN AND PROFILE | |
| C4-05 | DRAINAGE PLAN AND PROFILE | |
| C4-06 | DRAINAGE PLAN AND PROFILE | |
| C4-07 | DRAINAGE PLAN AND PROFILE | 1 |
| C4-08 | DRAINAGE PLAN AND PROFILE | |
| C4-09 | DRAINAGE PLAN AND PROFILE | |
| C4-10 | DRAINAGE PLAN AND PROFILE | |
| C4-11 | DRAINAGE PLAN AND PROFILE | |
| C4-12 | DRAINAGE PLAN AND PROFILE | 1 |
| C4-13 | DRAINAGE PLAN AND PROFILE | 1 |
| C4-14 | DRAINAGE PLAN AND PROFILE | |

| | | |
|-------|---------------------------|---|
| C4-15 | DRAINAGE PLAN AND PROFILE | 1 |
| C4-16 | DRAINAGE PLAN AND PROFILE | 1 |
| C4-17 | DRAINAGE PLAN AND PROFILE | |
| C5-00 | DRAINAGE DETAILS | |
| C5-01 | DRAINAGE DETAILS | |
| C5-02 | DRAINAGE DETAILS | |
| C5-03 | DRAINAGE DETAILS | |
| C6-00 | ROADWAY OVERALL INDEX | |
| C6-01 | ROADWAY PLAN | |
| C6-02 | ROADWAY PLAN | |
| C6-03 | ROADWAY PLAN | |
| C6-04 | ROADWAY PLAN | |
| C6-05 | ROADWAY PLAN | |
| C6-06 | ROADWAY PLAN | |
| C6-07 | ROADWAY PLAN | |
| C6-08 | ROADWAY PLAN | |
| C6-09 | ROADWAY PLAN | |
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| C6-11 | ROADWAY PLAN | |
| C6-12 | ROADWAY PLAN | |
| C6-13 | ROADWAY PLAN | |
| C6-14 | ROADWAY PLAN | |
| C6-15 | ROADWAY PLAN | |
| C6-16 | ROADWAY PLAN | |
| C6-17 | ROADWAY PLAN | |
| C7-00 | ROADWAY DETAILS | 2 |
| C7-01 | ROADWAY DETAILS | |
| C8-00 | TRAFFIC CONTROL PLAN | |
| C9-00 | TRAFFIC CONTROL DETAILS | |

ISSUED FOR CONSTRUCTION

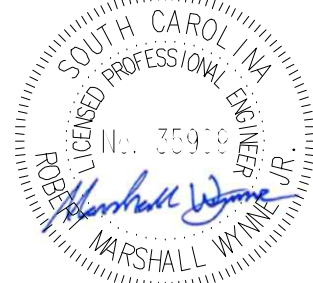
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| PER BID ADDENDUM #2 | RMW | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |

Revision By Appd YYYY.MM.DD

ISSUED FOR CONSTRUCTION RMW BK 2022.06.28
Issued By Appd YYYY.MM.DD

File Name: 1035_C0_COVER SGC SGC BK 2020.10.09
Dwn. Dgn. Chkd. YYYY.MM.DD

Permit/Seal



06/28/2022

| PROJECT CONTACTS | | | |
|------------------|---------------------------------------|----------------|------------------|
| SERVICE | MUNICIPALITY/UTILITY PROVIDER | CONTACT | PHONE |
| STORMWATER | GEORGETOWN COUNTY STORMWATER DIVISION | JACOB NESMITH | (843) - 545-3218 |
| WATER AND SEWER | TOWN OF ANDREWS PUBLIC WORKS | KETRICK PORTER | (803) - 760-0083 |
| POWER | SANTEE COOPER | JIM POSTON | (843) - 347-3399 |
| GAS | DOMINION ENERGY TRANSMISSION | DAVID ETHRIDGE | (843)-833-2460 |
| ROAD | SCDOT - PERMIT MANAGER | RYAN ANDERSON | (843)-546-2406 |

GENERAL NOTES:

1. OWNER: GEORGETOWN COUNTY
TRACY JONES
108 SCHREVEN STREET
GEORGETOWN, SC 29442
(843) 545-3258
2. ENGINEER: STANTEC CONSULTING SERVICES, INC
MARSHALL WYNNIE, P.E.
4960 CENTRE POINTE DR. SUITE 200
NORTH CHARLESTON, SC 29418
TEL: (843) 740-7700
3. BOUNDARY, TOPOGRAPHIC & EXISTING CONDITIONS INFORMATION TAKEN FROM "TOPOGRAPHIC SURVEY SHOWING VARIOUS RIGHT-OF-WAYS, ALLEYS AND EASEMENTS", PREPARED FOR STANTEC CONSULTING SERVICES, INC., BY PARKER LAND SURVEYING, LLC, DATED SEPTEMBER, 2020. VERTICAL DATUM USED WAS NAVD 88.
4. CRITICAL LINE FLAGGED BY ECS LLP, INC. ON AUGUST 10, 2020.
5. GEORGETOWN COUNTY WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY WETLAND IMPACT PERMITS.
6. WETLANDS, CRITICAL AREAS, OTHER INDICATED ENVIRONMENTALLY SENSITIVE AREAS AND UNDISTURBED BUFFERS SHALL NOT BE DISTURBED EXCEPT WHERE SPECIFICALLY INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS AND/OR AS AUTHORIZED BY THE USACE AND SCDHEC-OCRM.
7. GEORGETOWN COUNTY WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EASEMENTS.
8. ALL DRAINAGE EASEMENTS TO BE DEDICATED TO GEORGETOWN COUNTY.
9. CONTRACTOR IS TO VERIFY ALL INFORMATION CONTAINED HEREIN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OR OWNER OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.
10. ALL CONSTRUCTION, METHODS, MATERIALS, AND WORKMANSHIP, NOT OTHERWISE INDICATED IN THESE PLANS, SHALL CONFORM TO GEORGETOWN COUNTY SPECIFICATIONS, LATEST EDITION. WHERE CONFLICT OCCURS BETWEEN CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR FIELD CONDITIONS, CONTRACTOR IS TO CONTACT ENGINEER OR OWNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
11. CONTRACTOR TO COORDINATE WITH OWNER AND ENSURE ALL APPLICABLE CONSTRUCTION AND LAND DISTURBANCE PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING ANY WORK.
12. CONTRACTOR TO NOTIFY TOWN OF ANDREWS PUBLIC WORKS A MINIMUM OF 48 HOURS BEFORE ANY WATER OR SEWER WORK IS TO BEGIN.

TRAFFIC NOTES:

1. LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK FROM ONE FOOT TO FIFTEEN FEET FROM THE TRAVEL WAY.

SEQUENCE OF CONSTRUCTION:

1. RECEIVE NPDES COVERAGE FROM SCDHEC.
2. NOTIFY SCDOT, PRE-CONSTRUCTION MEETING.
3. NOTIFY DHEC EOC REGIONAL OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
4. INSTALLATION OF TREE PROTECTION, PERIMETER SILT FENCE, AND EROSION CONTROL MEASURES.
5. POTHOLE UTILITY LOCATIONS AS SHOWN ON THE PLANS, LOCATE SEWER SERVICES FOR EACH RESIDENCE, AND NOTIFY OWNER/ENGINEER OF CONFLICTS.
6. INSTALLATION OF COFFERDAMS (AS REQUIRED)
7. INSTALLATION OF NEW STORMWATER PIPES AND STRUCTURES.
8. CONSTRUCT DIVERSION SWALES AS NECESSARY TO CONVEY THE STORM WATER BEFORE THE PROPOSED STORM DRAINAGE SYSTEM IS FULLY FUNCTIONAL, INSTALLING SEDIMENT TUBES IF NECESSARY.
9. INSTALL PERIMETER SILT FENCE WHERE SEDIMENT IS OBSERVED TO BE LEAVING CONSTRUCTION AREAS. MAINTAIN PERIMETER SILT FENCE, DIVERSIONS, AND SEDIMENT TUBES.
10. PERMANENT/FINAL STABILIZATION OF DITCHES/SWALES WITH SEEDING AND/OR SOD.
11. REPLACE DAMAGED OR DEMOLISHED HARDSCAPE AND LANDSCAPE IN-KIND AS REQUIRED.
12. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.
13. CONTACT GEORGETOWN COUNTY FOR FINAL INSPECTION AND CLOSE-OUT OF PROJECT. AS-BUILT, VIDEO AND CLOSE-OUT APPLICATION TO BE SUBMITTED FOR REVIEW AND APPROVAL AS REQUIRED BY GEORGETOWN COUNTY.
14. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE WORK AREA IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARED OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).
15. SUBMIT TO DHEC FOR N.O.T. WITHIN 30 DAYS OF FINAL STABILIZATION.

SAFETY NOTES:

1. DURING THE CONSTRUCTION AND MAINTENANCE OF THE THIS PROJECT, ALL SAFETY REGULATIONS SHALL BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
2. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY THE SCDOT AND APPLICABLE LOCAL AGENCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
4. CONTRACTOR SHALL PROVIDE AND MAINTAIN HIS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH HIS HEALTH AND SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTORS' EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
5. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AN REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
6. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
7. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. ALL SOUTH CAROLINA AMENDMENTS SHALL APPLY.
8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATION. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATION.
9. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
10. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.

CLEARING AND DEMOLITION:

1. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION.
2. UPON COMPLETION OF ANY WORK WITHIN AN EASEMENT, THE DISTURBED EASEMENT AREA WILL BE LEFT IN A CLEAN AND REASONABLY RESTORED CONDITION, INCLUDING REPAIR OR REPLACEMENT OF DAMAGED STRUCTURES, FENCES, OR LANDSCAPING, SO LONG AS THE SAME DOES NOT INTERFERE WITH THE EASEMENT AND PURPOSES STATED HEREIN. ANY REPLACEMENT SHALL BE OF A SIMILAR OR LIKE KIND, BUT NOT NECESSARILY OF THE SAME SIZE OR MATURITY.
3. THE TOP 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER OR THE OWNER'S ENGINEER. UNLESS OTHERWISE DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER, THE REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.
4. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS OR AS DIRECTED BY THE OWNER.

SHOP DRAWING SUBMITTAL:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER'S ENGINEER; 2 SETS OF HARD COPIES AND 1 ELECTRONIC FOR REVIEW.
- 1.1. THE CONTRACTOR, OR THE CONTRACTORS SUPPLIER, MUST INCLUDE WITH THE SHOP DRAWING SUBMITTAL A REFERENCE TO THE GOVERNING MUNICIPALITIES STANDARDS SHOWING COMPLIANCE WITH SAID MUNICIPALITIES REQUIREMENTS.
- 1.1.1. I.e. SHOP DRAWING SUBMITTAL FOR A FIRE HYDRANT SHALL INCLUDE A REFERENCE TO "CHARLESTON WATER SYSTEM - MINIMUM STANDARDS FOR THE DESIGN AND CONSTRUCTION OF WATER AND SANITARY SEWER SYSTEM - SECTION 10 B.1.0". OR MORE SIMPLY "CWS - 10 B.1.0"
- 1.1.2. THIS SHALL BE COMPLETED FOR EVERY SUBMITTAL TO ASSURE AN EXPEDITED REVIEW OF SHOP DRAWINGS.
2. SHOP DRAWINGS WILL BE REVIEWED AND RETURNED TO THE CONTRACTOR WITHIN 15 BUSINESS DAYS FROM CONFIRMED RECEIPT BY THE OWNER OR THE OWNERS ENGINEER.
3. SHOP DRAWINGS NOT RECEIVED IN THE PROPER FORMAT WILL BE RETURNED TO THE CONTRACTOR FOR REVISIONS PRIOR TO REVIEW.

AS-BUILT NOTE:

THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE SITE (TIED TO THE STATE PLANE COORDINATE SYSTEM), TO INCLUDE ALL STORM DRAINAGE LINES, BOTH EXISTING AND NEWLY INSTALLED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS. IN COMPLIANCE WITH THE GEORGETOWN COUNTY REQUIREMENTS AND NPDES PERMIT.

NO GEOTECHNICAL REPORT:

1. ASPHALT/PAVEMENT SECTIONS SHOWN ON PLANS AND DETAILS ARE ASSUMED AND SHALL BE VERIFIED WITH GEOTECHNICAL ANALYSIS BY THE CONTRACTOR PRIOR TO INSTALLATION.
2. CONTRACTOR TO ASSUME 12 INCHES OF UNDERCUT AND BACKFILL TO BRING TO GRADE.
3. OWNER TO PROCURE GEOTECHNICAL REPORT.

WATER AND SEWER NOTES:

1. ALL WATER AND SEWER RELOCATIONS SHALL COMPLY WITH GEORGETOWN COUNTY WATER AND SEWER DISTRICT (GCWSD) LATEST GUIDELINES AND STANDARDS.
2. SEE DETAILS FOR TYPICAL UTILITY CROSSING REQUIREMENTS.
3. CONTRACTOR TO COORDINATE PRE-CONSTRUCTION MEETING WITH TOWN OF ANDREWS PUBLIC WORKS BEFORE UTILITY RELOCATIONS COMMENCE.
4. WATER LINE AND WASTEWATER UTILITY LINE SHALL BE PVC UNLESS VERTICAL SEPARATION DISTANCE BETWEEN STORMWATER LINE IS LESS THAN 18". THEN USE DIP.
5. ALL UTILITY LINES SHALL BE CENTERED TO ALLOW FOR THE GREATEST DISTANCE BETWEEN PIPE JOINTS.
6. MATERIAL BETWEEN LINES SHALL BE COMPACTED TO PREVENT SETTLING OF ABOVE PIPING.
7. USE PVC UNLESS SEPARATION DISTANCE BETWEEN WATER AND SANITARY SEWER LINE IS LESS THAN 18". IF SEPARATION DISTANCE CANNOT NOT BE MAINTAINED, THEN USE D.I.P.
8. WHEN POSSIBLE, POTABLE WATER LINE SHALL CROSS ABOVE SANITARY SEWER LINE.

PAVING AND GRADING

1. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAR, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNERS SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER OR THE OWNERS ENGINEER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND UTILITIES ARE BEING PLACED.
3. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNERS SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS REPORT.
4. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
5. UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO SCOT STANDARD SPECIFICATIONS, LATEST EDITION.
6. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE APPROPRIATE MUNICIPAL AUTHORITY OR AS SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS.
7. STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
8. IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, COMPACT SUBGRADE TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO M 1-180.
9. ALL FILLS WITHIN PUBLIC RIGHT-OF-WAYS AND EASEMENTS SHALL BE ENGINEERED. ADDITIONALLY, ANY FILLS OUTSIDE OF PUBLIC RIGHT-OF-WAYS WHICH ARE OVER 2 FEET IN DEPTH SHALL BE ENGINEERED. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 8" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR).
10. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN. FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.
11. CRUSHED ROCK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 0203 (BASE AGGREGATE) SCOT STANDARD SPECIFICATIONS. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR). A C PAVEMENT SHALL CONFORM TO SECTION 0404 (ASPHALT CONCRETE PAVEMENT) SCOT STANDARD SPECIFICATIONS FOR STANDARD DUTY MIX. A C PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 91% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD.
12. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEAOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA WHEREIN THEY LIE.
13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.
14. ENGINEERED FILL MATERIAL SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE AND OTHER UNSUITABLE MATERIALS AND SHALL BE APPROVED BY GEOTECHNICAL ENGINEER.
15. IMPORTED SOILS FOR USE AS ENGINEERED FILL SHALL BE NON-EXCLUSIVE MATERIALS AND SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE, AND OTHER UNSUITABLE MATERIALS.
16. AGGREGATE BASE MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

| SIEVE SIZE (PER ASTM D422) | PERCENT PASSING BY WEIGHT |
|----------------------------|---------------------------|
| 1 INCH | 100 |
| 3/4 | 90-100 |
| No. 8 | 35-55 |
| No. 200 | 0-8 |

| ENGINEERED FILL MATERIAL | MINIMUM PERCENT COMPACTION | MOISTURE CONTENT (RANGE) |
|---|----------------------------|----------------------------|
| NATIVE SOIL | 90% | OPTIMUM TO OPTIMUM PLUS 3% |
| ENGINEERED FILL UNDER STRUCTURES AND BEHIND RETAINING WALLS | 95% | OPTIMUM TO OPTIMUM PLUS 3% |
| ENGINEERED FILL UNDER PAVEMENTS | 95% | OPTIMUM TO OPTIMUM PLUS 2% |
| FILL IN LANDSCAPE AREAS | 95% | 2 TO 5% ABOVE OPTIMUM |

- AGGREGATE BASE COURSE SHALL BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT, PER AASHTO T180 (MODIFIED PROCTOR)

| ENGINEERED FILL MATERIAL | MINIMUM PERCENT COMPACTION | MOISTURE CONTENT (RANGE) |
|--|----------------------------|--------------------------|
| AGGREGATE BASE MATERIAL OR IMPORTED GRANULAR SOIL IN BUILDING AND PAVEMENT AREAS | 100% | OPTIMUM PLUS OR MINUS 2% |

- NOTE: MOISTURE CONTENT OF ENGINEERED FILL MATERIAL MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION TO PREVENT SOIL PUMPING.

18. ENGINEERED FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6 INCHES THICK (LOOSE).
19. THE TOP 6 INCHES OF SOIL EXPOSED AT THE BOTTOM OF THE EXCAVATIONS SHALL BE COMPACTED, SCARIFIED AND COMPACTED AS ENGINEERED FILL PRIOR TO PLACEMENT OF ADDITIONAL FILL.
20. IF SOFT OR LOOSE SOIL IS PRESENT AT THE BASE OF EXCAVATIONS, IT SHALL BE EXCAVATED AND/OR COMPACTED AS ENGINEERED FILL OR AS RECOMMENDED BY THE GEOTECHNICAL FIELD REPRESENTATIVE.
21. IF SUBGRADE SOILS EXHIBIT PUMPING DURING COMPACTION, THE AREA SHALL BE ALLOWED TO DRY UNTIL THE SOLIDS BECOME WORKABLE WITHOUT PUMPING. THE MOISTURE CONTENT OF THE SOILS SHALL BE ADJUSTED TO PREVENT PUMPING.
22. EXPOSURE TO THE ENVIRONMENT MAY REDUCE THE STRENGTH OF SOILS IN PAVED AREAS. IF THIS OCCURS, THE SOFTENED SOILS SHALL BE REMOVED AND REWORKED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. IF RAINFALL IS EXPECTED AT A TIME WHEN BEARING SOILS IN FOOTING AREAS ARE EXPOSED, A 2 TO 4 INCH THICK LAYER OF LEAN CONCRETE MAY BE PLACED IN SUCH AREA.
23. THE SITE SHALL BE GRADED TO TRANSPORT SURFACE RUNOFF AWAY FROM THE PAVED AREAS. WATER SHALL NOT BE ALLOWED TO ACCUMULATE (POND) ON PAVED AREAS.
24. BACKFILL AND FILL SHALL CONFORM TO THE GENERAL REQUIREMENTS FOR SOIL. MATERIALS ABOVE AND SHALL BE CLASSIFIED AS GW, GP, GM, GC, SW, SP, SM, SC, ML, CL BY ASTM D2487 AND SHALL CONFORM TO THE FOLLOWING:
- 24.1. SHALL BE CAPABLE OF BEING COMPACTED TO THE SPECIFIED DEGREE OF COMPACTION WHEN THE MOISTURE CONTENT IS WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM PERCENT MOISTURE.
- 24.2. LIQUID LIMIT SHOULD NOT EXCEED 40 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318.
- 24.3. PLASTICITY INDEX SHOULD NOT BE GREATER THAN 30 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318.
- 24.4. NO MORE THAN 75 PERCENT BY WEIGHT SHALL BE FINER THAN NO. 200 SIEVE WHEN TESTED IN ACCORDANCE WITH ASTM D1140.
25. UNSUITABLE SOIL SHALL BE ANY SOIL MATERIALS DETERMINED BY THE INDEPENDENT GEOTECHNICAL LABORATORY AS NOT CONFORMING TO THE REQUIREMENTS DESCRIBED ABOVE FOR BACKFILL AND FILL. A MOISTURE CONTENT WHICH IS MORE THAN 3 PERCENTAGE POINTS FROM OPTIMUM SHALL NOT BE CONSIDERED UNSUITABLE IF SUCH MATERIALS WOULD OTHERWISE BE SUITABLE IF THE MOISTURE CONTENT WERE ADJUSTED. ADJUSTMENTS TO THE SOIL MOISTURE CONTENT BY DRYING, MIXING, ADDING WATER, OR OTHER MEANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
26. MEASUREMENT OF UNSUITABLE MATERIAL: THE VOLUME OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY A LICENSED SURVEYOR BY THE AVERAGE END AREA METHOD. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCALED PLAN WITH SUFFICIENT ELEVATION POINTS TO ACCURATELY DEFINE THE VOLUME OF UNSUITABLE MATERIAL EXCAVATED. THE EXTENT OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY THE INDEPENDENT GEOTECHNICAL LABORATORY.

DRAINAGE NOTES:

1. ALL NEW STORM PIPES, BEDDING, TRENCHING, STORM BOXES, ETC. IN THE RIGHTS-OF-WAY AND/OR CITY OWNED AND MAINTAINED DRAINAGE EASEMENTS SHALL BE INSTALLED PER CURRENT SCOT SPECIFICATIONS, LOCATED ON THE INTERNET AT http://www.scdot.org/dot/construction_standardspec.aspx. STANDARD SCDOT DETAIL DRAWINGS CAN BE LOCATED AT THE FOLLOWING WEBSITE: http://www.scdot.org/dot/construction_standardspec.aspx.
2. ALL REINFORCED CONCRETE PIPE SHALL, AT A MINIMUM, BE ASTM C78, CLASS III.
3. REINFORCED CONCRETE PIPE INSTALLED UNDER PAVEMENT AND/OR PARALLEL TO THE EDGE OF PAVEMENT IN PUBLIC RIGHTS-OF-WAY SHALL HAVE O-RING JOINTS IN ACCORDANCE WITH ASTM C443 AND/OR AASHTO M315. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
4. SUBMERGED DRAINAGE SYSTEMS SHALL HAVE O-RING JOINTS IN ACCORDANCE WITH ASTM C C443 AND/OR AASHTO M315. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
5. WHERE TONGUE AND GROOVE STORM PIPE IS ALLOWED, REINFORCED CONCRETE PIPE SHALL BE PER ASTM C 78, CLASS III. JOINTS SHALL BE SEALED WITH RAMMECK OR EQUIVALENT PER AASHTO M198. THE JOINTS SHALL BE SECURELY WRAPPED WITH FILTER FABRIC 18" IN WIDTH.
6. ALL NEW STORM DRAINAGE LINES SHALL BE LAID UPGRADE AFTER CONFIRMATION OF EXISTING INVERT ELEVATION.
7. GEORGETOWN COUNTY MAINTAINS THE RIGHT TO ALLOW ALTERNATE PIPE INSTALLATIONS OR TYPE OF PIPE FOR ALL PROJECTS ON A CASE-BY-CASE BASIS FOR ANY PIPES TO BE INSTALLED IN AN EXISTING OR PROPOSED CITY ROAD RIGHT-OF-WAY AND/OR DRAINAGE EASEMENT.
8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND CENTER TO CENTER ON DRAINAGE STRUCTURES OR TO END OF PIPE. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO SUBMITTAL OF BID.
9. ALL STORM DRAIN PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNERS ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS.
10. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.
11. FOR CONSTRUCTION OF THE DROP INLET WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6" THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE 8" THICK.
12. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 8 IN. THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET.
13. MORTAR SHALL BE TYPE S OR M.
14. IF DESIRED THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE SCDOT STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
15. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.
16. IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP STANDARD DRAWING 719-16.
17. CASTING SHALL CONFORM TO AASHTO M 105, CLASS 35B AND THE ALTERNATE LOAD TEST OF AASHTO M 306. CASTINGS SHALL ALSO MEET THE LOADING REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION).
- a. STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON SCDOT LIST OF APPROVED SUPPLIERS.
- b. STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
- c. STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN, MUST HAVE A POSITIVE MEANS TO RETAIN THE GRATE IN THE FRAME.
- d. STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION).
18. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN THE DIRECTION OF FLOW IF PRACTICAL.
19. AS SHOWN BY THIS DRAWING THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS.
20. AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE AS SHOWN BY DRAWING.
21. THE INSIDE OF THE OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN, UNLESS OTHERWISE SHOWN ON PLANS (SUMP).
22. THE SOFFIT (INSIDE TOP OF PIPE) OF THE OUTLET PIPE SHOULD BE NO HIGHER THAN THE SOFFIT OF THE INLET PIPE, UNLESS OTHERWISE SHOWN ON PLANS.
23. SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE MATERIAL, THEN THE CONTRACTOR WILL ENGAGE AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY UNSUITABLE MATERIAL AND MAKE RECOMMENDATIONS ON THE REMOVAL AND THE PLACEMENT AND TYPE OF NEW BEDDING AND BACKFILL MATERIAL. THE RECOMMENDATIONS BY THE INDEPENDENT GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE OWNER AND CIVIL ENGINEER FOR CONCURRENCE PRIOR TO PROCEEDING WITH WORK.

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 SOLE 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 MEASURE 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 INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 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 OFF-SITE 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 ON PAVED ROADWAYS(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 CANT. 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 (3:1 V 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.
- 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 BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SCS'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMP'S 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-URBAN PROJECTS WITHIN 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.



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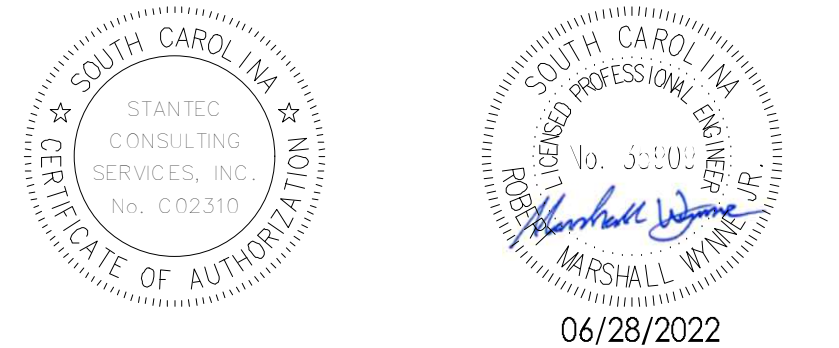
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| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| ISSUED FOR CONSTRUCTION | R/W | BK | 2022.06.28 |
| Issued | By | Aspd | YYYY.MM.DD |

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Client/Project
GEORGETOWN COUNTY

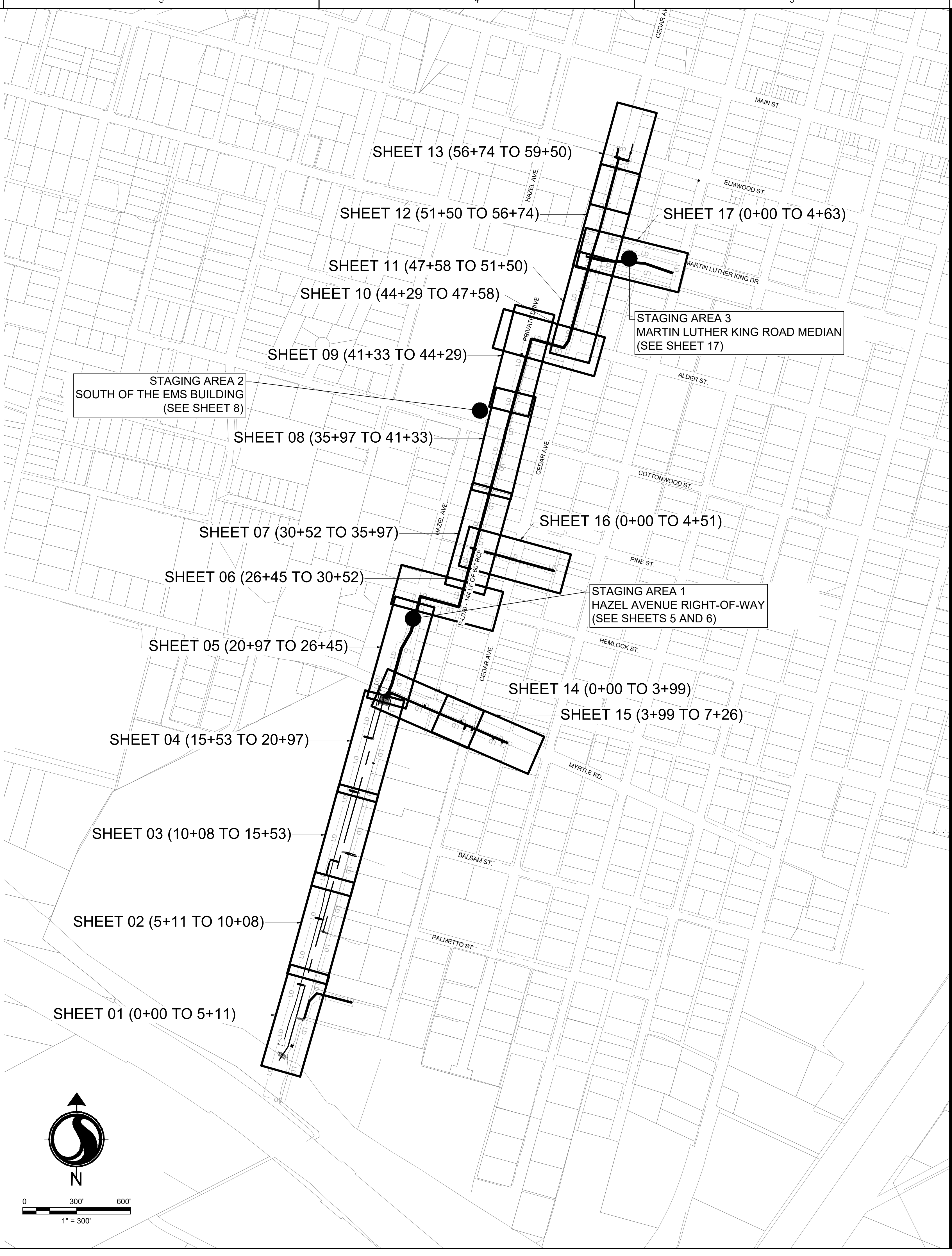
TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
PROJECT NOTES

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision 1 | Sheet C0-01 of 65 |
| | Drawing No. C0-01 |

STAGING NOTES:
1. STAGING AREAS ARE PROVIDED AS POSSIBLE OPTIONS ONLY. PERMISSION AND APPROVAL REQUIRED FROM THE TOWN OF ANDREWS AND GEORGETOWN COUNTY BEFORE AREAS ARE UTILIZED.
2. CONTRACTOR TO COORDINATE WITH TOWN OF ANDREWS AND GEORGETOWN COUNTY ON PREFERRED STAGING AREAS.
3. CONTRACTOR TO RESTRICT ACCESS TO STAGING AREAS WITH MINIMUM 6 FOOT CHAIN LINK FENCE AND LOCKED ACCESS GATE.
4. CONTRACTOR SHALL HYDROSEED AND REPAIR ANY DISTURBED AREA DUE TO STAGING AND LAYDOWN ACTIVITY.



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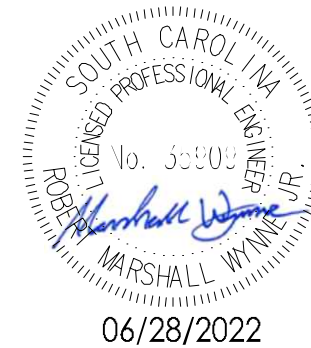
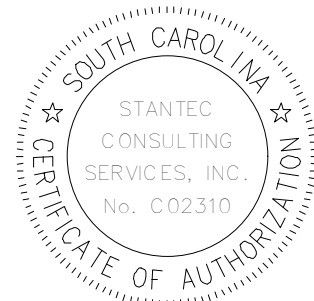
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| Revision | By | Appd | YYYY.MM.DD |

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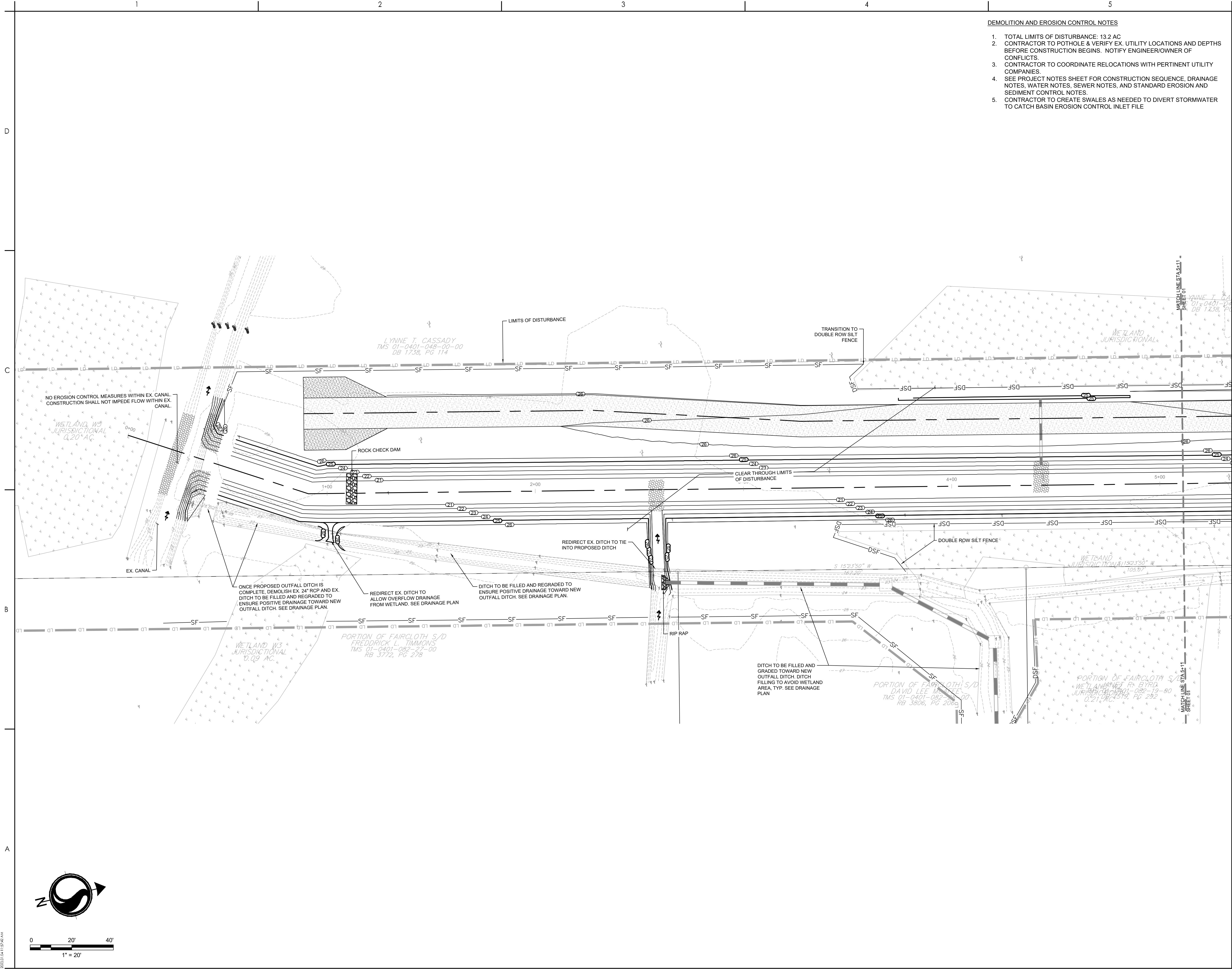
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
SHEET INDEX AND STAGING AREAS

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision --- | Sheet C2-00 of 65 |
| | Drawing No. C2-00 |



DEMOLITION AND EROSION CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
2. CONTRACTOR TO POTHOLE & VERIFY EX. UTILITY LOCATIONS AND DEPTHS BEFORE CONSTRUCTION BEGINS. NOTIFY ENGINEER/OWNER OF CONFLICTS.
3. CONTRACTOR TO COORDINATE RELOCATIONS WITH PERTINENT UTILITY COMPANIES.
4. SEE PROJECT NOTES SHEET FOR CONSTRUCTION SEQUENCE, DRAINAGE NOTES, WATER NOTES, SEWER NOTES, AND STANDARD EROSION AND SEDIMENT CONTROL NOTES.
5. CONTRACTOR TO CREATE SWALES AS NEEDED TO DIVERT STORMWATER TO CATCH BASIN EROSION CONTROL INLET FILE



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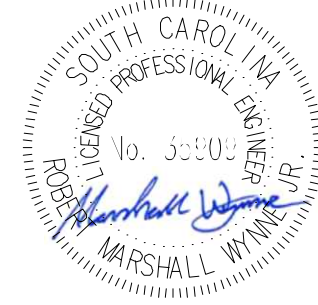
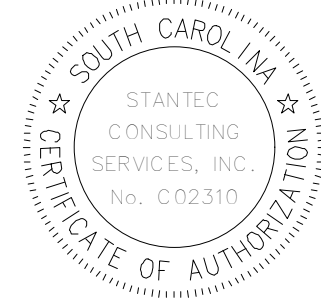
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- LD LIMITS OF DISTURBANCE
- TS EXISTING CONTOURS
- TS PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DR DRAINAGE FLOW ARROW
- JH SILT FENCE J-HOOK
- X TREE DEMOLITION
- SD STRUCTURE DEMOLITION
- RD ROCK CHECK DAM
- DEMO PIPE DEMOLITION
- ST SEDIMENT TUBE
- A TYPE A INLET PROTECTION
- TS TEMPORARY SEEDING
- M MULCHING
- DC DUST CONTROL
- PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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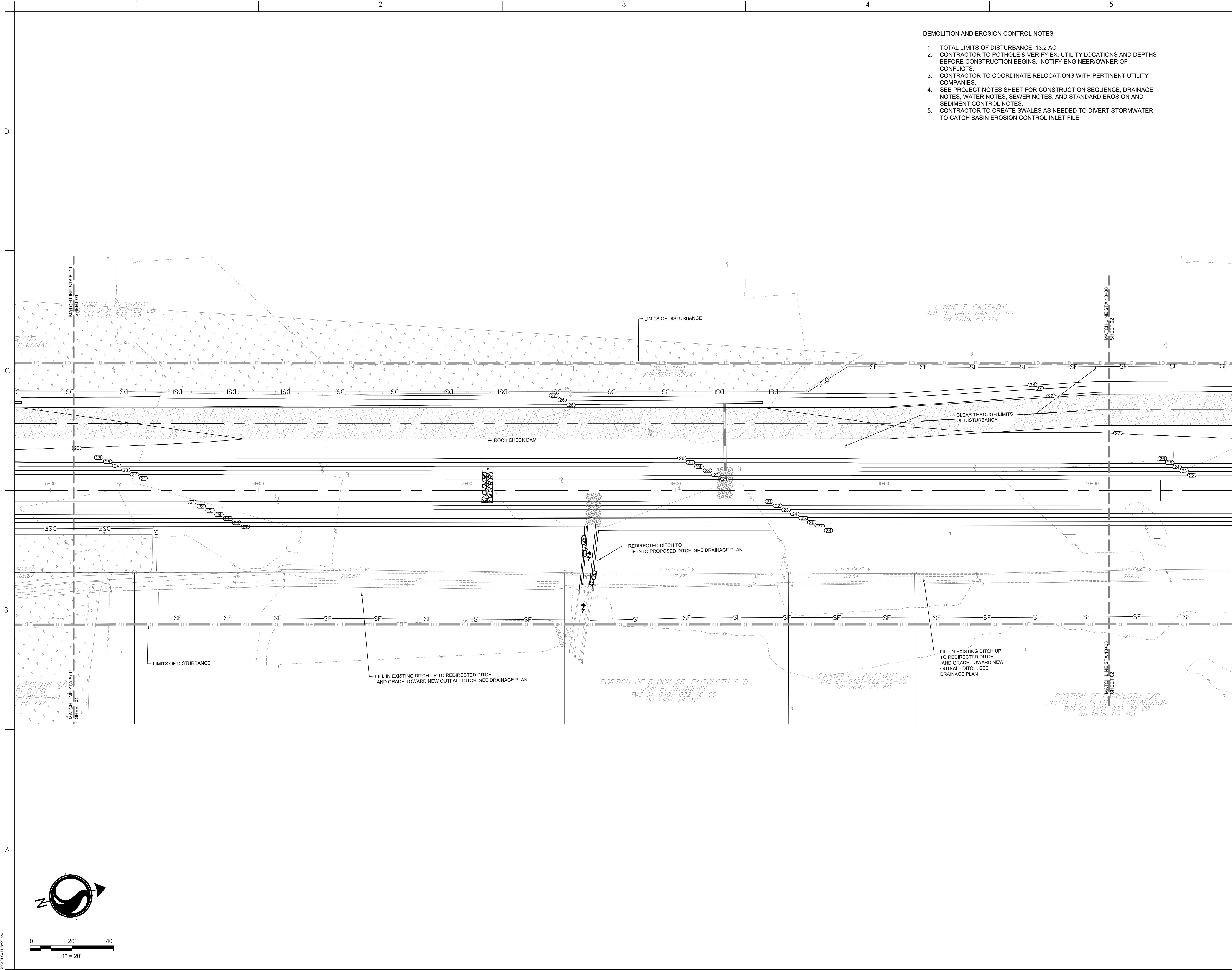
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | |
|-------------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision Sheet C2-01 of 65 | Drawing No. C2-01 |



- DEMOLITION AND EROSION CONTROL NOTES
1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
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Legend

- LD LIMITS OF DISTURBANCE
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- DEMO PIPE DEMOLITION
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A TYPE A INLET PROTECTION

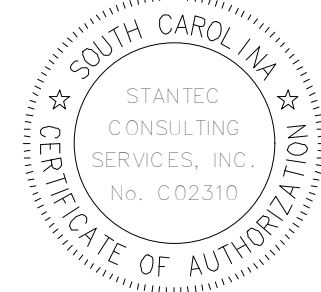
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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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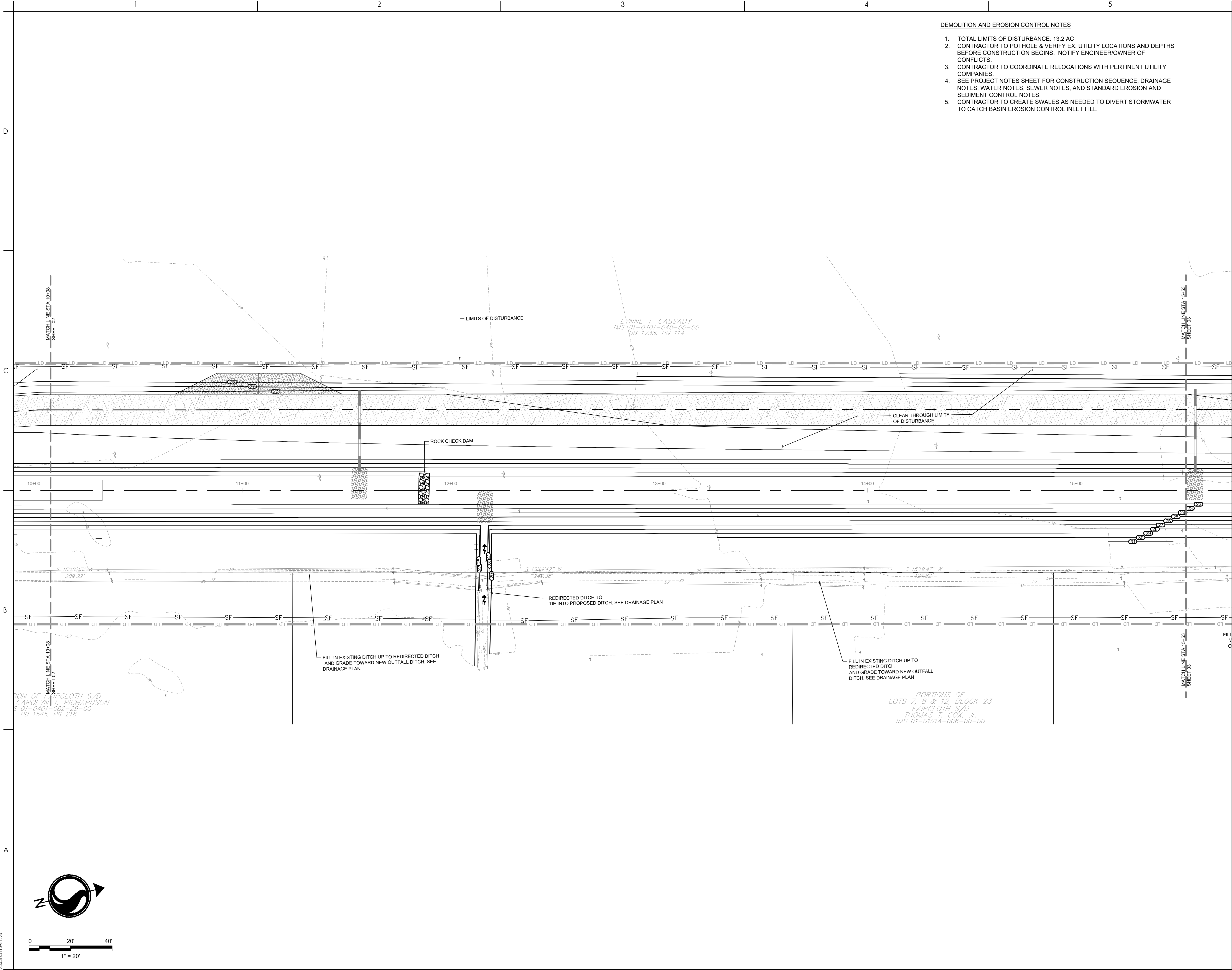
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision C2-02 of 65 | Drawing No. C2-02 |



DEMOLITION AND EROSION CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
2. CONTRACTOR TO POTHOLE & VERIFY EX. UTILITY LOCATIONS AND DEPTHS BEFORE CONSTRUCTION BEGINS. NOTIFY ENGINEER/OWNER OF CONFLICTS.
3. CONTRACTOR TO COORDINATE RELOCATIONS WITH PERTINENT UTILITY COMPANIES.
4. SEE PROJECT NOTES SHEET FOR CONSTRUCTION SEQUENCE, DRAINAGE NOTES, WATER NOTES, SEWER NOTES, AND STANDARD EROSION AND SEDIMENT CONTROL NOTES.
5. CONTRACTOR TO CREATE SWALES AS NEEDED TO DIVERT STORMWATER TO CATCH BASIN EROSION CONTROL INLET FILE



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Legend

- LD LIMITS OF DISTURBANCE
- TS EXISTING CONTOURS
- PS PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DR DRAINAGE FLOW ARROW
- JH SILT FENCE J-HOOK
- X TREE DEMOLITION
- SD STRUCTURE DEMOLITION
- RD ROCK CHECK DAM
- DEMO PIPE DEMOLITION
- ST SEDIMENT TUBE

A TYPE A INLET PROTECTION

TS TEMPORARY SEEDING

M MULCHING

DC DUST CONTROL

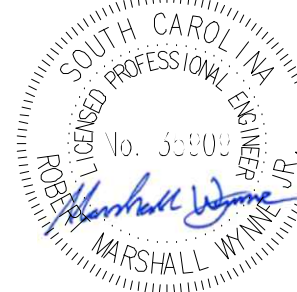
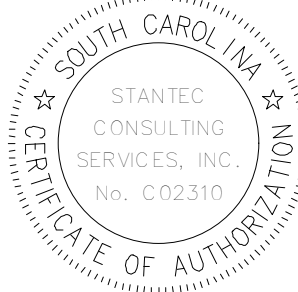
PS PERMANENT STABILIZATION

| | | | |
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| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| Issued | By | Aspd | YYYY.MM.DD |

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| | Dwn. | Dsgn. | Chkd. | YYYY.MM.DD |

Permit/Seal



06/28/2022

Client/Project Logo

Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

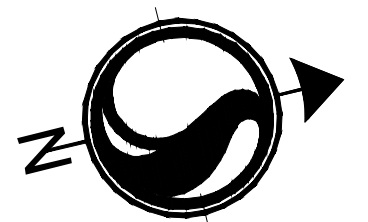
Project No.
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Scale

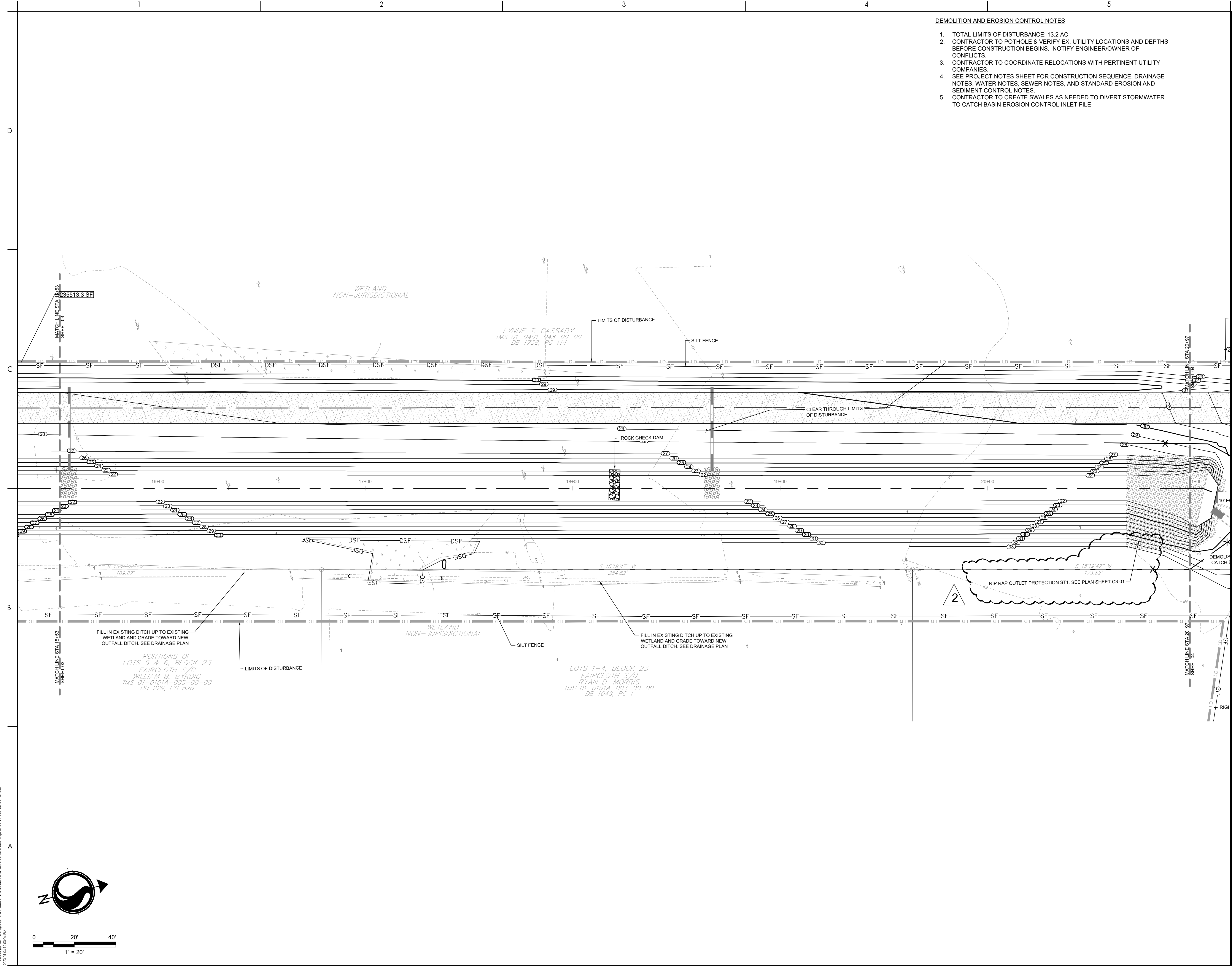
Revision Sheet
C2-03 of 65

Drawing No.

C2-03



0 20' 40'
1" = 20'



- DEMOLITION AND EROSION CONTROL NOTES
1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
 2. CONTRACTOR TO POT HOLE & VERIFY EX. UTILITY LOCATIONS AND DEPTHS BEFORE CONSTRUCTION BEGINS. NOTIFY ENGINEER/OWNER OF CONFLICTS.
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- Legend
- LD LIMITS OF DISTURBANCE
 - TS EXISTING CONTOURS
 - 25 PROPOSED CONTOUR
 - SF SILT FENCE
 - DSF DOUBLE ROW SILT FENCE
 - DR DRAINAGE FLOW ARROW
 - JH SILT FENCE J-HOOK
 - X TREE DEMOLITION
 - SD STRUCTURE DEMOLITION
 - RD ROCK CHECK DAM
 - DEMO PIPE DEMOLITION
 - ST SEDIMENT TUBE
 - A TYPE A INLET PROTECTION
 - TS TEMPORARY SEEDING
 - M MULCHING
 - DC DUST CONTROL
 - PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Appd | YYYY.MM.DD |

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| File Name: 1035_C2_DEMO_ESC | SGC | BK | 2020.10.09 |
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| | | | YYYY.MM.DD |

Permit/Seal



06/28/2022

Client/Project Logo

Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | |
|--------------------------|-------------------------------|
| Project No. 178421035 | Scale |
| Revision C2-04 of 65 | Sheet Drawing No. C2-04 |

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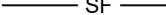






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Legend

| | |
|---|-----------------------|
|  | LIMITS OF DISTURBANCE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | SILT FENCE J-HOOK |
|  | TREE DEMOLITION |
|  | STRUCTURE DEMOLITION |
|  | ROCK CHECK DAM |
|  | PIPE DEMOLITION |
|  | SEDIMENT TUBE |

A TYPE A INLET PROTECTION

(TS) TEMPORARY SEEDING

M MULCHING

(DC) DUST CONTROL

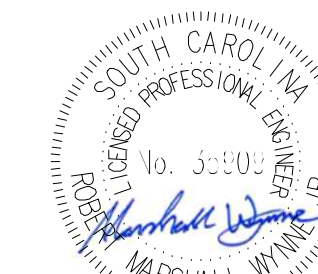
PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #2 | RMW | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |
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| Issued | By | Appd | YYYY.MM.DD |

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| File Name: 1035_C2_DEMO_ESC | SGC | SGC | BK | 2020.10.09 |
| | Dwn. | Dsn. | Chkd. | YYYY.MM.DD |

Permit/Seal



06/28/2022

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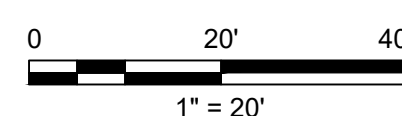
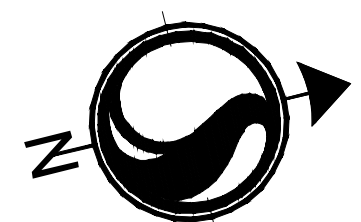
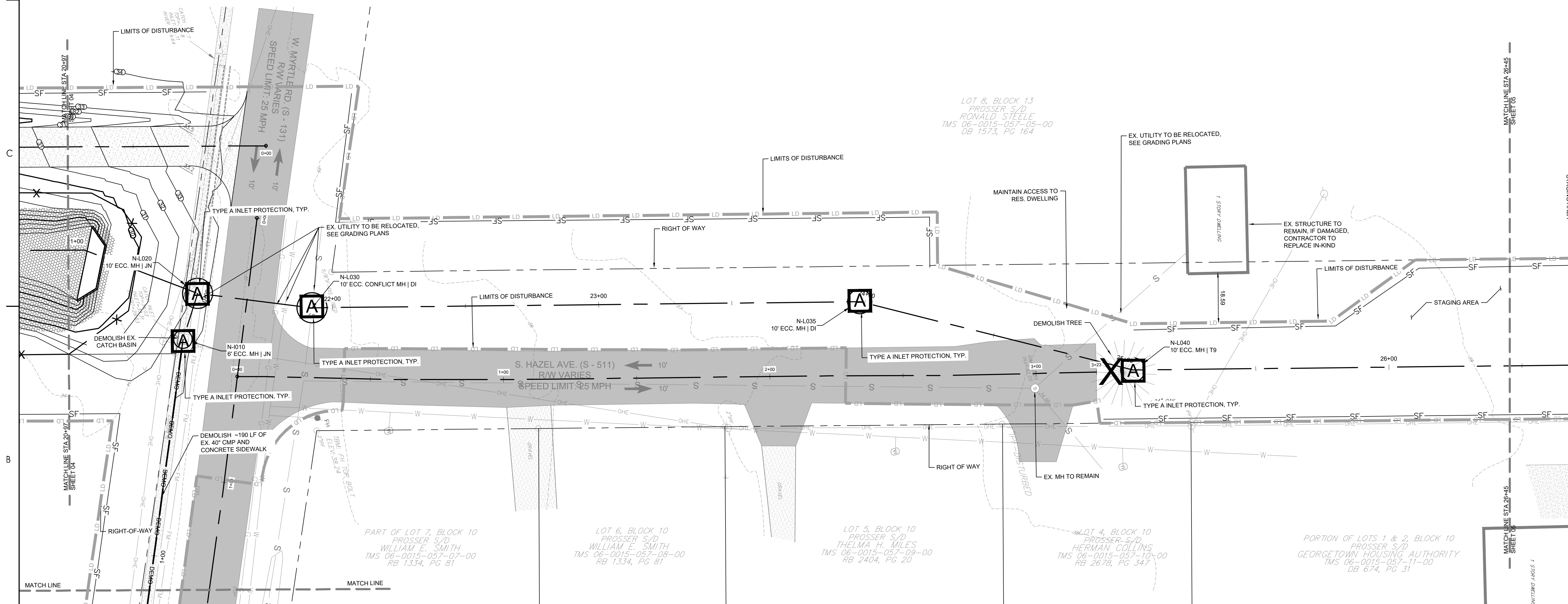
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | | |
|--------------------------|----------------------|-----------------------------|
| Project No. 178421035 | | Scale |
| Revision | Sheet C2-05 of 65 | Drawing No. C2-05 |





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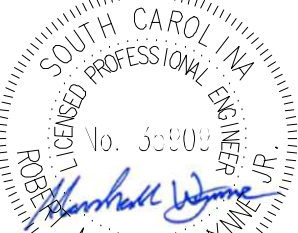
Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- SILT FENCE J-HOOK
- X TREE DEMOLITION
- STRUCTURE DEMOLITION
- ROCK CHECK DAM
- DEMO PIPE DEMOLITION
- ST SEDIMENT TUBE
- A TYPE A INLET PROTECTION
- TS TEMPORARY SEEDING
- M MULCHING
- DC DUST CONTROL
- PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| | | | 2020.10.09 |
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

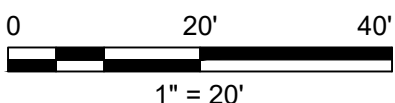
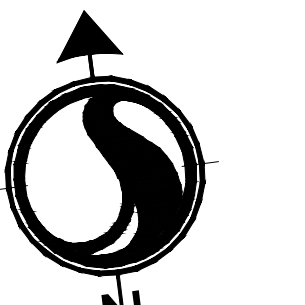
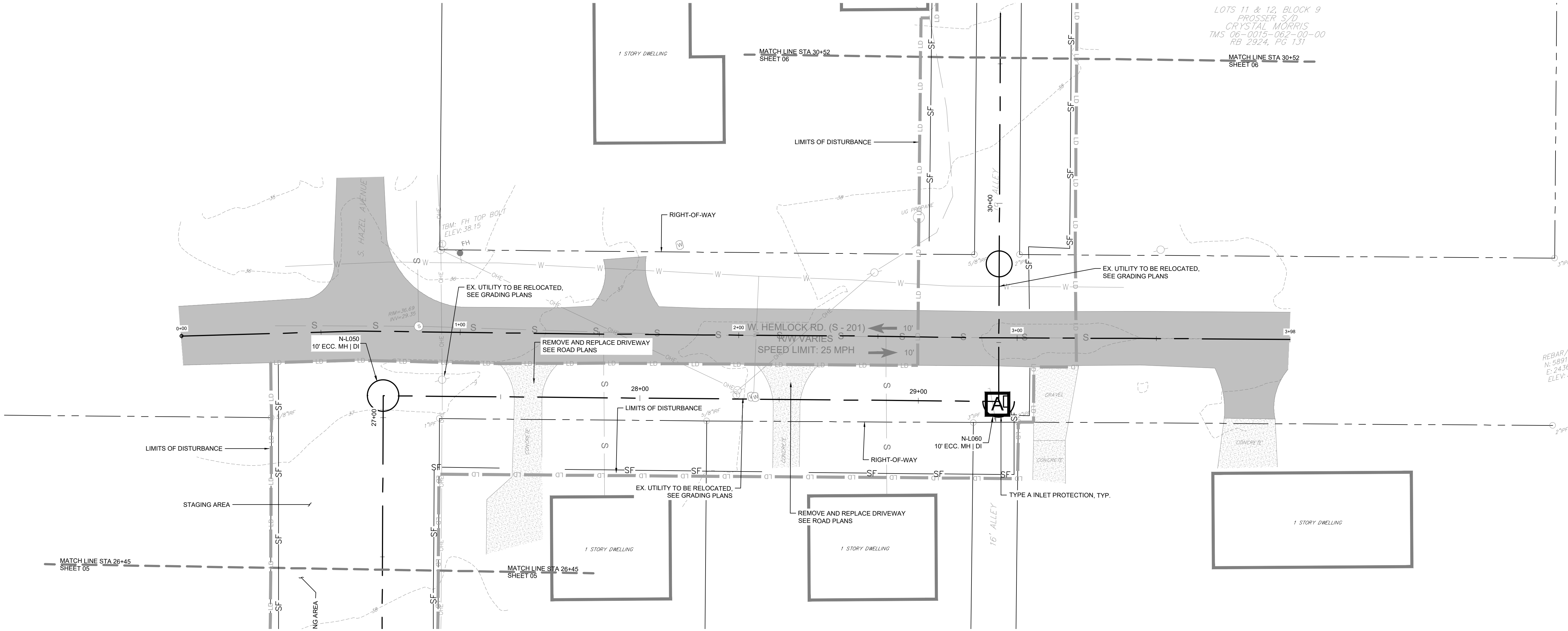
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision C2-06 of 65 | Drawing No. C2-06 |

DEMOLITION AND EROSION CONTROL NOTES

- TOTAL LIMITS OF DISTURBANCE: 13.2 AC
- CONTRACTOR TO POTHOLE & VERIFY EX. UTILITY LOCATIONS AND DEPTHS BEFORE CONSTRUCTION BEGINS. NOTIFY ENGINEER/OWNER OF CONFLICTS.
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- CONTRACTOR TO CREATE SWALES AS NEEDED TO DIVERT STORMWATER TO CATCH BASIN EROSION CONTROL INLET FILE



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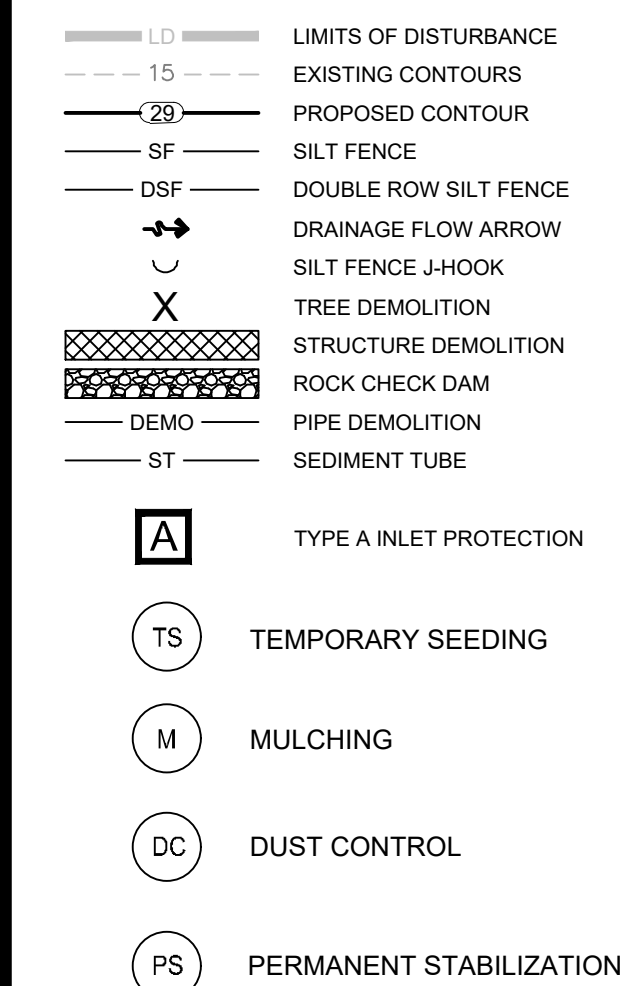
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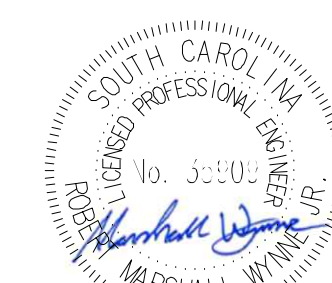
Legend



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| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |
| Revision | By | Appd | YYYY.MM.DD |

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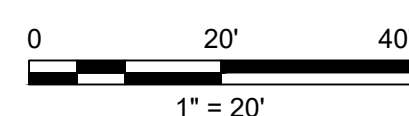
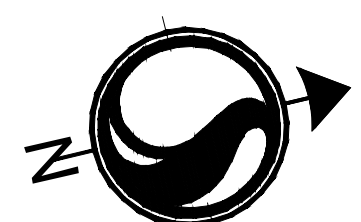
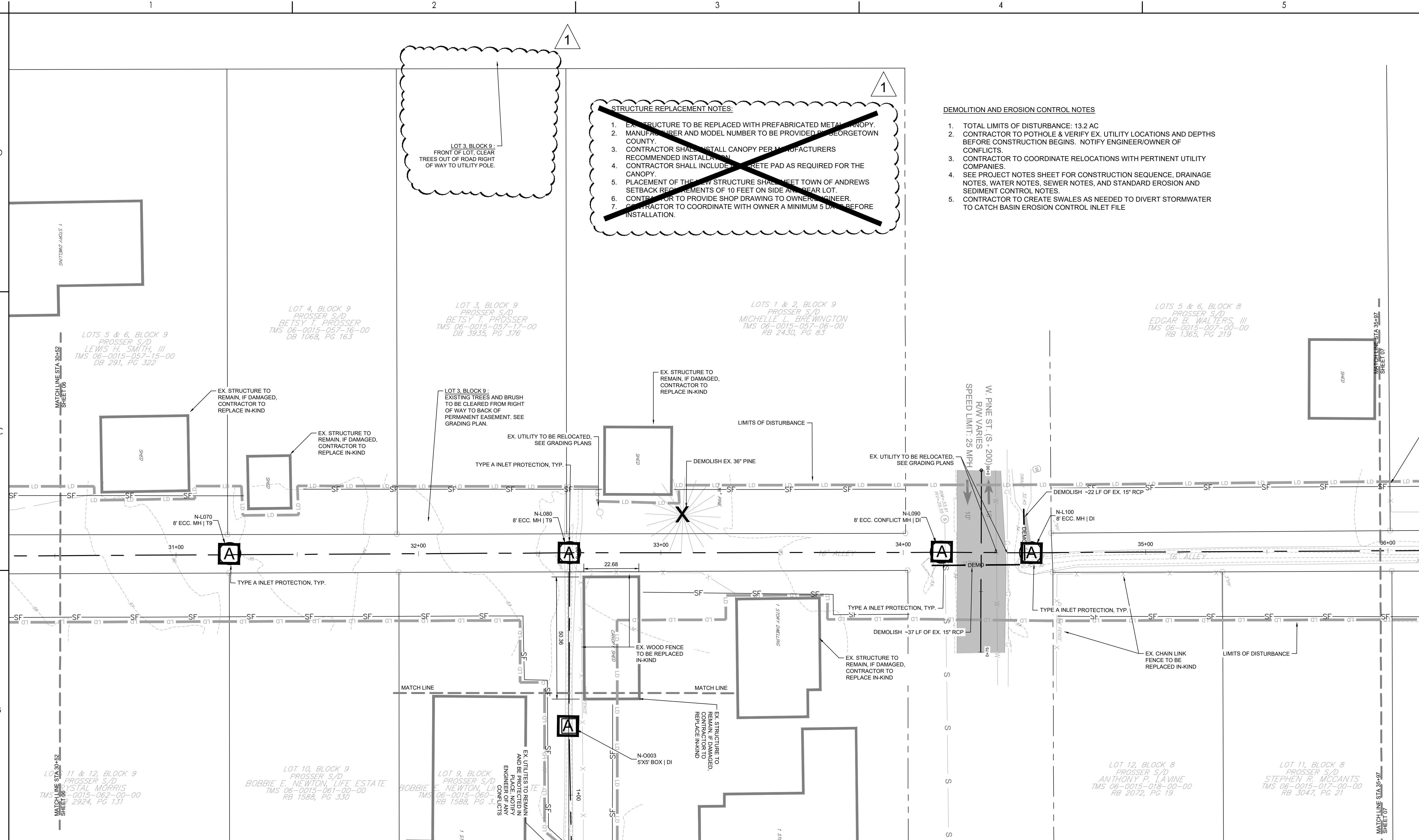
Client/Project Logo

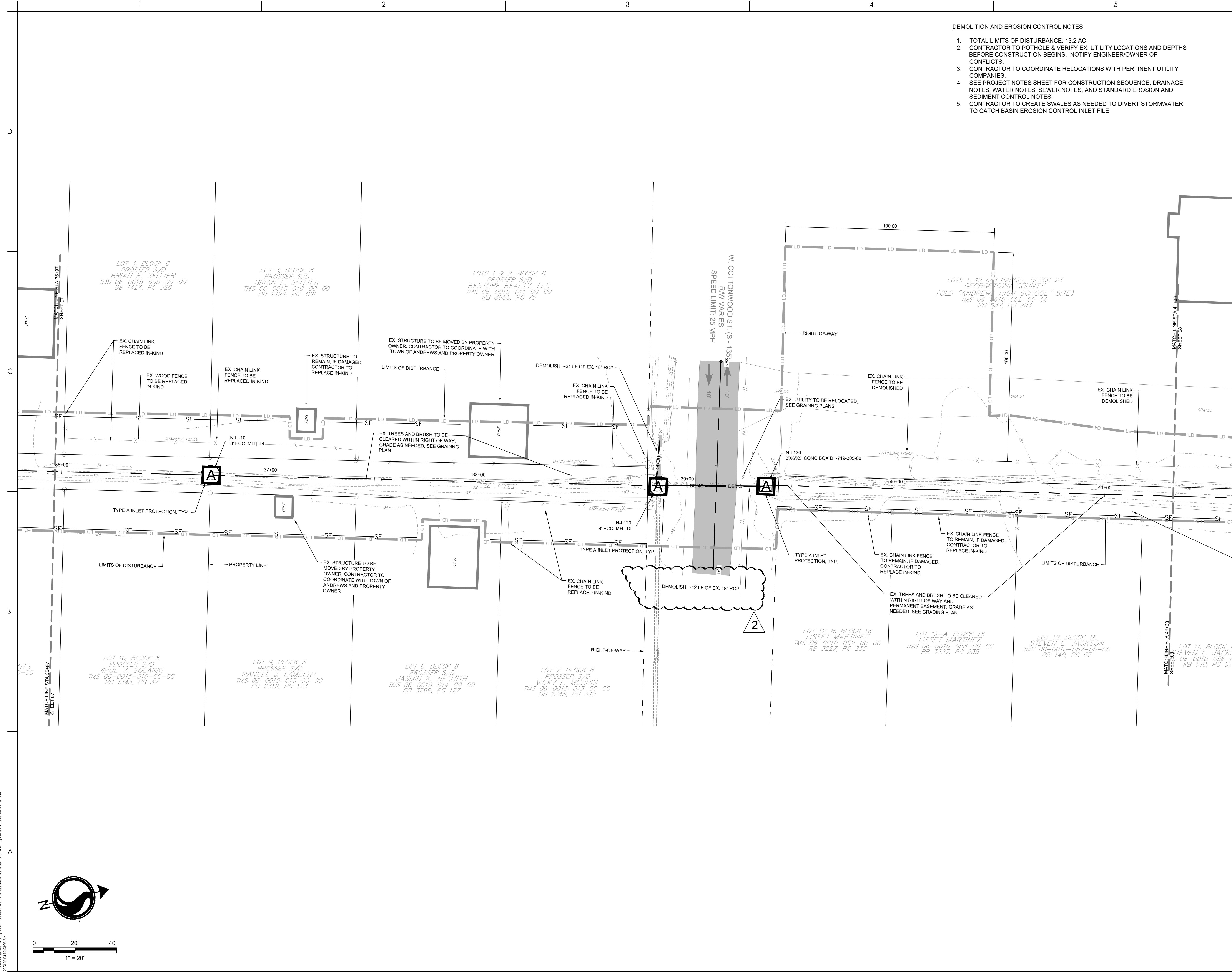
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | | |
|--------------------------|----------------------|-----------------------------|
| Project No. 178421035 | | Scale |
| Revision 1 | Sheet C2-07 of 65 | Drawing No. C2-07 |





DEMOLITION AND EROSION CONTROL NOTES

1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
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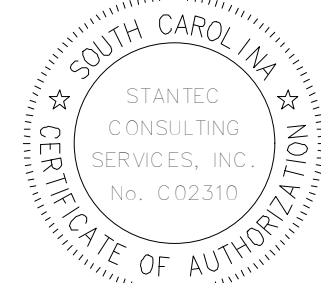
Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DR DRAINAGE FLOW ARROW
- JH SILT FENCE J-HOOK
- X TREE DEMOLITION
- SD STRUCTURE DEMOLITION
- ROCK CHECK DAM
- DEMO PIPE DEMOLITION
- ST SEDIMENT TUBE
- A TYPE A INLET PROTECTION
- TS TEMPORARY SEEDING
- M MULCHING
- DC DUST CONTROL
- PS PERMANENT STABILIZATION

| | | | |
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision 2 | Sheet C2-08 of 65 |
| Drawing No. C2-08 | |

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Legend

| | |
|---|-----------------------|
|  | LIMITS OF DISTURBANCE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | SILT FENCE J-HOOK |
|  | TREE DEMOLITION |
|  | STRUCTURE DEMOLITION |
|  | ROCK CHECK DAM |
|  | PIPE DEMOLITION |
|  | SEDIMENT TUBE |

A TYPE A INLET PROTECTION

(TS) TEMPORARY SEEDING

M MULCHING

(DC) DUST CONTROL

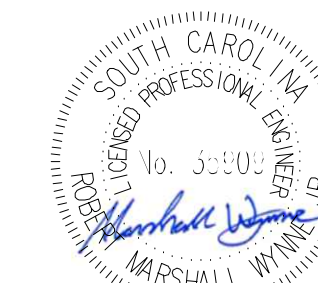
PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |
| Revision | By | Appd | YYYY.MM.DD |

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| Issued | By | Appd | YYYY.MM.DD |

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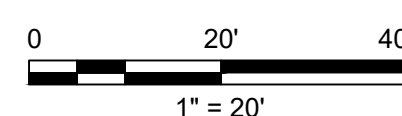
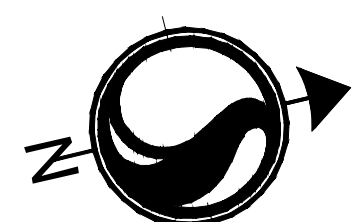
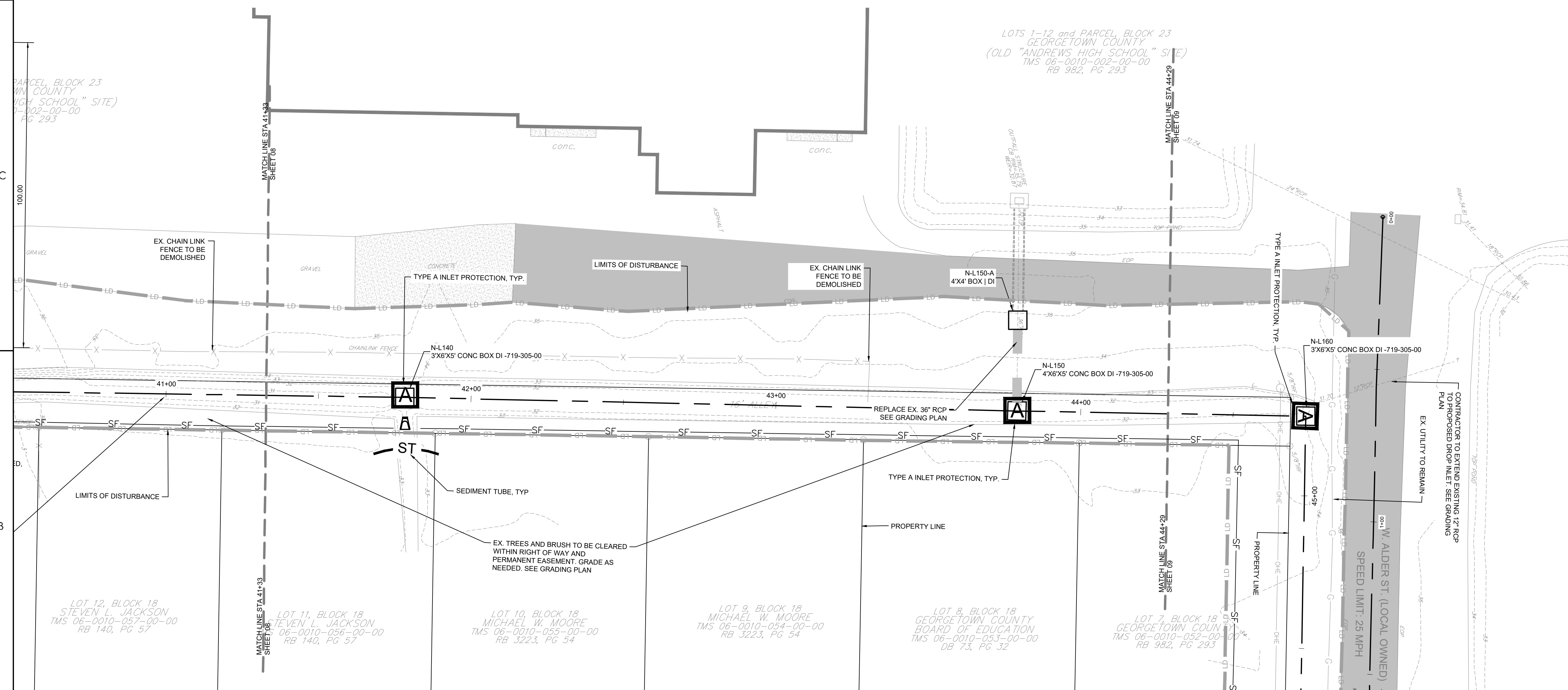
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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|--------------------------|-------|
| Project No. 178421035 | Scale |
|--------------------------|-------|

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| Revision | Sheet | Drawing No. |
| | C2-09 of 65 | C2-09 |

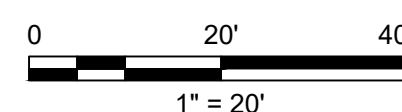


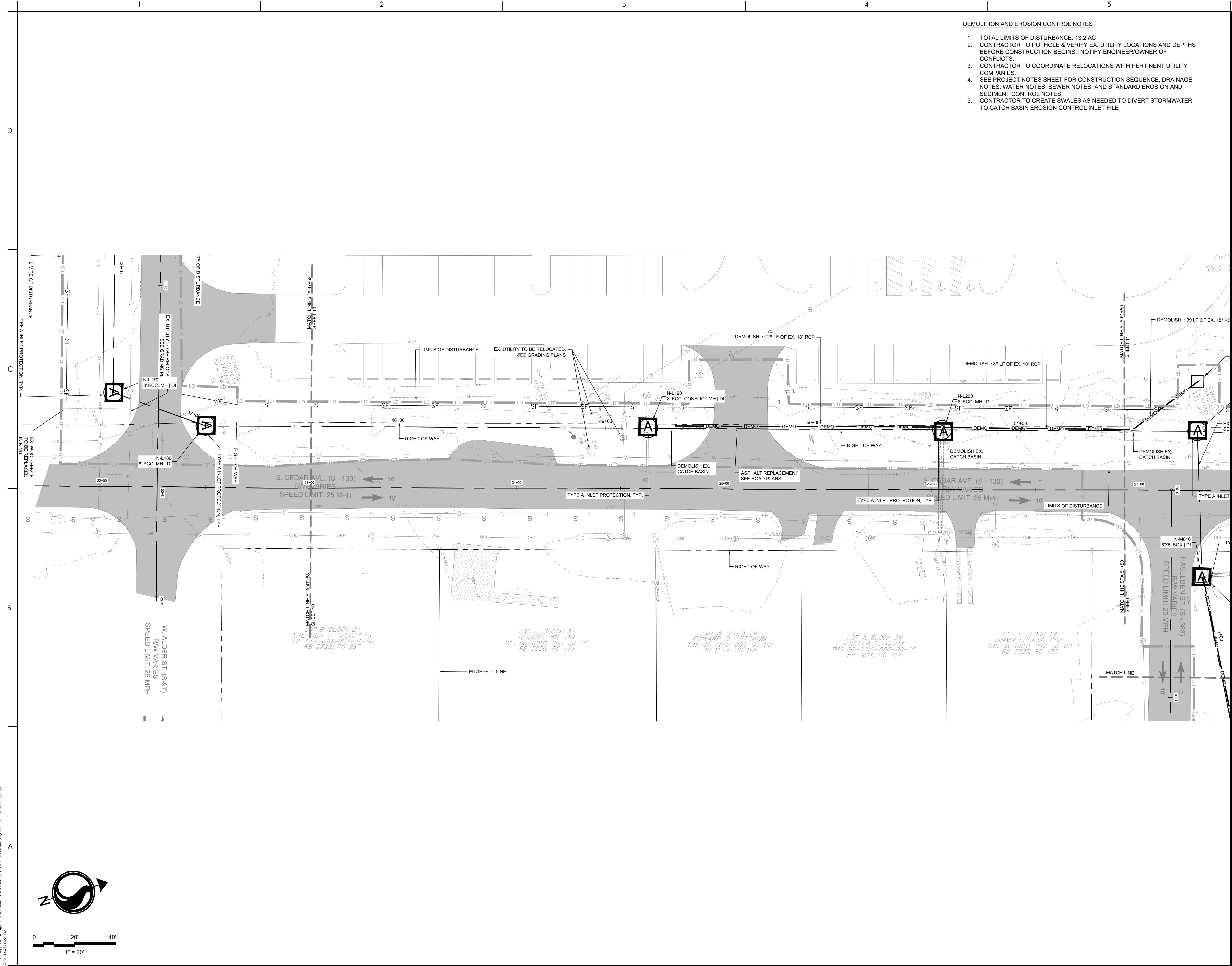


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| Revision | Sheet | Drawing No. |
| | C2-10 of 65 | C2-10 |





- DEMOLITION AND EROSION CONTROL NOTES
1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC.
 2. CONTRACTOR TO POTHOLE & VERIFY EX. UTILITY LOCATIONS AND DEPTHS BEFORE CONSTRUCTION BEGINS. NOTIFY ENGINEER/OWNER OF CONFLICTS.
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Legend

| | |
|----------------------|-----------------------|
| LD | LIMITS OF DISTURBANCE |
| TS | EXISTING CONTOURS |
| PRO | PROPOSED CONTOUR |
| SF | SILT FENCE |
| DSF | DOUBLE ROW SILT FENCE |
| → | DRAINAGE FLOW ARROW |
| J | SILT FENCE J-HOOK |
| X | TREE DEMOLITION |
| STRUCTURE DEMOLITION | |
| ROCK CHECK DAM | |
| DEMO | PIPE DEMOLITION |
| ST | SEDIMENT TUBE |

TYPE A INLET PROTECTION

TS TEMPORARY SEEDING

M MULCHING

DC DUST CONTROL

PS PERMANENT STABILIZATION

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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Client/Project Logo

Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

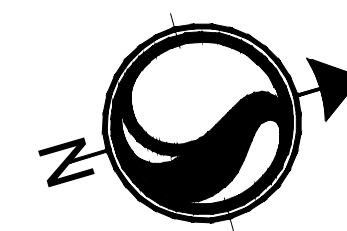
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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| Project No. 178421035 | Scale |
| Revision Sheet C2-11 of 65 | Drawing No. C2-11 |

0 20' 40'

1" = 20'



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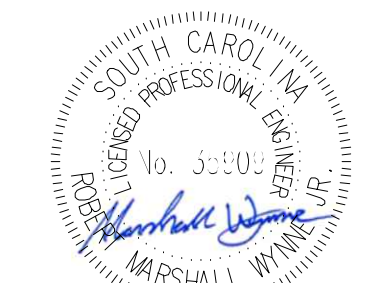


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|  | LIMITS OF DISTURBANCE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | SILT FENCE J-HOOK |
|  | TREE DEMOLITION |
|  | STRUCTURE DEMOLITION |
|  | ROCK CHECK DAM |
|  | PIPE DEMOLITION |
|  | SEDIMENT TUBE |

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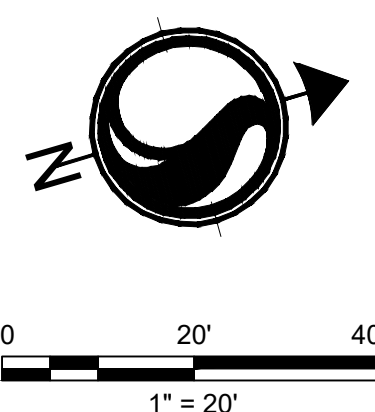
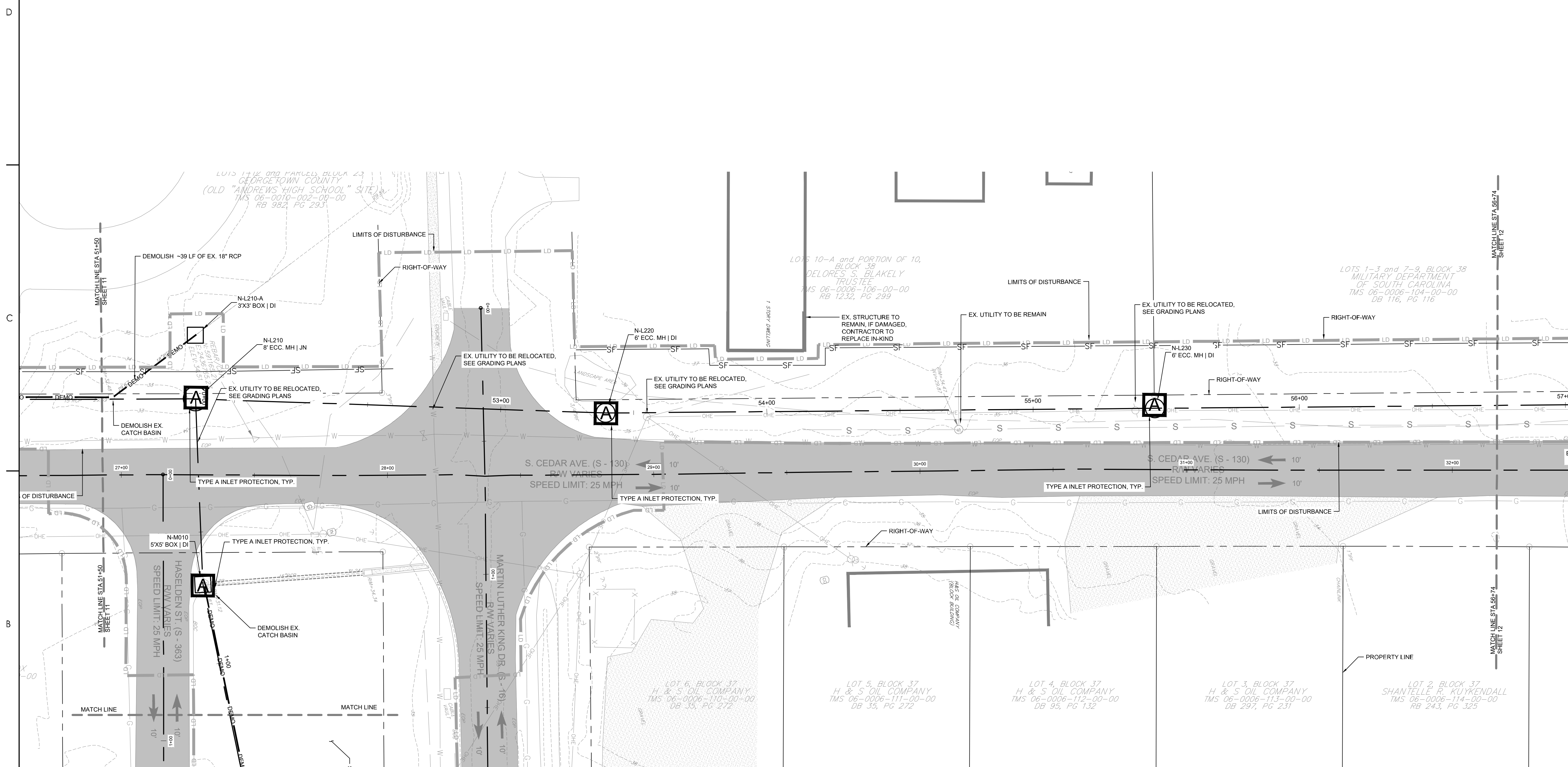


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Title
DEMOLITION AND EROSION CONTROL PLAN

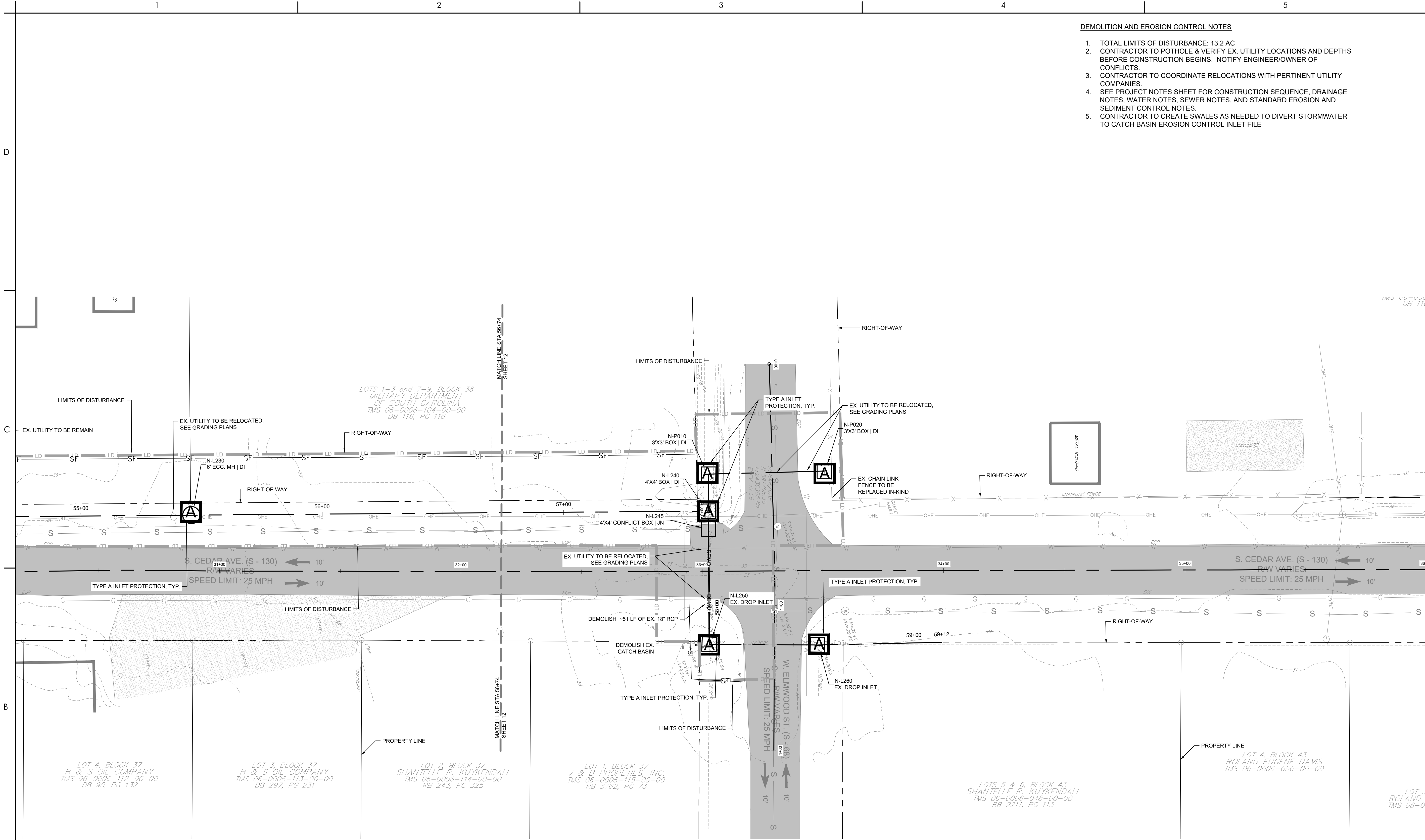
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| Project No. 178421035 | | Scale |
| Revision | Sheet C2-12 of 65 | Drawing No. C2-12 |

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5. CONTRACTOR TO CREATE SWALES AS NEEDED TO DIVERT STORMWATER TO CATCH BASIN EROSION CONTROL INLET PIPE.



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- DEMOLITION AND EROSION CONTROL NOTES
1. TOTAL LIMITS OF DISTURBANCE: 13.2 AC
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Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
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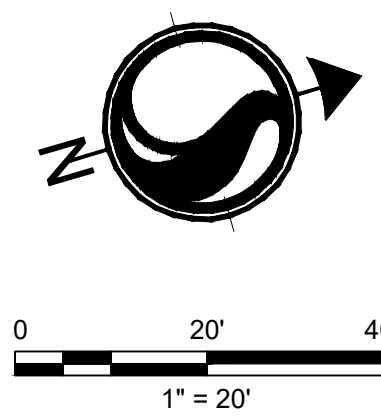
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

| | |
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| Project No. 178421035 | Scale |
| Revision Sheet C2-13 of 65 | Drawing No. C2-13 |



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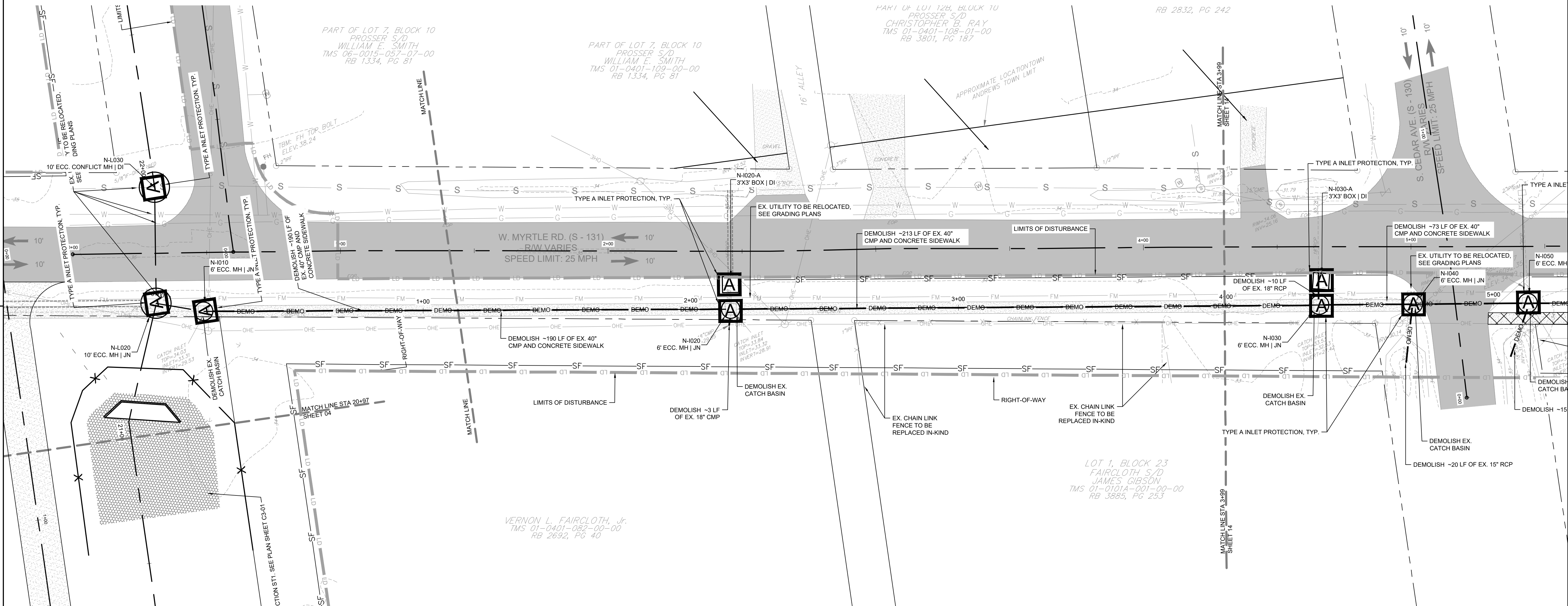
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DEMOLITION AND EROSION CONTROL NOTES

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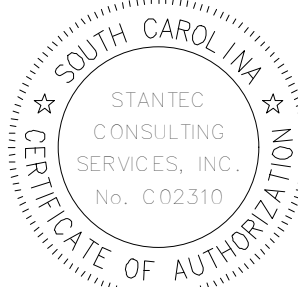
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

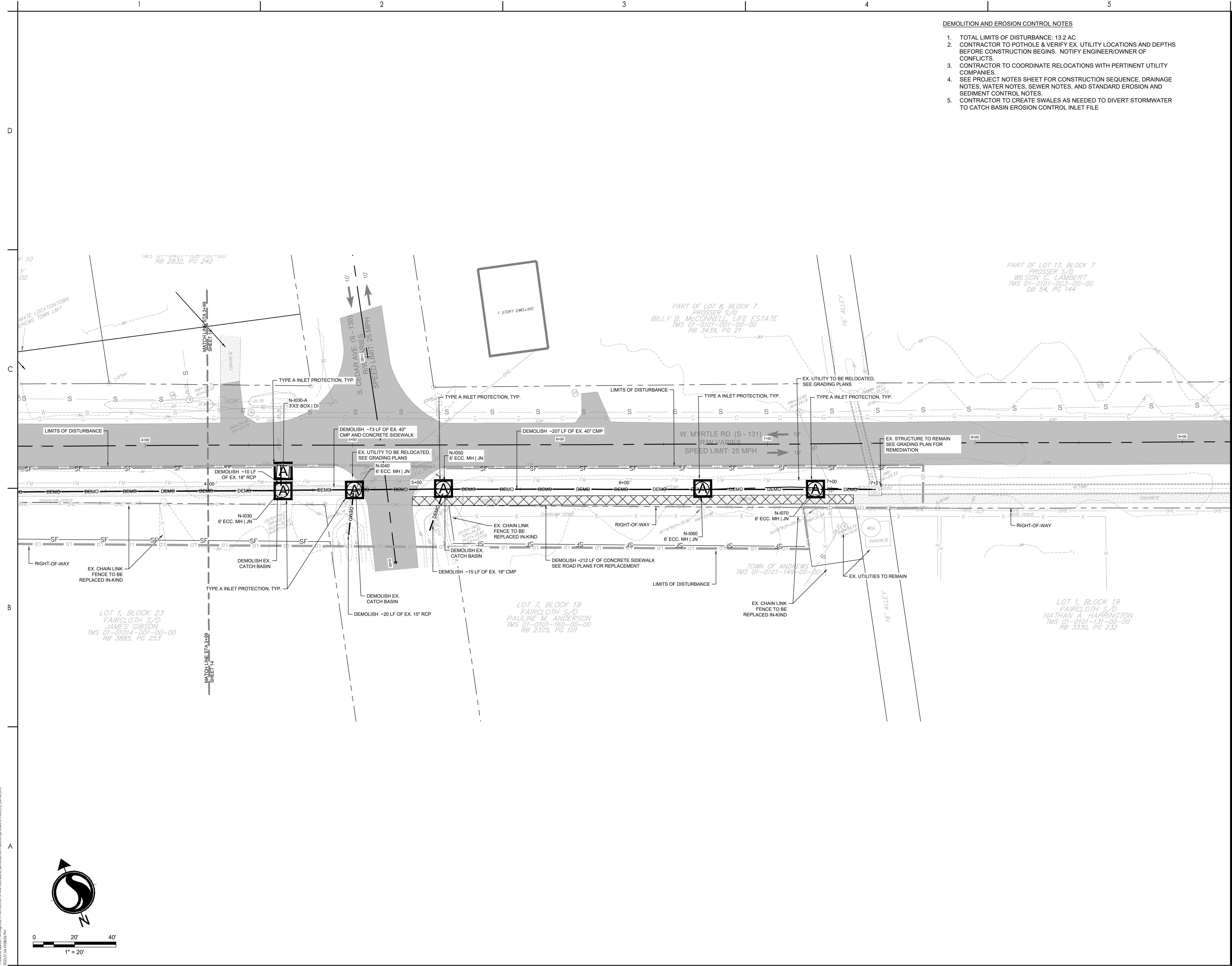
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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| Project No. 178421035 | Scale |
| Revision Sheet C2-14 of 65 | Drawing No. C2-14 |



0 20' 40'
1" = 20'



DEMOLITION AND EROSION CONTROL NOTES

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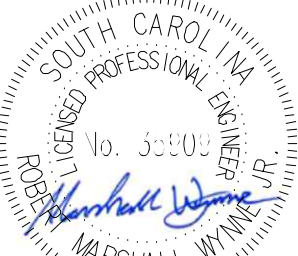
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- A TYPE A INLET PROTECTION
- TS TEMPORARY SEEDING
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- PS PERMANENT STABILIZATION

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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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| Project No. 178421035 | Scale |
| Revision Sheet C2-15 of 65 | Drawing No. C2-15 |

DEMOLITION AND EROSION CONTROL NOTES

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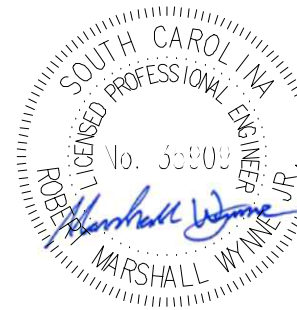
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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| Project No. 178421035 | Scale |
| Revision 1 | Sheet C2-16 of 65 |
| Drawing No. C2-16 | |

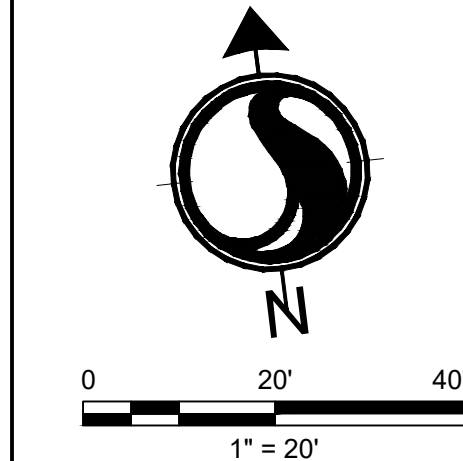
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DEMOLITION AND EROSION CONTROL NOTES

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- DSF DOUBLE ROW SILT FENCE
- DF DRAINAGE FLOW ARROW
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TS TEMPORARY SEEDING

M MULCHING

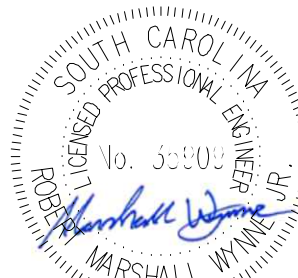
DC DUST CONTROL

PS PERMANENT STABILIZATION

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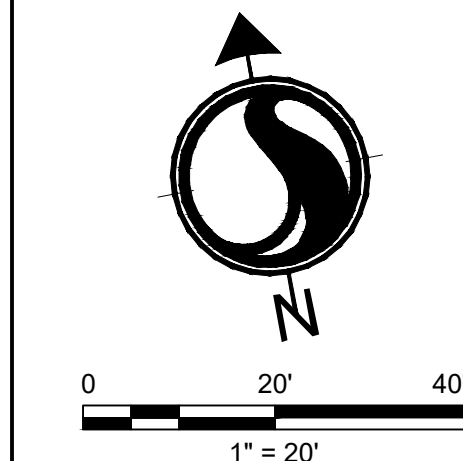
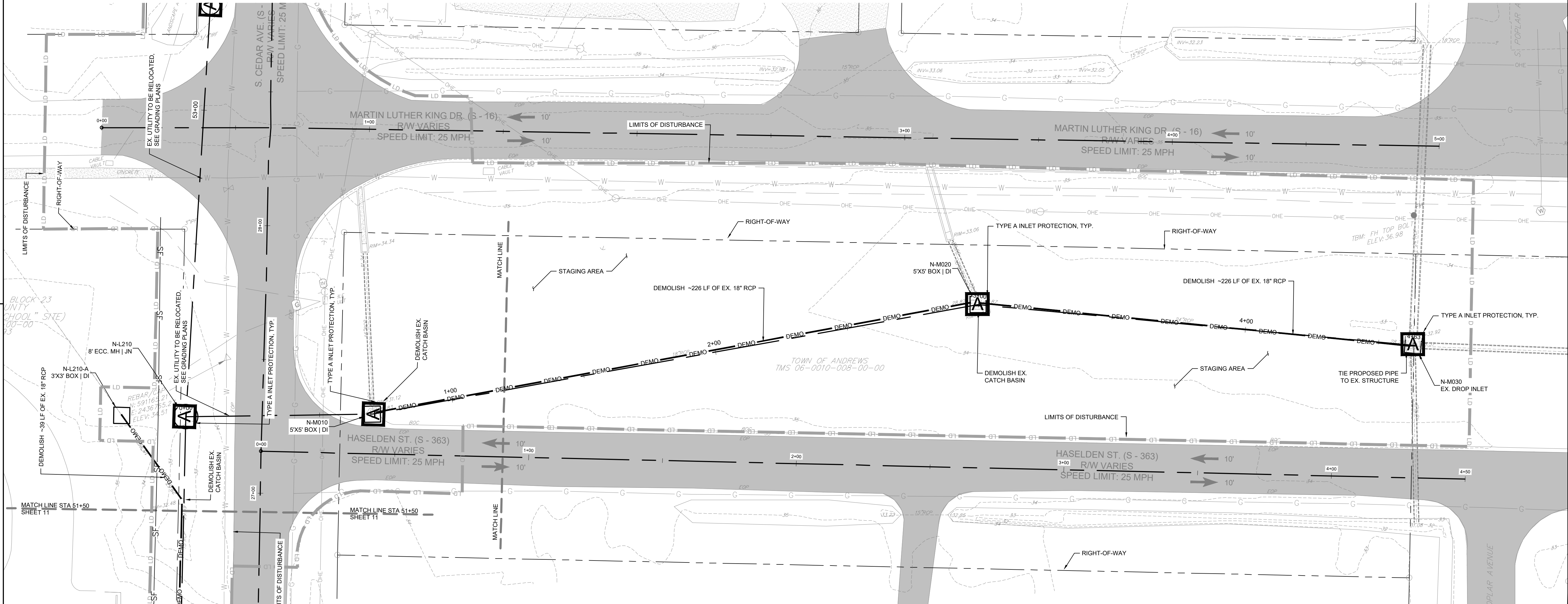
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DEMOLITION AND EROSION CONTROL PLAN

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| Project No. 178421035 | Scale |
| Revision C2-17 of 65 | Drawing No. C2-17 |



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SILT FENCE INSTALLATION

1.25 LB./LINEAR FT. STEEL POSTS

MAXIMUM SPACING = 6 FT.

BACKFILL TRENCH WITH COMPACTED EARTH

RUNOFF

USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SEE DETAILS

BURY FABRIC

PLAN SYMBOL

—SF—SF—

FLAT-BOTTOM TRENCH DETAIL

18-IN. TO 24-IN.

6-IN.

24-IN. (MINIMUM)

V-SHAPED TRENCH DETAIL

18-IN. TO 24-IN.

6-IN.

24-IN. (MINIMUM)

BURY FILTER FABRIC AT LEAST 12-INCHES

SILT FENCE - GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.

2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet.

3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.

4. Silt fence joints, when necessary, shall be completed by one of the following options:
- Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
- Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or,
- Overlap entire width of each silt fence roll from one support post to the next support post.

5. Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.

6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

7. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 Page 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014 DATE

SILT FENCE - POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
- Composed of a high strength steel with a minimum yield strength of 50,000 psi.
- Include a standard "I" section with a nominal face width of 1.38-inches and a nominal "I" length of 1.48-inches.
- Weigh 1.25 pounds per foot (± 8%)

2. Posts shall be equipped with projections to aid in fastening of filter fabric.

3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.

4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.

5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
- Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
- Free of any treatment or coating which might adversely alter its physical properties after installation;
- Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
- Have a minimum width of 36-inches.

2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

3. 12-inches of the fabric should be placed within excavated trench and tamped in when the trench is backfilled.

4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.

5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE INSTALLATION (SINGLE ROW)

1.25 LB./LINEAR FT. STEEL POSTS

MAXIMUM SPACING = 6 FT.

BACKFILL TRENCH WITH COMPACTED EARTH

RUNOFF

USE EITHER FLAT-BOTTOM OR V-BOTTOM TRENCH SHOWN BELOW

BURY FABRIC

DOUBLE ROW SILT FENCE

N.T.S.

3'

18-IN. TO 24-IN.

6-IN.

4-IN.

18-IN. (MINIMUM)

18-IN. (MINIMUM)

ROCK DITCH CHECK - GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).

2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.

3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.

4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.

5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.

6. Rock Ditch Checks should have a minimum top flow length of 2-feet.

7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.

8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.

9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK - INSPECTION & MAINTENANCE

1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.

2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.

3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.

7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.

8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014 DATE

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

SPACING BETWEEN DITCH CHECK

L = THE DISTANCE SUCH THAT POINTS A & B ARE OF EQUAL ELEVATION

12-INCH D50 RIPRAP

1-FT. MIN.

2-FT. MAX. AT CENTER

0.5-FT. MIN.

1-FT. SUMP

NON-WOVEN GEOTEXTILE FABRIC

CROSS SECTION A-A THRU STONE DITCH CHECK

12-INCH D50 RIPRAP

1-FT. MIN.

2-FT. MAX. AT CENTER

0.5-FT. MIN.

1-FT. SUMP

NON-WOVEN GEOTEXTILE FABRIC

TYPICAL DITCH CHECK SECTION

TOP OF BANK

1-INCH D50 WASHED STONE

2-FT. MIN.

12-INCH D50 RIPRAP

2-FT. MAX. AT CENTER

0.5-FT.

NON-WOVEN GEOTEXTILE FABRIC

LENGTH AS REQUIRED IN FIELD TO KEY INTO SIDE OF SLOPES OF DITCH

AREA WHERE SEDIMENT IS TRAPPED

PLAN SYMBOL

OR

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

TYPE A - FILTER FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
- Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
- Free of any treatment or coating which might adversely alter its physical properties after installation;
- Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
- Have a minimum width of 36-inches.

2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

3. 12-inches of the fabric should be placed within excavated trench and tamped in when the trench is backfilled.

4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.

5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

TYPE A - POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
- Composed of a high strength steel with a minimum yield strength of 50,000 psi.
- Include a standard "I" section with a nominal face width of 1.38-inches and a nominal "I" length of 1.48-inches.
- Weigh 1.25 pounds per foot (± 8%)

2. Posts shall be equipped with projections to aid in fastening of filter fabric.

3. Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.

4. Post spacing shall be at a maximum of 3-feet on center.

TYPE A - INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.

2. Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.

3. Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overlapping the inlet protection.

7. Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.

8. Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type A
FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 2 of 2

GENERAL NOTES

FEBRUARY 2014 DATE

South Carolina Department of Health and Environmental Control

Type A
FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

POST INSTALLATION DETAIL

1.25 LB./LINEAR FT. STEEL POSTS

24-IN. MIN.

3-FT. MAX. SPACING

FILTER FABRIC INSTALLATION DETAIL

ATTACH FILTER FABRIC TO POSTS WITH HEAVY DUTY PLASTIC TIES ALONG TOP 8-INCHES OF FABRIC.

FOLD FABRIC TO OVERLAP 1 FOOT AND SECURE TO POSTS WITH HEAVY DUTY PLASTIC TIES

BURY FABRIC (SEE DETAIL)

PLAN SYMBOL

A

South Carolina Department of Health and Environmental Control

Type A
FILTER FABRIC INLET PROTECTION

STANDARD DRAWING NO. SC-07 PAGE 1 of 2

NOT TO SCALE

FEBRUARY 2014 DATE

BURY & TRENCH MINIMUM OF 12-INCHES OF FILTER FABRIC

Stantec

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4969 Centre Pointe Drive, Suite 200
North Charleston, SC, 29418
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www.stantec.com

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Legend

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|--------------------------------|-----|------|------------|
| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |
| | | | |
| | | | |
| ISSUED FOR CONSTRUCTION | R/W | BK | 2022.06.28 |
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| | Dwn | Dgrn | Chkd |
| | | | YYYY.MM.DD |

Permit/Seal

Client/Project Logo

Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

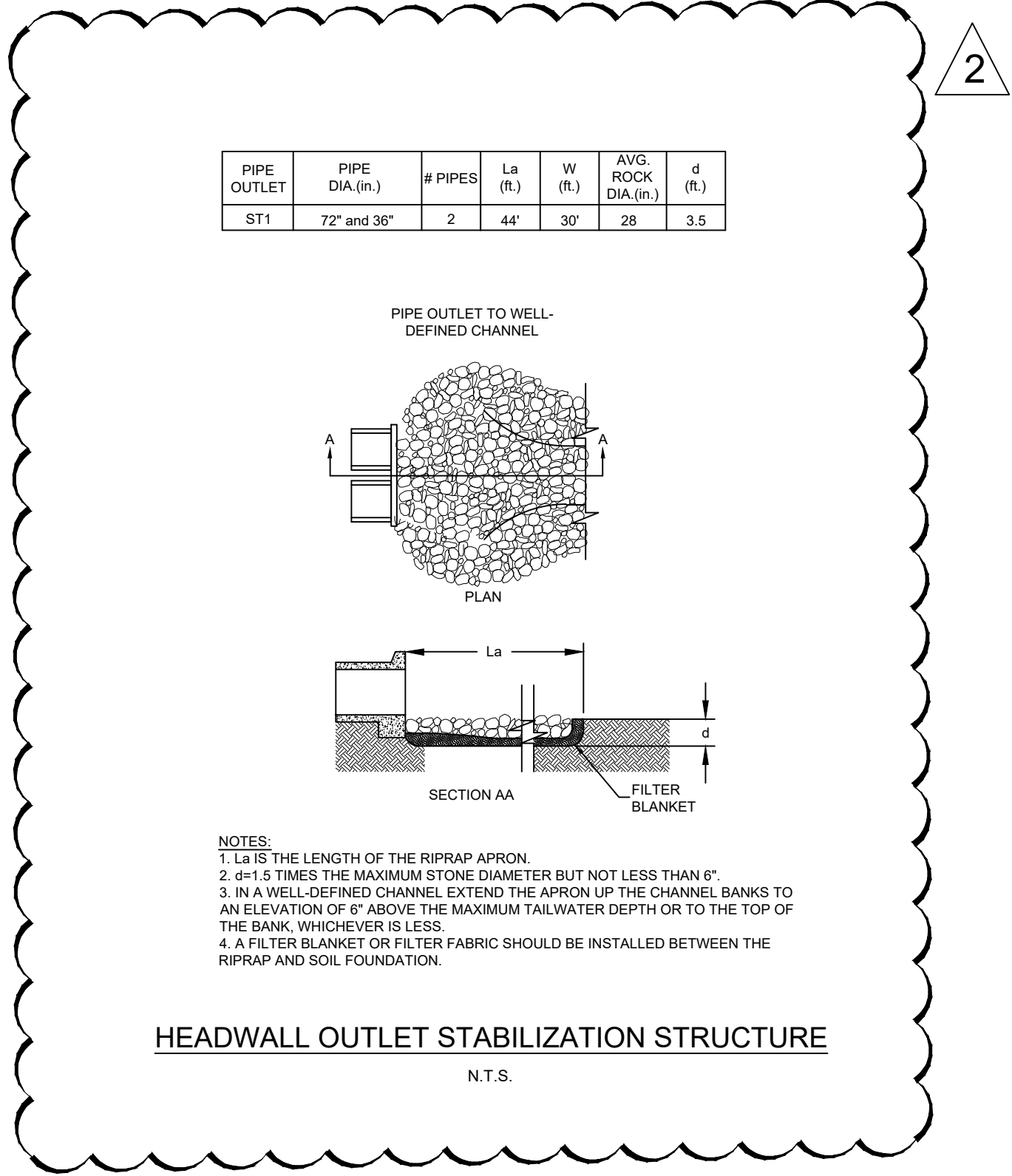
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
EROSION CONTROL DETAILS

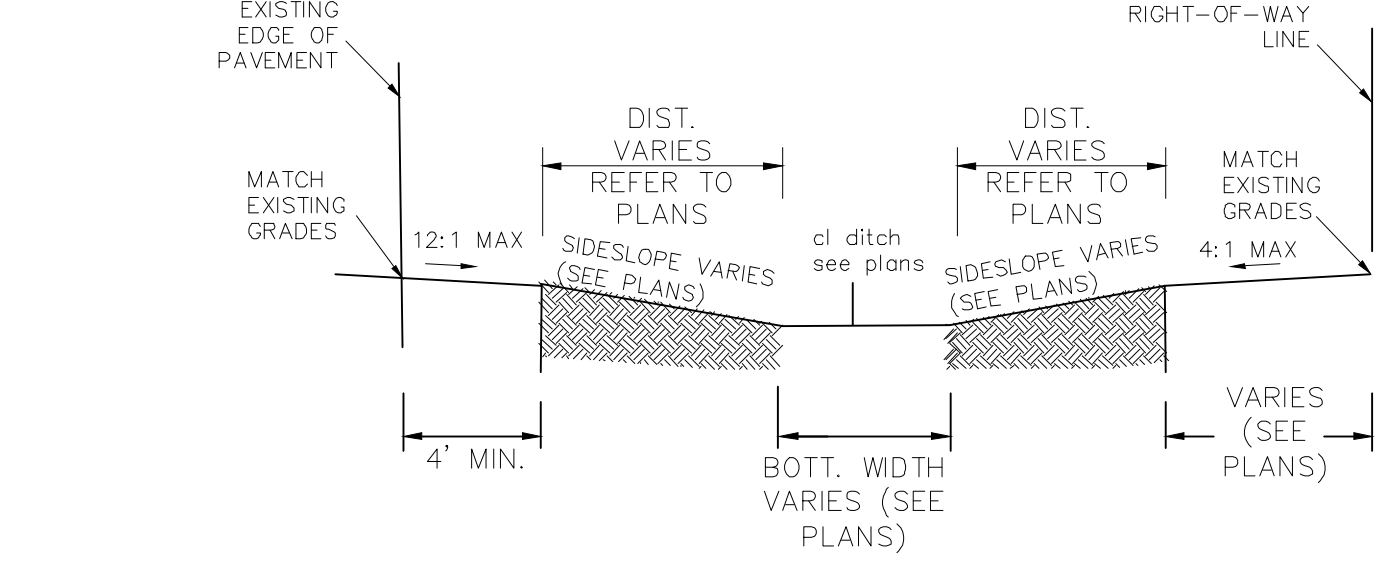
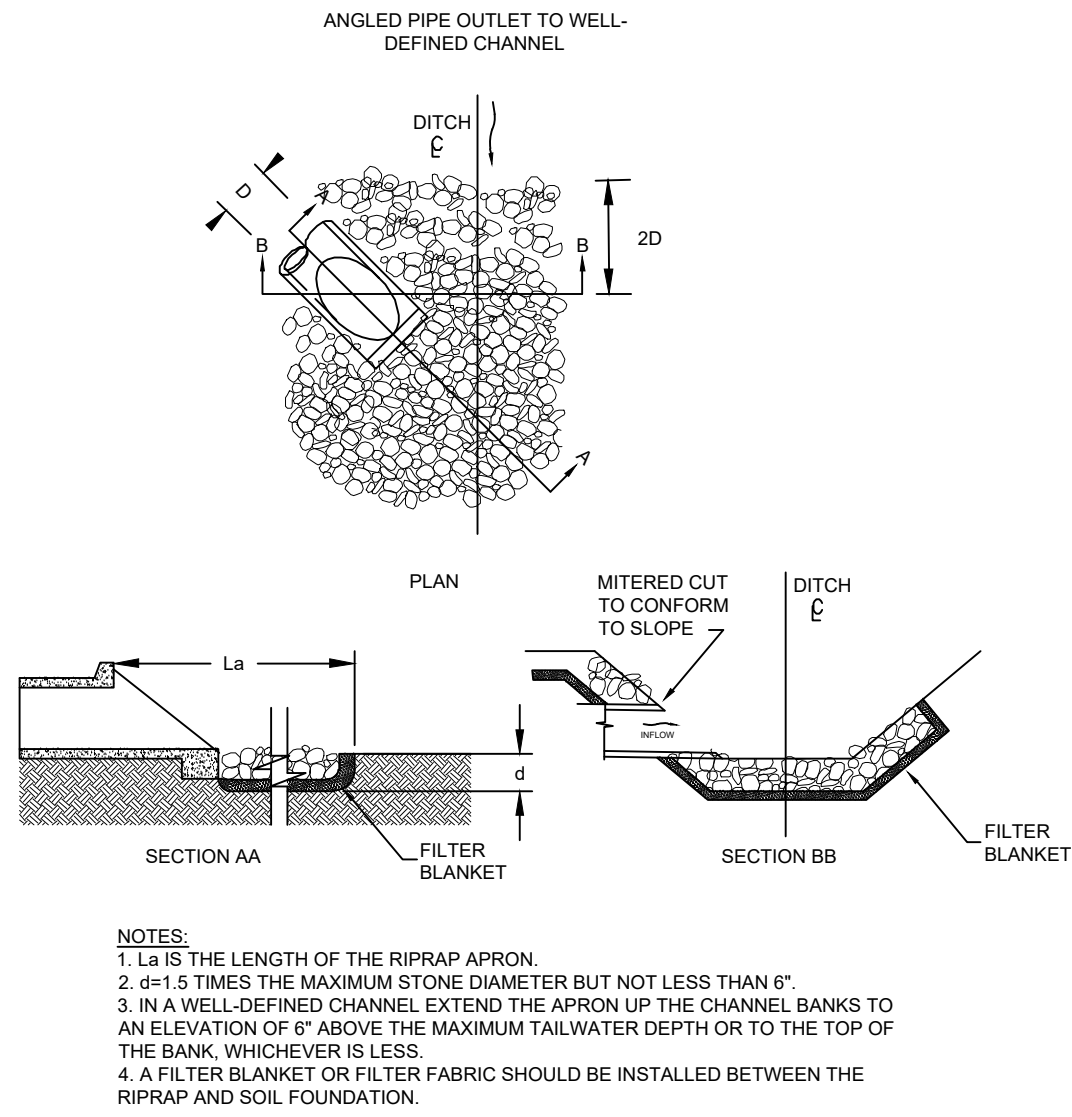
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| Project No. 178421035 | Scale |
| Revision --- | Sheet C3-00 of 65 |
| Drawing No. C3-00 | |

D

C



| | PIPE DIA. (IN.) | PIPES (FT) | 3D (FT) | La (FT) | W (FT) | AVG. ROCK DIA (IN.) | d (FT.) |
|----|-----------------------|---------------|------------|------------|-----------|------------------------------|------------|
| 1 | 12 | 1 | 3.00 | 6 | 5.00 | 6 | 0.75 |
| 2 | 15 | 1 | 3.75 | 8 | 6.25 | 6 | 0.75 |
| 3 | 18 | 1 | 4.50 | 10 | 7.50 | 6 | 0.75 |
| 4 | 21 | 1 | 5.25 | 12 | 8.75 | 6 | 0.75 |
| 5 | 24 | 1 | 6.00 | 14 | 10.00 | 6 | 0.75 |
| 6 | 27 | 1 | 6.75 | 14 | 11.25 | 6 | 0.75 |
| 7 | 30 | 1 | 7.50 | 16 | 12.50 | 6 | 0.75 |
| 8 | 36 | 1 | 9.00 | 20 | 15.00 | 8 | 1.00 |
| 9 | 42 | 1 | 10.50 | 22 | 17.50 | 8 | 1.00 |
| 10 | 48 | 1 | 12.00 | 26 | 20.00 | 10 | 1.25 |
| 11 | 54 | 1 | 13.50 | 30 | 22.50 | 12 | 1.50 |



| SEQUENCE OF CONSTRUCTION: | DITCHES/SWALES WITH SEEDING AND/OR SOD. |
|---|---|
| 1. RECEIVE NPDES COVERAGE FROM SCDHEC. | 11. REPLACE DAMAGED OR DEMOLISHED HARDSCAPE AND LANDSCAPE IN-KIND AS REQUIRED. |
| 2. NOTIFY SCDOT, PRE-CONSTRUCTION MEETING. | 12. MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED. |
| 3. NOTIFY DHEC EQC REGIONAL OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES. | 13. CONTACT GEORGETOWN COUNTY FOR FINAL INSPECTION AND CLOSE-OUT OF PROJECT. AS-BUILT, VIDEO AND CLOSE-OUT APPLICATION TO BE SUBMITTED FOR REVIEW AND APPROVAL AS REQUIRED BY GEORGETOWN COUNTY. |
| 4. INSTALLATION OF TREE PROTECTION, PERIMETER SILT FENCE, AND EROSION CONTROL MEASURES. | 14. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE WORK AREA IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES). |
| 5. POTHOLE UTILITY LOCATIONS AS SHOWN ON THE PLANS, LOCATE SEWER SERVICES FOR EACH RESIDENCE, AND NOTIFY OWNER/ENGINEER OF CONFLICTS. | 15. SUBMIT TO DHEC FOR N.O.T. WITHIN 30 DAYS OF FINAL STABILIZATION. |
| 6. INSTALLATION OF COFFERDAMS (AS REQUIRED) | |
| 7. INSTALLATION OF NEW STORMWATER PIPES AND STRUCTURES. | |
| 8. CONSTRUCT DIVERSION SWALES AS NECESSARY TO CONVEY THE STORM WATER BEFORE THE PROPOSED STORM DRAINAGE SYSTEM IS FULLY FUNCTIONAL. INSTALLING SEDIMENT TUBES IF NECESSARY. | |
| 9. INSTALL PERIMETER SILT FENCE WHERE SEDIMENT IS OBSERVED TO BE LEAVING CONSTRUCTION AREAS. MAINTAIN PERIMETER SILT FENCE, DIVERSIONS, AND SEDIMENT TUBES. | |
| 10. PERMANENT/FINAL STABILIZATION OF | |

B

TEMPORARY VEGETATION SCHEDULE

| SPECIES | RATE (LBS/AC) | OPTIMUM DATES TO PLANT | REMARKS |
|----------------------------|------------------|--|--------------------|
| BROWNTOP MILLET (ALONE) | 40 | APRIL 20 - AUGUST 15 | QUICK, DENSE COVER |
| BROWNTOP MILLET (MIX)* | 10 | APRIL 20 - AUGUST 15 | QUICK, DENSE COVER |
| RYE GRAIN (ALONE) | 56 | FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20 | QUICK COVER |
| RYE GRAIN (MIX)* | 10 | FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20 | QUICK COVER |
| RYE GRASS (ALONE) | 50 | AUGUST 10 - OCTOBER 10 | COMPETITIVE, DENSE |
| RYE GRASS (MIX)* | 8 | AUGUST 10 - OCTOBER 10 | COMPETITIVE, DENSE |

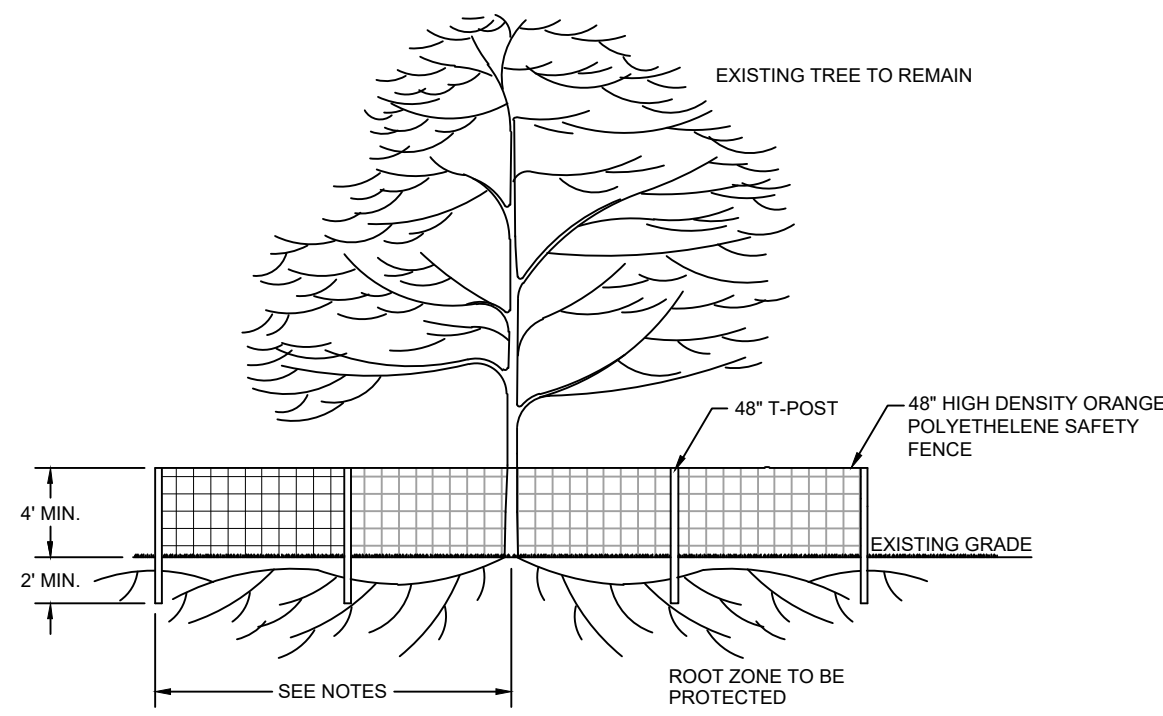
* FOR DETAILS ON MIXES CONSULT THE CLEMSON UNIVERSITY HOME AND GARDEN INFORMATION CENTER AT (888) 656-9988 OR AT HTTP://HGIC.CLEMSON.EDU.

PERMANENT VEGETATION SCHEDULE

| SPECIES | RATE (LBS/AC) | OPTIMUM DATES TO PLANT | REMARKS |
|-----------------------------------|------------------|------------------------|---|
| BERMUDA GRASS (HULLED) (ALONE) | 8-12 | APRIL - JULY 15 | QUICK COVER, SOD FORMING, PARTIAL WINTER KILL |
| BERMUDA GRASS (HULLED) (MIX)* | 4-6 | APRIL - JULY 15 | QUICK COVER, SOD FORMING, PARTIAL WINTER KILL |
| FESCUE, TALL (KY31) ALONE | 40 | AUGUST 15 - OCTOBER | SELDOM SEEDED ALONE, NOT FOR DRY OR WET SITES |
| FESCUE, TALL (KY31) MIX* | 20 | AUGUST 15 - OCTOBER | SELDOM SEEDED ALONE, NOT FOR DRY OR WET SITES |
| ANNUAL RYE GRASS | 15 | AUGUST 15 - FEBRUARY | GOOD FOR SUPPRESSING WEEDS. DO NOT USE ITALIAN RYE GRASS. |
| CENTPEDE | 10 | MARCH 1 - APRIL 15 | REQUIRES LOW MAINTENANCE AND FEWER CUTS. |

* FOR DETAILS ON MIXES CONSULT THE CLEMSON UNIVERSITY HOME AND GARDEN INFORMATION CENTER AT (888) 656-9988 OR AT HTTP://HGIC.CLEMSON.EDU.

SEEDING SCHEDULE



- NOTES:
1. ALL TREE PROTECTION BARRICADES MUST HAVE TWO HORIZONTAL CROSS RAILS.
 2. BARRICADES SHALL BE ERCTED AT A MINIMUM DISTANCE FROM THE BASE OF PROTECTED TREES AND GRAND TREES ACCORDING TO THE FOLLOWING STANDARDS.
 - A. FOR GRAND TREES THE BARRICADE SHALL BE PLACED AT THE DRIPLINE OF THE TREE.
 - B. FOR PROTECTED TREES TEN INCHES (10") OR LESS D.B.H. (DIAMETER BREAST HEIGHT), PROTECTIVE BARRICADES SHALL BE PLACED A MINIMUM DISTANCE OF TEN FEET (10') FROM THE BASE OF EACH PROTECTED TREE, OR TO THE EDGE OF THE DRIP LINE, WHICHEVER IS GREATER.
 - C. FOR PROTECTED TREES GREATER THAN TEN INCHES (10") D.B.H., PROTECTIVE BARRICADES SHALL PROVIDE A DIAMETER OF PROTECTION AROUND THE TREE EQUAL TO THE DIAMETER BREAST HEIGHT OF THE TREE (i.e., A 24" DIAMETER TREE WOULD REQUIRE A 24 FOOT DIAMETER PROTECTIVE BARRICADE), OR TO THE EDGE OF THE DRIP LINE, WHICHEVER IS GREATER.
 - D. CONTRACTOR TO INSTALL SILT FENCING ON THE SIDE OF THE TREE ADJACENT TO THE ROADWAY.
 3. ALL GRADING AROUND PROTECTED TREES IS TO BE DONE BY HAND. CONTRACTOR SHALL NOT OPERATE HEAVY EQUIPMENT WITHIN THE TREE PROTECTION BARRIERS.
 4. CONTRACTOR SHALL NOTIFY CITY OF NORTH CHARLESTON UPON INSTALLATION OF TREE PROTECTION FOR INSPECTION AND APPROVAL PRIOR TO LAND DISTURBANCE.

TREE PROTECTION DETAIL

N.T.S.



Stantec
4969 Centre Pointe Drive, Suite 200
North Charleston, SC, 29418
Tel: 843.740.7700
www.stantec.com

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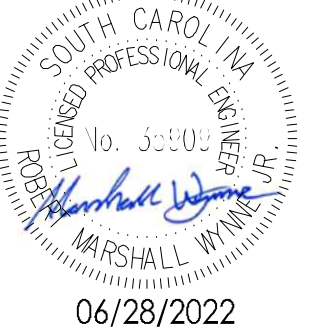


Legend

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| ISSUED FOR CONSTRUCTION | R/W | BK | 2022.06.28 |
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| | Dwn. | Dsgn. | Chkd. |
| | | | 2020.10.09 |
| | | | YYYY.MM.DD |

Permit/Seal



Client/Project Logo

Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
EROSION CONTROL DETAILS

| | |
|-----------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision 2 | Sheet C3-01 of 65 |
| Drawing No. C3-01 | |

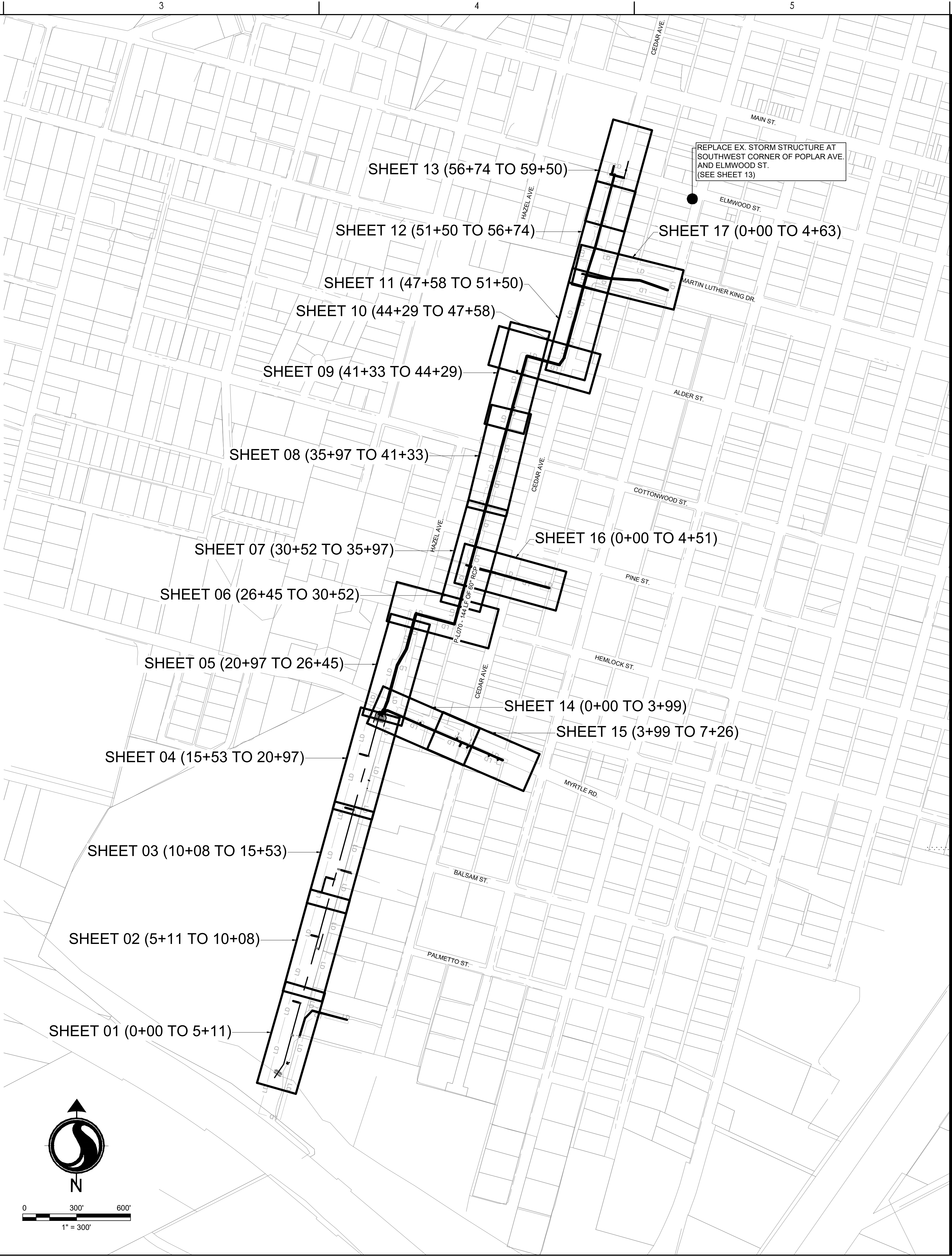
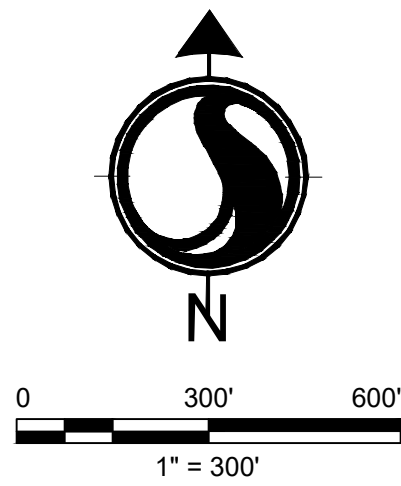
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ORIGINAL SHEET - ARCH D

| STORM DRAINAGE STRUCTURES | | | | |
|---------------------------|--|----------------------------------|-------------|--|
| STRUCTURE ID | DETAILS | STRUCTURE INLET | TOTAL DEPTH | |
| N-1010 | TOP = 33.60 P-1020 INV IN = 22.69 P-1010 INV OUT = 22.69 | 6' ECC. MH JN | 11.2 | |
| N-1020 | TOP = 33.16 P-1030 INV IN = 23.47 P-1020 INV IN = 31.20 P-1020 INV OUT = 23.47 | 6' ECC. MH JN | 10.1 | |
| N-1020-A | TOP = 34.08 P-1020 INV IN = 31.88 P-1020-A INV OUT = 31.88 | 5'X3' BOX DI | 2.2 | |
| N-1030 | TOP = 33.18 P-1040 INV IN = 24.35 P-1030-A INV IN = 30.00 P-1030 INV OUT = 24.35 | 6' ECC. MH JN | 9.4 | |
| N-1030-A | TOP = 34.27 P-1015 INV IN = 30.80 P-1030-A INV OUT = 30.50 | 5'X3' BOX DI | 9.7 | |
| N-1040 | TOP = 34.00 P-1050 INV IN = 24.49 P-1040-A INV IN = 29.90 P-1040 INV OUT = 24.49 | 6' ECC. MH JN | 9.9 | |
| N-1050 | TOP = 34.30 P-1060 INV IN = 24.67 P-1010 INV IN = 27.60 P-1050-A INV IN = 30.50 P-1050 INV OUT = 24.67 | 6' ECC. MH JN | 10.1 | |
| N-1060 | TOP = 33.85 P-1070 INV IN = 25.17 P-1060-A INV IN = 30.20 P-1060 INV OUT = 25.17 | 6' ECC. MH JN | 9.1 | |
| N-1070 | TOP = 33.29 P-1080 INV IN = 25.38 P-1070-A INV IN = 28.50 P-1070 INV OUT = 25.38 | 6' ECC. MH JN | 8.3 | |
| N-1080 | TOP = 33.40 P-1070 INV IN = 24.03 P-1085 INV IN = 23.43 P-1080 INV OUT = 25.50 | EX. DROP INLET | 10.0 | |
| N-1020 | TOP = 33.54 P-1030 INV IN = 21.92 P-1045 INV IN = 25.00 P-1020 INV OUT = 21.92 | 10' ECC. MH JN | 14.4 | |
| N-1030 | TOP = 34.86 P-1035 INV IN = 21.68 P-1030 INV OUT = 21.68 | 10' ECC. CONFLICT MH DI | 13.2 | |
| N-1035 | TOP = 37.44 P-1040 INV IN = 21.98 P-1035 INV OUT = 21.98 | 10' ECC. MH DI | 16.0 | |
| N-1040 | TOP = 38.44 P-1050 INV IN = 22.13 P-1040 INV OUT = 22.13 | 10' ECC. MH T9 | 16.3 | |
| N-1050 | TOP = 36.93 P-1060 INV IN = 22.43 P-1050 INV OUT = 22.43 | 10' ECC. MH DI | 14.5 | |
| N-1060 | TOP = 36.67 P-1065 INV IN = 22.75 P-1060 INV OUT = 22.75 | 10' ECC. MH DI | 16.4 | |
| N-1065 | TOP = 38.42 P-1070 INV IN = 22.82 P-1065 INV OUT = 22.82 | 8' ECC. MH DI | 15.6 | |
| N-1070 | TOP = 35.35 P-1080 INV IN = 23.03 P-1070 INV OUT = 23.03 | 8' ECC. MH T9 | 17.8 | |
| N-1080 | TOP = 31.51 P-1090 INV IN = 23.24 P-1093 INV IN = 24.35 P-1080-A INV IN = 28.50 P-1080 INV OUT = 23.24 | 8' ECC. MH T9 | 8.8 | |
| N-1090 | TOP = 33.46 P-1100 INV IN = 23.46 P-1090 INV OUT = 23.46 | 8' ECC. CONFLICT MH DI | 10.5 | |
| N-1100 | TOP = 33.87 P-1110 INV IN = 23.51 P-1100 INV OUT = 23.51 P-1100-A INV OUT = 31.00 | 8' ECC. MH DI | 10.9 | |
| N-1110 | TOP = 33.03 P-1120 INV IN = 23.83 P-1110 INV OUT = 23.83 | 8' ECC. MH T9 | 9.7 | |
| N-1120 | TOP = 33.02 P-1130 INV IN = 24.15 P-1120-A INV IN = 29.80 P-1120 INV IN = 29.80 P-1120 INV OUT = 24.15 | 8' ECC. MH DI | 9.9 | |
| N-1130 | TOP = 32.00 P-1140 INV IN = 24.22 P-1130 INV OUT = 24.22 | 5'X6'X5' CONC BOX DI -719-305-00 | 8.4 | |
| N-1140 | TOP = 32.71 P-1150 INV IN = 24.57 P-1140-A INV IN = 30.50 P-1140 INV OUT = 24.57 | 5'X6'X5' CONC BOX DI -719-305-00 | 8.9 | |
| N-1140-A | TOP = 32.15 P-1140-A INV OUT = 32.00 | 18" FLARED END SECT. | ??? | |
| N-1150 | TOP = 32.83 P-1160 INV IN = 24.87 P-1150-A INV IN = 28.50 P-1150 INV OUT = 24.87 | 4'X6'X5' CONC BOX DI -719-305-00 | 8.5 | |
| N-1150-A | TOP = 34.85 P-1075 INV IN = 32.00 P-1150-A INV OUT = 31.00 | 4'X4' BOX DI | 3.8 | |
| N-1160 | TOP = 34.05 P-1170 INV IN = 25.01 P-1160 INV OUT = 25.01 | 5'X6'X5' CONC BOX DI -719-305-00 | 9.7 | |
| N-1170 | TOP = 35.21 P-1180 INV IN = 25.59 P-1170 INV OUT = 25.59 | 8' ECC. MH DI | 10.6 | |
| N-1180 | TOP = 35.49 P-1190 INV IN = 25.36 P-1180 INV OUT = 25.36 | 8' ECC. MH DI | 10.6 | |
| N-1190 | TOP = 33.77 P-1200 INV IN = 25.67 P-1190 INV OUT = 25.67 | 8' ECC. CONFLICT MH DI | 8.8 | |
| N-1200 | TOP = 33.61 P-1210 INV IN = 25.88 P-1025 INV IN = 30.05 P-1200 INV OUT = 25.88 | 8' ECC. MH DI | 8.1 | |
| N-1210 | TOP = 33.51 P-1220 INV IN = 26.06 P-1010 INV IN = 26.06 P-1210-A INV IN = 29.70 P-1210 INV OUT = 26.06 | 8' ECC. MH JN | 8.1 | |
| N-1210-A | TOP = 33.30 P-1210-A INV OUT = 28.00 | 5'X3' BOX DI | 5.3 | |
| N-1220 | TOP = 34.26 P-1230 INV IN = 26.28 P-1220 INV OUT = 26.28 | 6' ECC. MH DI | 8.2 | |
| N-1230 | TOP = 33.55 P-1240 INV IN = 26.49 P-1230 INV OUT = 26.49 | 6' ECC. MH DI | 7.6 | |
| N-1240 | TOP = 30.99 P-1245 INV IN = 26.70 P-1010 INV IN = 26.70 P-1240 INV OUT = 26.70 | 4'X4' BOX DI | 4.3 | |
| N-1245 | TOP = 32.55 P-1250 INV IN = 26.91 P-1245 INV OUT = 26.91 | 4'X4' CONFLICT BOX JN | 6.0 | |
| N-1250 | TOP = 30.53 P-1260 INV IN = 26.32 P-1080 INV IN = 26.32 P-1250 INV OUT = 26.97 | EX. DROP INLET | 4.2 | |
| N-1260 | TOP = 31.25 P-1280 INV IN = 24.15 P-1260 INV OUT = 25.07 | EX. DROP INLET | 7.1 | |
| N-1010 | TOP = 34.61 P-1025 INV IN = 26.16 P-1035 INV IN = 31.22 P-1010 INV OUT = 26.16 | 5'X3' BOX DI | 8.3 | |
| N-1020 | TOP = 33.48 P-1030 INV IN = 28.51 P-1035 INV IN = 28.46 P-1020 INV OUT = 26.51 | 5'X3' BOX DI | 7.4 | |
| N-1030 | TOP = 33.20 P-1065 INV IN = 28.14 P-1060 INV IN = 28.37 P-1030 INV IN = 29.72 P-1030 INV OUT = 26.75 | EX. DROP INLET | 6.4 | |
| N-0003 | TOP = 31.20 P-0003 INV IN = 24.53 P-0003 INV OUT = 24.53 | 5'X3' BOX DI | 6.7 | |
| N-0005 | TOP = 31.50 P-0010 INV IN = 24.73 P-0005 INV OUT = 24.73 | 5'X3' BOX DI | 6.8 | |
| N-0010 | TOP = 31.57 P-0020 INV IN = 24.87 P-0010 INV OUT = 24.87 | 5'X3' BOX DI | 6.7 | |
| N-0020 | TOP = 33.34 P-0030 INV IN = 24.97 P-0020 INV OUT = 24.97 | 5'X3' CONFLICT BOX DI | 8.4 | |
| N-0030 | TOP = 31.24 P-1002 INV IN = 25.90 P-0030 INV IN = 25.50 P-1035 INV IN = 25.80 | 5'X3' BOX DI | 5.7 | |
| N-1010 | TOP = 31.06 P-1020 INV IN = 26.73 P-1015 INV IN = 26.20 P-1010 INV OUT = 26.13 | 5'X3' BOX DI | 4.9 | |

| STORM DRAINAGE STRUCTURES | | | | |
|---------------------------|--|-------------------|-------------|--|
| STRUCTURE ID | DETAILS | STRUCTURE INLET | TOTAL DEPTH | |
| N-R020 | TOP = 32.57 P-1020 INV OUT = 26.83 | 5'X3' BOX DI | 5.7 | |
| N-0010 | TOP = 0.00 | 5'X5' BOX DI | 5.0 | |
| N-R010 | TOP = 25.00 L-R020 INV IN = 22.72 L-R010 INV OUT = 22.72 | 5'X3' BOX DI | 2.3 | |
| N-R020 | TOP = 25.11 L-R030 INV IN = 22.90 L-R020 INV OUT = 22.90 | 5'X3' BOX DI | 2.2 | |

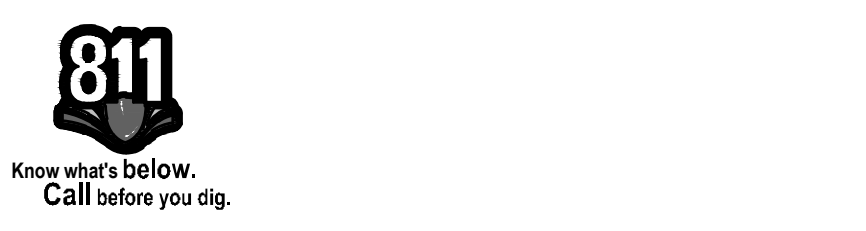
| STORM DRAIN PIPES | | | | |
|-------------------|-------------|--------|--------|--|
| Pipe Name | DESCRIPTION | Length | Slope | |
| P-0040 | 12" RCP | 33 | 6.13% | |
| P-0050 | 12" RCP | 32 | 0.62% | |
| P-0020 | 12" RCP | 40 | 7.48% | |
| P-0010 | 12" RCP | 40 | 11.15% | |
| P-0030 | 12" RCP | 39 | 6.87% | |
| P-1070-A | 15" RCP | 10 | 3.07% | |
| P-1060-A | 15" RCP | 9 | 4.26% | |
| L-R030 | 18" RCP | 200 | 2.32% | |
| L-R020 | 18" RCP | 59 | 0.30% | |
| L-R010 | 18" RCP | 106 | 0.30% | |
| P-1210-A | 18" RCP | 24 | 7.10% | |
| P-1080-A | 18" RCP | 20 | 11.73% | |
| P-1030-A | 18" RCP | 9 | 5.60% | |
| P-1020-A | 18" RCP | 9 | 9.52% | |
| P-1140-A | 18" RCP | 9 | 22.81% | |
| P-1020 | 18" RCP | 48 | 0.30% | |
| P-1010 | 18" RCP | 15 | 0.30% | |
| P-1100-A | 18" RCP | 16 | 6.32% | |
| P-1050-A | 18" RCP | 16 | 3.54% | |
| P-1040-A | 18" RCP | 24 | 1.24% | |
| P-1120-A | 18" RCP | 24 | 4.10% | |
| P-1015 | 24" RCP | 8 | 0.00% | |
| P-1250 | 36" RCP | 48 | 0.15% | |
| P-0005 | 36" RCP | 80 | 0.20% | |
| P-0010 | 36" RCP | 55 | 0.25% | |
| P-1240 | 36" RCP | 214 | 0.10% | |
| P-0030 | 36" RCP | 212 | 0.20% | |
| P-1150-A | 36" RCP | 30 | 8.39% | |
| P-0020 | 36" RCP | 41 | 0.25% | |
| P-0003 | 36" RCP | 71 | 0.25% | |
| P-1020 | 36" RCP | 197 | 0.40% | |
| P-080 | 36" RCP | 29 | 0.40% | |
| P-1070 | 36" RCP | 55 | 0.40% | |
| P-1060 | 36" RCP | 125 | 0.40% | |
| P-1050 | 36" RCP | 43 | 0.40% | |
| P-1040 | 36" RCP | 35 | 0.40% | |
| P-1030 | 36" RCP | 220 | 0.40% | |
| P-1010 | 36" RCP | 40 | 0.14% | |
| P-1245 | 36" RCP | 7 | 2.74% | |
| P-1230 | 36" RCP | 206 | 0.10% | |
| P-1220 | 36" RCP | 154 | 0.15% | |
| P-1030 | 48" RCP | 163 | 0.15% | |
| P-1020 | 48" RCP | 230 | 0.15% | |
| P-1010 | 48" RCP | 70 | 0.15% | |
| P-1070 | 60" RCP | 144 | 0.14% | |
| P-1085 | 60" RCP | 49 | 0.15% | |
| P-1080 | 60" RCP | 140 | 0.15% | |
| P-1120 | 60" RCP | 215 | 0.15% | |
| P-1150 | 60" RCP | 201 | 0.15% | |
| P-1200 | 60" RCP | 142 | 0.15% | |
| P-1190 | 60" RCP | 213 | 0.15% | |
| P-1090 | 60" RCP | 153 | 0.15% | |
| P-1210 | 60" RCP | 123 | 0.15% | |
| P-1160 | 60" RCP | 95 | 0.15% | |
| P-1180 | 60" RCP | 47 | 0.15% | |
| P-1170 | 60" RCP | 186 | 0.15% | |
| P-1140 | 60" RCP | 241 | 0.15% | |
| P-1130 | 60" RCP | 51 | 0.14% | |
| P-1110 | 60" RCP | 219 | 0.15% | |
| P-1100 | 60" RCP | 37 | 0.15% | |
| P-1080 | 60" RCP | 221 | 0.15% | |
| P-1040 | 72" RCP | 106 | 0.15% | |
| P-1030 | 72" RCP | 43 | 0.15% | |
| P-1050 | 72" RCP | 204 | 0.15% | |
| P-1035 | 72" RCP | 208 | 0.15% | |
| P-1020 | 72" RCP | 38 | 0.14% | |
| P-1005 | EX. 15" RCP | 60 | 0.03% | |
| P-1040 | EX. 18" RCP | 208 | 0.02% | |
| P-1035 | EX. 18" RCP | 28 | 0.73% | |
| P-1030 | EX. 18" RCP | 66 | 2.06% | |
| P-1025 | EX. 18" RCP | 49 | 0.53% | |
| P-1020 | EX. 18" RCP | 35 | 2.16% | |
| P-1015 | EX. 18" RCP | 32 | 0.00% | |
| P-1010 | EX. 18" RCP | 40 | 0.00% | |
| P-1060 | EX. 24" RCP | 260 | 0.52% | |
| P-1055 | EX. 24" RCP | 287 | 0.00% | |
| P-1050 | EX. 24" RCP | 152 | 0.00% | |
| P-1045 | EX. 24" RCP | 86 | 1.16% | |
| P-1065 | EX. 30" RCP | 112 | 0.12% | |
| P-1075 | EX. 36" RCP | 36 | 0.52% | |
| P-1080 | EX. 36" RCP | 66 | 0.00% | |
| P-1070 | EX. 36" RCP | 45 | 0.60% | |
| P-1280 | EX. 36" RCP | 51 | 0.10% | |
| P-1260 | EX. 36" RCP | 45 | 2.79% | |
| P-1085 | EX. 48" RCP | 205 | 0.34% | |



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| Legend | |
|-----------------------------|--|
| LD | LIMITS OF DISTURBANCE |
| 15 | EXISTING CONTOURS |
| 20 | PROPOSED CONTOUR |
| SF | SILT FENCE |
| DSF | DOUBLE ROW SILT FENCE |
| → | DRAINAGE FLOW ARROW |
| RIPRAP | RIPRAP |
| PROPOSED PERMANENT EASEMENT | PROPOSED PERMANENT EASEMENT |
| PROPOSED TEMPORARY EASEMENT | PROPOSED TEMPORARY EASEMENT |
| PROPOSED PERMANENT EASEMENT | PROPOSED PERMANENT EASEMENT |
| DI | INLET ADAPTOR - 24"X36" DROP INLET PER SCODOT 719-110-01 |
| JN | INLET ADAPTOR - MANHOLE PER SCODOT 719-505-03 |
| T9 | INLET ADAPTOR - TYPE 9 PER SCODOT 719-009-04 |
| EG | EXISTING GRADE |
| FG | FINISHED GRADE |
| EOP | EDGE OF PAVEMENT |
| 16.50 | SPOT ELEVATION |

| | | | |
|---------------------|-----|------|------------|
| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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|----------------------------------|------|-------|------------|------------|
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| Issued | By | Aspd | YYYY.MM.DD | |
| File Name: 1035_C4_GRADING_INDEX | SGC | BK | 2020.10.09 | |
| | Dwn. | Dsgn. | Chkd. | YYYY.MM.DD |

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Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN SHEET INDEX

| | |
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| Project No. 178421035 | Scale |
| Revision Sheet C4-00 of 65 | Drawing No. C4-00 |



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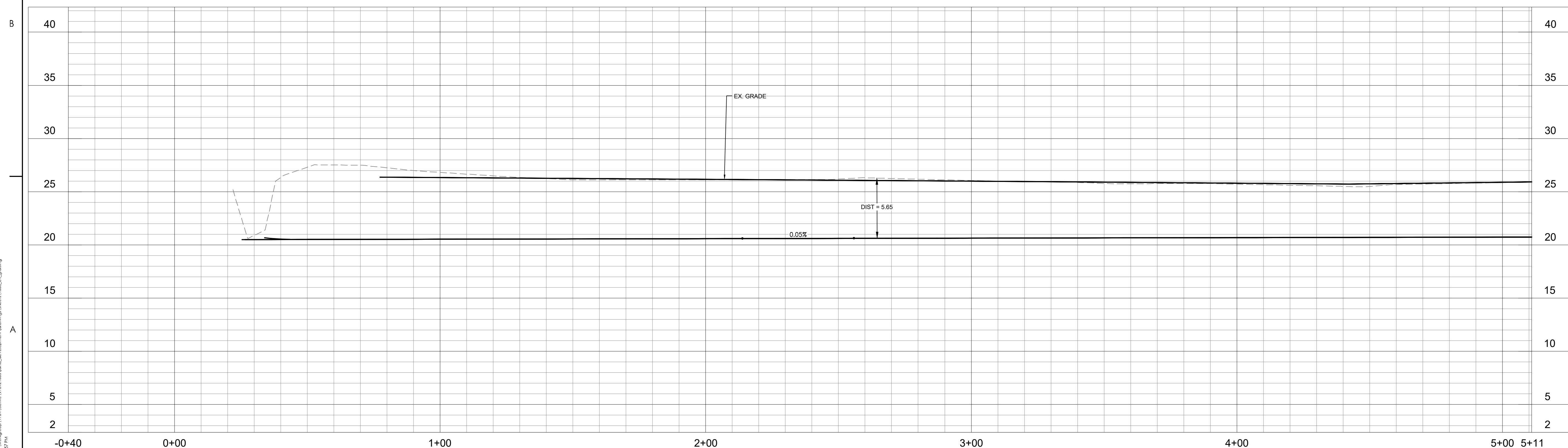
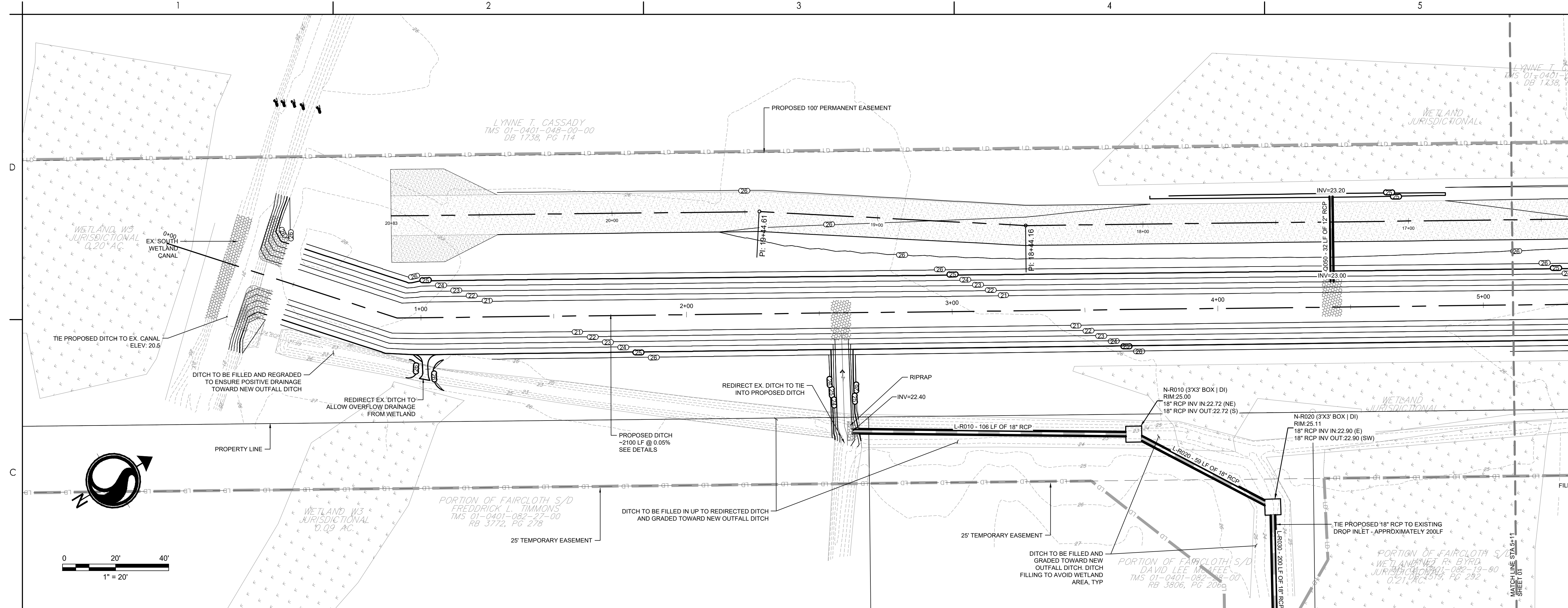
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|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | RIPRAP |
|  | PROPOSED PERMANENT FILL |
|  | PROPOSED TEMPORARY FILL |
|  | PROPOSED TEMPORARY FILL |
|  | PROPOSED PERMANENT FILL |
|  | INLET ADAPTOR - 24"x36" |
|  | SCDOT 719-110-01 |
|  | INLET ADAPTOR - MANHOLE |
|  | INLET ADAPTOR - TYPE 9 |
|  | EXISTING GRADE |
|  | FINISHED GRADE |
|  | EDGE OF PAVEMENT |
|  | SPOT ELEVATION |

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| | | | YYYY.MM.DD |



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| Project No. 178421035 | | Scale |
| Revision | Sheet C4-01 of 65 | Drawing No. C4-01 |





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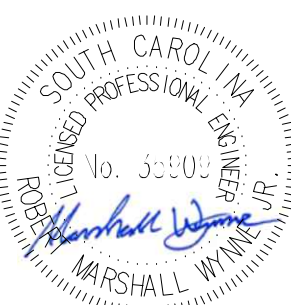
Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
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- T9 INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- SPOT ELEVATION

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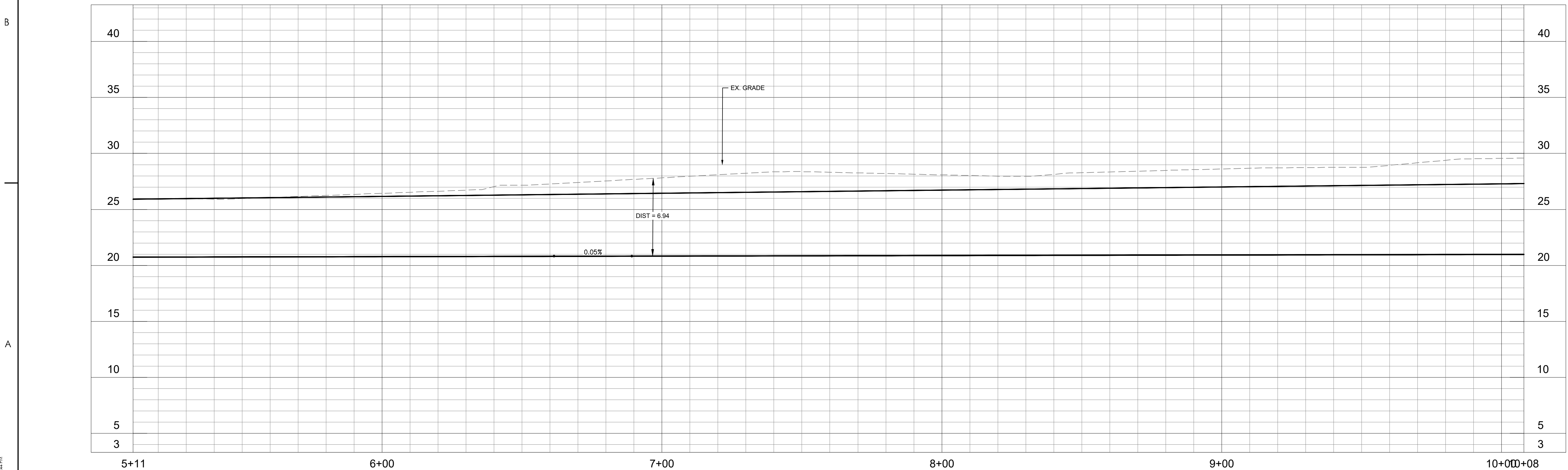
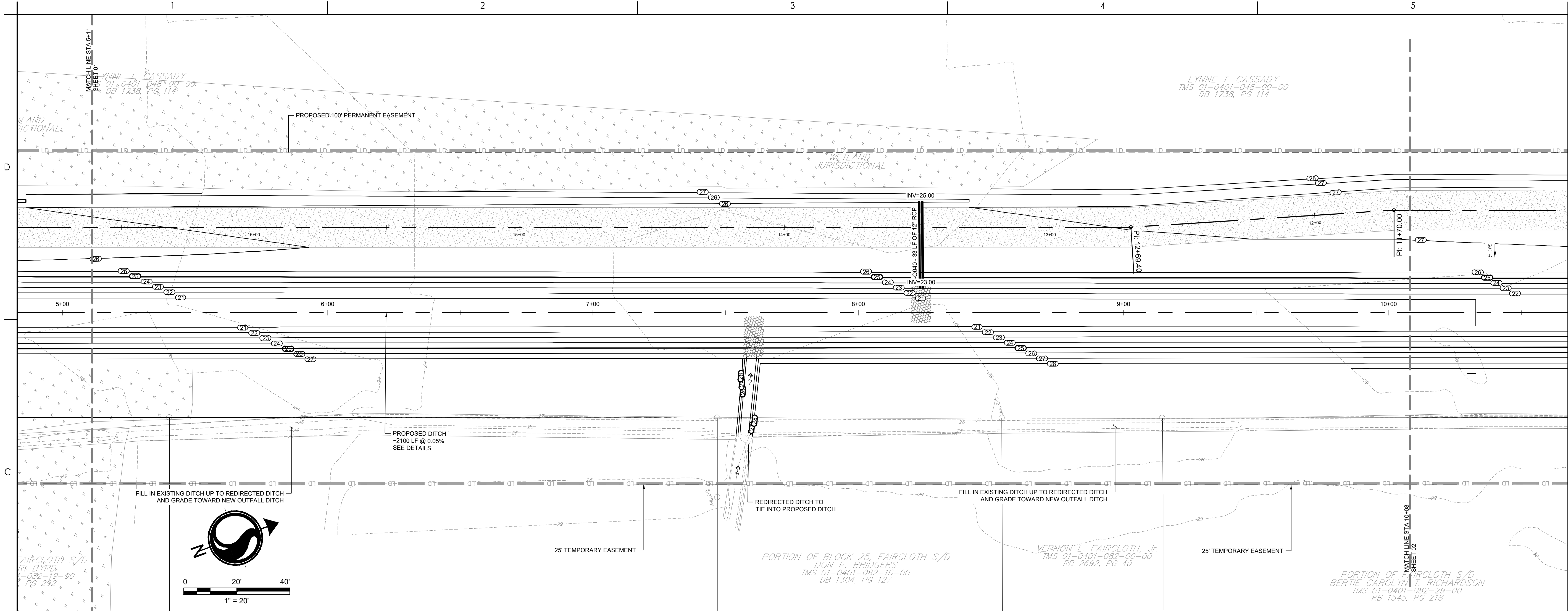
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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision C4-02 of 65 | Drawing No. C4-02 |



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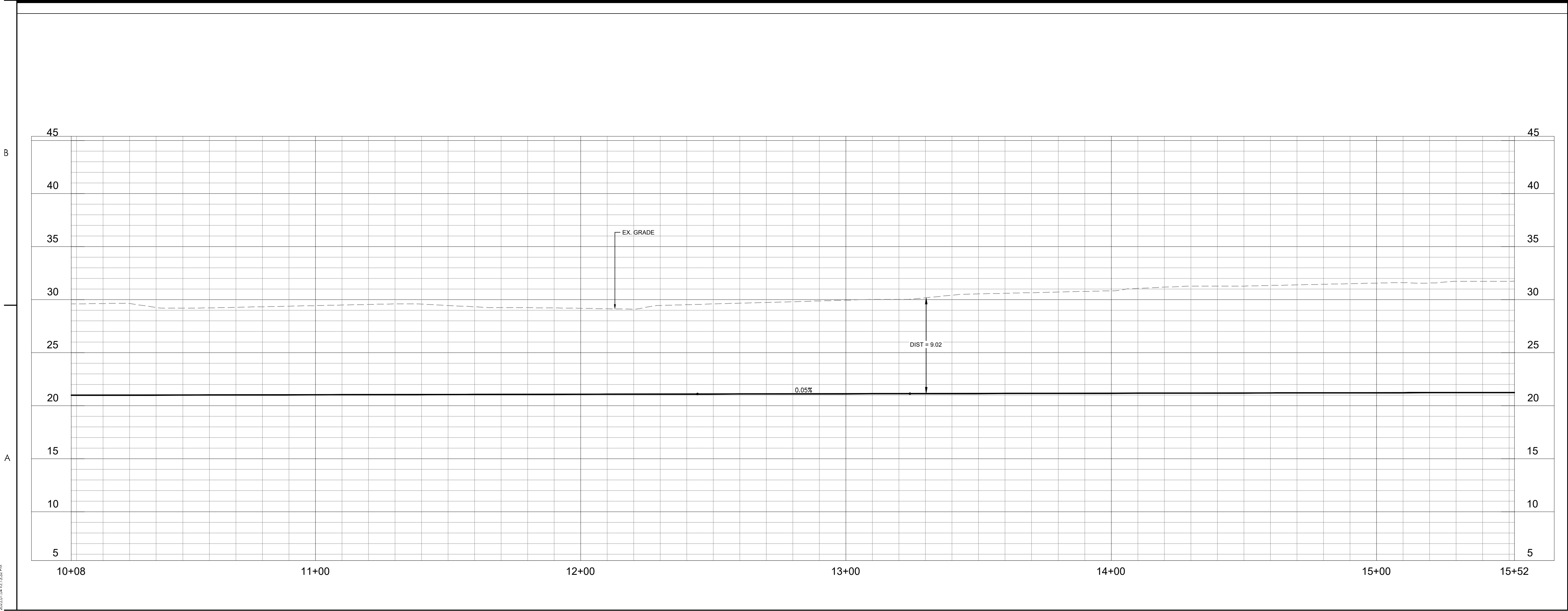
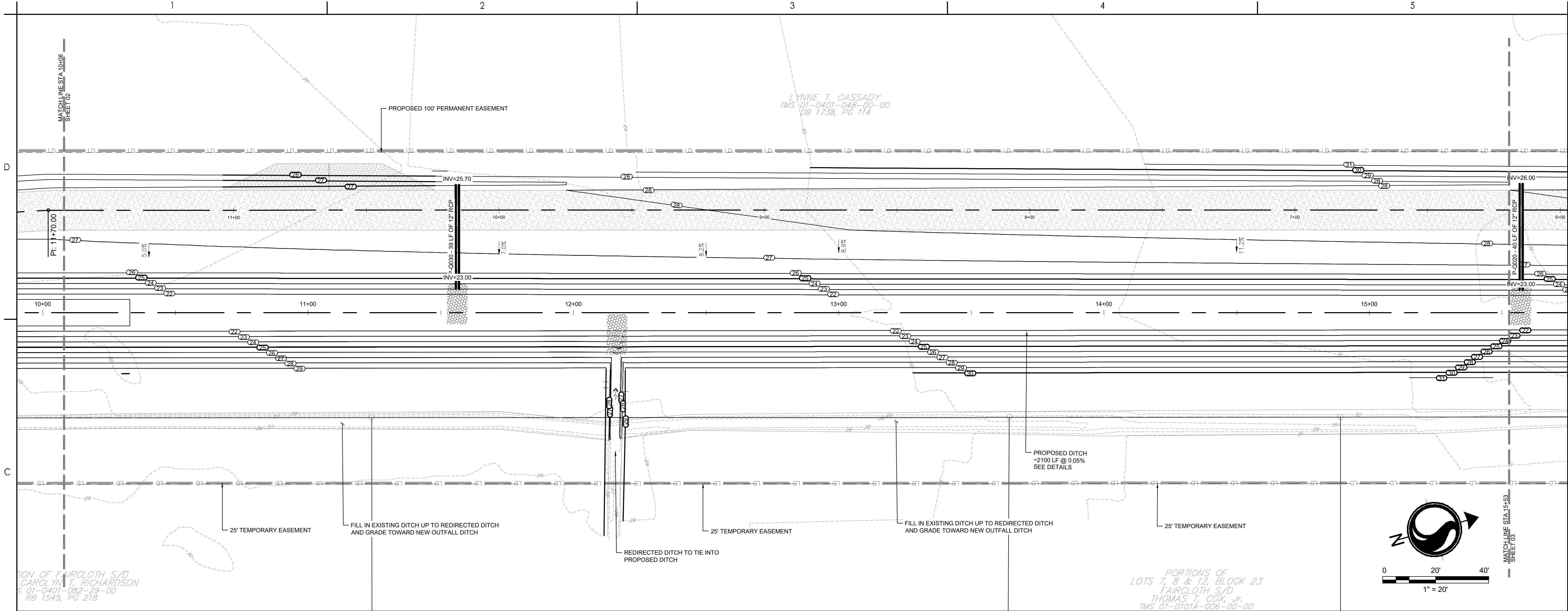
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Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- 28 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED TEMPORARY EASEMENT
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- SPOT ELEVATION

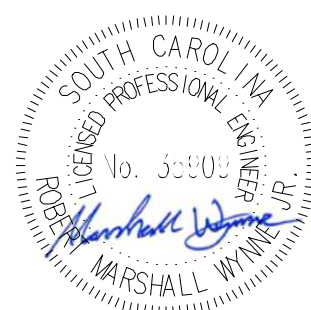


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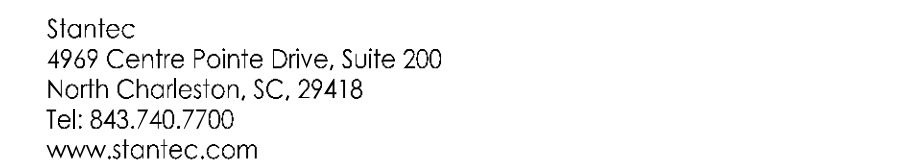
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Title
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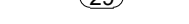





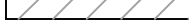







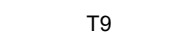
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| Revision Sheet C4-03 of 65 | Drawing No. C4-03 |



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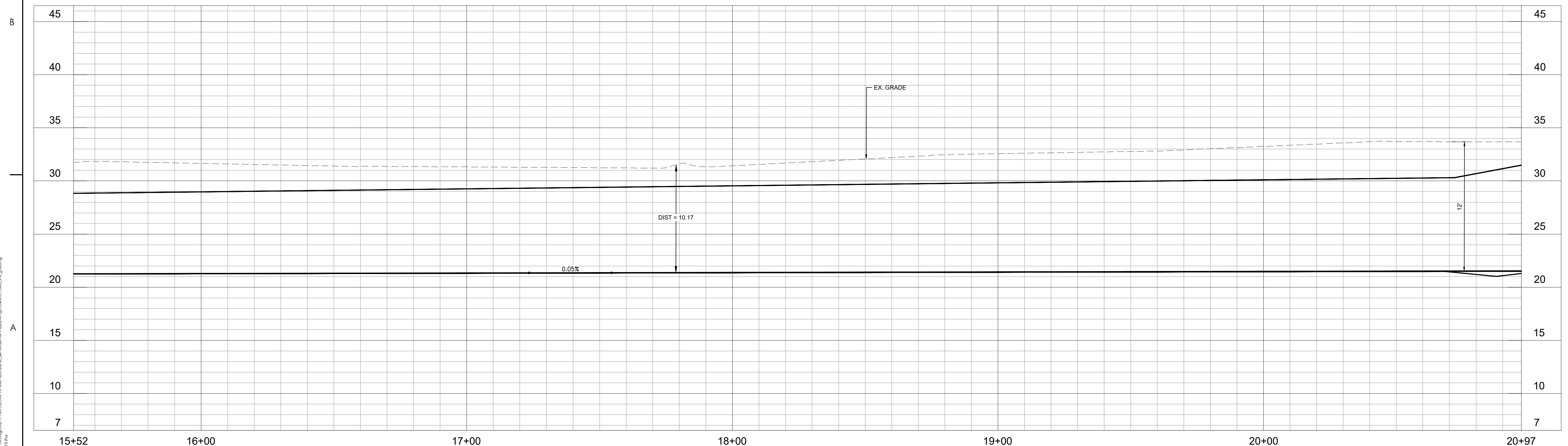
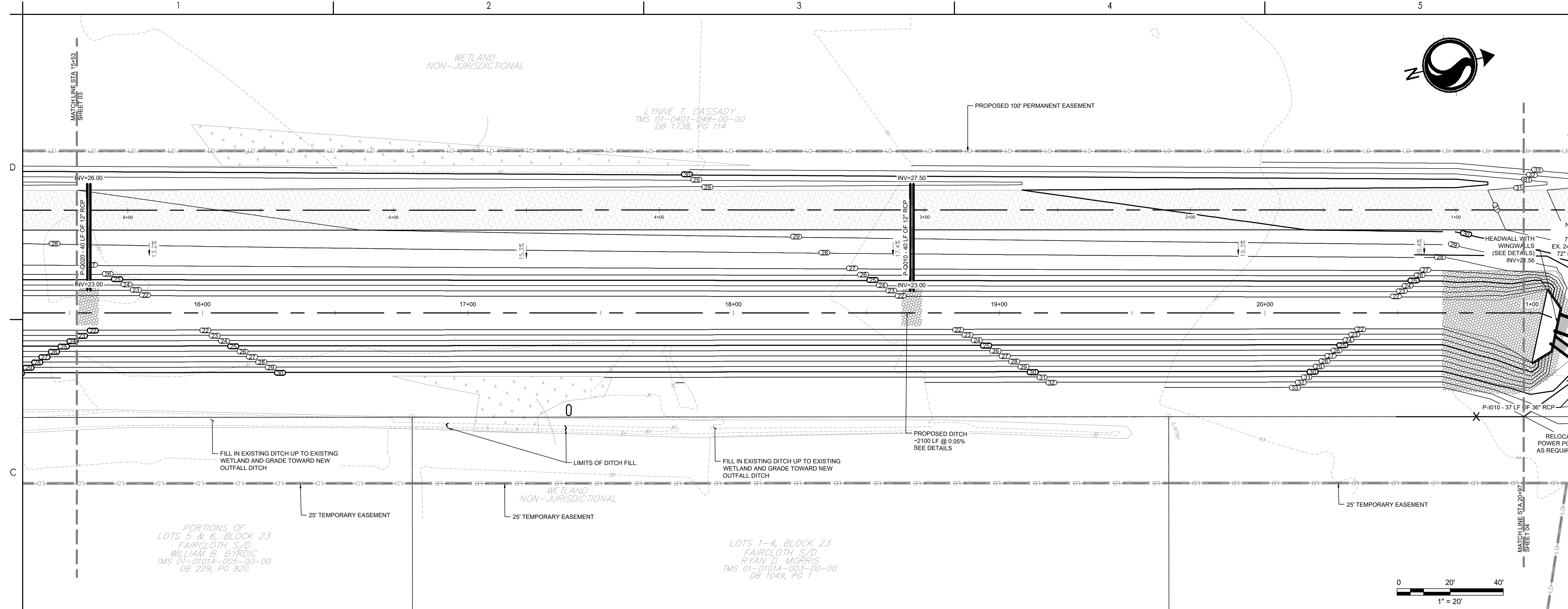


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|  | PROPOSED CONTOUR |
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|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
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|  | PROPOSED PERMANENT EASEMENT |
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|  | INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04 |
|  | EXISTING GRADE |
|  | FINISHED GRADE |
|  | EDGE OF PAVEMENT |
|  | SPOT ELEVATION |

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| Revision Sheet C4-04 of 65 | Drawing No. C4-04 |





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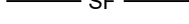













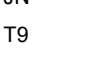
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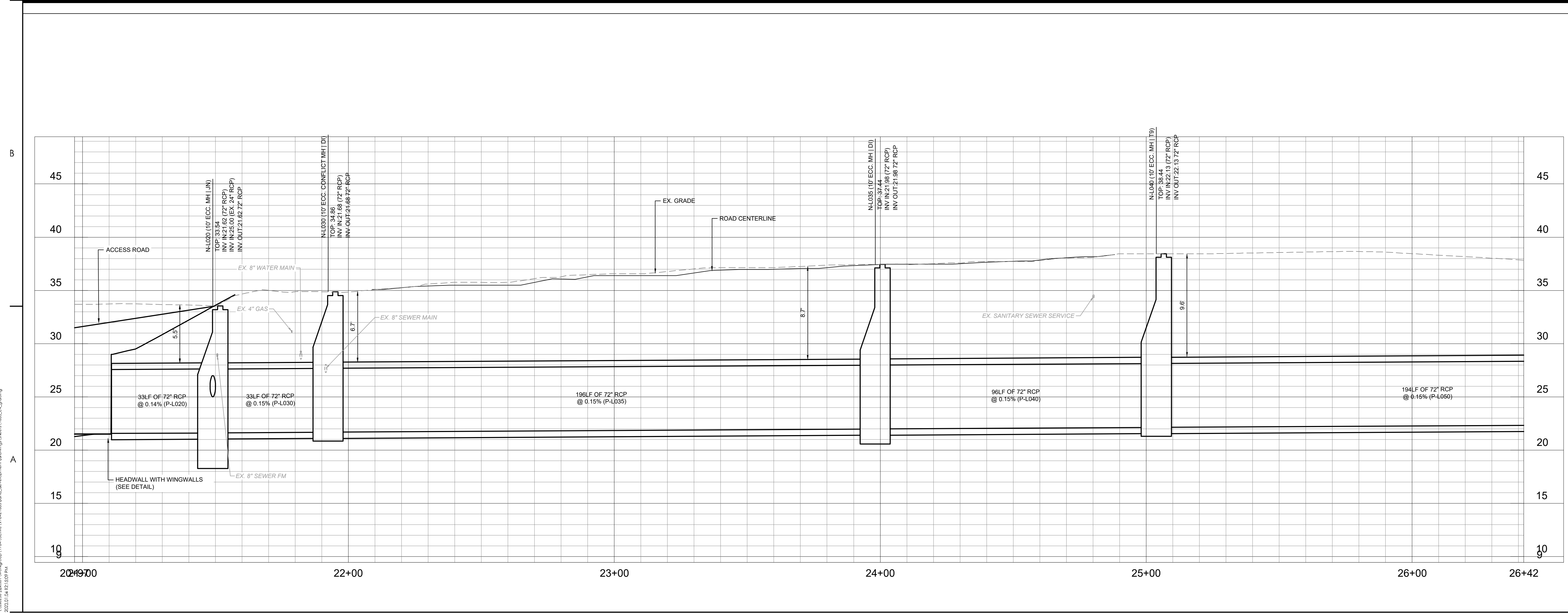
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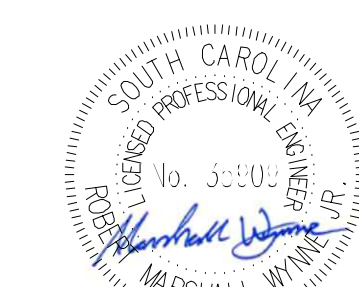
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|  | LIMITS OF DISTURBANCE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | RIPRAP |
|  | PROPOSED PERMANENT EASEMENT |
|  | PROPOSED TEMPORARY EASEMENT |
|  | PROPOSED TEMPORARY EASEMENT |
|  | PROPOSED PERMANENT EASEMENT |
|  | DI |
| | INLET ADAPTOR - 24"x36" DROP INLET PER SCDDOT 719-110-01 |
|  | JN |
| | INLET ADAPTOR - MANHOLE PER SCDDOT 719-505-03 |
|  | T9 |
| | INLET ADAPTOR - TYPE 9 PER SCDDOT 719-009-04 |
|  | EG |
| | EXISTING GRADE |
|  | FG |
| | FINISHED GRADE |
|  | EOP |
| | EDGE OF PAVEMENT |
|  | |
| | SPOT ELEVATION |



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| PER BID ADDENDUM #2 | RMW | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |
| Revision | By | Appd | YYYY.MM.DD |

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| Issued | By | Appd | YYYY.MM.DD |
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| | Dwn. | Dsgn. | Chkd. |
| | | | YYYY.MM.DD |

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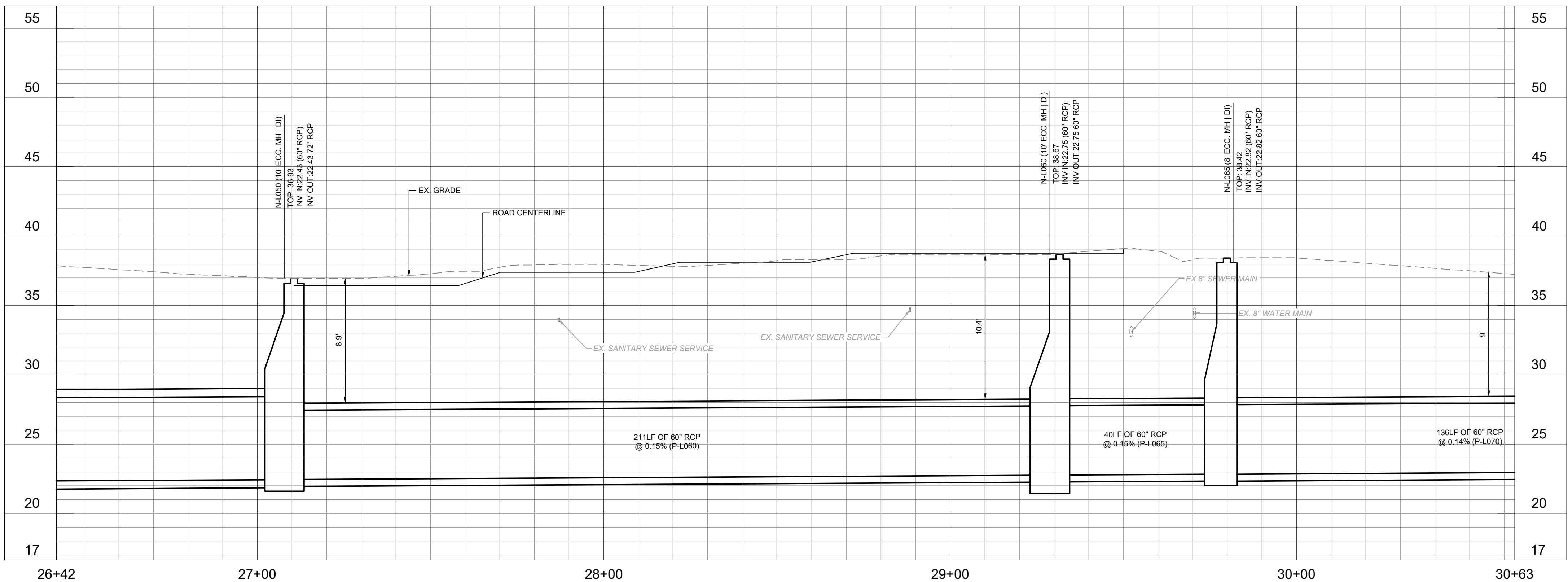
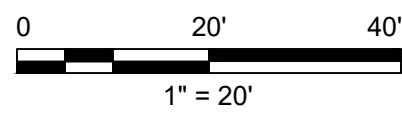
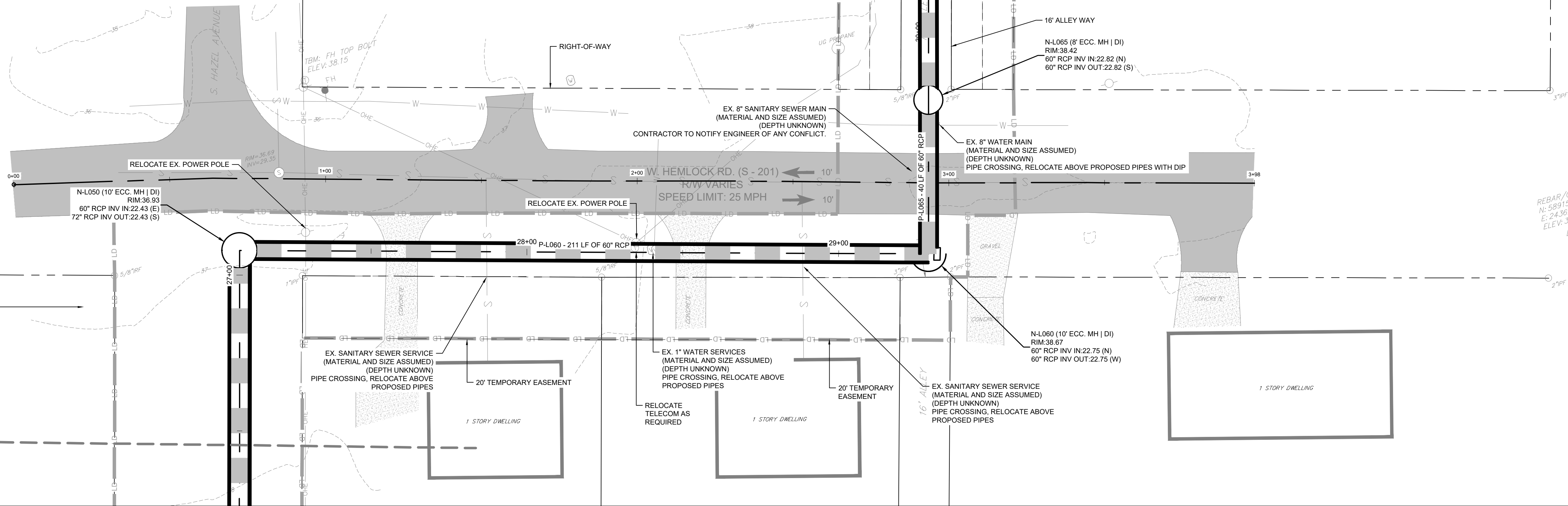
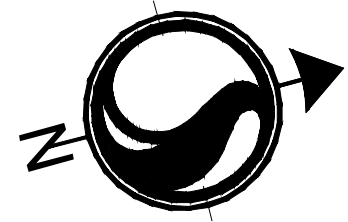
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

| | | |
|--------------------------|----------------------|-----------------------------|
| Project No. 178421035 | | Scale |
| Revision | Sheet C4-05 of 65 | Drawing No. C4-05 |



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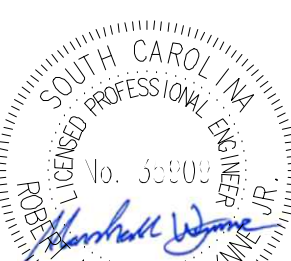
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- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- DI INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01
- JN INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03
- T9 INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- SPOT ELEVATION

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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

| | |
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| Project No. 178421035 | Scale |
| Revision C4-06 of 65 | Drawing No. C4-06 |



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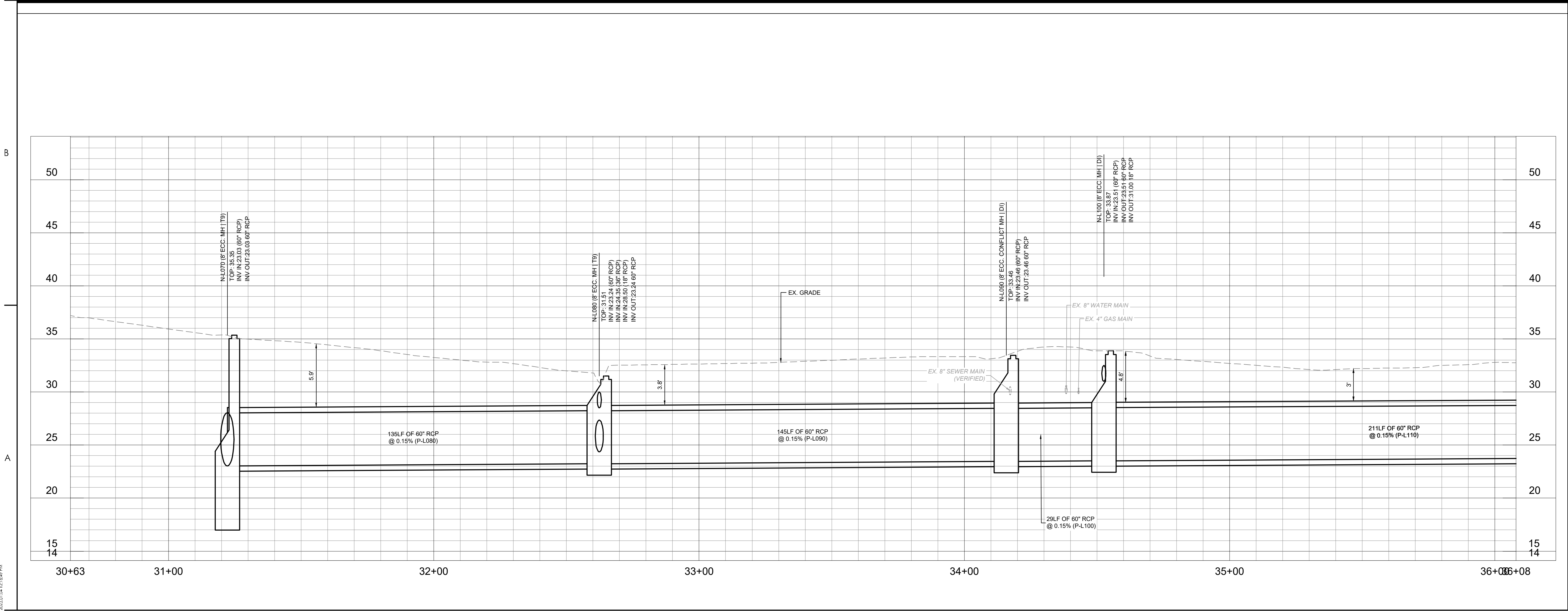
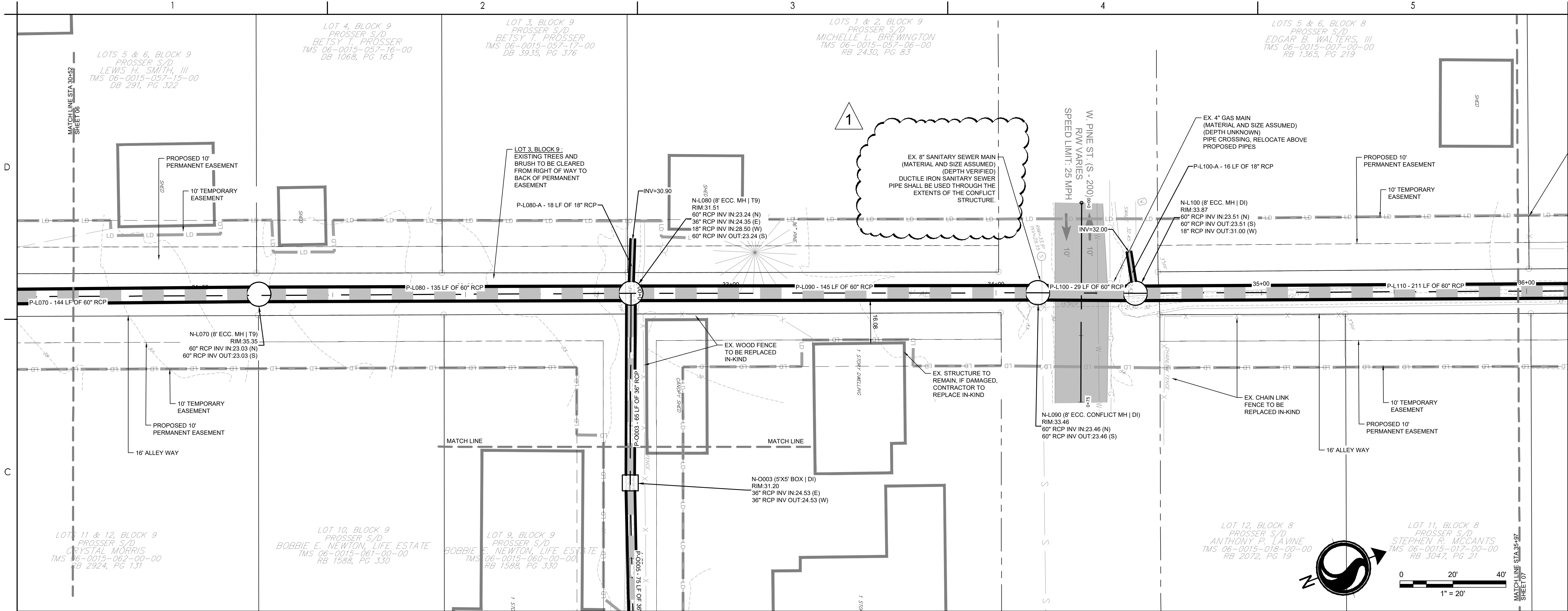
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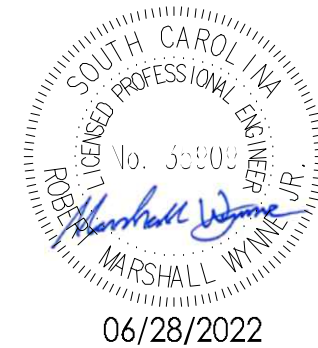
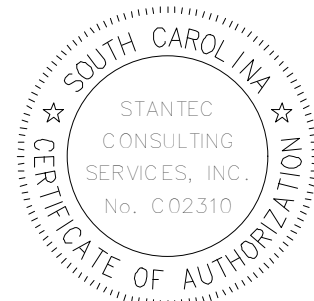
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- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- DI INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01
- JN INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03
- T9 INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- SPOT ELEVATION



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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
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| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision 1 | Sheet C4-07 of 65 |
| Drawing No. C4-07 | |



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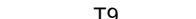


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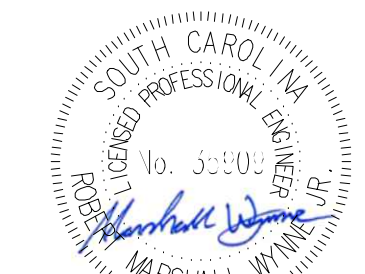
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|  | 15' |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | RIPRAP |
|  | PROPOSED PERMANENT EASEMENT |
|  | PROPOSED TEMPORARY EASEMENT |
|  | PROPOSED TEMPORARY EASEMENT |
|  | PROPOSED PERMANENT EASEMENT |
|  | INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01 |
|  | INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03 |
|  | INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04 |
|  | EXISTING GRADE |
|  | FINISHED GRADE |
|  | EDGE OF PAVEMENT |
|  | SPOT ELEVATION |

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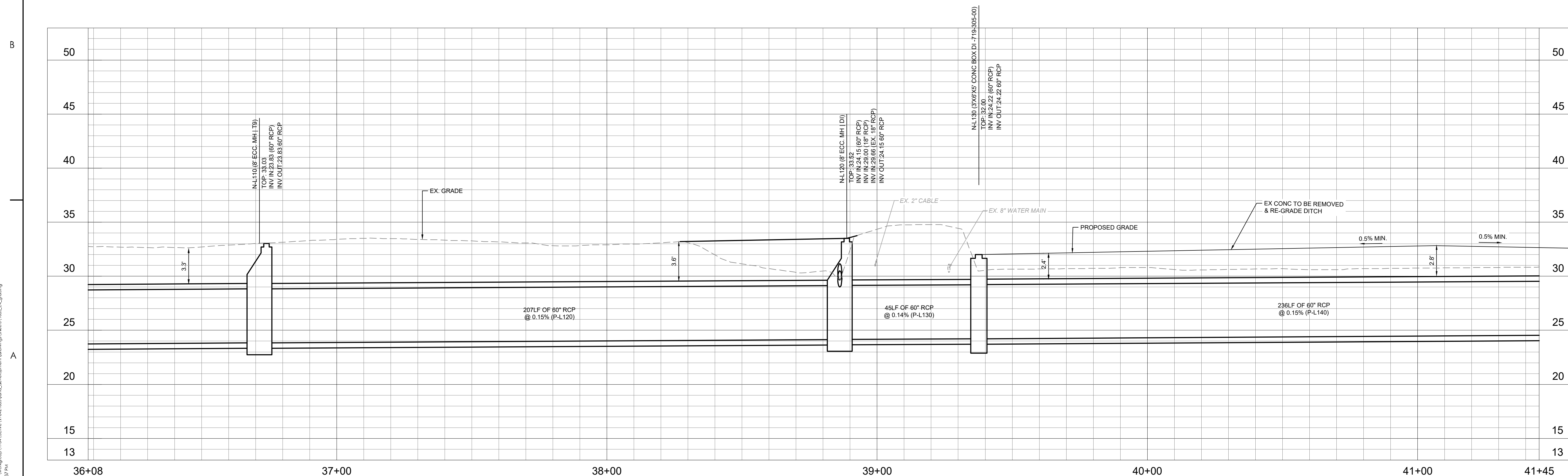
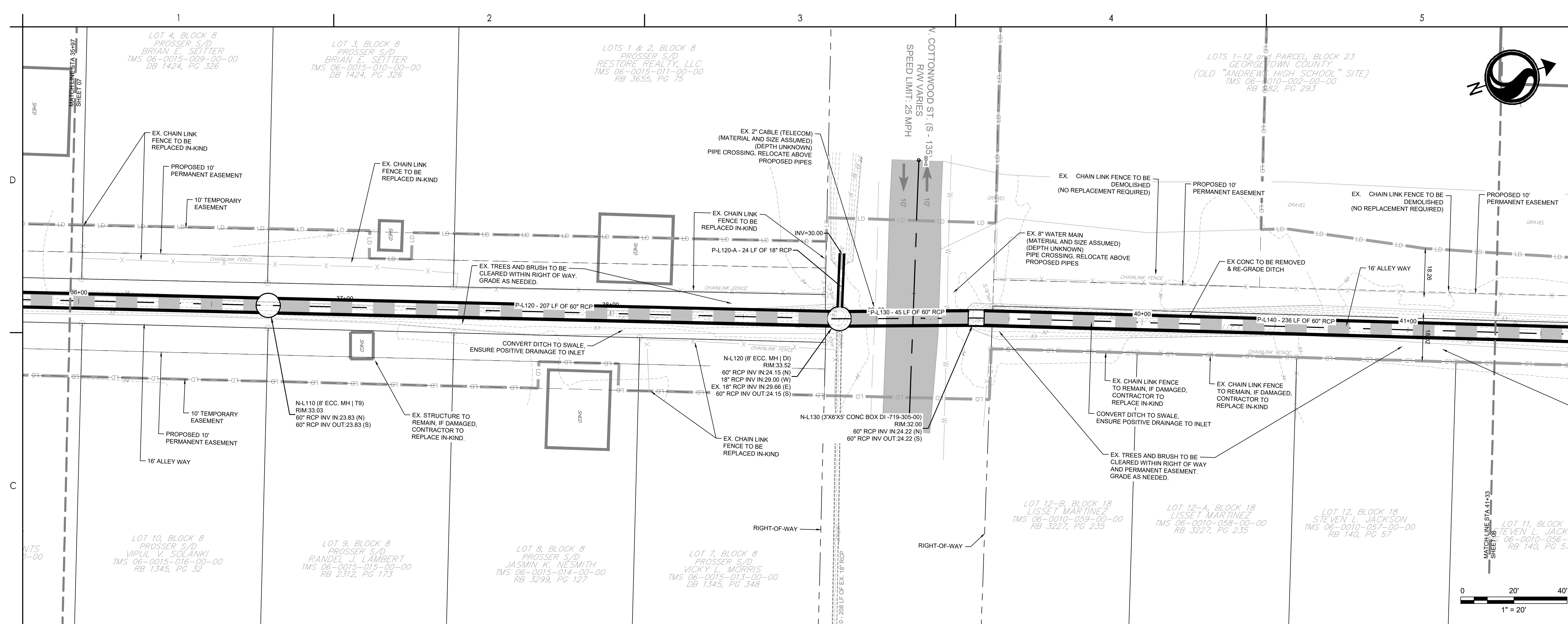
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

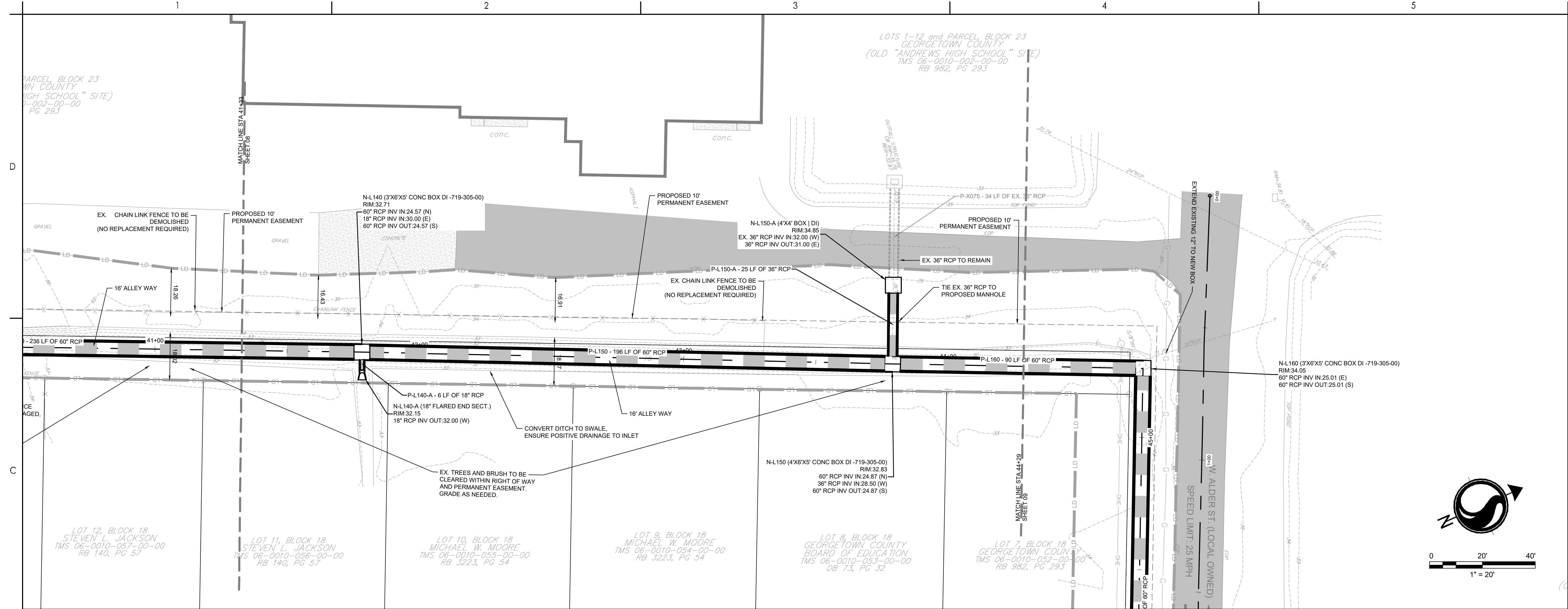
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| Project No. 178421035 | | Scale |
| Revision | Sheet C4-08 of 65 | Drawing No. C4-08 |



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- Legend
- LD

15

20

SF

DSF

DI

JN

T9

EG

FG

EOP

LIMITS OF DISTURBANCE
EXISTING CONTOURS
PROPOSED CONTOUR
SILT FENCE
DOUBLE ROW SILT FENCE
DRAINAGE FLOW ARROW
RIPRAP
PROPOSED PERMANENT EASEMENT
PROPOSED TEMPORARY EASEMENT
PROPOSED PERMANENT EASEMENT
INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01
INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03
INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
EXISTING GRADE
FINISHED GRADE
EDGE OF PAVEMENT
SPOT ELEVATION

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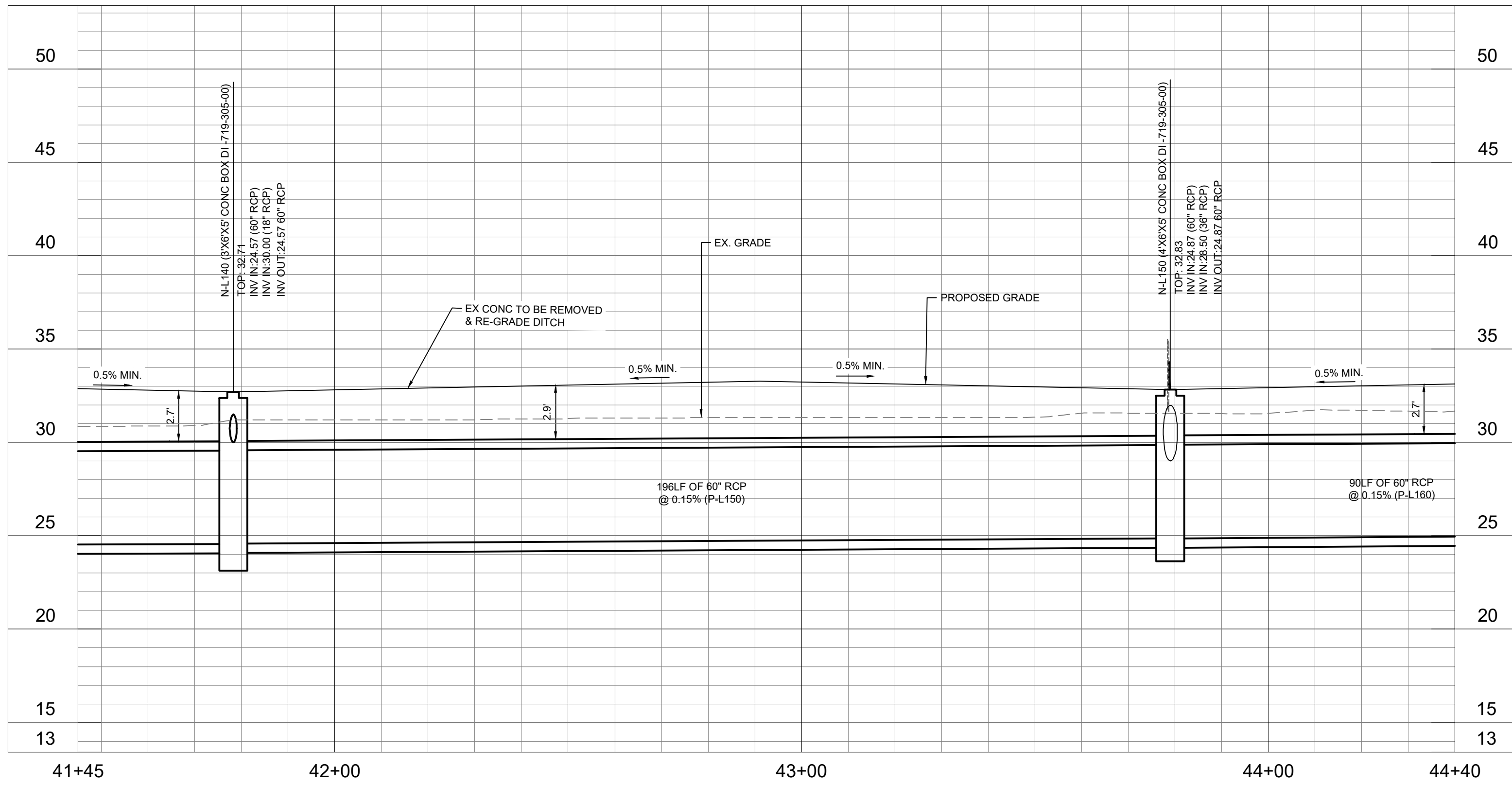
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PHASE 2

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GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

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| Project No. 178421035 | Scale |
| Revision C4-09 of 65 | Drawing No. C4-09 |



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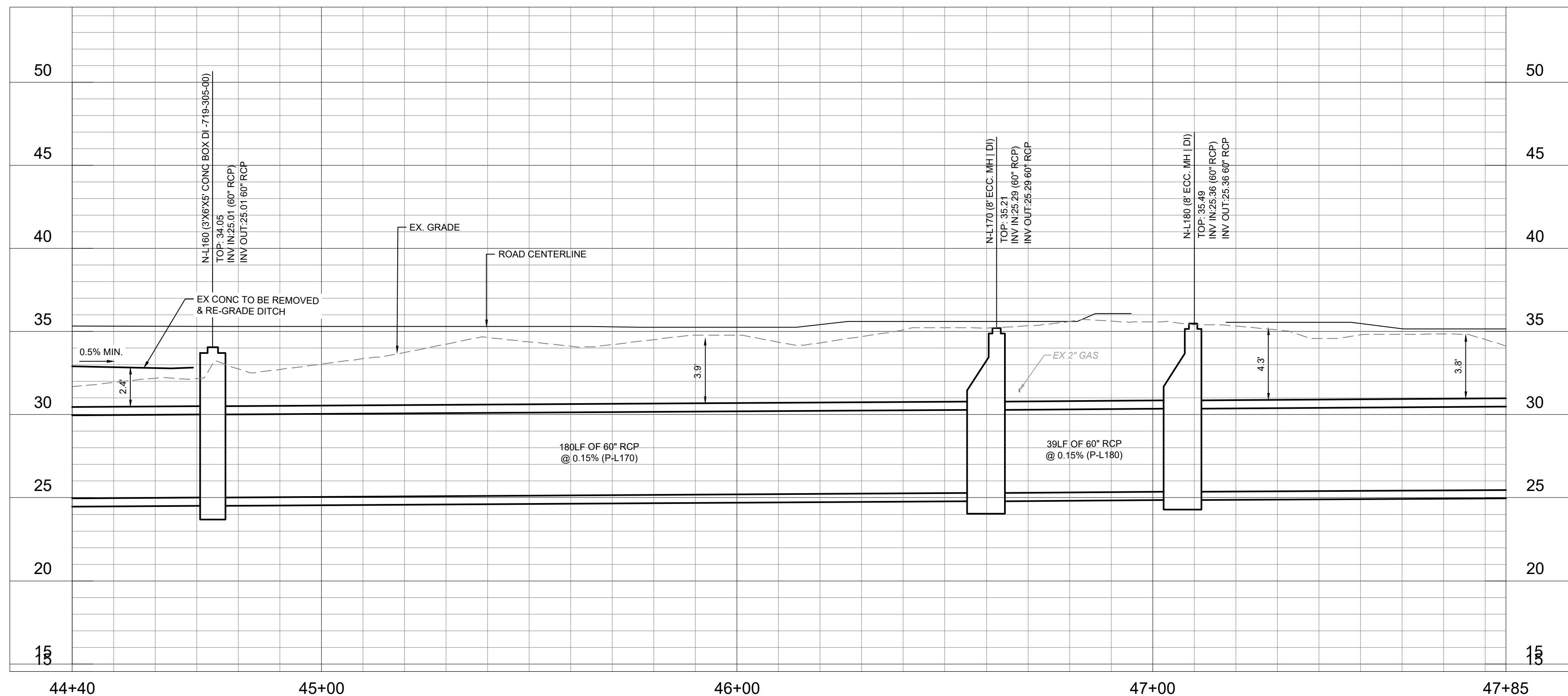
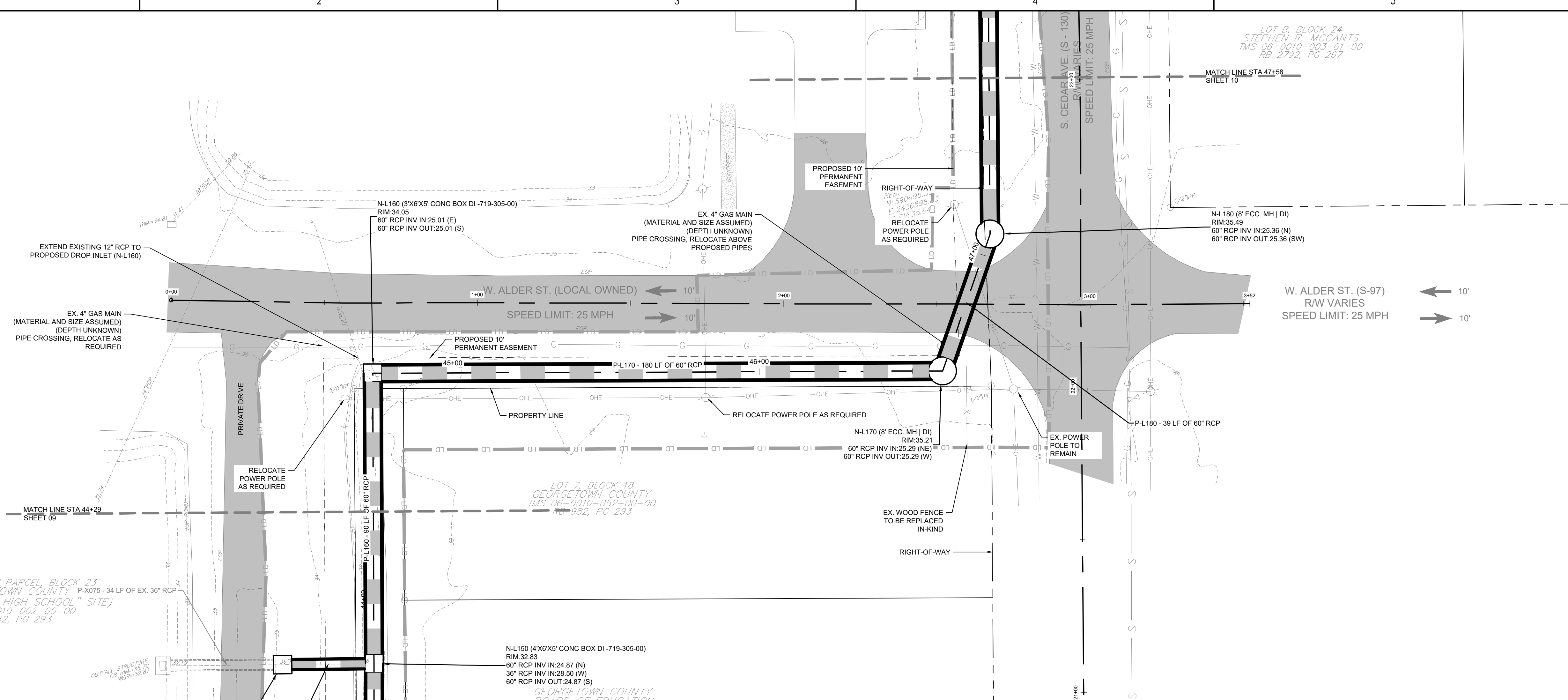
ORIGINAL SHEET - ARCH D

D

C

B

A



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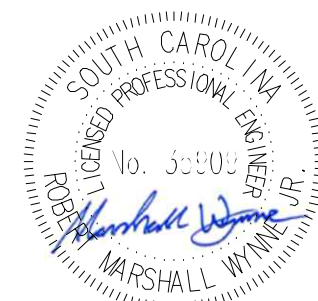
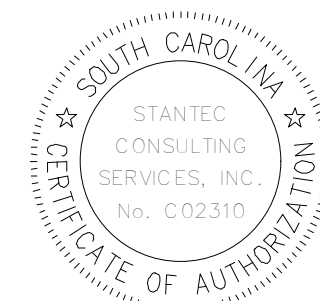
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- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- DI INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01
- JN INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03
- T9 INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- 16.50 SPOT ELEVATION

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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

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| Project No. 178421035 | Scale |
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| Revision --- | Sheet C4-10 of 65 | Drawing No. C4-10 |
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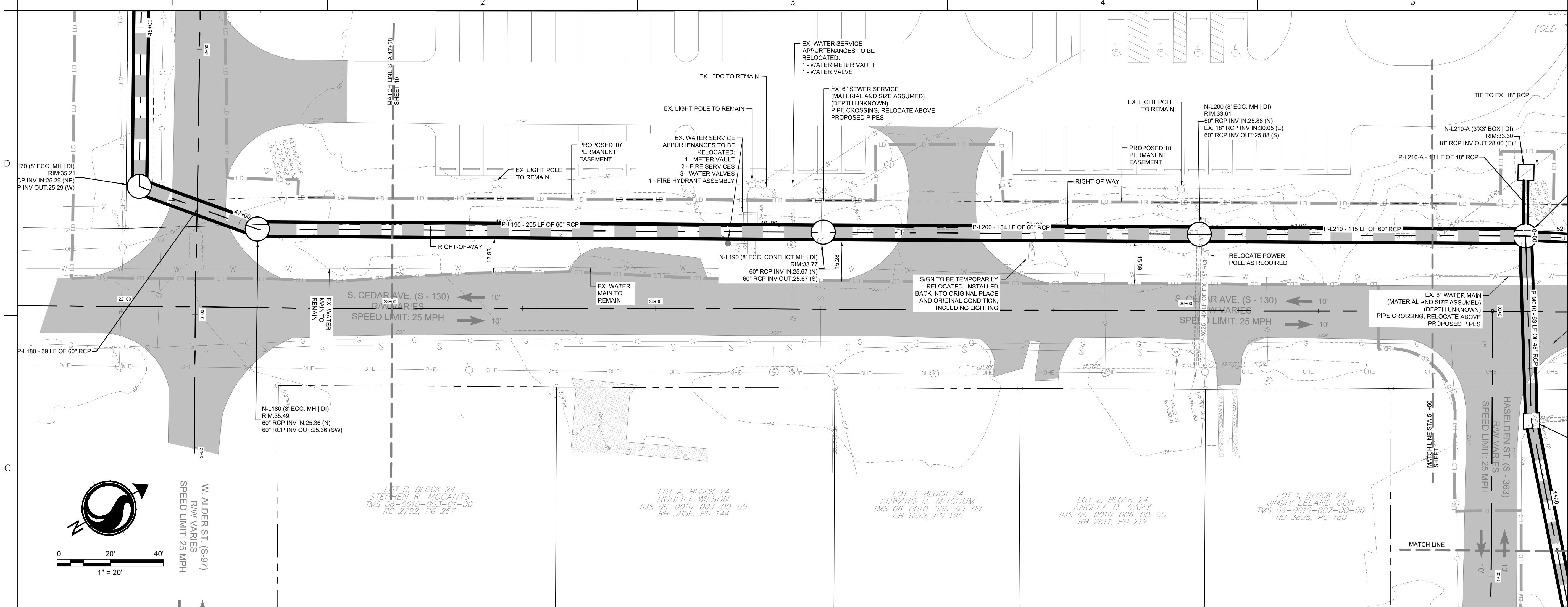
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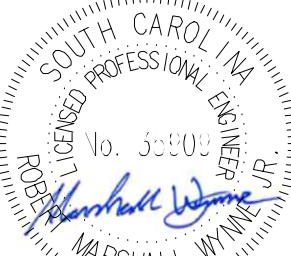
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- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- DI INLET ADAPTOR - 24"x36" DROP INLET PER SCDOT 719-110-01
- JN INLET ADAPTOR - MANHOLE PER SCDOT 719-505-03
- T9 INLET ADAPTOR - TYPE 9 PER SCDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- SPOT ELEVATION



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| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
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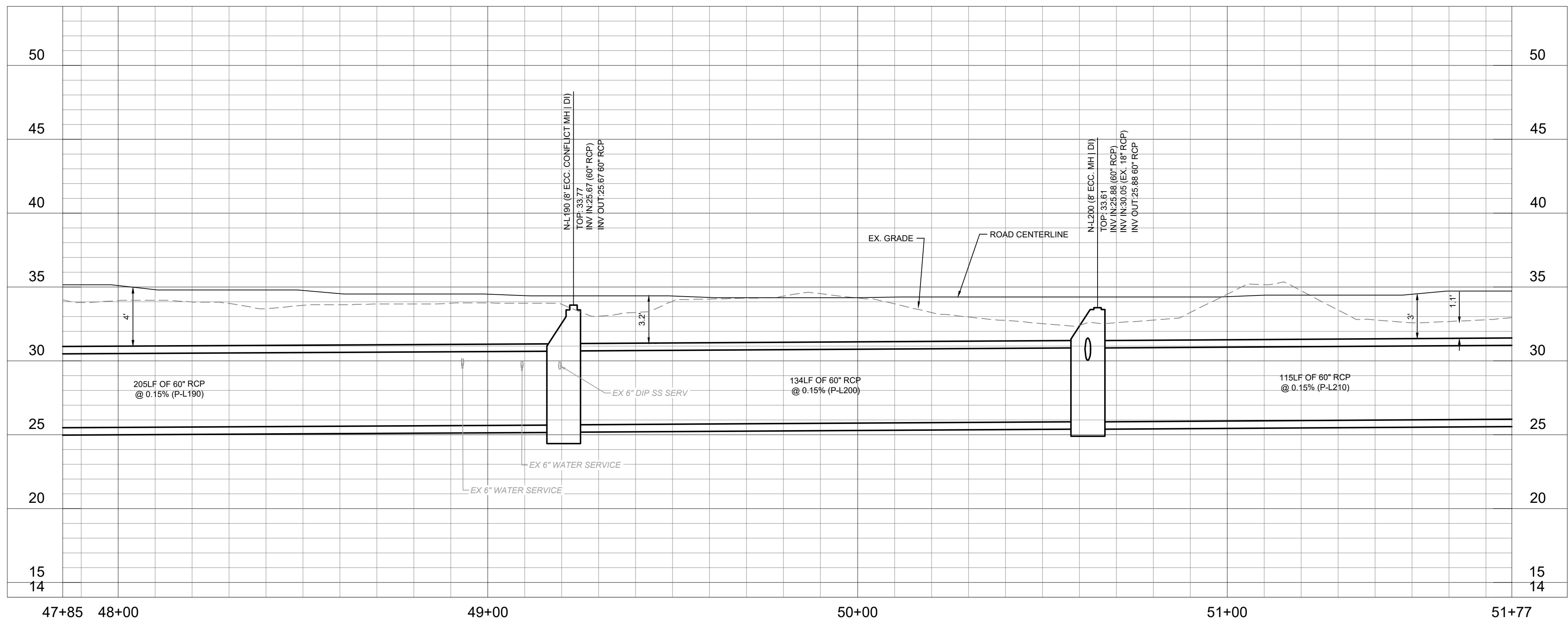
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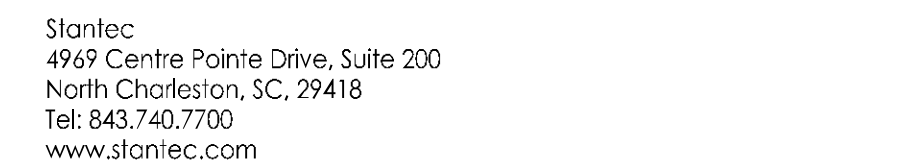
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PHASE 2

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GEORGETOWN COUNTY, SOUTH CAROLINA

Title
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| 178421035 | |
| Revision | Sheet |
| --- | C4-11 of 65 |
| | Drawing No. |
| | C4-11 |





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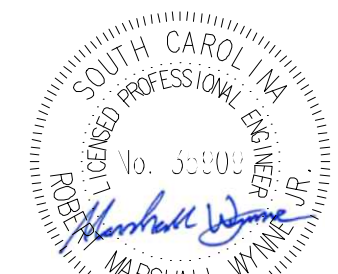
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|  | LIMITS OF DISTURBANCE |
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOUR |
|  | SILT FENCE |
|  | DOUBLE ROW SILT FENCE |
|  | DRAINAGE FLOW ARROW |
|  | RIPRAP |
|  | PROPOSED PERMANENT IMPROVEMENT |
|  | PROPOSED TEMPORARY IMPROVEMENT |
|  | PROPOSED TEMPORARY IMPROVEMENT |
|  | PROPOSED PERMANENT IMPROVEMENT |
|  | INLET ADAPTOR - 24"x36" SCODT 719-110-01 |
| DI | |
| JN | INLET ADAPTOR - MANHOLE |
| T9 | INLET ADAPTOR - TYPE 9 |
| EG | EXISTING GRADE |
| FG | FINISHED GRADE |
| EOP | EDGE OF PAVEMENT |
|  | SPOT ELEVATION |

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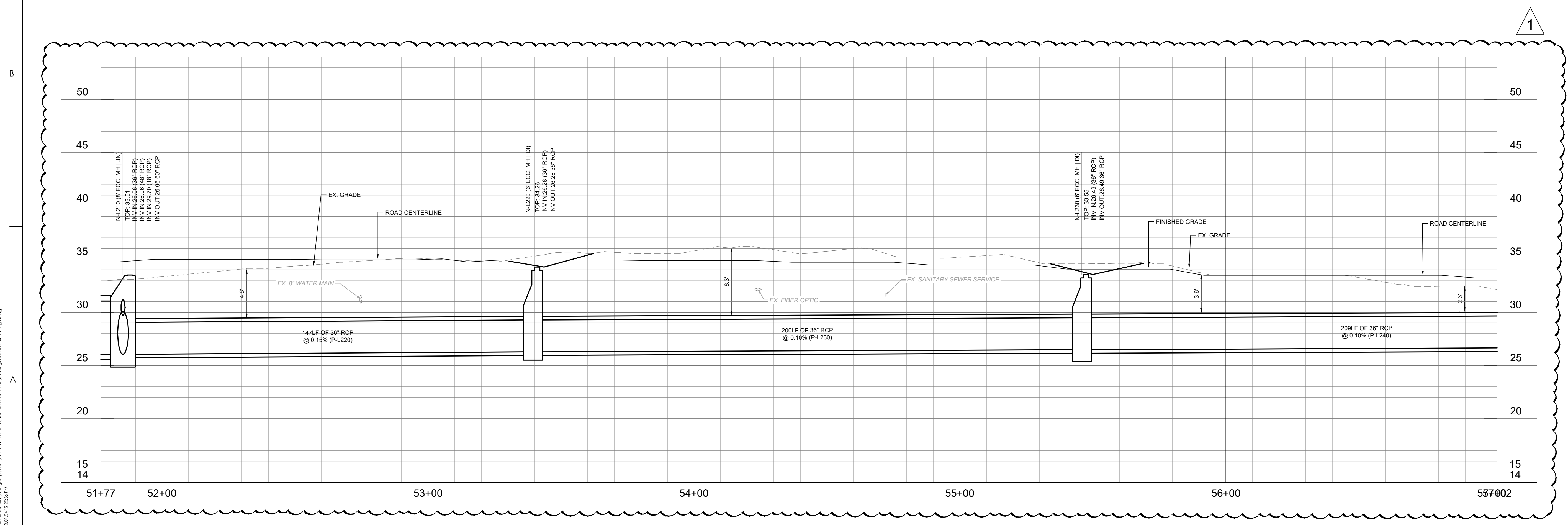
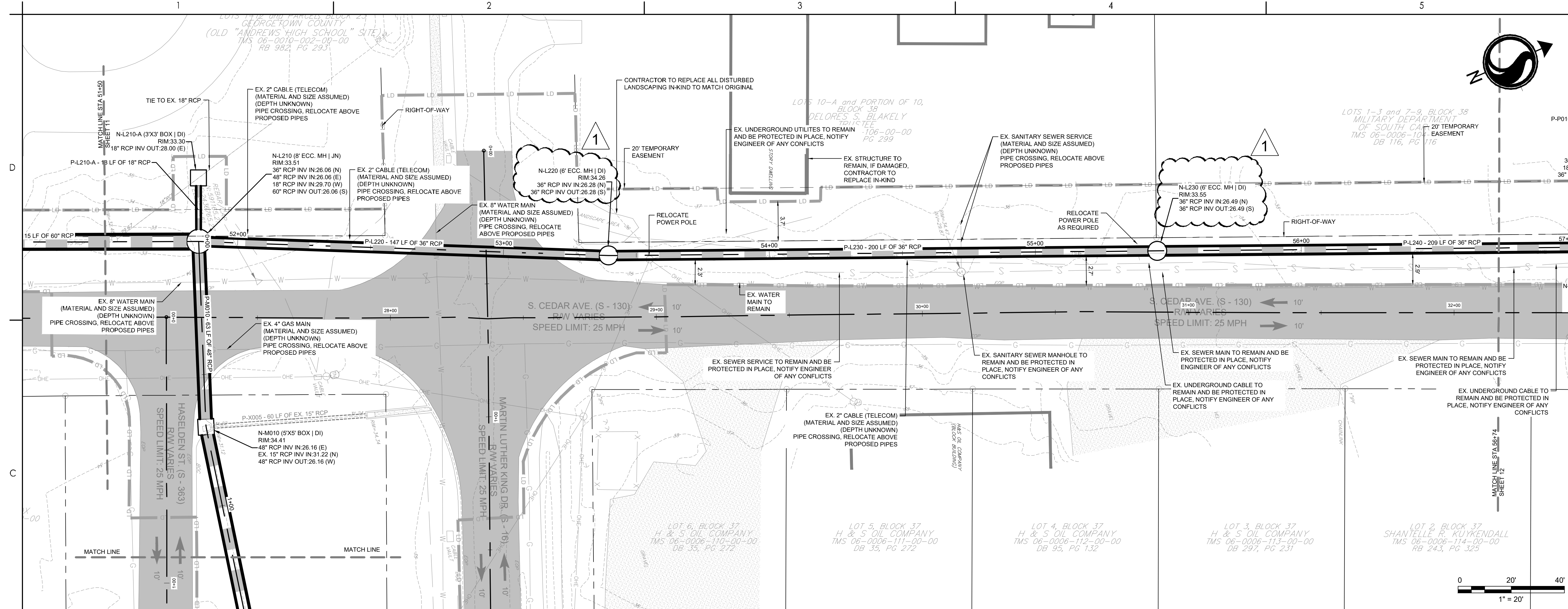
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

| | | |
|--------------------------|----------------------|-----------------------------|
| Project No. 178421035 | | Scale |
| Revision 1 | Sheet C4-12 of 65 | Drawing No. C4-12 |



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ORIGINAL SHEET - ARCH D



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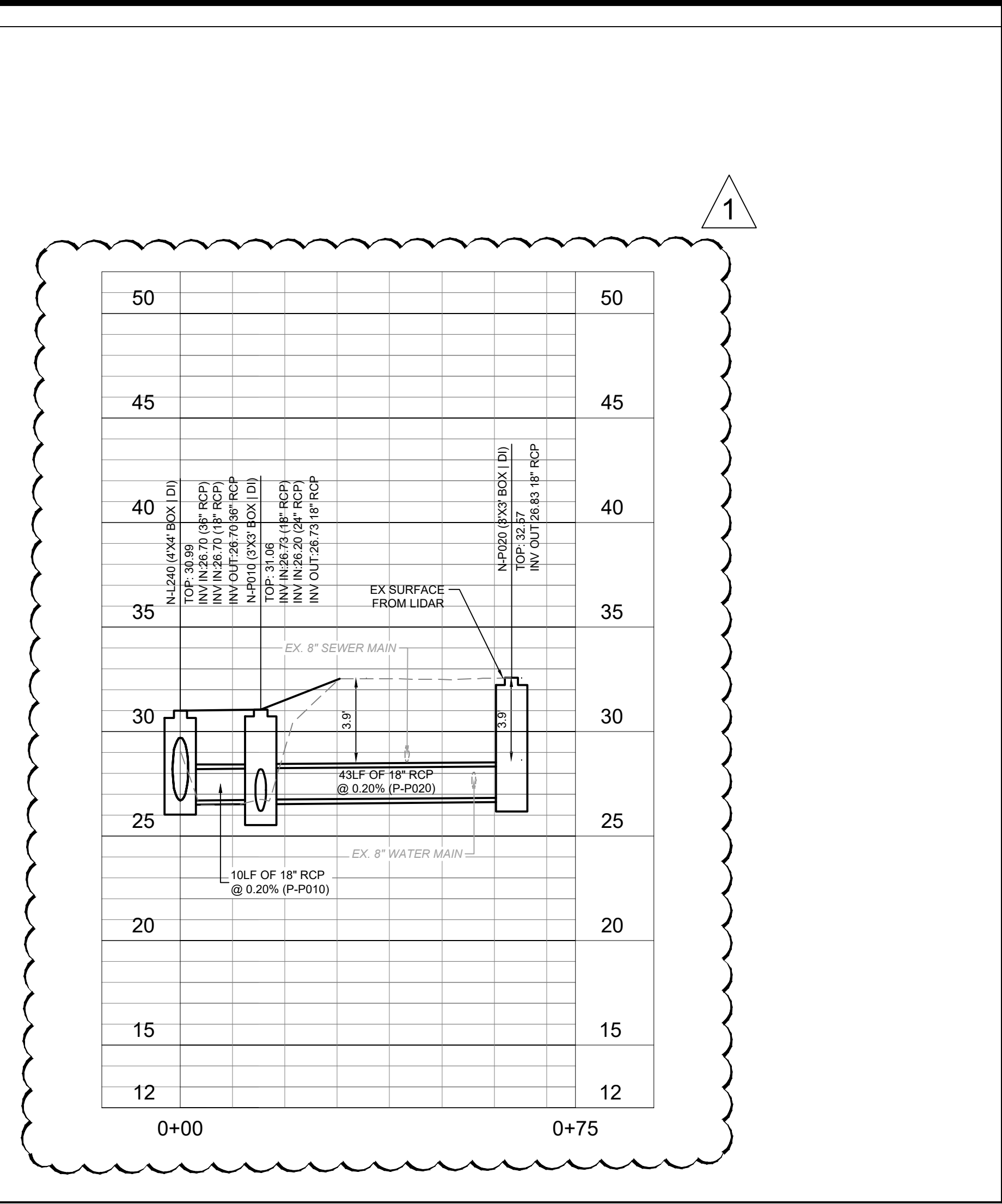
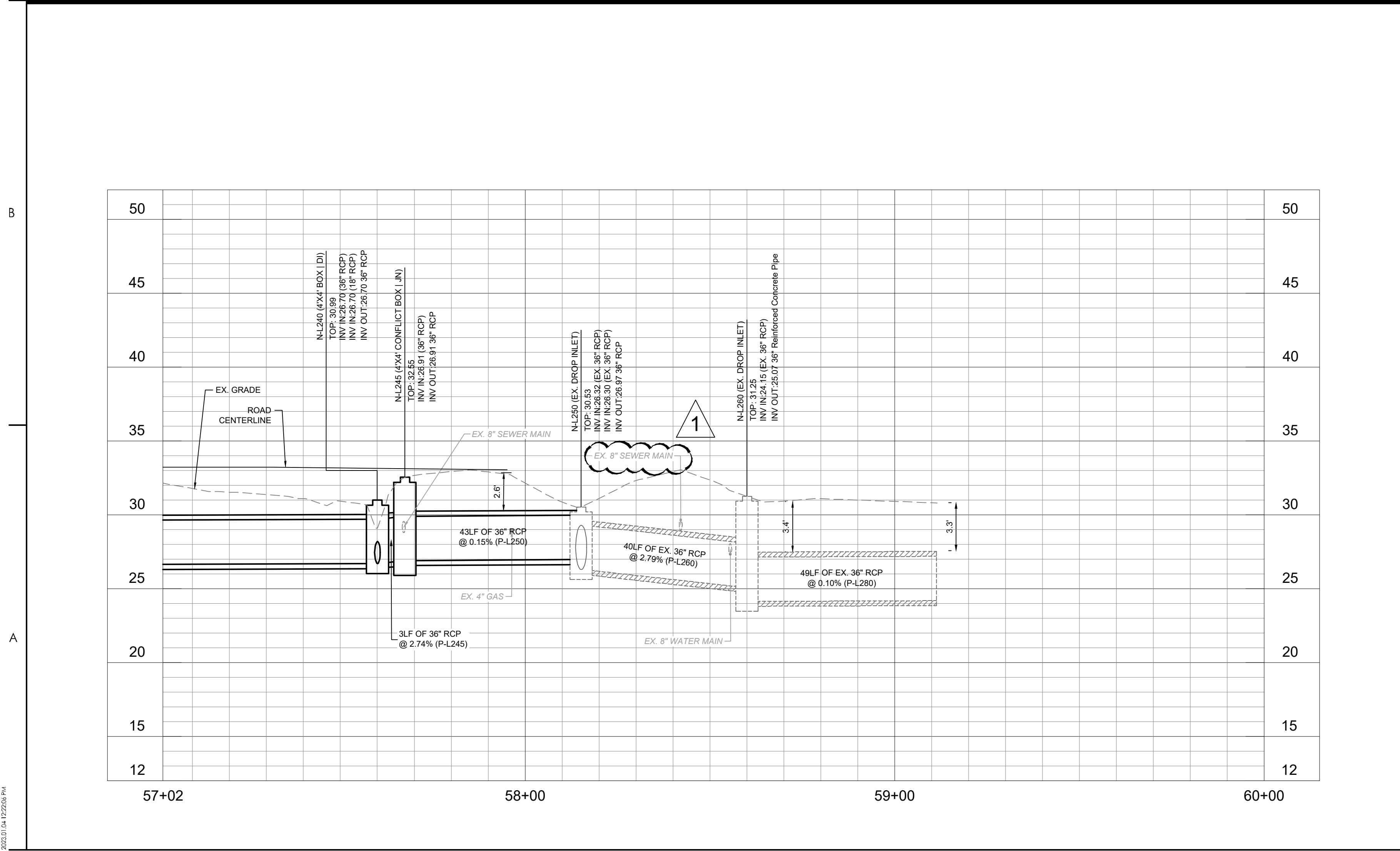
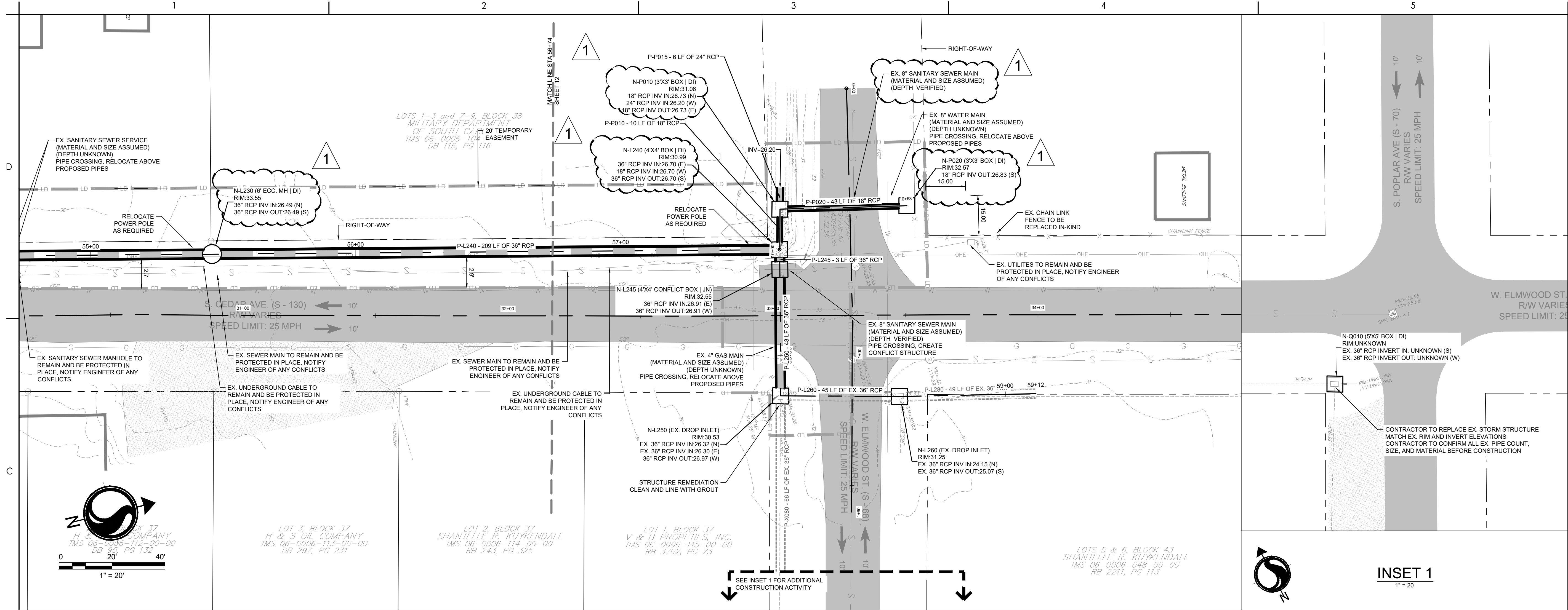
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Legend

- LD LIMITS OF DISTURBANCE
- 15 EXISTING CONTOURS
- 20 PROPOSED CONTOUR
- SF SILT FENCE
- DSF DOUBLE ROW SILT FENCE
- DRAINAGE FLOW ARROW
- RIPRAP
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT
- DI INLET ADAPTOR - 24"X36" DROP INLET PER SCSDOT 719-110-01
- JN INLET ADAPTOR - MANHOLE PER SCSDOT 719-505-03
- T9 INLET ADAPTOR - TYPE 9 PER SCSDOT 719-009-04
- EG EXISTING GRADE
- FG FINISHED GRADE
- EOP EDGE OF PAVEMENT
- SPOT ELEVATION



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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| File Name: 1035_C4_GRADING | SGC | BK | 2020.10.09 |
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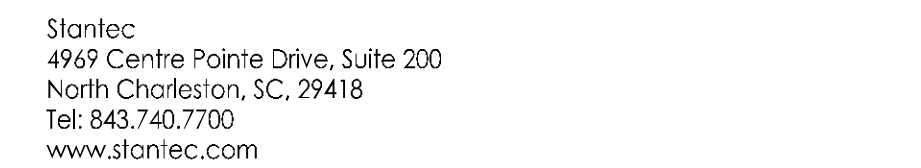
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
DRAINAGE PLAN AND PROFILE

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| Project No. 178421035 | Scale |
| Revision 1 | Sheet C4-13 of 65 |
| Drawing No. C4-13 | |



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|  | LD | LIMITS OF DISTURBANCE |
|  | 15 | EXISTING CONTOURS |
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|  | DSF | DOUBLE ROW SILT FENCE |
|  | | DRAINAGE FLOW ARROW |
|  | | RIPRAP |
|  | | PROPOSED PERMANENT TRENCH |
|  | | PROPOSED TEMPORARY ROAD |
|  | | PROPOSED TEMPORARY ROADWAY |
|  | | PROPOSED PERMANENT ROADWAY |
|  | DI | DI INLET ADAPTOR - 24"x36" SCDOT 719-10-01 |
|  | JN | JN INLET ADAPTOR - MANHOLE |
|  | T9 | T9 INLET ADAPTOR - TYPE 9 |
|  | EG | EG EXISTING GRADE |
|  | FG | FG FINISHED GRADE |
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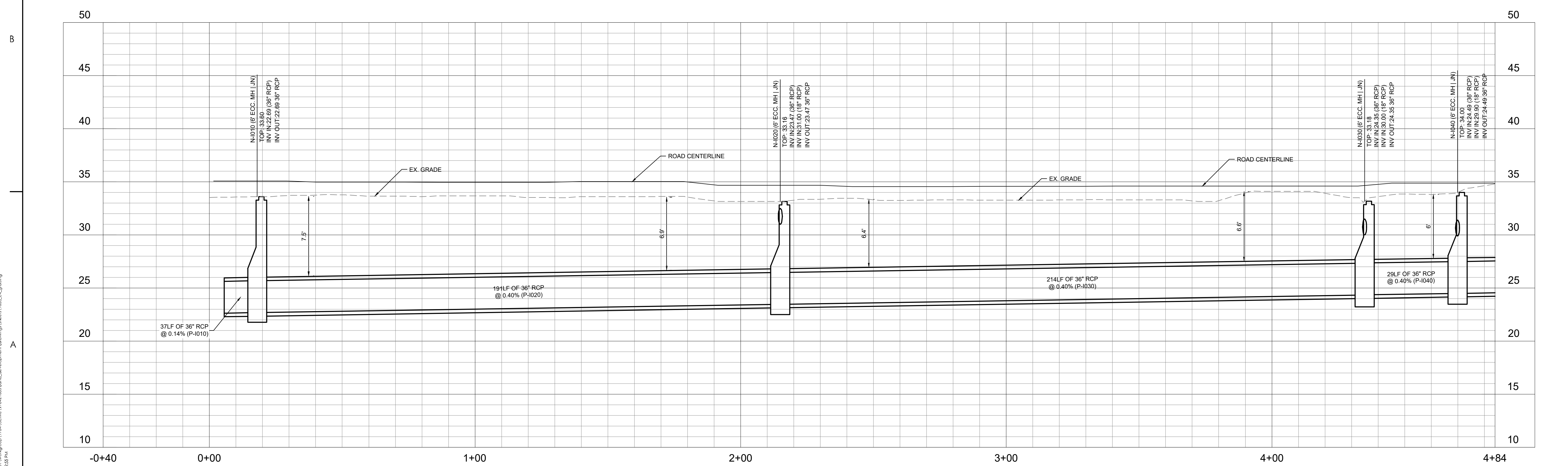
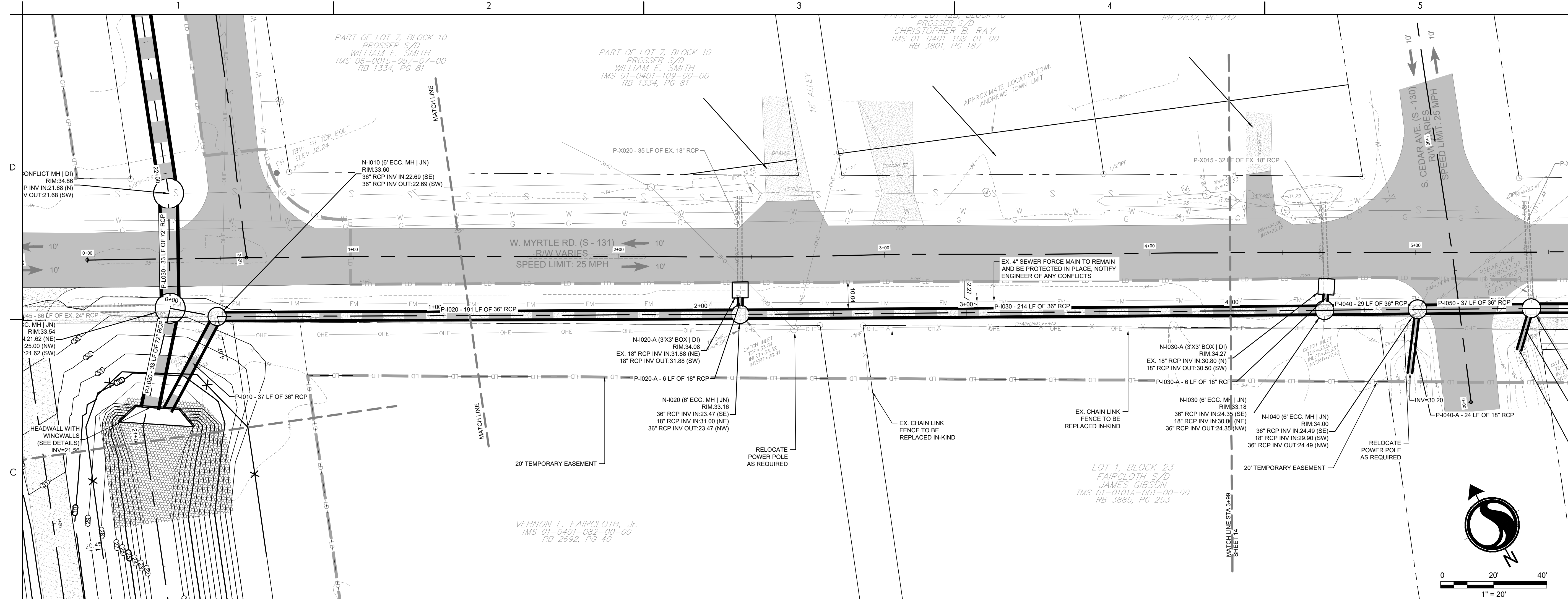
TOWN OF ANDREWS DRAINAGE IMPROVEMENT
PHASE 2

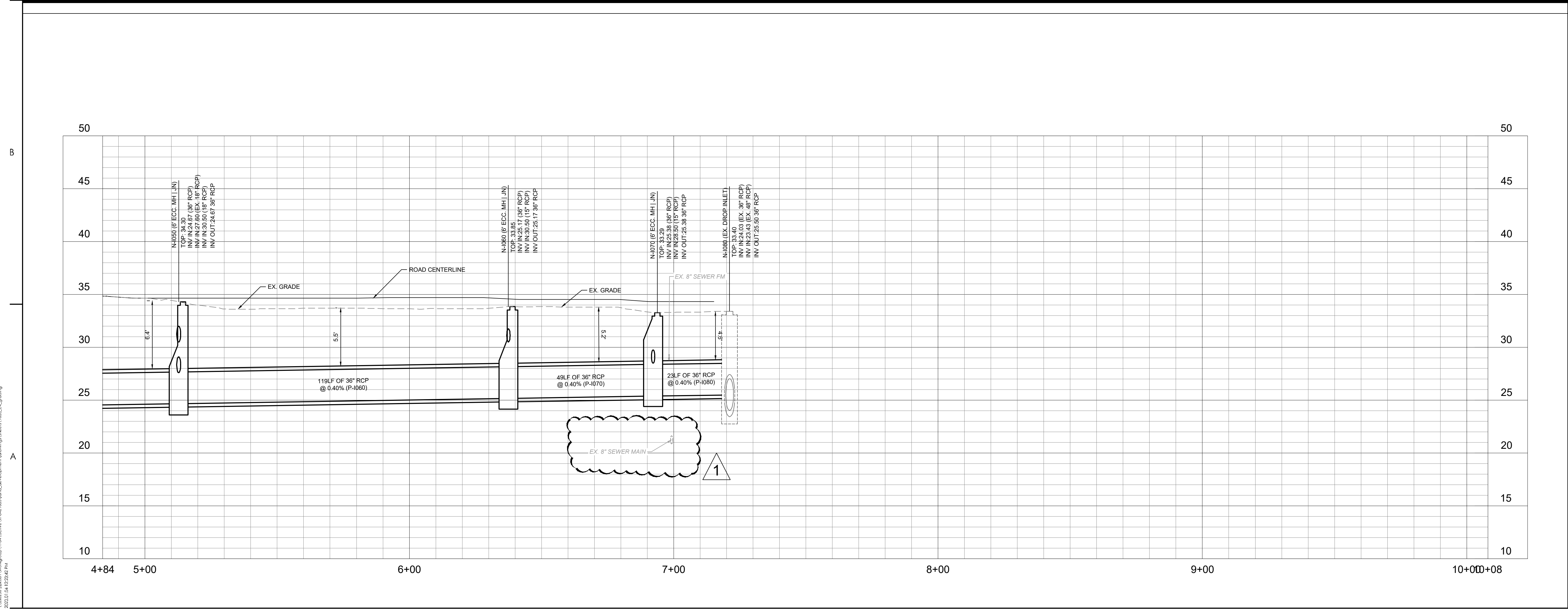
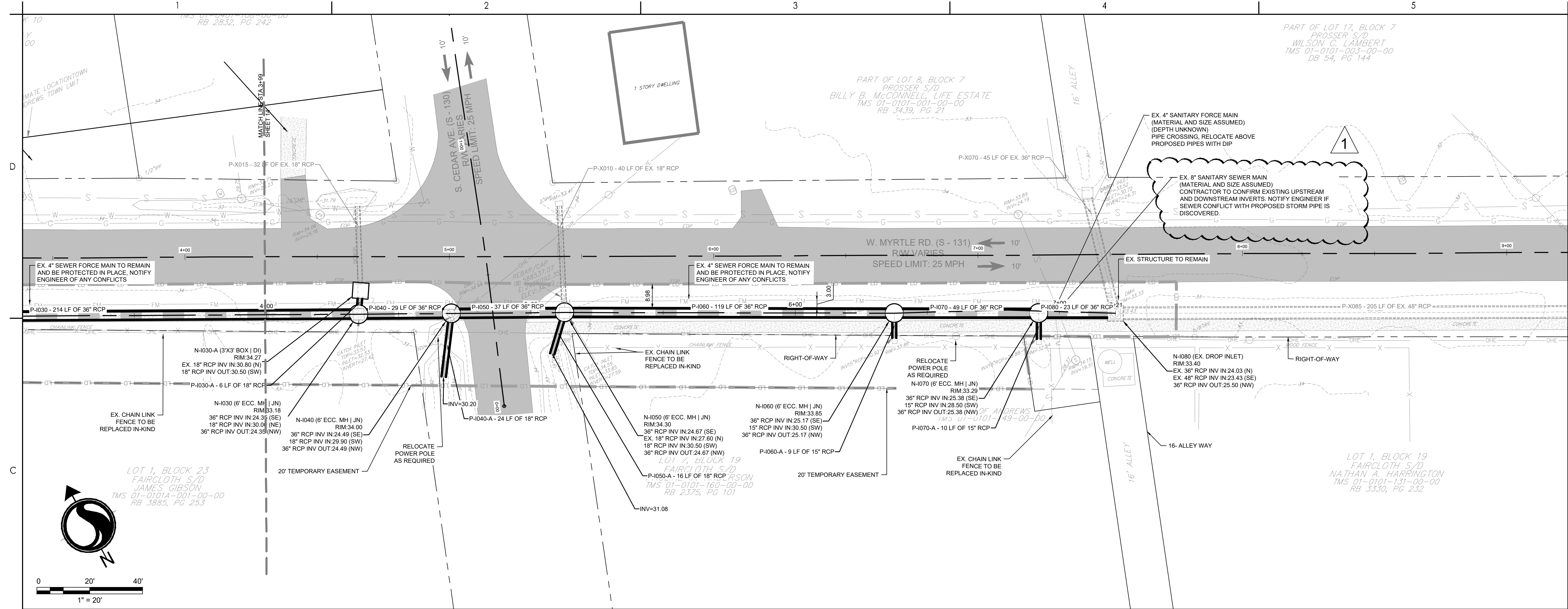
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title

DRAINAGE PLAN AND PROFILE

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|----------|-------------|-------------|
| Revision | Sheet | Drawing No. |
| | C4-14 of 65 | C4-14 |





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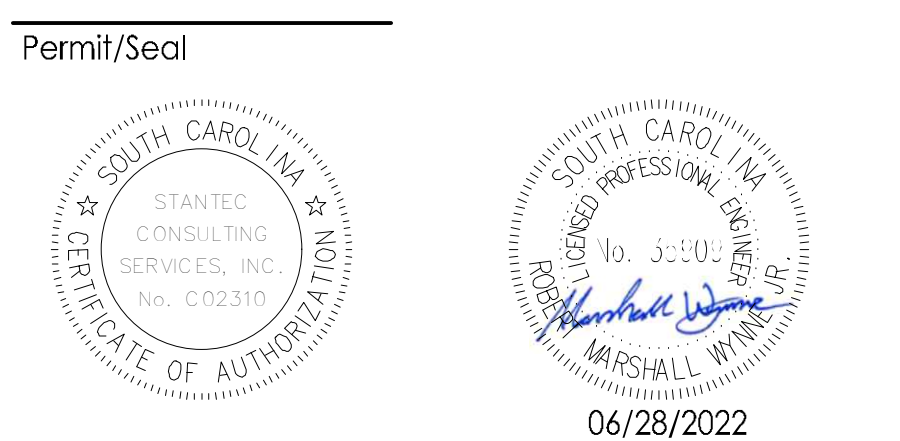
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- Legend
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PHASE 2

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| Project No. 178421035 | Scale |
| Revision 1 | Sheet C4-15 of 65 |
| Drawing No. C4-15 | |



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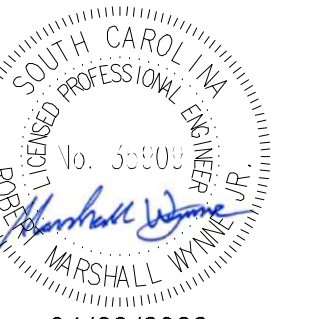
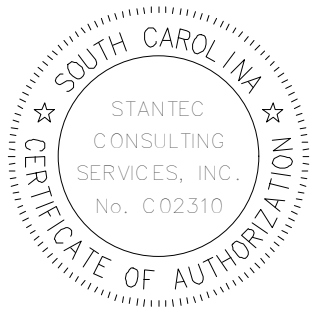
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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

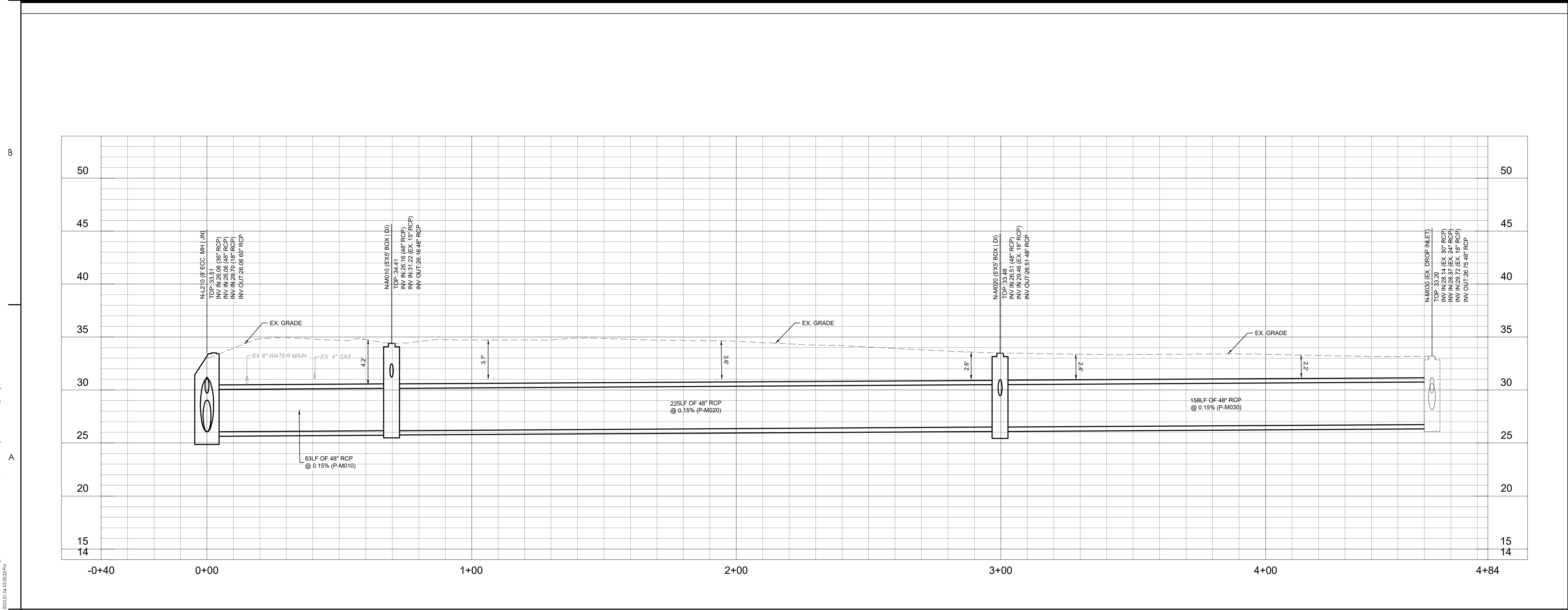
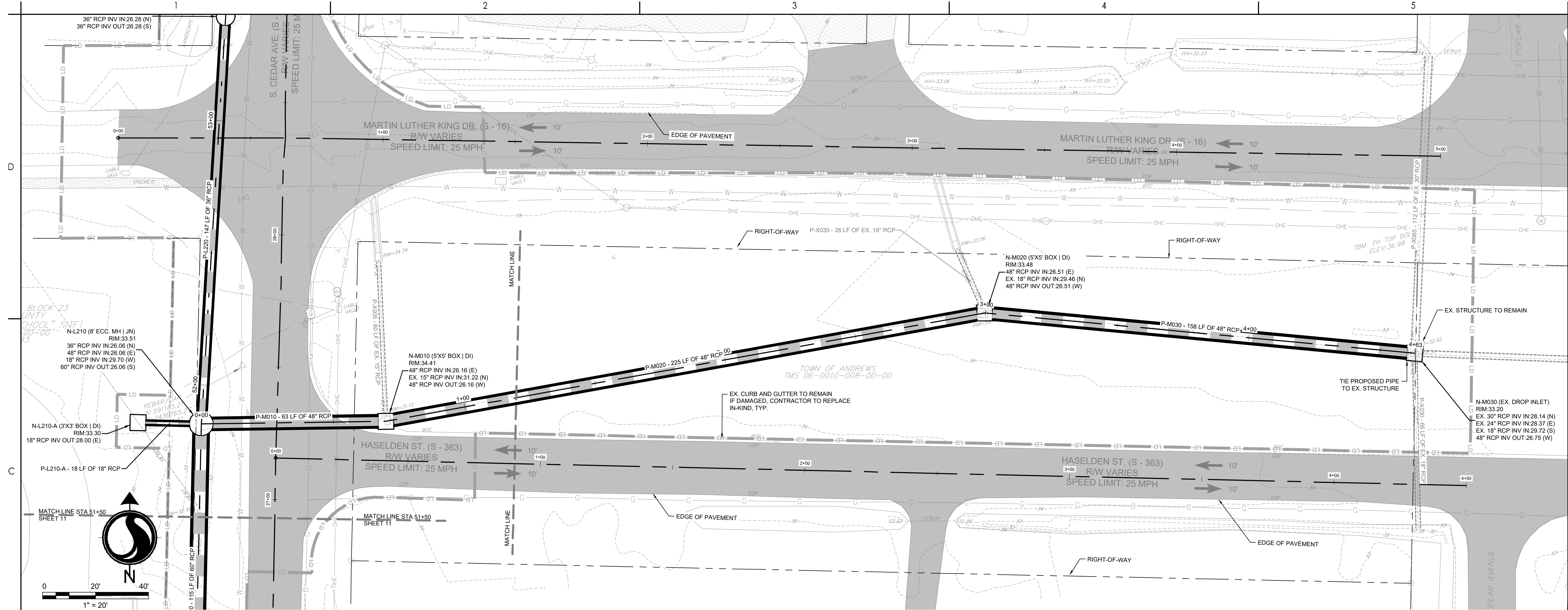
Title
DRAINAGE PLAN AND PROFILE

Project No.
178421035

Scale

Revision Sheet
C4-17 of 65

Drawing No.
C4-17



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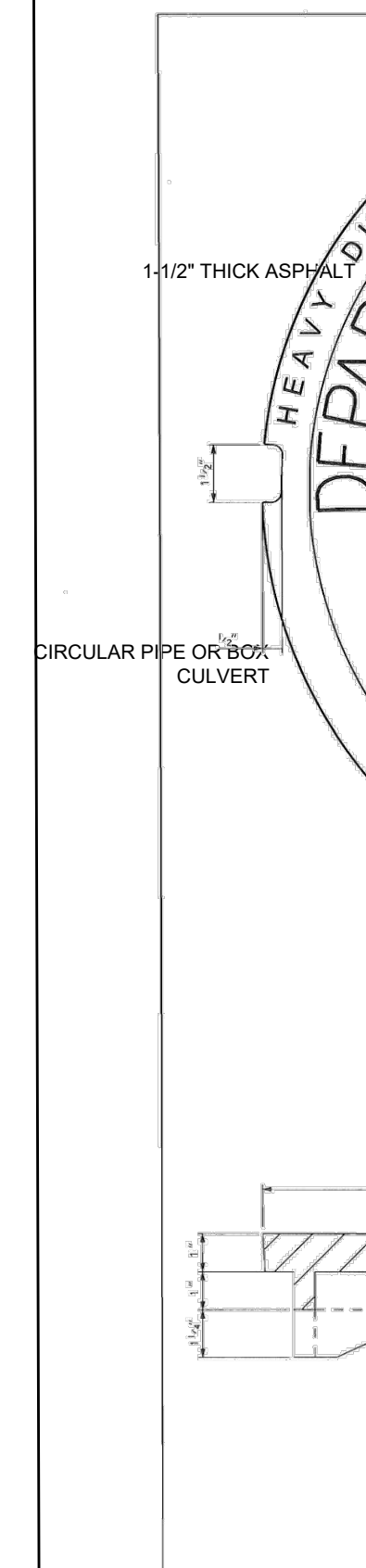
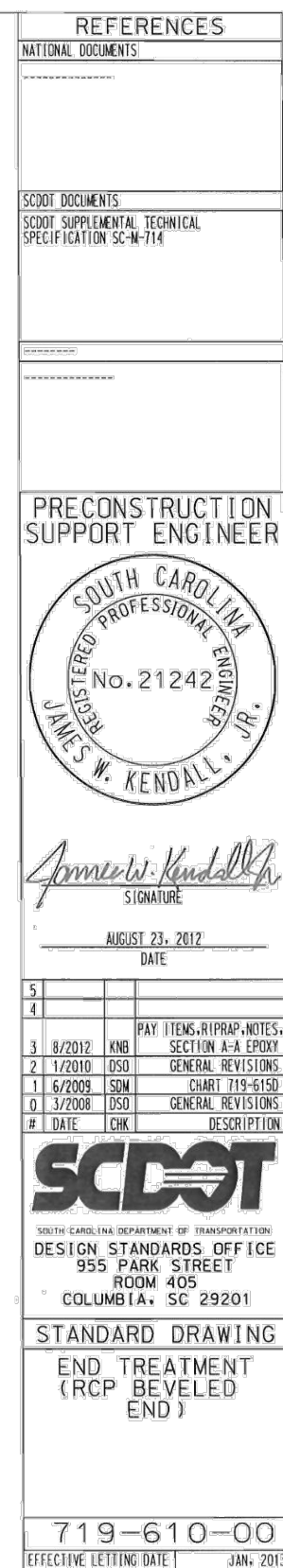
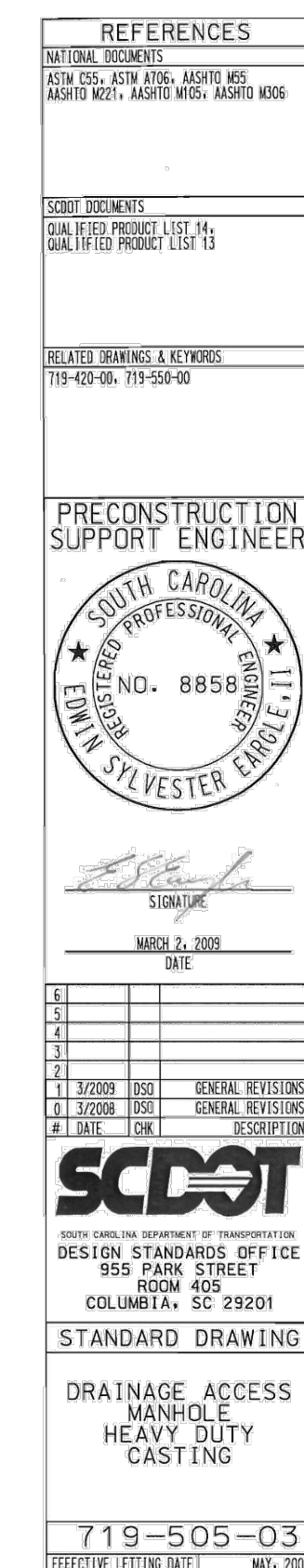
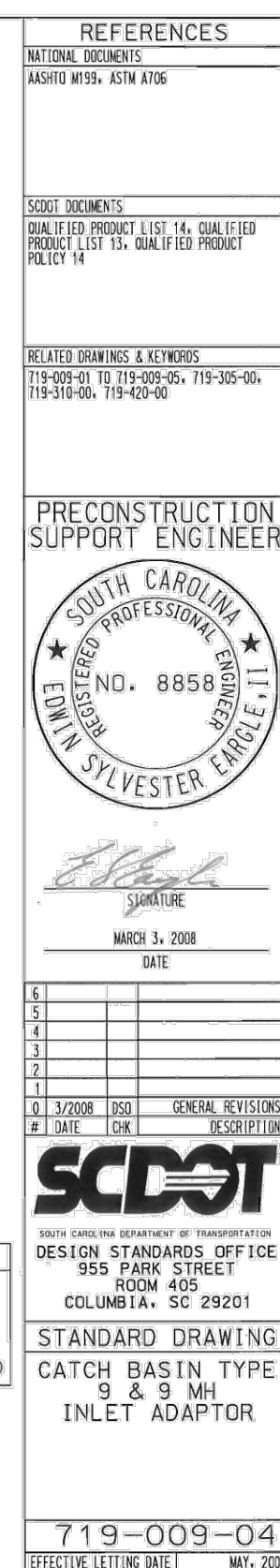
STANDARD TRENCH TERMINOLOGY (COMPLETED RIGID PIPE INSTALLATION)

NOTES:

1. FOR PIPES GREATER THAN 60" RCP, CONTRACTOR TO PROVIDE MINIMUM 6" COURSE #57 GRANITE BEDDING STONE, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER; WHICHEVER IS GREATER.
2. CONTRACTOR TO OVEREXCAVATE BEDDING AT PIPE JOINTS TO ALLOW BELL JOINT TO PROPERLY FIT WITHIN BEDDING MATERIAL.
3. GEOTEXTILE WRAP SHALL BE REQUIRED FOR ALL PIPE, AND OVERLAP A MINIMUM 18 INCHES AT ALL SPLICES

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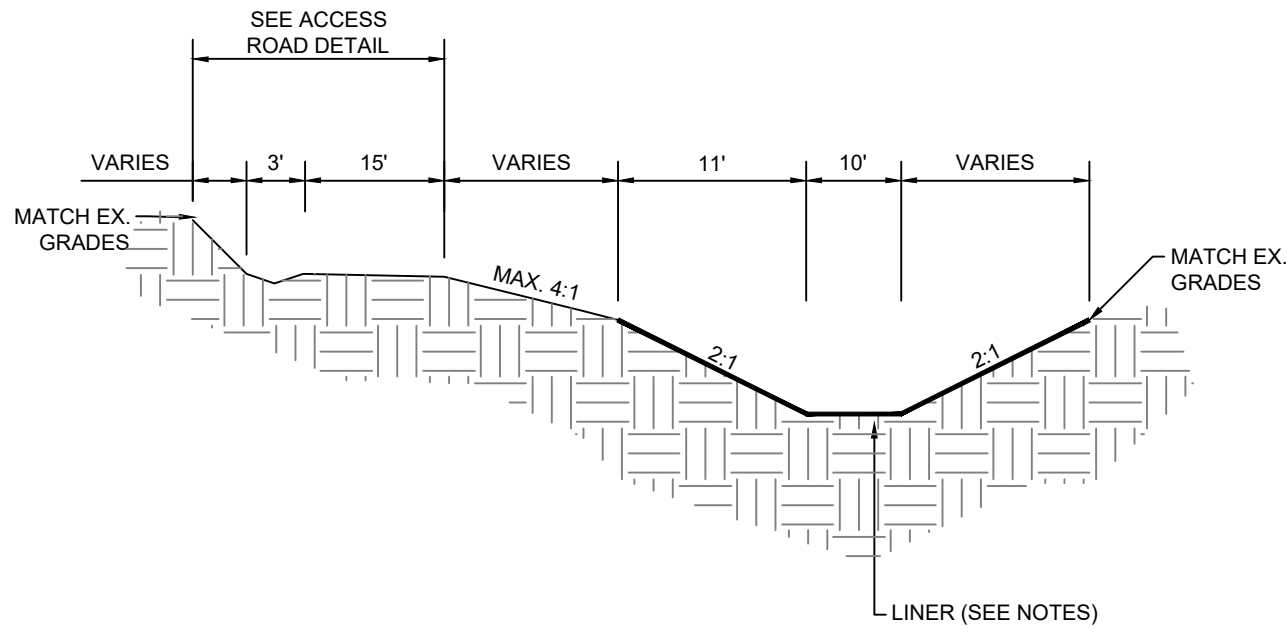
C5-00 of 65 C5-00



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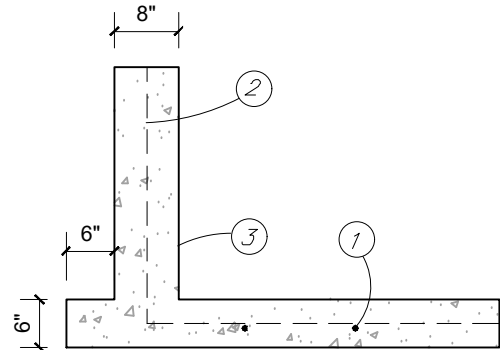
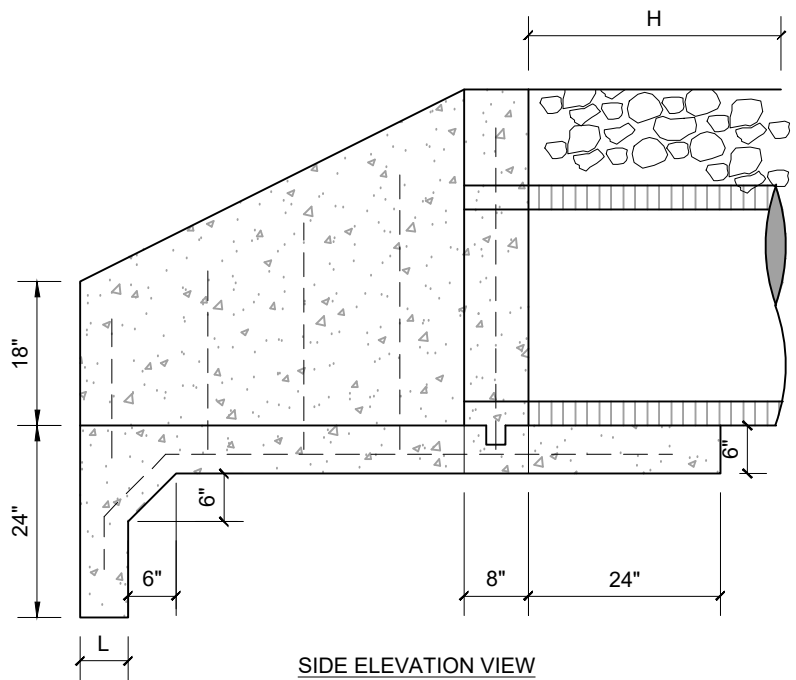


NOTE:
1. NORTH AMERICAN GREEN SC150 LINER SHALL BE INSTALLED IN ALL DITCH AND SWALE SECTIONS.

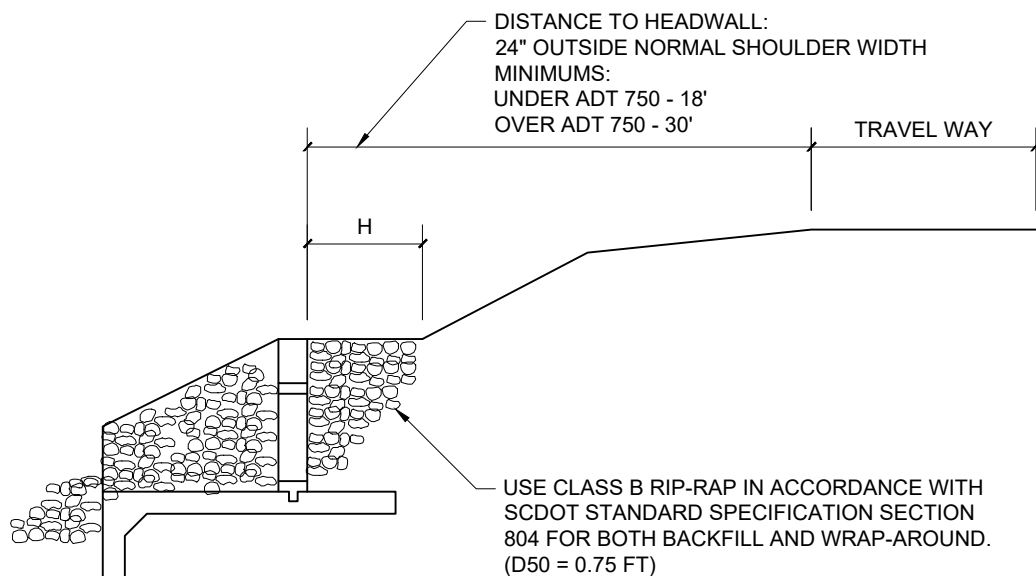
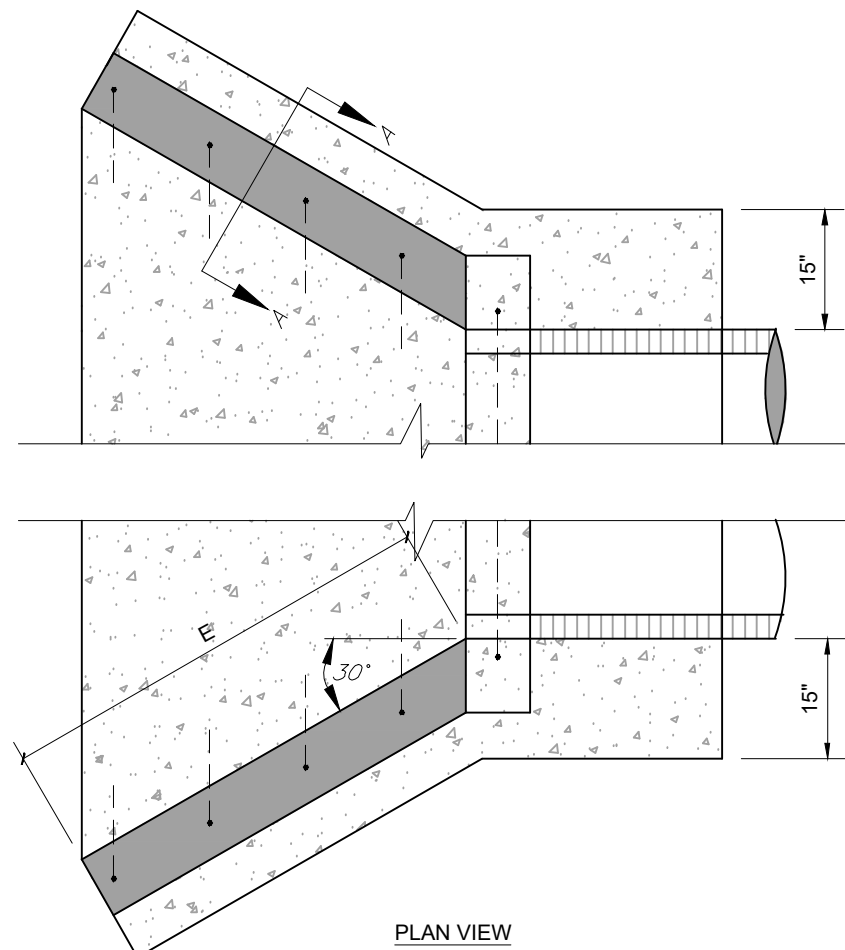
TRAPEZOIDAL DITCH DETAIL

NOT TO SCALE

C



- #4 REBARS 12" O.C. E.W. APRON SLAB & FOOTING
- #4 REBARS 12" O.C. WITH 18" LEG INTO APRON
- WING WALL (3000 PSI CONCRETE)
- HEADWALL (3000 PSI CONCRETE)



- NOTES:
- CONTRACTOR SHALL DESIGN AND CONSTRUCT A CONCRETE HEADWALL WITH WINGWALLS. DETAILS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF SOUTH CAROLINA AND SHALL BE SUBMITTED TO THE ENGINEER AND OWNER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
 - FOR BUILT IN PLACE CONSTRUCTION OF THE STRAIGHT CONCRETE HEADWALL CLASS 4000 CONCRETE SHALL BE USED. FOR PRECAST CONSTRUCTION, A MINIMUM OF CLASS 4000P CONCRETE MEETING THE REQUIREMENTS OF SECTION 701 OF THE SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60.
 - GROUT SHALL BE TYPE M MORTAR MATERIAL IN ACCORDANCE WITH SECTION 718 OF THE SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).
 - IN THE EVENT THE HEADWALL IS SKEWED TO THE PIPE, THE PORTION OF PIPE THAT PROTRUDES BEYOND THE EXPOSED FACE OF THE HEADWALL SHALL BE CUT FLUSH AND GROUTED SMOOTH WITH THE EXPOSED FACE OF THE HEADWALL.
 - FOR THREE OR MORE LINES OF PIPE THE WIDTH (M) SHALL BE INCREASED BY THE 'HD' AND 'C' DIMENSIONS AND THE REINFORCING STEEL SHALL INCREASE ACCORDINGLY.
 - WHEN PIPES OF DIFFERENT DIAMETERS ARE USED DESIGN SHOULD COMPLY WITH DESIGN OF LARGEST PIPE.

- PRECAST NOTES:
- THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS.
 - LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.

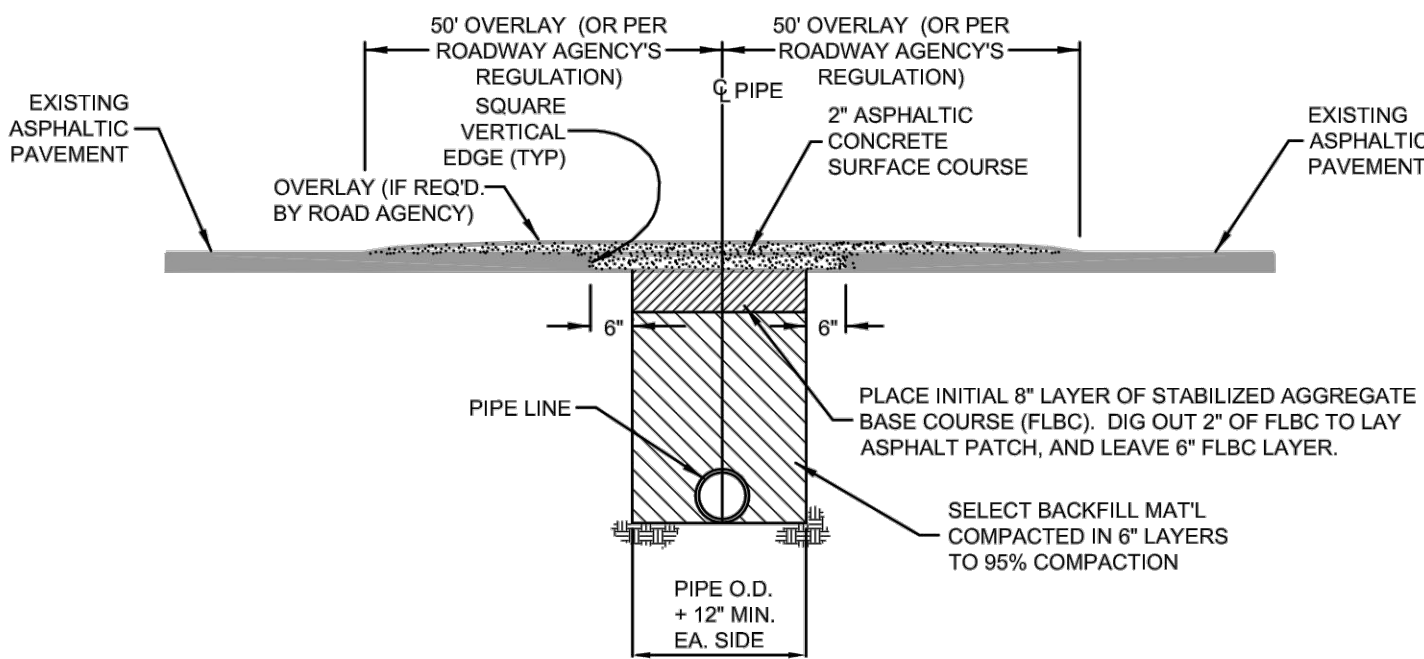
- PRECAST INSTALLATION NOTES:
- BED SHALL BE PREPARED AND COMPACTED FOR STRAIGHT CONCRETE HEADWALL AS REQUIRED BY SCOOT STANDARD SPECIFICATIONS FOR PRECAST ITEMS. ELEVATION OF BEDDING MATERIAL SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATION OF PIPE.
 - PLACE AND LEVEL PRECAST HEADWALL.
 - PIPES SHALL BE BRICKED AND GROUTED IN PLACE.
 - PIPES AND HEADWALL SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCOOT STANDARD SPECIFICATIONS. 15. BRICK AND MORTAR SHALL BE USED TO ADJUST ELEVATIONS OF THROAT WALLS AS REQUIRED TO MEET ELEVATION AND CROSS SLOPES.
 - ANY LOCATION WHERE THE ABOVE REQUIREMENTS CANNOT BE MET SHALL BE COMPLETED USING CAST IN PLACE MATERIALS MEETING THE REQUIREMENTS OF THIS STANDARD DRAWING. ANY ADDITIONAL MATERIALS OR COSTS ASSOCIATED WITH THE USE OF PRECAST SHALL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCOOT.
 - THE CONTRACT UNIT PRICE FOR STRAIGHT HEADWALL FOR CIRCULAR PIPE SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS (BUILT IN PLACE OR PRECAST) AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN (INCLUDING CLASS B RIP-RAP) IN ACCORDANCE WITH THE SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

HEADWALL WITH WINGWALLS DETAIL

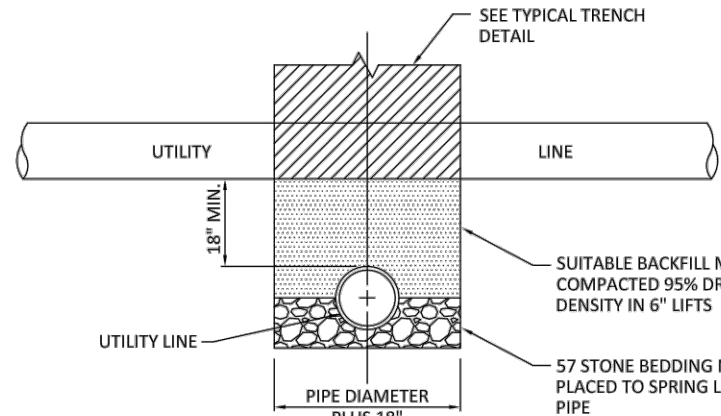
N.T.S.

- (M) SHOWN IS FOR 2 PIPES OF THE SAME DIAMETER. ADJUST (M) AS REQUIRED FOR MULTIPLE PIPES OR PIPES OF VARIOUS DIAMETER.
- ADD REBAR FOR EACH ADDITIONAL PIPE

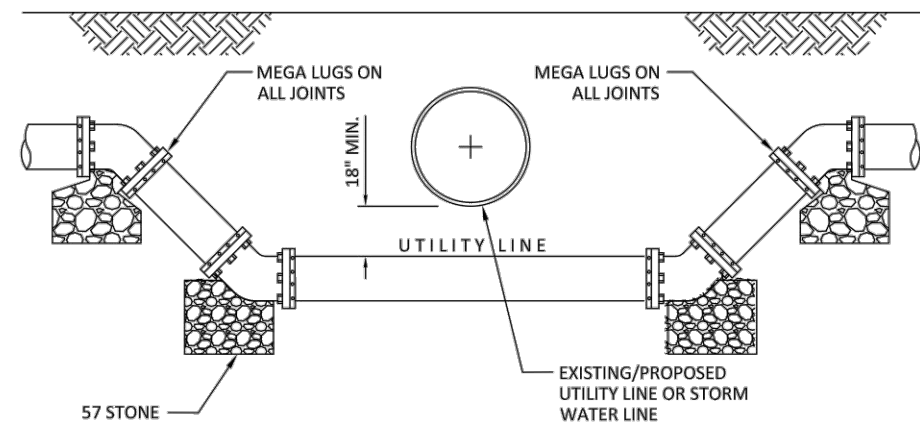
OPEN CUT REPAIR FOR LOW VOLUME ASPHALT PAVEMENT



- NOTES:
- PAVEMENT CUT TO EXTEND 6" BEYOND EDGES OF TRENCH AS SHOWN. PAVEMENT SHALL BE CUT TO TRUE LINE AND REMOVED BEFORE TRENCH IS CUT. ALL PAVEMENT REPAIRS TO BE IN ACCORDANCE WITH ROAD AGENCY SPECS.
 - ROAD AGENCY MAY REQUIRE A CUT & PATCH OF TRENCH AREA AND AN OVERLAY OF ENTIRE APRON OR ENTRANCE FROM THE EDGE OF THE MAIN ROAD TO THE EDGE OF THE ROAD RIGHT-OF-WAY (SEE ENCROACHMENT PERMIT).
 - WHERE EXISTING PAVEMENT IS INSUFFICIENT THICKNESS TO DEVELOP TIGHT SEAL WITH NEW SURFACE, NEW PAVEMENT SHALL LAP EXISTING SURFACE WITH AT LEAST A 10' OVERLAP ON BOTH SIDES FOR SMOOTH TRANSITION OR AS PER SPECS. OF ROAD AGENCY.



- NOTES:
- UTILITY LINES IN THIS DRAWING CONSIST OF WATER, WASTEWATER, AND STORMWATER LINES.
 - WATER LINE AND WASTEWATER UTILITY LINE SHALL BE PVC UNLESS VERTICAL SEPARATION DISTANCE BETWEEN LINES ARE LESS THAN 18", THEN USE DIP.
 - ALL UTILITY LINES SHALL BE CENTERED TO ALLOW FOR THE GREATEST DISTANCE BETWEEN PIPE JOINTS.
 - MATERIAL BETWEEN LINES SHALL BE COMPACTED TO PREVENT SETTLING OF ABOVE PIPING.



- NOTES:
- USE DIP FOR WATER VERTICAL SEPARATION.
 - IF CROSSING A STORM PIPE, PROPOSED UTILITY LINE SHALL ALSO BE OFFSET A MINIMUM OF 36" HORIZONTALLY FROM END OF STORM PIPE.
 - WHEN POSSIBLE, POTABLE WATER LINE SHALL CROSS ABOVE SANITARY SEWER LINE.
2. BETWEEN WATER N 18". IF SEPARATION HEN USE D.I.P. UTILITY LINE SHALL HORIZONTAL FROM HORIZONTAL FROM SHALL CROSS ABOVE

GEORGETOWN COUNTY
WATER & SEWER DISTRICT

UTILITY LINE CROSSING
NO. 1

UPDATED 10/02/14
DRAWN A.J.K.

SCALE N.T.S.
CHECKED

NO.

GEORGETOWN COUNTY
WATER & SEWER DISTRICT

UTILITY LINE CROSSING
NO. 2

UPDATED 10/02/14
DRAWN A.J.K.

SCALE N.T.S.
CHECKED

NO. 12 - W



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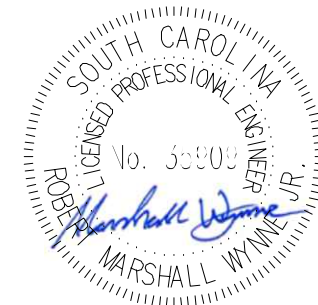
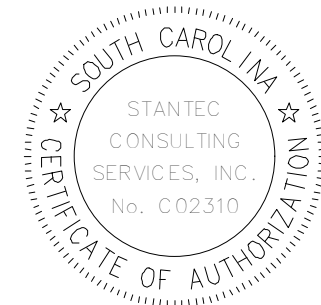
Legend

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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

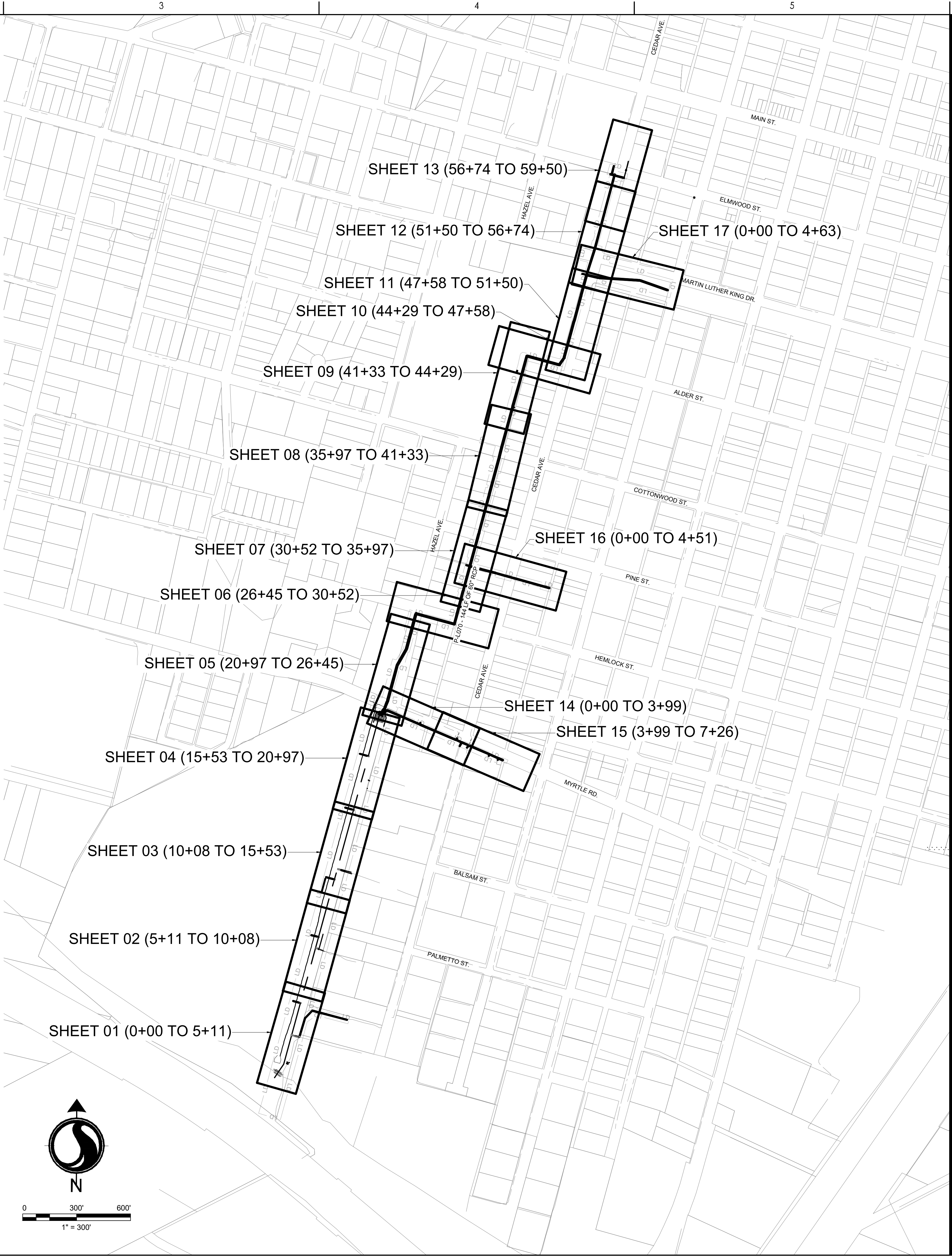
Title
DRAINAGE DETAILS

Project No.
178421035

Scale

Revision Sheet
C5-03 of 65

Drawing No.
C5-03



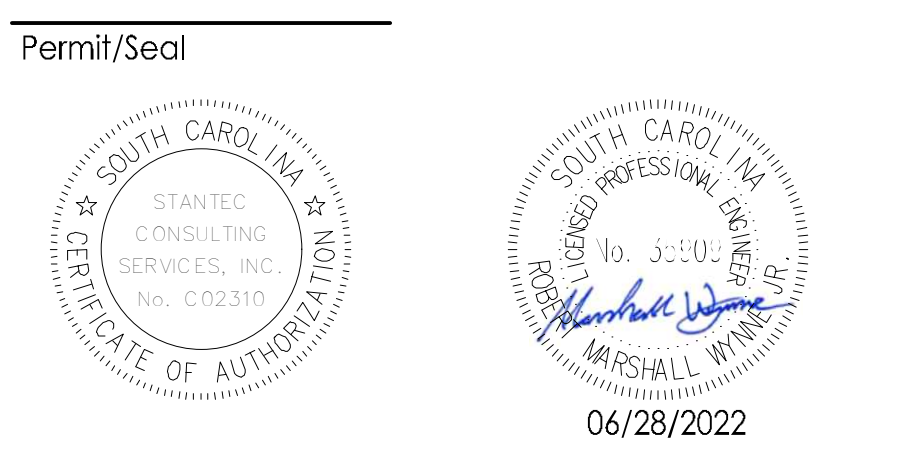
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Legend

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| PER BID ADDENDUM #2 | RMW | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | RMW | BK | 2022.12.21 |
| Revision | By | Appd | YYYY.MM.DD |
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| ISSUED FOR CONSTRUCTION | RMW | BK | 2022.06.28 |
| Issued | By | Appd | YYYY.MM.DD |
| File Name: 1035_C6_ROAD_INDEX | SGC | SGC | BK |
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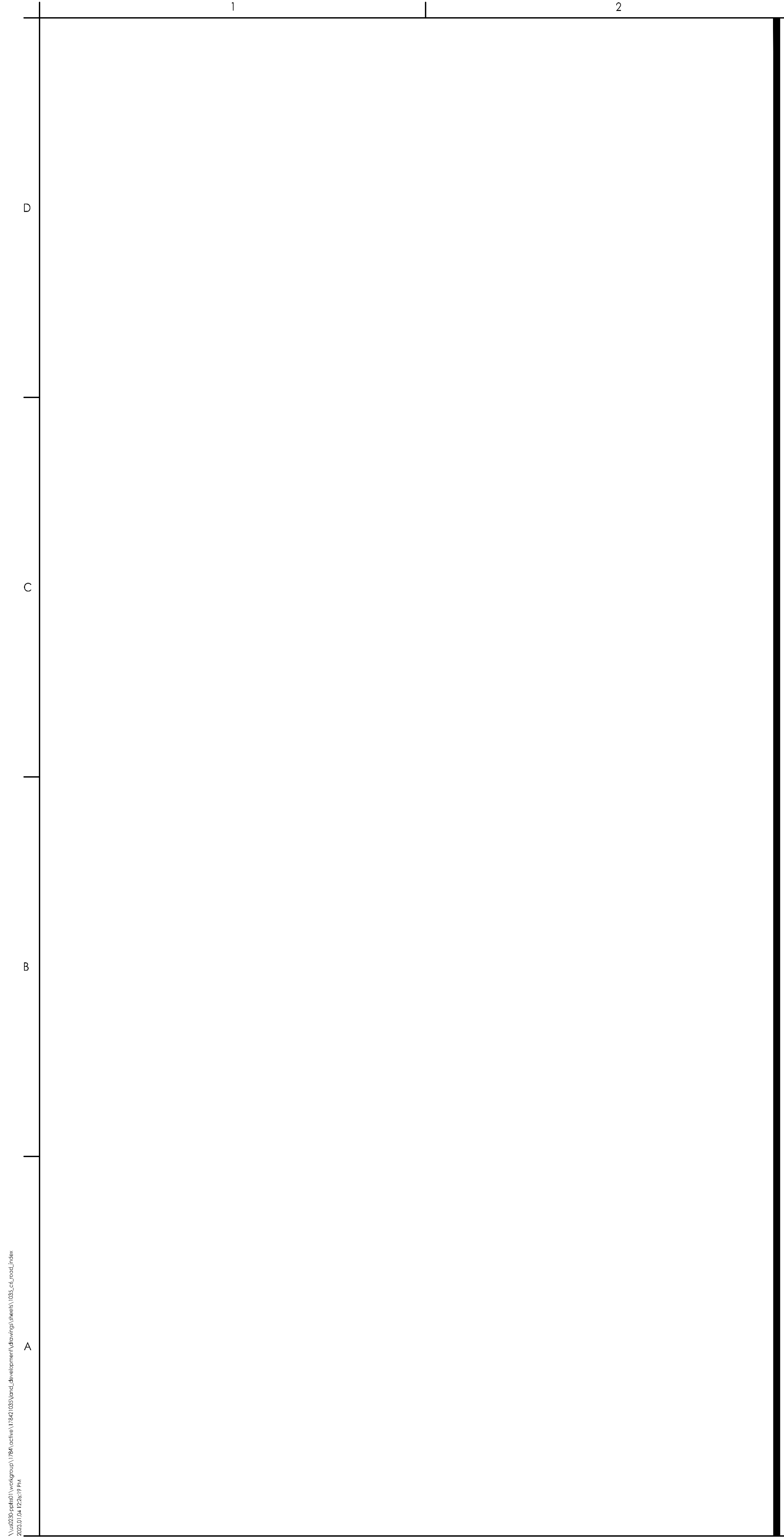
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY OVERALL INDEX

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision --- | Sheet C6-00 of 65 |
| Drawing No. C6-00 | |



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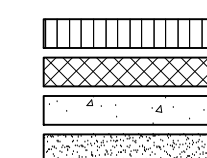
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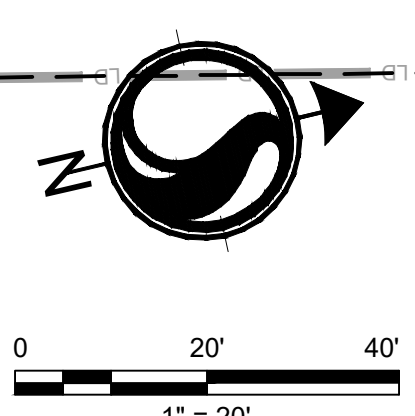


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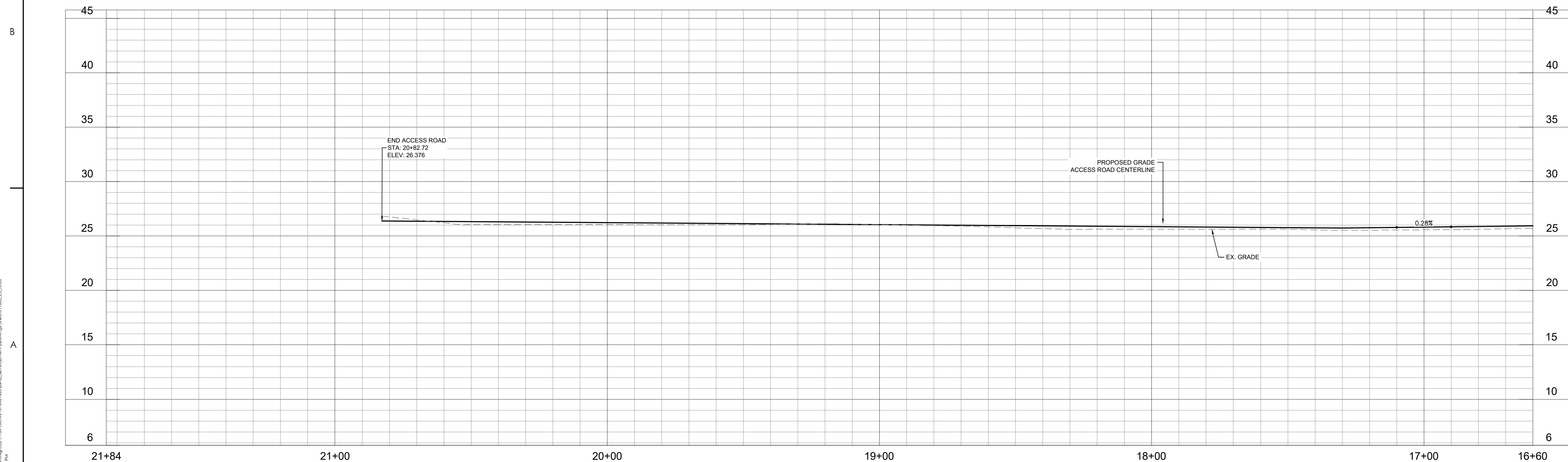
Legend



 PROPOSED MILL AND OVERLAY
 PROPOSED FULL DEPTH REPLACEMENT
 PROPOSED CONCRETE
 PROPOSED GRAVEL



Start Sta: 16+60.00
End Sta: 21+84.00
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 5'
Vertical Exaggeration: 4:1

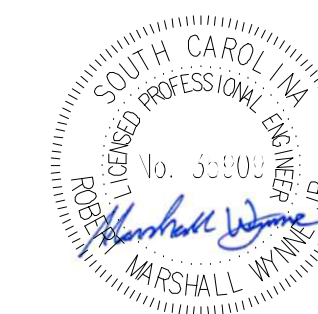
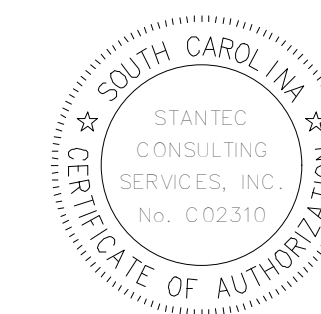


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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

| | | |
|--------------------------|----------------------|----------------------|
| Project No. 178421035 | | Scale |
| Revision | Sheet C6-01 of 65 | Drawing No. C6-01 |



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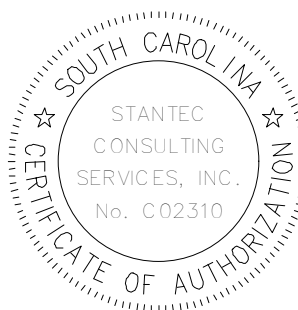
Legend

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- PROPOSED CONCRETE
- PROPOSED GRAVEL

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
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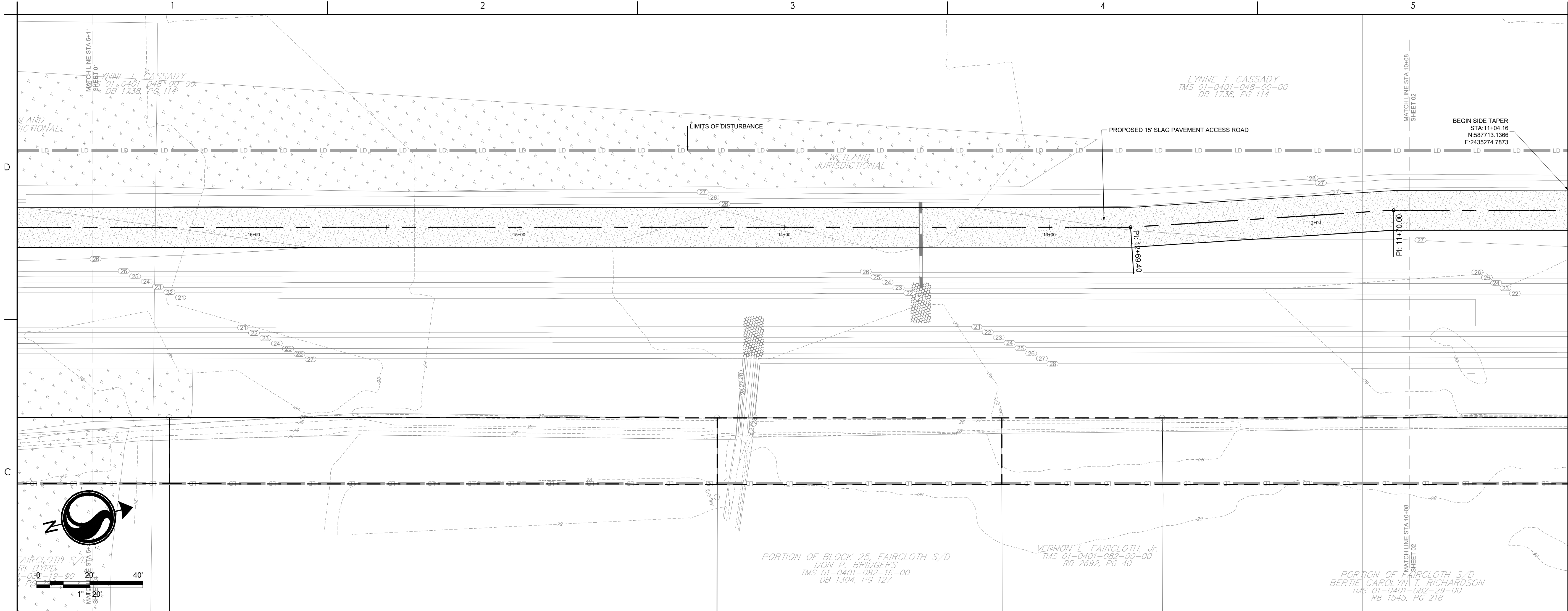
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

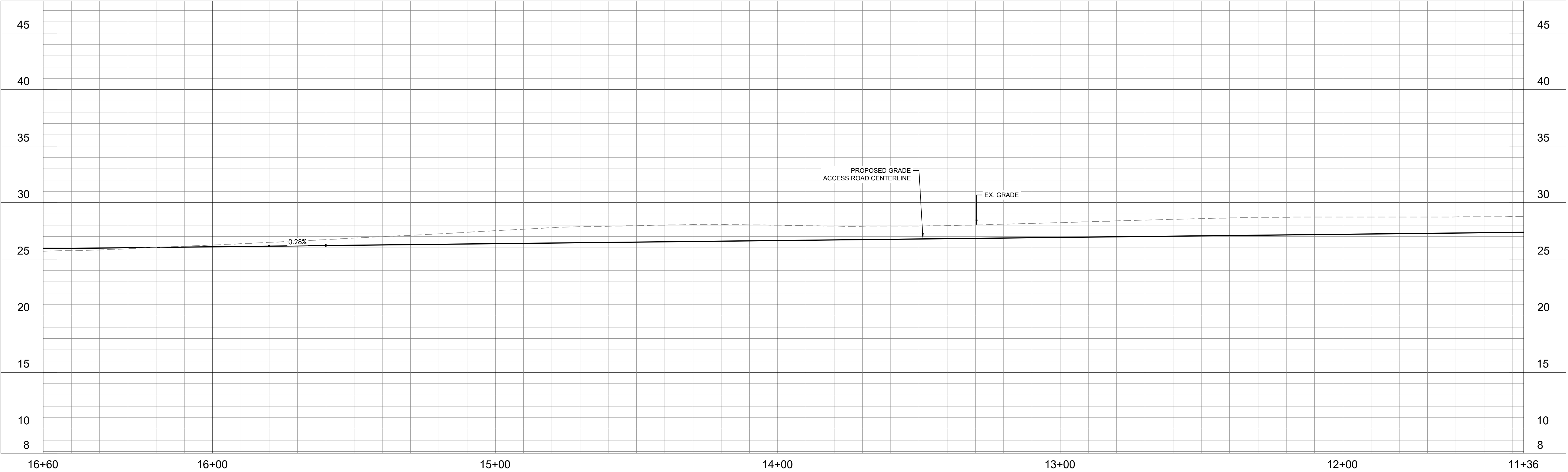
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

| | |
|--------------------------|----------------------|
| Project No. 178421035 | Scale |
| Revision C6-02 of 65 | Drawing No. C6-02 |



Start Sta: 11+36.00
End Sta: 16+60.00
Horizontal Scale: 1" = 20
Vertical Scale: 1" = 5'
Vertical Exaggeration: 4:1



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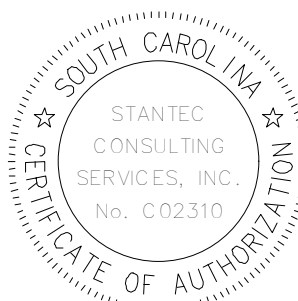
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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
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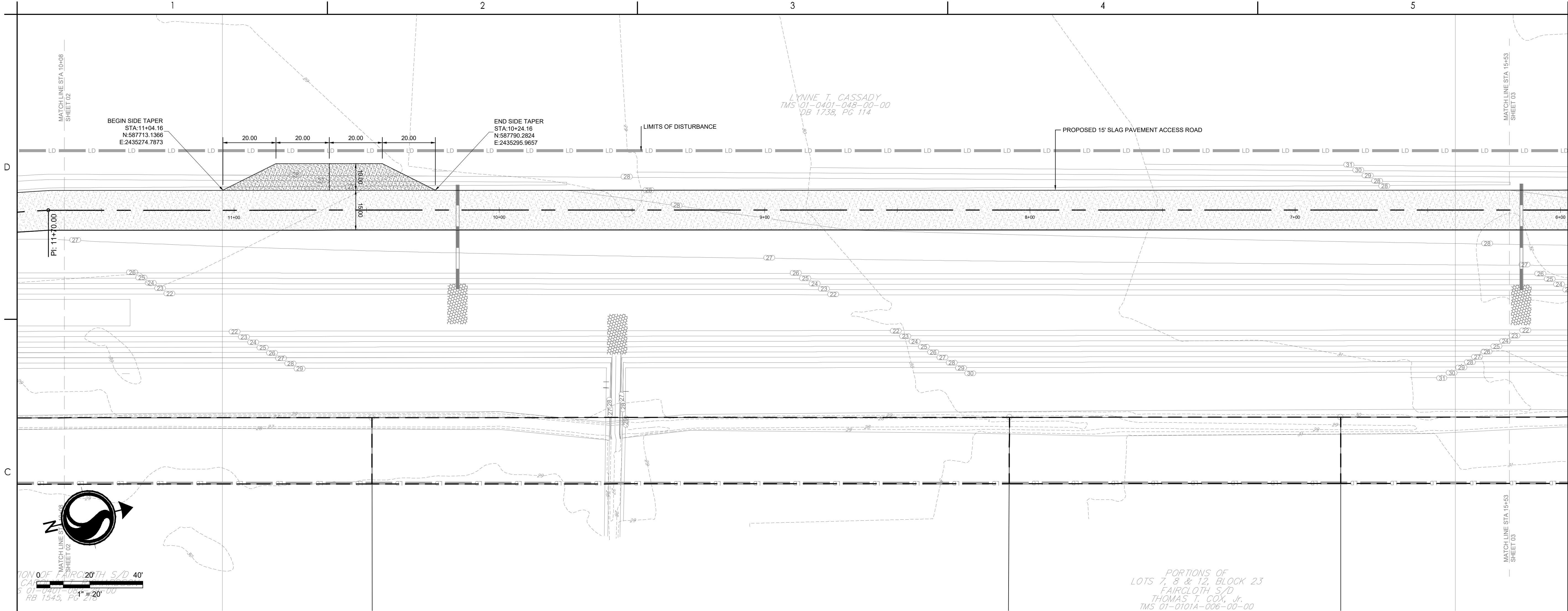
Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

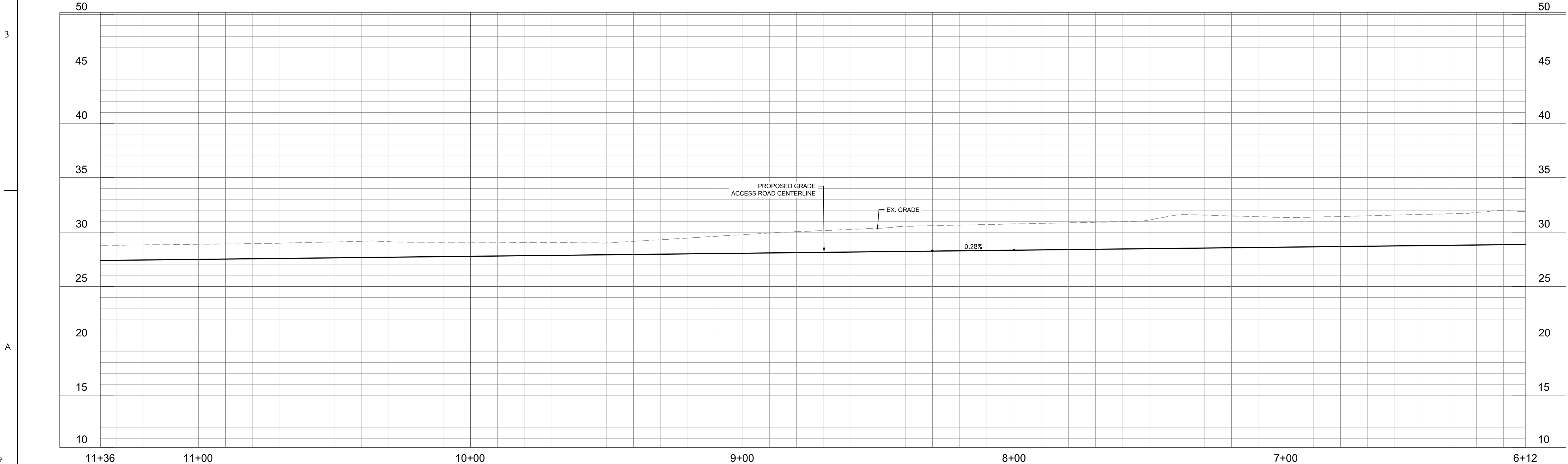
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
| Revision C6-03 of 65 | Drawing No. C6-03 |



Start Sta: 6+12.00
End Sta: 11+36.00
Horizontal Scale: 1" = 20
Vertical Scale: 1" = 5'
Vertical Exaggeration: 4:1



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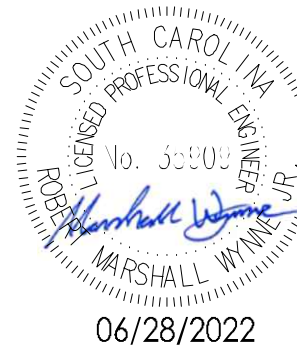
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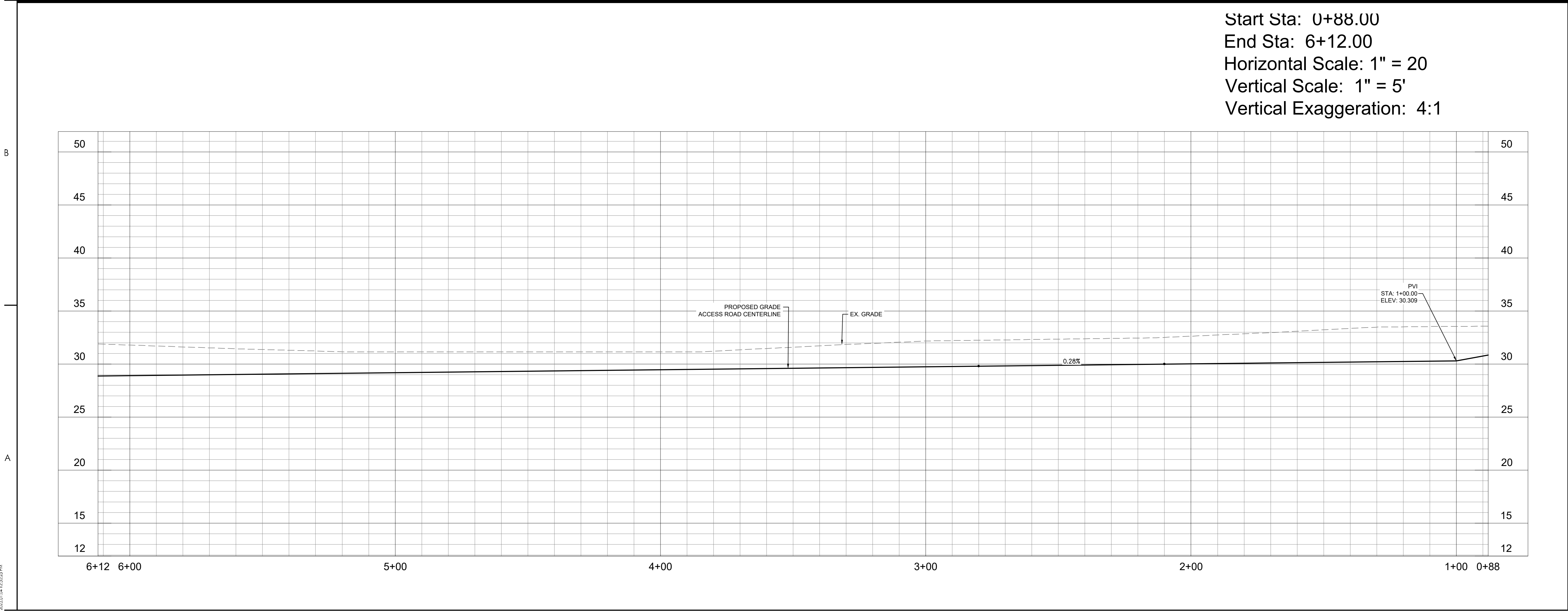
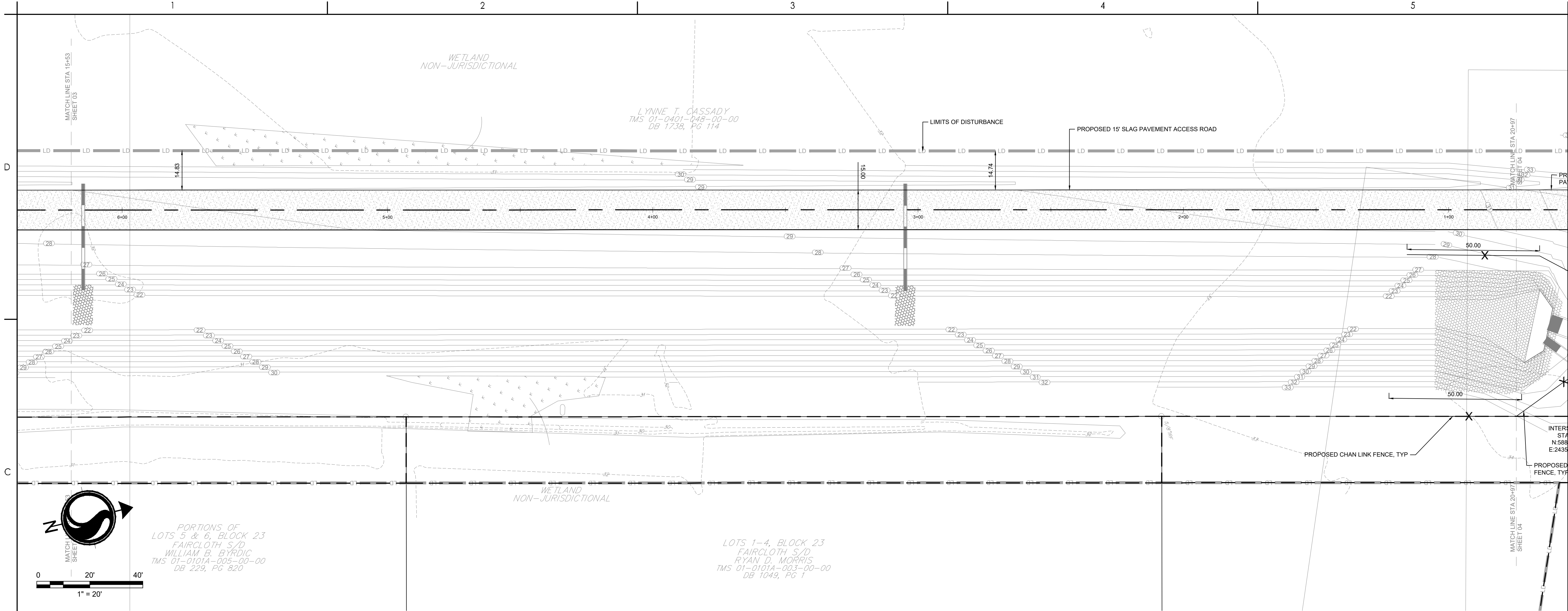
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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
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| Revision --- | Sheet C6-04 of 65 | Drawing No. C6-04 |
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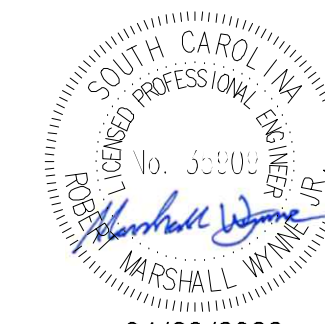
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| Revision | By | Aspd | YYYY.MM.DD |

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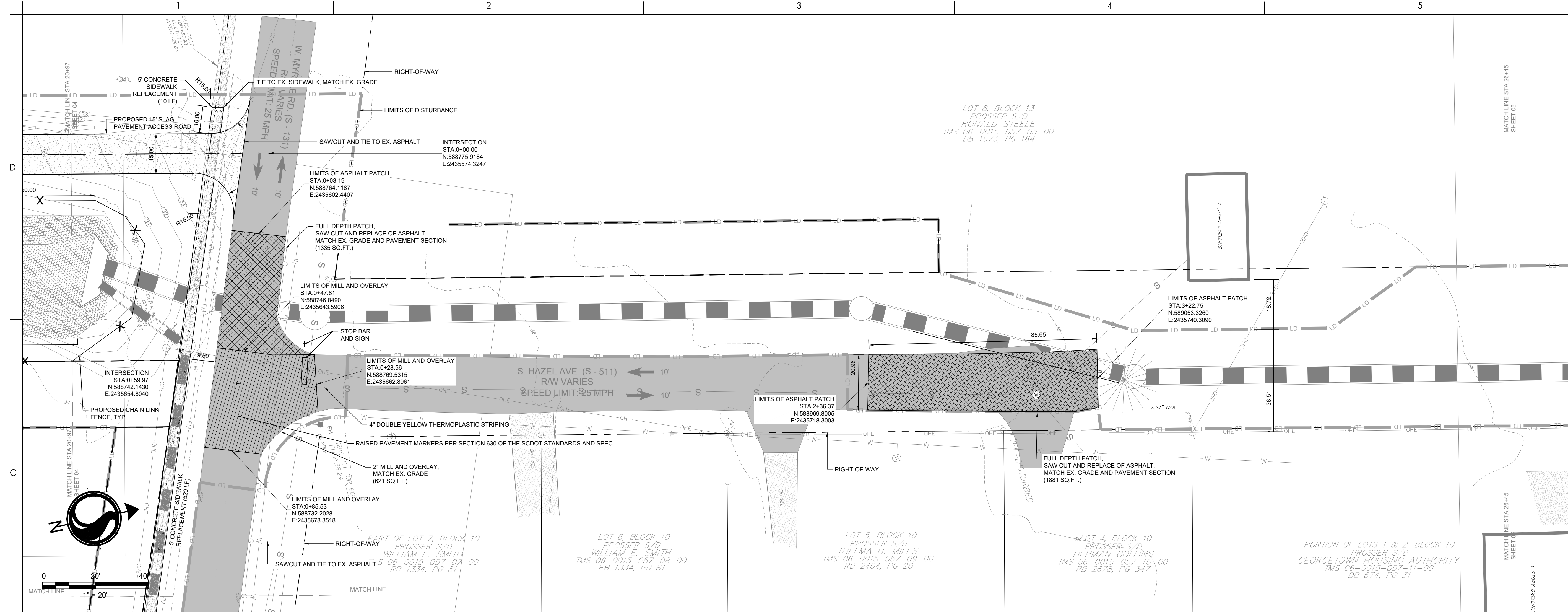
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

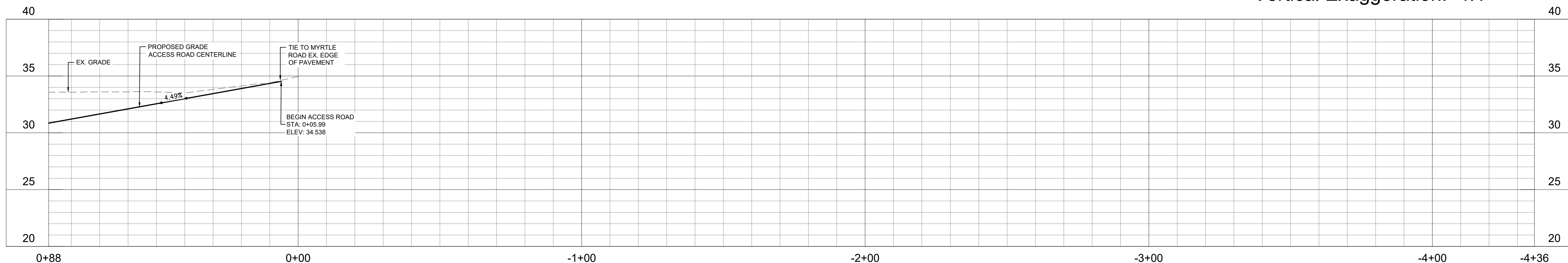
TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
| Revision Sheet C6-05 of 65 | Drawing No. C6-05 |



Profile View: ACCESS ROAD-PV299
Alignment: ACCESS ROAD
Start Sta: -4+36.00
End Sta: 0+88.00
Horizontal Scale: 1" = 20
Vertical Scale: 1" = 5'
Vertical Exaggeration: 4:1





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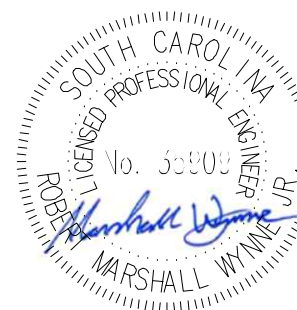
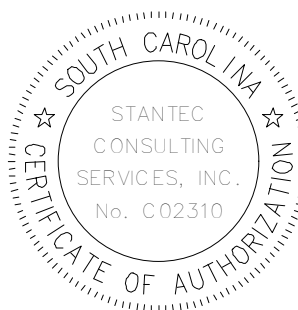
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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
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| Revision | By | Aspd | YYYY.MM.DD |

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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

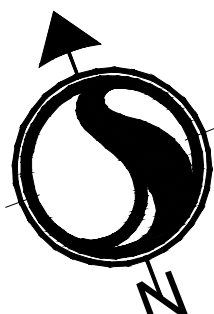
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| Project No. 178421035 | Scale |
| Revision Sheet C6-06 of 65 | Drawing No. C6-06 |

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0 20' 40'
1" = 20'

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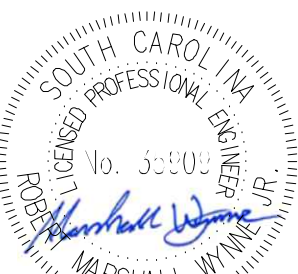
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| Revision | By | Aspd | YYYY.MM.DD |

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PHASE 2

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GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

Project No.
178421035

Scale

Revision Sheet
C6-07 of 65

Drawing No.

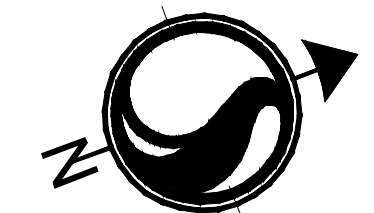
C6-07

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0 20' 40'
1" = 20'

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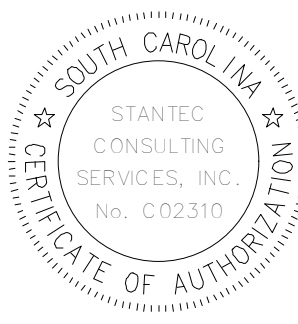
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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

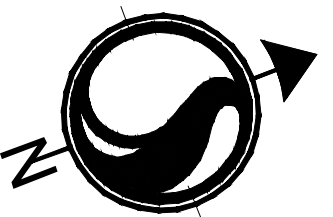
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| Project No. 178421035 | Scale |
| Revision C6-08 of 65 | Drawing No. C6-08 |

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0 20' 40'
1" = 20'

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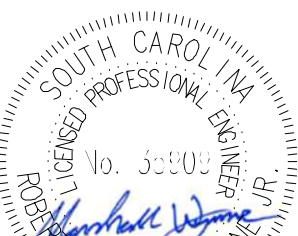
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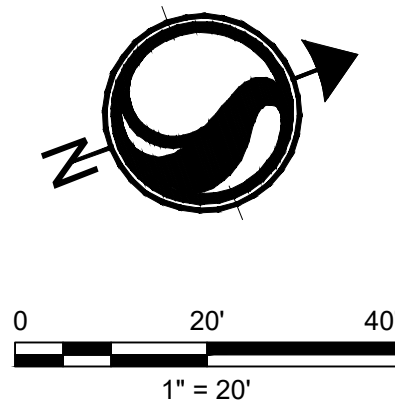
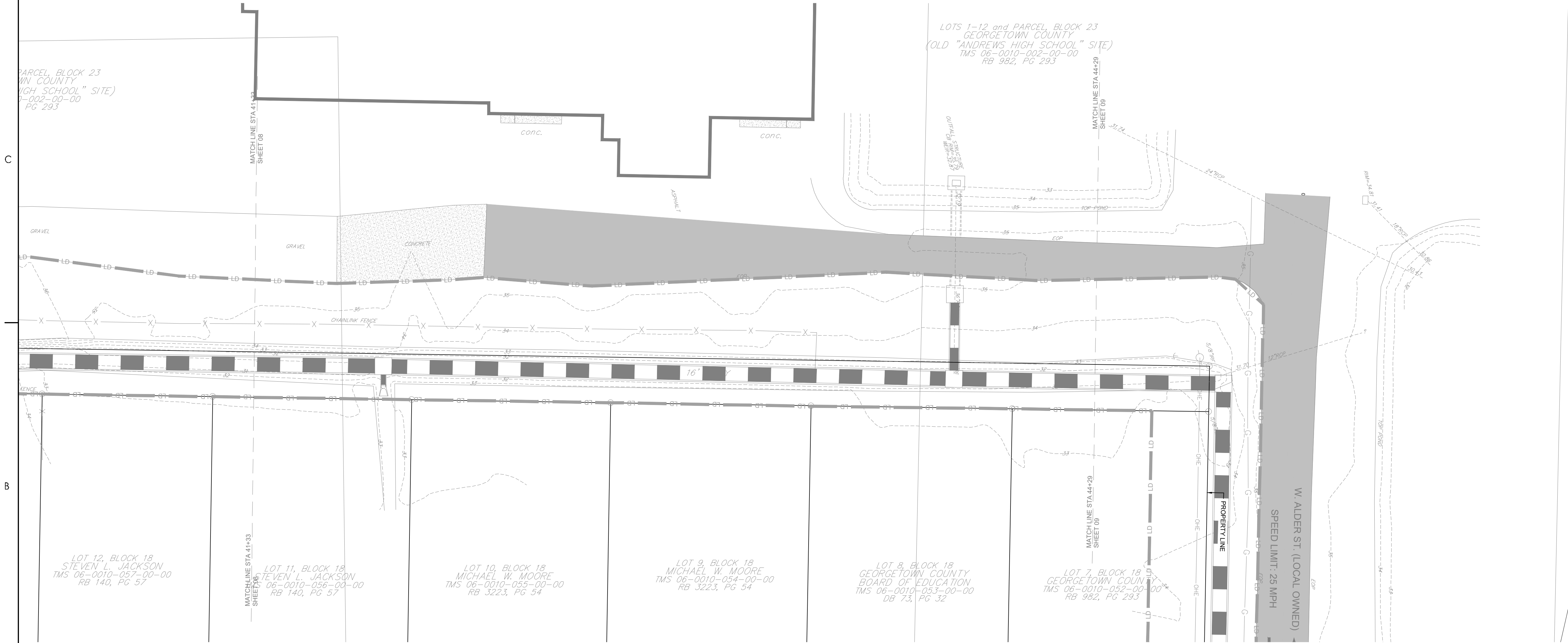
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GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
| Revision Sheet C6-09 of 65 | Drawing No. C6-09 |



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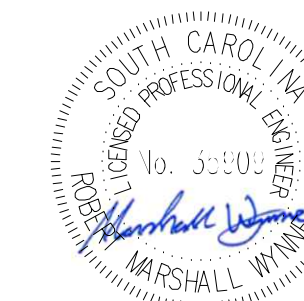
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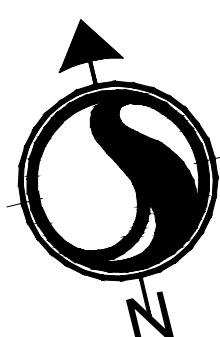
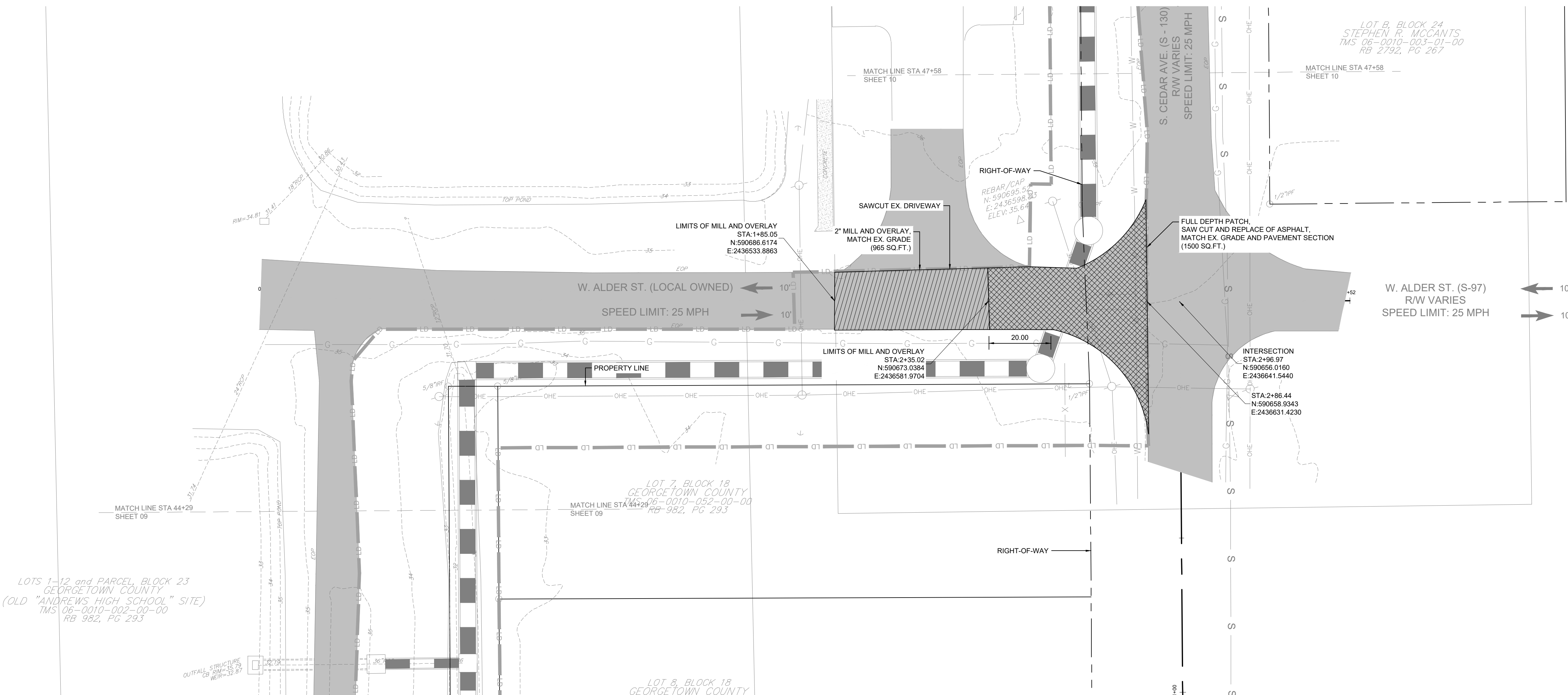
TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
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| Revision --- | Sheet C6-10 of 65 | Drawing No. C6-10 |
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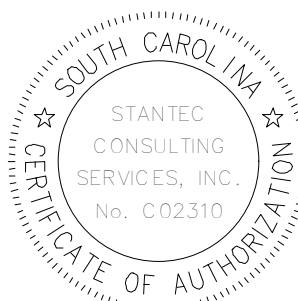
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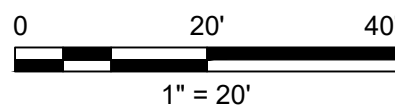
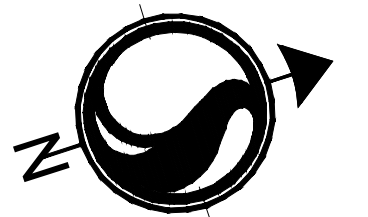
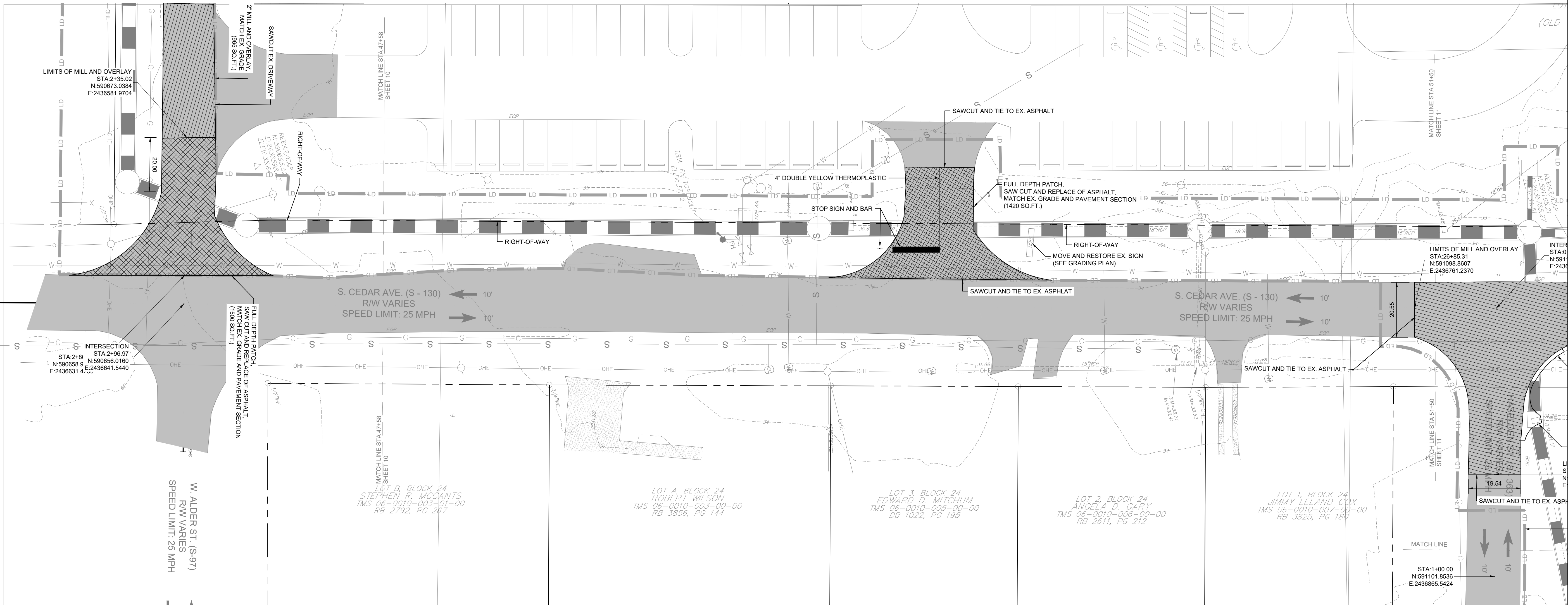
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
| Revision C6-11 of 65 | Drawing No. C6-11 |





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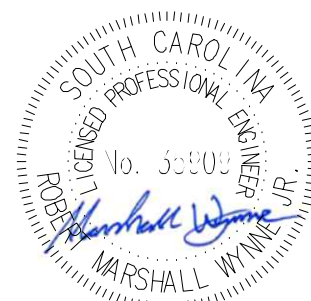
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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title

ROADWAY PLAN

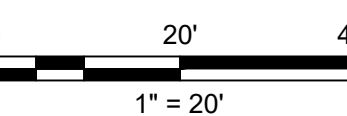
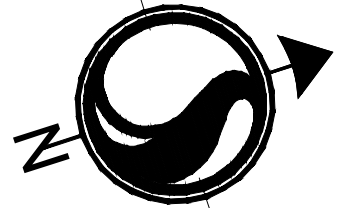
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| Project No. 178421035 | Scale |
| Revision Sheet C6-12 of 65 | Drawing No. C6-12 |

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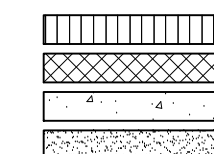
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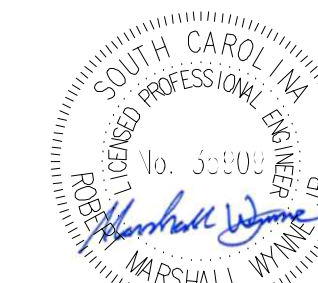


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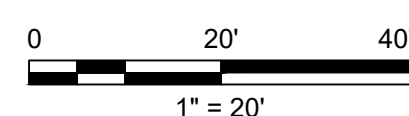
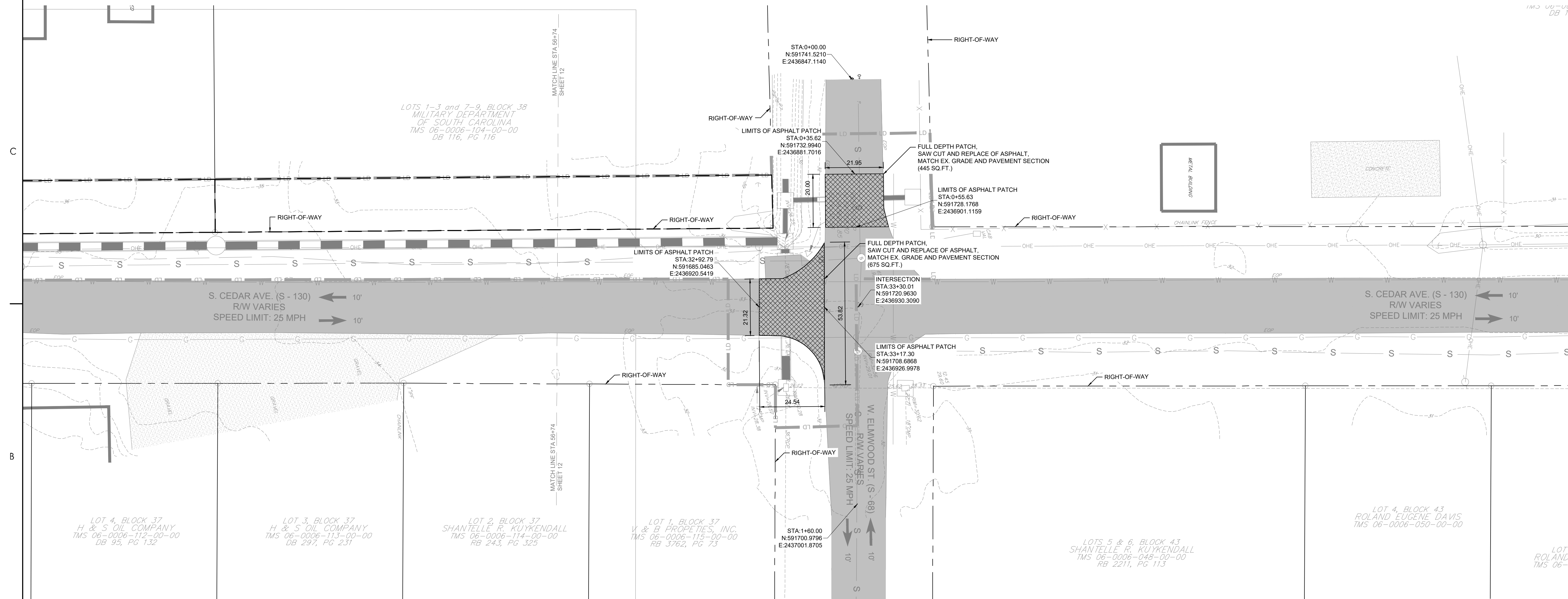
TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

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| Project No. 178421035 | Scale |
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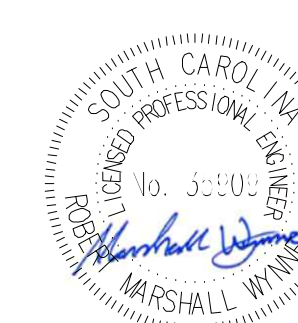
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

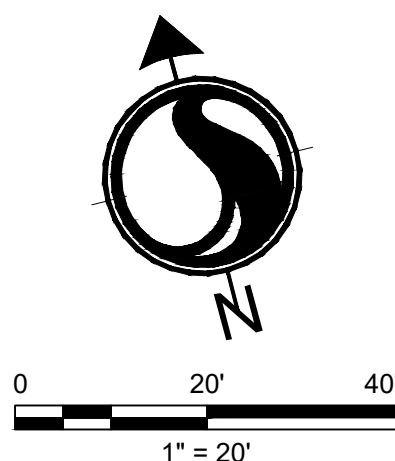
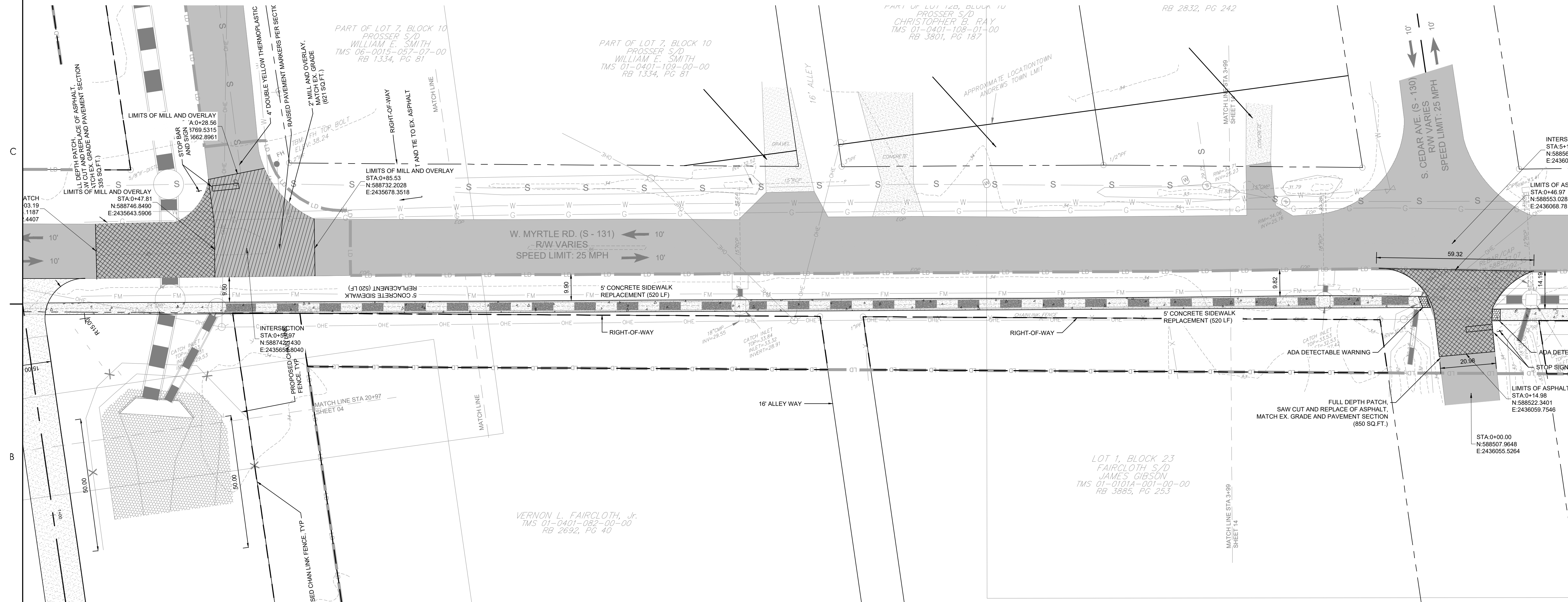
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C6-14 of 65

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C6-14





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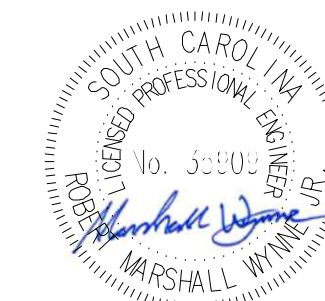
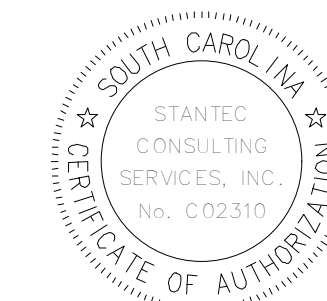
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PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
ROADWAY PLAN

Project No.
178421035

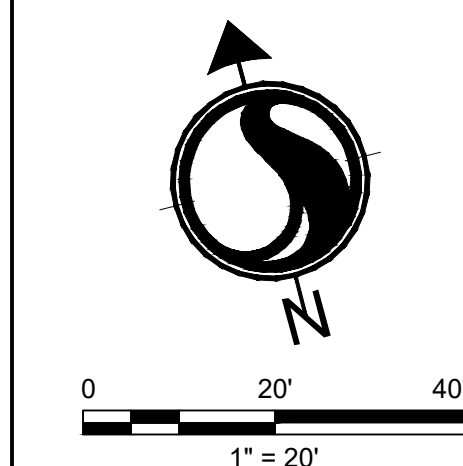
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Revision Sheet
C6-15 of 65

Drawing No.

C6-15

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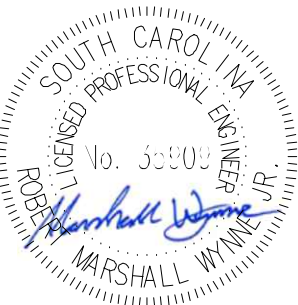
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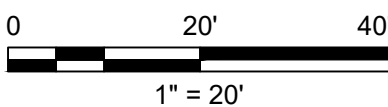
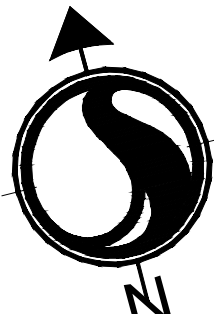
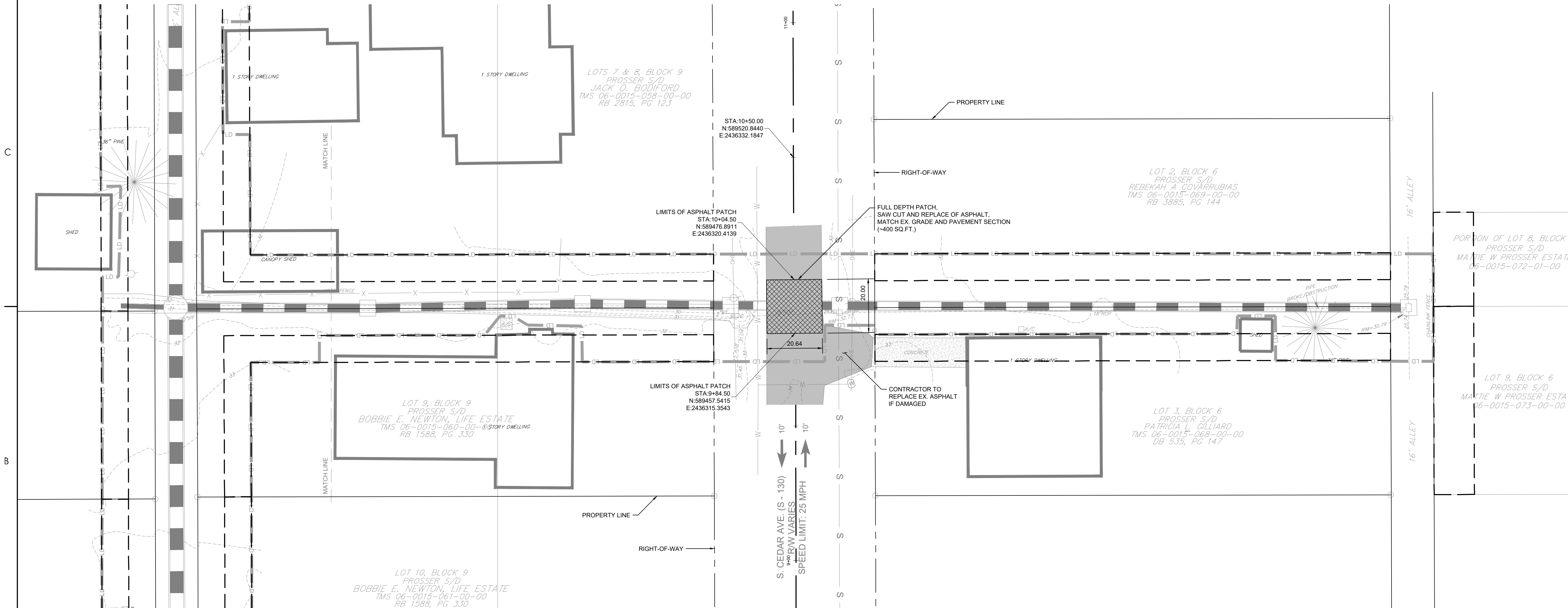
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

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ROADWAY PLAN

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| Project No. 178421035 | Scale |
| Revision C6-16 of 65 | Drawing No. C6-16 |



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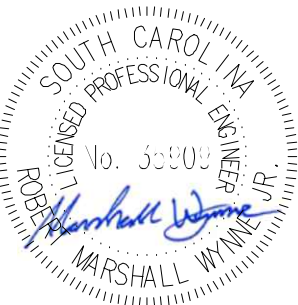
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GEORGETOWN COUNTY, SOUTH CAROLINA

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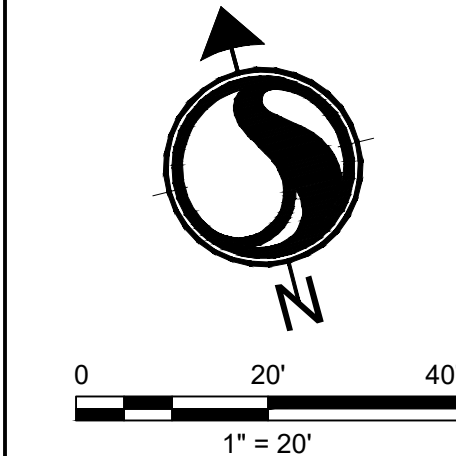
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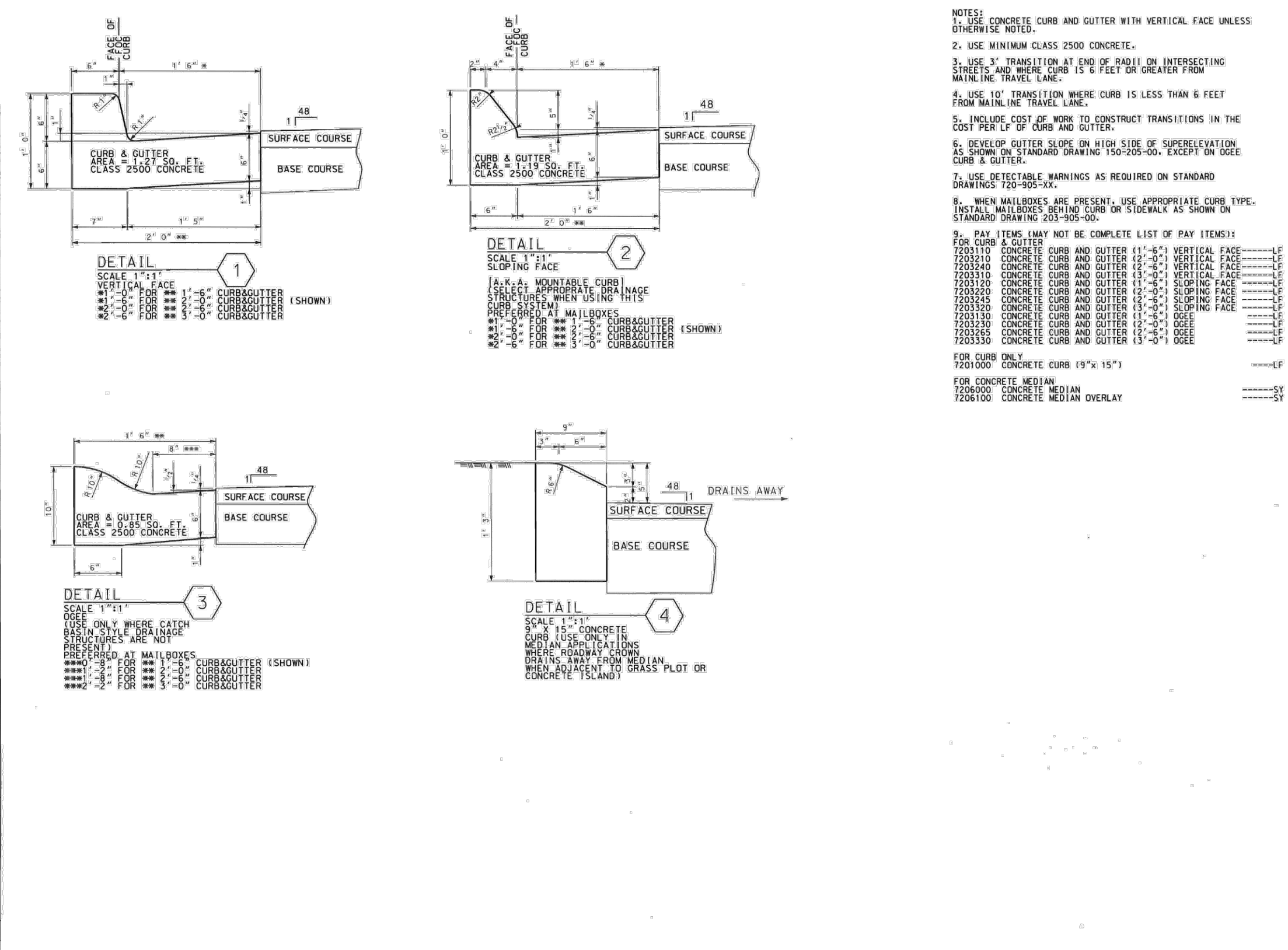
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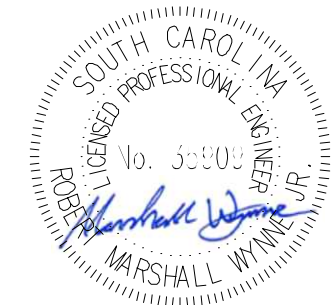


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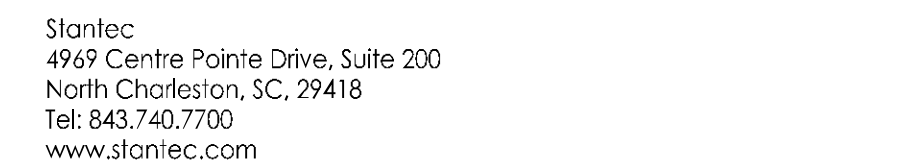
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| Project No. 178421035 | | Scale |
| Revision 2 | Sheet C7-00 of 65 | Drawing No. C7-00 |

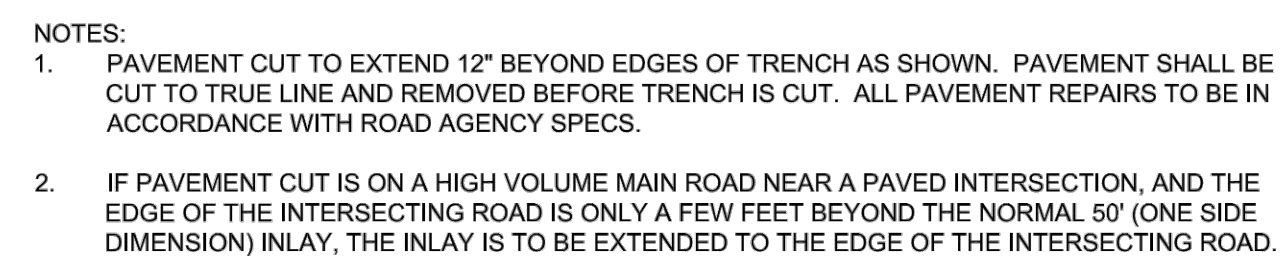


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1. *Journal of Management Studies*, 1997, 34, 1, 1-14.

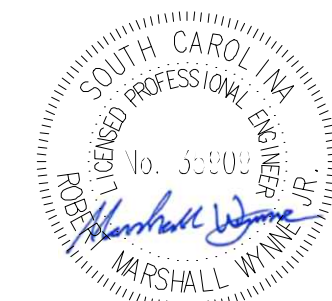


The image contains three technical drawings illustrating sidewalk construction details:

- Top Drawing: Standard Sidewalk**
 - Shows a plan view of a sidewalk with a width of 5'-0" and a maximum distance of 30' between expansion joints.
 - Labels include: "BACK OF CURB", "4" THICK (TYP.), 3000 P.S.I.", "SIDEWALK SURFACE TO BE BROOM FINISH", and "EXPANSION JOINTS".
 - A cross-section view shows the sidewalk is 4" thick, with a "VARIES" width for the curb.
- Bottom Left Drawing: Standard Sidewalk Cross-section**
 - Shows a cross-section of the sidewalk with a 5' MIN. width and a 1/4" PER FOOT slope.
 - Labels include: "ASPHALT", "3000 PSI CONCRETE", and "CONCRETE SCORING 5' O.C. AND EXPANSION JOINTS AT 30' O.C.".
 - Dimensions shown: 4" for the concrete thickness, 8" for the total depth, and 4" for the base layer.
- Bottom Right Drawing: Turn-Down Sidewalk**
 - Shows a cross-section of a turn-down sidewalk with a 5' MIN. width and a 1/4" PER FOOT slope.
 - Labels include: "ASPHALT", "3000 PSI CONCRETE", and "CONCRETE SCORING 5' O.C. AND EXPANSION JOINTS AT 30' O.C.".
 - Dimensions shown: 4" for the concrete thickness, 12" for the total depth, and 6" for the base layer.

NOT TO SCALE

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| ISSUED FOR CONSTRUCTION | RMW | BK | 2022.06.28 |
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TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

Title
ROADWAY DETAILS

| | | |
|----------|-------------|-------------|
| Revision | Sheet | Drawing No. |
| ----- | C7-01 of 65 | C7-01 |

- CONSTRUCTION NOTES:
1. PORTABLE PLASTIC DRUMS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NUMBER 601-005-00, AND AS DIRECTED BY THE PLANS.
 2. CONSTRUCTION OF THIS PROJECT REFERENCES THE FOLLOWING SCDOT STANDARD DRAWINGS:
 - 2.1. 601-005-00 WIDENING PROJECTS NEW ROADWAY CONSTRUCTION PRIMARY ROUTES
 - 2.2. 605-005-01 CONSTRUCTION SIGNING GROUND MOUNTED ASSEMBLY U CHANNEL POSTS - BREAKAWAY INSTALLATION
 - 2.3. 605-010-02 CONSTRUCTION SIGNING PERMANENT PRIMARY ROUTES
 - 2.4. 605-025-01 CONSTRUCTION SIGNING SPECIAL SIGNS LET 'EM WORK LET 'EM LIVE
 - 2.5. 605-030-02 CONSTRUCTION SIGNING "ROAD WORK" SIGNS "END ROAD WORK"
 - 2.6. 610-015-00 LANE CLOSURE NIGHT TIME URBAN LOW SPEED (<35 MPH)
 - 2.7. 610-205-00 RIGHT SHOULDER CLOSURE (CASE I/CASE II) PRIMARY ROUTES

- CONSTRUCTION SEQUENCE:
1. INSTALL PERMANENT CONSTRUCTION SIGNS.
 2. INSTALL PORTABLE PLASTIC DRUMS.
 3. MAINTAIN MINIMUM ONE LANE OF TRAFFIC IN EACH DIRECTION ON EXISTING LANES, UTILIZING FLAGMEN.
 4. CONSTRUCT SHADED PORTION OF MILL AND OVERLAY AS SHOWN.



Stantec
4969 Centre Pointe Drive, Suite 200
North Charleston, SC, 29418
Tel: 843.740.7700
www.stantec.com

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Consultant



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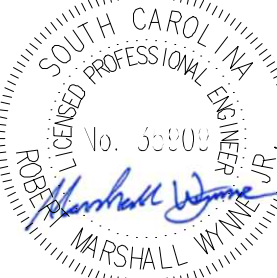
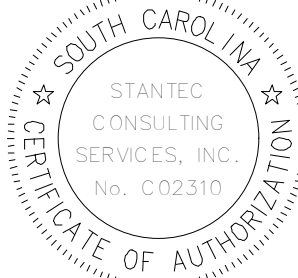
Legend

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| PER BID ADDENDUM #2 | R/W | BK | 2023.01.04 |
| PER BID ADDENDUM #1 | R/W | BK | 2022.12.21 |
| Revision | By | Aspd | YYYY.MM.DD |

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| ISSUED FOR CONSTRUCTION | R/W | BK | 2022.06.28 |
| Issued | By | Aspd | YYYY.MM.DD |

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| File Name: 1035_C8_TRAFFIC | SCC | SCC | BK | 2020.10.09 |
| | Dwn. | Dsgn. | Chkd. | YYYY.MM.DD |

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06/28/2022

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GEORGETOWN COUNTY

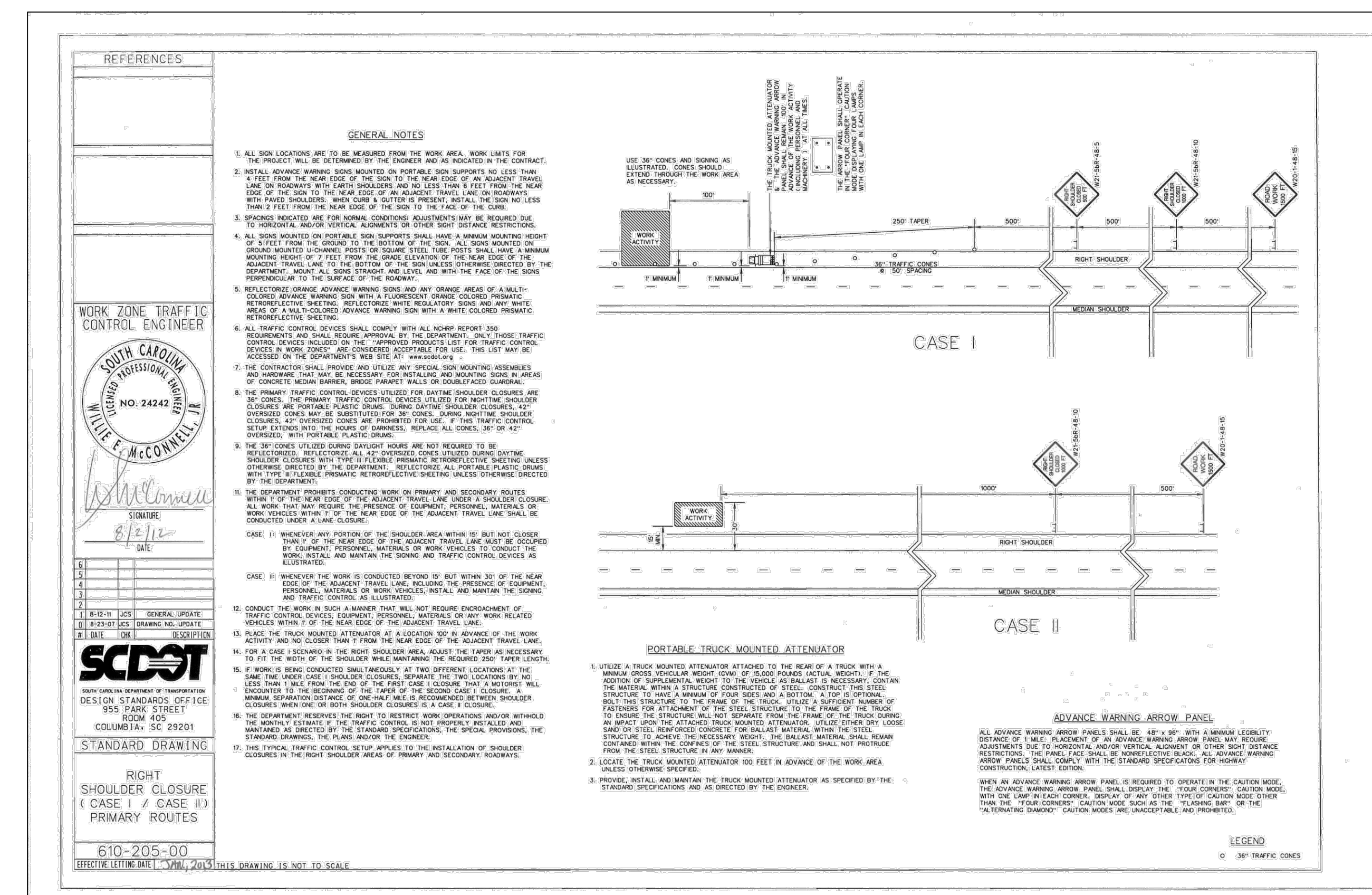
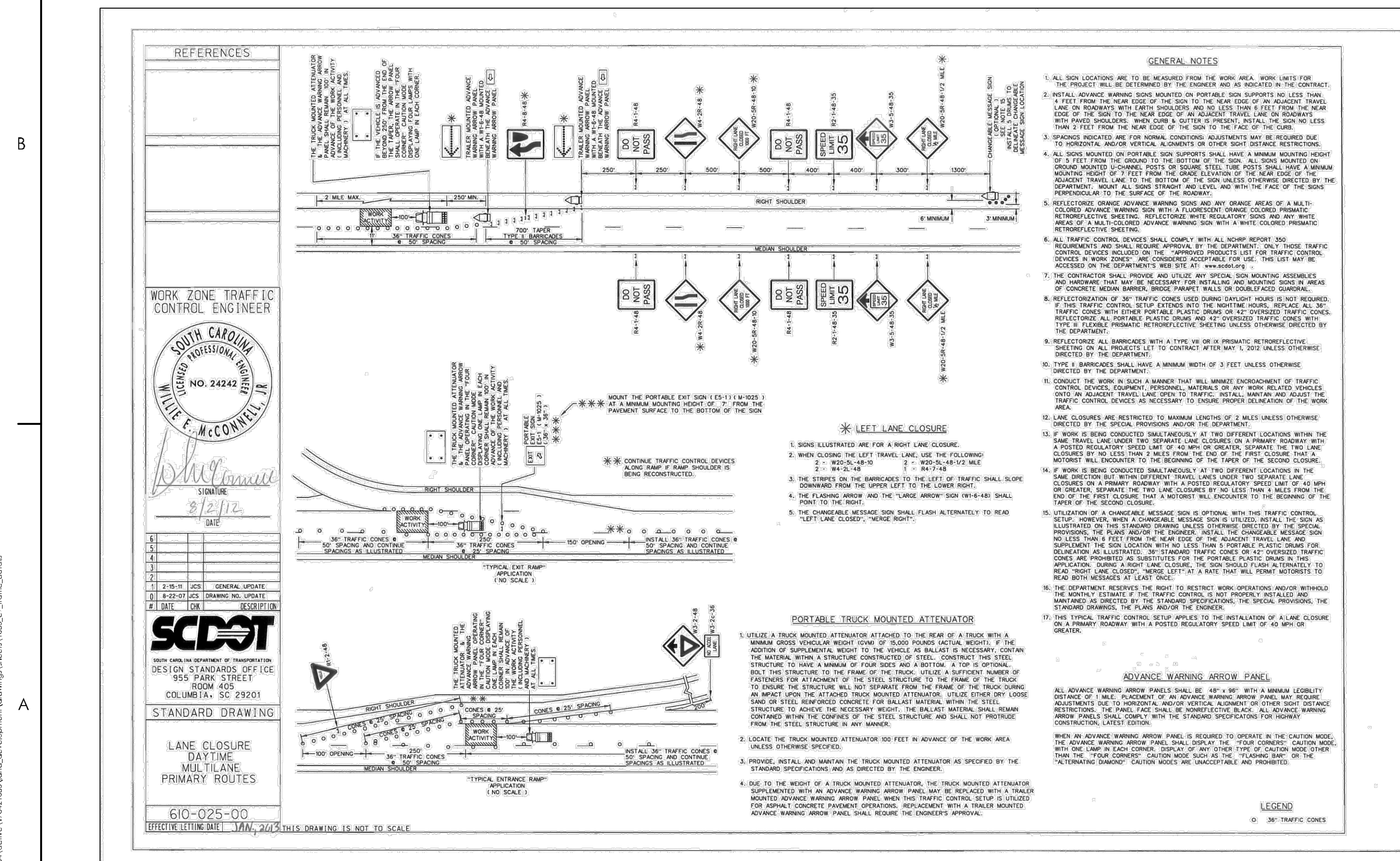
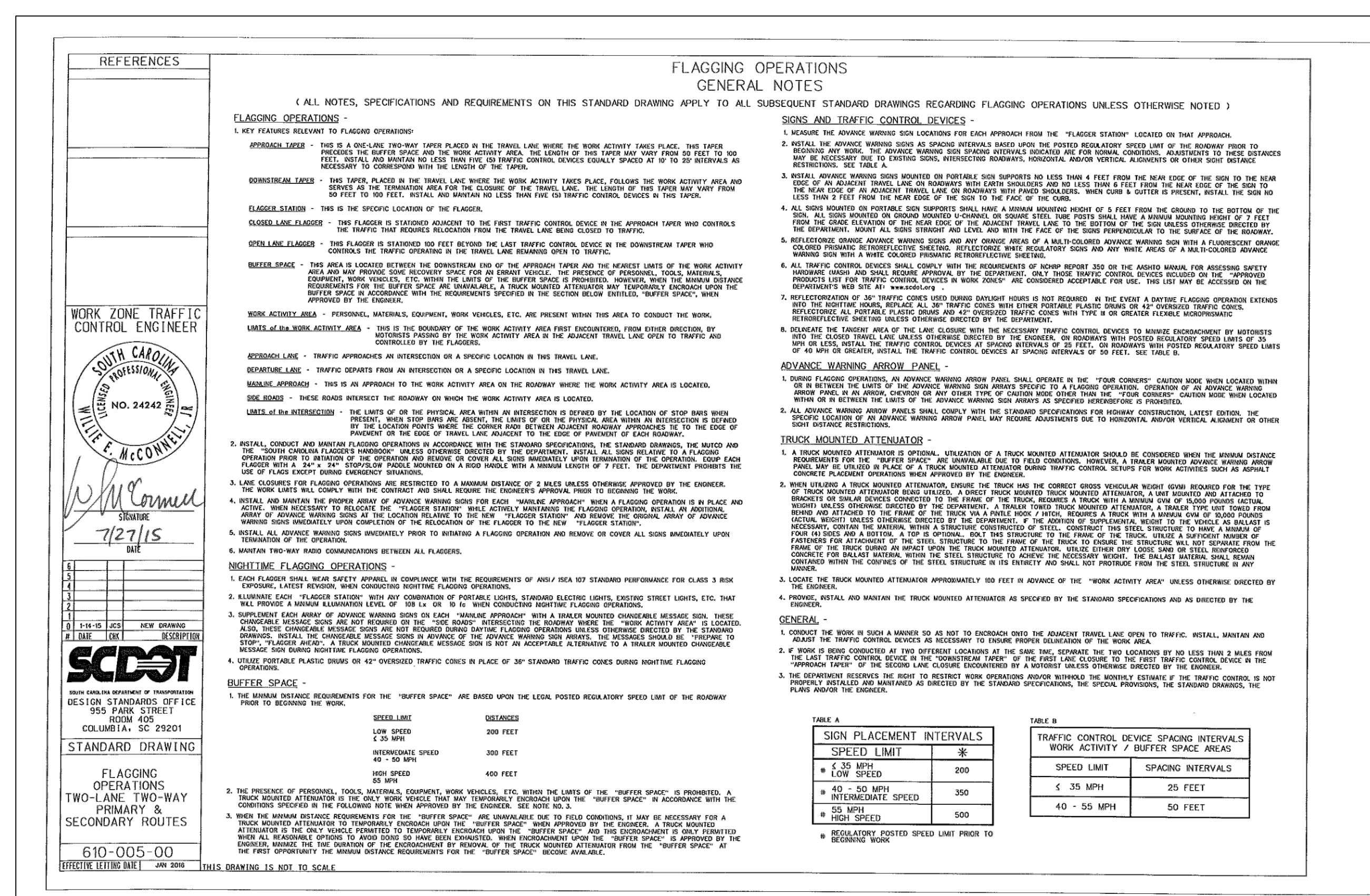
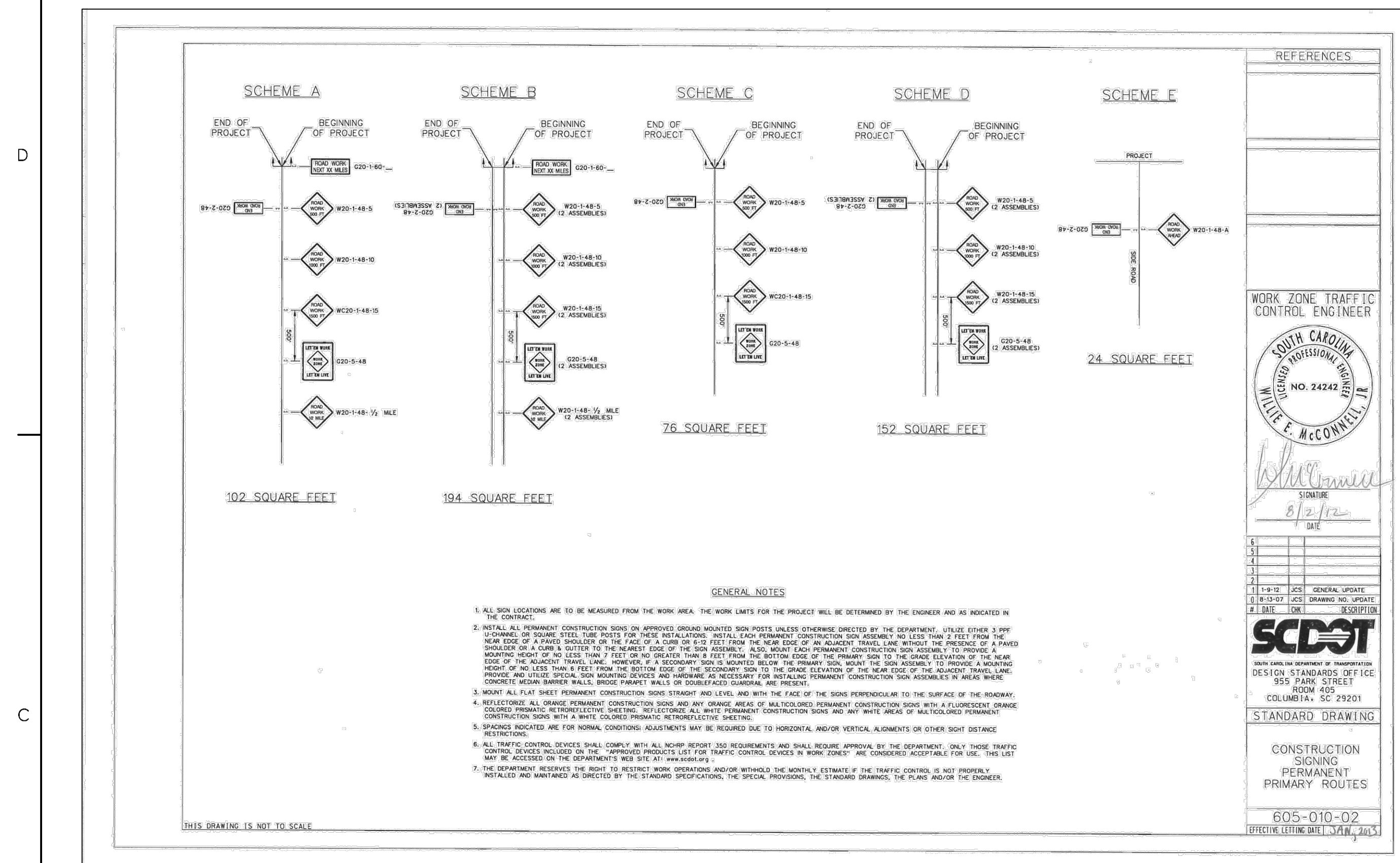
TOWN OF ANDREWS DRAINAGE IMPROVEMENTS
PHASE 2

TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
TRAFFIC CONTROL PLAN


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| Revision | Sheet | Drawing No. |
| --- | C8-00 of 65 | C8-00 |



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| | Dwn. | Dscrn. | Chkd. |
| | | | YYYY.MM.DD |

TH. CAROL

A circular professional engineer seal for the State of South Carolina. The outer ring contains the text "SOUTH CAROLINA" at the top and "MARSHALL WAYNE" at the bottom. The inner ring contains "LICENSED PROFESSIONAL ENGINEER". In the center, the number "No. 35505" is printed. A signature, "Marshall Wayne", is written across the seal.

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Client/Project
GEORGETOWN COUNTY

TOWN OF ANDREWS DRAINAGE IMPROVEMENT
PHASE 2TOWN OF ANDREWS
GEORGETOWN COUNTY, SOUTH CAROLINA

Title
TRAFFIC CONTROL DETAILS

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| Project No. | Scale |
| 178421035 | |

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| Revision | Sheet | Drawing No. |
| | C9-00 of 65 | C9-00 |