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NEWBERRY COUNTY
SUBERTOWN ROAD/GARY STREET
SIDEWALK PROJECT

CDBG PROJECT # 4-CE-22-09

BID PLAN SET

ISSUED FOR BID ON: 9.24.2026

PREPARED FOR:

NEWBERRY COUNTY, SOUTH CAROLINA

1309 COLLEGE STREET, NEWBERRY, SC 28108

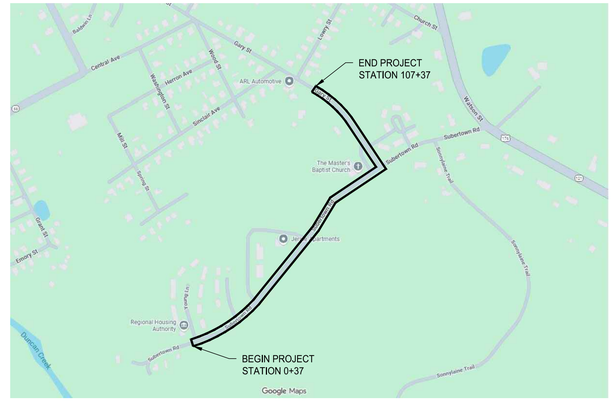
843.563.0100

PROJECT LOCATION:

SUBERTOWN ROAD FROM YOUNG LANE TO GARY STREET (S-36-188) AND

GARY STREET FROM SUBERTOWN ROAD (S-36-578) TO LOWRY STREET (S-36-393)

WHITMIRE, SC 29178



VICINITY MAP

PROJECT OWNER

NEWBERRY COUNTY
TED LUCKADOO
COUNTY ADMINISTRATOR
1309 COLLEGE STREET
NEWBERRY, SC 28108
PHONE: (803) 321-2100
EMAIL: tluckadoo@newberrycounty.gov

CIVIL ENGINEER/LANDSCAPE ARCHITECT

THE LANDPLAN GROUP SOUTH, INC.
1206 SCOTT STREET
COLUMBIA, SC 29201
PHONE: 803.256.0562
EMAIL: ADMIN@LANDPLANSOUTH.COM

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LANDSCAPE ARCHITECTURE • ENGINEERING • PLANNING
1206 SCOTT STREET
COLUMBIA, SC 29201
803.256.0562
WWW.LANDPLANSOUTH.COM

REVISION	BY	APPD.	MM.DD.YY
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FILE NAME: 1192_CS_GN | CAL | CWH | CAL | 09.24.26
DWN. | CHKD. | DSGN. | MM.DD.YY

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 LICENSED CHRISTOPHER A. JAMES

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH, INC. No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
COVER SHEET

JOB #: 1192
SCALE: AS SHOWN
SHEET: 1 OF 20

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GENERAL NOTES:

1. THIS DRAWING IS BASED ON A SURVEY PREPARED BY HUNSINGER LONG ASSOCIATES, LLC , LOCATED AT 126 PINE POINT DRIVE, LEXINGTON, SC 29072.
2. THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING ANY WORK. IF UTILITIES OTHER THAN THOSE SHOWN HEREON ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND TAKE APPROPRIATE MEASURES TO PROTECT THE LINE(S) AND ENSURE CONTINUED SERVICE. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONTRACTORS/SUBCONTRACTORS/PERSONS THAT WILL BE ENGAGED IN LAND DISTURBING ACTIVITIES SHALL COMPLY WITH ALL EROSION CONTROL AND STORMWATER POLLUTION PREVENTION REQUIREMENTS CONTAINED THROUGHOUT THE DRAWINGS, SPECIFICATIONS, AND PERMITS.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DETERMINE THE EXTENT OF WORK PRIOR TO ANY AND ALL CONSTRUCTION AND PROMPTLY NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND THE CONTRACT DOCUMENTS.CONTRACTOR NOT TO PROCEED UNTIL FURTHER DIRECTION HAS BEEN GIVEN BY THE OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY COORDINATION AND COOPERATION WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES THROUGHOUT THE CONSTRUCTION PROCESS.
6. CONTRACTOR SHALL BE FAMILIAR WITH AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE LOCAL MUNICIPALITY(IES) AND STATE HAVING JURISDICTION. NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE PLANS AND APPLICABLE CODES. CONTRACTOR NOT TO PROCEED UNTIL FURTHER DIRECTION HAS BEEN GIVEN BY THE OWNER.
7. CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE.
8. CONTRACTOR SHALL COORDINATE BI-MONTHLY MEETINGS. THE CONTRACTOR SHALL BE PREPARED TO DISCUSS PROGRESS AND SCHEDULE AT THESE MEETINGS.
9. THE CONTRACTOR IS RESPONSIBLE FOR FIELD STAKING ALL CONSTRUCTION ELEMENTS AND REVIEWING THIS LAYOUT WITH THE OWNER PRIOR TO BEGINNING ANY CONSTRUCTION.
10. THE CONTRACTOR IS ADVISED THAT THE LOCATION OF THE WORK SHOWN ON THE DRAWINGS IS SUBJECT TO SLIGHT ADJUSTMENT IN THE FIELD TO AVOID NEW AND EXISTING UTILITIES AND AS FIELD CONDITIONS DICTATE. ALL CHANGES SHALL BE AUTHORIZED BY THE ENGINEER AND OWNER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR MAKING THESE ADJUSTMENTS UNLESS THE ADJUSTMENT CHANGES THE SCOPE OF THE WORK AS STATED IN THE GENERAL CONDITIONS.
11. CONTRACTOR SHALL SCHEDULE THE WORK OF THE PROJECT TO FACILITY ACTIVITY ALONG THE COMMERCIAL CORRIDOR. THE PREFERRED SEQUENCE OF WORK IN THIS PROJECT AND CONSTRUCTION PARAMETERS SHALL BE APPROVED BY THE OWNER.
12. CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS AND ROADWAYS DURING CONSTRUCTION.
13. CONTRACTOR SHALL MAINTAIN TRAFFIC IN ALL DIRECTIONS AT ALL TIMES. ANY TRAFFIC REROUTING SHALL BE SUBMITTED TO THE SCDOT AND THE TOWN OF WHITMIRE FOR APPROVAL PRIOR TO ANY LANE CLOSURES OR REROUTING OF TRAFFIC. IN ADDITION THE CONTRACTOR SHALL NOTIFY THE OWNER, FIRE DEPARTMENT, POLICE DEPARTMENT, AND ANY OTHER EMERGENCY AGENCIES OF ANY CLOSURE AND TRAFFIC REROUTING AT LEAST 24 HOURS PRIOR TO ANY CLOSURES.
14. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SAMPLES FOR ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PRIOR TO ORDERING.
15. WHERE NEW CONSTRUCTION IS TO TAKE PLACE, THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY MATERIAL, I.E. SIGNAGE, LIGHT POLE, ETC., AT HIS OR HER OWN EXPENSE.
16. ALL UNDERGROUND CONSTRUCTION SHALL BE COMPLETED AND ACCEPTED BY THE ENGINEER PRIOR TO NEW SURFACE CONSTRUCTION.
17. ALL STRUCTURES ADJACENT TO CONCRETE PAVEMENT SHALL HAVE EXPANSION MATERIAL BETWEEN THE STRUCTURE AND THE NEW OR EXISTING PAVEMENT.
18. OFF-SITE BORROW NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR FROM SOURCES DEVELOPED BY THE CONTRACTOR. CONTRACTOR TO HAUL IN/OUT THE NECESSARY DIRT AT THE CONTRACTOR'S EXPENSE TO COMPLETE THE PROJECT PER THE PLANS AND SPECIFICATIONS. EXCESS DIRT SHALL BE HAULED OFF-SITE AT THE CONTRACTOR'S EXPENSE.
19. ALL FILL MATERIAL SHALL BE FREE FROM ROOTS, ORGANIC MATTER, AND TRASH. STONES SHALL HAVE A MAXIMUM DIMENSION OF SIX INCHES.
20. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
21. CONTRACTOR SHALL GRADE ALL AREAS TO DRAIN FOR POSITIVE FLOW AWAY FROM ALL STRUCTURES AND BUILDINGS PRIOR TO FINAL APPROVAL.
22. THE DESIGN ADEQUACY AND SAFETY OF ALL BRACING, SHORING AND TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL PERFORM INVESTIGATIONS TO VERIFY THAT ALL WORK IS ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS. THE GEOTECHNICAL REPORTS NEED TO BE PROVIDED TO THE OWNER AS PERFORMED IN PDF FORMAT (DIGITALLY).
24. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WHITMIRE, NEWBERRY COUNTY, SCDOT, AND SCDHEC.
25. IN PERFORMING CONSTRUCTION OBSERVATION VISITS TO THE JOBSITE, THE ENGINEER SHALL HAVE NO CONTROL OVER NOR RESPONSIBILITY FOR THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK.
26. THE CONTRACTOR'S MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES IN PERFORMING THE WORK IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR, WHO IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL HEALTH AND SAFETY PRECAUTIONS AS REQUIRED BY ANY REGULATORY AGENCY.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR DESIGN, ADEQUACY AND IMPLEMENTATION OF ALL DEWATERING. DISCHARGES FROM DEWATERING DEVICES SHALL BE EQUIPPED SO AS TO PREVENT EROSION AND/OR DEPOSITION OF SEDIMENT BEYOND CONSTRUCTION LIMITS.
28. CONTRACTOR TO PROVIDE ALL REQUIRED SCDHEC SWPPP INSPECTIONS BY A THIRD PARTY INSPECTOR.
29. ALL DISTURBED AREAS TO BE GRASSED/LANDSCAPED PER PLANS AND SPECIFICATIONS.
30. CONTRACTOR TO HAUL IN/OUT THE NECESSARY DIRT AT THE CONTRACTOR'S EXPENSE TO COMPLETE THE PROJECT PER THE PLANS AND SPECIFICATIONS.
31. CONTRACTOR TO PROVIDE AN AS-BUILT OF THE NEWLY INSTALLED WORK IN AN AUTOCAD DIGITAL FORMAT IN SAME COORDINATE SYSTEM AS THE ORIGINAL CONSTRUCTION DOCUMENTS AND ACCEPTABLE TO THE ENGINEER.

UTILITY NOTES:

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWINGS BASED ON THE BEST AVAILABLE INFORMATION PROVIDED BY THE SURVEYOR. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES PRIOR TO ANY EXCAVATION TO VERIFY ACTUAL FIELD LOCATION, PROTECTION, AND/OR RELOCATION OF EXISTING UTILITY LINES IN CONFLICT OR ADJACENT TO THE PROPOSED WORK.
2. CONTRACTOR TO INSTALL POLES AND FIXTURES ACCORDING TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR ALL ELECTRIC WORK AND CONDUIT NECESSARY TO PROVIDE POWER TO LIGHTING AND ELECTRICAL SHOWN ON PLANS. ALL COORDINATION WITH DUKE ENERGY IS THE CONTRACTORS'S RESPONSIBILITIES.

LAYOUT NOTES:

1. ALL DIMENSIONS ARE TAKEN FROM FACE OF CURB, EDGE OF PAVEMENT, OR WALL UNLESS OTHER WISE NOTED.
2. LAYOUT PLANS AND THE DETAILS SHEETS SHOW THE LAYOUT FOR THE WORK TO BE DONE. IF IT IS DISCOVERED THAT THERE IS A DIFFERENCE BETWEEN THE SCALED DIMENSIONS AND LAYOUT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.
3. THE CONTRACTOR SHALL LAYOUT ENTIRE JOB TO BE REVIEWED BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO BEGINNING ANY CONSTRUCTION.

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EROSION CONTROL NOTES:

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO GRASSING/HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED , EXCEPT AS STATED BELOW.
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY 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 ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION, IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ AND SCR100000.
8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR 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-FT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FT 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, INSPECTION 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 THE FINAL STABILIZATION IS REACHED.
12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF SEVEN (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, FROM 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. INSPECTIONS TO BE PERFORMED BY A SCDHEC CEPSCI CERTIFIED INSPECTOR.
18. IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB MORE THAN 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
20. SILT FENCING LINE ON EROSION CONTROL PLAN SHEETS ARE SHOWN FOR GRAPHICAL PURPOSES. SILT FENCING SHALL BE PLACED AT THE LIMITS OF DISTURBANCE
21. THE DISTURBED AREA IS APPROXIMATELY 0.59 AC (REFER TO EROSION CONTROL PLANS FOR LIMITS OF DISTURBANCE).

SIDEWALK, PAVING, AND GRADING:

1. THE NEW SIDEWALKS, ROADS, LANDSCAPED ISLANDS, AND CROSSWALKS SHALL BE GRADED IN ACCORDANCE WITH THE PROPOSED ELEVATIONS SHOWN IN THE GRADING AND DRAINAGE PLANS. IN CASES WHERE THE GRADES ARE NOT SHOWN, THE PROPOSED GRADE WILL BE INTERPOLATED BETWEEN SPOT ELEVATIONS. GENERALLY, THE FINISHED SURFACE ARE GRADED FOR PROPER CONVEYANCE OF STORMWATER RUNOFF TO NEW AND EXISTING DRAINAGE INLETS.
2. THE CONTRACTOR SHALL ADJUST, AS NECESSARY, THE EXISTING MANHOLE COVERS, DRAINAGE GRATES, VENT GRATES, VALVE COVERS, ETC. TO MATCH GRADE OF NEW ASPHALT PAVEMENT, CONCRETE SIDEWALK SURFACES, OR NEWLY GRADED AREAS AT NO ADDITIONAL COST TO THE OWNER. ALL WATER METER ADJUSTMENTS SHALL BE PERFORMED BY THE CITY OF WHITMIRE AND COORDINATED WITH THE CONTRACTOR. METER BOXES ARE TO BE TRAFFIC RATED.
3. SIDEWALK SHALL HAVE A MINIMUM OF ONE-PERCENT (1%) CROSS SLOPE TO ASSURE POSITIVE DRAINAGE TOWARDS THE ROAD. IF POSITIVE DRAINAGE IS NOT ACHIEVED BASED ON ELEVATIONS SHOWN, INFORM THE ENGINEER IMMEDIATELY. MAXIMUM CROSS SLOPE SHALL BE TWO-PERCENT (2%) UNLESS WHERE SPECIFICALLY SHOWN.
4. THE CONTRACTOR SHALL CONSTRUCT A MOCK-UP FOR A SIDEWALK TO BE APPROVED BY OWNER PRIOR TO ANY CONCRETE AND PLAY COURT WORK BEING PERFORMED AND WILL BE USED AS A BASIS FOR THE QUALITY WORKMANSHIP OF FINISHES THROUGHOUT THE PROJECT. CONTRACTOR MAY USE A PORTION OF NEW WORK AS EXAMPLE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION IN ACCORDANCE WITH THE SPECIFICATIONS. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK.
6. THE CONTRACTOR SHALL VERIFY POSITIVE DRAINAGE IS ACHIEVED FROM ALL AREAS TO NEW AND/OR EXISTING STORM DRAIN INLETS. PAVEMENT "BIRD BATHS" WILL BE UNACCEPTABLE. IF "BIRD BATHS" ARE DISCOVERED, CONTRACTOR TO REMOVE PAVEMENT AND REPAIR AT THE CONTRACTORS EXPENSE.
7. ALL DRAINAGE STRUCTURES WITHIN SCDOT RIGHT-OF-WAYS SHALL BE TO SCDOT STANDARDS.

SEQUENCE OF CONSTRUCTION:

ITEMS MUST OCCUR IN THE ORDER LISTED; ITEMS CANNOT OCCUR CONCURRENTLY UNTIL SPECIFICALLY NOTED. IF ITEMS DESCRIBED BELOW ARE NOT A PART OF THE SWPPP CONTRACTOR TO ADDRESS NEXT ITEM ON THIS LIST.

1. RECEIVE NPDES COVERAGE FROM DHEC.
2. NOTIFY TOWN OF WHITMIRE AND NEWBERRY COUNTY STORMWATER MANAGEMENT OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.
3. PRECONSTRUCTION MEETING (ON-SITE). A REPRESENTATIVE FROM THE TOWN OF WHITMIRE'S AND NEWBERRY COUNTY'S STORMWATER MANAGEMENT OFFICE MUST BE PRESENT AT THE ON-SITE PRE-CONSTRUCTION MEETING.
4. INSTALLATION OF CONSTRUCTION ENTRANCES.
5. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
6. INSTALLATION OF PERIMETER CONTROLS SUCH AS SILT FENCING.
7. CLEARING AND GRUBBING ONLY IN AREAS OF BASINS/TRAPS/PONDS.
8. INSTALLATION OF BASINS/TRAPS/PONDS AND INSTALLATION OF DIVERSIONS TO THOSE STRUCTURES. OUTLET STRUCTURES MUST BE COMPLETELY INSTALLED AS SHOWN ON THE DETAILS BEFORE PROCEEDING TO NEXT STEP; AREAS DRAINING TO THESE STRUCTURES CANNOT BE DISTURBED UNTIL THE STRUCTURES AND DIVERSIONS TO THE STRUCTURE ARE COMPLETELY INSTALLED.
9. CLEARING AND GRUBBING OF SITE OR DEMOLITION.
10. ROUGH GRADING.
11. INSTALLATION OF INLET PROTECTION AS EACH INLET IS INSTALLED.
12. SIDEWALK AND DRIVEWAY CONSTRUCTION.
13. FINE GRADING, PAVING, ETC.
14. PERMANENT/FINAL STABILIZATION.
15. INSTALLATION OF POST PAVING INLET PROTECTION.
16. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (THE DEPARTMENT RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES.)
17. PERFORM AS-BUILT SURVEYS OF ALL NEW STORM DRAINAGE SYSTEM TO ENGINEER FOR ACCEPTANCE.
18. SUBMIT NOTICE OF TERMINATION (NOT) TO THE CITY OF WHITMIRE, NEWBERRY COUNTY, AND SCDHEC AS APPROPRIATE.

- NOTE: IF NPDES COVERAGE IS BEING ISSUED AFTER LAND-DISTURBING ACTIVITIES HAVE ALREADY STARTED (E.G., IN RESPONSE TO A NOTICE TO COMPLY, NOTICE OF VIOLATION, OR ENFORCEMENT ACTION), THEN THE CONSTRUCTION SEQUENCE MUST SPECIFICALLY INDICATE THE ITEMS THAT HAVE ALREADY OCCURRED AND THE ITEMS THAT WILL BE OCCURRING AFTER NPDES COVERAGE IS ISSUED.
- NOTE: IF FLOWS FROM OFFSITE AREAS WILL BE DIVERTED AROUND THE SITE AND THE ON-SITE STRUCTURES ARE NOT DESIGNED TO HANDLE FLOWS FROM THE OFFSITE AREAS, THEN THE DIVERSION/PIPING FOR THE OFFSITE FLOWS MUST BE INSTALLED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE; INCLUDE THIS IN THE SEQUENCE. SEDIMENT AND EROSION CONTROL MEASURES FOR THE DISTURBED AREAS FOR THE DIVERSION/PIPING MUST BE INSTALLED BEFORE THOSE AREAS ARE DISTURBED AND SHOULD BE SHOWN ON THE PLANS.
- NOTE: IF AN EXISTING DETENTION/SEDIMENT BASIN IS BEING MODIFIED TO HANDLE THE FLOWS FROM THE PROPOSED DEVELOPMENT, THEN IT MUST BE MODIFIED BEFORE LAND-DISTURBING ACTIVITIES BEGIN ON THE SITE. THIS SHOULD BE INCLUDED IN THE SEQUENCE.
- NOTE: INCLUDE INDIVIDUAL LOT DEVELOPMENT/CONSTRUCTION IN THE SEQUENCE IF THE SITE WILL NOT BE MASS-GRADED.
- NOTE: INSTALLATION OF SOME PERMANENT WATER QUALITY DEVICES SHOULD OCCUR AFTER THE SITE IS STABILIZE; INCLUDE THIS IN THE SEQUENCE. CLEANOUT OF OTHER WATER QUALITY DEVICES THAT WERE USED.
- NOTE: MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES MUST CONTINUE UNTIL THE SITE IS PERMANENTLY STABILIZED AND THE CONTROLS ARE REMOVED.

TEMPORARY VEGETATION NOTES:

PLANT SELECTION

PLANT SEED SELECTION SHOULD BE BASED ON THE TYPE OF SOIL AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE. TABLES 1 AND 2 SHOULD BE USED IF YOU PLAN TO USE CONVENTIONAL TILLAGE METHODS (PLOWING, SEEDBED PREPARATION, HYDROSEEDING, ETC). IF YOU NEED A FAST GROWING CROP TO NURSE YOUR PERMANENT SPECIES, THEN USE THE MIX RATE. FAILURE TO CAREFULLY FOLLOW AGRONOMIC RECOMMENDATIONS OFTEN RESULT IN AN INADEQUATE STAND OF TEMPORARY VEGETATION THAT PROVIDES LITTLE OR NO EROSION CONTROL.

TILLAGE

IF THE AREA HAS BEEN RECENTLY PLOWED, NO TILLAGE IS REQUIRED OTHER THAN RAKING OR SURFACE ROUGHENING TO BREAK ANY CRUST THAT HAS FORMED AND TO LEAVE A TEXTURED SURFACE. IF THE SOIL IS COMPACTED LESS THAN 6-INCHES, IT SHOULD BE DISKED FOR OPTIMAL GERMINATION.

SOIL TESTING

INFORMATION AND TEST PROVIDER IS AVAILABLE FROM THE SOIL AND WATER CONSERVATION DISTRICT OFFICE.

LIME

LIME IS NOT REQUIRED FOR TEMPORARY SEEDING UNLESS A SOIL TEST SHOWS THAT THE SOIL PH IS BELOW 5.0. IT MAY BE DESIRABLE TO APPLY LIME DURING THE TEMPORARY SEEDING OPERATION TO BENEFIT THE LONG-TERM PERMANENT SEEDING. APPLY A MINIMUM OF 1.5 TONS OF LIME/ACRE (70 POUNDS PER 1000 SQUARE FEET) IF IT IS TO BE USED.

FERTILIZER

A MINIMUM OF 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER (11.5 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT SHOULD BE APPLIED DURING TEMPORARY SEEDING UNLESS A SOIL TEST INDICATES A DIFFERENT 90 REQUIREMENT. FERTILIZER AND LIME (IF USED) SHOULD BE INCORPORATED INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW.

SEEDING

THE SURFACE OF THE SOIL SHOULD BE LOOSENED JUST BEFORE BROADCASTING THE SEED. SEED SHOULD BE APPLIED EVENLY BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED TO BE USED AND THE LOCATION OF THE TEMPORARY SEEDING. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTIPACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER.

MULCHING

MULCH SHOULD BE USED IN ALL PERMANENTLY SEEDED AREAS TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING ESTABLISHMENT OF VEGETATION. THE MULCH SHOULD BE APPLIED EVENLY IN SUCH A MANNER THAT IT PROVIDES A MINIMUM OF 75% COVERAGE. TYPICAL MULCH APPLICATIONS INCLUDE STRAW, WOOD FIBERS, COMPOST MUCH OR HYDRO-MULCHES. THE MOST COMMONLY ACCEPTED MULCH USED IN CONJUNCTION WITH TEMPORARY SEEDING IS SMALL GRAIN STRAW. THIS STRAW SHOULD BE DRY AND FREE FROM MOLD DAMAGE AND NOXIOUS WEEDS. THE STRAW MAY NEED TO BE ANCHORED WITH NETTING OR EMULSIONS TO PREVENT IT FROM BEING BLOWN OR WASHED AWAY. THE STRAW MULCH MAY BE APPLIED BY HAND OR MACHINE AT THE RATE 1.5 - 2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.

IRRIGATION

SEEDED AREAS SHOULD BE KEPT ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

RE-SEEDING

AREAS WHERE THE PLANTS DO NOT GROW QUICKLY, THICK ENOUGH, OR ADEQUATELY TO PREVENT EROSION SHOULD BE RE-SEEDED WITH TEMPORARY GRASSES AS SOON AS SUCH AREAS ARE IDENTIFIED.

CERTIFICATION:

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

DEMOLITION AND SITE PREPARATION:

1. CONSTRUCTION LIMITS OF PROJECT ARE PROPERTY LINES AND RIGHT-OF-WAY LINES AND THE EXTENT OF WORK SHOWN ON THE PLANS, WHICHEVER IS LARGEST IN SCOPE. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO EXISTING BUILDINGS AND STRUCTURES CAUSED BY THE DEMOLITION AND/OR CONSTRUCTION PROCESS. THE DEMOLITION LINE AT THE PROJECT LIMITS SHALL BE A CLEAN, SAW CUT LINE WITHOUT IRREGULARITIES. THE TOWN AND/OR ENGINEER SHALL APPROVE THE LINE PRIOR TO COMMENCEMENT OF DEMOLITION.
2. THE LIMIT OF DEMOLITION IS AS SHOWN ON THE DRAWINGS AND HAS BEEN LOCATED TO PROVIDE SUFFICIENT AREA FOR INSTALLING THE NEW WORK. ANY DEMOLITION THAT OCCURS OUTSIDE THESE LIMITS WILL BE AT THE CONTRACTORS EXPENSE UNLESS APPROVAL HAS BEEN GRANTED BY THE OWNER.
3. ALL EXISTING ITEMS DESIGNATED TO BE REMOVED AND SALVAGED, SUCH AS SIGNS, DRAINAGE, GRATES, WHEEL STOPS, ETC., SHALL BE DELIVERED TO THE TOWN OF WHITMIRE'S DESIGNATED STORAGE YARD FACILITY, AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATING SERVICE AT 1.800.922.0983 AND THE TOWN OF WHITMIRE PUBLIC WORKS DEPARTMENT AT 1.803.694.2356 BEFORE EXCAVATING AS REQUIRED BY THE SUPPLEMENTAL CONDITIONS AND SOUTH CAROLINA LAW.
5. DISPOSAL OF MATERIALS OFF-SITE AND HAULING OF FILL MATERIAL THAT IS REQUIRED FOR CONSTRUCTION SHALL BE FULL RESPONSIBILITY OF CONTRACTOR.
6. ANY AREAS DISTURBED BY CONSTRUCTION NOT COVERED BY NEW WORK SHALL BE PLACED IN PERMANENT GRASS SOD AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL COMPLETELY DEMOLISH, REMOVE, AND DISPOSE OF PAVEMENT, CURB, AND SIDEWALK AS NECESSARY TO INSTALL THE NEW WORK. THE LIMIT SHOWN ON THE DEMOLITION INDICATES THE SCOPE TO BE PAID BY UNIT PRICE IN THE CONTRACT. DEMOLITION AND REPLACEMENT BEYOND THE LIMIT SHALL BE AT THE CONTRACTORS EXPENSE UNLESS SPECIFICALLY APPROVED BY THE OWNER OR ENGINEER.
8. PAYMENT FOR DEMOLITION IS FOR REMOVAL OF ASPHALTIC, CONCRETE, OR OTHER HARD SURFACES. THE CONTRACTOR WILL NOT BE PAID FOR GRASS OR EARTH AREAS TO BE GRADED AND/OR REPLACED AS PART OF THE DEMOLITION.
9. BETWEEN SIGNALIZED INTERSECTIONS, NO SIDEWALK SHALL BE REMOVED FROM PEDESTRIAN SERVICE ON ONE SIDE OF THE STREET UNLESS THE SIDEWALK ON THE OPPOSITE SIDE IS OPEN AND REMAINS SO. CONTRACTOR SHALL INSURE PROPER SIGNAGE IS PLACE IN ADVANCE TO WARN PEDESTRIANS OF SIDEWALK CLOSURE AHEAD.

PERMANENT VEGETATION NOTES:

PLANT SELECTION

PLANT SEED SELECTION SHOULD BE BASED ON THE TYPE OF SOIL, THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE, AND THE NEEDS AND DESIRES OF THE PERMANENT LAND USER. TABLES 3 AND 4 SHOULD BE USED TO SELECT THE DESIRED SPECIES TO BE PLANTED. FAILURE TO CAREFULLY FOLLOW AGRONOMIC RECOMMENDATIONS OFTEN RESULT IN AN INADEQUATE STAND OF PERMANENT VEGETATION THAT PROVIDES LITTLE OR NO EROSION CONTROL. THE RATES IN TABLES 3 AND 4 ARE BASED ON PURITY AND GERMINATION STANDARDS REQUIRED FOR CERTIFICATION.

THE FOLLOWING NOTES APPLY TO TABLES 3 AND 4:

1. IN MIXTURES WITH TEMPORARY COVER, THE FULL SEEDING RATE OF PERMANENT COVER SHALL BE USED.
2. MIX MEANS TWO (2) OR MORE LONG TERM SPECIES PLUS SHORT TERM SPECIES. FOR DATES OTHER THAN OPTIMUM, CALL LEXINGTON SOIL AND WATER CONSERVATION DISTRICT.
3. A LEGUME, SUCH AS A CLOVER, CROWN VETCH, AND SERECIA SHOULD BE USED WHERE IT IS POSSIBLE.
4. THE APPROPRIATE INOCULANTS SHOULD BE USED.

TOPSOIL

IF THE SURFACE SOIL OF THE SEEDBED IS NOT ADEQUATE FOR PLANT GROWTH, TOPSOIL SHOULD BE APPLIED.

TILLAGE

IF THE AREA HAS BEEN RECENTLY PLOWED, NO TILLAGE IS REQUIRED OTHER THAN RAKING OR SURFACE ROUGHENING TO BREAK ANY CRUST THAT HAS FORMED AND TO LEAVE A TEXTURED SURFACE. IF THE SOIL IS COMPACTED LESS THAN 6-INCHES, IT SHOULD BE DISKED FOR OPTIMAL GERMINATION. IF THE SOIL IS COMPACTED MORE THAN 6-INCHES, IT SHOULD BE SUB-SOILED AND DISKED.

SOIL TESTING

INFORMATION AND TEST PROVIDER IS AVAILABLE FROM THE SOIL AND WATER CONSERVATION DISTRICT OFFICE.

LIME

UNLESS A SPECIFIC SOIL TEST INDICATES OTHERWISE, APPLY 1½ TONS OF GROUND COURSE TEXTURED AGRICULTURAL LIMESTONE PER ACRE (70 POUNDS PER 1000 SQUARE FEET).

FERTILIZER

A MINIMUM OF 1000 POUNDS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (23 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT SHOULD BE APPLIED DURING PERMANENT SEEDING OF GRASSES UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. FERTILIZER AND LIME (IF USED) SHOULD BE INCORPORATED INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW. DO NOT MIX THE LIME AND THE FERTILIZER PRIOR TO THE FIELD APPLICATION.

SEEDING

THE SURFACE OF THE SOIL SHOULD BE LOOSENED JUST BEFORE BROADCASTING THE SEED. SEED SHOULD BE EVENLY APPLIED BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED TO BE APPLIED. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTIPACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN OR BRUSH MAT, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTIPACKER. DO NOT ROLL SEED THAT IS APPLIED WITH A HYDRO-SEEDER AND HYDRO-MULCH.

MULCHING

ALL PERMANENT SEEDED AREAS SHOULD BE COVERED WITH MULCH IMMEDIATELY UPON COMPLETION OF THE SEEDING APPLICATION TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING ESTABLISHMENT OF VEGETATION. 93 THE MULCH SHOULD BE APPLIED EVENLY IN SUCH A MANNER THAT IT PROVIDES A MINIMUM OF 75% COVERAGE. TYPICAL MULCH APPLICATIONS INCLUDE STRAW, WOOD FIBER, AND COMPOST MULCH. THE MOST COMMONLY ACCEPTED MULCH USED IN CONJUNCTION WITH PERMANENT SEEDING IS SMALL GRAIN STRAW. THIS STRAW SHOULD BE DRY AND FREE FROM MOLD DAMAGE AND NOXIOUS WEEDS. THE STRAW MAY NEED TO BE ANCHORED WITH NETTING OR ASPHALT EMULSIONS TO PREVENT IT FROM BEING BLOWN OR WASHED AWAY. THE STRAW MULCH MAY BE APPLIED BY HAND OR MACHINE AT THE RATE 2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.

IRRIGATION

PERMANENT SEEDED AREAS SHOULD BE KEPT ADEQUATELY MOIST, ESPECIALLY LATE IN THE SPECIFIC GROWING SEASON. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.

RE-SEEDING

INSPECT PERMANENTLY SEEDED AREAS FOR FAILURE, MAKE NECESSARY REPAIRS AND RE-SEED OR OVERSEED WITHIN THE SAME GROWING SEASON IF POSSIBLE. IF THE GRASS COVER IS SPARSE OR PATCHY, RE-EVALUATE THE CHOICE OF GRASS AND QUANTITIES OF LIME AND FERTILIZER APPLIED. IF THE PERMANENT SEEDING HAS LESS THAN 40% COVER, HAVE THE SOIL TESTED TO DETERMINE ANY ACIDITY OR NUTRIENT DEFICIENCY PROBLEMS.

FINAL STABILIZATION BY PERMANENT SEEDING OF THE SITE REQUIRES THAT IT BE COVERED BY A 70% COVERAGE RATE.

POST-STABILIZATION

ONCE AREAS ARE STABILIZED THEY CAN BE CONVERTED TO NATIVE SPECIES OR FOR ESTABLISHING ON NON-CRITICAL, LEVEL SITES. TABLE 5 LISTS SOME NATIVE SPECIES OF FLORENCE COUNTY THAT CAN BE USED.

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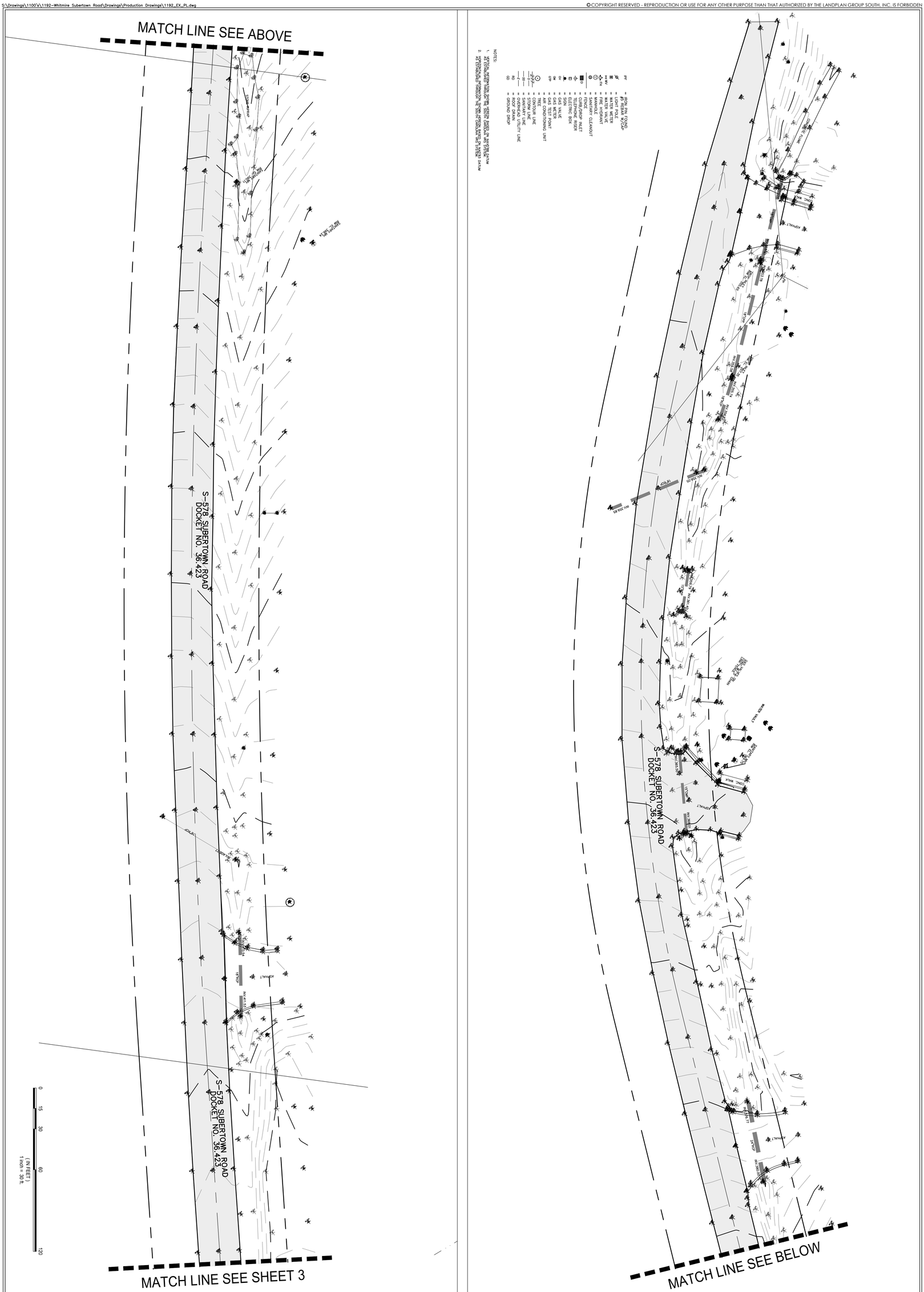
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SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
GENERAL NOTES

JOB #: 1192
SCALE: AS SHOWN
SHEET: 2 OF 20

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JOB #: 1192
SCALE: 1" = 20'
SHEET: 3 OF 20

SUBERTOWN RD/GARY ST SIDEWALK PROJECT

BID PLAN SET

WHITMIRE, SC NEWBERRY COUNTY

EXISTING CONDITIONS

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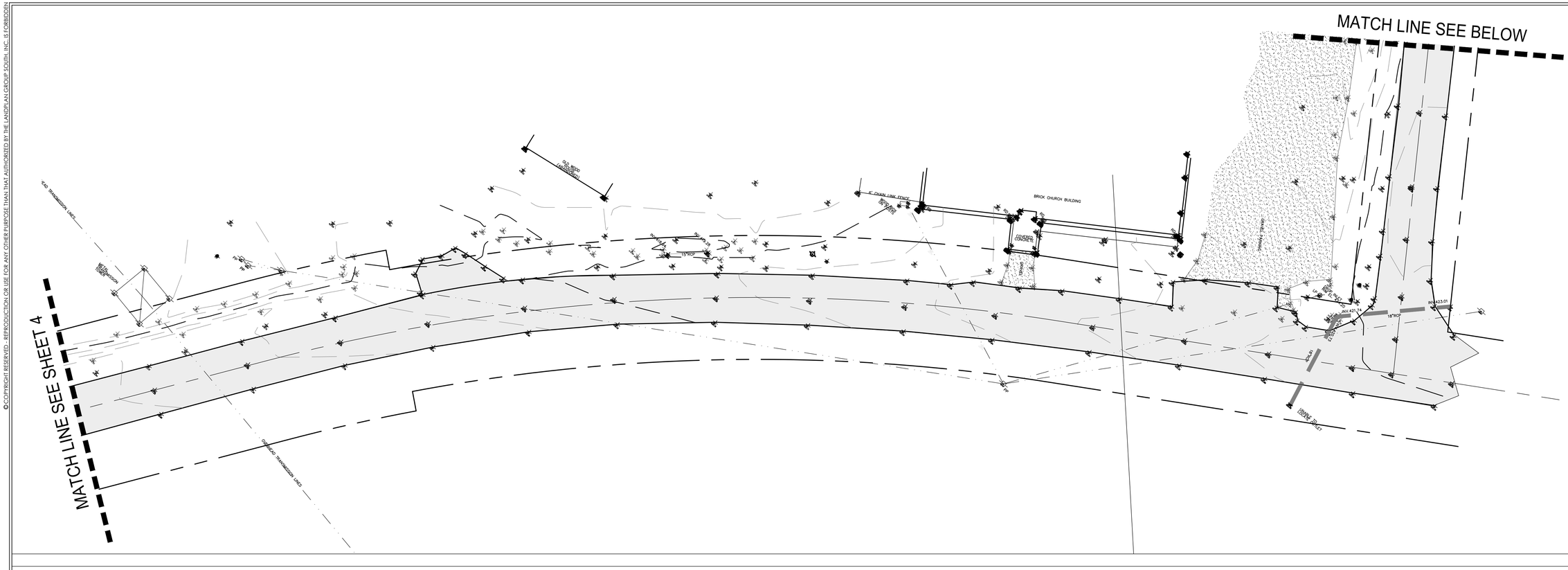
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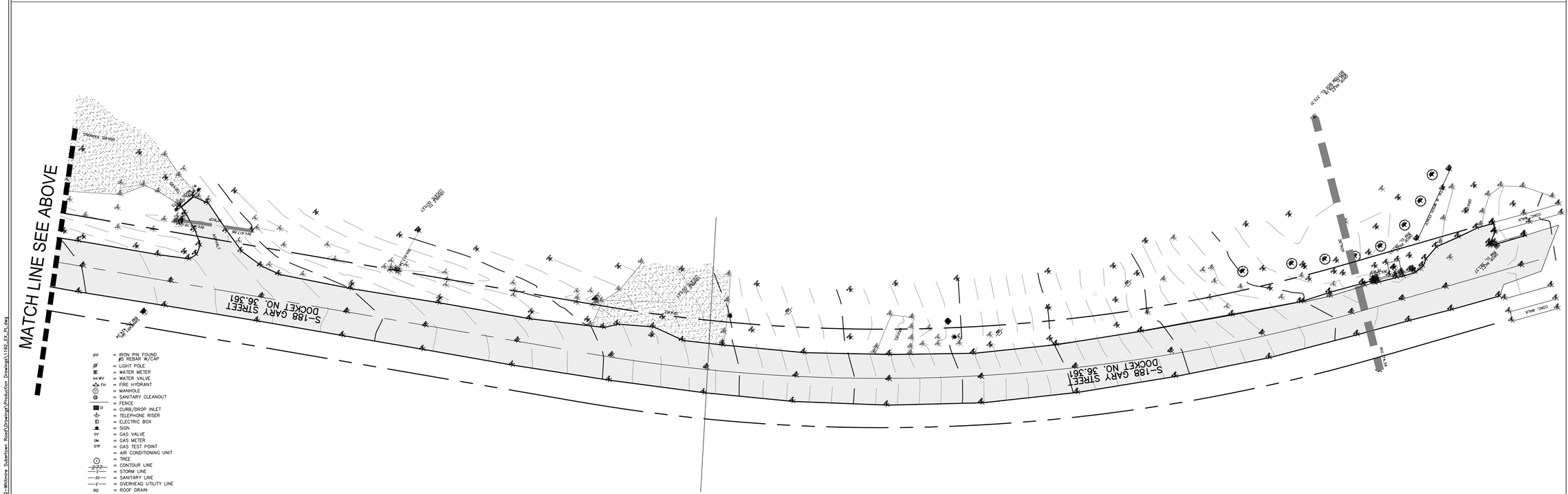
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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRIS JAMES

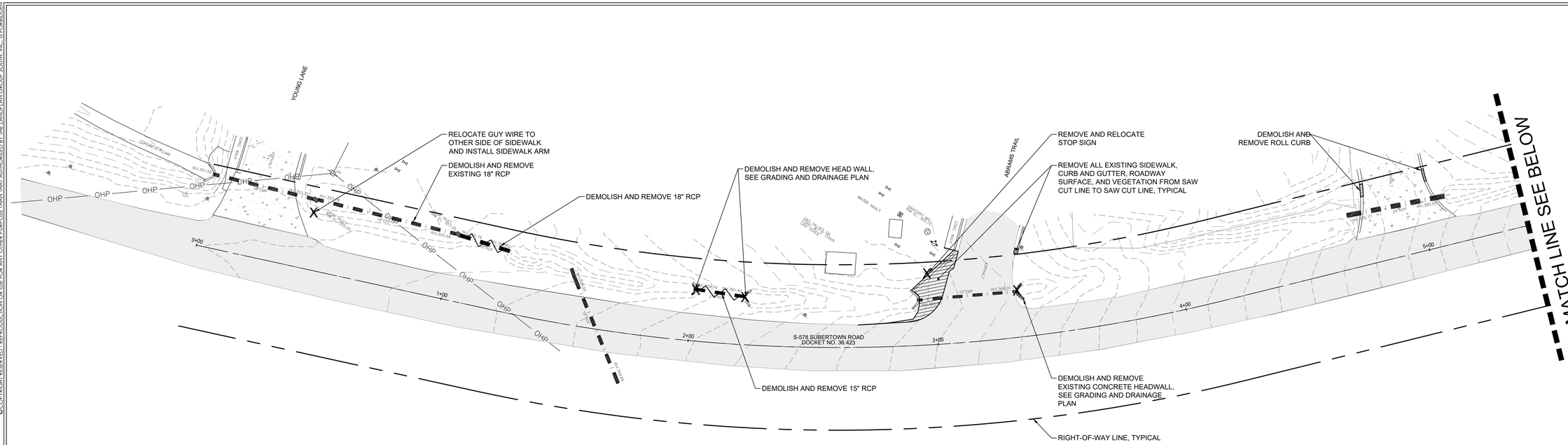
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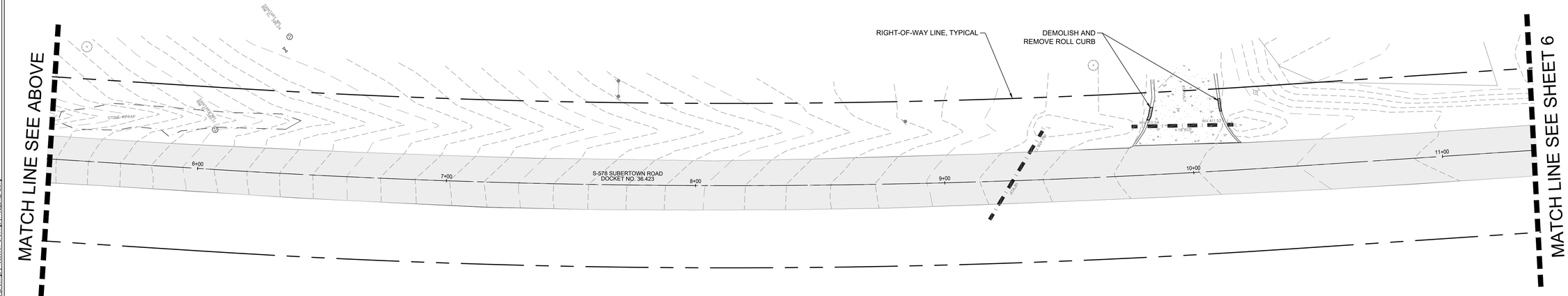
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
EXISTING CONDITIONS

JOB #: 1192
SCALE: 1" = 20'
SHEET: 4 OF 20

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0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 41867 CHRISTOPHER A. JAMES

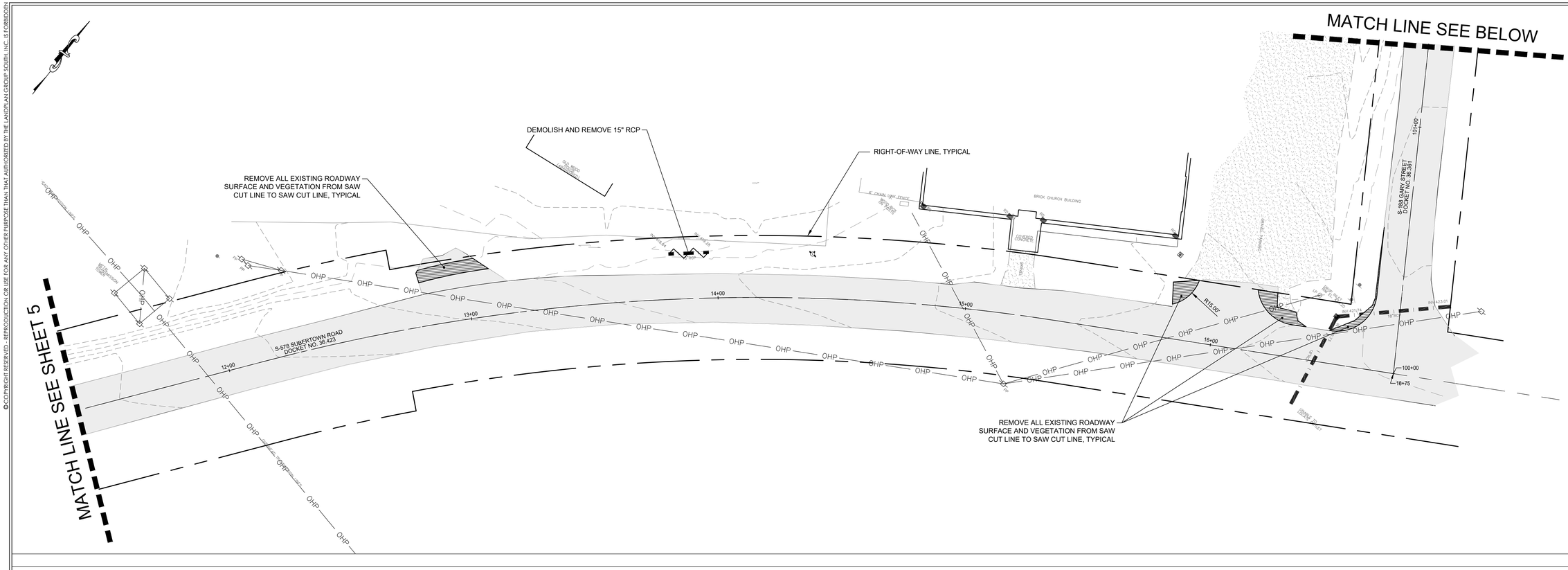
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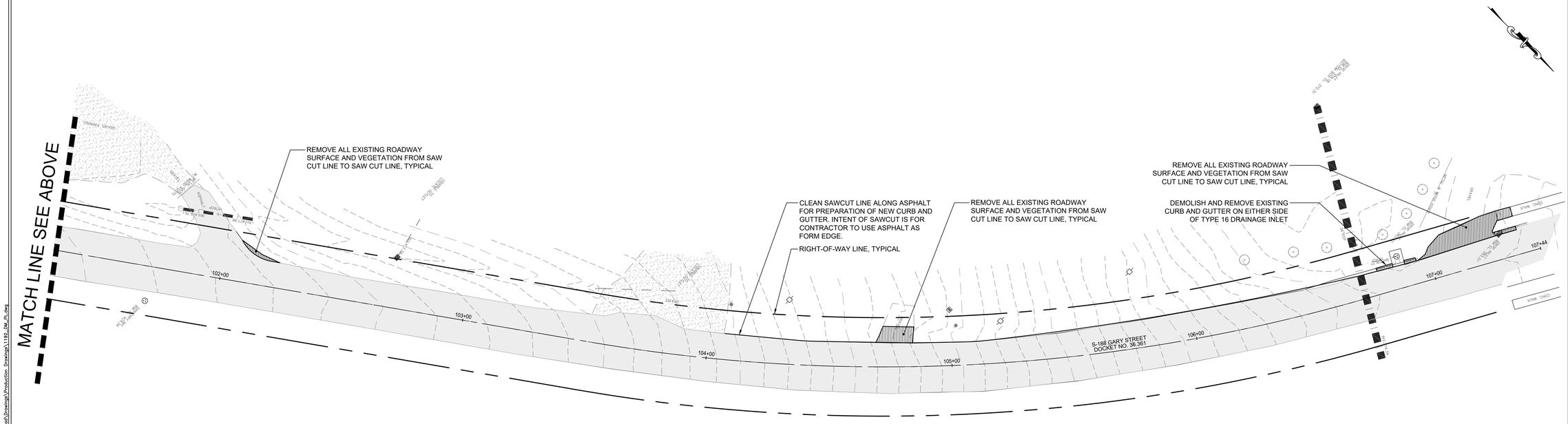
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DEMOLITION PLAN

JOB #: 1192
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SHEET: 5 OF 20

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRISTOPHER A. JAMES LICENSED

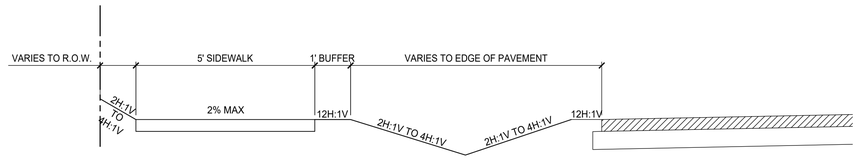
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SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DEMOLITION PLAN

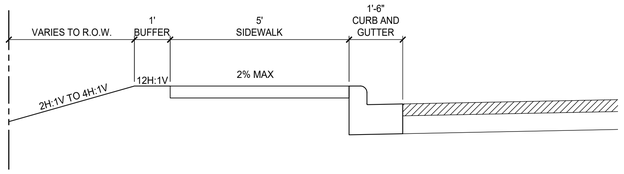
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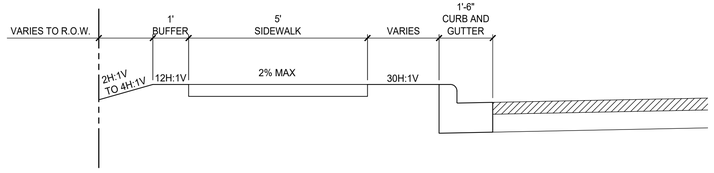
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SUBERTOWN ROAD
TYPICAL SIDEWALK SECTION A
STATION 00+33 TO 15+89



GARY STREET
TYPICAL SIDEWALK SECTION B
STATION 100+20 TO 106+19



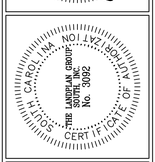
PORTION OF GARY STREET AND SUBERTOWN ROAD
TYPICAL SIDEWALK SECTION C
GARY STREET STATION 106+19 TO 107+37
SUBERTOWN ROAD STATION 16+17 TO 16+54

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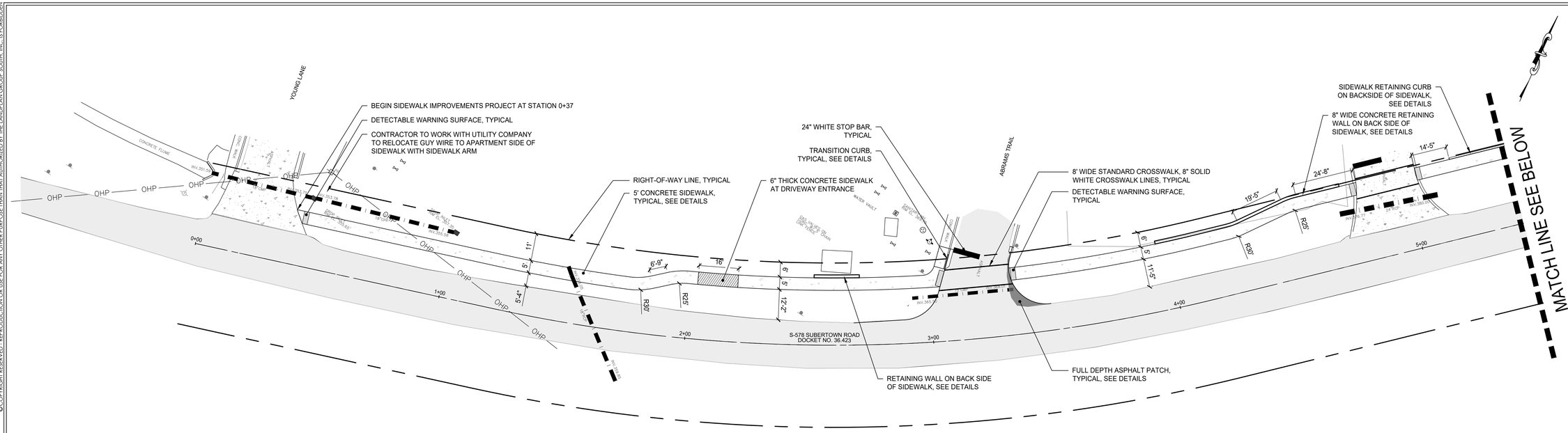
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BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY

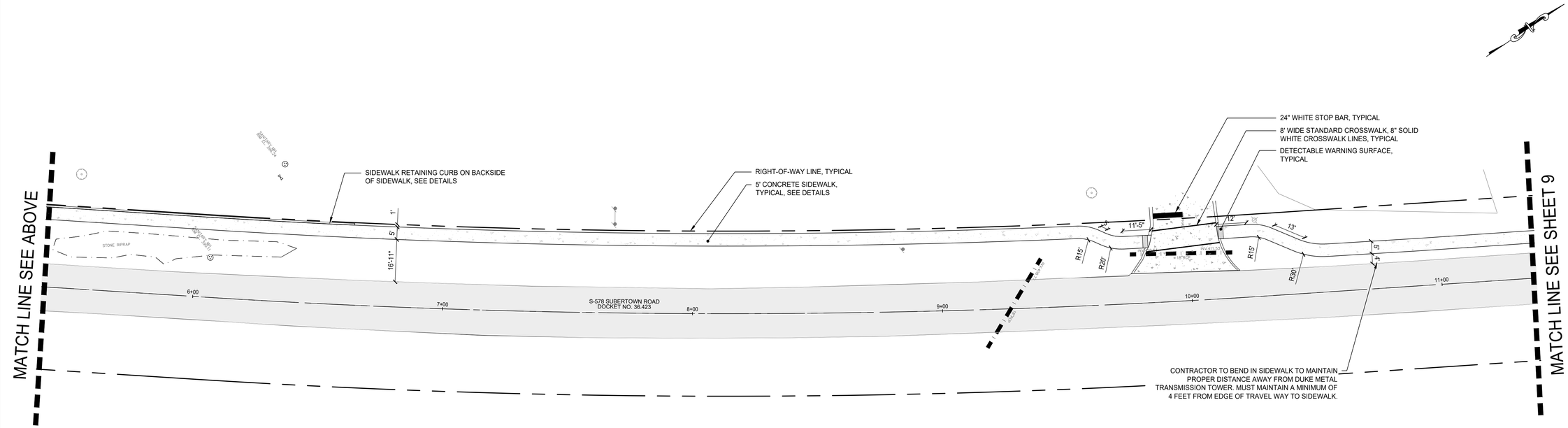
SIDEWALK TYPICAL SECTIONS

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SCALE: N.T.S.
SHEET: 7 OF 20

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NOTES:
1. SIDEWALK SHALL HAVE A MINIMUM OF ONE-PERCENT (1%) CROSS SLOPE TO ASSURE POSITIVE DRAINAGE TOWARDS THE ROAD. IF POSITIVE DRAINAGE IS NOT ACHIEVED BASED ON EXISTING CONDITIONS, INFORM THE ENGINEER IMMEDIATELY.
2. SIDEWALK SLOPE SHALL BE LESS THAN OR EQUAL TO THE EXISTING SLOPE OF THE ROADWAY TO MEET ADA GRADE REQUIREMENTS.
3. MAXIMUM CROSS SLOPE SHALL BE TWO-PERCENT (2%) UNLESS WHERE SPECIFICALLY SHOWN.

0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRISTOPHER W. JAMES

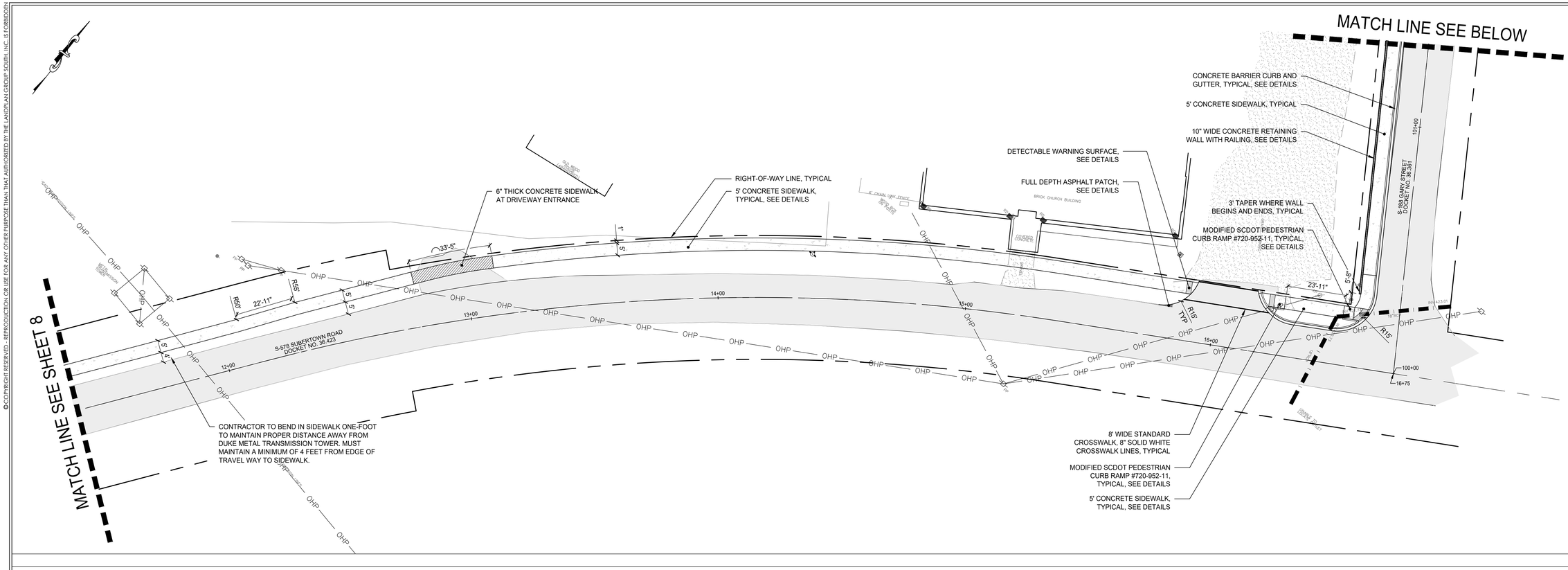
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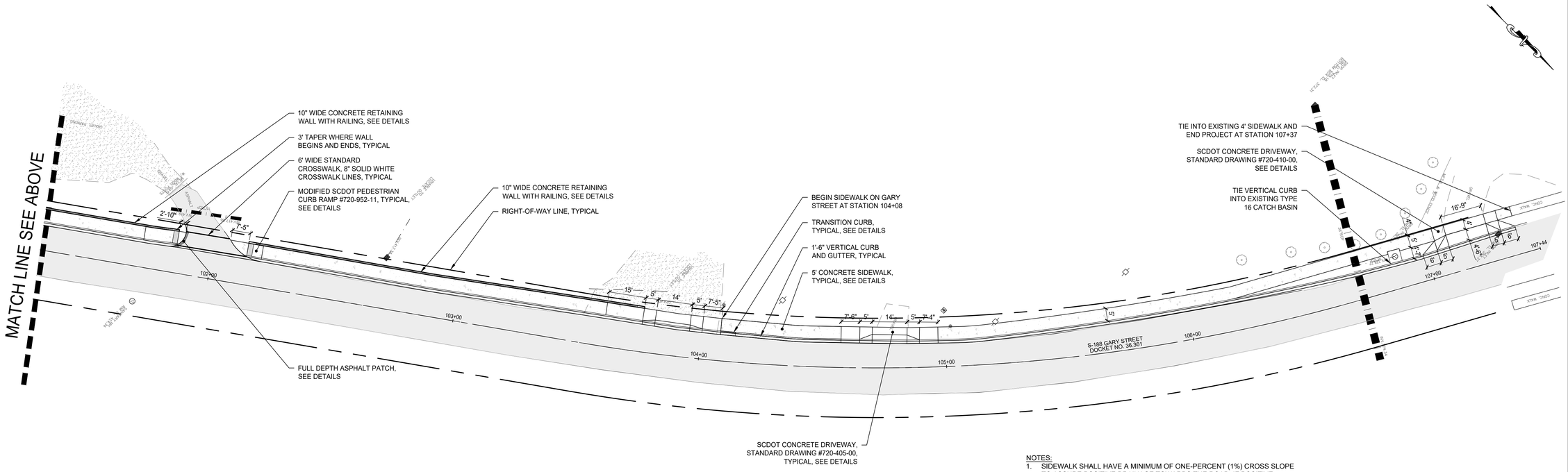
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
LAYOUT PLAN

JOB #: 1192
SCALE: 1" = 20'
SHEET: 8 OF 20

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NOTES:
1. SIDEWALK SHALL HAVE A MINIMUM OF ONE-PERCENT (1%) CROSS SLOPE TO ASSURE POSITIVE DRAINAGE TOWARDS THE ROAD. IF POSITIVE DRAINAGE IS NOT ACHIEVED BASED ON EXISTING CONDITIONS, INFORM THE ENGINEER IMMEDIATELY.
2. SIDEWALK SLOPE SHALL BE LESS THAN OR EQUAL TO THE EXISTING SLOPE OF THE ROADWAY TO MEET ADA GRADE REQUIREMENTS.
3. MAXIMUM CROSS SLOPE SHALL BE TWO-PERCENT (2%) UNLESS WHERE SPECIFICALLY SHOWN.

0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRISTOPHER WILLIAM HOLT JAMES

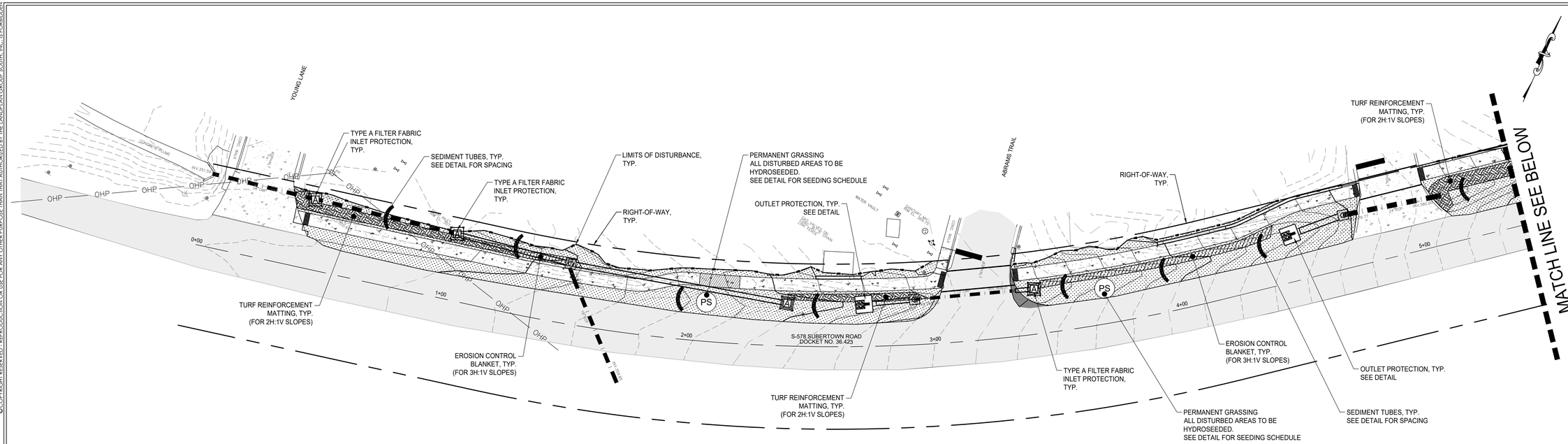
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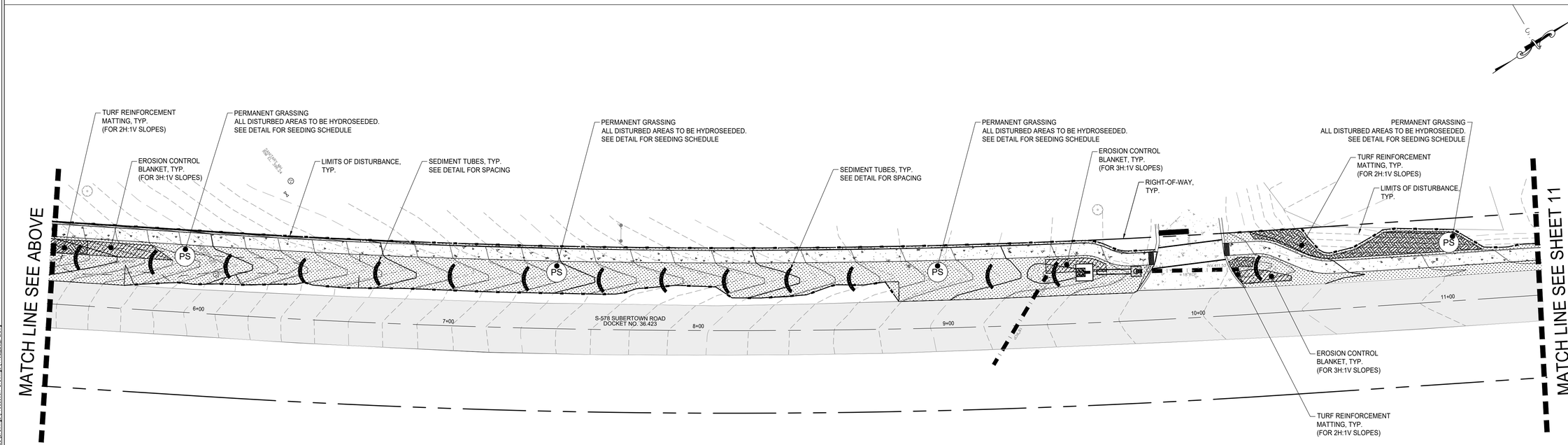
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
LAYOUT PLAN

JOB #: 1192
SCALE: 1" = 20'
SHEET: 9 OF 20

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NOTES:
1. CONTRACTOR TO FOLLOW ALL EROSION CONTROL DETAILS, NOTES, AND SPECIFICATIONS THROUGHOUT THE DURATION OF THE PROJECT.
2. SILT FENCE IS SHOWN FOR GENERAL INFORMATION PURPOSES ONLY.
3. CONTRACTOR TO INSTALL SILT FENCE IN ALL AREAS WHERE SLOPE FALLS AWAY FROM SIDEWALK/ROADWAY AND TOWARDS ADJACENT PROPERTY.

0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRIS JAMES

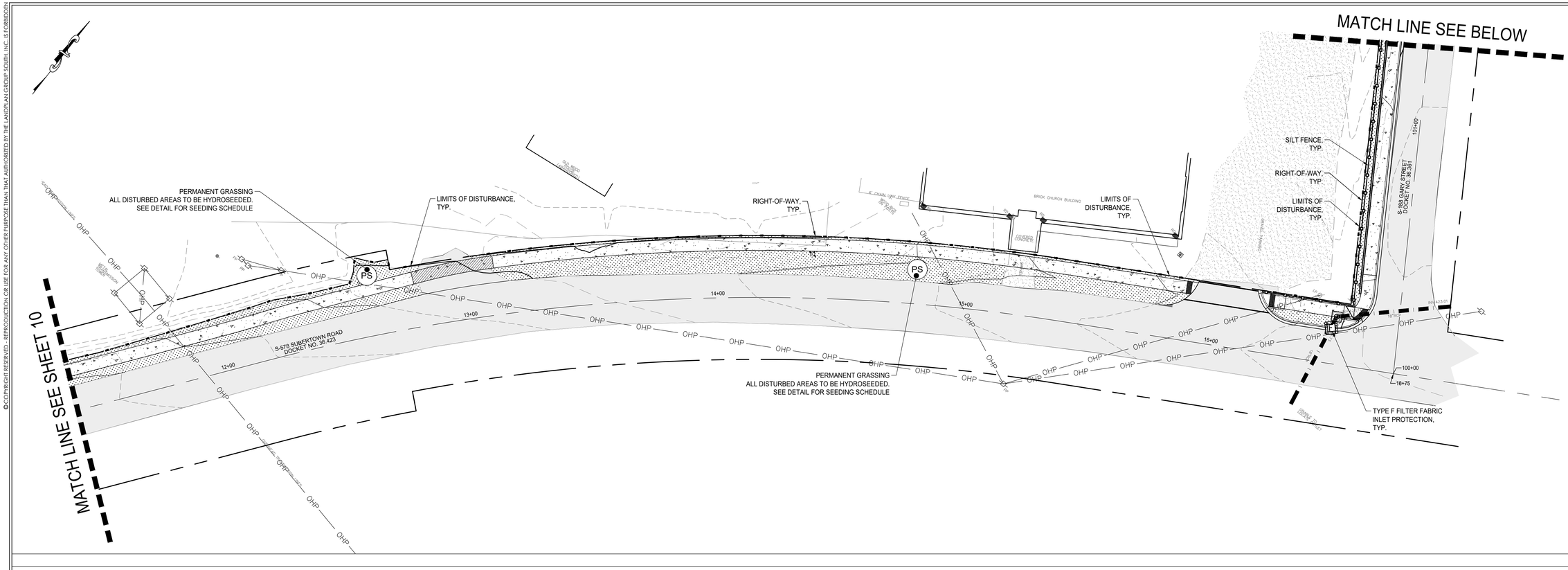
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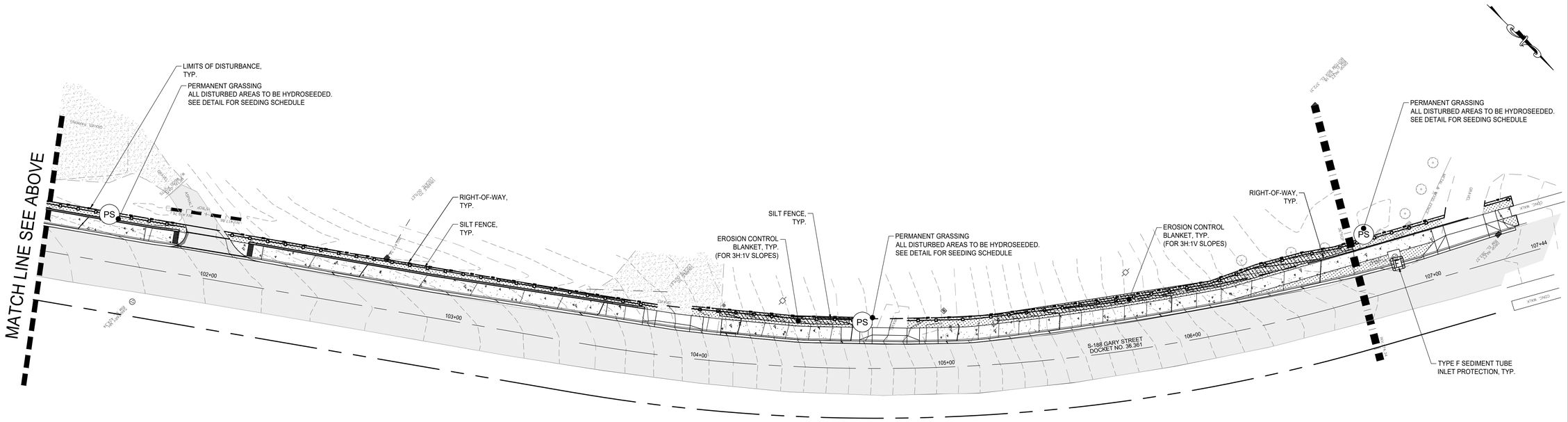
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
EROSION CONTROL PLAN

JOB #: 1192
SCALE: 1" = 20'
SHEET: 10 OF 20

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(IN FEET)
1 inch = 20 ft.

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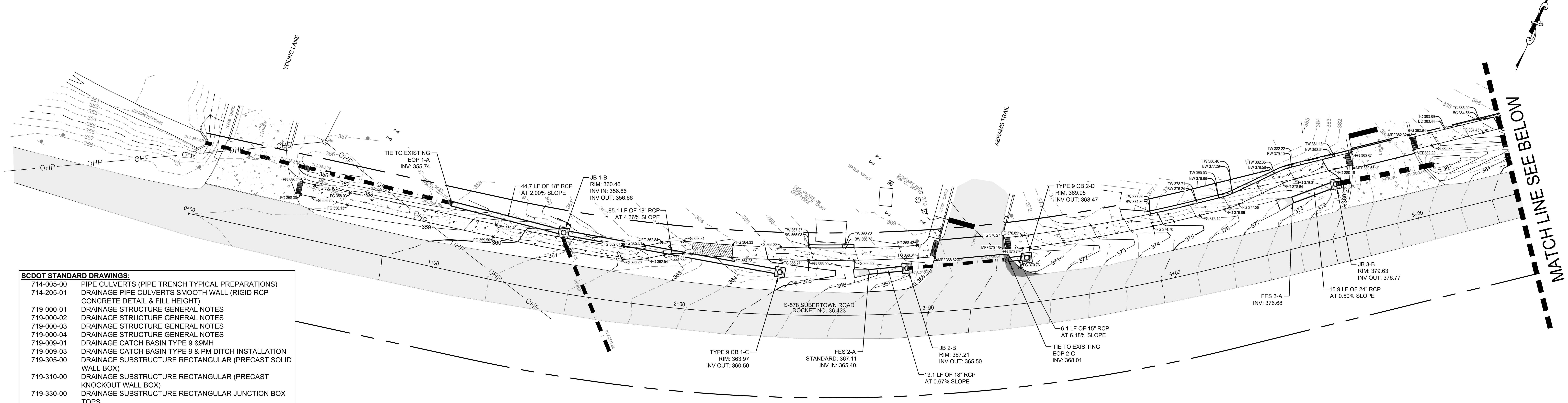
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRISTOPHER W. JAMES LICENSED

SOUTH CAROLINA LANDSCAPE ARCHITECTURE CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
EROSION CONTROL PLAN

JOB #: 1192
SCALE: 1" = 20'
SHEET: 11 OF 20

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SCDOT STANDARD DRAWINGS:

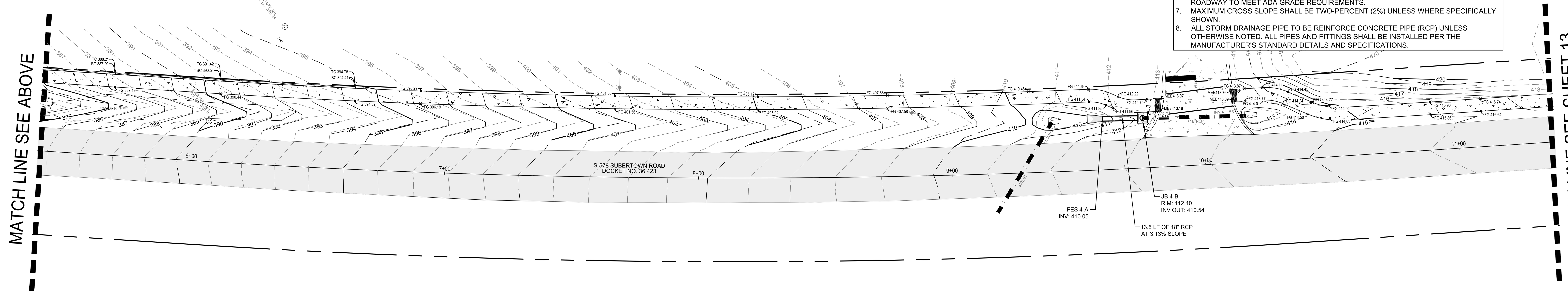
714-005-00	PIPE CULVERTS (PIPE TRENCH TYPICAL PREPARATIONS)
714-205-01	DRAINAGE PIPE CULVERTS SMOOTH WALL (RIGID RCP CONCRETE DETAIL & FILL HEIGHT)
719-000-01	DRAINAGE STRUCTURE GENERAL NOTES
719-000-02	DRAINAGE STRUCTURE GENERAL NOTES
719-000-03	DRAINAGE STRUCTURE GENERAL NOTES
719-000-04	DRAINAGE STRUCTURE GENERAL NOTES
719-009-01	DRAINAGE CATCH BASIN TYPE 9 &9MH
719-009-03	DRAINAGE CATCH BASIN TYPE 9 & PM DITCH INSTALLATION
719-305-00	DRAINAGE SUBSTRUCTURE RECTANGULAR (PRECAST SOLID WALL BOX)
719-310-00	DRAINAGE SUBSTRUCTURE RECTANGULAR (PRECAST KNOCKOUT WALL BOX)
719-330-00	DRAINAGE SUBSTRUCTURE RECTANGULAR JUNCTION BOX TOPS
719-610-00	END TREATMENT (RCP BEVELED END)
720-105-01	CURB & GUTTER (CONCRETE)
720-105-02	CURB & GUTTER (CONCRETE) TRANSITION CURB AND 3" CURB AND GUTTER
720-150-00	SIDEWALK ADJACENT TO CURB
720-155-00	SIDEWALK WITH GRASS STRIP ADJACENT TO CURB
720-405-00	DRIVEWAY WITH SIDEWALK ADJACENT TO CURB
720-410-00	DRIVEWAY WITH SEPARATED SIDEWALK WITHIN 7' - 4 3/4" OF CURB
720-901-01	PEDESTRIAN RAMP GENERAL NOTES & DEFINITIONS
720-901-02	PEDESTRIAN RAMP GENERAL NOTES & DEFINITIONS
720-901-03	PEDESTRIAN RAMP GENERAL NOTES & DEFINITIONS

ABBREVIATIONS:

- "JB" JUNCTION BOX
- "CB" CATCH BASIN
- "FES" FLARED END SECTION
- "FG" FINISHED GRADE
- "EG" EXISTING GRADE
- "MEE" MATCH EXISTING ELEVATION
- "BC" BOTTOM OF CURB
- "TC" TOP OF CURB
- "BW" BOTTOM OF WALL
- "TW" TOP OF WALL

GRADING AND DRAINAGE NOTES:

1. ALL EROSION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING CONDITIONS.
2. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CIVIL ENGINEER.
3. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATION COMPANY AND LOCATE ALL UNDERGROUND UTILITIES PRIOR TO START OF LAND DISTURBANCE ACTIVES.
4. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ENSURE NO CONFLICT EXIST WITH PROPOSED IMPROVEMENTS. NOTIFY ENGINEER IMMEDIATELY IF UTILITIES ARE LOCATED DIFFERENTLY THAN SHOWN.
5. SIDEWALK SHALL HAVE A MINIMUM OF ONE-PERCENT (1%) CROSS SLOPE TO ASSURE POSITIVE DRAINAGE TOWARDS THE ROAD. IF POSITIVE DRAINAGE IS NOT ACHIEVED BASED ON EXISTING CONDITIONS, INFORM THE ENGINEER IMMEDIATELY.
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0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41827 LICENSED COREY JAMES

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH, INC. No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
GRADING AND DRAINAGE

JOB #: 1192
SCALE: 1" = 20'
SHEET: 12 OF 20

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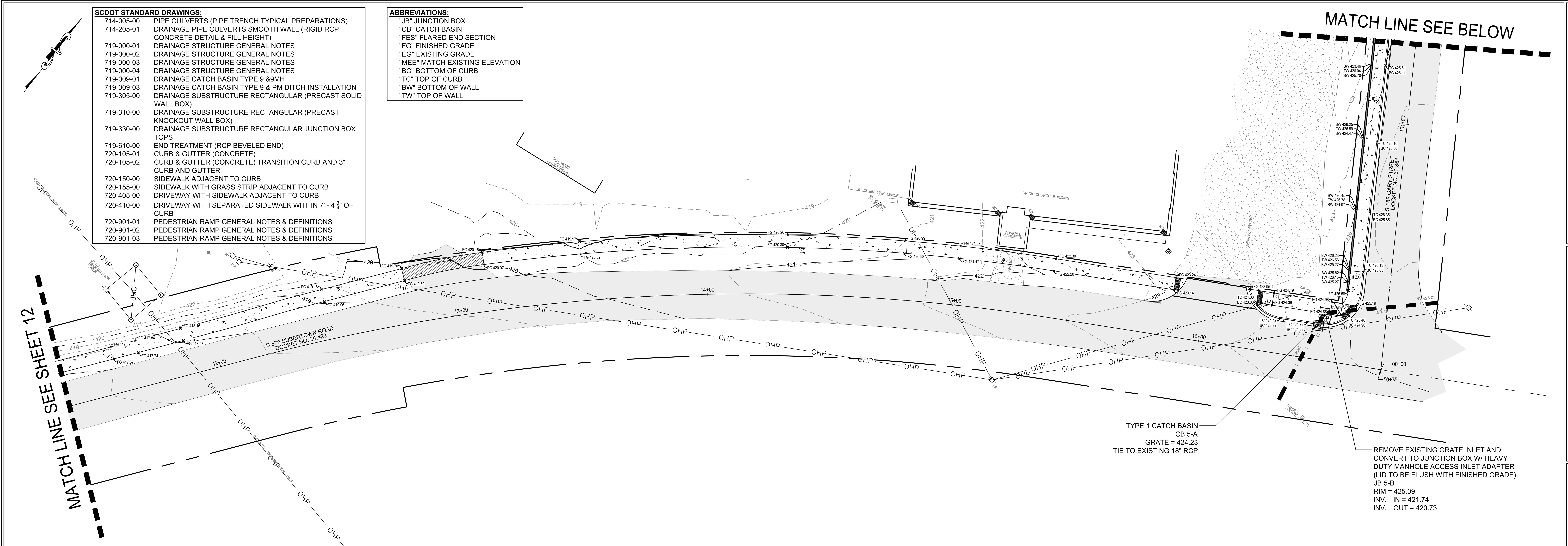
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SCDOT STANDARD DRAWINGS:

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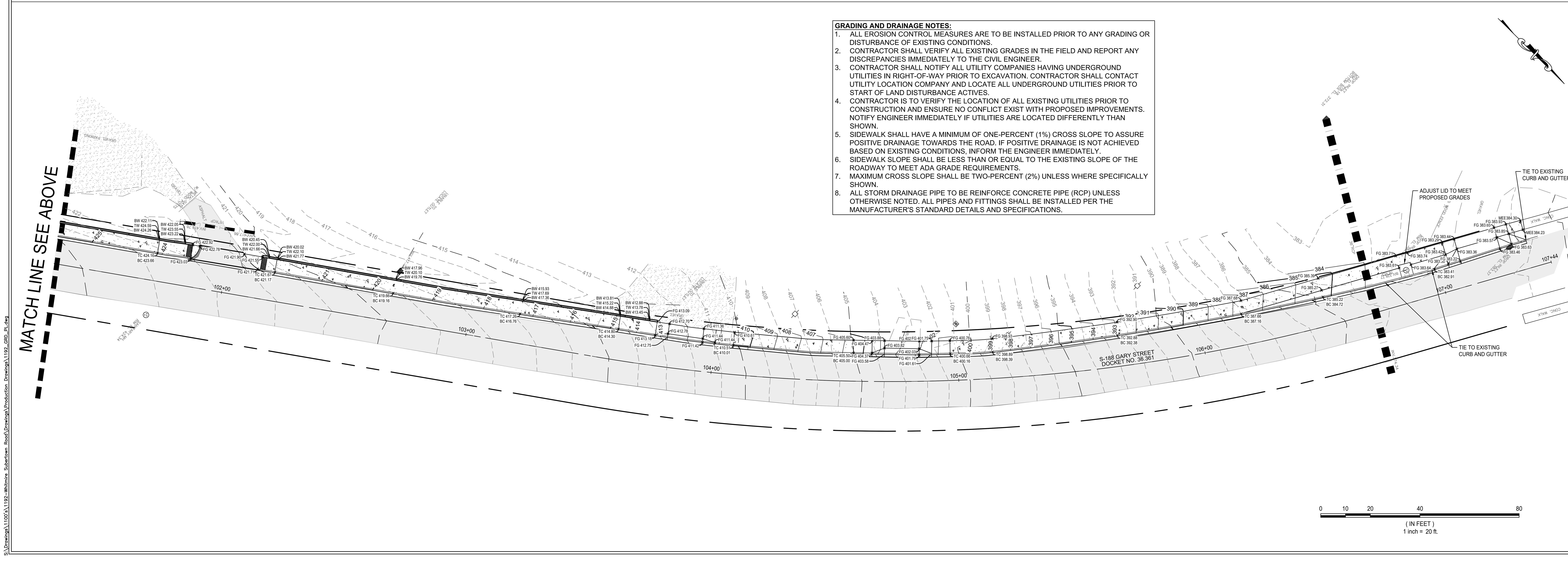
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0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 41827 COREY JAMES ...

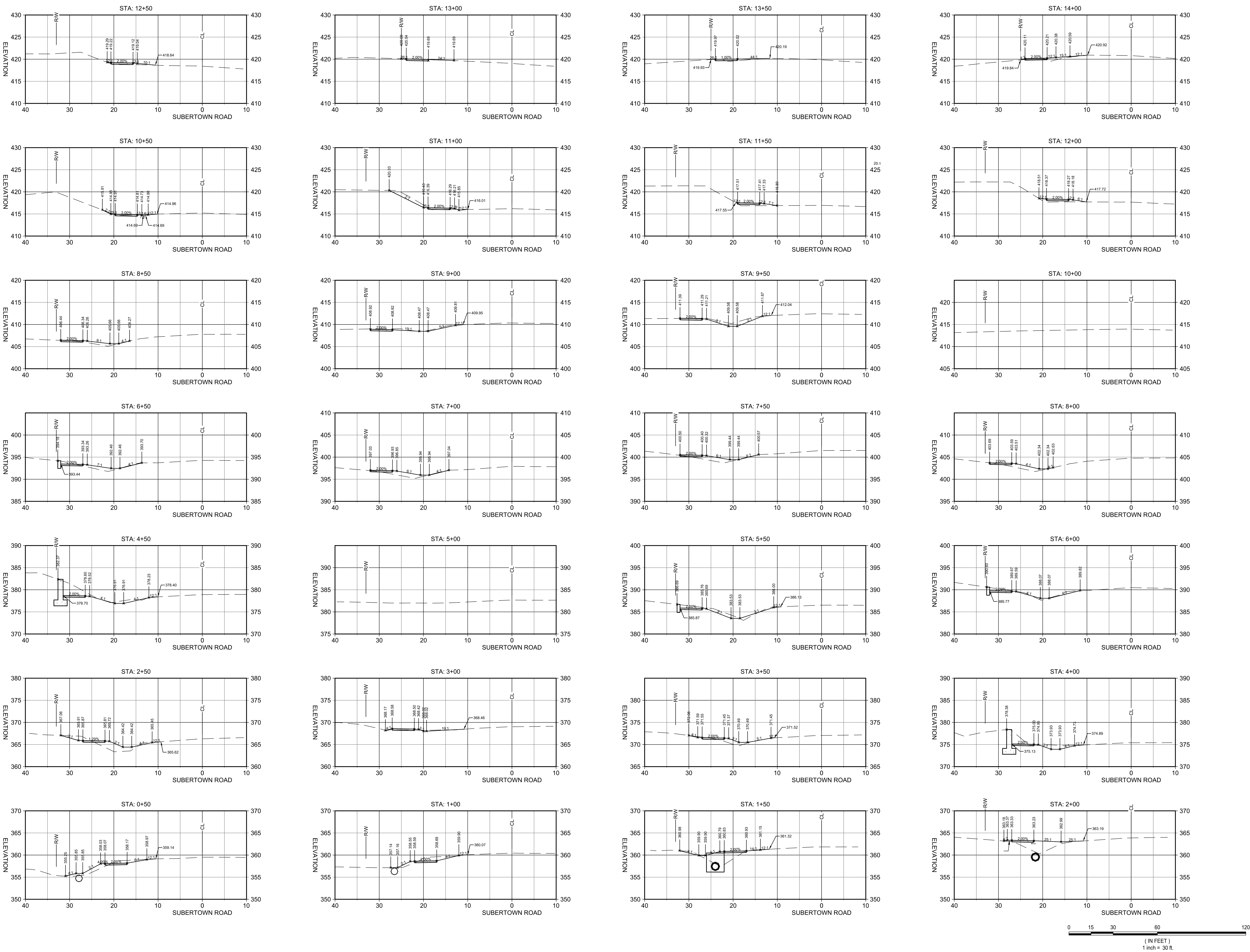
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH, INC. No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
GRADING AND DRAINAGE

JOB #: 1192
SCALE: 1" = 20'
SHEET: 13 OF 20

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SUBERTOWN RD/GARY ST SIDEWALK PROJECT

BID PLAN SET

WHITMIRE, SC NEWBERRY COUNTY

CROSS-SECTION

JOB #: 1192

SCALE: 1" = 10'

SHEET: 14 OF 20

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(IN FEET)
1 inch = 30 ft.

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41867 CHRISTOPHER JAMES KIRKLAND

SOUTH CAROLINA LANDSCAPE ARCHITECT No. 3092 CHRISTOPHER JAMES KIRKLAND
THE LANDPLAN GROUP SOUTH
CERTIFICATE OF AUTHORIZATION NO. LW2100

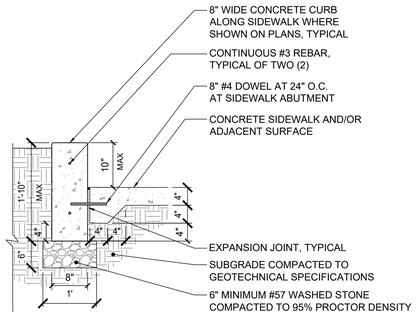
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
CROSS-SECTION

JOB #: 1192
SCALE: 1" = 10'
SHEET: 15 OF 20

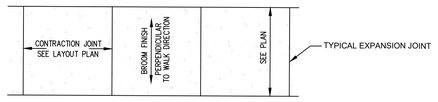
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NOTES:
1. CONTRACTOR TO PROVIDE SIDEWALK TURN DOWN PER BELOW DETAIL AT ALL LOCATIONS WITH SIDEWALK RETAINING CURB.
2. CONTRACTOR TO REFER TO LAYOUT PLAN AND GRADING PLAN FOR ADDITIONAL DETAILS.

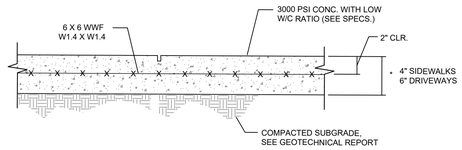


SIDEWALK RETAINING CURB AT SIDEWALK DETAIL
NOT TO SCALE



PLAN VIEW

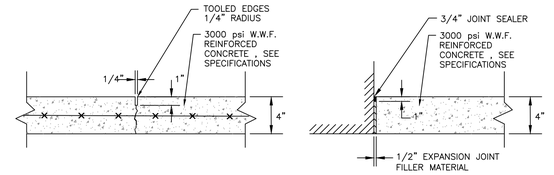
NOTE:
ALL JOINTS SHALL BE SAWN WITH ROUTER BLADE TO SIMULATE TOOLED JOINT.



SECTION VIEW

NOTES
1. SIDEWALK CROSS SLOPE BE NO STEEPER THAN 1:48 AND SHALL MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (SECTION 403.3).
2. EXPANSION JOINTS SHALL BE PROVIDED EVERY 30' IN ACCORDANCE WITH TYPICAL EXPANSION JOINT DETAIL.
3. ALL JOINTS SHALL BE SAWN WITH ROUTER BLADE TO SIMULATE TOOLED JOINT.

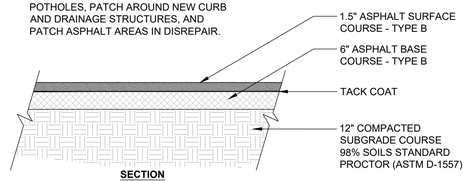
CONCRETE SIDEWALK DETAILS
NOT TO SCALE



NOTES:
1. PROVIDE JOINTS AT END OF POUR.
2. SEE LAYOUT PLAN FOR ALL SCORING AND PATTERNS. CONTACT LANDSCAPE ARCHITECT/ENGINEER WITH ANY QUESTIONS.
3. MAXIMUM DISTANCE BETWEEN CONTRACTION JOINTS IS 10'.
4. MAXIMUM DISTANCE BETWEEN CONTROL JOINT IS 30'.
5. W.W.F. TO HAVE MINIMUM OF 1 1/2" COVER.

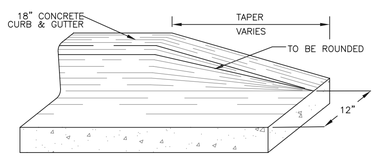
TYPICAL SIDEWALK AND JOINT DETAILS
NOT TO SCALE

NOTES:
1. ALL WORK TO BE PERFORMED BASED ON SCDOT STANDARDS FOR ASPHALT PAVEMENT AND RE-SURFACING.
2. PAVEMENT DESIGN TO BE VERIFIED BY CONTRACTOR TESTING.
3. FULL DEPTH PATCH TO BE USED TO FIX POTHOLES, PATCH AROUND NEW CURB AND DRAINAGE STRUCTURES, AND PATCH ASPHALT AREAS IN DISREPAIR.

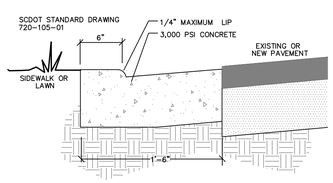


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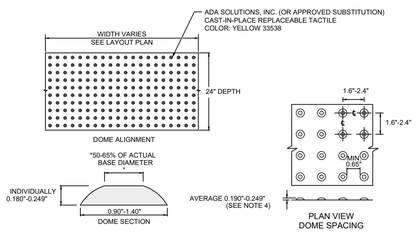
FULL DEPTH ASPHALT PATCH AS NEEDED
NOT TO SCALE



CURB TAPER DETAIL
NOT TO SCALE

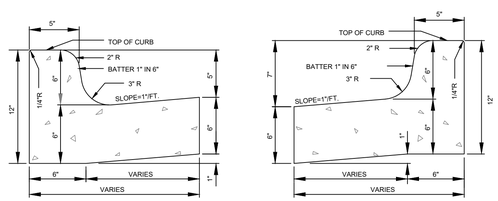


FLUSH CURB AND GUTTER DETAIL
NOT TO SCALE



NOTES:
1. DETECTABLE WARNING SURFACES SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
   (A) WHERE A SIDEWALK CROSSES A VEHICULAR WAY, EXCLUDING UN-SIGNALIZED DRIVEWAY CROSSINGS.
   (B) WHERE A RAIL SYSTEM CROSSES A PEDESTRIAN FACILITY THAT IS NOT SHARED WITH VEHICLES.
   (C) AT ISLANDS AND MEDIANS THAT ARE CUT THROUGH LEVEL WITH THE ROADWAY.
2. AT CURB RAMPS AND BLENDED TRANSITIONS, DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" MINIMUM AND 8" MAXIMUM DISTANCE FROM THE CURB LINE. THE SURFACE SHALL EXTEND A MINIMUM OF 24" ONTO THE RAMP IN THE DIRECTION OF TRAVEL FOR THE FULL WIDTH OF THE CURB RAMP.
3. AT RAIL CROSSINGS, THE DETECTABLE WARNING SURFACE SHALL BE 24" DEEP AND FULL WIDTH OF THE SIDEWALK. THE EDGE OF THE SURFACE NEAREST THE RAIL CROSSING IS 6" MINIMUM AND 8" MAXIMUM DISTANCE FROM THE VEHICLE DYNAMIC ENVELOPE (6' FROM THE NEAREST RAIL) UNLESS OTHERWISE NOTED BY THE RAILROAD.
4. DETECTABLE WARNING SURFACES SHALL CONSIST OF AN AREA OF TRUNCATED DOMES ALIGNED IN A SQUARE GRID PATTERN. THE BASE OF THESE DOMES SHALL BE 0.90"-1.40". THE TOP DIAMETER OF DOMES SHALL BE 50%-65% OF ACTUAL BASE DIAMETER, WITH A MINIMUM INDIVIDUAL HEIGHT OF 0.180" AND A MAXIMUM HEIGHT OF 0.249". THE AVERAGE OF TEN (10) INDIVIDUAL NODES PICKED AT RANDOM IN ANY SQUARE FOOT AREA SHALL BE 0.190"-0.249". THE DETECTABLE WARNING DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6-2.4".
5. WHEN DOMES IN ANY ONE FOOT SQUARE AREA WEAR TO AN AVERAGE HEIGHT BELOW 0.151", THE SURFACE IS TO BE REPLACED.
6. FOR ALL DETECTABLE WARNING SURFACES, THE DEPARTMENT'S DEFAULT COLOR IS SAFETY YELLOW (FEDERAL NUMBER 33538) UNLESS A SPECIFIC PROJECT REQUIRES ANOTHER COLOR. WHEN A COLOR OTHER THAN SAFETY YELLOW IS SELECTED FOR A PROJECT, THE COLOR SELECTED WILL CONTRAST EITHER LIGHT-ON-DARK OR DARK-ON LIGHT.
7. DETECTABLE WARNING SURFACE TO BE INSTALLED BY CONTRACTOR AT ALL LOCATIONS SHOWN ON LAYOUT PLAN AND AT EVERY ADA CURB RAMP.

CONCRETE SIDEWALK DETAILS
NOT TO SCALE



NOTES:
1. CURB AND GUTTER TO BE CONSTRUCTED IN 10-FOOT LENGTHS.
2. 1/2 INCH EXPANSION JOINT SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 100 FEET, AT THE ENDS AND MID-POINT OF RETURNS, AND AT ANY POINT WHERE THE NEW CURB AND GUTTER ABUTS OTHER CONCRETE STRUCTURES.
3. 5-FOOT LONG TRANSITIONS SHALL BE PROVIDED BETWEEN NORMAL GUTTER AND PITCHED GUTTER, UNLESS OTHERWISE NOTED ON THE PAVING PLANS.

BARRIER CURB AND GUTTER DETAIL
NOT TO SCALE

REFERENCES
NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

SOUTH CAROLINA PROFESSIONAL ENGINEER NO. 21242 JAMES W. KENDALL

SIGNATURE
10/30/2015
DATE

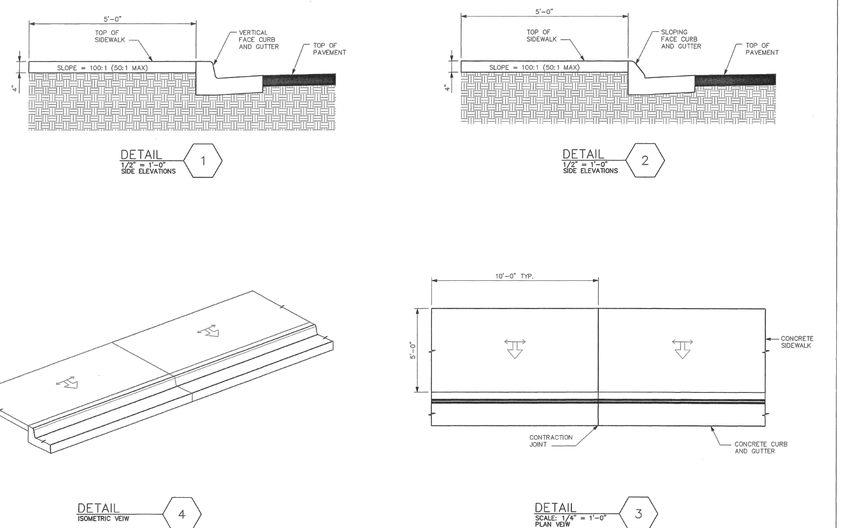
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0	1/2015	DSG	NEW DRAWING

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
SIDEWALK ADJACENT TO CURB

720-150-00
EFFECTIVE LETTING DATE: JAN., 2016

NOTES:
1 SEE DRAWING 720-105-01 FOR STANDARD CURB AND GUTTER DETAILS.
2 SEE DRAWING 720-901-03 FOR SYMBOLS AND CONSTRUCTION TOLERANCE.
3 PLACE TRANSVERSE EXPANSION JOINTS (FULL DEPTH ACROSS THE ENTIRE SIDEWALK WIDTH) WHEN NEAR TURNS IN THE SIDEWALK, AND IN LONG CONTINUOUS RUNS OF SIDEWALK AS DIRECTED IN THE STANDARD SPECIFICATIONS.
4 PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND THE BACK OF CURB WHEN ALONG A RADIUS LESS THAN 100'.
5 PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND ANY ADJACENT STRUCTURE (RETAINING WALLS, BUILDINGS, ETC.)
6 PLACE CONTRACTION JOINTS AT REGULAR INTERVALS BETWEEN EXPANSION JOINTS NOT TO EXCEED STANDARD SPECIFICATION SPACING.
7 MEASURE SIDEWALK IN SQUARE YARDS BY THE ACTUAL PLACED AREA OF CONCRETE UP TO THE ADJACENT PAY ITEM LIMITS (CURBS, PEDESTRIAN RAMPS, DRIVEWAYS, ETC.).



SCDOT - SIDEWALK ADJACENT TO CURB 720-150-00
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER No. 41867 JAMES W. KENDALL

THE LANDPLAN GROUP SOUTH LANDSCAPE ARCHITECTURE CERTIFICATE OF AUTHORIZATION No. 3932

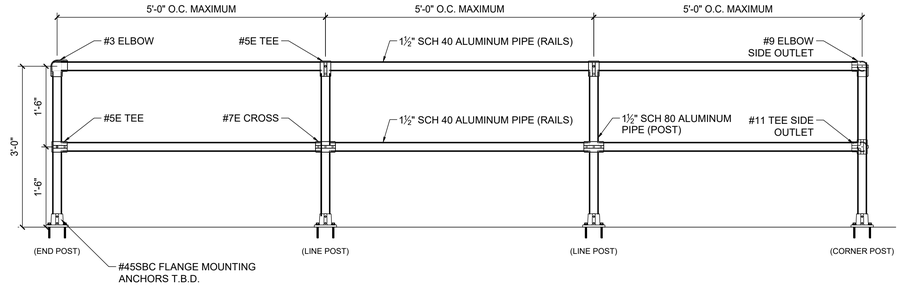
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DETAILS

JOB #: 1192
SCALE: AS SHOWN
SHEET: 16 OF 20

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NOTES:
1. BASIS OF DESIGN IS HOLLAENDER SPEED-RAIL 2 LINE TOP MOUNT, OR APPROVED SUBSTITUTION.
2. COLOR AND FINISH: ANODIZED
3. MOUNTING CONDITION: TOP MOUNT USING #45SBC FLANGE WITH FOUR (4) ⅜" STAINLESS STEEL SCREW ANCHOR WITH 3" MINIMUM EMBEDMENT, PROVIDED BY OTHERS. MINIMUM CONCRETE THICKNESS 4½".
4. CONTRACTOR TO FOLLOW ALL MANUFACTURER INSTALLATION SPECIFICATIONS.
5. CONTRACTOR TO CONTACT HOLLAENDER WITH ANY QUESTIONS REGARDING INSTALLATION.
6. SEE LAYOUT PLAN FOR LOCATION OF RAILING.
7. SEE DECORATIVE RAILING SPECIFICATION FOR ADDITIONAL DETAILS.



DECORATIVE METAL RAILING - GUARD RAIL

NOT TO SCALE

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS

RELATED DRAWINGS & KEYWORDS

THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
JAMES W. KENDALL
NO. 21242

James W Kendall
SIGNATURE

10/30/2015
DATE

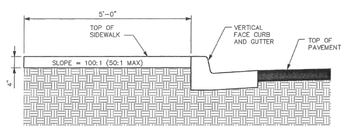
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0	1/2016	DSG	NEW DRAWING

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

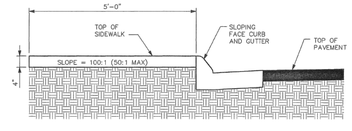
STANDARD DRAWING
SIDEWALK ADJACENT TO CURB

720-150-00
EFFECTIVE LETTING DATE: JAN., 2016

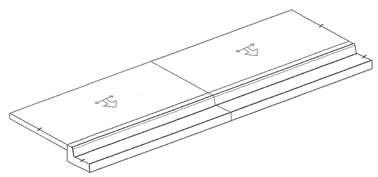
NOTES:
1 SEE DRAWING 720-105-01 FOR STANDARD CURB AND GUTTER DETAILS.
2 SEE DRAWING 720-801-03 FOR SYMBOLS AND CONSTRUCTION TOLERANCE.
3 PLACE TRANSVERSE EXPANSION JOINTS (FULL DEPTH ACROSS THE ENTIRE SIDEWALK WIDTH) WHEN NEAR TURNS IN THE SIDEWALK, AND IN LONG CONTINUOUS RUNS OF SIDEWALK AS DIRECTED IN THE STANDARD SPECIFICATIONS.
4 PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND THE BACK OF CURB WHEN ALONG A RADIUS LESS THAN 100'.
5 PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND ANY ADJACENT STRUCTURE (RETAINING WALLS, BUILDINGS, ETC.)
6 PLACE CONTRACTION JOINTS AT REGULAR INTERVALS BETWEEN EXPANSION JOINTS NOT TO EXCEED STANDARD SPECIFICATION SPACING.
7 MEASURE SIDEWALK IN SQUARE YARDS BY THE ACTUAL PLACED AREA OF CONCRETE UP TO THE ADJACENT PAY ITEM LIMITS (CURBS, PEDESTRIAN RAMPS, DRIVEWAYS, ETC.).



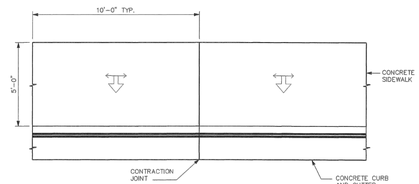
DETAIL 1 — 1/2" = 1'-0" — SIDE ELEVATIONS



DETAIL 2 — 1/2" = 1'-0" — SIDE ELEVATIONS



DETAIL 4 — ISOMETRIC VIEW



DETAIL 3 — SCALE: 1/4" = 1'-0" — PLAN VIEW

SCDOT - SIDEWALK ADJACENT TO CURB 720-150-00

NOT TO SCALE

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FILE NAME: 1192_DT_PL	CAL	CWH	09.24.26
	DWN.	CHKD.	DSGN.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 41867
CHRISTOPHER A. LEWIS JAMES

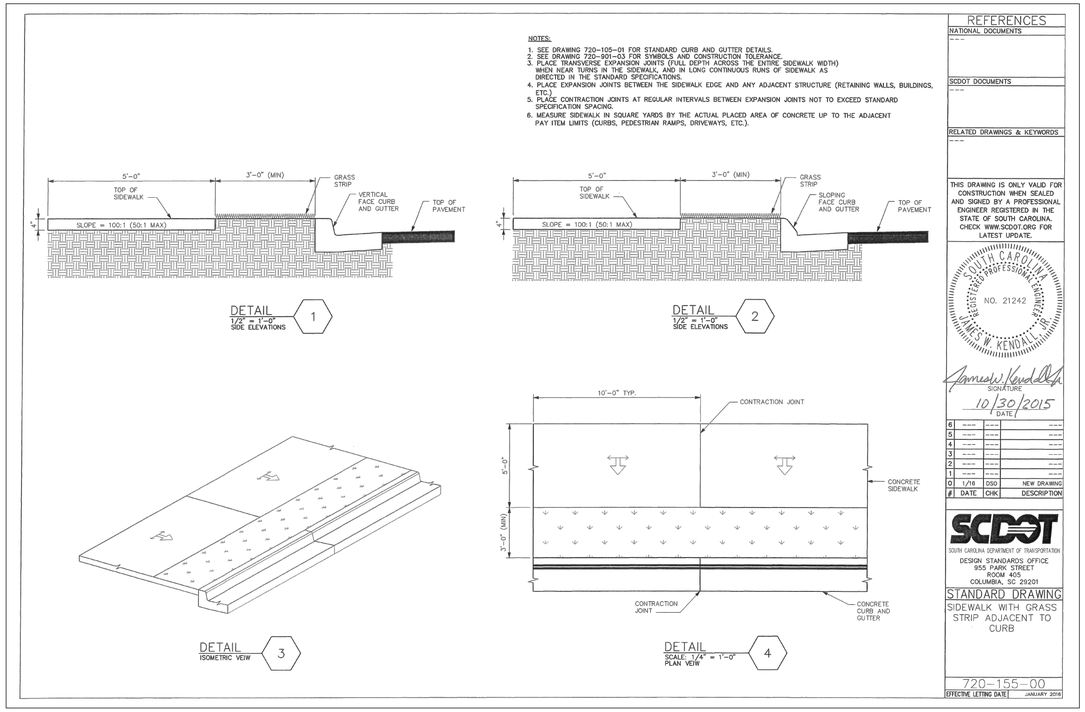
SOUTH CAROLINA NOTIFICATION OF CERTIFICATE OF AUTHORIZATION
THE LANDPLAN GROUP SOUTH
No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DETAILS

JOB #: 1192
SCALE: AS SHOWN
SHEET: 17 OF 20

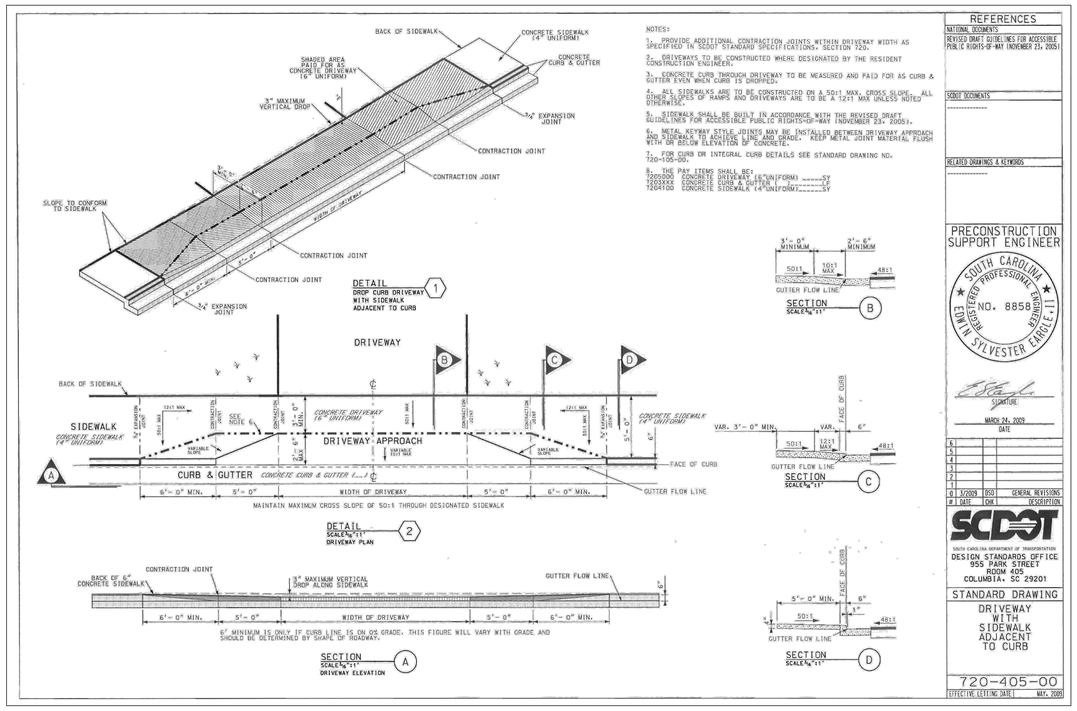
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SCDOT - SIDEWALK WITH LANDSCAPE STRIP 720-155-00

NOT TO SCALE



NOTES:

1. PROVIDE ADDITIONAL CONTRACTION JOINTS WITHIN DRIVEWAY WIDTH AS SPECIFIED IN SCDOT STANDARD SPECIFICATIONS, SECTION 720.
2. DRIVEWAYS TO BE CONSTRUCTED WHERE DESIGNATED BY THE RESIDENT CONSTRUCTION ENGINEER.
3. CONCRETE CURB THROUGH DRIVEWAY TO BE MEASURED AND PAID FOR AS CURB & GUTTER EVEN WHEN CURB IS DROPPED.
4. ALL SIDEWALKS ARE TO BE CONSTRUCTED ON A 50:1 MAX. CROSS SLOPE. ALL OTHER SLOPES OF RAMPS AND DRIVEWAYS ARE TO BE A 12:1 MAX UNLESS NOTED OTHERWISE.
5. SIDEWALK SHALL BE BUILT IN ACCORDANCE WITH THE REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY (NOVEMBER 23rd 2005).
6. METAL KEYWAY STYLE JOINTS MAY BE INSTALLED BETWEEN DRIVEWAY APPROACH AND SIDEWALK TO ACHIEVE LINE AND GRADE. KEEP METAL JOINT MATERIAL FLUSH WITH OR BELOW ELEVATION OF CONCRETE.
7. FOR CURB OR INTEGRAL CURB DETAILS SEE STANDARD DRAWING NO. 720-105-00.
8. THE PAY ITEMS SHALL BE:
7209000 CONCRETE DRIVEWAY (6"UNIFORM) -----SY
7203XXX CONCRETE CURB & GUTTER -----LF
7204100 CONCRETE SIDEWALK (4"UNIFORM)-----SY

REFERENCES
NATIONAL DOCUMENTS
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY (NOVEMBER 23, 2005)
SCDOT DOCUMENTS
RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
NO. 8858
KEVIN SYLVESTER EAGLE, III
SIGNATURE
MARCH 24, 2009
DATE

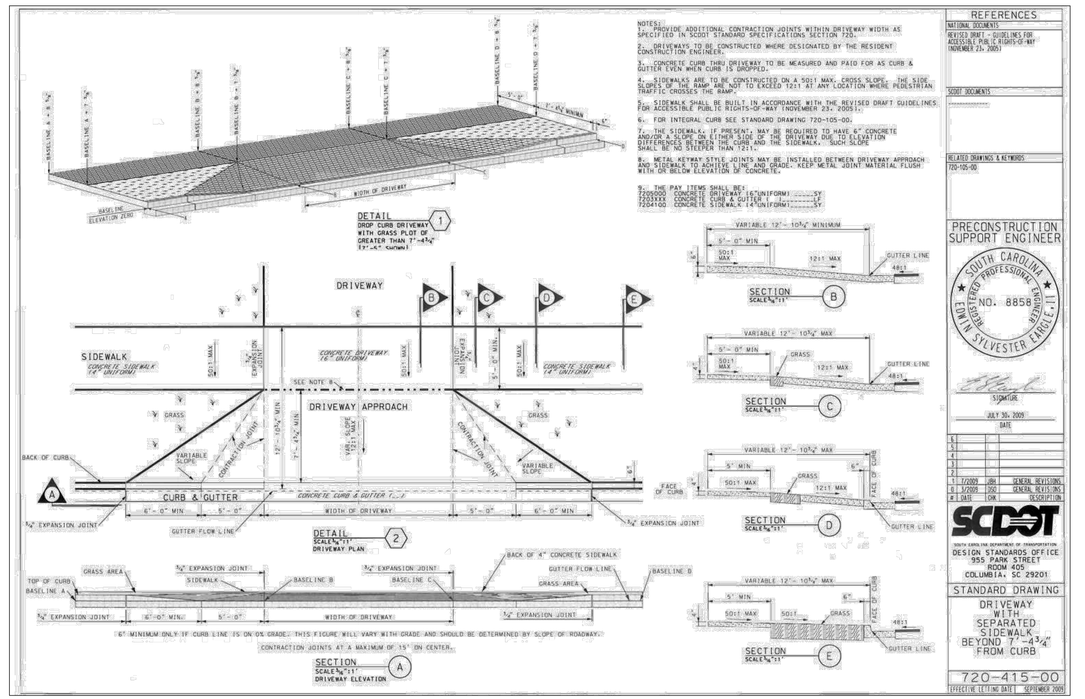
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DATE CHK DESCRIPTION

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
DRIVEWAY WITH SIDEWALK ADJACENT TO CURB
720-405-00
EFFECTIVE LETTING DATE MAY, 2009

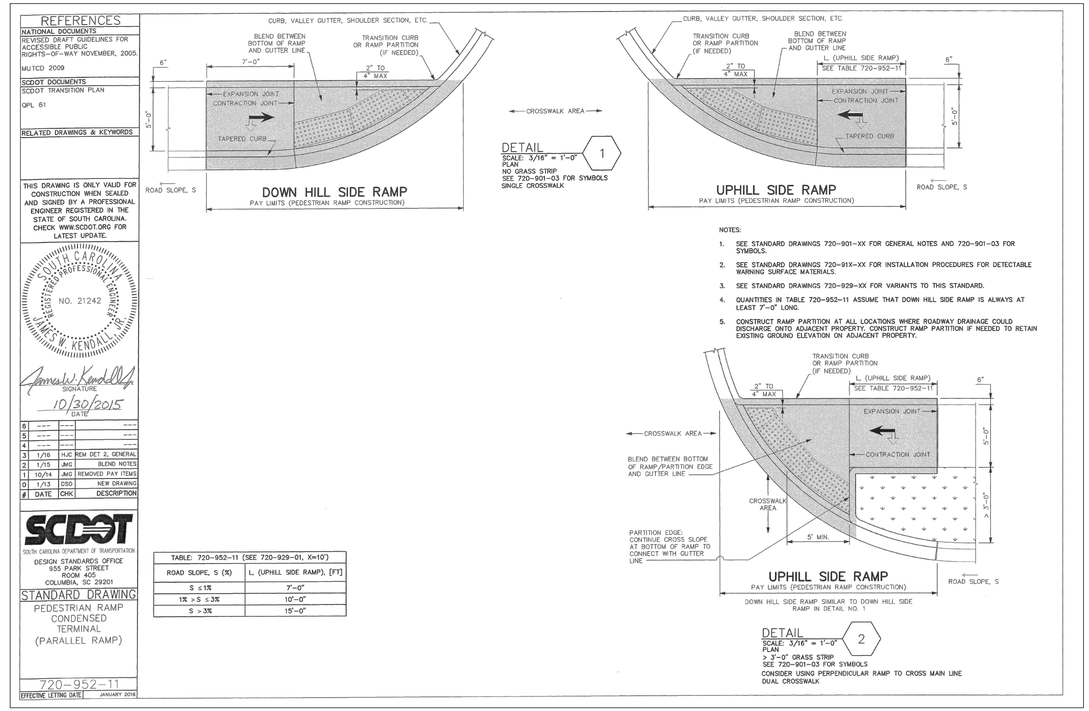
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NOT TO SCALE



SCDOT - DRIVEWAY WITH SEPARATED SIDEWALK CLOSE 720-415-00

NOT TO SCALE



SCDOT - PEDESTRIAN RAMP 720-952-11

NOT TO SCALE

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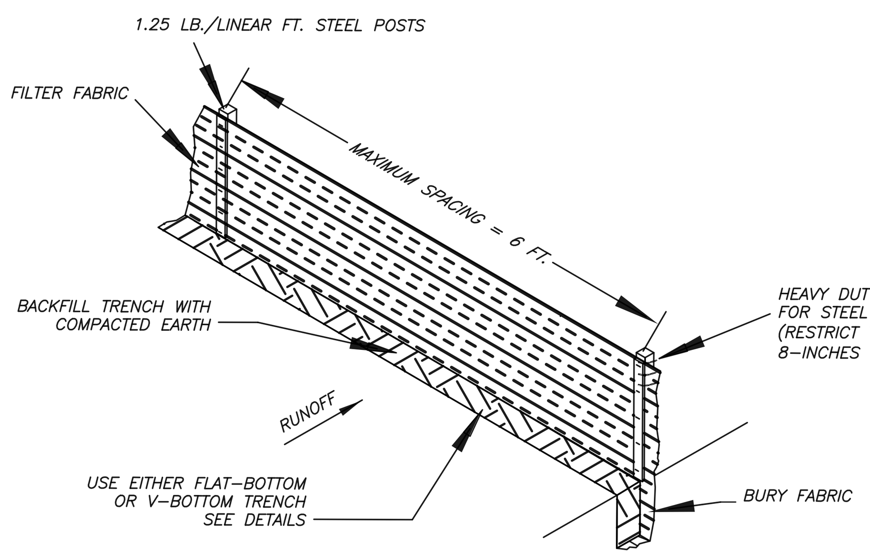
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THE LANDPLAN GROUP SOUTH
No. 3092
CERTIFICATE OF AUTHORIZATION

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DETAILS

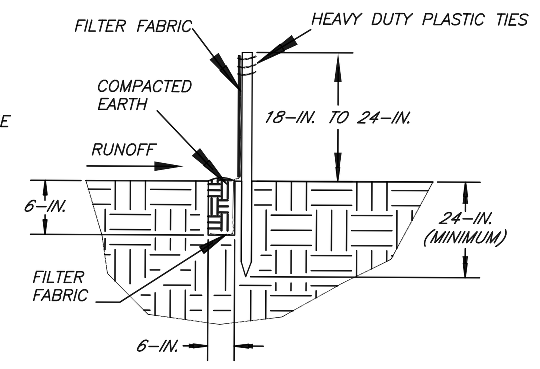
JOB #: 1192
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SHEET: 18 OF 20

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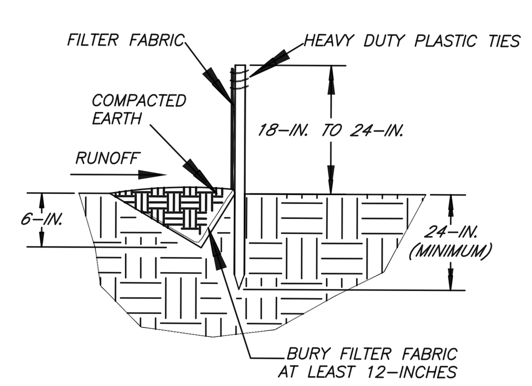
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SILT FENCE INSTALLATION



FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL

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 "T" section with a nominal face width of 1.38-inches and a nominal "T" 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 - INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence 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 silt fence.
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 silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

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 toed 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 - 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.
8. Contractor to install silt fence in all areas where slope falls away from roadway and towards adjacent property.

SILT FENCE DETAILS

NOT TO SCALE

TYPE F - INLET TUBES INLET PROTECTION

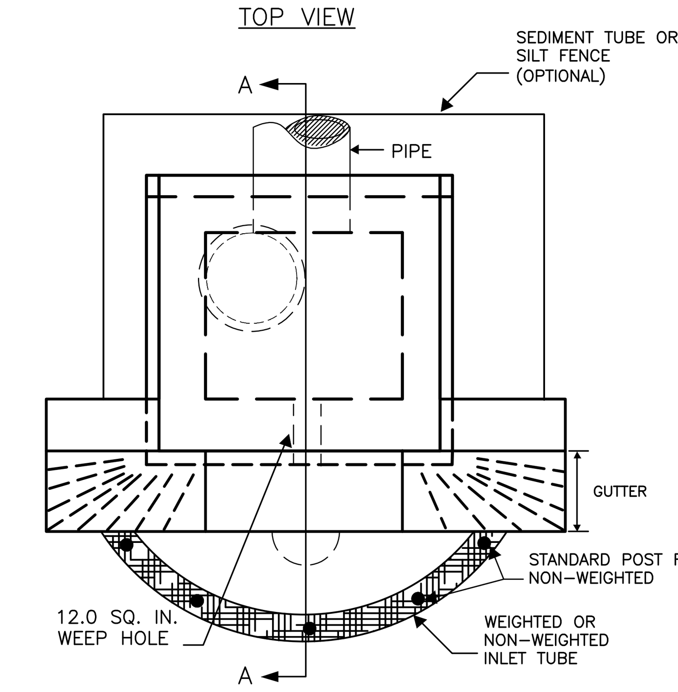
GENERAL NOTES

1. Inlets tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.
2. Inlets tubes should utilize an outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.
3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.
4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.
5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.
6. Non-weighted inlet tubes require staking or other stabilization methods to keep them safely in place.
7. Overflow or overtopping of inlet tubes must be allowed to flow into inlet unobstructed.
8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

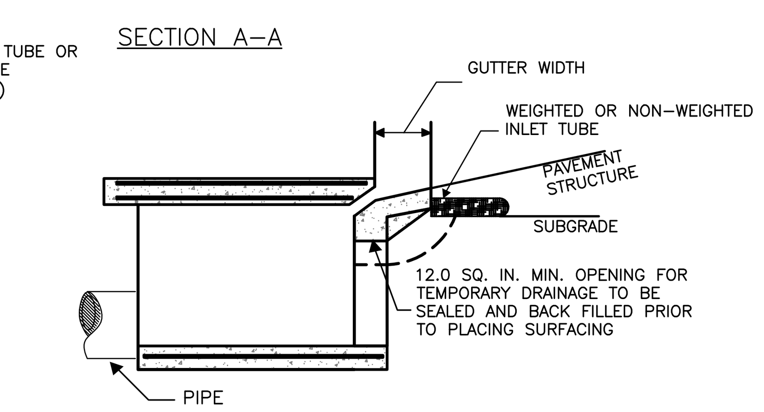
INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.
2. Regular inspections of all 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 in front of the inlet protection 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 blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.
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. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.
8. Inlet protection structures should be removed after 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.

TOP VIEW



SECTION A-A



INLET TUBE INLET PROTECTION - TYPE F

NOT TO SCALE

REFERENCES

NATIONAL DOCUMENTS
AASHTO M235

SCDOT DOCUMENTS
QUALIFIED PRODUCT LIST 14

RELATED DRAWINGS & KEYWORDS
719-001-01 TO 719-001-04

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 8858 EDWIN SYLVESTER EARGLE, II

SIGNATURE
MARCH 2, 2009
DATE

#	DATE	CHK	DESCRIPTION
6			
5			
4			
3			
2			
1	3/2009	DSO	GENERAL REVISIONS
0	01-03-03	DSO	GENERAL REVISIONS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
CATCH BASIN TYPE 1 DETAILS

719-001-01
EFFECTIVE LETTING DATE MAY 2009

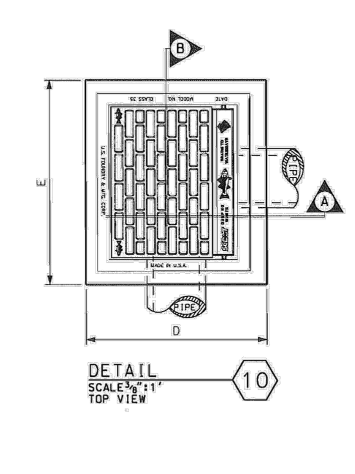


TABLE 719-001A		
DIMENSION	BUILT IN PLACE OPTION	PRECAST OPTION
A	8"	6"
B	2'-6"	2'-6"
C	3'-0"	3'-0"
D	3'-10"	3'-6"
E	4'-4"	4'-0"

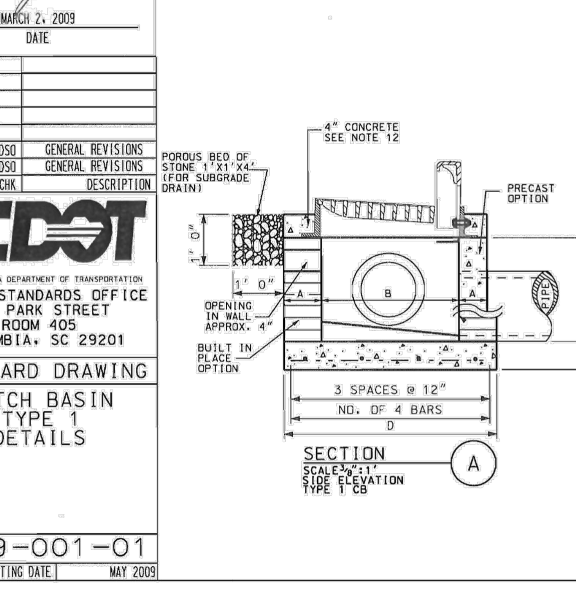
CONTRACTOR MAY USE PRECAST OR BUILT IN PLACE CONSTRUCTION NOTED ABOVE OR COMBINE OPTIONS AS DESIRED.

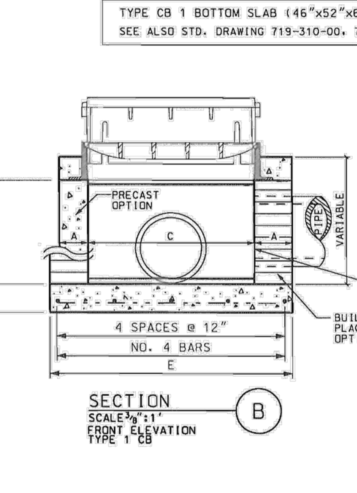
SEE QUALIFIED PRODUCT LIST 14 FOR MANUFACTURERS OF PRECAST ITEMS.

BUILT IN PLACE	①	CB TYPE 1 BOTTOM SLAB (PC OR CIP 46"X52"X6")
	②	BRICK WALLS (8" THICK) (MAXIMUM 12' DEPTH)
	③	CB TYPE 1 FRAME, GRATE, AND HOOD
PRECAST	④	PRECAST BOX CONFORMING TO STD. DRAWING 719-310-00 OR 719-305-00
	③	CB TYPE 1 FRAME, GRATE, AND HOOD

PRECAST ITEMS
TYPE CB 1 BOTTOM SLAB (46"x52"x6")
SEE ALSO STD. DRAWING 719-310-00, 719-305-00, & 719-315-00

BUILT IN PLACE	PRECAST
CB TYPE 1 FRAME, GRATE, AND HOOD ③	
BRICK ②	PRECAST BOX CONFORMING TO STD. DRAWING 719-310-00 OR 719-305-00 ④
CB TYPE 1 BOTTOM SLAB ①	





PLACE PIPE FLUSH WITH INSIDE FACE OF BOX. COAT ALL EXPOSED REBAR IN FIELD CUTS OF RCP WITH AN EPOXY RESIN ADHESIVE CONFORMING TO AASHTO M 235. FIELD CUT PIPE AS REQUIRED FOR FLUSH FIT. COMPLETELY GROUT ALL VOIDS AROUND PIPE FOR FULL SUPPORT.

GENERAL NOTES:

1. FOR BUILT IN PLACE CONSTRUCTION OF THE CATCH BASIN, EITHER BRICK MASONRY (WALLS ONLY) OR CIP CLASS 3000 CONCRETE MAY BE USED. FOR PRECAST CONSTRUCTION, A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED.

2. CONCRETE WALLS ARE TO BE 6" THICK WITH A MINIMUM REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT UNLESS NOTED. FOR BRICK, THE WALLS ARE TO BE 8" THICK. CONCRETE BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 55, GRADE S-II. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SHOWN FOR EITHER TYPE OF CONSTRUCTION.

3. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6" THICK REINFORCED CONCRETE (CLASS 3000 OR 4000P) WITH A REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQUARE INCHES PER FOOT IS MET.

4. MORTAR SHALL BE TYPE S OR M.

5. REINFORCING STEEL SHALL BE ASTM A-706, LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.

6. SEE STANDARD DRAWING 719-550-00 FOR STEPS, WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6".

7. SEE STANDARD DRAWINGS 719-420-00 AND 719-425-00 FOR DEPTHS GREATER THAN 12'. PRECAST CONCRETE CIRCULAR DRAINAGE STRUCTURES ARE REQUIRED WHEN THE DEPTH FROM THE TOP OF THE DRAINAGE BOX BOTTOM SLAB TO THE TOP OF THE GROUND EXCEEDS 12'-0".

8. LOCATION AND SIZE OF PIPES ARE SITE SPECIFIC, (SEE DRAINAGE PLANS). THE BOTTOM OF THE CATCH BASIN IS TO BE GROUTED TO THE LOWEST FLOW LINE ELEVATION OF ALL PIPES. IF BOTTOM SLAB IS CAST IN PLACE WITH PIPES INSTALLED, BOTTOM SLAB THICKNESS MUST BE ACHIEVED BEYOND PIPE OUTSIDE DIAMETER.

9. THE CONTRACT UNIT PRICE FOR CATCH BASINS 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 THE CURB AND GUTTER, IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

10. CASTINGS SHALL CONFORM TO AASHTO M 105, CLASS 35B AND THE SPECIFICATIONS OF AASHTO M 306.

11. (a) STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING (NOTE 11d) AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS. (QUALIFIED PRODUCT LIST 45)
(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. STEEL GRATES MUST HAVE POSITIVE MEANS TO BE RETAINED IN THE FRAME.
(d) STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET AASHTO M 306.
(e) MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S QUALIFIED PRODUCT LIST SHOULD CONTACT THE MATERIALS AND RESEARCH ENGINEER FOR PROCEDURES.

12. AFTER THE FRAME AND HOOD ARE SET, THE FINAL 4" OF CLASS 3000 CONCRETE IS TO BE POURED FLUSH WITH THE OUTSIDE EDGE OF THE CATCH BASIN ON ALL SIDES. PROVIDE PROTECTION FOR BOLTS AND NUTS AT FRAME ADJUSTMENT SLOTS. BOLTS AND NUTS SHALL MEET ASTM A-307 AND WILL BE GALVANIZED ACCORDING TO AASHTO M 232.

13. GRATE OPENINGS EXCEED ½" AND ARE NOT SUITABLE FOR PEDESTRIAN TRAFFIC.

14. ALL MANUFACTURING PROCESS FOR THE FRAME, GRATE, AND HOOD MUST OCCUR IN THE UNITED STATES.

15. SEE STANDARD DRAWING 719-305-00 OR 719-310-00 FOR MAXIMUM PIPE DIAMETERS. THE PIPE SIZES SHOWN ARE MAXIMUM FOR BRICK AND PRECAST BOXES WHEN PIPE ENTERS PERPENDICULAR AND AT THE CENTER OF THE BOX WALL. CONTRACTOR SHOULD CONFIRM THAT PIPE USED FITS APPROPRIATELY INTO BOX.

16. ADDITIONAL MATERIAL AND LABOR TO CONSTRUCT FLARED GUTTER TO BE INCLUDED IN THE PAY ITEM CATCH BASIN TYPE 1.

PRECAST NOTES:

17. SUPPLY PRECAST CONCRETE COMPONENTS FOR DRAINAGE ITEMS AT EACH LOCATION FROM A SINGLE SOURCE PRECAST MANUFACTURER THAT HAS BEEN INSPECTED AND APPROVED BY THE MATERIALS AND RESEARCH ENGINEER. SUPPLY ALL INTERCHANGEABLE PRECAST PARTS ON ENTIRE PROJECT FROM A SINGLE SOURCE MANUFACTURER LISTED ON QUALIFIED PRODUCT LIST 14 UNLESS APPROVED BY RCE. ITEMS FROM MULTIPLE MANUFACTURERS SHOULD NOT BE INSTALLED IN INDIVIDUAL LOCATIONS.

18. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX OR STRUCTURE FOR ADDITIONAL DETAILS AND SPECIFICATIONS.

19. 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.

20. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM QUALIFIED PRODUCT LIST FOR PRECAST ITEMS ON THIS DRAWING.

21. PRECAST MANUFACTURER SHALL FOLLOW QUALIFIED PRODUCT POLICY 14.

22. CONTRACTOR MAY SUBMIT DESIGN DRAWINGS AND CALCULATIONS FOR MODIFICATIONS TO THIS ITEM ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE ITEMS WILL NOT BE LISTED ON ANY QUALIFIED PRODUCT LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENGINEER FOR REVIEW BY THE ENGINEER OF RECORD.

23. JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH A ½" GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET (FROM QUALIFIED PRODUCT LIST 13.)

PRECAST INSTALLATION NOTES:

24. BED SHALL BE PREPARED AND COMPACTED FOR PRECAST DRAINAGE STRUCTURE AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS FOR PRECAST ITEMS. ELEVATION OF BEDDING MATERIAL SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATION OF ALL PIPES AND REQUIRED BOX TOP ELEVATION.

25. PLACE AND LEVEL PRECAST BOX.

26. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.

27. PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCDOT STANDARD SPECIFICATIONS.

28. 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 WILL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED TO SCDOT.

29. PRECAST CONCRETE CIRCULAR STRUCTURES (AS SHOWN ON 719-420-00) ARE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY THE PLANS OR SPECIAL PROVISIONS.

(a) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR GREATER THAN 12 FEET.

(b) ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE OUTLET PIPE.

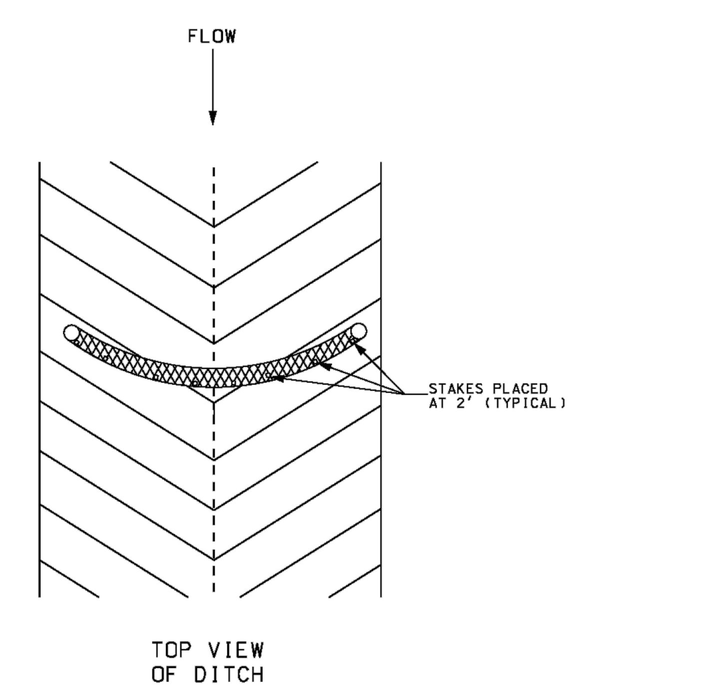
(c) AS REQUIRED BY THE PROJECT PLANS.

30. THE PAY ITEM SHALL BE:
CATCH BASIN TYPE 1 __________ EA

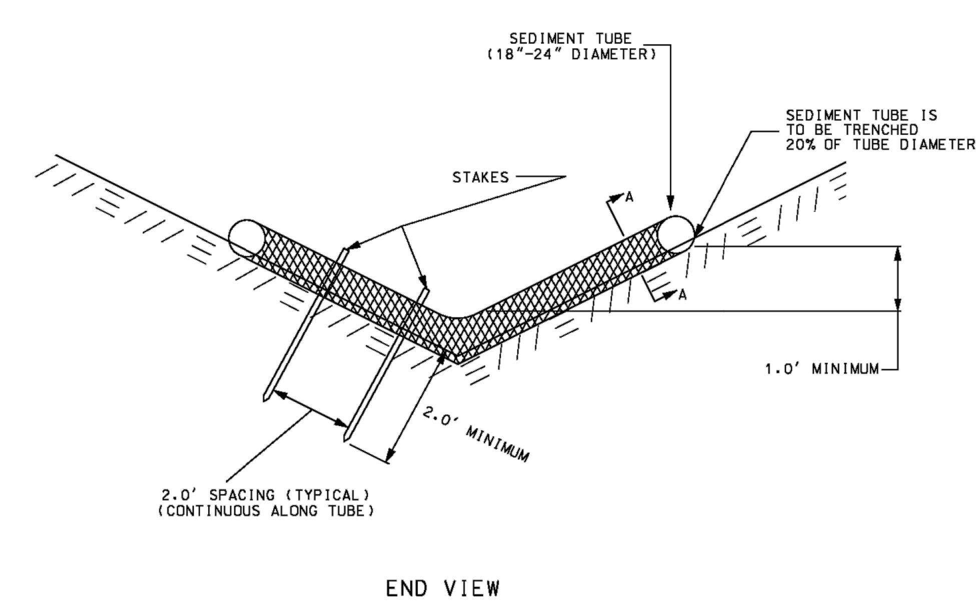
SCDOT - CATCH BASIN TYPE 1 DETAILS 719-001-01

NOT TO SCALE

FLOW



TOP VIEW OF DITCH



END VIEW OF DITCH

THIS DRAWING IS NOT TO SCALE

NOTES:

1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCDOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON QPL, AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.

2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20% OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBER SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.

3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.

4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM SEDIMENT TUBE SPACING
LESS THAN 2%	150 FEET
2%	100 FEET
3%	75 FEET
4%	50 FEET
5%	40 FEET
6%	30 FEET
GREATER THAN 6%	25 FEET

5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF ¾" X ¾" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS(1.25 lbs/linear foot)A MINIMUM OF 4' IN LENGTH. USE STEEL POSTS WITHOUT A SOIL PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A MINIMUM DEPTH OF 2'. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.

6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY, SEDIMENT TUBES CAN BE LAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.

7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS, GULLIES, AND UNDERCUTTING NEAR SEDIMENT TUBES. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.

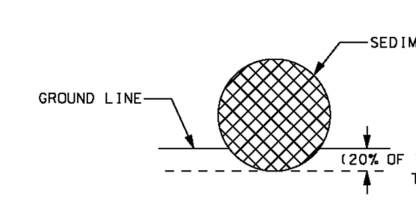
9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS, INERT MATERIAL.

10. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

11. CLEAN OUT OF TUBES WILL BE PAID FOR AS CLEANING SILT BASINS.

12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK.

13. THE PAY ITEMS SHALL BE:
8152007 SEDIMENT TUBE .... LF
8154010 CLEANING SILT BASINS .... CY



SECTION A-A

REFERENCES

NATIONAL DOCUMENTS

SCDOT DOCUMENTS
SC-M-815-12
QPL 57

RELATED DRAWINGS & KEYWORDS

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 21242 JAMES W. KENDALL, JR.

SIGNATURE
09/27/2016
DATE

#	DATE	CHK	DESCRIPTION
5			
4			
3			
2	8/2016	DSO	GENERAL REVISIONS
1	8/2012	DSO	UPDATED NOTES, WOOD TEXT REMOVED
0	3/2008	DSO	GENERAL REVISIONS

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
SEDIMENT TUBE DITCH APPLICATION

815-205-00
EFFECTIVE LETTING DATE JUL 2017

SCDOT - SEDIMENT TUBE DITCH APPLICATION 815-205-00

NOT TO SCALE

THE LANDPLAN GROUP SOUTH
LANDSCAPE ARCHITECTURE • ENGINEERING • PLANNING
1206 SCOTT STREET
COLUMBIA, SC 29201
803.256.0562
WWW.LANDPLANSOUTH.COM

REVISION	BY	APPD.	MM.DD.YY
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FILE NAME: 1192_DT_PL

DWN.	CHKD.	DSGN.	MM.DD.YY
CJK	CWH	CJK	09.24.26

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 41827 COREY JAMES

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH, INC. No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DETAILS

JOB #: 1192
SCALE: AS SHOWN
SHEET: 19 OF 20

S:\Drawings\1100's\1192-Whitmire Subertown Road\Drawings\Production Drawings\1192_DT_PL.dwg

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COMMON NAME[1]	BOTANICAL NAME	PLANTING RATES Perm / Temp (lbs/acre)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			PLANTING DATES[4]											
Crimson Clover[2]	Trifolium incarnatum	20 / 20									■	■	■	
Browntop Millet	Panicum ramosum	10 / 50			■	■	■	■	■	■				
Kobe Lespedeza[2] (unhulled = hull present)	Lespedeza striata	30 / 60	■	■	■	■								
German Millet (Foxtail Millet)	Setaria italica	25 / 40				■	■	■	■	■				
Korean Lespedeza[2] (unhulled = hull present)	Lespedeza stipulacea	30 / 60	■	■	■	■								
Hairy Vetch[2]	Vicia villosa	1 / 50								■	■	■		
Rye Grain[3]	Secale cereale	na / 55	■	■	■					■	■	■	■	■

[1] If the Common Name of the seed listed is not available, use seed with the listed Botanical Name.
[2] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[3] Rye Grain: Do not use Perennial Ryegrass (Lolium perrene) or Annual Italian Ryegrass (Lolium multiforum)
[4] Months shaded in gray represent applicable planting dates.

TEMPORARY SEEDING SCHEDULE

NOT TO SCALE

COMMON NAMES5[1]	BOTANICAL NAME	PLANTING RATE (lbs/acre)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			PLANTING DATES[4]											
Turf-Type Grasses														
Common Bermudagrass[2] (hulled = hull absent)	Cynodon dactylon	25			■	■	■	■	■	■				
Common Bermudagrass[2] (unhulled = hull present)	Cynodon dactylon	30	■	■							■	■	■	■
Centipedegrass	Eremochloa ophiuroides	10			■	■	■	■						
Grasses														
Weeping Lovegrass	Erograstis curvula	5		■	■	■	■	■	■					
Indiangrass	Schizachyrium nutans	10	■	■	■	■	■	■				■	■	■
Switchgrass	Panicum virgatum	9	■	■	■	■	■					■	■	■
Virginia Wildrye	Elymus virginicus	6	■							■				■
Legumes[3]														
White Clover	Trifolium repens	5								■	■	■	■	
Sericea Lespedeza (Scarified seed)	Lespedeza cuneta	50			■	■	■	■	■					
Sericea Lespedeza (Unscarified seed)	Lespedeza cuneta	80	■	■	■	■	■	■	■	■	■	■	■	■

[1] If the Common Name of the seed listed is not available, use seed with the listed Botanical Name.
[2] Common Bermudagrass: *Do not use Giant Bermudagrass (NK-37).*
[3] Only use pre-inoculated legumes or use an appropriate inoculant with the seed at planting.
[4] Months shaded in gray represent applicable planting dates.

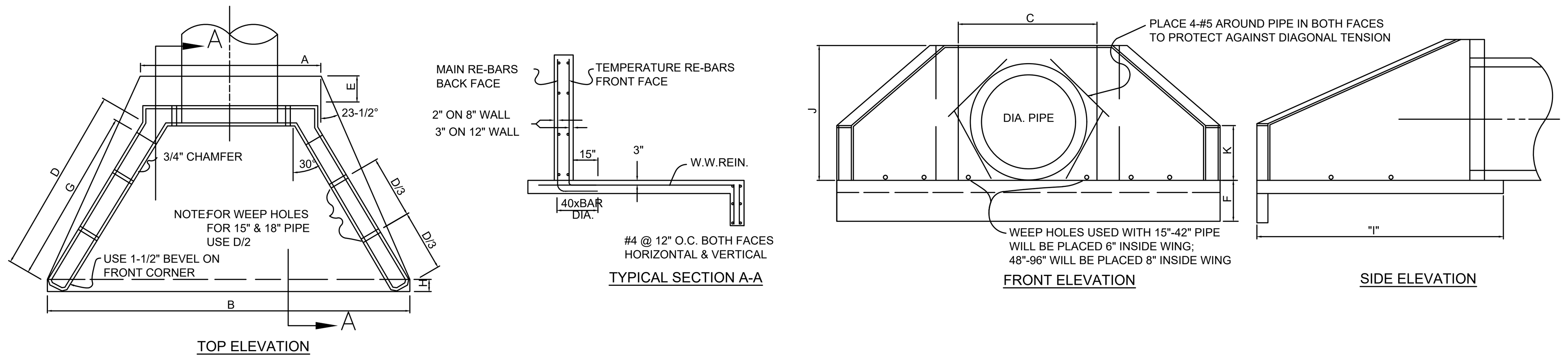
PERMANENT SEEDING SCHEDULE

NOT TO SCALE

SINGLE-PIPE HEADWALL

PIPE SIZE	BACK FACE WALL REINFORCEMENT HOR.	BACK FACE WALL REINFORCEMENT VERT.	SLAB REINFORCEMENT	FRONT FACE TEMP REINF IN FRONT FACE OF WALLS OR COMPRESSION STEEL	CUBIC YARDS OF CONCRETE
15"	#3 @ 12" O.C.	#3 @ 12" O.C.	6-6 X 10-10 WIRE MESH REINF.	#4 @ 18" HOR. AND VERT.	1.61
18"	"	"	"	"	1.96
24"	"	"	"	"	2.67
30"	"	"	"	"	3.49
36"	"	"	"	"	4.21
42"	"	"	"	"	4.90
48"	"	"	"	"	6.33
54"	"	#4 @ 12" O.C.	"	"	7.23
60"	"	"	"	"	11.25
66"	#4 @ 12" O.C.	"	6-6 X 6-6 WIRE MESH REINF.	"	14.67
72"	"	"	"	"	15.75
78"	"	"	"	#4 @ 12" HOR. AND VERT.	18.04
84"	"	#5 @ 12" O.C.	"	"	19.32

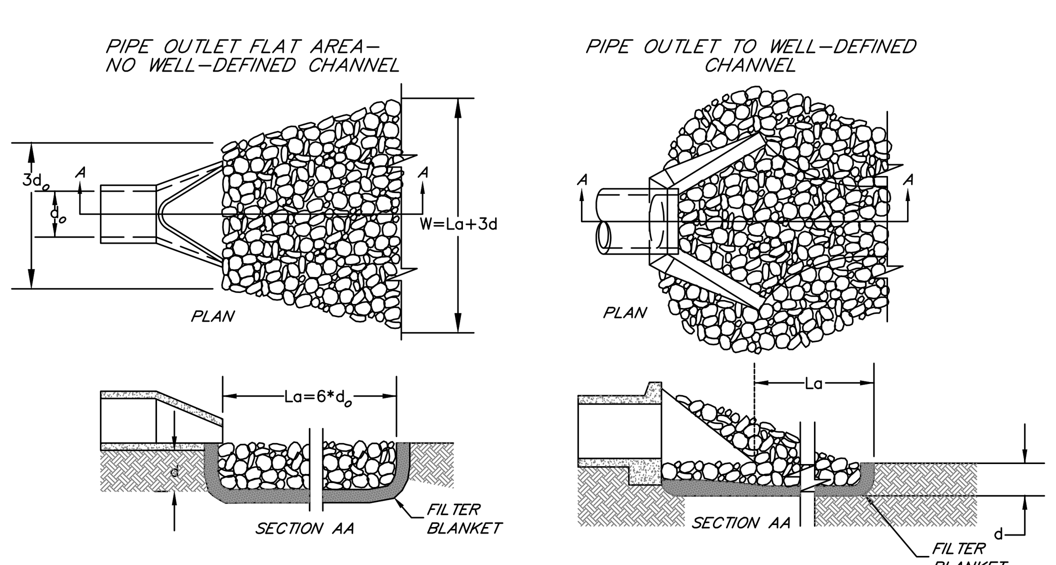
PIPE SIZE	SHELL THICKNESS	WALL THICKNESS	SLAB THICKNESS	A	B	C	D	E	F	G	H	I	J	K	L
15"	2 1/4"	8"	6"	4'-10"	9'-4"	3'-7"	4'-2"	1'-0"	1'-6"	3'-8"	6"	5'-8"	2'-7"	1'-0"	5'-2"
18"	2 1/2"	8"	6"	5-5"	10'-5"	3'-11"	4'-11"	1'-0"	1'-6"	4'-5"	6"	6'-3"	2'-11"	1'-0"	5'-6"
24"	3"	8"	6"	6'-4"	12'-4"	4'-6"	6'-3"	1'-0"	1'-6"	5'-9"	6"	7'-5"	3'-6"	1'-0"	6'-1"
30"	3 1/2"	8"	6"	7'-3"	14'-3"	5'-1"	7'-7"	1'-0"	1'-6"	7'-1"	6"	8'-7"	4'-1"	1'-0"	6'-8"
36"	4"	8"	6"	7'-5"	15'-1"	5'-8"	7'-10"	1'-6"	2'-0"	7'-4"	6"	9'-4"	4'-8"	1'-6"	7'-3"
42"	4 1/2"	8"	6"	8'-4"	17'-0"	6'-3"	9'-2"	1'-6"	2'-0"	8'-8"	6"	10'-6"	5'-3"	1'-6"	7'-10"
48"	5"	8"	6"	9'-4"	18'-11"	6'-10"	10'-6"	1'-6"	2'-0"	10'-0"	6"	11'-7"	5'-10"	1'-6"	8'-5"
54"	5 1/2"	8"	6"	10'-1"	19'-9"	7'-5"	10'-9"	1'-6"	2'-0"	10'-3"	8"	11'-10"	6'-5"	2'-0	9'-0"
60"	6"	12"	6"	10'-10"	22'-5"	8'-0"	12'-1"	2'-0"	2'-6"	11'-7"	8"	14'-0"	7'-0"	2'-0"	10'-4"
66"	6 1/2"	12"	8"	11'-9"	24'-4"	8'-7"	13'-5"	2'-0"	2'-6"	12'-11"	8"	15'-2"	7'-7"	2'-0"	10'-11"
72"	7"	12"	8"	12'-5"	25'-1"	9'-2"	13'-7"	2'-0"	2'-6"	13'-1"	8"	15'-3"	8'-2"	2'-6"	11'-6"
78"	7 1/2"	12"	8"	13'-4"	27'-0"	9'-9"	14'-11"	2'-0"	2'-6"	14'-5"	8"	16'-5"	8'-9"	2'-6"	12'-1"
84"	8"	12"	8"	13'-11"	27'-9"	10'-4"	15'-1"	2'-0"	2'-6"	14'-7"	8"	16'-7"	9'-4"	3'-0"	12'-8"



REINFORCED CONCRETE HEADWALL WITH WINGS DETAIL

NOT TO SCALE

PIPE DIA. (in.)/ SWALE WIDTH (in.)	# PIPES	$3d_o$(ft.)	La (ft.)	W (ft.)	d (in.)
12"	1	3.0'	6.0'	9.0'	12"
15'	1	3.75'	7.5'	11.25'	12"
18"	1	4.5'	9.0'	13.5'	12"
24"	1	6.0'	12.0'	18.0'	12"
30"	1	7.5'	15.0'	22.5'	12"
36"	1	9.0'	18.0'	24.0'	12"
42"	1	10.5'	21.0'	31.5'	12"



NOTES:

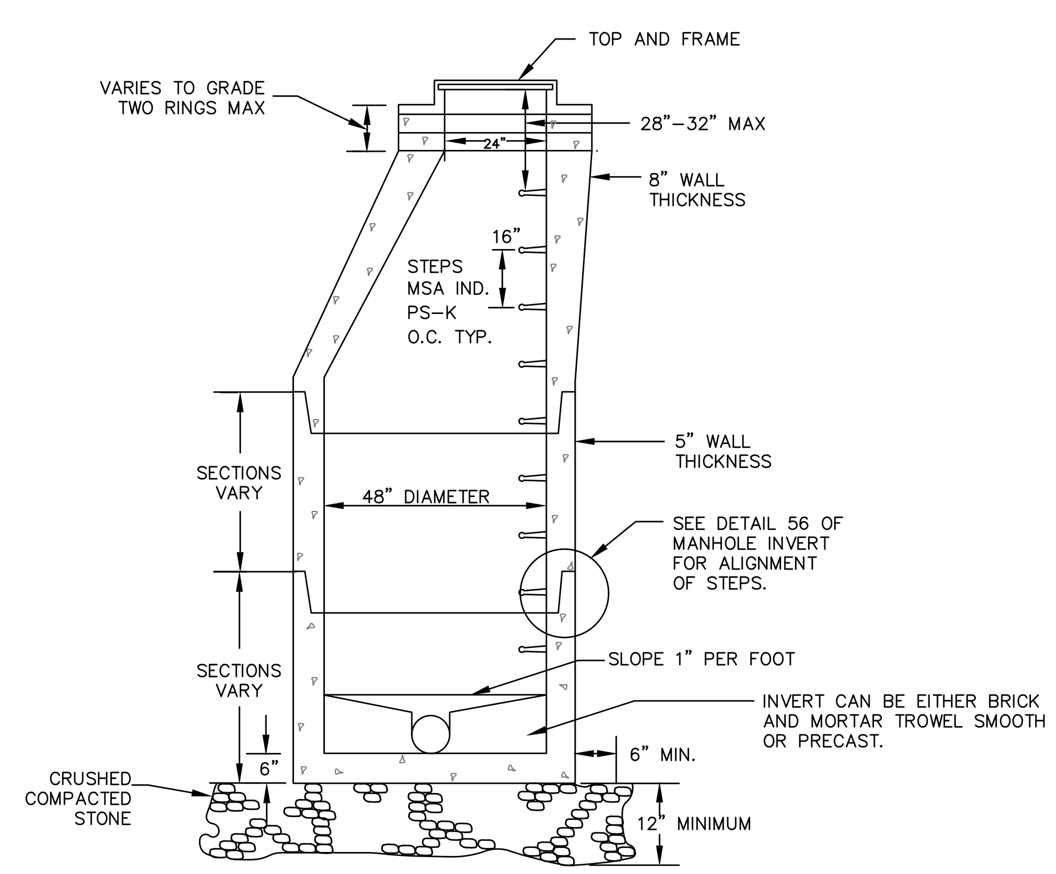
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. d=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL—DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

OUTLET STRUCTURE STABILIZATION DETAIL

NOT TO SCALE

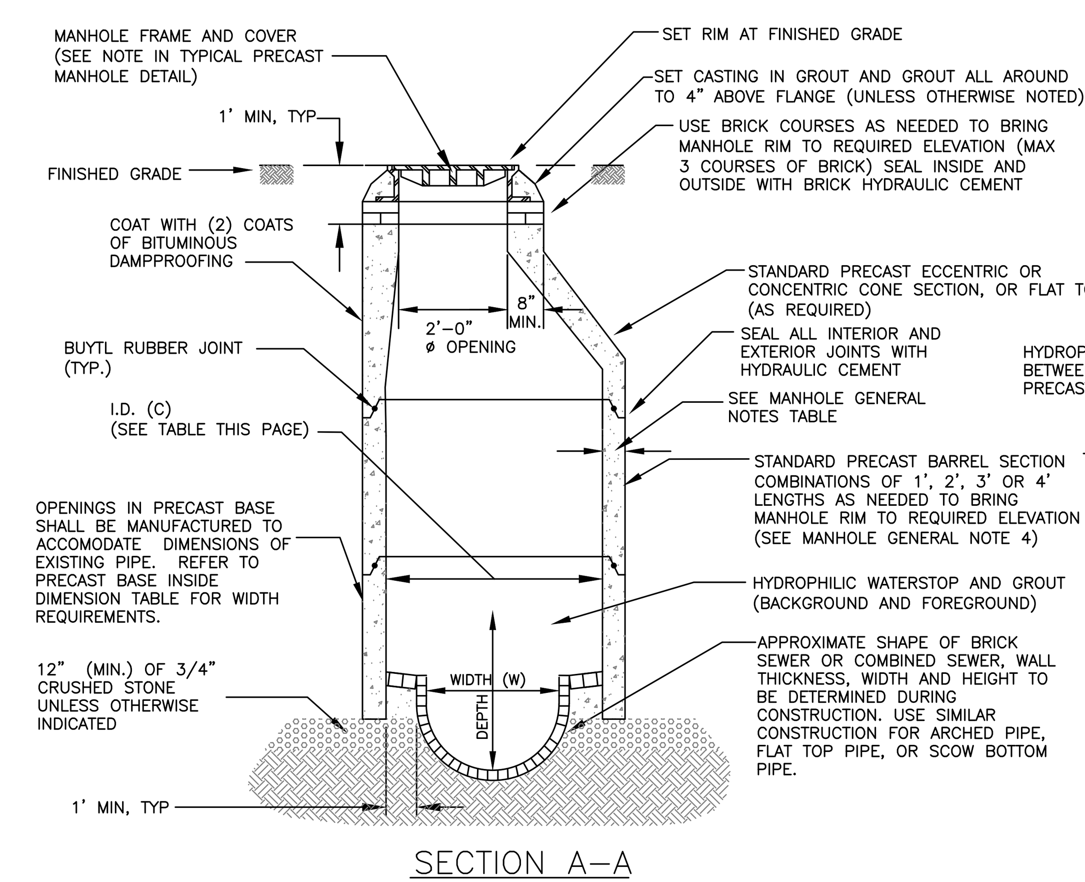
NOTE:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ALL REQUIREMENTS OF ASTM C478, "STANDARD SPECIFICATION FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
2. BOTTOMS OF PRECAST CONCRETE MANHOLES SHALL BE CAST MONOLITHIC WITH THE BOTTOM OF THE WALL SECTION.
3. WALL SECTION JOINTS SHALL BE TAPED, TONGUED AND GROOVED.
4. FRAMES AND COVERS SHALL BE COATED WITH TWO (2) SHOP COATS OF WATER BASED BITUMASTIC PAINT.
   4.1. "CITY OF ORANGEBURG" AND "SANITARY SEWER" ON OUTER RADIUS OF COVER. "DPU" AND OWNER LOGO BENEATH "DPU" IN CENTER OF COVER.
   4.1. THE FRAMES AND COVER SHALL BE EAST JORDAN IRON WORKS, INC. MODEL V-1384 OR APPROVED EQUAL.
5. MANHOLE STEPS SHALL BE POLYPROPYLENE PLASTIC STEPS REINFORCED WITH 3/8" DIAMETER STEEL ROD, PROVIDE STEPS HAVING NON-SKID TOP SURFACES, SAFETY SLOPE AT EACH END, MINIMUM WIDTH OF 10-INCHES AND NOT LESS THAN 5-INCHES PROJECTION FROM WALL
6. COAT MANHOLE SECTIONS WITH COAL TAR EPOXY, TNEMEC "TNEMEC-TAR" OR EQUAL.
   6.1. INTERIOR: 21 DRY MILS
   6.2. EXTERIOR: 7 DRY MILS
7. PROVIDE EPOXY COATING FOR ALL MANHOLES AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, AND NEEDED FOR A COMPLETE AND PROPER INSTALLATION PER MANUFACTURES SPECIFICATIONS.
   7.1. ACCEPTABLE PRODUCT: RAVEN 405 MANUFACTURED BY RAVEN LINING SYSTEMS, INC., TULSA OKLAHOMA AND IS NAMED TO ESTABLISH STANDARDS OF QUALITY.
   7.2. THE PRODUCT APPLICATOR MUST BE QUALIFIED AND CERTIFIED BY THE MANUFACTURER OF THE PRODUCT.



TYPICAL PRECAST MANHOLE DETAIL

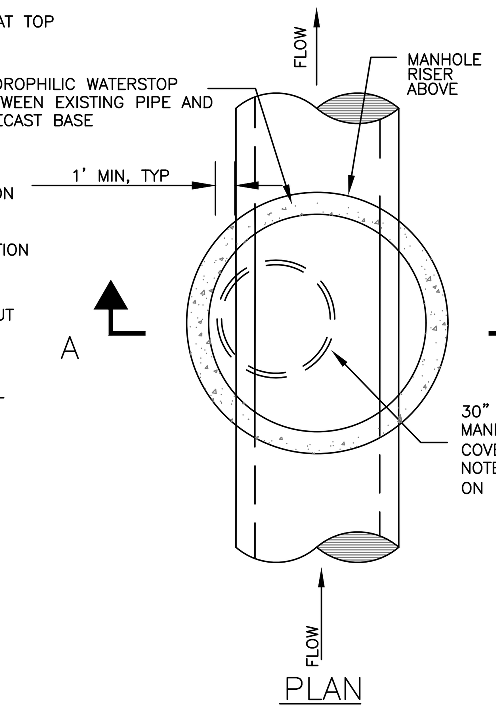
NOT TO SCALE



PRECAST BASE INSIDE DIMENSION TABLE

WIDTH (W)	I.D. (C)
8" TO 24"	4' ø
27" TO 36"	5' ø
48" TO 66"	6' ø
66" TO 72"	8' ø
> 72"	10' ø

I.D. = INSIDE DIMENSION



NOTES:
1. REMOVE EXISTING BRICK PIPE TO SPRING LINE WITHIN THE INSIDE OF THE PRECAST MANHOLE BASE AND CONSTRUCT THE INVERT TO THE SPRING LINE AS SHOWN.

DOGHOUSE MANHOLE DETAIL

NOT TO SCALE

THE LANDPLAN GROUP SOUTH
LANDSCAPE ARCHITECTURE • ENGINEERING • PLANNING
1206 SCOTT STREET
COLUMBIA, SC 29201
803.256.0562
WWW.LANDPLANSOUTH.COM

REVISION	BY	APPD.	MM.DD.YY
1.			
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FILE NAME: 1192_DT_PL
DWN. CJK | CHKD. CWH | DSGN. CJK | 09.24.26 MM.DD.YY

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 41827 COREY JAMES LICENSED

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION THE LANDPLAN GROUP SOUTH, INC. No. 3092

SUBERTOWN RD/GARY ST SIDEWALK PROJECT
BID PLAN SET
WHITMIRE, SC NEWBERRY COUNTY
DETAILS

JOB #: 1192
SCALE: AS SHOWN
SHEET: 20 OF 20

S:\Drawings\1100's\1192-Whitmire Subertown Road\Drawings\Production Drawings\1192_DT_PL.dwg

GENERAL NOTES:

1. DESIGN CRITERIA - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (9th Edition)
   SCDOT 2025 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

1a. DESIGN LOADS:
   LIVE LOAD SURCHARGE: 80 PSF
   SOIL UNIT WEIGHT: 120 PCF
   ACTIVE EARTH PRESSURE COEFF.: 0.33
   DEAD LOADS: ACTUAL WEIGHT OF MATERIALS (CONC. 150 PCF)

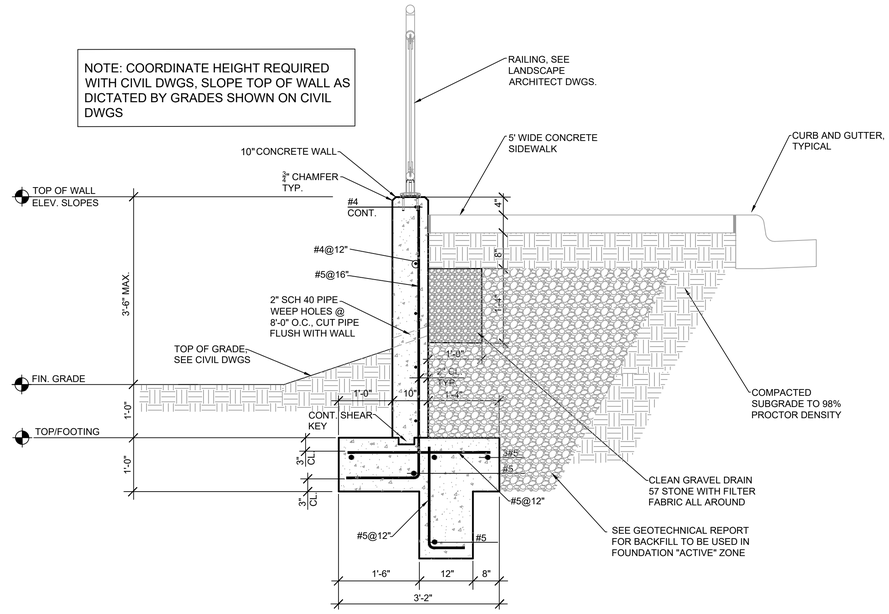
2. VERIFY WALL EXPOSED FINISH WITH SITE ARCHITECT /OWNER
3. STEP FOOTINGS DOWN IF REQUIRED TO CLEAR PIPING,CONDUIT, OTHER UTILITIES, ETC. SO THAT TOP OF FOOTINGS ARE BELOW SUCH UTILITY LINES. SEE MECHANICAL, ELECTRICAL, CIVIL, ETC. FOR LOCATIONS.
4. CHECK WITH VARIOUS TRADES FOR SLEEVES, OPENINGS, CONDUITS, ETC. BEFORE POURING CONCRETE FOOTINGS.
5. VERIFY LOCATION OF ALL WALLS, CHAMFERS, OFFSETS, SLEEVES, ETC. WITH SITE ARCHITECT DRAWINGS
6. VERIFY ALL ELEVATIONS AND DIMENSIONS WITH SITE ARCHITECTURAL DRAWINGS.
7. SEE SITE ARCHITECT DRAWINGS FOR MISCELLANEOUS DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
8. SEE SITE ARCHITECT DRAWINGS FOR EXTREMITIES OF CONCRETE.
9. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS BEFORE ANY FABRICATION OR CONSTRUCTION HAS STARTED.
10. PROVIDE AND INSTALL ALL TEMPORARY BRACING AS REQUIRED FOR SAFETY/STABILITY OF THE STRUCTURE UNTIL STRUCTURE IS COMPLETE.
11. CONTRACTOR SHALL VISIT SITE TO BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AND SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, FRAMING CONDITIONS, AND CONNECTIONS BEFORE BEGINNING CONSTRUCTION OR ANY FABRICATION.
12. REVIEW OF SUBMITTAL AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENTS DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS.
13. DRAWINGS INDICATE GENERAL ARRANGEMENT AND DIMENSIONS AND ARE, GENERALLY, DRAWN TO SCALE. HOWEVER, SCALE DIMENSIONS SHALL NOT BE USED. OBTAIN DIMENSIONS FROM ARCHITECT, WHEN NOT GIVEN IN FIGURES. REFER TO THE ARCHITECT AND ENGINEER ANY INCONSISTENCIES FOUND.
14. WHERE A CONFLICT EXISTS BETWEEN STRUCTURAL AND ARCHITECTURAL, USE STRUCTURAL FOR ITEMS RELATING TO STRUCTURAL STRENGTH SUCH AS VERTICAL REINFORCING IN MASONRY WALLS, FOOTING SIZE, FOOTING ELEVATION, REINFORCING, MEMBER SIZE, ETC.
15. WHERE DETAILS SHOWN ON STRUCTURAL DRAWINGS FOR ONE CONDITION, IT SHALL APPLY TO ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.

CONCRETE NOTES:

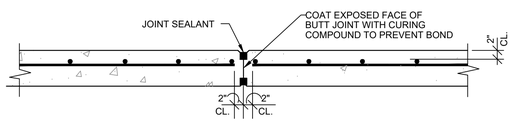
1. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
   1.1. NORMAL WEIGHT (150 PCF) 4000 PSI FOR ALL CONCRETE
2. ALL REINFORCING BARS TO HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. ALL LAP SPLICES ARE TO BE CLASS 'B' SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
4. ALL CONCRETE WALLS AND FOOTINGS, ETC. SHALL HAVE CORNER AND / OR OFFSET BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT, UNLESS NOTED OTHERWISE.
5. PROVIDE AND INSTALL ALL SLEEVES, PLATES, ANGLES, REINFORCING, ETC., EMBEDDED IN CAST-IN-PLACE CONCRETE.
6. CONCRETE FORMWORK:
   6.1. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI STANDARD 347 RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.
   6.2. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FORM, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOAD, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
   6.3. TOLERANCE: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL ENGAGE A LICENSED SURVEYOR TO VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES.
   6.4. ALL PERMANENTLY VISIBLE EDGES OF CONCRETE SHALL HAVE A 3/4" CONTINUOUS CHAMFER. THIS INCLUDES ALL SLABS, BEAMS, COLUMNS, AND WALLS.
7. CONDUIT SHALL NOT BE PLACED IN CAST-IN-PLACE CONCRETE. ANY EXCEPTIONS ARE TO BE AS INDICATED BY THE ENGINEER OF RECORD AND COORDINATION DRAWINGS SHOWING THE EXACT NUMBER, SIZE AND LOCATION OF CONDUIT ARE TO BE APPROVED BY THE ENGINEER OF RECORD.
8. CRACK FILLER: IF CRACK REPAIRS IN CONCRETE SLABS BECOME NECESSARY UNDER THE TERMS OF THESE NOTES, USE SPAL-PRO 2000 MADE BY METZGER/MCGUIRE, FOLLOW MANUFACTURER'S RECOMMENDATIONS. INSPECT THE FLOOR AFTER 90 DAYS, AND REPAIR ANY CRACK THAT IS MORE THAN 1/32" WIDE.
9. FILL ALL JOINTS IN CONCRETE SLABS WITH MM-80 EPOXY JOINT FILLER BY METZGER/MCGUIRE.
   9.1. CONSTRUCTION JOINTS
      (A) LOCATE CONSTRUCTION JOINTS IN STRICT ACCORDANCE WITH THE DRAWINGS DO NOT ADD OR DELETE CONSTRUCTION JOINTS WITHOUT THE ENGINEER'S APPROVAL.
   9.2. FILLING:
      (A) WAIT AT LEAST 90 DAYS. CHASE THE JOINT WITH A CONCRETE SAW. AT CONSTRUCTION JOINTS, CUT 1" DEEP. AT SAWCUT CONTROL JOINTS, CUT AS DEEP AS THE ORIGINAL JOINT. BLOW THE JOINT CLEAN WITH COMPRESSED AIR. USE BACKER ROD TO MAKE A VERTICAL DAM AT EACH END OF THE LENGTH TO BE FILLED. DO NOT USE BACKER ROD AT THE BOTTOM OF THE JOINT. FILL THE JOINT WITH SEMI-RIGID EPOXY. LEAVE THE SURFACE SLIGHTLY CROWNED. IF THERE IS A PROBLEM WITH THE EPOXY LEAKING OUT THE BOTTOM OF THE JOINT, LINE THE JOINT WITH A HARD PLASTIC ROD DRIVEN DOWN TO THE BOTTOM OF THE SAWCUT. AFTER THE EPOXY HAS HARDENED, SAND IT FLUSH WITH A BELT SANDER.

SOIL NOTES:

1. FOUNDATION SYSTEM DESIGNED FOR AN SOIL BEARING CAPACITY OF 2,500 PSF PER GEOTECHNICAL REPORT PROVIDED BY UES PROFESSIONAL SOLUTIONS, DATED OCTOBER 24, 2025
2. BEFORE ANY CONSTRUCTION, THE ENTIRE SITE AREA SHALL BE STRIPPED OF ANY ROOT SYSTEMS, SURFACE VEGETATION, ORGANIC SURFACE SOILS, EXISTING CONCRETE SLABS, FOOTINGS, BURIED FUEL TANKS, UNDERGROUND UTILITIES, AND ANY OTHER UNSUITABLE NEAR SURFACE MATERIALS. ALSO, ALL UNDOCUMENTED FILL SOILS BENEATH THE BUILDING AREAS SHALL BE COMPLETELY REMOVED TO A DEPTH DETERMINED BY TESTING LABORATORY AND REWORKED AS NECESSARY TO OBTAIN REQUIRED BEARING VALUE. THE UNDERCUTTING SHALL EXTEND AT LEAST FIFTEEN FEET OUTSIDE THE BUILDING AREA. AFTER STRIPPING AND UNDERCUTTING, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT ALL UNSUITABLE MATERIALS HAVE BEEN REMOVED. THE EXPOSED SUBGRADE SHALL THEN BE PROOFROLLED AND DENSIFIED, IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, WITH APPROVED EQUIPMENT. PROOFROLLING SHALL BE DONE FOLLOWING A PERIOD OF DRY WEATHER TO AVOID DAMAGING AN OTHERWISE SUITABLE SUBGRADE. A MINIMUM OF FOUR (4) PASSES SHALL BE MADE WITH TWO THESE PASSES MADE PERPENDICULAR TO THE INITIAL LINE OF ROLLING. ADDITIONAL PASSES REQUIRED FOR COMPACTION SHALL BE MADE. ANY AREAS FOUND TO "PUMP" OR DEFLECT EXCESSIVELY SHALL BE UNDERCUT TO STABLE MATERIAL. TESTING LABORATORY PERSONNEL SHALL DETERMINE THE NECESSITY OF FURTHER UNDERCUTTING. THE EXPOSED BASE SOILS SHALL BE DENSIFIED TO 95% STANDARD PROCTOR. TEST EXISTING BASE SOIL TO VERIFY THAT 95% COMPACTION HAS BEEN OBTAINED. DEPENDING UPON SOIL MOISTURE AT TIME OF GRADING, MOISTURE SHALL BE ADDED OR THE SOIL SHALL BE AERATED AND DENSIFIED TO WITHIN 3% OF OPTIMUM MOISTURE. IF WET CONDITIONS ARE ENCOUNTERED THE SUBGRADE SOILS SHALL BE SUFFICIENTLY AERATED TO PREVENT PUMPING UNDER HEAVY CONSTRUCTION EQUIPMENT. EXTREME CARE SHALL BE USED DURING STRIPPING AND DENSIFICATION OF SOIL ADJACENT TO EXISTING STRUCTURE TO PREVENT DAMAGE TO EXISTING BUILDING.
3. THE TESTING LABORATORY SHALL DO A SUFFICIENT NUMBER OF IN PLACE DENSITY TESTS TO CONFIRM THAT THE REQUIRED DEGREE OF COMPACTION IS OBTAINED.
4. EACH FOOTING EXCAVATION SHALL BE THOROUGHLY TAMPED USING A MECHANICAL TAMPER BEFORE PLACING ANY STEEL OR CONCRETE. ALL SOFT, LOOSE, OR OTHERWISE QUESTIONABLE SOILS SHALL BE STABILIZED BY COMPACTING IN PLACE OR BY REMOVING AND REPLACING SUCH UNSUITABLE SOILS. IN AREAS THAT ARE DIFFICULT TO STABILIZE, A COARSE CRUSHED AGGREGATE SHALL BE USED TO STABILIZE THE EXCAVATIONS. TESTING LABORATORY SHALL VERIFY THAT THE FOOTING EXCAVATIONS HAVE BEEN COMPACTED AND THAT THE BEARING CAPACITY HAS BEEN ACHIEVE.
5. CONTRACTOR SHALL ESTABLISH AND MAINTAIN GOOD SITE DRAINAGE THROUGHOUT CONSTRUCTION.
6. IT IS REQUIRED THAT ALL FOOTINGS BE CONSTRUCTED AS SOON AS POSSIBLE AFTER EXCAVATION TO BEARING SOILS IS COMPLETED. IF THE BEARING SOILS ARE EXPOSED TO SURFACE OR RAIN WATER, THE SOFTENED SOIL SHALL BE THOROUGHLY REMOVED PRIOR TO PLACEMENT OF CONCRETE. IF IT IS ANTICIPATED THAT FOOTING EXCAVATIONS WILL REMAIN EXPOSED FOR MORE THAN 24 HOURS OR IF RAIN IS IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2 TO 4 INCH THICKNESS OF 2000 PSI MINIMUM STRENGTH CONCRETE MAY BE PLACED OVER BEARING SOILS FOR PROTECTION.

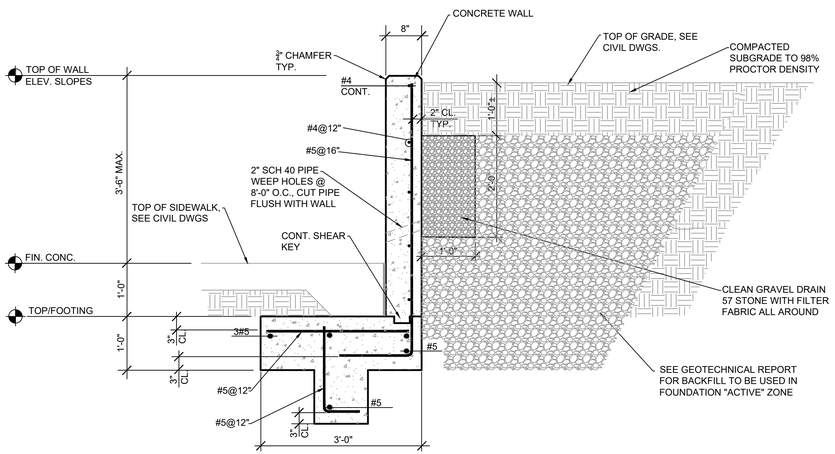


CONCRETE RETAINING WALL w/ RAILING
(3'-6" MAX. RETAINING)
Scale 3/4" = 1'-0"



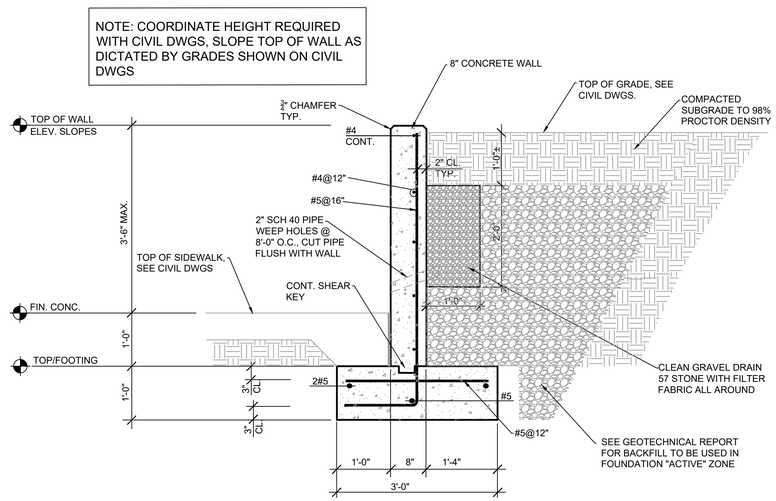
TYPICAL WALL CONSTRUCTION JOINT

NOT TO SCALE 20'-0" MAX. SPACING



NOTE: COORDINATE HEIGHT REQUIRED WITH CIVIL DWGS, SLOPE TOP OF WALL AS DICTATED BY GRADES SHOWN ON CIVIL DWGS

PROPERTY LINE CONCRETE RETAINING WALL (3'-6" MAX. RETAINING)
AT SCDOT RIGHT OF WAY
Scale 3/4" = 1'-0"



CONCRETE RETAINING WALL (3'-6" MAX. RETAINING)
Scale 3/4" = 1'-0"

⚠ REISSUED PER SCDOT REVIEW COMMENTS

Partner In Charge

Project Engineer
GMH

Drawn By
GMH

Date Drawn
11/13/2025

Revisions
No. ⚠1 Date 4/14/26
No. ⚠2 Date 6/8/26
No. Date
No. Date
No. Date
No. Date
No. Date
No. Date
No. Date
Issue Date

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17457 ALBERT A. STEVENS
11/13/25
SOUTH CAROLINA MABRY ENGINEERING ASSOCIATES, INC. No. C03489 CERTIFICATE OF AUTHORIZATION

Project
SUBERTOWN RD/GARY ST SIDEWALK PROJECT
Whitmire, SC Newberry County
STRUCTURAL NOTES and SECTIONS

Mabry Engineering Associates, Inc.
Structural Engineers
840 Shull Street
Suite 100
West Columbia, S.C. 29169
(803) 926-0000

Project Number
25-3435

Sheet
S1