# CONSTRUCTION PLANS FOR CROSS CREEK SUBDIVISION PHASE 3

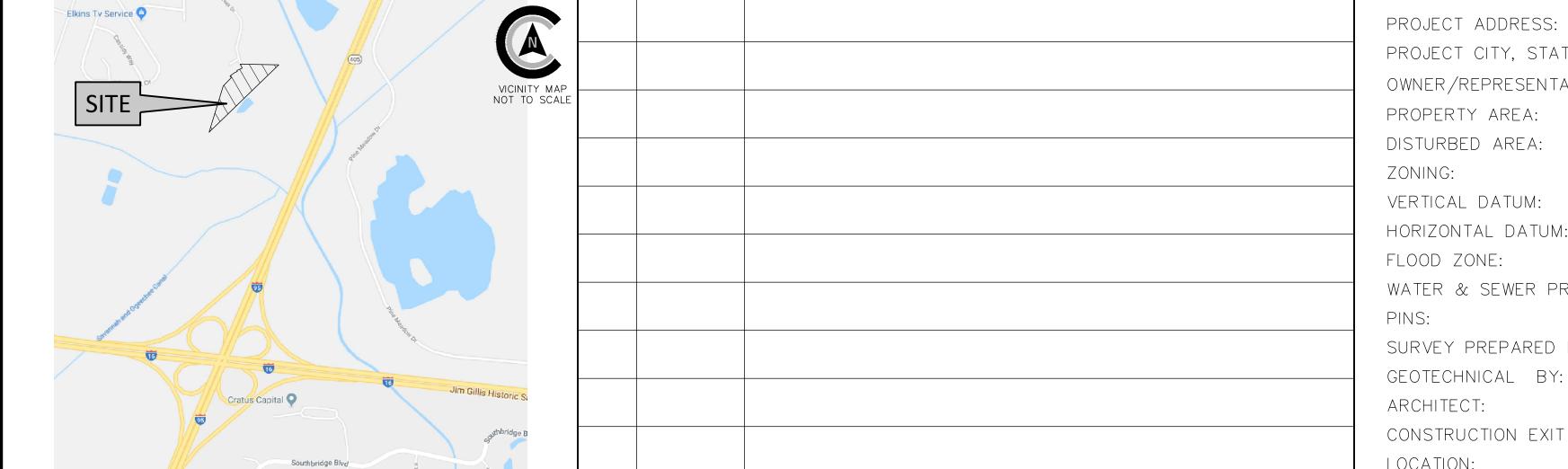
# PREPARED FOR HARMONY PARTNERS, LLC

I CERTIFY THAT ALL LAND DISTURBING ACTIVITIES AND DEVELOPMENT ACTIVITIES WILL BE COMPLETED IN R MANAGEMENT DESIGN PLAN.

I CERTIFY THAT THIS DESIGN (INCLUDING THE STORMWATER MANAGEMENT SYSTEM) MEETS THE REQUIREMENTS OF THE CITY OF POOLER AND THE LATEST EDITION OF THE COASTAL STORMWATER SUPPLEMENT TO THE GEORGIA STORMWATER MANAGEMENT MANUAL, AND ANY RELEVANT LOCAL ADDENDA.

NEIL P McKENZIE, PE ENGINEER'S NAME (PRINTED) GEORGIA PE NUMBER: PE036652 GSWCC LEVEL II CERTIFICATION NUMBER: 44944

VICINITY MAP (N.T.S.) REVISIONS PROJECT SITE DATA



PROJECT ADDRESS: PROJECT CITY, STATE: OWNER/REPRESENTATIVE: PROPERTY AREA: DISTURBED AREA: ZONING: VERTICAL DATUM: HORIZONTAL DATUM: FLOOD ZONE: WATER & SEWER PROVIDER: SURVEY PREPARED BY:

 $\pm 26.00$ JABOT PUD NAVD 88 NAD 83 X,AE POOLER 51010 01001A COLEMAN COMPANY, INC. NΑ NΑ 32.0878 LAT - (-)81.2464

PINE BARREN ROAD

HARMONY PARTNERS, LLC

POOLER, GEORGIA

89.72 ACRES

Sheet Number Sheet Title COV C0.0 **CONSTRUCTION NOTES** SHEET INDEX C2.0 **EXISTING CONDITIONS** C2.1 **EXISTING CONDITIONS** C3.0 STAKING PLAN STAKING PLAN STAKING PLAN C4.0 GRADING PLAN **GRADING PLAN NEIGHBORHOOD GRADING PLAN NEIGHBORHOOD GRADING PLAN** C6.0 UTILITY PLAN UTILITY PLAN C7.0 WATER PROFILES C7.1 SEWER PROFILES STORM PROFILES C7.3 ROAD PROFILES **CONSTRUCTION DETAILS** C8.1 CONSTRUCTION DETAILS CONSTRUCTION DETAILS

LP1.0	LIGHTING PLAN
COV	ES&PC COVER SHEET
CE1.0	INITIAL ES&PC PLAN
CE1.1	INITIAL ES&PC PLAN
CE2.0	INTERM ES&PC PLAN
CE2.1	INTERM ES&PC PLAN
CE3.0	FINAL ES&PC PLAN
CE3.1	FINAL ES&PC PLAN
CE4.0	EROSION CONTROL DETAILS
CE4.1	EROSION CONTROL DETAILS
CE5.0	NPDES PERMIT NOTES
CE5.1	NPDES PERMIT NOTES
L1.0	Existing Conditions
L1.1	Existing Conditions
L2.0	Landscape Plan
L2.1	Landscape Plan
L3.0	Landscape Details

PLANNING & DEVELOPMENT

L3.1

APPROVED BY: riarles DATE: 04:03 pm, Dec 11 2025

CONSTRUCTION DETAILS

Landscape Details DEPARTMENT OF

09/08/2025 DRAWN BY: AS NOTED

COVER

2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.

AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE

3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR

4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM, NAVD 88.

5. A MINIMUM SHOULDER WIDTH OF 4 FEET WITH A MINIMUM TRANSVERSE SLOPE OF 5% WILL BE PROVIDED ADJACENT TO CURBS AND WALKS. ALL WALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM

6. MAXIMUM EARTH SLOPES WILL BE 3:1. GRADE FROM SHOULDER EDGE TO RIGHT- OF-WAY AT 1% MINIMUM. 7. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE

8. PROVIDE 1/2" EXPANSION JOINT IN NEW WALKS FOR DEPTH OF CONCRETE, WITH BITUMINOUS SEAL FOR TOP 1 INCH MINIMUM DEPTH AT ABUTMENTS WITH BUILDINGS OR OTHER CONCRETE STRUCTURES.

9. SAW-CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF

10. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING , EDGE OF SURFACE COURSE OR FACE OF CURBING UNLESS OTHERWISE NOTED.

11. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.

12. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILT" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS, TOP ELEVATIONS, PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL; SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES; THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STORMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE

13. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH CURRENT VERSION OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, AND AS DIRECTED BY THE ENGINEER. 14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL

MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. 15. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.

16. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL

17. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER RUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH HAY BALES OR OTHER APPROVED SILT BARRIERS TO MINIMIZE SOIL TRANSPORT OFF

18. ALL MATERIAL AND INSTALLATION PRACTICES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL MEET THE CURRENT REQUIREMENTS OF THE CITY OF POOLER AND CHATHAM COUNTY DEVELOPMENT REGULATIONS AND SPECIFICATIONS.

19. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING

20. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.

21. ANY DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHALL CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED. THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER.

22. PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.

23. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.

24 ANY STUMP HOLES OR OTHER DEPRESSIONS SHALL BE CLEARED OF LOOSE MATERIAL AND DERRIS AND SHALL THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHALL BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

25. ANY UTILITIES THAT UNDERLIE THE SITE SHALL BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

26. THE SUBGRADE SHALL BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHALL THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHALL BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM-D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOIL, THE AREA SHALL BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

27. ALL OF THE FILL FOR THIS PROJECT SHALL CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHALL BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.

28. ALL COMPACTION SHALL BE PERFORMED AT MATERIAL MOISTURE CONTENTS WITHIN 3 PERCENTAGES POINTS. PLUS, OR MINUS, OF OPTIMUM..

29. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CITY OF POOLER CONVEYANCE AND DISTRIBUTION

30. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO FOLLOW THE COMPREHENSIVE MONITORING PLAN PREPARED FOR THE DEVELOPER BY COLEMAN COMPANY, INC.

ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + 1"c.c. THREAD".

32. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY AMERICAN, DARLING, MUELLER OR M&H.

CONTRACTOR SHALL VERIFY THE STATIC WATER ELEVATION OF THE PROPOSED/EXISTING DRAINAGE SYSTEM EACH ROADSIDE INLET IS A COMPONENT OF AND NOT INSTALL THE UNDERDRAIN BELOW THAT STATIC ELEVATION.

34. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.

33. 50 L.F. OF 6" UNDERDRAIN AND ROCK SHALL BE INSTALLED FROM EACH SIDE OF EACH GRATE INLET.

35. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS.

36. CONTRACTOR(S) SHALL VERIFY THE LOCATION OF ALL UNDERGOUND UTILITIES. CONTRACTOR(S) ARE RESPONSIBLE FOR LOCATING, PROTECTING, REPAIRING, AND REPLACING ANY AND ALL UNDERGROUND UTILITIES DURING ALL PHASES OF CONSTRUCTION. COLEMAN COMPANY, INC. HAS MADE A DILIGENT EFFORT TO LOCATE ALL ABOVE AND BELOW GROUND UTILITIES BUT CANNOT GUARANTEE THAT ALL PRESENT UTILITIES HAVE BEEN IDENTIFIED. CONTRACTOR SHALL CALL UTILITY PROTECTION CENTER (1-800-282-7411) AT LEAST SEVENTY TWO (72) HOURS PRIOR TO DIGGING AND SHALL NOT BEGIN DIGGING UNTIL ALL UNDERGROUND UTILITY LOCATIONS

37. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED AT THE CONTRACTOR'S EXPENSE.

38. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 30" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.

39. ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED ABOVE.

40. A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO TOP OF VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.

41. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. SERVICES SHALL BE MARKED WITH MARKING TAPE AND TRACER WIRE AS DESCRIBED

42. TRACER WIRE SHALL BE REQUIRED ON ALL STORM PIPE.

43. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON SITE AT ALL TIMES DURING LAND DISTURBING

44. THE CONTRACTOR SHALL HAVE A CERTIFIED EROSION AND SEDIMENTATION CONTROL INSPECTOR ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.

45. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF POOLER AND POOLER COUNTY'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.

46. ALL CURB AND GUTTER TO BE 18" MOUNTABLE CONCRETE CURB AND GUTTER UNLESS OTHERWISE NOTED THE

47. FOR CITY WATER AND SEWER LINE LOCATIONS, CONTACT THE UTILITIES PROTECTION CENTER (1-800-282-7411) A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.

48. STORM SEWER SPECIFICATIONS FOR MANHOLE COVER IN STREET:

GENERAL: ALL CASTINGS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA BY NEENAH FOUNDRY COMPANY, U.S. FOUNDRY & MANUFACTURING CORPORATION, EAST JORDAN IRON WORKS, INC. OR APPROVED EQUAL. THEY SHALL BE OF UNIFORM QUALITY, FREE FROM SAND HOLES, SHRINKAGE, CRACKS, COLD SHUTS OR OTHER DEFECTS. CASTINGS SHALL BE SMOOTH AND WELL CLEANED BY SHOT BLASTING

MATERIALS: GRAY IRON CASTINGS SHALL BE MANUFACTURED FROM IRON CONFORMING TO ASTM A48 CLASS 35B AND ASTM A48 CLASS 30. DUCTILE IRON CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER PROPERLY. ROUND MANHOLE FRAMES, COVERS AND GRATES SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING. TOLERANCES SHALL BE ACCEPTED FOUNDRY STANDARDS AS OUTLINED IN THE IRON CASTINGS HANDBOOK PUBLISHED BY THE AMERICAN FOUNDRYMEN'S SOCIETY, INC. CASTING'S WEIGHT SHALL NOT VARY MORE THAN 5% ABOVE OR BELOW THOSE VALUES REPRESENTED BY THE MANUFACTURER.

MARKINGS: ALL CASTINGS SHALL BE CLEARLY MARKED WITH THE MANUFACTURE'S NAME, COMPANY LOGO AND "MADE IN USA" IN CAST LETTERS. ADDITIONALLY, THE TOP OR TRAFFIC SIDE OF ALL CASTINGS SHALL BE CLEARLY MARKED "STORM" AND "CITY OF POOLER" IN FLUSH CAST LETTERS AND THE TOP OR TRAFFIC SIDE OF ALL CASTINGS DESIGNED TO COLLECT WATER, (CATCH BASINS, GRATES, ETC.) SHALL BE CLEARLY MARKED "DRAINS TO RIVER - DO NOT DUMP" OR SIMILAR VERBIAGE THAT ACHIEVES THE SAME MEANING.

49. INTERNATIONAL FIRE CODE, 2021 EDITION:

ACCESS FOR FIREFIGHTING 3311.1 REQUIRED ACCESS. APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET (30.5 METERS) OF TEMPORARY

FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL

WATER SUPPLY FOR FIRE PROTECTION 3313.1 AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE, ON COMMENCEMENT OF VERTICAL COMBUSTIBLE CONSTRUCTION AND ON INSTALLATION OF A STANDPIPE SYSTEM IN BUILDINGS UNDER CONSTRUCTION, IN ACCORDANCE WITH SECTIONS 3313.2 THROUGH 3313.5.

50. IN THE CASE OF ANY CONFLICT OF THESE CONSTRUCTION DOCUMENTS AND THE CITY OF POOLER CODIFIED ORDINANCES, STANDARDS, SPECIFICATIONS, OR DETAILS, THE CITY OF POOLER STANDARDS ARE TO TAKE

51. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY INTO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC RIGHT OF WAY. THE CONSTRUCTION EXIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS, MATERIALS, DIMENSIONS, ETC. AS DESCRIBED IN THE CURRENT VERSION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S "MANUAL FOR EROSION AND SEDIMENT CONTROL".

52. MAXIMUM BUILDING HEIGHT IS TO BE 35' PER APPENDIX A ARTICLE III, SECTION 6 OF THE CITY OF POOLER CODIFIED ORDINANCES.

DESIGN PROFESSIONAL'S CREDENTIALS: ENGINEER'S NAME (PRINTED): NEIL P McKENZIE, PE GEORGIA PE NUMBER: PE036652 GSWCC LEVEL II CERTIFICATION NUMBER: 44944

PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

WATER - SEWER NOTES:

1. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE LATEST CITY OF POOLER

2. ANY PIPE, SOLDER AND FLUX USED DURING INSTALLATION OF THE WATER LINES MUST BE "LEAD FREE" IN ACCORDANCE WITH THE LATEST CITY OF POOLER

3. MAINTAIN MINIMUM HORIZONTAL/VERTICAL CLEARANCE IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

4. WHERE THE WATER MAIN CROSSES SEWER OR STORM PIPES, THE WATER LINE SHALL BE DUCTILE IRON IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

5. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE.

6. MAXIMUM COVER FOR THE WATER MAIN SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

7. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS OF SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER WITH INVERT DATA TO INSURE THERE

8. ALL FILLING AND HYDROSTATIC TESTING OF NEW MAINS SHALL BE COORDINATED WITH AND WITNESSED BY THE CITY'S INSPECTOR.

9. INTERNAL FIRE SPRINKLER PROTECTION IS TO BE DESIGNED AND SUBMITTED SEPARATELY, BY OTHERS, TO BUILDING INSPECTIONS AS NECESSARY.

10. INDUSTRIAL WASTEWATER DISCHARGE IS NOT ANTICIPATED NOR DESIGNED FOR WITH THIS DEVELOPMENT.

11. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR

DEVELOPMENT REQUIREMENTS: JABOT PUD AMD #18

FRONT SETBACK: 25 SIDE YARD SETBACKS: 5

REAR YARD SETBACK: 20

MAXIMUM IMPERVIOUS AREA: 60% MINIMUM LOT AREA: 4,400 SQ.FT. MINIMUM LOT WIDTH: 40 FT. TOTAL SITE AREA = 26.121 AC. **POND AREA = 4.638 AC** 

USABLE SITE AREA = TOTAL SITE AREA - POND AREA **26.121 AC. - 4.638 AC = 21.483 AC.** GREEN SPACE PROVIDED = 8.4798 AC % OF GREEN SPACE PROVIDED = (GREEN SPACE

PROVIDED / USABLE SITE AREA) X 100

(8.4798 AC / 21.483 AC ) X 100 = 39.47 %

SITE INFORMATION:

SIZE: ±89.00 AC

RESIDENTIAL

PARENT PIN: 5101001001A ZONING DISTRICT: JABOT PUD FLOOD ZONE: X, AE-12

PROPOSED LAND USE: SINGLE-FAMILY

EROSION CONTROL NOTES:

1. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES (BMP) DURING ALL PHASES OF CONSTRUCTION AND SHALL INSTALL & MAINTAIN ALL EROSION CONTROL MEASURES ON THE SITE AT ALL TIMES IN ACCORDANCE WITH THESE PLANS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"

2. NARRATIVE DESCRIPTION:

LOCATION: PINE BARREN ROAD POOLER, GEORGIA

NATURE OF WORK: SINGLE FAMILY SUBDIVISION AS AN EXTENSION OF A PREVIOUS

SIZL:
TOTAL PROPERTY ACREAGE: ±89.00 AC DISTURBED ACREAGE: ±22.00 AC

ZONING CLASSIFICATION: JABOT PUD

MAXIMUM BUILDING HEIGHT: 35 PHASES: THE WORK WILL BE PERFORMED IN TWO PHASES.

3. THERE ARE APPARENT WATERS OF THE UNITED STATES WITHIN 200 FEET OF THE PROJECT SITE.

4. THERE ARE APPARENT WETLANDS PRESENT ON THE PROPERTY.

5. ALL SUITABLE TOPSOIL WILL BE STOCKPILED BY THE CONTRACTOR AND SPREAD IN PROPOSED VEGETATIVE AREAS PRIOR TO LANDSCAPE INSTALLATION.

6. THE SOILS ON SITE ARE: Cc (CAPE FEAR SOILS), Mn (MASCOTTE SAND), Oi (OCILLA COMPLEX), Ok (OGEECHEE LOAMY FINE SAND), OI (OLUSTEE FINE SAND), W

7. THIS SITE IS CURRENTLY UNDEVELOPED

8. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE

9. THE CONTRACTOR SHALL ENSURE THAT STRUCTURAL EROSION CONTROL MEASURES ARE INSPECTED DAILY. ANY DEFICIENCIES, INCLUDING SEDIMENT ACCUMULATION AND REMOVAL, OBSERVED SHALL BE CORRECTED BY THE END OF THAT DAY'S WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A DAILY INSPECTION LOG AND NOTIFYING THE OWNER AND ENGINEER OF ANY DEFICIENCIES IDENTIFIED IN THE EROSION CONTROL MEASURES. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE STABILIZED.

10. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

11. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

12. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

13. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THIS PROJECT SITE DOES NOT APPEAR TO LIE IN A FLOOD HAZARD AREA AS DEPICTED ON FIRM PANEL NO. 13051C0109F EFFECTIVE DATE: AUGUST 16, 2018.

14. CONTACT INFORMATION:

<u>CIVIL EN</u>GINEER: OWNER/REPRESENTATIVE NEIL P. MCKENZIE, PE CONTACT: HARMONY COLEMAN COMPANY, INC. PARTNERS, LLC 1480 CHATHAM PKWY. ATTN: COLE CHENOWITH SAVANNAH, GA 31405 2702 WHATLEY AVENUE P: 912.200.3041 SAVANNAH, GA 31404 F: 912.200.3056 cchenowith@landmark24.com

REMOVED ONCE FINAL STABILIZATION IS ACHIEVED.

16. THE INITIAL RECEIVING WATER FOR THIS PROJECT ARE THE WETLANDS AND THEN TO AN UNNAMED TRIBUTARY TO SAVANNAH AND OGEECHEE CANAL, AND THE FINAL RECEIVING WATERS IS LITTLE OGEECHEE RIVER. 17. ANY ON-SITE FUEL STORAGE TANK MUST BE PROTECTED FROM LEAKS, SPILLS, AND RUPTURE AS PER APPLICABLE CODES. 18. SILT FENCE MUST BE INSPECTED DAILY FOR FAILURES AND CLEANED OUT WHEN SILT REACHES 1/2 THE FENCE HEIGHT. 19. ALL TEMPORARY BMPS FOR EROSION & SEDIMENT CONTROL SHALL BE

ADA NOTES:

1. ACCESSIBLE ROUTE - EXTERIOR:

MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.

2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS: A. O TO 1/4": NO REQUIREMENTS

B. 1/4" TO 1/2": BEVEL WITH 1:2 SLOPE

C. LARGER THAN 1/2": CONFORM TO REQUIREMENTS FOR RAMP RAMPS: •• MAX RAMP SLOPE 8.33% (1:12)

•• RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE •• MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF

RAMP IS 30')

•• MAX CROSS SLOPE OF RAMP 2% (1:50) A. LANDINGS RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH

LANDINGS SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT. LANDING LENGTH SHALL BE MINIMUM 5' CLEAR

IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.

B. HANDRAILS: HANDRAILS ARE REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN

HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6". PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM

PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS. ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO STAIRS ARE NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF

ADJACENT TO ROUTE OR PART OF TENANT THEY SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS. 4. CURB RAMPS

•• MAX SLOPE OF CURB RAMP 8.33% MAX SLOPE OF SIDE FLARES 10%

7. SIGNAGE

MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE

•• MIN WIDTH 36" (NOT INCLUDING SIDE FLARES). DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHT OF WAYS, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.

5. PAVEMENT MARKINGS AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)

6. PARKING SPACES •• MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE

•• MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES

•• MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION

ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE (SIGNAGE TO BE INSTALLED AT A MINIMUM HEIGHT OF 7' TO BOTTOM OF VAN ACCESSIBLE DESIGNATION, AND 7' MINIMUM TO THE BOTTOM OF ALL OTHER SIGN FACES).

8. ACCESSIBLE ROUTES: MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003 M 0 

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**REVISIONS:** 

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SCALE: **AS NOTED** CONSTRUCTION

NOTES

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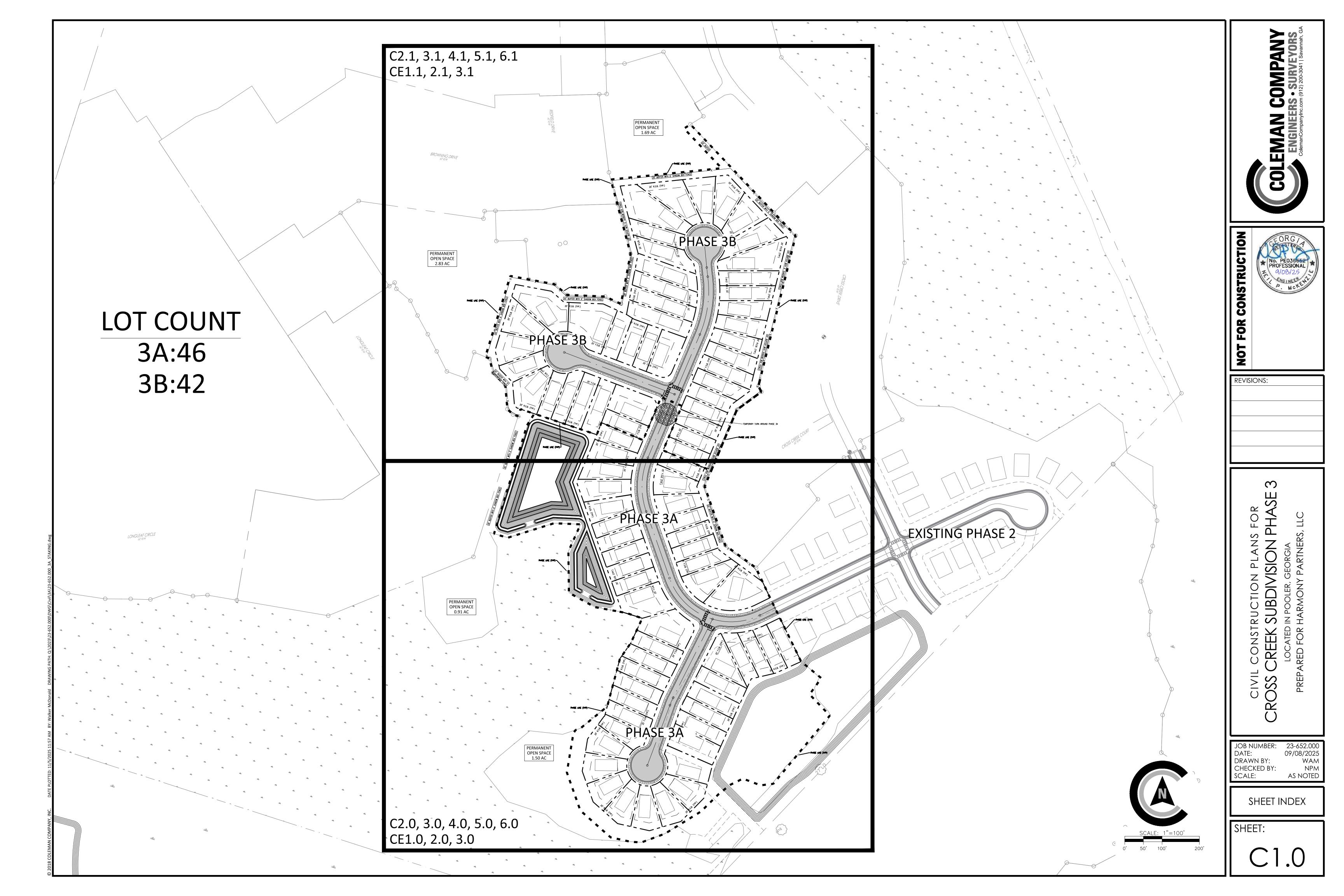
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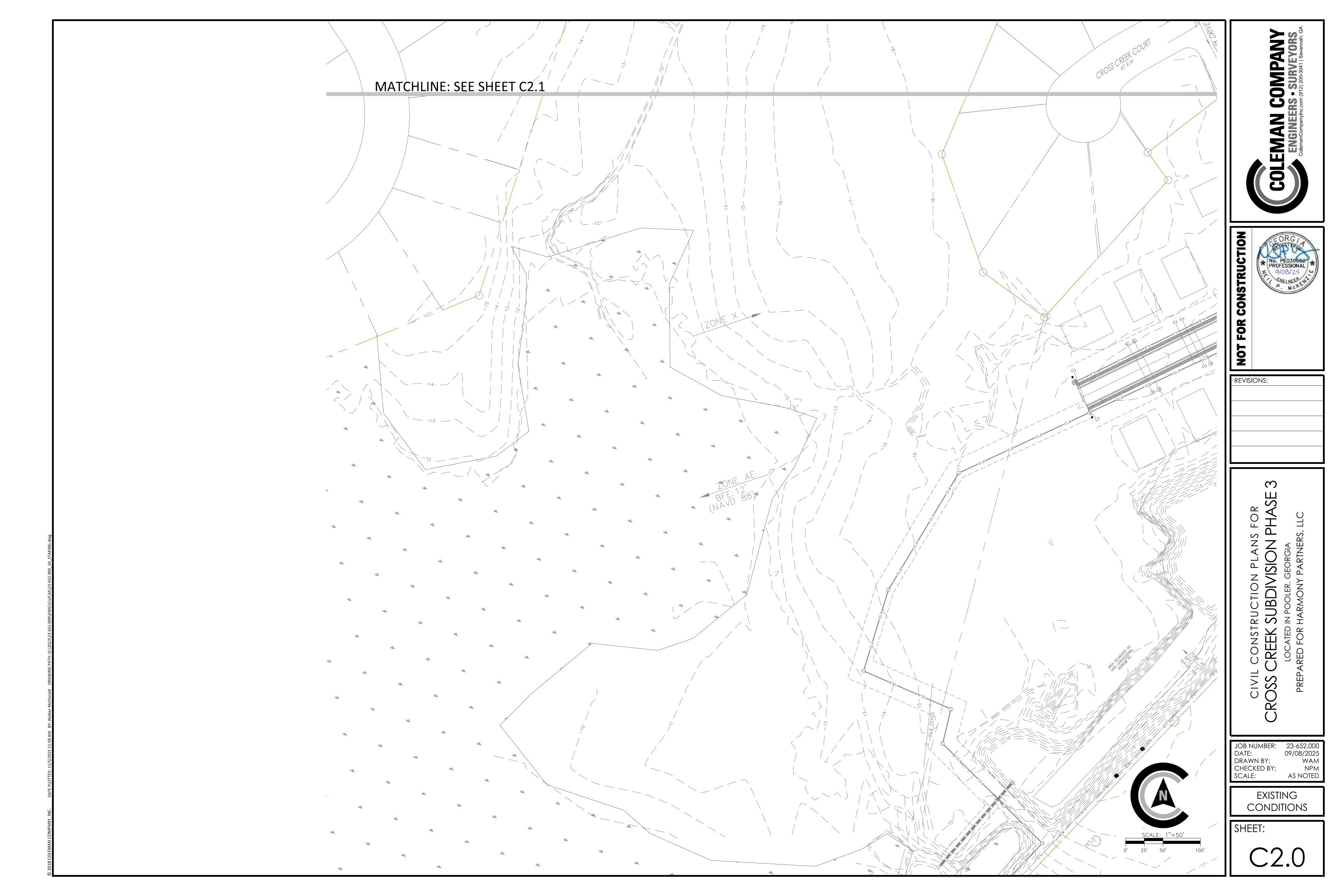
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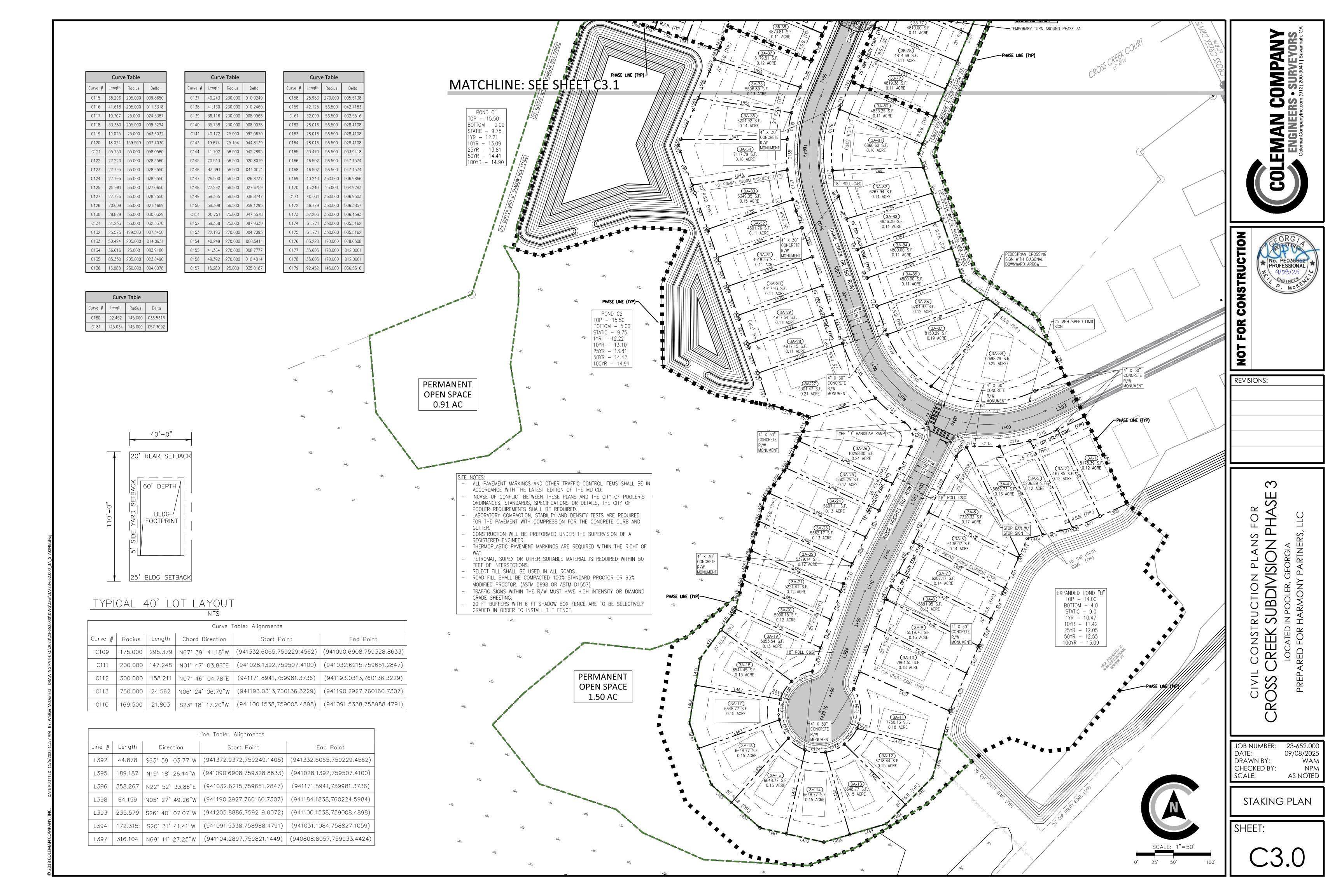
Know what's **below**.

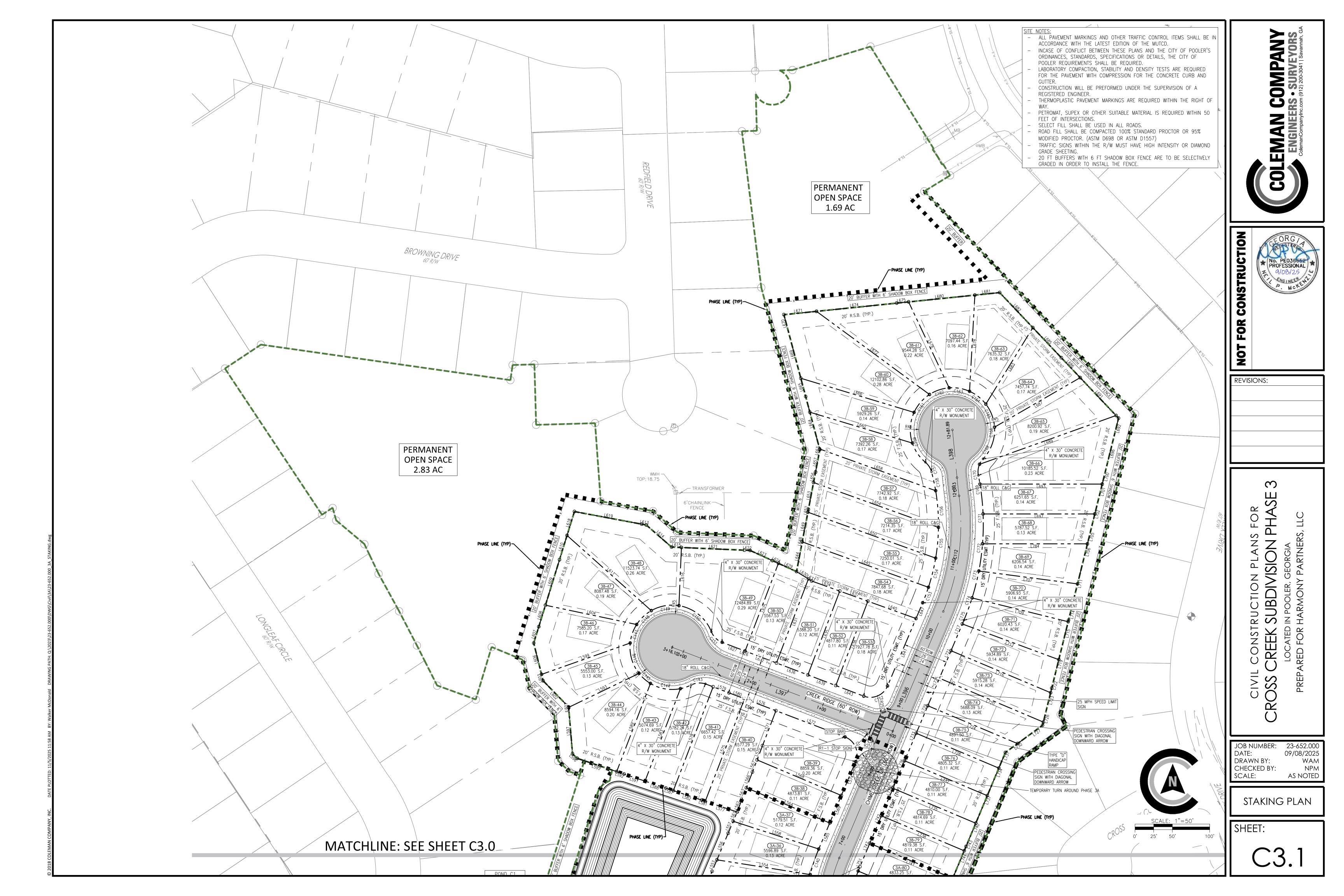
Call before you dig.











	LINE TABLE					
LINE #	LENGTH	DIRECTION				
L402	130.000	S26° 00' 56.23"E				
L400	128.919	N26° 00' 56.23"W				
L404	129.831	N26° 00' 56.23"W				
L409	131.975	N26° 00' 56.23"W				
L413	161.452	N26° 00' 56.23"W				
L418	135.423	N63° 19' 52.93"W				
L422	137.291	N63° 19' 52.93"W				
L425	139.150	N63° 27' 04.41"W				
L429	139.617	N63° 27' 04.41"W				
L434	136.374	N63° 27' 04.41"W				
L442	114.335	N75° 33' 27.17"W				
L446	114.960	N45° 18' 39.39"W				
L450	114.960	N16° 21' 21.30"W				
L454	114.960	N12° 35' 56.78"E				
L458	114.960	N41° 33' 14.87"E				
L463	114.960	N70° 30' 32.96"E				
L467	114.960	S80° 32' 08.95"E				
L472	117.130	S53° 53' 46.31"E				
L476	125.575	S65° 32' 49.86"E				
L482	128.932	S65° 32' 49.86"E				

	LINE	TABLE	
LINE #	LENGTH	DIRECTION	
L486	132.288	S65° 32' 49.86"E	
L490	137.717	S65° 32' 49.86"E	
L495	143.070	S65° 32' 49.86"E	
L500	137.286	S65° 32' 49.86"E	
L504	138.250	S65° 32' 49.86"E	
L508	92.276	N74° 02' 27.46"E	
L401	40.000	N63° 59' 03.77"E	
L419	83.578	N26° 40' 07.07"E	
L423	45.000	N26° 40' 07.07"E	
L426	45.052	N26° 40' 07.07"E	
L430	1.155	N19° 37' 10.87"E	
L432	20.870	N26° 40' 07.07"E	
L435	40.294	N19° 37' 10.87"E	
L438	62.496	N19° 37' 10.87"E	
L444	24.149	N19° 37' 10.87"E	
L477	33.239	S19° 37' 10.87"W	
L483	40.143	S19° 37' 10.87"W	
L487	40.143	S19° 37' 10.87"W	
L493	11.005	S19° 37' 10.87"W	
L496	40.030	S26° 40' 07.07"W	

LINE TABLE

LINE TABLE				
LINE #	LENGTH	DIRECTION		
L501	40.030	S26° 40' 07.07"W		
L505	40.030	S26° 40' 07.07"W		
L511	55.517	S26° 40' 07.07"W		
L520	41.000	S19° 18' 26.14"E		
L523	41.000	S19° 18' 26.14"E		
L527	41.000	S19° 18' 26.14"E		
L531	41.000	S19° 18' 26.14"E		
L535	41.000	S19° 18' 26.14"E		
L540	23.925	S19° 18' 26.14"E		
L565	37.861	S22° 52' 33.86"W		
L569	39.996	S22° 52' 33.86"W		
L572	99.020	S69° 11' 27.25"E		
L574	49.125	S22° 52' 33.86"W		
L576	45.000	S69° 11' 27.25"E		
L579	22.782	S69° 11' 27.25"E		
L580	22.218	S69° 11' 27.25"E		
L626	0.208	N69° 11' 27.25"W		
L627	32.701	N69° 11' 27.25"W		
L632	45.000	N69° 11' 27.25"W		
L636	45.000	N69° 11' 27.25"W		

LINE TABLE

LINE TABLE				
LINE #	LENGTH	DIRECTION		
L607	22.945	N17° 11' 51.41"E		
L608	30.185	N17° 11' 51.41"E		
L609	63.849	N17° 11' 51.41"E		
L610	33.940	N17° 11' 51.41"E		
L613	6.308	S79° 23' 56.14"E		
L614	44.913	S48° 51' 01.14"E		
L615	13.197	S87° 33′ 21.14″E		
L618	33.499	N17° 11' 51.41"E		
L619	91.656	S79° 23′ 56.14″E		
L621	84.384	S87° 33' 21.14"E		
L622	7.628	S87° 33' 21.14"E		
L623	32.828	S65° 31' 01.14"E		
L624	8.882	S65° 31' 01.14"E		
L629	26.695	S65° 31' 01.14"E		
L644	40.484	N10° 48' 28.86"E		
L648	0.101	N10° 48' 28.86"E		
L649	40.394	N10° 48' 28.86"E		
L652	3.771	N10° 48' 28.86"E		
L653	36.724	N10° 48' 28.86"E		
L656	14.246	N10° 48' 28.86"E		

	TABLE	LIIVL	
LINE #	DIRECTION	LENGTH	LINE #
L705	N10° 48' 28.86"E	30.513	L657
L706	N10° 48' 28.86"E	30.513	L663
L711	N14° 53' 56.14"W	51.009	L664
L714	N14° 53' 56.14"W	25.439	L665
L715	N14° 53' 56.14"W	88.102	L669
L719	N14° 53' 56.14"W	88.102	L670
L722	N84° 09' 00.89"E	43.879	L671
L723	N84° 09' 00.89"E	107.946	L674
L726	N84° 09' 00.89"E	16.048	L675
L727	N84° 09' 00.89"E	89.190	L680
L730	N84° 09' 00.89"E	33.383	L681
L731	S43° 25' 56.14"E	64.632	L682
L734	S43° 25' 56.14"E	55.522	L685
L737	S43° 25' 56.14"E	36.738	L686
L740	S43° 25' 56.14"E	69.817	L691
L743	S13° 53' 43.86"W	90.961	L692
L744	S13° 53' 43.86"W	90.961	L696
L745	S13° 53' 43.86"W	90.961	L700
L748	S13° 53' 43.86"W	41.036	L701
L752	S13° 53' 43.86"W	41.036	L702

	LINE	TABLE		LINE	TABLE	
LINE #	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION	
L657	30.513	N10° 48' 28.86"E	L705	41.206	S13° 53' 43.86	
L663	30.513	N10° 48' 28.86"E	L706	55.134	S13° 53' 43.86	
L664	51.009	N14° 53' 56.14"W	L711	55.134	S13° 53' 43.86	
L665	25.439	N14° 53' 56.14"W	L714	50.059	S13° 53' 43.86	
L669	88.102	N14° 53' 56.14"W	L715	52.355	S13° 53' 43.86'	
L670	88.102	N14° 53' 56.14"W	L719	39.260	S13° 53' 43.86'	
L671	43.879	N84° 09' 00.89"E	L722	39.260	S13° 53' 43.86'	
L674	107.946	N84° 09' 00.89"E	L723	40.496	S13° 53' 43.86'	
L675	16.048	N84° 09' 00.89"E	L726	40.496	S13° 53' 43.86'	
L680	89.190	N84° 09' 00.89"E	L727	41.516	S53° 46' 43.86'	
L681	33.383	N84° 09' 00.89"E	L730	20.258	S53° 46' 43.86'	
L682	64.632	S43° 25' 56.14"E	L731	22.618	S22° 42' 29.75'	
L685	55.522	S43° 25' 56.14"E	L734	40.000	S22° 42' 29.75'	
L686	36.738	S43° 25' 56.14"E	L737	40.000	S22° 42' 29.75'	
L691	69.817	S43° 25' 56.14"E	L740	33.726	S22° 42' 29.75'	
L692	90.961	S13° 53' 43.86"W	L743	33.726	S22° 42' 29.75'	
L696	90.961	S13° 53′ 43.86"W	L744	40.000	S22° 42' 29.75'	
L700	90.961	S13° 53' 43.86"W	L745	39.888	S22° 42' 29.75'	
L701	41.036	S13° 53' 43.86"W	L748	39.888	S22° 42' 29.75'	
L702	41.036	S13° 53' 43.86"W	L752	14.115	S22° 42' 29.75'	

	LINE	TABLE
LINE #	LENGTH	DIRECTION
L639	40.000	N69° 11' 27.25"W
L641	98.008	S22° 52' 33.86"W
L643	40.000	N69° 11' 27.25"W
L647	22.848	S22° 52' 33.86"W
L717	38.878	N22° 52' 33.86"E
L721	40.000	N22° 52' 33.86"E
L725	40.000	N22° 52' 33.86"E
L729	40.000	N22° 52' 33.86"E
L733	40.000	N22° 52' 33.86"E
L736	40.000	N22° 52' 33.86"E
L739	40.000	N22° 52' 33.86"E
L742	40.000	N22° 52' 33.86"E
L747	33.943	N22° 52' 33.86"E
L751	33.943	N22° 52' 33.86"E
L758	32.165	N19° 18' 26.14"W
L763	43.862	N19° 18' 26.14"W
L766	40.000	N19° 18' 26.14"W
L771	40.000	N19° 18' 26.14"W
L775	33.160	N19° 18' 26.14"W
L782	44.878	S63° 59' 03.77"W

LINE #	LENGTH	DIRECTION
L519	119.926	N70° 40' 45.88"E
L399	40.015	S65° 31' 54.75"W
L403	5.324	S76° 46' 48.57"W
L407	34.821	S65° 31' 54.75"W
L408	25.154	S76° 46' 48.57"W
L411	15.864	S76° 46' 48.57"W
L412	25.176	S24° 17' 29.05"W
L416	21.153	S76° 46' 48.57"W
L417	2.949	S24° 17' 29.05"W
L421	45.039	S24° 17' 29.05"W
L424	37.894	S24° 17' 29.05"W
L427	6.905	S24° 17' 29.05"W
L428	40.031	S24° 17' 29.05"W
L433	37.889	S24° 13′ 42.84"W
L436	2.143	S24° 17' 29.05"W
L439	53.082	S24° 13′ 42.84"W
L440	2.277	S14° 37' 53.46"W
L441	53.488	S14° 37' 53.46"W
L445	51.276	S44° 41' 20.61"W
L448	38.239	S14° 37' 53.46"W
	LINE	ΓABLE

LINE #	LENGTH	DIRECTION
L449	51.276	S73° 38' 38.70"W
L452	36.224	S44° 41' 20.61"W
L453	51.276	N77° 24' 03.22"W
L456	36.224	S73° 38' 38.70"W
L457	51.276	N48° 26' 45.13"W
L461	36.224	N77° 24' 03.22"W
L462	51.276	N19° 29' 27.04"W
L465	36.224	N48° 26' 45.13"W
L466	51.276	N09° 27' 51.05"E
L470	36.224	N19° 29' 27.04"W
L471	47.606	N36° 06' 13.69"E
L474	36.224	N09° 27' 51.05"E
L475	4.868	N14° 53' 24.73"E
L479	26.131	N36° 06' 13.69"E
L480	3.249	N48° 47' 52.00"E
L481	8.142	N14° 53' 24.73"E
L484	32.422	N14° 53' 24.73"E
L485	8.569	N14° 53' 24.73"E
L488	31.995	N14° 53' 24.73"E
L489	40.564	N14° 53' 24.73"E

LINE #	LENGTH	DIRECTION
L753	19.303	S19° 18′ 26.14″E
L756	36.555	S19° 18' 26.14"E
L760	22.763	S19° 18′ 26.14″E
L761	15.647	S19° 18′ 26.14″E
L764	40.000	S19° 18′ 26.14"E
L767	24.353	S19° 18′ 26.14″E
L768	15.647	S19° 18′ 26.14"E
L769	40.842	S53° 49′ 36.14″E
L772	40.842	S53° 49′ 36.14″E
L776	23.467	S53° 49′ 36.14″E
L777	80.062	S53° 49' 36.14"E
L780	80.062	S53° 49′ 36.14″E
L773	140.088	S42° 31' 08.25"W
L770	142.964	S70° 24′ 47.97"W
L765	120.000	S70° 41′ 33.86"W
L762	120.000	S70° 41′ 33.86"W
L757	120.000	S70° 41′ 33.86"W
L754	120.124	S73° 17' 38.91"W
L749	121.851	S88° 04' 39.22"W
L746	120.543	N67° 18' 18.69"W

LINE TABLE

	LINE #	LENGTH	DIRECTION
E	L534	119.964	N70° 40' 45.8
E	L538	120.536	N70° 40' 45.8
E	L568	122.498	S67° 07' 26.1
Е	L564	121.159	S67° 07' 58.3
Е	L558	120.440	S72° 01' 24.4
Е	L554	126.476	S81° 01' 12.9
Ε	L547	142.352	N89° 58' 58.5
Е	L543	128.927	N80° 59' 10.0
E	L589	126.391	N20° 57' 35.8
E	L583	132.548	N20° 57' 35.8
E	L578	148.833	N20° 57' 35.8
E	L575	147.052	N20° 57' 35.8
W	L611	151.254	S48° 15' 47.9
W	L604	124.877	S78° 02' 39.2
W	L599	125.955	N70° 31' 26.5
W	L593	104.666	N64° 13' 10.1
W	L616	77.965	S02° 26' 38.8
W	L625	125.663	S20° 48' 32.7
W	L631	120.345	S20° 48' 32.7
W	L635	120.084	S20° 48' 32.7

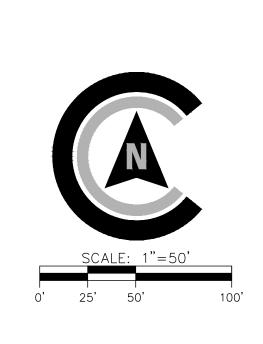
	LINE	TABLE		LINE	TABLE
#	LENGTH	DIRECTION	LINE #	LENGTH	DIRECTION
	119.964	N70° 40' 45.88"E	L638	120.806	S20° 48′ 32.75″W
	120.536	N70° 40' 45.88"E	L658	165.111	S70° 13' 28.22"E
	122.498	S67° 07' 26.14"E	L654	177.783	S70° 13' 28.22"E
	121.159	S67° 07' 58.36"E	L650	181.844	S70° 13' 28.22"E
	120.440	S72° 01' 24.41"E	L645	179.651	S70° 13' 28.22"E
	126.476	S81° 01' 12.94"E	L634	40.007	S70° 13' 28.22"E
	142.352	N89° 58' 58.53"E	L637	40.007	S70° 13' 28.22"E
	128.927	N80° 59' 10.00"E	L640	68.530	S70° 13' 28.22"E
	126.391	N20° 57' 35.89"E	L660	143.417	S73° 13' 42.42"E
	132.548	N20° 57' 35.89"E	L666	158.407	S73° 13' 42.42"E
	148.833	N20° 57' 35.89"E	L676	127.238	S25° 15' 00.37"E
	147.052	N20° 57' 35.89"E	L672	187.905	S53° 39' 39.26"E
	151.254	S48° 15' 47.90"E	L687	132.458	S59° 58' 56.29"W
	124.877	S78° 02' 39.24"E	L683	120.206	S31° 34' 17.40"W
	125.955	N70° 31' 26.58"E	L678	129.034	S03° 09' 38.52"W
	104.666	N64° 13' 10.17"E	L741	120.543	N67° 07' 26.14"W
	77.965	S02° 26' 38.86"W	L738	120.426	N67° 07' 26.14"W
	125.663	S20° 48′ 32.75″W	L735	120.309	N67° 07' 26.14"W
	120.345	S20° 48' 32.75"W	L732	120.191	N67° 07' 26.14"W
	120.084	S20° 48' 32.75"W	L728	120.074	N67° 07' 26.14"W

	LINE	TABLE
LINE #	LENGTH	DIRECTION
L494	8.478	N34° 50' 22.95"E
L497	4.305	N14° 53′ 24.73″E
L498	27.802	N14° 53' 24.73"E
L499	36.230	N34° 50' 22.95"E
L502	4.437	N34° 50' 22.95"E
L503	35.872	N24° 52' 55.04"E
L506	1.643	N34° 50' 22.95"E
L507	2.513	N24° 52' 55.04"E
L512	4.148	N24° 52' 55.04"E
L513	30.523	N24° 52' 55.04"E
L514	10.306	N71° 29' 51.85"W
L515	40.873	N72° 46' 04.83"W
L516	4.981	N79° 26' 51.57"W
L517	37.356	N19° 19' 14.12"W
L518	8.243	N19° 19' 14.12"W
L524	36.382	N19° 19' 14.12"W
L525	4.618	N19° 19' 14.12"W
L528	35.397	N19° 19' 14.12"W
L529	5.603	N19° 19' 14.12"W
L532	34.397	N19° 19' 14.12"W

L536         33.563         N19°         19'         14.12°W           L537         7.437         N19°         19'         14.12°W           L541         37.878         N19°         19'         14.12°W           L542         2.122         N19°         19'         14.12°W           L545         51.314         N19°         19'         14.12°W           L546         11.446         N19°         19'         14.12°W           L549         47.830         N19°         19'         14.12°W           L550         8.357         N19°         19'         14.12°W           L551         8.910         N22°         52'         33.86°E           L552         43.380         N22°         52'         33.86°E           L553         16.717         N22°         52'         33.86°E           L556         38.650         N22°         52'         33.86°E           L561         13.491         N22°         52'         33.86°E           L562         16.472         N20°         57'         35.89°E           L563         18.186         N20°         57'         35.89°E           L566         22.694 <th></th> <th></th> <th></th>			
L533         6.603         N19° 19′ 14.12″W           L536         33.563         N19° 19′ 14.12″W           L537         7.437         N19° 19′ 14.12″W           L541         37.878         N19° 19′ 14.12″W           L542         2.122         N19° 19′ 14.12″W           L545         51.314         N19° 19′ 14.12″W           L546         11.446         N19° 19′ 14.12″W           L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E		LINE	TABLE
L536         33.563         N19°         19'         14.12°W           L537         7.437         N19°         19'         14.12°W           L541         37.878         N19°         19'         14.12°W           L542         2.122         N19°         19'         14.12°W           L545         51.314         N19°         19'         14.12°W           L546         11.446         N19°         19'         14.12°W           L549         47.830         N19°         19'         14.12°W           L550         8.357         N19°         19'         14.12°W           L551         8.910         N22°         52'         33.86°E           L552         43.380         N22°         52'         33.86°E           L553         16.717         N22°         52'         33.86°E           L556         38.650         N22°         52'         33.86°E           L561         13.491         N22°         52'         33.86°E           L562         16.472         N20°         57'         35.89°E           L563         18.186         N20°         57'         35.89°E           L566         22.694 <th>LINE #</th> <th>LENGTH</th> <th>DIRECTION</th>	LINE #	LENGTH	DIRECTION
L537         7.437         N19° 19′ 14.12″W           L541         37.878         N19° 19′ 14.12″W           L542         2.122         N19° 19′ 14.12″W           L545         51.314         N19° 19′ 14.12″W           L546         11.446         N19° 19′ 14.12″W           L549         47.830         N19° 19′ 14.12″W           L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L533	6.603	N19° 19' 14.12"W
L541         37.878         N19° 19' 19' 14.12"W           L542         2.122         N19° 19' 14.12"W           L545         51.314         N19° 19' 19' 14.12"W           L546         11.446         N19° 19' 14.12"W           L549         47.830         N19° 19' 14.12"W           L550         8.357         N19° 19' 14.12"W           L551         8.910         N22° 52' 33.86"E           L552         43.380         N22° 52' 33.86"E           L553         16.717         N22° 52' 33.86"E           L556         38.650         N22° 52' 33.86"E           L557         17.410         N22° 52' 33.86"E           L561         13.491         N22° 52' 33.86"E           L562         16.472         N20° 57' 35.89"E           L563         18.186         N20° 57' 35.89"E           L566         22.694         N20° 57' 35.89"E           L567         17.344         N20° 57' 35.89"E	L536	33.563	N19° 19' 14.12"W
L542         2.122         N19° 19′ 14.12″W           L545         51.314         N19° 19′ 14.12″W           L546         11.446         N19° 19′ 14.12″W           L549         47.830         N19° 19′ 14.12″W           L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L537	7.437	N19° 19' 14.12"W
L545         51.314         N19° 19' 19' 14.12"W           L546         11.446         N19° 19' 14.12"W           L549         47.830         N19° 19' 14.12"W           L550         8.357         N19° 19' 14.12"W           L551         8.910         N22° 52' 33.86"E           L552         43.380         N22° 52' 33.86"E           L553         16.717         N22° 52' 33.86"E           L556         38.650         N22° 52' 33.86"E           L557         17.410         N22° 52' 33.86"E           L561         13.491         N22° 52' 33.86"E           L562         16.472         N20° 57' 35.89"E           L563         18.186         N20° 57' 35.89"E           L566         22.694         N20° 57' 35.89"E           L567         17.344         N20° 57' 35.89"E	L541	37.878	N19° 19' 14.12"W
L546         11.446         N19° 19′ 14.12″W           L549         47.830         N19° 19′ 14.12″W           L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L542	2.122	N19° 19' 14.12"W
L549         47.830         N19° 19′ 14.12″W           L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L545	51.314	N19° 19' 14.12"W
L550         8.357         N19° 19′ 14.12″W           L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L546	11.446	N19° 19' 14.12"W
L551         8.910         N22° 52′ 33.86″E           L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L549	47.830	N19° 19' 14.12"W
L552         43.380         N22° 52′ 33.86″E           L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L550	8.357	N19° 19' 14.12"W
L553         16.717         N22° 52′ 33.86″E           L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L551	8.910	N22° 52' 33.86"E
L556         38.650         N22° 52′ 33.86″E           L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L552	43.380	N22° 52' 33.86"E
L557         17.410         N22° 52′ 33.86″E           L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L553	16.717	N22° 52' 33.86"E
L561         13.491         N22° 52′ 33.86″E           L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L556	38.650	N22° 52' 33.86"E
L562         16.472         N20° 57′ 35.89″E           L563         18.186         N20° 57′ 35.89″E           L566         22.694         N20° 57′ 35.89″E           L567         17.344         N20° 57′ 35.89″E	L557	17.410	N22° 52' 33.86"E
L563       18.186       N20° 57' 35.89"E         L566       22.694       N20° 57' 35.89"E         L567       17.344       N20° 57' 35.89"E	L561	13.491	N22° 52' 33.86"E
<b>L566</b> 22.694 N20° 57' 35.89"E <b>L567</b> 17.344 N20° 57' 35.89"E	L562	16.472	N20° 57' 35.89"E
<b>L567</b> 17.344 N20° 57' 35.89"E	L563	18.186	N20° 57' 35.89"E
	L566	22.694	N20° 57' 35.89"E
<b>L570</b> 20.553 N20° 57' 35.89"E	L567	17.344	N20° 57' 35.89"E
	L570	20.553	N20° 57' 35.89"E

	LINE	TABLE
LINE #	LENGTH	DIRECTION
L571	50.024	N20° 57' 35.89"E
L522	119.935	N70° 40′ 45.88″E
L526	119.945	N70° 40' 45.88"E
L530	119.954	N70° 40' 45.88"E
L781	47.141	S25° 01' 28.58"E
L577	45.040	N71° 27' 23.79"W
L581	5.004	N71° 27' 23.79"W
L582	40.036	N71° 27' 23.79"W
L587	10.616	N71° 27' 23.79"W
L588	29.420	N71° 27' 23.79"W
L591	29.627	N71° 27' 23.79"W
L592	10.409	N71° 27' 23.79"W
L595	55.685	N71° 27' 23.79"W
L596	8.756	N46° 19' 16.14"W
L597	61.774	NO4° 47' 01.14"W
L598	0.688	NO4° 47' 01.14"W
L601	0.515	NO4° 47' 01.14"W
L602	48.954	N44° 11' 01.14"W
L603	8.826	N14° 01' 56.14"W
L606	43.188	N14° 01' 56.14"W

	LINE	TABLE
LINE #	LENGTH	DIRECTION
L724	130.412	N67° 07' 26.14"W
L720	151.043	N67° 07' 26.14"W
L716	144.721	N67° 07' 26.14"W
L712	137.740	N69° 41' 35.66"W
L709	132.586	N76° 06' 53.06"W
L707	133.282	N82° 34' 26.48"W
L784	140.508	N90° 00' 00.00"W
L697	149.677	N90° 00' 00.00"W
L693	163.727	N90° 00' 00.00"W
L689	194.107	S70° 20' 14.74"W
L437	131.628	N66° 24' 02.81"W
L630	18.711	S58° 04' 28.30"E
L633	5.096	S58° 04' 28.30"E



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REVISIONS:

CIVIL CONSTRUCTION PLANS FOR

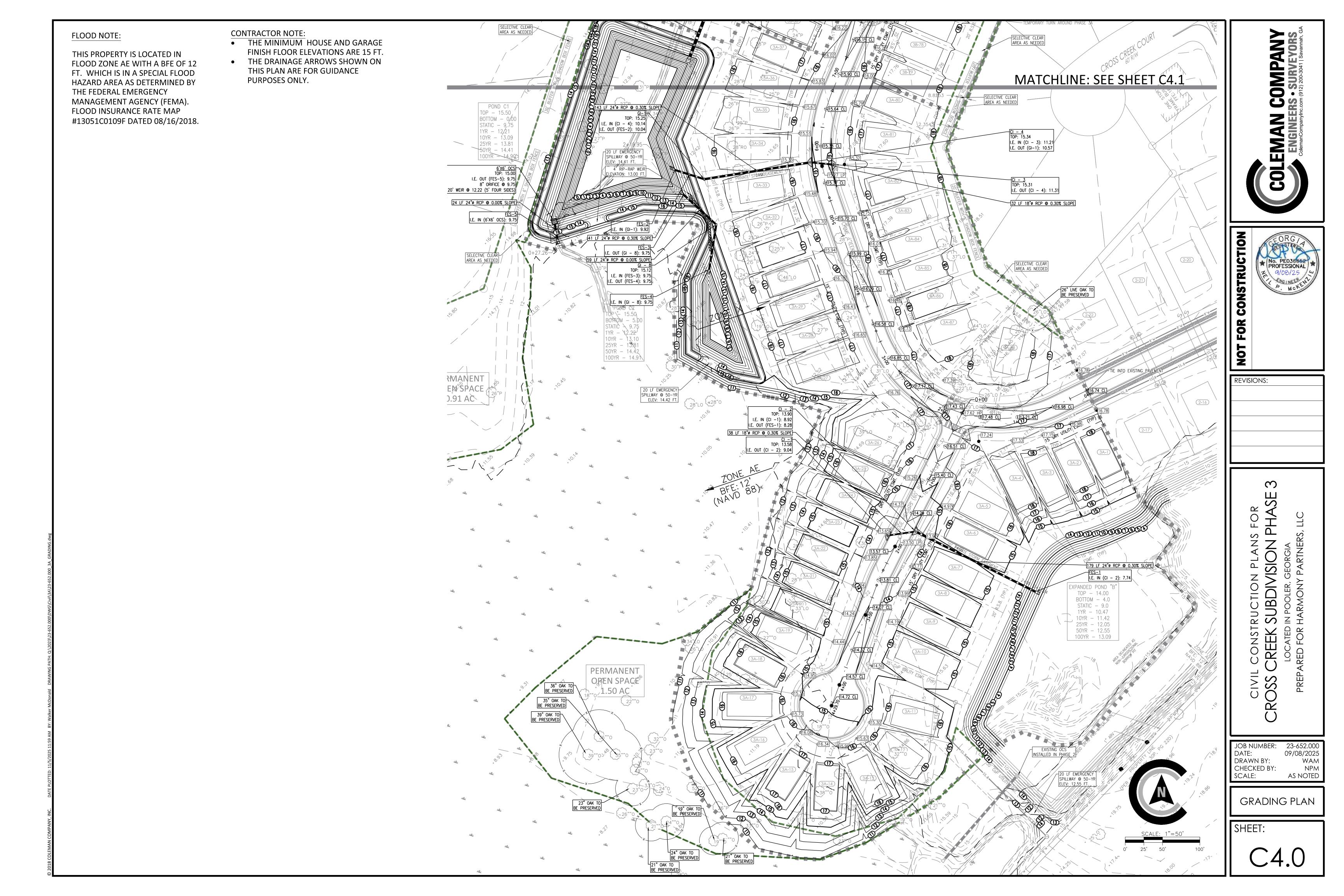
CROSS CREEK SUBDIVISION PHASE

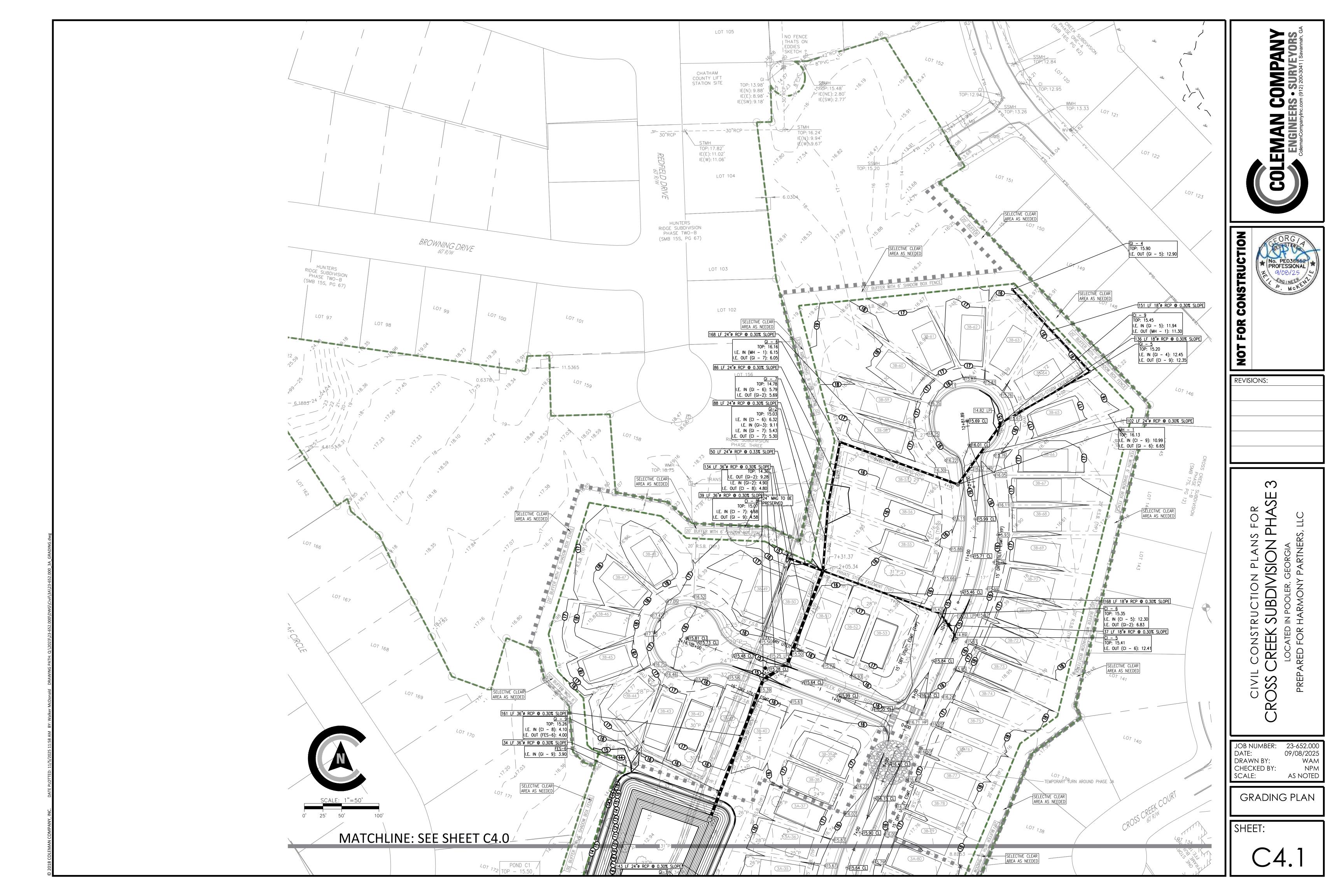
LOCATED IN POOLER, GEORGIA

PREPARED FOR HARMONY PARTNERS, LLC

JOB NUMBER: 23-652.000
DATE: 09/08/2025
DRAWN BY: WAM
CHECKED BY: NPM
SCALE: AS NOTED

STAKING PLAN





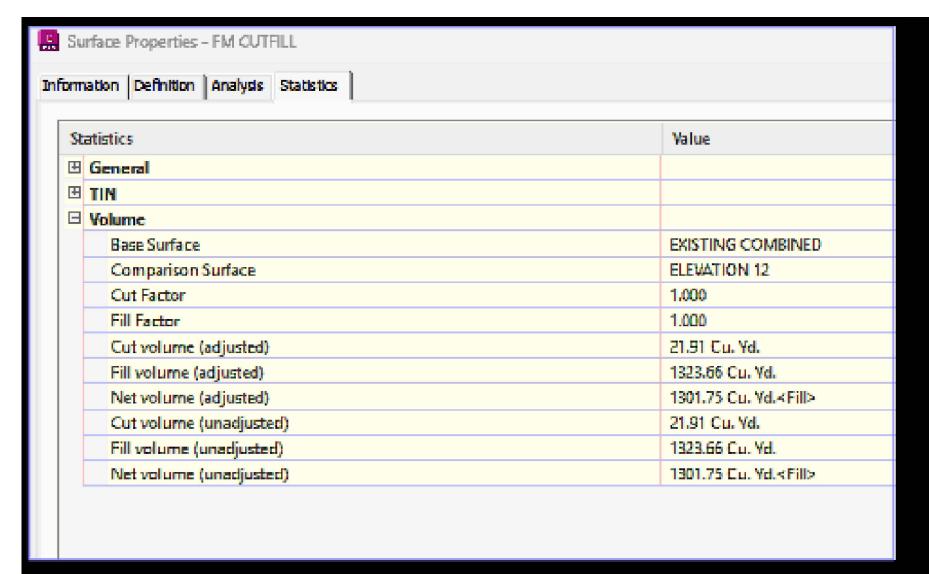
### FLOOD NOTE:

THIS PROPERTY IS LOCATED IN FLOOD ZONE AE WITH A BFE OF 12 FT. WHICH IS IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). FLOOD INSURANCE RATE MAP

#13051C0109F DATED 08/16/2018.

### CONTRACTOR NOTE:

- THE MINIMUM HOUSE AND GARAGE FINISH FLOOR ELEVATIONS ARE 15 FT.
- THE DRAINAGE ARROWS SHOWN ON THIS PLAN ARE FOR GUIDANCE PURPOSES ONLY.



FLOOD PLAIN MITIGATION: FILL VOLUME TO BE MITIGATED: 1,324 CY CUT VOLUME FOR MITIGATION: 22 CY

AFTER MITIGATION IS ACCOUNTED FOR A REMAINDER OF 1,302 CY MITIGATION IS REQUIRED

BASED ON THE POND "C" MITIGATION CALCULATIONS THERE IS 2,857 CY OF MITIGATION AVAILABLE. AFTER THE 1,302 CY OF FILL NEEDED TO BE ACCOUNTED FOR STILL FROM THE FLOOD PLAIN IS DEDUCTED FORM THE 2,857 CY OF ALLOWABLE CUT AVAILABLE FROM POND "C" IS DEDUCTED THERE IS 1,555 CY OF CUT STILL AVAILABLE FOR MITIGATION FROM POND "C"

SEE SUPPLEMENTARY CALCULATIONS BELOW

POND "C" MITIGATION AVAILABLE : STATIC ELEVATION AREA (9.75 FT.): 30,662 SF 12 FT POND "C" AREA: 37,907 SF

ANSWER \* ( 12 FT POND ELEV. - STATIC POND ELEV.) =

( STATIC ELEV. AREA + 12 FT POND AREA ) / 2 =

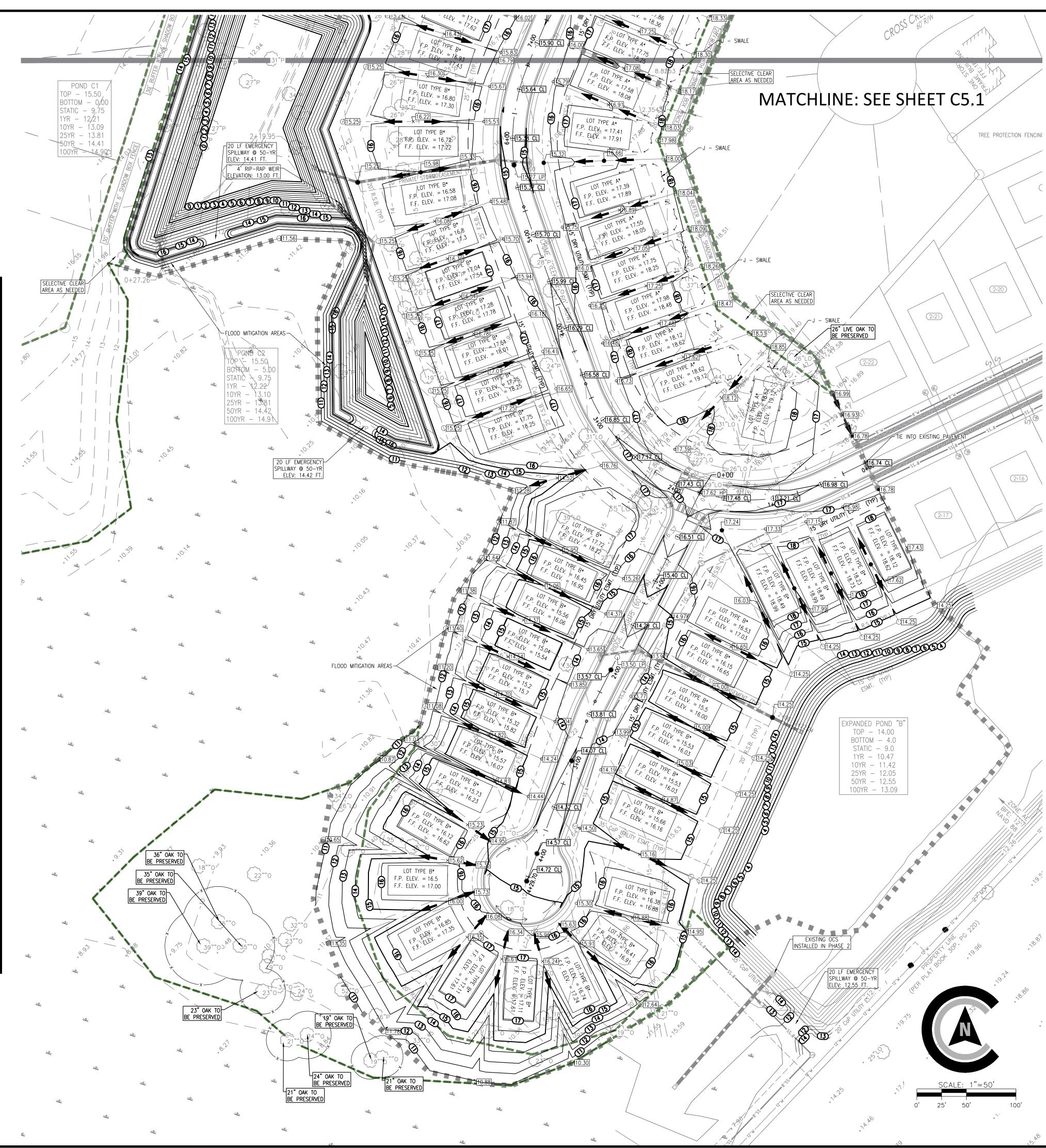
( 30,662 SF + 37,907 SF ) = 68,569 SF / 2 =

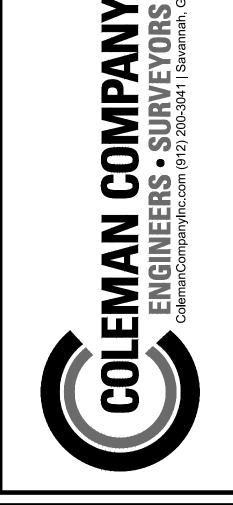
ANSWER (FT^3) / 27= ANSWER (CY)

34,284.5 SF 34,284.5 SF \* 2.25 FT = 77,140.125 FT^3 77,140.125 FT^3 / 27 = 2,857 CY

# FLOOD NOTE:

THIS PROPERTY IS LOCATED IN FLOOD ZONE AE WITH A BFE OF 12 FT. WHICH IS IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). FLOOD INSURANCE RATE MAP #13051C0109F DATED 08/16/2018.





**REVISIONS:** 

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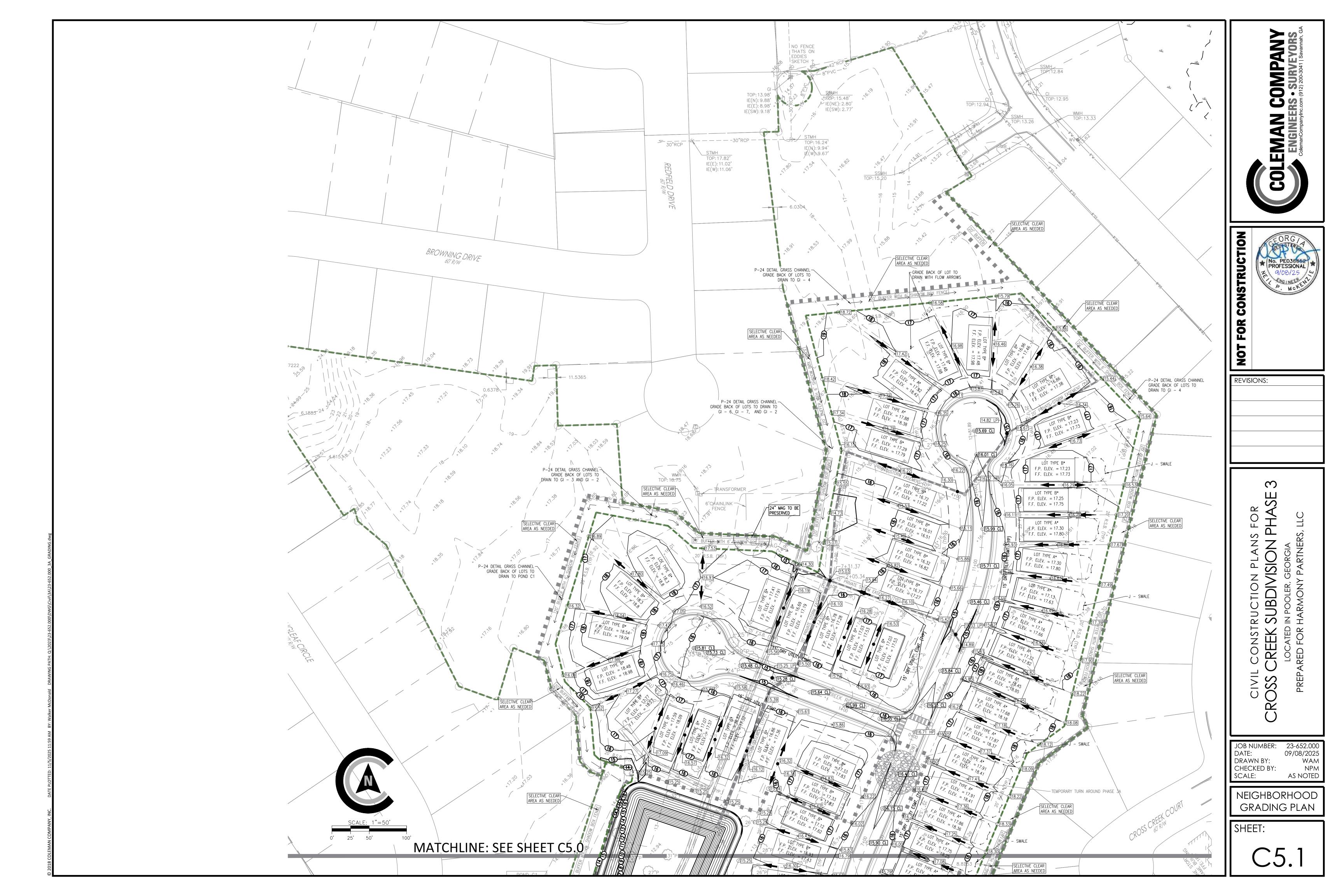
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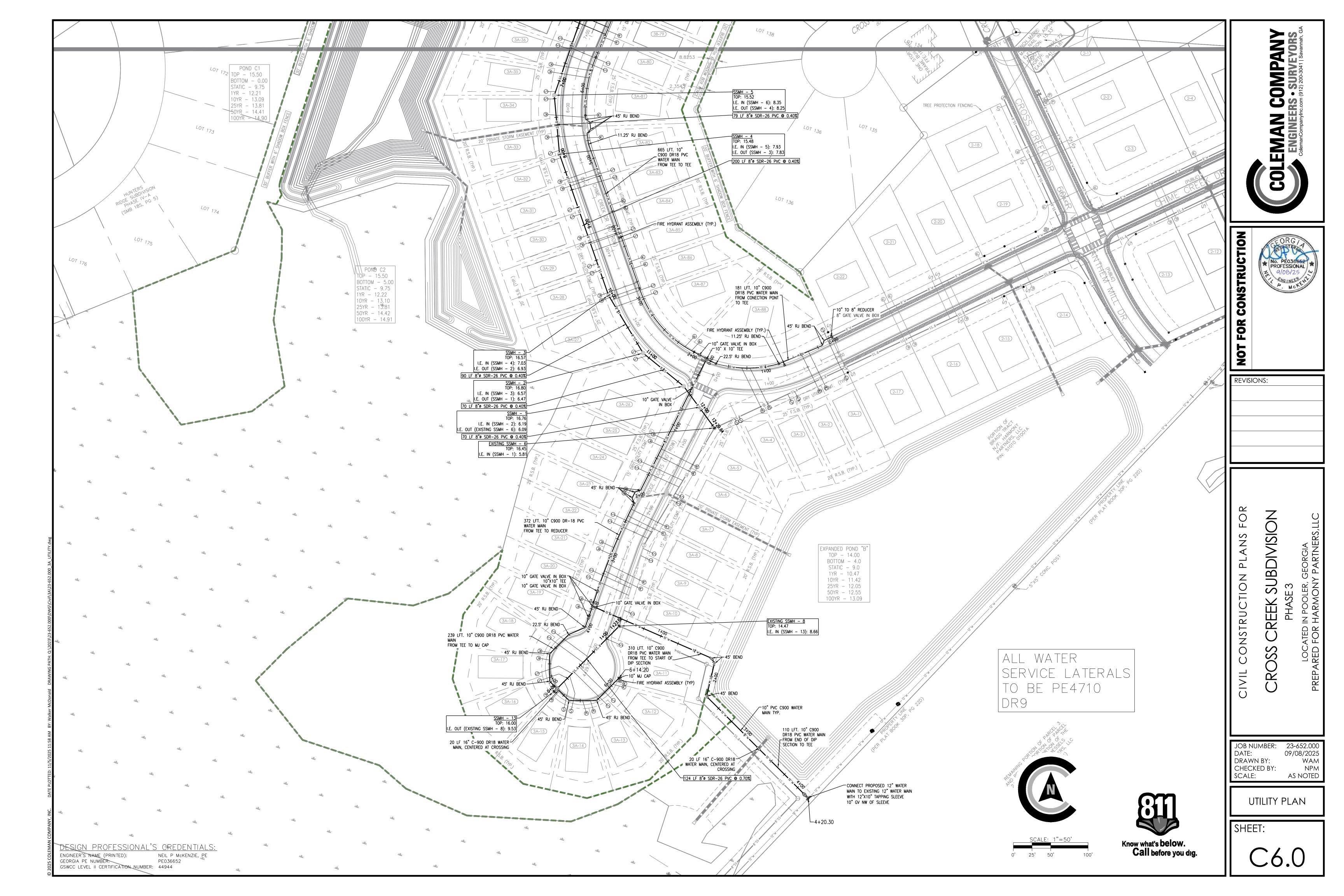
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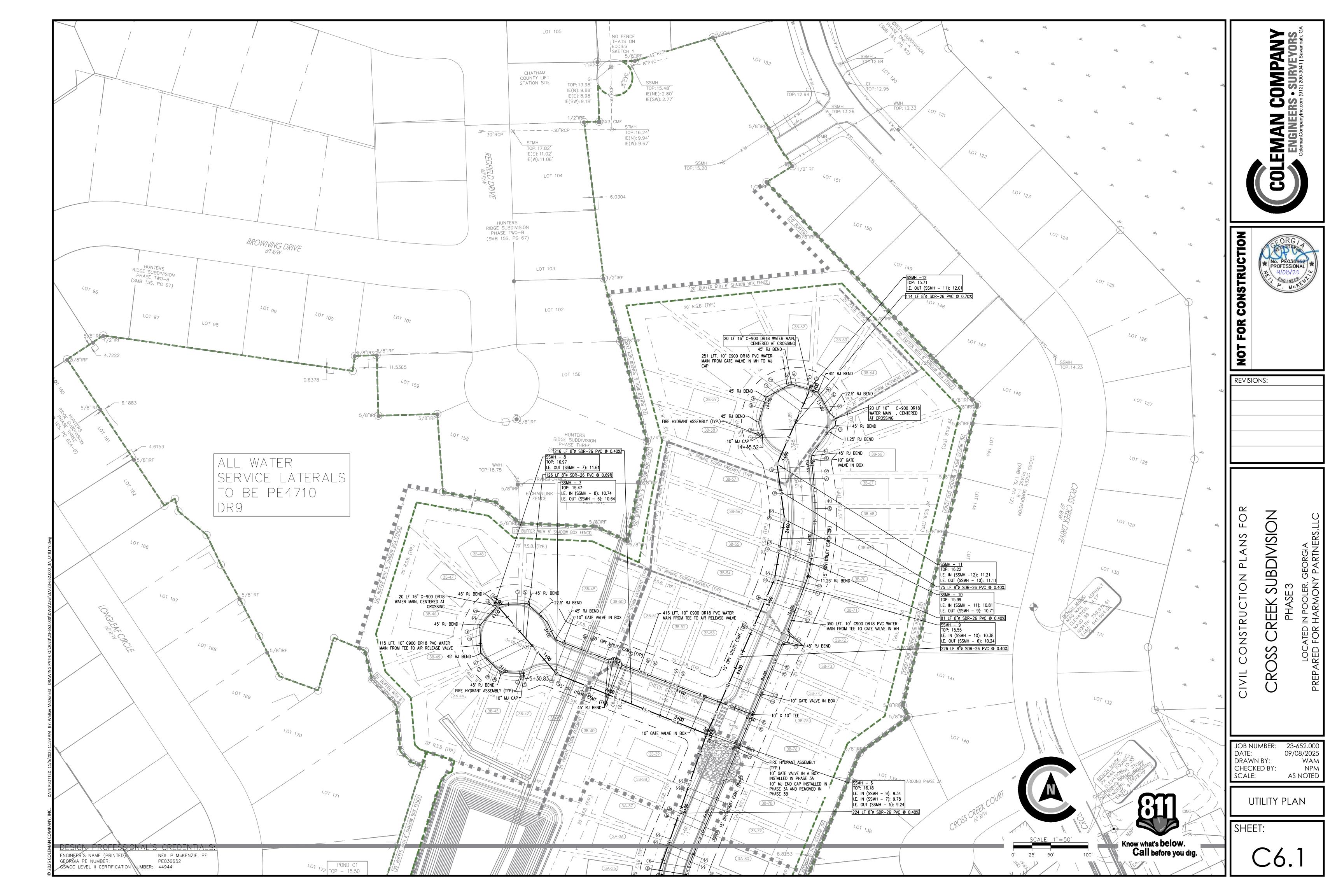
NEIGHBORHOOD GRADING PLAN

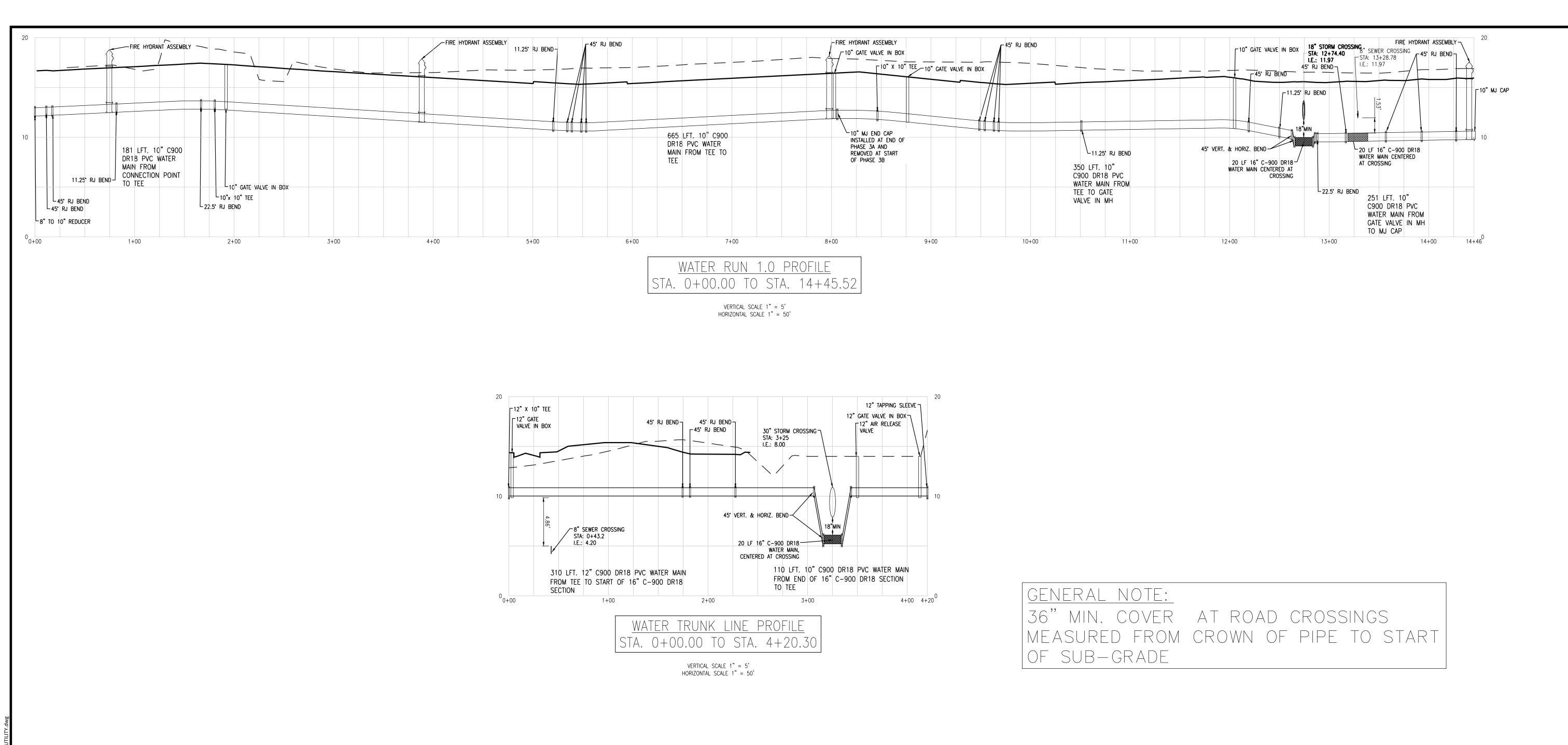
23-652.000 09/08/2025

**AS NOTED** 

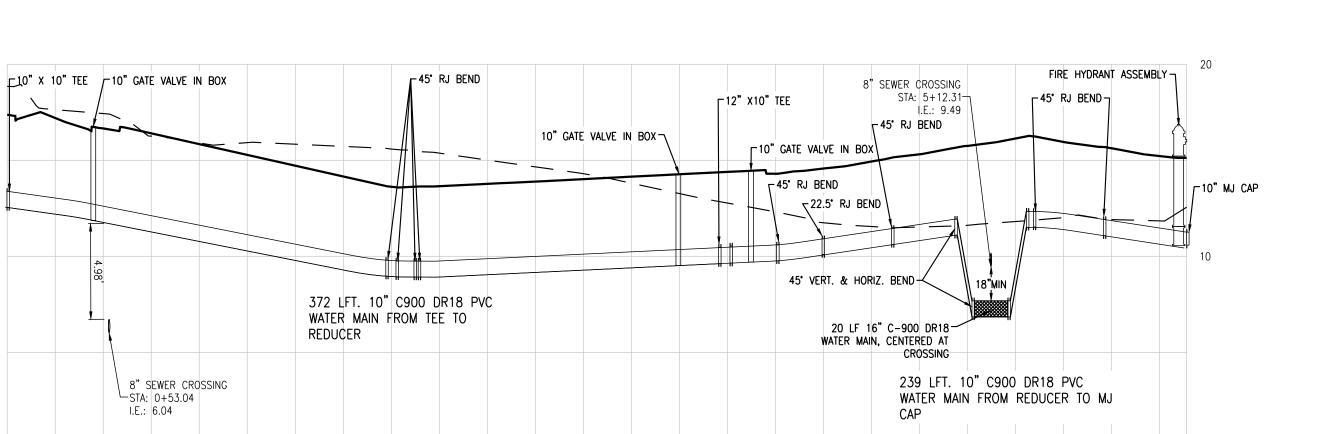








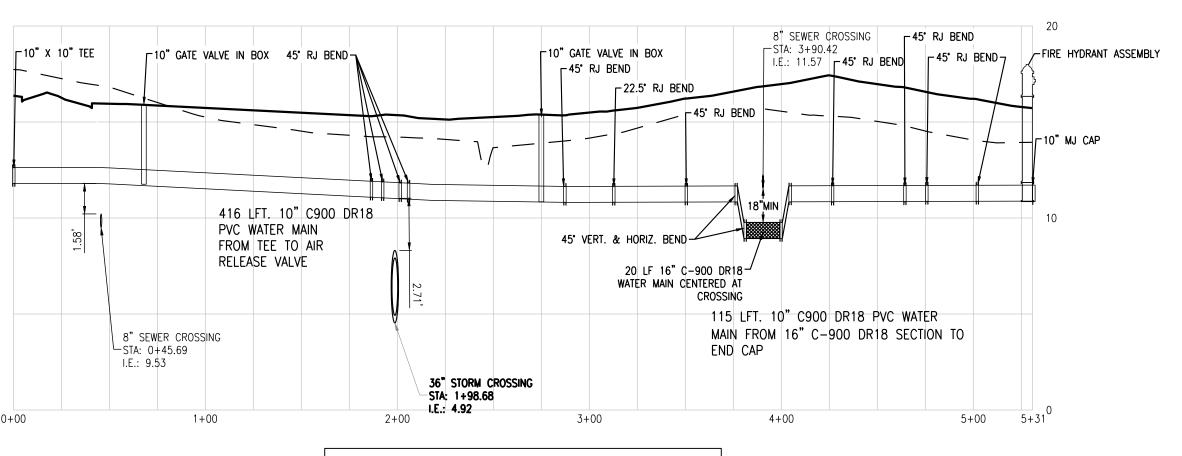
6+006+14



WATER RUN 2.0 PROFILE 0+00.00 TO STA. 6+14.20

0+00

VERTICAL SCALE 1" = 5' HORIZONTAL SCALE 1" = 50'



WATER MAIN RUN 3.0 PROFILE STA. 0+00.00 TO STA. 5+30.83

VERTICAL SCALE 1" = 5' HORIZONTAL SCALE 1" = 50'



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CONSTRUCTION FOR **NON** 

**REVISIONS:** 

SUBDIVISION LOCATED IN POOLER, GEORGIA PREPARED FOR HARMONY PARTNERS,LLC CREEK

**CROSS** 

CONSTRUCTION

JOB NUMBER: 23-652.000 DATE: 09/08/2025 DRAWN BY: WAM DRAWN BY: CHECKED BY: AS NOTED

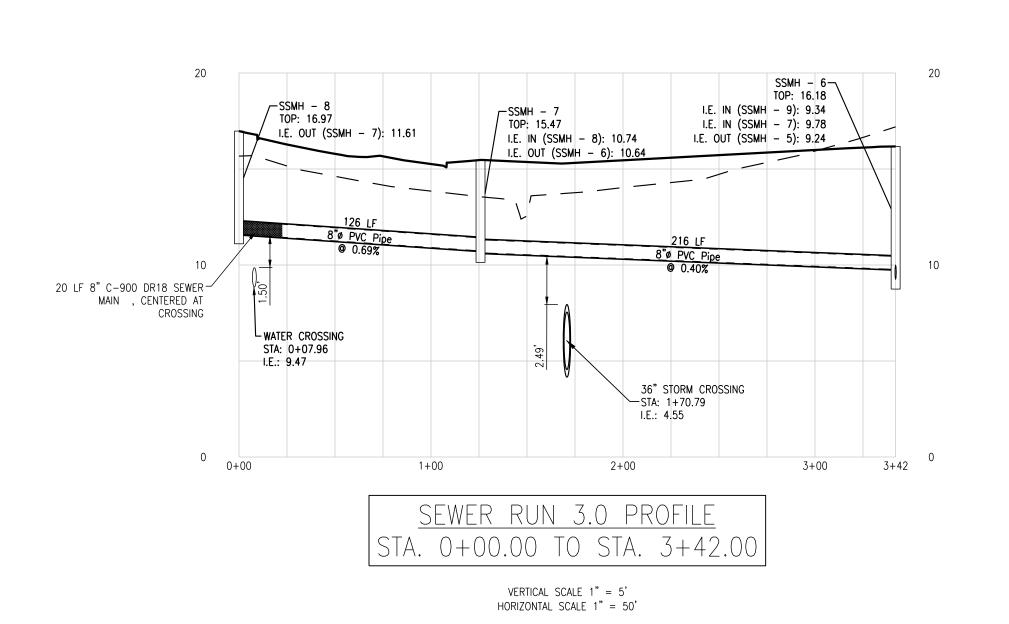
WATER PROFILES

VERTICAL SCALE 1" = 5' HORIZONTAL SCALE 1" = 50'

SEWER RUN 1.0 PROFILE

STA. 0+00.00 TO STA. 12+29.64

SSMH - 13 TOP: 16.00 I.E. OUT (EXISTING SSMH - 8): 9.53 EXISTING SSMH - 8-TOP: 14.47 I.E. IN (SSMH - 13): 8.66 20 LF 8" C−900 DR18 SEWER ✓ MAIN , CENTERED AT CROSSING WATER CROSSING
STA: 0+11.93
I.E.: 7.37
WATER CROSSING
STA:1+04.38
I.E.: 6.78 VERTICAL SCALE 1" = 5' HORIZONTAL SCALE 1" = 50'



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REVISIONS:

CONSTRUCTION PLANS

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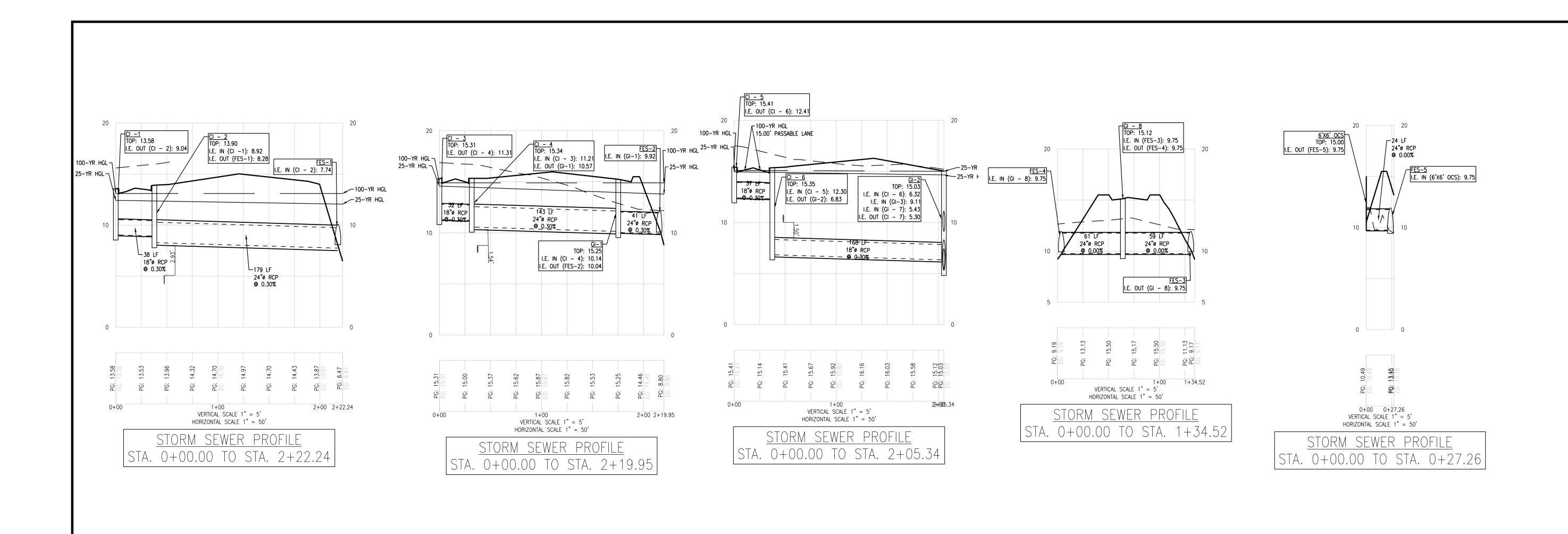
**CROSS** 

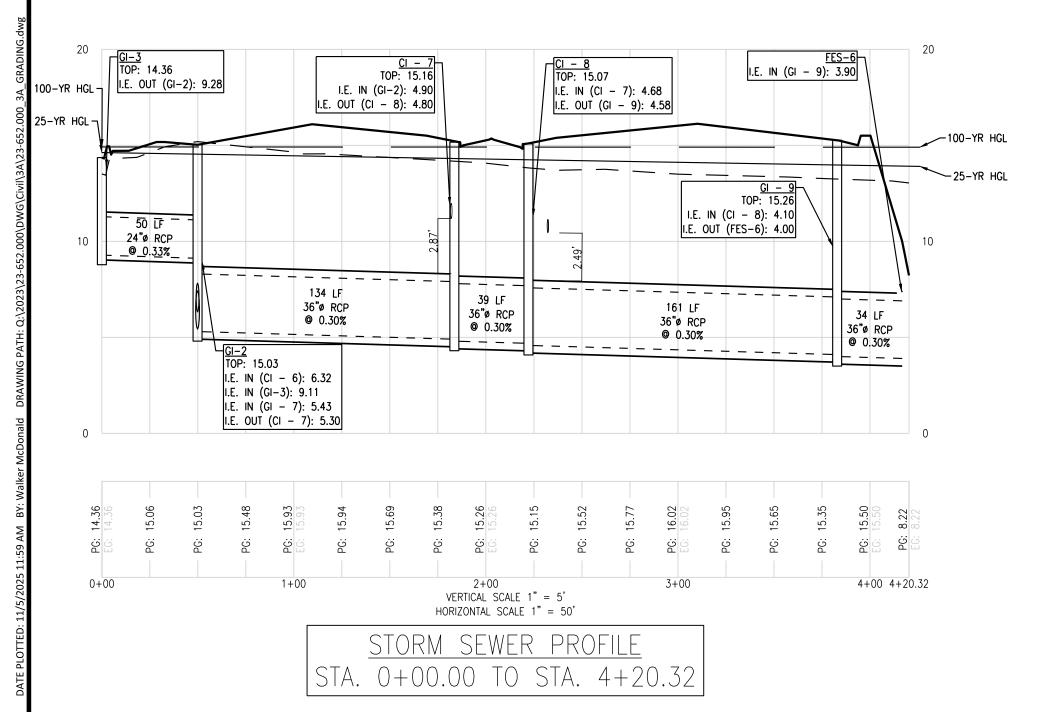
LOCATED IN POOLER, GEORGIA ARED FOR HARMONY PARTNERS,LLC

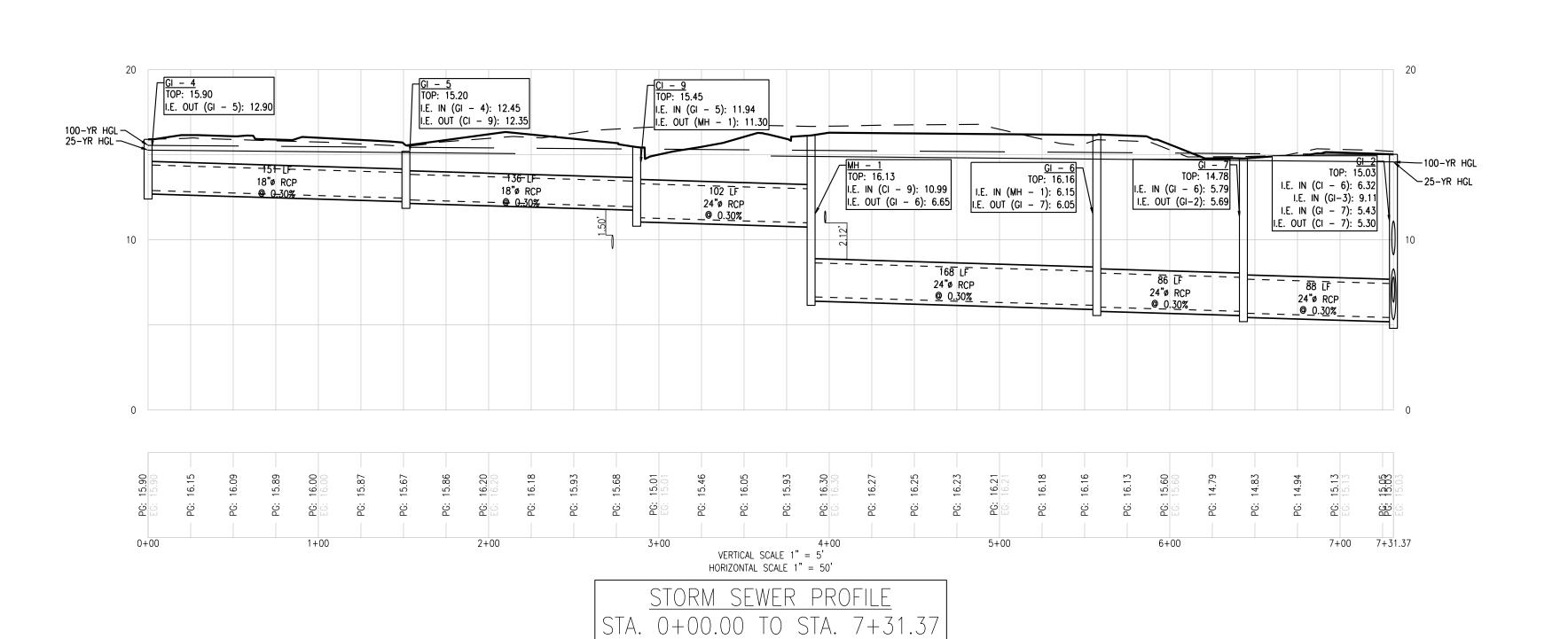
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JOB NUMBER: 23-652.000 DATE: 09/08/2025 DRAWN BY: WAM CHECKED BY: AS NOTED

SEWER PROFILES







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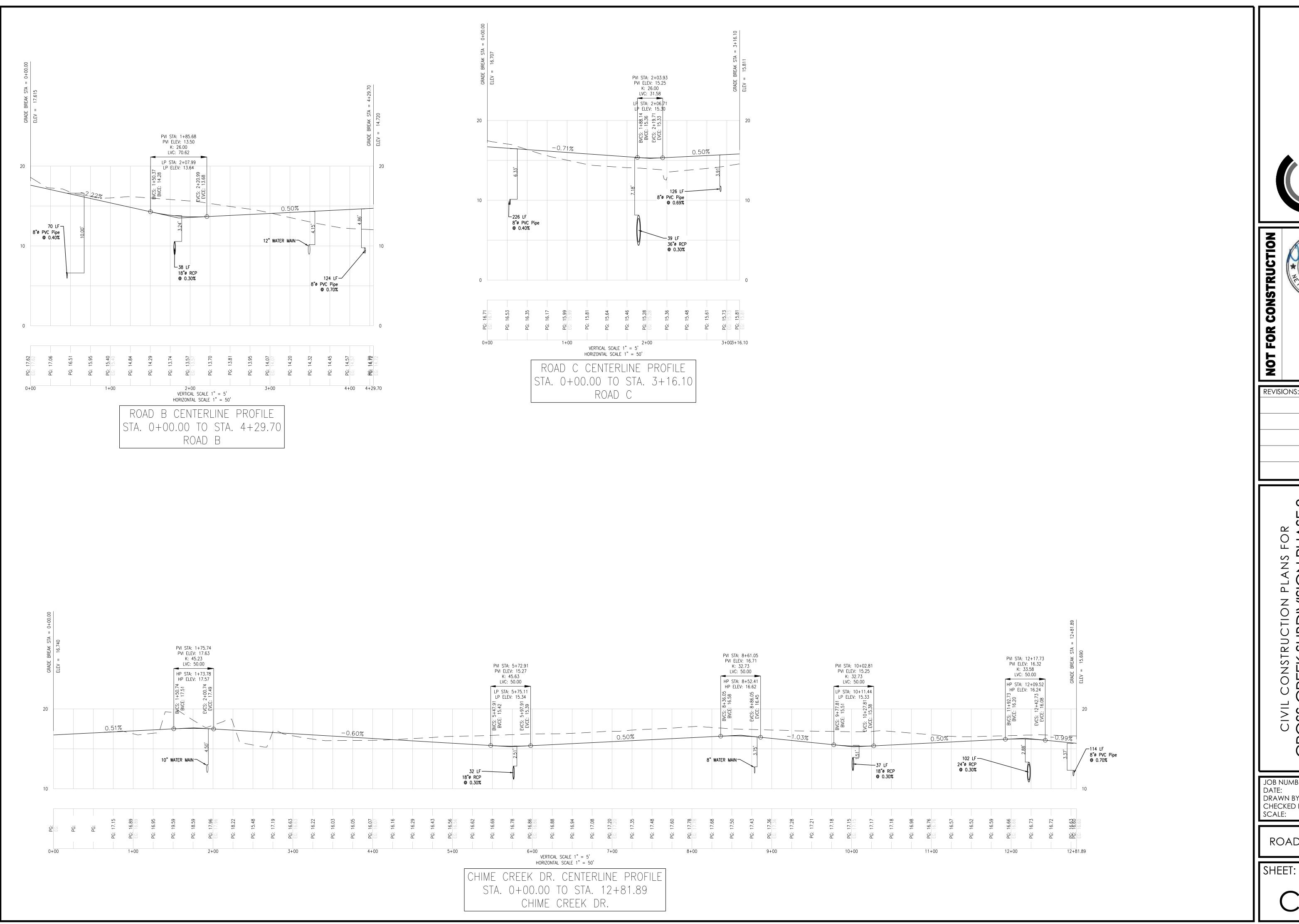
**REVISIONS:** 

 $\mathcal{C}$ SIVIL CONSTRUCTION PLANS FOR SSS CREEK SUBDIVISION PHASE LOCATED IN POOLER, GEORGIA
PREPARED FOR HARMONY PARTNERS, LLC CROSS (

JOB NUMBER: DATE: DRAWN BY: 23-652.000 09/08/2025 WAM CHECKED BY: AS NOTED

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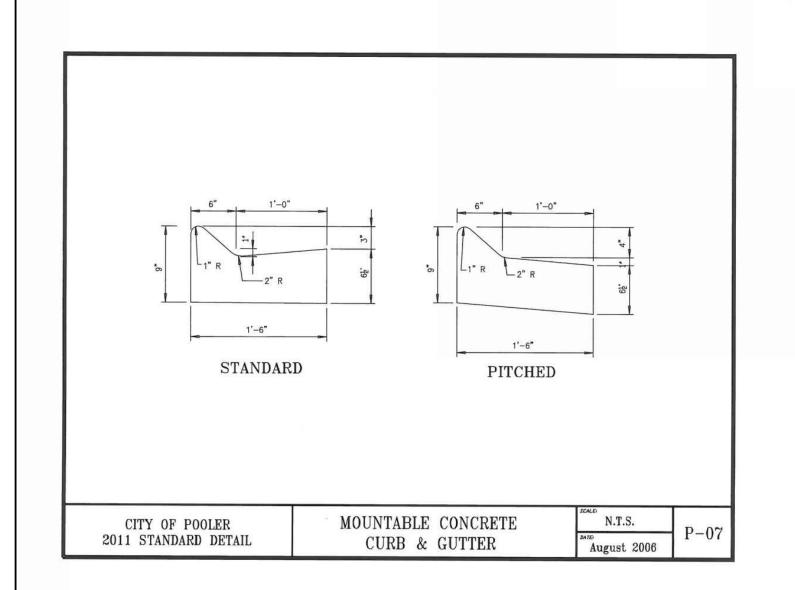
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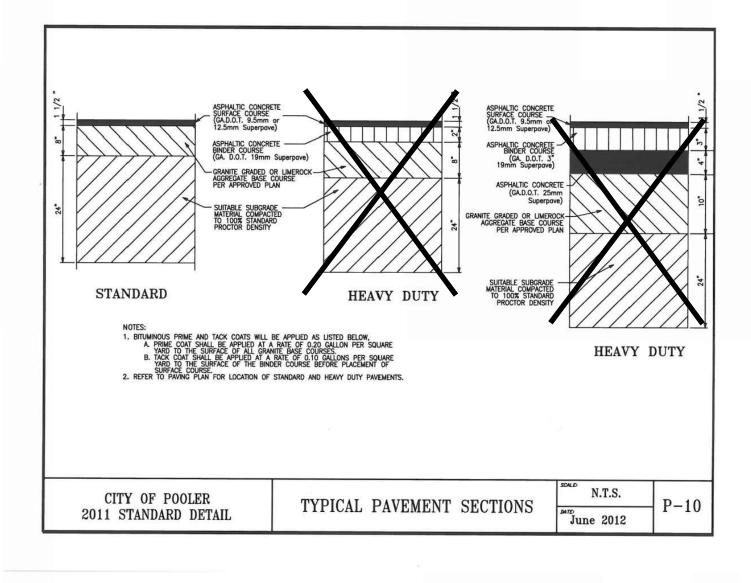
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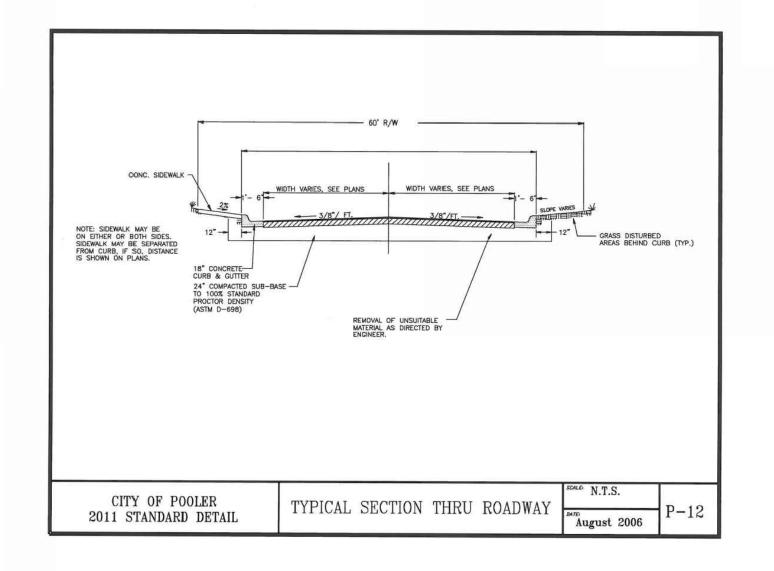
CROSS CREEK SUBDIVISION PHASE
LOCATED IN POOLER, GEORGIA
PREPARED FOR HARMONY PARTNERS, LLC

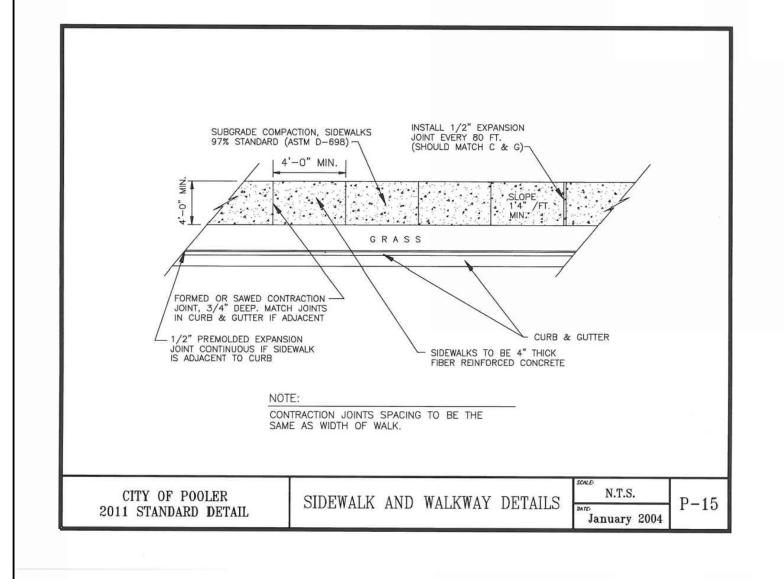
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DATE: 09/08/2025
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SCALE: AS NOTED

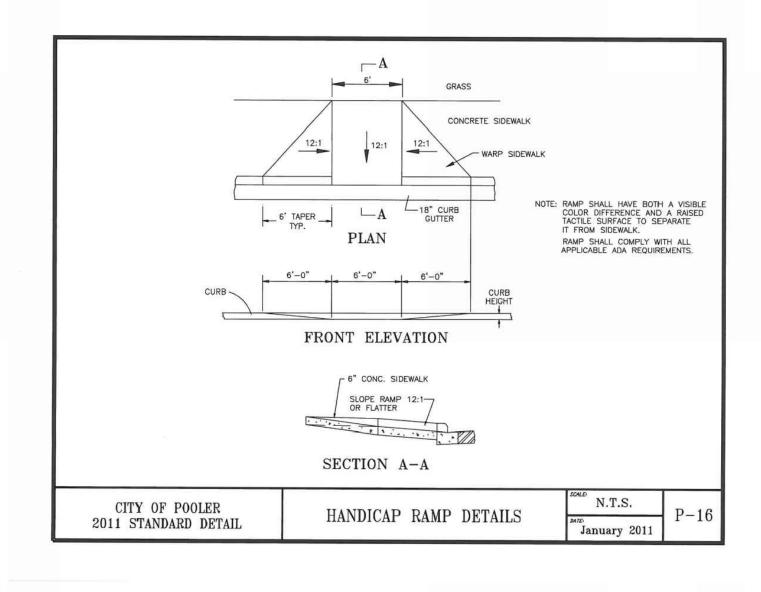
**ROAD PROFILES** 

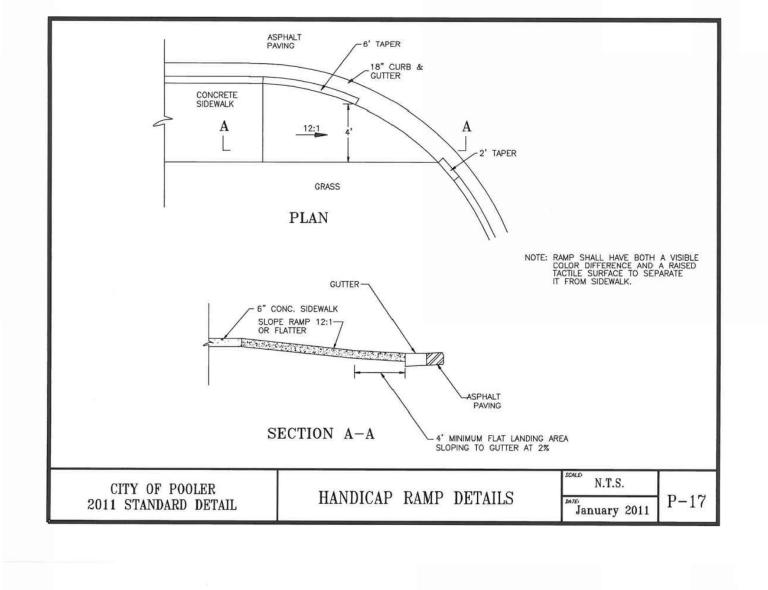


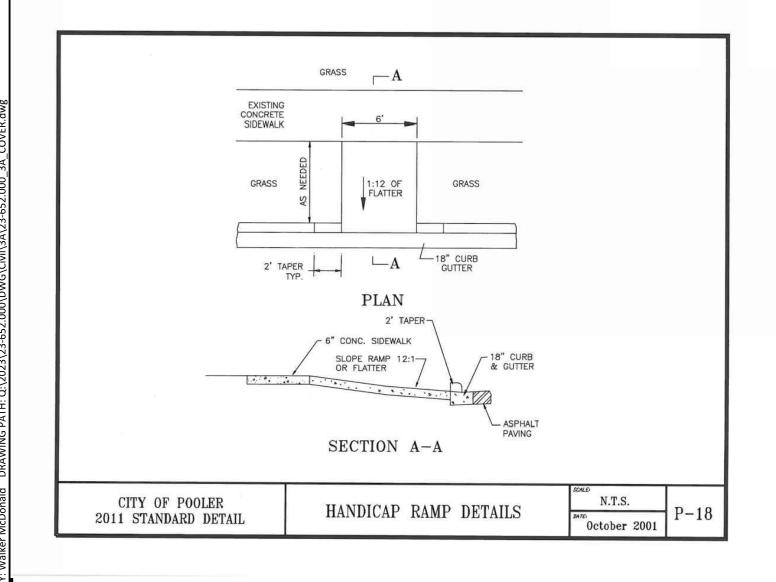


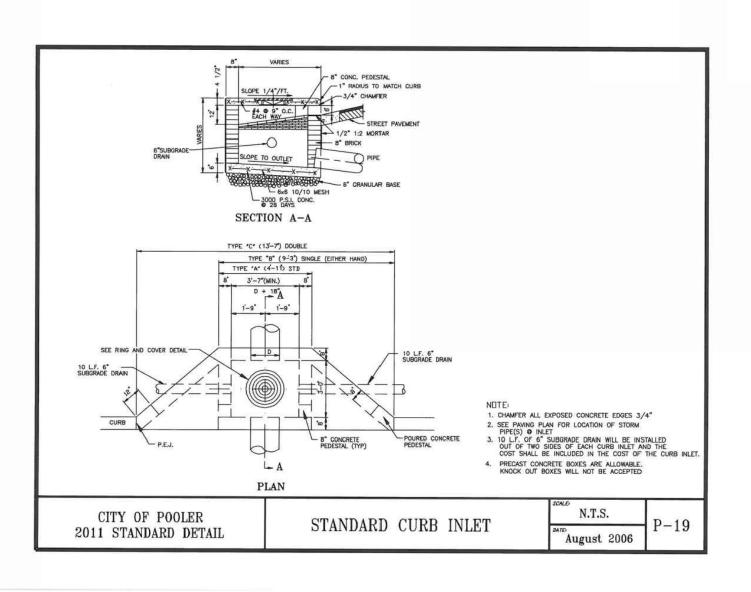


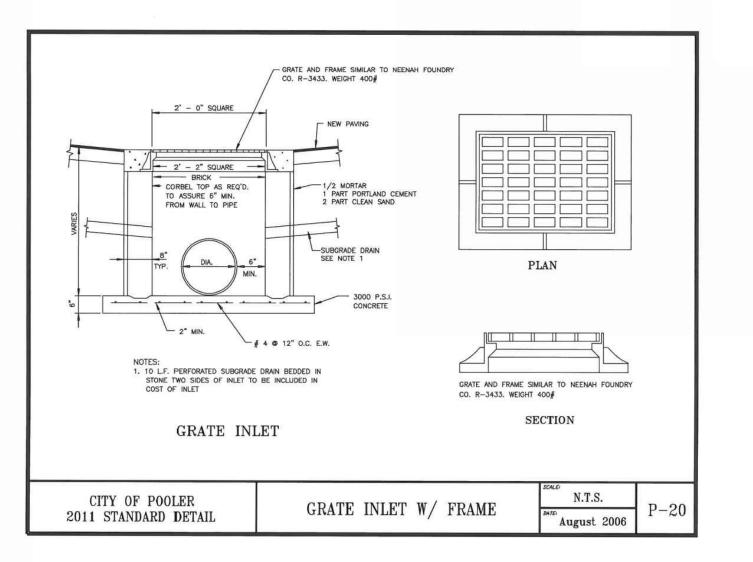












CROSS CREEK SUBDIVISION PLANS FOR

LOCATED IN POOLER, GEORGIA

PREPARED FOR HARMONY PARTNERS, LLC

EMAN COMPANY ENGINEERS • SURVEYORS ColemanCompanyInc.com (912) 200-3041 | Savannah, G

CONSTRUCTION

FOR

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**REVISIONS:** 

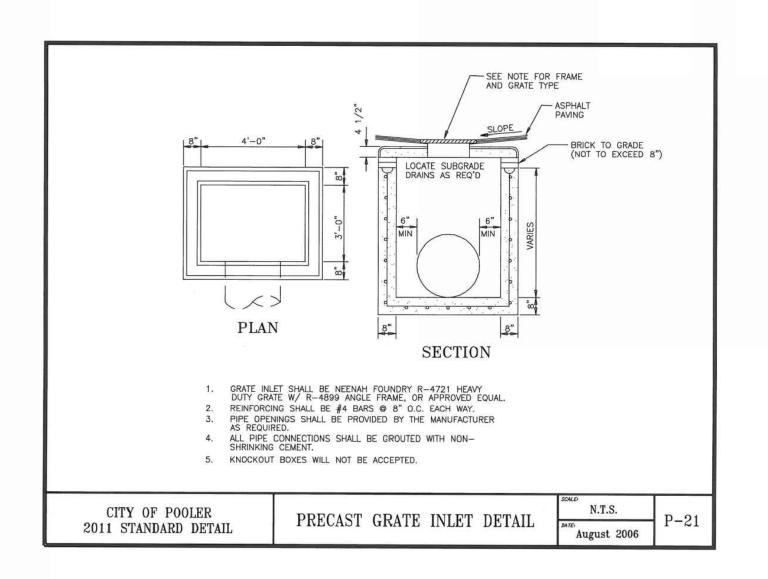
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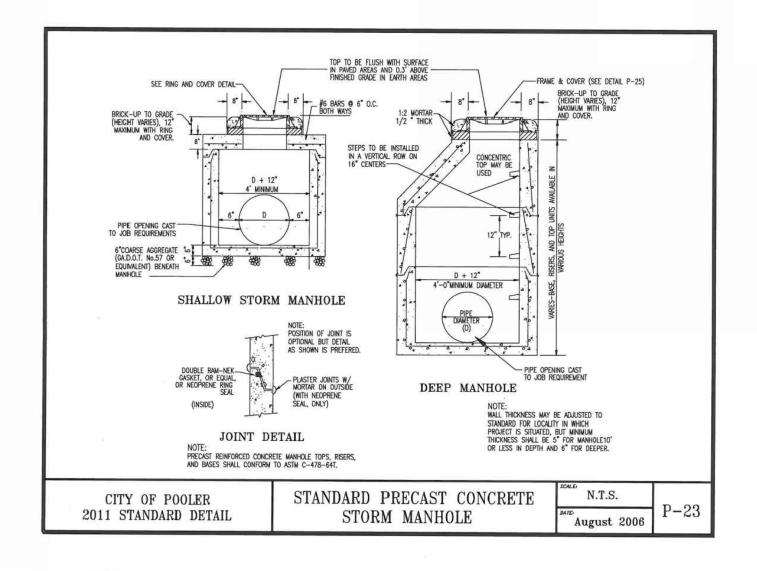
CONSTRUCTION

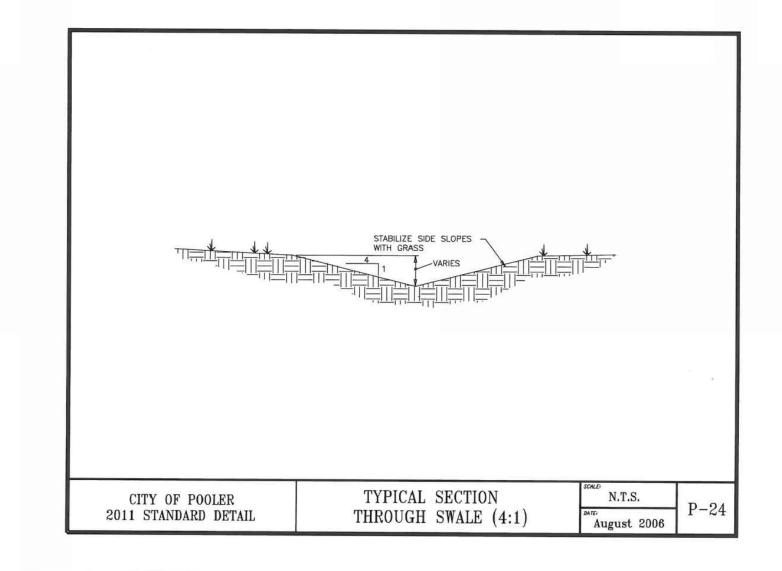
DETAILS

SHEET:

C8.0







CHAMFER EXPOSED **EDGES** 

\_\_\_\_\_<u>20</u>' RECTANGULAR WIER

SLOPES

12" No. 57 STONE SETTING BED ON FILTER FABRIC

TRASH SCREEN (2' x 2' BOX) #4 REBAR AT 6" D.C.

-8" ORIFICE

IE: 9.75'

← 6" 3000 PSI CONCRETE APRON WITH TURNDOWN EDGES

-8" ORIFICE WITH TRASH SCREE IN FRONT

1 1/2" GALVANIZED STEEL BAR GRATING WITH 1/8" BEARING BARS AT 1 13/16" D.C.AND CROSS BARS AT 4" D/C (ATTACH TO CONCRETE

WITH EXPANSION BOLTS.)

NOT TO SCALE

-24" RCP OUTFALL PIPE

IE: 9.75

→ 3000 PSI CONCRETE

(5' FOUR SIDES)

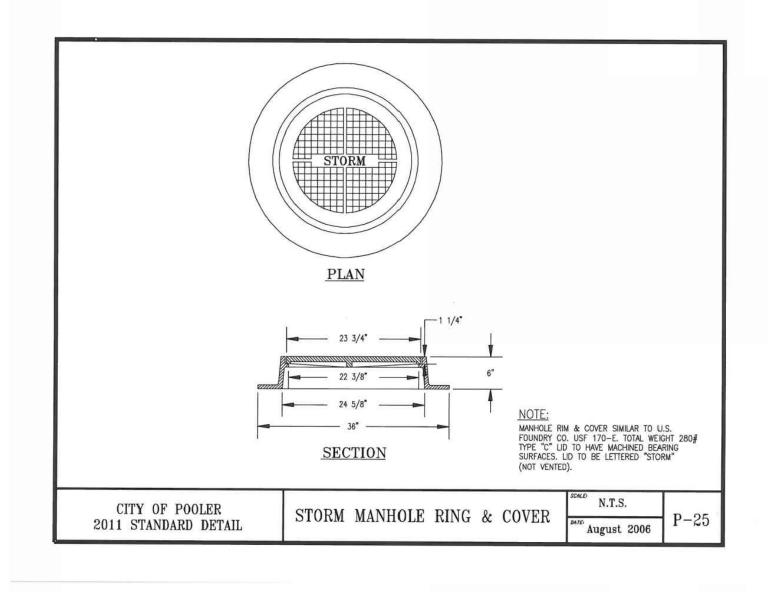
I.E. 12.22'

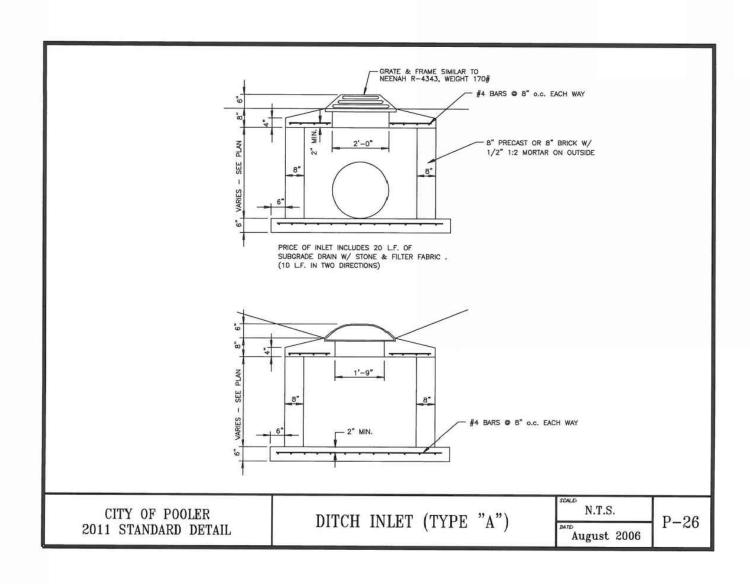
— PRECAST

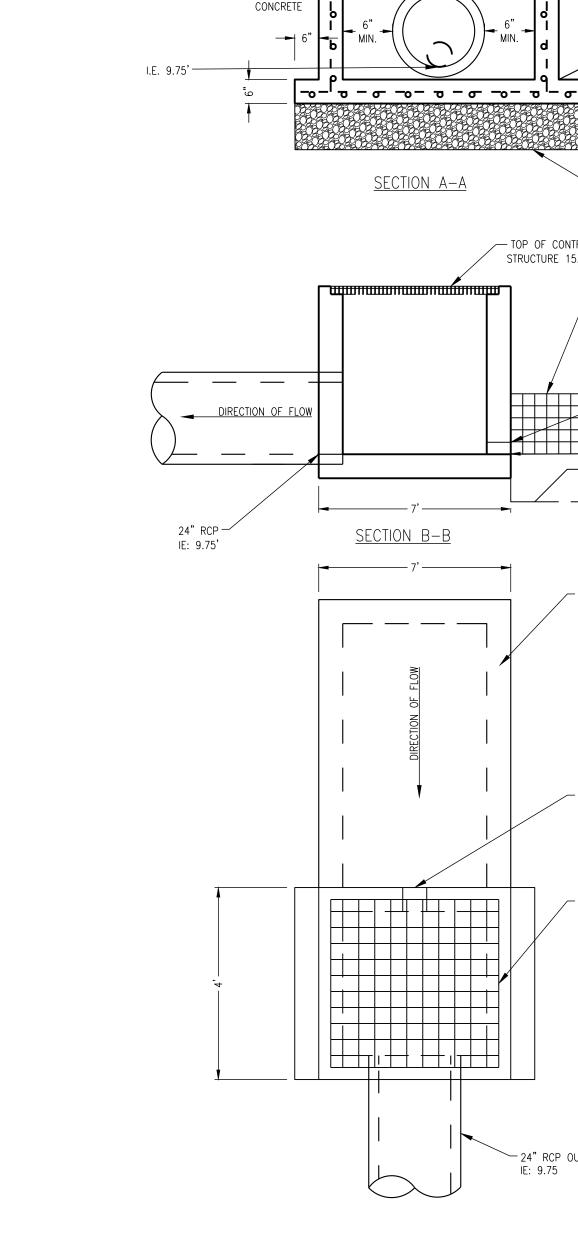
CONCRETE

— TOP OF CONTROL

STRUCTURE 15.00'







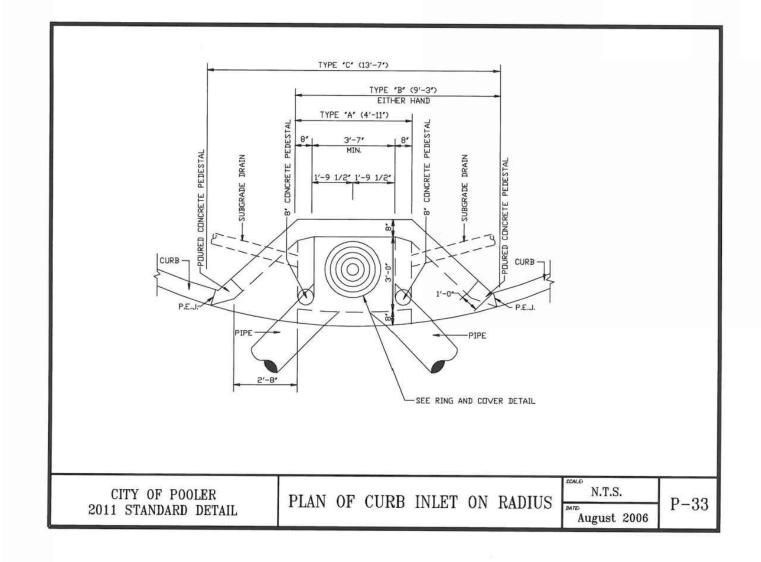
TOP OF DETENTION STRUCTURE

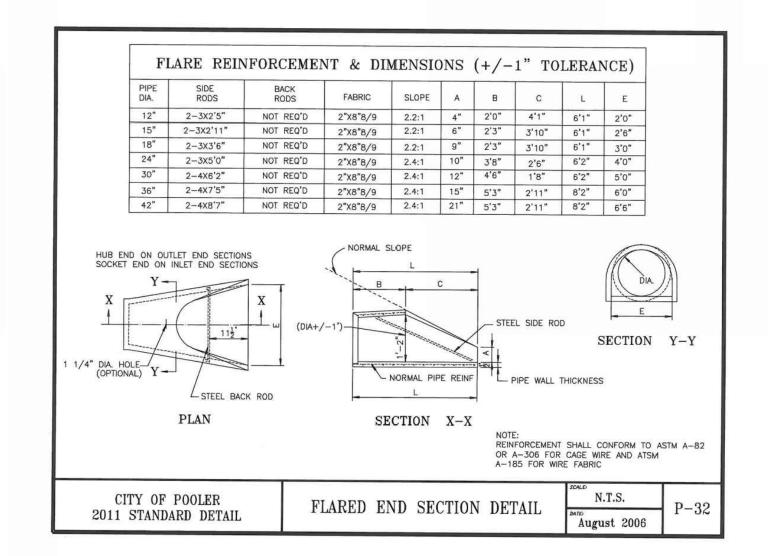
6" FORM WALL TO PIPE

TOP: 15.00'

PRECAST -

CORBEL TOP AS -REQUIRED TO ASSURE







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**REVISIONS:** 

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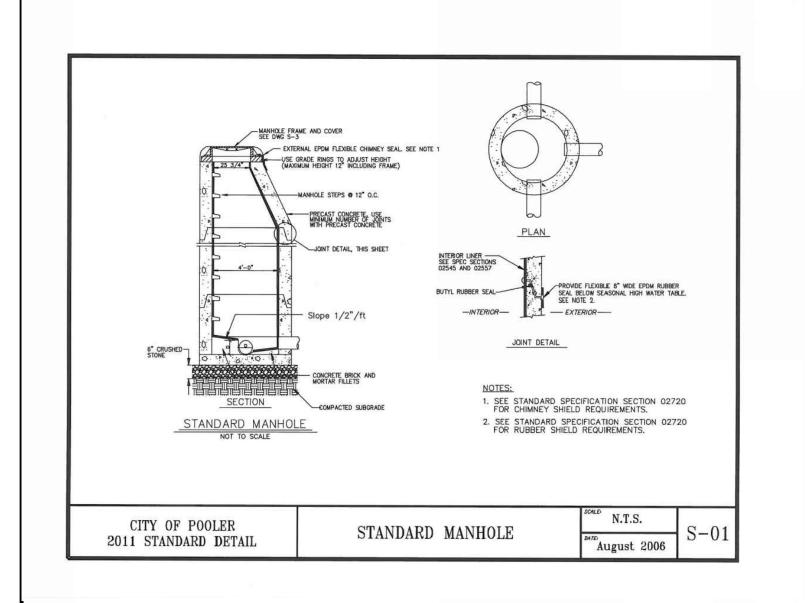
S CREEK SUBDIVISION PLANS FOR SOCIET SUBDIVISION PHASE 3
LOCATED IN POOLER, GEORGIA
EPARED FOR HARMONY PARTNERS, LLC CROSS (

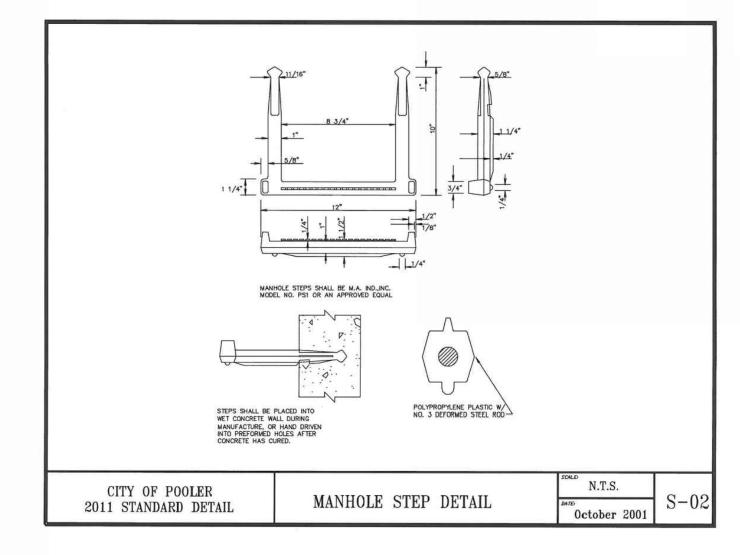
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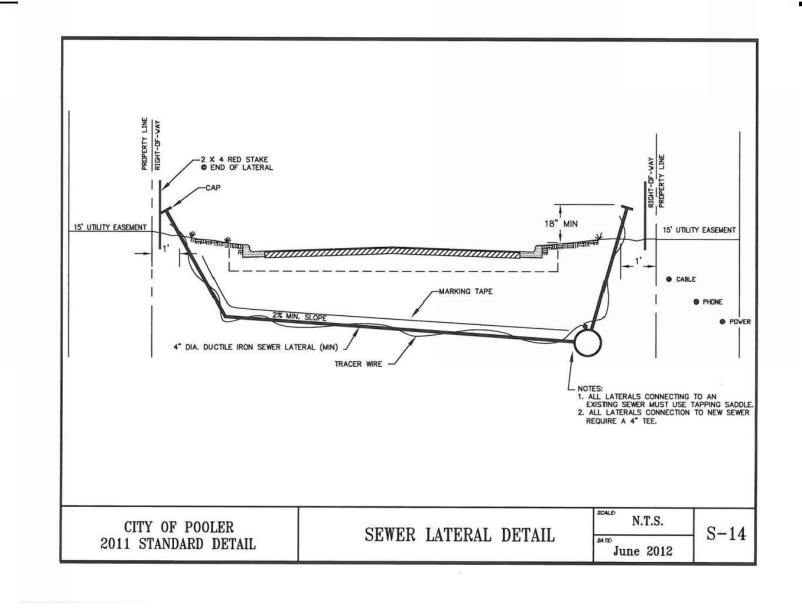
> CONSTRUCTION **DETAILS**

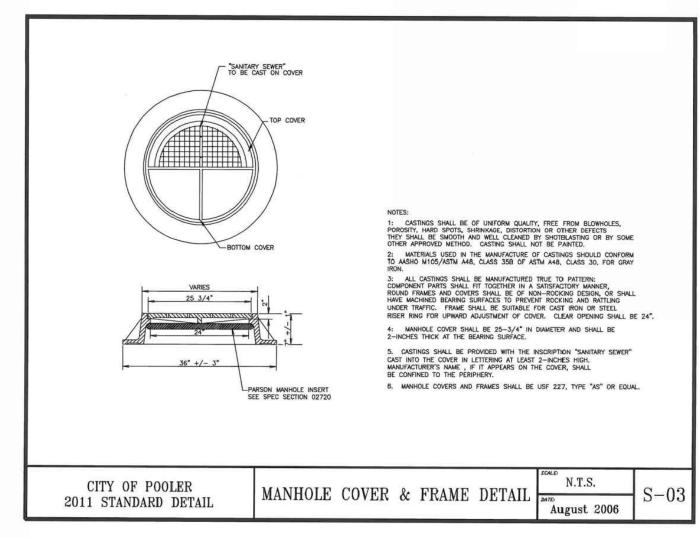
WAM

NPM









DETECTOR TAPE

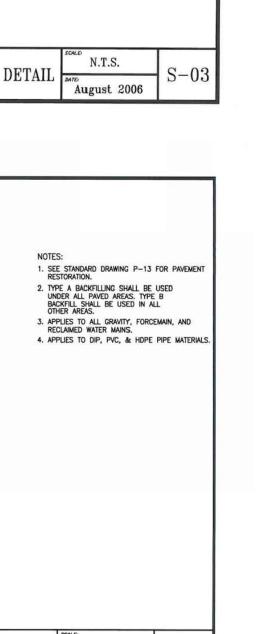
PIPE BEDDING DETAIL

TYPICAL BEDDING FOR PIPE

COMPACTED BEDDING — CLASS I OR II SEE SECTION 02221

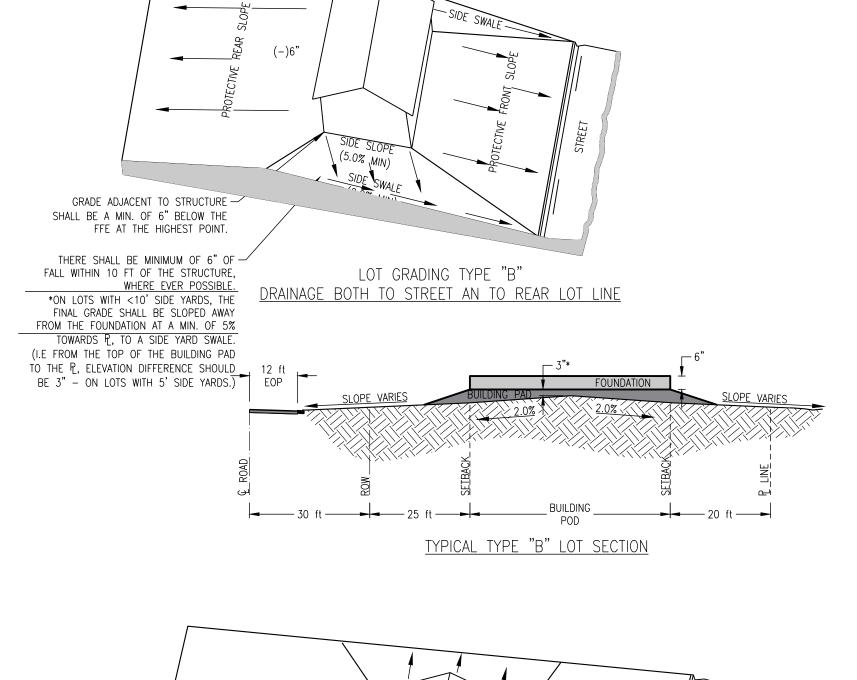
CITY OF POOLER

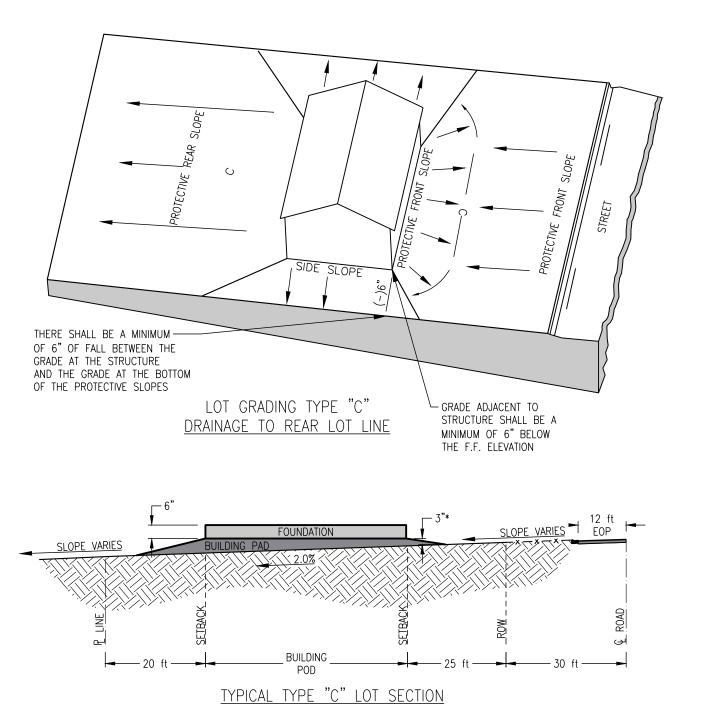
2011 STANDARD DETAIL

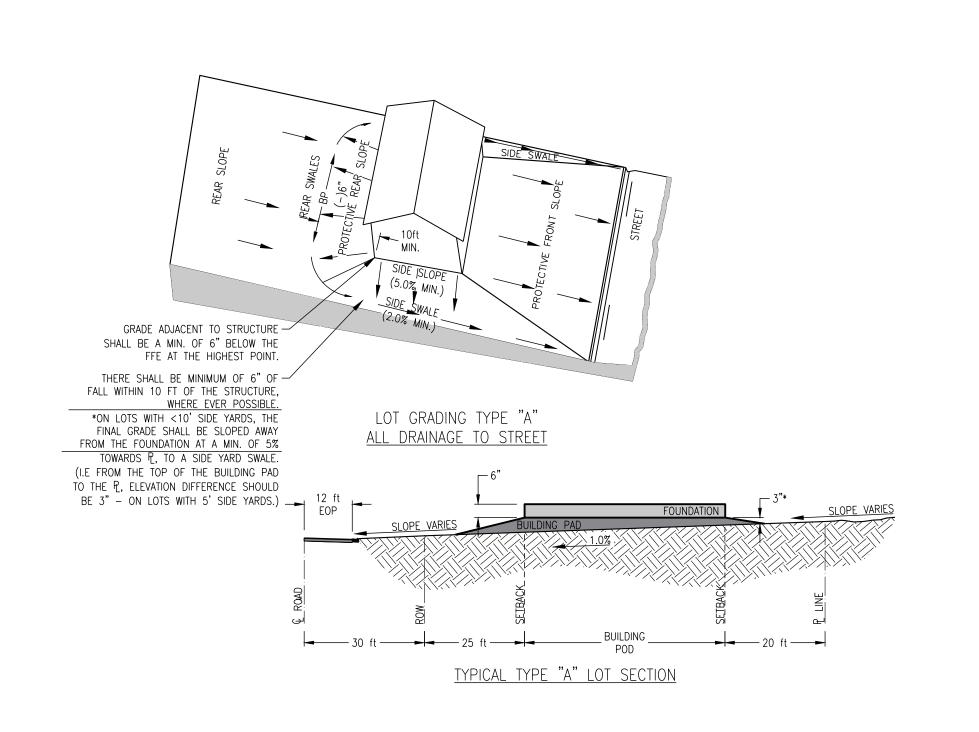


N.T.S.

June 2012







\*\*\*\*FOUNDATION DESIGN BY OTHERS\*\*\*\*

NOT TO SCALE

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ISTRUCTION PLANS FOR EK SUBDIVISION PHASE 3
TED IN POOLER, GEORGIA
OR HARMONY PARTNERS, LLC

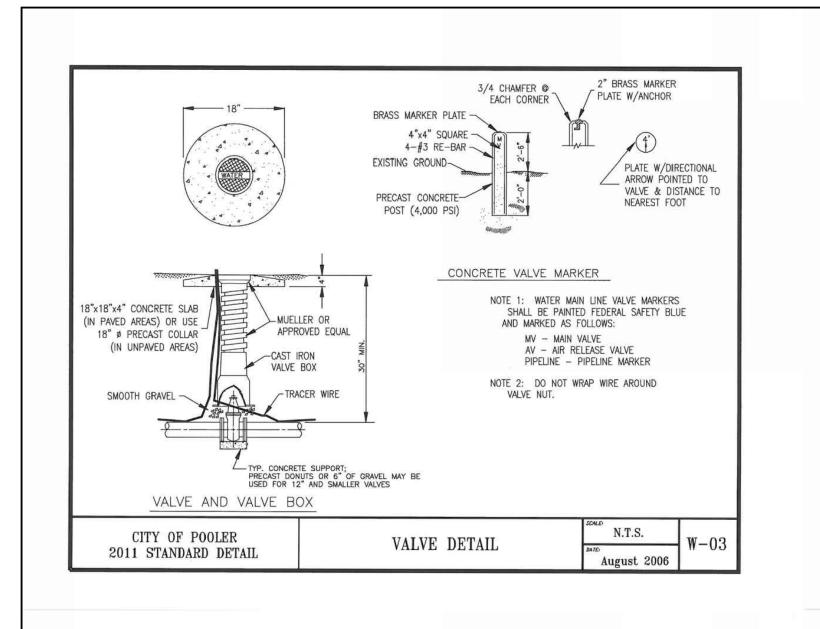
CREEK CREEK

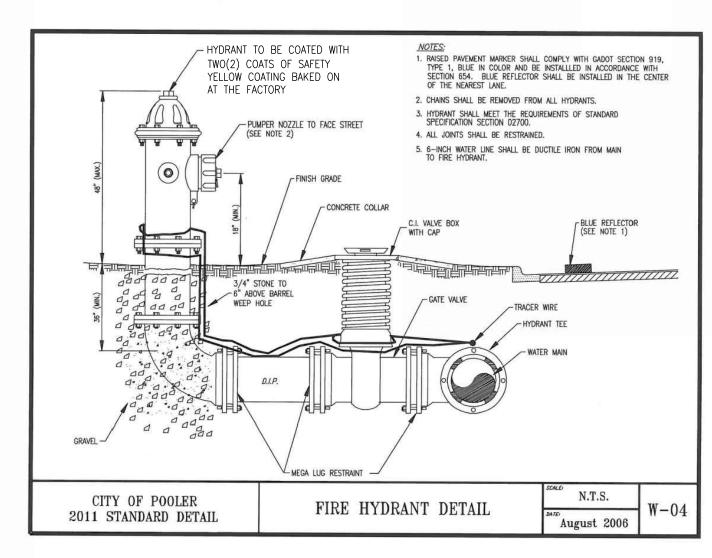
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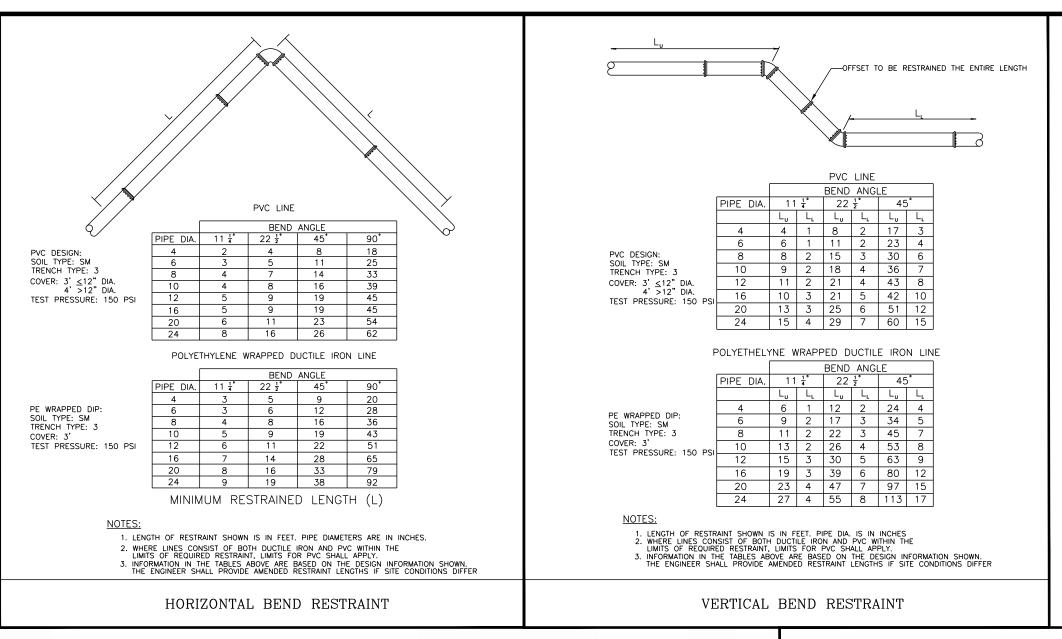
CONSTRUCTION **DETAILS** 

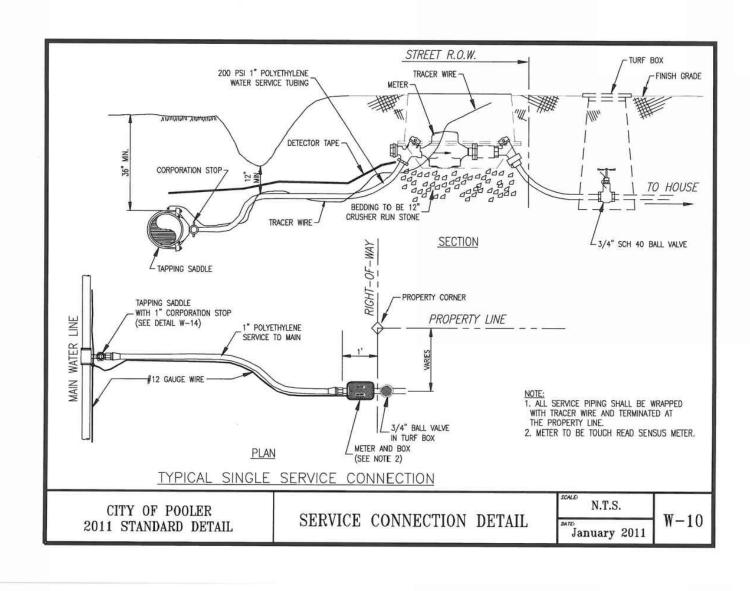
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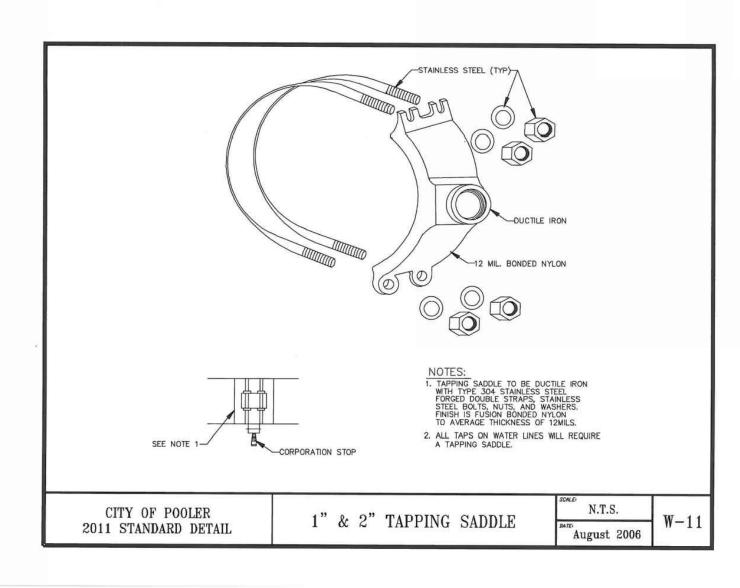
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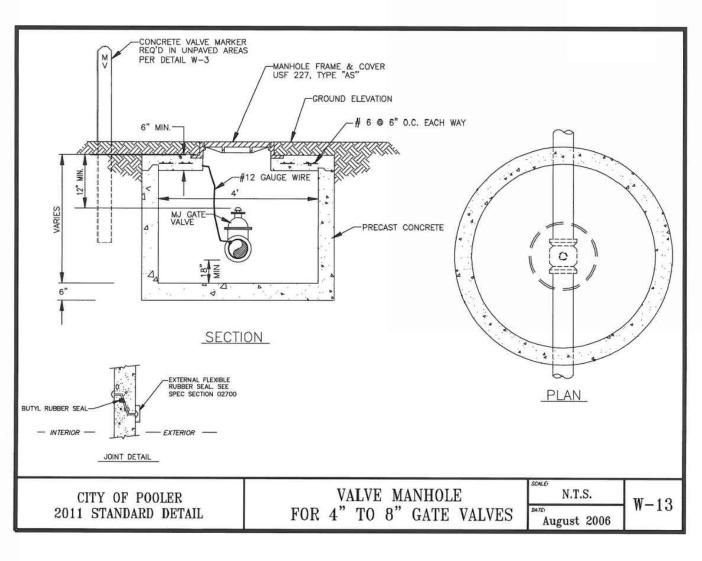


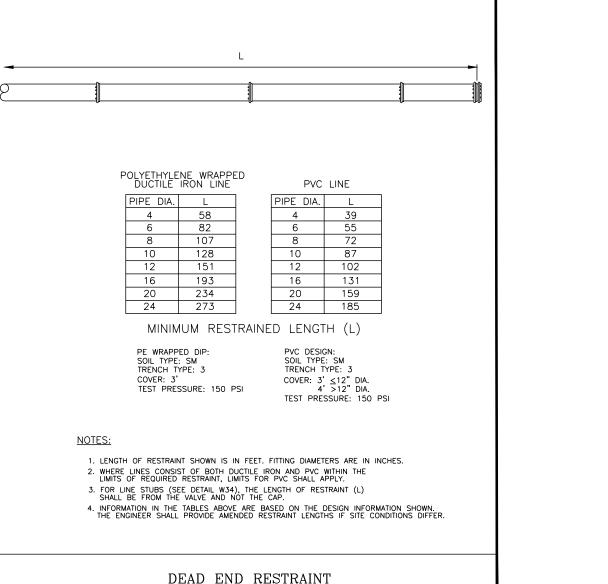


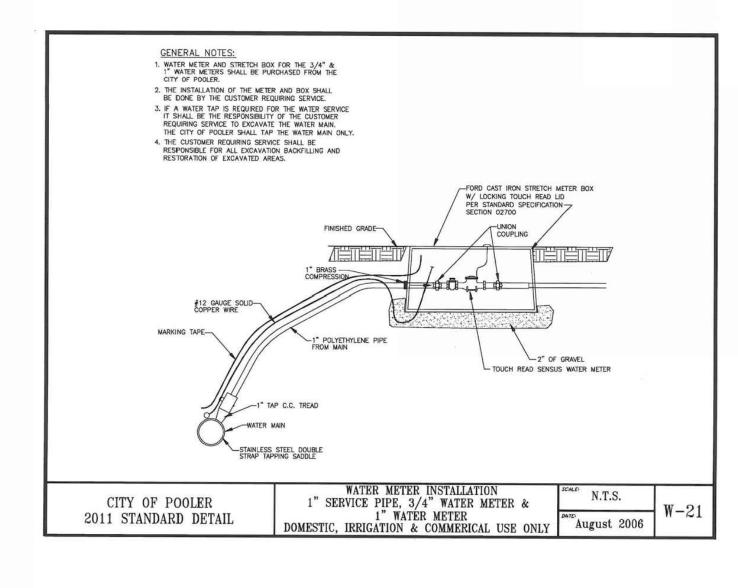


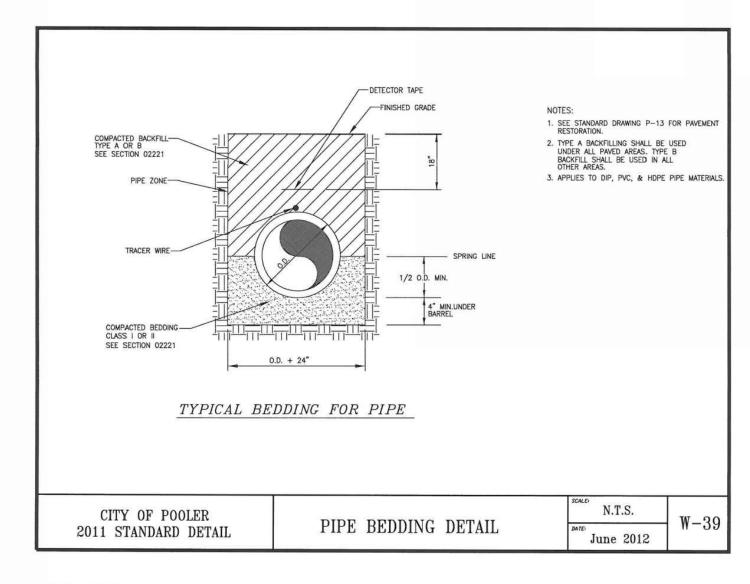


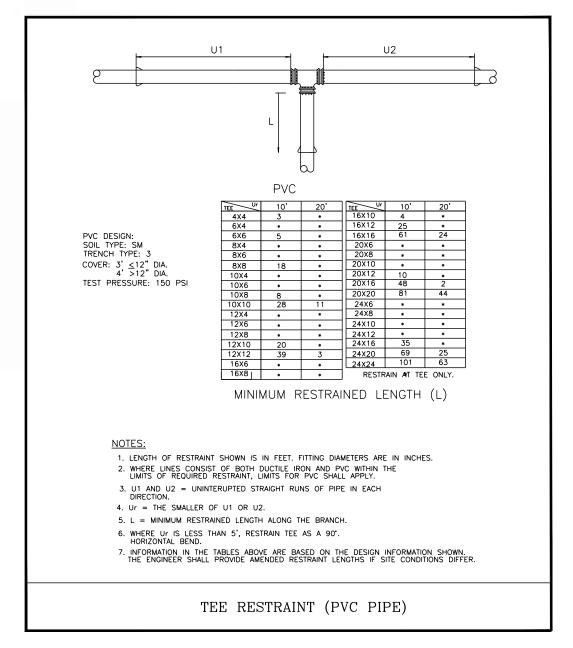


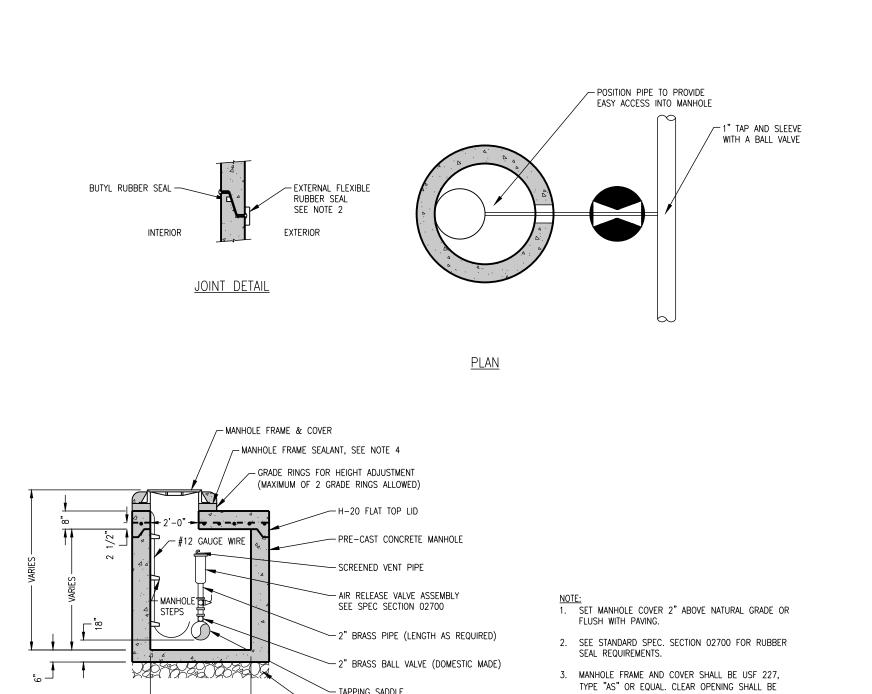












— TAPPING SADDLE

6" COMPACTED

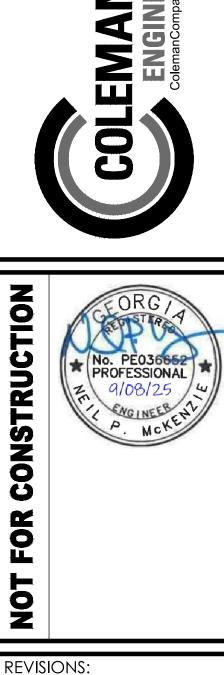
AIR RELEASE VALVE

**-** 5'-0" **-** -

<u>SECTION</u>

24" AND HEIGHT SHALL BE 6".

4. SEE STANDARD SPEC. SECTION 02700 FOR REQUIREMENTS.



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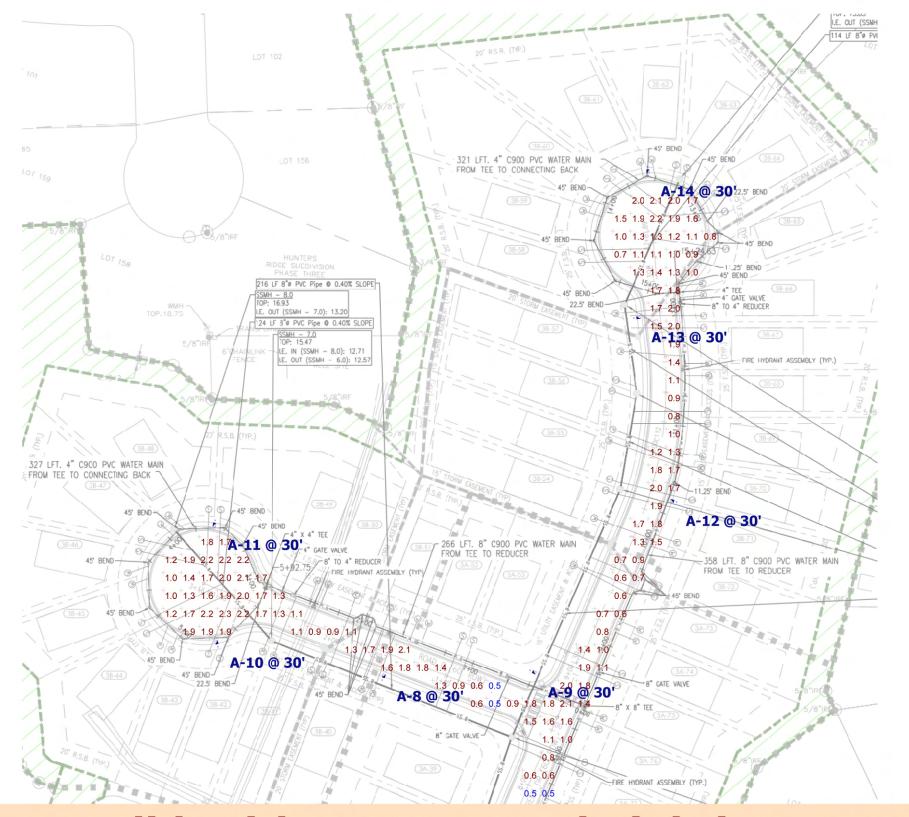
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R HARMONY PARTNERS, LLC L CONSIT

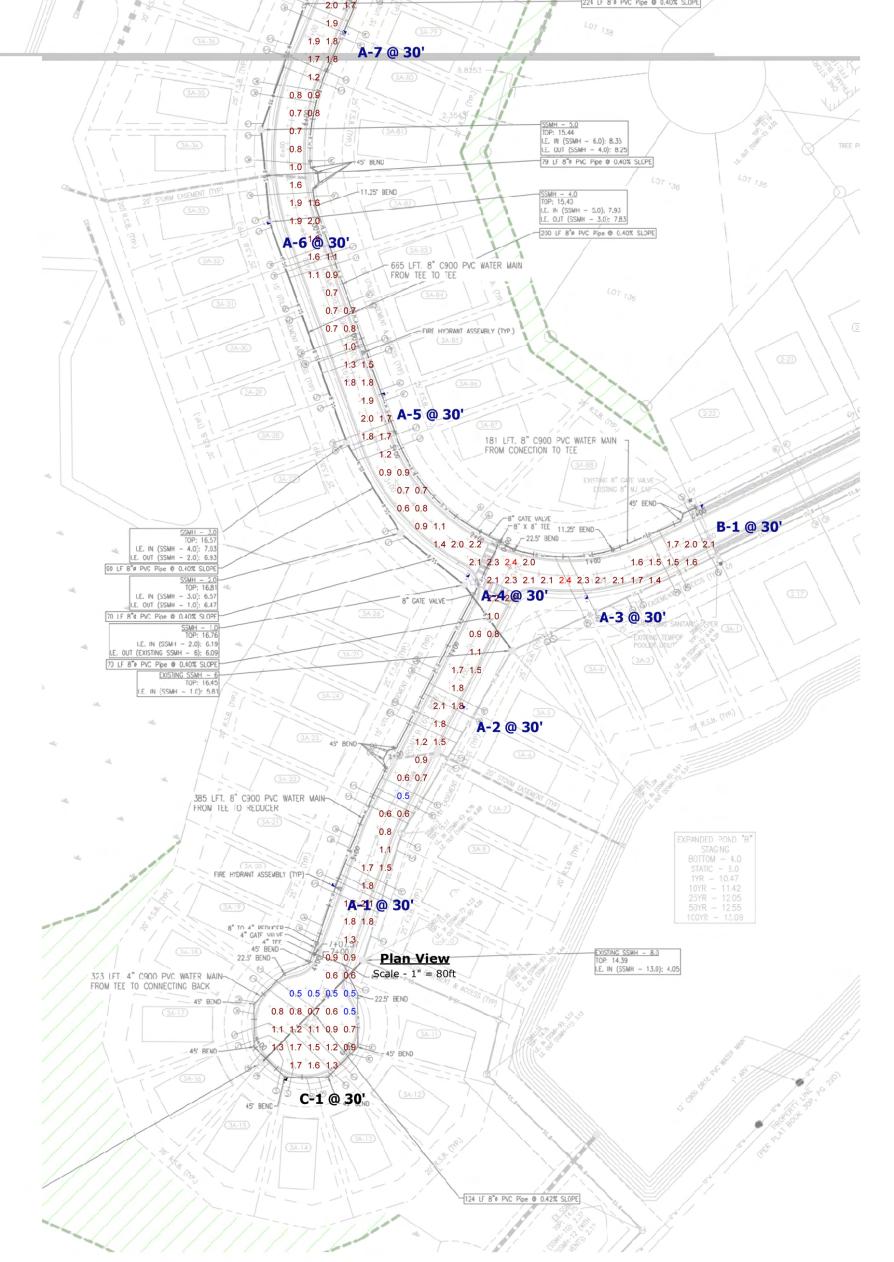
CROSS JOB NUMBER: 23-652.000 DATE: 09/08/2025 DRAWN BY: WAM CHECKED BY: NPM AS NOTED SCALE:

CONSTRUCTION **DETAILS** 





# Lighting Layout Not Valid Without Executed Lighting Agreement From Georgia Power



Schedule	3					
Symbol	Label	QTY	Catalog Number	Description	LLF	Wattage
<u> </u>	Α	14	ARCH-M-PA2-120-740-U-T3	ARCHEON-M ROADWAY AND AREA LUMINAIRE (2) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 16 LEDS AND TYPE III OPTICS	0.912	122
	В	1	ARCH-M-PA2-120-740-U-T3	EXISTING LOCATION FROM PHASE II - ARCHEON-M ROADWAY AND AREA LUMINAIRE (2) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 16 LEDS AND TYPE III OPTICS	0.912	122
^ 	С	1	ARCH-M-PA2-120-740-U-T4W	ARCHEON-M ROADWAY AND AREA LUMINAIRE (2) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 16 LEDS AND TYPE IV WIDE OPTICS	0.912	122

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.4 fc	2.4 fc	0.5 fc	4.8:1	2.8:1

- 1. Readings are shown in units of maintained footcandles.
- Total Light Loss Factor (LLF) = .912 LLF for LED
   Test Plane = 0' Above grade
   Fixture Mounting Height = See Plan view.
   Fixture Spacing = See Plan view.

- 6. This photometric layout was calculated using specific criteria. Any deviation from stated parameters will affect actual 7. These lighting calculations are not a substitute for independent engineering analysis of lighting system suitability and safety.

As Shown Drawing No. S45424B1 Summary

Scale

4/28/2025

This lighting design is not a professional engineering drawing and is provided for informational purposes only, without warranty as to accuracy, completeness, reliability or otherwise. Frazier Photometrics is not responsible for specifying the lighting or illumination requirements for any specific project. It is the obligation of the end-user to consult with a professional engineering advisor to determine whether this lighting design meets the applicable project requirements for lighting system performance, safety, suitability and effectiveness for use in a particular application. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual field performance to differ from the calculated photometric performance represented in this lighting design. In no event will Frazier Photometrics be held responsible for any loss resulting from any use of this lighting design.

# EROSION, SEDIMENT & POLLUTION CONTROL PLANS FOR

# CROSS CREEK SUBDIVISION

PHASE 3

# PREPARED FOR HARMONY PARTNERS,LLC

DESIGN PROFESSIONAL'S CREDENTIALS:

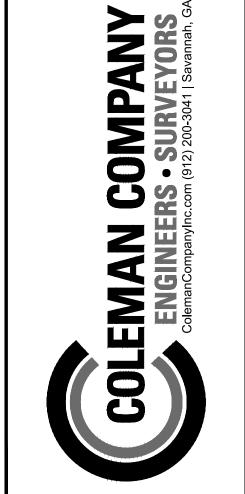
ENGINEER'S NAME (PRINTED):

GEORGIA PE NUMBER:

NEIL P McKENZIE, PE
PE036652

GSWCC LEVEL II CERTIFICATION NUMBER: 44944

VICINITY MAP (N.T.S.) REVISIONS SHEET INDEX PROJECT SITE DATA Sheet Title Sheet Number PROJECT ADDRESS: PINE BARREN ROAD **ES&PC COVER SHEET** PROJECT CITY, STATE: COV POOLER, GEORGIA HARMONY PARTNERS, LLC OWNER/REPRESENTATIVE: CE1.0 INITIAL ES&PC PLAN ±89.00 AC PROPERTY AREA: CE1.1 **INITIAL ES&PC PLAN** ±22.00 AC DISTURBED AREA: JABOT PUD ZONING: CE2.0 INTERM ES&PC PLAN NAVD 88 VERTICAL DATUM: CE2.1 **INTERM ES&PC PLAN** NAD 83 HORIZONTAL DATUM: CE3.0 FINAL ES&PC PLAN X, AE-12FLOOD ZONE: POOLER WATER & SEWER PROVIDER: CE3.1 FINAL ES&PC PLAN 5101001001A CE4.0 **EROSION CONTROL DETAILS** COLEMAN COMPANY, INC. SURVEY PREPARED BY: SHEET: **EROSION CONTROL DETAILS** CE4.1 NΑ GEOTECHNICAL BY: NΑ ARCHITECT: CE5.0 NPDES PERMIT NOTES VICINITY MAP 32.0878, -81.2464; 32.0840, -81.2455 CONSTRUCTION EXIT CE5.1 NPDES PERMIT NOTES



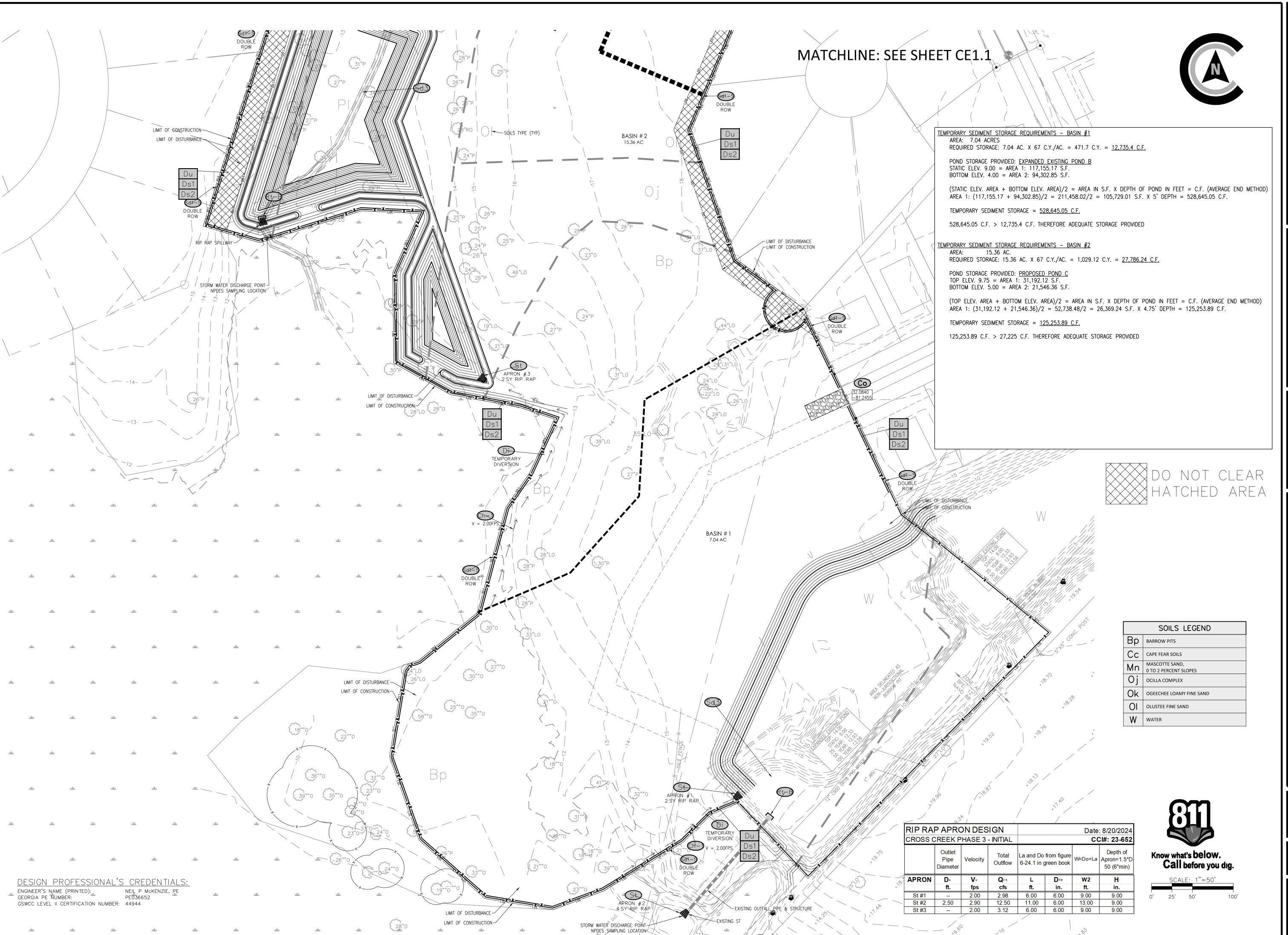


REVISIONS:

OSS CREEK SUBDIVISION PHASE
LOCATED IN POOLER, GEORGIA

JOB NUMBER: 23-652.000
DATE: 09/08/2025
DRAWN BY: WAM
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ES&PC COVER SHEET



IAN COMPANY

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**REVISIONS:** 

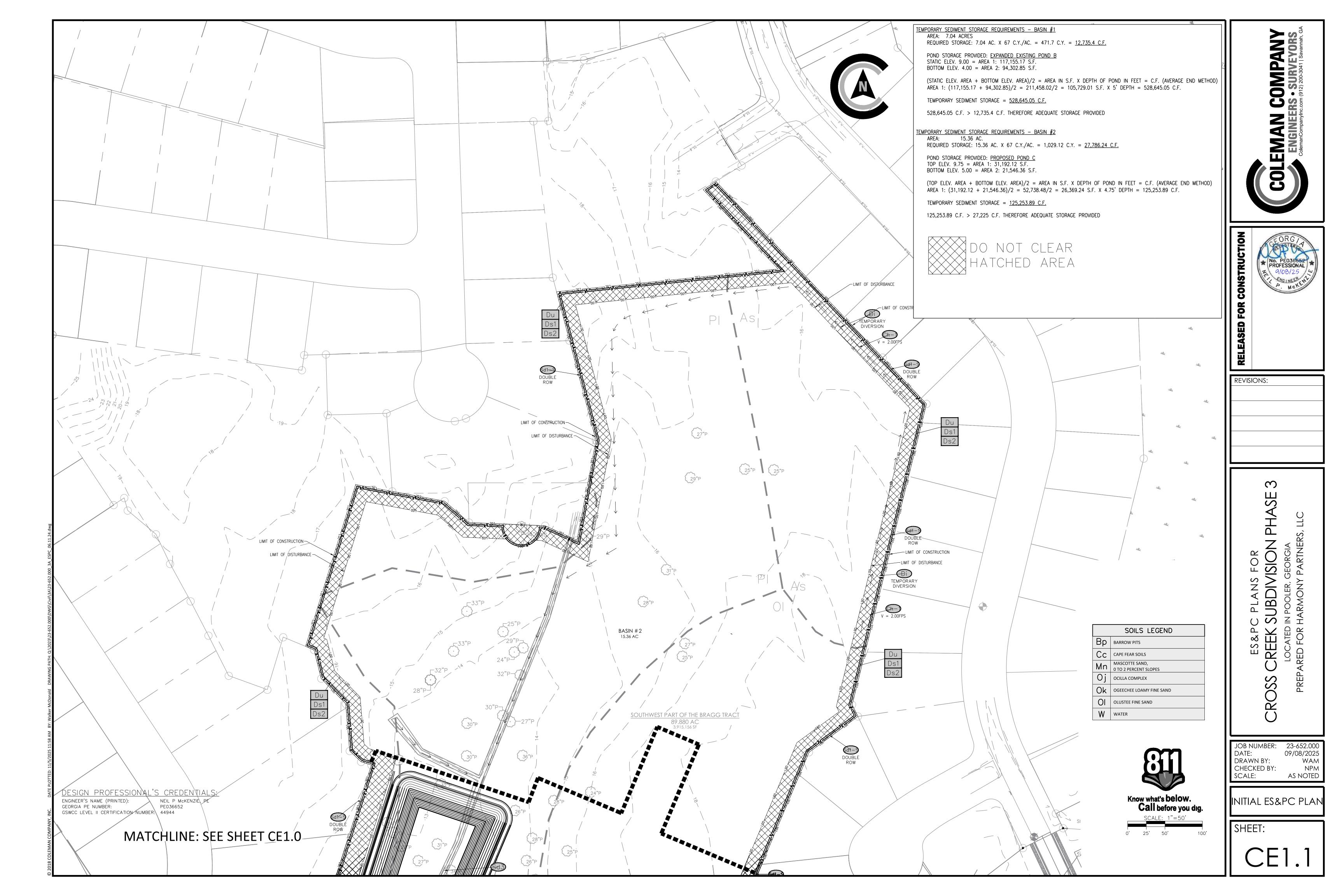
SE

SC PLANS FOR SUBDIVISION FOR DIN POOLER, GEORGIA R HARMONY PARTNERS ES&P( CREEK

JOB NUMBER: 23-652.000 DATE: 09/08/2025 DRAWN BY: WAM

CHECKED BY:

AS NOTED INITIAL ES&PC PLAN





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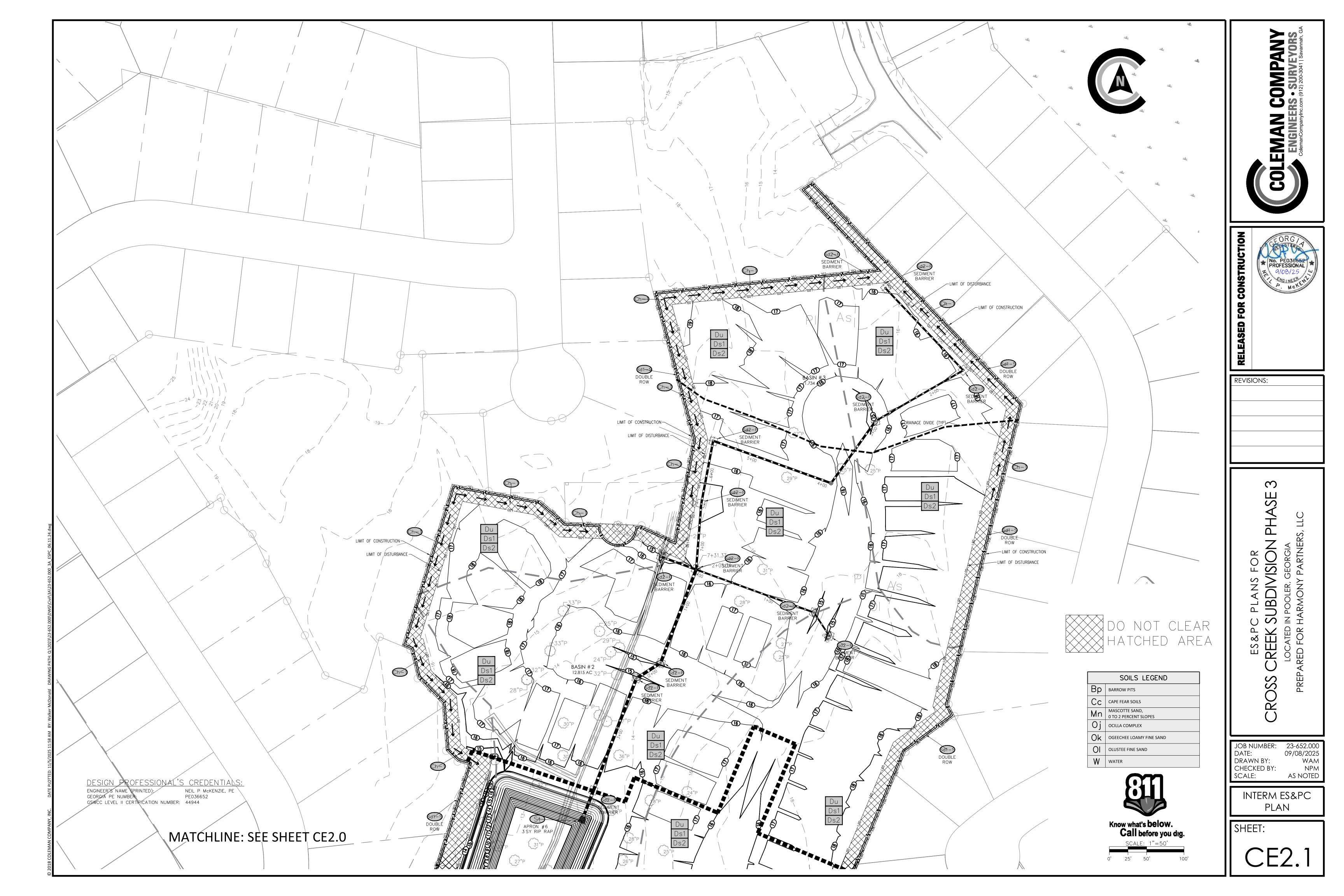
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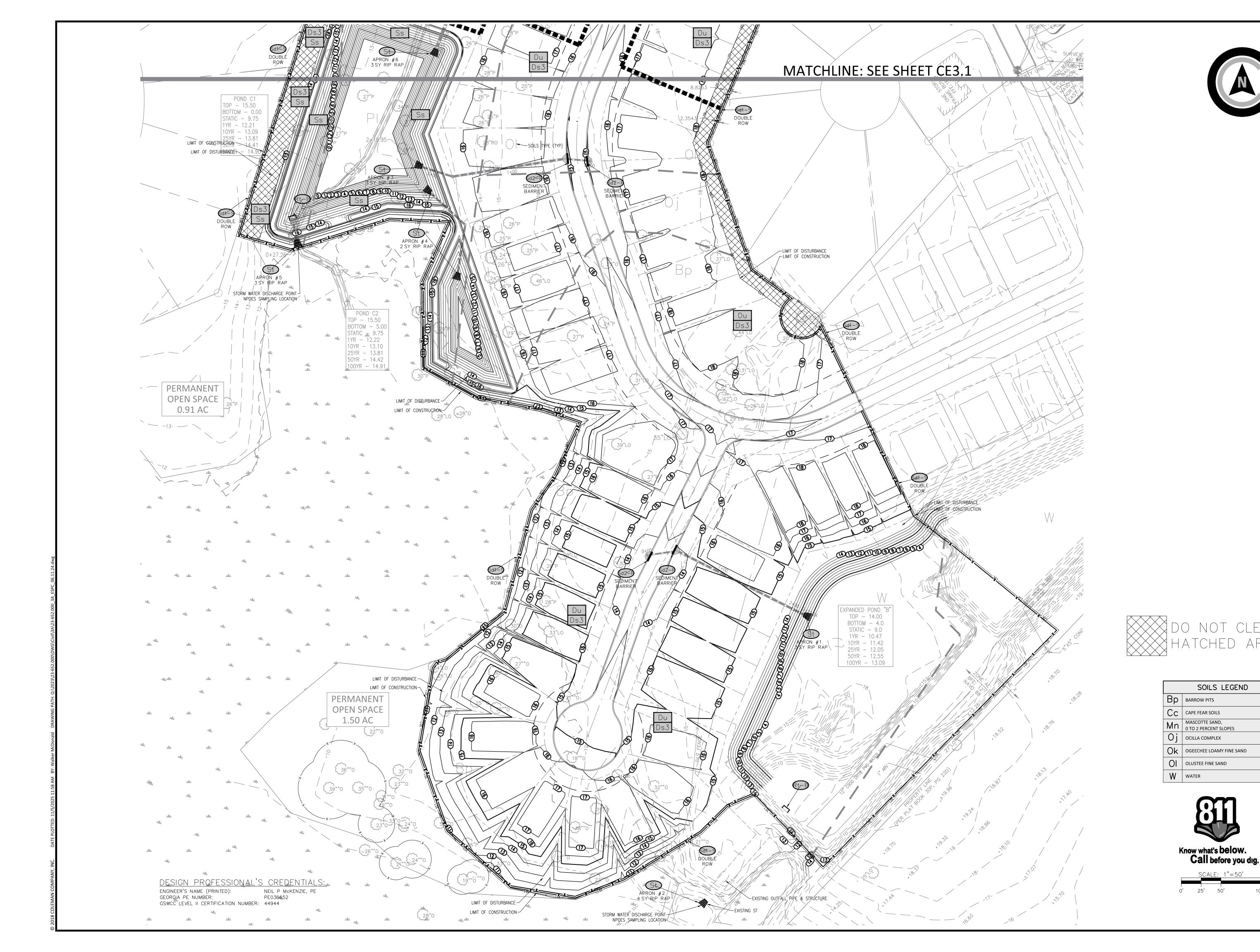
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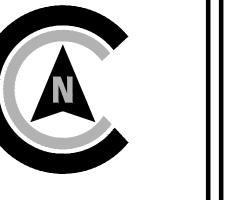
INTERM ES&PC PLAN







SOILS LEGEND



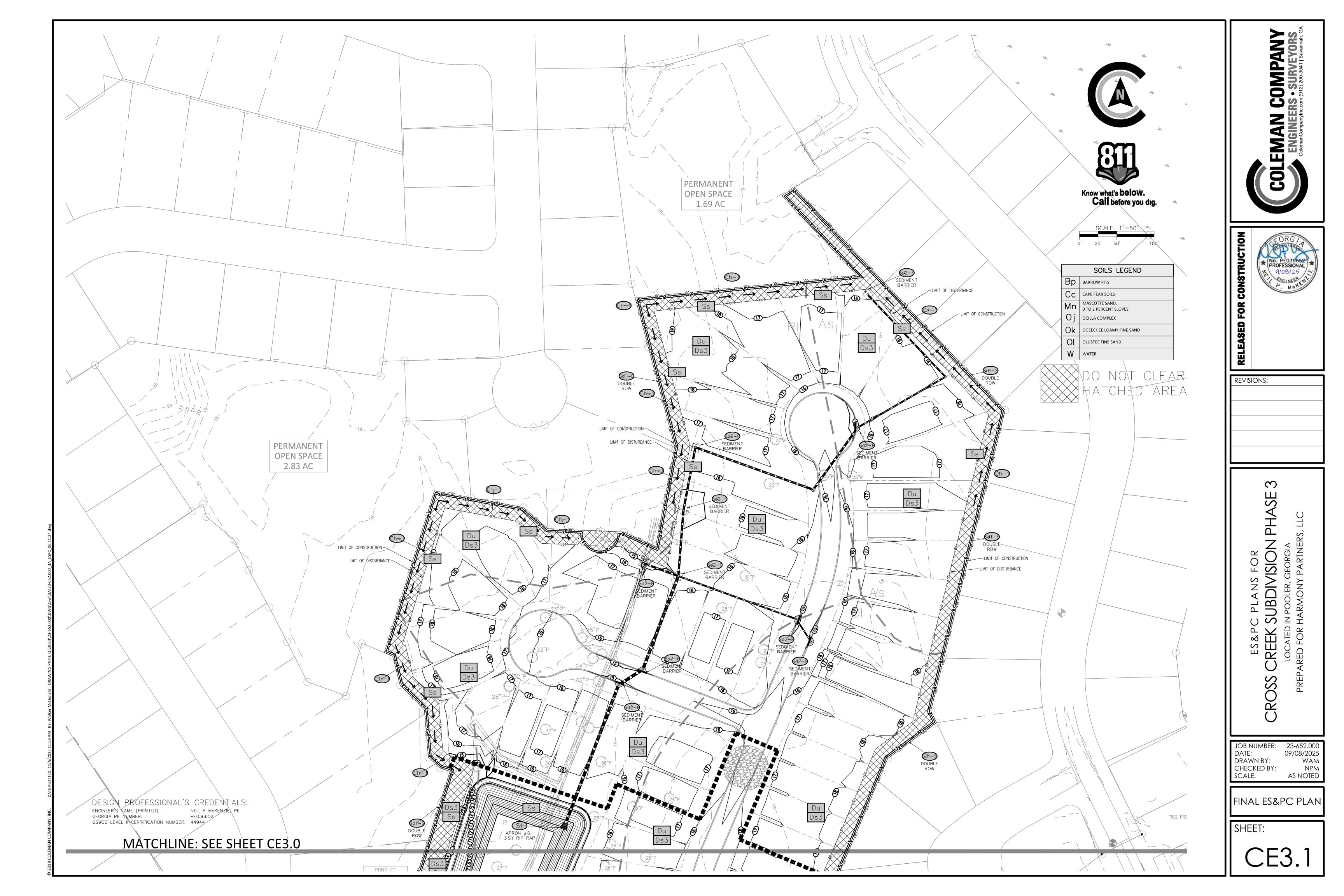


REVISIONS:

PC PLANS FOR K SUBDIVISION PHASE ES&P( CREEK

JOB NUMBER: 23-652.000
DATE: 09/08/2025
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SCALE: AS NOTED

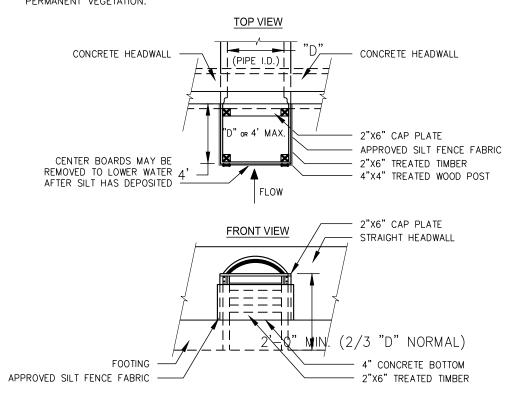
FINAL ES&PC PLAN



3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM. 4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4: X 4" TREATED LUMBER AND FACE BOARDS

SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS. 5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STABLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE) 6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR

DETERIORATED 7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.



The establishment of temporary vegetative cover with fast growing seedings for seasonal protection on disturbed or denuded areas.

Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative measures should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

### SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.		PLANTING DATES **				
Rye	3.9 pounds	3 bu.	9/1-3/1				
Ryegrass	0.9 pound	40 lbs.	8/15-4/1				
Annual Lespedeza	0.9 pound	40 lbs.	1/15-3/15				
Weeping Lovegrass	0.1 pound	4 lbs.	2/15-6/15				
Sudangrass	1.4 pounds	60 lbs.	3/1-8/1				
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15				
Wheat	4.1 pounds	3 bu.	9/15-2/1				

Unusual site conditions may require heavier seeding rates Seeding dates may need to be altered to fit temperture



# (WITH TEMPORARY SEEDING)

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions,

sediment barriers and others. No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or handseeding, seedbed preparation is not required if the

soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to

lodge and germinate. Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with ery low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

emporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds4 - Disturbed Area Stabilization (With Mulching Only).

erosion. The soil shall be thoroughly wetted to a depth that will insure

germination of the seed. Subsequent applications should be made when needed.

During times of drought, water shall be applied at a rate not causing runoff and

Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may

V V V V

TOP VIEW

METHOD AND MATERIALS

FLOW

SECTION A-A

8" CONCRETE — BLOCK WRAPPED

FILTER FABRIC

CATCH BASIN-

Mulches, See standard Ds4 - Disturbed Area Stabilization (With Mulching Only), Synthetic resins may be used instead of asphalt to bind mulch material. Refer to standard Tb-Tackifiers and Binders. Resins such as Curasol or erratack should be used according to manufacturer's recommendations.

Vegetative Cover. See standard Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to standard Tb-Tackifiers and Binders.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure which should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion. Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. PERMANENT METHODS

Permanent Vegetation. See standard Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable

Topsoiling. This entails covering the surface with less erosive soil material. See standard Tp - Topsoiling. Stone, Cover surface with crushed stone or coarse gravel, See standard Cr-Construction Road Stabilization

DISTURBED AREAS

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization..

# SPECIFICATIONS

rmanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of

centrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications. eedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used. . Tillage may be done with any suitable equipment.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION

Fillage should be done on the contour where feasible.

4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

### Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting. 2. For nursery stock plants, holes shall be large enough to accommodate roots 3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done

# when the soil is dry, preferably in August or September.

Mix the seed (innoculated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

planting, use a cultipacker seeder, drill, rotary seeder, other mechanical seeder

# Seeding will be done on a freshly prepared and firmed seedbed. For broadcast

or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment. No-Till Seeding No-till seeding is permissible into annual cover crops when planting is done

following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till eeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom

of the hole, two inches of soil shall be added and the plant shall be set in the

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching material from the following and apply as indicated:

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.

Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Drystraw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3/4:4 or steeper. 4. Sericea lespedeza hay containing mature seed shall be applied at a rate of

three tons per acre. 5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate

6. When using temporary erosion control blankets or block sod, mulch is not 7. Bituminous treated roving may be applied on planted areas on slopes, in ditches or dry waterways to prevent erosion. Bituminous treated roving shall be applied within 24 hours after an area has been planted. Application rates and naterials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment,

other spreading equipment or by hand. Mulch shall be applied to cover 75% Wood cellulose or wood fiber mulch shall be applied uniformly with hydrau seeding equipment.

Anchor straw or hay mulch immediately after application by one of the fol Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is ejected from the blower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other

### The combination of asphalt emulsion and water shall consist of a homogeneous mixture satisfactory for spraying. The mixture shall consist of 100 gallons of grade SS-th or CSS-th emulsified asphalt and 100 gallons of water per ton of

2. Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "packer disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.

Care shall be taken at all times to protect state waters, the public, adjacent

property, pavements, curbs, sidewalks, and all other structures from asphalt

- CATCH BASIN - PAVEMENT

. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION. . WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.

FACE OPENINGS IN BLOCKS OUTWARD. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE

CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO

- CATCH BASIN

- PAVEMENT

- CURB APRON (GUTTER)

5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

-8" CONCRETE BLOCKS

-CURB APRON (GUTTER)

Synthetic tackifiers or binders approved by GDOT shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. Refer to fb - Tackifiers and Binders. 4. Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one half bushel per acre. 5. Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to

manufacturer's specifications.

Irrigation shall be applied at a rate that will not cause runoff.

# SEEDING RATES FOR PERMANENT SEEDING

ipment, 5% of	SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
	BAHIA	1.4 POUNDS	60 LBS.	1/1-12/31
aulic	BERMUDA	0.2 POUND	10 LBS.	2/15-7/1
	CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
ollowing	LESPEDEZA	1.7 POUNDS	75 LBS.	1/1-12/31
3	WEEPING LOVE GRASS	0.1 POUND	4 LBS.	2/1-6/15
ly er than	SWITCH GRASS	0.9 POUND	40 LBS.	3/15-6/1

 Unusual site conditions may require heavier seeding rates \*\* Seeding dates may need to be altered to fit temperature variations and conditions.

MULCHING WITHOUT TEMPORARY GRASSING: WOOD MULCH SHALL BE PLACED AT A RATE OF 140 TONS PER ACRE AND APPLIED TO A DEPTH OF 2 TO 3 INCHES.

TEMPORARY GRASSING: AGRICULTURAL LIME: APPLY 1 TON/ACRE FERTILIZER: FOR SOILS WITH VERY LOW FERTILITY, APPLY 500-700 LBS. 10-10-10 PER ACRE FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. SOIL TEST ARE REQUIRED PRIOR TO PERMANENT VEGETATION. PERMANENT GRASSING SHALL BE SOD.

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS

1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2-1/2 TONS PER 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER WILL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE

3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 OR STEEPER. 4. <u>SERICEA LESPEDEZA HAY</u> CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE. 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES OTHER SUITABLE MATERIALS IN SUFFICIENT QUALITY MAY BE USED WHERE ORNAMENTALS OR OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS. 6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD,

INDICATED ABOVE) AFTER HYDRAULIC SEEDING.

MULCH IS NOT REQUIRED BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON OPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. \* WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY ISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE O ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING

TRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR Y HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

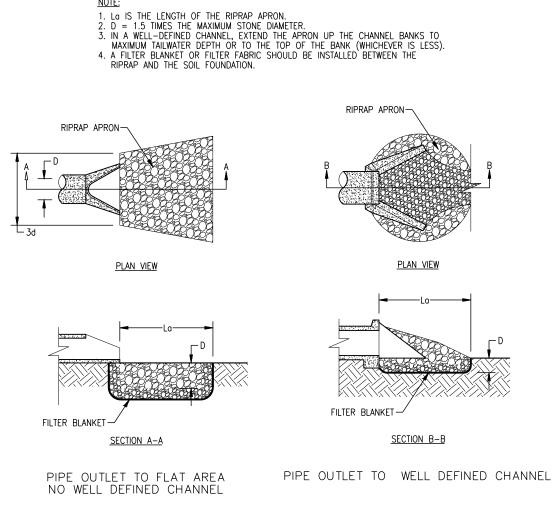
RIDGE WIDTH = 4FT (4 FT MINIMUM

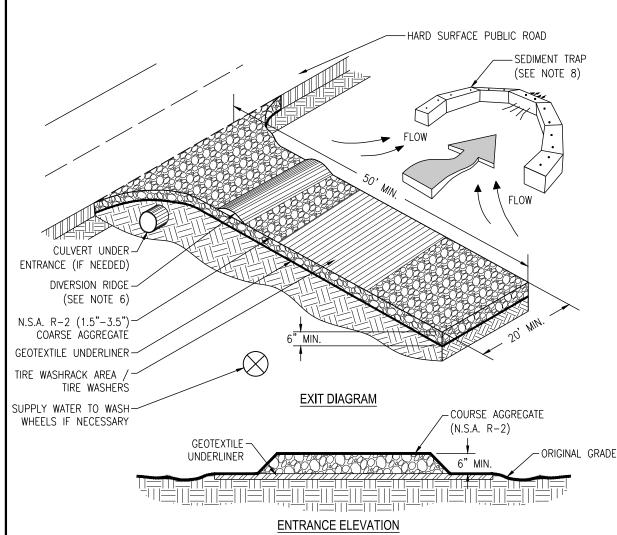
RIDGE HEIGHT = 1FT

**FREEBOARD** 

= 0.5FT

BOTTOM WIDTH





2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE

3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).

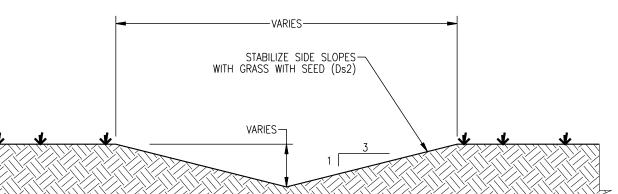
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".

6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%...

7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.

8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL

10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP



CHANNEL STABILIZATION

design professional's credentia NEIL P McKENZIE, F ENGINEER'S NAME (PRINTED):

AS NOTED EROSION CONTRO DETAILS

COMP/ RS - SURVE

PROFESSIONAL

**REVISIONS:** 

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RMON

23-652.000

09/08/202

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NPN



FRONT VIEW 1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET

TOP VIEW

STAPLE PLACEMENT

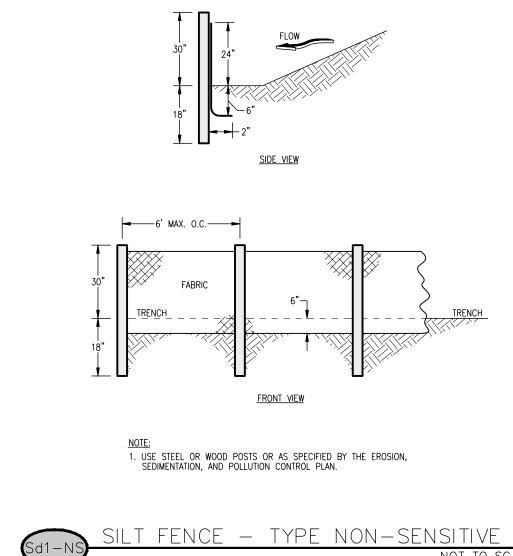
WOOD POST WITH-

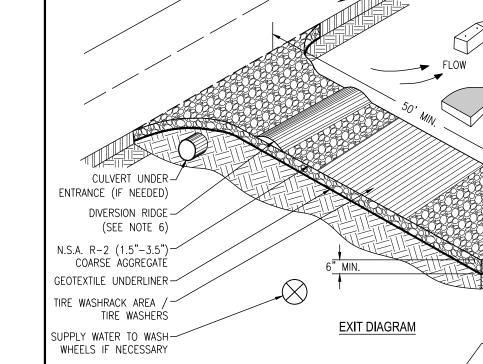
NAIL PLACEMENT

← WIRE-BACKING - GATHER EXCESS WIRE-BACKING COMPACTED SOIL DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).

THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART) THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP. OR COMPACTED SOIL HE FABRIC SHOULD BE ENTRENCHED AT LEAST " AND THEN BACKFILLED WITH CRUSHED STONE

STEEL FRAME AND SILT FENCE INSTALLATION







NOTES:

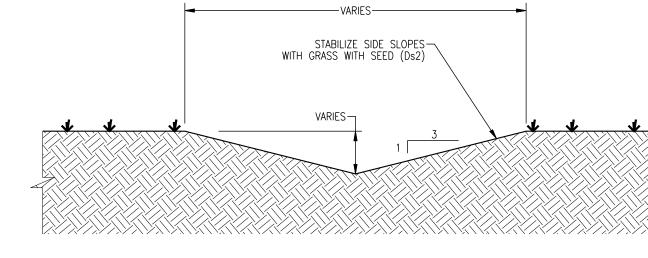
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS

5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.

9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL <u>SUITABLE</u> FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.

DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.





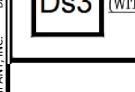
GEORGIA PE NUMBER: PE036652

GSWCC LEVEL II CERTIFICATION NUMBER: 44944

JOB NUMBER:

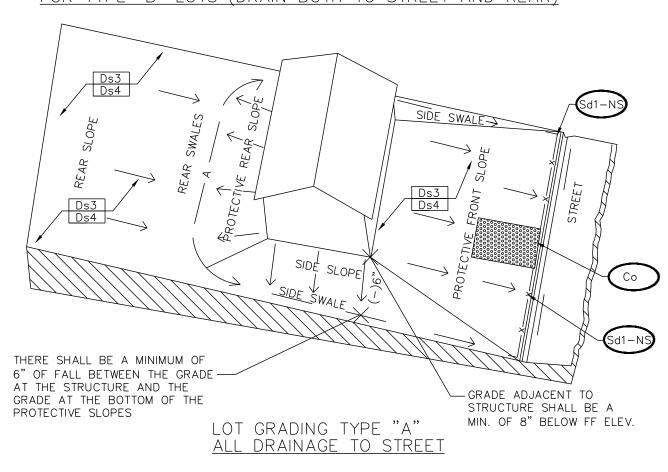
DRAWN BY:

CHECKED BY:



Broadcast plantings

INDIVIDUAL LOT GRADING EROSION CONTROL BMP'S FOR TYPE "B" LOTS (DRAIN BOTH TO STREET AND REAR)



TEMPORARY SEDIMENT STORAGE REQUIREMENTS - BASIN #1

AREA: 7.04 ACRES REQUIRED STORAGE: 7.04 AC. X 67 C.Y./AC. = 471.7 C.Y. = 12,735.4 C.F.

POND STORAGE PROVIDED: <u>EXPANDED EXISTING POND B</u> STATIC ELEV. 9.00 = AREA 1: 117,155.17 S.F. BOTTOM ELEV. 4.00 = AREA 2: 94,302.85 S.F.

(STATIC ELEV. AREA + BOTTOM ELEV. AREA)/2 = AREA IN S.F.  $\times$  DEPTH OF POND IN FEET = C.F. (AVERAGE END METHOD) AREA 1: (117,155.17 + 94,302.85)/2 = 211,458.02/2 = 105,729.01 S.f. X 5' DEPTH = 528,645.05 C.f.

TEMPORARY SEDIMENT STORAGE = 528,645.05 C.F.

528,645.05 C.F. > 12,735.4 C.F. THEREFORE ADEQUATE STORAGE PROVIDED

TEMPORARY SEDIMENT STORAGE REQUIREMENTS - BASIN #2 15.36 AC.

REQUIRED STORAGE: 15.36 AC. X 67 C.Y./AC. = 1,029.12 C.Y. = 27,786.24 C.F.

POND STORAGE PROVIDED: PROPOSED POND C TOP ELEV. 9.75 = AREA 1: 31,192.12 S.F.BOTTOM ELEV. 5.00 = AREA 2: 21,546.36 S.F.

(TOP ELEV. AREA + BOTTOM ELEV. AREA)/2 = AREA IN S.F. X DEPTH OF POND IN FEET = C.F. (AVERAGE END METHOD) AREA 1: (31,192.12 + 21,546.36)/2 = 52,738.48/2 = 26,369.24S.F. X 4.75' DEPTH = 125,253.89 C.F.

TEMPORARY SEDIMENT STORAGE = 125,253.89 C.F.

125,253.89 C.F. > 27,225 C.F. THEREFORE ADEQUATE STORAGE PROVIDED

RIP RAP APRON DESIGN

Total

Outflow 6-24.1 in green book

St #3 2.00 1.97 3.54 9.00 6.00 11.00 9.00

St #4 2.00 2.70 11.25 9.00 6.00 11.00 9.00 St #5 2.00 2.30 25.60 11.00 6.00 13.00 9.00

St #6 3.00 2.30 12.12 9.00 6.00 11.00 9.00 ST #7 -- 2.00 3.51 6.00 6.00 9.00 9.00

9.00 6.00

11.00 6.00

CROSS CREEK PHASE 3

Outlet

APRON D<sub>0</sub>

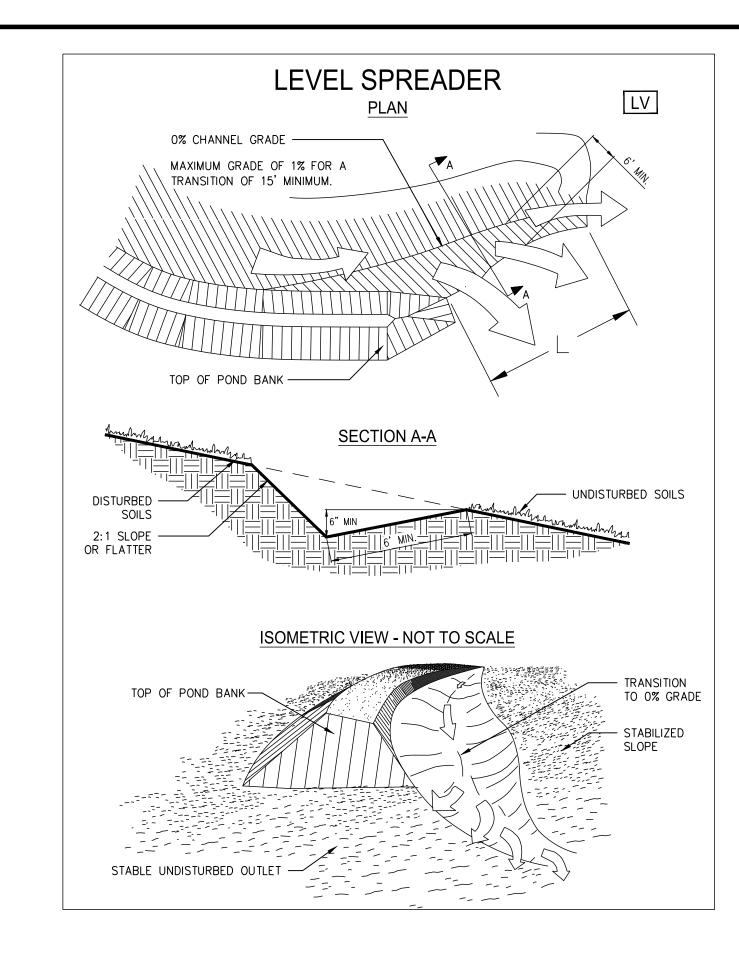
Pipe

Velocity

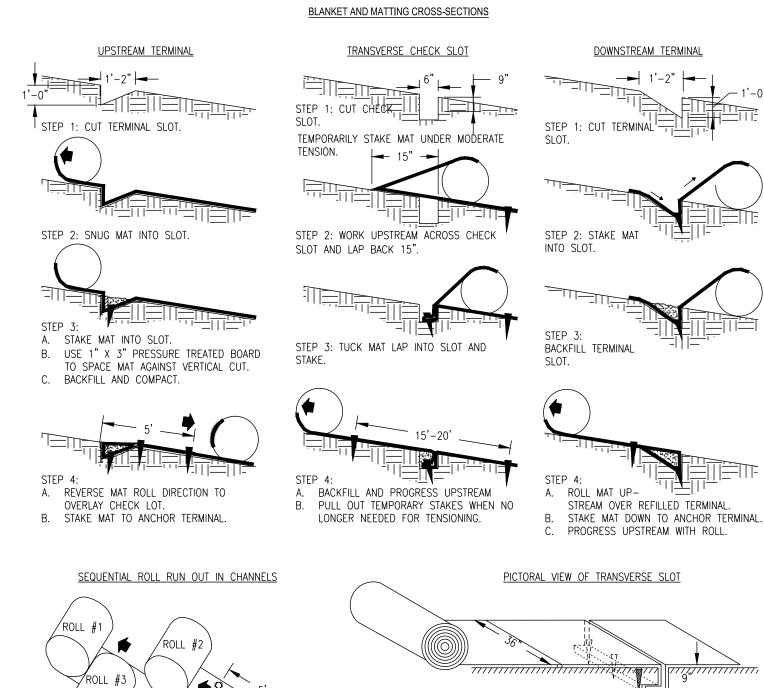
V

St #1 1.50 1.54 4.20

St #2 2.50 2.90 12.50



### TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)



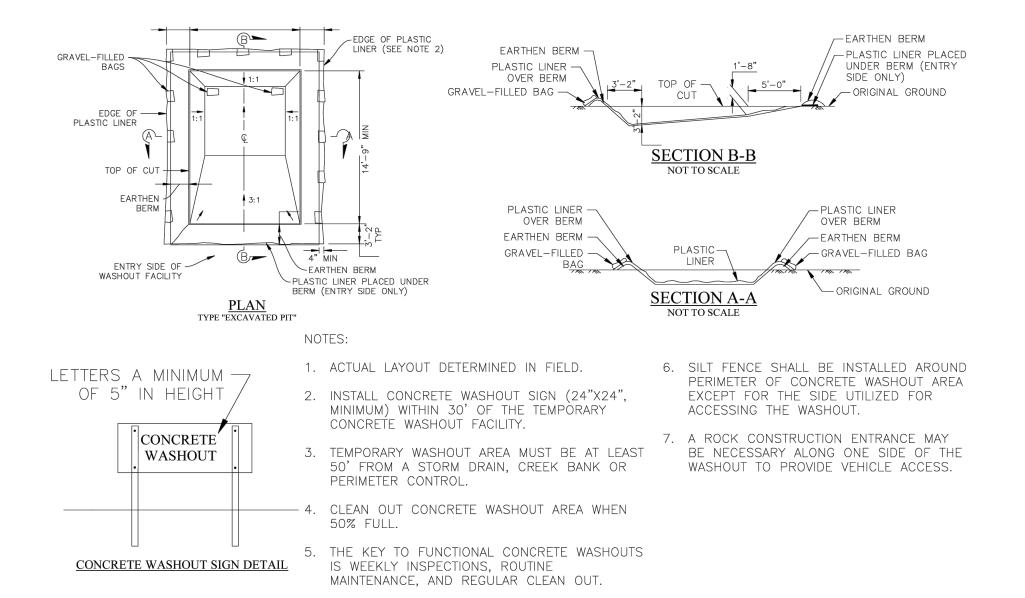
. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.

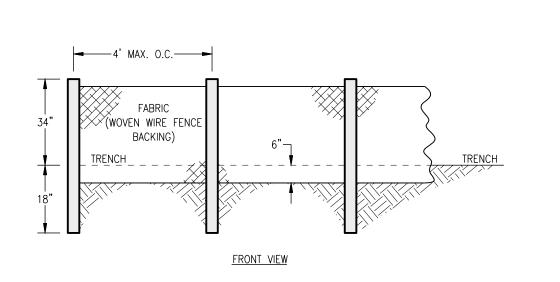
USE 3" OVERLAPS AND STAKE AT 5' INTERVALS ALONG THE SEAMS. 6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT THE LINING AT THE ROLL ENDS.

NOT TO SCALE

LOPE STABILIZATION

# **EXCAVATED PIT CONCRETE WASHOUT**





SIDE VIEW

1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Date: 3/28/2024

La and Do from figure W=Do+La Apron=1.5\*C

W2

CCI#: 23-652

Depth of

50 (6"min)

V COMPANY EERS - SURVEYORS

CONSTRUC PROFESSIONAL FOR

**REVISIONS:** 

SE

N PHA SC PLANS FOR SUBDIVISION PHOIN POOLER, GEORGIA
R HARMONY PARTNERS, L ES&P(

JOB NUMBER: 23-652.000 DATE: 09/08/2025 DRAWN BY: CHECKED BY: NPM AS NOTED

**EROSION CONTROL** DETAILS

SHEET:

GSWCC LEVEL II CERTIFICATION NUMBER: 44944

GEORGIA PE NUMBER: PE036652 GSWCC LEVEL II CERTIFICATION NUMBER: 44944 (4) TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL

NAME: COLE CHENOWITH ADDRESS: 2702 WHATLEY AVENUE SAVANNAH GA, 31404 PHONE: 678-491-1210

(5) PRIMARY PERMITTEE / DEVELOPER / OWNER NAME: HARMONY PARTNERS, LLC ADDRESS: 2702 WHATLEY AVENUE SAVANNAH GA, 31404 PHONE: 912-925-3440

EMAIL: CCHENOWITH@LANDMARK24.COM

EMAIL: CCHENOWITH@LANDAMRK24.COM THE TOTAL ACREAGE FOR THE STIE IS ±89.00 AC ACRES DISTURBED ACREAGE IN THIS PHASE IS ±22.00 AC ACRES THE TOTAL ACREAGE FOR THE SITE IS ±89.00 AC ACRES

THE GPS LOCATION OF THE CONSTRUCTION EXIT FOR THE SITE IS 32.0840° LATITUDE, -81.2455° LONGITUDE

DESCRIPTION AND NATURE OF THE CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS EXTENSION OF AN EXISTING SUBDIVISION WITH NECESSARY INFRASTRUCTURE TO SUPPORT

IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES, RESIDENTIAL AREAS, WETLANDS, MARSHLANDS, ETC. WHICH MAY BE AFFECTED. - HARMON CANAL IS THE RECEIVING WATERS

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF THE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SICNAL - GSWCC LEVEL II CERTIFICATION NUMBER: 44944

12 I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

SIGN PROFESSIONAL - GSWCC LEVEL II CERTIFICATION NUMBER: 44944

13 I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. CAR 20003.

NEIL P McKENZIE, PE - DESIGN PROFESSIONAL - SSWCC LEVEL II CERTIFICATION NUMBER: 44944

FOR COMMON DEVELOPMENT PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED II WRITING AND GAEPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL PRIOR TO COMMENCING WITH CONSTRUCTION ACTIVITIES AS REQUIRED BY PART III.D.2 OF THE PERMIT UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED. "THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WITHIN DESIGN AFROR THIS JUNE 1007 - DAY VISIT CERTIFICATION DATE OF INSPECTION:

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

GSWCC LEVEL II CERTIFICATION NUMBER: 44944 NEIL P. McKENZIE, PE - DESIGN PROFESSIONA

"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."

ADDITIONAL SITE/EROSION CONTROL NOTES: A. ZONING: THE PRESENT ZONING CLASSIFICATION FOR THIS SITE IS JABOT PUD. PIN(S): 5101001001A

 $\left<^{16}\right>$  B. "NO BUFFERS ARE REQUIRED FOR THIS PROJECT. C. EROSION CONTROL PROGRAM: CLEARING SHALL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH SHALL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL SHALL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND SHALL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES SHALL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES SHALL BE PREVENTED BY THE INSTILLATION OF STORM

DRAIN OUTLET PROTECTION DEVICES. D. STANDARDS AND SPECIFICATIONS: ALL DESIGNS SHALL CONFORM TO AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR

EROSION AND SEDIMENT CONTROL IN GEORGIA". E. SAFETY PROTECTION: CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.

F. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY. ANY DAMAGES OBSERVED SHALL BE REPAIRED BY THE END OF THAT DAY, CLEANOUT OF SEDIMENT CONTROL STRUCTURES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS SHALL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS SHALL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES SHALL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION SHALL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS

G. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. H. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR

PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER. I. BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN FLOOD ZONE X, AE-12, IS A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBER 13051C0128G DATED 08/16/2018.

J. THERE MARE WATERS LOCATED ON OR WITHIN 200' OF THIS SITE.

K. THE LEGIAN DEMEDANTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS: 1480 Chatham Parkway, Suite 100 SAVANNAH, GA 31405 (912) 200-3041

ARE STABILIZED.

"AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

"WASTE MATERIALS SECTION 404 PERMIT." "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES."

"EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL

MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE." "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE

STABILIZED WITH MULCH OR TEMPORARY SEEDING." APPENDIX B NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES - WARM WATER (SUPPORTING WARM WATER FISHERIES)

NO. GAR100003														
SURFACE WATER DRAINAGE AREA (SQUARE MILES) 0-4.99 5-9.99 10-24.99 25-49.99 50-99.99100-249.9250-499.99														
© 1.00−10	75	150	200	400	750	750	750	750						
YO 10.01-25	50	100	100	200	300 5		750	750						
) <sub>出</sub> 25.01-50	50	50	100	100	200	300	750	750						
<sup>7</sup> 50.01−100	50	50	50	100	100	150	300	600						
변 5 100.01+	50	50	50	50	50	100	200	100						
**REFER TO	GA DEPARTM	ENT OF NATU	JRAL RESOUF	RCES ENVIRON	MENTAL PRO	TECTION DIVI	SION GENERA	L PERMIT						

NO. GAR100003 FOR COMMON DEVELOPMENT FOR DEFINITIONS AND DETAILS.\*\* THIS CONSTRUCTION ACTIVITY DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR

WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA (23) IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. (INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.)

IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 23 OF THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN CHECKLIST) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF N.O.I., THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.

WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES SHALL BE ALLOWED AT THE CONCRETE WASHOUT AREA, TO BE DESIGNATED IN THE FIELD BY THE CONTRACTOR. WASHOUT OF THE CONCRETE MIXER'S DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

PETROLEUM SPILL CLEANUP AND CONTROL PRACTICES •LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.

•MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, AND SAWDUST WHICH ARE STORED IN PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

• SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. •ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

•FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. •FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITH IN 24 HOURS AT 1-800-424-8802.

•FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE EPD SHALL BE CONTACTED WITHIN 24 HOURS AT (800) 241-4113 OR (404) 656-4863 •FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP PROBULOGASPECIFICAGENCIESTRUSS BE CONTACTED AS REQUIRED.

• CONTRACTOR SHALL MAINTAIN WEATHER-PROOF COVER FOR ALL BUILDING MATERIALS AND PRODUCTS STORED •PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

• PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. • CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE

SURPLUS CONCRETE OR DRUM WASH WATER ONSITE. •FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS. BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL SHALL BE DISPOSED OF IN

PROPER WASTE DISPOSAL PROCEDURES. (28) PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES

AFTER COMPLETION OF CONSTRUCTION ACTIVITIES 1. PERMANENT SEEDING: THE SITE SHALL BE STABILIZED UTILIZING PERMANENT SEEDING TO PRE-TREAT THE STORMWATER RUNOFF PRIOR TO ENTERING THE DOWNSTREAM CONVEYANCE BY REMOVING SEDIMENT AS WELL AS ANY ATTACHED CHEMICALS FROM RUNOFF. PERMANENT SEEDING ALSO PREVENTS EROSION, REDUCES THE VOLUME AND VELOCITY OF THE RUNOFF AND IMPROVES WATER QUALITY

2. TEMPORARY DIVERSION DITCHES WILL ACT AS NATURAL BIOFILTERS TO REDUCE STORM WATER VELOCITY AND POLLUTANT LOAD PRIOR TO RELEASE OF THE RUNOFF INTO THE DOWNSTREAM CONVEYANCE. THIS IS ACCOMPLISHED VIA INFILTRATION AND SETTLEMENT. 3. WET POND: THE PERMANENT POOL OF THE WET POND ENHANCES PARTICULATE SETTLING BY INCREASING

RESIDENCE TIME AND WILL EFFECTIVELY HAVE AN 80% TSS REMOVAL RATE, BY ALLOWING SETTLEMENT OF THE SEDIMENT AND OTHER POLLUTANTS THAT ARE TRANSFERRED TO THE POND VIA OTHER CONVEYANCES, THUS ELIMINATING THE RELEASE INTO AND IMPROVING THE WATER QUALITY OF THE DOWNSTREAM CONVEYANCE. WET PONDS ALSO SIGNIFICANTLY REDUCE THE VOLUME AND THE VELOCITY OF THE RUNOFF CONTRIBUTING TO THE DOWNSTREAM CONVEYANCE. SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS SECTION IS APPLICABLE TO PRIMARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEES WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES. THIS SECTION IS NOT APPLICABLE TO SECONDARY PERMITEES. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY. a.SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE COMMON DEVELOPMENT: (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP. THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORMWATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP: (2). THE ANALYTICAL METHOD USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE TI SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES): AND (4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL. b. SAMPLE TYPE:

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED): THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY

(1). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES . THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION. (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED. (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEE WITH TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLING POINTS SHALL BE LOCATED ON ALL APPLICABLE PAGES OF INITIAL, INTERMEDIATE AND FINAL PHASE OF THE EROSION SEDIMENT AND POLLUTION CONTROL PLANS. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORMWATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

c. SAMPLING POINTS.

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORMWATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S). (D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE

OUTFALL STORMWATER CHANNEL. (E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. (G). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL. 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.4. OR III.D.5., WHICHEVER IS APPLICABLE.

\*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY

(31) INSPECTION REQUIREMENTS BY THE PERMITTEE: A. PRIMARY PERMITTEE REQUIREMENTS.

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS

2. MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND PROVIDED TO THE SECONDARY PERMITEE, IF APPLICABLE. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE: (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS

4. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD ) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

5. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. THE PRIMARY PERMITTEE MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.D.4.b(5). WHEN A SECONDARY PERMITTEE NOTIFIES THE PRIMARY PERMITTEE OF ANY PLAN DEFICIENCIES.

6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5) . OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY AN INCIDENT, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

B. SECONDARY PERMITTEE. 1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE SECONDARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE SECONDARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE SECONDARY PERMITTEE SITE WHERE THAT PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A FINAL STABILIZATION CERTIFICATION IS SIGNED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTOR'S IF THEY ARE SECONDARY PERMITTEES.

2. CERTIFIED PERSONNEL (PROVIDED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES) SHALL INSPECT THE FOLLOWING EACH DAY ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT THE CONSTRUCTION SITE: (A) AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION; (B) AREAS USED BY THE UTILITY COMPANIES AND UTILITY CONTRACTORS FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE UTILITY COMPANY'S AND UTILITY CONTRACTORS' CONSTRUCTION ACTIVITIES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS WHEN THEY ARE SECONDARY PERMITTEES PERFORMING SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

3. CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN CALENDAR DAYS: (A) DISTURBED AREAS OF THE SECONDARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE SECONDARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE SECONDARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY. NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.B.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A FINAL STABILIZATION CERTIFICATION IS SIGNED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES

4. CERTIFIED PERSONNEL (PROVIDED BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL FINAL STABILIZATION CERTIFICATION IS SIGNED) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES.

5. BASED ON THE RESULTS OF EACH INSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF ANY SUSPECTED BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH PART IV.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPS WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE.

6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.B.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND A FINAL STABILIZATION CERTIFICATION ON THE PLAN IS SIGNED. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND /OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

C. TERTIARY PERMITTEE.

1. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED. USED. OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY.THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

3. CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN CALENDAR DAYS: (A) DISTURBED AREAS OF THE TERTIARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE TERTIARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE TERTIARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY, CERTIFIED PERSONNEL SHALL ALSO CONDUCT INSPECTIONS WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST). POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY REQUIREMENT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE. THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THE PERMITTEE MUST COMPLY WITH PART IV.D.4.C.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

4. CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR , POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S), EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY . WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

5. BASED ON THE RESULTS OF EACH INSPECTION. THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.

6. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION. CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL) , MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV,D,4,C,(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

SHOULD INSPECTION REVEAL ANY DEFICIENCIES, A COPY OF THE REPORT SHALL BE SENT TO:

NEIL MCKENZIE, P.E. COLEMAN COMPANY, INC. 1480 Chatham Parkway, Suite 100 SAVANNAH, GA 31405 912-200-3041

(32) SAMPLING FREQUENCY & REPORTING A. SAMPLING FREQUENCY.

> 1. THE PRIMARY PERMITTEE WITH A TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN ONE (1) ACRE AND TERTIARY PERMITTEE WITH TOTAL PLANNED DISTURBANCE EQUAL TO OR GREATER THAN FIVE (5) ACRES MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW FOR A QUALIFYING EVENT THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN IN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. 2. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND.

THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS a. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT ALLOWS FOR SAMPLING DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE

SAMPLING LOCATION: b. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS\* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED; d. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PRIMARY PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6) OR THE TERTIARY PERMITTEE IN ACCORDANCE WITH PART IV.D.4.C (6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND e. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS

PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE. \*NOTE THAT THE PERMITTE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING

TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OF THE WEEK.

B. REPORTING: 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE FPD. TH SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;

b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;

c. THE DATE(S) ANALYSES WERE PERFORMED; d. THE TIME(S) ANALYSES WERE INITIATED;

e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS

g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND

i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN. 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE APPLICABLE PERMITTEE(S) SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

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RCS ORIGINAL SUBMITTAL:

(2) <u>DESIGN PROFESSIONAL'S CREDENTIALS</u>: ENGINEER'S NAME (PRINTED): NEIL P McKENZIE, PE GEORGIA PE NUMBER: PE036652

GSWCC LEVEL II CERTIFICATION NUMBER: 44944 INITIAL PHASE

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPING OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.

THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY. THE CONSTRUCTION EXIT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS, MATERIALS, DIMENSIONS, ETC. AS DESCRIBED IN THE CURRENT VERSION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S "MANUAL FOR EROSION AND SEDIMENT CONTROL".

THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION

- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXIT(S). ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.
- 2. TYPE 'NS' & 'S', IF REQUIRED, AND TYPE 'S' AS APPLICABLE, SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLES AND 6-27.2. AND THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHED ½ THE HEIGHT OF THE BARRIER. THE PERIMETER THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING SILT FENCE SHALL BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED
- 3. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.
- 4. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.
- 5. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHALL BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL, NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES. THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT INLET PROTECTION AS SHOWN ON THE INTERMEDIATE PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.

THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL INSTALLATION PLAN WILL INSPECT THE INSTALLATION OF THE BMPS WITHIN SEVEN DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE INTERMEDIATE PHASE OF

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPING OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. I IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING MADE.

TYPE "NS" SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA. TABLE 6.27.1 THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT FENCE SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 THE HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE PLANS, SEE SEPARATE DETAILS FOR ADDITIONAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIERS SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED "3H:1V"

SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON THE PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND INLET PROTECTION ARE CONSTRUCTED AS SHOWN ON THE INTERMEDIATE PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171- SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CONSTRUCTION OF TRANSPORTATION SYSTEMS 2013

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 165 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, CONSTRUCTION OF TRANSPORTATION SYSTEMS. 2013 EDITION.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3"OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN

DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL

TYPE "NS" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

BE IMPLEMENTED AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

ADDITIONAL INFORMATION. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS SHOWN ON THE PLAN. SEE

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED. ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER OR THE SPECIFIED ELEVATION ON THE CLEANOUT STAKE.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL AREAS ADJACENT TO ROADWAY AND PARKING AREAS SHOULD HAVE A VEGETATIVE COVER APPLIED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL

REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF A CERTIFICATE OF OCCUPANCY OR FINAL ACCEPTANCE OF THE SITE, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

PERMIT COVERAGE THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EDP) FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR COMMON DEVELOPMENT (GAR100003).

AUTHORIZED DISCHARGES

1. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH COMMON PLANS OF DEVELOPMENT, OR OTHER CONSTRUCTION ACTIVITY WHERE THE PRIMARY PERMITEE CHOOSES TO USE A SECONDARY PERMITEES, THAT WILL LAND DISTURBANCE EQUAL TO OR GREATER THAT ONE ACRE OCCURRING ON OR BEFORE AND CONTINUING AFTER, THE EFFECTIVE DATE OF THIS PERMIT. PART I.C.1.

2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS

PROVIDED IN PART I.C.2 AND PART III.A.2 OF THE PERMIT. 3. AUTHORIZED MIXED STORM WATER DISCHARGES. THIS PERMIT MAY ONLY AUTHORIZE A STORMWATER DISCHARGE FROM A CONSTRUCTION SITE OR CONSTRUCTION ACTIVITIES MIXED WITH A STORMWATER DISCHARGE FROM AN INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION WHERE: PART I.C.2

a. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY. b. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT.

c. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY A DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT.

4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2 a. FIRE FIGHTING ACTIVITIES

**b** FIRE HYDRANT FLUSHING c. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING

d. IRRIGATION DRAINAGE e. AIR CONDITIONING CONDENSATE

f SPRINGS g. UNCONTAMINATED GROUND WATER

h. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR LIMITA FIQUESTADITS. COVERAGE PART I.C.3 THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION

B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7 (NON-STORMWATER DISCHARGES) OF

C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY BE AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.

D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.

THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORMWATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED . THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIALS

SPILLS OR RELEASES ACT (O.C.G.A 12-14-2 ET SEQ), 40 CFR PART 117 AND 40 CFR PART 302. WHERE A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A 12-14-2, ET SEQ.), 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE

ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113, AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN

III.B.2 NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03.

(33) <u>RETENTION OF RECORDS</u>

THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:

a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;

b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT

d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT; f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE

WITH PART III.D. OF THIS PERMIT; AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.

EACH SECONDARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A FINAL STABILIZATION CERTIFICATION IS SIGNED IN ACCORDANCE WITH

a. A COPY OF THE CERTIFICATION THAT THE PROVISIONS OF THE PRIMARY PERMITEE'S EROSION, SEDIMENTION AND POLUTION CONTROL PLAN APPLICABLE TO THE SECONDARY PERMITEE(S) ACTIVITIES WILL BE ADHERED

b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT OR THE APPLICABLE PORTION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN FOR THEIR ACTIVITIES AT THE CONSTRUCTION SITE REQUIRED BY THIS PERMIT;

c. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.B OF THIS PERMIT; d. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMERY REPORTS GENERATED IN ACCORDANCE WITH PART III.D. OF THIS PERMIT

3. EACH TERTIARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI: a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO E.P.D;

b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT; c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART OF IV.A.5. THIS PERMIT:

d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT; e. A COPY OF ALL INSPECTION REPORTS GENERATE IN ACCORDANCE WITH PART IV.D.4.C. OF THIS PERMIT; f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE

WITH PART OF III.D.2. THIS PERMIT; AND g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.C.(2). OF THIS PERMIT.

4. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL B RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

(2-) EACH SECONDARY PERMITTEE SHALL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE. SECONDARY PERMITTEES SIGN WHEN RECEIVING PLANS.

COMMON DEVELOPMENT NAMF: LOT(S):

DULY AUTHORIZED REPRESENTATIVE NAME PHONE: EMAIL

COMPANY: ADDRESS: PHONE:

"I CERTIFY THAT I WILL ADHERE TO THE PRIMARY PERMITTEE'S EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN OR THE PORTION OF THE PLAN APPLICABLE TO MY CONSTRUCTION ACTIVITIES".

NEIL P. McKENZIE, PE GSWCC LEVEL II CERTIFICATION NUMBER: 44944

﴿2−﴾ EACH SECONDARY PERMITEE MUST SIGN A FINAL STABILIZATION CERTIFICATION WHEN FINAL STABILIZATION HAS BEEN ACHIEVED, STORMWATER DISCHARGES HAVE CEASED AND TEMPORARY BMPS HAVE BEEN REMOVED FOR THEIR PORTION ON THE SITE. THE PLAN SHALL CONTAIN THE FOLLOWING CERTIFICATION" THE COMMON DEVELOPMENT NAME AND LOT NUMBER(S) FOR WHICH THE CERTIFICATION IS SIGNED OR FOR UTILITY SECONDARY PERMITTEES, ONLY THE COMMON DEVELOPMENT NAME THE SECONDARY PERMITTEE'S LEGAL NAME, ADDRESS TELEPHONE NUMBER AND EMAIL ADDRESS AND IF APPLICABLE, THE DULY AUTHORIZED REPRESENTATIVE'S LEGAL NAME AND/OR POSITION NAME, TELEPHONE NUMBER, EMAIL ADDRESS AND THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT EITHER: (A) THE PORTION OF THE SITE AS INDICATED ABOVE HAS MET FINAL STABILIZATION, ALL STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AUTHORIZED BY THIS PERMIT HAVE CEASED, THE SITE IS IN COMPLIANCE WITH THIS PERMIT AND ALL TEMPORARY BMPS HAVE BEEN REMOVED OR (B) I AM NO LONGER AN OWNER OR OPERATOR AT THE CONSTRUCTION SITE AND A NEW OWNER OR OPERATOR HAS ASSUMED OPERATIONAL CONTROL OF THE PERMITTED CONSTRUCTION SITE WHERE I PREVIOUSLY HAD OWNERSHIP OR OPERATIONAL CONTROL. I UNDERSTAND THAT BY SIGNING THIS FINAL STABILIZATION CERTIFICATION WHICH HAS BEEN INCORPORATED INTO THE PRIMARY PERMITTEE'S PLAN. THAT I AM NO LONGER AUTHORIZED TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY BY THE GENERAL PERMIT. AND THAT DISCHARGING POLLUTANTS IN STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF GEORGIA IS UNLAWFUL UNDER THE GEORGIA WATER QUALITY CONTROL ACT AND THE CLEAN WATER ACT WHERE THE DISCHARGE IS NOT AUTHORIZED BY A NPDES PERMIT."

RUNOFF CURVE NUMBER PRE-DEVELOPED POST-DEVELOPED \$CS METHOD USED FOR LARGE SITE

THE FOLLOWING SOILS SERIES ARE PRESENT ON THE SITE: Bp (BARROW PITS), Cc ( CAPE FEAR SOILS), Mn (MASCOTTE SAND), Oj (OCILLA COMPLEX),

Ok (OGEECHEE LOAMY FINE SAND), OI (OLUSTEE FINE SAND), W (WATER) If ONSITE CLEARING AND GRADING LEADS TO ONSITE BURNING, A COMMERCIAL BURN PERMIT SHALL BE APPLIED 55) FOR AND ISSUED BY THE CITY OF SAVANNAH FIRE MARSHAL'S OFFICE IN ADDITION TO ANY GEORGIA FORESTRY

30)TENTATIVE ACTIVITY SCHEDULE																								
CONSTRUCTION DATES:	M	10N	TH	1	М	ON <sup>°</sup>	TH	2	М	ON.	TH	3	М	ON	TH	4	М	ON	TH	5	М	ON.	TH	6
CONSTRUCTION EXIT																								
SILT FENCE AND OTHER ES&PC PRACTIC	ES																							
RETROFIT Rt																								
INLET SEDIMENT TRAP																								
CLEARING AND GRUBBING														'										
GRADING / UTILITY																								
DISTURBED AREA STABILIZATION DS2																								
FINE GRADING AND PAVING																								
BUILDING CONSTRUCTION																								
DISTURBED AREA STABILIZATION DS3																								
LANDSCAPE INSTALLATION																								
MAINTENANCE OF ES&PC BMP's																								

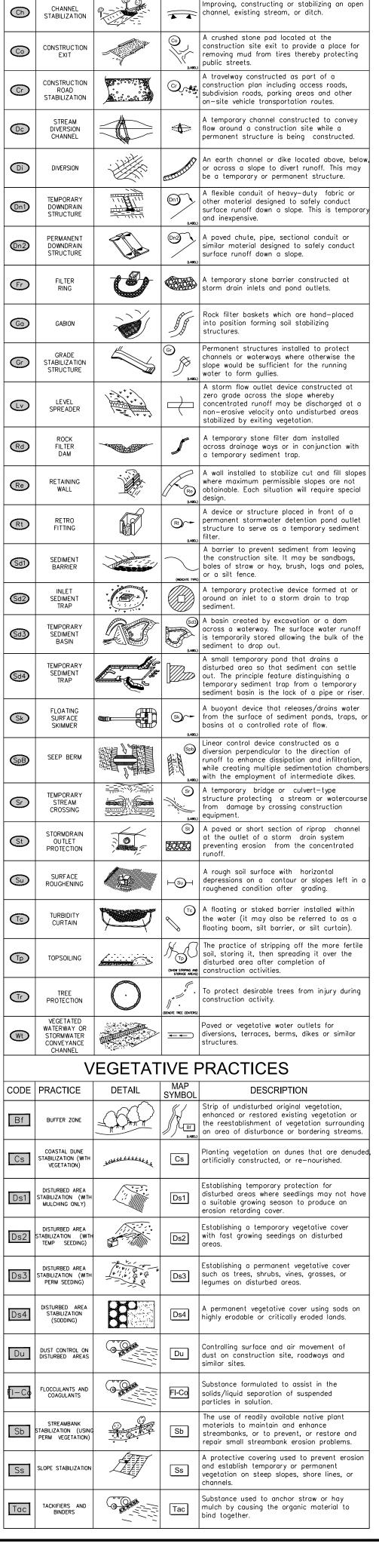
Know what's **below**.

Call before you dig.

THE ESCAPE OF SEDIMENTS FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

(8) E,S&PC PLAN CHECKLIST NUMBER

S ORIGINAL SUBMITTAL



GEORGIA UNIFORM CODING SYSTEM FOR SOIL AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

DESCRIPTION

A small temporary barrier or dam constructed

across a swale, drainage ditch or area of

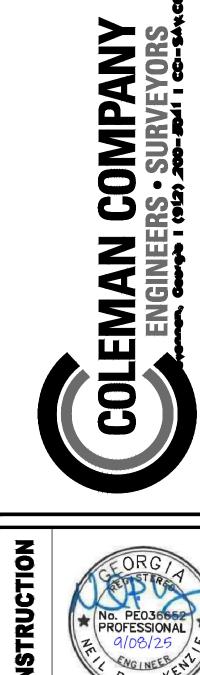
concentrated flow.

DETAIL

CODE | PRACTICE

CHECKDAM

Cd



REVISIONS:

S

ORGIA ARTNE  $\bigcirc$  $\square$ 

JOB NUMBER: 23-652.000 09/08/2025

 $\mathsf{WAN}$ NPN**AS NOTED** 

NPDES NOTES

DRAWN BY:

CHECKED BY:





TREE #	SPECIES	DBH
2	SOUTHERN MAGNOLIA	28
3	LIVE OAK	26
5	LIVE OAK	31
7	LIVE OAK	19
8	LI VE OAK	21
9	LIVE OAK	31
11	LI VE OAK	20
12	LIVE OAK	44
13	LIVE OAK	31
14	LIVE OAK	29
15	LIVE OAK	24
16	LIVE OAK	22
17	LIVE OAK	26
18	LIVE OAK	29
19	LI VE OAK	29
20	WILLOW OAK	28
22	LI VE OAK	35
23	LIVE OAK	26
24	LIVE OAK	33
25	WILLOW OAK	30
30	WILLOW OAK	33
31	WILLOW OAK	25
38	LAUREL OAK	52
40	WILLOW OAK	41
41	WILLOW OAK	32
42	WILLOW OAK	31

### TOTAL MITIGATION

LAUREL OAK	52	9 - 6" CALIPER TREES
LIVE OAK	476	79 - 6" CALIPER TREE\$
WILLOW OAK	220	37 - 6" CALIPER TREES
SOUTHERN MAGNOLIA	28	5 - 6" CALIPER TREES

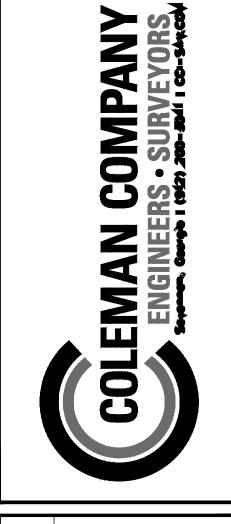
## SIGNIFICANT TREES TO BE RETAINED

1	SOUTHERN MAGNOLIA	24
10	LIVE OAK	26

REFER TO SHEET L3.0 FOR ARBORIST REPORT

SCALE: 1"=50'





TOUR CENTER OF CAPE ARCHITECTURE OF CAPE ARCHITECTU

REVISIONS:

EORGIA PARTNERS. LLC

PHASE 3

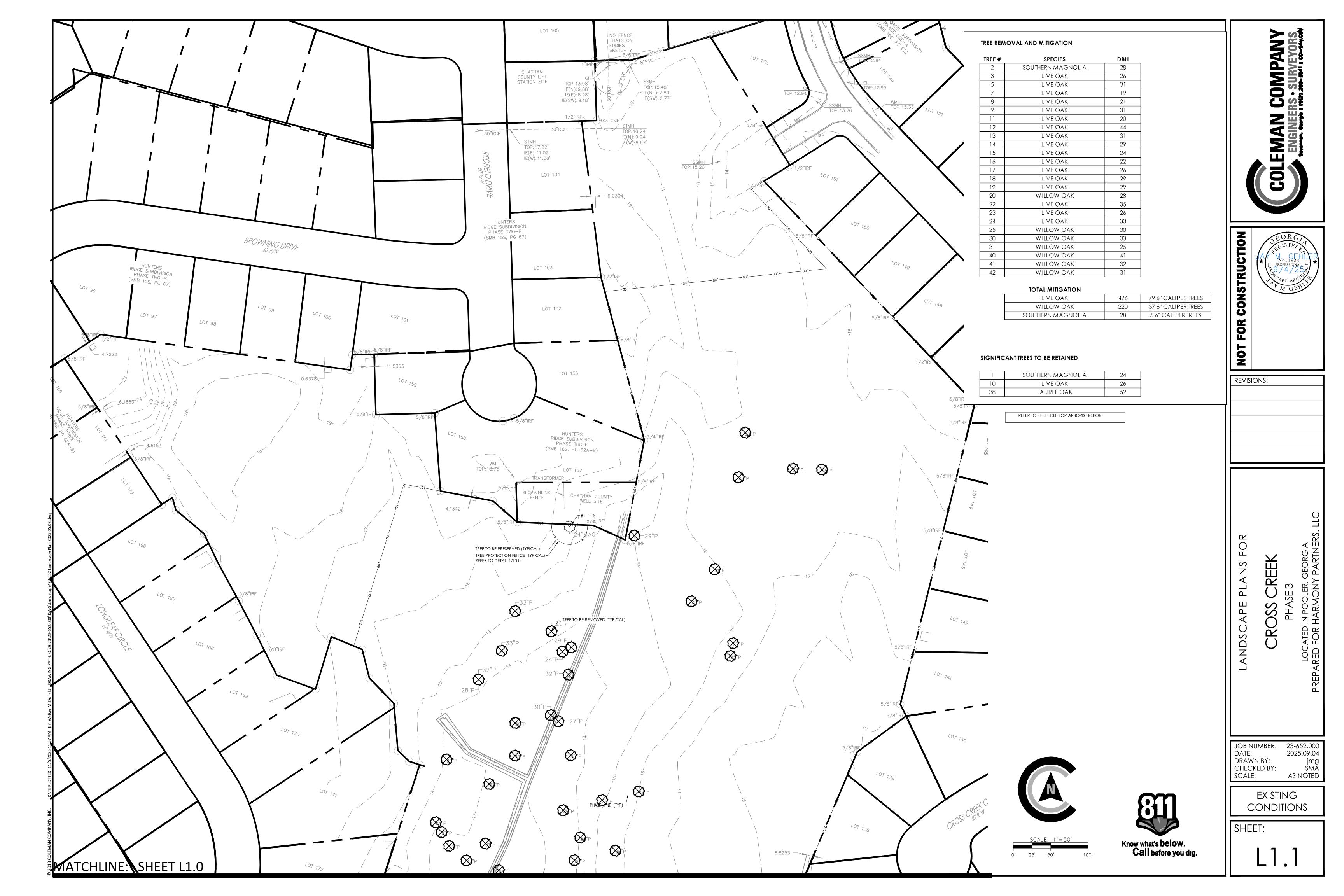
OCATED IN POOLER, GEORGI,

JOB NUMBER: 23-652.000
DATE: 2025.09.04
DRAWN BY: jmg
CHECKED BY: SMA
SCALE: AS NOTED

EXISTING CONDITIONS

SHEET:

L1.0





TREES			COMMON NAME
AR	16	ACER RUBRUM 'RED SUNSET	'RED SUNSET RED MAPLE
MG	5	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA
NS	61	NYSSA SYLVATICA 'DAVID ODOM'	'AFTERBURNER' TUPELO
QL	9	QUERCUS LAURIFOLIA	LAUREL OAK
QM	41	QUERCUS MICHAUXII	SWAMP CHESTNUT OAK
QP	38	QUERCUS PHELLOS	WILLOW OAK
QS	32	QUERCUS SHUMARDII	Shumard oak
QV	79	QUERCUS VIRGINIANA	LIVE OAK
TD	61	TAXODIUM DISTICHUM 'MICKELSON'	'SHAWNEE BRAVE' BALDCYPRESS
UA	53	ULMUS AMERICANA 'PRINCETON'	'PRINCETON' AMERICAN ELM
	SOD	EREMOCHLOA OPHIUROIDES	CENTIPEDE GRASS
	SEED	CONTRACTOR'S SE SEED MIX	www.hancockseed.com

ALL MITIGATION TREES SHALL BE WITHIN THE DESIGNATED BUFFER AREAS.

TORORGIAN GENLER

No. 1923

PROFESSIONAL 1\*

PROFESSIONAL 1\*

APE ARCHIVET

M GENTLER

M

REVISIONS:

EORGIA

PHASE 3

PH/ LOCATED IN PC

JOB NUMBER: 23-652.000
DATE: 2025.09.04
DRAWN BY: jmg
CHECKED BY: SMA

LANDSCAPE

LANDSCAPE PLAN

SHEET:

Know what's **below. Call** before you dig.

L2.0

NOTE:

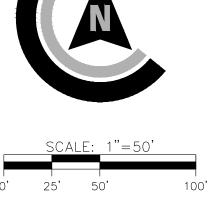
RECOMMEND MULCHING ALL CRITICAL ROOT ZONES (CRZs) UNDER ALL EXISTING TREES.

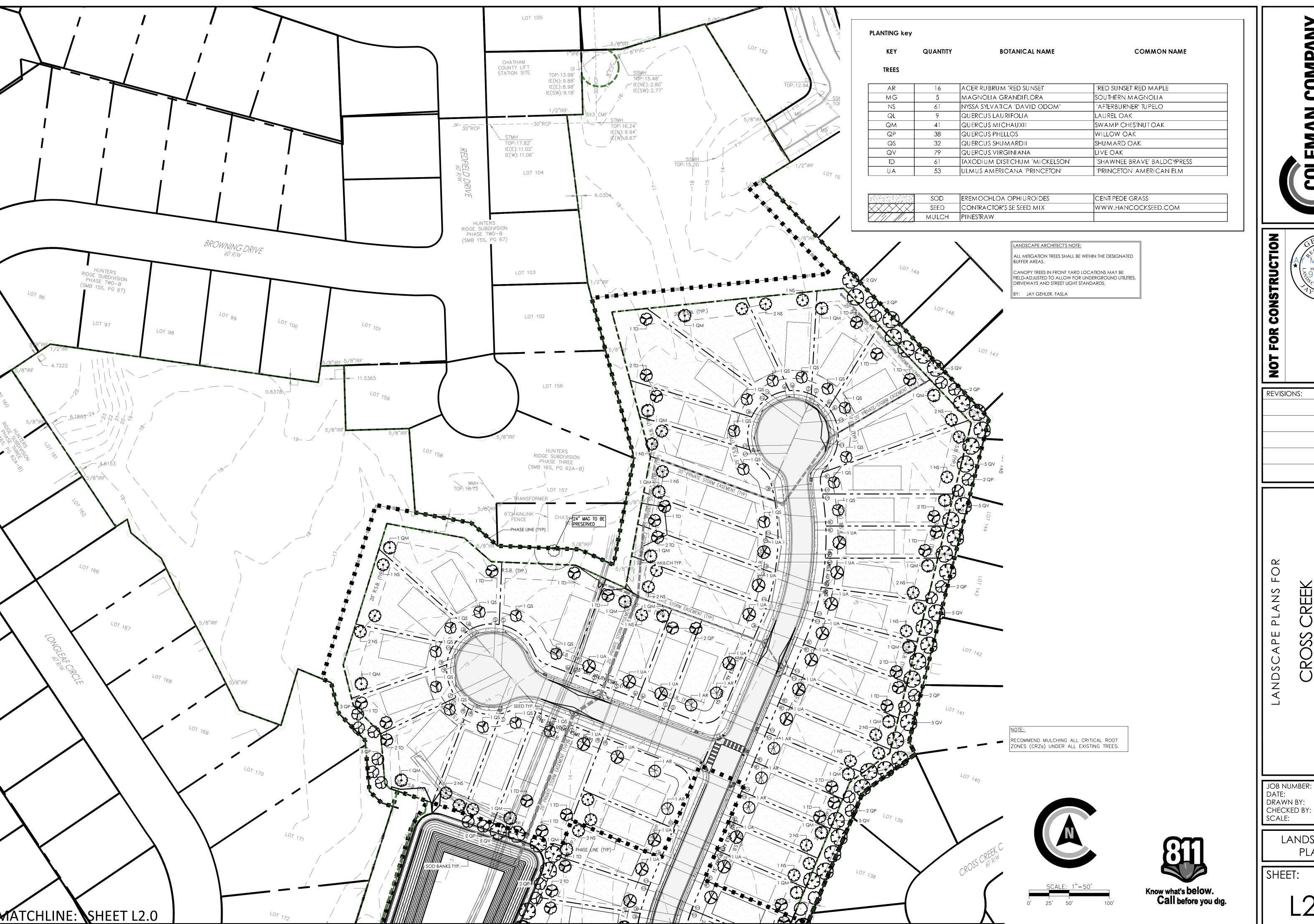
LANDSCAPE ARCHITECT'S NOTE;

ALL MITIGATION TREES SHALL BE WITHIN THE DESIGNATED BUFFER AREAS.

CANOPY TREES IN FRONT YARD LOCATIONS MAY BE FIELD-ADJUSTED TO ALLOW FOR UNDERGROUND UTILITIES, DRIVEWAYS AND STREET LIGHT STANDARDS.

BY: JAY GEHLER, FASLA





COMPANY ERS - SURVEYORS

REVISIONS:

JOB NUMBER: DATE: DRAWN BY: 23-652.000 2025.09.04 jmg SMA

> LANDSCAPE PLAN

AS NOTED

# Ossabaw Consulting

P.O. Box 30012 • Savannah, GA 31410 • ossabawconsulting@gmail.com • (912) 658 8833

### Arborist Site Report

Coleman Company, Inc. 1480 Chatham Parkway, Suite 100 Savannah, GA 31405

August 23, 2024

## **Location:**

Proposed Cross Creek 3 Pooler, GA

### **General Information:**

Documented trees were assessed to determine if they are healthy, per City of Pooler code for "significant tree". The trees were assessed during August of 2024 at a Level 2 Assessment, as defined by the International Society of Arboriculture (ISA). The inspecting arborist is under contract with the City of Pooler and this report will be the official opinion of the City of Pooler Arborist.

### **Detailed Findings and Recommendations\*:**

The following trees were identified by the inspecting arborist have structural or health related issues that would impact their potential to be a "significant tree", per City of Pooler code, and the supporting information is provided.

- Tree No. 4: 46-inch Live Oak, this tree is decayed.
- Tree No. 6: 37-inch Live Oak, this tree is decayed and has broken fallen limb.
- Tree No. 21: 39-inch Live Oak, this tree is decayed.
- Tree No. 26: 27-inch Willow Oak, this tree has internal decayed. • Tree No. 27: 30-inch Willow Oak, this tree has internal decay.
- Tree No. 28: 34-inch Live Oak, this tree is decayed.
- Tree No. 29: 26-inch Live Oak, this tree is decayed.
- Tree No. 32: 58-inch Live Oak, this tree is decayed.
- Tree No. 34: 39-inch Willow Oak, this tree is decayed.
- Tree No. 35: 32-inch Willow Oak, this tree is decayed. • Tree No. 36: 38-inch Willow Oak, this tree has internal decay.
- Tree No. 33: 36-inch Willow Oak, this tree has included bark.

• Tree No. 37: 24-inch Willow Oak, this tree is decayed.

• Tree No. 39: 33-inch Willow Oak, this tree has internal decay.

• Tree No. 43: 38-inch Willow Oak, this tree has internal decay. • Tree No. 44: 39-inch Willow Oak, this tree has internal decay.

In the opinion of the inspecting arborist, the following trees would have the potential to be a "significant tree", per City of Pooler code.

- Tree No. 1: 24-inch Southern Magnolia
- Tree No. 2: 28-inch Southern Red Oak
- Tree No. 3: 26-inch Live Oak
- Tree No. 5: 31-inch Live Oak
- Tree No. 7: 19-inch Live Oak
- Tree No. 8: 21-inch Live Oak
- Tree No. 9: 31-inch Live Oak
- Tree No. 10: 26-inch Live Oak
- Tree No. 11: 20-inch Live Oak
- Tree No. 12: 44-inch Live Oak
- Tree No. 13: 31-inch Live Oak
- Tree No. 14: 29-inch Live Oak
- Tree No. 15: 24-inch Live Oak
- Tree No. 16: 22-inch Live Oak
- Tree No. 17: 26-inch Live Oak
- Tree No. 18: 29-inch Live Oak
- Tree No. 19: 28-inch Live Oak
- Tree No. 20: 28-inch Willow Oak • Tree No. 22: 35-inch Live Oak
- Tree No. 23: 26-inch Live Oak
- Tree No. 24: 33-inch Live Oak
- Tree No. 25: 30-inch Willow Oak
- Tree No. 30: 33-inch Willow Oak
- Tree No. 31: 25-inch Willow Oak
- Tree No. 38: 52-inch Laurel Oak.
- Tree No. 40: 41-inch Willow Oak
- Tree No. 41: 32-inch Willow Oak
- Tree No. 42: 31-inch Will Oak

It is recommended that if any trees remain on site, that they have a tree protection zone to the drip line or at least 1.25ft in radii around the tree for every diameter inch of the trunk, if

### **PLANTING NOTES**

- CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL OTHER SITE IMPROVEMENTS PRIOR TO STARTING LANDSCAPE WORK AND SHALL PROMPTLY REPORT AN DISCREPANCIES. 2. CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING TO AVOID DISTURBING ANY EXISTING UTILITIES. IF ANY ARE ENCOUNTERED. CONTRACTOR IS TO PROMPTLY ADVISE THE GENERAL CONTRACTOR, LANDSCAPE ARCHITECT, AND OWNER.
- 3. GENERAL SITE CONTRACTOR SHALL PROVIDE SUBGRADE TO WITHIN  $\frac{1}{10}$  OF FINISH GRADE. 4. ALL PLANTING SHALL ADHERE TO THE STANDARDS AS SPECIFIED IN CITY OF POOLER, GA ORDINANCE.
- 5. GENERAL CONTRACTOR, SITE GRADING CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL COORDINATE REMOVAL OF ANY AND ALL 'SOIL-CEMENT' OR 'CEMENT-MODIFIED SOIL' CONDITIONS THAT WILL IMPEDE TREE, SHRUB, AND/OR

### PLANT QUALITY:

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREES, SHRUBS, GROUNDCOVER, VINES AND SOD AS SHOWN ON LANDSCAPE PLAN. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W. SUITE 500, WASHINGTON D.C. 20005, (202) 789-2900. ALL PLANT MATERIAL SHALL HAVE A ONE-YEAR WARRANTY UPON ACCEPTANCE BY THE OWNER.
- 3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, AND HAVE A NORMAL WELL-DEVELOPED BRANCHING STRUCTURE AND A VIGOROUS FIBROUS ROOT SYSTEM. PLANTS SHALL BE HEALTHY, VIGOROUS, AND FREE FROM INSECTS AND DISEASE. TREE TRUNKS NOT LOWER THAN FOUR FEET ABOVE THE GROUND, DEPENDENT ON THE SPECIES. TRUNKS AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGAL CANKERS, GALLS, INSECT BORERS, DIE BACK, FROST CRACKS, SUN SCALD, OR OTHER DEFECTS THAT WOULD CAUSE THE TREE TO DECLINE OR BECOME STRUCTURALLY UNSOUND. TREES SHALL BE DENSELY FOLIATED WHEN IN LEAF.
- 4. ALL PLANTS SHALL BE COMMERCIALLY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF POOLER, GA 5. ALL PLANTS SHALL EQUAL OR EXCEED THE MINIMUM SIZE AS SHOWN IN THE PLANT LIST, AND ALL METHODS OF PLANT MEASUREMENT SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK".
- CALIPER OF MULTI-TRUNK TREES SHALL BE DETERMINED BY MEASURING THE LARGEST TRUNK ONLY. PLANTS SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATIONS AND REQUIREMENTS. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF THE WORK. ACCEPTANCE AT THE NURSERY. IN WHICH THE PLANT IS GROWING PRIOR TO TRANSPLANTING. DOES NOT PRECLUDE REJECTION AT THE SITE FOR JUST CAUSE.

2. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETER SHALL CONFORM TO BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK". 3. ALL BALLED AND BURLAPPED PLANTS SHALL HAVE BURLAP REMOVED FROM THE TOP OF THE ROOT BALL AFTER THE POSITION OF THE PLANT IS STABILIZED. NO BURLAP SHALL BE REMOVED FROM UNDER THE BALL, AND ALL WIRE AND SURPLUS

### FROM THE TOP OF THE BALL SHALL BE REMOVED. ALL NYLON FABRIC AND/OR PLASTIC TYING TWINE SHALL BE REMOVED.

ALL TREE SHALL BE BALLED AND BURLAPPED (B&B) OR CONTAINER GROWN. NO BARE ROOT TREES SHALL BE ACCEPTABLE.

- SEEDING AND SODDING:

  1. ALL EXTERIOR GROUND AREA NOT OCCUPIED BY BUILDINGS, STRUCTURES, PAVEMENT, PLANT MATERIAL, AND MULCH SHALL BE SEEDED OR SODDED IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH LOCAL NURSERY STANDARDS, UNLESS
- 2. ALL SEED SHALL BE PURCHASED FROM A REPUTABLE SUPPLIER AND SHALL BEAR THE CURRENT SEASON'S CERTIFICATES OF WEIGHT, PURITY AND GERMINATION. 3. ALL SOD SHALL BE COMMERCIALLY GROWN IN GEORGIA OR NEIGHBORING AREAS, STRONGLY ROOTED AND FREE FROM WEEDS.
- 4. ALL SOD SHALL BE LAYED WITHIN 48 HOURS AFTER BEING CUT AT THE NURSERY. 5. SOD SHALL BE LAYED OUT SO THAT NO VOIDS OCCUR AND IN SUCH A MANNER THAT THE END JOINTS BETWEEN INDIVIDUAL SOD PIECES OF ADJOINING ROW DO NOT COINCIDE. SOD SHALL BE LAID ON TOPSOIL AT THE REQUIRED FINISH GRADE AND SHALL BE FLUSH WITH ADJACENT PAVEMENT, CURBS, AND PLANTING BED EDGES.

CONTRACTOR SHALL PROVIDE A MINIMUM 3" DEPTH OF TOPSOIL IN ALL PLANTING AREAS. 2. ALL TOPSOIL SHALL BE FREE FROM ROCKS, DEBRIS, NOXIOUS WEEDS, EXCESSIVE WEEDS, PLANT WASTE, SUBSOIL, HEAVY CLAY, ROOTS, STUMPS, AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH 3. TOPSOIL SHALL BE NATURAL, FERTILE, SANDY LOAM POSSESSING CHARACTERISTICS COMMON TO PRODUCTIVE SOILS IN THE SOUTHEASTERN COASTAL REGION, AND IT SHALL NOT CONTAIN ANY TOXIC SUBSTANCES.

- GROUND COVER SHALL BE PLANTED AS SPECIFIED BELOW:
- 1.1. GROUND COVER SHALL BE PLANTED IN AN EQUILATERAL TRIANGULAR SPACING PATTERN AT THE ON-CENTER DISTANCES SHOWN ON THE PLANT LIST. 1.2. WHERE GROUND COVER ABUTS CURBS, PAVEMENT, SIGNS AND POLES, MINIMUM PLANTING DISTANCE SHALL BE 12" FROM CENTER OF PLANT TO SAID OBJECT.
- 1.3. GROUND COVER SHALL BE PLANTED A MINIMUM OF14" FROM CENTER OF ALL TREES.
- 2. SHRUBS AND GRASSES SHALL BE PLANTED A MINIMUM OF 4' FROM CENTER OF ALL LARGE TREES. SHRUBS AND TREES SHALL BE PLANTED A MINIMUM OF 36" FROM CURBS AT CAR PARKING AREAS TO ALLOW FOR OVERHANG, UNLESS WHEEL STOPS ARE PROVIDED.
- 4. NO LARGE OR MEDIUM TREE SPECIES SHALL BE PLANTED WITHIN TEN (10) FEET OF ANY UNDERGROUND UTILITY LINE OR UNDERNEATH ANY OVERHEAD POWER LINES. SMALL TREE SPECIES MUST MAINTAIN A MINIMUM FIVE (5) FOOT SEPARATION FROM UNDERGROUND UTILITY LINES.
- 5. TREES SHALL BE PLANTED AT PROPER DEPTH OR SHALL BE REJECTED AT TIME OF INSPECTION.
- 6. STAKE TREES ONLY WHEN NECESSARY.

## 1. CONTRACTOR SHALL PERFORM A SOIL TEST ON ALL PROPOSED LANDSCAPE AREAS BEFORE INSTALLING ANY PROPOSED PLANT MATERIAL, SOIL TEXT DOCUMENTATION SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT FOR VERIFICATION.

### 2. IF THE SOIL TEST DETERMINES THAT ADDITIONAL SOIL AMENDMENTS ARE REQUIRED, CONTRACTOR SHALL APPLY AN APPROPRIATE FERTILIZER IN CONFORMANCE WITH INSTRUCTIONS ON THE CONTAINER

1. ALL TREES AND SHRUBS SHALL BE MULCHED IMMEDIATELY FOLLOWING INSTALLATION WITH A MINIMUM 3" LAYER OF ACCEPTABLE MATERIAL.

OWNER IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL PLANT MATERIAL UPON COMPLETION OF LANDSCAPE INSTALLATION.

MITIGATION SPACING

2. ALL GROUND COVER SHALL BE MULCHED IMMEDIATELY FOLLOWING INSTALLATION WITH A MINIMUM 1" LAYER OF ACCEPTABLE MATERIAL. 3. ACCEPTABLE MULCHING MATERIAL INCLUDES PINE NEEDLES, SHREDDED BARK, AND WOOD CHIPS.

3. GUYING AND STAKING SHALL BE REMOVED NO LATER THAN 6 MONTHS AFTER INSTALLATION.

ALL PLANTS INCLUDING TREES, SHRUBS, AND GROUNDCOVER SHALL BE THOROUGHLY WATERED IMMEDIATELY FOLLOWING INSTALLATION. 2. ALL SEEDED AND SODDED AREAS SHALL BE THOROUGHLY WATERED IMMEDIATELY FOLLOWING INSTALLATION.

1. CONTRACTOR SHALL INSPECT PLANTS ON A WEEKLY BASIS; MAINTAIN AND WATER ALL SODDED AREAS AND PLANT MATERIALS; AND WEED, PRUNE, AND RE-MULCH PLANTING BEDS AS NECESSARY MAINTAIN HEALTHY GROWING CONDITIONS UNTIL LANDSCAPE INSTALLATION IS COMPLETE AND JURISDICTIONAL APPROVAL.

COMMENTS

PLANT ALTERATIONS AND SUBSTITUTIONS:

1. ANY CHANGES TO PLANT QUANTITY, PLANT SPECIES, PLANT SIZE, OR PLANT LOCATION IS UNACCEPTABLE WITHOUT SPECIFIC APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT.

possible. Tree protection zones must meet City of Pooler Code. Mulch should be added within the tree protection zone and should be shredded hardwood and not exceed 4 inches in depth; if possible, irrigation should also be installed within the tree protection zone. Trees should be fertilized twice annually for three years to lessen the stress effects of the construction and trees should also be treated to prevent the infestation of wood boring insects.

It is also recommended that all trees that remain on site should be pruned to eliminate any hazardous limbs and improve overall safety. Pruning should be conducted under the supervision of an ISA Certified Arborist and should adhere to the most recent ANSI A300 standards and ISA Best Management Practices for tree pruning. It is also recommended that no cutting or pruning of tree roots be conducted, however if there is a need for such a practice, an ISA Certified Arborist should direct and supervise the cutting or pruning. In addition to the pruning, all trees that remain on site should be inspected annually by an ISA Certified Arborist.

### **Inspector's information:**

Michael W. Pavlis, BS, MS ISA Certified Arborist, SO-5588A ISA Tree Risk Qualification

Ossabaw Consulting, LLC

Michael W. Pavlis

Thank you for your consideration,

\*Trees are a living organism and are undergoing constant change. Recommendations are based on current and ideal conditions. Conditions may change as time progresses. While we strive for complete diagnosis there some defects that are not visible and failure of in or of a tree may occur, unless otherwise stated by Ossabaw Consulting, LLC

### PLANTING SCHEDULE

QUANTITY

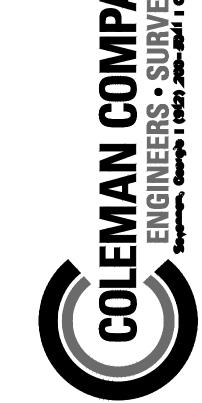
**BOTANICAL NAME** 

TREES							
AR	16	acer rubrum 'red sunset'	'RED SUNSET RED MAPLE	2" CALIPER		as shown	SINGLE LEADER, EVENLY BRANCHED
MG	5	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	6" CALIPER	5	as shown	SINGLE LEADER, EVENLY BRANCHED
NS	61	nyssa sylvatica 'david odom'	'AFTERBURNER' TUPELO	2" CALIPER		as shown	SINGLE LEADER, EVENLY BRANCHED
QL	9	QUERCUS LAURIFOLIA	LAUREL OAK	6" CALIPER	9	AS SHOWN	SINGLE LEADER, EVENLY BRANCHED
QM	41	QUERCUS MICHAUXII	SWAMP CHESTNUT OAK	2" CALIPER		as shown	SINGLE LEADER, EVENLY BRANCHED
QP	38	QUERCUS PHELLOS	WILLOW OAK	6" CALIPER	38	as shown	SINGLE LEADER, EVENLY BRANCHED
QS	32	QUERCUS SHUMARDII	Shumard Oak	2" CALIPER		AS SHOWN	SINGLE LEADER, EVENLY BRANCHED
QV	79	QUERCUS VIRGINIANA	LIVE OAK	6" CALIPER	79	as shown	SINGLE LEADER, EVENLY BRANCHED
D	61	TAXODIUM DISTICHUM 'MICKELSON'	'SHAWNEE BRAVE' BALDCYPRESS	2" CALIPER		as shown	SINGLE LEADER, EVENLY BRANCHED
UA	53	ulmus americana 'princeton'	'PRINCETON' AMERICAN ELM	2" CALIPER		AS SHOWN	SINGLE LEADER, EVENLY BRANCHED

COMMON NAME

SOD	70,100 SF	eremochloa ophiuroides	CENTIPEDE GRASS	-	-	2 YEAR CERTIFIED, SEASON PERMITTING
\$EED	687,500 SF	CONTRACTOR'S SE SEED MIX	www.hancockseed.com	-	-	4LB / 1,000 SF, SEASON PERMITTING
MULCH	AS NEEDED	PINESTRAW				







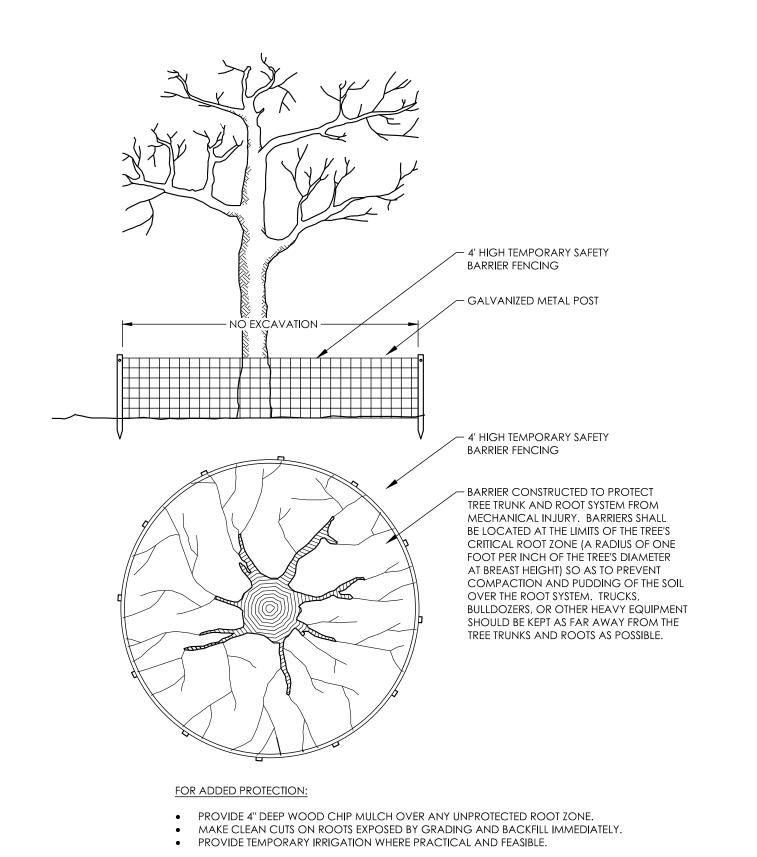
**REVISIONS:** 

**9Z** 

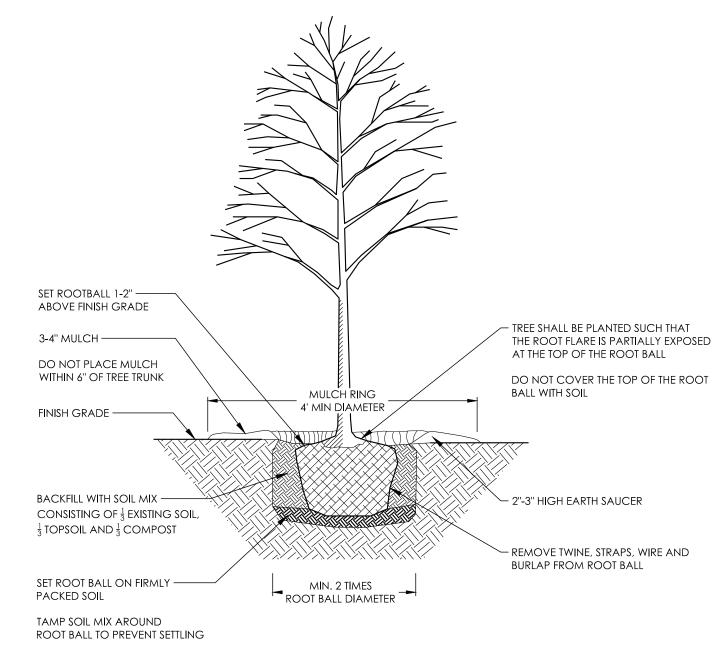
JOB NUMBER: 23-652.000 2025.09.04 DRAWN BY: CHECKED BY:

> AS NOTED LANDSCAPE

> > DETAILS



TREE PROTECTION DETAIL - CRITICAL ROOT ZONE
NOT TO SCALE



NOTE:

TREES SHALL BE PRUNED IMMEDIATELY AFTER PLANTING TO REMOVE DEAD, BROKEN, DISEASED, DYING OR RUBBING BRANCHES

2. CO-DOMINANT STEMS LESS THAN 4" IN DIAMETER AT THE FORK SHALL BE PRUNED OFF AND ONE MAIN STEM REMAIN

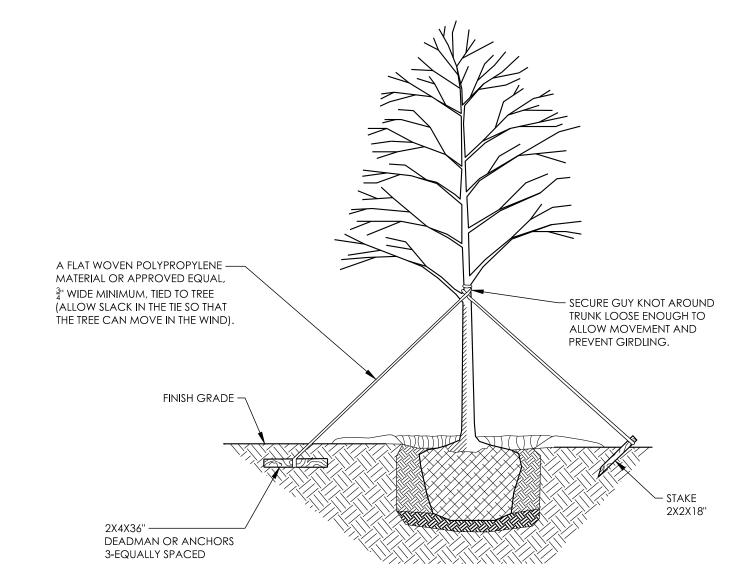
3. TREE TOPPING OR HEADING IS NOT PERMITTED AT ANY TIME.

 TREE TOPPING OR HEADING IS NOT PERMITTED AT ANY TIME.
 STAKING IS NOT REQUIRED, BUT IF INSTALLED IT SHALL BE REMOVED NO LATER THAN SIX MONTHS AFTER PLANTING

TREE PLANTING DETAIL

2/L3.1

NOT TO SCALE



NOTE:

SELECT DEADMAN, ANCHORS OR STAKES TO SECURE TREE
 STAKE TREES ONLY WHEN NECESSARY, STAKES TO BE REMOVED

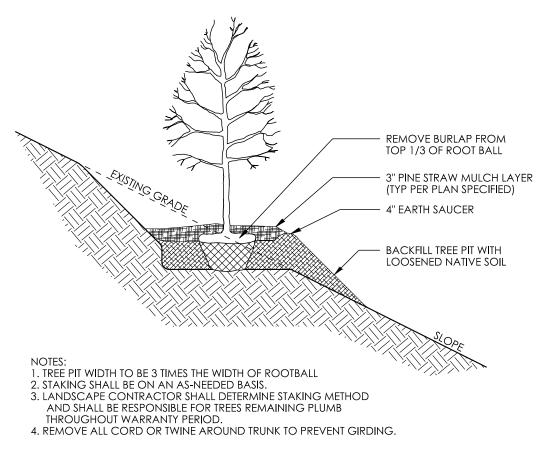
6 MONTHS AFTER PLANTING.
3. TREES LARGER THAN 2" CALIPER SHOULD BE STAKED BY THREE

STRAPS WHEN NECESSARY.

4. DO NOT USE STRAPS TO PULL TREE PLUMB.

3/L3.1 TREE STAKING DETAIL

NOT TO SCALE



'L3.1 TREE PLANTING ON SLOPE DETAIL

NOT TO SCALE

COLEMAN COMPA ENGINEERS - SURVEY

TOLONO IS PROFESSION OF A PE AND IS M. G. STERNO IS THE PROFESSION OF A PE AND IS THE PROFESSION

REVISIONS:

NOT

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SS CREEK
PHASE 3

PHA LOCATED IN POC

JOB NUMBER: 23-652.000
DATE: 2025.09.04
DRAWN BY: jmg
CHECKED BY: SMA
SCALE: AS NOTED

LANDSCAPE DETAILS

SHEET:

APE

DSC

13.

Know what's below.
Call before you dig.