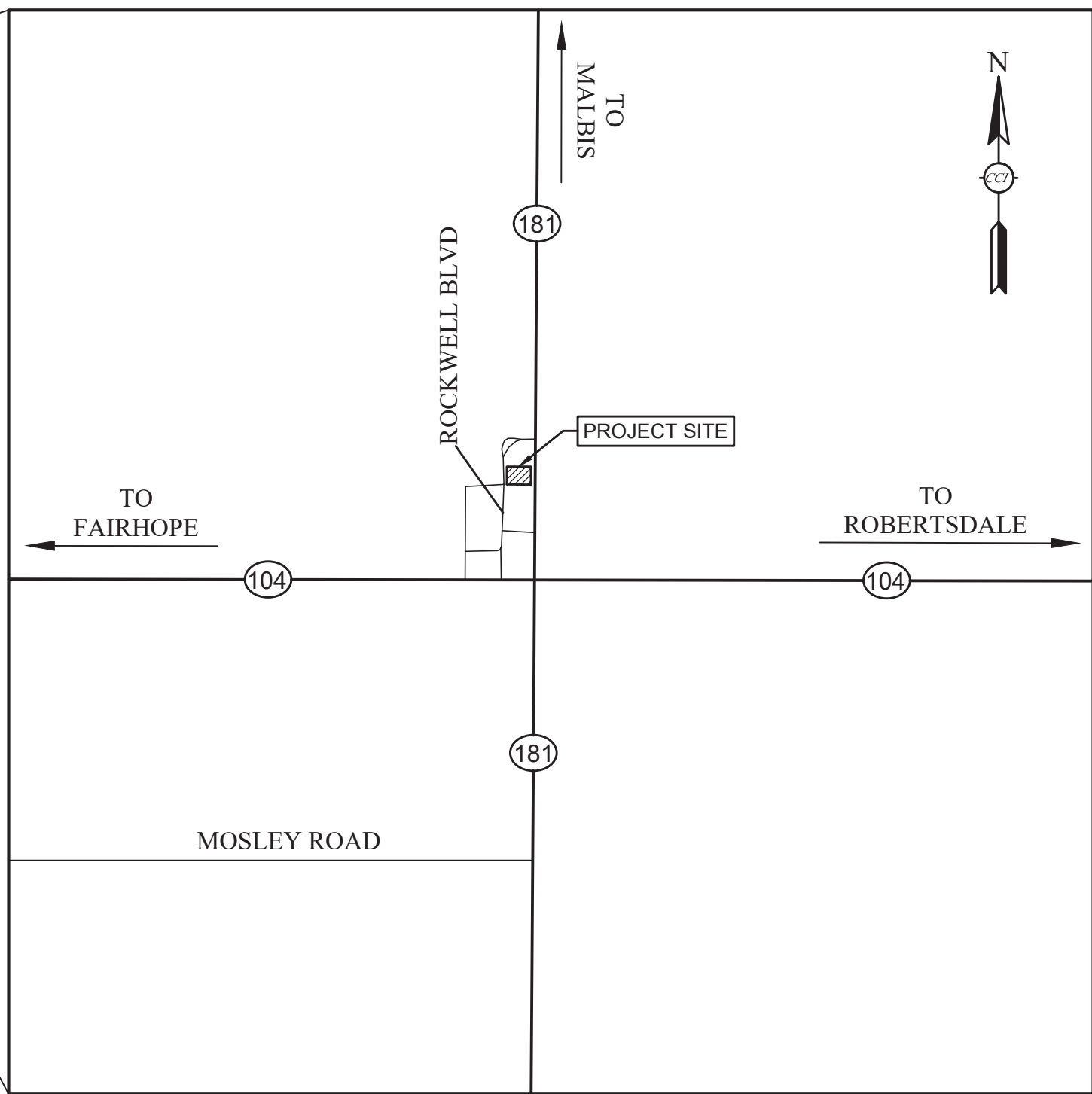
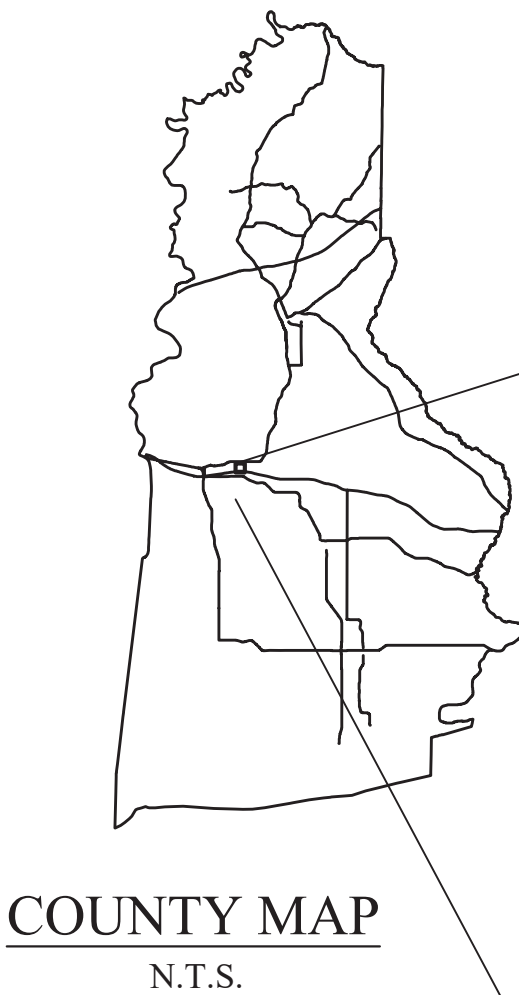


SITE WORK
CONSTRUCTION DOCUMENTS
FOR
A NEW EXPRESS OIL CHANGE
22179 STATE HIGHWAY 181
FAIRHOPE, ALABAMA



VICINITY MAP

ADDRESS:
22179 STATE HIGHWAY 181
FAIRHOPE, AL 36532
PPIN: 626313
PARCEL NO.: 05-46-02-03-0-000-004.244
ZONING DISTRICT: BG-2 GENERAL BUSINESS DISTRICT

LIST OF CONTACTS

OWNER
EXPRESS OIL CHANGE & TIRE ENGINEERS
Phone: (205) 397-1142
Contact: Justin Duck
1880 Southpark Dr
Birmingham, Alabama 35244

ARCHITECT
AHO ARCHITECTS, LLC
Phone: (205) 983-6000
Contact: April Cain
1855 Data Dr, Suite 150
Hoover, Alabama 35244

FIRE PROTECTION
CITY OF FAIRHOPE
Phone: (251) 990-0123
Contact: Damon Beck
555 South Section Street
Fairhope, Alabama 36532

POWER DISTRIBUTION
RIVIERA UTILITIES
Phone: (251) 943-5001
Contact: Wes Abrams
413 East Laurel Avenue
Foley, Alabama 36535

ALDOT PERMIT COORDINATOR
ALABAMA DEPARTMENT OF TRANSPORTATION
Phone: (251) 470-8206
Contact: Adam Campbell
1701 West I-65 Service Road North
Mobile, AL 36618

CIVIL ENGINEERING
CIVIL CONSULTANTS, INC.
Phone: (205) 655-1991
Contact: Nicholas Ostrye, P.E.
3528 Vann Road, Suite 105
Birmingham, Alabama 35235

LANDSCAPE ARCHITECT
PLOT STUDIO
Phone: (205) 478-5388
Contact: Matt Phillips, PLA
204 Main Street, Suite 125
Trussville, Alabama 35173

SANITARY SEWER PROVIDER
CORTE, CAVE MITCHELL I, LLC
Phone: (251) 666-2443
Contact: Frank Leatherwood III, PE
4830 Main Street, Suite G-212
Orange Beach, Alabama 36561

BUILDING INSPECTOR
CITY OF FAIRHOPE
Phone: (251) 990-0116
Contact: Eddie Tucker
161 North Section Street
Fairhope, Alabama 36533

SURVEYOR
POLY SURVEYING
Phone: (251) 666-2010
Contact: J. Brett Orrell, P.L.S.
5588 Jackson Road
Mobile, Alabama 36619

GEOTECHNICAL ENGINEER
TERRACON
Phone: (251) 443-5374
Contact: Benjamin G. Weinberg, P.E.
6215 Rangeline Road, Suite 115
Theodore, Alabama 36582

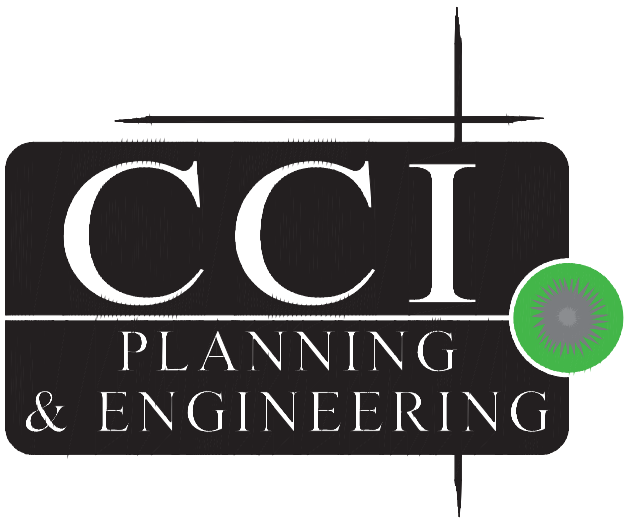
NATURAL GAS
FAIRHOPE PUBLIC UTILITIES
Phone: (251) 928-2136
Contact: Sid Grose
161 North Section Street
Fairhope, Alabama 36533

WATER PROVIDER
FAIRHOPE PUBLIC UTILITIES
Phone: (251) 928-2136
Contact: Jason Brown
161 North Section Street
Fairhope, Alabama 36533

COMMUNICATIONS
HIGHSTREAM FIBER, INC.
Phone: (251) 752-7138
Contact: Russ Reynolds

INDEX OF SHEETS

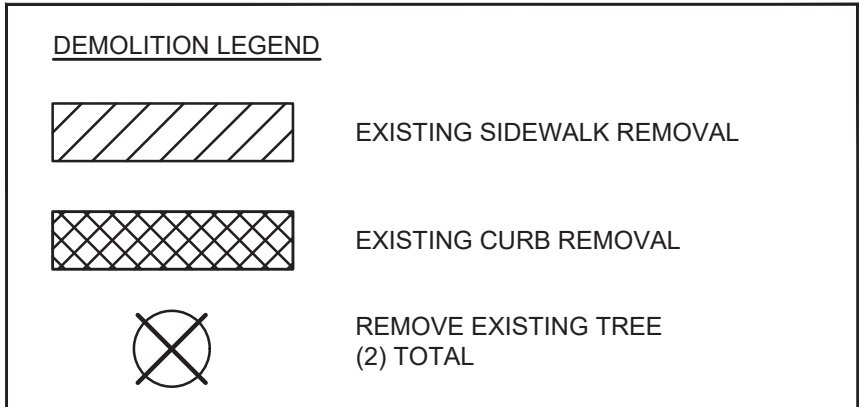
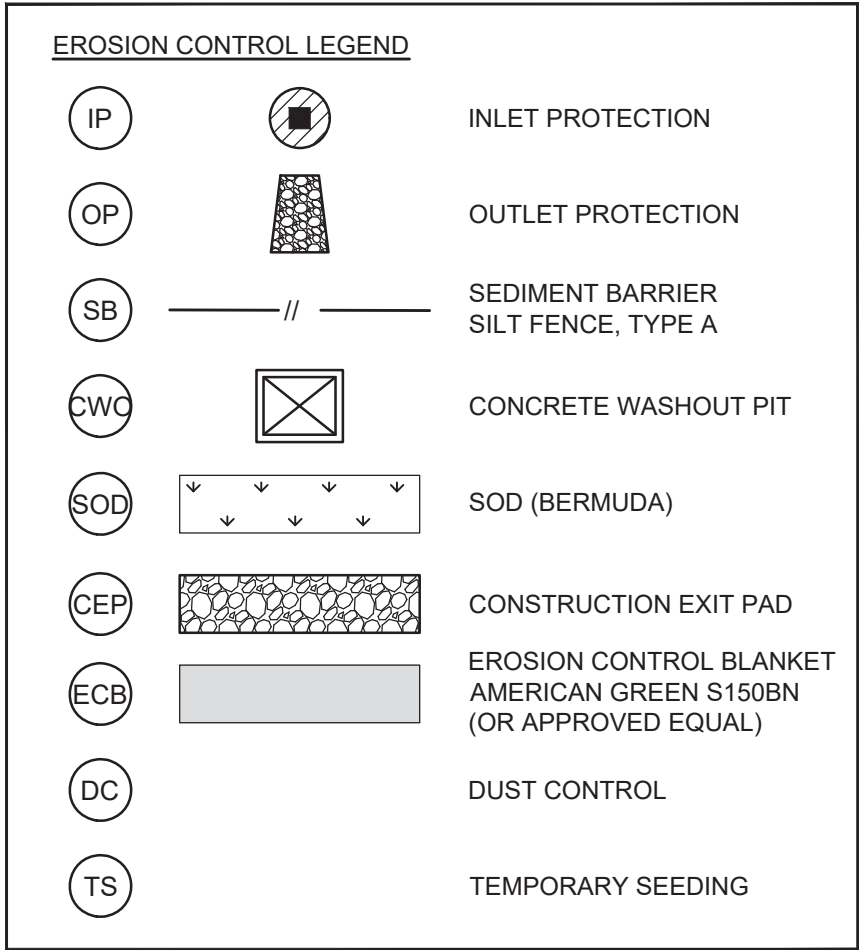
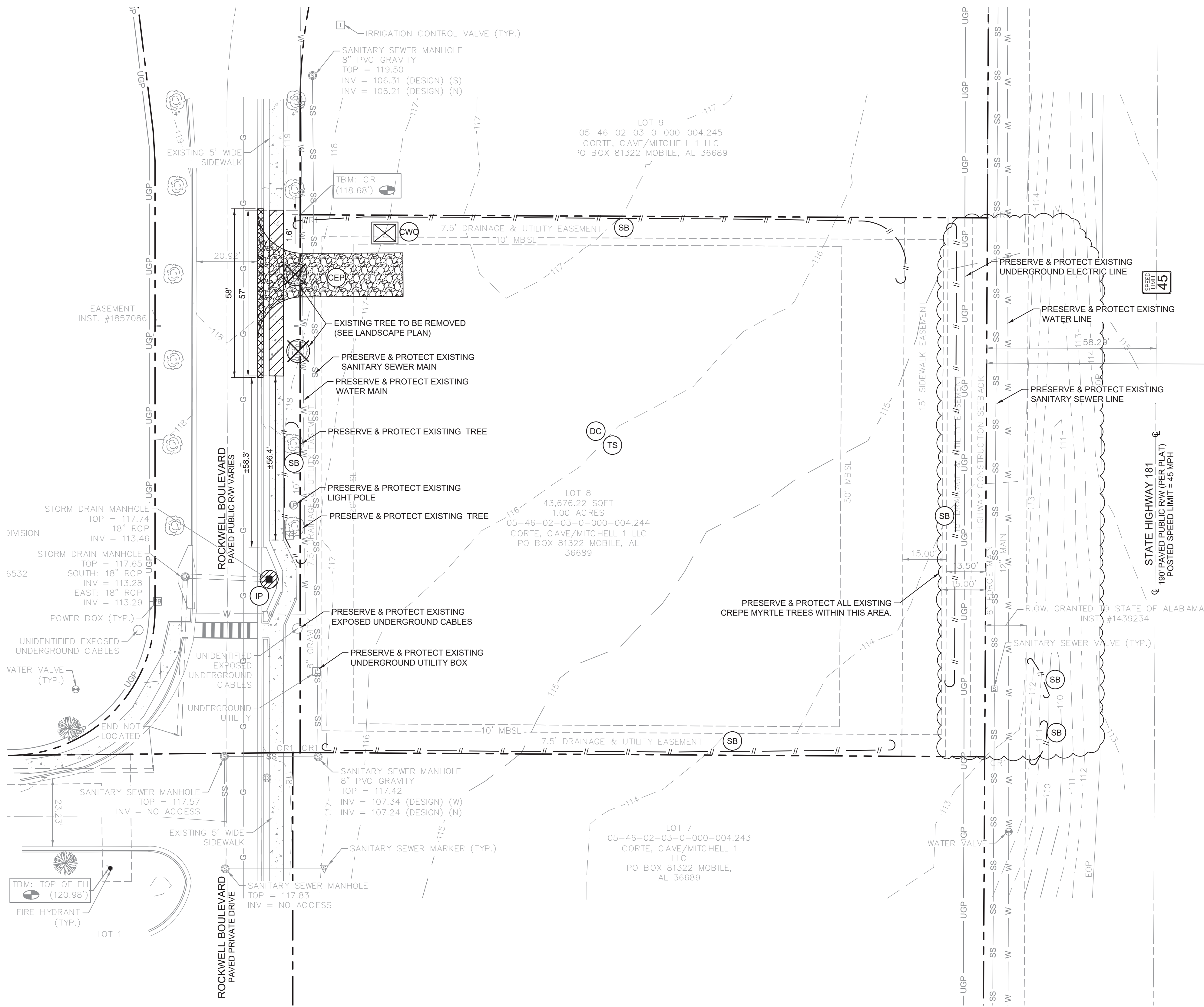
SHEET NO.	SHEET NAME
C0.0	COVER SHEET
C0.1	DEMOLITION AND INITIAL EROSION & SEDIMENT CONTROL PLAN
C1.0	SITE LAYOUT PLAN
C2.0	UTILITY PLAN
C3.0	GRADING PLAN
C3.1	DRAINAGE PLAN
C4.0	INTERMEDIATE - FINAL EROSION & SEDIMENT CONTROL PLAN
C5.0	CONSTRUCTION DETAILS & SECTIONS I
C5.1	CONSTRUCTION DETAILS & SECTIONS II
ATTACHMENTS	
ALTA/NSPS LAND TITLE SURVEY (2 SHEETS)	
LANDSCAPE PLAN (LA5.00)	
IRRIGATION PLAN (LA6.00 - LA6.02)	



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Suite 105
Birmingham, AL 35235
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02/12/2025

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SPECIAL NOTE
TRUCKS AND EQUIPMENT SHOULD UTILIZE WASHPAD OR CONSTRUCTION EXIT PAD WHILE SOILS ARE EXPOSED. ANY SEDIMENT TRACKED INTO ADJACENT BUSINESS AREAS OR ONTO ROCKWELL BLVD ARE TO BE CLEANED PRIOR TO END OF DAY.

INITIAL EROSION CONTROL SEQUENCE

1. SEE GENERAL EROSION & SEDIMENT CONTROL NOTES
2. INSTALL TEMPORARY SEDIMENT BARRIER (SILT FENCE), INLET PROTECTION, FILTER SOCK CHECK DAM, CONSTRUCTION EXIT PAD AND CONCRETE WASHOUT AREA.
3. INSPECT, MAINTAIN, MOVE AND REPAIR TEMPORARY SEDIMENT CONTROL DEVICES AS REQUIRED THROUGHOUT THE DURATION OF CONSTRUCTION.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ALL TEMPORARY SHORING & BRACING SYSTEMS USED DURING THE PERFORMANCE OF THIS WORK.
2. WORK SHALL BE PERFORMED BY SKILLED AND PROPERLY EQUIPPED PERSONNEL. PROMPTLY REPAIR DAMAGES TO EXISTING FACILITIES INTENDED TO REMAIN CAUSED BY DEMOLITION OPERATIONS.
3. REMOVE EXISTING IMPROVEMENTS AND VEGETATION TO THE EXTENT NECESSARY FOR THE PROPER INSTALLATION OF NEW CONSTRUCTION AND JUNCTION WITH EXISTING WORK. CUT BACK FINISHED SURFACES TO STRAIGHT, PLUMB, OR LEVEL LINES AS REQUIRED.
4. WHERE OPENINGS ARE CUT OVERSIZED OR AT IMPROPER LOCATIONS AS DETERMINED BY THE ENGINEER, REPLACE THE EXCESS REMOVED MATERIAL AS INSTRUCTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
5. COORDINATE DEMOLITION WITH OTHER TRADES TO ASSURE THE PROPER SEQUENCE, LIMITS, METHODS AND TIME OF PERFORMANCE. SCHEDULE WORK SO AS TO IMPOSE A MINIMUM HARDSHIP ON THE PERFORMANCE OF WORK OF OTHER TRADES.
6. WORK NOT MENTIONED TO BE REMOVED THAT INTERFERES WITH NEW CONSTRUCTION SHALL BE CUT AND REMOVED TO PROVIDE FOR PROPER INTERFACE WITH NEW CONSTRUCTION, OR PATCHING AND REPAIR, AS REQUIRED. COORDINATE WITH ARCHITECT AND/OR ENGINEER PRIOR TO REMOVAL.
7. ALL MATERIALS SHALL BE DISPOSED OF IN AN APPROPRIATE OFF-SITE LOCATION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR BOTH DEMOLITION WORK AND WASTE MATERIAL DISPOSAL.
8. CONTRACTOR IS RESPONSIBLE TO REPAIR DAMAGE TO THE CITY OF FAIRHOPE, ALDOT AND ADJACENT PROPERTY OWNER'S INFRASTRUCTURE TO THE SATISFACTION OF THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER TREATMENT AND HANDLING OF ANY HAZARDOUS MATERIALS INCLUDING BUT NOT LIMITED TO LEAD PAINT AND ASBESTOS.

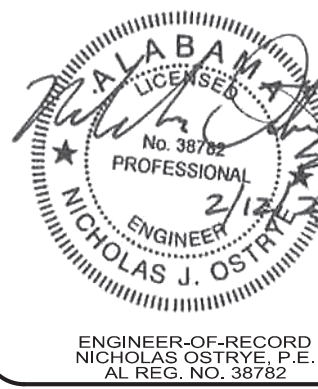
CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

GENERAL EROSION & SEDIMENT CONTROL NOTES

1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT OR SEDIMENT FROM LEAVING THE SITE. SILT OR SEDIMENT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. THE CONTRACTOR SHALL PREVENT THE ESCAPE OF SILT OR SEDIMENT FROM THE SITE BY INSTALLING EROSION CONTROL MEASURES IN ADDITION TO THOSE SHOWN ON PLANS AS NECESSARY AND CONDUCTING PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY TO PREVENT SILT OR SEDIMENT FROM ESCAPING THE SITE AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL AND PERFORM NECESSARY REPAIRS AND MAINTENANCE. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION AND SEDIMENT CONTROL DEVICES WHICH BECOME INEFFECTIVE. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL EROSION CONTROL DEVICES OR MEASURES AS DEEMED NECESSARY BY THE ENGINEER, OWNER OR REGULATORY AUTHORITIES TO COMPLY WITH CONSTRUCTION DOCUMENTS OR GOVERNING AUTHORITY.
3. CONTRACTOR SHALL REMOVE THE BUILD UP OF SILT AND SEDIMENT FROM BEHIND SILT FENCE, ROCK CHECK DAMS AND INLET FILTERS WHEN SILT AND SEDIMENT HAS REACHED 1/3 THE TOTAL HEIGHT OF THE EROSION AND SEDIMENT CONTROL DEVICE.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS AND PERMITS.
5. ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, VOLUME 1", PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
6. CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT ALL EROSION AND SEDIMENT DEVICES AND MEASURES IN ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS VOLUME 1", PUBLISHED BY THE PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
7. THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE OUTSIDE THE LIMITS OF CONSTRUCTION CAUSED BY THE CONTRACTOR OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED TO ITS ORIGINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
8. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE AS REQUIRED BY THE ENGINEER, PLANS, AND THE CITY OF FAIRHOPE. SILTATION CONTROL MEASURE SHALL BE INSPECTED AT LEAST MONTHLY AND FOLLOWING MEASURABLE PRECIPITATION EVENTS. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY AND NO FURTHER WORK WILL PROCEED UNTIL SAID DEFICIENCIES ARE CORRECTED TO THE CITY OF FAIRHOPE, OR ENGINEER'S APPROVAL.
9. IF SEDIMENT ESCAPES THE SITE IT SHALL BE RECOVERED, RETURNED TO THE SITE, SPREAD IN LANDSCAPE AREAS AND SEEDDED.



3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
www.ccoi-pe.com



FILE NO. 02/12/2025

PROJECT NO. EXP00011

FOR PERMIT

DESCRIPTION

NO. 0

REVISIONS

DATE 02/12/2025

NO.	DESCRIPTION	DATE	BY	CHECKED BY	NO.
0	FOR PERMIT	02/12/2025			

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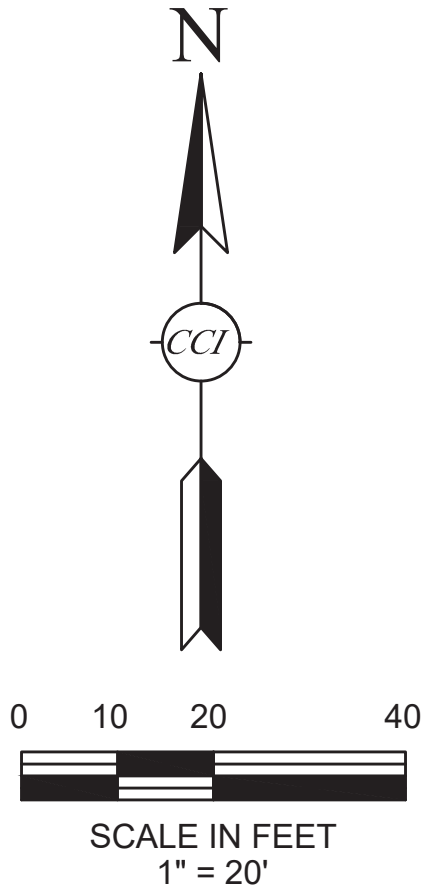
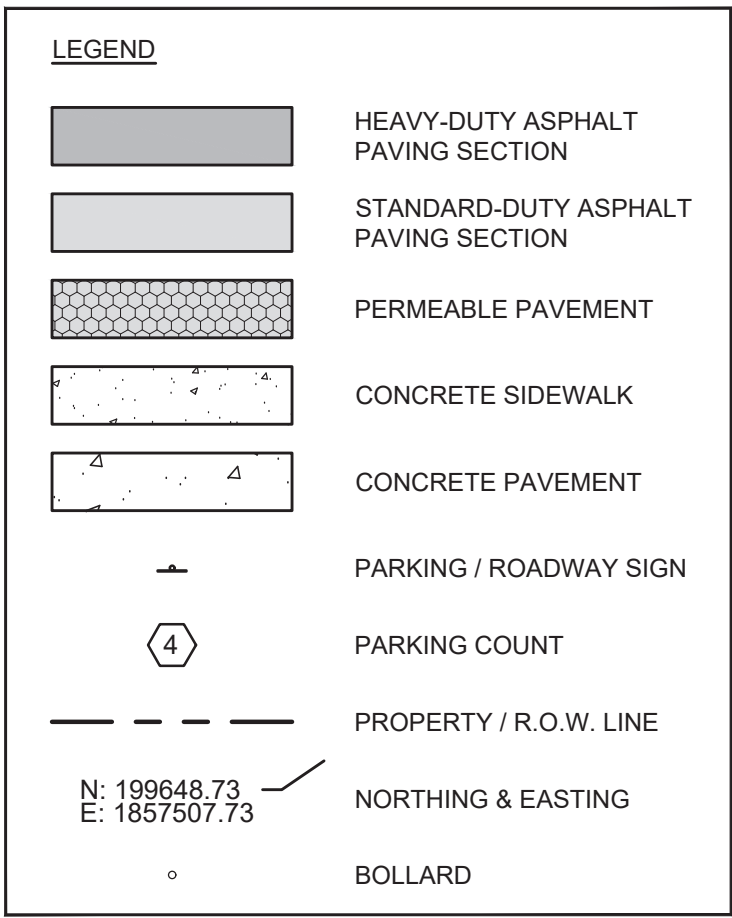
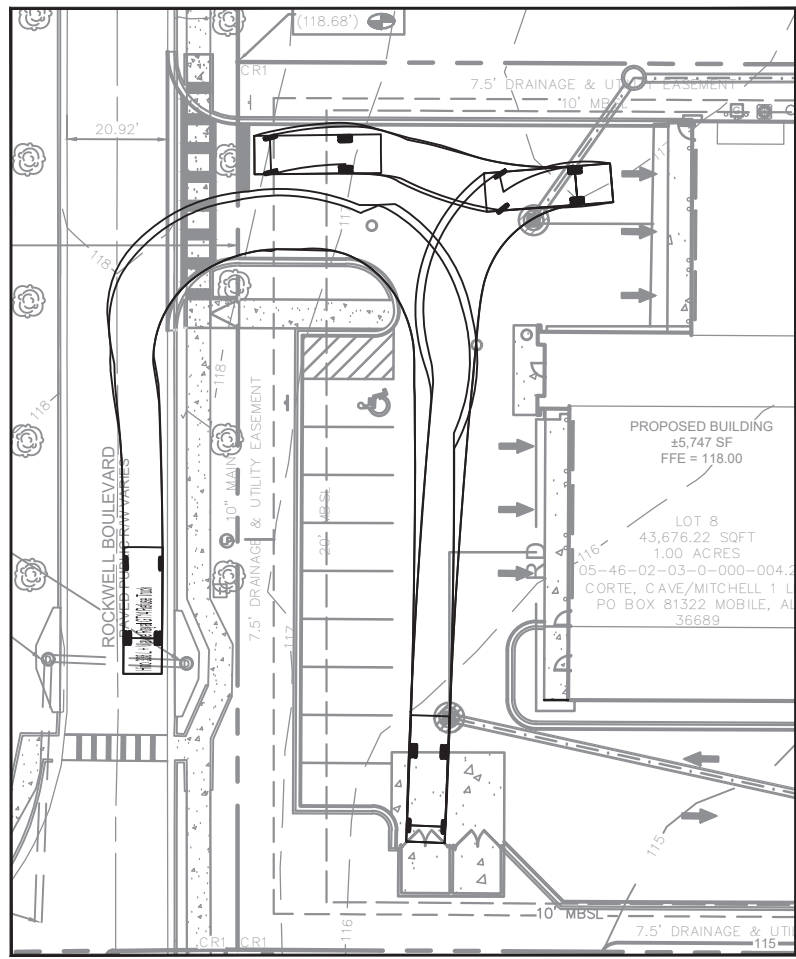
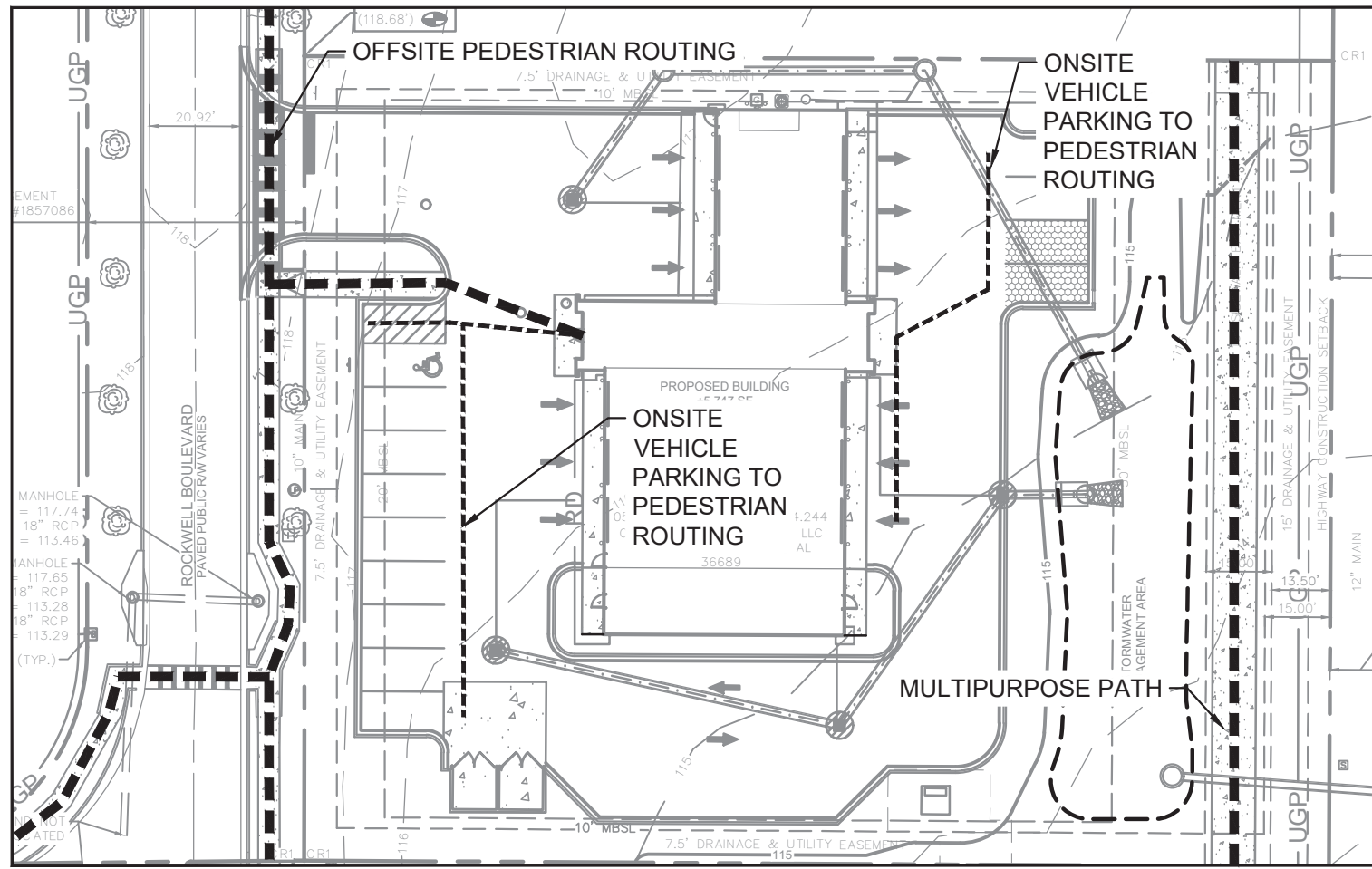
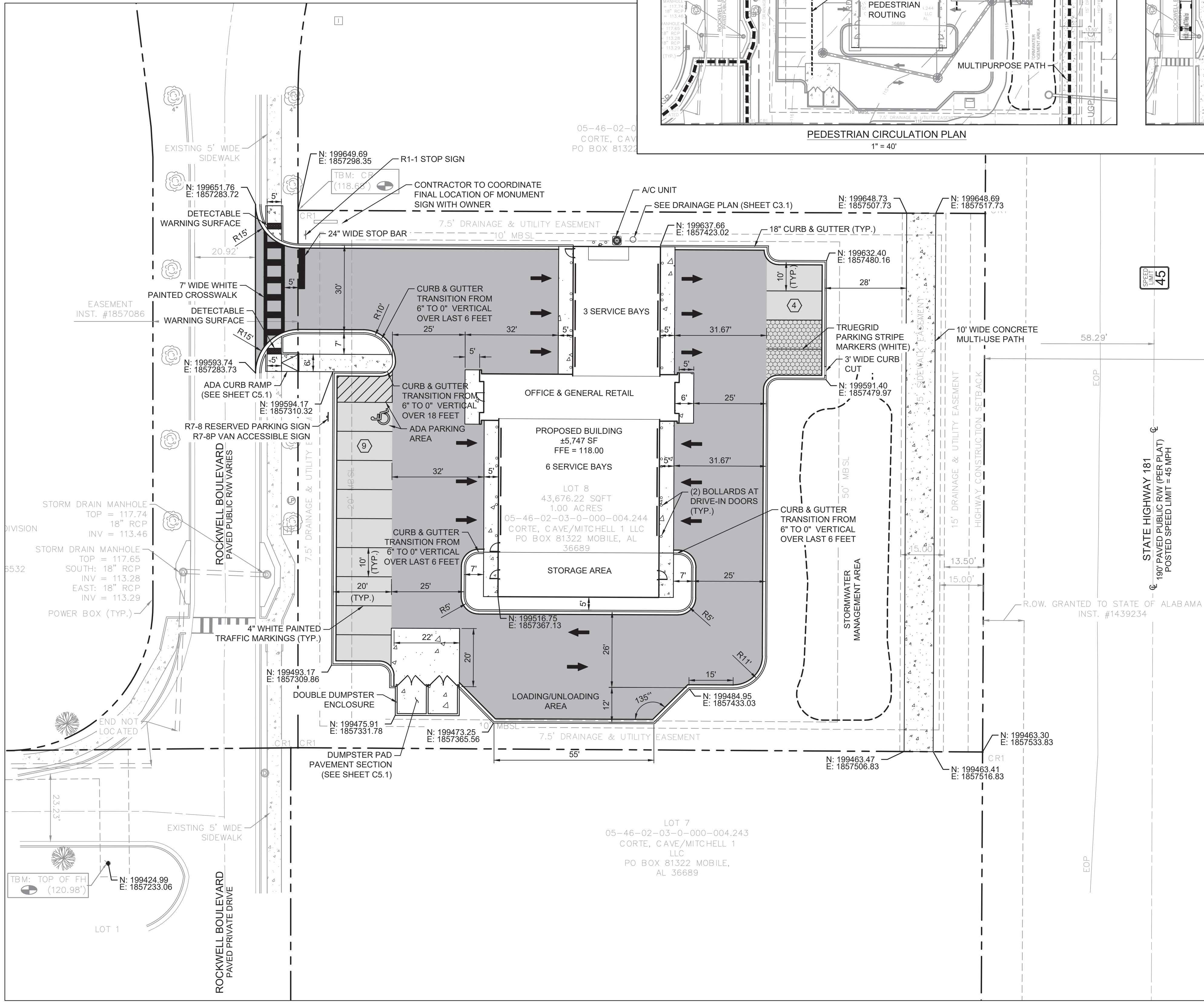
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SCALE: 1" = 20'

EXPRESS OIL CHANGE & TIRE ENGINEERS

FAIRHOPE, ALABAMA

EXPRESS OIL CHANGE



LAYOUT NOTES

1. SEE GENERAL NOTES.
2. COORDINATES SHOWN IN THESE PLANS ARE GIVEN IN FEET AND ARE BASED ON THE STATE PLANE COORDINATE SYSTEM.
3. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. COORDINATES AND DIMENSIONS TO HEADER CURB OR "TURN DOWN" CURB (IE. SIDEWALKS AROUND BUILDINGS) INDICATE EDGE OF PAVEMENT / FACE OF CURB.
4. COORDINATES FOR BUILDING CORNERS (OUTSIDE FACE) ARE PROVIDED FOR LOCATING BUILDING ON SITE. REFERENCE BUILDING PLANS FOR REMAINDER OF BUILDING LAYOUT.
5. COORDINATES SHOWN IN PARKING AREA ARE TO BACK OF CURB.
5. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR FINAL BUILDING DIMENSIONS AND LOCATIONS OF ALL ENTRANCES, STEPS, PAOS, ETC.
6. ALL RADII SHOWN IN PARKING AREAS ARE 4.0 FT (FACE OF CURB), UNLESS OTHERWISE NOTED.
7. TRAFFIC MARKING PAINT FOR PARKING STRIPES SHALL BE LATEX WATERBORNE EMULSION, LEAD AND CHROMATE FREE.

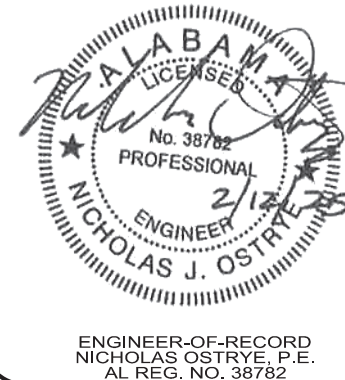
GENERAL NOTES

1. ALL WORK SHOWN SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS FOR THIS PROJECT AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SITE. CONTRACTOR WILL ONLY PERFORM CONSTRUCTION ACTIVITIES BASED ON PLANS PROPERLY ISSUED FOR CONSTRUCTION PURPOSES.
2. CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK ARE SECURED PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND BENCHMARKS. ALL PROPERTY PINS OR BENCHMARKS ELIMINATED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR'S LICENSED SURVEYOR AT NO EXPENSE TO OWNER.
4. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
5. CONTRACTOR SHALL FIELD VERIFY (REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS) ACTUAL (FINAL) LOCATION OF ALL UTILITY ENTRANCES, TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
6. CONTRACTOR SHALL COORDINATE THE INSTALLATION, ADJUSTMENT OR RELOCATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (GAS, WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS) SHALL BE IN PLACE PRIOR TO PLACEMENT OF BASE COURSE MATERIAL.
7. ALTA/NSPS LAND TITLE SURVEY WAS PREPARED BY POLY SURVEYING (251) 666-2010. CIVIL CONSULTANTS, INC. WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY.
8. REFER TO LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DIMENSIONS AND LOCATIONS OF IRRIGATION LINES & METERS, ETC.
9. THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
10. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY AND BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PROTECTIVE DEVICES AND FOR THE IMPLEMENTATION OF ALL SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO THE PROTECTION OF LIFE, PROPERTY, AND SITE IMPROVEMENTS, THE PROTECTION OF EXISTING UTILITY LINES AND STRUCTURES; AND THE PROVISION AND COORDINATION OF ALL TEMPORARY TRAFFIC CONTROL EFFORTS AND MEASURES.
12. JOB SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SMOOTH TRANSITION BETWEEN ALL NEW CONSTRUCTION AND ALL EXISTING CONDITIONS. ALL DRIVEWAY TRANSITION GRADES, CONSTRUCTION MATERIALS, AND FINISHES, ARE SUBJECT TO APPROVAL BY THE ENGINEER.
14. DO NOT SCALE CRITICAL DIMENSIONS FROM THIS DRAWING. CONTACT ENGINEER FOR SPECIFIC CLARIFICATIONS NEEDED.
15. CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION SPECIFICATIONS IN ALL CONCRETE AND ASPHALT PAVEMENT AREA.
16. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SITE CONSTRUCTION DRAWINGS OR SPECIFICATIONS AND EXISTING STRUCTURES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH CONSTRUCTION OF ANY AREA WHERE A CONFLICT HAS BEEN DISCOVERED UNTIL SUCH TIME AS THE CONFLICT HAS BEEN CLEARLY RESOLVED.
17. CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING PUBLIC INFRASTRUCTURE TO THE SATISFACTION OF THE CITY OF FAIRHOPE.

CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

SITE INFORMATION

ZONING: B-2 GENERAL BUSINESS
ADDRESS: 22179 STATE HIGHWAY 181
FAIRHOPE, AL 36532
LOT SIZE: ± 0.99 AC
PROPOSED BUILDING HEIGHT: 24'
TOTAL GROSS FLOOR AREA: 7,070 SF
MAIN LEVEL: 5,693 SF
PIT LEVEL: 1,377 SF
PROPOSED BUILDING COVERAGE: ± 5,747 SF
PERCENTAGE OF LOT COVERED BY BUILDING: ± 13%
PERCENTAGE OF IMPERVIOUS AREA: 47.4%
(EXCLUDING BUILDING)
PERCENTAGE OF PROPOSED LANDSCAPING: 38.6%
REQUIRED PARKING:
AUTOMOTIVE SERVICE STATIONS
= 2 SPACES MIN. + 1 SPACE PER BAY (9) = 11 SPACES
PROVIDED PARKING = 12 STANDARD SPACES
1 ADA VAN SPACE
13 TOTAL SPACES
PERCENTAGE OF PROPOSED GREEN SPACE: 38.6%
BUILDING SETBACK:
HIGHWAY = 50' FRONT = 20'



SITE LAYOUT PLAN

EXPRESS OIL CHANGE
FAIRHOPE, ALABAMA
FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

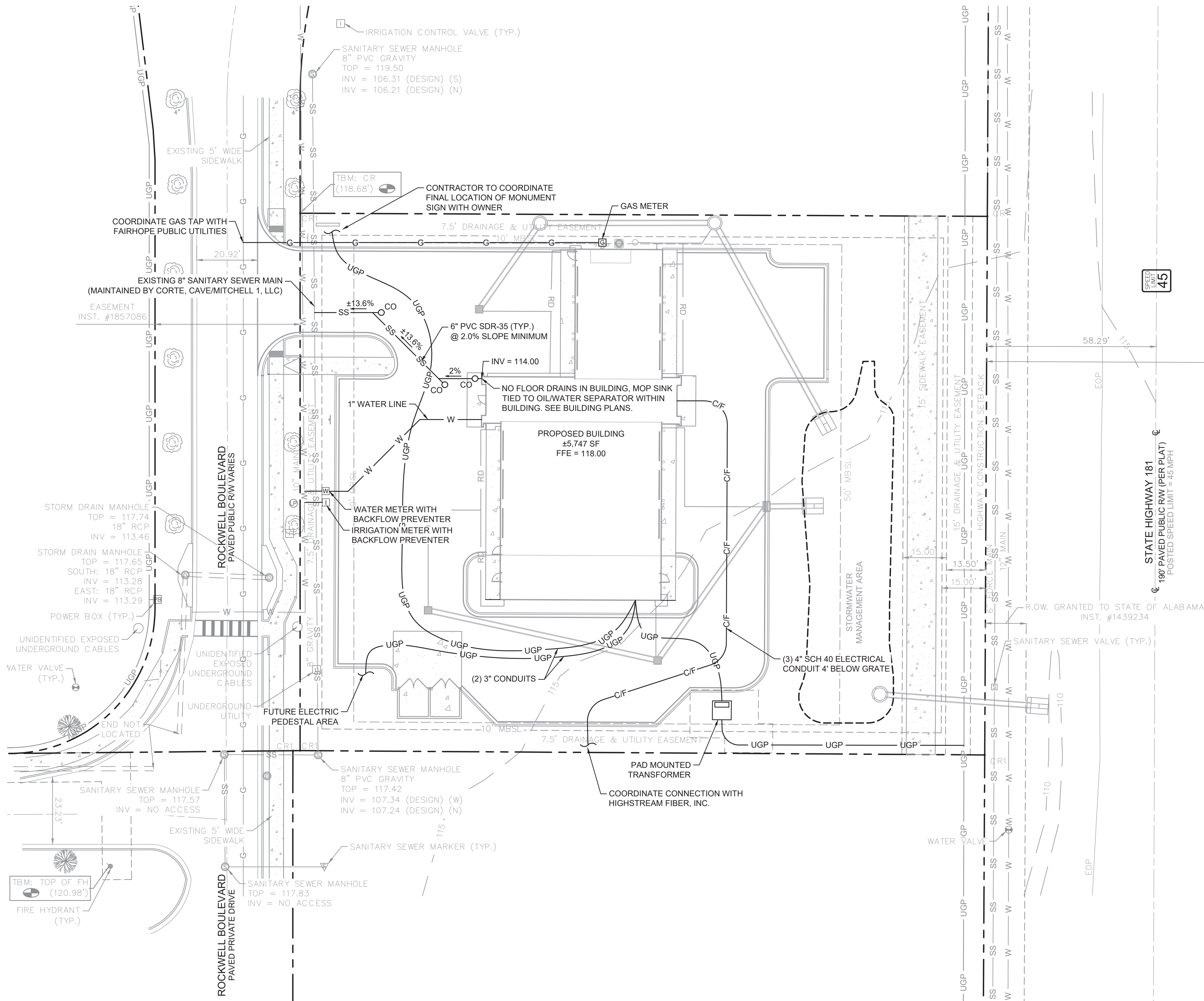
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4	REVISED	NJO	02/12/2025	
5	REVISED	NJO	02/12/2025	
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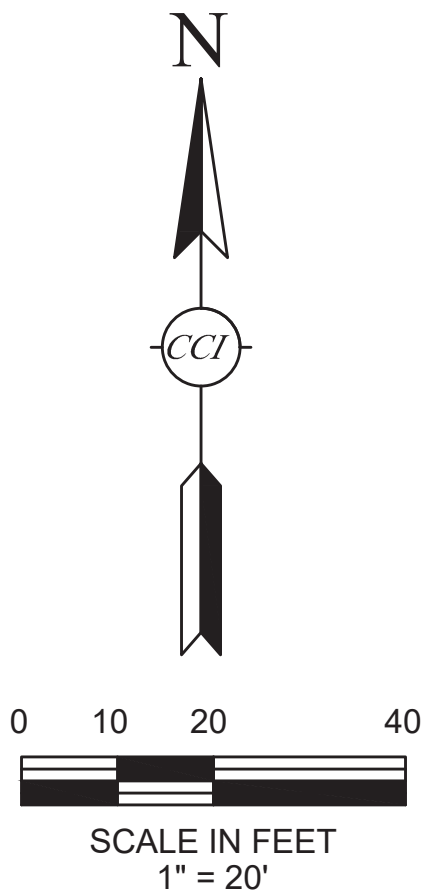
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Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
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LEGEND	
	SANITARY SEWER LINE
	SANITARY CLEANOUT
	SANITARY LATERAL SLOPE
	DOMESTIC WATER SERVICE PIPE
	WATER METER WITH BACKFLOW PREVENTER
	IRRIGATION METER
	GAS METER
	NATURAL GAS LINE
	UNDERGROUND COMMUNICATION & FIBER OPTIC CABLE
	UNDERGROUND ELECTRIC
	PAD MOUNTED TRANSFORMER



GENERAL UTILITY NOTES:

- CONTRACTOR SHALL FIELD VERIFY (REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS) ACTUAL (FINAL) LOCATION OF ALL UTILITY ENTRANCES. TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC WATER SERVICE, ELECTRICAL, TELEPHONE, AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
- PRIOR TO INSTALLING ANY UTILITIES OR STORM DRAINAGE, THE CONTRACTOR SHALL EVALUATE ALL UTILITY CROSSING ELEVATIONS IN ORDER TO DETERMINE THE CROSSING REQUIREMENTS. UTILITIES THAT REQUIRE LOWERING IN ORDER TO MAINTAIN MINIMUM COVERING REQUIREMENTS SHALL BE INSTALLED PRIOR TO THE SHALLOWER UTILITY BEING INSTALLED. CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION COSTS ASSOCIATED WITH ANY AND ALL REQUIRED LOWERINGS IN THE PRICE FOR THE RESPECTIVE UTILITY.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF FAIRHOPE SPECIFICATIONS.

WATER NOTES:

- REFERENCE GENERAL NOTES, SHEET C1.0.
- ALL DOMESTIC LEADS TO BUILDING SHALL END 5 FT. OUTSIDE THE FACE OF BUILDING WALL, UNLESS NOTED, AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END (FOR OTHERS TO REMOVE AND EXTEND AS NECESSARY).
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY INSPECTIONS WITH THE GOVERNING AUTHORITIES PRIOR TO COVERING TRENCHES DURING INSTALLATION.
- SITE CONTRACTOR SHALL COORDINATE TAPS WITH FAIRHOPE PUBLIC UTILITIES.
- PIPE SIZES 3" AND SMALLER SHALL BE TYPE-K COPPER. FITTINGS SHALL BE BRONZE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FAIRHOPE PUBLIC UTILITIES.

SANITARY SEWER NOTES:

- REFERENCE GENERAL NOTES AND ARCHITECTURAL/PLUMBING PLANS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH FAIRHOPE PUBLIC UTILITIES REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL NOTIFY CORTE, CAVE/MITCHELL 1.LLC, THE OWNER OF THE PRIVATE SANITARY SEWER MAIN, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING SEWER CONSTRUCTION.
- ALL CLEANOUTS SHALL BE FLUSH WITH PROPOSED GRADE ELEVATIONS.
- POTABLE WATER PIPING SHALL BE LAID AT LEAST FIVE FEET HORIZONTALLY FROM SANITARY SEWER LINES. THE DISTANCE SHALL BE MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE. WHERE CROSSINGS ARE NECESSARY, CASE ONE OF THE PIPES WITH A CONTINUOUS PIPE OF SUFFICIENT LENGTH, LOCATED SUCH THAT A MINIMUM FIVE (5)-FOOT SEPARATION EXISTS BETWEEN EACH END OF THE CASING PIPE AND THE UNCASED PIPE. POTABLE WATER PIPING CROSSING SANITARY SEWER LINES SHALL BE LAID TO PROVIDE MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE POTABLE WATER PIPING AND THE OUTSIDE OF THE SEWER LINE. THE 18 INCH SEPARATION SHALL APPLY WHETHER THE POTABLE WATER PIPING IS OVER OR UNDER THE SEWER LINE. LAY POTABLE WATER PIPING AT CROSSINGS OF SEWER LINES SO A FULL LENGTH OF PIPE IS CENTERED ON THE SEWER LINE WHENEVER POSSIBLE.
- SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH FAIRHOPE PUBLIC UTILITIES REQUIREMENTS.

POWER NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL UNDERGROUND CONDUIT ASSOCIATED WITH POWER DISTRIBUTION AND SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING TRANSFORMER PAD TO THE POWER COMPANY'S STANDARD DIMENSIONS, AND ENSURING THAT THE PROPER CLEARANCES ARE PROVIDED ON ALL SIDES AND ABOVE THE TRANSFORMER.
- ALL BENDS FOR POWER AND COMMUNICATIONS CONDUITS (HORIZONTAL AND VERTICAL) SHALL BE LONG SWEEPING ELLS.
- POWER CONDUITS SHALL BE INSTALLED WITH A MINIMUM OF 4 FEET OF COVER FROM FINISHED GRADE TO TOP OF THE CONDUIT.
- ALL CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- THE SITE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PULLING ALL SECONDARY CONDUCTORS AS WELL AS MAKING THE ASSOCIATED SECONDARY TERMINATIONS WITHIN THE TRANSFORMER. UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO ELECTRICAL PLANS FOR SECONDARY SERVICE ROUTING AND CONNECTIONS.

NATURAL GAS NOTES

- ALL ONSITE NATURAL GAS MAINS AND SERVICE LINES UP TO AND INCLUDING THE GAS METER SET SHALL BE DESIGNED AND INSTALLED BY FAIRHOPE PUBLIC UTILITIES.
- CONTRACTOR SHALL STAKE CENTERLINE OF GAS MAINS OR GAS SERVICE LINE FOR GAS COMPANY CONTRACTOR.

CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



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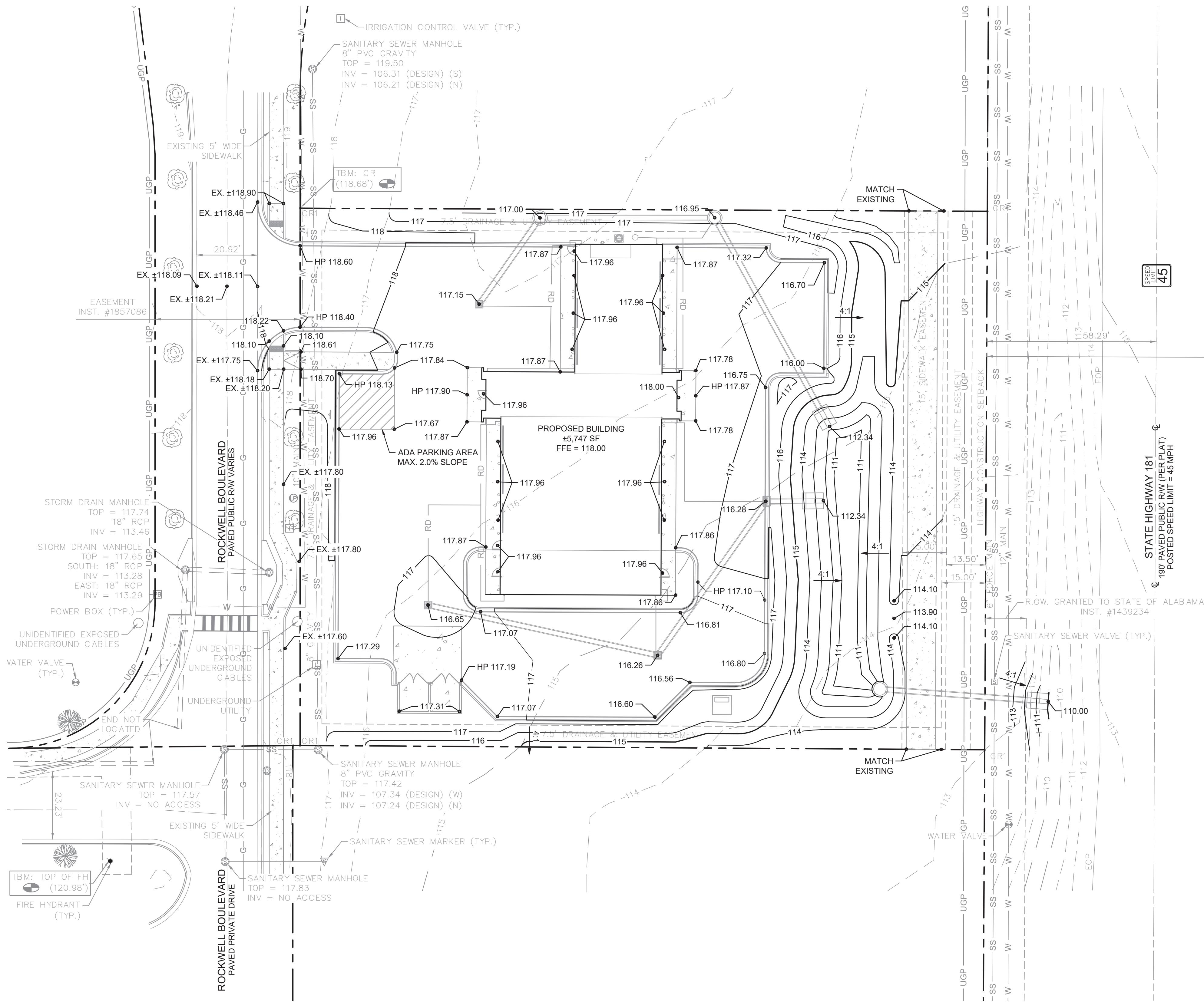
UTILITY PLAN

EXPRESS OIL CHANGE
FOR
FAIRHOPE, ALABAMA

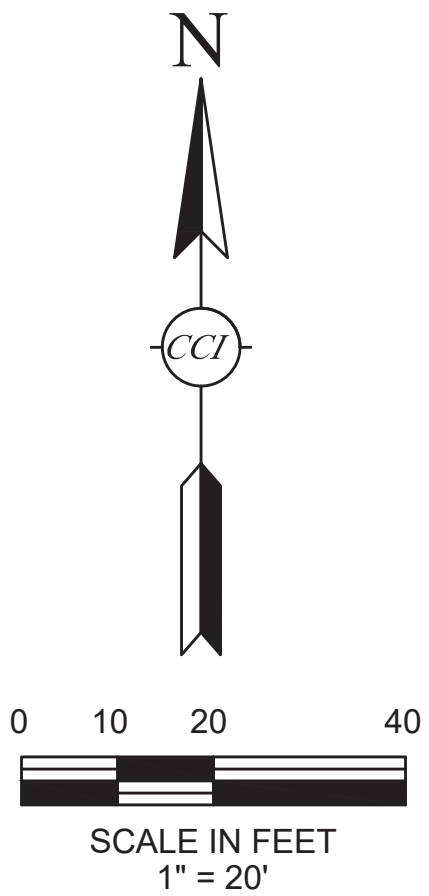
EXPRESS OIL CHANGE & TIRE ENGINEERS

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DRAWING NO.
C2.0



LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SPOT ELEVATION
	HIGH POINT
	EXISTING
	SLOPE IDENTIFIER



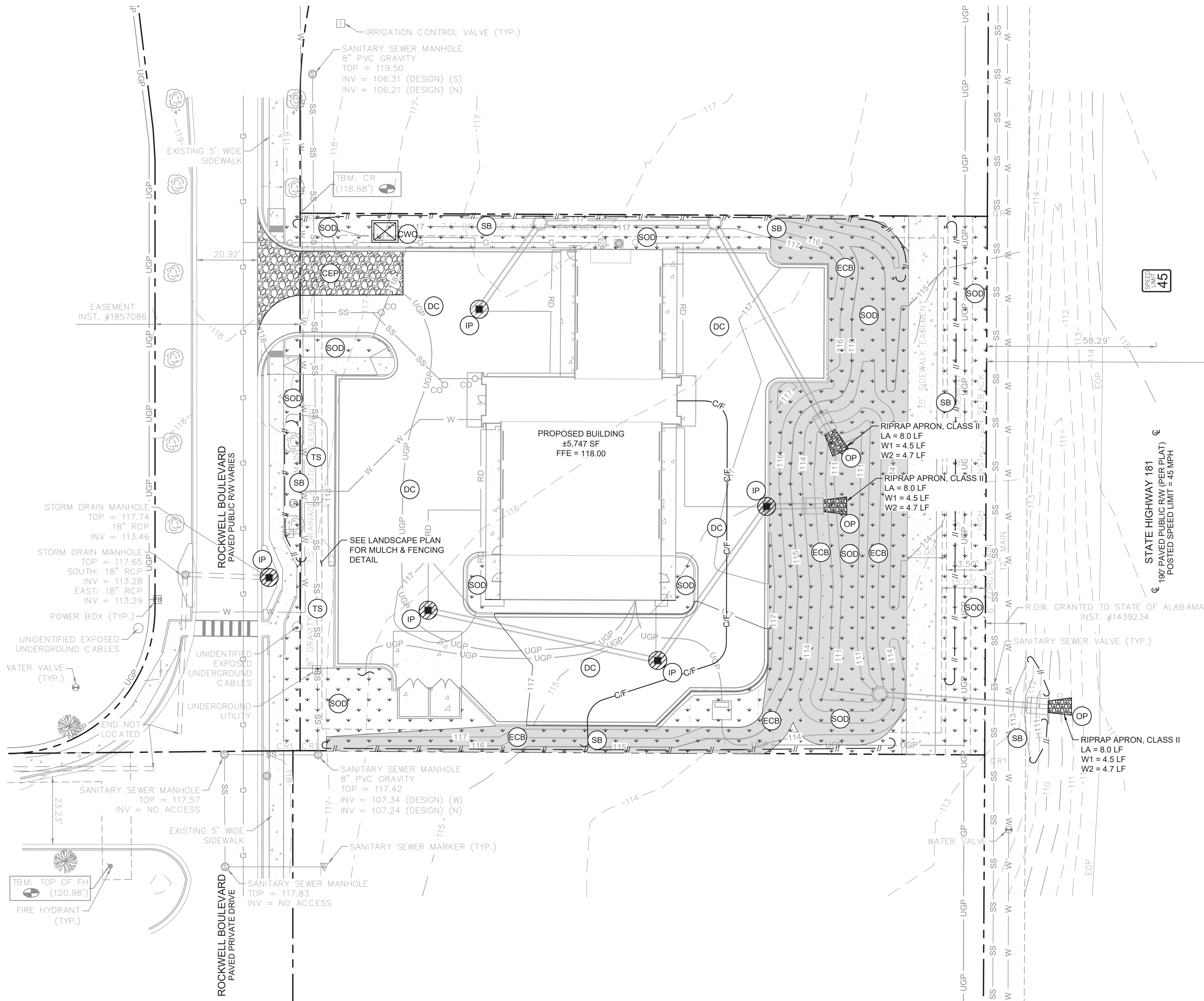
GRADING AND EARTHWORK NOTES

- REFERENCE GENERAL NOTES. (SEE SHEET C1.0)
- EARTHWORK SHALL BE PERFORMED ON AN UNCLASSIFIED BASIS.
- ALL PROPOSED SPOT ELEVATIONS SHOWN ADJACENT TO CURB ARE TO EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.
- GRADES SHOWN ARE FINISH GRADES. FOR SUBGRADE ELEVATIONS IN PAVED AREAS, REFERENCE SECTIONS AND DETAILS.
- THE LOCATION AND ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, SHOULD NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND UTILITIES PRIOR TO CONSTRUCTION. ANY DEVIATIONS FROM PLAN INFORMATION SHOULD BE DISCUSSED WITH ENGINEER AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
- THE SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- THE SUBGRADE PREPARATION SHOULD CONSIST OF STRIPPING APPROXIMATELY 6 INCHES OF TOPSOIL, VEGETATION, ROOTMAT, AND SOFT OR YIELDING MATERIALS FROM THE 10-FOOT EXPANDED PAVEMENT LIMITS, AND 5 FEET BEYOND THE TOE OF STRUCTURAL FILLS. DEEPER TOPSOIL OR ORGANIC LADEN SOILS MAY BE PRESENT IN WET, LOW-LYING, AND POORLY DRAINED AREAS. IN WOODED AREAS, THE ROOT BALLS MAY EXTEND AS DEEP AS ABOUT 2 FEET AND WILL REQUIRE ADDITIONAL LOCALIZED STRIPPING DEPTH TO COMPLETELY REMOVE THE ORGANICS.
- FILL SLOPES SHALL BE OVERFILLED AND THEN CUT BACK TO REQUIRED GEOMETRY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE FINISHED GRADING INCLUDING PLACEMENT OF SOILS AS NECESSARY TO ACHIEVE THE FINISHED GRADES INDICATED ON THE GRADING PLANS. ALL SURFACES SHALL BE SMOOTH WITH PROPER TRANSITIONS BETWEEN GRADIENTS. ALL FINISHED TOPSOIL ELEVATIONS SHALL BE A MINIMUM OF 1" BELOW THE FINISHED ELEVATION OF ADJACENT WALKS AND BACK OF CURB UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CAREFULLY ESTABLISH PROPER FINISHED GRADE ELEVATIONS IN THE FIELD SO AS TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND EXTERIOR MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT AND ANY OTHER MOISTURE SENSITIVE AREAS.
- THE EXPANDED LIMITS OF THE PROPOSED CONSTRUCTION AREAS SHOULD BE WELL DEFINED, INCLUDING THE LIMITS OF THE FILL ZONES FOR BUILDINGS, PAVEMENTS, AND SLOPES, ETC., AT THE TIME OF FILL PLACEMENT. GRADE CONTROLS SHOULD BE MAINTAINED THROUGHOUT THE FILLING OPERATIONS.
- AT THE END OF EACH WORK DAY, ALL FILL AREAS SHOULD BE GRADED TO FACILITATE DRAINAGE OF ANY PRECIPITATION AND THE SURFACE SHOULD BE SEALED BY USE OF A SMOOTH-DRUM ROLLER TO LIMIT INFILTRATION OF SURFACE WATER. DURING PLACEMENT AND COMPACTION OF NEW FILL AT THE BEGINNING OF EACH WORKDAY, THE CONTRACTOR MAY NEED TO SCARIFY EXISTING SUBGRADES TO A DEPTH ON THE ORDER OF 4 INCHES SO THAT A WEAK PLANE WILL NOT BE FORMED BETWEEN THE NEW FILL AND THE EXISTING SUBGRADE SOILS.
- POSITIVE SITE DRAINAGE SHOULD BE MAINTAINED DURING EARTHWORK OPERATIONS IN AN EFFORT TO MAINTAIN THE INTEGRITY OF THE SITE SURFACE SOIL. WHEN WET, THE SITE SOILS MAY DEGRADE QUICKLY WITH DISTURBANCE FROM CONTRACTOR OPERATIONS AND WILL BE EXTREMELY DIFFICULT TO STABILIZE FOR FILL PLACEMENT. CONSEQUENTLY, THE CONTRACTOR SHOULD BE PREPARED TO IMPLEMENT AGGRESSIVE MECHANICAL OR CHEMICAL DRYING, DEPENDING UPON THE ACTUAL SITE CONDITIONS. IF POSSIBLE MASS GRADING FOR THE PROJECT SHOULD BE PERFORMED DURING THE DRIER SUMMER MONTHS TO HELP FACILITATE FAVORABLE MOISTURE CONDITIONS FOR THE SITE SOILS. IF WATER MUST BE ADDED TO RAISE THE MOISTURE CONTENT OF THE SOIL, IT SHOULD BE UNIFORMITY APPLIED AND THOROUGHLY MIXED INTO THE SOIL.
- PRIOR TO FILL PLACEMENT OR OTHER CONSTRUCTION ON SUBGRADES, THE SUBGRADES SHOULD BE EVALUATED BY AN ON-SITE GEOTECHNICAL REPRESENTATIVE. THE EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOFROLLED WITH A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR SIMILAR CONSTRUCTION EQUIPMENT WEIGHING A MINIMUM OF 40 TONS. PROOFROLLING SHOULD BE TRAVERSED IN TWO PERPENDICULAR DIRECTIONS WITH OVERLAPPING PASSES OF THE VEHICLE UNDER THE OBSERVATION OF AN ON-SITE GEOTECHNICAL REPRESENTATIVE. THIS PROCEDURE IS INTENDED TO ASSIST IN IDENTIFYING ANY LOCALIZED YIELDING MATERIALS.
- WHERE PROOFROLLING IDENTIFIES AREAS THAT ARE YIELDING OR PUMPING SUBGRADE THOSE AREAS SHOULD BE REPAIRED PRIOR TO THE PLACEMENT OF ANY SUBSEQUENT STRUCTURAL FILL OR OTHER CONSTRUCTION MATERIALS. METHODS OF STABILIZATION INCLUDE UNDERCUTTING, MOISTURE CONDITIONING, OR CHEMICAL STABILIZATION. THE SITUATION SHOULD BE DISCUSSED WITH THE OWNER'S GEOTECHNICAL REPRESENTATIVE TO EVALUATE THE APPROPRIATE PROCEDURE. TEST PITS MAY BE EXCAVATED TO EXPLORE THE SHALLOW SUBSURFACE MATERIALS TO HELP IN DETERMINING THE CAUSE OF THE OBSERVED UNSTABLE MATERIALS, AND TO ASSIST IN THE EVALUATION OF APPROPRIATE REMEDIAL ACTIONS TO STABILIZE THE SUBGRADE.
- THE CONTRACTOR SHALL CONSTRUCT THE POND EMBANKMENT WITH LEAN CLAY SOIL (SCS-CL) IN 8" LIFTS @ 100% STANDARD PROCTOR DENSITY WITH 42% OPTIMUM MOISTURE CONTENT. PI>7, LL<50. THE CONTRACTOR SHALL IMPORT SOIL WITH THE SPECIFIED CLASSIFICATION ABOVE IF NOT AVAILABLE ONSITE. THE FILL USED TO CONSTRUCT THE EMBANKMENT SHALL EXTEND 1' BELOW THE POND BOTTOM ELEVATION. THE OWNER'S GEOTECHNICAL ENGINEER SHALL OBSERVE AND MONITOR EMBANKMENT CONSTRUCTION.

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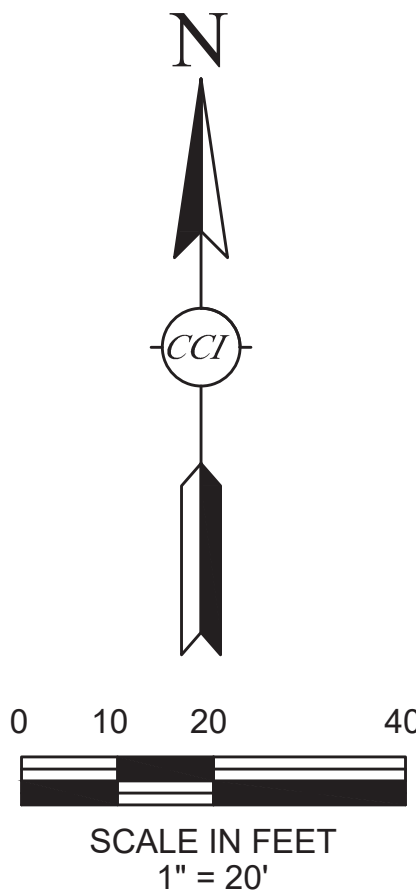
EROSION CONTROL LEGEND		
		INLET PROTECTION
		OUTLET PROTECTION
		SEDIMENT BARRIER SILT FENCE, TYPE A
		CONCRETE WASHOUT PIT
		SOD (BERMUDA)
		CONSTRUCTION EXIT PAD
		EROSION CONTROL BLANKET AMERICAN GREEN S150BN (OR APPROVED EQUAL)
		DUST CONTROL
		TEMPORARY SEEDING

SPECIAL NOTE
TRUCKS AND EQUIPMENT SHOULD UTILIZE WASHPAD OR CONSTRUCTION EXIT PAD WHILE SOILS ARE EXPOSED. ANY SEDIMENT TRACKED INTO ADJACENT BUSINESS AREAS OR ONTO ROCKWELL BLVD ARE TO BE CLEANED PRIOR TO END OF DAY.

- INTERMEDIATE EROSION CONTROL SEQUENCE**
1. REMOVE SOFT, YIELDING OR UNSUITABLE MATERIAL.
 2. BEGIN GRADING FOR ROADWAYS AND PADS, MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
 3. PROVIDE INLET PROTECTION IMMEDIATELY FOLLOWING INLET INSTALLATION AND MAINTAIN WHILE SOIL SUBGRADE IS EXPOSED.

- FINAL EROSION CONTROL SEQUENCE**
1. PROVIDE SODDING OF NON PAVED DISTURBED AREAS.
 2. AFTER ALL AREAS ARE STABILIZED, REMOVE CONSTRUCTION ENTRANCES, SILT BARRIERS, AND OTHER TEMPORARY SEDIMENT CONTROL DEVICES.

GENERAL EROSION & SEDIMENT CONTROL NOTES
SEE SHEET C0.1 FOR GENERAL EROSION & SEDIMENT CONTROL NOTES.



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ENGINEER-OF-RECORD
NICHOLAS J. OSTROWSKI, P.E.
AL REG. NO. 38762

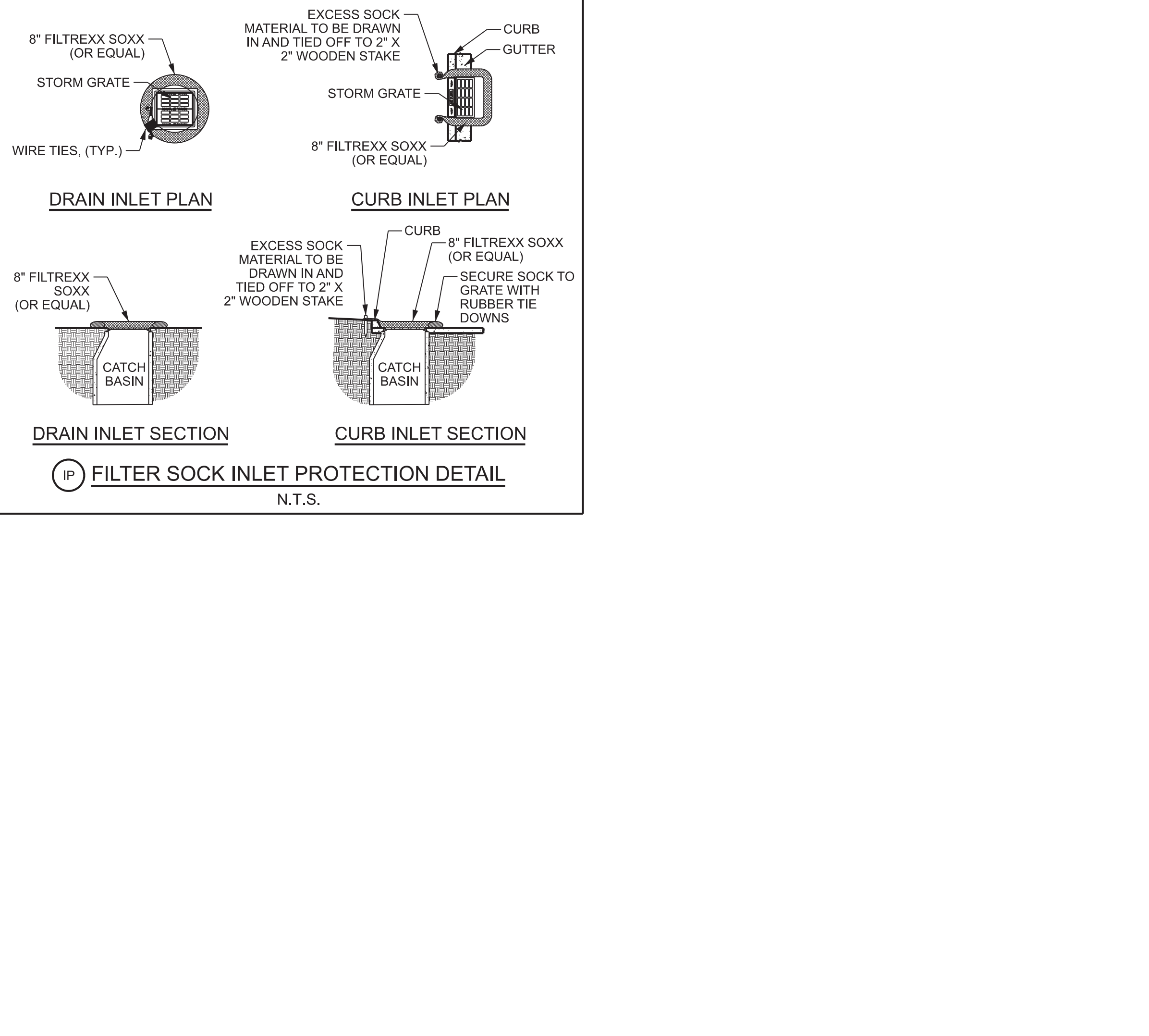
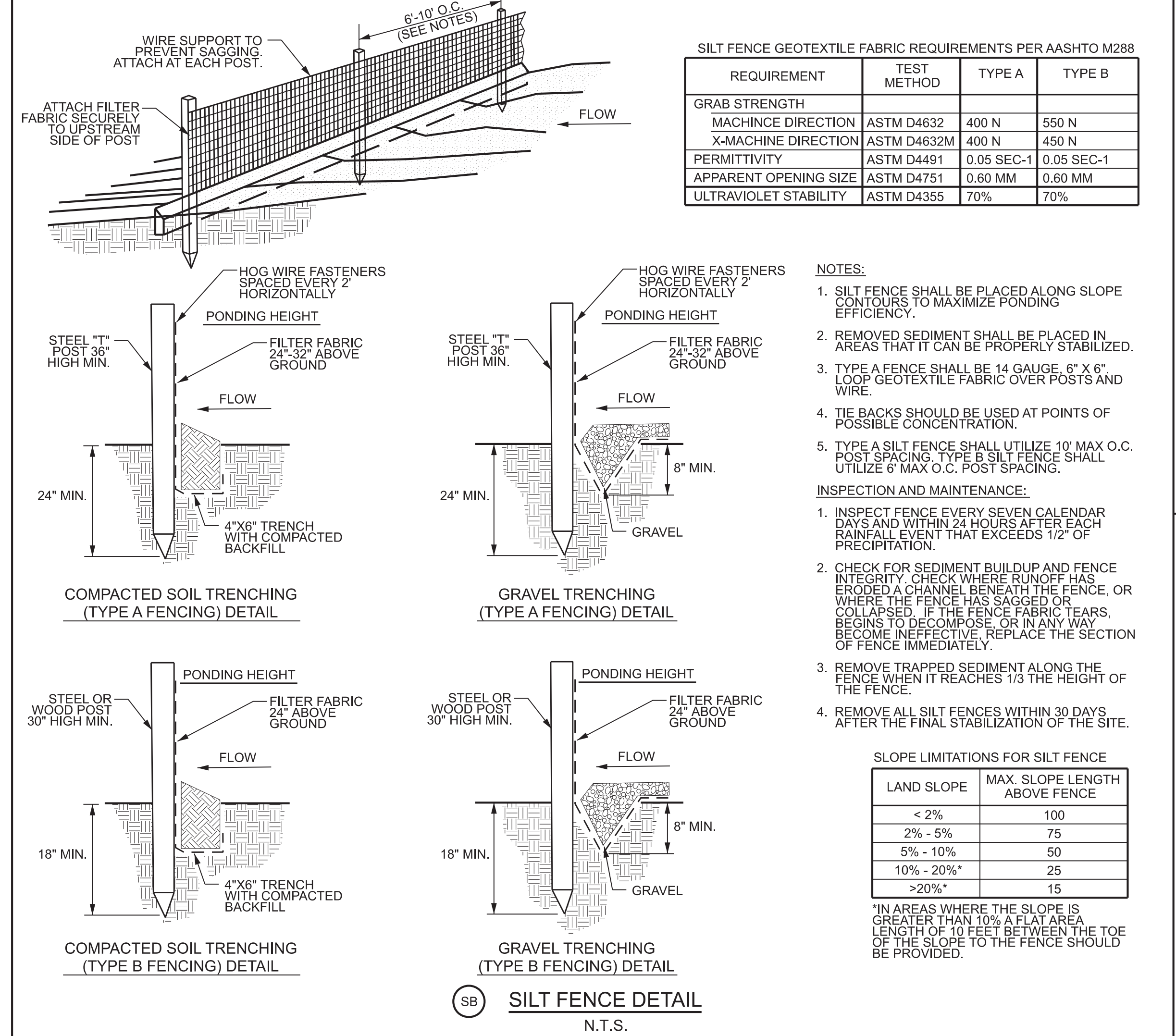
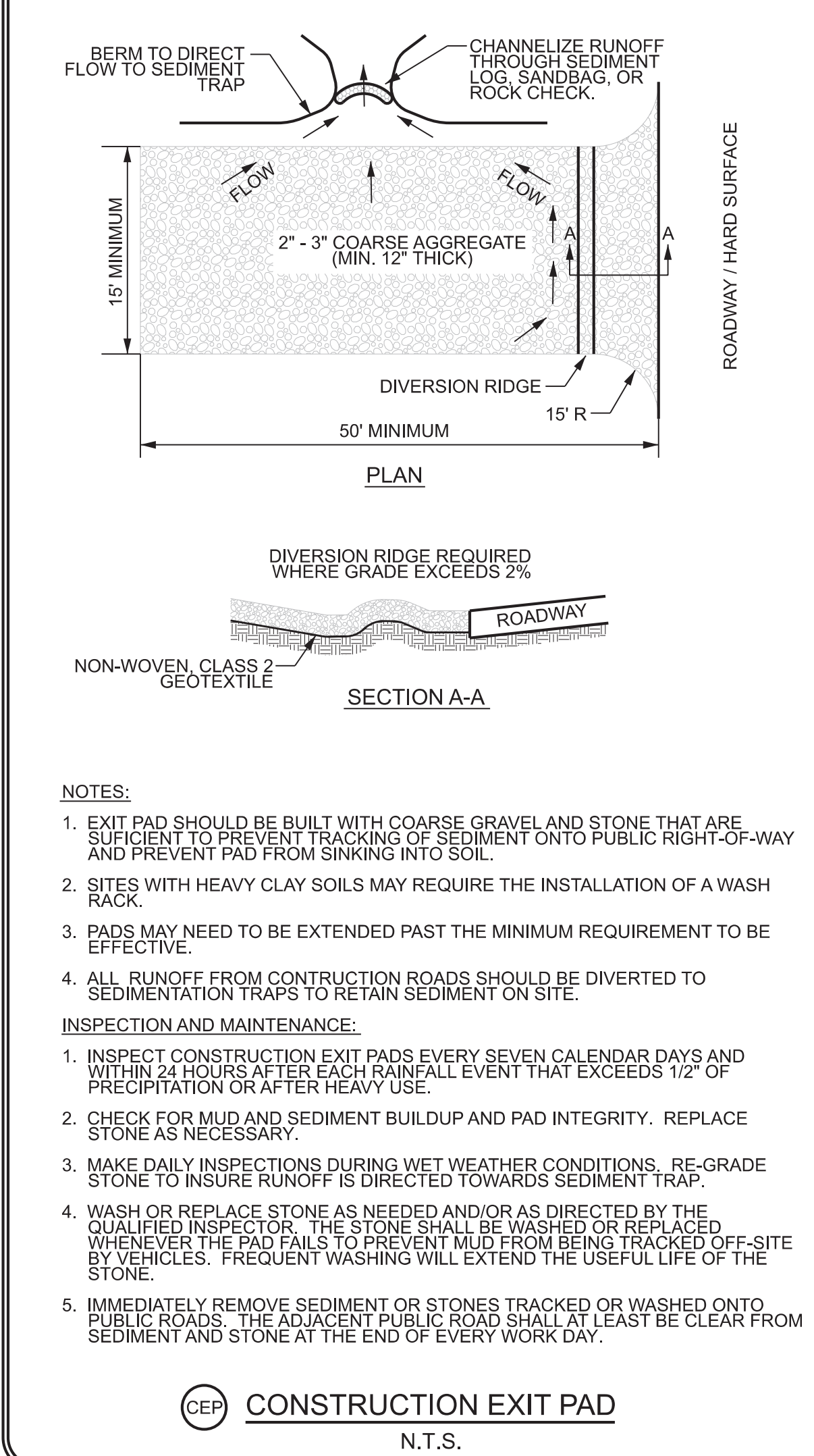
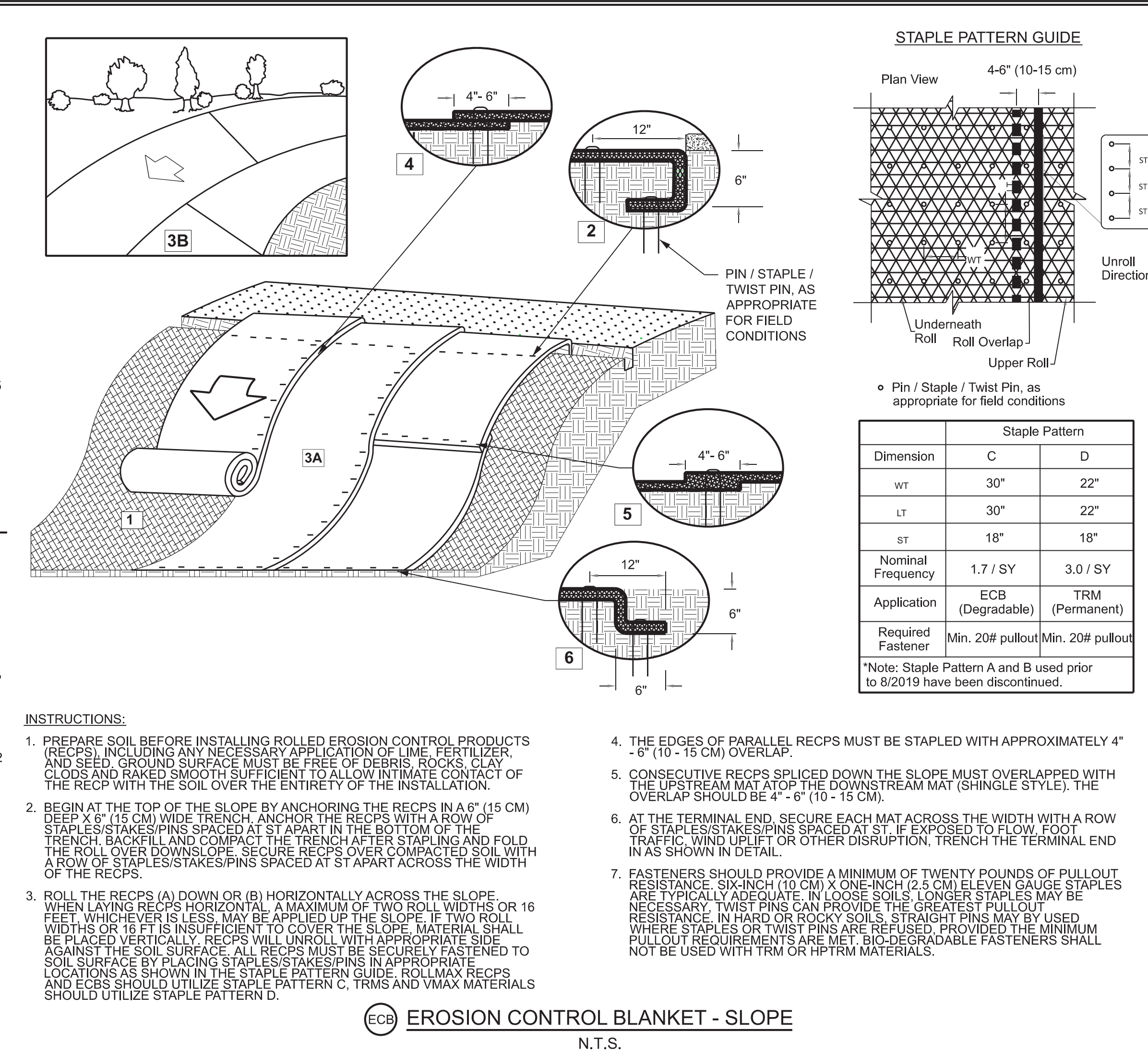
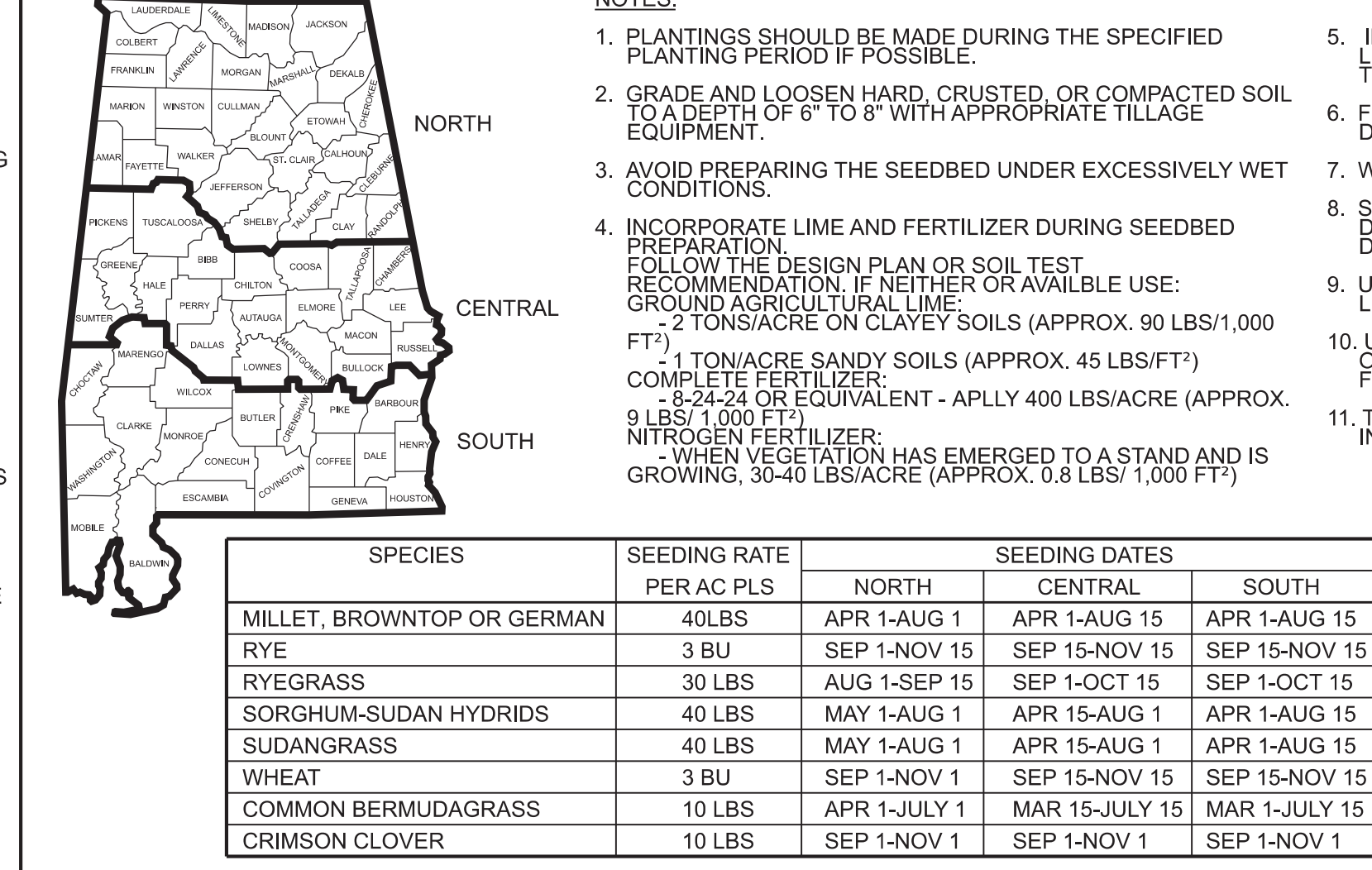
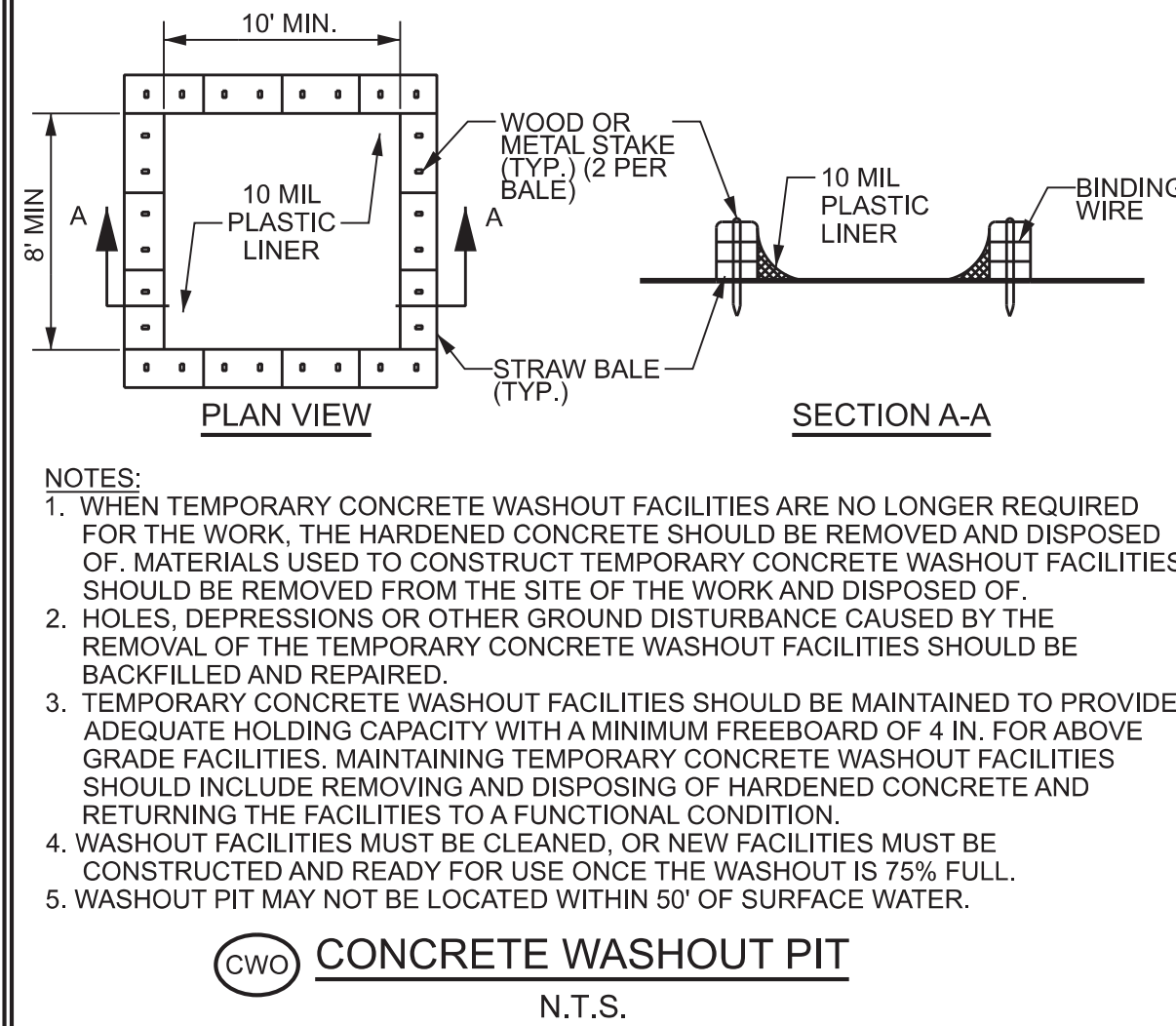
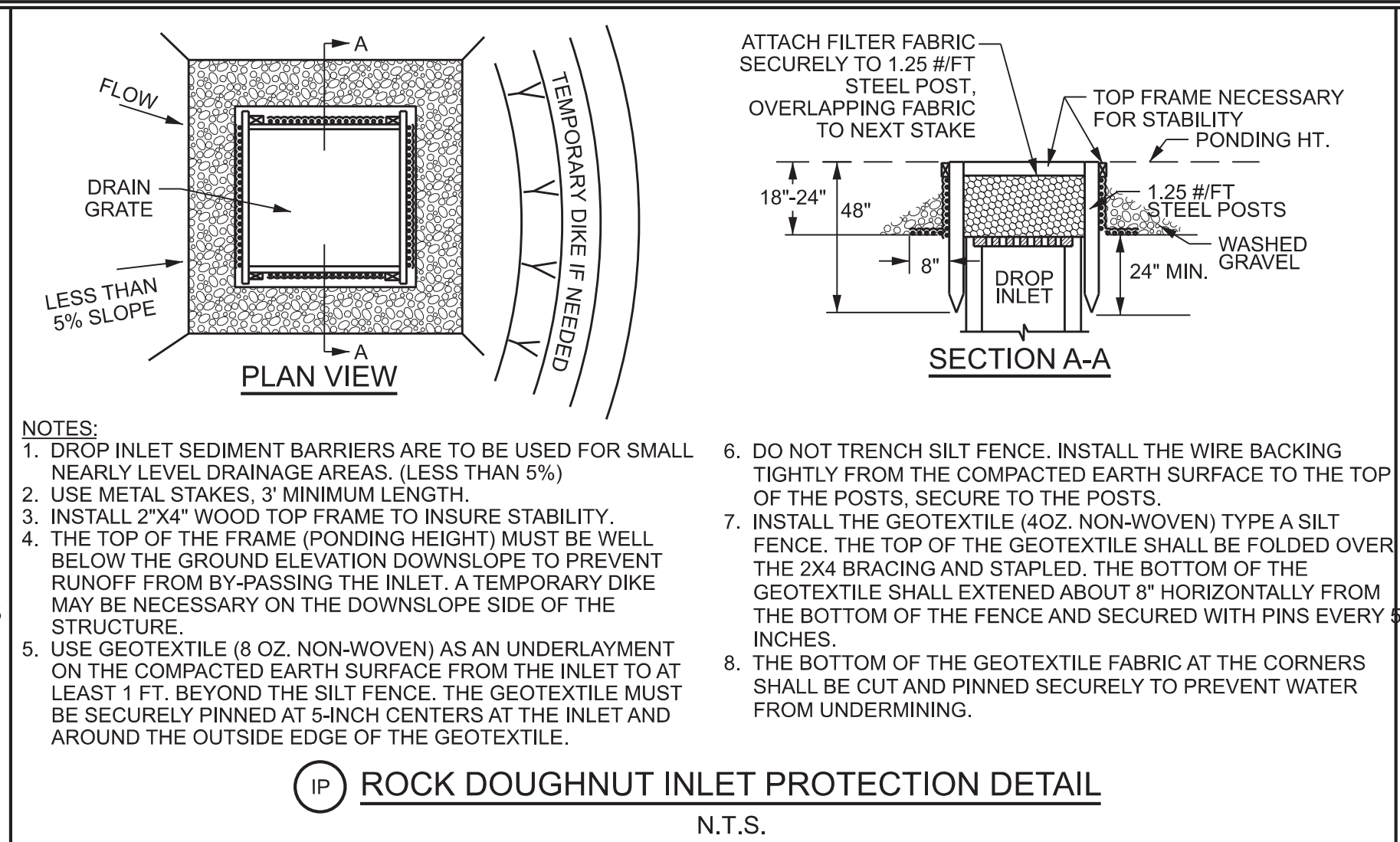
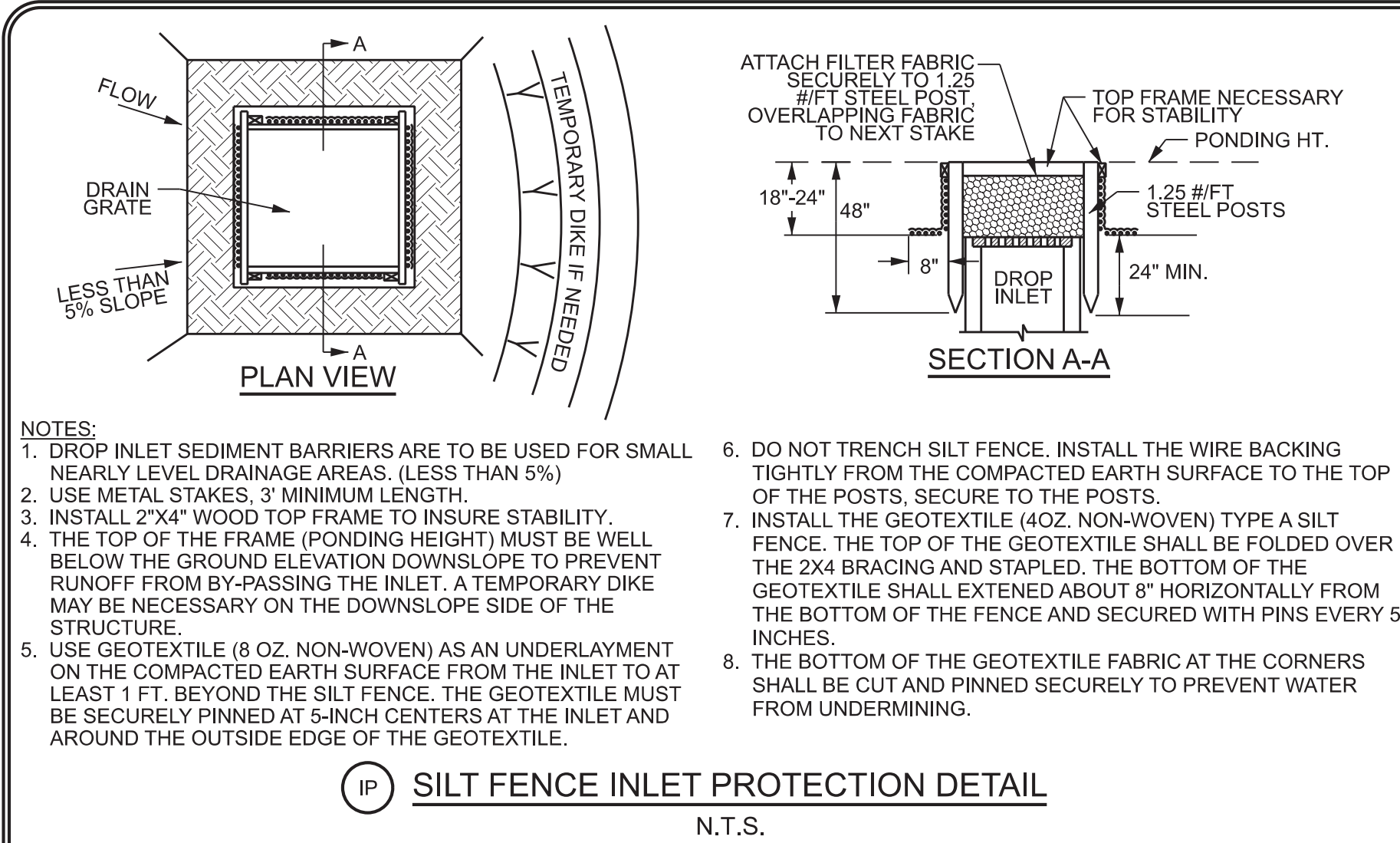
INTERMEDIATE - FINAL EROSION & SEDIMENT CONTROL PLAN

EXPRESS OIL CHANGE
FAIRHOPE, ALABAMA
FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

DATE: 02/12/2025
PROJECT NO.: EXP00011
FORWARD BY: SAR
CHECKED BY: NJO
DATE: 02/12/2025
SCALE: 1" = 20'

NO.	DESCRIPTION	REVISIONS	BY	DATE
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			NJO	02/12/2025

DRAWING NO.
C4.0



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ENGINEER-OF-RECORD
AL REG. NO. 38782
NICHOLAS J. OSTROM

CONSTRUCTION DETAILS & SECTIONS I

EXPRESS OIL CHANGE
FAIRHOPE, AL

FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

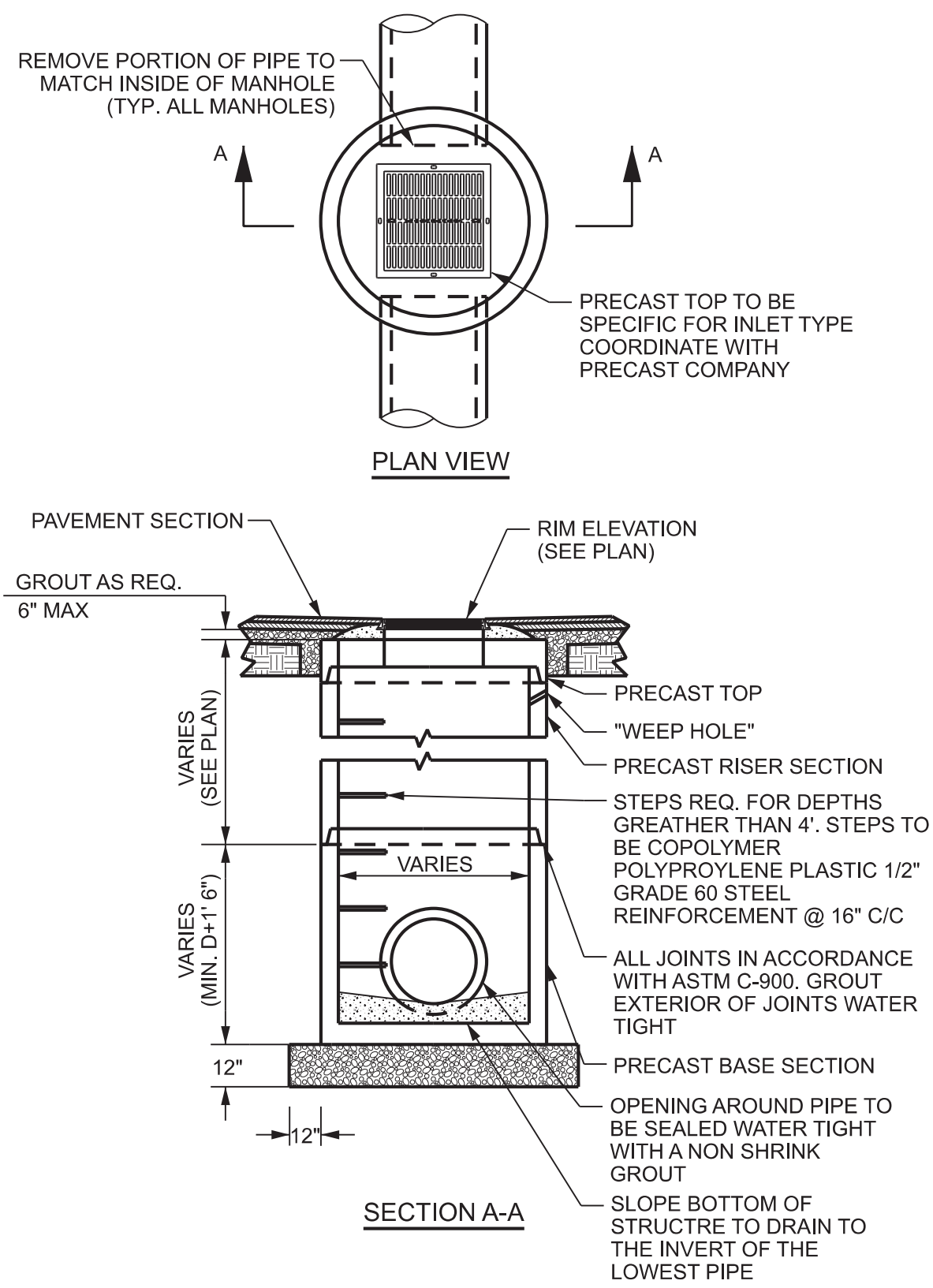
DATE: 02/12/2025
PROJECT NO: EXP0011
DRAWN BY: SAR
CHECKED BY: NJO
SCALE: N.T.S.

REVISIONS

NO. DESCRIPTION

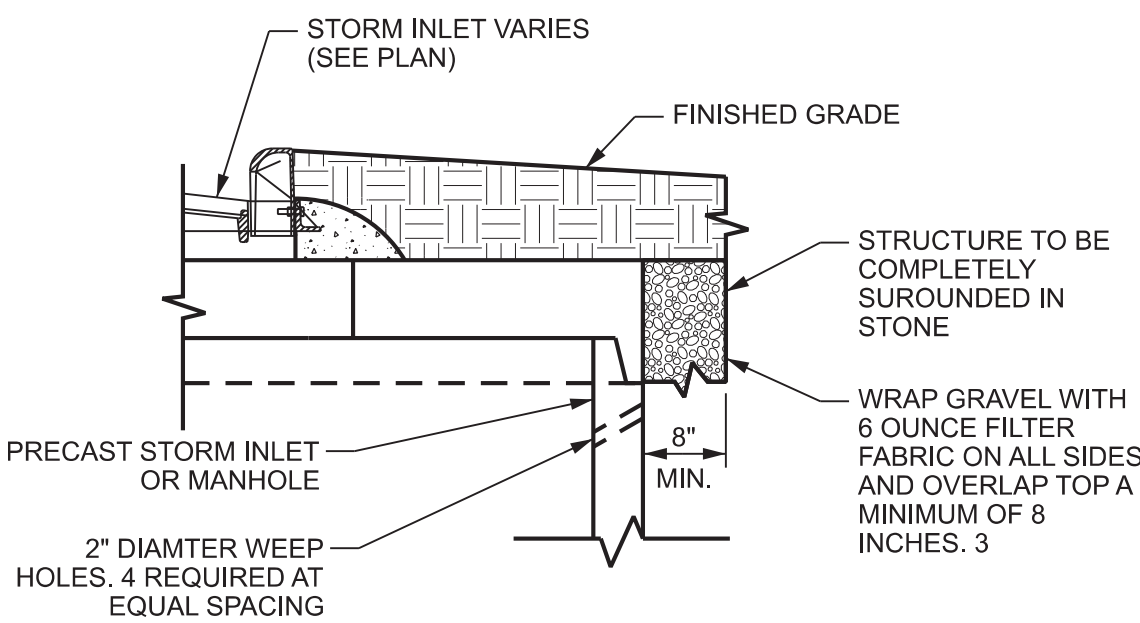
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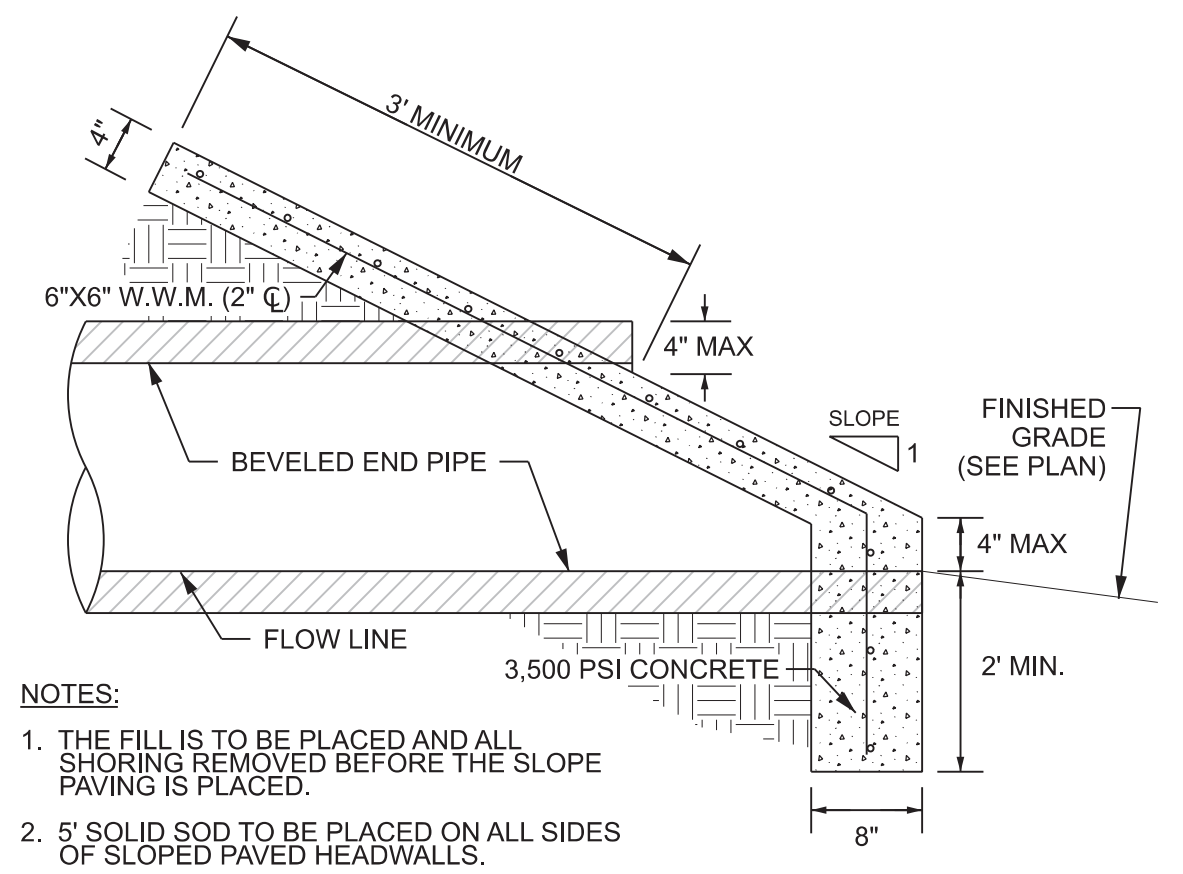


GRATE INLET NOTES:
1. GRATE INLETS SHALL BE E.J. V5636 GRATE AND V5636 FRAME.
2. CONTRACTOR SHALL PROVIDE ENGINEER WITH SHOP DRAWINGS OF ALL STRUCTURES PRIOR TO INSTALLATION.
3. WORKING POINT FOR COORDINATES TO BE CENTER OF STRUCTURE. SEE PLAN.
4. MINIMUM MANHOLE DIAMETER TO BE THE EFFLUENT PIPE OUTSIDE DIAMETER PLUS 12" OR 48", WHICHEVER IS GREATER.

GRATE INLET OVER PRECAST STRUCTURE
N.T.S.

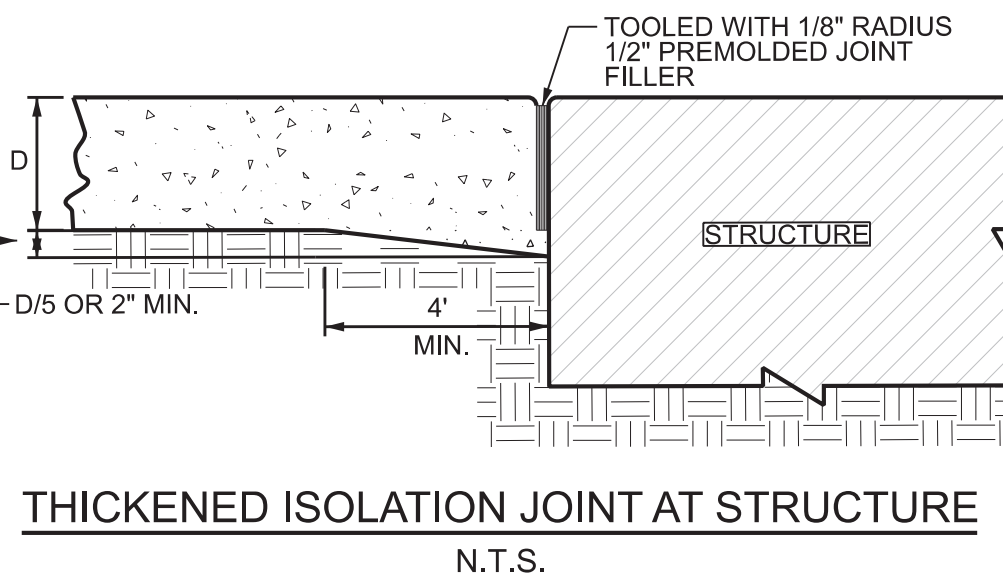
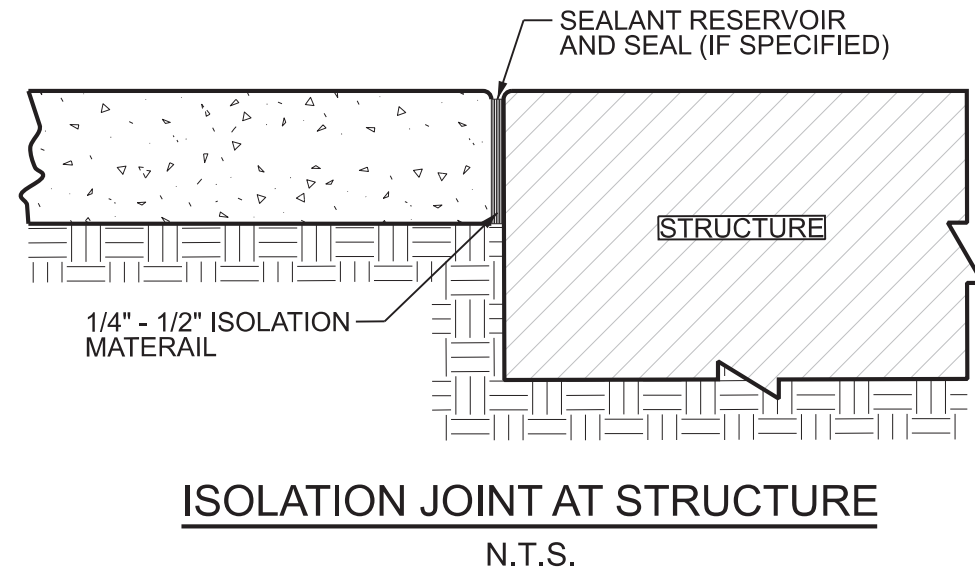


STORM INLET AND MANHOLE
WEEP HOLE DETAIL
N.T.S.

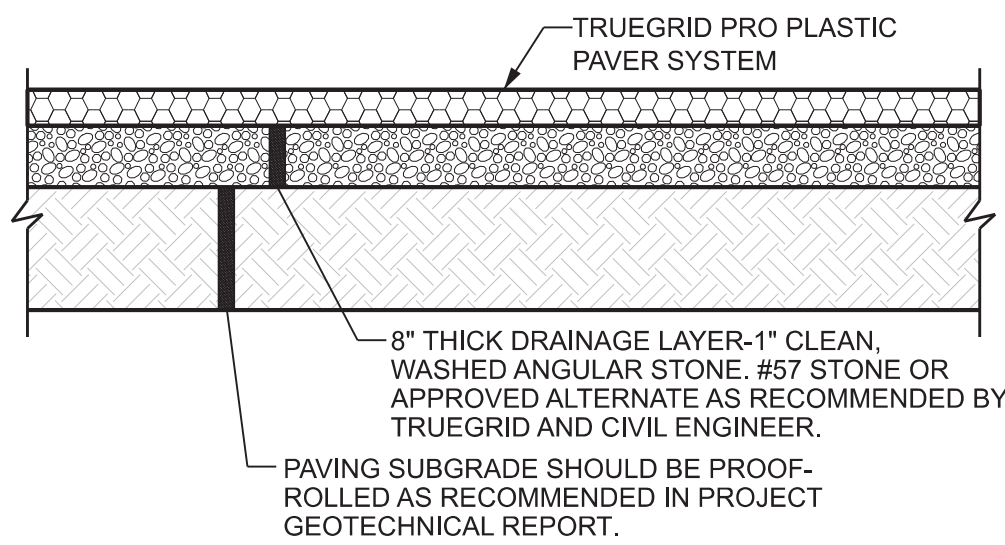


NOTES:
1. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
2. 5" SOLID SOD TO BE PLACED ON ALL SIDES OF SLOPED PAVED HEADWALLS.

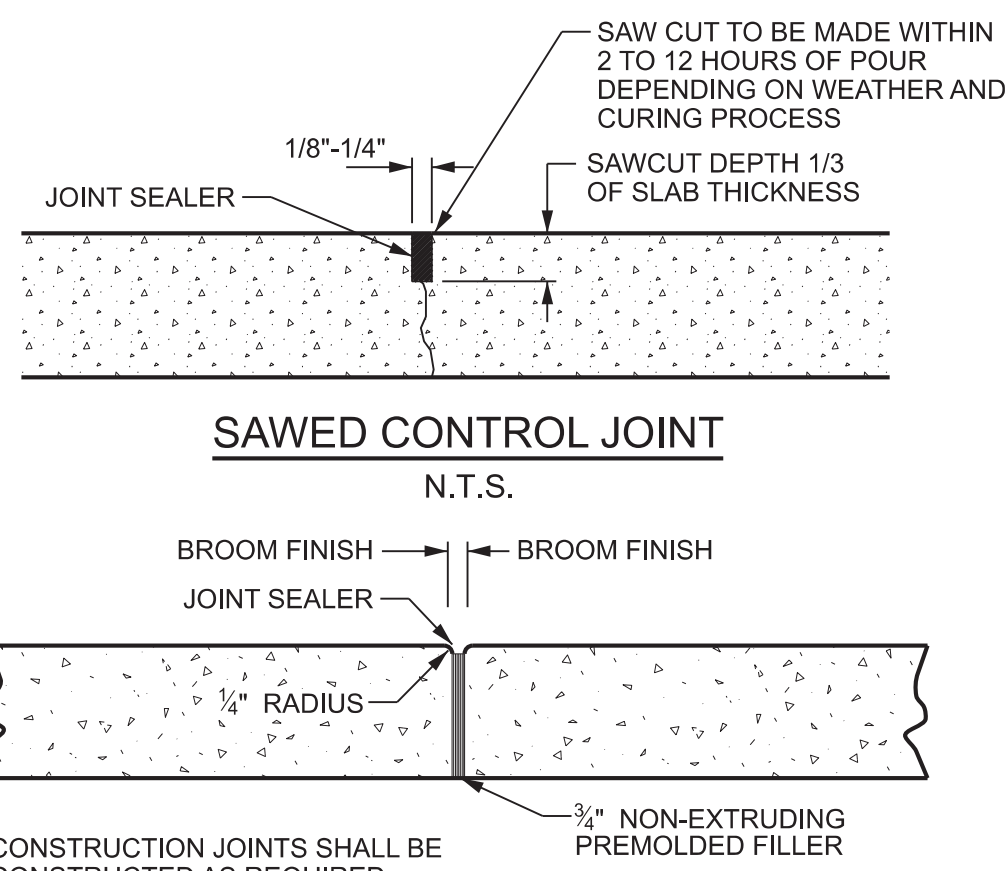
SLOPE PAVED HEADWALL DETAIL
N.T.S.



THICKENED ISOLATION JOINT AT STRUCTURE
N.T.S.

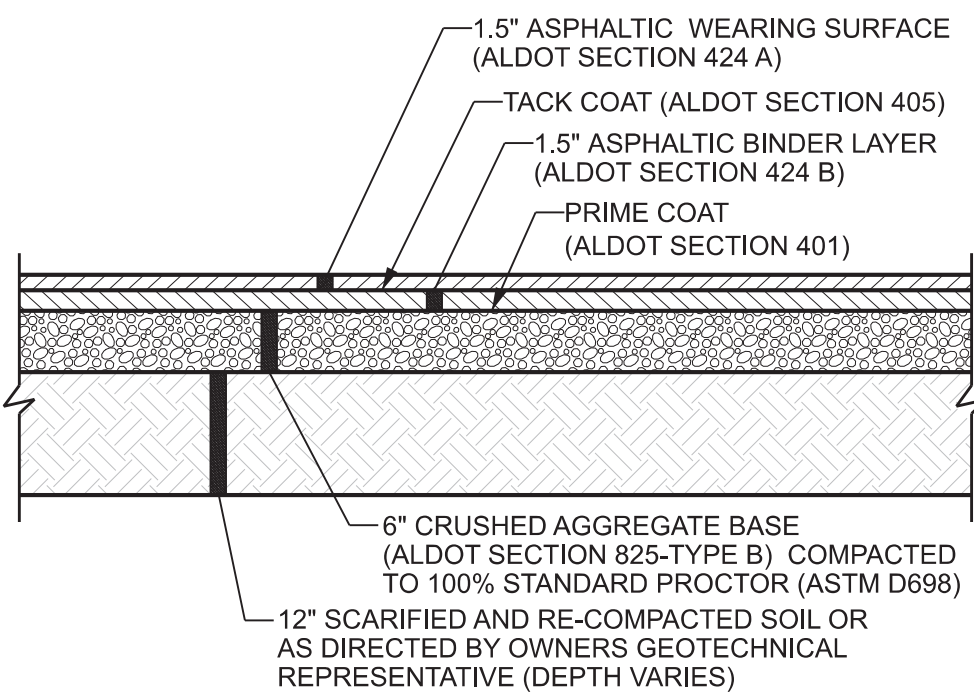


PERMEABLE PAVEMENT SECTION
N.T.S.

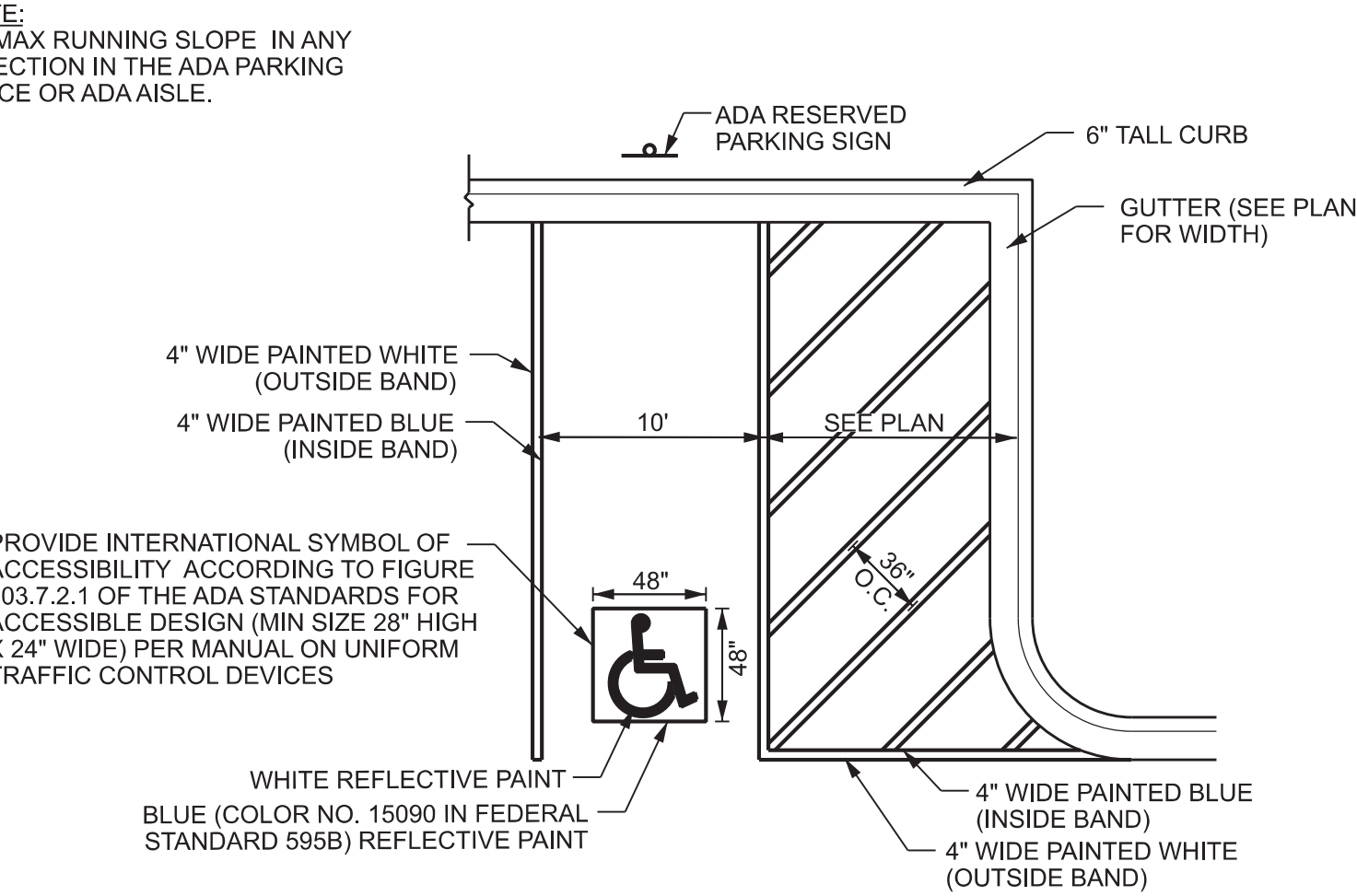


NOTE: 1. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED AS REQUIRED.
2. ALL SEAL RESERVOIRS AND CONTRACTION JOINTS SHALL BE SAWED.
3. PLACE JOINTS @ 25' O.C. OR AS NOTED ON DRAWINGS.

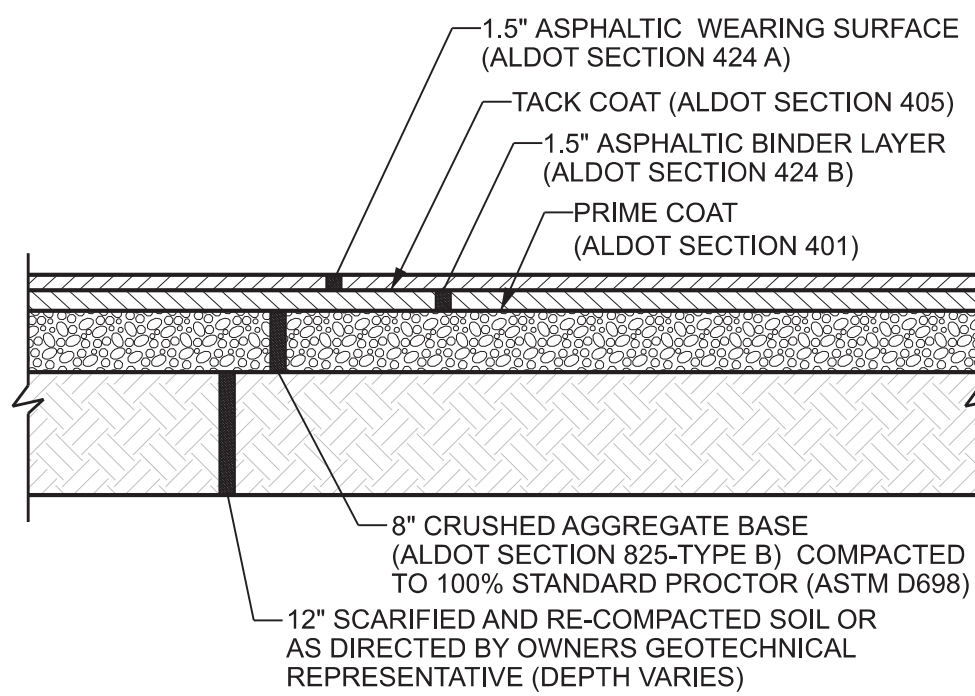
EXPANSION JOINT
N.T.S.



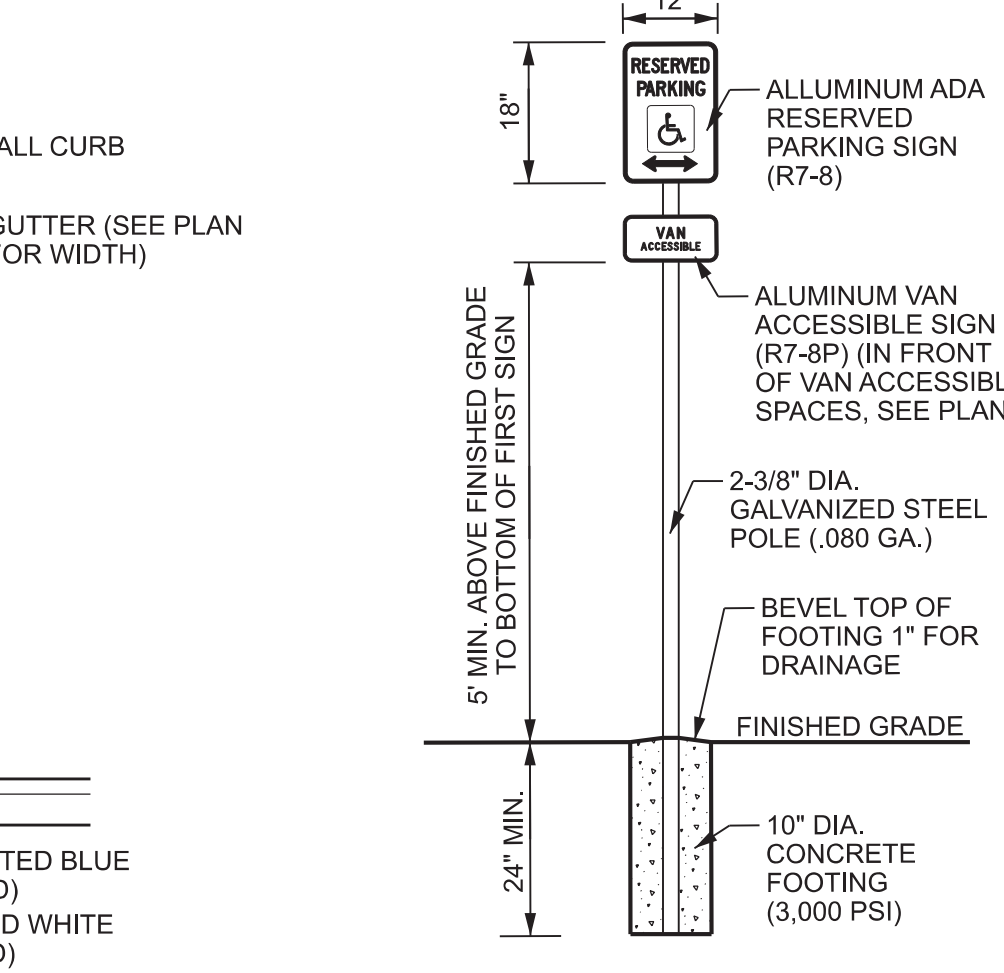
STANDARD DUTY ASPHALT PAVING SECTION
N.T.S.



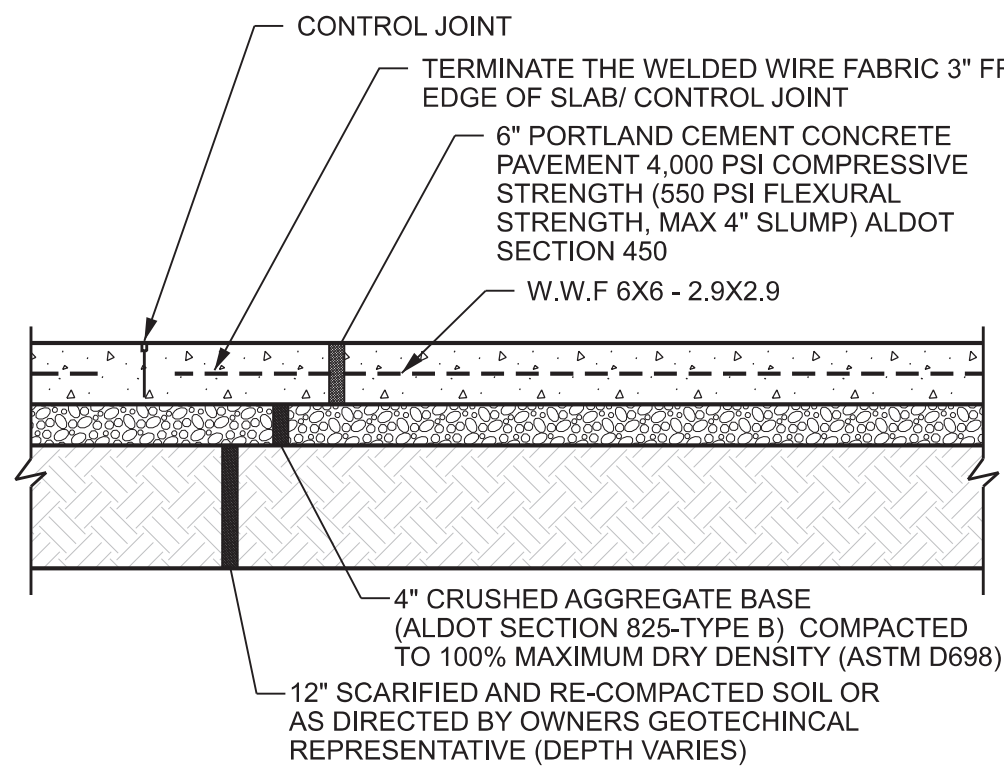
ADA PARKING DETAIL
N.T.S.



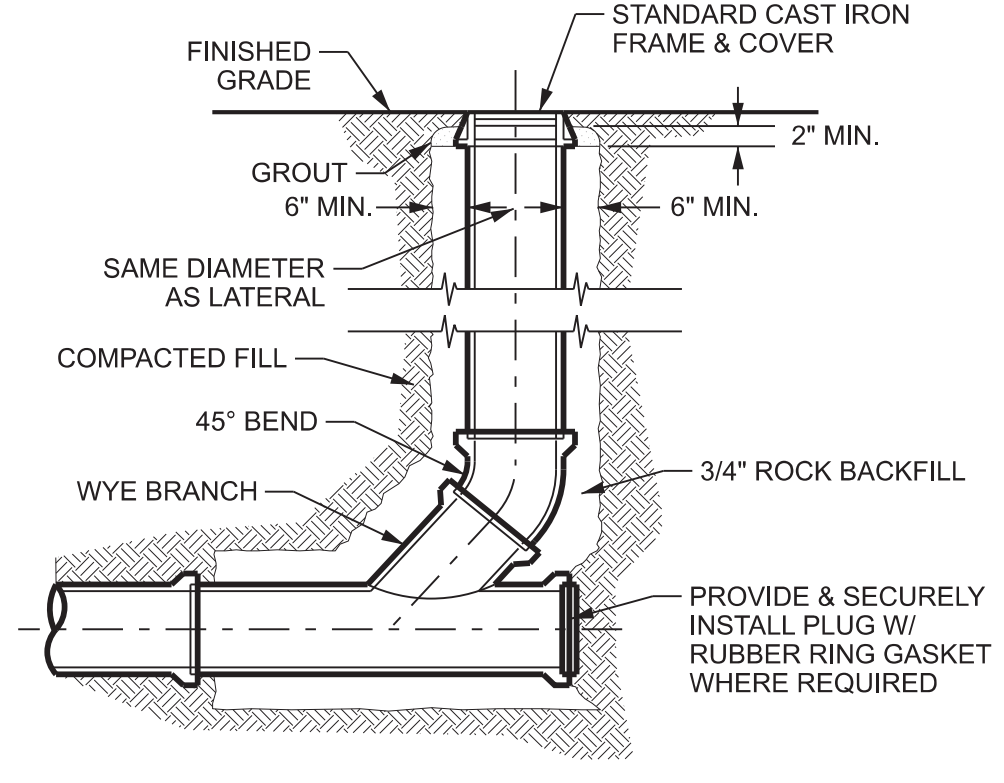
HEAVY DUTY ASPHALT PAVING SECTION
N.T.S.



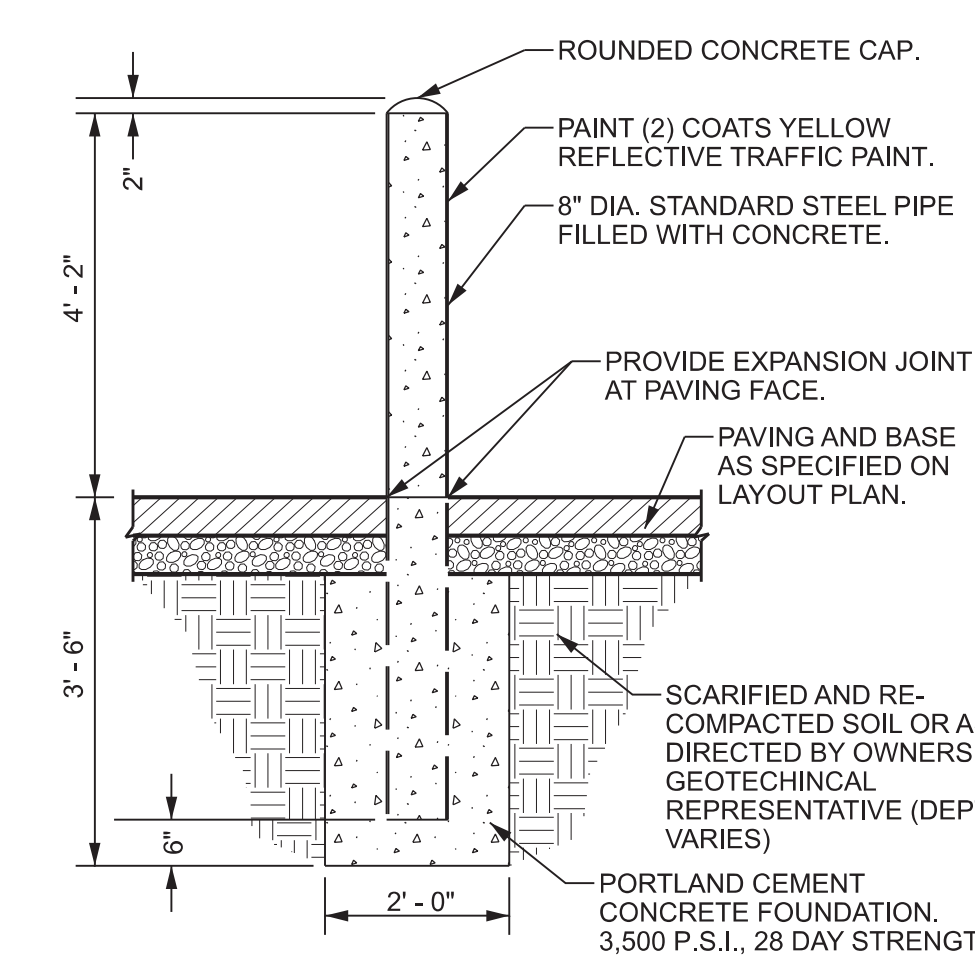
ADA SIGNAGE



CONCRETE PAVING SECTION
N.T.S.



CLEANOUT DETAIL
N.T.S.



BOLLARD DETAIL
N.T.S.

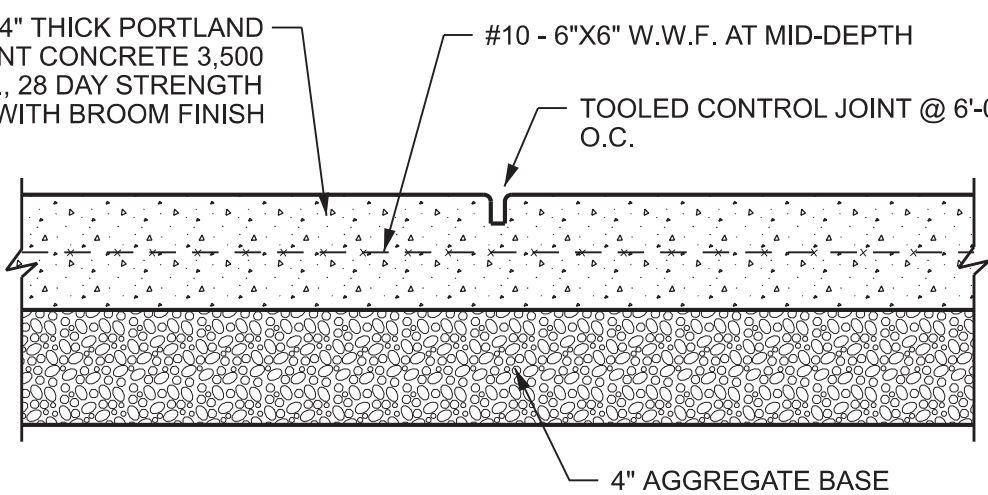
NOTES:

1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
2. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT ASTM SPEC A 123.
3. HOLES 3/8" IN DIAMETER SHALL BE PLACED ON 1 INCH CENTERS STARTING 1 INCH FROM THE POST TOP AND EXTENDING THE FULL LENGTH OF THE POST.
4. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE ALL THREADS IN THE NUT.

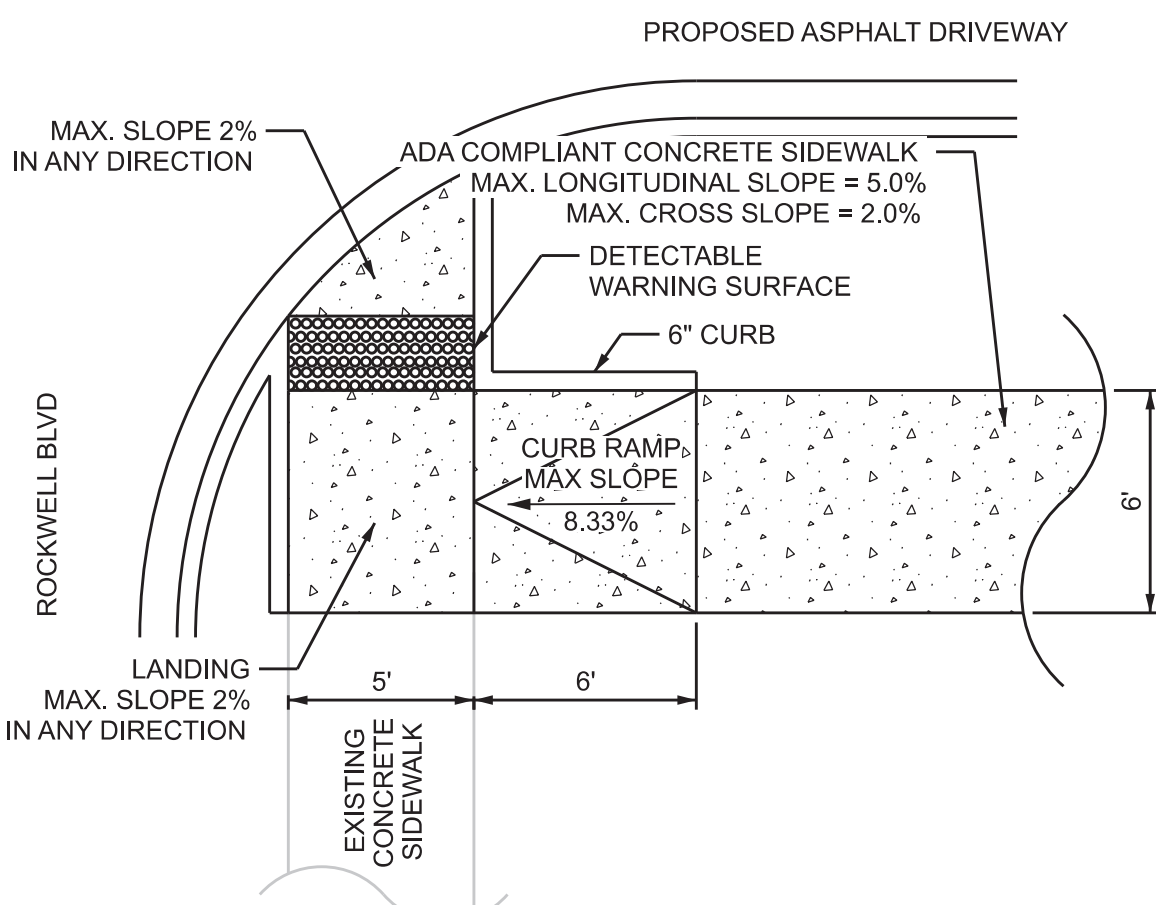
STOP SIGN (R1-1) DETAIL
N.T.S.

NOTES:

1. WHERE SIDEWALKS ABUTS A CURB OR STRUCTURE PROVIDE AN 1/2" EXPANSION JOINT WITH SEALER.
2. CROSS SLOPE SHALL BE 1% MINIMUM AND 2% MAXIMUM.
3. TERMINATE THE WELDED WIRE FABRIC 3" FROM EDGE OF SLAB.
4. PROVIDE 3/8" EXPANSION JOINTS @ 25'-0" O.C.
5. SIDEWALK WIDTH VARIES, SEE PLANS

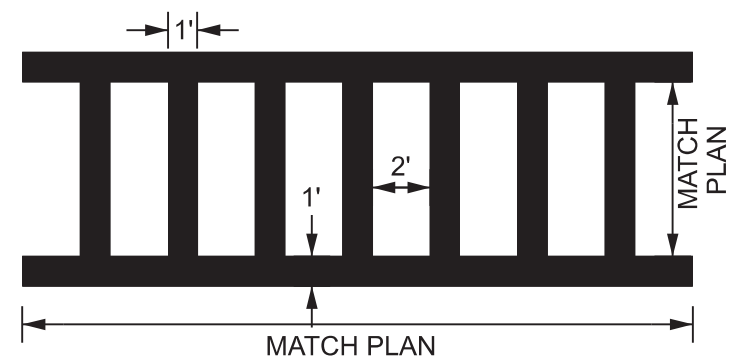


SIDEWALK DETAIL
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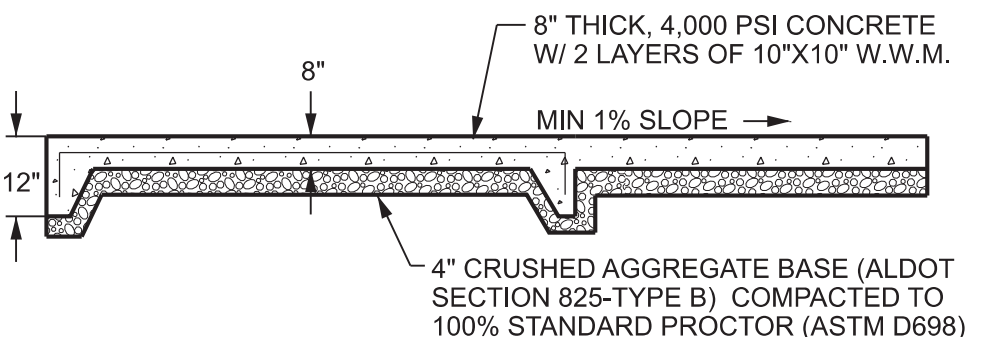


CURB RAMP DETAIL
N.T.S.

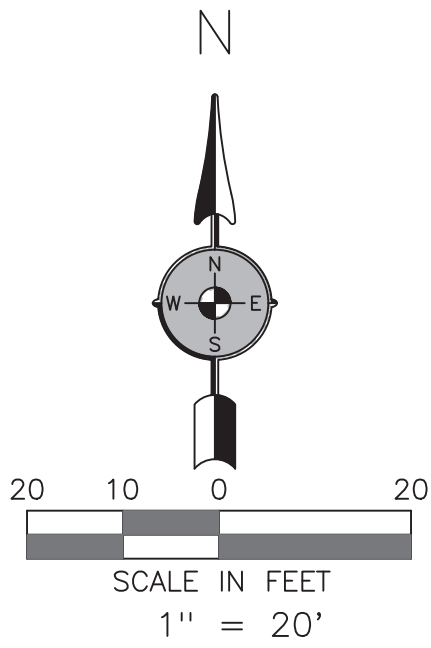
NOTE:
1. ALL CROSSWALK MARKINGS SHALL BE THERMOPLASTIC AND SOLID WHITE IN COLOR.



LADDER-TYPE CROSSWALK DETAIL
N.T.S.



DUMPSTER PAD PAVEMENT SECTION
N.T.S.



- LEGEND**
- CR1 = 1/2" CAPPED REBAR IRON FOUND (THOMPSON)
 - MBSL = MINIMUM BUILDING SETBACK LINE
 - (R) = RECORD
 - (A) = ACTUAL
 - BM = TEMPORARY BENCH MARK
 - DM = STORM DRAIN MANHOLE
 - W = WATER VALVE
 - FD = FIRE HYDRANT
 - SS = SANITARY SEWER MANHOLE
 - SV = SEWER VALVE
 - LP = LIGHT POLE
 - SM = SEWER MARKER
 - GI = GRATED INLET
 - IC = IRRIGATION CONTROL VALVE
 - PB = POWER BOX
 - U = UNDERGROUND UTILITY BOX
 - FM = FOC MARKER
 - GV = GAS VALVE
 - AS = ASPHALT
 - CC = CONCRETE
 - SE = SPOT ELEVATION
 - CE = CONTOUR ELEVATION
 - CR1 = CRETE MYRTLE
 - UNIDENTIFIED LANDSCAPE TREE
 - L1 = 89°25'31" W 2.47'

LOT 1

NW CORNER HWY 181-HWY 104 SUBDIVISION
SLIDE 2725-E
05-46-02-03-0-000-004.001
BYC LLC
23100 ST HWY 181 FAIRHOPE, AL 36532

ROCKWELL BOULEVARD
PAVED PUBLIC RW VARIES

ROCKWELL BOULEVARD
PAVED PRIVATE DRIVE

BASE BEARING
S 89°44'22" E

236.37' (R)
236.39' (A)

LOT 8

43,676.22 SQFT
1.00 ACRES

05-46-02-03-0-000-004.244
CORTE, CAVE/MITCHELL 1 LLC
PO BOX 81322 MOBILE, AL 36689

N 89°38'26" W
N 89°39'39" W

235.51' (A)
238.02' (R)

LOT 7

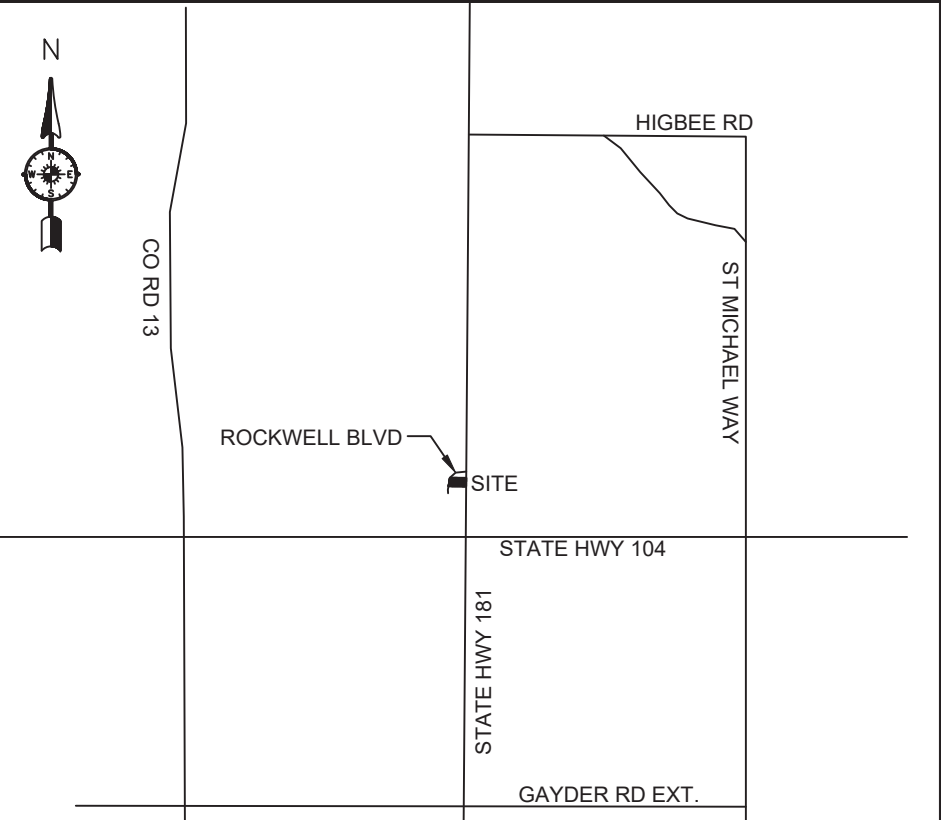
05-46-02-03-0-000-004.243
CORTE, CAVE/MITCHELL 1 LLC
PO BOX 81322 MOBILE, AL 36689

ZONING INFORMATION

Surveyor was not provided zoning information by insurer pursuant to Item 5b of Table A

SIGNIFICANT OBSERVATIONS

THIS SURVEY ONLY SHOWS AND CONTAINS A PORTION OF THE PARCEL OF LAND DESCRIBED IN COMMONWEALTH LAND TITLE INSURANCE COMPANY COMMITMENT #24-000720-NTS-Z2450270-KEY, THE AGREED SCOPE OF THIS SURVEY WAS ONLY FOR LOT 8, PLANTERS POINTE SUBDIVISION, AS RECORDED IN INSTRUMENT #2132202, WHICH IS A PORTION OF THE SAD DESCRIBED PARCEL FROM TITLE.



SURVEYOR'S NOTES:

1. TYPE OF SURVEY: ALTA/NSPS LAND TITLE SURVEY
2. BEARINGS AND SETBACKS BASED ON RECORD PLAT.
3. PROPERTY IS LOCATED IN FLOOD ZONE X-UNSHADED AS SCALED FROM FEDERAL INSURANCE ADMINISTRATION FLOOD HAZARD BOUNDARY MAP 01003C PANEL NO. 0661 SUFFIX M, DATED APRIL 19, 2019
4. THERE IS NO VISIBLE POSTED ADDRESS OF THE SUBJECT PROPERTY AT THE TIME OF SURVEY.
5. THE SUBJECT PROPERTY SURVEYED CONTAINS AN AREA OF 1.00 ACRES (43,676.22 SQUARE FEET), MORE OR LESS.
6. THERE ARE NO PARKING SPACES LOCATED ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY.
7. AT THE TIME OF SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF PARTY OR COMMON WALLS ON THE SUBJECT PROPERTY.
8. THE LOCATION OF THE UTILITIES SHOWN HEREON ARE FROM OBSERVED VISIBLE EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY.
9. AT THE TIME OF SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
10. AT THE TIME OF SURVEY, THERE WERE NO CHANGES IN STREET RIGHT OF WAY LINES OR OBSERVABLE EVIDENCE OF STREET OR SIDEWALK REPAIRS.
11. SUBJECT PROPERTY HAS DIRECT ACCESS TO ROCKWELL BLVD, WHICH IS A DEDICATED, PUBLIC RIGHT-OF-WAY. THERE WERE NO CURB CUTS TO THE SUBJECT PROPERTY AT THE TIME OF SURVEY
12. AT THE TIME OF SURVEY, THERE WAS NO OBSERVABLE EVIDENCE OF THE SITE BEING USED AS A CEMETERY.
13. SOME FEATURES SHOWN ON THIS PLAT MAY BE SHOWN OUT OF SCALE FOR CLARITY. ALL DIMENSIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.
14. ALL OFFSITE EASEMENTS BENEFITTING THE PROPERTY, IF ANY, ARE SHOWN HEREON BASED ON DOCUMENTS PROVIDED TO THIS FIRM. NO IMPROVEMENTS HAVE BEEN LOCATED WITHIN OFFSITE EASEMENTS.
15. ALL COMPONENT PARCELS OF THE LAND SHOWN ON THE SURVEY ARE CONTIGUOUS AND THERE ARE NO APPARENT GAPS OR GORES BETWEEN THEM.
16. 811 TICKET #241922519
17. THIS FIRM DOES NOT SPECIALIZE IN UNDERGROUND UTILITY LOCATION. ALL UNDERGROUND INFORMATION SHOWN ON THIS SURVEY IS SHOWN PER INFORMATION PROVIDED TO THIS FIRM BY 811 THE ACCURACY OF THIS INFORMATION IS NOT GURANTEED
18. THE UNDERGROUND UTILITY INFORMATION SHOWN ON THIS SURVEY APPEARS INCOMPLETE AS THERE ARE SOME ABOVE GROUND MARKERS LOCATED WITHOUT ANY LINES LEADING FROM THEM OR SOME LINES THAT APPEAR TO HAVE GAPS.

RECORD LEGAL DESCRIPTION:

LOT 2 OF THE NORTHWEST CORNER OF HWY 181-HWY 104 SUBDIVISION AS RECORDED ON SLIDE 2725-E IN THE OFFICE OF THE JUDGE OF PROBATE, BALDWIN COUNTY, ALABAMA.

THE ABOVE DESCRIBED PARCEL OF LAND IS THE SAME LAND AS DESCRIBED IN COMMONWEALTH LAND TITLE INSURANCE COMPANY COMMITMENT NUMBER 24-000720-NTS-Z2450270-KEY BEARING AN EFFECTIVE DATE OF APRIL 11, 2024.

SURVEYOR'S CERTIFICATION

TO: COMMONWEALTH LAND TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6A, 6B, 7A, 7B1, 7C, 8, 9, 13, 14, 16, 17, 18 AND 20 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JULY 23, 2024.

PRELIMINARY

J. BRETT ORRELL, P.L.S. ALA. LICENSE NO: 31836-S

COMMONWEALTH LAND TITLE INSURANCE COMPANY ISSUING OFFICE'S ALTA REGISTRY ID: 0000006 ISSUING OFFICE FILE NUMBER: 24-000720-NTS-Z2450270-KEY DATE OF POLICY: APRIL 11, 2024	
SCHEDULE B-II EXCEPTIONS	
1. OIL, GAS AND MINERAL LEASE FROM A. I. COTRE JR., ALSO KNOWN AS ATILLO I. CORTE, JR., AND BARBARA YARBROUGH CORTE TO AMERADA HESS CORPORATION, FILED FOR RECORD 12/08/1976 IN DEED BOOK 510, PAGE 269 ON PROPERTY - BLANKET	
2. RIGHT-OF-WAY FROM BARBARA Y. CORTE TO THE UTILITIES BOARD OF THE CITY OF FOLEY, DATED 06/24/1998, FILED FOR RECORD IN REAL PROPERTY BOOK 845, PAGE 623 ON PROPERTY - NO PORTABLE TRMS. REFERENCES PARENT TRACT	
3. RELEASE OF DAMAGES SET FORTH IN DEED TO THE STATE OF ALABAMA DATED 01/24/2014, RECORDED AS INSTRUMENT NUMBER 1439234 OFF PROPERTY - AS SHOWN	
4. NON-EXCLUSIVE EASEMENT FOR INGRESS, EGRESS AND UTILITIES FROM BARBARA Y. CORTE TO THE SANCTUARY, LLC, DATED 04/27/2005, RECORDED AS INSTRUMENT NUMBER 887981 AS SHOWN ON SURVEY DATED 07/30/2021, BY JOHNNY E. HOLLEY, PLS# 23660 FOR THOMPSON ENGINEERING OFF PROPERTY	
5. BUILDING SETBACK LINES, DRAINAGE AND UTILITY EASEMENT, TERMS, CONDITIONS AND RESTRICTIONS AS SET OUT ON RECORDED PLAT OF SAID SUBDIVISION RECORDED ON SLIDE 2725-E AND AS SHOWN ON SURVEY DATED 07/30/2021, BY JOHNNY E. HOLLEY, PLS# 23660 FOR THOMPSON ENGINEERING ON PROPERTY - REFERENCES AND SUBDIVISION: SEE INST. #2132202	
6. DEED FOR PERMANENT DRAINAGE EASEMENT AS RECORDED IN INSTRUMENT NUMBER 1883828 AND AS SHOWN ON SURVEY DATED 07/30/2021, BY JOHNNY E. HOLLEY, PLS# 23660 FOR THOMPSON ENGINEERING. OFF PROPERTY - LOCATION OF DRAINAGE OUTFALL	
7. RESTRICTIONS, COVENANTS, CONDITIONS, RESERVATIONS AND EASEMENTS RECORDED IN INSTRUMENT NUMBER 1888620 AND AS SHOWN ON SURVEY DATED 07/30/2021, BY JOHNNY E. HOLLEY, PLS# 23660 FOR THOMPSON ENGINEERING AS AMENDED BY DOC # 2108011 NOT SURVEY RELATED	
8. EASEMENT RESERVED IN WARRANTY DEED FROM BYC, LLC TO CORTE, CAVE/MITCHELL 1, DATED 09/09/2020, FILED FOR RECORD ON 09/11/2020 AS INSTRUMENT NUMBER 1857086 AND AS SHOWN ON SURVEY DATED 07/30/2021, BY JOHNNY E. HOLLEY, PLS# 23660 FOR THOMPSON ENGINEERING OFF PROPERTY - AS SHOWN	
9. SUBJECT TO THE TERMS AND CONDITIONS OF MEMORANDUM OF LEASE RECORDED IN INSTRUMENT NUMBER 1888619 AND TOGETHER WITH THAT CERTAIN SUBORDINATION, NON-DISTURBANCE AND ADJORNMENT AGREEMENT DATED SEPTEMBER 2, 2021, FROM PUBLIC ALABAMA, LLC, AN ALABAMA LIMITED LIABILITY COMPANY RECORDED SEPTEMBER 3, 2021, AS INSTRUMENT NUMBER 1941330. NOT SURVEY RELATED	
10. SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT BY AND BETWEEN PROTECTIVE LIFE INSURANCE COMPANY, PUBLIC SUPER MARKETS, INC. AND CORTE, CAVE/MITCHELL 1, LLC DATED 09/2/2021, FILED FOR RECORD 09/03/2021 AS INSTRUMENT NUMBER 1941330. NOT SURVEY RELATED - OFF PROPERTY	

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POLY
SURVEYING

SERVING
ALABAMA, FLORIDA
& MISSISSIPPI

CORPORATE OFFICE
5588 JACKSON RD
MOBILE, AL 36619
P. (251) 666-2010

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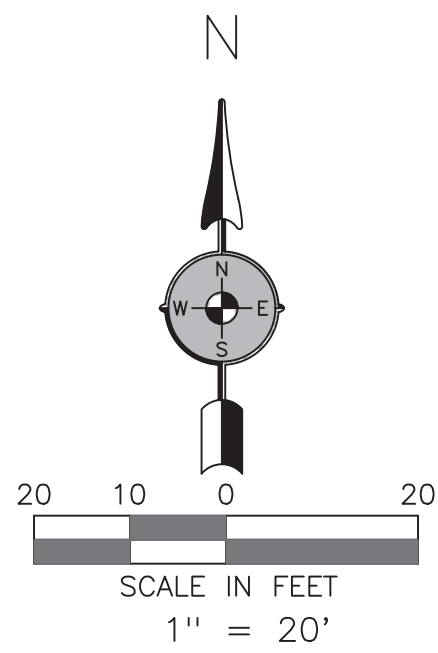
PREPARED FOR: CIVIL CONSULTANTS

LOT 8, PLANTERS POINTE SHOPPING

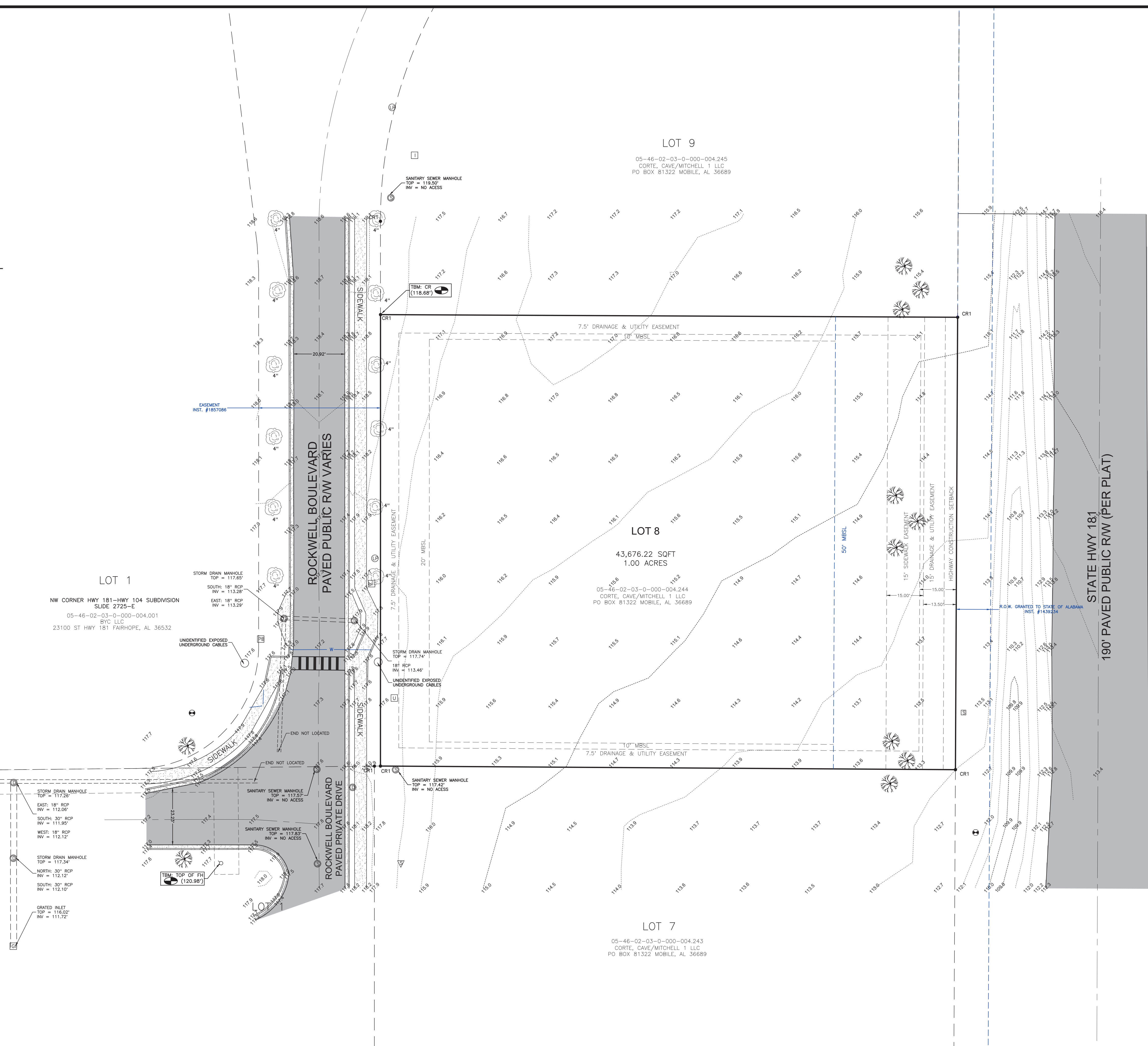
ALTA/NSPS LAND TITLE SURVEY

DRAWN BY: BLS SURVEY DATE: 7/25/2024 SCALE: 1"=20' 24"x36" PRINT
CHECKED BY: JBO FIELD DATE: 7/23/2024 FILE NAME: 2407-0401 S-(41)

SHEET NO.
1 of 2



- LEGEND**
- CR1 = 1/2" CAPPED REBAR IRON FOUND (THOMPSON)
 - MBSL = MINIMUM BUILDING SETBACK LINE
 - (R) = RECORD
 - (A) = ACTUAL
 - BM = TEMPORARY BENCH MARK
 - SM = STORM DRAIN MANHOLE
 - WV = WATER VALVE
 - FD = FIRE HYDRANT
 - SSM = SANITARY SEWER MANHOLE
 - SV = SEWER VALVE
 - LP = LIGHT POLE
 - SMK = SEWER MARKER
 - GI = GRATED INLET
 - ICV = IRRIGATION CONTROL VALVE
 - PB = POWER BOX
 - U = UNDERGROUND UTILITY BOX
 - FCM = FOC MARKER
 - GV = GAS VALVE
 - AS = ASPHALT
 - CON = CONCRETE
 - SE = SPOT ELEVATION
 - CE = CONTOUR ELEVATION
 - CM = CRETE MYRTLE
 - UL = UNIDENTIFIED LANDSCAPE TREE



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P O L Y
SURVEYING

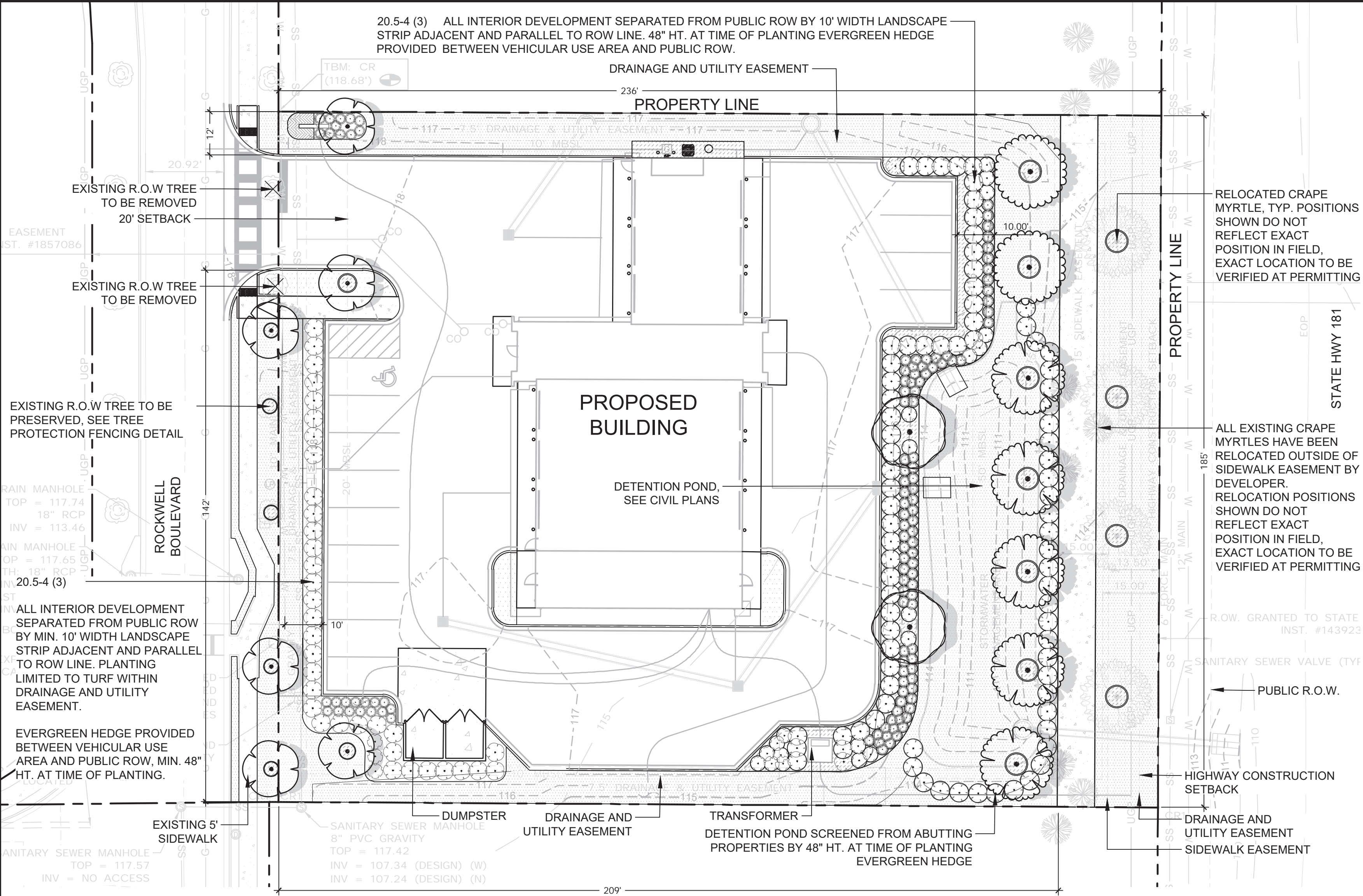
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MOBILE, AL 36619
P. (251) 666-2010

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PREPARED FOR: CIVIL CONSULTANTS			
LOT 8, PLANTERS POINT SHOPPING			
ALTA/NSPS LAND TITLE SURVEY			
DRAWN BY: BLS	SURVEY DATE: 7/25/2024	SCALE: 1"=20' 24"x36" PRINT	SHEET NO. 2 OF 2
CHECKED BY: JBO	FIELD DATE: 7/23/2024	FILE NAME: 2407-0401 S-(41)	

PLOTSTUDIO157923 Thursday, February 13, 2025 C:\USERS\PLOTSTUDIO\1578293\PLOT STUDIO DROPOBOX\PLOTSTUDIO1578293\PLOTSTUDIO1578293\24037 - COL - FAIRHOPE EOWORKING\AUTOCAD\Landscape.DWG



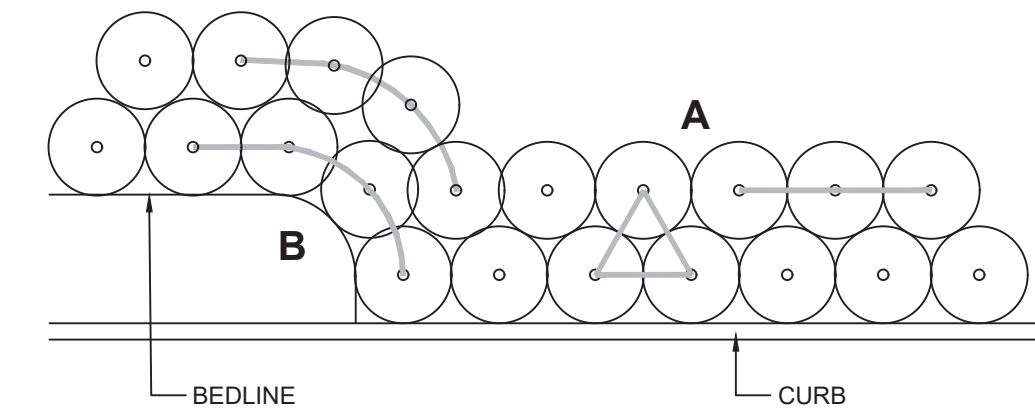
PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
PARKING LOT TREE						
	NS	Nyssa sylvatica / Tupelo	2" Cal.	B&B	2	10' Ht., Strong Central Leader, Full and Healthy
ROAD FRONTAGE TREE						
	AS	Acer barbatum / Southern Sugar Maple	2" Cal.	B&B	6	10' Ht., Strong Central Leader, Full and Healthy
	BR	Betula nigra / River Birch	2" Cal.	B&B	5	10' Ht., Strong Central Leader, Full and Healthy
	LT	Liriodendron tulipifera / Tulip Poplar	2" Cal.	B&B	2	10' Ht., Strong Central Leader, Full and Healthy
SHRUBS						
	CA	Callicarpa americana / American Beautyberry	3 gal.	Pot	23	24" ht. at time of planting, full and healthy.
	MC	Morella cerifera / Wax Myrtle	7 gal.	Pot	120	48" ht. at time of planting, full and healthy.
	MC2	Muhlenbergia capillaris / Pink Muhly Grass	1 gal.	Pot	115	18" ht. at time of planting, full and healthy.
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	REMARKS
GROUND COVERS						
	AC	Annual Color / By Owner	---	Square Foot	41 sf	Annual color planting to be provided by owner.
	ML	Mulch / Pinestraw	---	Square Foot	2,740 sf	Pinestraw mulch, free of contaminants and debris.
	TS	Turf Sod / Bermuda Grass	sod	Square Foot	13,396 sf	Full pieces, weed free

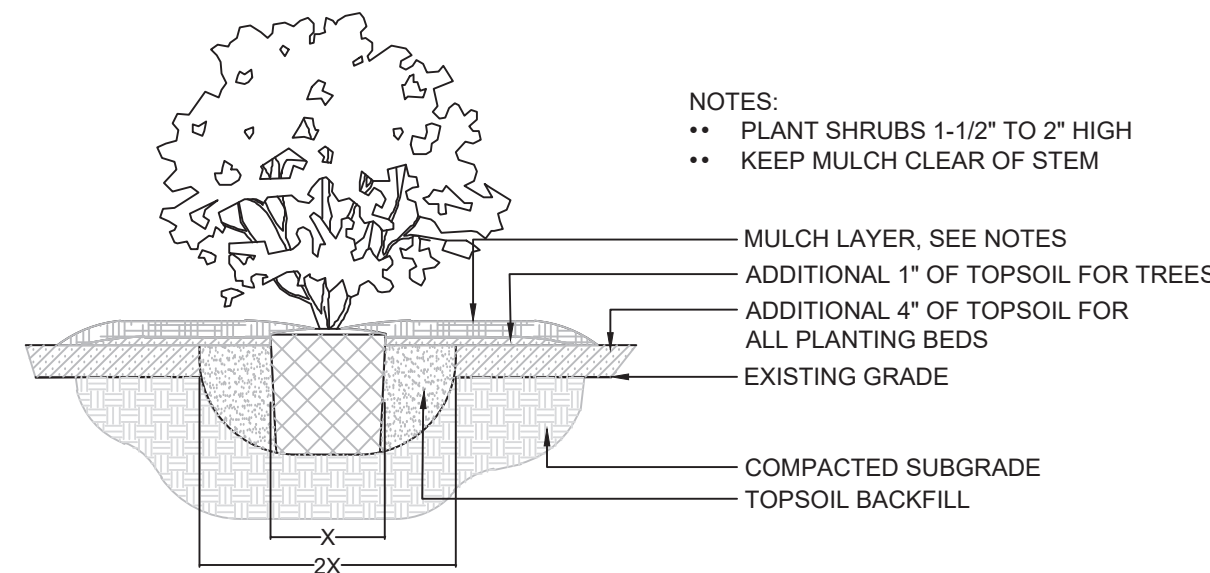
20.5-4 (7) 4 OVERSTORY TREE SPECIES PROVIDED ON SITE

SHRUB LAYOUT GUIDELINES:

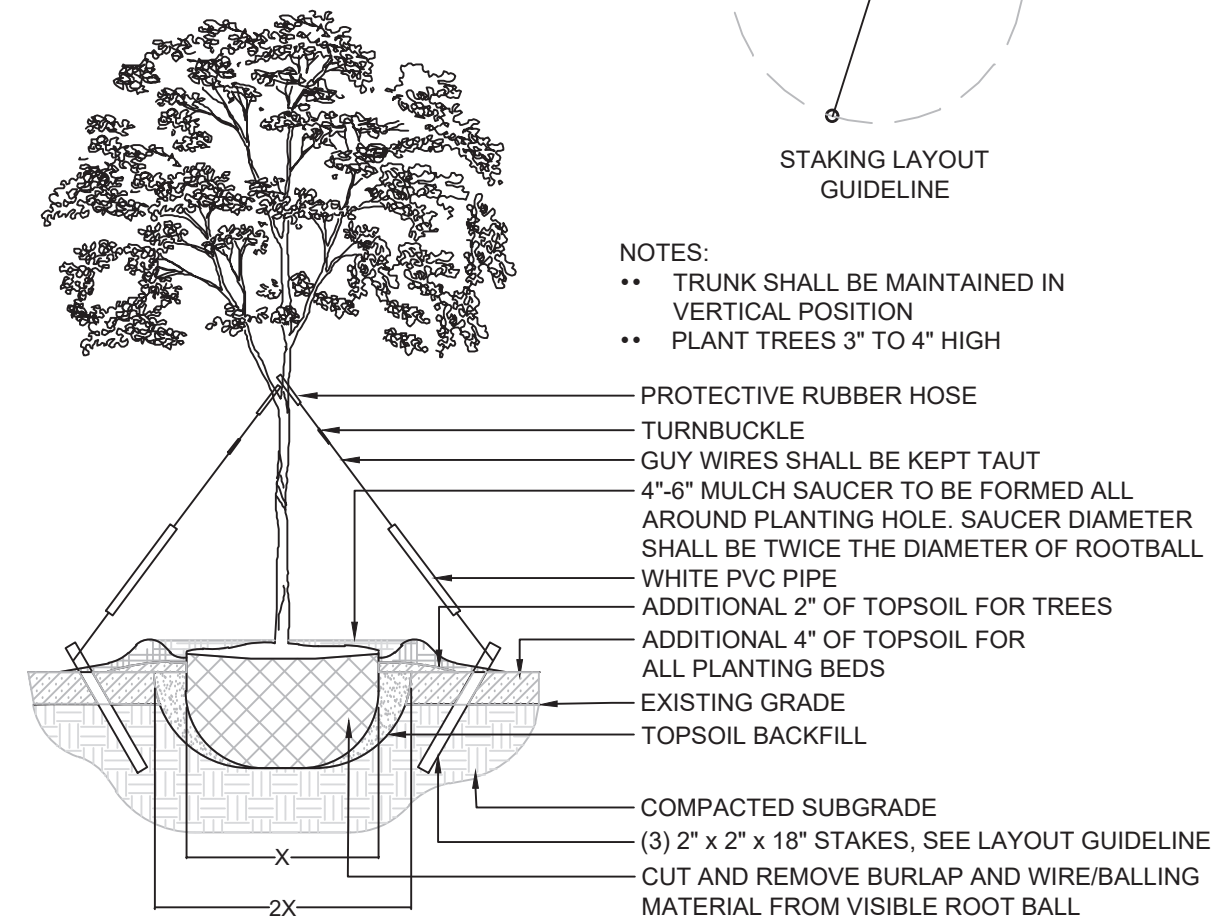
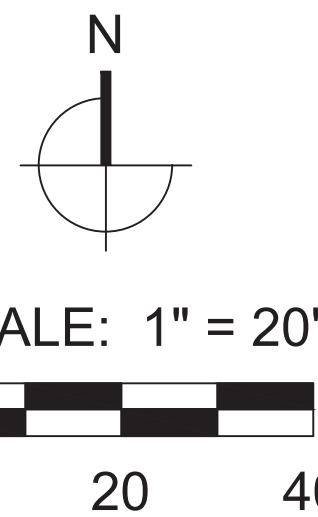
- A. SHRUBS AND GROUNDCOVERS ADJACENT TO STRAIGHT EDGES SHALL BE TRIANGULARLY SPACED IN ROWS PARALLEL TO THE STRAIGHT EDGE
- B. SHRUBS AND GROUNDCOVERS ADJACENT TO CURVED EDGES SHALL BE PLANTED IN ROWS PARALLEL TO THE CURVED EDGE. CURVED EDGES TO BE VERY SMOOTH RADIUS.



TYPICAL SHRUB SPACING



TYPICAL SHRUB PLANTING



TYPICAL TREE PLANTING - SECTION

20.5-4 (3) 20% OF SITE, EXCLUDING ROW, TO BE LANDSCAPED.
TOTAL SITE AREA (.99 ACRE = 43,125 SF) * .20 = 8,625 SF REQUIRED
14,000 SF PROVIDED
60% OF LANDSCAPE TO BE BETWEEN BUILDING AND ROW
REQ. LANDSCAPED AREA (8,625) * .60 = 5,175 SF REQUIRED
5,200 SF PROVIDED

20.5-4 (4) ALL INTERIOR DEVELOPMENT SEPARATED FROM PUBLIC ROW BY LANDSCAPE STRIP 10' IN WIDTH ADJACENT AND PARALLEL TO ROW LINE. EVERGREEN HEDGE PROVIDED BETWEEN VEHICULAR USE AREA AND PUBLIC ROW, MIN. 48" HT. AT TIME OF PLANTING. .

20.5-4 (5) 1 OVERSTORY TREE PER 30' OF ROAD FRONTAGE PROVIDED. TREES LOCATED OVER 25' FROM HWY 181 DUE TO SIDEWALK EASEMENT, DRAINAGE AND UTILITY EASEMENT, AND HIGHWAY CONSTRUCTION EASEMENT.
STATE HIGHWAY 181 PROPERTY LINE (185 LF) / 30 LF = 7 OVERSTORY TREES REQUIRED
7 OVERSTORY TREES PROVIDED
* 5 EXISTING TREES RELOCATED AND PLANTED WITHIN SIDEWALK EASEMENT
ROCKWELL BOULEVARD PROPERTY LINE (154 LF) / 30 LF = 6 OVERSTORY TREES REQUIRED
6 OVERSTORY TREES PROVIDED
* 2 EXISTING TREES RETAINED IN R.O.W., NOT COUNTED TOWARDS OVERSTORY TREE REQUIREMENT.

1 OVERSTORY OR UNDERSTORY TREE PROVIDED PER 12 PARKING SPACES OR PORTION THEREOF.
13 PARKING SPACES / 12 = 2 TREES REQUIRED
2 TREES PROVIDED

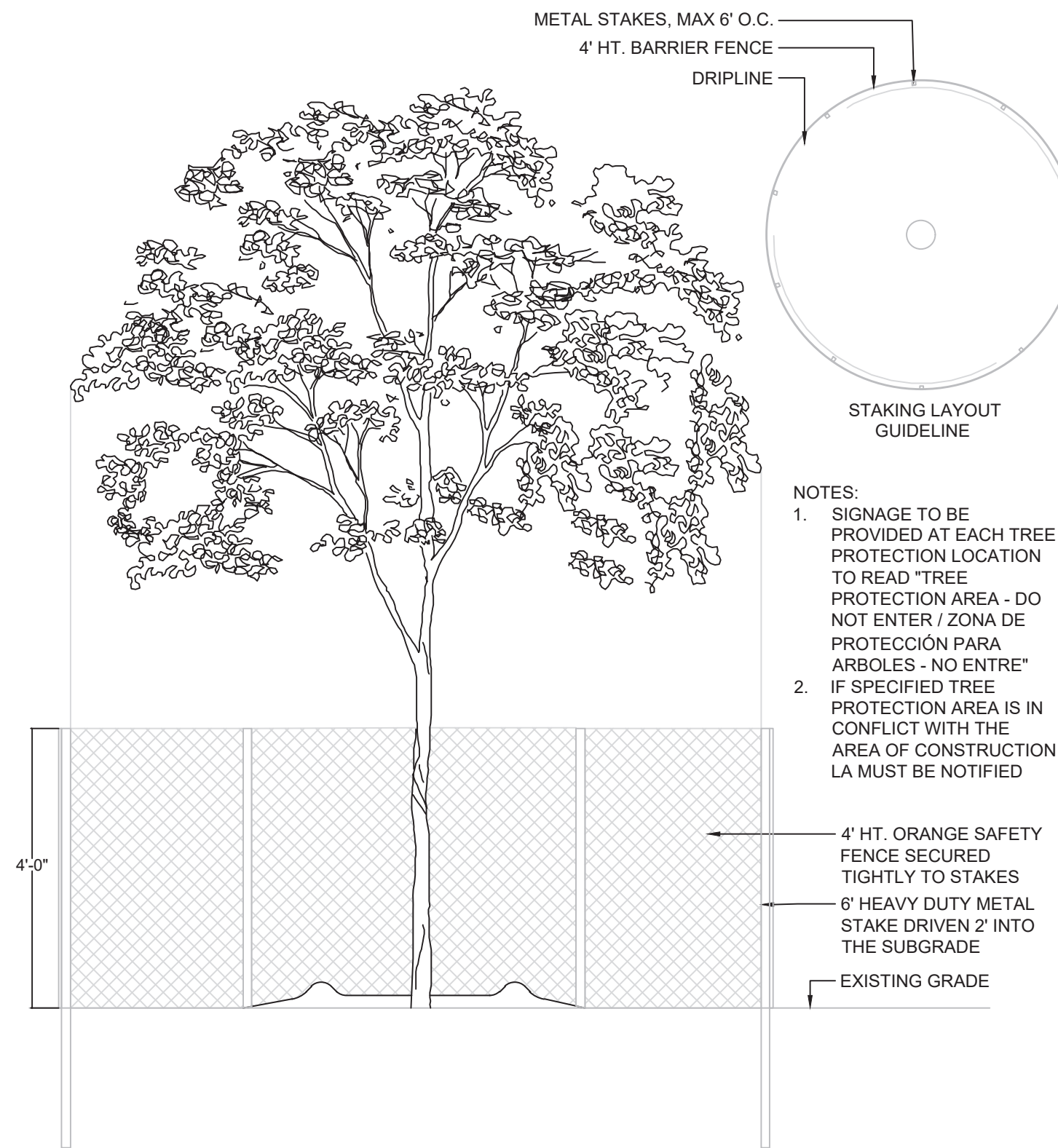
20.5-4 (8) PLANT MATERIAL AND MULCH PROVIDED FOR COVERAGE OF ALL NON-PAVED AND NON-BUILT AREAS. OVER 50% OF AREA COVERED WITH LIVE PLANT MATERIAL.

NOTE: OWNER RESPONSIBLE FOR MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPE.

* NO HERITAGE TREES ON SITE, ALL EXISTING TREES TO BE REMOVED, RELOCATED, OR PRESERVED ARE LESS THAN 20 CALIPER INCHES

LANDSCAPE NOTES:

- CONTRACTOR IS REQUIRED TO FOLLOW THESE LANDSCAPE NOTES, DETAILS AND SPECIFICATIONS.
- ALL PLANT MATERIAL SHALL MEET ANSI Z60.1 AMERICAN STANDARD FOR NURSERY STOCK.
- ALL PLANT BEDS SHALL BE DRESSED WITH 3" LAYER OF MULCH UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- CONTRACTOR SHALL VERIFY AND MARK ALL EXISTING UTILITIES PRIOR TO INSTALLATION.
- ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS. ANY MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE TO RECEIVE THE LANDSCAPE ARCHITECT'S APPROVAL OF ALL PLANT BED LAYOUTS AND TREE LOCATIONS PRIOR TO INSTALLATION. IF PLANT MATERIAL IS INSTALLED PRIOR TO LANDSCAPE ARCHITECT'S APPROVAL, CONTRACTOR WILL BE SUBJECT TO RELOCATING THE MATERIAL AT THE LANDSCAPE ARCHITECT'S REQUEST AND THE CONTRACTOR'S OWN EXPENSE.
- INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL SHRUBS SHALL BE PLANTED 1-1/2" AND TREES 2-1/2" ABOVE GRADE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLANT HEALTH IN ON-SITE SOILS.
- CONTRACTOR SHALL INSTALL AND / OR AMEND TOPSOIL IN ALL PROPOSED BED AREAS TO MEET ASTM D5268 STANDARDS. PERFORM SOIL TESTING PRIOR TO CONSTRUCTION AS NEEDED TO MEET STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING. GRADING SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- SOIL SHALL BE FREE FROM CONSTRUCTION DEBRIS.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN TAKE OFFS AND QUANTITIES. THE QUANTITIES ON THE PLANT LIST SERVE ONLY AS A GUIDE TO THE OWNER AND L.A. THIS INCLUDES SOD AND MULCH QUANTITIES OF WHICH THE CONTRACTOR SHALL BE HELD TO BID QUANTITIES. IN THE EVENT OF A CONFLICT BETWEEN QUANTITIES REPRESENTED ON THE PLAN VS. QUANTITIES SHOWN ON THE PLANT LIST, THE PLAN SHALL CONTROL.
- CONTRACTOR SHALL MAINTAIN TREES IN A STRAIGHT AND PLUMB POSITION FOR ONE YEAR. CONTRACTOR SHALL STAKE ALL TREES IF REQUIRED BY THE JURISDICTION.
- PRIOR TO REMOVAL OF ANY TREES, THE TREES TO BE RETAINED SHALL HAVE PROTECTIVE TREE BARRIERS, SEE EXISTING TREE PROTECTION - FENCING DETAIL.
- SUCCESSFUL BIDDER SHALL LOCK UP ALL MATERIALS IMMEDIATELY AFTER CONTRACT ASSIGNMENT. PLANTS SHALL BE HELD DURING THE PERIOD FROM CONTRACT TO INSTALLATION TO ALLOW ADDITIONAL GROWTH. ALL PLANTS WILL BE REQUIRED TO BE FULL AND HEALTHY. CONTRACTOR SHALL ARRANGE FOR PLANT APPROVAL PRIOR TO DELIVERY, EITHER BY SAMPLES. PHOTOS, OR NURSERY VISITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR WARRANTY OF HEALTH OF PLANTS IN ON-SITE SOILS. IF, DURING DIGGING, CONTRACTOR DISCOVERS WATER-LOGGED, CLAYEY, COMPACTED OR SIMILARLY POORLY DRAINED SOILS, IT SHOULD BE BROUGHT TO THE ATTENTION OF OWNER/LANDSCAPE ARCHITECT FOR REMEDIAL ACTION.
- CONTRACTOR SHALL ANTICIPATE THE FIRST FIVE FEET AROUND BUILDING PERIMETER WILL BE COMPACTED AND FOUNDATION BEDS SHOULD BE TILLED AND IMPROVED TO SUSTAIN VIGOROUS, HEALTHY PLANT GROWTH.



EXISTING TREE PROTECTION - FENCING



204 MAIN ST, STE 125
TRUSSVILLE, AL 35173
205.478.5388

REVISION

NO	DATE	DESCRIPTION

EXPRESS OIL CHANGE

EXPRESS OIL CHANGE & TIRE ENGINEERS

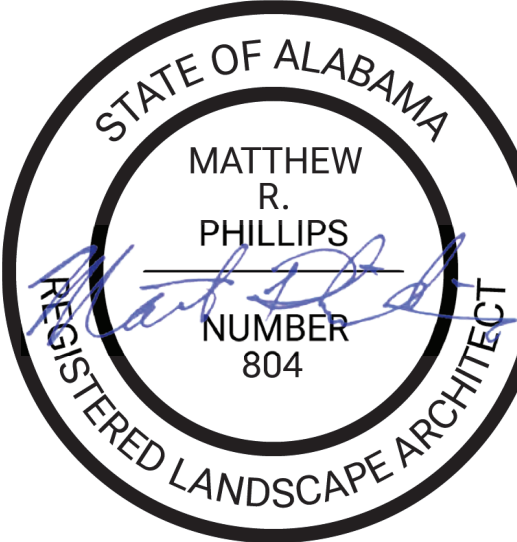
1880 SOUTHPARK DR.
BIRMINGHAM, AL 35244

DATE: 02/13/2025
DRAWN BY: GH
REVIEWED BY: MP
JOB NUMBER: 24037

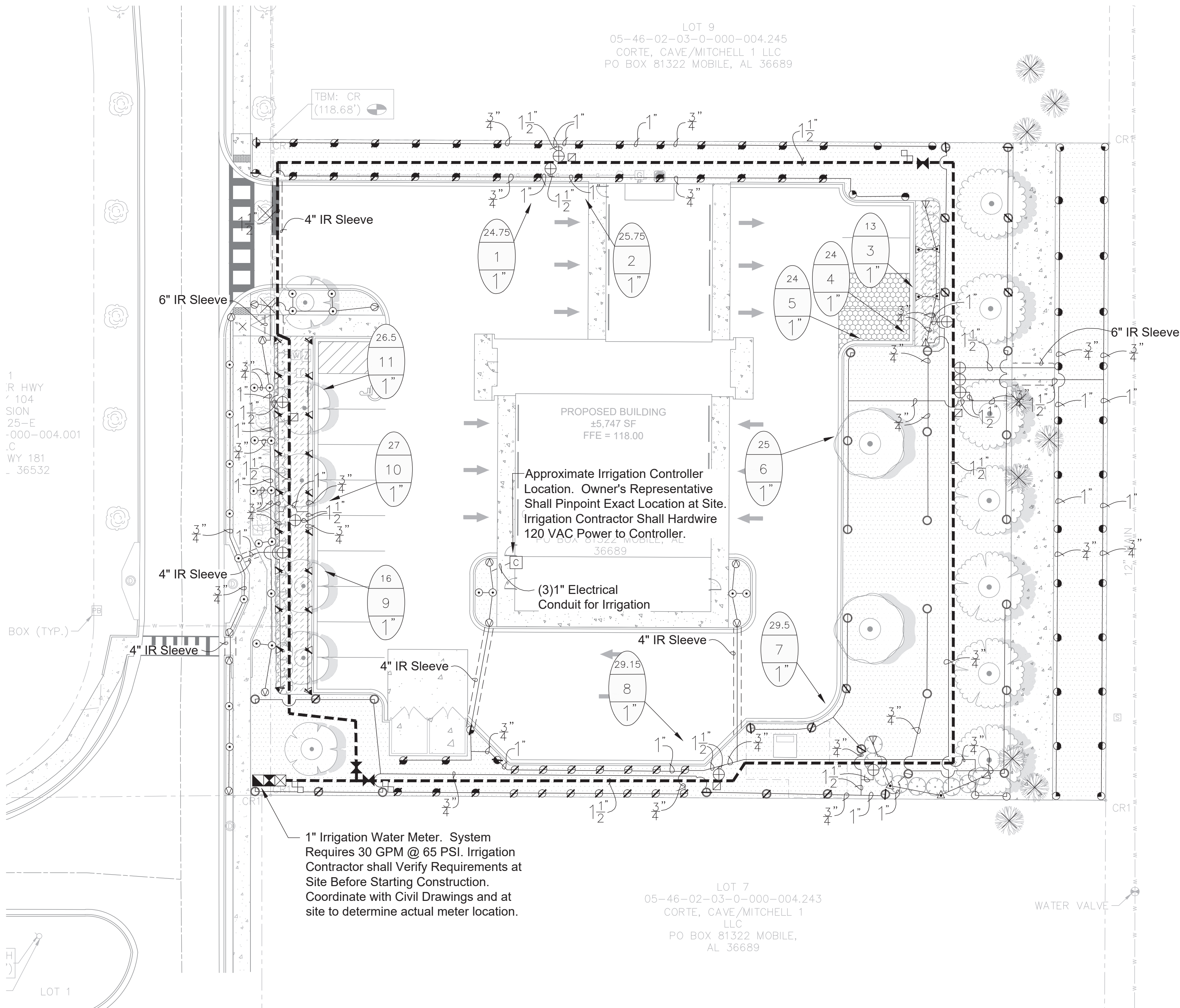
SHEET TITLE:
LANDSCAPE PLAN

LANDSCAPE CODE PLAN

ISSUE FOR PERMIT



LA5.00



GENERAL NOTES

- ALL MAINLINES TO HAVE A MINIMUM OF 18" OF COVER. (CLASS 200 PVC PIPE, CLASS 200 PVC FOR 4" AND LARGER).
- ALL LATERAL AND SUB-MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER. (CLASS 200 PVC PIPE).
- NO ROCKS, BOULDER, OR OTHER EXTRANEIOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
- ALL THREADED JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
- ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
- SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
- ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
- ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
- NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PRECEEDING WITH THE WORK.
- ALL TWO-WIRE CONTROL WIRES SHALL BE #14-2 MAXI CABLE. INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
- CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED, I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
- CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.E. VERIFY ROOT BALL SIZE FOR PLANTING.
- CONTRACTOR SHALL PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 3/4" PIPE 12 TIMES).
- CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
- ALL SPRINKLERS TO BE INSTALLED AS DETAILED ON PLANS.
- CONTRACTOR SHALL UTILIZE VALVE I.D. TAGS ON ALL REMOTE CONTROL VALVES.
- 24 VOLT WIRE SHALL BE COLOR CODED PER SEPARATE WIRE RUNS.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED GROUNDING EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH PAIGE WIRE GROUND PLATE ASSEMBLY.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FAULT GROUND AND LIGHTNING PROTECTION.
- CONTROLLER GROUNDING MUST BE AS PER RAIN BIRD WIRE GROUNDING REQUIREMENTS
- ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
 - TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVE SUPPLIED.
 - TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
 - TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
- SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING ELECTRIC VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
- CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
- CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURB OR WALKS.
- PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
- IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
- A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED FOR SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
- PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODE OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REDESIGN COSTS FOR NON-COMPLIANCE.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST)
 - 2-HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
 - 24-HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
- IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLAN, 8-1/2"X11" LAMINATED SHEET(S), TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER. TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

IRRIGATION LEGEND

1" WATER METER, SYSTEM REQUIRES 30 GPM @ 65 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.

MANUAL DRAIN VALVE. SCH 80 PVC TRUE UNION BALL VALVE. DETAIL-E.

WATTS #LF909-M1-QT-1-1-1/2", 1-1/2" REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER. DETAIL-F.

WINTERIZATION ASSEMBLY. DETAIL-M.

RAIN BIRD ESP-LXD CONTROLLER. 50 TOTAL STATIONS, 2-WIRE/DECODER BASED MODULAR CONTROLLER, FOUR PROGRAMS, PLASTIC, WALL MOUNTED. DETAIL-J.K.O. IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS RAIN/FREEZE SENSOR FOR EACH CONTROLLER.

RAIN BIRD 150-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1-1/2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE. MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-1011TURF). DETAIL-A.

RAIN BIRD 100-PEB PLASTIC ELECTRIC REMOTE CONTROL VALVE, 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE. MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-1011TURF). DETAIL-A.

RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 12' RADIUS, FULL-3.0 GPM, HALF-1.5 GPM, QUARTER-0.75 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 10' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" POP-UP LAWN SPRAY SPRINKLER, 8' RADIUS, FULL-1.2 GPM, HALF-0.6 GPM, QUARTER-0.3 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 2.0 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1806-SAM, 6" LAWN END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 15' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 12' RADIUS, FULL-3.0 GPM, HALF-1.5 GPM, QUARTER-0.75 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 10' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SPRAY SPRINKLER, 8' RADIUS, FULL-1.2 GPM, HALF-0.6 GPM, QUARTER-0.3 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 9' X 18' RADIUS, 2.0 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB SIDE STRIP SPRAY SPRINKLER, 4' X 30' RADIUS, 1.5 GPM, 30 PSI. DETAIL-B.

RAIN BIRD 1812-SAM, 12" HI-POP SHRUB END STRIP SPRAY SPRINKLER, 4' X 15' RADIUS, 1.0 GPM, 30 PSI. DETAIL-B.

HUNTER INDUSTRIES MP ROTATOR SERIES 3000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 30' RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 40 PSI, DETAIL-C.

HUNTER INDUSTRIES MP ROTATOR SERIES 2000, MOUNTED ON RAIN BIRD 1806-SAM SPRINKLER IN LAWN, 20' RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 40 PSI, DETAIL-C.

RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE. CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-L.

MAINLINE PIPE: 1-1/2" SIZE IF NOT NOTED. CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS.

SCH 80 PVC TRUE UNION BALL VALVE, SIZED SAME AS MAINLINE, MOUNTED IN CARSON VALVE BOX, DETAIL-D.

IRRIGATION SLEEVE: CLASS 200 PVC, SIZE NOTED ON PLAN. DETAIL-H.

LATERAL LINE PIPE: CLASS 200 PVC, SIZE NOTED.

ELECTRICAL CONDUIT SLEEVE.

NOTES:

- ALL SPRINKLER TO BE MOUNTED ON MARLEX ELLS OR UNITIZED SWING JOINTS (AS SPECIFIED ON DETAILS).
- CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
- ALL TWO-WIRE CABLE TO BE MINIMUM SIZE OF 14-2 MAXI-CABLE
- ALL TWO-WIRE CABLE TO BE INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
- ALL ELECTRICAL CONDUITS OPENINGS TO BE FOAM SEALED.
- ALL WIRE SPLICES TO BE MADE WITH 3M DBR/Y-6 CONNECTORS MOUNTED IN A MINIMUM OF 10" CARSON VALVE BOX
- ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.
- LSP-1 SURGE ARRESTORS SHALL BE INSTALLED EVERY 300' OR EVERY 6 DECODERS (WHICHEVER IS SHORTER) ALONG TWO-WIRE PATH. LSP-1 SURGE ARRESTORS SHALL ALSO BE INSTALLED AT ALL TERMINAL ENDS OF TWO-WIRE CABLE PATHS (STAR CONFIGURATION). REFER TO DETAIL-N.
- INSTALLATION CONTRACTOR SHALL ADHERE TO ALL MANUFACTURER SPECIFICATIONS FOR TWO-WIRE CONTROL SYSTEM INSTALLATION (WIRE SIZING, WIRE LENGTH OF RUNS, GROUNDING, ETC).

TYPICAL VALVE INDICATOR

28.5
10
1 1/2
GALLONS PER MIN.
STATION NUMBER
VALVE SIZE



204 MAIN ST, STE 125
TRUSSVILLE, AL 35173
205.478.5388

REVISION

NO	DATE	DESCRIPTION

EXPRESS OIL CHANGE

EXPRESS OIL CHANGE & TIRE ENGINEERS

1880 SOUTHPARK DR.
BIRMINGHAM, AL 35244

DATE: 02/13/2025

DRAWN BY: ICS

REVIEWED BY: ICS

JOB NUMBER: 24037

SHEET TITLE:

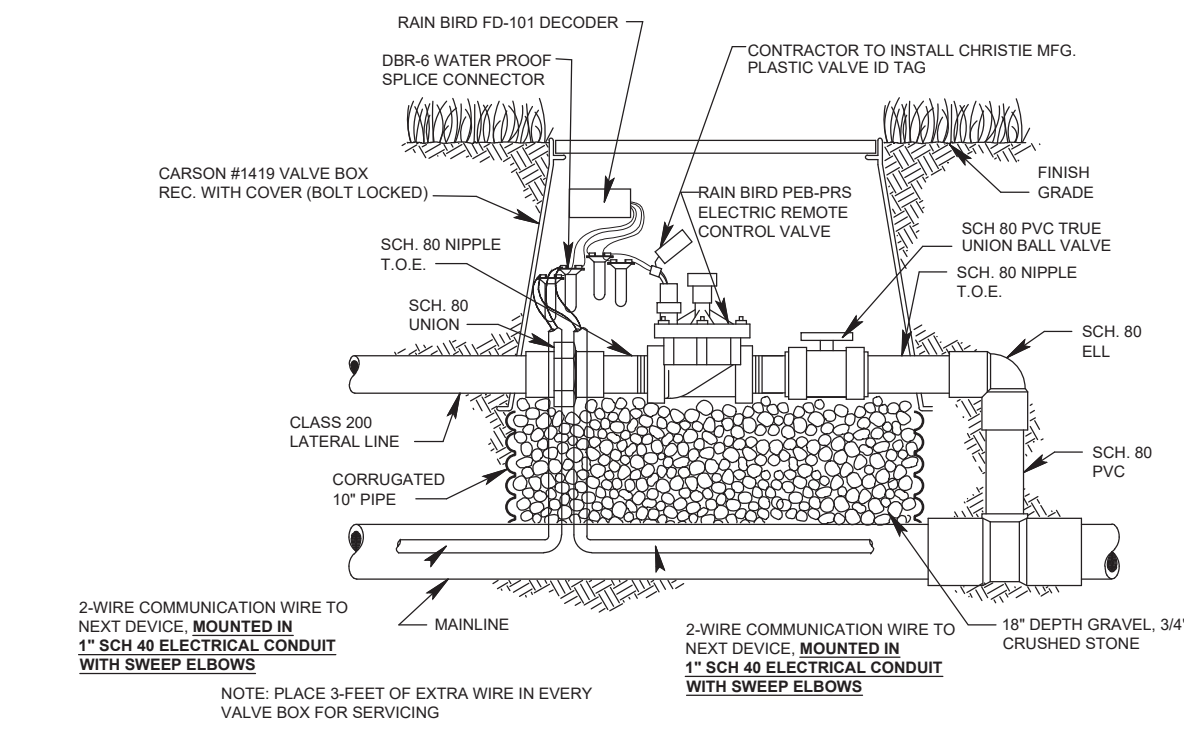
IRRIGATION PLAN

LANDSCAPE CODE PLAN

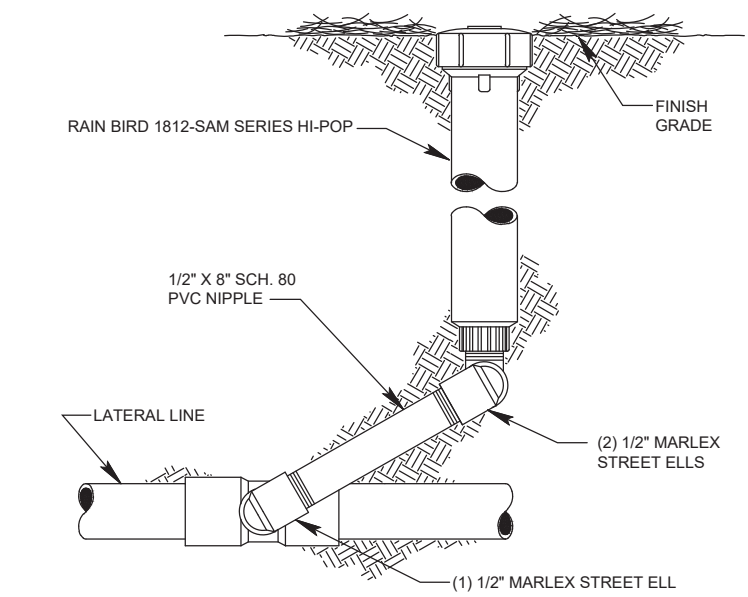
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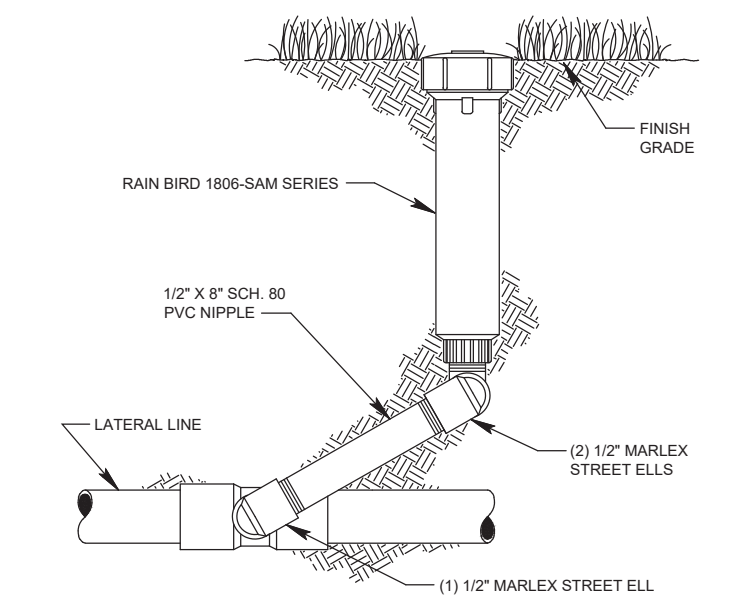
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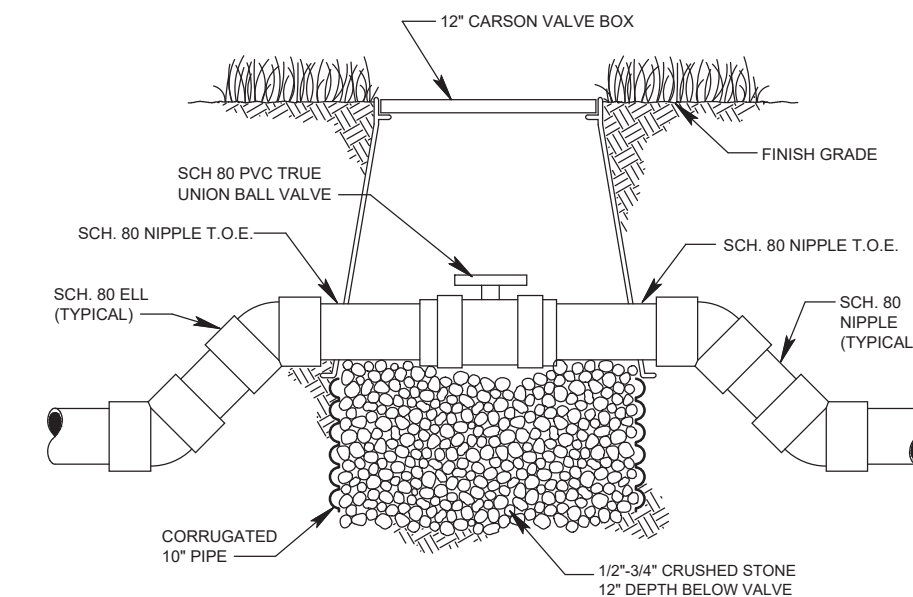
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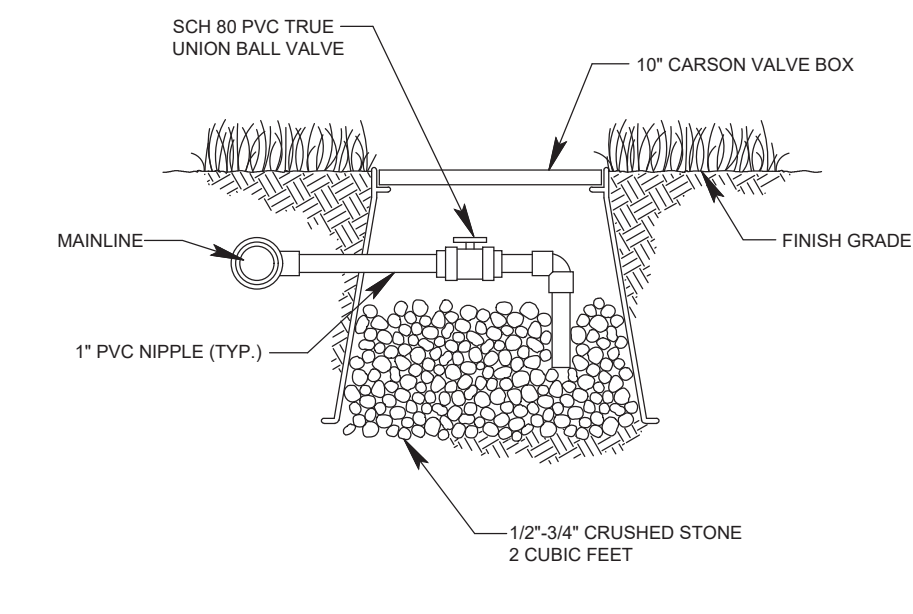
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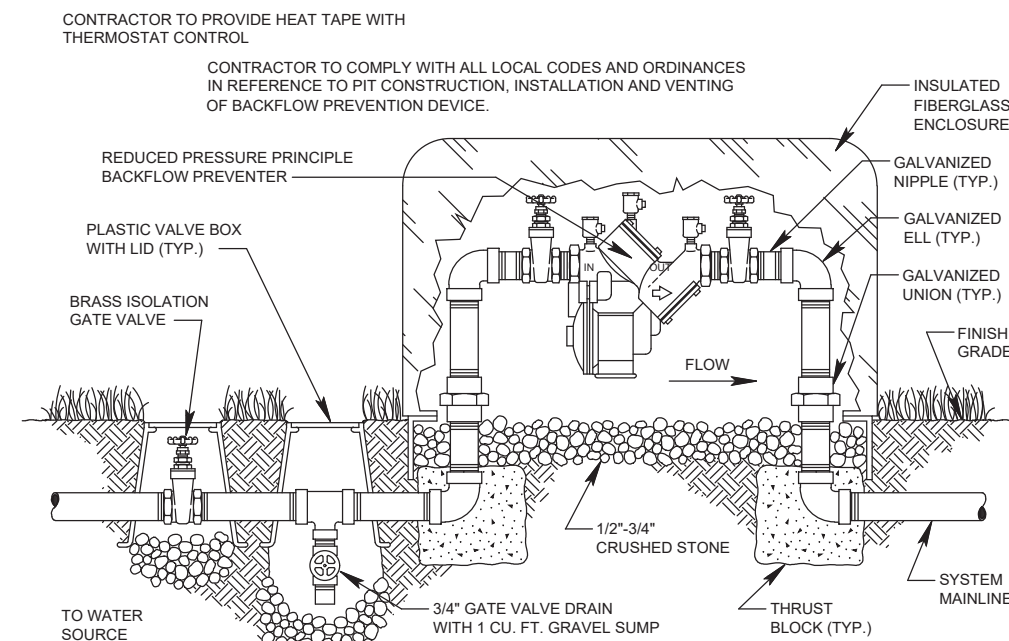
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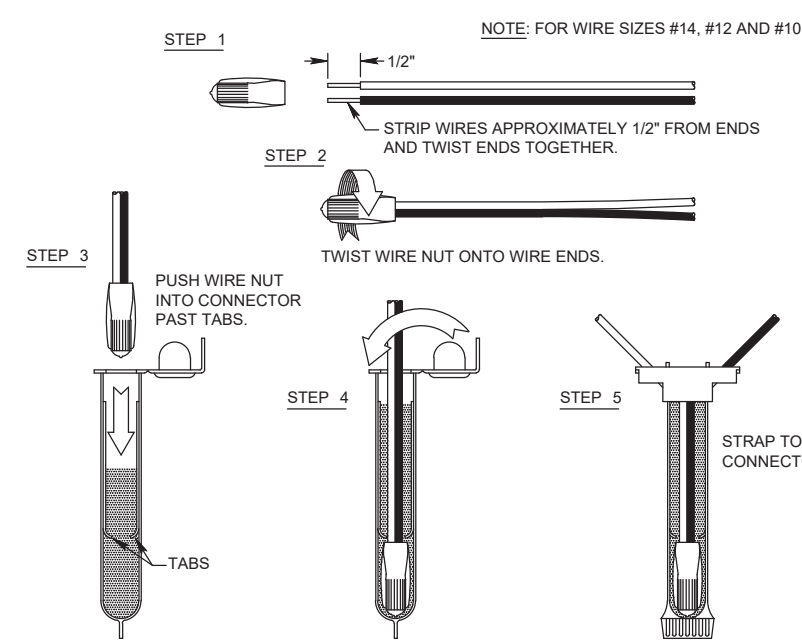
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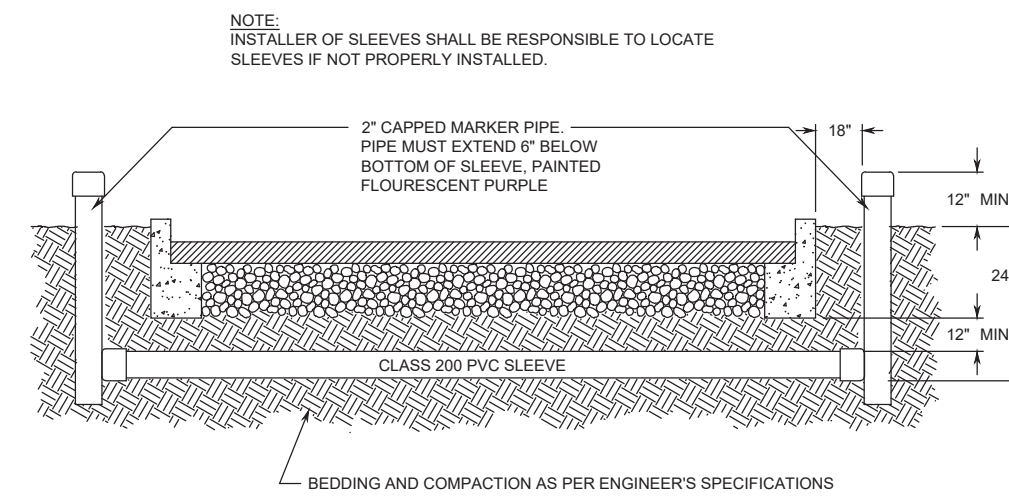
E MANUAL DRAIN VALVE
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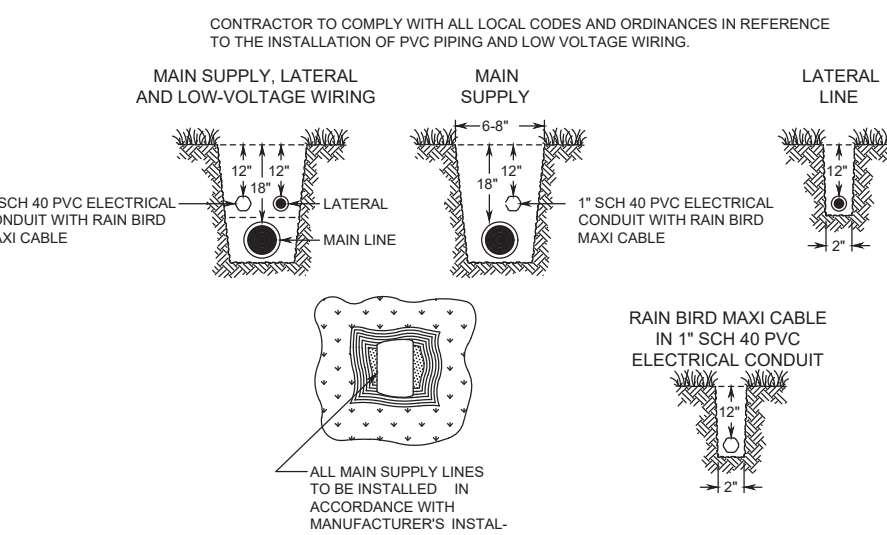
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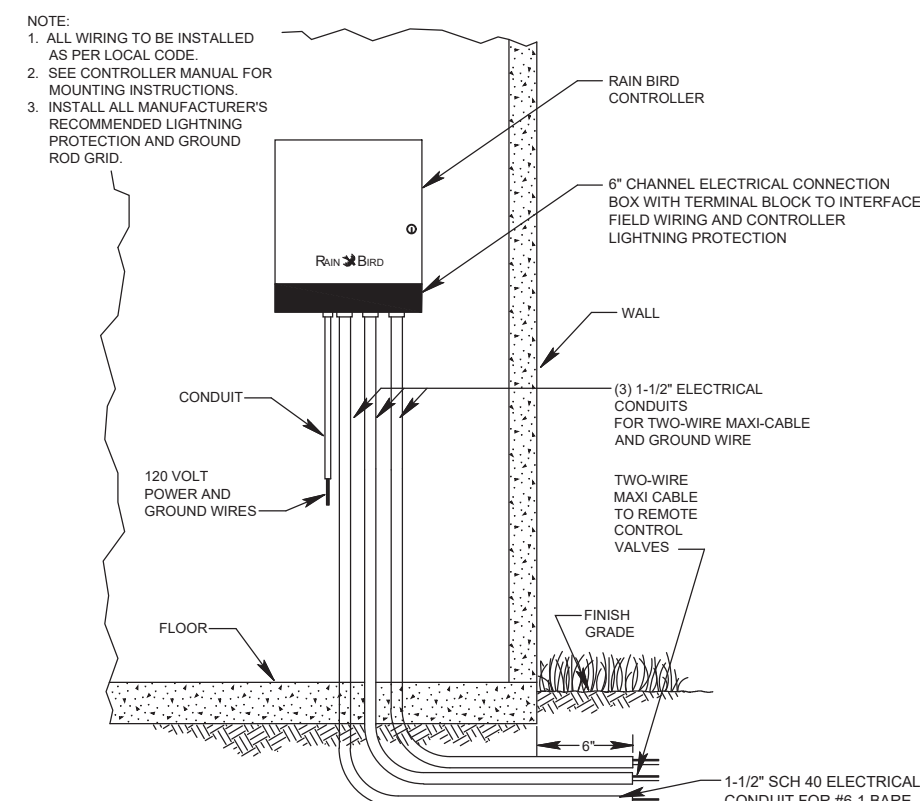
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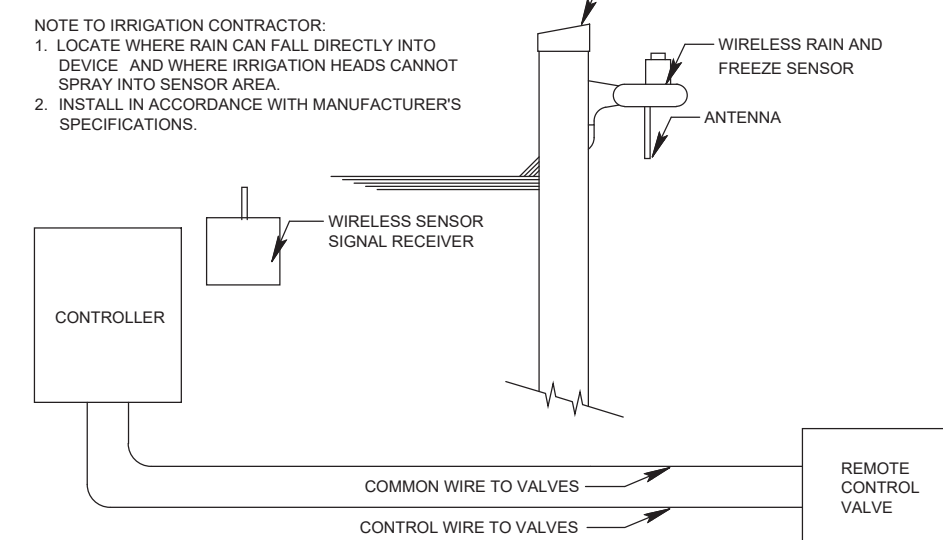
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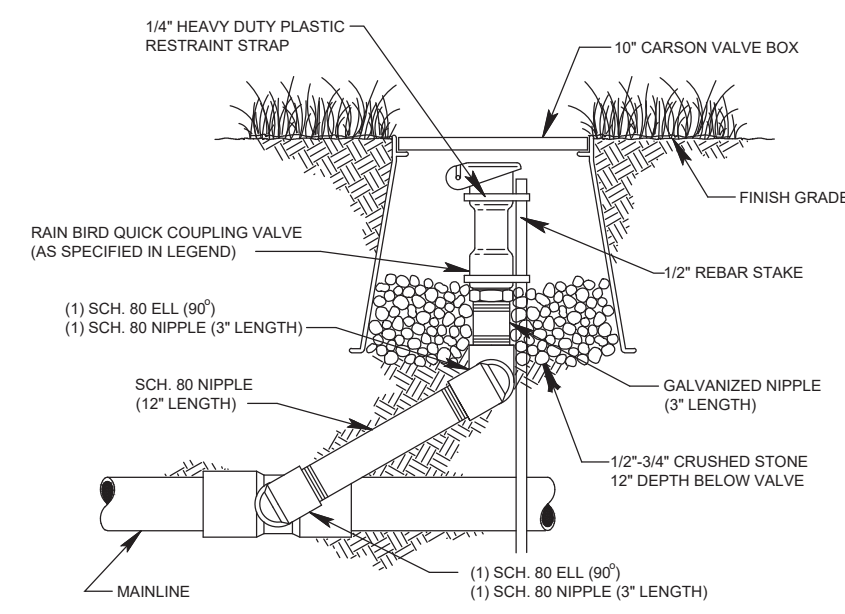
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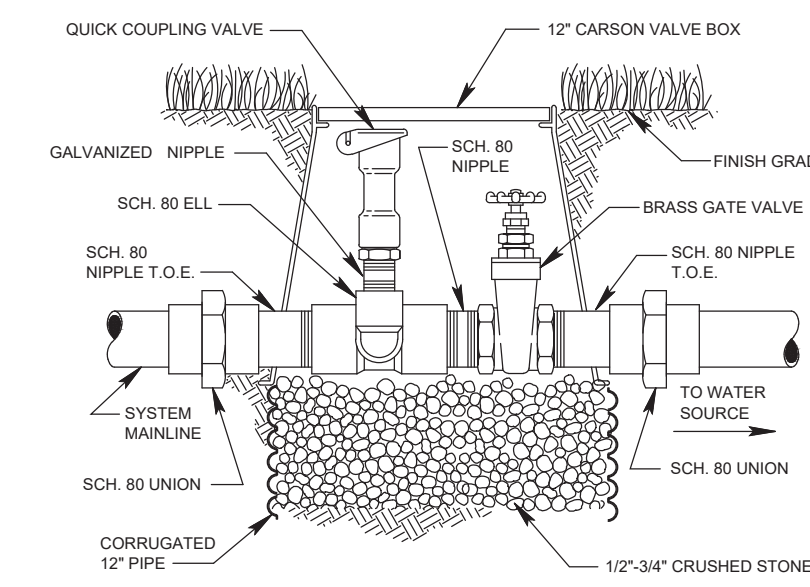
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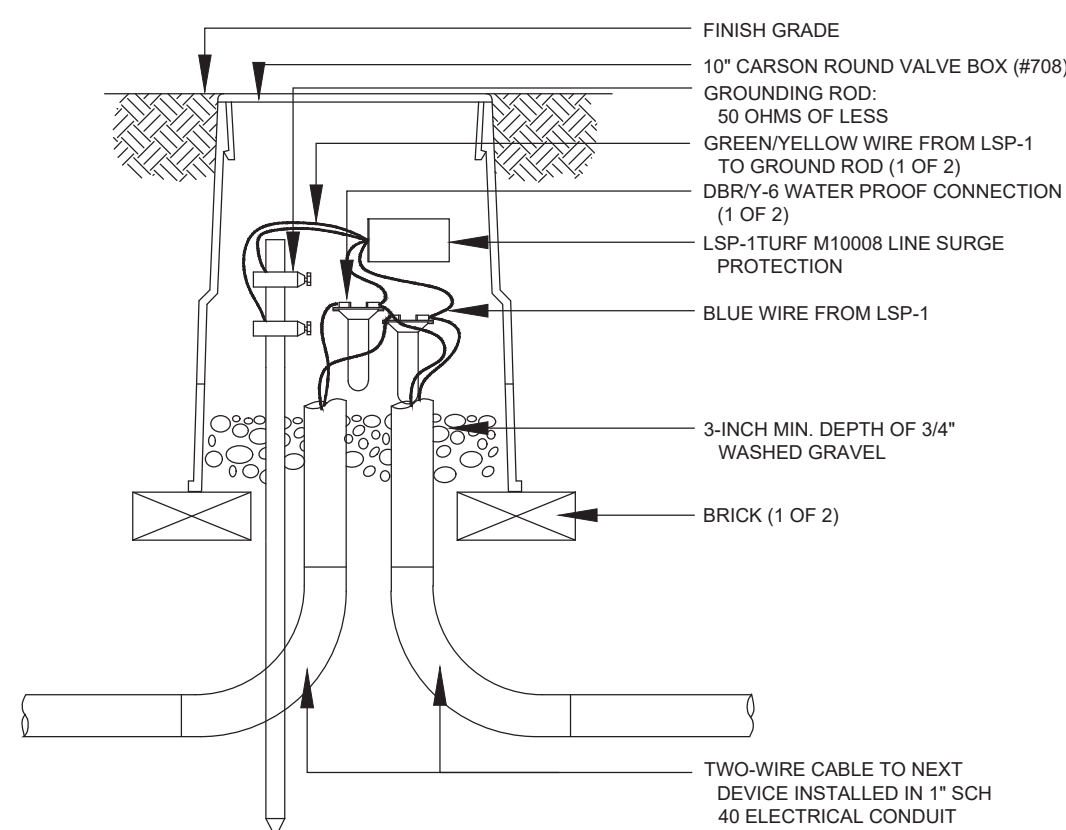
K RAIN/FREEZE SENSOR
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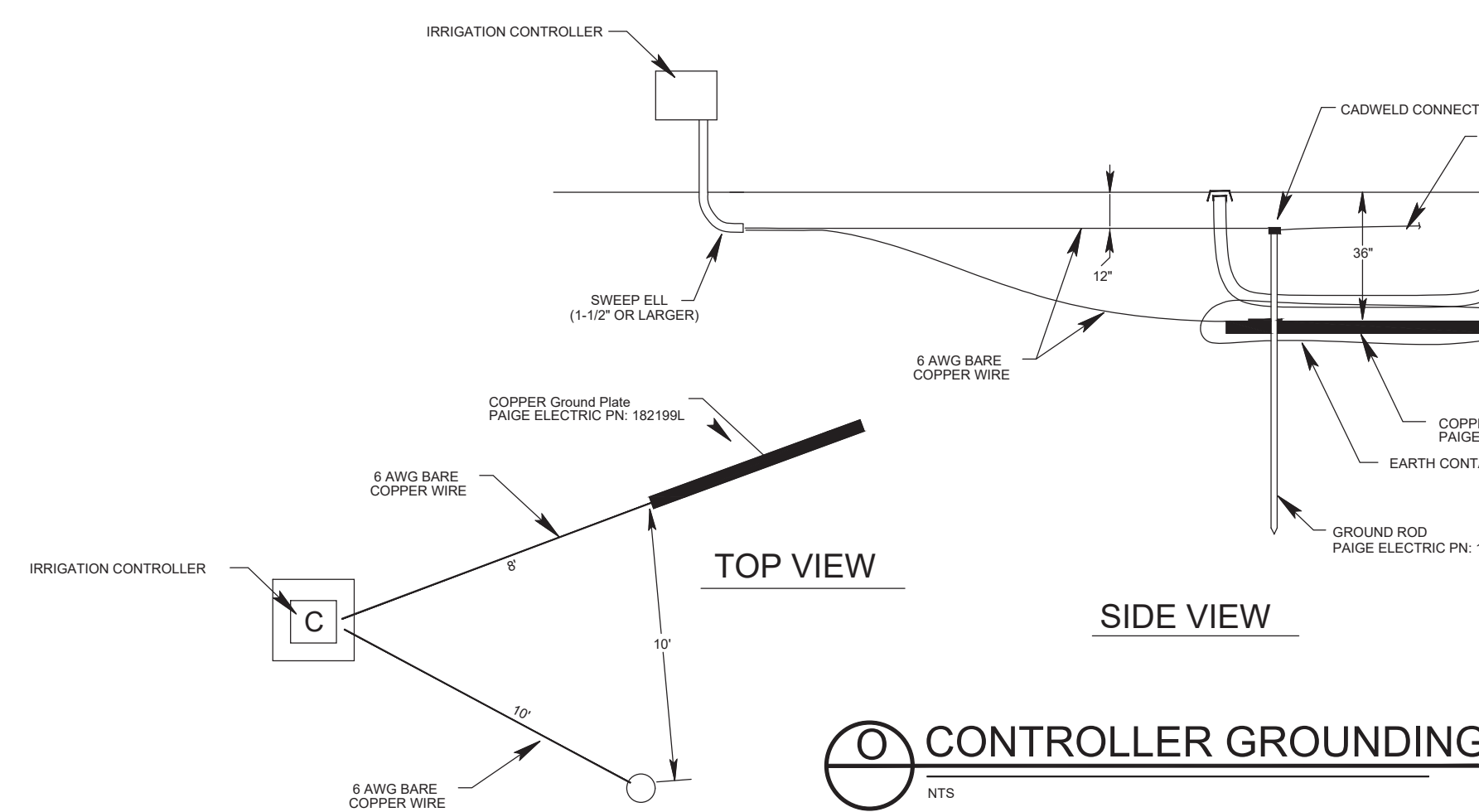
L QUICK COUPLING VALVE
NTS



M WINTERIZATION ASSEMBLY
NTS



N SURGE PROTECTION
TO TWO-WIRE PATH
NTS



O CONTROLLER GROUNDING
NTS



P LAWN ROTOR
NTS



204 MAIN ST, STE 125
TRUSSVILLE, AL 35173
205.478.5388

REVISION		
NO	DATE	DESCRIPTION

EXPRESS OIL CHANGE

EXPRESS OIL CHANGE & TIRE ENGINEERS

1880 SOUTHPARK DR.
BIRMINGHAM, AL 35244

DATE: 02/13/2025
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JOB NUMBER: 24037

SHEET TITLE:
IRRIGATION DETAILS

LANDSCAPE CODE PLAN

ISSUE FOR PERMIT



LA6.01

UNDERGROUND IRRIGATION SYSTEM

PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

- A. The sprinkler system shall include sprinklers, valves, piping fittings, controller, wiring, all of sizes and types as shown on the drawings and specified. The system shall be constructed to grades and conform to areas and locations as shown on the drawings.
- B. Sprinkler lines shown on the drawings are essentially diagrammatic. Spacing of the sprinkler heads or quick coupling valves are shown on the drawings and shall be exceeded only with written permission of the Designer.
- C. Unless otherwise specified or indicated on the drawings, the construction of the sprinkler system shall include the furnishing, installing, and testing of all mains, laterals, risers and fittings, sprinkler heads, gate valves, control valves, controllers, electric wire, controls, backflow preventers, enclosures, and other necessary specialties and the removal and/or restoration of existing improvements, excavating and backfill, and all other work in accordance with the plans and specifications a required for a complete system.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: Irrigation Contractor shall have successfully completed five (5) projects similar in material, size, scope and complexity to that indicated for this Project that have resulted in construction with a record of successful in-service performance. This requirement includes Pump installation Contractor.
 - 1. Firm Experience Period: Five (5) years of experience
 - 2. Field Foreman Experience: Five (5) years of experience with installing firm.
- B. Conference: Before any work is started a conference shall be held between the Contractor and the Owner concerning the work under this contract.
- B. The Contractor shall maintain continuously a competent superintendent, satisfactory to the Owner, on the work during progress with authority to act or him in all matter pertaining to the work.
- C. It is the Irrigation Contractor's responsibility to coordinate and cooperate with the other Contractors to enable work to proceed rapidly and efficiently.
- D. The Contractor shall confine his operations to the area to be improved and to the areas allotted him by the Designer and General Contractor for material and equipment.
- E. Contractor shall take all necessary to protect the existing site conditions and vegetation.

1.3 SUBMITTALS

- A. General: Submit in accordance with Shop Drawings, Product Data, and Samples.
- B. Shop Drawings and Equipment Product Information:
 - 1. Prior to purchasing materials, submit product information on all sprinkler heads, automatic valves, quick coupling valves, controller, and pipe to be used on the project.
 - 2. Contractor shall review drawings and data to supply actual precipitation rates and times for each zone in maintenance package.
 - 3. Prior to trenching, Contractor shall submit proposed trenching equipment to Designer for approval.
- C. Record Drawings and Instructions
 - 1. Upon completion of installation, Contractor shall produce as-built drawings in Autocad 2017 format and furnish one set of reproducible and one set of printed record drawings showing all sprinkler heads, valves, drains, and pipelines to scale with dimensions. These drawings shall have dimensions from easily located stationary points (cross measured) as they relate to all valves, mainlines, and wire. Clearly note all approved substitutions of size, material, etc. Complete, concise instruction sheets and parts lists covering all operating equipment and weathering techniques shall be bound into folders and furnished to the Owner in three (3) copies. Submission of this information is a requirement for final acceptance.

1.4 SITE CONDITIONS

- A. The Contractor shall examine the site, plans and specifications (i.e. system requirements).
- B. It shall be the Contractor's responsibility to report in writing to the Designer any deviations between drawings, specification, and actual site conditions. Failure to do so prior to the installing of equipment shall be done at the Contractor's expense.
- C. Adjustment of the sprinkler heads and automatic equipment will be done by the Contractor, upon completion of installation, to provide optimum performance.
- D. After completion, testing, and acceptance of the system, the Contractor shall verbally instruct the Owner's personnel in the operation and maintenance of the system. All written instruction shall be included in the bound maintenance package as stated in Paragraph 1.3 - Submittals.

PART 2 - PRODUCTS

2.1 PIPE AND FITTINGS

- A. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes will be permitted, but substitutions of larger size may be approved. All pipe damaged or rejected because of defects shall be removed from the site at the time of said rejection.
- B. All mainline piping (21/2") two and one half inches and larger will be equipped with gaskets.
- C. All fittings for mainline pipes two and one half (21/2") inches or larger will be equipped with gaskets.
- D. All piping downstream of electric valves, sizes (3) inches and smaller, shall be rigid unplasticized PVC 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, wrinkles and permanently marked with the manufacture's name, material, size, and schedule type. Pipe must bear the NFS seal.
- E. All mainline piping and underground piping under continuous pressure shall be rigid unplasticized PVC-Class 200 PSI working pressure extruded from virgin parent material of the type specified on the drawings. The pipe shall be homogeneous throughout and free from visible cracks, holes, and foreign materials, blisters, wrinkles and dents.
- F. All plastic fittings to be installed shall be molded fittings manufactured of the same material as the pipe and shall be suitable for solvent weld, slip joint ring tight seal, or screwed connections NO fitting made of other material shall be used except as hereinafter specified.
- G. Slip fitting socket tapers shall be so sized that a dry unsoftened pipe end conforming to these special provisions can be inserted no more than halfway into the socket. Plastic saddle and flange fittings will not be permitted. Only Schedule 80 pipe may be threaded.
- A. Fittings for all Mainline Piping 4" and larger shall be Harco Ductile Iron Gasketed Fittings. All mainline shall utilize approved thrust blocking and or restraints. Thrust Blocking and restraints to be installed as per manufacturer's recommendations for pipe type, pipe size and local environmental conditions.

2.2 SLEEVES

- A. All sleeves shall be Class 200 PVC or stronger. All sleeves are required at every crossing indicated on drawings. (Size Noted)
- B. All sleeves shall be installed under proposed pavement areas prior to subgrade and base construction.
- C. Sleeves shall have a minimum horizontal separation of 18" and a maximum of twenty-four (24) inch clearance below bottom of curb.
- D. All sleeves shall have a minimum horizontal separation of twenty-four (24) and maximum of thirty-six inches from center to center.
- E. Stub up sleeve pipe twelve (12) inches above ground surface and cap. Paint cap with fluorescent orange paint for easy identification.
- F. The location of all sleeves shown on the plans is schematic. The contractor shall make any adjustments necessary to accommodate existing vegetation, utilities, or other existing conditions.
- G. If the road crossings are designated as being bore locations the bore must be ample size to accommodate the size sleeve specified.

2.3 CONTROL SYSTEM

- A. The Controller shall be two-wire, decoder based system (as stated on plans).
- B. The automatic controllers shall be as shown on the plans and shall be made by the same manufacturer as valves.
- C. Install Rain Check or Mini-Click type shut off device to override the control timer in the event of rain.

2.4 CONTROL WIRE

- A. Two-wire Control wire shall be type UF, UL approved, for direct burial and shall be #14-2/MAXI (MINIMUM SIZE), solid copper, double jacked, insulated.
- B. Joining of underground wires shall be made with watertight connectors in valve boxes. No splicing between boxes is acceptable. Utilize 3M DBR/Y-6 Connections unless directed otherwise.
- C. All wire connections in valve boxes; first example shall stay open until the Designer approves.
- D. Install LSP-1 Surge Protection Device every 300 feet or every 6 decoders, whichever is less, with Ground Rod, on two-wire path and at end of wire run that terminates in field (star configuration).

2.5 IRRIGATION VALVES

- A. Zone Control Valves
 - 1. Globe-type diaphragm valves of normally closed design, with bronze bodies or heavy- duty plastic and covers (type noted on drawings). Operation accomplished by means of an integrally mounted heavy-duty 24 volt AC solenoid complying with National Electrical Code, Class II Circuit, solenoid coil potted in epoxy resin within a plastic-coated stainless steel housing. Solenoids shall be completely waterproof, suitable for direct underground burial. Provide a flow stem adjustment in each valve.
 - 2. To be installed with Single Station Decoder (as specified on plans).

2.6 VALVE BOXES

- A. All valves shall be installed in thermoplastic valve access boxes of the size required to permit access to the valve. Valve boxes shall include black thermoplastic locking covers. Manufacturer - Carson or approved equal.
- B. All valve boxes shall be installed on at least a two (2) cubic foot gravel base to provide foundation and drainage.
- C. All valve box elevations shall be ½" below finished grade.

2.7 THRUST BLOCKS

- A. Place one cubic ft. of concrete for each inch of pipe diameter for thrust block. Thrust shall not allow vertical or horizontal movement of pipe in any direction unless otherwise noted on design. Thrust blocking shall be provided on all piping three (3) inch diameter and larger.

2.8 DRIP IRRIGATION

- A. Drip irrigation equipment shall be as specified on plans (emitter types, emitter flow rates, etc).

PART 3 - EXECUTION

3.1 EXCAVATION AND BACKFILL

- A. Trenches for pipe sprinkler lines shall be excavated of sufficient depth and width to permit proper handling and installation by any other method the Contractor may desire if approved by the Owner, pipe manufacturer, and Designer. The backfill shall be thoroughly compacted and evened off with the adjacent soil level. Selected fill dirt or sand shall be used if soil conditions are rocky. In rocky areas the trenching depth shall be two (2) inches below normal trenching depth to allow for this bedding. The fill dirt or sand shall be used in filling (4) inches above the pipe. The remainder of the backfill shall contain no lumps or rocks larger than three (3) inches. The top twelve (12) inches of backfill shall be topsoil, free of rocks, subsoil, or trash. Any open trenches or partially backfilled trenches left overnight or left unsupervised shall be barricaded to prevent undue hazard to the public.
- B. The Contractor shall backfill in six (6) inch compacted lifts as needed to bring the soil to its original density.
- C. In the spring following the year of installation, the Contractor shall repair any settlement of the trenches by bringing them to grade with topsoil, and seeding with the existing lawn type(s). Watering and maintenance of the repaired areas shall be the Owner's responsibility.

3.2 INSTALLATION OF PLASTIC PIPE

- A. Plastic pipe shall be installed in a manner that permits expansion and contraction as recommended by the manufacturer.
- B. Plastic pipe shall be cut with a handsaw or hacksaw with the assistance of a square in sawing vice or in a manner so as to ensure a square cut. Burrs at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained.
- C. All plastic-to-plastic joints shall be solvent weld joints or slip seal joints. Only the solvent recommended for the pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer. The Contractor shall assume full responsibility for the correct installation.
- D. The joints shall be allowed to set at least twenty-four (24) hours before pressure is applied to the system on PVC pipe.

3.3 CONTROLLER AND ELECTRICAL CONNECTIONS

- A. All electrical connections shall conform to the National Electrical Code, latest edition.
- B. Control wires installed beneath walks, drives, or other permanent surfaces shall be placed in sleeves.
- C. Wires shall be spliced only at valve boxes.
- D. Leave twenty-four (24) inch loop of wire at each valve for expansion/contraction and servicing.
- E. Controllers and valves shall be from the same company e.g. (Rain Bird, Toro or approved equal).
- F. 120 VAC electrical power supply to the controller location shall be supplied by others.

3.4 FLUSHING AND TESTING

- A. After all new sprinkler piping and risers are in place and connected for a given section and all necessary division work has been completed and prior to the installation of sprinkler heads all control valves shall be opened and a full head of water used to flush out the system.
- B. Sprinkler main shall be pressure tested as follows:
 - 1. Two (2) hour pressure test at 1.5 times the system operating pressure
 - 2. Twenty four (24) hour pressure test at the system operating pressureIf leaks occur, repair and repeat the test until no leaks occur (pressure does not drop). Give Designer twenty-four hours notice prior to testing.
- C. Testing of the system shall be performed after completion of the entire installation and any necessary repairs shall be made at the Contractor's expense to put the system in good working order before final payment by the Owner.
- D. Adjustment of the sprinkler heads, and automatic equipment, will be done by the Contractor upon completion of installation to provide optimum performance. Minor adjustments during the guarantee period will be made by the Owner.
- E. After completion, testing, and acceptance of the system, the Contractor will instruct the Owner's personnel in the operation and maintenance of the system.

3.5 CLEAN UP AND PROTECTION

- A. During irrigation work, Contractor shall keep project site clean and orderly
- B. Upon Completion of Work, clear grounds of debris, superfluous materials and all equipment. Remove from site to satisfaction of the Owner's Representative.

3.6 WINTERIZING THE SYSTEM

- A. Contractor's responsibility to winterize the irrigation system the first winter following Substantial Completion of the Project.

3.7 INSPECTION

- A. Periodic Inspections will be made by the Landscape Architect/Owner's Representative to review the quality and progress of the work. Work found to be unacceptable must be corrected within a timely mater (to be determined by Owner's Representative). Remove rejected materials promptly from the project site.
- B. It will be the responsibility of the Irrigation Contractor to provide a reliable communication system (i.e. Two way radios or remote radio control activation system) for Substantial Completion and all periodic inspections.

PART 4.0 - CODES, PERMITS, WARRANTY, AND GUARANTEE

4.1 CODES AND ORDINANCES

- A. All materials, installation parameters, and operations shall conform to all applicable codes and ordinances. It is the Contractor's responsibility to investigate and follow all regulations. Contractor is responsible to verify applicable codes and ordinances prior to submitting bid. Before bid submittal, it is the Contractor's responsibility to notify the Irrigation Consultant/Designer at least 5 days before bid submittal, of any changes due to code or ordinance discrepancies. If the Contractor does not comply with this process and notification, the Contractor shall be responsible for the necessary installation change and redesign costs for non-compliance.

4.2 PERMITS AND FEES

- A. The Contractor shall obtain, at his expense, all required permits and shall pay all required fees. Any penalties imposed due to failure to obtain any permit or pay any fee shall be the responsibility of the Contractor.

4.3 WARRANTY AND GUARANTEE

- A. The Contractor shall furnish a certificate of warranty registration and a written guarantee of work and materials for a one year period from the date of final acceptance of the Irrigation System by the Owner and the Designer.

END OF SECTION



204 MAIN ST, STE 125
TRUSSVILLE, AL 35173
205.478.5388

REVISION

NO	DATE	DESCRIPTION

EXPRESS OIL CHANGE

EXPRESS OIL CHANGE & TIRE ENGINEERS

1880 SOUTHPARK DR.
BIRMINGHAM, AL 35244

DATE: 02/13/2025

DRAWN BY: ICS

REVIEWED BY: ICS

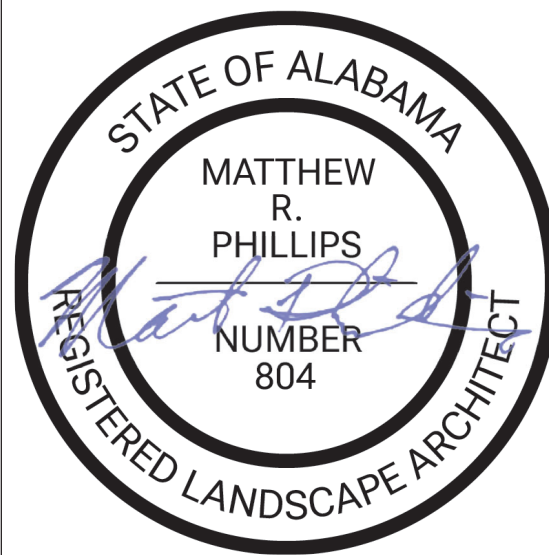
JOB NUMBER: 24037

SHEET TITLE:

IRRIGATION PLAN

LANDSCAPE CODE PLAN

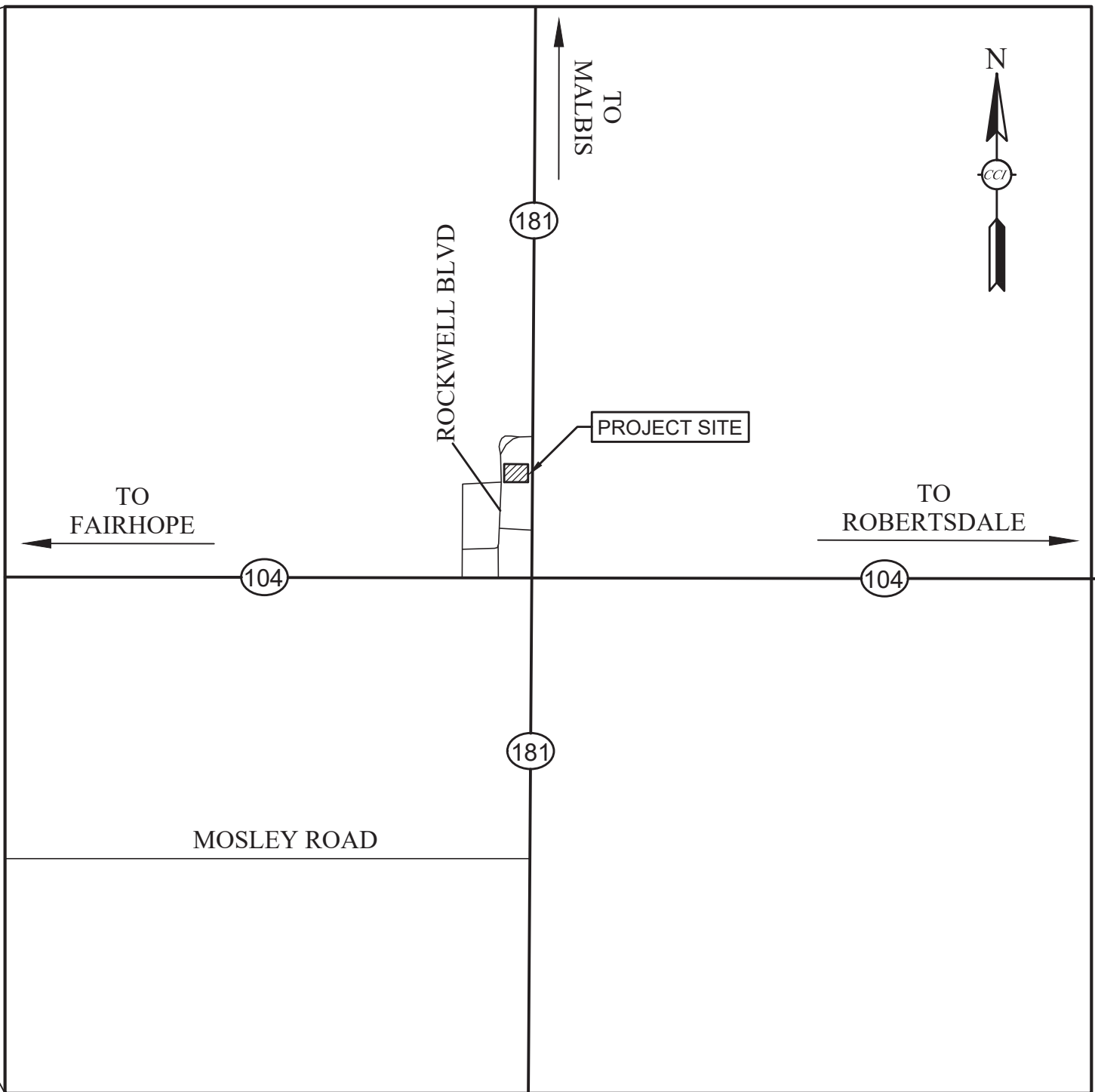
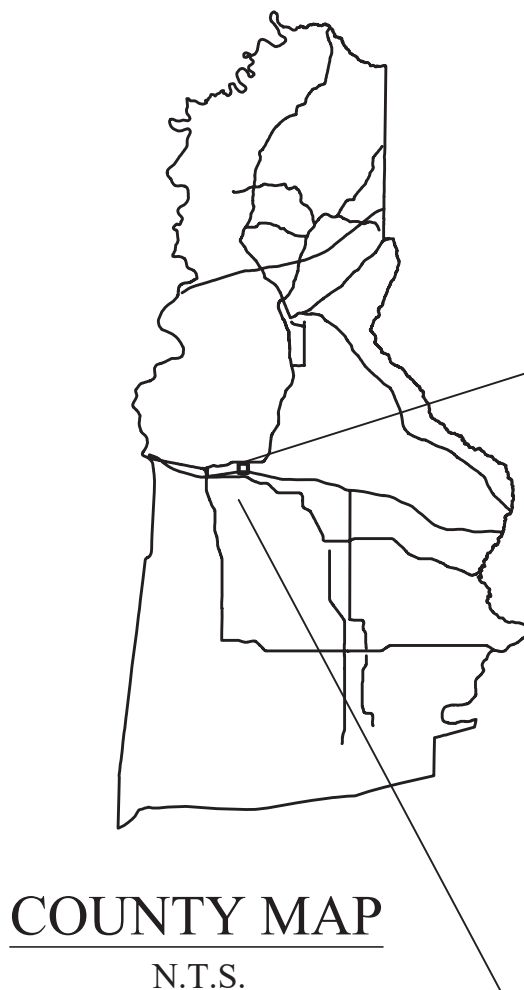
ISSUE FOR PERMIT



LA6.02

SR-181 GRADING & DRAINAGE IMPROVEMENT PLAN

FOR EXPRESS OIL CHANGE
MILE POST 9.37 TO MILE POST 9.38
IN BALDWIN COUNTY



ADDRESS:
22179 STATE HIGHWAY 181
FAIRHOPE, AL 36532
PPIN: 626313
PARCEL NO.: 05-46-02-03-0-000-004.244
ZONING DISTRICT: BG-2 GENERAL BUSINESS DISTRICT

LIST OF CONTACTS

OWNER
EXPRESS OIL CHANGE & TIRE ENGINEERS
Phone: (205) 397-1142
Contact: Justin Duck
1880 Southpark Dr
Birmingham, Alabama 35244

ARCHITECT
AHO ARCHITECTS, LLC
Phone: (205) 983-6000
Contact: April Cain
1855 Data Dr, Suite 150
Hoover, Alabama 35244

FIRE PROTECTION
CITY OF FAIRHOPE
Phone: (251) 990-0123
Contact: Damon Beck
555 South Section Street
Fairhope, Alabama 36532

POWER DISTRIBUTION
RIVIERA UTILITIES
Phone: (251) 943-5001
Contact: Wes Abrams
413 East Laurel Avenue
Foley, Alabama 36535

CIVIL ENGINEERING
CIVIL CONSULTANTS, INC.
Phone: (205) 655-1991
Contact: Nicholas Ostrye, P.E.
3528 Vann Road, Suite 105
Birmingham, Alabama 35235

LANDSCAPE ARCHITECT
PLOT STUDIO
Phone: (205) 478-5388
Contact: Matt Phillips, PLA
204 Main Street, Suite 125
Trussville, Alabama 35173

SANITARY SEWER PROVIDER
CORTE, CAVE MITCHELL 1, LLC
Phone: (251) 666-2443
Contact: Frank Leatherwood III, PE
4830 Main Street, Suite G-212
Orange Beach, Alabama 36561

BUILDING INSPECTOR
CITY OF FAIRHOPE
Phone: (251) 990-0116
Contact: Eddie Tucker
161 North Section Street
Fairhope, Alabama 36533

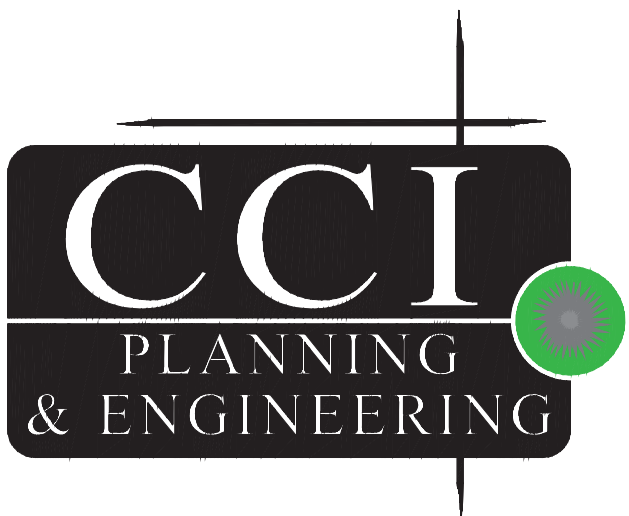
COMMUNICATIONS
HIGHSTREAM FIBER, INC.
Phone: (251) 752-7138
Contact: Russ Reynolds

SURVEYOR
POLY SURVEYING
Phone: (251) 666-2010
Contact: J. Brett Orrell, P.L.S.
5588 Jackson Road
Mobile, Alabama 36619

GEOTECHNICAL ENGINEER
TERRACON
Phone: (251) 443-5374
Contact: Benjamin G. Weinberg, P.E.
6215 Rangeline Road, Suite 115
Theodore, Alabama 36582

NATURAL GAS
FAIRHOPE PUBLIC UTILITIES
Phone: (251) 928-2136
Contact: Sid Grose
161 North Section Street
Fairhope, Alabama 36533

WATER PROVIDER
FAIRHOPE PUBLIC UTILITIES
Phone: (251) 928-2136
Contact: Jason Brown
161 North Section Street
Fairhope, Alabama 36533



3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
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ISSUED
FOR PERMIT
10/14/2024
C0.0

<u>SHEET NO.</u>	<u>SHEET NAME</u>
R0.0	COVER SHEET
R1.0	INDEX TO SHEETS AND NOTES
R1.0	HIGHWAY 181 GRADING & DRAINAGE PLAN & PROFILE
R2.0	HIGHWAY 181 EROSION & SEDIMENT CONTROL PLAN
R3.0	PROJECT DETAILS

THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL AND STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENT) DATED 2024 WHICH APPLY TO THIS PROJECT

<u>INDEX NO</u>	<u>DRAWING NO</u>	<u>DESCRIPTION</u>
61913	HW-614-SP	CONCRETE SLOPE PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE

1. ALL STRIPING WITHIN ALDOT ROW SHALL BE CLASS II THERMOPLASTIC AND COMPLY WITH THE LATEST EDITION OF ALDOT SPECIFICATIONS. STRIPING REMOVAL TO BE SUBSIDIARY OBLIGATION TO NEW STRIPING.
2. DRAINAGE FROM OFF PUBLIC ROW IMPROVEMENTS WILL NOT BE DIRECTED ONTO STATE ROW.
3. ALL WORK SHOWN OFF R.O.W. NOT PART OF THIS APPROVAL.
4. CONTRACTOR TO COORDINATE ALL NEW CONSTRUCTION w/ ALDOT, AND CITY OF FAIRHOPE.
5. NO ADVERSE EFFECTS ON DRAINAGE IN EITHER THE UPSTREAM OR DOWNSTREAM DIRECTIONS WILL BE CREATED BY THIS DEVELOPMENT.
6. NEW ROAD ACCESS NOT TO BE OPENED UNTIL INTERSECTION IMPROVEMENTS ARE COMPLETED OR UNTIL ALDOT APPROVES.
7. UTILITY WORK NOT A PART OF THIS ALDOT PERMIT APPROVAL.

1. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE 2009 EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. WORK SHALL ONLY TAKE PLACE BETWEEN 8:30AM AND 3:30PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE NOTED.
3. ALL WORK ON ALDOT ROW SHALL MEET OR EXCEED THE LATEST ALDOT STANDARDS AND SPECIFICATIONS.
4. RIGHT OF WAY MARKERS OR MONUMENTS SHALL NOT BE DISTURBED.
5. ALL CONTRACTORS MUST MEET OR EXCEED OSHA STANDARDS.
6. DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIALS SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC.
7. DAMAGE TO ANY EXISTING SIDEWALKS OR RAMPS AND NEW SIDEWALKS OR RAMPS MUST MEET ADA STANDARDS.
8. A COPY OF THE APPROVED PERMIT, PLANS, TCP, AND EROSION CONTROL MUST BE ON SITE ANY TIME WORK IS BEING PERFORMED.
9. CONTACT ALDOT DISTRICT OFFICE 48 HRS BEFORE STARTING WORK.
10. THE CONTRACTOR MUST NOTIFY ALDOT DAILY 30 MINUTES BEFORE WORK IS SCHEDULED FOR ANY LANE CLOSURES AND ROLLING ROAD BLOCKS. THE CONTRACTOR MUST NOTIFY ALDOT DAILY UPON COMPLETION OF SCHEDULED CLOSURES.

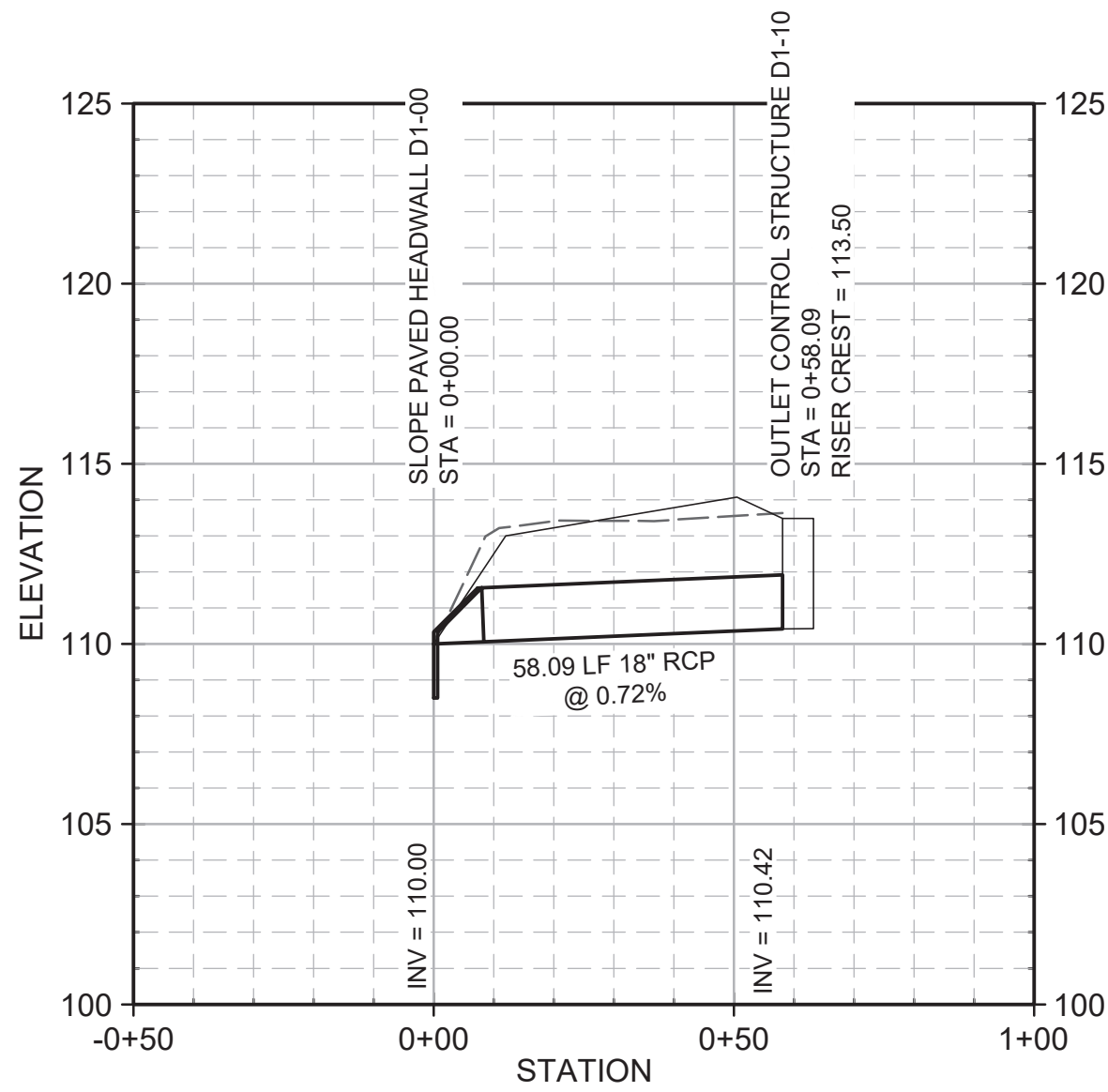
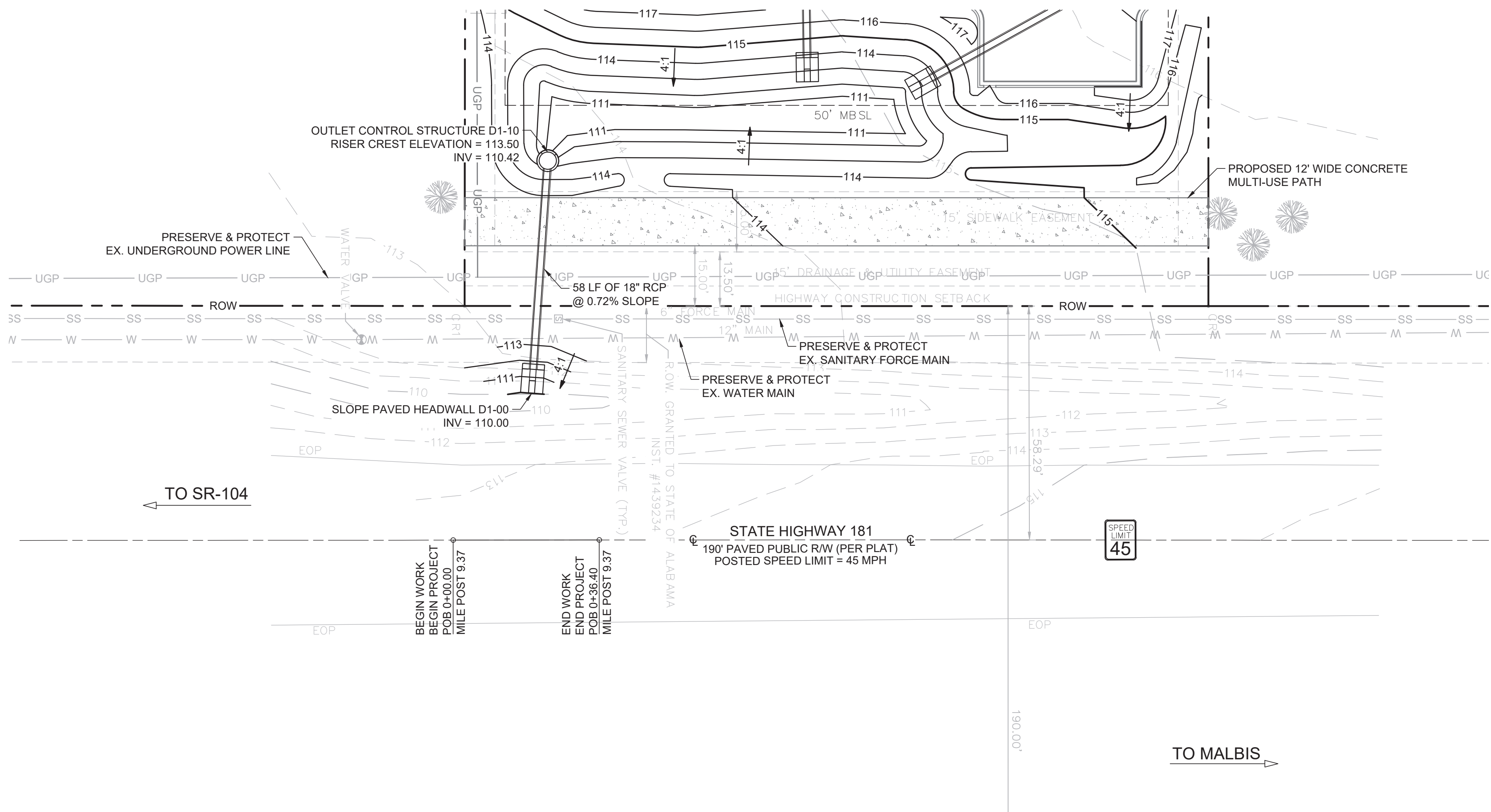
- a. LANE CLOSURES AND ALL UTILITY WORK WITHIN 2FT OF TRAVEL LANES.
LANE CLOSURES WILL ONLY BE IMPLEMENTED DURING THE HOURS OF 8:30 AM TO 3:30 PM, MONDAY- FRIDAY.
2. GROUND DISTURBANCES (INCLUDING NEW POLE INSTALLATION)
a. ALL DISTURBED AREAS SHALL BE RESODDED OR SEEDED IN ACCORDANCE WITH THE LATEST ADOT SPECIFICATIONS FOR GRASSING OR AS DIRECTED BY THE ADOT DISTRICT ADMINISTRATOR.
- b. BEST MANAGEMENT PRACTICES SHALL BE UTILIZED ON THE PROJECT.
- c. THE AMOUNT OF AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT IS 0.21 ACRES.
3. UNDERGROUND OR OPEN CUT EXCAVATION
a. ALL EXISTING UTILITIES, APPURTENANCES, DRAINAGE STRUCTURES, AND ACCESSORIES WITH DIMENSIONS FROM EDGE OF PAVEMENT AND RIGHT OF WAY ARE SHOWN ON THE PLANS.
- b. NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT OR UNATTENDED ON ROW UNLESS PROPERLY PROTECTED. TRENCHES OR EXCAVATIONS MUST BE FILLED, FENCED, COVERED, OR BARRICADED WHEN UNATTENDED.
- c. ALL PROPOSED UTILITIES SHALL MAINTAINED MINIMUM 24" VERTICAL AND HORIZONTAL CLEARANCE FROM ALL EXISTING UTILITES.

3. ALL WORK SHOWN SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS FOR THIS PROJECT AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THE SITE. CONTRACTOR WILL ONLY PERFORM CONSTRUCTION ACTIVITIES BASED ON PLANS PROPERLY ISSUED FOR CONSTRUCTION PURPOSES.
2. CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK ARE SECURED PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND BENCHMARKS. ALL PROPERTY PINS OR BENCHMARKS ELIMINATED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY CONTRACTOR'S LICENSED SURVEYOR AT NO EXPENSE TO OWNER.
4. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR THE ENGINEER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
5. CONTRACTOR SHALL FIELD VERIFY (REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS) ACTUAL (FINAL) LOCATION OF ALL UTILITY ENTRANCES, TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED, AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS TO THEIR FACILITIES.
6. CONTRACTOR SHALL COORDINATE THE INSTALLATION, ADJUSTMENT OR RELOCATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (GAS, WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS) SHALL BE IN PLACE PRIOR TO PLACEMENT OF BASE COURSE MATERIAL.
7. ALTA/NPS LAND TITLE SURVEY WAS PREPARED BY POLY SURVEYING (251) 666-2010. CIVIL CONSULTANTS, INC. WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY.
8. REFER TO LANDSCAPE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DIMENSIONS AND LOCATIONS OF IRRIGATION LINES & METERS, ETC.
9. THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPAIRED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
10. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE INSPECTED DAILY AND BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PROTECTIVE DEVICES AND FOR THE IMPLEMENTATION OF ALL SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO THE PROTECTION OF LIFE, PROPERTY, AND SITE IMPROVEMENTS; THE PROTECTION OF EXISTING UTILITY LINES AND STRUCTURES; AND THE PROVISION AND COORDINATION OF ALL TEMPORARY TRAFFIC CONTROL EFFORTS AND MEASURES.

- REFERENCE GENERAL AND LAYOUT NOTES.
2. ALL STORM PIPE SHALL BE EITHER:
 - A.) REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, B OR C WALL. CLASS OF PIPE SHALL BE A MINIMUM OF CLASS III. CIRCULAR PIPE JOINTS SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT, WHICH MUST BE SEALED WITH WATER-TIGHT RUBBER GASKETS CONFORMING TO ASTM C443.
 - B.) HIGH DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS, AND MEET THE REQUIREMENTS OF AASHTO M294 TYPE S AND AASHTO M252 TYPE S (SMOOTH INTERIOR, CORRUGATED EXTERIOR). PIPE SHALL BE INSTALLED PER THE REQUIREMENTS OF ASTM D2321 AND AASHTO SECTION 30.
3. ALL PIPE ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED TO ASSURE THE CONNECTION AT THE STRUCTURE IS WATER TIGHT.
4. ALL STORM SEWER MANHOLES AND RISERS SHALL BE PRECAST AND MEET THE SPECIFICATIONS OF ASTM C76.
5. ALL STORM SEWER MANHOLE LIDS OR GRATE INLETS IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE H-20 TRAFFIC BEARING LIDS.
6. ALL STORM SEWER MANHOLE LIDS SHALL BE LABELED "STORM SEWER".
7. ALL STORM DRAINAGE PIPE AND STRUCTURES SHALL BE CLEANED OF SILT, TRASH AND DEBRIS PRIOR TO DEMOLITION FROM THE SITE. NO OBJECTS LARGER THAN 1/2 INCH OR SEDIMENT ACCUMULATION GREATER THAN 1/2 INCH SHALL BE IN ANY STORM PIPE OR STRUCTURE AT TURNOVER TO OWNER.
8. CONTRACTOR IS TO BEGIN STORM DRAINAGE CONSTRUCTION FROM THE MOST DOWN STREAM POINT OF THE SYSTEM.
9. THE TOP RING OF ALL MANHOLE SECTIONS FOR CURB INLETS, YARD INLETS OR GRATE INLETS SHALL HAVE # 57 STONE, FILTER FABRIC, AND WEEP HOLES.
10. GRATE INLET SHALL BE EJ V5622-80 OR EQUIVALENT UNLESS OTHERWISE NOTED.
11. COMBINATION CURB INLETS SHALL BE EJ 703021 | 7030T1 | 7030M2 ASSEMBLY OR APPROVED EQUAL.

- REFERENCE NOTES.
2. EARTHWORK SHALL BE PERFORMED ON AN UNCLASSIFIED BASIS.
3. ALL PROPOSED SPOT ELEVATIONS SHOWN ADJACENT TO CURB ARE TO EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE NOTED.
4. GRADES SHOWN ARE FINISH GRADES. FOR SUBGRADE ELEVATIONS IN PAVED AREAS, REFERENCE SECTIONS AND DETAILS.
5. THE LOCATION AND ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, SHOULD NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND UTILITIES PRIOR TO CONSTRUCTION. ANY DEVIATIONS FROM PLAN INFORMATION SHOULD BE DISCUSSED WITH ENGINEER AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CALL APPROPRIATE UTILITY CONTACTS 48 HOURS PRIOR TO EXCAVATION IN AREAS WHERE UTILITIES MAY EXIST.
6. THE SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL, CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
7. THE SUBGRADE PREPARATION SHOULD CONSIST OF STRIPPING APPROXIMATELY 6 INCHES OF TOPSOIL, VEGETATION, ROOTMATT, AND SOFT OR YIELDING MATERIALS FROM THE 10-FOOT EXPANDED BUILDING AND 5-FOOT EXPANDED PAVEMENT LIMITS, AND 5 FEET BEYOND THE TOE OF STRUCTURAL FILLS. DEEPER TOPSOIL OR ORGANIC LADEN SOILS MAY BE PRESENT IN WET, LOW-LYING, AND POORLY DRAINED AREAS. IN WOODED AREAS, THE ROOT BALLS MAY EXTEND AS DEEP AS ABOUT 2 FEET AND WILL REQUIRE ADDITIONAL LOCALIZED STRIPPING DEPTH TO COMPLETELY REMOVE THE ORGANICS.
8. FILL SLOPES SHALL BE OVERFILLED AND THEN CUT BACK TO REQUIRED GEOMETRY.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE FINISHED GRADING INCLUDING PLACEMENT OF SOILS AS NECESSARY TO ACHIEVE THE FINISHED GRADES INDICATED ON THE GRADING PLANS. ALL SURFACES SHALL BE SMOOTH WITH PROPER TRANSITIONS BETWEEN GRADIENTS. ALL FINISHED TOPSOIL ELEVATIONS SHALL BE A MINIMUM OF 1" BELOW THE FINISHED ELEVATION OF ADJACENT WALKS AND BACK OF CURB UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL CAREFULLY ESTABLISH PROPER FINISHED GRADE ELEVATIONS IN THE FIELD SO AS TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND EXTERIOR MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT AND ANY OTHER MOISTURE SENSITIVE AREAS.
11. THE EXPANDED LIMITS OF THE PROPOSED CONSTRUCTION AREAS SHOULD BE WELL DEFINED, INCLUDING THE LIMITS OF THE FILL ZONES FOR BUILDINGS, PAVEMENTS, AND SLOPES, ETC., AT THE TIME OF FILL PLACEMENT. GRADE CONTROLS SHOULD BE MAINTAINED THROUGHOUT THE FILLING OPERATIONS.
12. AT THE END OF EACH WORK DAY, ALL FILL AREAS SHOULD BE GRADED TO FACILITATE DRAINAGE OF ANY PRECIPITATION AND THE SURFACE SHOULD BE SEALED BY USE OF A SMOOTH-DRUM ROLLER TO LIMIT INFILTRATION OF SURFACE WATER. DURING PLACEMENT AND COMPACTION OF NEW FILL AT THE BEGINNING OF EACH WORKDAY, THE CONTRACTOR MAY NEED TO SCARIFY EXISTING SUBGRADES TO A DEPTH ON THE ORDER OF 4 INCHES SO THAT A WEAK PLANE WILL NOT BE FORMED BETWEEN THE NEW FILL AND THE EXISTING SUBGRADE SOILS.
13. POSITIVE SITE DRAINAGE SHOULD BE MAINTAINED DURING EARTHWORK OPERATIONS IN AN EFFORT TO MAINTAIN THE INTEGRITY OF THE SITE SURFACE SOIL. WHEN WET, THE SITE SOILS MAY DEGRADE QUICKLY WITH DISTURBANCE FROM CONTRACTOR OPERATIONS AND WILL BE EXTREMELY DIFFICULT TO STABILIZE FOR FILL PLACEMENT. CONSEQUENTLY, THE CONTRACTOR SHOULD BE PREPARED TO IMPLEMENT AGGRESSIVE MECHANICAL OR CHEMICAL DRYING, DEPENDING UPON THE ACTUAL SITE CONDITIONS. IF POSSIBLE MASS GRADING FOR THE PROJECT SHOULD BE PERFORMED DURING THE DRIER SUMMER MONTHS TO HELP FACILITATE FAVORABLE MOISTURE CONDITIONS FOR THE SITE SOILS. IF WATER MUST BE ADDED TO RAISE THE MOISTURE CONTENT OF THE SOIL, IT SHOULD BE UNIFORMITY APPLIED AND THOROUGHLY MIXED INTO THE SOIL.
14. PRIOR TO FILL PLACEMENT OR OTHER CONSTRUCTION ON SUBGRADES, THE SUBGRADES SHOULD BE EVALUATED BY AN ON-SITE GEOTECHNICAL REPRESENTATIVE. THE EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOFROLLED WITH A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR SIMILAR CONSTRUCTION EQUIPMENT WEIGHING A MINIMUM OF 40 TONS. PROOFROLLING SHOULD BE TRAVERSED IN TWO PERPENDICULAR DIRECTIONS WITH OVERLAPPING PASSES OF THE VEHICLE UNDER THE OBSERVATION OF AN ON-SITE GEOTECHNICAL REPRESENTATIVE. THIS PROCEDURE IS INTENDED TO ASSIST IN IDENTIFYING ANY LOCALIZED YIELDING MATERIALS.

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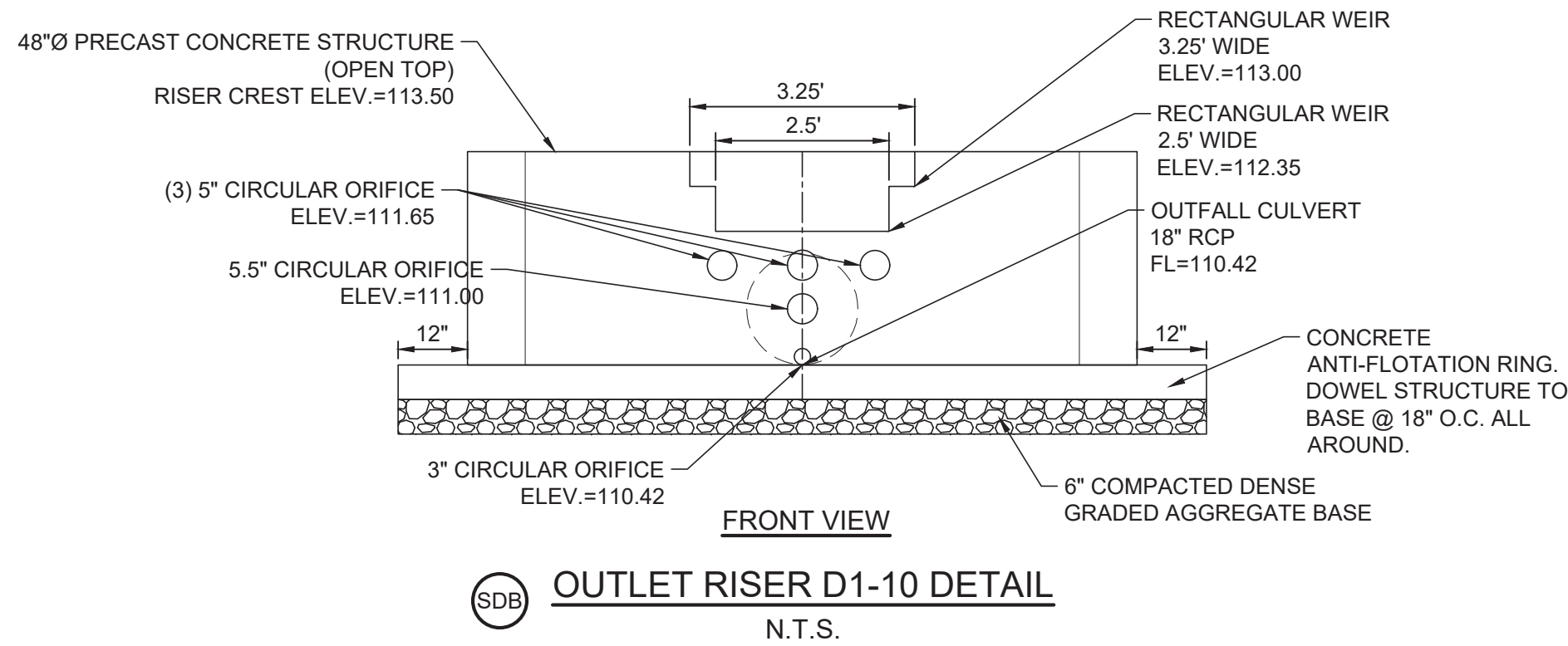
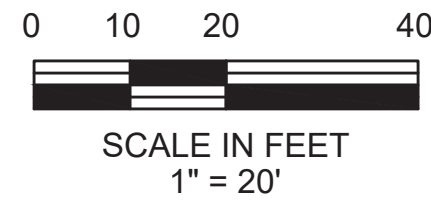
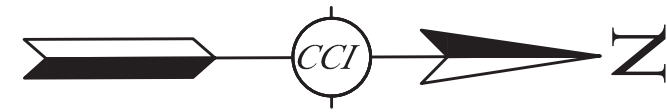


PROFILE D-1

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 30'

GRADING LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SLOPE IDENTIFIER
	HIGH POINT
	EXISTING

DRAINAGE LEGEND	
	STORM PIPE
	OUTLET CONTROL STRUCTURE
	SLOPE PAVED HEADWALL



CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



3528 Vann Road
Suite 105
Birmingham, AL 35235
Phone: (205) 655-1991
www.ccipe.com

CCI
PLANNING & ENGINEERING

ALABAMA
LICENSED
PROFESSIONAL
ENGINEER
NICHOLAS J. OSTRYE
AL REG. NO. 38782

ENGINEER-OF-RECORD
NICHOLAS J. OSTRYE, P.E.
AL REG. NO. 38782

TITLE: **HIGHWAY 181 GRADING & DRAINAGE PLAN & PROFILE**

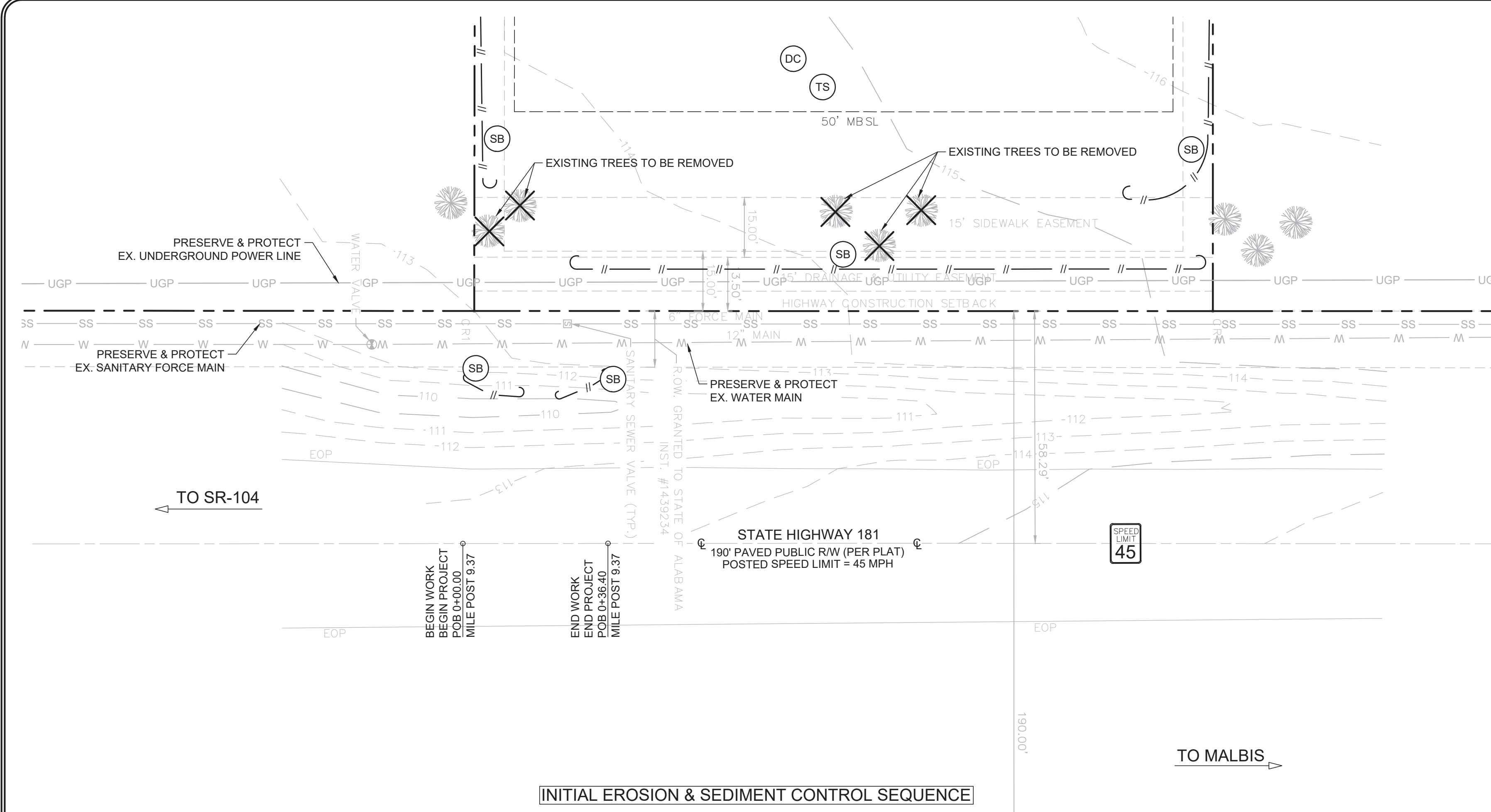
EXPRESS OIL CHANGE
FAIRHOPE, ALABAMA

FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

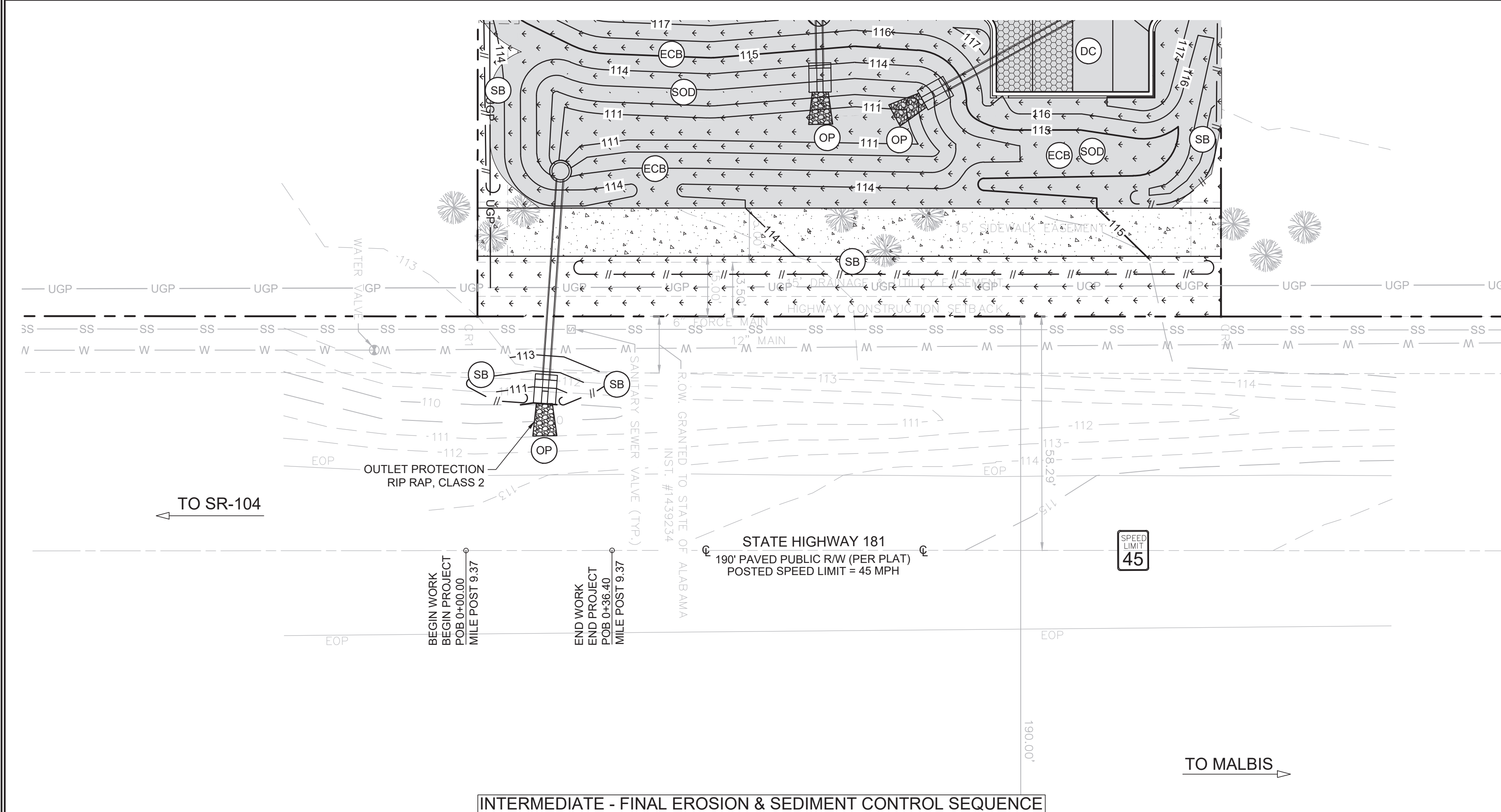
DATE: 10/14/2024
PROJECT NO.: EXPR0011
DESIGN BY: SAR
CHECKED BY: NJO
SCALE: 1" = 20'

NO.	FOR PERMIT	DESCRIPTION	REVISIONS	BY	DATE
0				SAR	10/14/2024

DRAWING NO. **R1.0**



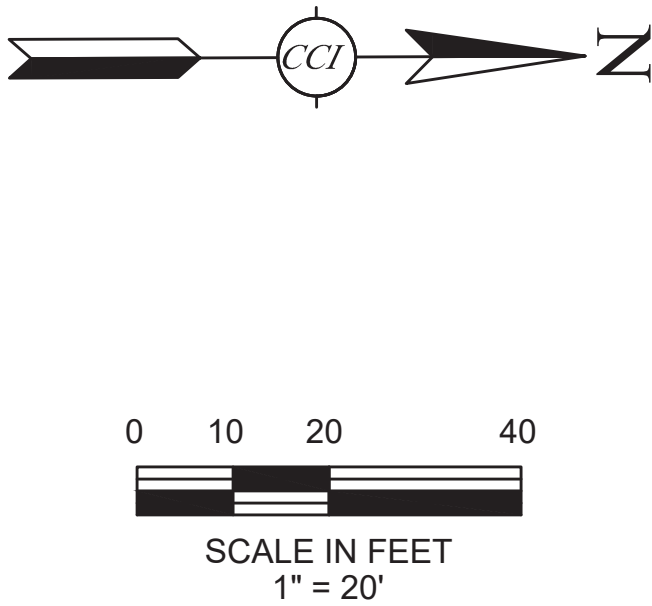
INITIAL EROSION & SEDIMENT CONTROL SEQUENCE



INTERMEDIATE - FINAL EROSION & SEDIMENT CONTROL SEQUENCE

EROSION CONTROL LEGEND

OP		OUTLET PROTECTION
SB		SEDIMENT BARRIER SILT FENCE, TYPE A
SOD		SOD (BERMUDA)
ECB		EROSION CONTROL BLANKET AMERICAN GREEN S150BN (OR APPROVED EQUAL)
DC		DUST CONTROL
TS		TEMPORARY SEEDING



SPECIAL NOTE

TRUCKS AND EQUIPMENT SHOULD UTILIZE WASHPAD OR CONSTRUCTION EXIT PAD WHILE SOILS ARE EXPOSED. ANY SEDIMENT TRACKED INTO ADJACENT BUSINESS AREAS OR ONTO ROCKWELL BLVD ARE TO BE CLEANED PRIOR TO END OF DAY.

INITAL EROSION CONTROL SEQUENCE

- SEE GENERAL EROSION & SEDIMENT CONTROL NOTES
- INSTALL TEMPORARY SEDIMENT BARRIER (SILT FENCE), INLET PROTECTION, CONSTRUCTION EXIT PAD AND CONCRETE WASHOUT AREA.
- INSPECT, MAINTAIN, MOVE AND REPAIR TEMPORARY SEDIMENT CONTROL DEVICES AS REQUIRED THROUGHOUT THE DURATION OF CONSTRUCTION.

INTERMEDIATE EROSION CONTROL SEQUENCE

- REMOVE SOFT, YIELDING OR UNSUITABLE MATERIAL.
- BEGIN GRADING FOR ROADWAYS AND PADS, MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
- PROVIDE INLET PROTECTION IMMEDIATELY FOLLOWING INLET INSTALLATION AND MAINTAIN WHILE SOIL SUBGRADE IS EXPOSED.

FINAL EROSION CONTROL SEQUENCE

- PROVIDE SODDING OF NON PAVED DISTURBED AREAS.
- AFTER ALL AREAS ARE STABILIZED, REMOVE CONSTRUCTION ENTRANCES, SILT BARRIERS, AND OTHER TEMPORARY SEDIMENT CONTROL DEVICES.

GENERAL EROSION & SEDIMENT CONTROL NOTES

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENT CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT OR SEDIMENT FROM LEAVING THE SITE. SILT OR SEDIMENT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. THE CONTRACTOR SHALL PREVENT THE ESCAPE OF SILT OR SEDIMENT FROM THE SITE BY INSTALLING EROSION CONTROL MEASURES IN ADDITION TO THOSE SHOWN ON PLANS AS NECESSARY AND CONDUCTING PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY TO PREVENT SILT OR SEDIMENT FROM ESCAPING THE SITE AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAINFALL AND PERFORM NECESSARY REPAIRS AND MAINTENANCE. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION AND SEDIMENT CONTROL DEVICES WHICH BECOME INEFFECTIVE. NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL EROSION CONTROL DEVICES OR MEASURES AS DEEMED NECESSARY BY THE ENGINEER, OWNER OR REGULATORY AUTHORITIES TO COMPLY WITH CONSTRUCTION DOCUMENTS OR GOVERNING AUTHORITY.
- CONTRACTOR SHALL REMOVE THE BUILD UP OF SILT AND SEDIMENT FROM BEHIND SILT FENCE, ROCK CHECK DAMS AND INLET FILTERS WHEN SILT AND SEDIMENT HAS REACHED 1/3 THE TOTAL HEIGHT OF THE EROSION AND SEDIMENT CONTROL DEVICE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS AND PERMITS.
- ALL EROSION CONTROL MEASURES SHALL MEET THE GUIDELINES SET FORTH IN THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS VOLUME 1", PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
- CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT ALL EROSION AND SEDIMENT DEVICES AND MEASURES IN ACCORDANCE WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS VOLUME 1", PUBLISHED BY THE PUBLISHED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, PUBLISHED 2018.
- THE LIMITS OF DISTURBANCE SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE. ANY DAMAGE OUTSIDE THE LIMITS OF CONSTRUCTION CAUSED BY THE CONTRACTOR OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED TO ITS ORIGINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE AS REQUIRED BY THE ENGINEER, PLANS, AND THE CITY OF FAIRHOPE. SILTATION CONTROL MEASURE SHALL BE INSPECTED AT LEAST MONTHLY AND FOLLOWING MEASURABLE PRECIPITATION EVENTS. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY AND NO FURTHER WORK WILL PROCEED UNTIL SAID DEFICIENCIES ARE CORRECTED TO THE CITY OF FAIRHOPE, OR ENGINEER'S APPROVAL.
- IF SEDIMENT ESCAPES THE SITE IT SHALL BE RECOVERED, RETURNED TO THE SITE, SPREAD IN LANDSCAPE AREAS AND SEEDED.

CAUTION NOTICE TO CONTRACTOR:
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE 811 UNDERGROUND UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE ANY SITE DISTURBANCE OR EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. KEEP UTILITY LOCATE REQUEST ACTIVE UNTIL EXCAVATION IS COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.



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ENGINEER-OF-RECORD
NICHOLAS J. OSTREY, P.E.
AL REG. NO. 38762

TITLE: HIGHWAY 181 EROSION & SEDIMENT CONTROL PLAN

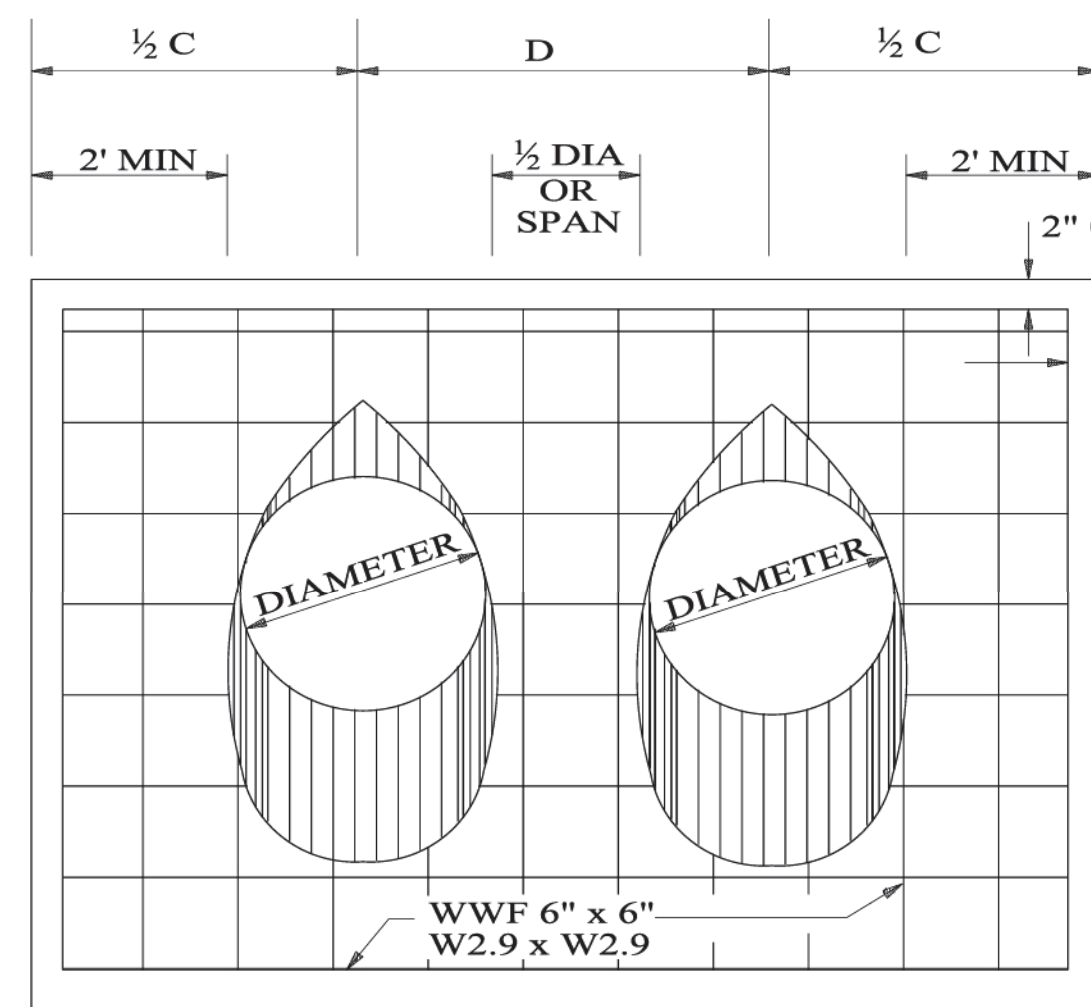
EXPRESS OIL CHANGE
FAIRHOPE, ALABAMA

FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

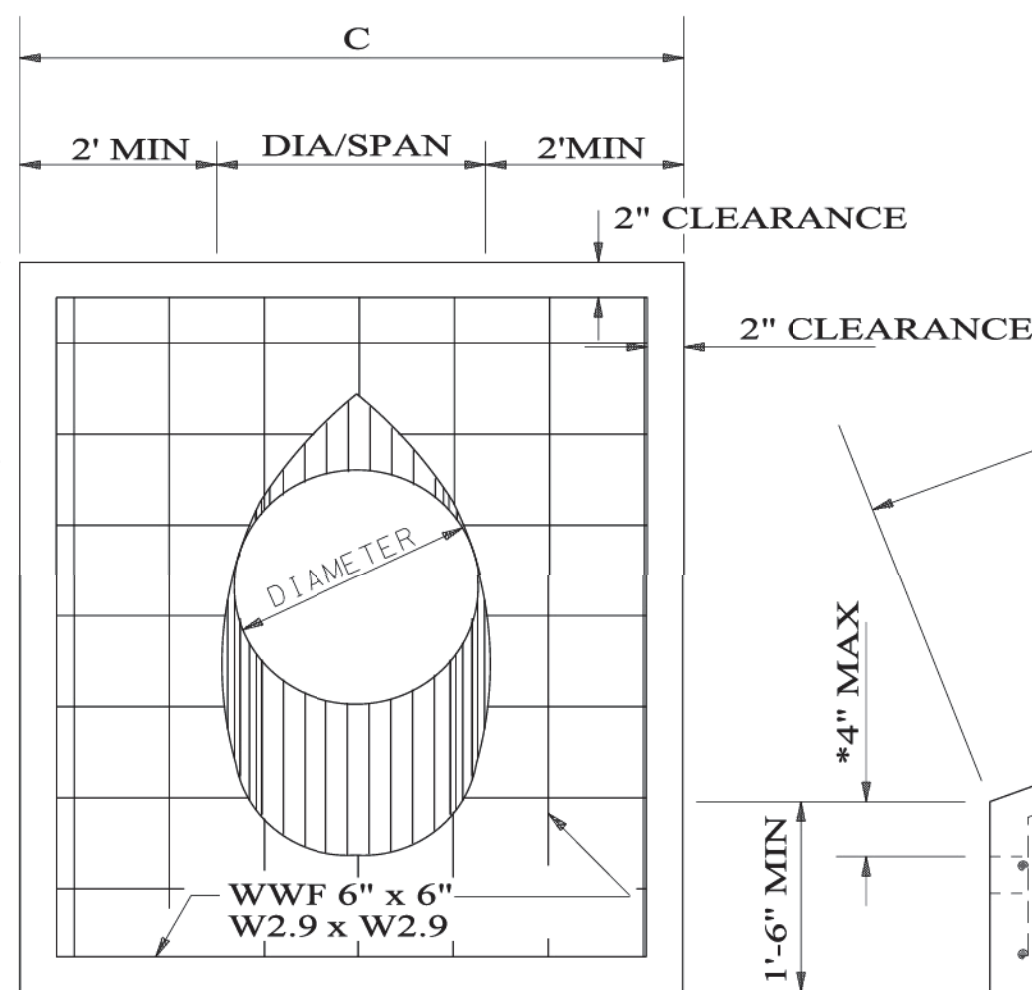
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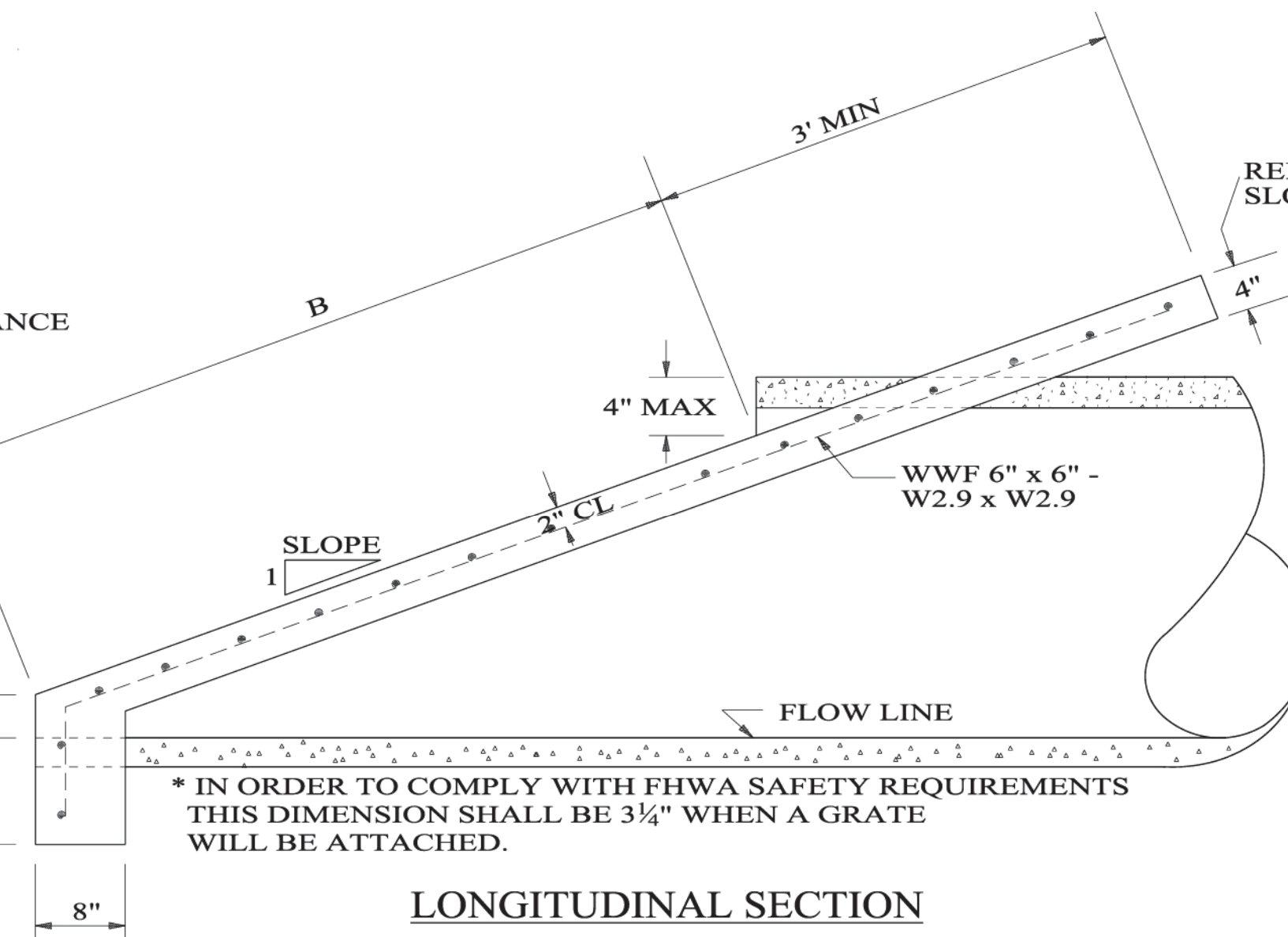
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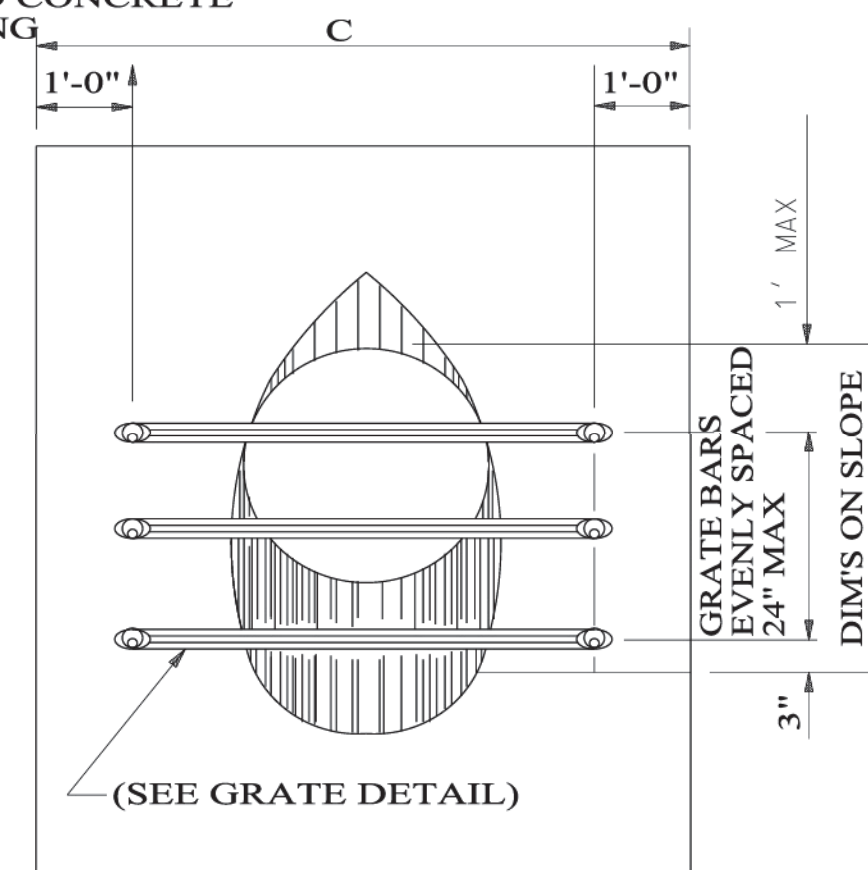
END ELEVATION DOUBLE BARREL



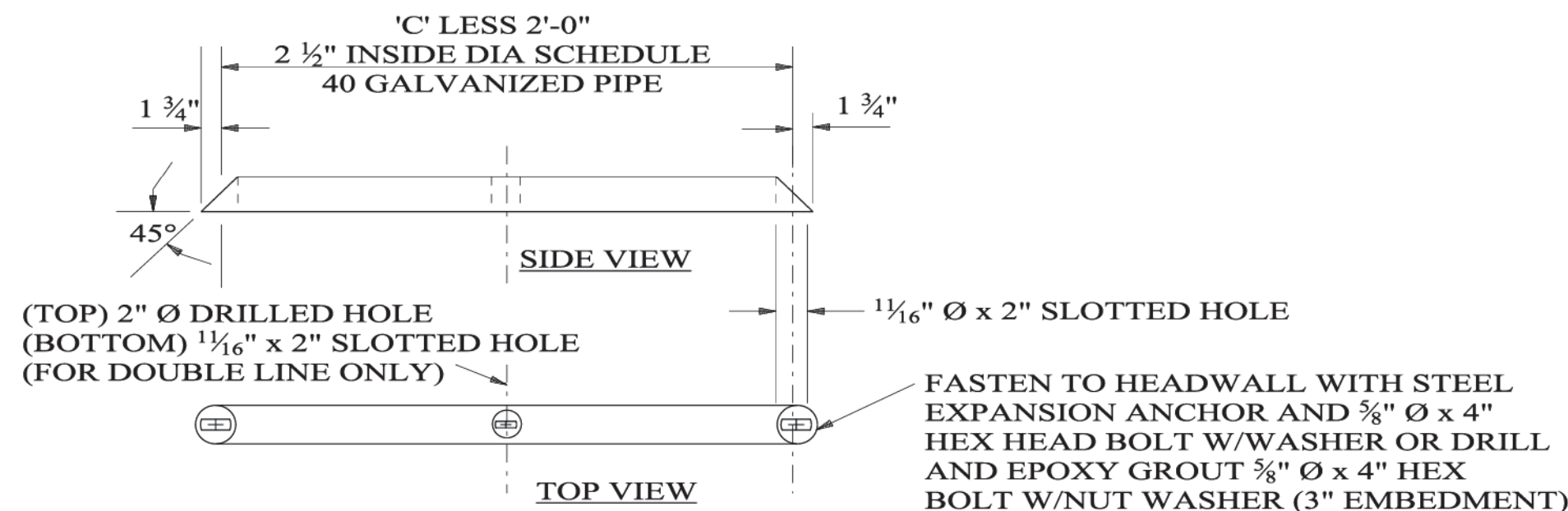
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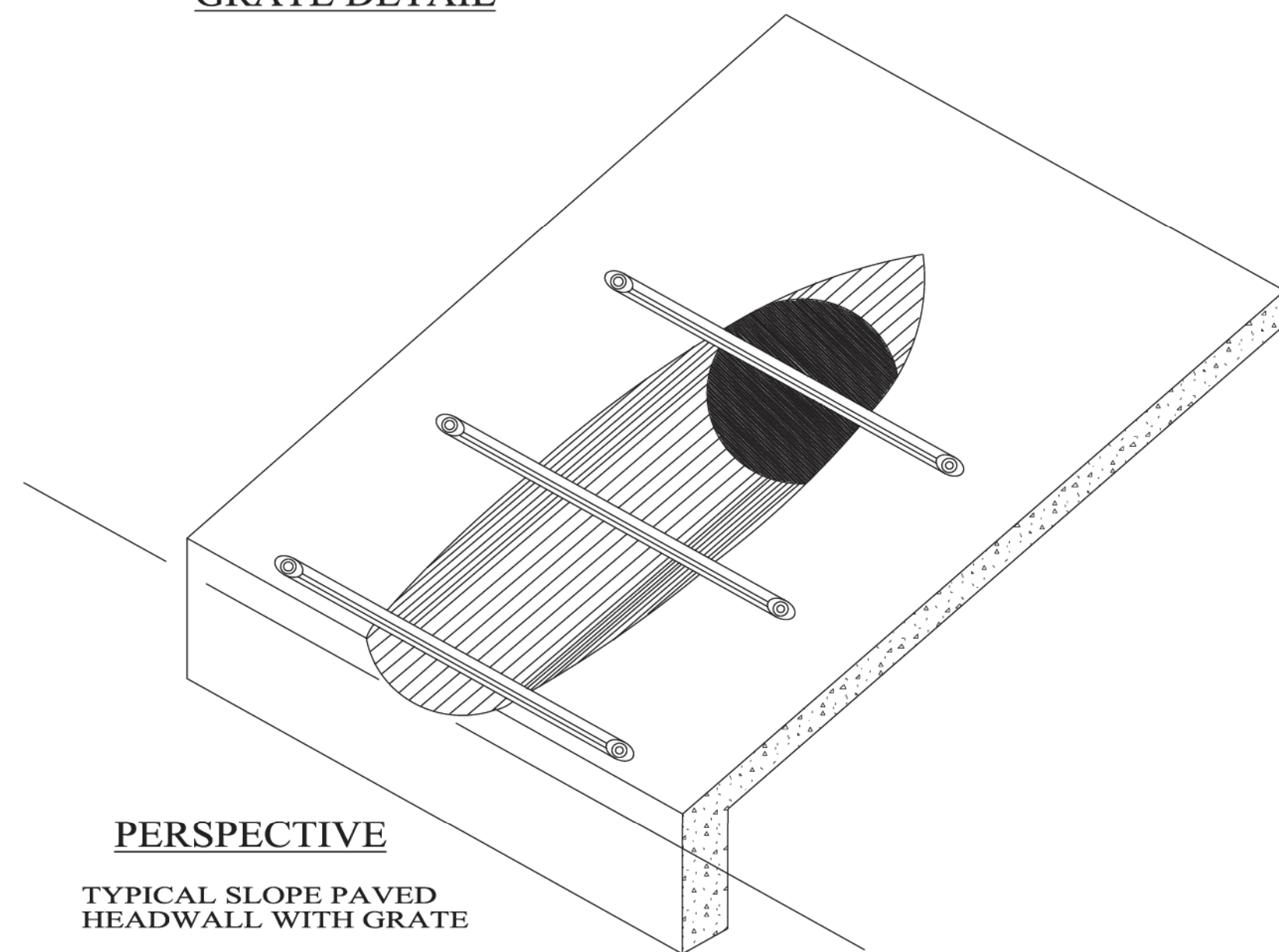
LONGITUDINAL SECTION



END ELEVATION WITH GRATE



GRATE DETAIL



PERSPECTIVE

TYPICAL SLOPE PAVED
HEADWALL WITH GRATE

GENERAL NOTES

1. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
2. QUANTITIES SHOWN INCLUDE TWO (2) SLOPE PAVED HEADWALLS WITH TOE WALLS.
3. DIMENSIONS AND QUANTITIES SHOWN APPLIES TO CONCRETE, CORRUGATED METAL PIPE, AND CORRUGATED HDPE PIPE. CONCRETE QUANTITIES ARE SUFFICIENT WHEN HEADWALLS FOR ARCH PIPE IS DESIRABLE.
4. CONCRETE PIPE SHALL BE BEVELED BY SAWING AFTER SLOPE PAVING HAS BEEN PLACED AND SUFFICIENTLY CURED (SOME HAND FINISHING MAY BE NECESSARY.) METAL PIPE SHALL BE SHOP CUT. CORRUGATED HDPE PIPE MAY BE FIELD BEVELED PRIOR TO PAVING OR SHOP CUT.
5. CONTRACTOR SHALL INSURE THROUGH MECHANICAL MEANS OR OTHER APPROVED DEVICES THAT CONNECTION BETWEEN BEVELED PIPE END AND CONCRETE WILL NOT BE DETACHED. CORRUGATED HDPE PIPE SHALL HAVE 1/2" Ø x 6" GALVANIZED HOOK BOLTS WITH WASHERS LOCATED AT 30° OC FOR THE TOE AND 1/2" Ø x 6" GALVANIZED THREADED HEX HEAD BOLTS WITH WASHERS LOCATED ON 2'-0" CENTERS FOR SIDES. ANCHOR BOLTS INTO CONCRETE.
6. SLOPE PAVED HEADWALL WITHOUT GRATE SHALL BE CLASS 1. SLOPE PAVED HEADWALL WITH GRATE SHALL BE CLASS 2.
7. A 24" PIPE WITH GREATER THAN A 30° SKEW AND 30" OR GREATER IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
8. PIPE FOR GRATE SHALL BE SCHEDULE 40, GALVANIZED (ASTM A53) HARDWARE SHALL BE GALVANIZED ACCORDING TO SPECIFICATIONS.
9. RAW METAL EXPOSED BY CUTTING AND DRILLING OF PIPE FOR GRATE ASSEMBLY WILL REQUIRE A GALVANIZING REPAIR PAINT IN ACCORDANCE WITH SECTION 855.31 OF ALDOT SPECIFICATIONS.

DIMENSIONS AND QUANTITIES							
PIPE SIZE	AREA SQ FT	SLOPE	B	C	D	CU YDS ONE BARREL	CU YDS ADDITIONAL BARREL
15" Ø	1.2	4:1	2'-5"	5'-3"	1'-11"	0.92	0.30
18" Ø	1.8	4:1	3'-6"	5'-6"	2'-3"	1.06	0.36
24" Ø	3.1	4:1	5'-6"	6'-0"	3'-0"	1.32	0.52
30" Ø	4.9	4:1	7'-7"	6'-6"	3'-9"	1.60	0.72
36" Ø	7.1	4:1	9'-8"	7'-0"	4'-6"	1.86	0.94
42" Ø	9.6	4:1	11'-9"	7'-6"	5'-3"	2.20	1.20
48" Ø	12.6	4:1	13'-9"	8'-0"	6'-0"	2.40	1.46
54" Ø	15.9	4:1	15'-10"	8'-6"	6'-9"	2.60	1.76
15" Ø	1.2	6:1	3'-7"	5'-3"	1'-11"	1.04	0.30
18" Ø	1.8	6:1	5'-1"	5'-6"	2'-3"	1.22	0.40
24" Ø	3.1	6:1	8'-1"	6'-0"	3'-0"	1.58	0.60
30" Ø	4.9	6:1	11'-2"	6'-6"	3'-9"	1.94	0.84
36" Ø	7.1	6:1	14'-2"	7'-0"	4'-6"	2.30	1.12
42" Ø	9.6	6:1	17'-3"	7'-6"	5'-3"	2.68	1.42
48" Ø	12.6	6:1	20'-3"	8'-0"	6'-0"	3.04	1.78
54" Ø	15.9	6:1	23'-4"	8'-6"	6'-9"	3.40	2.18
15" Ø	1.2	10:1	5'-10"	5'-3"	1'-11"	1.24	0.32
18" Ø	1.8	10:1	8'-4"	5'-6"	2'-3"	1.54	0.46
24" Ø	3.1	10:1	13'-5"	6'-0"	3'-0"	2.08	0.72
30" Ø	4.9	10:1	18'-5"	6'-6"	3'-9"	2.66	1.06
36" Ø	7.1	10:1	23'-5"	7'-0"	4'-6"	3.20	1.46
42" Ø	9.6	10:1	28'-6"	7'-6"	5'-3"	3.78	1.90
48" Ø	12.6	10:1	33'-6"	8'-0"	6'-0"	4.32	2.42
54" Ø	15.9	10:1	38'-6"	8'-6"	6'-9"	4.88	3.02
15" Ø	1.2	20:1	11'-9"	5'-3"	1'-11"	1.84	0.42
18" Ø	1.8	20:1	16'-8"	5'-6"	2'-3"	2.40	0.62
24" Ø	3.1	20:1	26'-8"	6'-0"	3'-0"	3.38	1.06

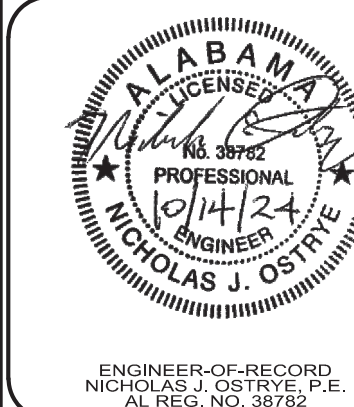
SLOPE PAVED HEADWALL DETAIL

N.T.S.

SPECIAL DRAWING NO.: HW-614-SP

INDEX NO.: 61913

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PROJECT DETAILS
EXPRESS OIL CHANGE
FAIRHOPE, ALABAMA
FOR
EXPRESS OIL CHANGE & TIRE ENGINEERS

DATE	10/14/2024	PROJECT NO.	EXP00011	DRAWN BY	SAR	CHECKED BY	NJO	SCALE	N.T.S.
REV. DATE	10/14/2024	NO.		BY	SAR	CHKD BY	NJO		
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DRAWING NO.
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