

ADDENDUM NO. 01
CITY OF FAIRHOPE

Bid No.034-19 N. Mobile Street Drainage Improvements

CLARIFICATION: Plans for project included.

Bidders are to sign and include signed **Addendum No. 1** with submitted bid documents.

Acknowledged:

Company

By

Purchasing Manager
City of Fairhope
Posted: 6/26/19

PROPOSED SITE IMPROVEMENT PLANS

for

N. Mobile Street Drainage Improvements Fairhope, Alabama 36532

Contact:
Richard Johnson
251-929-0360

GRADING & DRAINAGE NOTES

1. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. ALL CUT OR FILL SLOPES SHALL BE 2:1 OR FLATTER UNLESS OTHERWISE NOTED. SLOPES STEEPER THAN 3:1 SHALL BE COVERED WITH CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY OR EQUAL.
3. ALL DISTURBED AREAS NOT OTHERWISE COVERED BY BUILDINGS OR PAVEMENT SHALL RECEIVE FOUR INCHES OF TOPSOIL AND STABILIZED WITH PERMANENT SEED.
4. ALL STRUCTURES SHALL BE PRECAST CONCRETE PER ASTM C-478/C-913 AND ALDOT STANDARDS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
5. STORM PIPE SHALL BE AS FOLLOWS:
RCP, CLASS III PER ALDOT SPECIFICATIONS.
THE TYPE OF PIPE MAY BE ALTERED IF APPROVED BY THE ENGINEER.
6. ALL CAST IN PLACE CONCRETE TO HAVE A MIN. 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
7. THE CONTOUR INTERVAL IS ONE FOOT OR AS SHOWN.
8. THE ELEVATION OF MANHOLE/INLET TOPS ARE TO BE AT THE FINISH ELEVATION SHOWN. THE DEFINITION OF THE TYPE OF TOP IS AS LISTED:
WEIR INLET = THROAT; ELEVATION OF THE POINT AT WHICH WATER PASSES INTO THE BOX.
DROP INLET = GRATE; THE TOP MOST PART OF THE FRAME AND GRATE.
CATCH BASIN = THROAT; ELEVATION OF THE POINT AT WHICH WATER PASSES INTO THE BOX.
JUNCTION BOX = TOP; THE TOP MOST PART OF THE RIM AND COVER CASTING.
9. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER RECORD DRAWINGS OF AS-BUILT CONDITIONS FOR THE DEVELOPMENT OF THE SITE.
10. EXISTING INFORMATION IS SHOWN PER SURVEY BY SMITH CLARK & ASSOCIATES.
11. GRADES NOT OTHERWISE INDICATED ON THE PLANS SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN. ABRUPT CHANGES IN SLOPE SHALL BE WELL ROUNDED. ELEVATIONS REPRESENT FINAL GRADE.
12. ALL SILT BARRIERS SHALL BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL THE TREE PROTECTION, SAVE AREAS, SILT BARRIER INSTALLATION AND DETENTION FACILITIES ARE CONSTRUCTED.
13. THE LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
14. ALL O.S.H.A. CONSTRUCTION REQUIREMENTS SHALL BE STRICTLY ADHERED TO.
15. PIPE LENGTHS SHOWN ARE LINEAR DISTANCES BETWEEN CENTER TO CENTER OF STRUCTURES. THE CONTRACTOR SHALL DETERMINE THE QUANTITY OF PIPE NEEDED FOR THE JOB, BASED ON SLOPE LENGTH AND WHOLE STANDARD PIPE SECTIONS.
16. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROPER TRAFFIC CONTROL FOR PUBLIC SAFETY ADJACENT TO THE CONSTRUCTION SITE.
17. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES IN CONFORMITY WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
18. MAXIMUM CUT OR FILL SLOPE IS 2H:1V
19. CONTRACTOR TO CLEAN OUT ACCUMULATED SILT IN THE STORM SYSTEM AT THE END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.
20. RIP RAP WILL BE REQUIRED AT ALL HEADWALL STRUCTURES. THE RIP RAP SHALL BE PLACED AT THE TIME OF STRUCTURE PLACEMENT AND CLEANED/REPLACED AS NECESSARY OR PER THE ENGINEERS INSTRUCTIONS.
21. ALL ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.
22. CONTRACTOR SHALL PROVIDE A SURVEYED AS-BUILT OF THE STORM SYSTEM.
23. CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION AND REPORT OF THE STORM SYSTEM. THE VIDEO SHALL RUN THE ENTIRE LENGTH OF THE SYSTEM AND PAN AROUND EACH JOINT.

EROSION CONTROL NOTES

1. THE EXISTING SITE IS DEVELOPED.
2. CONTACT LARRY SMITH, PE 251-990-6566.
3. AREA TO BE DISTURBED = 0.658 ACRES
4. ALL VEGETATION SHALL BE PLANTED AND MAINTAINED PER THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (ALABAMA HANDBOOK).
5. ALL EROSION CONTROL MEASURES SHALL BE PER THE DIRECTION OF THE ENGINEER, SOIL AND WATER CONSERVATION COMMITTEE OFFICER, AND THE FEDERAL E.P.A. GUIDELINES FOR THE NPDES PROGRAM.
6. ABSOLUTELY NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAINS OR UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS OR ADJACENT PARCELS THEN THE GRADING CONTRACTOR SHALL CLEAN THE DISTURBED AREAS IMMEDIATELY AND RESTORE THE AREAS TO THE ORIGINAL CONDITION WITHIN 24 HOURS.
7. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND PERMANENTLY SEEDED WITH "SOUTH" TYPE SEEDINGS PER THE ALABAMA HANDBOOK.
8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE GOVERNING OFFICIALS. IT IS THE RESPONSIBILITY OF THE GRADING CONTRACTOR TO BE INTIMATE WITH THE LOCAL EROSION CONTROL LAWS AND TO REFLECT THIS KNOWLEDGE IN HIS/HER ACTIONS AND QUOTATIONS.
9. REFERENCE THE CONSTRUCTION SEQUENCE FOR THE RELATIONSHIP BETWEEN THE INSTALLATION OF EROSION CONTROL FEATURES AND GENERAL CONSTRUCTION.
10. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
11. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE GOVERNING OFFICIAL OR ENGINEER OF RECORD.
12. ALL SILT BARRIERS SHALL BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL THE SEDIMENT BARRIERS HAVE BEEN CONSTRUCTED.
13. CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES AFTER PERMANENT GRASSING IS IN PLACE AND ESTABLISHED.
14. DISTURBED AREAS LEFT IDLE FOR TEN DAYS OR LONGER ARE TO BE SEEDED AND MULCHED.
15. SEDIMENT / EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED 1/2 OF THE CAPACITY OF THE DEVICE.
16. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER'S CONTRACTOR.
17. THE CONTRACTOR SHALL PREVENT THE LOSS OF SEDIMENT DUE TO WIND VIA WATERING DRY SOILS. CAUTION SHOULD BE TAKEN TO ENSURE THAT THE SITE IS NOT OVER WATERED.
18. THE SITE IS TO BE CLEARED AND GRADED AS TO MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ONE TIME.
19. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
20. CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND CLEARING ANY DEBRIS AND SEDIMENT CAUSED BY CONSTRUCTION.
21. BMP'S SHALL BE INSTALLED AS PER THE ALABAMA HANDBOOK STANDARDS.
22. BMP'S SHALL BE INSTALLED WITH MINIMAL CLEARING ACTIVITY.
23. REFER TO THE LANDSCAPE PLANS FOR FINAL STABILIZATION MEASURES.
24. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN 7 DAYS OF THEIR CONSTRUCTION.
25. ALL FILL SLOPES HAVE SILT FENCE AT THE TOE OF SLOPES.
26. EXISTING TREES, TO BE SAVED, SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. CARE SHALL BE TAKEN IN ALL GRADING ACTIVITIES TO REMAIN OUTSIDE THE DRIP LINES OF EXISTING TREES. ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
27. TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING.

USDA SOIL SURVEY CLASSIFICATIONS

EuB - EUSTIS LOAMY FINE SAND - 0 TO 5 PERCENT SLOPES - HSG A



VICINITY MAP

N.T.S.

SECTION 37, TOWNSHIP 6 SOUTH, RANGE 2 EAST
BALDWIN COUNTY, ALABAMA

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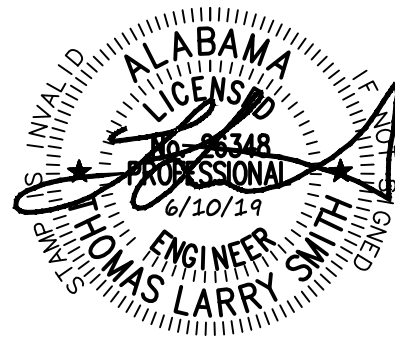
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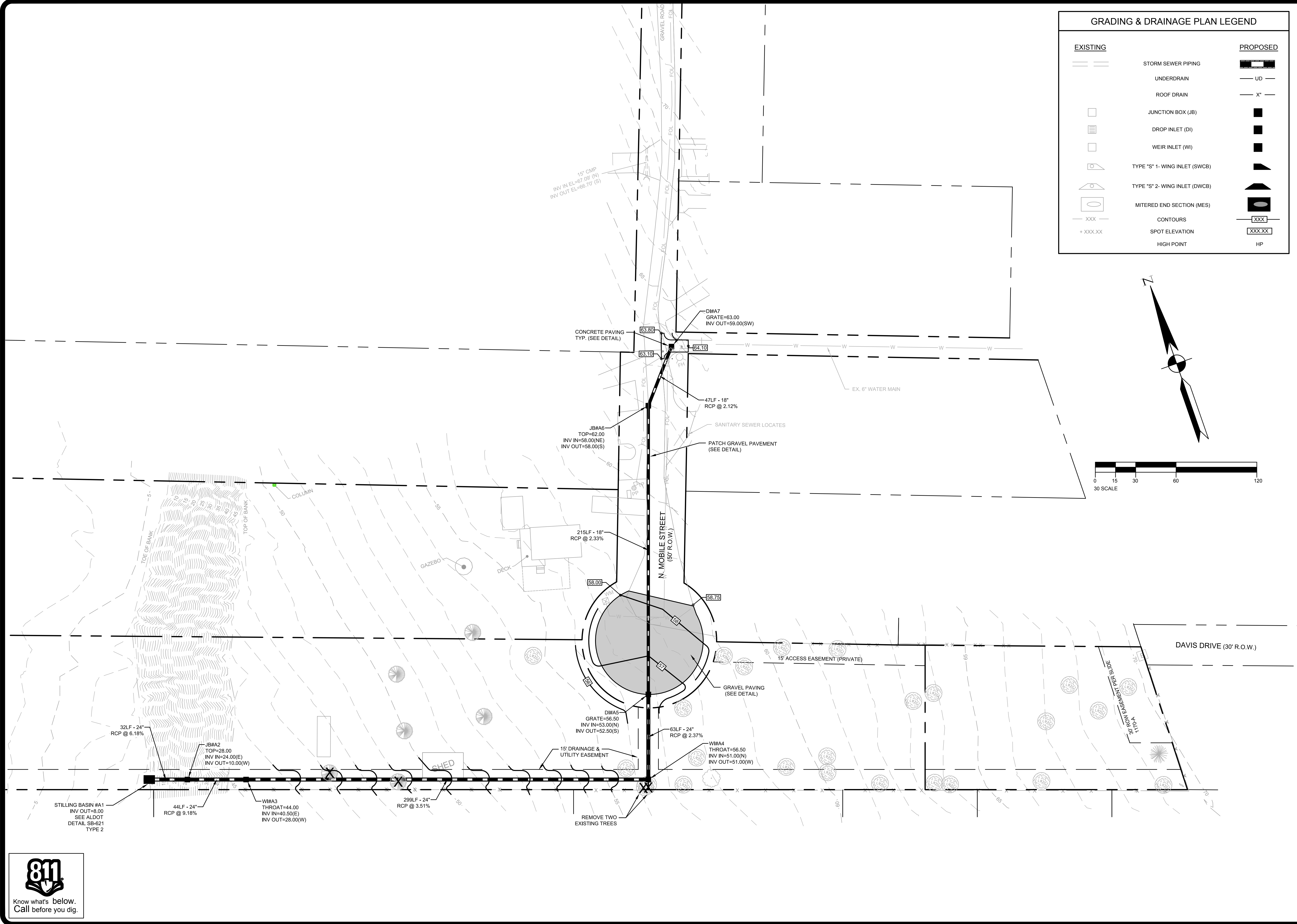
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GRADING PLAN & DRAINAGE PLAN
EROSION & SEDIMENT CONTROL PLAN
STORM SEWER PROFILES
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS

S.E. Civil
Engineering
& Surveying
880 Holcomb Blvd, Suite 2F
Fairhope, AL 36532
(251) 990-6566



Know what's below.
Call before you dig.





GRADING & DRAINAGE PLAN LEGEND			
EXISTING		PROPOSED	
	STORM SEWER PIPING		UD
	ROOF DRAIN		JB
	DROP INLET (DI)		DI
	WEIR INLET (WI)		WI
	TYPE "S" 1- WING INLET (SWCB)		SWCB
	TYPE "S" 2- WING INLET (DWCB)		DWCB
	MITERED END SECTION (MES)		MES
	CONTOURS		CONTOURS
	SPOT ELEVATION		SPOT ELEVATION
	HIGH POINT		HP

REVISION

DATE

S.E. Civil
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& Surveying
880 Holcomb Blvd, Suite 2F
Fairhope, AL 36532
(251) 966-6666

GRADING & DRAINAGE
PLAN

N. Mobile Street
Drainage Improvements
Fairhope, Alabama 36532

JOB No.
20190436

DATE
6/10/19

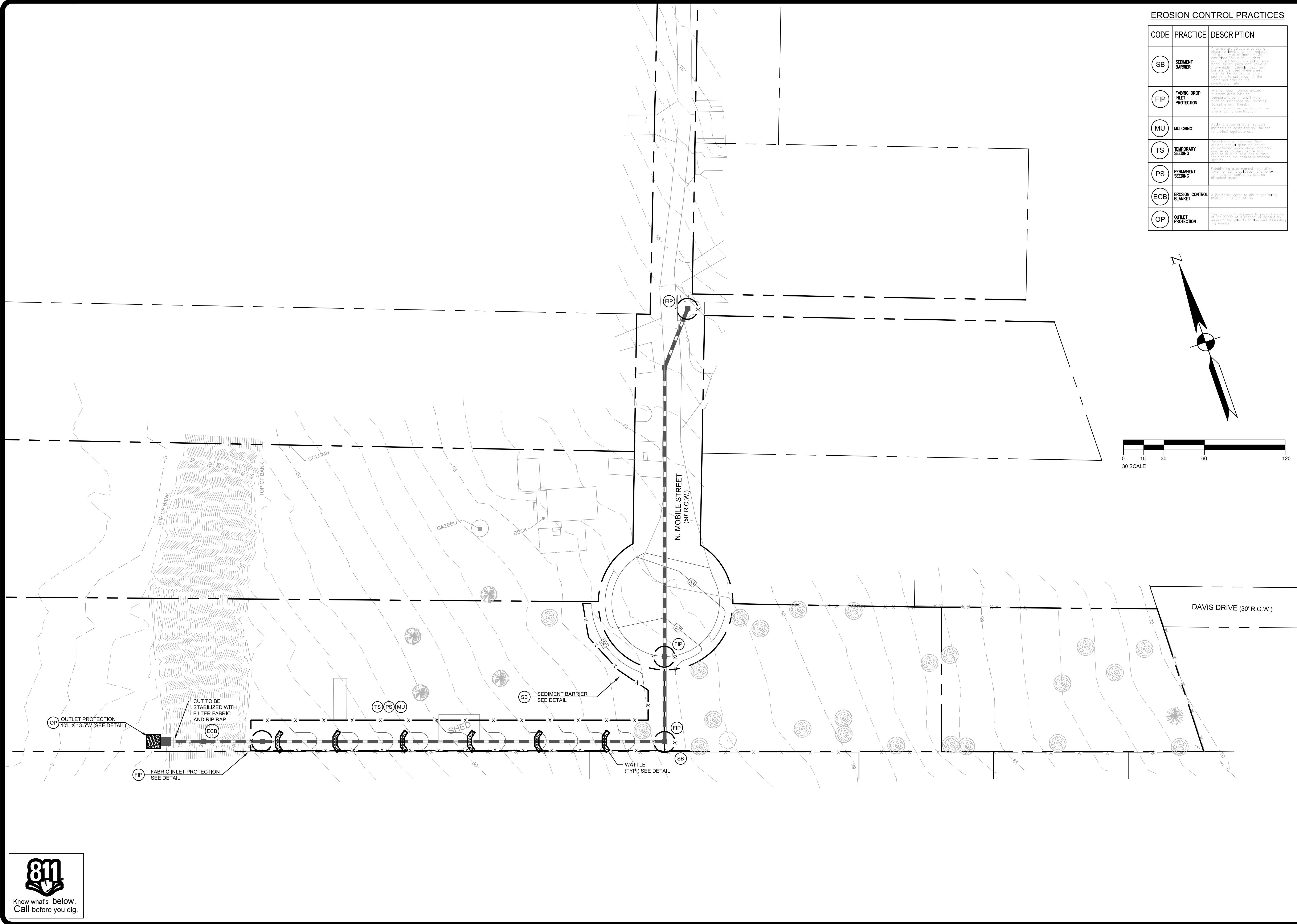
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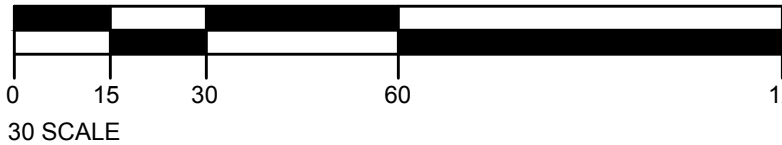
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EROSION CONTROL PRACTICES

CODE	PRACTICE	DESCRIPTION
SB	SEDIMENT BARRIER	Collecting sediment and debris from runoff of adjacent areas. Sediment barriers are made of heavy duty fabric, and chain, metal pins and various other erosion materials. Sediment barriers are used where runoff is expected to be significant. They are placed in the path of the runoff and stay on the ground surface.
FIP	FABRIC DROP INLET PROTECTION	Small scale fabric inlet to temporary point runoff water. Making suspended soil particles settle out, thereby reducing sediment entering storm drains during construction.
MU	MULCHING	Applying straw or other suitable material to cover the soil surface to protect against erosion.
TS	TEMPORARY SEEDING	Establishing a cover of grass, or other plants, where vegetation is not established within 30 days of the end of the construction period.
PS	PERMANENT SEEDING	Establishing a permanent vegetation cover through seeding and long-term erosion control by seeding disturbed areas.
ECB	EROSION CONTROL BLANKET	A protective cover to use in controlling erosion on critical areas.
OP	OUTLET PROTECTION	A structure is designed to prevent erosion at the outlet of a construction area by controlling the velocity of flow and dissipating the energy.



REVISION

DATE

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EROSION & SEDIMENT CONTROL PLAN

N. Mobile Street
Drainage Improvements

Fairhope, Alabama 36532

JOB No.
20190436

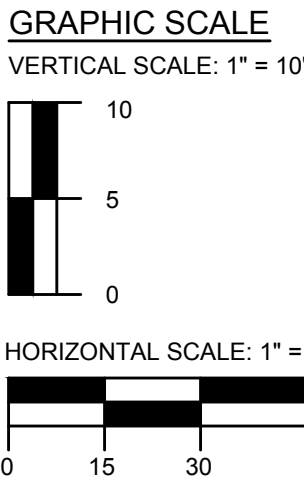
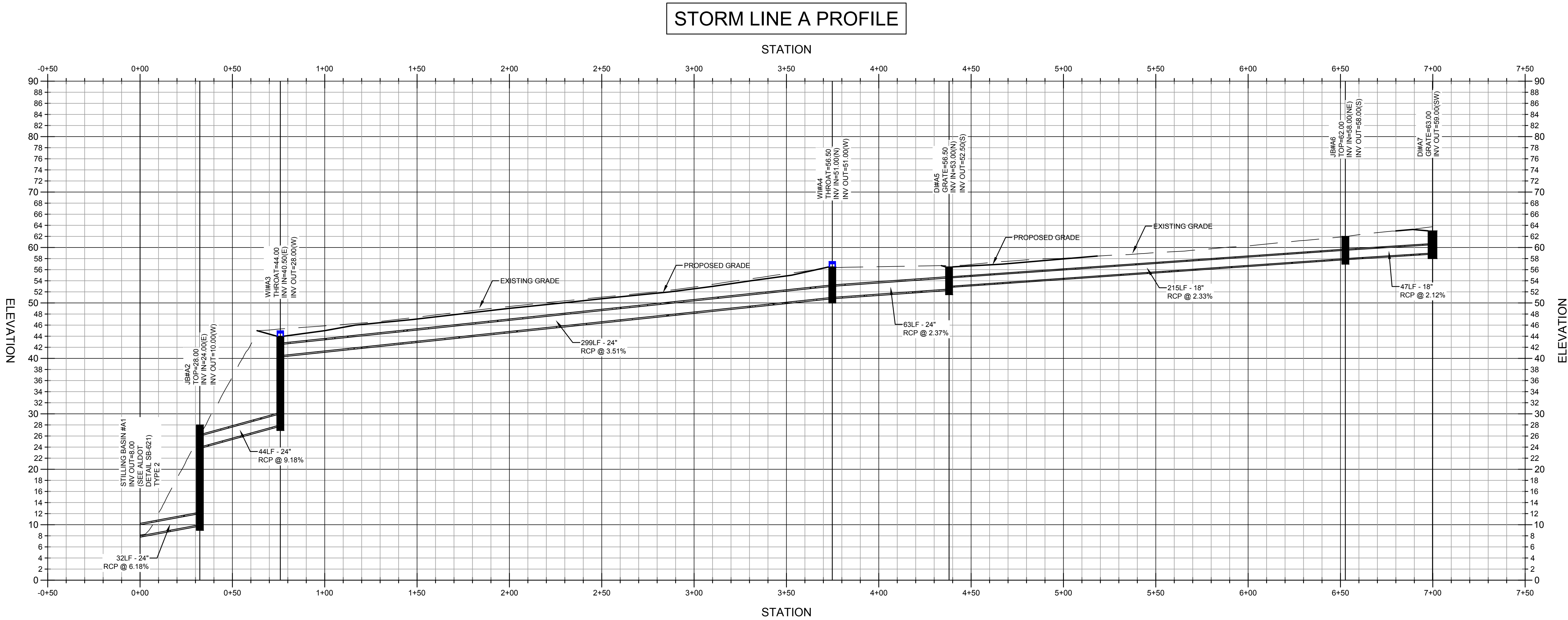
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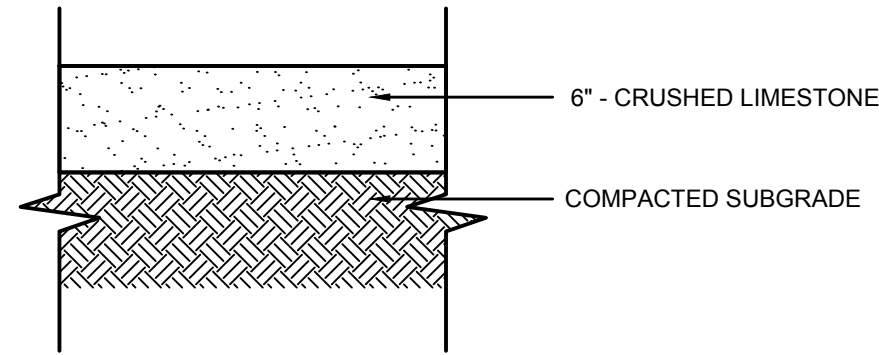


STORM SEWER PROFILES

N. Mobile Street
Drainage Improvements
Fairhope, Alabama 36532



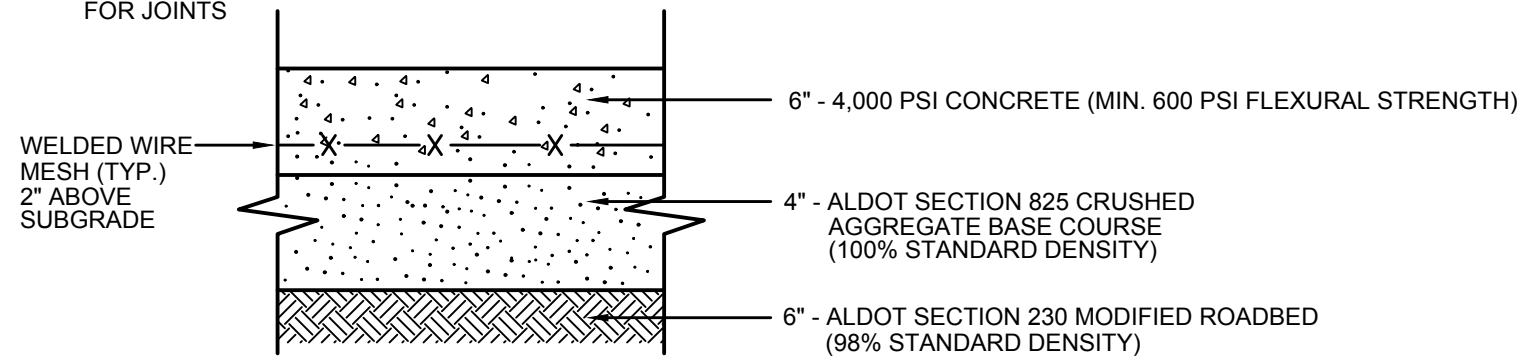
JOB No. 20190436	DATE 6/10/19
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GRAVEL PAVEMENT DETAIL

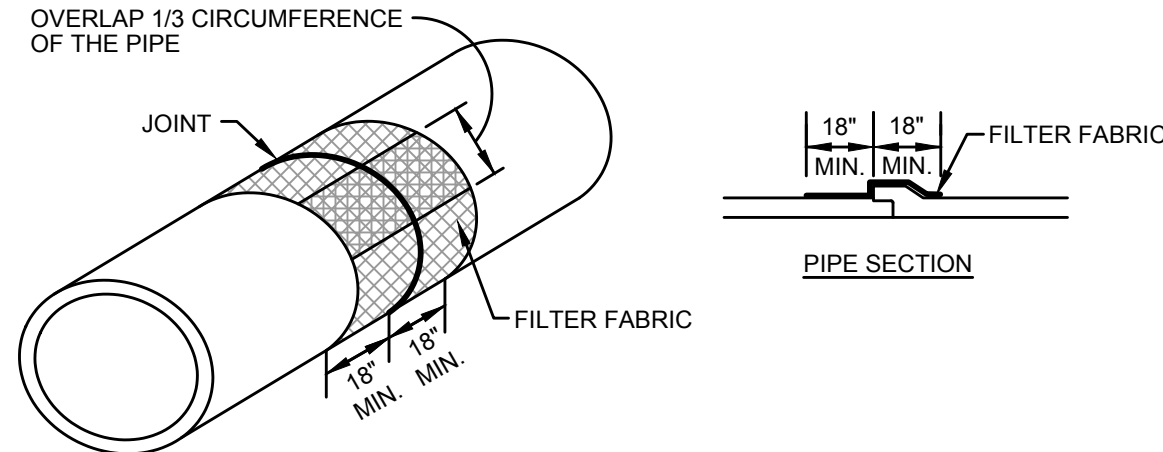
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NOTE:
SEE DETAIL
FOR JOINTS



CONCRETE PAVEMENT DETAIL

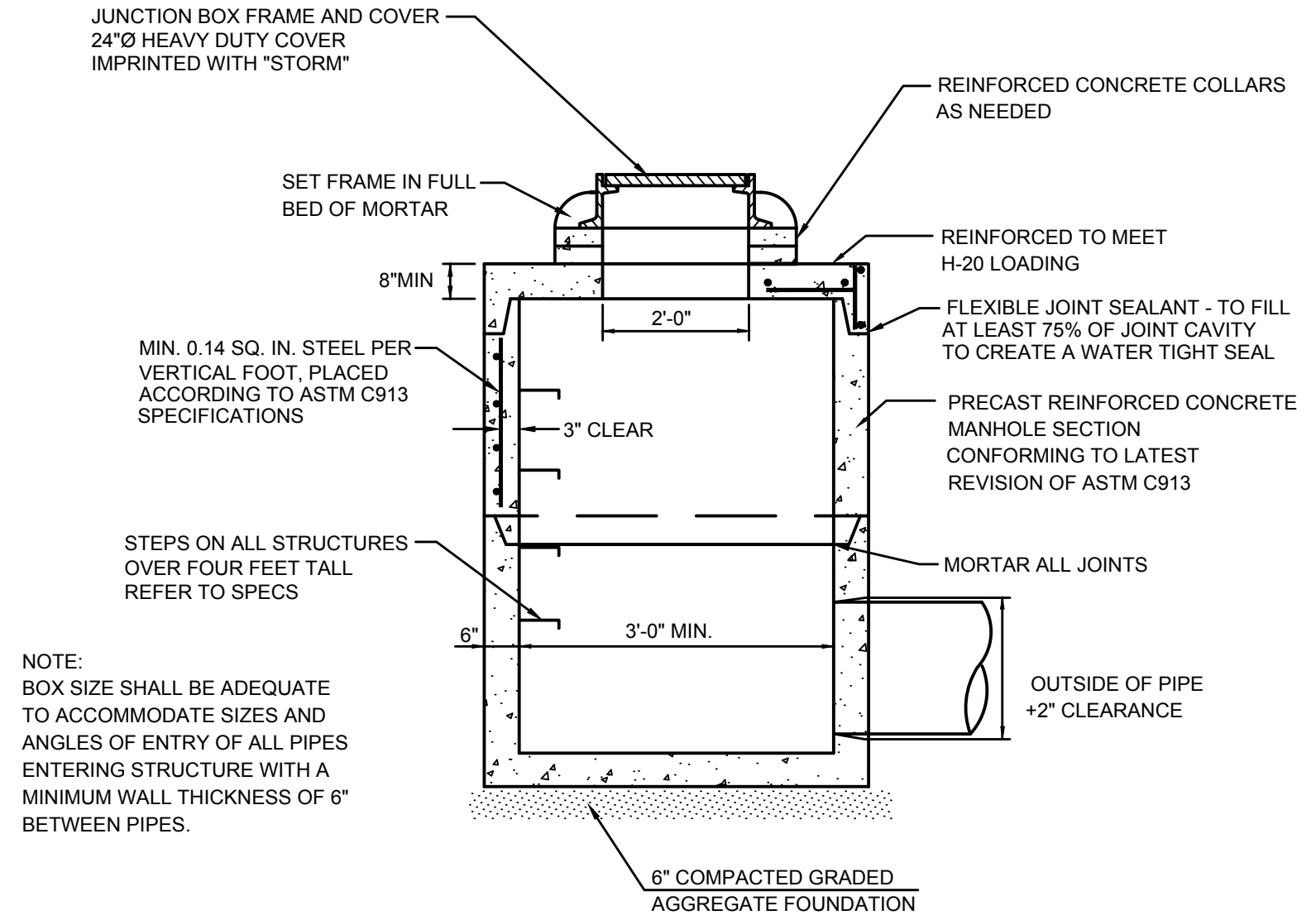
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ISOMETRIC VIEW

STORM PIPE JACKET

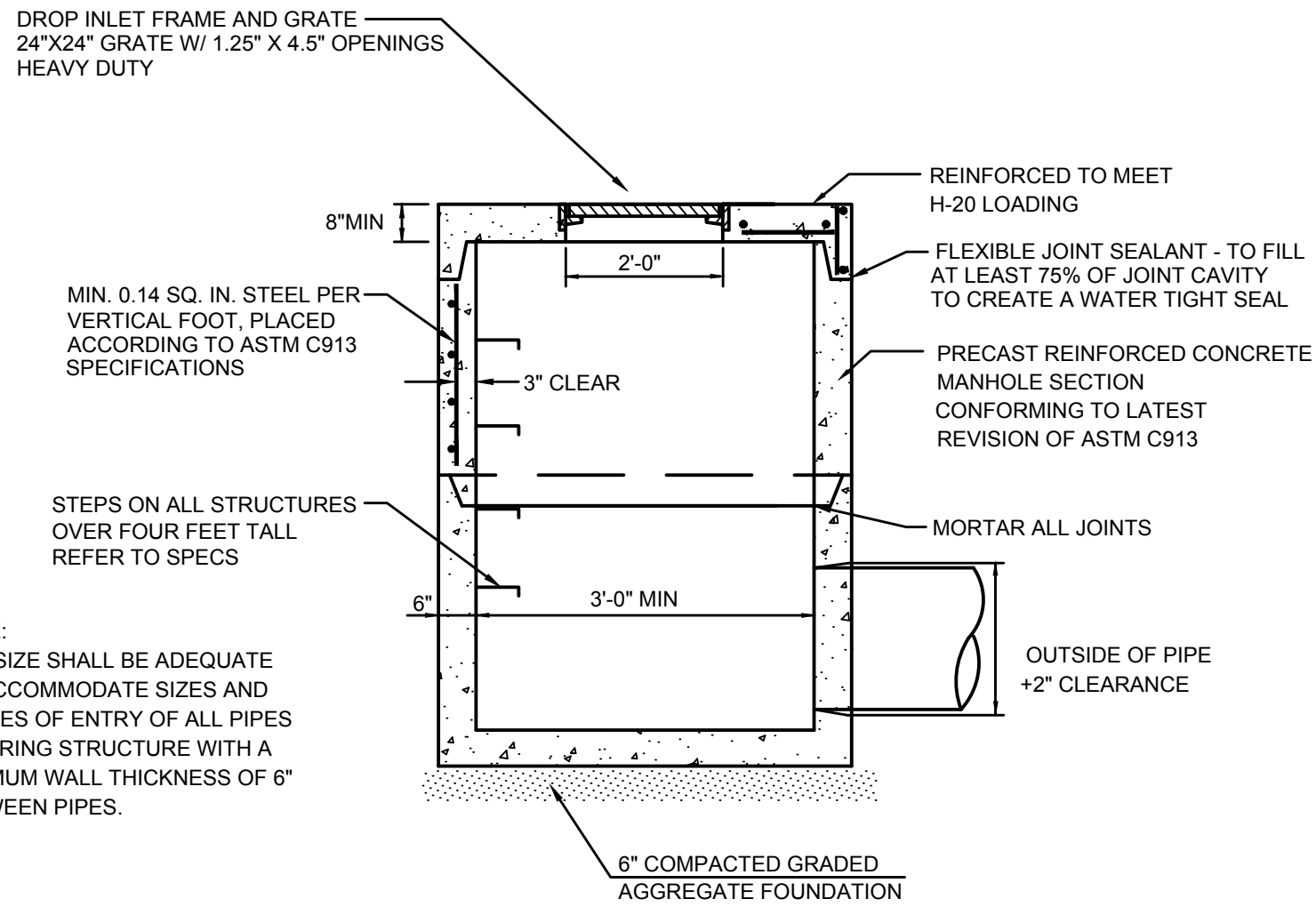
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NOTE:
BOX SIZE SHALL BE ADEQUATE
TO ACCOMMODATE SIZES AND
ANGLES OF ENTRY OF ALL PIPES
ENTERING STRUCTURE WITH A
MINIMUM WALL THICKNESS OF 6"
BETWEEN PIPES.

JUNCTION BOX (JB) DETAIL

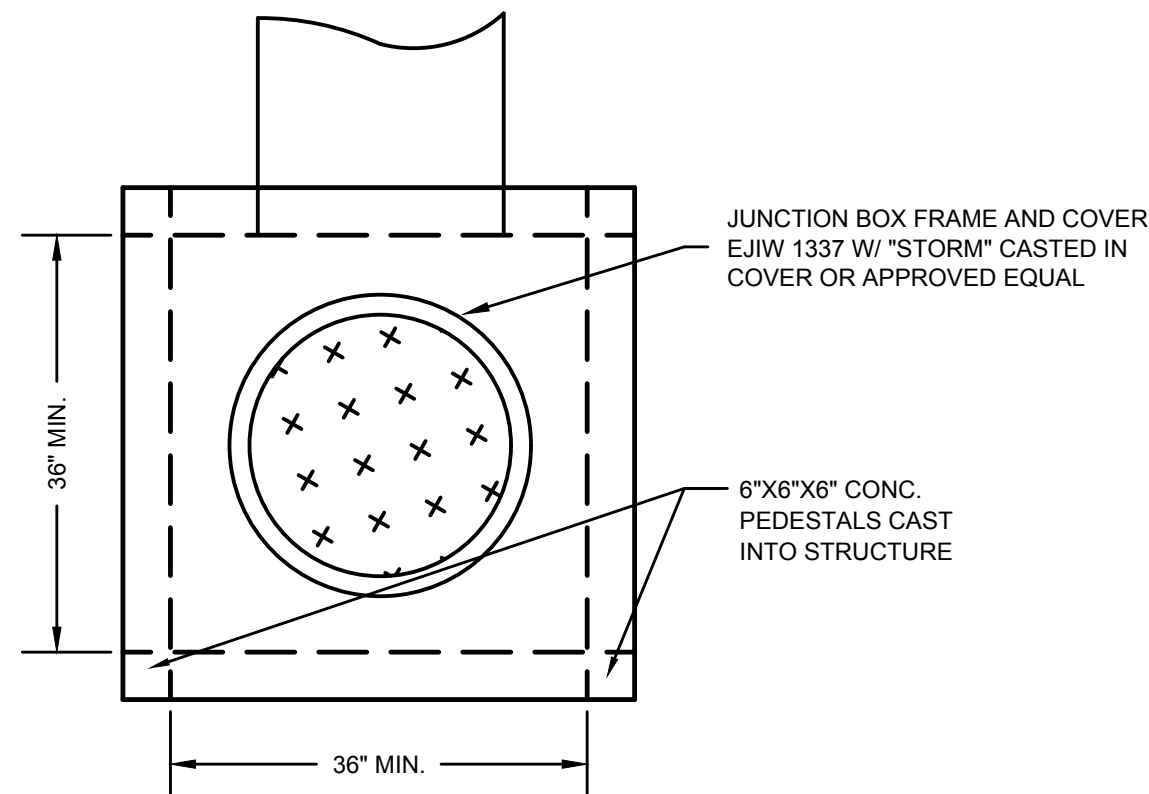
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NOTE:
BOX SIZE SHALL BE ADEQUATE
TO ACCOMMODATE SIZES AND
ANGLES OF ENTRY OF ALL PIPES
ENTERING STRUCTURE WITH A
MINIMUM WALL THICKNESS OF 6"
BETWEEN PIPES.

DROP INLET (DI) DETAIL

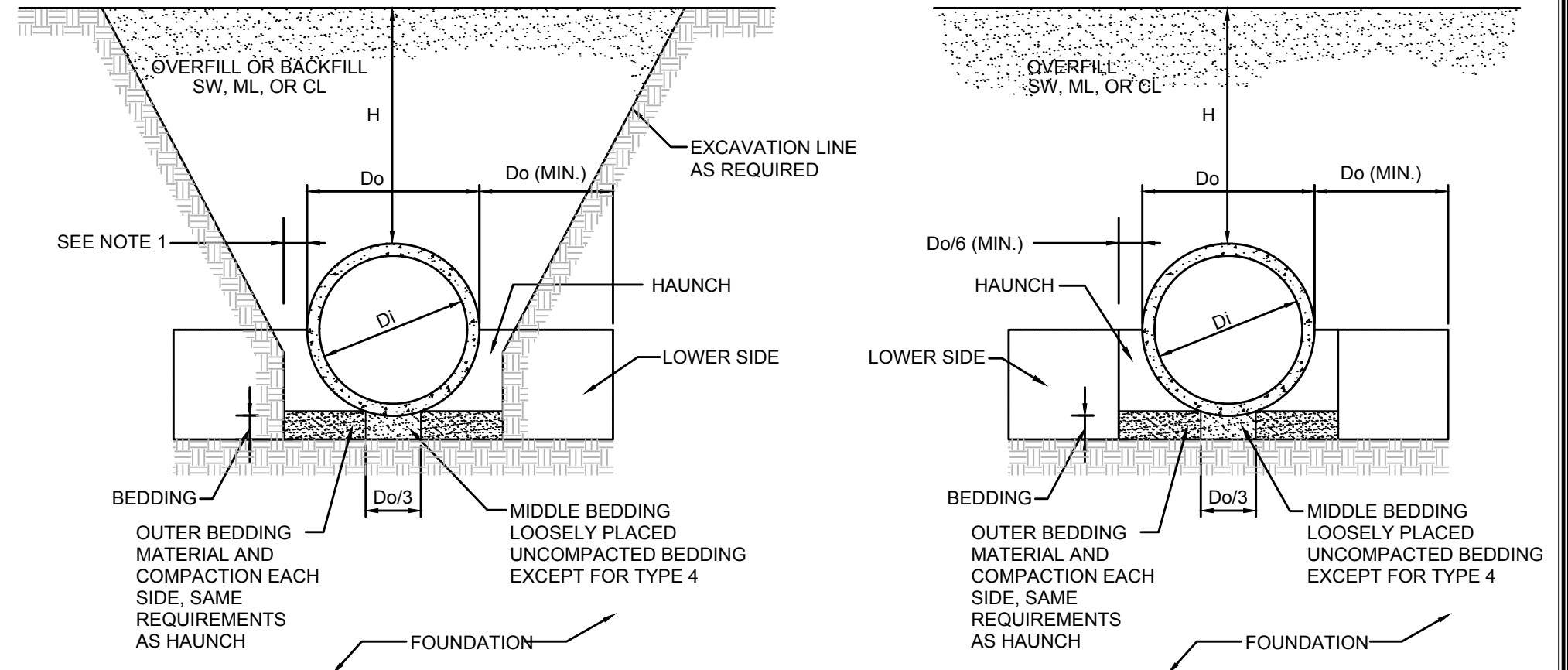
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NOTE:
BOX SIZE SHALL BE ADEQUATE
TO ACCOMMODATE SIZES AND
ANGLES OF ENTRY OF ALL PIPES
ENTERING STRUCTURE WITH A
MINIMUM WALL THICKNESS OF 6"
BETWEEN PIPES.

WEIR INLET DETAIL

SCALE: NTS



NOTE 1: CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE ADEQUATE TO
ENABLE SPECIFIED COMPACTION BUT NOT LESS THAN Do/6

TRENCH INSTALLATION

EMBANKMENT INSTALLATION

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	EMBANKMENT INSTALLATION LOWER SIDE	TRENCH INSTALLATION LOWER SIDE
TYPE 1	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	95% CATEGORY I	90% CATEGORY I, 95% CATEGORY II, OR 100% CATEGORY III	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% CATEGORY I, 95% CATEGORY II, 100% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 2	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	90% CATEGORY I, OR 95% CATEGORY II	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY I, 90% CATEGORY II, 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 3	Do/24 MINIMUM; NOT LESS THAN 3". IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6".	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY I, 90% CATEGORY II, 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE Do/12 MINIMUM, NOT LESS THAN 6".	NO COMPACTION REQUIRED EXCEPT IF CATEGORY III, USE 85% CATEGORY III	NO COMPACTION REQUIRED EXCEPT IF CATEGORY III, USE 85% CATEGORY III	NO COMPACTION REQUIRED EXCEPT IF CATEGORY III, USE 85% CATEGORY III

RCP STORM PIPE BEDDING DETAIL

SCALE: NTS



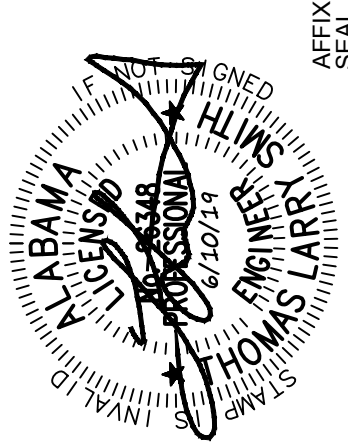
Know whats below.
Call before you dig.

REVISION	DATE



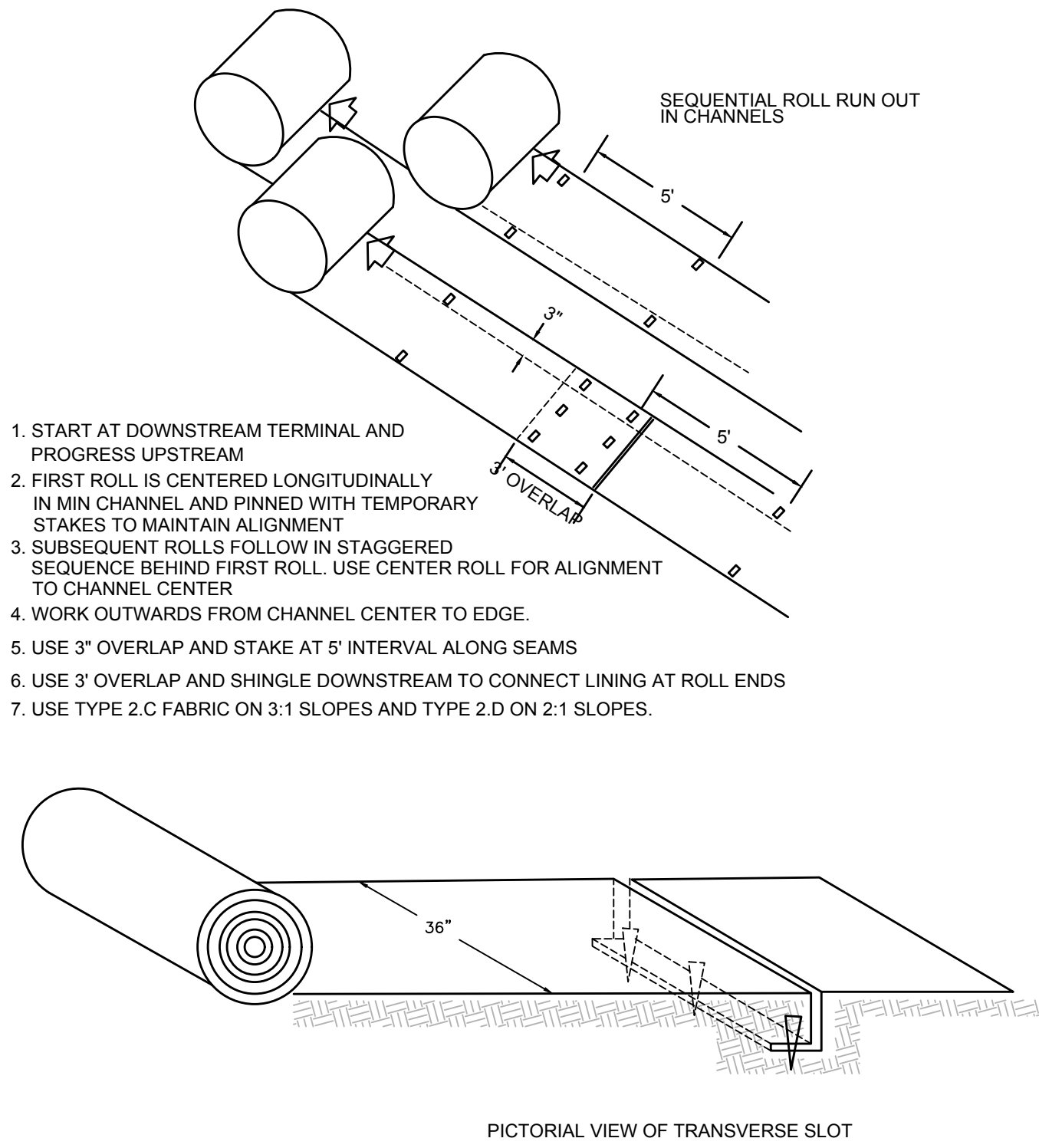
CONSTRUCTION DETAILS

N. Mobile Street
Drainage Improvements
Fairhope, Alabama 36532



JOB No. 20190436	DATE 6/10/19
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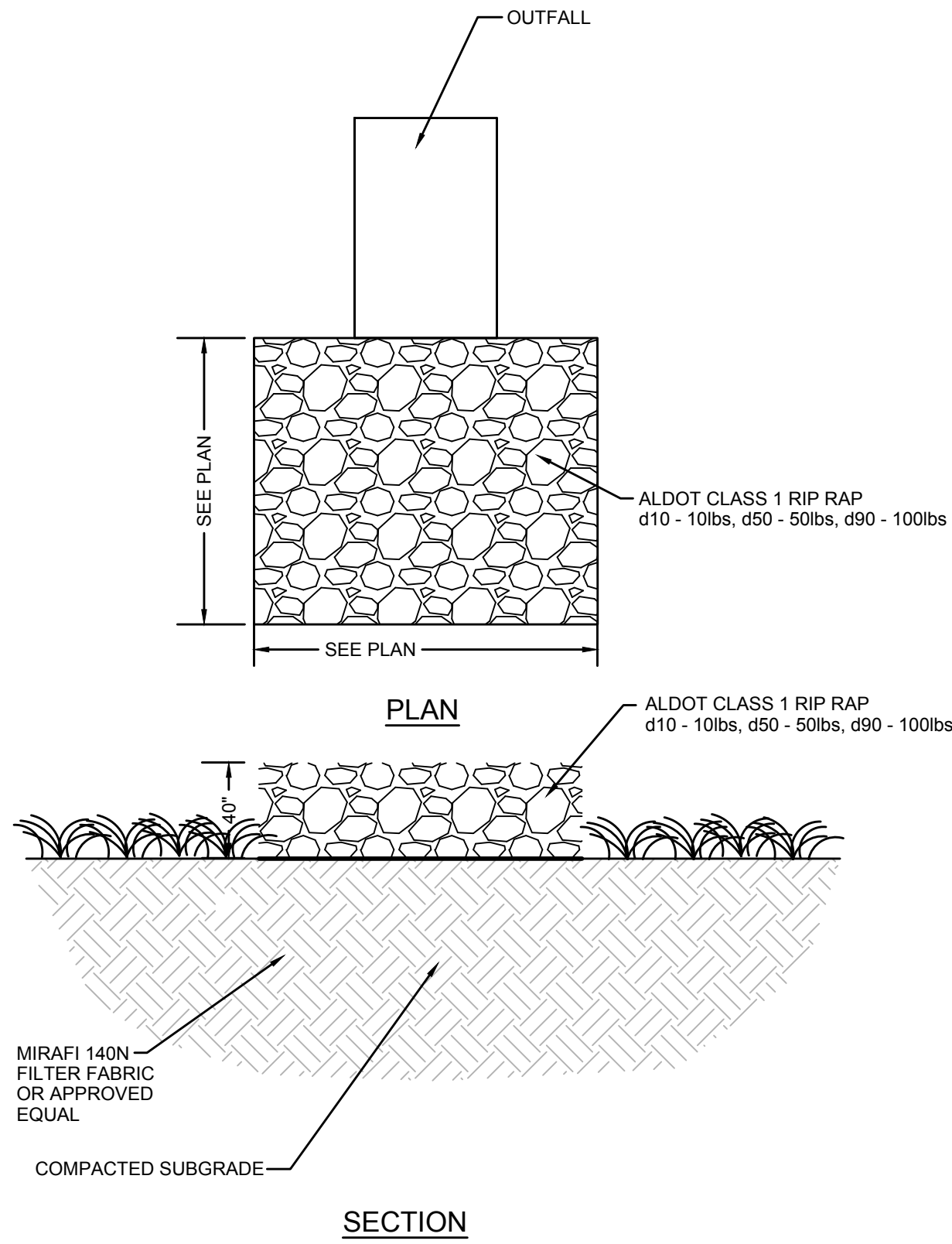
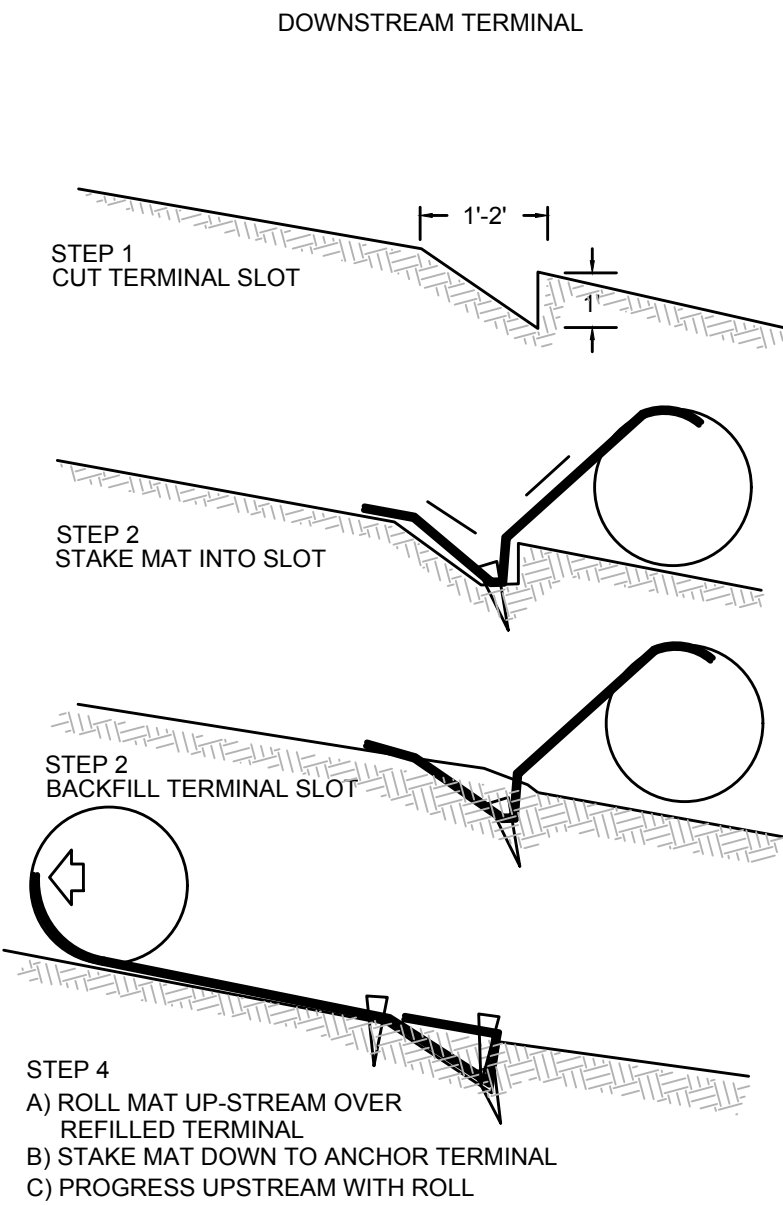
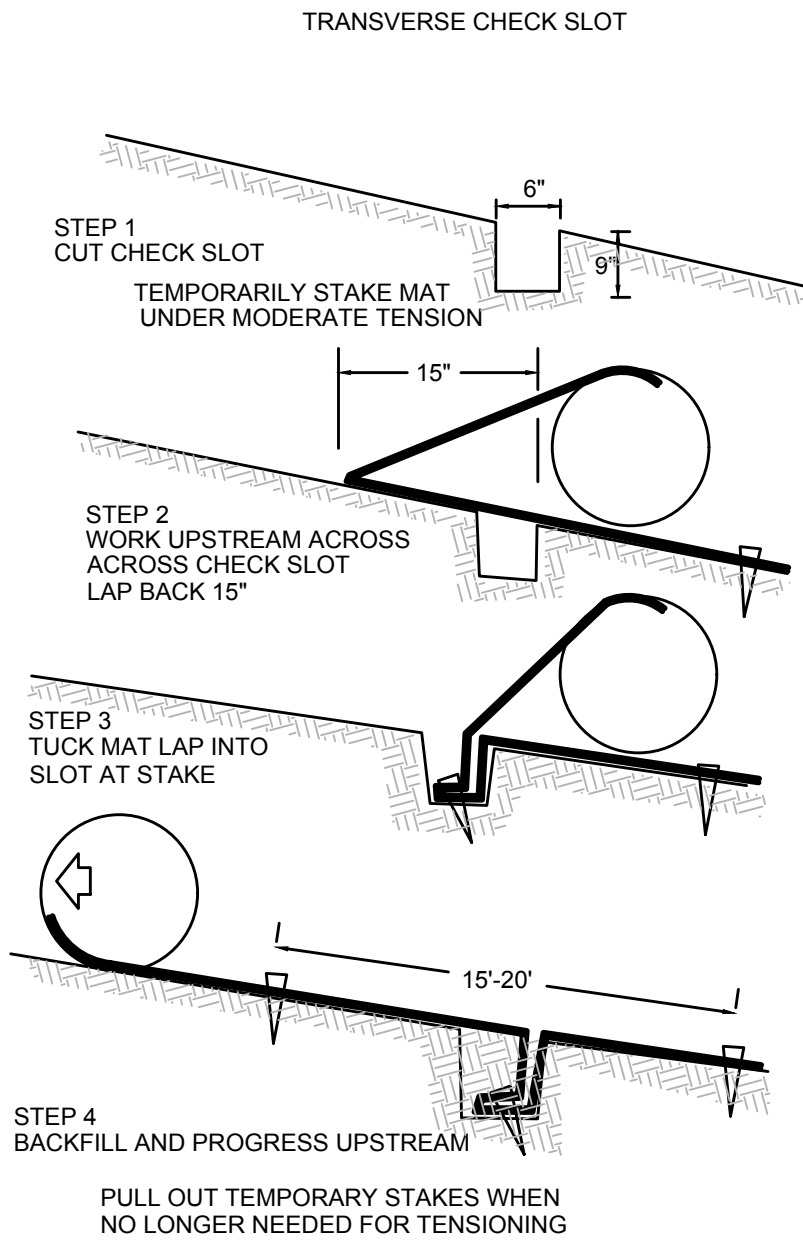
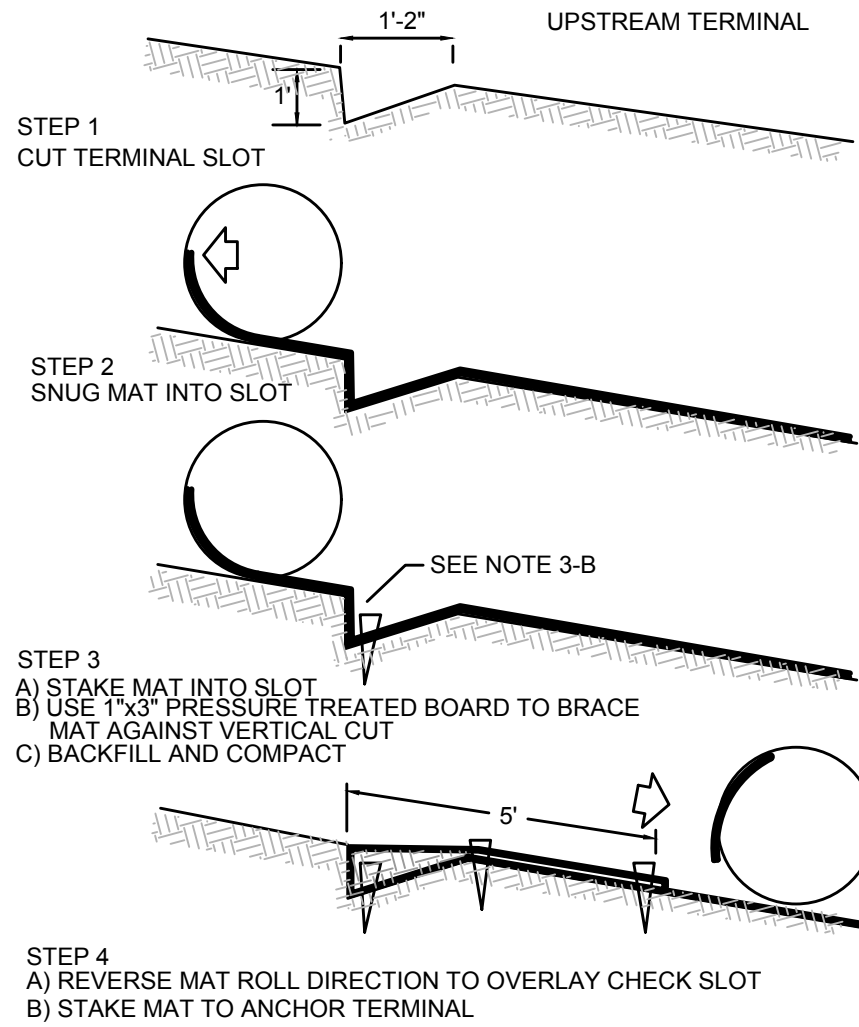
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1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MIN CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS
6. USE 3" OVERLAP AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS
7. USE TYPE 2.C FABRIC ON 3:1 SLOPES AND TYPE 2.D ON 2:1 SLOPES.

Erosion Control Matting Maintenance Note:
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any dislocation or failure should be repaired immediately. If washouts or breakage occurs, reinstall the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

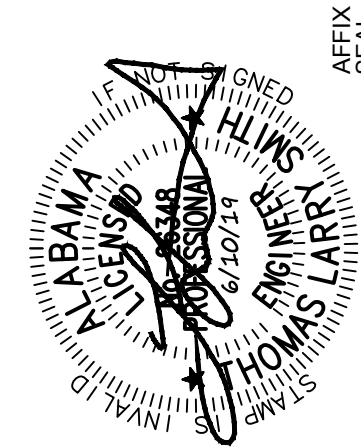
ECB EROSION CONTROL BLANKET
SCALE: NTS



OP OUTLET PROTECTION (RIP RAP)
SCALE: NTS

CONSTRUCTION DETAILS

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C06

