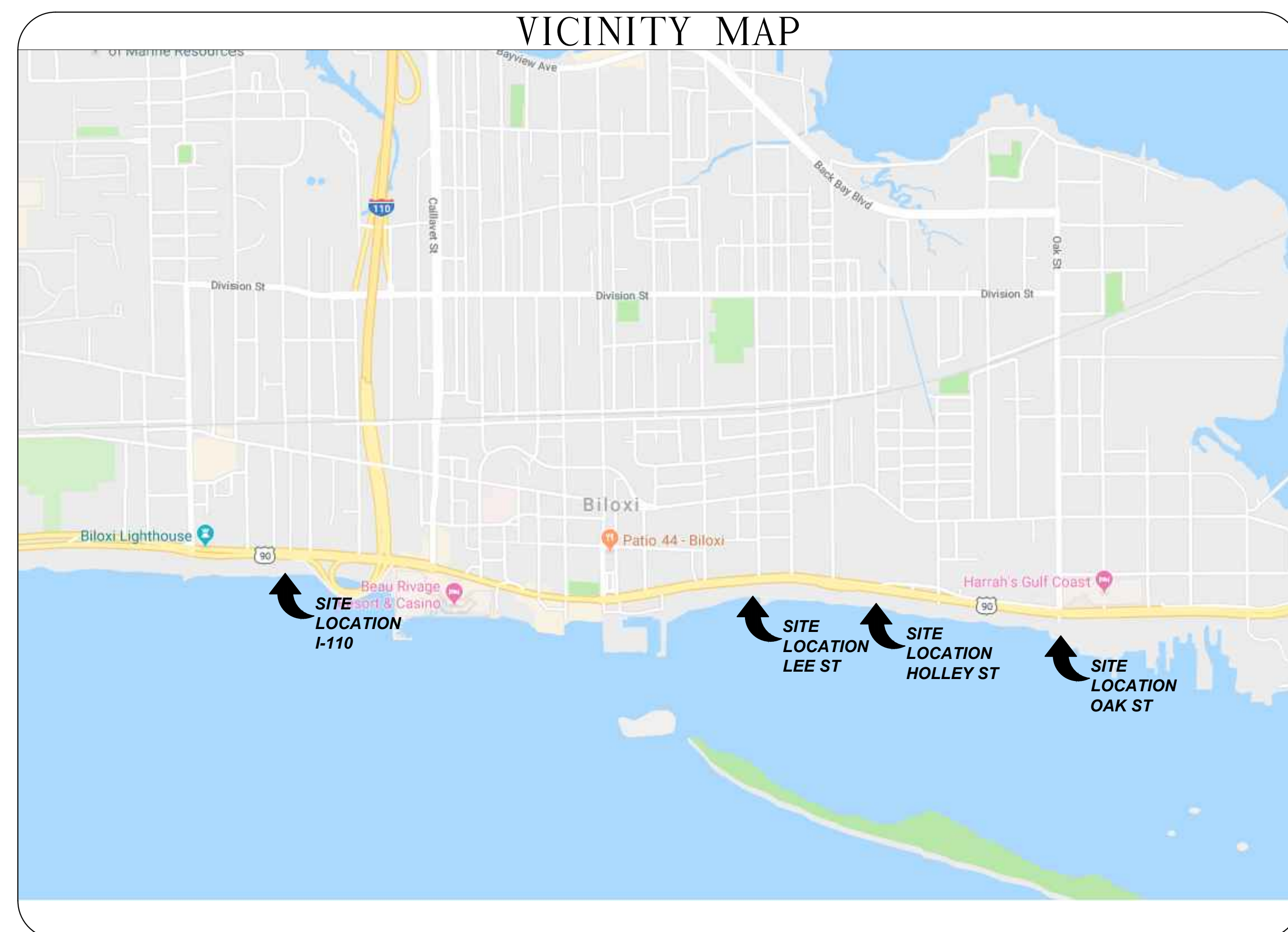
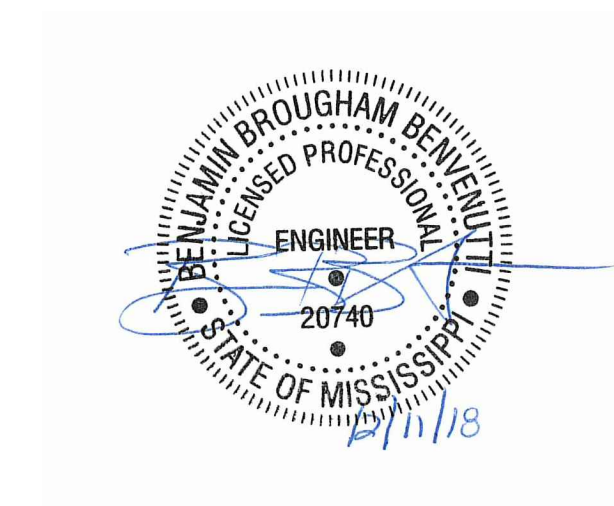


DESIGN PLANS
FOR
STORM WATER OUTFALLS
PHASE I

BILOXI, MISSISSIPPI
HARRISON COUNTY

DECEMBER 2018



N.T.S.



GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION SHOWN WAS PROVIDED BY TICE ENGINEERING.
2. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR IS DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS DEEMED NECESSARY TO ARRIVE AT HIS/HER OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH HIS/HER BID WILL BE BASED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP ALL THE MATERIAL OFF THE STREET AND RIGHT OF WAY DAILY AS A RESULT OF ITS CONSTRUCTION ACTIVITIES DURING THE CONTRACT.
4. CONTRACTOR SHALL NOT ACCESS OR PLACE ANY MATERIAL ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND SECURE A LAY DOWN YARD FOR MATERIAL AND EQUIPMENT, AS WELL AS CONTRACTOR FACILITIES, IF NECESSARY. FINAL LOCATION TO BE COORDINATED WITH OWNER.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS (DRAWINGS, SPECIFICATIONS, ADDENDA, AND CHANGE ORDERS). THE CONTRACTOR SHALL HAVE THE LATEST UPDATED VERSION OF THE PREVIOUSLY NAMED DOCUMENTS AT THE WORK SITE AT ALL TIMES.
7. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION METHODS OR TECHNIQUES, NOR FOR THE EXECUTION OF THE WORK AS SHOWN ON THESE DRAWINGS. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURES OF ANY OF THE CONTRACTORS OR SUBCONTRACTORS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. ANY PROPOSED DEVIATION FOR THE CONTRACT DOCUMENTS BY THE CONTRACTOR, INCLUDING DRAWINGS AND/OR SPECIFICATIONS, MUST BE ACCEPTED BY THE ENGINEER, IN WRITING, PRIOR TO THE WORK BEING DONE. ANY DEVIATIONS PERFORMED WITHOUT THE ENGINEER'S WRITTEN ACCEPTANCE WILL NOT BE PAID FOR AND MAY HAVE TO BE REDONE OR REMOVED AT THE CONTRACTOR'S EXPENSE. IF APPROVED, CONTRACTOR WILL ACCEPT ALL DOWNSTREAM IMPACTS, EITHER FORESEEN OR UNFORESEEN.
9. SOILS EXPLORATION WORK FOR THIS PROJECT WAS PERFORMED BY QES. SOIL EXPLORATION WORK IS SOLELY TO ASSIST BIDDERS IN ASSESSING THE NATURE AND EXTENT OF TESTING PROCEDURES REQUIRED TO MAKE THEIR OWN DETERMINATION OF ACTUAL CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL REQUIRED TRAFFIC CONTROL DEVICES NEEDED TO PROPERLY EXECUTE THE MDOT TRAFFIC CONTROL PLAN ON C4.0 & C4.1 WITH NO ADDITIONAL COMPENSATION.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FOR CONSTRUCTION PROJECTS OF THIS TYPE. ANY SAFETY MEASURE OR METHODS OF CONSTRUCTION THAT ARE NECESSARY IN THE CONSTRUCTION OF THIS PROJECT TO COMPLY WITH THOSE REGULATION ARE THE CONTRACTOR'S RESPONSIBILITY.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
13. THE ELEVATION OF EXISTING TOPOGRAPHY SHOWN MAY VARY. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INITIATING CONSTRUCTION.
14. CONTRACTOR SHALL CONTACT THE PROPER UTILITY PRIOR TO PROCEEDING WITH WORK WHICH INVOLVES OR AFFECTS EXISTING FEATURES OR AFFECTS EXISTING UTILITIES.
15. CONTRACTOR SHALL ESTABLISH AND MAINTAIN PROPERTY LINES, CORNERS, EASEMENTS AND EROSION/SEDIMENTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND INSTALLING ANY EXISTING SURVEY MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION.
16. THE CONTRACTOR IS RESPONSIBLE FOR ALL CITY OF BILOXI PERMITS WHICH ARE REQUIRED PRIOR TO CONSTRUCTION.
17. ALL UTILITIES SHALL BE PROTECTED FROM DAMAGE AS A RESULT OF THE WORK. THE CONTRACTOR SHALL RELOCATE, REPAIR OR REPLACE ANY DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER AND CITY OF BILOXI.
18. DEMOLITION WORK WILL REQUIRE COORDINATION TO MAINTAIN OPERATIONS OF HWY 90 AND MINIMIZE DISTURBANCE TO THE GENERAL PUBLIC. IN GENERAL, EXISTING STRUCTURES AND FACILITIES WHICH ARE TO BE DEMOLISHED ARE SHOWN ON DEMOLITION SHEETS.
19. ALL KNOWN EXISTING BURIED PIPING, ELECTRICAL DUCT BANKS AND OTHER BURIED UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION AND ARE FOR INFORMATIONAL PURPOSES TO INDICATE THE EXISTENCE OF SUCH UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND EXPOSING BURIED PIPE, ELECTRICAL DUCT BACK AND OTHER ON SITE UTILITIES PRIOR TO COMMENCING WORK.
20. WHERE CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
21. UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
22. CONTRACTOR MUST CALL 811, MISSISSIPPI ONE CALL, PRIOR TO COMMENCING WORK.
23. CONTRACTOR SHALL TAKE PRECAUTION WHEN WORKING IN THE PRESENCE OF OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE BRACING AND PROTECTION OF THE OVERHEAD POWER LINES AND UTILITY POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH MS POWER AND ANY ASSOCIATED FEES REQUIRED TO MAINTAIN POWER SERVICES TO ADJACENT PROPERTY OWNERS.
24. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
25. ALL WORK DETAILED IN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED BY THE CONTRACTOR REGARDLESS IF A SPECIFIC PAY ITEM IS IDENTIFIED FOR EACH WORK ITEM OR NOT. IF A PAY ITEM IS NOT IDENTIFIED FOR THE WORK ITEM DETAILED IN THE CONTRACT DOCUMENTS, THE COST TO COMPLETE THAT WORK SHALL BE ABSORBED IN THE CONTRACTORS OVERALL COST.

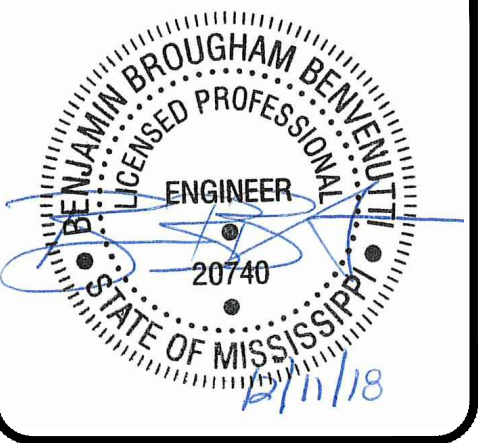
INDEX OF SHEETS

- T1.0 COVER SHEET
- G1.0 GENERAL NOTES & INDEX
- C1.0 EXISTING CONDITIONS - HOLLEY ST
- C1.1 EXISTING CONDITIONS - LEE ST
- C1.2 EXISTING CONDITIONS - I-110
- C1.3 EXISTING CONDITIONS - OAK ST
- C2.0 SITE PLAN - HOLLEY ST
- C2.1A PROFILE VIEW - HOLLEY ST EAST
- C2.1B PROFILE VIEW - HOLLEY ST WEST
- C2.2 SITE PLAN - LEE ST
- C2.3 PROFILE VIEW - LEE ST
- C2.4 SITE PLAN - I-110
- C2.5 PROFILE VIEW - I-110
- C2.6 SITE PLAN - OAK ST
- C2.7 PROFILE VIEW - OAK ST
- C3.0 CIVIL DETAILS
- C3.1 CIVIL DETAILS
- C3.2 CIVIL DETAILS
- C3.3 CIVIL DETAILS
- C3.4 CIVIL DETAILS
- C4.0 LANE CLOSURE DETAILS
- C4.1 LANE CLOSURE DETAILS
- S1.0 LEGEND, NOTES AND ABBREVIATIONS
- S2.0 CONSTRUCTION DETAILS
- S2.1 JOINT PLAN
- S2.2 MATCHLINE SECTION
- S2.3 MATCHLINE SECTION
- S2.4 MATCHLINE SECTION
- A-001 OUTFALLS PLAN & ELEVATION-LEE STREET
- A-002 OUTFALLS PLAN & ELEVATION-HOLLEY STREET
- A-003 OUTFALLS PLAN & ELEVATION-I-110
- A-211 PANEL ELEVATIONS
- A-212 PANEL ELEVATIONS
- A-213 PANEL ELEVATIONS
- A-214 PANEL ELEVATIONS
- A-301 SECTION DETAILS
- A-701 RAILING DETAILS



CIVIL AND ENVIRONMENTAL

2510 14TH STREET, SUITE 1010
GULFPORT, MISSISSIPPI 39501
Office: (228)396-0486



NO.	DATE	REVISION / ISSUE			

STORMWATER OUTFALLS -
PHASE I

GENERAL
NOTES & INDEX

DATE
12-11-18

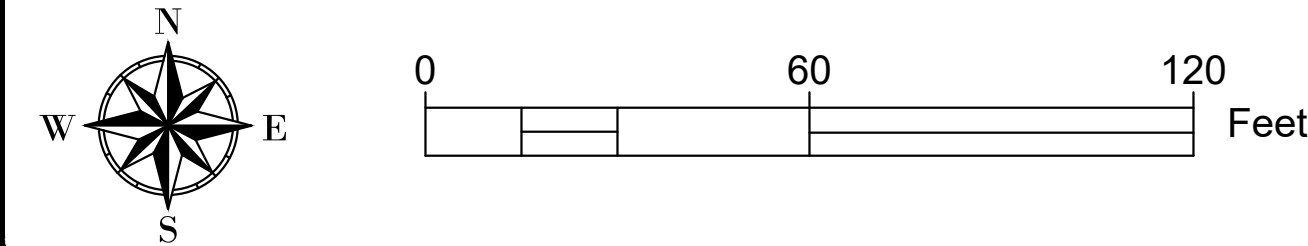
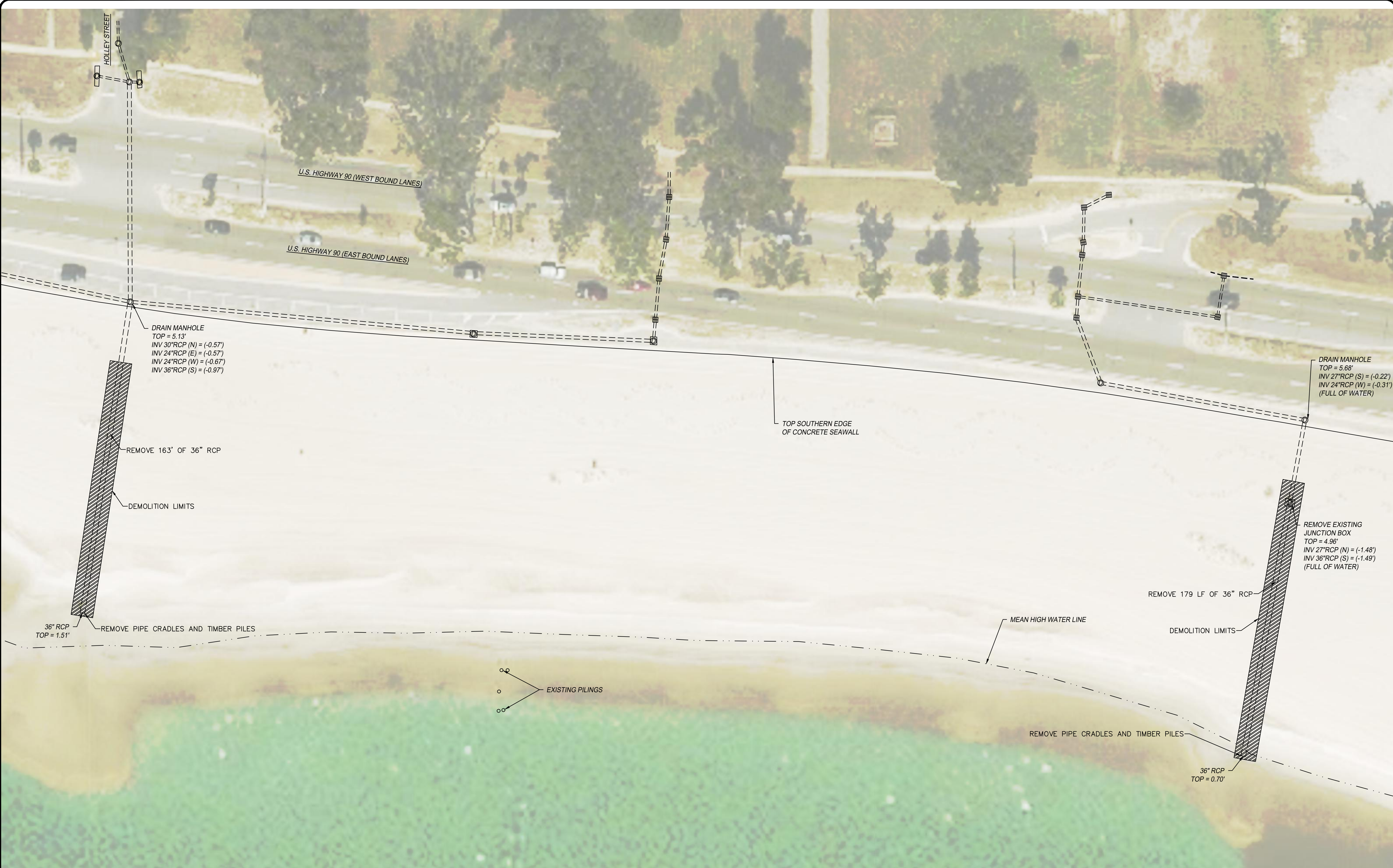
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DRAWN
BY TMK

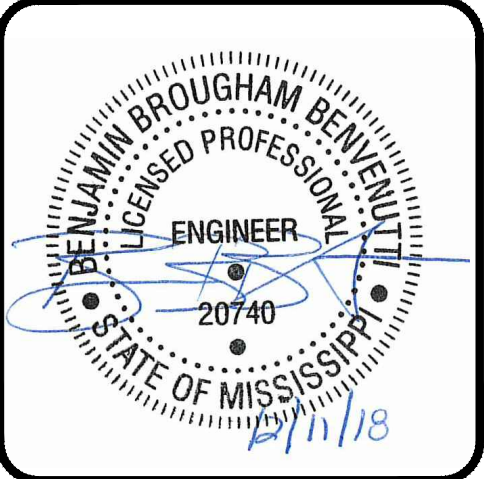
PROJECT
NO. -

SHEET NUMBER

G1.0



- DEMOLITION NOTES:**
1. ALL CONCRETE PIPE AND STRUCTURES TO BE REMOVED DURING DEMOLITION SHALL BE DELIVERED TO MDMR STORAGE YARD LOCATED ON REICHOLD RD IN GULFPORT, MS OR REMOVED AND DISPOSED OF AT CONTRACTORS EXPENSE AS DIRECTED BY ENGINEER. NO SEPARATE PAYMENT SHALL BE PROVIDED.
 2. CONTRACTOR SHALL REPAIR AT HIS OWN EXPENSE ANY DAMAGE TO ROADWAYS, PARKING LOTS, STRUCTURES AND OTHER IMPROVEMENTS NOT SHOWN TO BE REMOVED.
 3. TIMBER PILES SHALL BE REMOVED TO A MINIMUM ELEVATION OF -10.00.



NO.	DATE	REVISION / ISSUE			

**STORMWATER OUTFALLS -
PHASE I**

EXISTING CONDITIONS AND DEMOLITION PLAN - HOLLEY ST	
DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C1.0
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO. -	



* NOTE:
LOCATION OF DRAINAGE STRUCTURE,
AND INVERTS OF PIPES, ARE CALCULATED
FROM AS-BUILT PLANS AND PIPE GRADES
OBTAINED IN THE FIELD

* JUNCTION BOX
(APPROXIMATE LOCATION)
INV 33"RCP (S) (WEST PIPE) = (-0.7' ±) *
INV 33"RCP (S) (EAST PIPE) = (-0.6' ±) *
INV 30"RCP (N) = UNKNOWN
INV 24"RCP (E) = UNKNOWN
INV 24"RCP (W) = UNKNOWN

DRAIN MANHOLE
TOP = 6.77'
INV 21"RCP (N) = 1.87'
INV 24"RCP (W) = 1.77'

TOP SOUTHERN EDGE
OF CONCRETE SEAWALL

REMOVE 161 LF OF DOUBLE 36" RCP

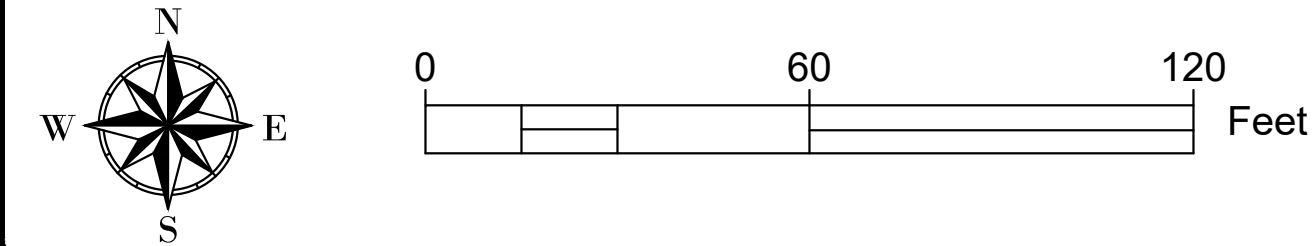
DEMOLITION LIMITS

REMOVE PIPE CRADLES AND TIMBER PILES

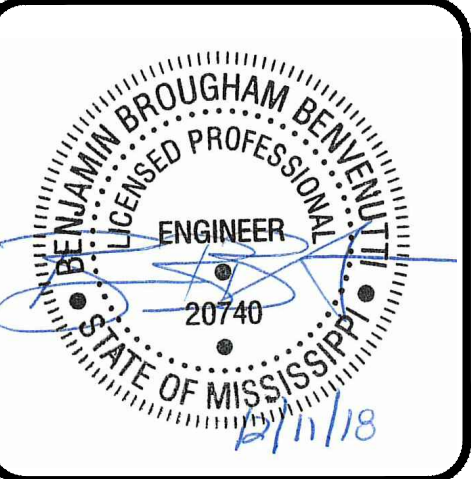
MEAN HIGH WATER LINE

33" RCP
TOP = 0.75'

33" RCP
TOP = 0.86'



- DEMOLITION NOTES:
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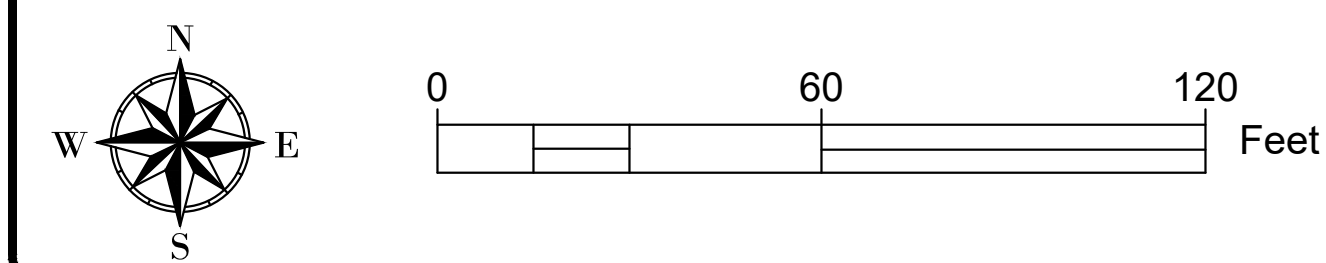
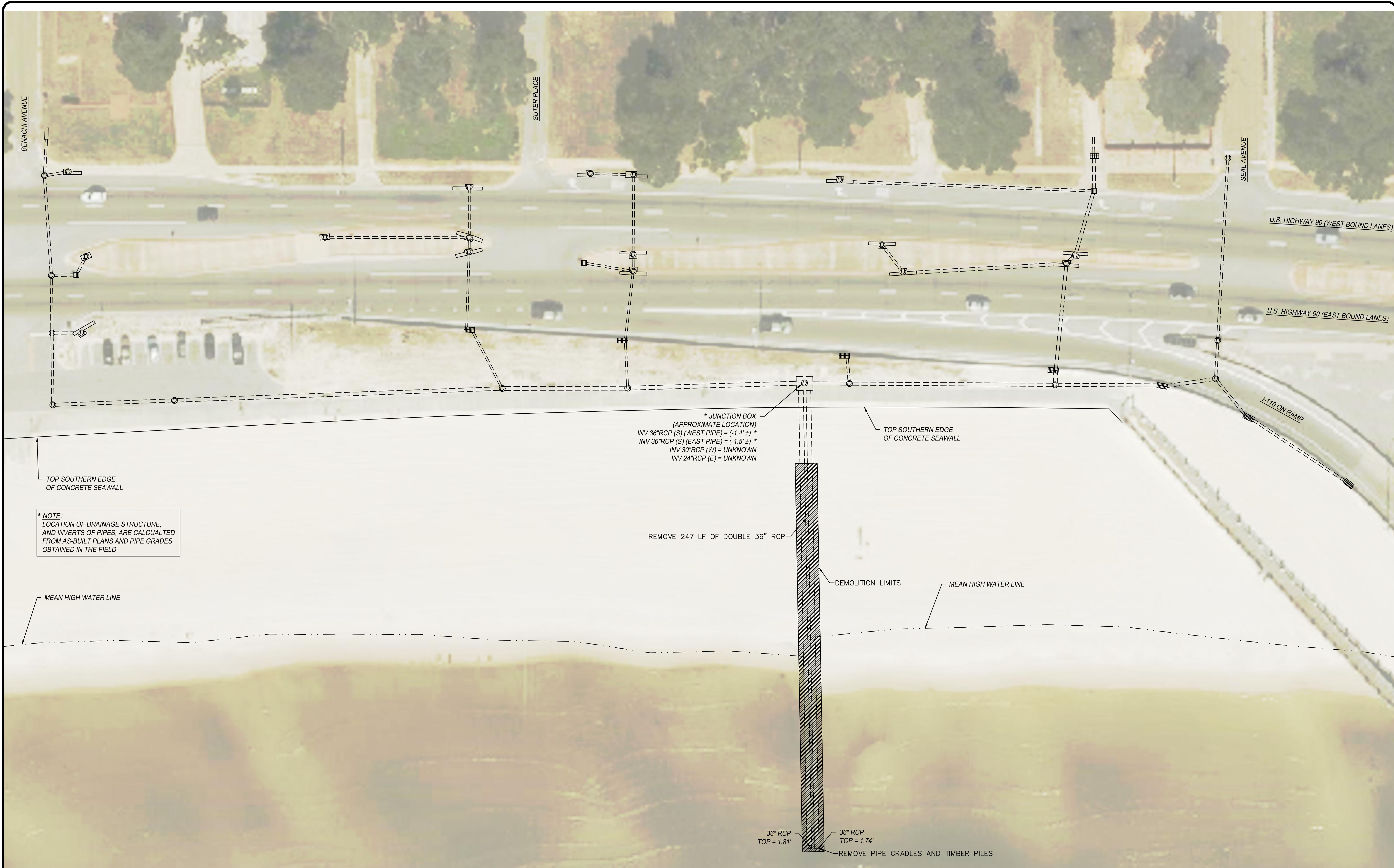


NO.	REVISION / ISSUE				
	DATE				

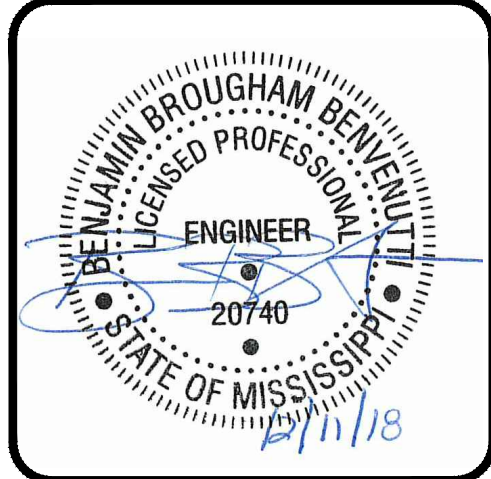
STORMWATER OUTFALLS -
PHASE I

EXISTING
CONDITIONS AND
DEMOLITION PLAN -
LEE ST

DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C1.1
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO.	



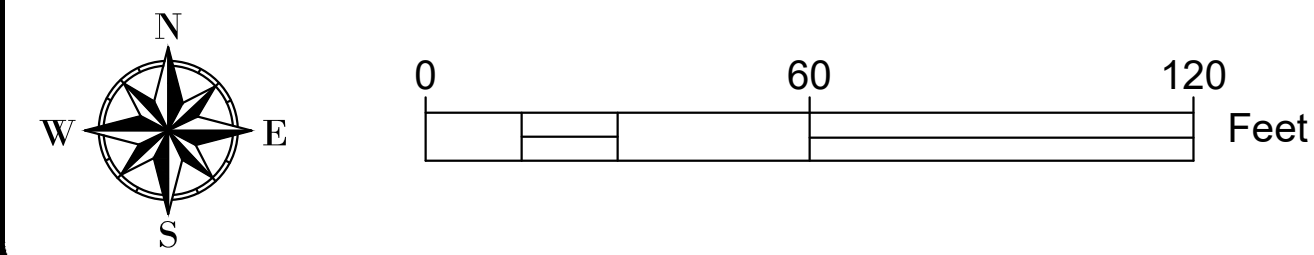
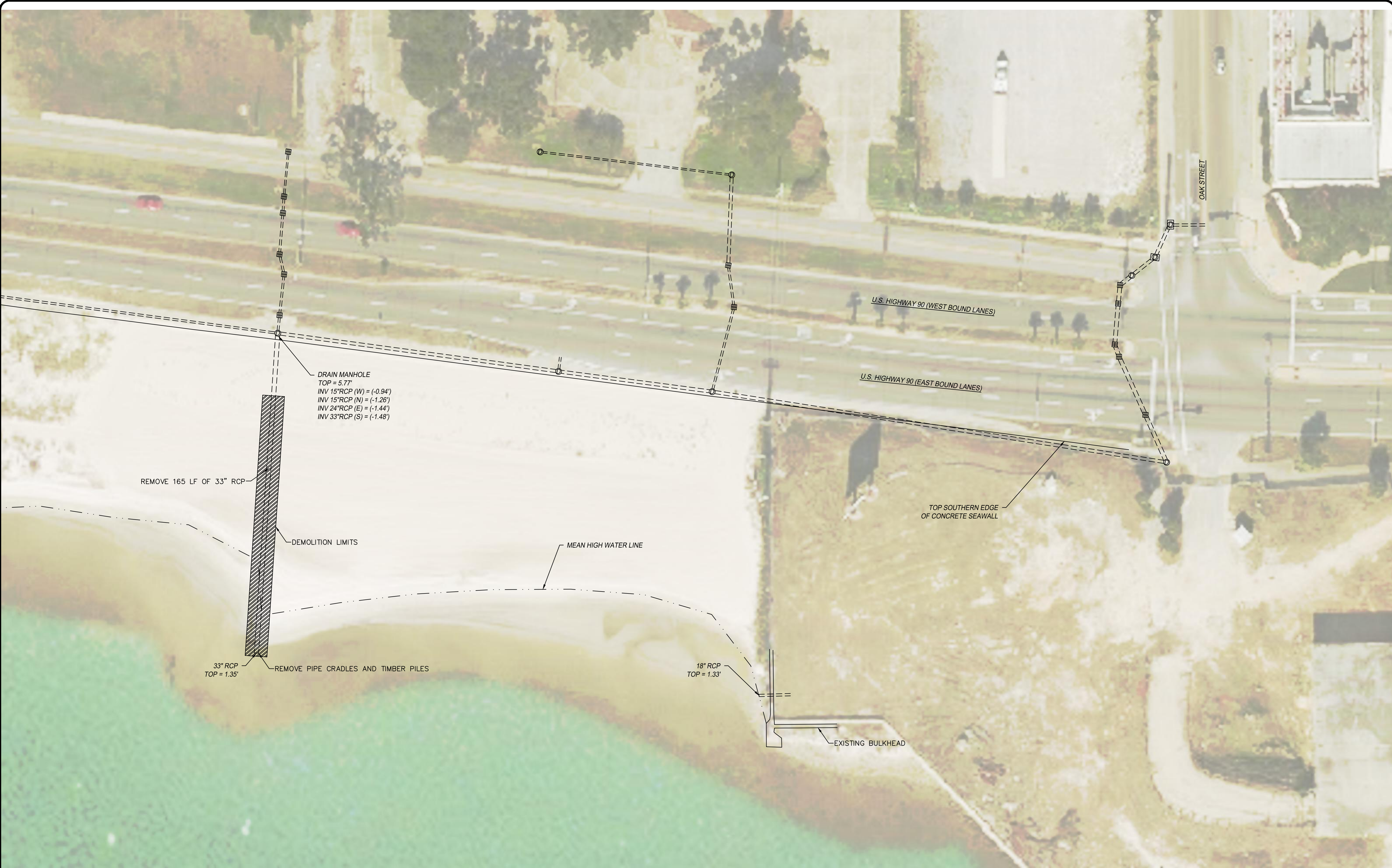
- DEMOLITION NOTES:**
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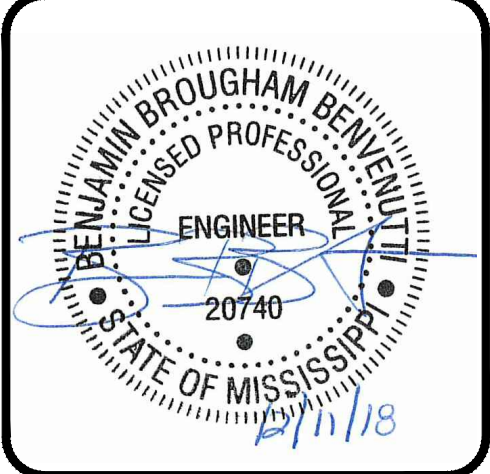
NO.	DATE	REVISION / ISSUE

**STORMWATER OUTFALLS -
PHASE I**

EXISTING CONDITIONS AND DEMOLITION PLAN - I-110	
DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C1.2
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO. -	



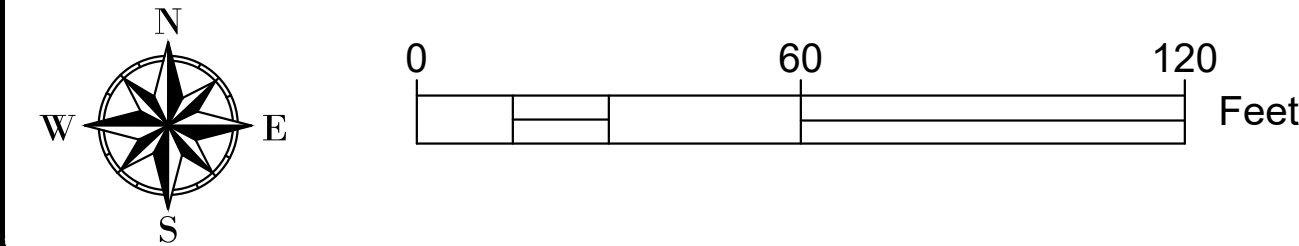
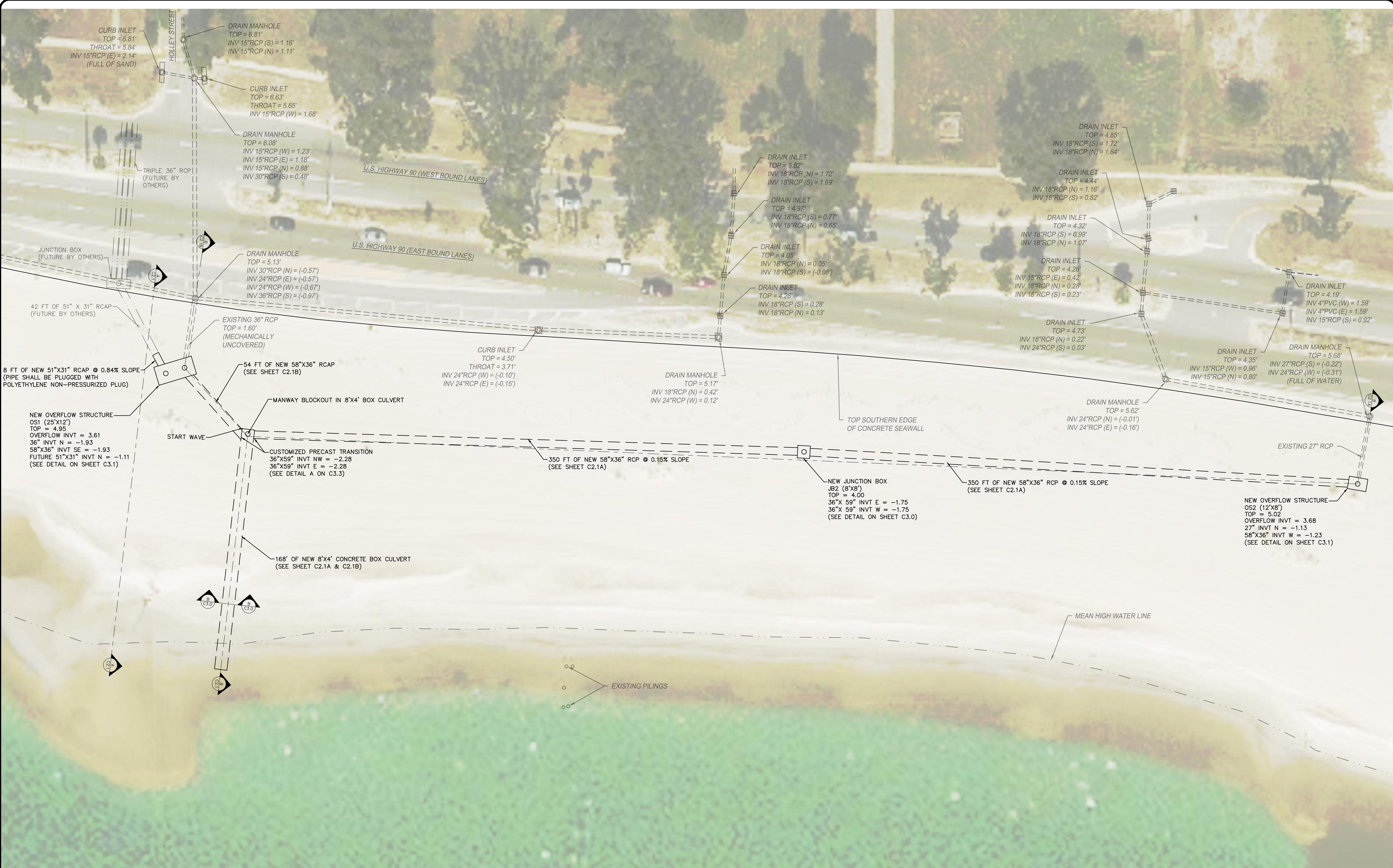
- DEMOLITION NOTES:**
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NO.	DATE	REVISION / ISSUE

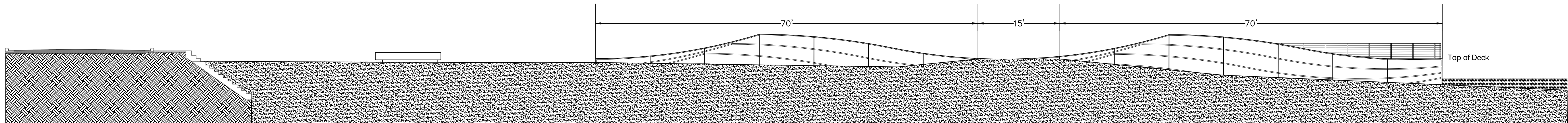
**STORMWATER OUTFALLS -
PHASE I**

EXISTING CONDITIONS AND DEMOLITION PLAN - OAK ST	
DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C1.3
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO.	

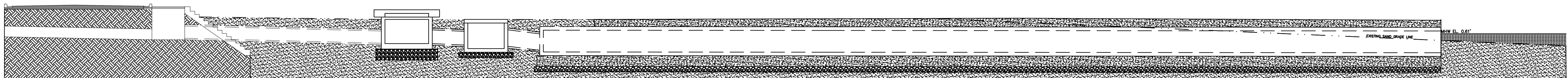


REVISION / ISSUE		DATE	
NO.			

STORMWATER OUTFALLS -
PHASE I



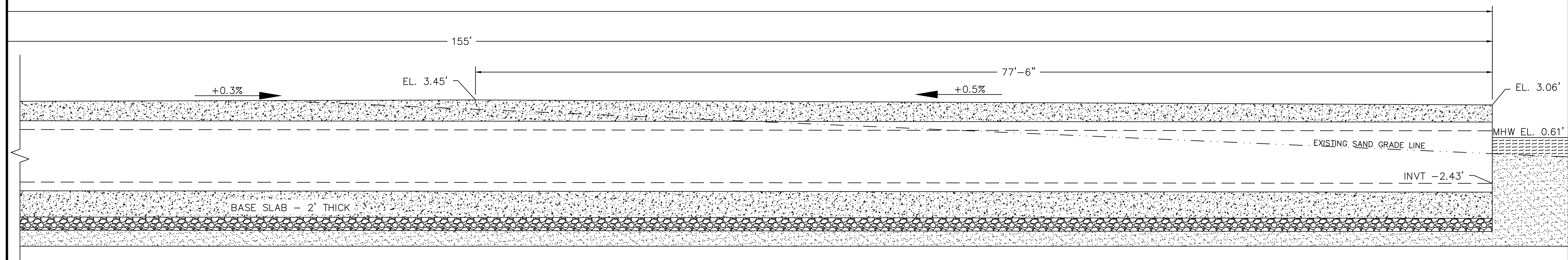
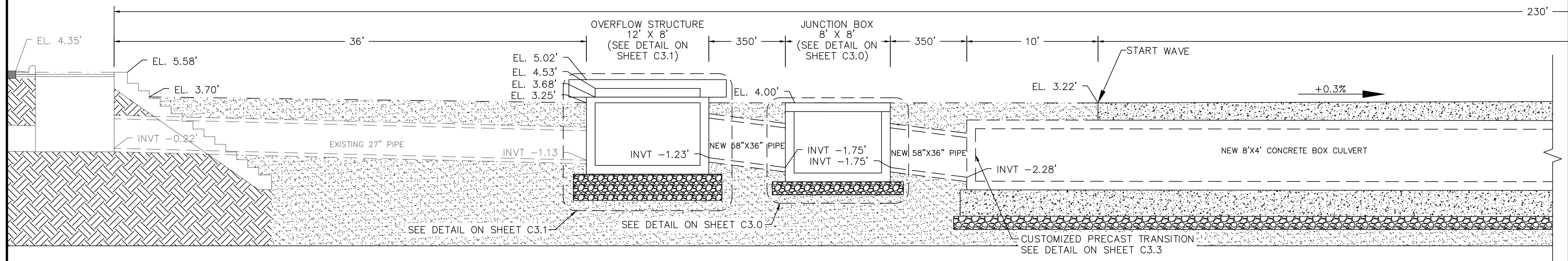
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B PROFILE VIEW
N.T.S.

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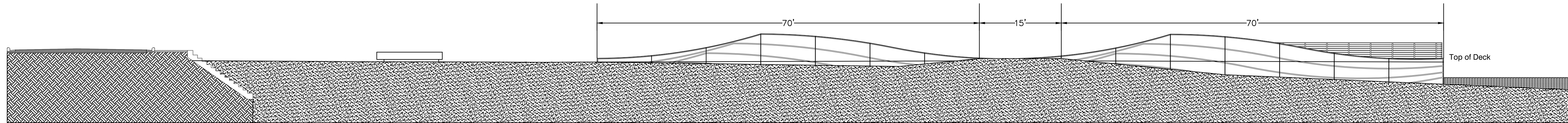
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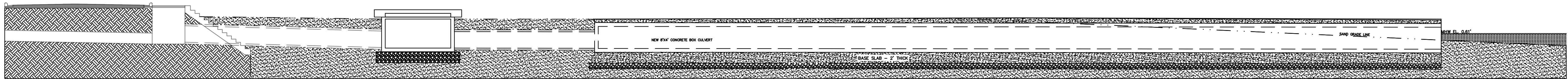
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N.T.S.

NO.	DATE	REVISION / ISSUE

STORMWATER OUTFALLS -
PHASE I



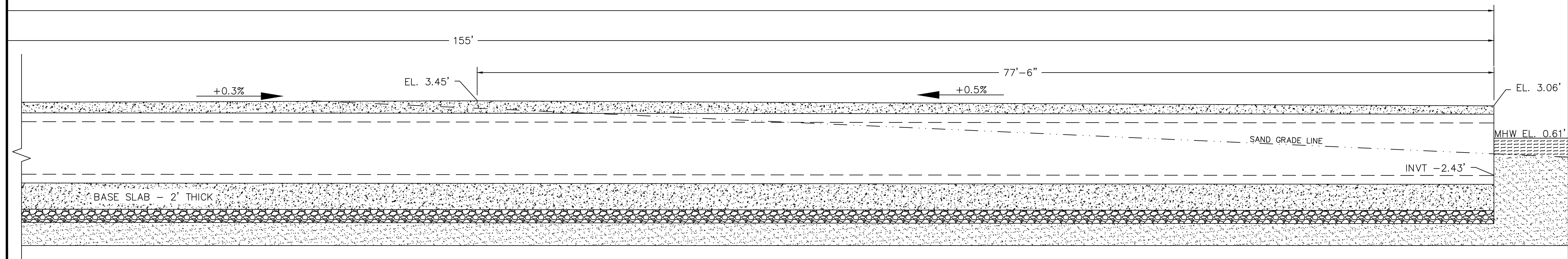
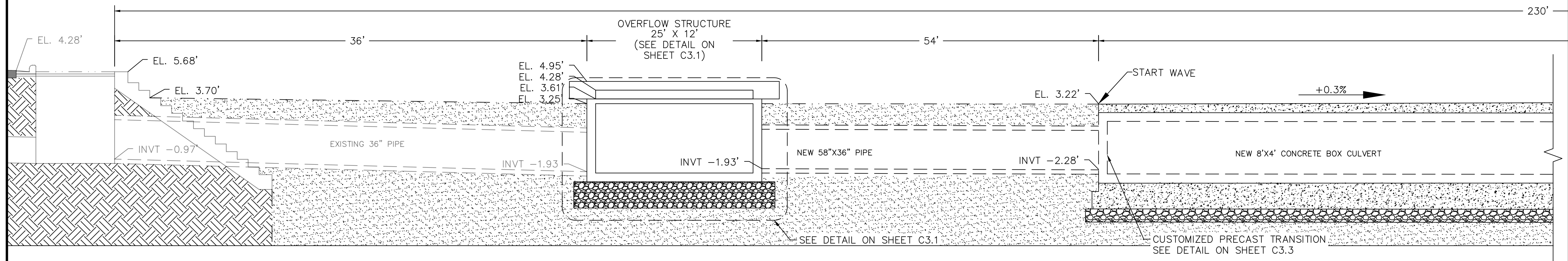
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B PROFILE VIEW
N.T.S.

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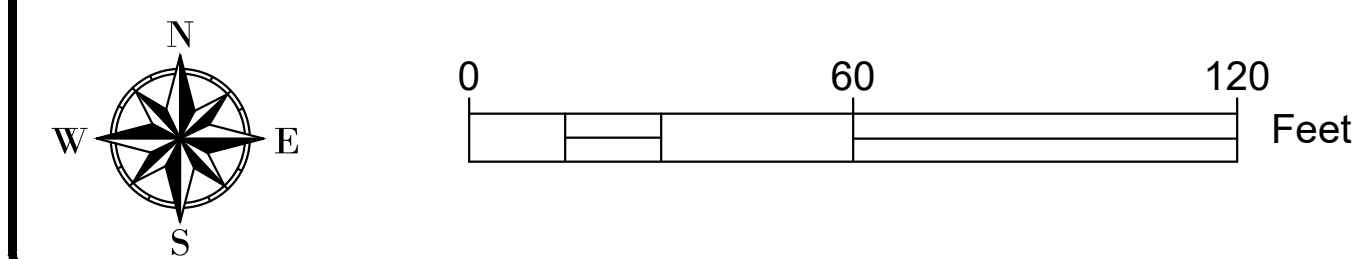
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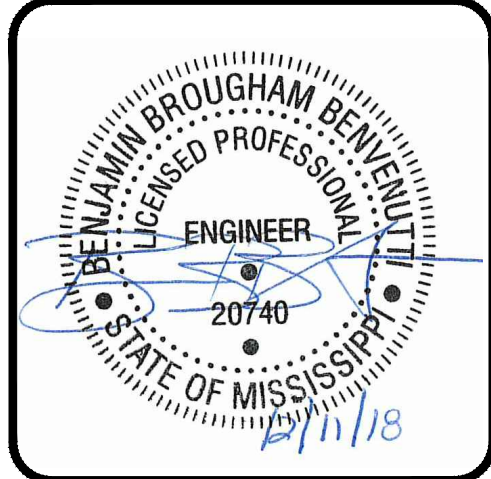
B PROFILE VIEW ENLARGED
N.T.S.

NO.	DATE	REVISION / ISSUE

**STORMWATER OUTFALLS -
PHASE I**



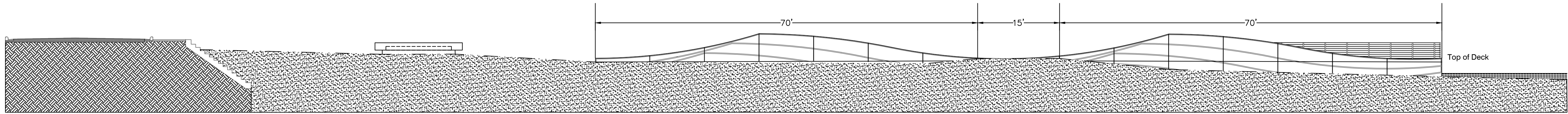
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CORNER	MS STATE PLANE COORDINATES (FT)
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NE	969707.689, 324902.096
SW	969674.268, 324715.060
SE	969709.719, 324709.646



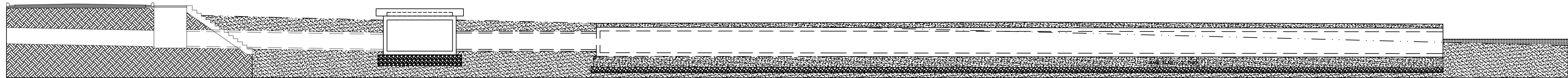
NO.	REVISION / ISSUE				DATE

STORMWATER OUTFALLS -
PHASE I

SITE PLAN - LEE ST	
DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C2.2
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO.	



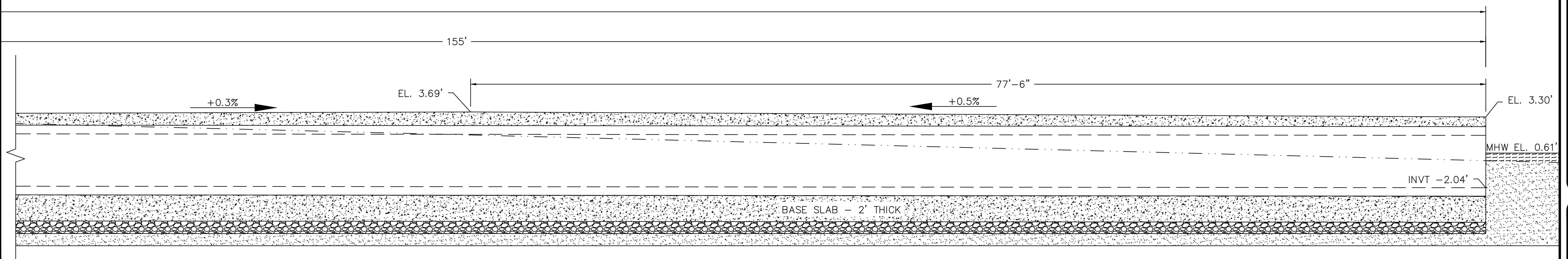
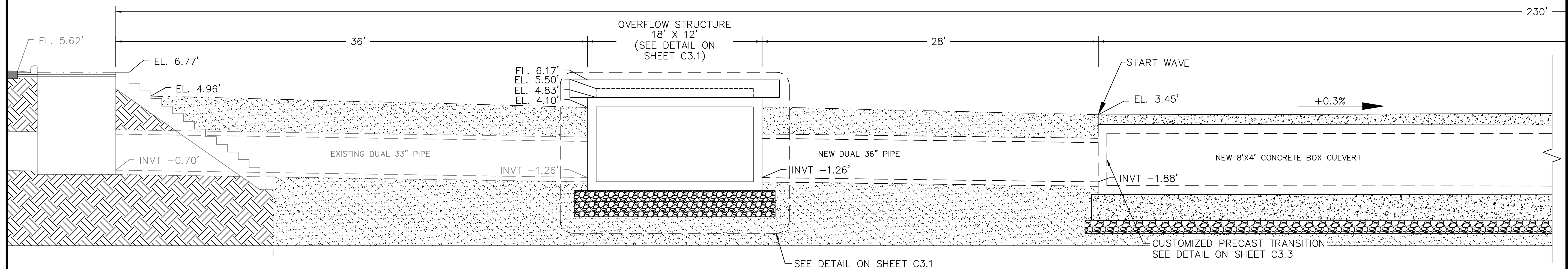
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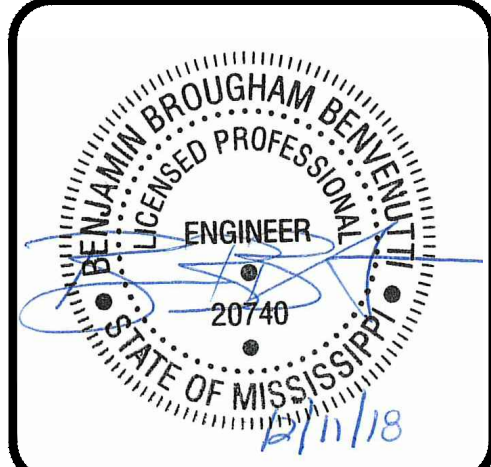
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B PROFILE VIEW ENLARGED
N.T.S.

NO.	DATE	REVISION / ISSUE

STORMWATER OUTFALLS -
PHASE I



NO.	DATE	REVISION / ISSUE			

**STORMWATER OUTFALLS -
PHASE I**

**SITE PLAN -
I-110**

DATE
12-11-18

SCALE
1"=30'

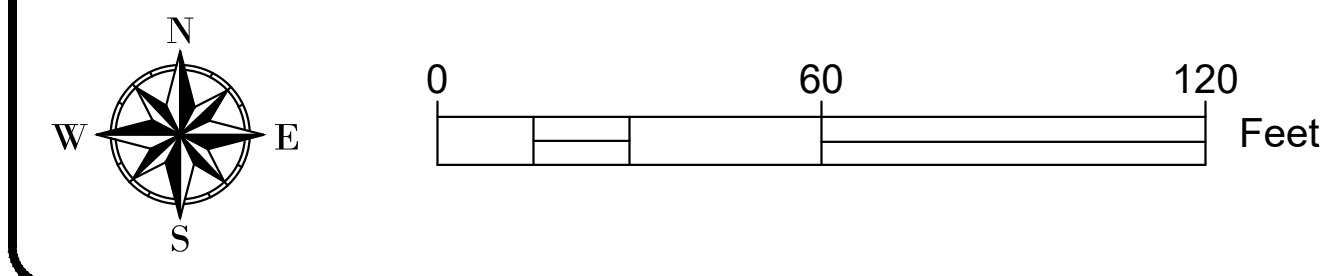
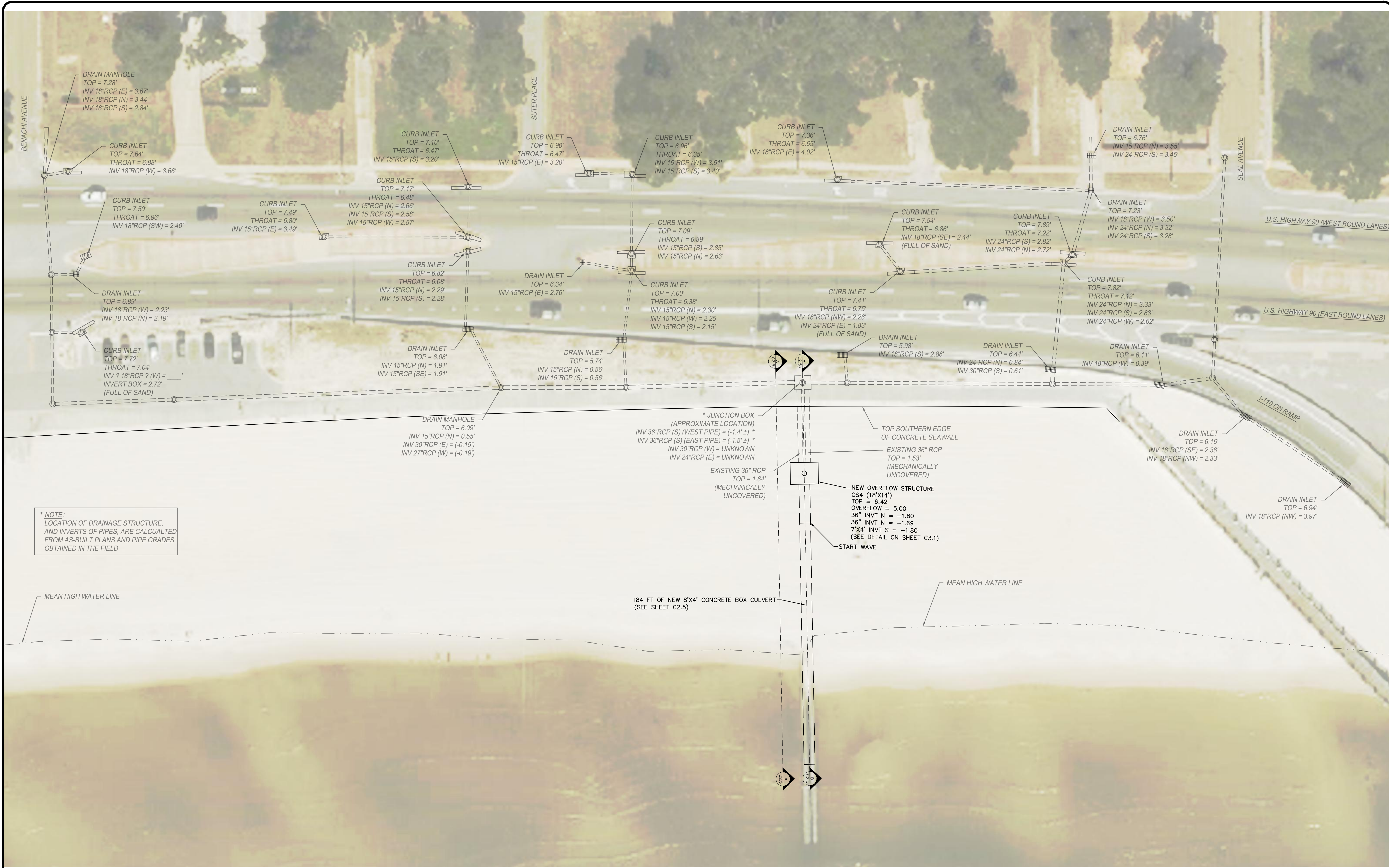
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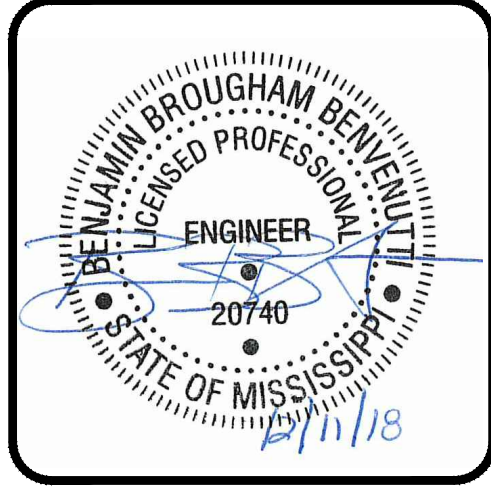
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BBB

PROJECT NO.
-

SHEET NUMBER

C2.4





REVISION / ISSUE	
NO.	DATE

STORMWATER OUTFALLS -
PHASE I

PROFILE VIEW -
I-110

DATE
12-11-18

SCALE
N.T.S.

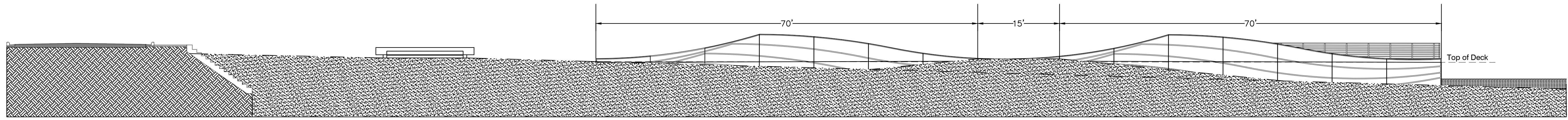
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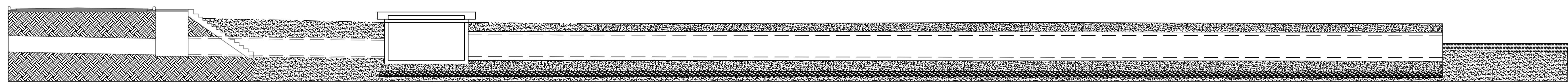
PROJECT
NO. -

SHEET NUMBER

C2.5

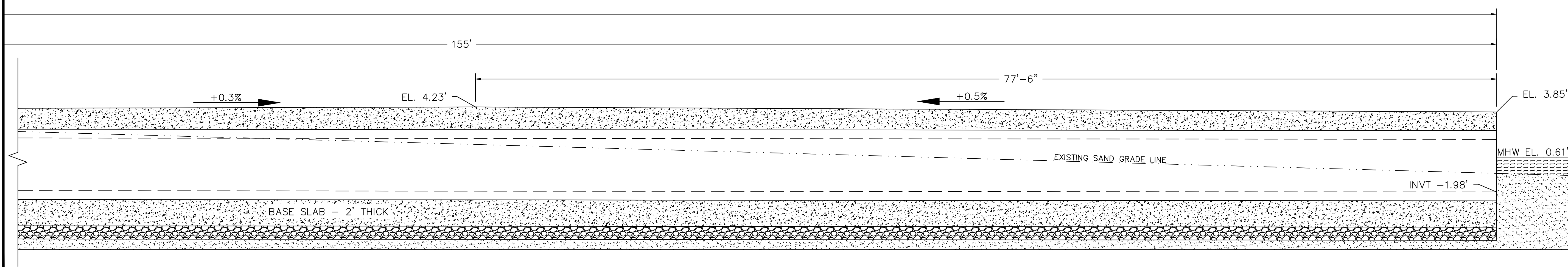
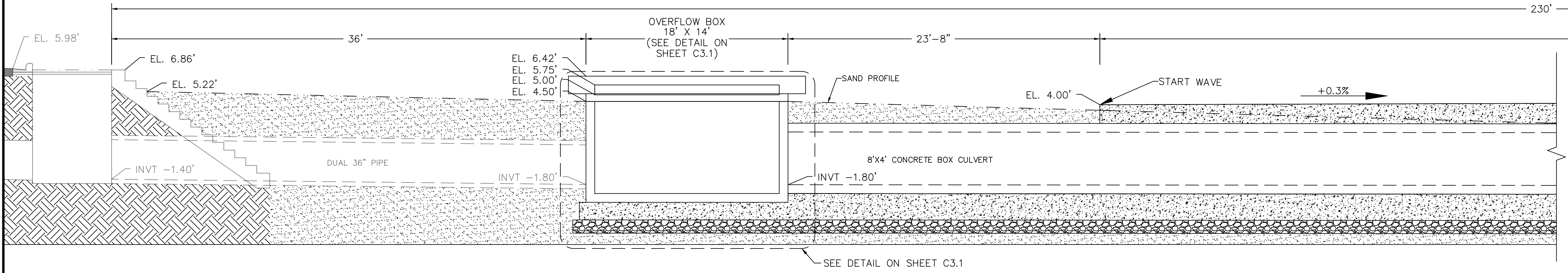


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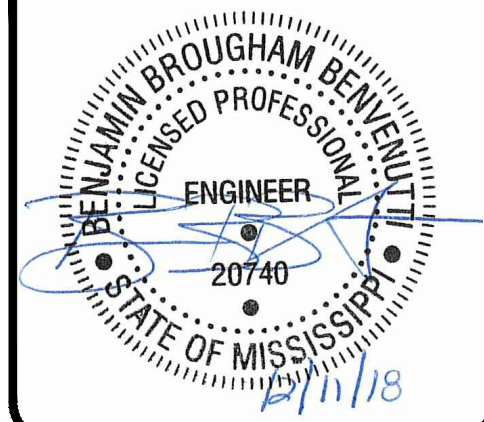


B PROFILE VIEW
N.T.S.

- NOTES:
- SAND ELEVATIONS MAY VARY. CONTRACTOR SHALL GRADE SAND AT A 1:50 SLOPE AWAY FROM JUNCTION BOX UNTIL NATURAL GRADE IS REACHED OR AS DIRECTED BY ENGINEER



B PROFILE VIEW ENLARGED
N.T.S.

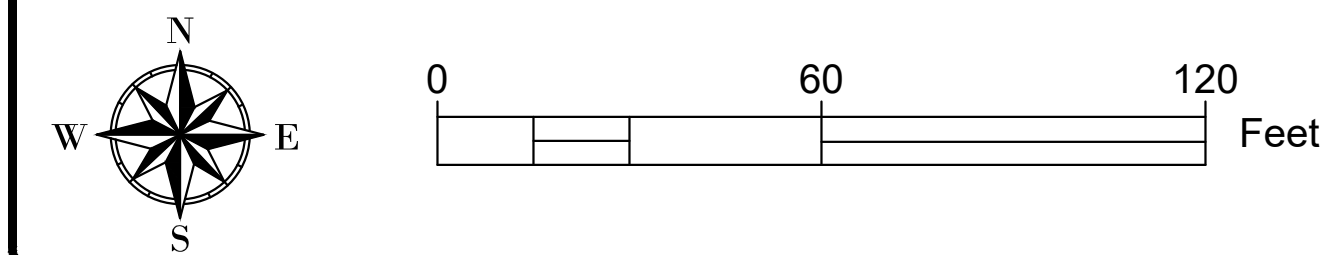
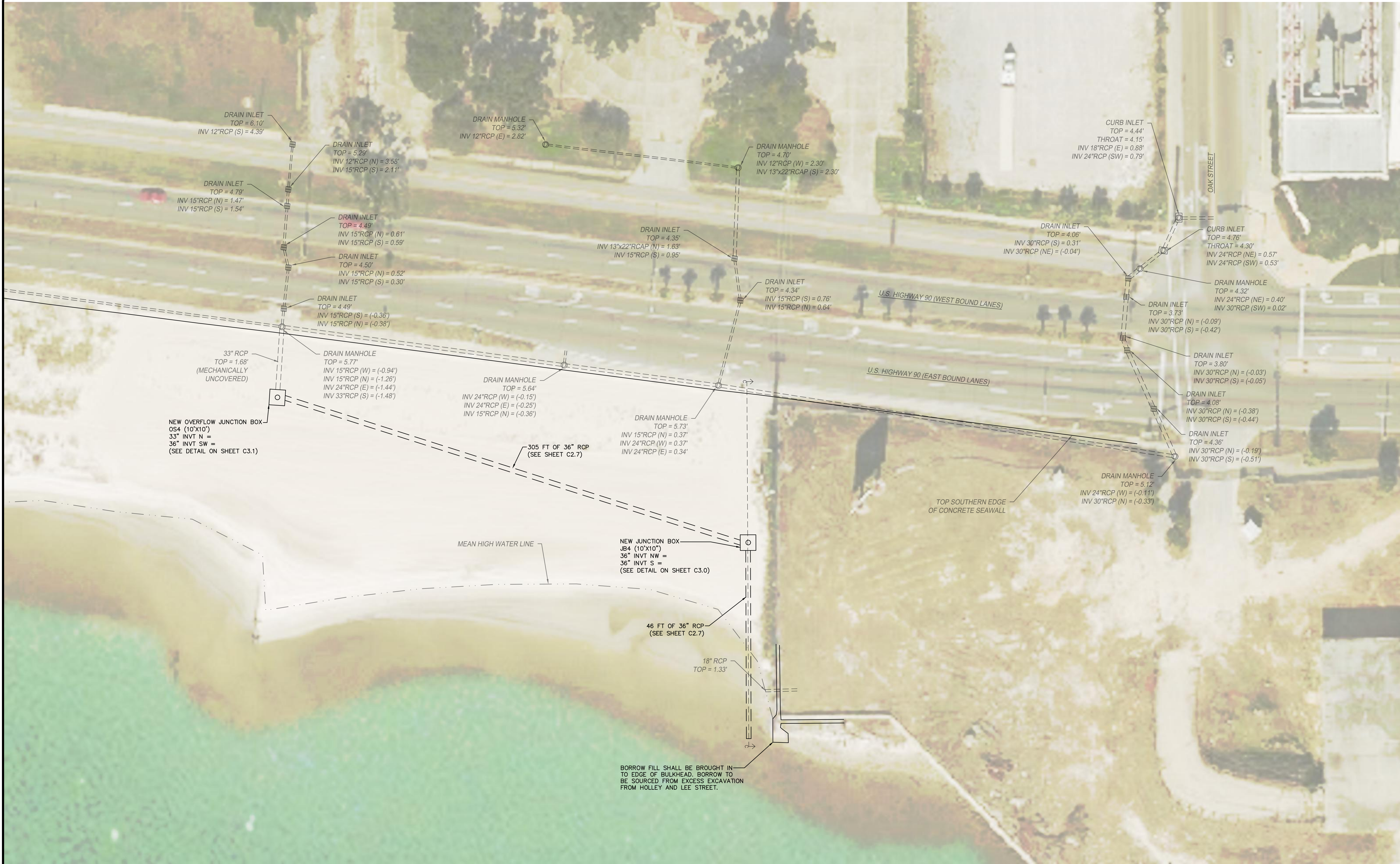


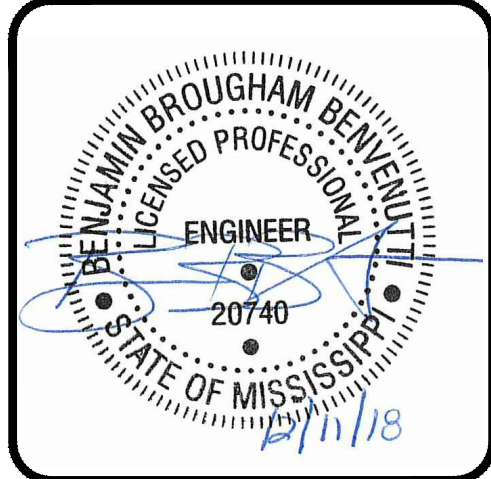
NO.	REVISION / ISSUE			
	DATE			

STORMWATER OUTFALLS -
PHASE I

SITE PLAN -
OAK ST

DATE 12-11-18	SHEET NUMBER
SCALE 1"=30'	C2.6
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO.	

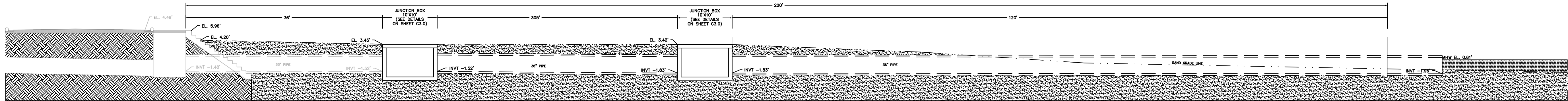




NO.	DATE	REVISION / ISSUE

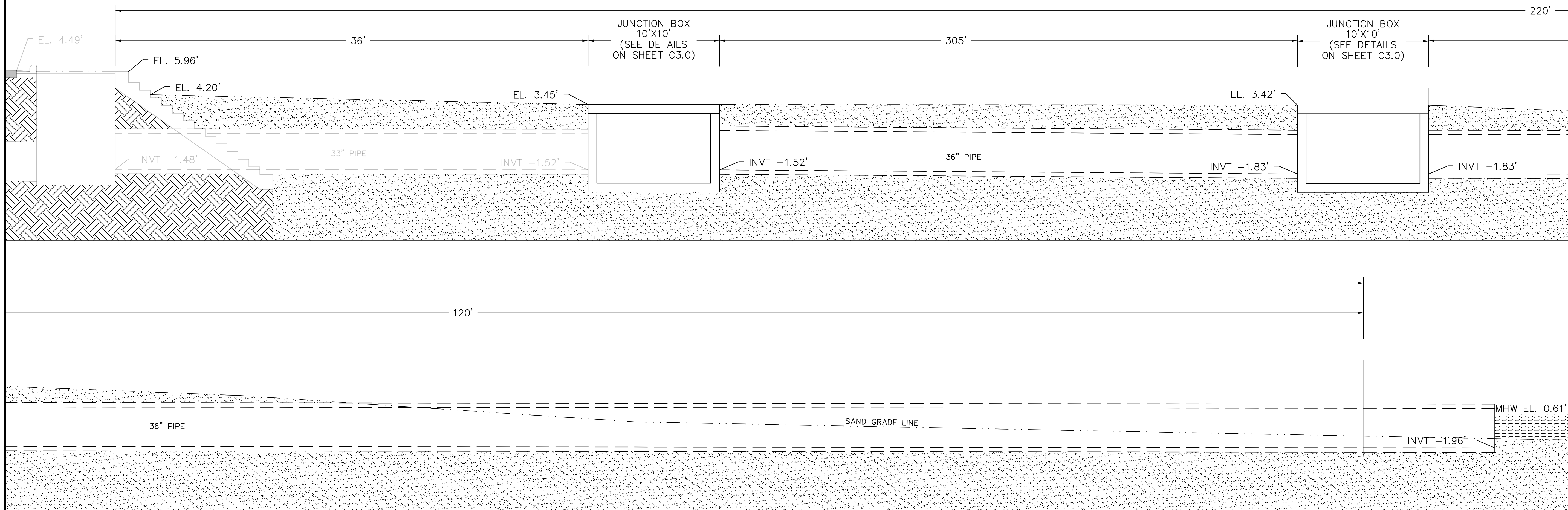
STORMWATER OUTFALLS -
PHASE I

DATE 12-11-18	SHEET NUMBER C2.7
SCALE N.T.S.	
DRAWN BY TMK	CHECKED BY BBB
PROJECT NO. -	



C PROFILE VIEW
N.T.S.

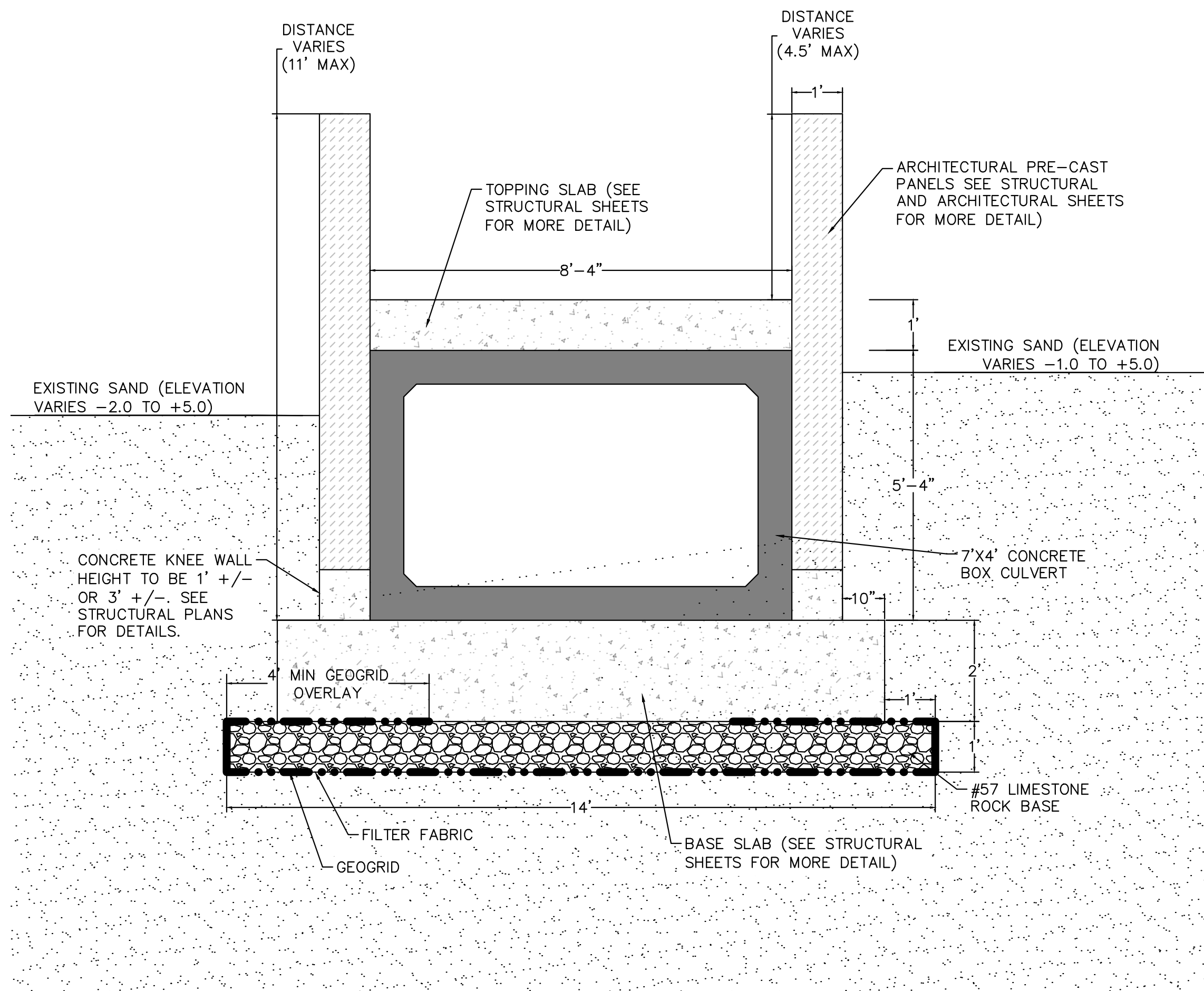
- NOTES:
- SAND ELEVATIONS MAY VARY. CONTRACTOR SHALL GRADE SAND AT A 1:50 SLOPE AWAY FROM JUNCTION BOX UNTIL NATURAL GRADE IS REACHED OR AS DIRECTED BY ENGINEER



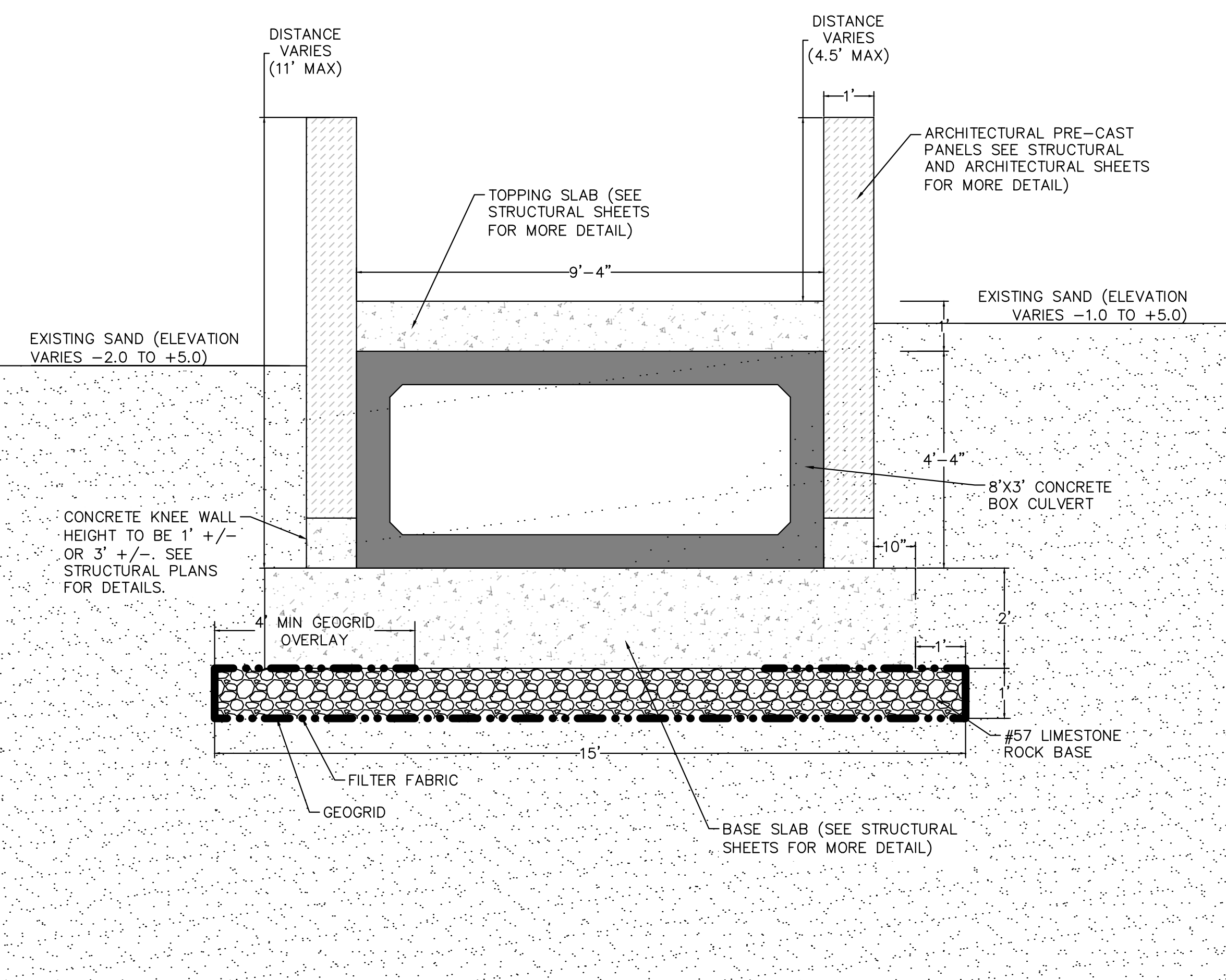
C PROFILE VIEW ENLARGED
N.T.S.

NO.	DATE	REVISION / ISSUE

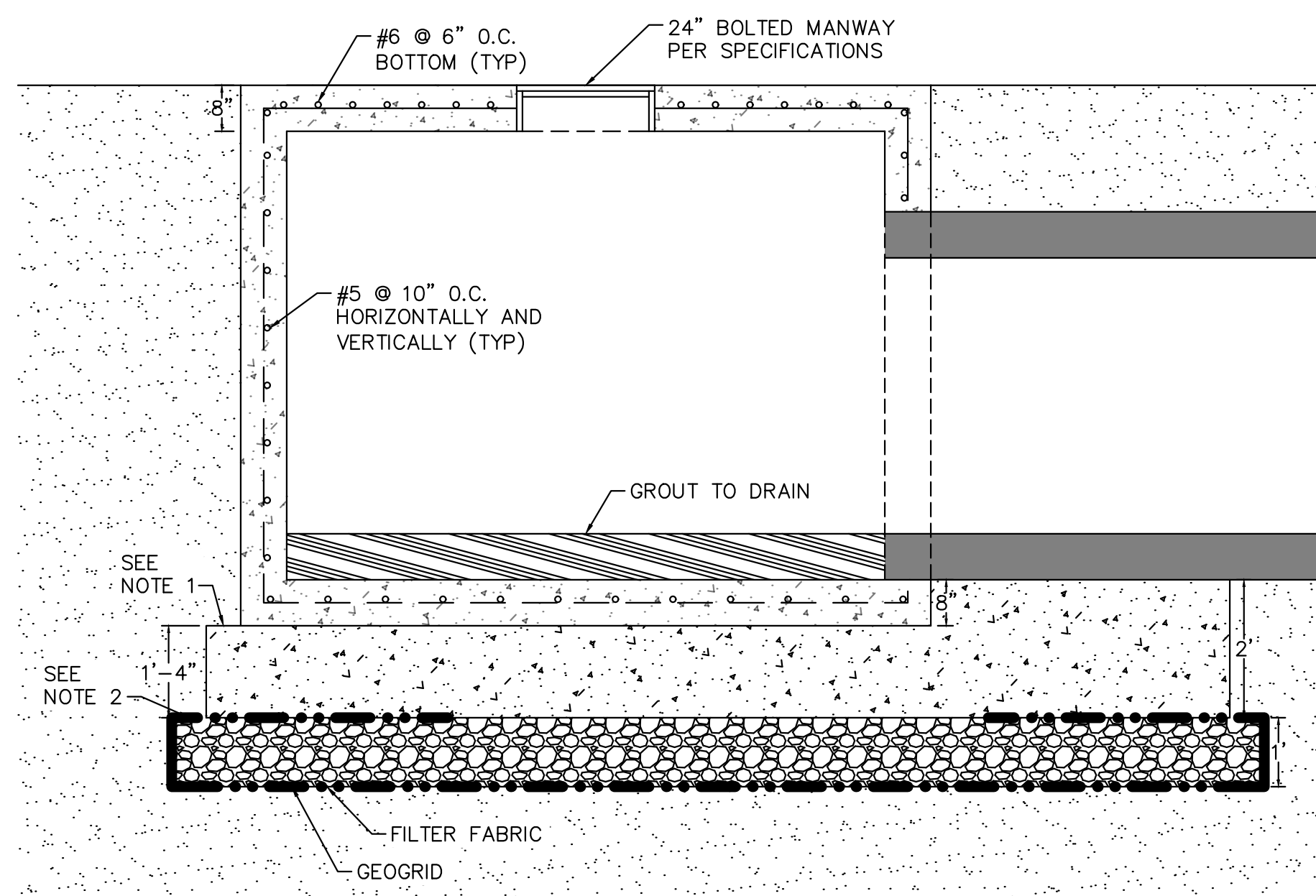
STORMWATER OUTFALLS -
PHASE I



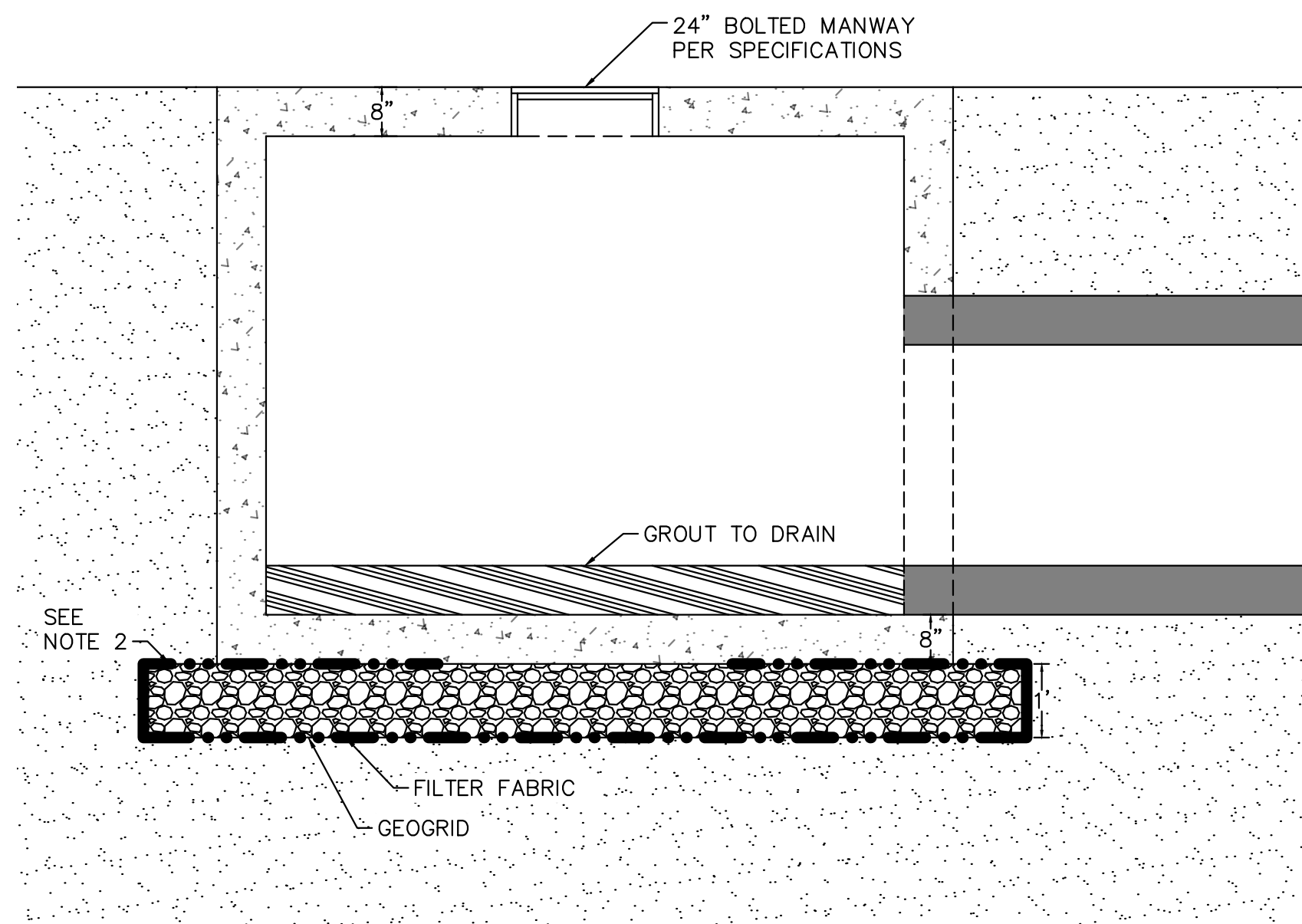
Ⓐ I-110 BOX CULVERT WITH BASE SLAB
SECTION VIEW / 1"=2'



Ⓑ HOLLEY AND LEE ST BOX CULVERT WITH BASE SLAB
SECTION VIEW / 1"=2'

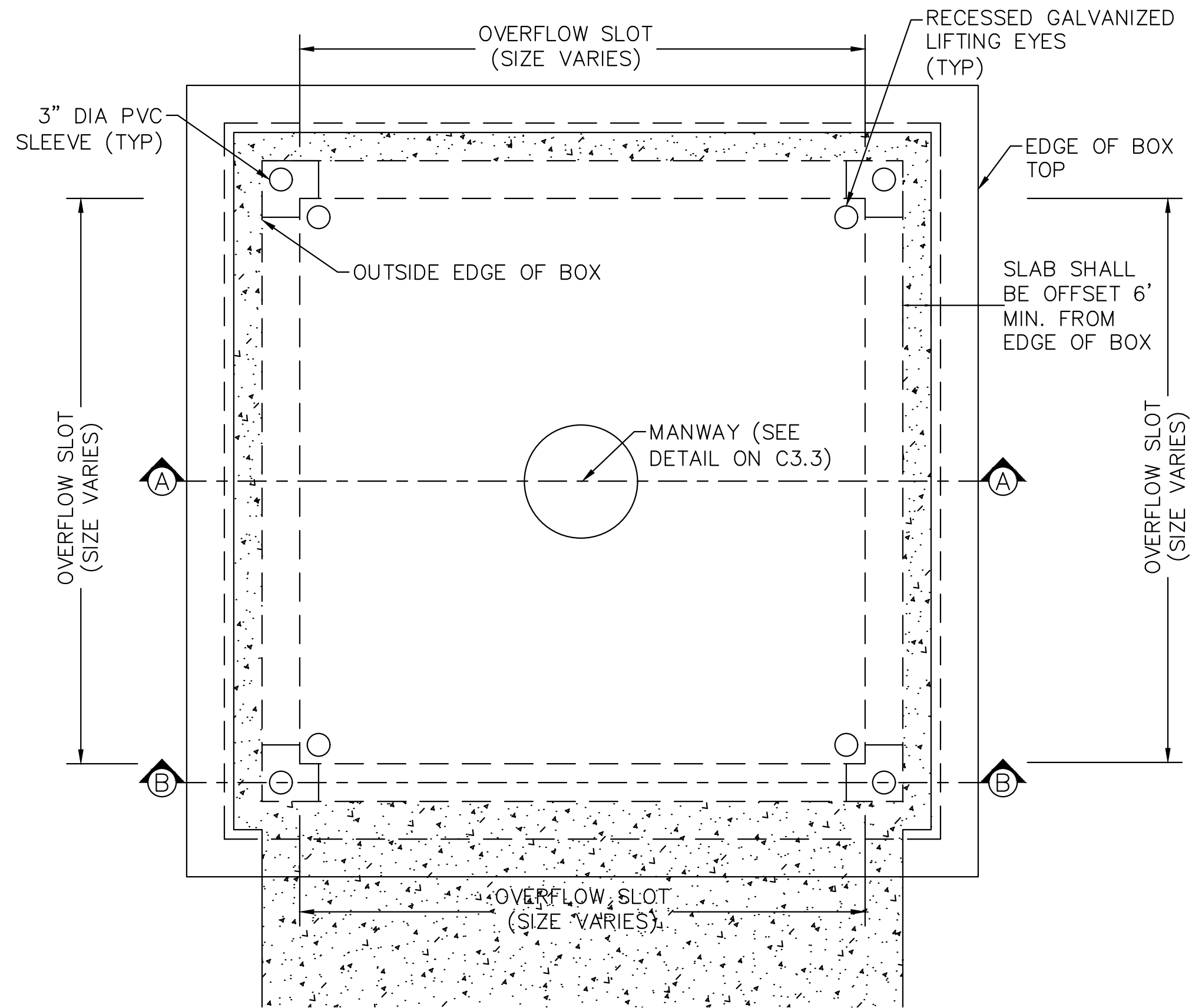


JUNCTION BOX WITH BASE SLAB
SECTION VIEW / 1"=2'



JUNCTION BOX WITH ROCK BASE
SECTION VIEW / 1"=2'

- NOTES:
1. BASE SLAB TO EXTEND A MINIMUM OF 6" OUTSIDE OF JUNCTION BOX.
 2. BASE SLAB TO EXTEND A MINIMUM OF 12" OUTSIDE OF JUNCTION BOX.
 3. CONCRETE SHALL BE 4,000 PSI.
 4. REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60.
 5. JOINT SEALANT SHALL BE RAM-NEK OR APPROVED EQUAL.
 6. BEDDING SHALL BE 57 STONE COMPACTED PER SPECS.

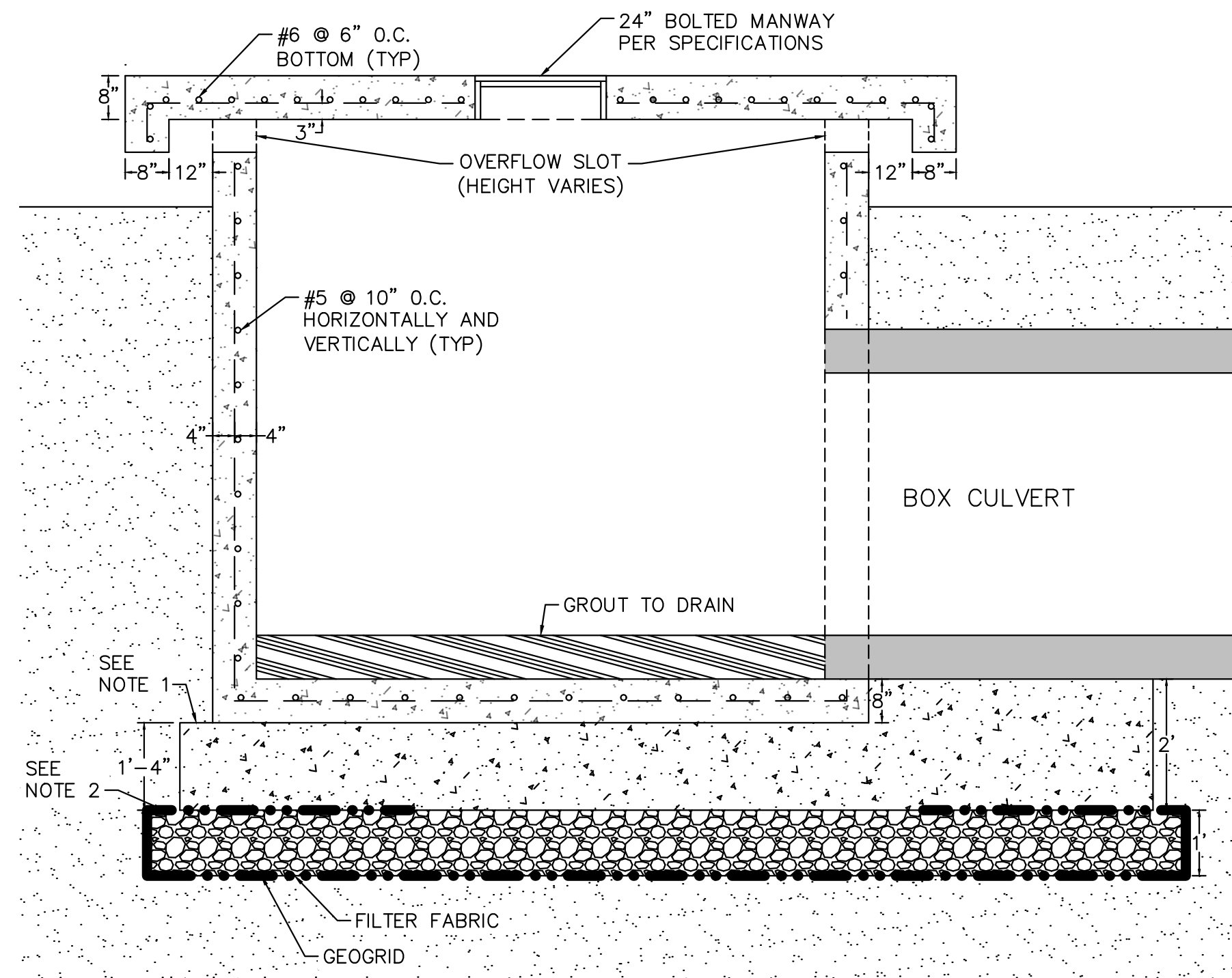


OVERFLOW BOX DETAIL
TOP VIEW / 1"=2FT

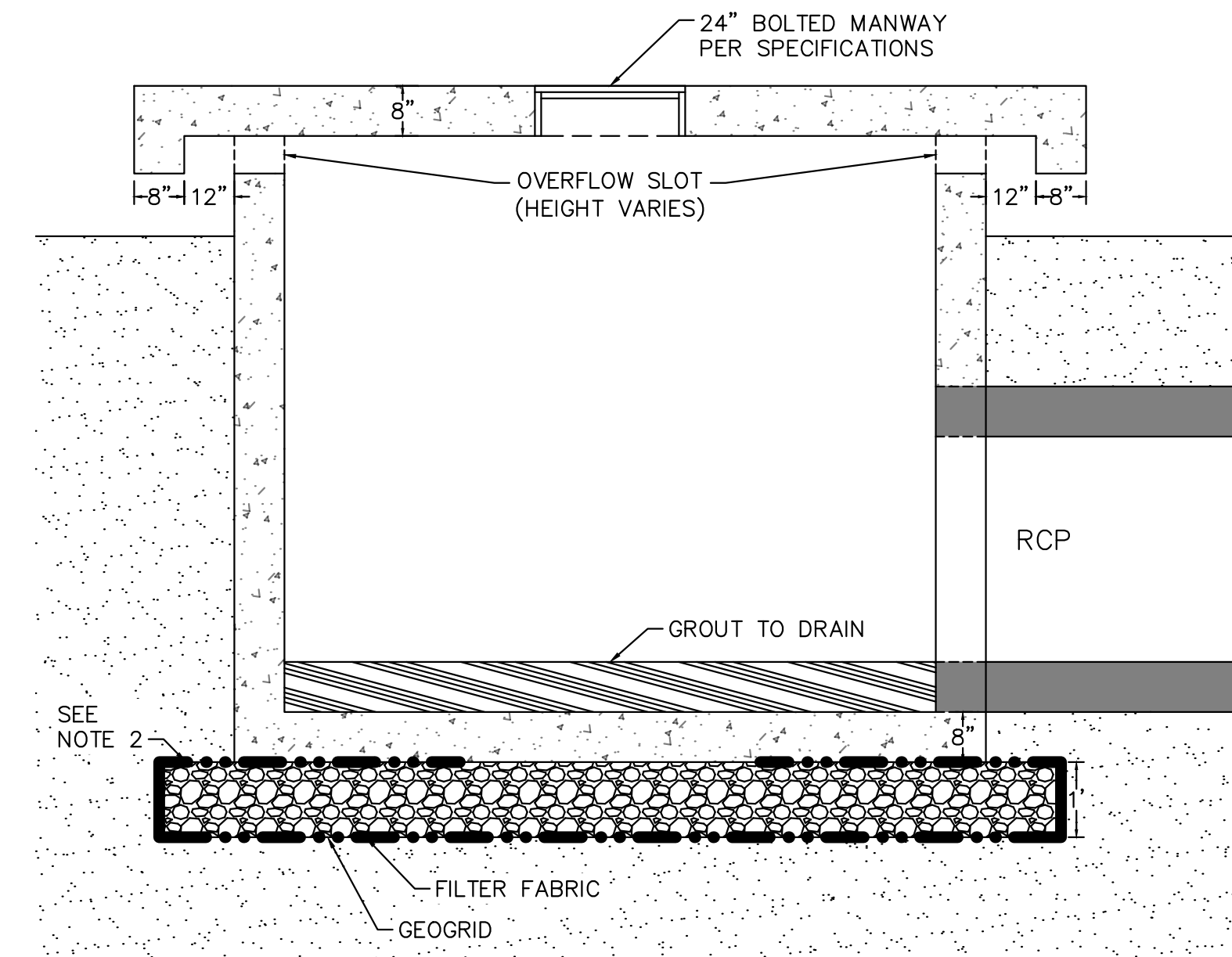
OVERFLOW ORIFICE SIZE					
LOCATION	HEIGHT (FT)	LENGTH (FT)			
	ALL SIDES	NORTH	SOUTH	EAST	WEST
I-110	0.750	16	16	12	12
LEE ST.	0.667	16	16	10	10
HOLLEY ST.	0.667	23	23	10	10

NOTES:

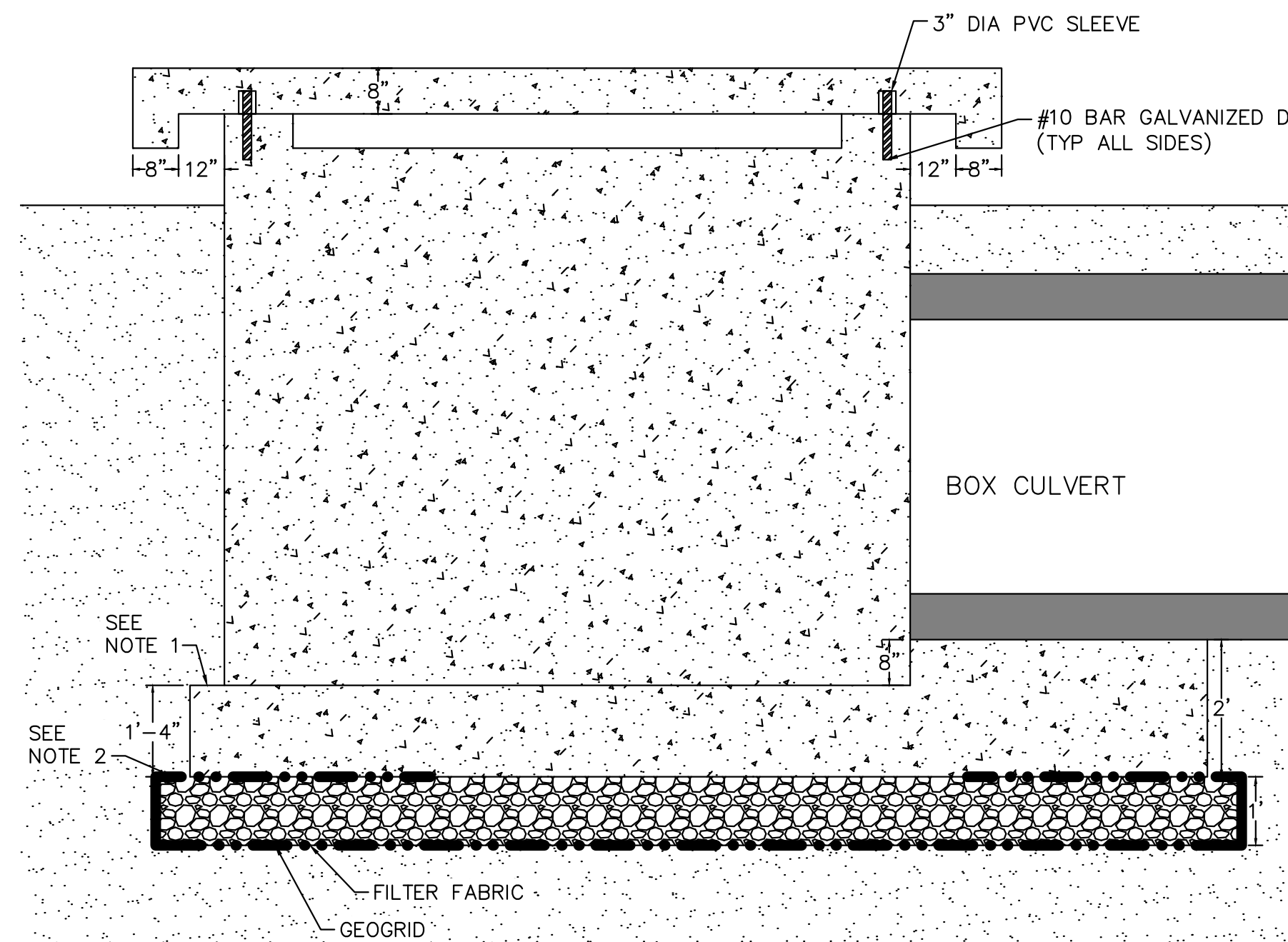
1. BASE SLAB TO EXTEND A MINIMUM OF 6" OUTSIDE OF OVERFLOW STRUCTURE.
2. BASE SLAB TO EXTEND A MINIMUM OF 12" OUTSIDE OF OVERFLOW STRUCTURE.
3. CONCRETE SHALL BE 4,000 PSI.
4. REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60.
5. JOINT SEALANT SHALL BE RAM-NEK OR APPROVED EQUAL.
6. BEDDING SHALL BE 57 STONE COMPACTED PER SPECS.



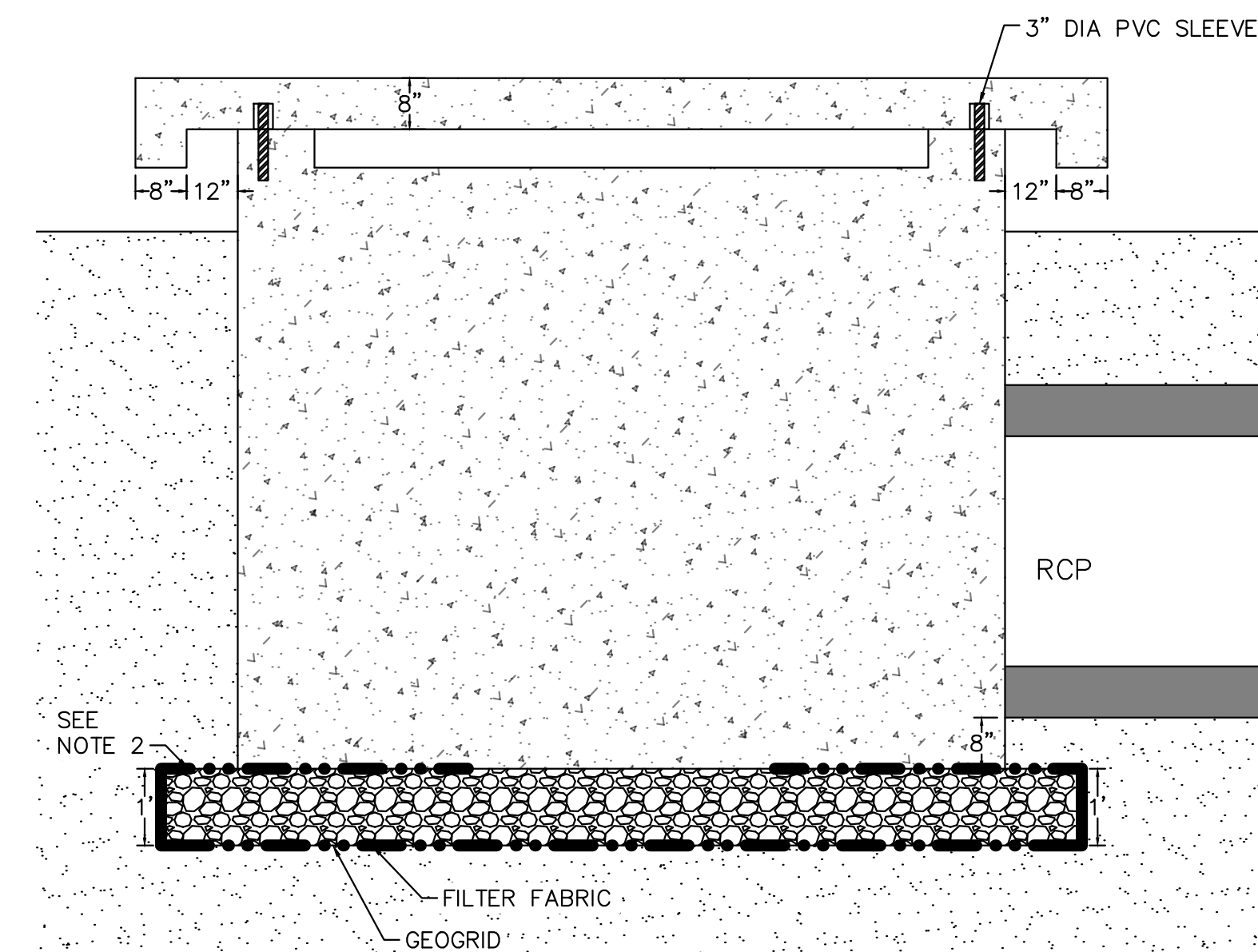
Ⓐ OVERFLOW BOX DETAIL WITH BASE SLAB
SIDE VIEW / 1"=2'



Ⓐ OVERFLOW BOX DETAIL WITH ROCK BASE
SIDE VIEW / 1"=2'



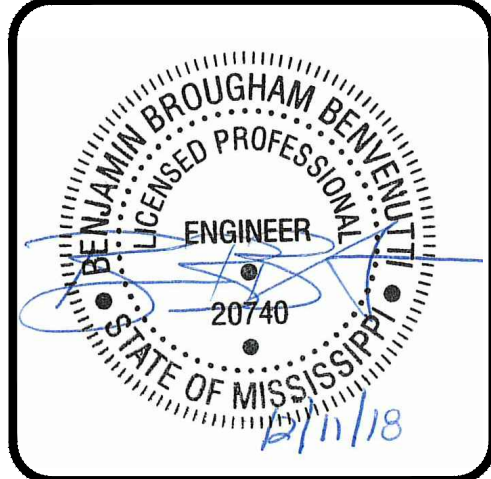
Ⓑ OVERFLOW BOX DETAIL WITH BASE SLAB
SIDE VIEW / 1"=2'



Ⓑ OVERFLOW BOX DETAIL WITH BASE SLAB
SIDE VIEW / 1"=2'

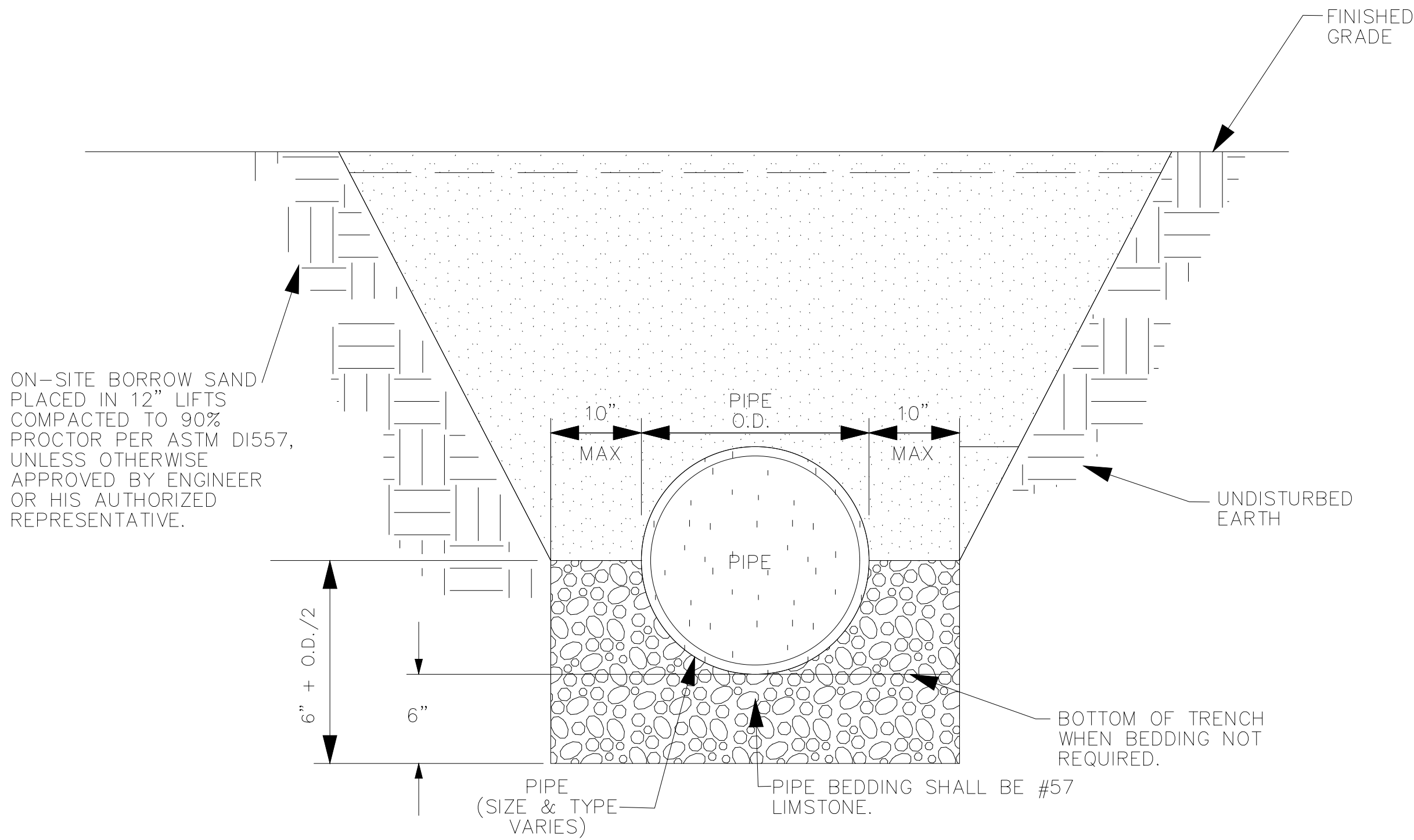
NO.	DATE	REVISION / ISSUE

STORMWATER OUTFALLS -
PHASE I



NO.	DATE	REVISION / ISSUE			

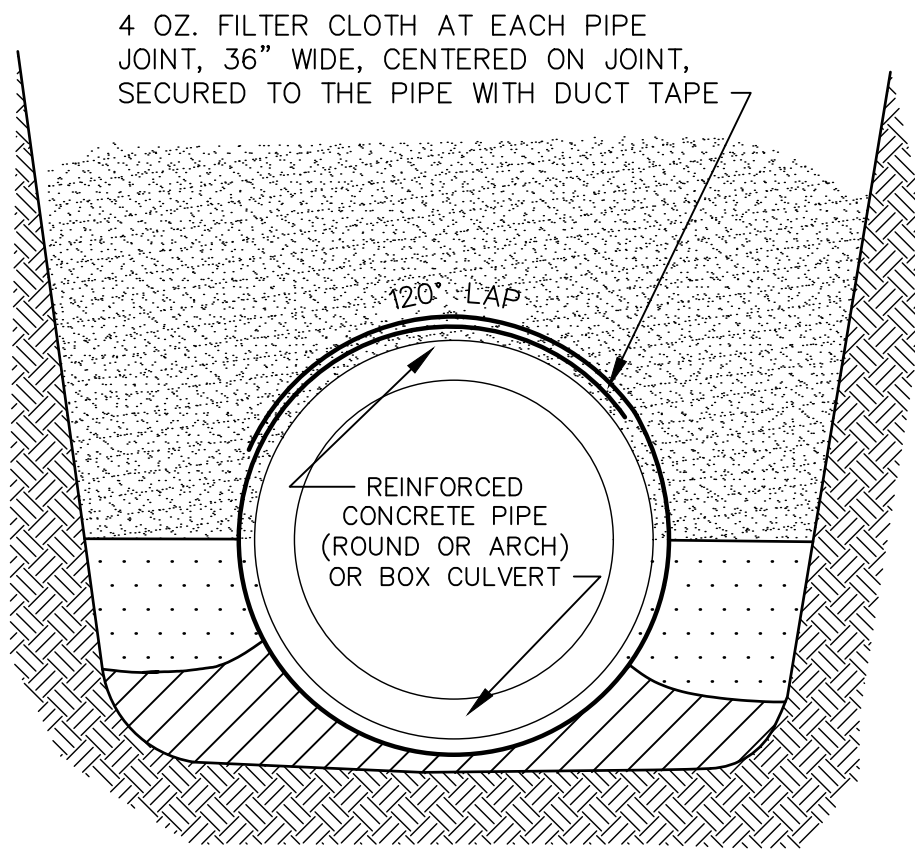
STORMWATER OUTFALLS -
PHASE I



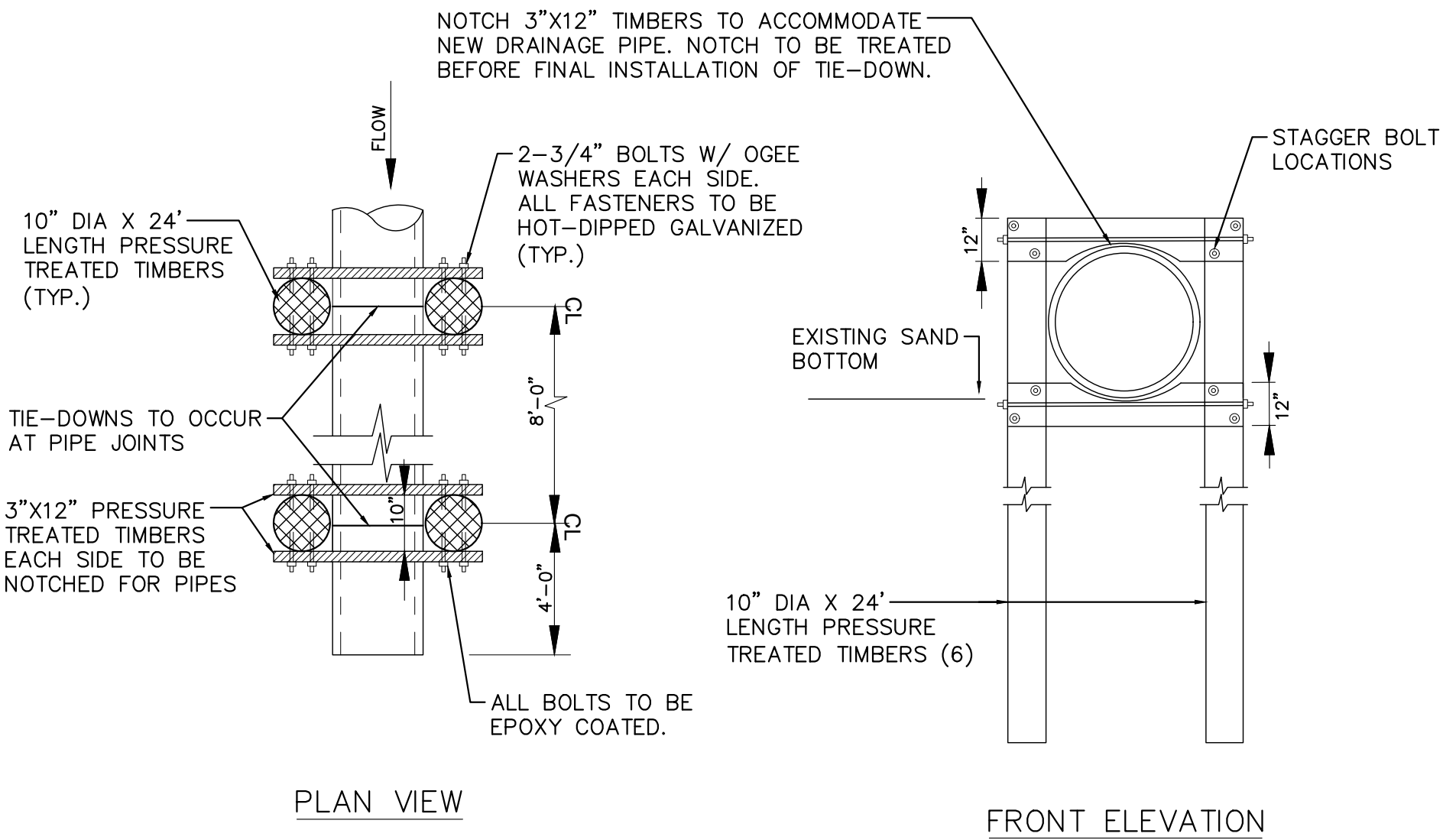
TRENCH DETAIL FOR STORM DRAIN PIPE
N.T.S.

GENERAL NOTES:

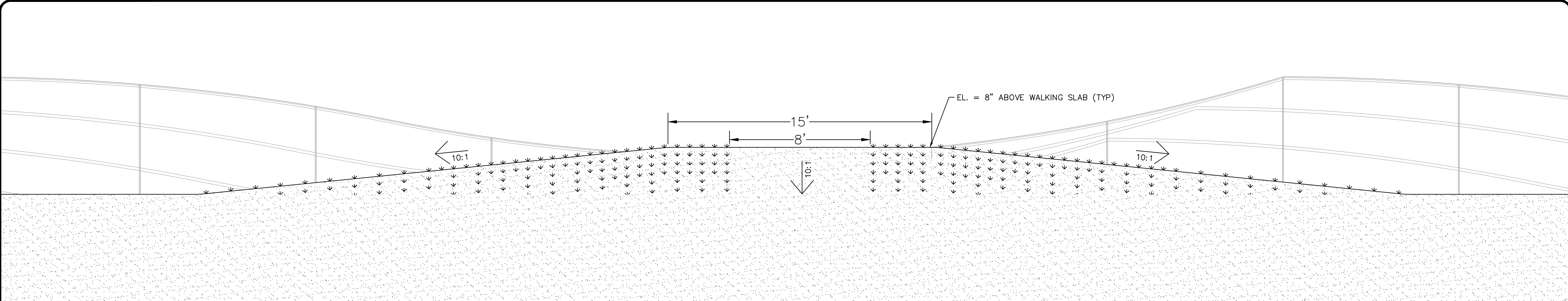
- PIPE BEDDING SHALL BE #57 LIMSTONE IN ACCORDANCE WITH THE SPECIFICATIONS. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
 - BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
- STORM DRAIN PIPE PLACEMENT NOTES:
- STORM DRAIN PIPE SHALL BE CLASS III RCP IN ACCORDANCE WITH THE SPECIFICATIONS. LOCATION FOR INSTALLATION OF TYPE OF PIPE SHALL BE AS SHOWN ON THE DRAWINGS.
 - ALL STORM DRAIN JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. FABRIC SHALL BE THREE (3') FEET WIDE (CENTERED OVER JOINT) AND LONG ENOUGH TO WRAP AROUND THE PIPE JOINT AND OVERLAP 1/3 THE CIRCUMFERENCE. THE COST OF FABRIC SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
 - REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.



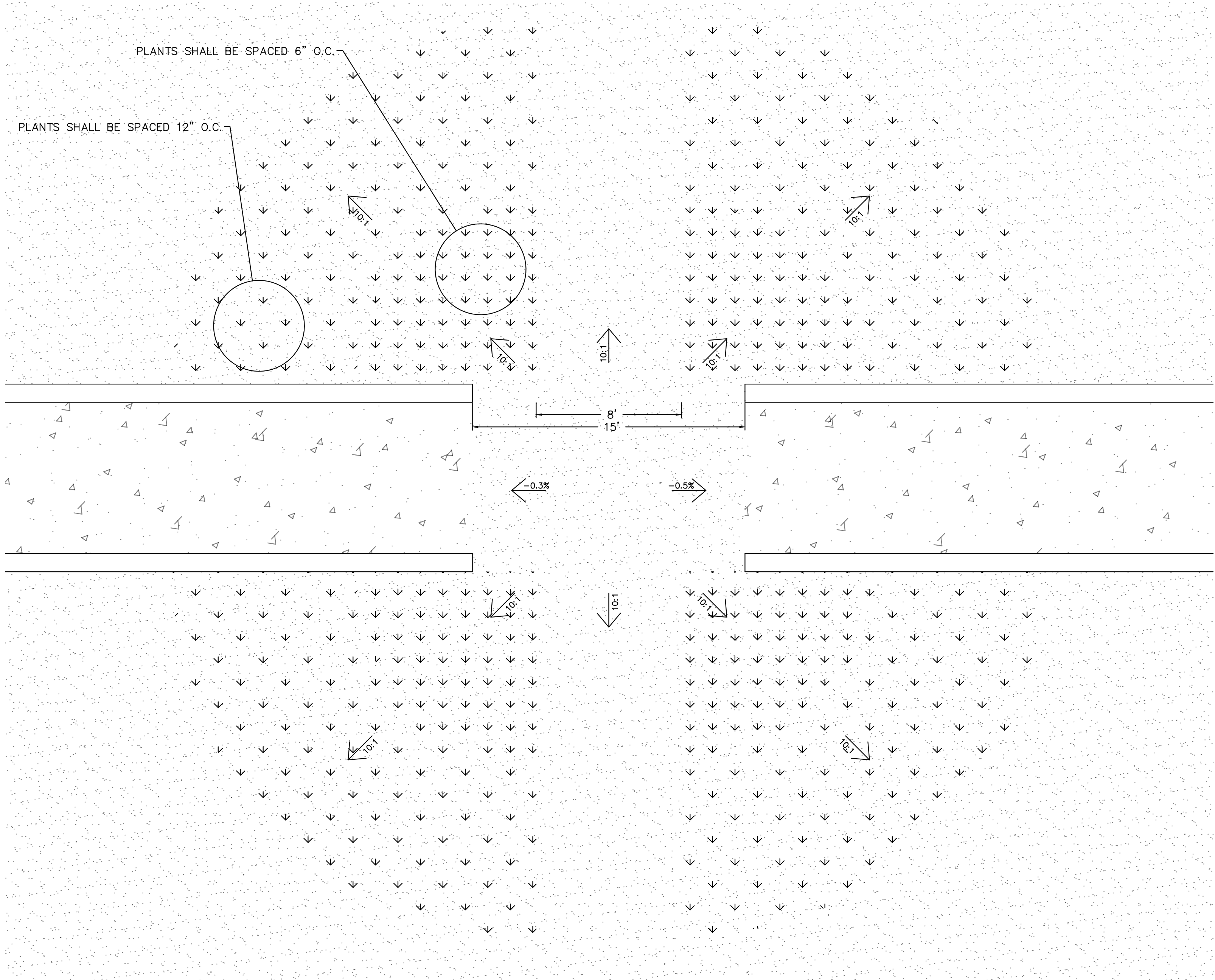
PIPE WRAP DETAIL
N.T.S.



TIE-DOWN DETAIL
N.T.S.



DUNE PLANTING DETAIL – PROFILE VIEW
N.T.S.

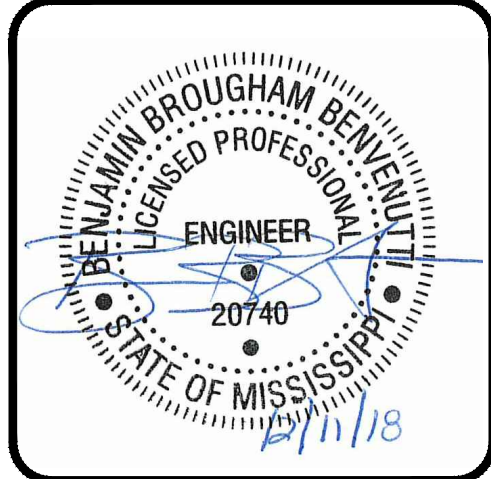


NOTES:
CONTRACTOR SHALL PLAN FOR A MINIMUM OF
1,000 PLANTS PER OUTFALL.

DUNE PLANTING DETAIL – PLAN VIEW
N.T.S.

NO.	DATE	REVISION / ISSUE

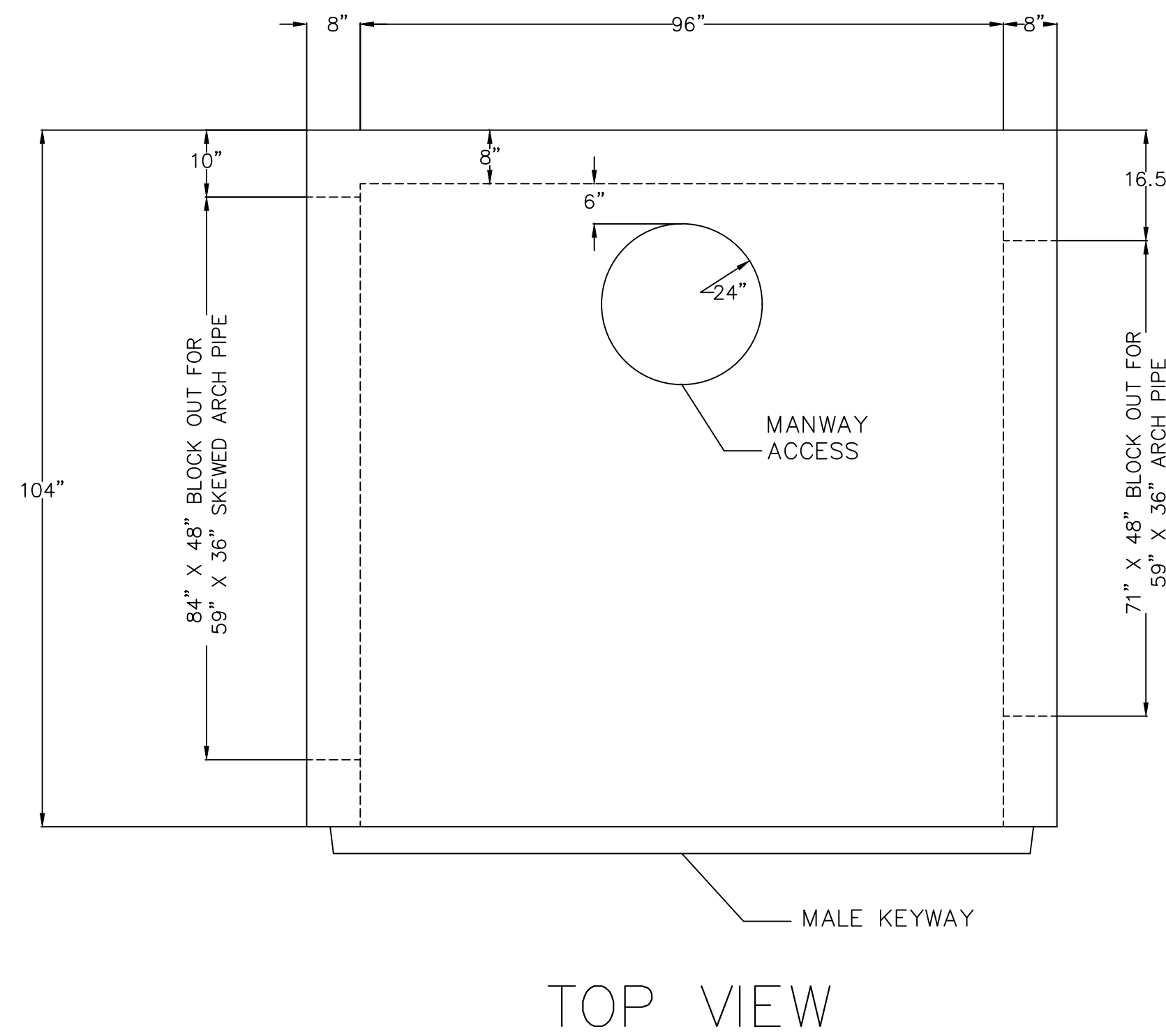
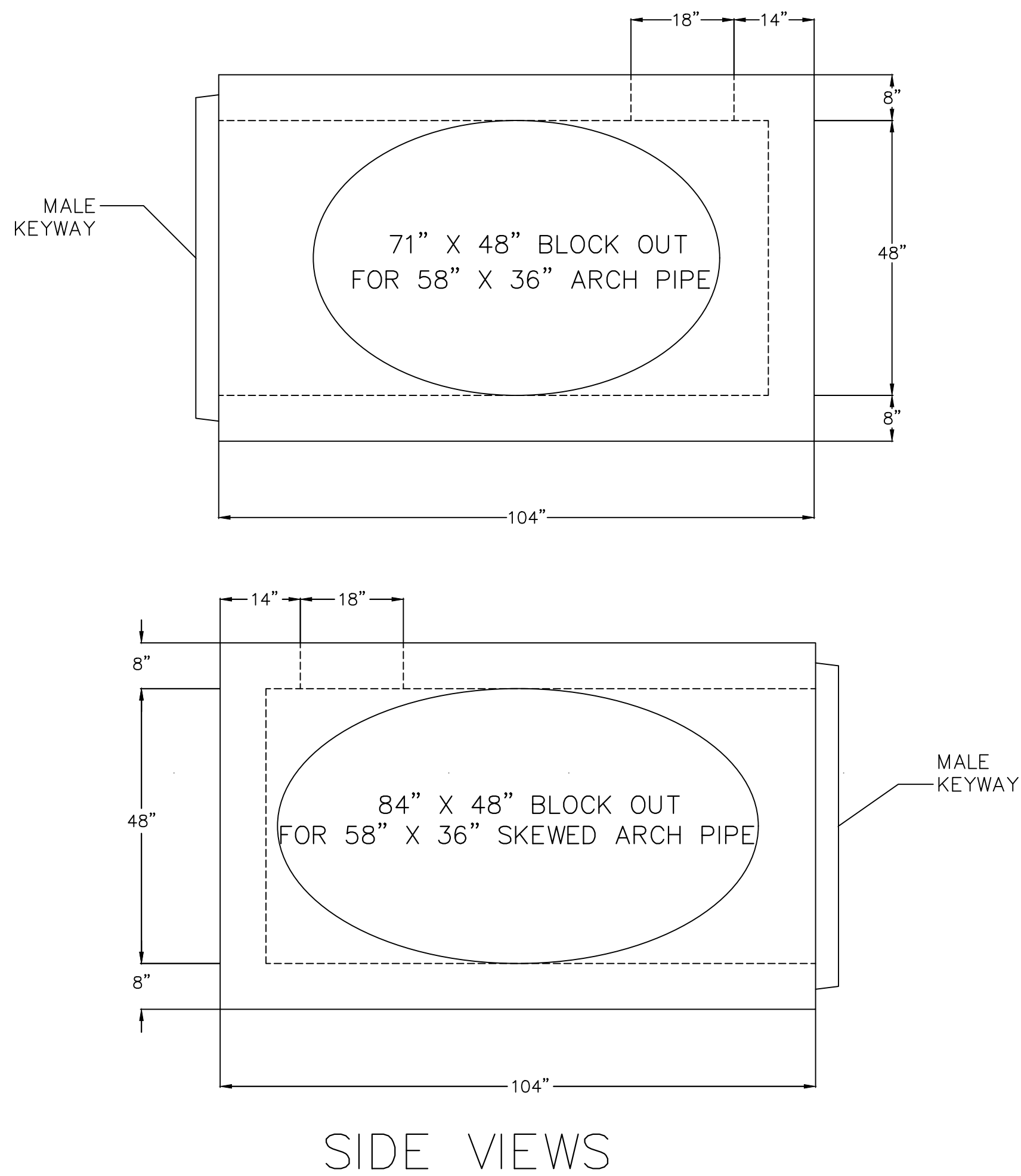
STORMWATER OUTFALLS -
PHASE I



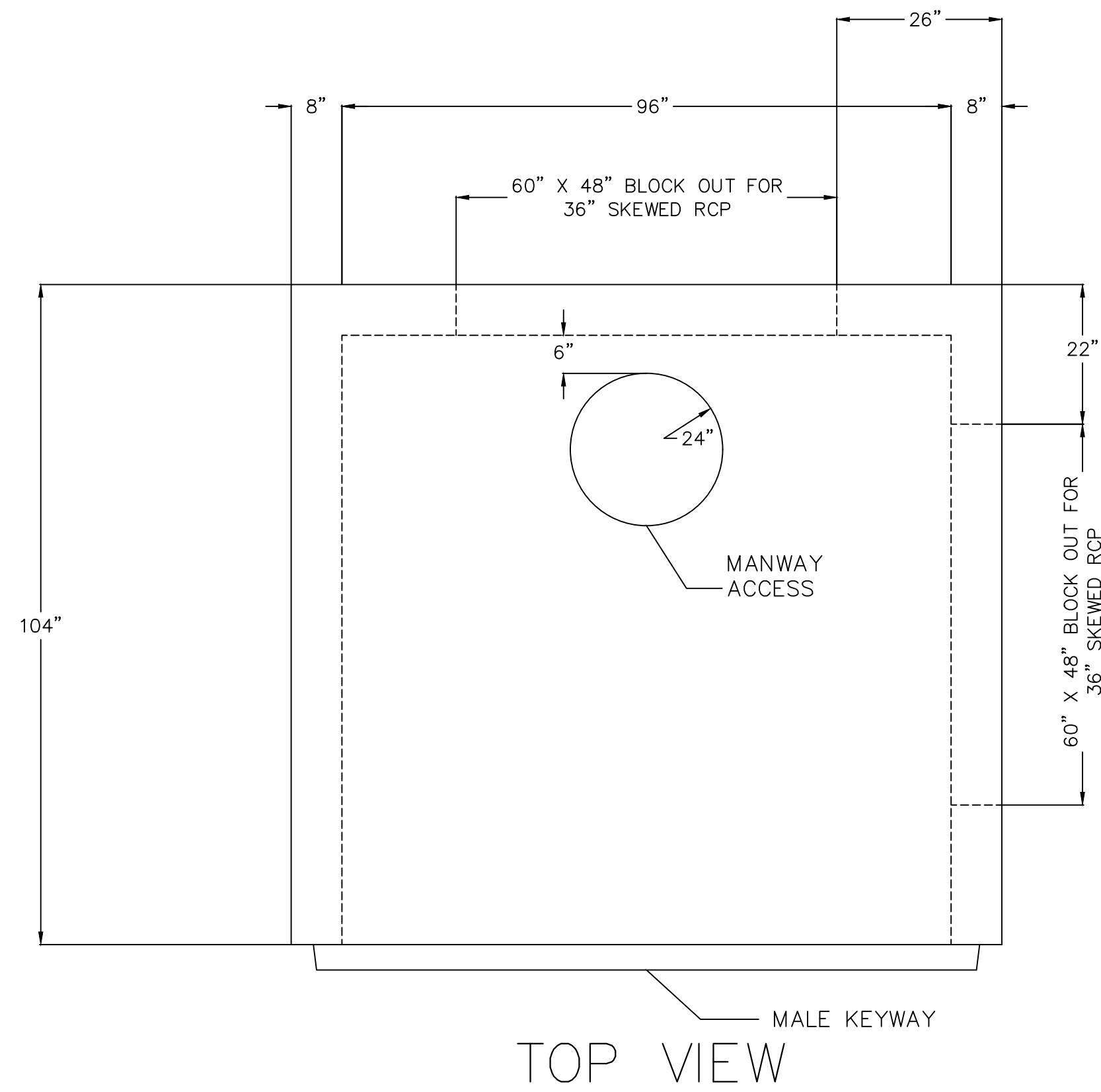
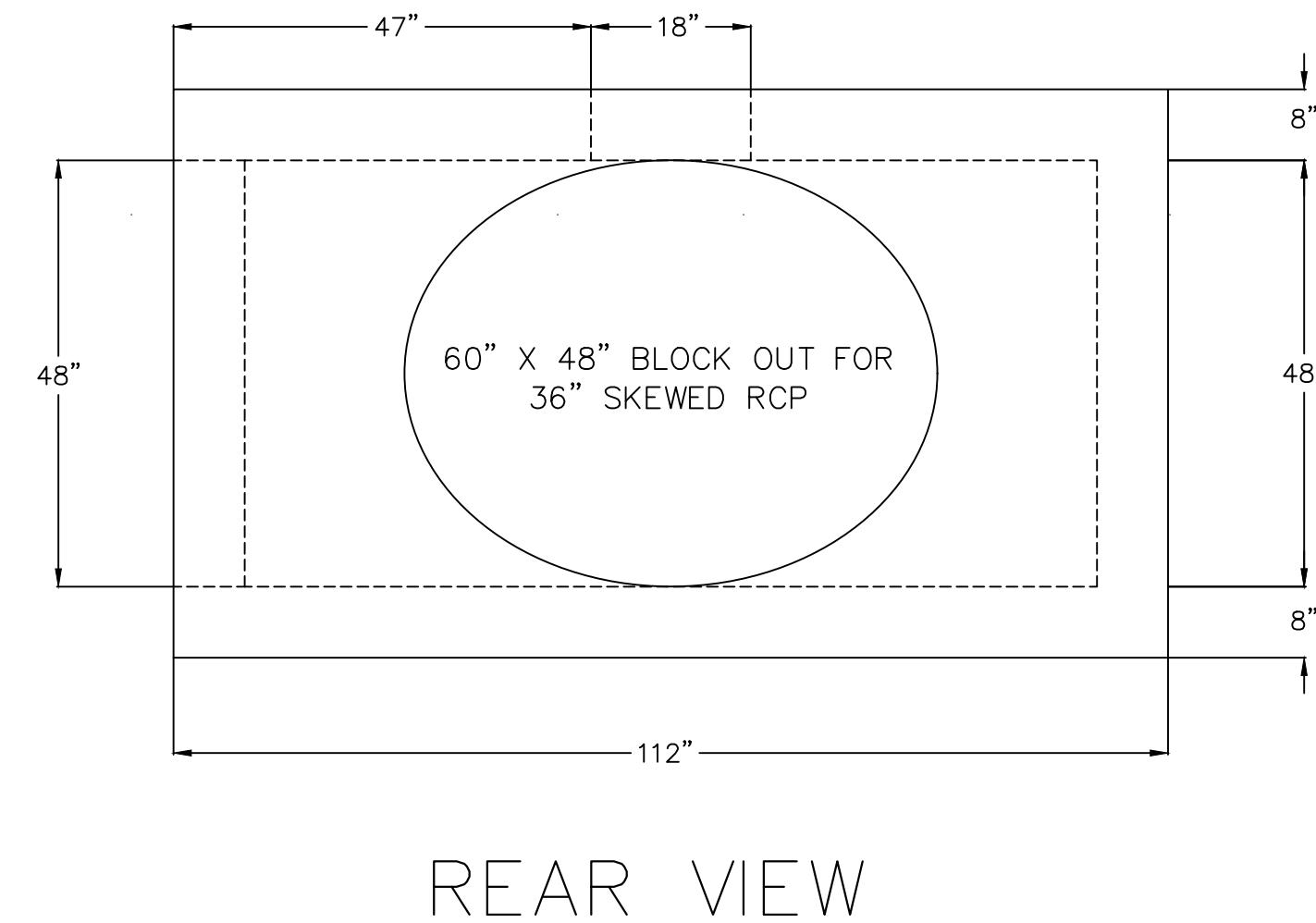
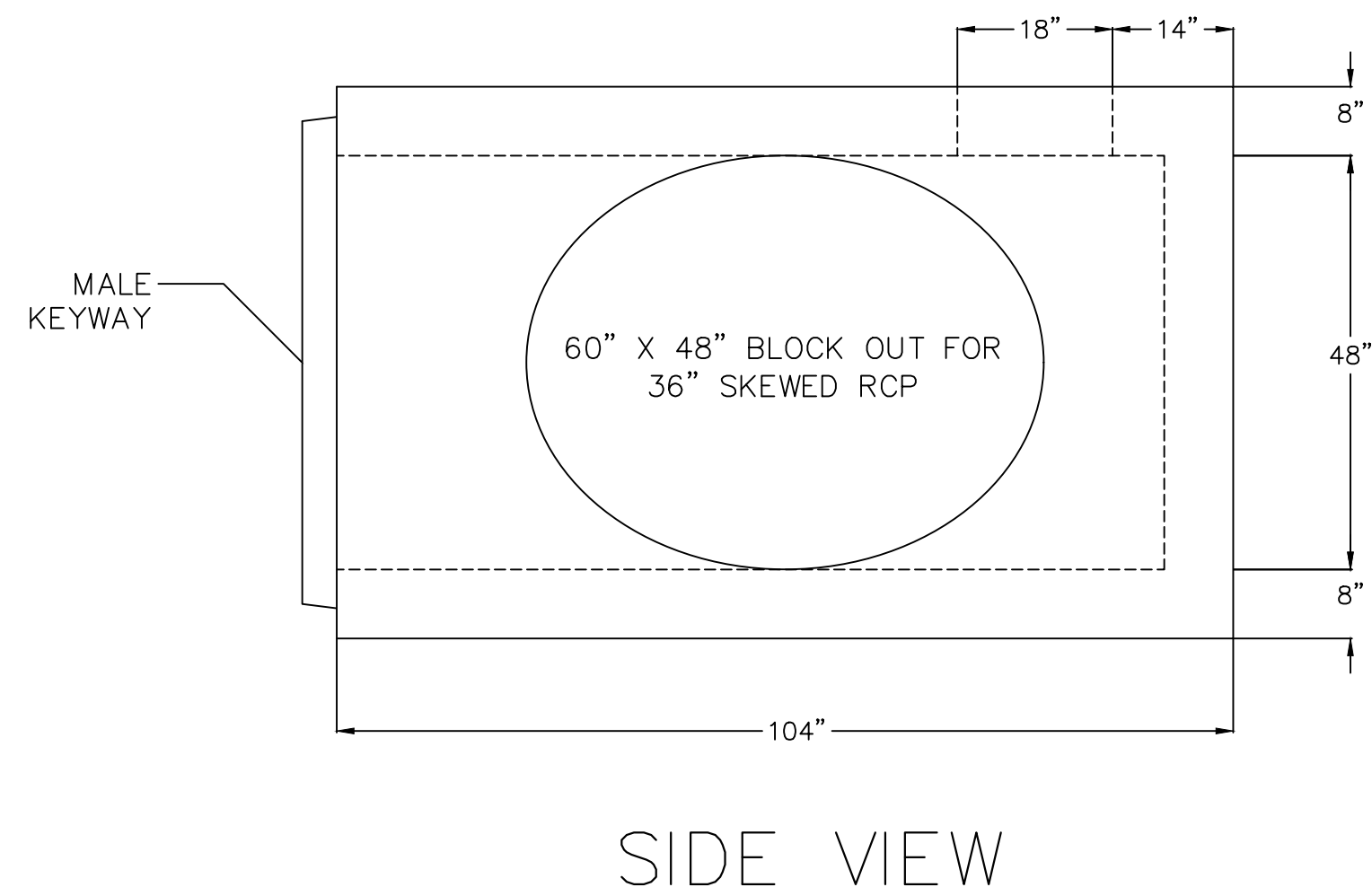
NO.	DATE	REVISION / ISSUE				

STORMWATER OUTFALLS -
PHASE I

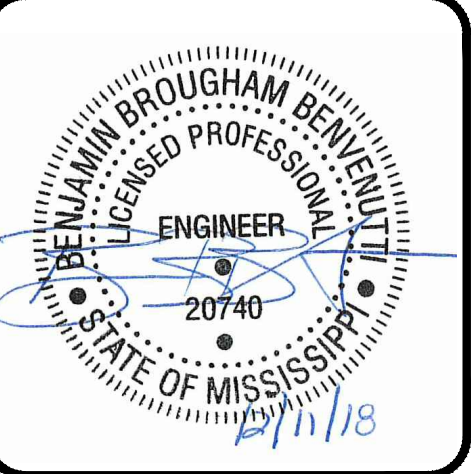
CIVIL DETAILS			
DATE 12-11-18		SHEET NUMBER	
SCALE N.T.S.		C3.3	
DRAWN BY TMK	CHECKED BY BBB		
PROJECT NO. —			



Ⓐ END CAP – HOLLEY ST
N.T.S.



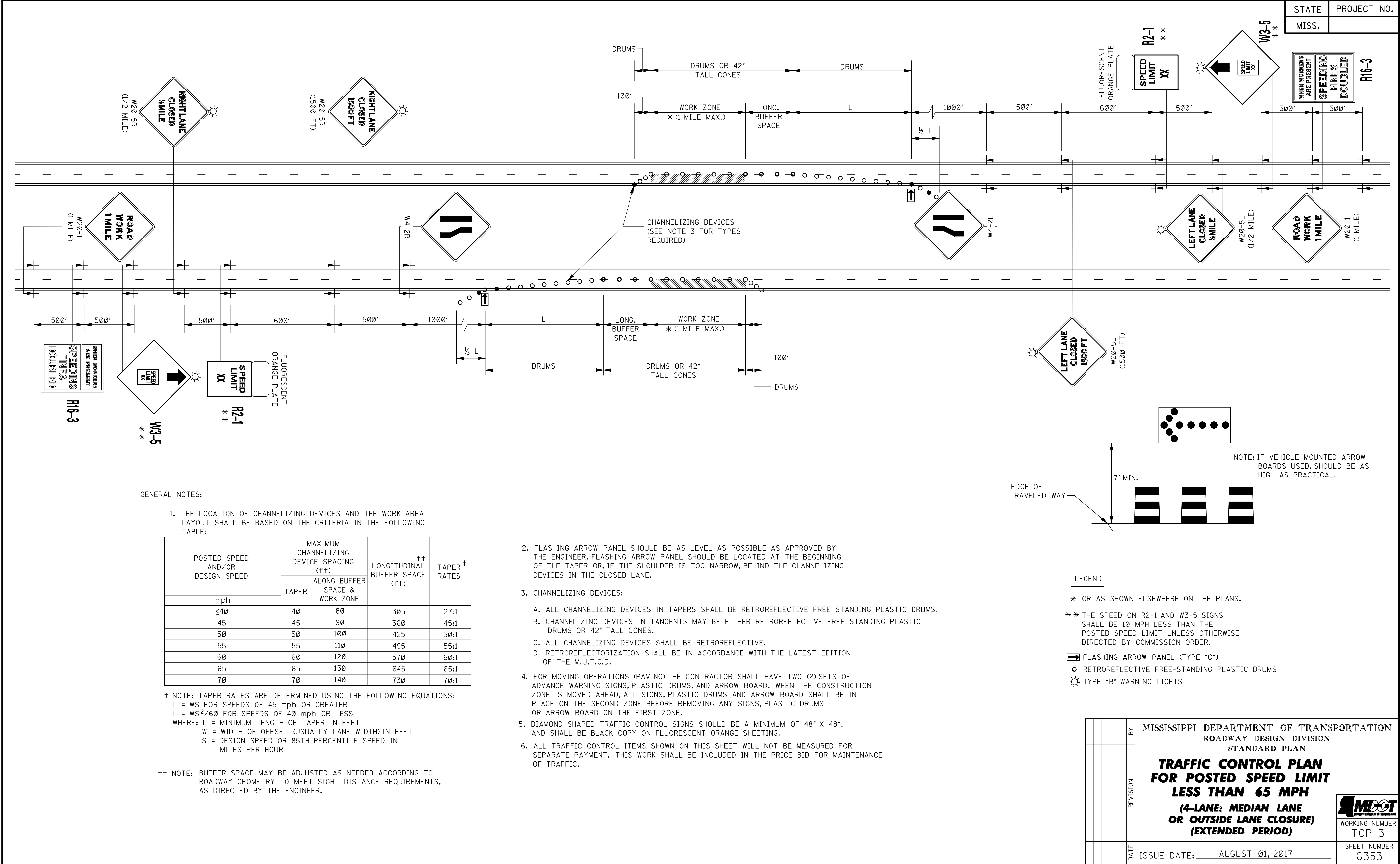
Ⓑ END CAP – LEE ST
N.T.S.



NO.	DATE	REVISION / ISSUE			

STORMWATER OUTFALLS -
PHASE I

DATE 12-11-18	SHEET NUMBER
SCALE N.T.S.	C4.1
DRAWN BY TMK	
CHECKED BY BBB	
PROJECT NO. -	



1. ALL DRAWINGS (ARCHITECTURAL, STRUCTURAL, CIVIL, PLUMBING, MECHANICAL, ELECTRICAL, ETC.) AND THE SPECIFICATIONS ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION WITH EACH OTHER TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
2. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED OR BURNED UNLESS PREVIOUSLY APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL NOT CUT OR PATCH STRUCTURAL WORK IN A MANNER THAT WOULD RESULT IN A REDUCTION OF THE LOAD CARRYING CAPACITY OR THE LOAD/DEFLECTION RATIO.
3. STRUCTURAL DESIGN IS BASED ON DIMENSIONS SHOWN ON STRUCTURAL PLANS. IF ANY DIMENSIONAL DISCREPANCIES ARE FOUND BETWEEN STRUCTURAL PLANS AND PLANS OF OTHER DISCIPLINES, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD FOR RESOLUTION.
4. THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE THE PROJECT SPECIFICATIONS.

1. CODES AND STANDARDS:

- A. INTERNATIONAL BUILDING CODE 2012 EDITION.
- B. AISC MANUAL OF STEEL CONSTRUCTION THIRTEENTH EDITION.
- C. AWS LATEST EDITION.
- D. ACI 318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

2. LOADING (LOAD FACTORS NOT INCLUDED):

- A. GRAVITY LOADS
 - 1. WALKWAY LOADS
 - A. DEAD LOAD = SELFWEIGHT
 - B. LIVE LOAD = 100 PSF
- B. LATERAL LOADS
 - 1. WIND PER IBC
 - A. BASIC WIND SPEED ----- = 148 MPH
 - B. RISK CATEGORY ----- = I
 - C. IMPORTANCE FACTOR ----- = 1.0
 - D. WIND EXPOSURE ----- = D
 - E. INTERNAL PRESSURE COEFFICIENTS---- = 0 (OPEN)
- 2. SEISMIC PER IBC
 - Ss = 0.102
 - S1 = 0.056
 - SITE CLASS = D
 - Sps = 0.109
 - Sol = 0.090
 - IMPORTANCE FACTOR = 1.0
 - SEISMIC USE GROUP = B
 - SEISMIC DESIGN CATEGORY = B
 - BASIC SEISMIC FORCE RESISTING SYSTEM = ORDINARY REINFORCED CONCRETE SHEAR WALLS
 - DESIGN BASE SHEAR V = 300 PLF
 - SEISMIC RESPONSE COEFFICIENT Cs = 0.027
 - RESPONSE MODIFICATION FACTOR R = 4
 - ANALYSIS PROCEDURE = SIMPLIFIED

3. WAVE FORCES:

- A. CALCULATIONS PERFORMED BY APPLIED TECHNOLOGY AND MANAGEMENT, INC. AND REPORT DATED SEPTEMBER 25, 2018.
- B. MAXIMUM WAVE PRESSURE = 597 PSF

4. DESIGN CONCEPT:

CAST-IN-PLACE CONCRETE MAT FOUNDATION SUPPORTING PRE-CAST PRECAST CONCRETE WALL PANELS PANELS AND PRE-CAST CONCRETE DRAINAGE BOX CULVERT. CONCRETE TOPPING SLAB AND CAST-IN-PLACE DOWELS PROVIDE RIGIDITY.

1. SEE ALSO DIVISION 2 OF SPECIFICATIONS.
2. THE FOUNDATION DESIGN IS BASED ON SUBSURFACE EXPLORATION BY QUALITY ENGINEERING SERVICES, INC. AND REPORT NO. 2018-0799 DATED OCTOBER 11, 2018.
3. THE ALLOWABLE SOIL BEARING PRESSURE IS 1,000 PSF.
4. EXCAVATE FOR FOOTINGS AND DEWATER AS REQUIRED.
5. PLACE FILTER CLOTH AND GEOGRID AS INDICATED.

1. SEE ALSO DIVISION 3 OF SPECIFICATIONS.
2. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF ACI 318, CRSI AND THE INTERNATIONAL BUILDING CODE.
3. ALL CONCRETE SHALL OBTAIN A 28 DAY STRENGTH AS SPECIFIED.
A. ALL WORK = 4,000 PSI (SEE SPECS.)
4. SUBMIT MIX DESIGN TO THE A/E FOR APPROVAL. THIS SUBMITTAL SHALL CONFORM TO SECTION 5.3 OF ACI 318-05 AND SECTION 1905 OF THE INTERNATIONAL BUILDING CODE. MIX DESIGN WILL NOT BE APPROVED WITHOUT BREAK DATA AS REQUIRED BY ACI.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
6. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 45 DEGREE CHAMFER.
7. PROVIDE SLAB JOINTS AS INDICATED.
CORNERS SHALL HAVE A MINIMUM ANGLE OF 90 DEGREES.
8. FINISHES: (SEE SPECS)
MAT SLAB ---- SMOOTH STEEL TROWELED
TOPPING SLAB - STEEL TROWELED FOLLOWED BY A
MEDIUM BROOM FINISH TRANSVERSE TO
THE DIRECTION OF WALKING TRAFFIC.
9. SEE SPECS FOR CORROSION INHIBITOR REQUIREMENTS.

1. SEE ALSO DIVISION 3 OF SPECIFICATIONS.
2. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF ACI 318, CRSI, PCI, AND THE INTERNATIONAL BUILDING CODE.
3. CONCRETE SHALL OBTAIN THE FOLLOWING STRENGTH:
A. PANELS 5000 PSI 28 DAYS (SEE SPECS.)
4. SEE SPECS FOR CORROSION INHIBITOR REQUIREMENTS.
5. DESIGN LOADS SHALL INCLUDE:
A. MAXIMUM WAVE PRESSURE AS INDICATED.
6. IF FABRICATION PRACTICES REQUIRE VARIATION FROM INDICATED DESIGN, SUBMIT DESIGN TO THE ENGINEER FOR APPROVAL. THIS SUBMITTAL SHALL INCLUDE LOADING ANALYSIS, DESIGN CALCULATIONS, AND CONNECTION DETAILS.

1. REINFORCING BARS SHALL CONFORM TO ASTM A 615, MARKED S, AND A616, MARKED R, GRADE 60. BARS REQUIRING A TIGHT BENDING RADIUS (TIES AND STIRRUPS) AND BARS TO BE WELDED SHALL CONFORM TO ASTM A 706, LATEST REVISION.
2. CMU OR CLAY BRICK SHALL NOT BE USED TO SUPPORT SLAB REINFORCEMENT. SUPPORT SLAB REINFORCEMENT ON STEEL CHAIRS WITH SAND PLATES OR APPROVED SUPPORTS.
3. 4000 PSI CONCRETE BLOCKS MAY BE USED TO SUPPORT REINFORCEMENT IN SPREAD FOOTINGS AND STRIP FOOTINGS, CMU OR CLAY BRICKS SHALL NOT BE USED.
4. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 315.
5. CONCRETE PROTECTION FOR REINFORCEMENT: A.C.I. 318 OR AS INDICATED.
6. ALL BAR SPLICES SHALL BE 40d LAP SPLICES, UNLESS OTHERWISE SHOWN.
7. SPLICE TOP BARS AT CENTER OF SPAN AND BOTTOM BARS AT THE SUPPORT.
8. UNLESS OTHERWISE NOTED, ALL REINFORCING SPLICES SHALL BE IN CONFORMANCE WITH A.C.I. 318, LATEST REVISION.
9. ALL REINFORCEMENT BAR BENDS AND HOOKS SHALL BE IN CONFORMANCE WITH A.C.I. 315, LATEST REVISION UNLESS OTHERWISE NOTED.
10. REINFORCING STEEL IN ALL CAST IN PLACE CONCRETE SHALL CONFORM TO ASTM A615 GRADE 60.

L	—————>	ANGLE
B.O.S.	—————>	BOTTOM OF STEEL
C.J.	—————>	CONSTRUCTION JOINT
CONT.	—————>	CONTINUOUS
E.F.	—————>	EACH FACE
E.W.	—————>	EACH WAY
E.J.	—————>	EXPANSION JOINT
O.C.	—————>	ON CENTER
S.J.	—————>	SAWN JOINT
S.J.I.	—————>	STEEL JOIST INSTITUTE
T.J.	—————>	TOOLED JOINT
T.O.C.	—————>	TOP OF CONCRETE
T.O.F.	—————>	TOP OF FOOTING
T.O.S.	—————>	TOP OF STEEL
T.O.W.	—————>	TOP OF WALL
U.N.O.	—————>	UNLESS NOTED OTHERWISE

INDICATES SECTION NUMBER

INDICATES SHEET SECTION DRAWN ON

INDICATES SHEET SECTION CUT ON

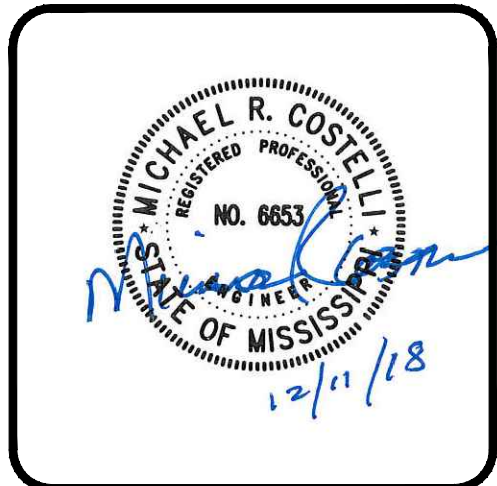
(+) DIMENSION ROUNDED UP TO NEAREST 1/16"

(-) DIMENSION ROUNDED DOWN TO NEAREST 1/16"

DRAINAGE BOX CULVERT

CONCRETE MAT, TOPPING AND KNEE WALL

PRECAST CONCRETE WALL PANELS

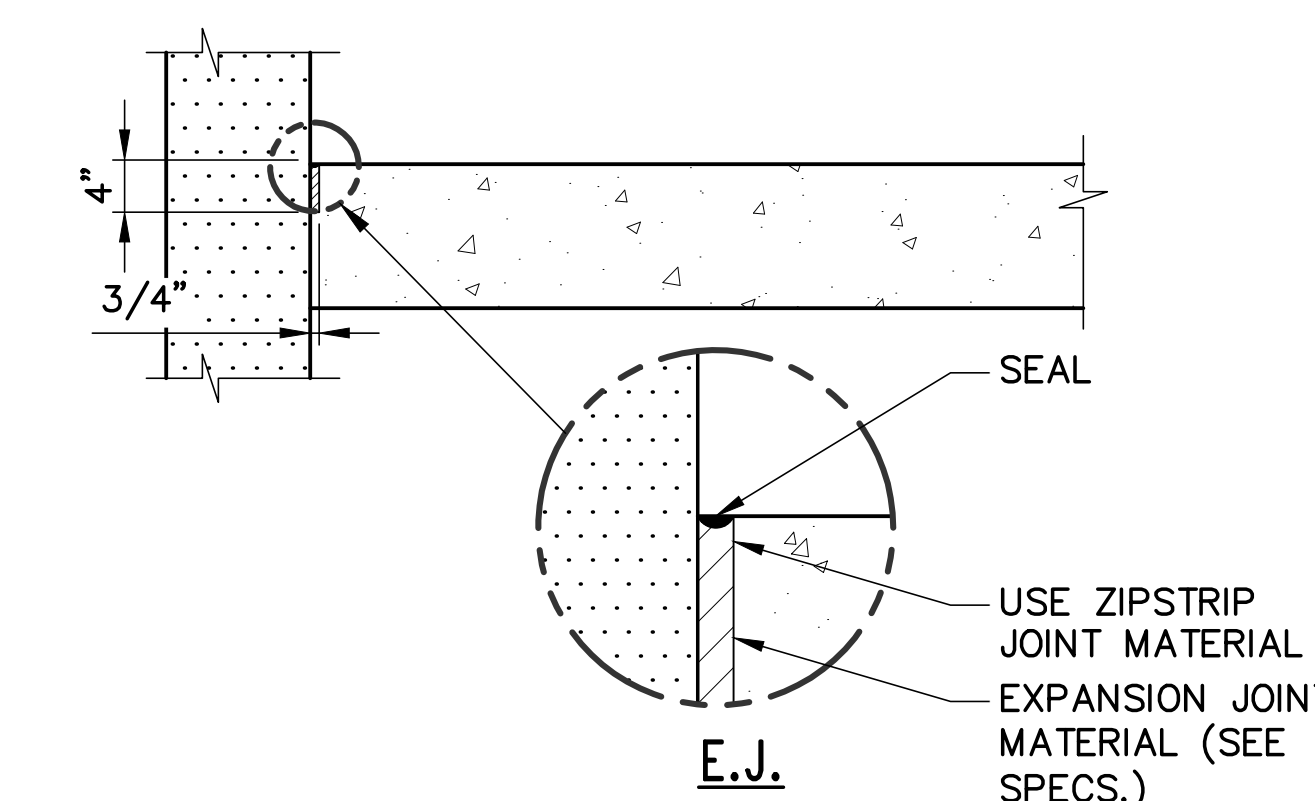
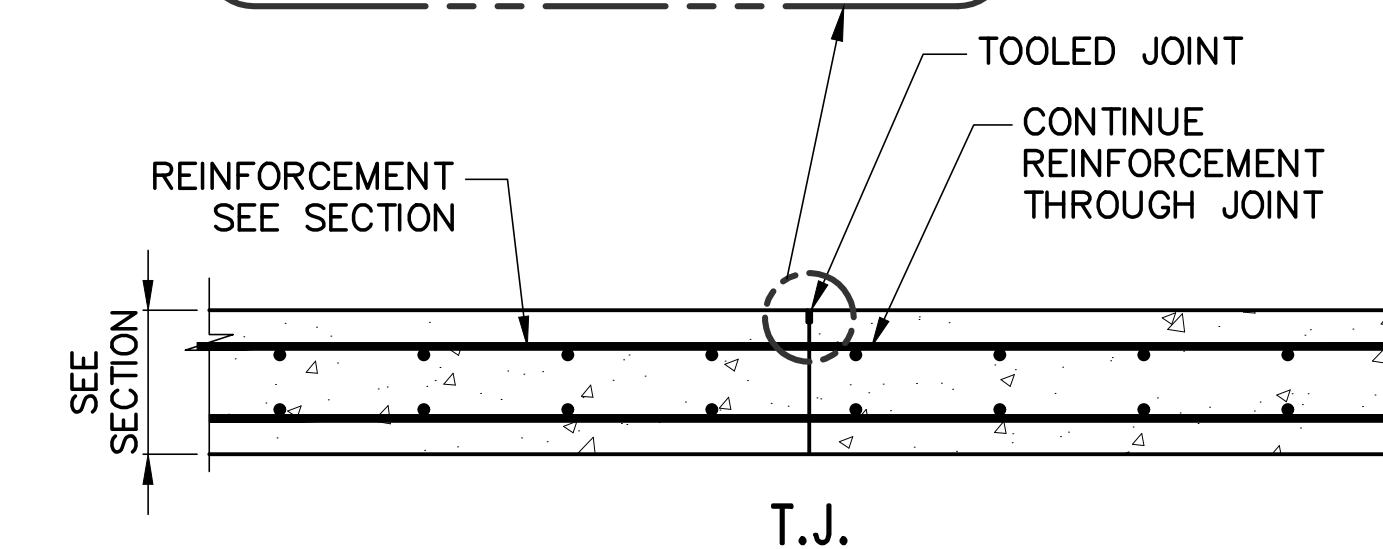
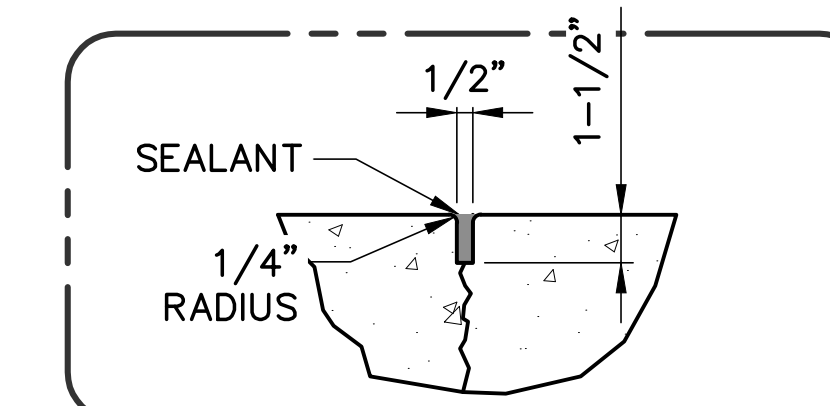
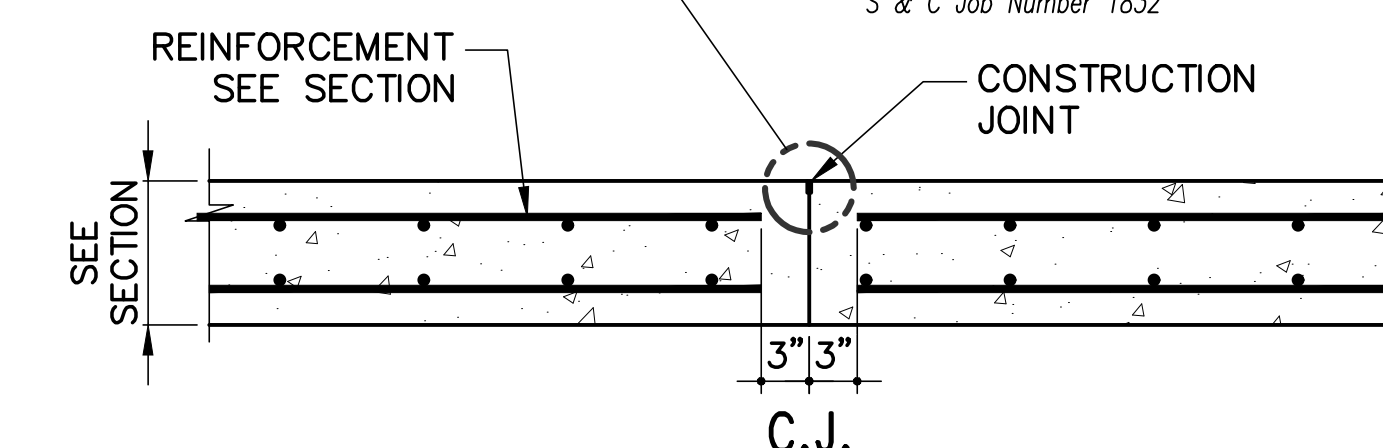
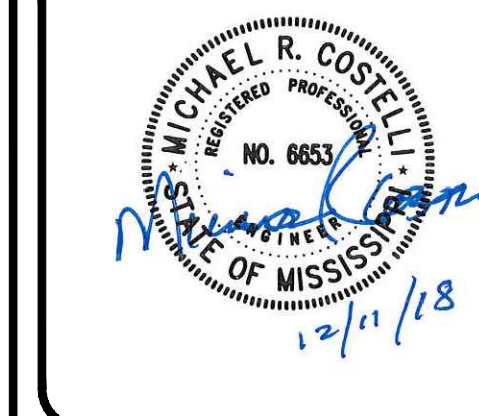
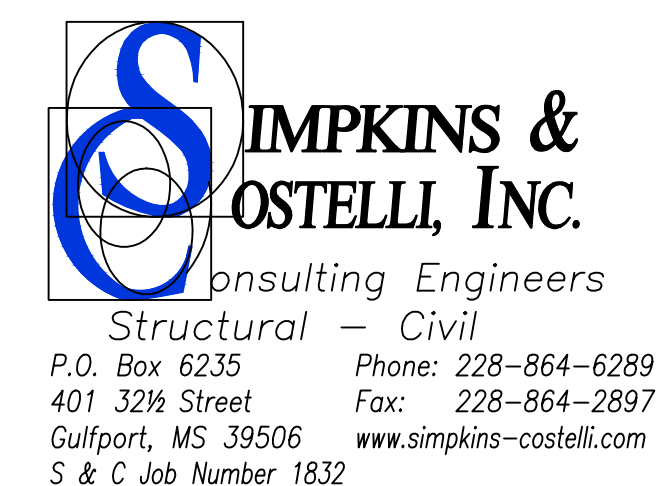
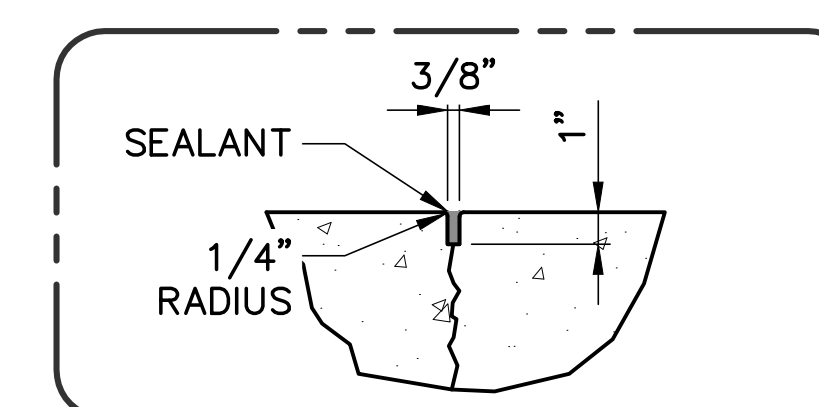
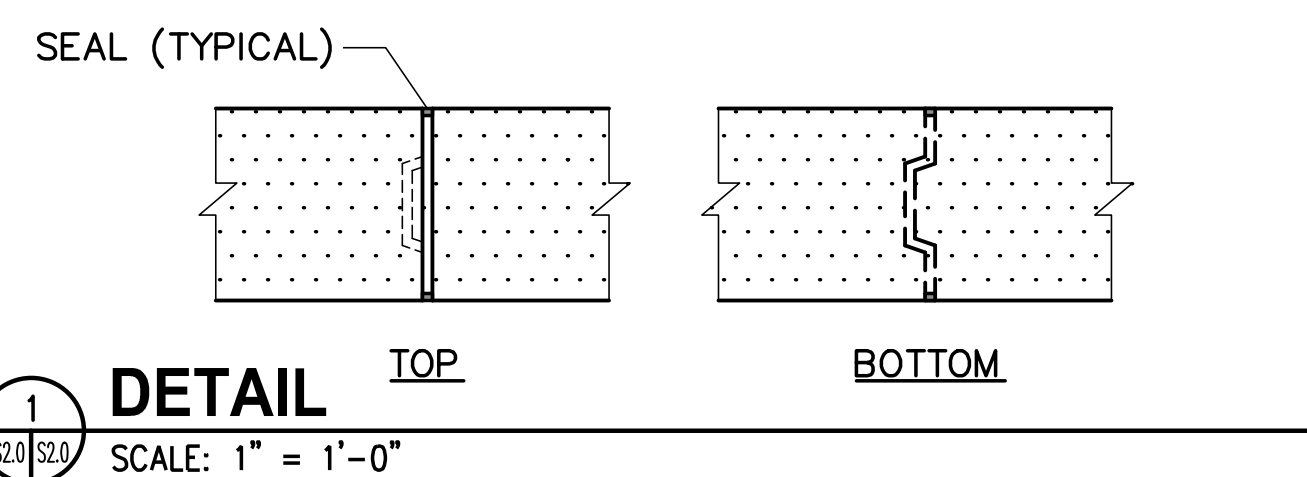


NO.	DATE	REVISION/ISSUE

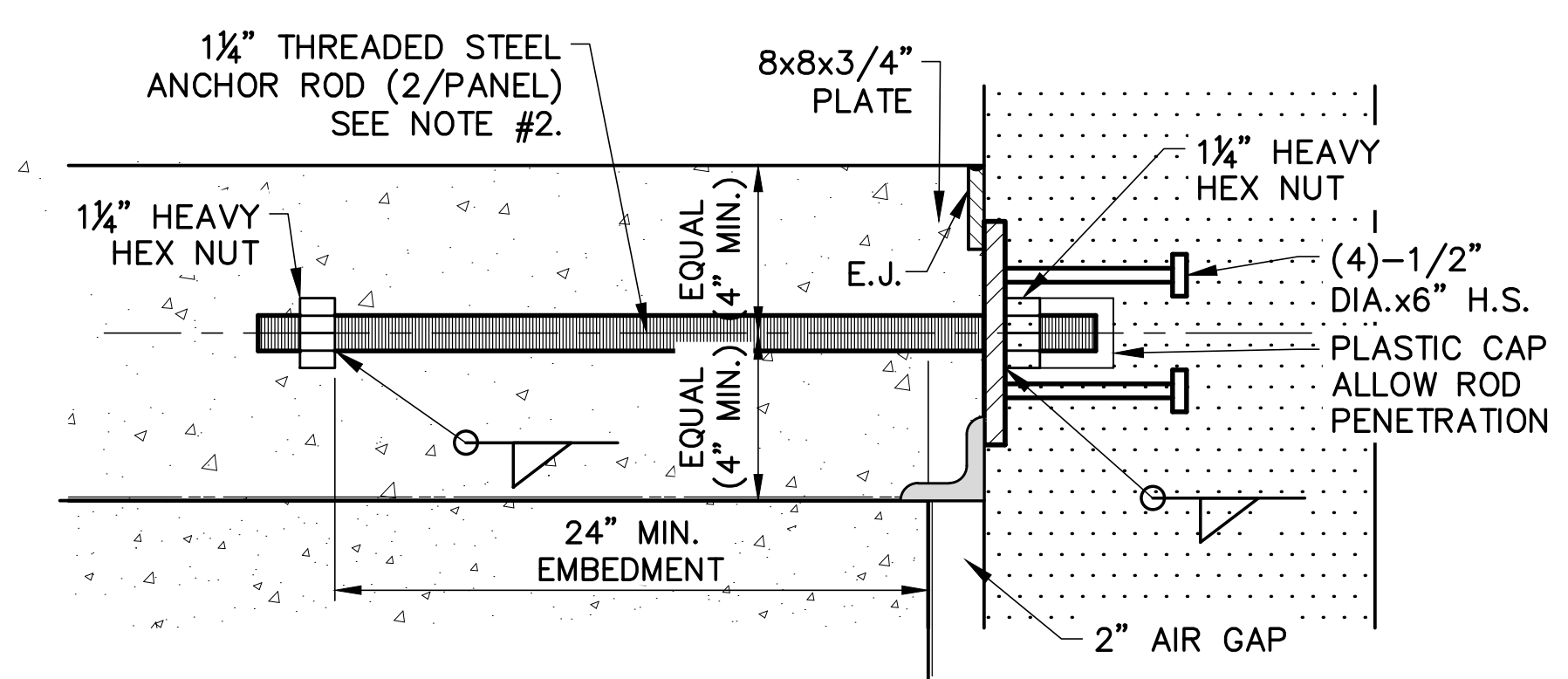
STORMWATER OUTFALLS - PHASE I

DATE 12-11-18	SHEET NUMBER		
SCALE AS NOTED	S1.0		
DRAWN BY TLL			CHECKED BY MRC
PROJECT NO. -			

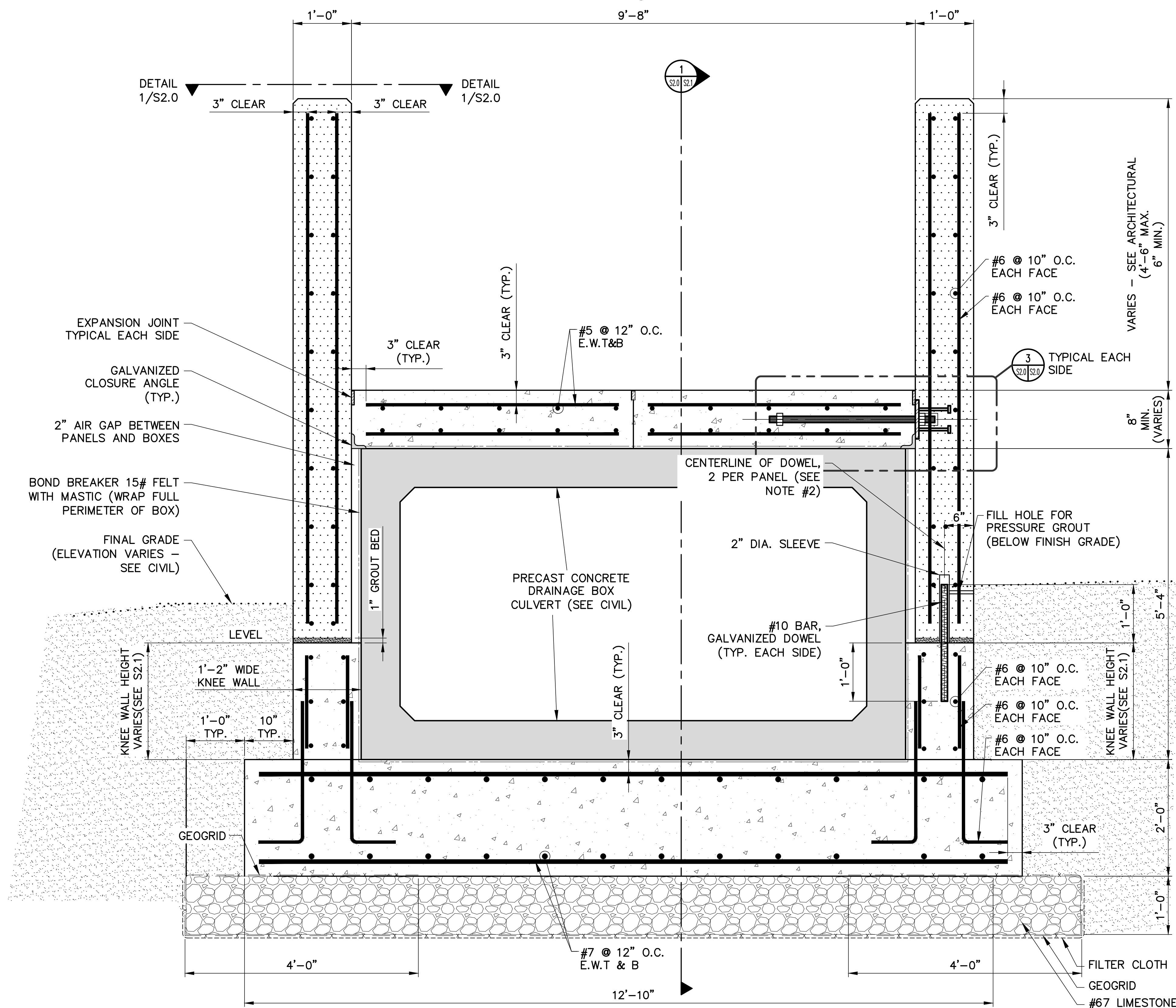
1. SHIM PRECAST WALL PANELS AS REQUIRED.
2. LOCATE @ 2'-0" FROM EACH END OF EACH PANEL.



SCALE: $\frac{3}{4}" = 1'-0"$



SCALE: 1/2" = 1'-0"



NOTE: RIGHT SIDE SHOWS DOWEL ANCHORS.
LEFT SIDE SHOWS POINTS BETWEEN.

CULVERT CROSS SECTION

SCALE: 1" = 1'-0"

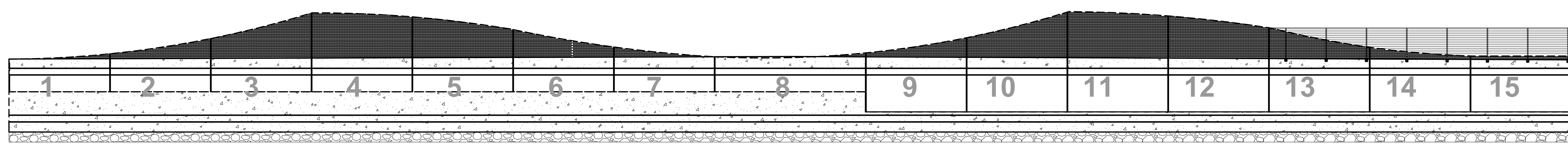
STORMWATER OUTFALLS - PHASE I

CONSTRUCTION DETAILS

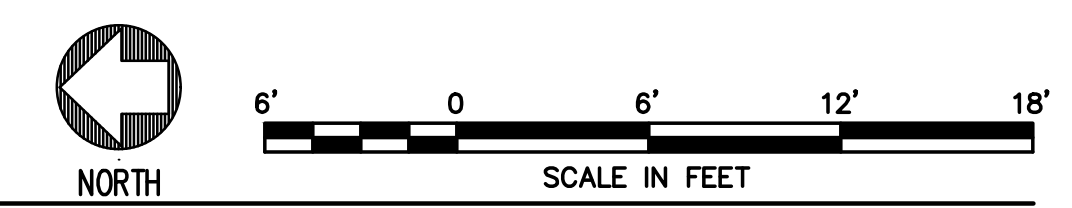
DATE	12-11-18	
SCALE	AS NOTED	
DRAWN BY	TLL	CHECKED BY MRC
PROJECT NO.		

SHEET NUMBER

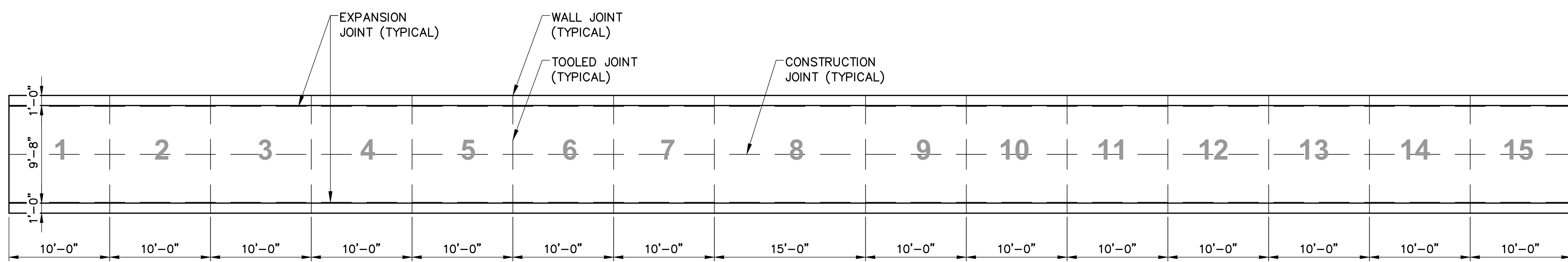
S2.0



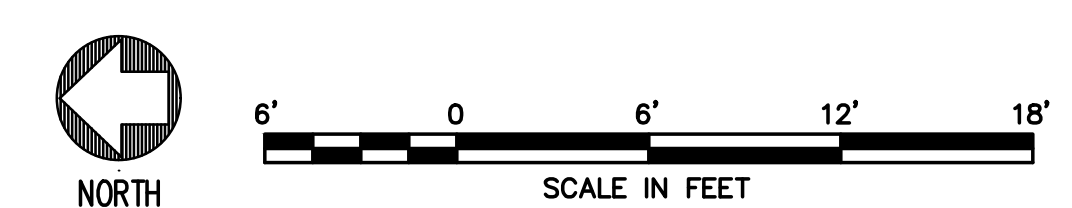
1 OVERALL KEYPLAN
SCALE: 1" = 6'-0"



- NOTE:**
1. JOINT TOPPING SLAB TO MATCH PRECAST WALL JOINTS. 10'-0" O.C. (VERIFY). (15'-0" AT PEDESTRIAN OPENING)
 2. ALL SLAB THICKNESSES TO BE VERIFIED BY CIVIL.



2 JOINT PLAN
SCALE: 1" = 6'-0"

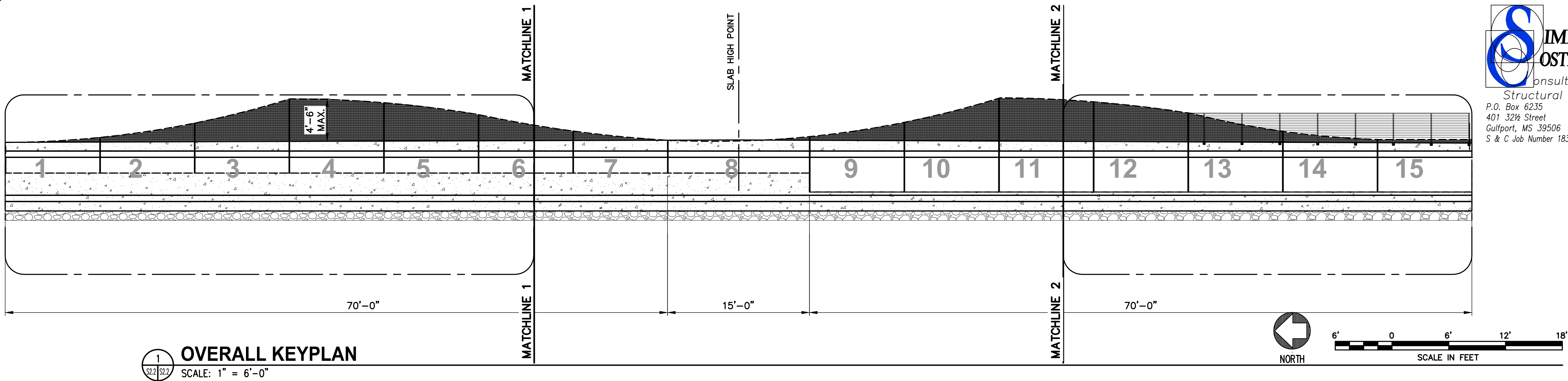


REVISION/ISSUE		DATE	NO.

STORMWATER OUTFALLS -
PHASE I

JOINT PLAN	
DATE 12-11-18	SHEET NUMBER
SCALE AS NOTED	
DRAWN BY TLL	CHECKED BY MRC
PROJECT NO. -	

S2.1



OVERALL KEYPLAN
SCALE: 1" = 6'-0"

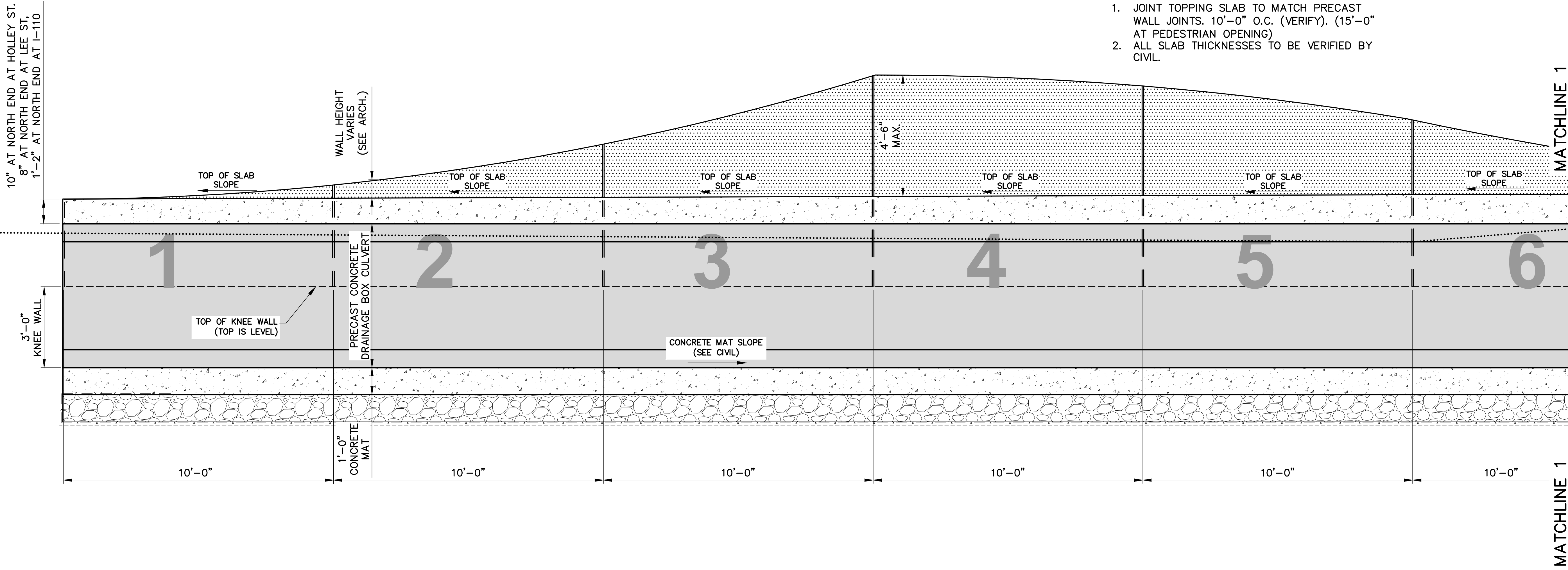
SIMPKINS & COSTELLI, INC.
Consulting Engineers
Structural - Civil
P.O. Box 6235 Phone: 228-864-6289
401 32 1/2 Street Fax: 228-864-2897
Gulfport, MS 39506 www.simpkins-costelli.com
S & C Job Number 1832

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CIVIL AND ENVIRONMENTAL
2510 14TH STREET, SUITE 1010
GULFPORT, MISSISSIPPI 39501
Office: (228)396-0486



NOTE:

1. JOINT TOPPING SLAB TO MATCH PRECAST WALL JOINTS. 10'-0" O.C. (VERIFY). (15'-0" AT PEDESTRIAN OPENING)
2. ALL SLAB THICKNESSES TO BE VERIFIED BY CIVIL.



SECTION FROM NORTH END TO MATCHLINE 1
SCALE: 1/2" = 1'-0"

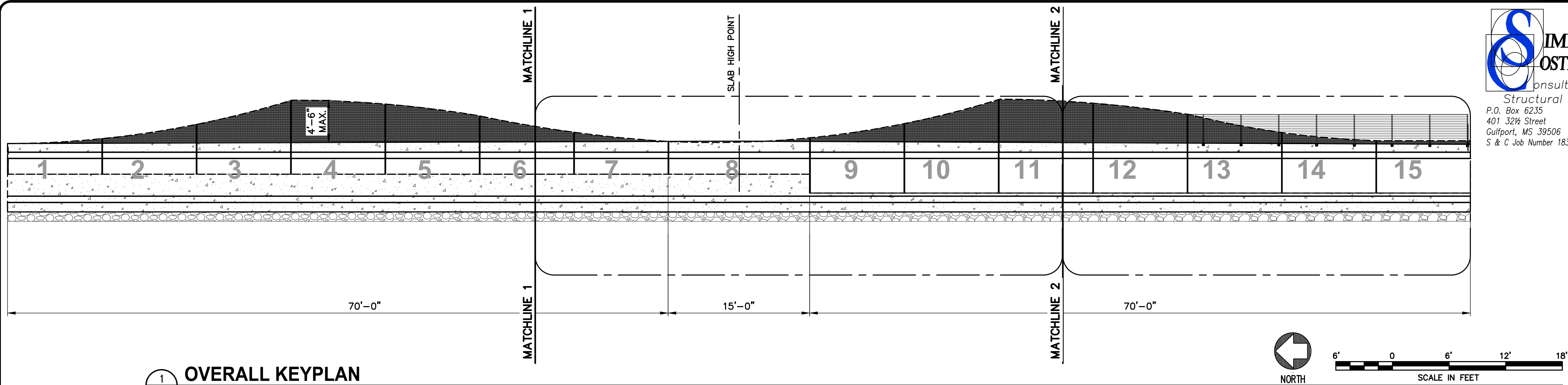
**STORMWATER OUTFALLS -
PHASE I**

**MATCHLINE
SECTION**

DATE: 12-11-18
SCALE: AS NOTED
DRAWN BY: TLL
CHECKED BY: MRC
PROJECT NO.: -

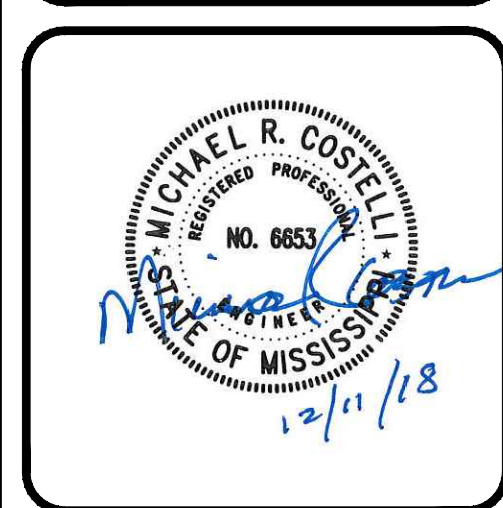
SHEET NUMBER

S2.2



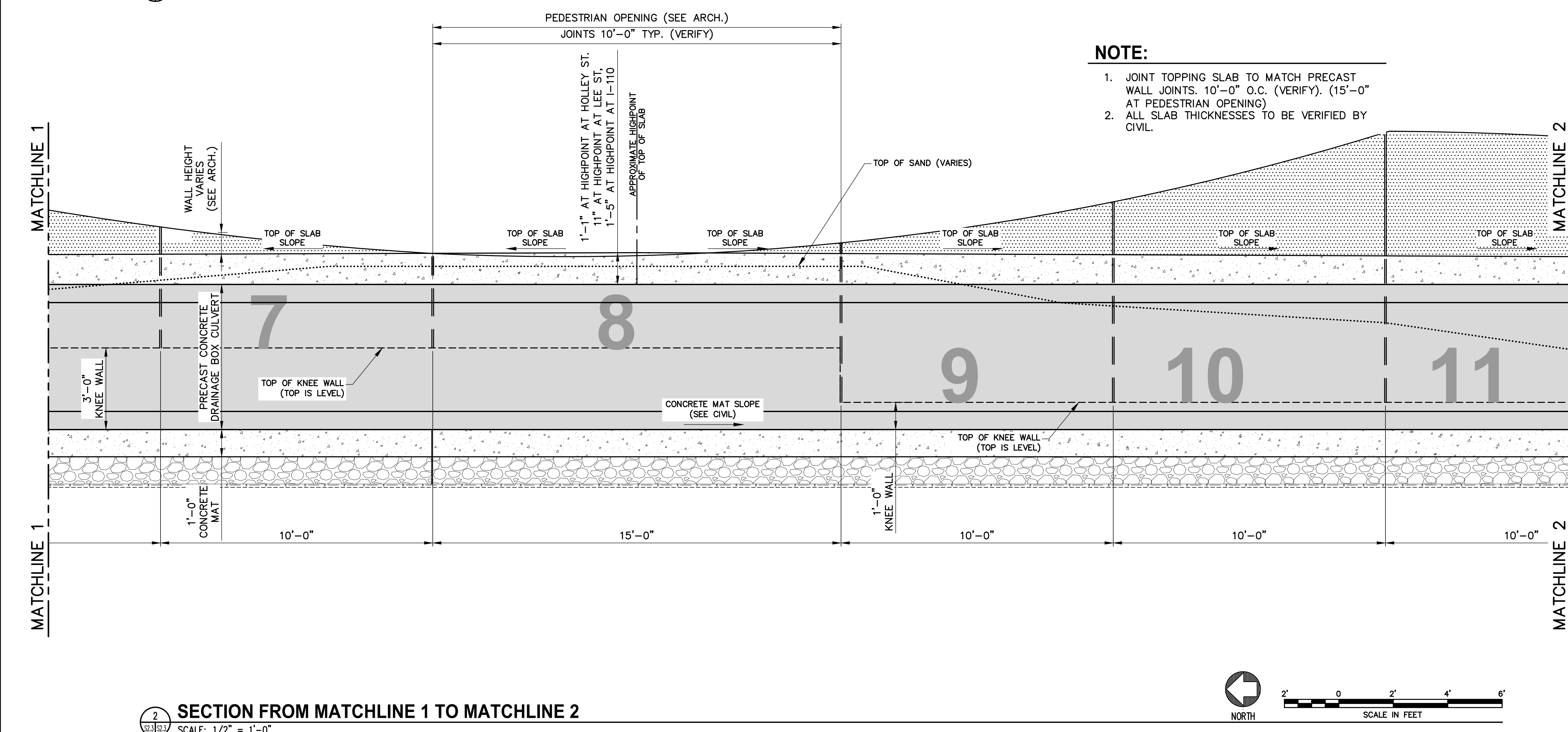
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1 OVERALL KEYPLAN
SCALE: 1" = 6'-0"

- NOTE:**
1. JOINT TOPPING SLAB TO MATCH PRECAST WALL JOINTS. 10'-0" O.C. (VERIFY). (15'-0" AT PEDESTRIAN OPENING)
 2. ALL SLAB THICKNESSES TO BE VERIFIED BY CIVIL.



2 SECTION FROM MATCHLINE 1 TO MATCHLINE 2
SCALE: 1/2" = 1'-0"

**STORMWATER OUTFALLS -
PHASE I**


MATCHLINE SECTION	
DATE 12-11-18	SHEET NUMBER S2.3
SCALE AS NOTED	
DRAWN BY TLL	CHECKED BY MRC
PROJECT NO. -	

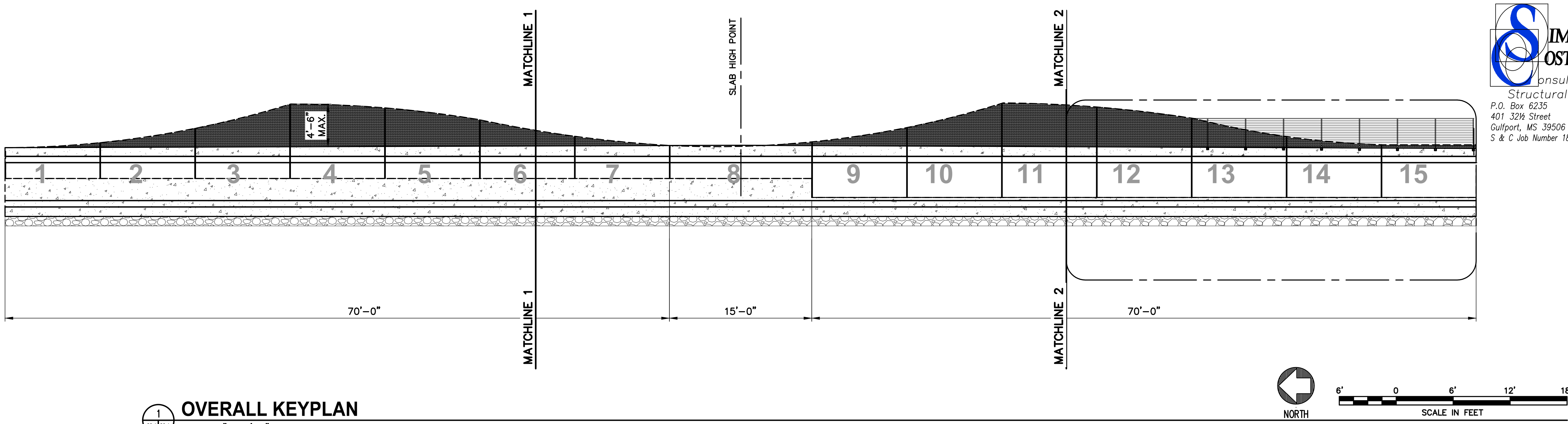


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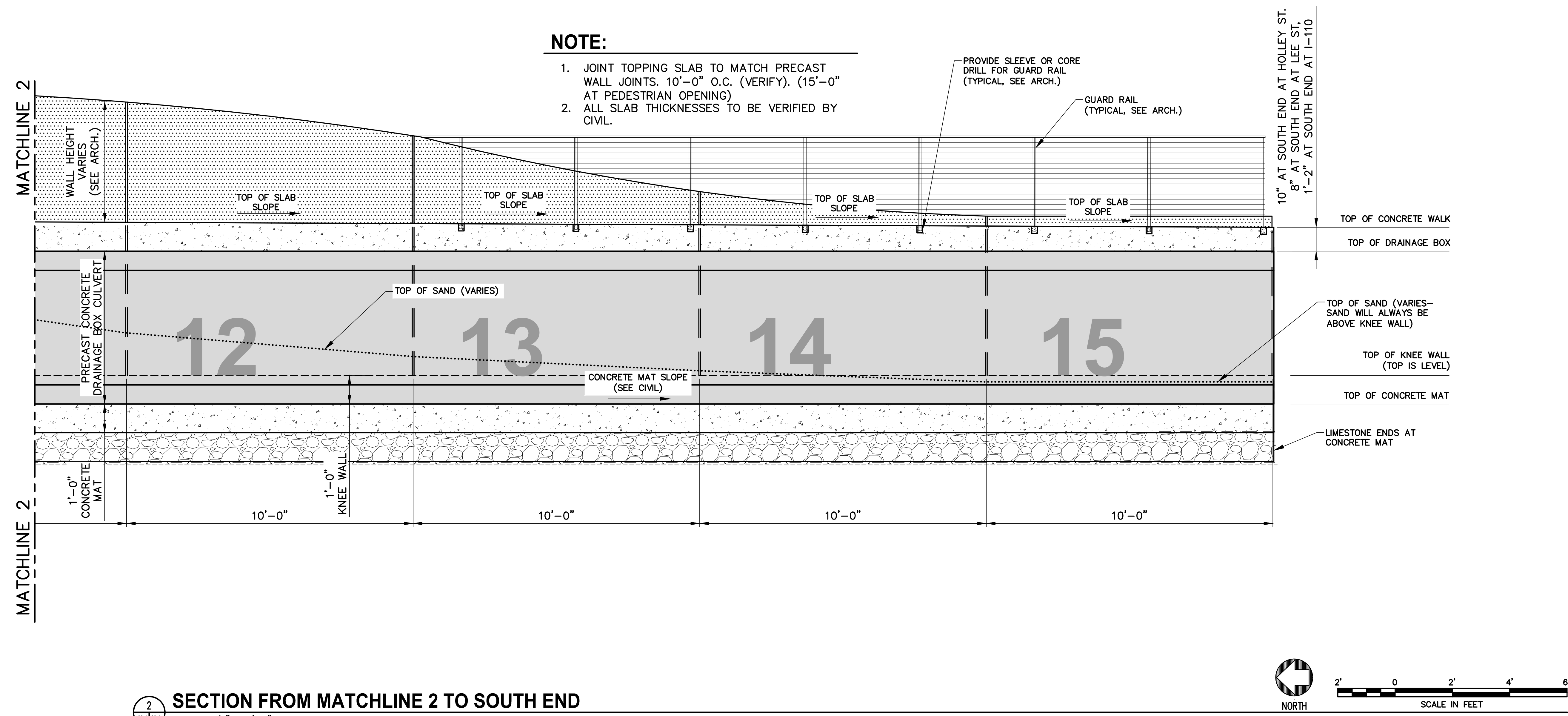
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GULFPORT, MISSISSIPPI 39501
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OVERALL KEYPLAN
SCALE: 1" = 6'-0"

- NOTE:**
1. JOINT TOPPING SLAB TO MATCH PRECAST WALL JOINTS. 10'-0" O.C. (VERIFY). (15'-0" AT PEDESTRIAN OPENING)
 2. ALL SLAB THICKNESSES TO BE VERIFIED BY CIVIL.

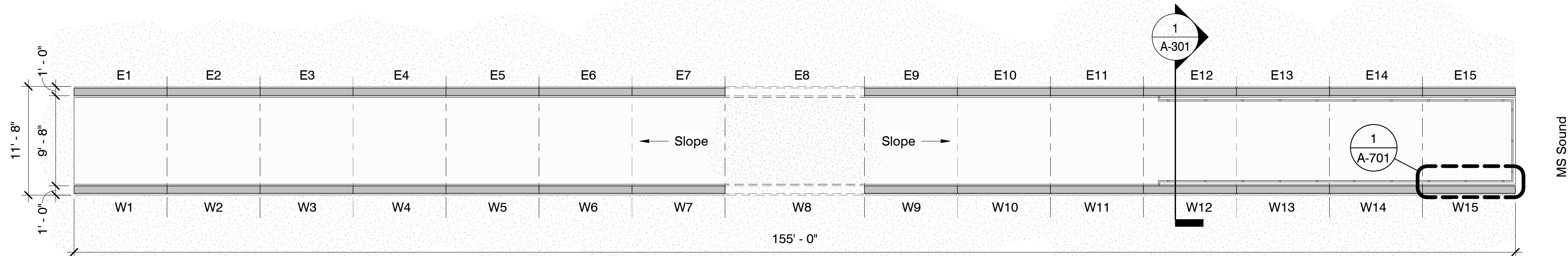


SECTION FROM MATCHLINE 2 TO SOUTH END
SCALE: 1/2" = 1'-0"

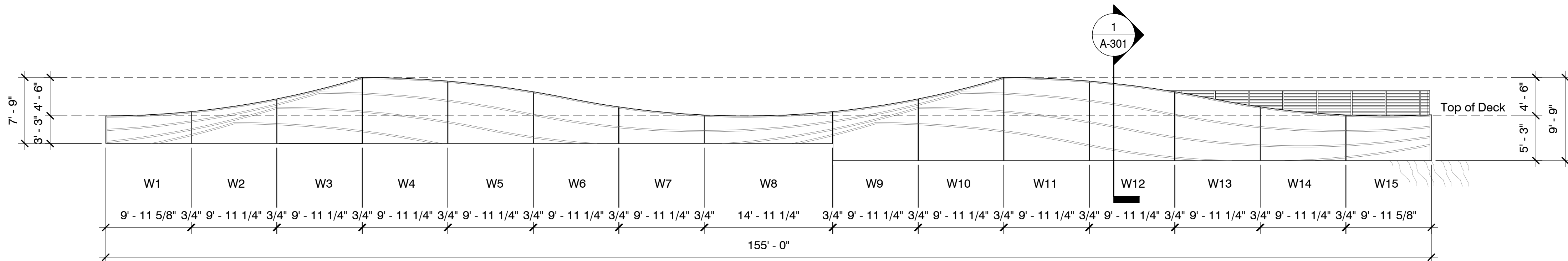
NO.	DATE	REVISION/ISSUE

**STORMWATER OUTFALLS -
PHASE I**

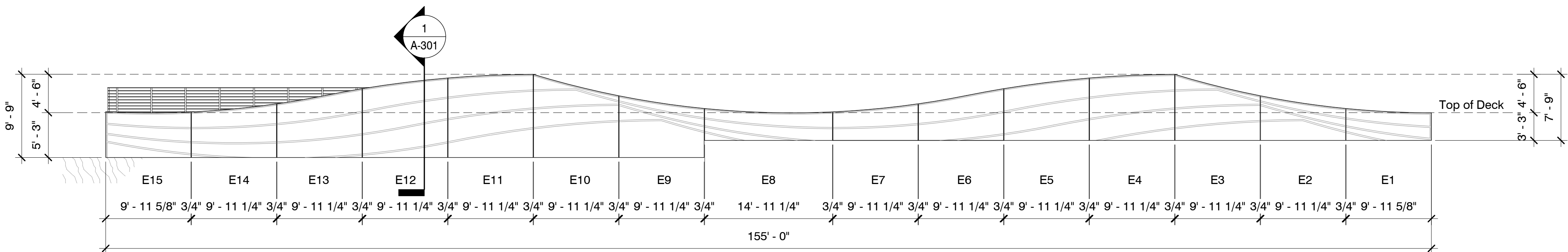
MATCHLINE SECTION	
DATE 12-11-18	SHEET NUMBER
SCALE AS NOTED	S2.4
DRAWN BY TLL	
CHECKED BY MRC	
PROJECT NO.	



1 Composite Floor Plan - Lee Street
1/8" = 1'-0"



2 Composite Elevation West - Lee Street
1/8" = 1'-0"



3 Composite Elevation East - Lee Street
1/8" = 1'-0"

General Elevation Notes

- Panel to have a light acid-wash finish on all surfaces.

General Plan Notes

- All dimensions are to finish face U.N.O.
- All joints larger than 1/8" to be filled with Joint Filler per manufactures specifications.
- All precast elements shall be erected, and set plum and square with adjoining elements with construction best practices.



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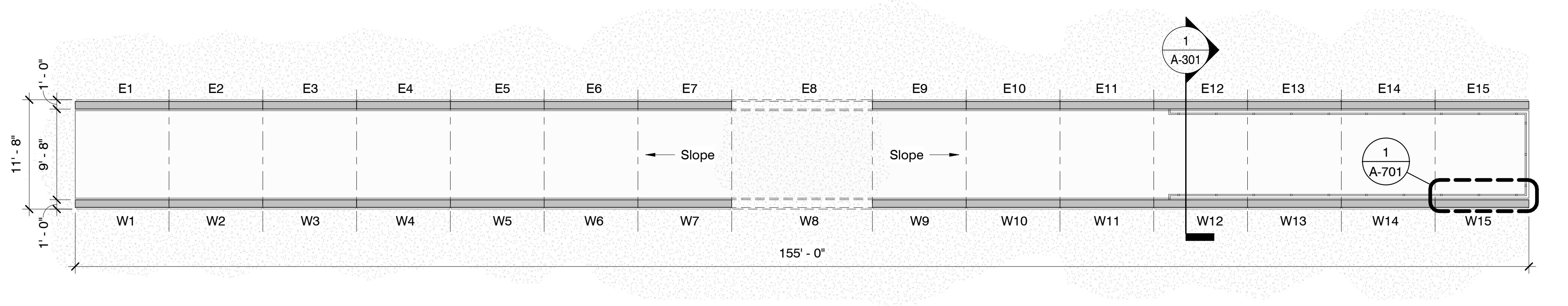
STORMWATER OUTFALLS - PHASE I

Outfalls Plan & Elevation -
Lee Street

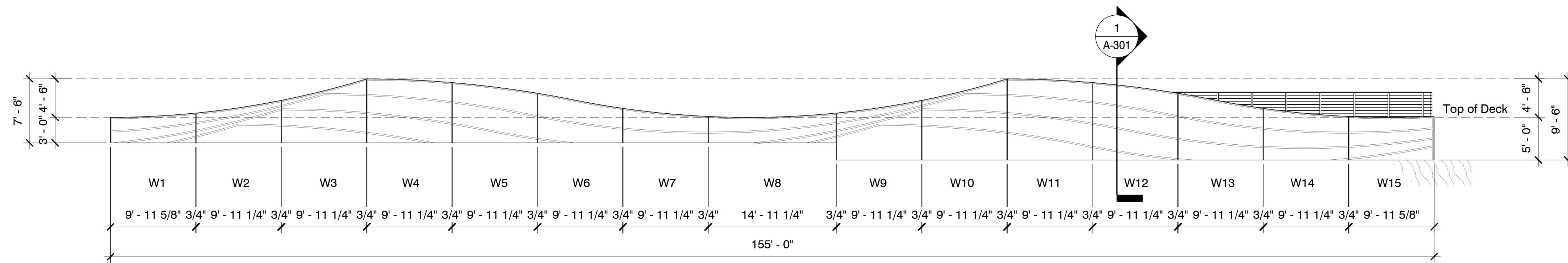


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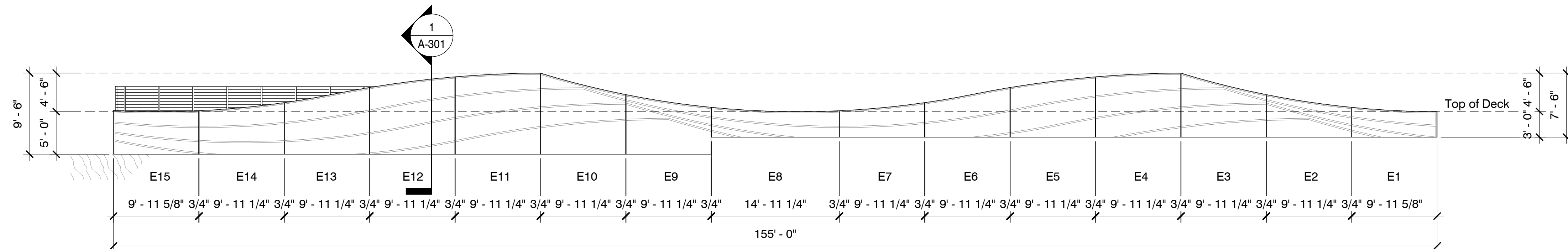
DATE	28 Nov, 2018	SHEET NUMBER
SCALE		A-001
DRAWN BY	NP	CHECKED BY
PROJECT NO.	18084	



1 Composite Floor Plan - Holley Street
1/8" = 1'-0"



2 Composite Elevation West - Holley Street
1/8" = 1'-0"



3 Composite Elevation East - Holley Street
1/8" = 1'-0"

General Elevation Notes

- Panel to have a light acid-wash finish on all surfaces.

General Plan Notes

- All dimensions are to finish face U.N.O.
- All joints larger than 1/8" to be filled with Joint Filler per manufactures specifications.
- All precast elements shall be erected, and set plum and square with adjoining elements with construction best practices.



NO.	DATE	REVISION/ISSUE			

STORMWATER OUTFALLS - PHASE I

Outfalls Plan & Elevation - Holley Street

DATE	28 Nov, 2018	SHEET NUMBER	A-002
SCALE			
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PROJECT NO.	18084		



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General Elevation Notes

- Panel to have a light acid-wash finish on all surfaces.

General Plan Notes

- All dimensions are to finish face U.N.O.
- All joints larger than 1/8" to be filled with Joint Filler per manufactures specifications.
- All precast elements shall be erected, and set plum and square with adjoining elements with construction best practices.

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NO. DATE

STORMWATER OUTFALLS -
PHASE I

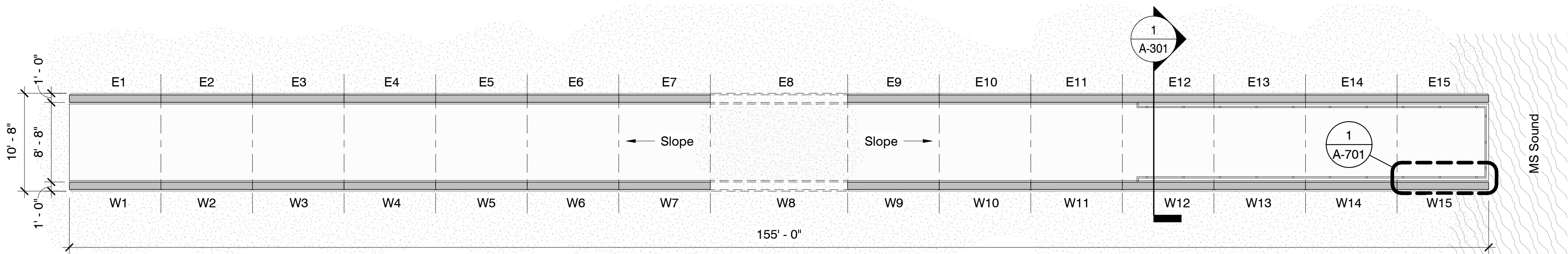
Outfalls Plan & Elevation -
I-110 Loop

DATE: 28 Nov, 2018
SCALE:
DRAWN BY: TBD
PROJECT NO.: 18084

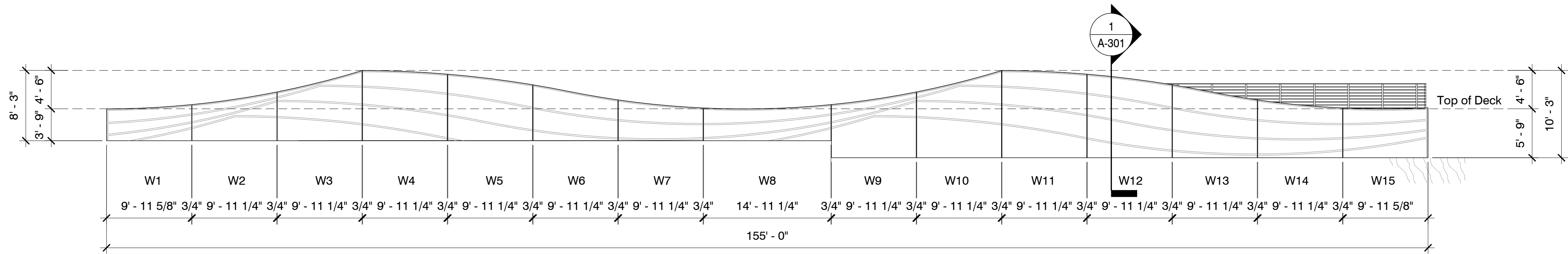
SHEET NUMBER
A-003

DALE
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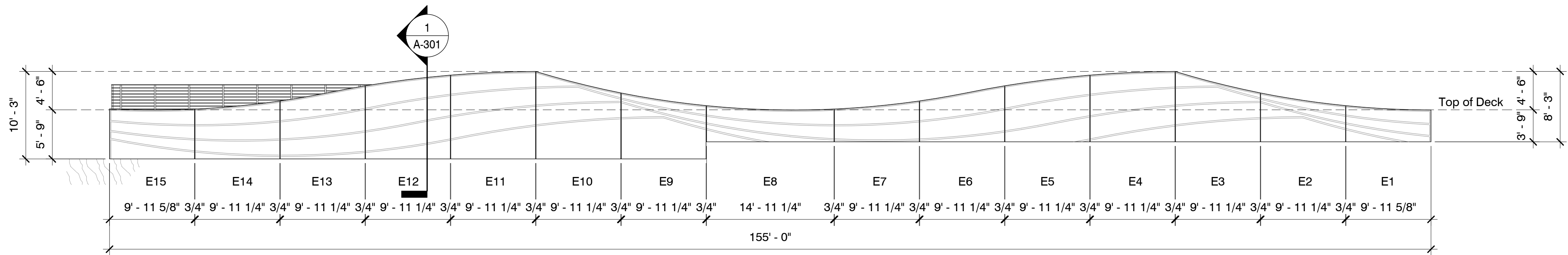
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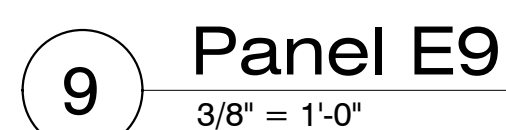
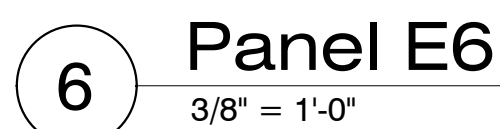
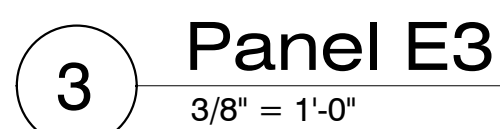
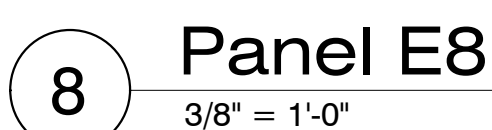
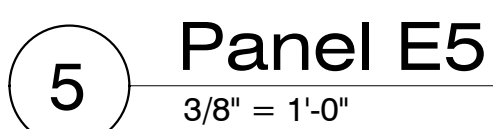
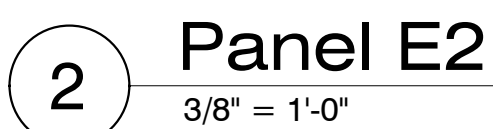
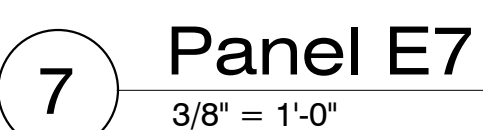
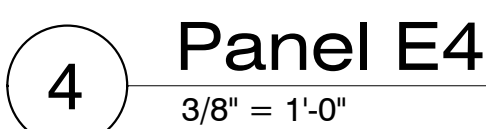
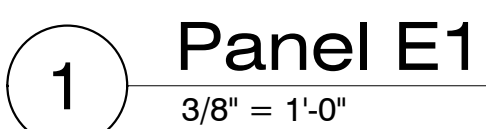
1 Composite Floor Plan - I-110 Loop
1/8" = 1'-0"



2 Composite Elevation West - I-110 Loop
1/8" = 1'-0"



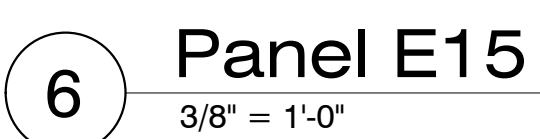
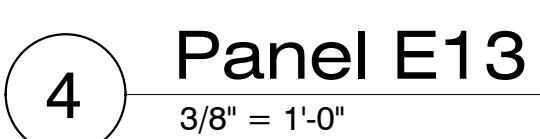
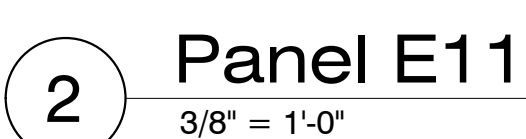
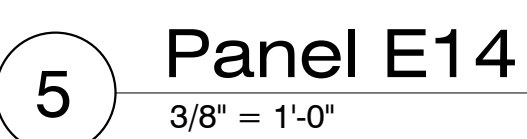
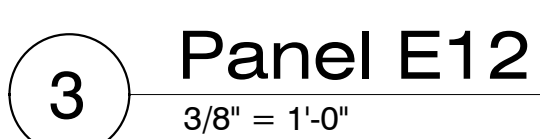
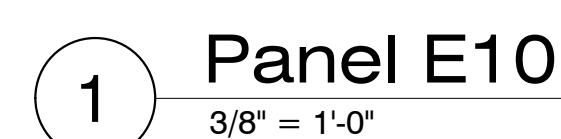
3 Composite Elevation East - I-110 Loop
1/8" = 1'-0"



REGISTERED ARCHITECT
LEIGH GRIMES JAUNSEN
3923
12/31/18
STATE OF MISSISSIPPI

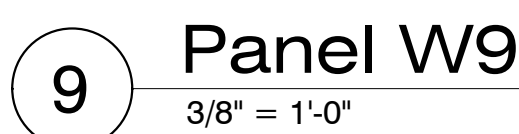
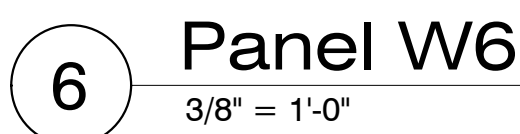
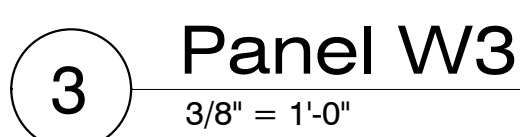
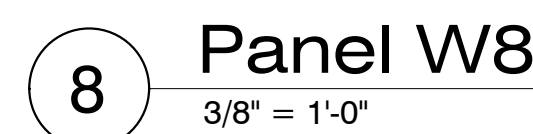
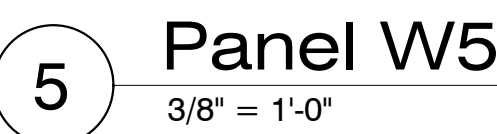
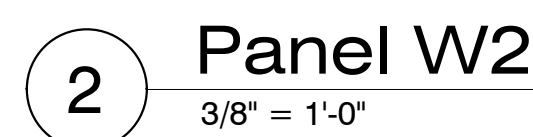
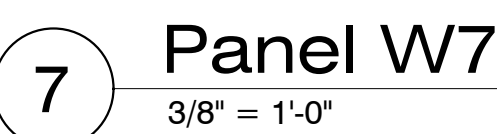
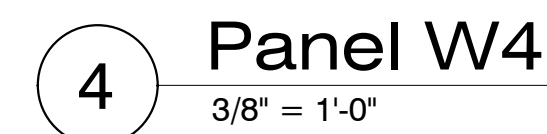
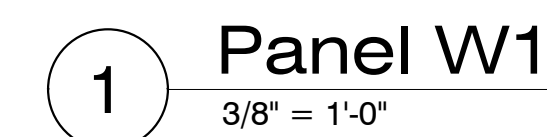
DATE 28 Nov, 2018		SHEET NUMBER A-21
SCALE		
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PROJECT NO. 18084		

A-211



SHEET NUMBER

A-212



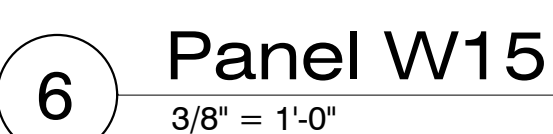
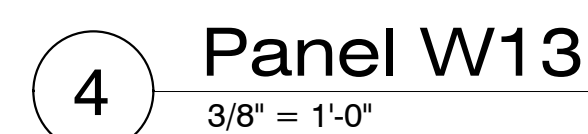
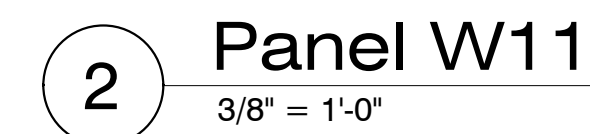
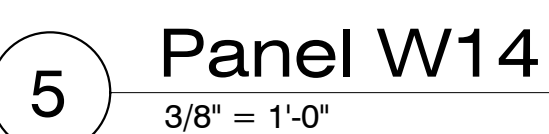
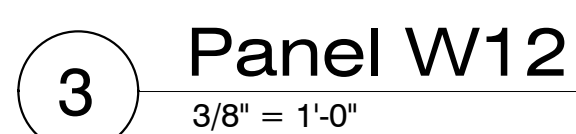
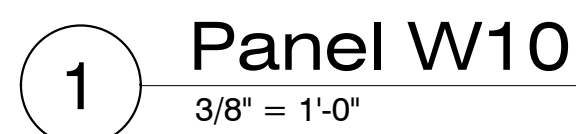
DATE 28 Nov, 2018		SHEET NUMBER A-213
SCALE		
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PROJECT NO. 18084		

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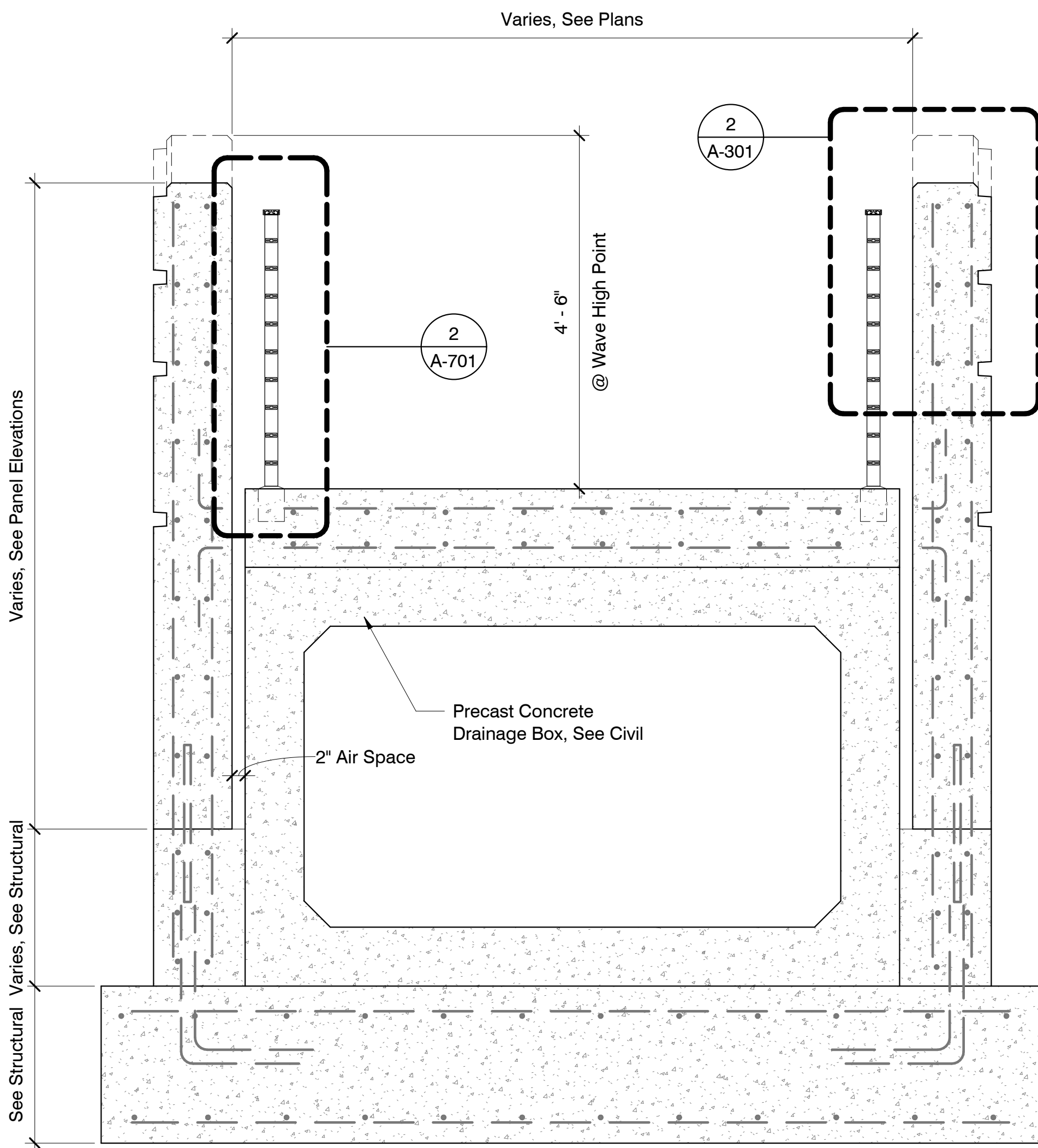
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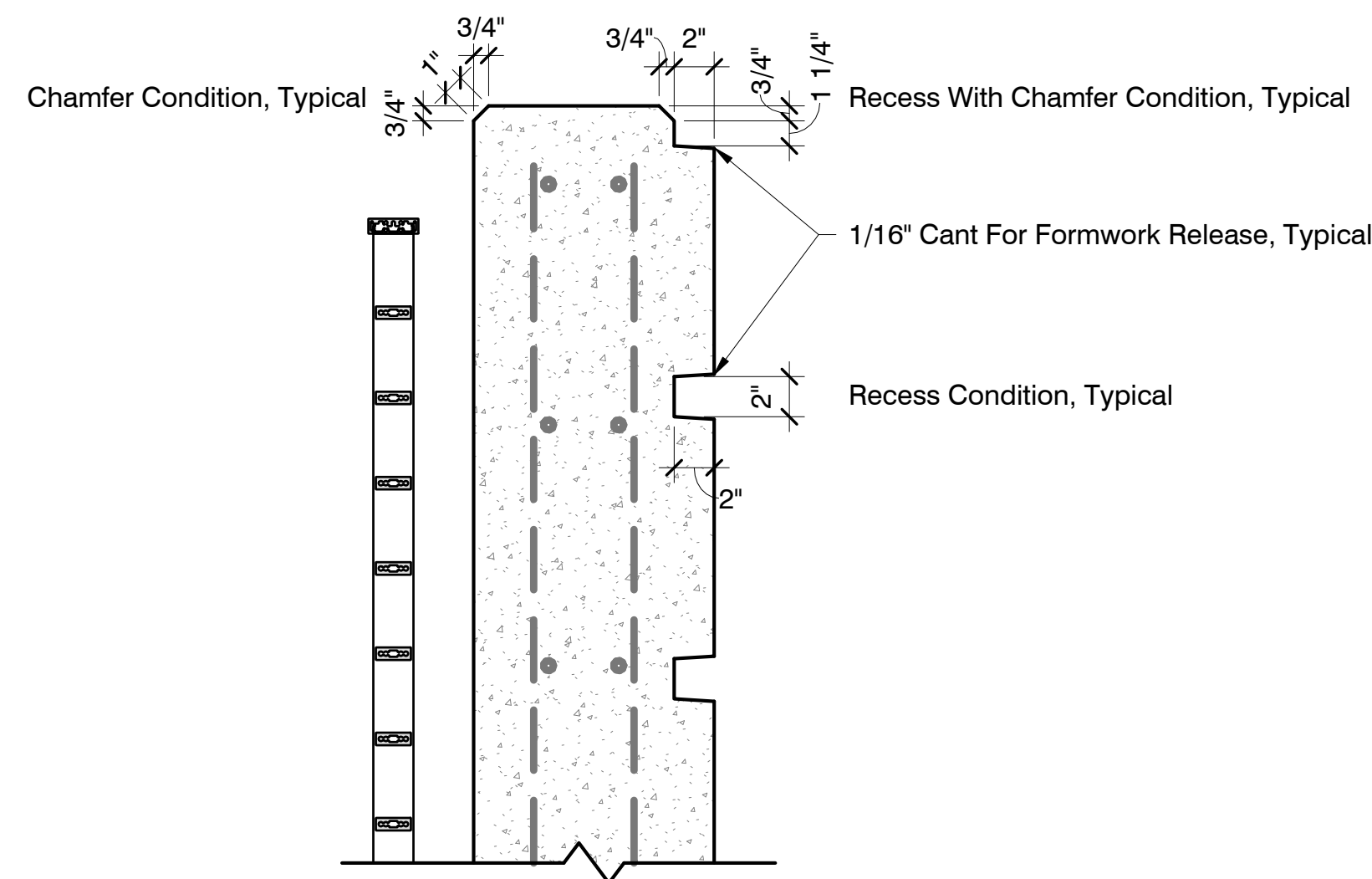
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A-214



1 Typical Section
3/4" = 1'-0"



2 Enlarged Section 1
1 1/2" = 1'-0"

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STORMWATER OUTFALLS -
PHASE I

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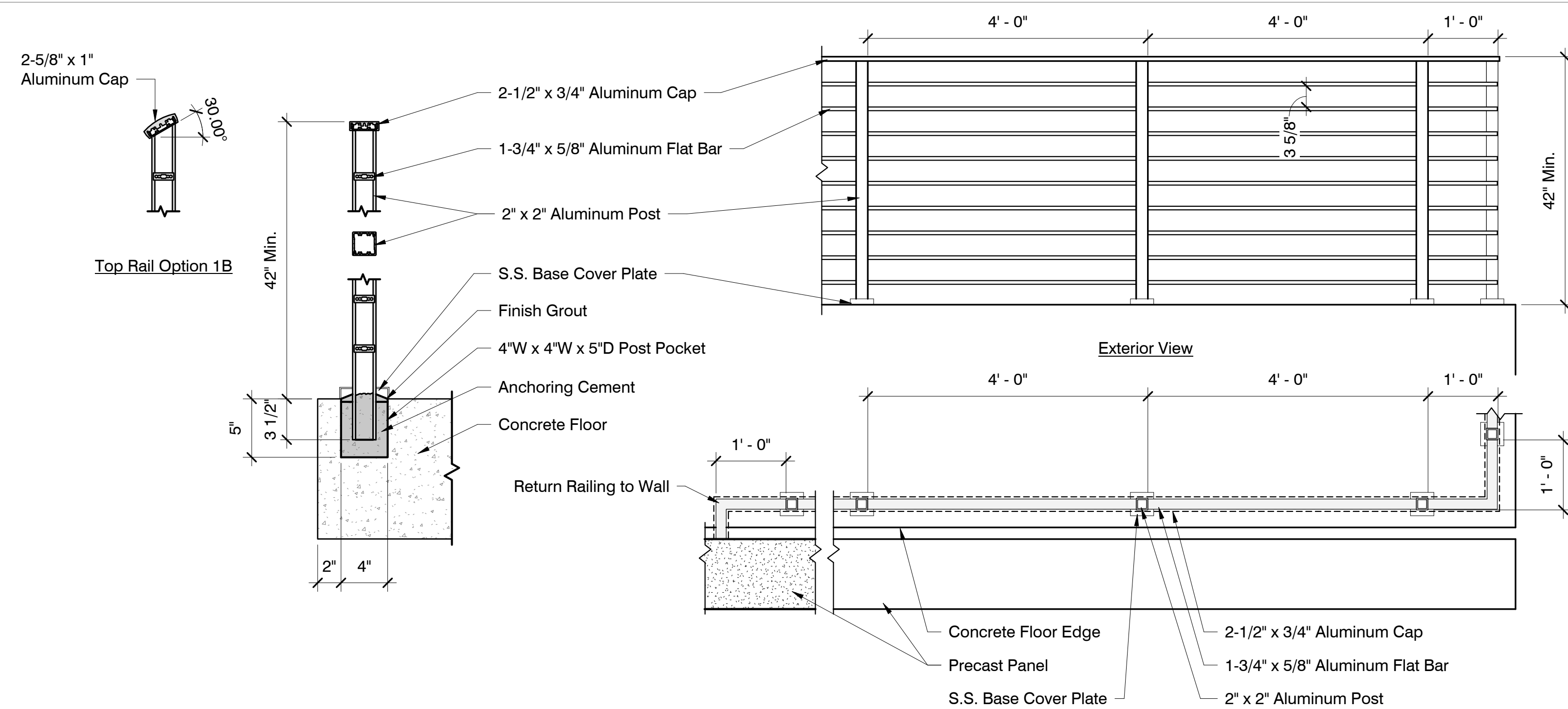
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Section Details

DATE	28 Nov, 2018
SCALE	TBD
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PROJECT NO.	18084

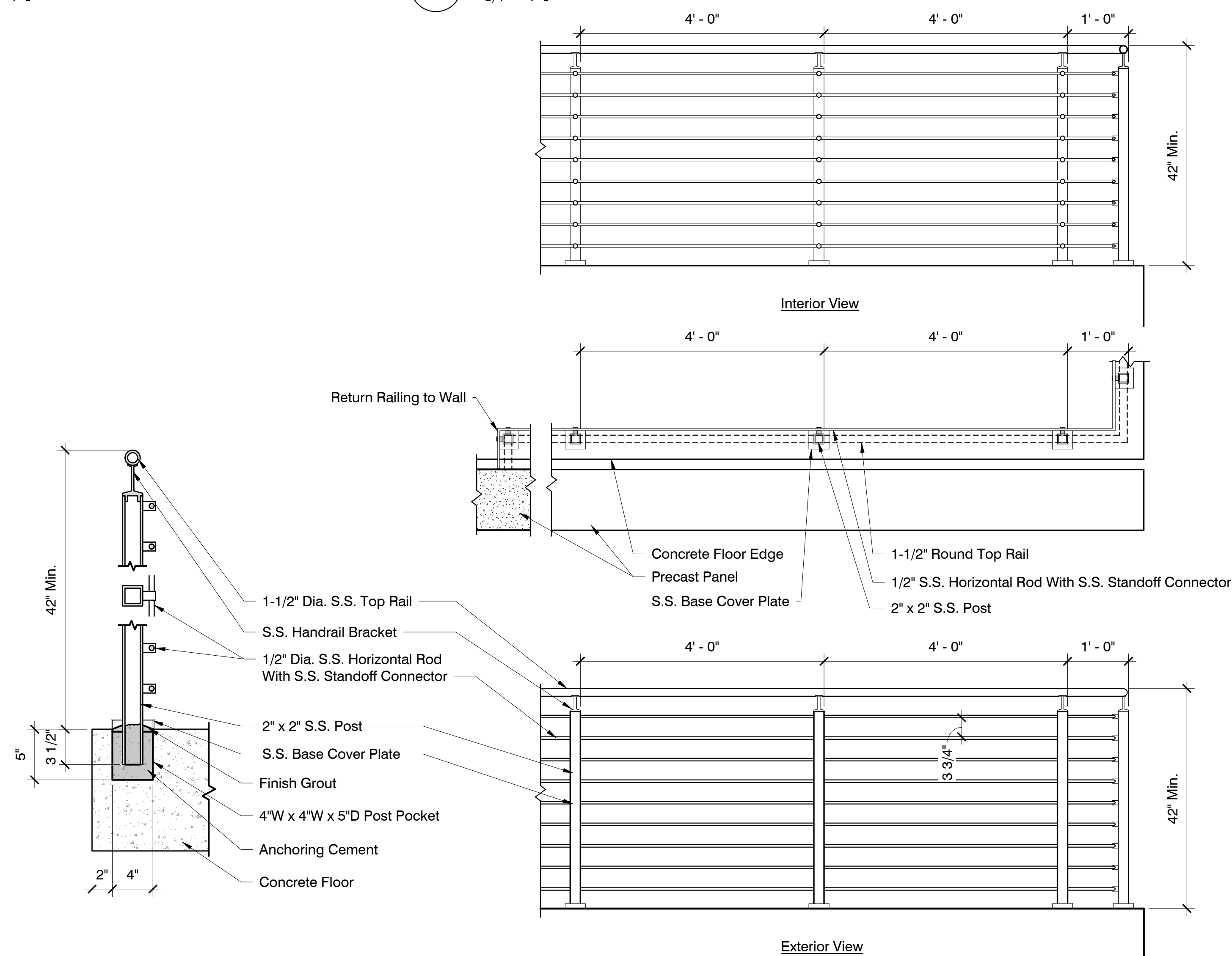
SHEET NUMBER

A-301



2 Railing Section Option 1
1 1/2" = 1'-0"

1 Railing Elevation/Plan Option 1
3/4" = 1'-0"



4 Railing Section Option 2
1 1/2" = 1'-0"

3 Railing Elevation/Plan Option 2
3/4" = 1'-0"

General Guardrail Notes

- Guardrail height measured from finished surface shall be 42" minimum.
- Clear space between a guardrail and a wall or other surface shall be a minimum of 1 1/2 inches and maximum of 3 1/2 inches.

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STORMWATER OUTFALLS - PHASE I

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Railing Details

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A-701