

**CONSTRUCTION NOTES FOR PLACEMENT OF TENSAR GEOGRIDS AND BACKFILL SOILS
FOR TENSAR PRECAST CONCRETE REINFORCED WALLS
TENSAR MSE RETAINING WALL SYSTEM**

1.0 MATERIALS

1.1 GEOGRID REINFORCING SHALL BE TENSAR BIAXIAL AND UNIAXIAL GEOGRIDS MANUFACTURED BY THE TENSAR CORPORATION, MORROW, GEORGIA.

1.2 BODKIN BARS SHALL BE 1/2" x 1/4" HDPE BARS MANUFACTURED BY THE TENSAR CORPORATION, MORROW, GEORGIA.

1.3 DRAINAGE MATERIALS

1.3.1 GEOTEXTILE TG600 FABRIC SHALL BE MANUFACTURED BY EVERGREEN TECHNOLOGIES, INC., EVERGREEN, ALABAMA, OR EQUIVALENT AS APPROVED BY THE ENGINEER.

2.0 TECHNICAL REQUIREMENTS

2.1 FILL MATERIALS SHALL BE PLACED FROM THE BACK FACE OF THE WALL TOWARDS THE TAILS OF THE GEOGRID TO ENSURE FURTHER TENSIONING.

2.2 FILL SHALL BE COMPACTED AS SPECIFIED IN SECTION 548 OF THE PROJECT SPECIFICATIONS.

2.3 AN APPROVED SET OF CONSTRUCTION DRAWINGS AND CONTRACT SPECIFICATIONS SHALL BE ON-SITE AT ALL TIMES, DURING CONSTRUCTION OF THE TENSAR RETAINING WALL.

3.0 TENSAR GEOGRID PLACEMENT

3.1 TENSAR GEOGRID SHALL BE PLACED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE SHOP DRAWINGS.

3.2 TENSAR GEOGRID LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS. REINFORCED FILL ZONE LENGTH IS MEASURED FROM THE BACK FACE OF THE CONCRETE PANEL, EXTENDING TO THE TAIL OF THE GEOGRIDS.

3.2.1 TENSAR GEOGRID REINFORCEMENT SHALL BE CONTINUOUS THROUGHOUT THEIR EMBEDMENT LENGTH(S). THE BODKIN CONNECTION SHALL NOT BE UTILIZED UNLESS PRE-APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

3.2.2 IF PRE-APPROVED, TENSAR UNIAXIAL GEOGRIDS MAY BE SPLICED UTILIZING THE BODKIN CONNECTION DETAIL. NO MORE THAN ONE SPLICE SHALL BE ALLOWED IN ANY ONE LENGTH OF REINFORCING.

3.3 PRIOR TO PLACING FILL, THE GEOGRID MATERIALS SHALL BE CONNECTED TO THE PANELS PER PANEL CONNECTION DETAIL (SEE TYPICAL DETAILS) AND PULLED TAUT AND ANCHORED TO REMOVE ANY SLACK IN THE GEOGRIDS.

3.4 TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID. A MINIMUM FILL THICKNESS OF SIX INCHES IS REQUIRED FOR OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. TURNING OF TRACKED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT TRACKS FROM DISPLACING THE FILL AND/OR THE GEOGRID.

3.5 RUBBER-TIRED VEHICLES MAY PASS OVER THE GEOGRID REINFORCEMENT AT SLOW SPEEDS, LESS THAN 10 MPH. SUDDEN BRAKING AND SHARP TURNING SHALL BE AVOIDED.

3.6 TENSAR UNIAXIAL GEOGRID SHALL BE ROLLED OUT WITH THE LONG AXIS OF THE APERTURES (MACHINE DIRECTION) PERPENDICULAR TO THE WALL FACE. TENSAR BIAXIAL GEOGRIDS SHALL BE ROLLED OUT WITH THE MACHINE DIRECTION BAR PARALLEL TO THE WALL FACE.

4.0 CHANGES TO GEOGRID LAYOUT OR PLACEMENT

4.1 NO CHANGES TO THE TENSAR GEOGRID LAYOUT, INCLUDING, BUT NOT LIMITED TO, LENGTH, GEOGRID TYPE, OR ELEVATION, SHALL BE MADE WITHOUT THE EXPLICIT WRITTEN CONSENT OF TENSAR EARTH TECHNOLOGIES, INC.

5.0 DRAINAGE

5.1 AT THE END OF EACH WORK DAY, BACKFILL SURFACE SHALL BE GRADED AWAY FROM THE WALL FACE A MINIMUM OF 2 PERCENT SLOPE AND A TEMPORARY SOIL BERM SHALL BE CONSTRUCTED NEAR THE WALL CREST TO PREVENT SURFACE WATER RUNOFF FROM OVERTOPPING THE WALL.

5.2 AT THE END OF EACH WORK DAY, BACKFILL SURFACE SHALL BE COMPACTED WITH A SMOOTH WHEEL ROLLER TO MINIMIZE PONDING OF WATER AND SATURATION OF THE BACKFILL.

5.3 THE TENSAR WALL HAS BEEN DESIGNED ON THE ASSUMPTION THAT THE REINFORCED FILL MATERIAL SHALL BE FREE OF SUBSURFACE DRAINAGE OF WATER (SEEPAGE).

5.4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATER RETENTION AS NEEDED DURING CONSTRUCTION.

6.0 DESIGN PARAMETERS

6.1 SOIL PARAMETERS

SEE WALL CONTROL DRAWINGS FOR SOIL CHARACTERISTICS OF FOUNDATION MATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE SOIL DESIGN PARAMETERS FOR BACKFILL MATERIAL BASED ON THE ACTUAL SOIL CHARACTERISTICS UTILIZED AT THE SITE. THE VALUES OF FRICTION ANGLE, APPARENT COHESION AND UNIT WEIGHT SHALL BE PROVIDED IN THE SHOP DRAWINGS.

6.1.1 DESIGN:

THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY OTHERS. ON THE BASIS OF THIS INFORMATION, THE TENSAR CORPORATION IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY DESIGN INCLUDING FOUNDATION AND SLOPE STABILITY IS THE RESPONSIBILITY OF OTHERS.

6.2 FACTORS OF SAFETY:

6.2.1 INTERNAL STABILITY:
 MAXIMUM GEOGRID DESIGN STRENGTH = 0.19 ULT
 MINIMUM FACTOR OF SAFETY FOR GEOGRID PULLOUT = 1.5
 MINIMUM FACTOR OF SAFETY FOR SLIDING AT LOWEST GEOGRID = 1.5
 SOIL-GEOGRID INTERACTION COEFFICIENT = 0.8
 PERCENT COVERAGE OF GEOGRID:
 (ONE ROLL WIDTHS) = 89%
 (ONE-HALF ROLL WIDTH) = 44%

6.2.2 EXTERNAL STABILITY:

MINIMUM FACTOR OF SAFETY FOR SLIDING AT BASE = 1.5
 MINIMUM FACTOR OF SAFETY FOR OVERTURNING = 2.0
 MINIMUM FACTOR OF SAFETY FOR BEARING = 2.5

(EXTERNAL STABILITY, INCLUDING SLIDING, OVERTURNING, AND BEARING CAPACITY, IS THE RESPONSIBILITY OF OTHERS. TENSAR EARTH TECHNOLOGIES, INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR EXTERNAL STABILITY. (SEE NOTES 7.6 & 7.7))

6.2.3 GLOBAL STABILITY:

MINIMUM FACTOR OF SAFETY FOR GLOBAL STABILITY = 1.5

GLOBAL STABILITY IS THE RESPONSIBILITY OF OTHERS. TENSAR EARTH TECHNOLOGIES, INC. ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR GLOBAL STABILITY. (SEE NOTES 7.6 & 7.7)

6.3 SURCHARGE LOADING = 250 psf

6.4 HYDROSTATIC DESIGN = NONE

6.5 SEISMIC DESIGN = NONE

6.6 GEOGRID LONG TERM ALLOWABLE DESIGN STRENGTH (LTADS): GEOGRID LTADS SHALL BE 19 PERCENT OF ULTIMATE GEOGRID STRENGTH AS DETERMINED IN ACCORDANCE WITH GEOSYNTHETIC RESEARCH INSTITUTE, (GRI), TEST METHOD GGI-87, SINGLE RIB TEST.

7.0 SPECIAL PROVISIONS

7.1 WALL ELEVATION VIEWS AND LOCATIONS AND GEOMETRY OF EXISTING STRUCTURES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

7.2 TENSAR EARTH TECHNOLOGIES, INC. ASSUMES NO LIABILITY FOR INTERPRETATION OR VERIFICATION OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL DESIGN PARAMETERS AND INTERPRETATION OF SUBSURFACE GROUNDWATER CONDITIONS.

7.3 THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING THAT THE ACTUAL SITE CONDITIONS ARE AS DESCRIBED IN SECTION 6.0 PRIOR TO AND DURING CONSTRUCTION. THE ENGINEER SHALL BE ON-SITE TO ASSURE THE PROVISIONS IN THE CONSTRUCTION NOTES ARE FOLLOWED.

7.4 THE SOIL DESIGN PARAMETERS STATED IN SECTION 6.0 SHALL BE VERIFIED BY THE CONSTRUCTOR. WRITTEN VERIFICATION OF DESIGN PARAMETERS SHALL BE SUBMITTED TO TENSAR EARTH TECHNOLOGIES, INC. PRIOR TO COMMENCING WITH CONSTRUCTION.

7.5 ANY REVISIONS TO DESIGN PARAMETERS STATED IN SECTION 6.0 OR STRUCTURE GEOMETRY SHALL REQUIRE DESIGN MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION

7.6 PER THE MSE RETAINING WALL GENERAL NOTES, TENSAR EARTH TECHNOLOGIES, INC HAS CONSIDER INTERNAL STABILITY OF THE RETAINING WALLS ONLY. EXTERNAL AND GLOBAL STABILITY OF THE WALL IS THE RESPONSIBILITY OF OTHERS.

7.7 DIFFERENTIAL SETTLEMENT AND ITS EFFECTS ON THE TENSAR RETAINING WALL SYSTEM SHALL BE THE RESPONSIBILITY OF OTHERS.

THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF TENSAR PRODUCTS (GEOGRIDS, DRAINAGE COMPOSITES AND EROSION MEDIA), WHICH ARE PROPRIETARY TO THE TENSAR CORPORATION 1210 CITIZENS PARKWAY, MORROW GA. 30260. ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS WILL INVALIDATE THIS DESIGN.

THIS DRAWING, DESIGN NOTES AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY TENSAR EARTH TECHNOLOGIES, INC. FOR PRELIMINARY DESIGN PURPOSES AND SHALL NOT BE USED FOR FINAL DESIGN OR CONSTRUCTION.

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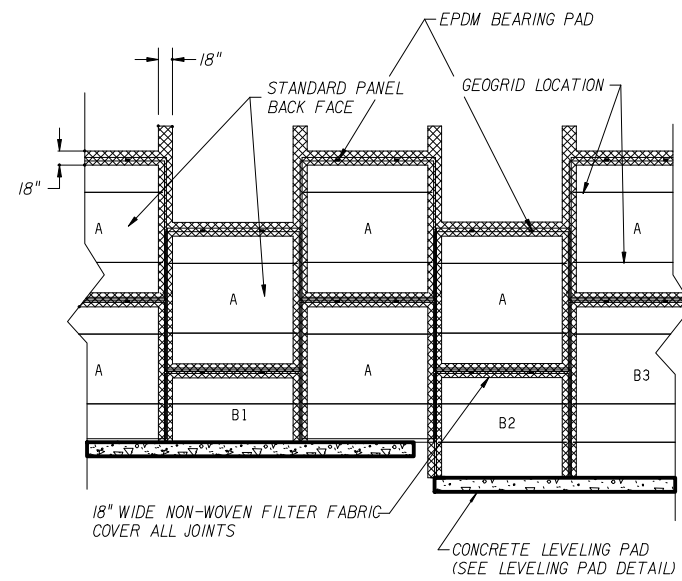
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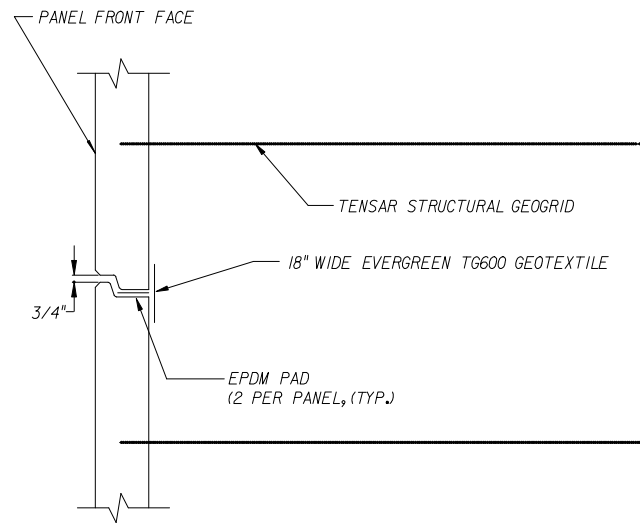
THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS AS NOTED IN THESE PLANS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Names	Dates	Approved By <i>[Signature]</i>		
Designed By		State Structures Design Engineer		
Drawn By	JMS	8/14/98	Revision	Sheet No. Index No.
Checked By			00	1 of 17 5025

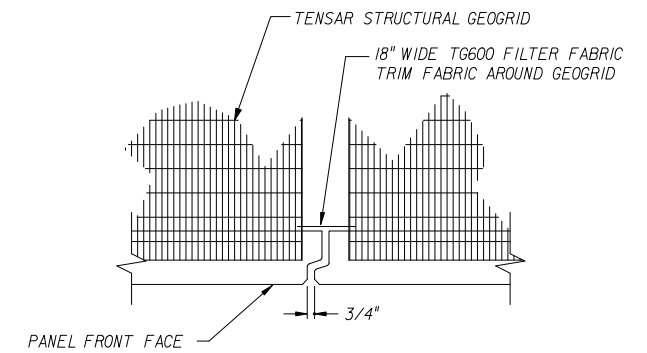
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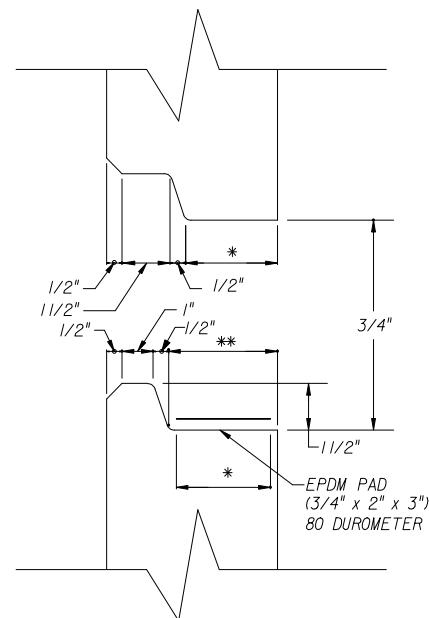
TYPICAL FILTER FABRIC COVERAGE DETAIL
NOT TO SCALE



HORIZONTAL JOINT DETAIL
NOT TO SCALE



VERTICAL JOINT DETAIL



PANEL JOINT DETAIL
NOT TO SCALE

- * - 3" FOR MODERATELY & SLIGHTLY AGGRESSIVE ENVIRONMENT
- 4 1/2" FOR EXTREMELY AGGRESSIVE ENVIRONMENT
- ** - 3 1/2" FOR MODERATELY & SLIGHTLY AGGRESSIVE ENVIRONMENT
- 4 3/4" FOR EXTREMELY AGGRESSIVE ENVIRONMENT

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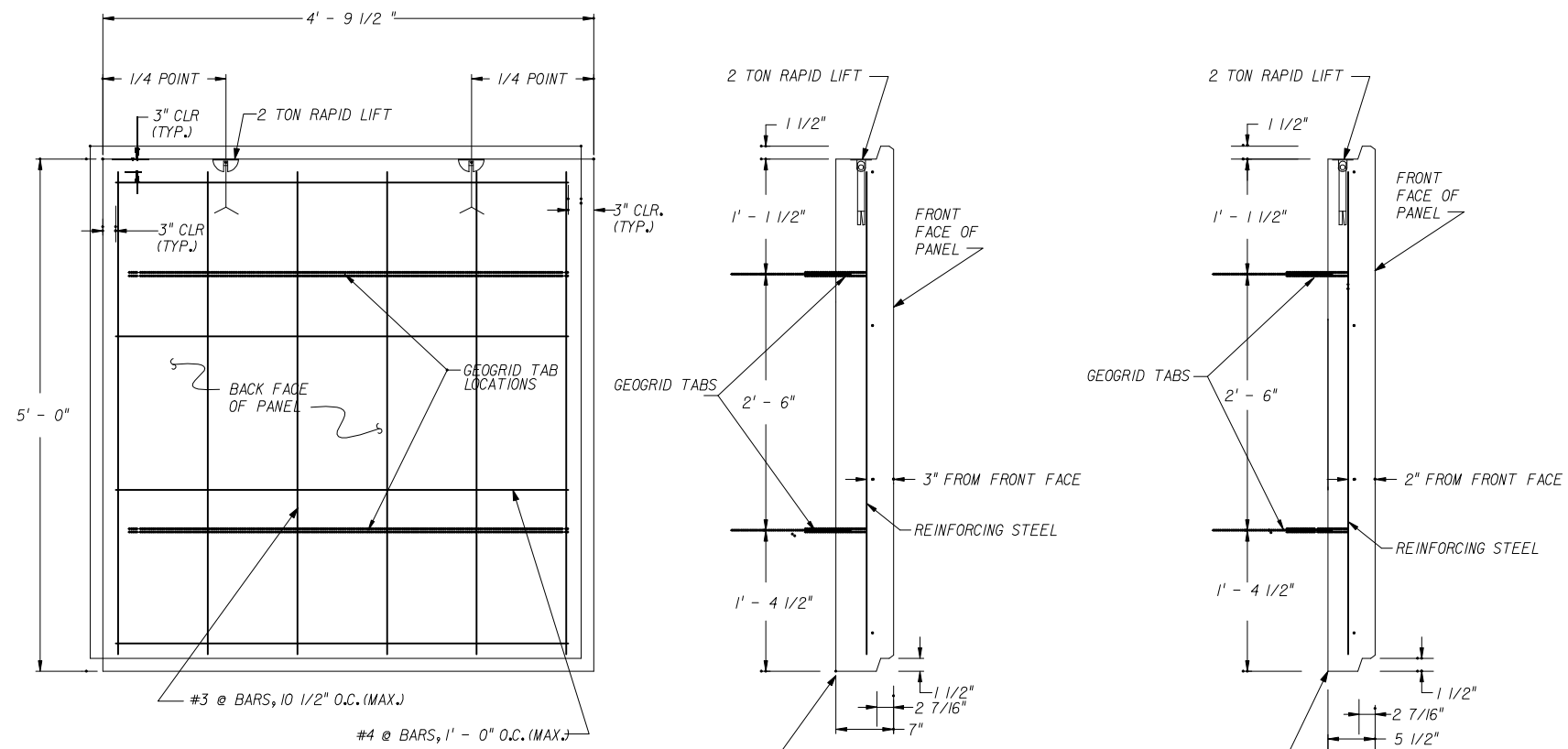
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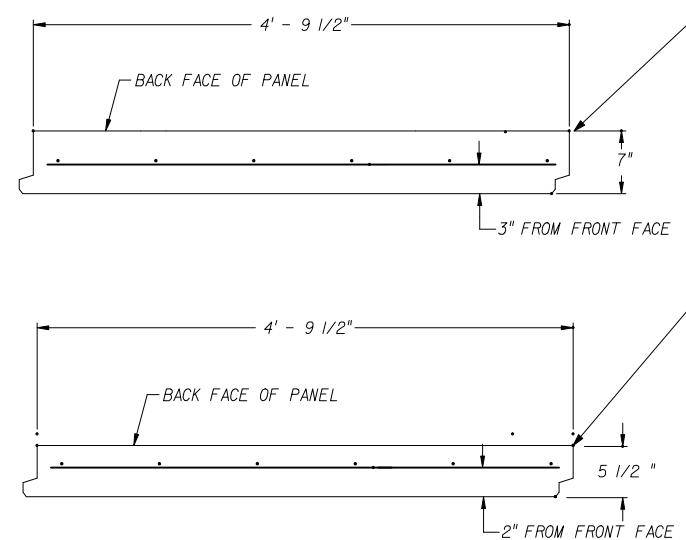
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PANEL DETAIL FOR
EXTREMELY AGGRESSIVE
ENVIRONMENT

PANEL DETAIL FOR
MODERATELY AND SLIGHTLY
AGGRESSIVE ENVIRONMENT

REINFORCING STEEL REQUIREMENTS
HORIZONTAL: 4 - #4 BARS @ 1' - 6" O.C.(MAX.)
VERTICAL: 6 - #3 BARS @ 10 1/2" O.C.(MAX.)
-OR-
4X4 - W4.0xW4.0 WELDED WIRE MESH



TYPICAL PANEL DETAILS - STANDARD A PANEL

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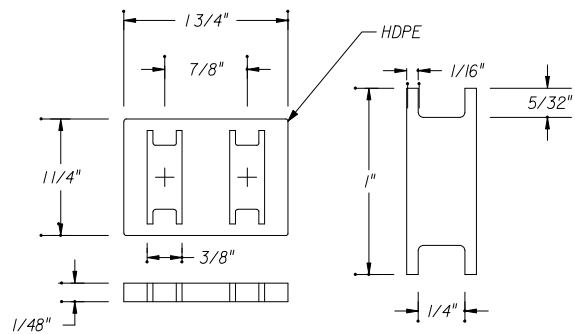
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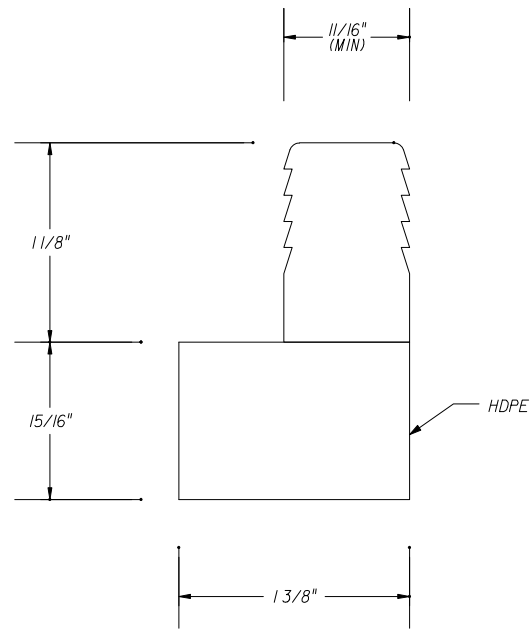


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RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
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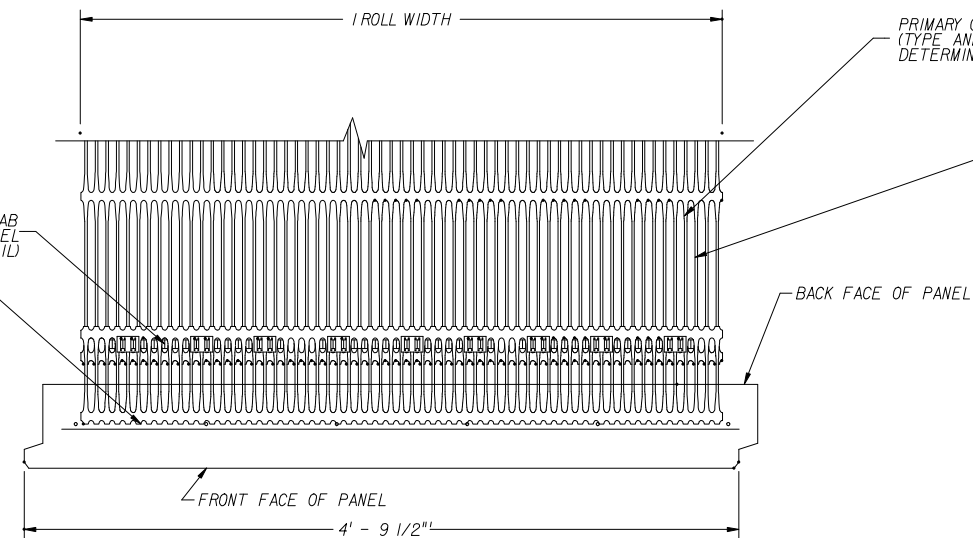
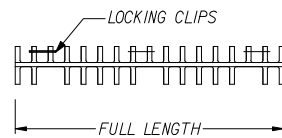
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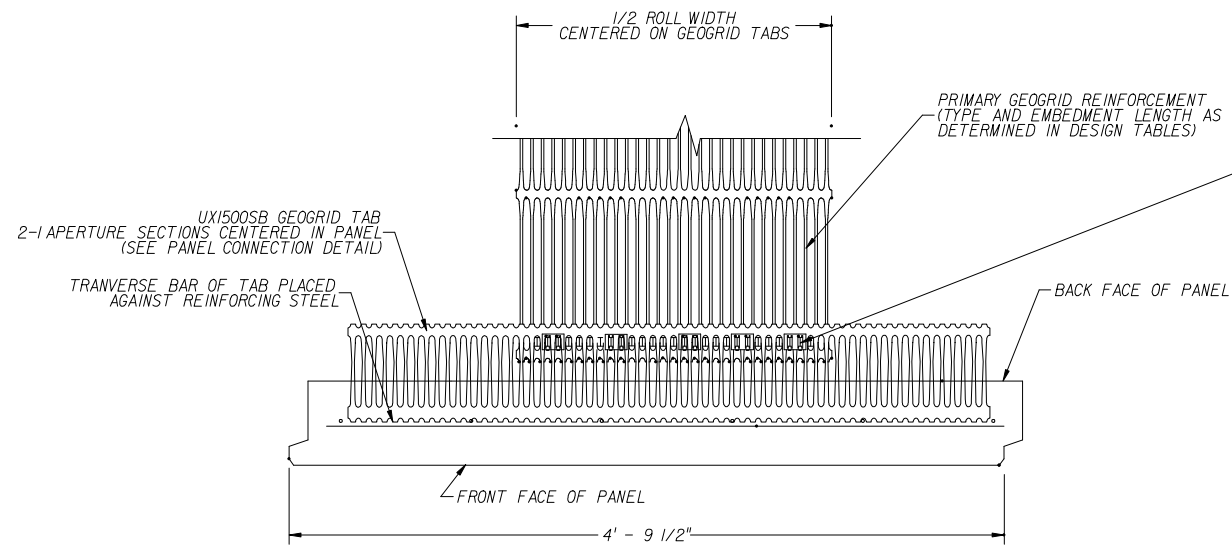
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NOT TO SCALE



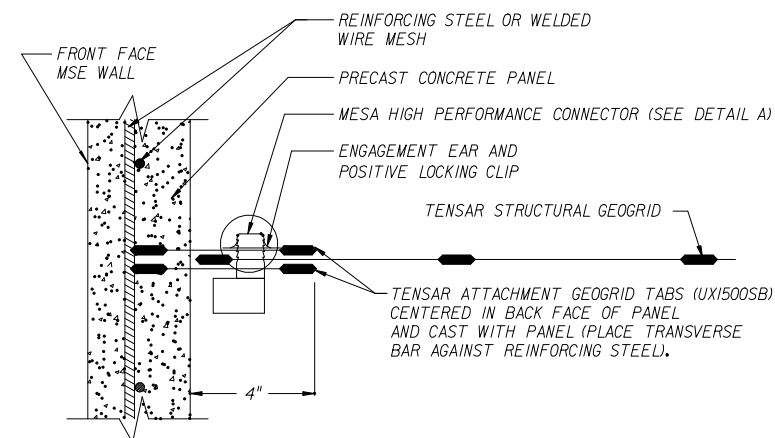
MESA HIGH PERFORMANCE CONNECTOR
NOT TO SCALE



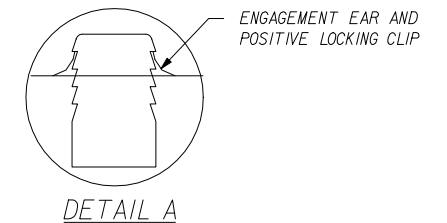
CONNECTION DETAIL PLAN VIEW (89% COVERAGE)
MAXIMUM COVERAGE
NOT TO SCALE



CONNECTION DETAIL PLAN VIEW (44% COVERAGE)
NOT TO SCALE



PANEL CONNECTION DETAIL
NOT TO SCALE



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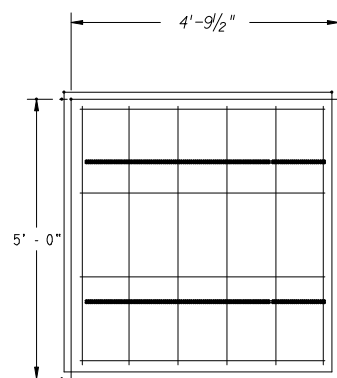
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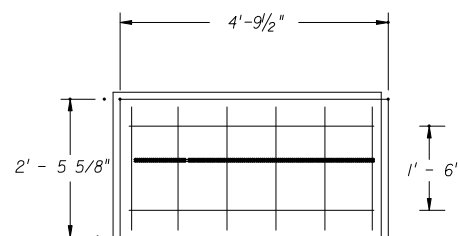


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RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Names	Dates	Approved By <i>[Signature]</i>		
Designed By		State Structures Design Engineer		
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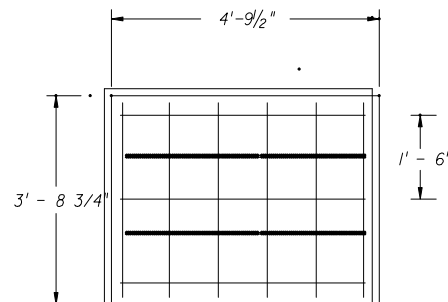
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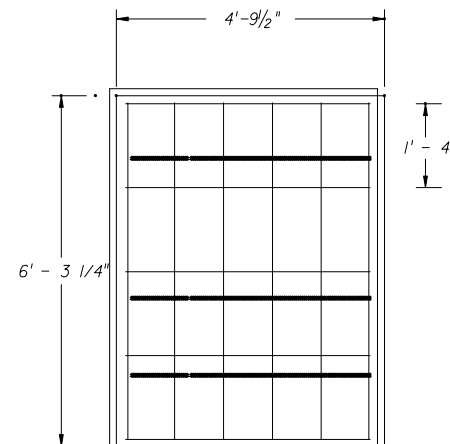
STANDARD A PANEL



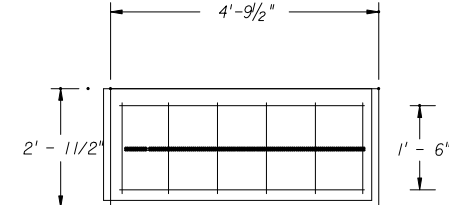
STANDARD B1 PANEL



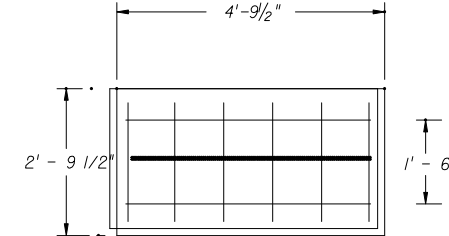
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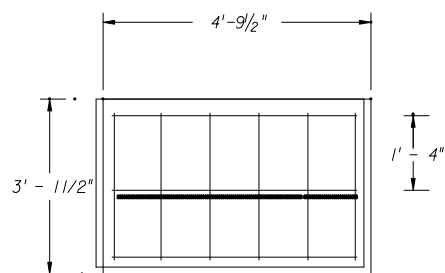
STANDARD B3 PANEL



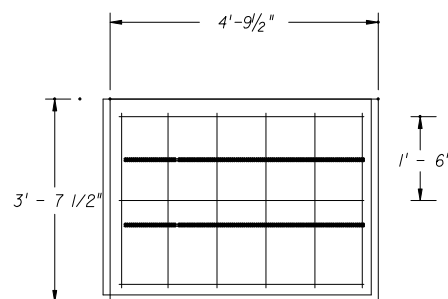
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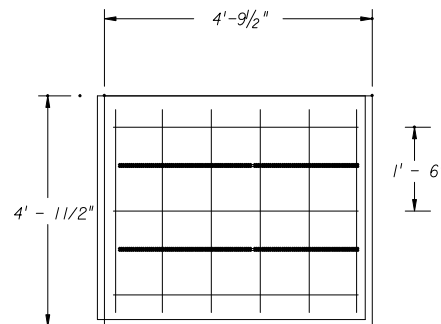
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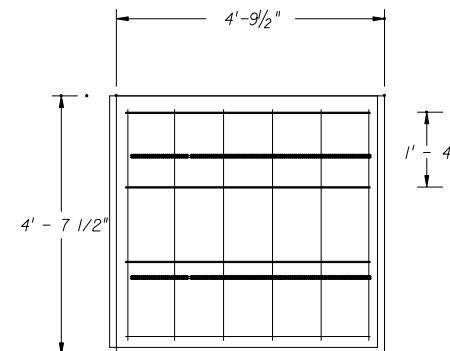
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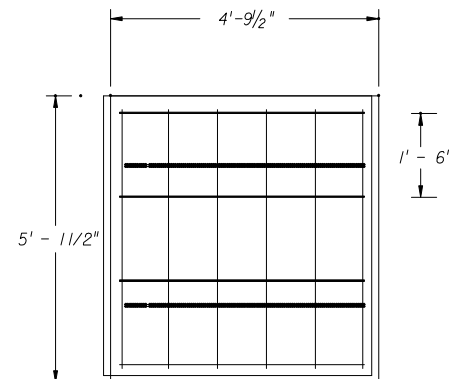
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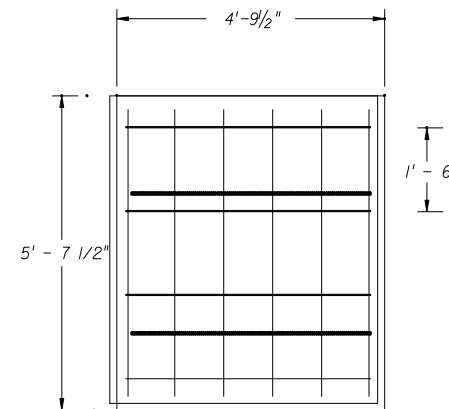
STANDARD T48 PANEL



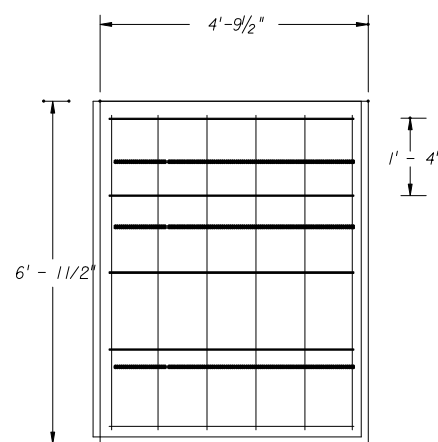
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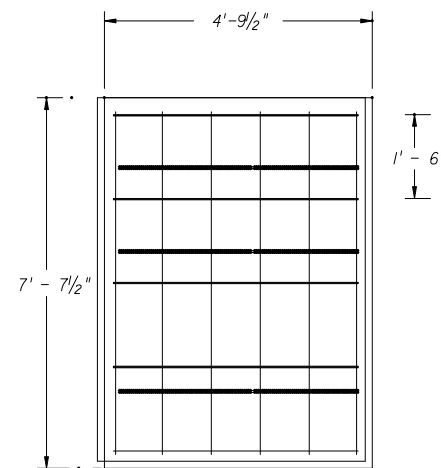
STANDARD T60 PANEL



STANDARD T66 PANEL



STANDARD T72 PANEL

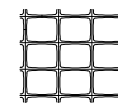


STANDARD T78 PANEL

ALL PANELS ARE SHOWN BACK FACE VIEW

STANDARD STEEL LAYOUT
 REINFORCING STEEL REQUIREMENTS
 HORIZONTAL: #4 BARS (60 KSI) @ 1' - 6" O.C. (MAX.)
 VERTICAL: #3 BARS (60 KSI) @ 10 1/2" O.C. (MAX.)
 OR
 STANDARD WWF LAYOUT
 REINFORCING STEEL REQUIREMENTS
 4X4-W4.0XW4.0 WELDED WIRE MESH
 FABRICATION PER ASTM A-185

— GEOGRID TAB LOCATIONS



THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS.

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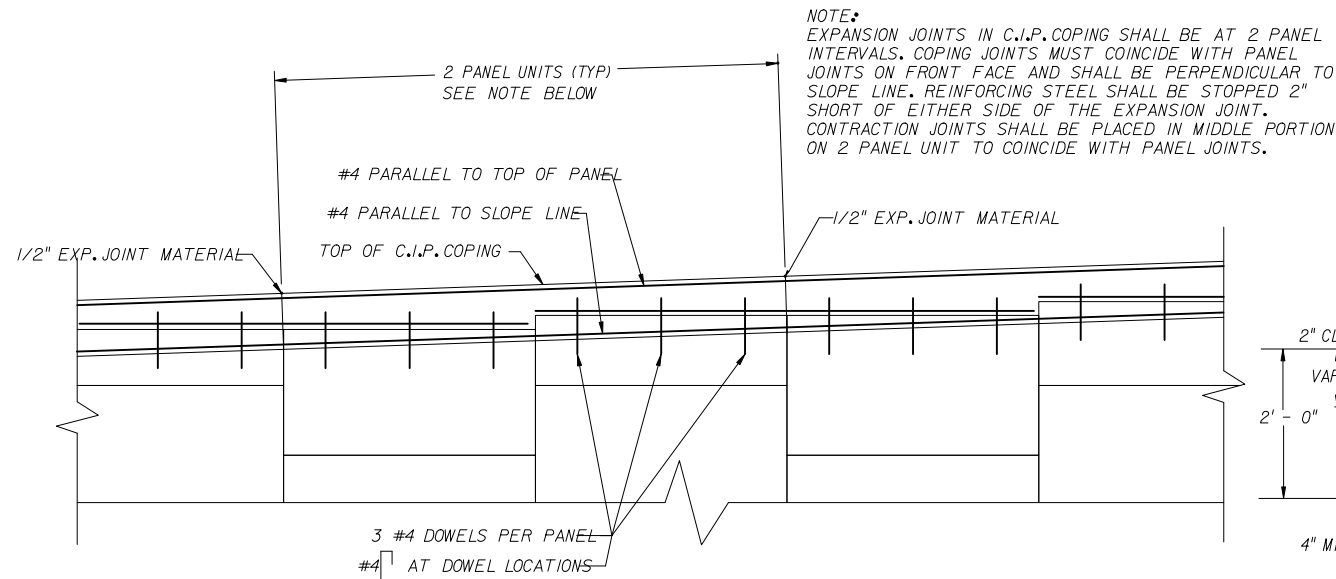
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RETAINING WALL SYSTEM
 TENSAR EARTH TECHNOLOGIES
 MSE RETAINING WALL

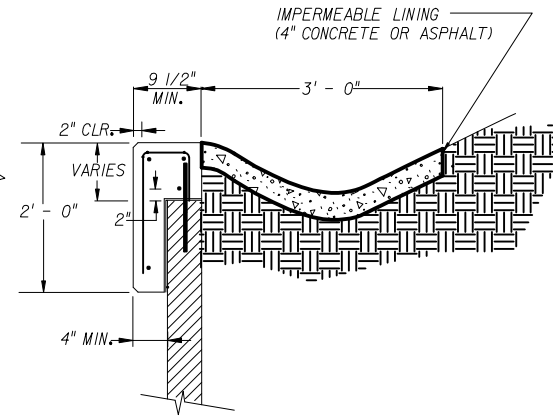
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 *****SYTIME*****

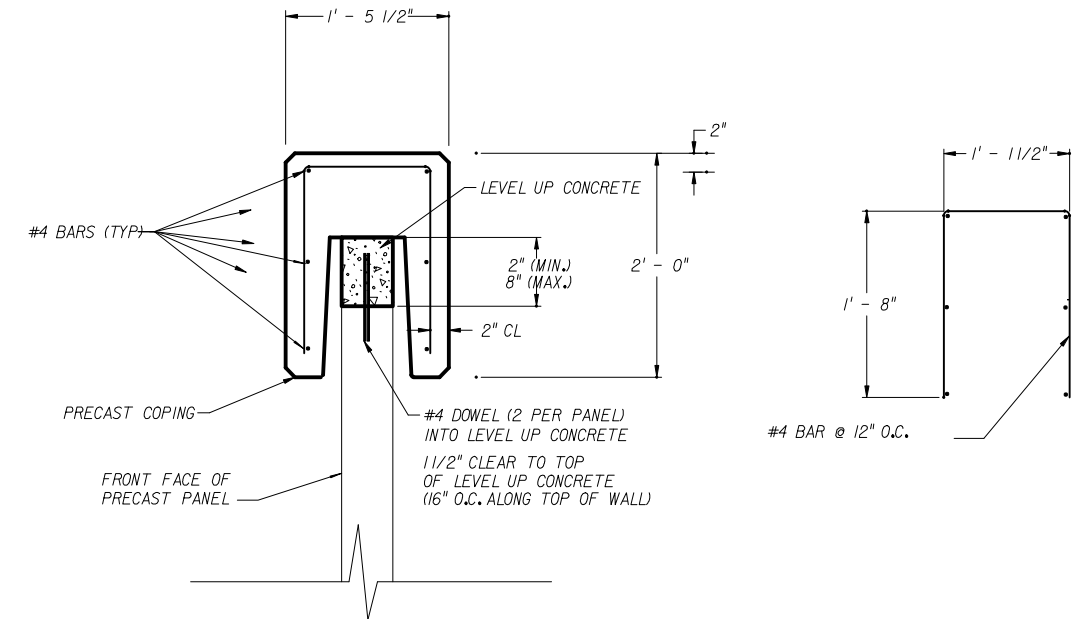


C.I.P. COPING PARTIAL ELEVATION VIEW
NOT TO SCALE

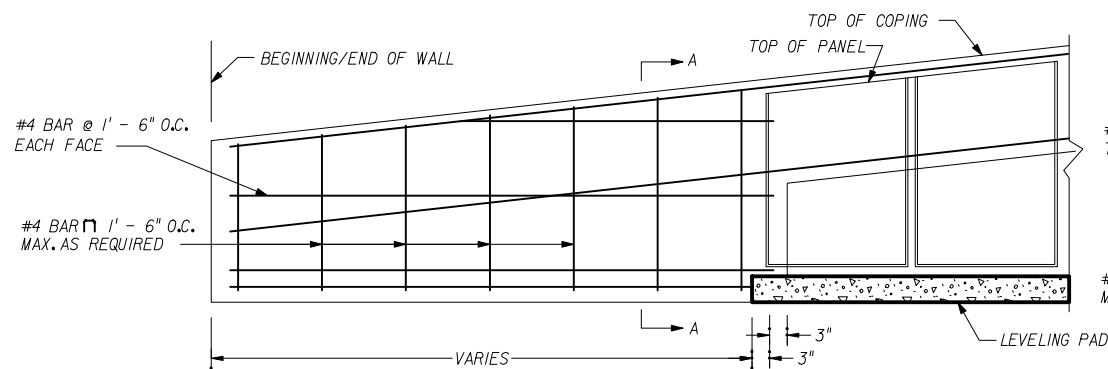
NOTE:
EXPANSION JOINTS IN C.I.P. COPING SHALL BE AT 2 PANEL INTERVALS. COPING JOINTS MUST COINCIDE WITH PANEL JOINTS ON FRONT FACE AND SHALL BE PERPENDICULAR TO SLOPE LINE. REINFORCING STEEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE EXPANSION JOINT. CONTRACTION JOINTS SHALL BE PLACED IN MIDDLE PORTION ON 2 PANEL UNIT TO COINCIDE WITH PANEL JOINTS.



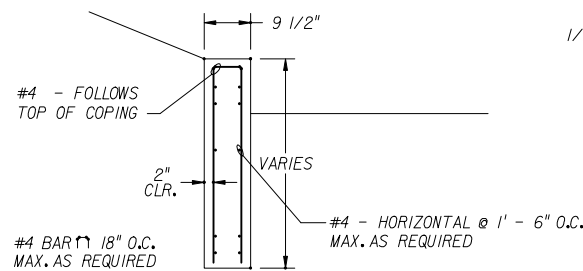
C.I.P. COPING WITH SWALE
NOT TO SCALE



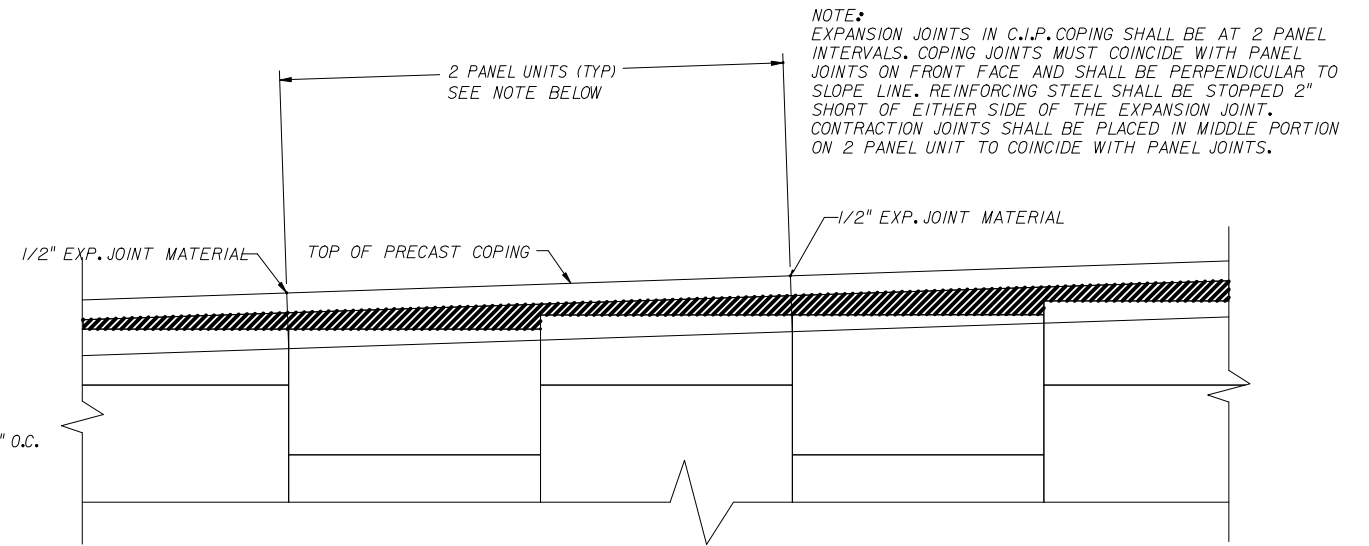
PRECAST COPING SECTION
NOT TO SCALE



COPING ENCLOSURE DETAIL
NOT TO SCALE



SECTION A-A



PRECAST COPING PARTIAL ELEVATION VIEW
NOT TO SCALE

NOTE:
EXPANSION JOINTS IN C.I.P. COPING SHALL BE AT 2 PANEL INTERVALS. COPING JOINTS MUST COINCIDE WITH PANEL JOINTS ON FRONT FACE AND SHALL BE PERPENDICULAR TO SLOPE LINE. REINFORCING STEEL SHALL BE STOPPED 2" SHORT OF EITHER SIDE OF THE EXPANSION JOINT. CONTRACTION JOINTS SHALL BE PLACED IN MIDDLE PORTION ON 2 PANEL UNIT TO COINCIDE WITH PANEL JOINTS.

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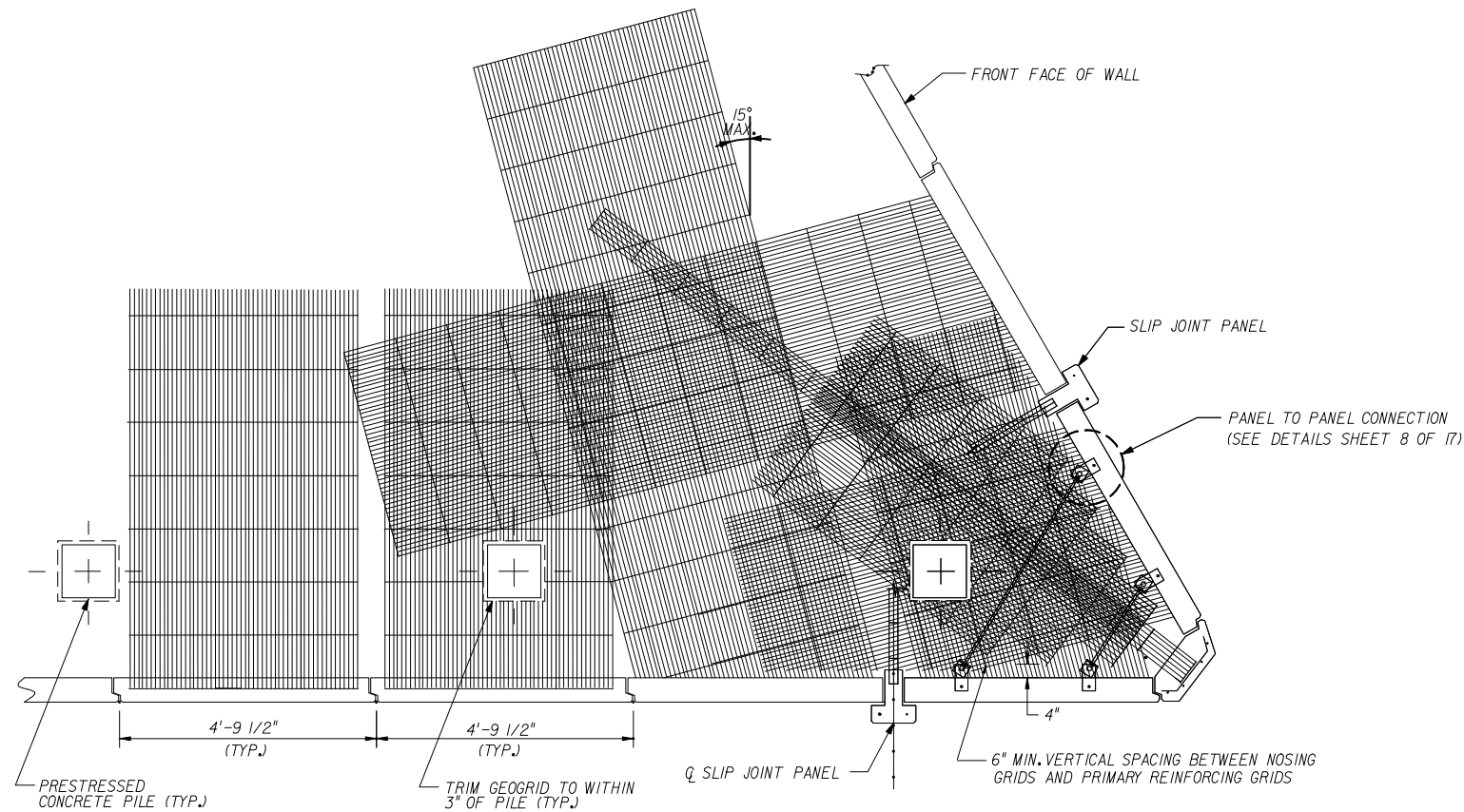
THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

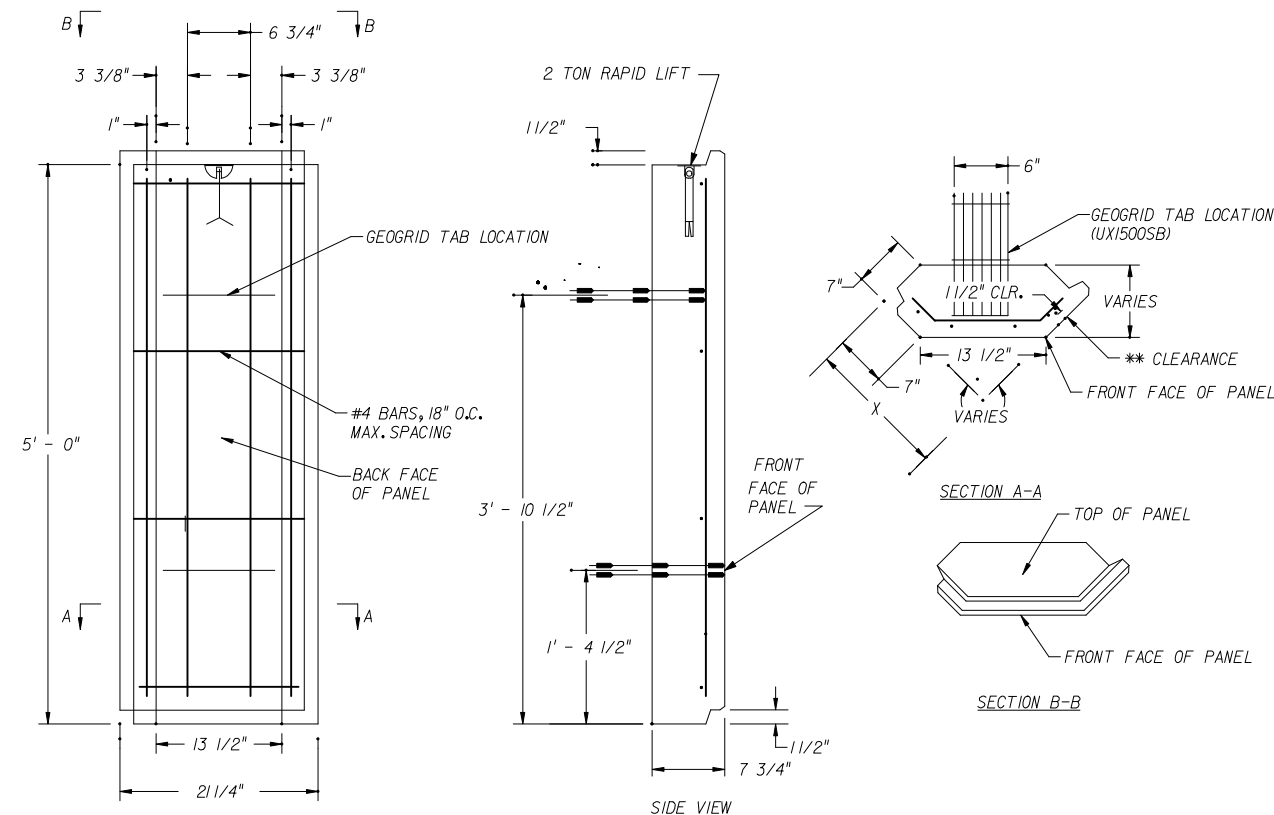
RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGIES
MSE RETAINING WALL

Names	Dates	Approved By		
Designed By		 State Structures Design Engineer		
Drawn By	JMS 8/14/98			
Checked By				
		Revision	Sheet No.	Index No.
		00	6 of 17	5025

*****DGNSPECIFICATION*****
*****SYTIME*****

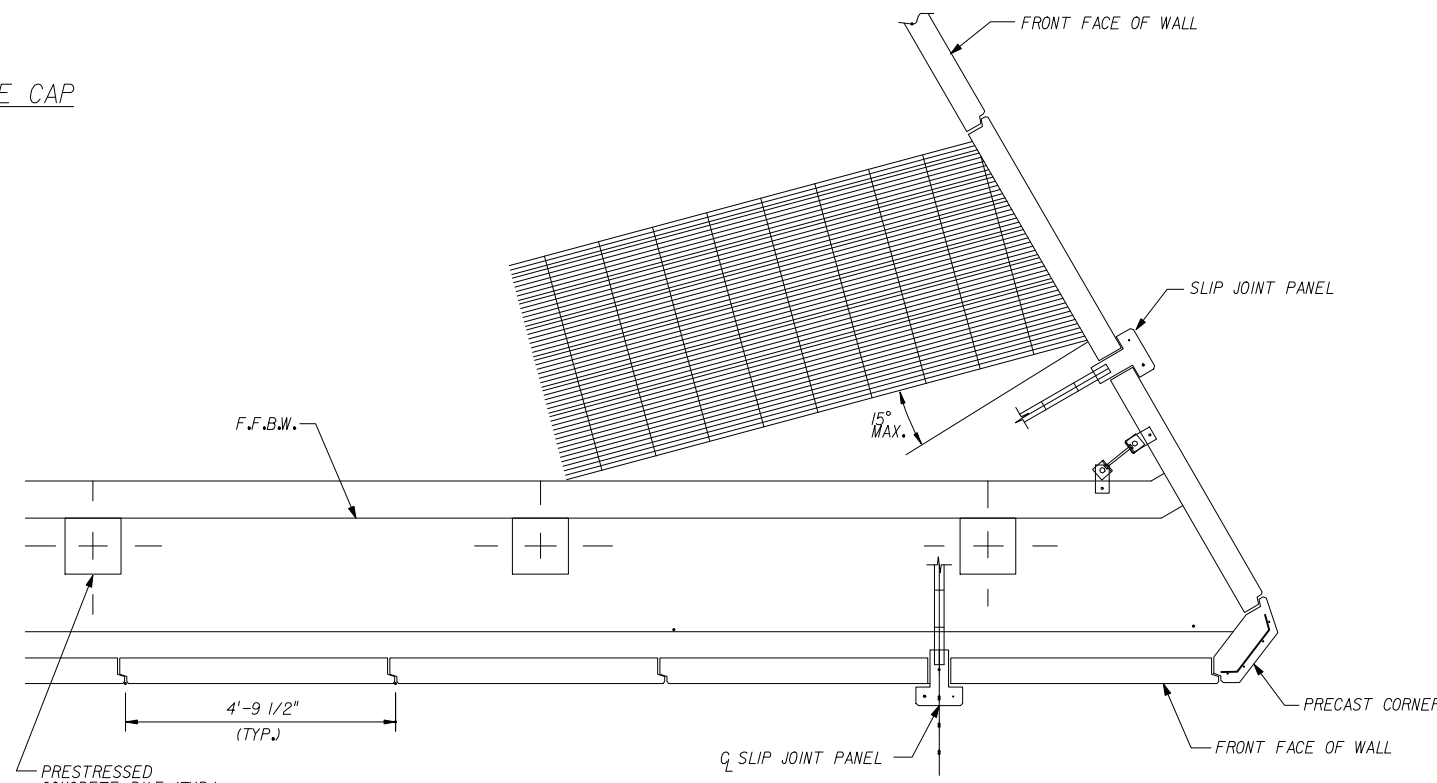


LESS THAN 75° ACUTE CORNER - SKEWED GEOGRID UNDER PILE CAP
(SEE DETAIL BELOW FOR BIN REINFORCEMENT)



ACUTE CORNER ELEMENT DETAIL

* SEE SHEET 3 OF 17 FOR PANEL THICKNESS
** VARIES
3" FOR MARINE ENVIRONMENTS
2" FOR MODERATELY OR SLIGHTLY AGGRESSIVE ENVIRONMENTS



EXAMPLE ACUTE CORNER - SKEWED GEOGRID AT ABUTMENT LEVEL

NOT TO SCALE

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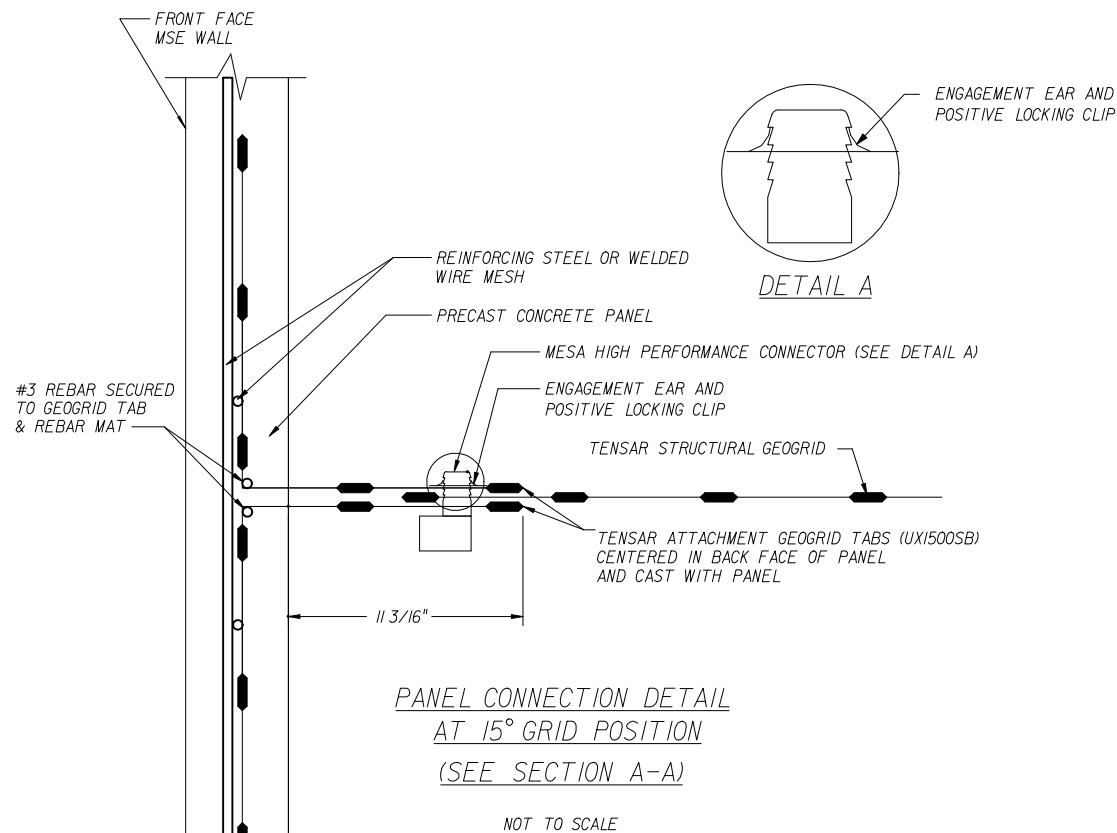
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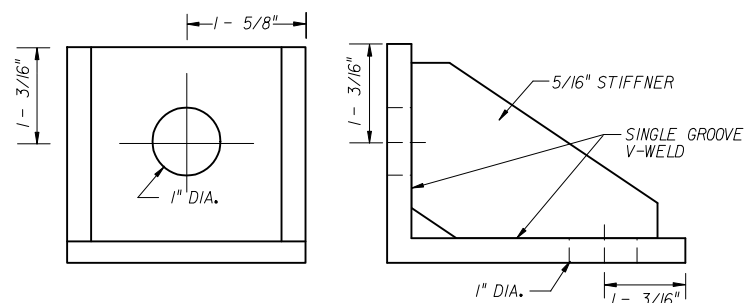
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RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Names	Dates	Approved By <i>[Signature]</i>		
Designed By		State Structures Design Engineer		
Drawn By	JWS 8/14/98	Revision	Sheet No.	Index No.
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*****SYTIME*****



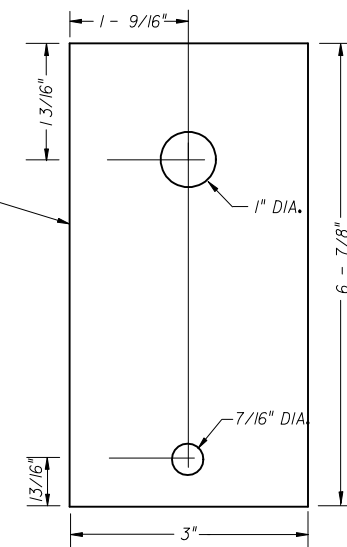
PANEL CONNECTION DETAIL AT 15° GRID POSITION (SEE SECTION A-A)

NOT TO SCALE

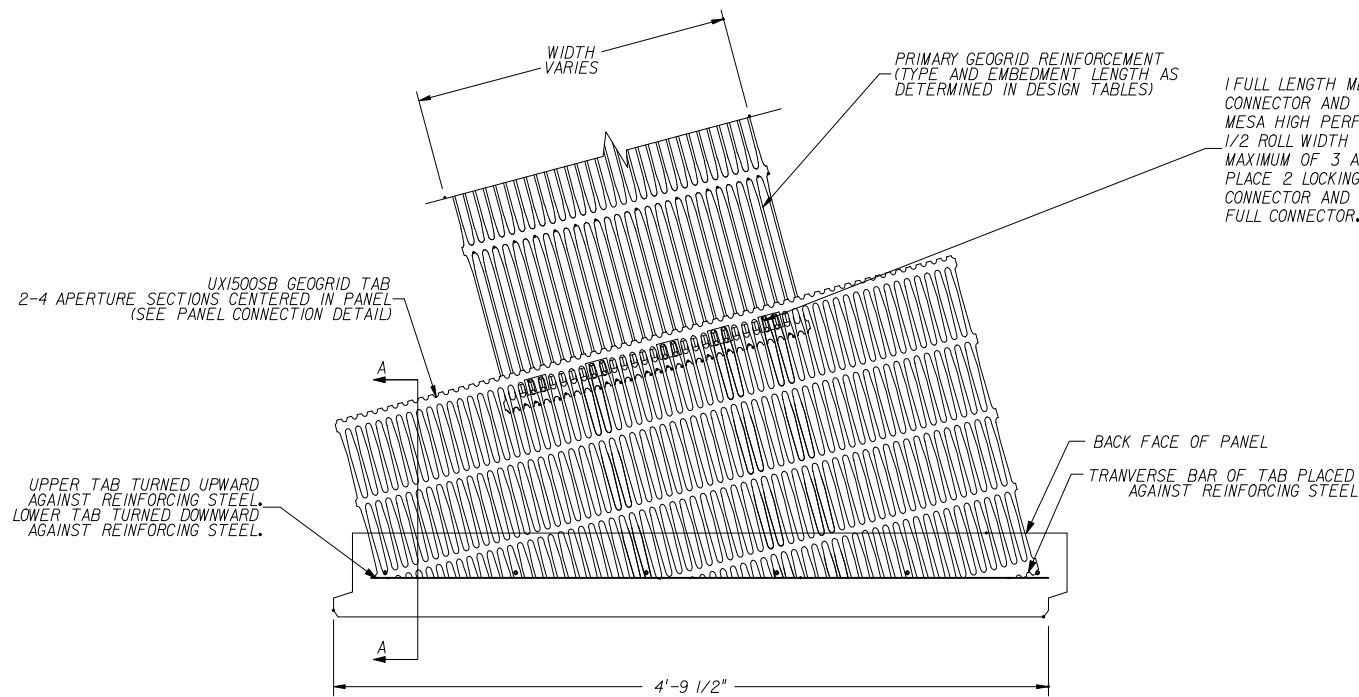


ANGLE: 3" X 4" X 5/16", HOT DIP GALVANIZED
3" X 4" X 1/4", 316 L GRADE STAINLESS STEEL

CONNECTION BOX

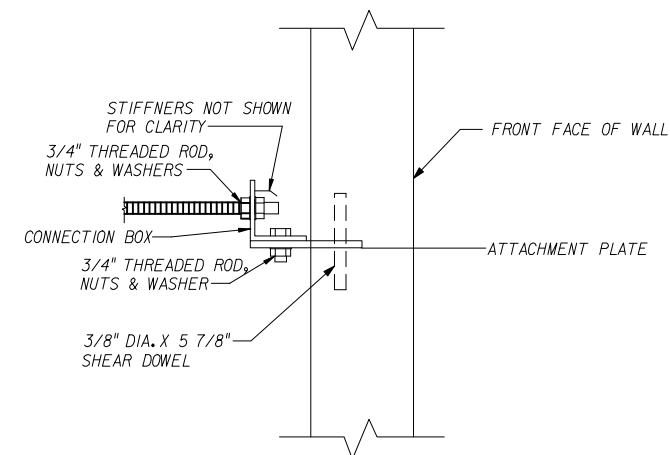


ATTACHMENT PLATE



CONNECTION DETAIL PLAN VIEW AT 15° GRID POSITION

NOT TO SCALE



PANEL TO PANEL ATTACHMENT

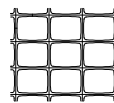
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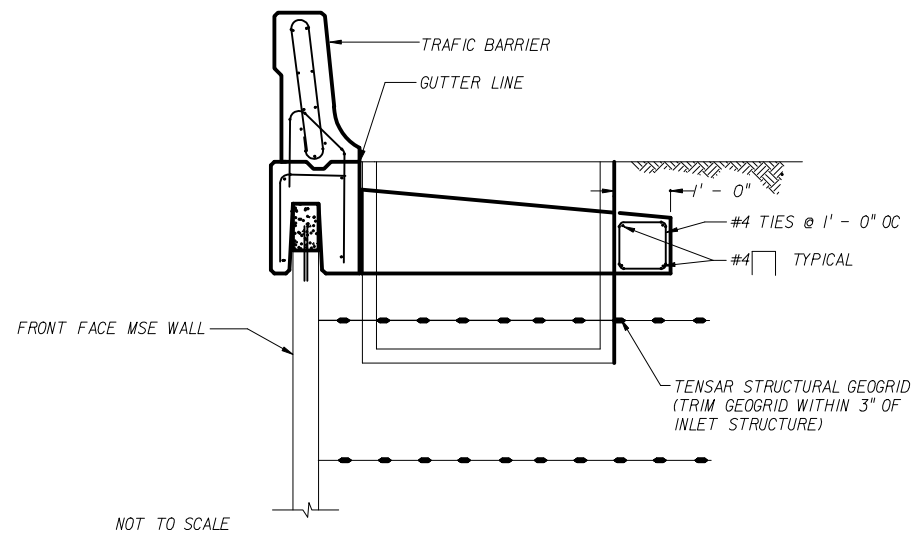


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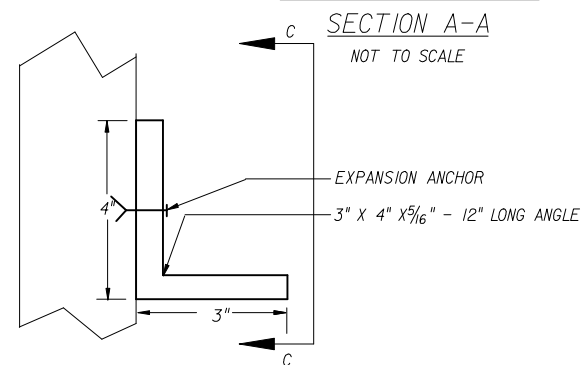
1. ALL PARTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION FOR MODERATELY OR SLIGHTLY AGGRESSIVE ENVIRONMENTS.
2. ALL PARTS SHALL BE FABRICATED FROM 316 L GRADE STAINLESS STEEL FOR USE IN A SALT WATER

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Drawn By	JWS 8/14/98	Revision	Sheet No.	Index No.
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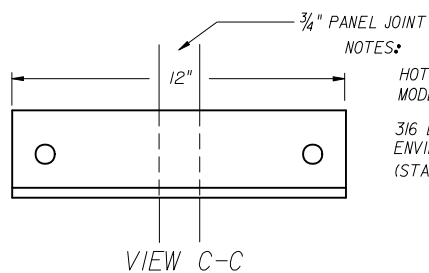
*****DGN SPECIFICATION*****
*****SYTIME*****



CONNECTION DETAILS



SECTION A-A
NOT TO SCALE

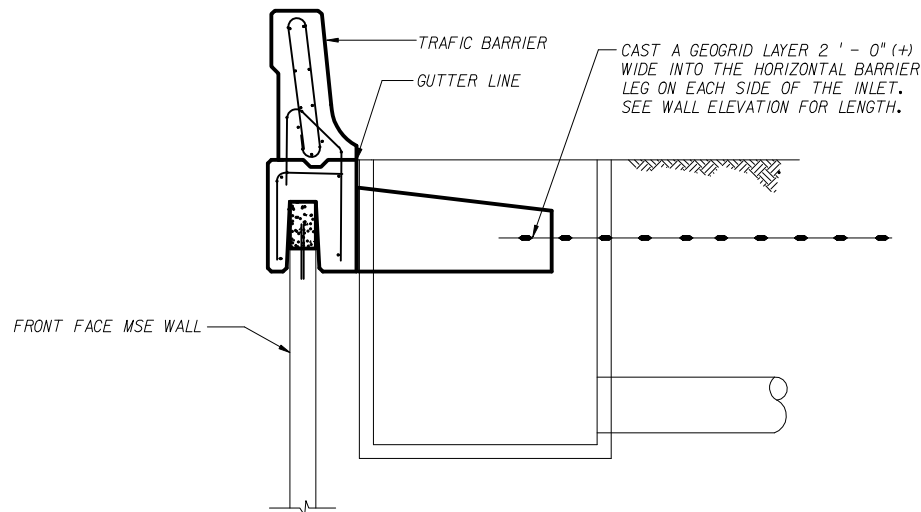


CENTER BRACKET OVER JOINT DETAIL

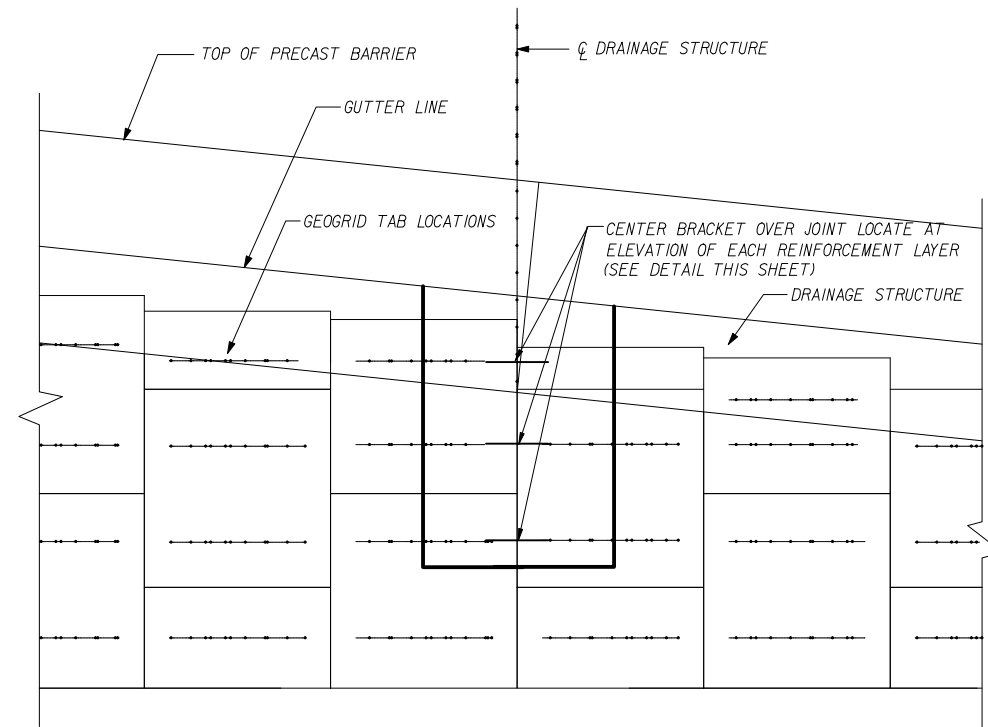
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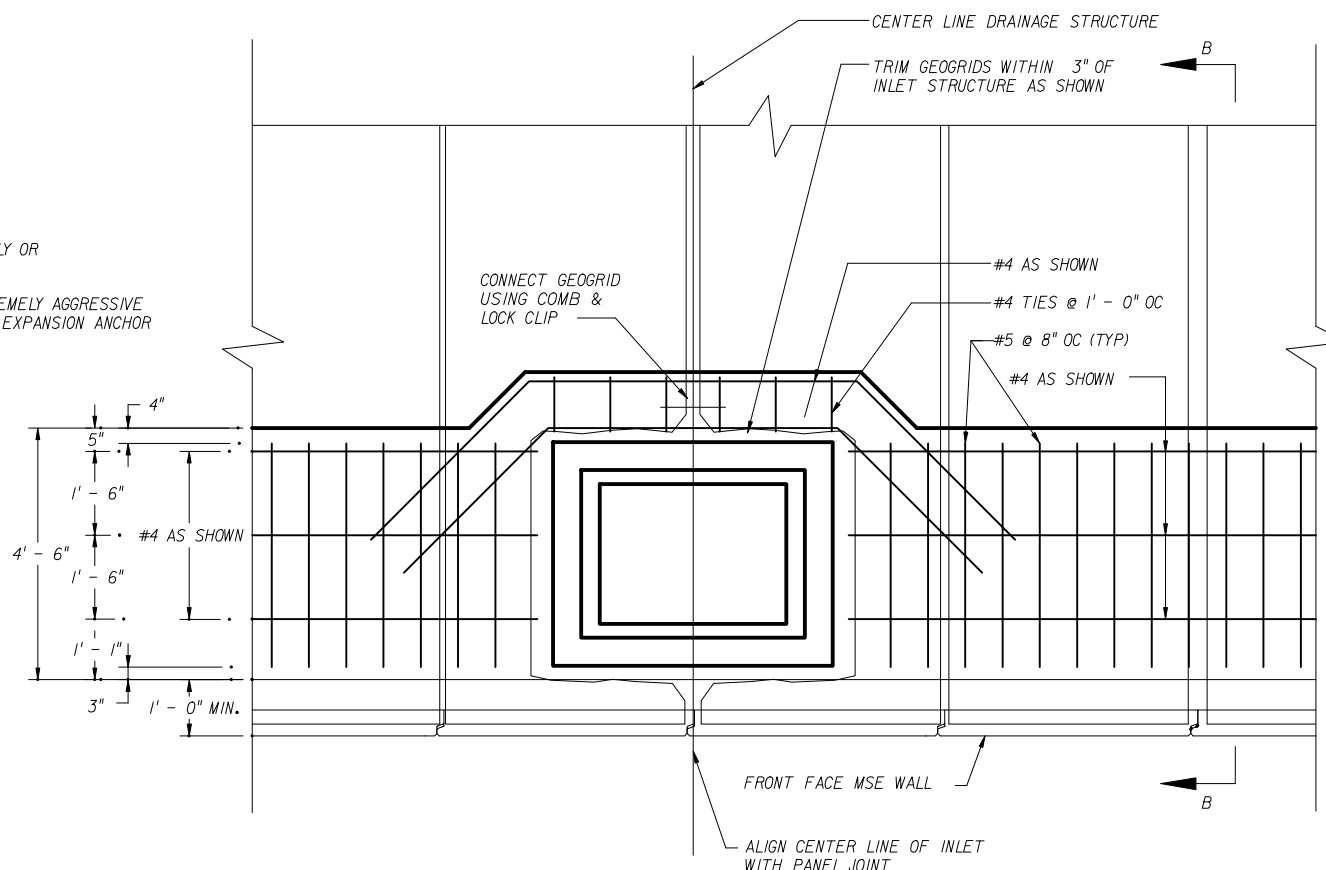
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DETAIL OF TENSAR PANELS @ INLETS
SECTION B-B
NOT TO SCALE

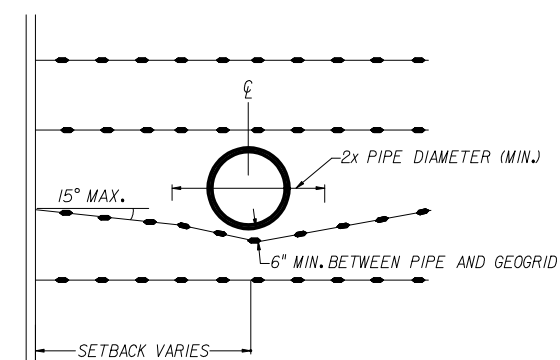


PARTIAL ELEVATION - WALL @ DRAINAGE INLET



PARTIAL PLAN - WALL @ DRAINAGE INLET

NOT TO SCALE



TYPICAL OBSTRUCTION AVOIDANCE DETAIL
NOT TO SCALE

THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS.

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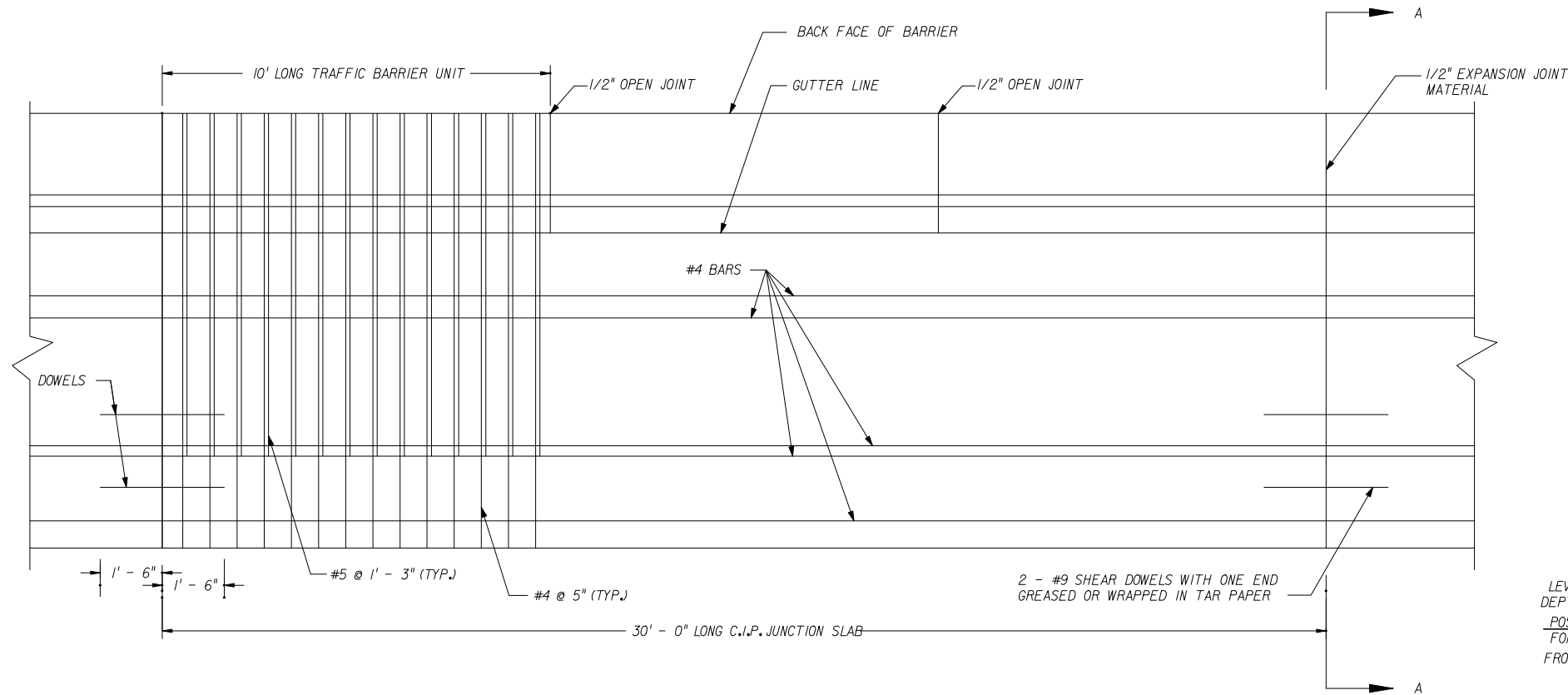


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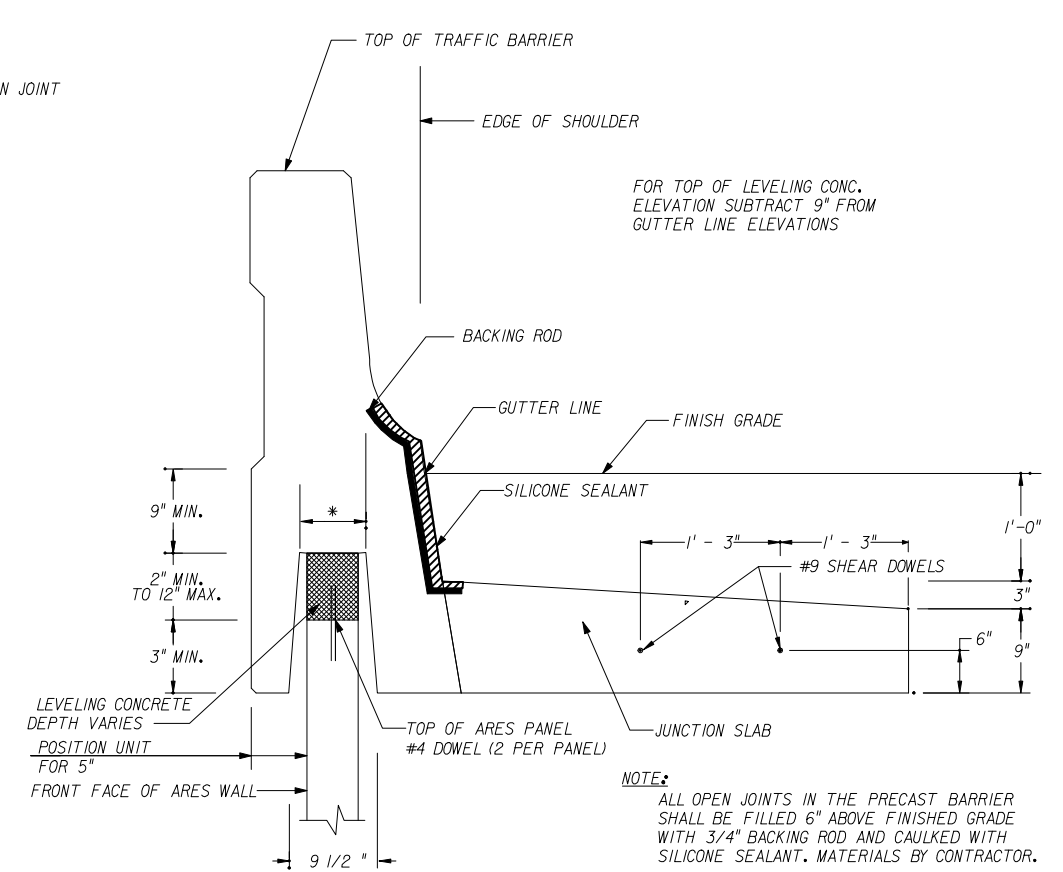
RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGIES
MSE RETAINING WALL

Names	Dates	Approved By		
Designed By		 State Structures Design Engineer		
Drawn By	JMS 8/14/98			
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		00	9 of 17	5025

*****DGNSPECIFICATION*****
*****SYTIME*****



PLAN VIEW
 PRECAST TRAFFIC BARRIER
 NOT TO SCALE

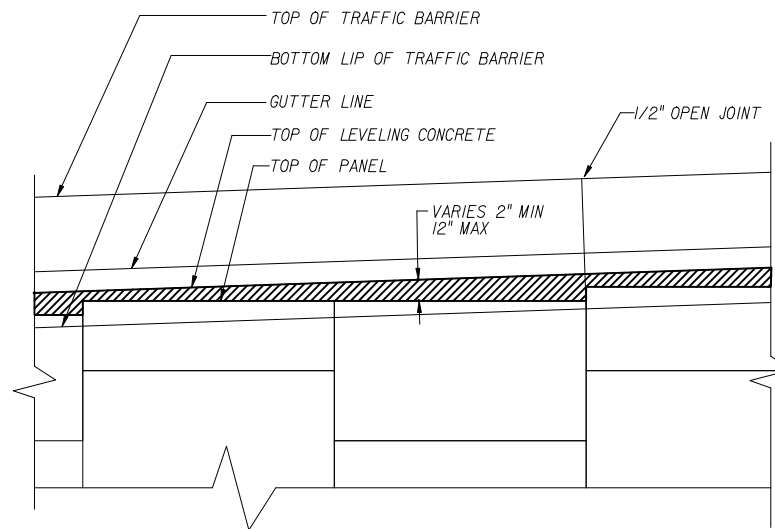


SECTION A-A AT APPROACH SLAB
 NOT TO SCALE

FOR TOP OF LEVELING CONC.
 ELEVATION SUBTRACT 9" FROM
 GUTTER LINE ELEVATIONS

NOTE:
 ALL OPEN JOINTS IN THE PRECAST BARRIER
 SHALL BE FILLED 6" ABOVE FINISHED GRADE
 WITH 3/4" BACKING ROD AND CAULKED WITH
 SILICONE SEALANT. MATERIALS BY CONTRACTOR.

* 7 7/8" FOR PANELS IN SLIGHTLY TO MODERATELY
 AGGRESSIVE ENVIRONMENTS
 8 5/8" FOR SALT WATER ENVIRONMENTS



PRECAST TRAFFIC BARRIER PARTIAL ELEVATION VIEW
 NOT TO SCALE

THIS SYSTEM WALL MAY BE USED IN ALL ENVIRONMENTS.


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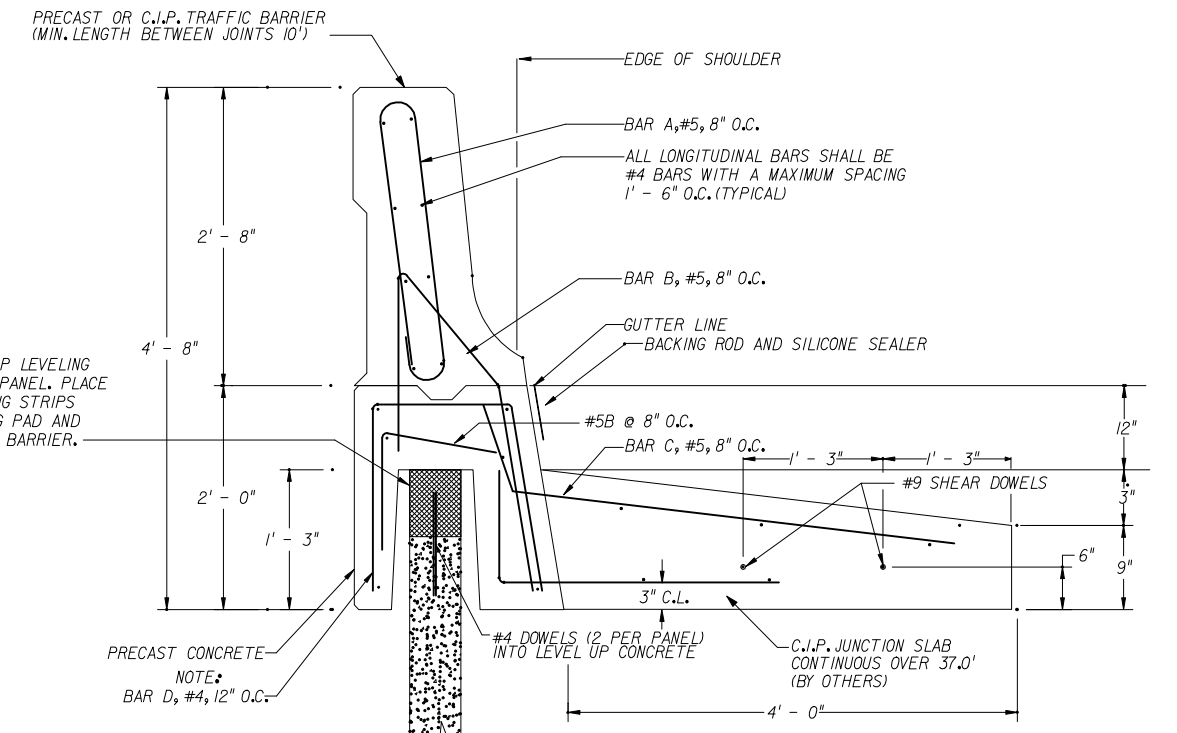
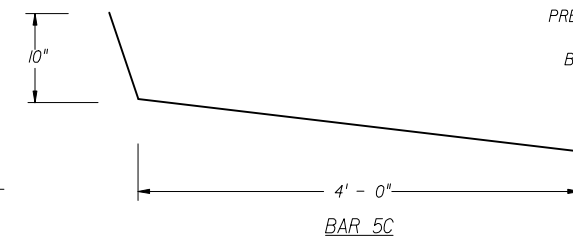
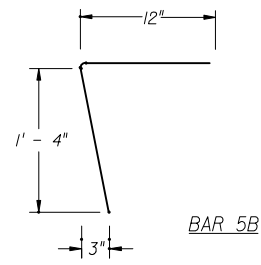
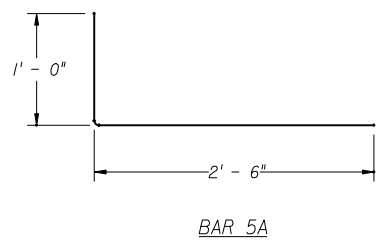
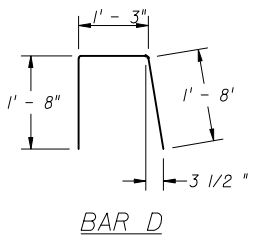
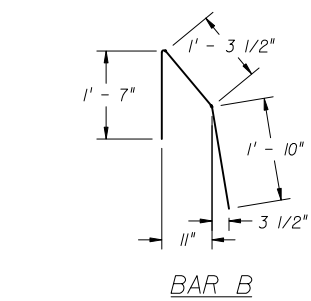
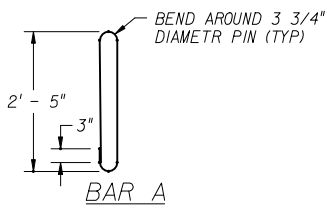
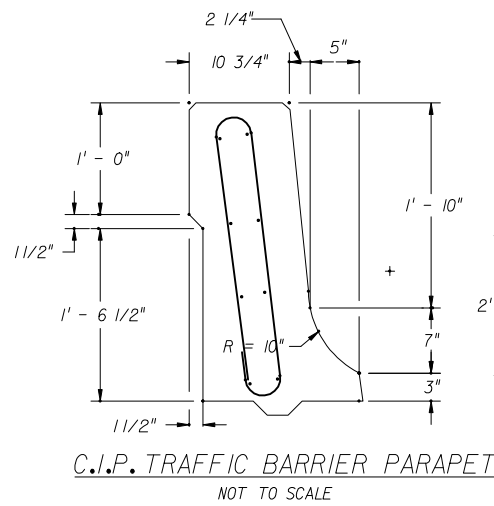
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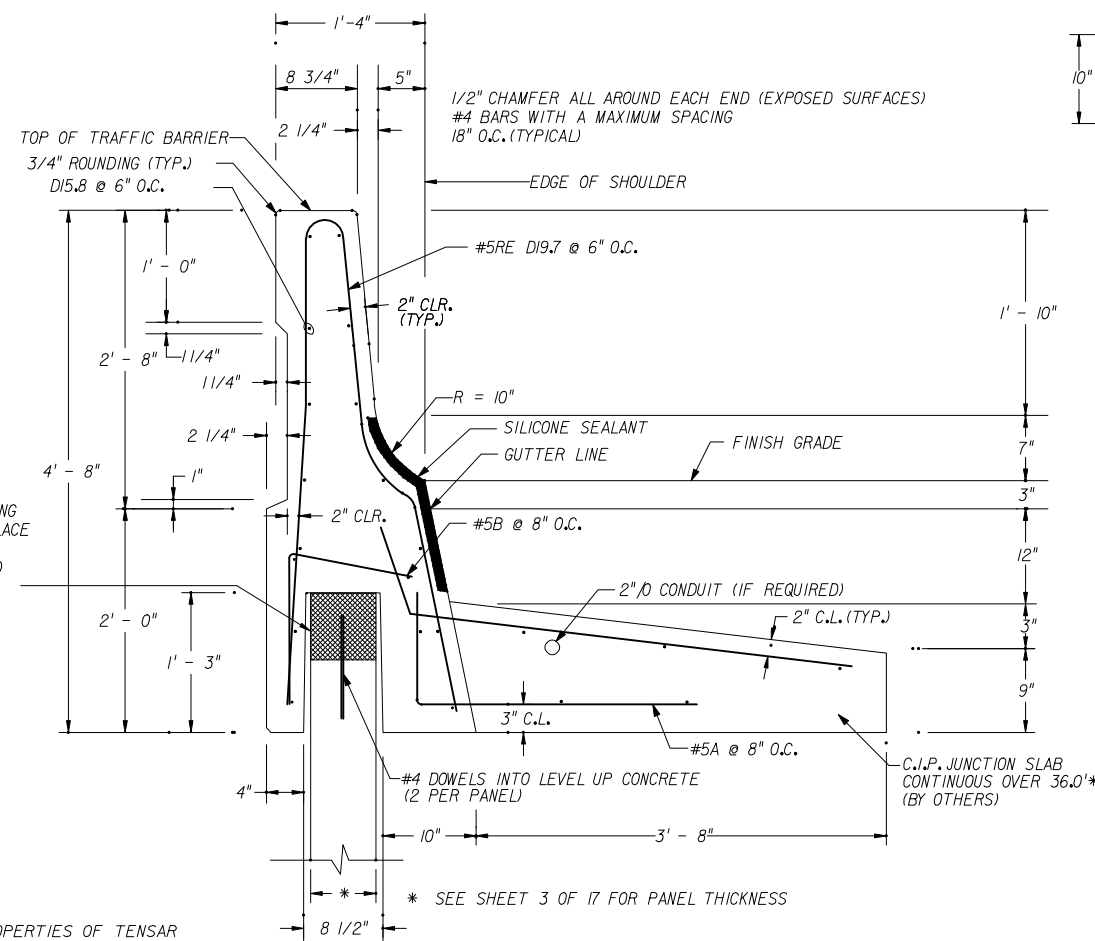
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Names	Dates	Approved By		
Designed By		 State Structures Design Engineer		
Drawn By	JMS 8/14/98	Revision	Sheet No.	Index No.
Checked By		00	10 of 17	5025

*****DGNSPECIFICATION*****
 *****SYTIME*****



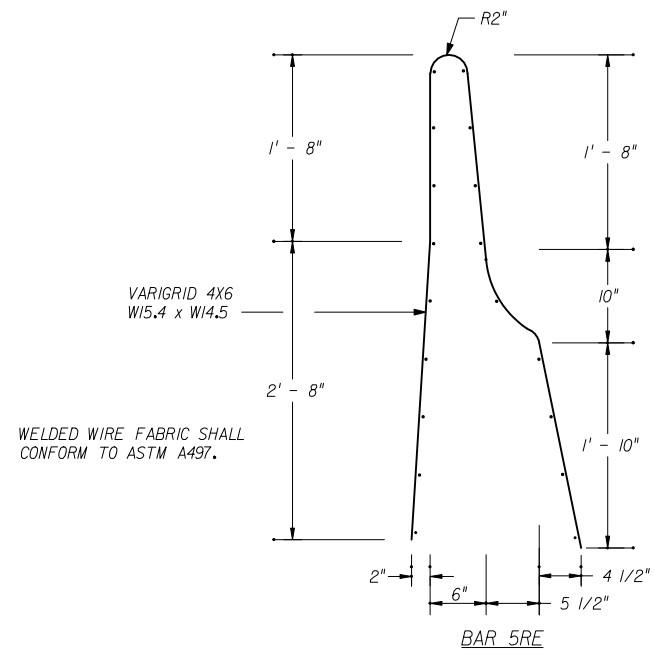
NOTES:
 A. ALL OPEN JOINTS IN PRECAST BARRIER SHALL BE FILLED 6" ABOVE FINISHED GRADE WITH 3/4" BACKING ROD AND CAULKED WITH SILICONE SEALANT
 B. 2" MIN. CLEARANCE ON ALL BARS EXCEPT WHERE SHOWN.
 * SEE SHEET 3 OF 17 FOR PANEL THICKNESS

PRECAST BARRIER - STANDARD REBAR REINFORCEMENT
 NOT TO SCALE



* SEE SHEET 3 OF 17 FOR PANEL THICKNESS

PRECAST BARRIER - VARIGRID REINFORCEMENT
 NOT TO SCALE



WELDED WIRE FABRIC SHALL CONFORM TO ASTM A497.

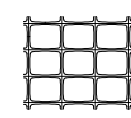
MARK	QUANTITY	REMARKS
5A	8	3'-6" LONG
5B	15	6'-6" LONG
A	VARIGARD	W14.5 @ 6" O.C.
B	VARIGARD	W15.4 @ 4" O.C.

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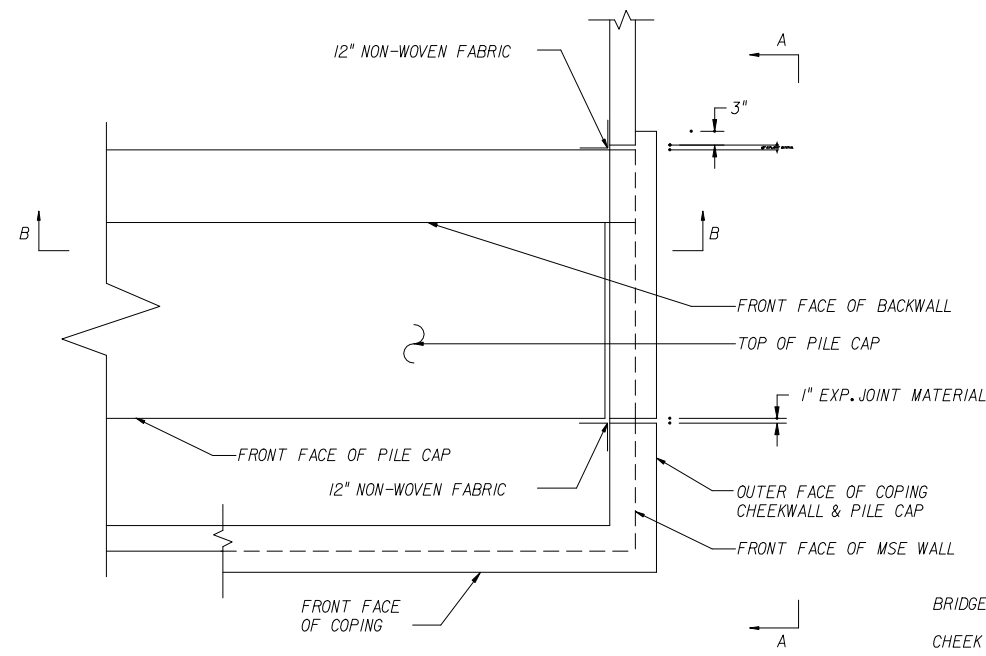
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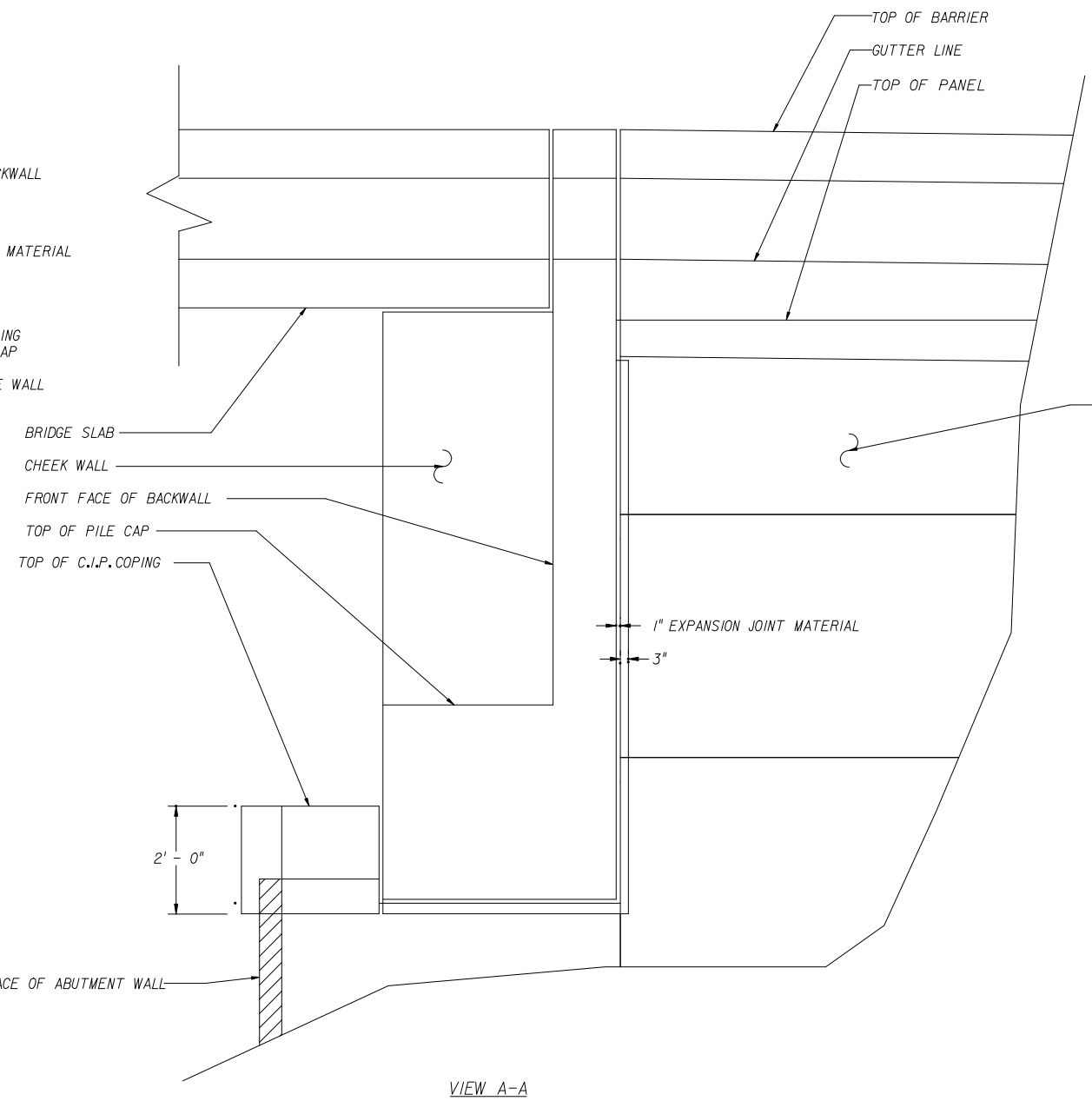
RETAINING WALL SYSTEM
 TENSAR EARTH TECHNOLOGIES
 MSE RETAINING WALL

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Drawn By	JMS 8/14/98	State Structures Design Engineer
Checked By		Revision
		Sheet No.
		Index No.
	00	11 of 17
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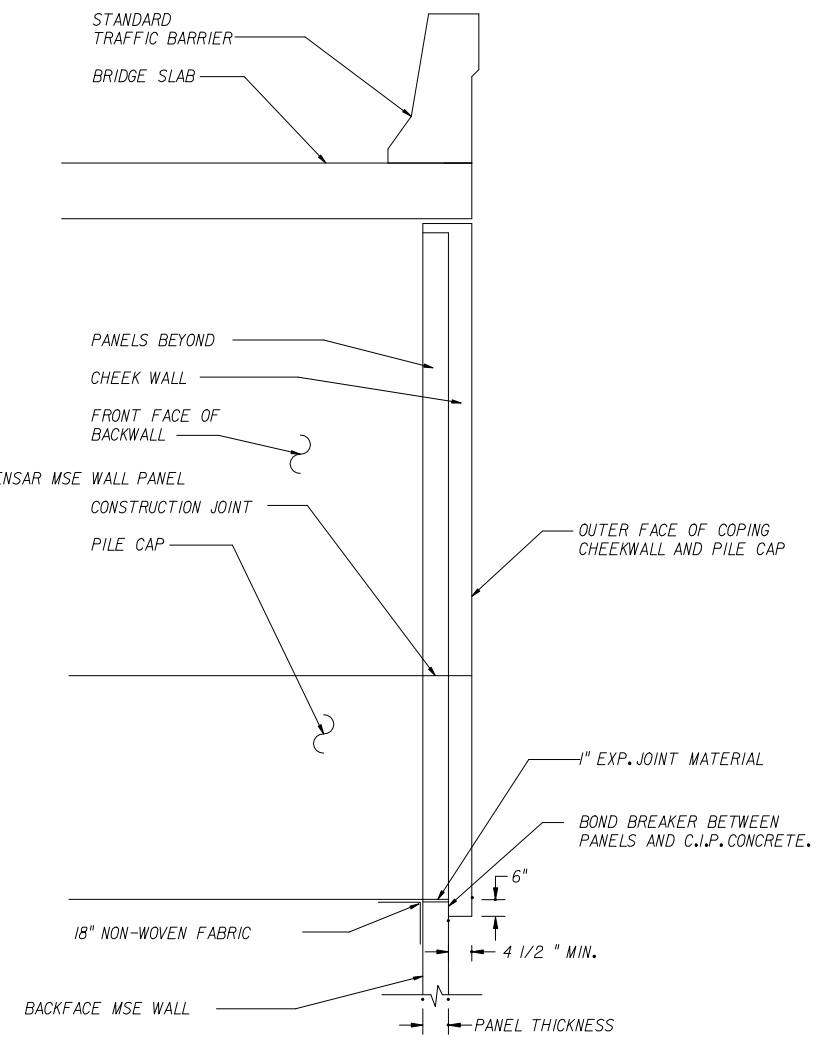
*****DGN SPECIFICATION*****
 *****SYTIME*****



PLAN VIEW @ ENDBENT
NOT TO SCALE



VIEW A-A



SECTION B-B

SECTIONS @ ENDBENT
NOT TO SCALE

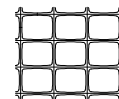
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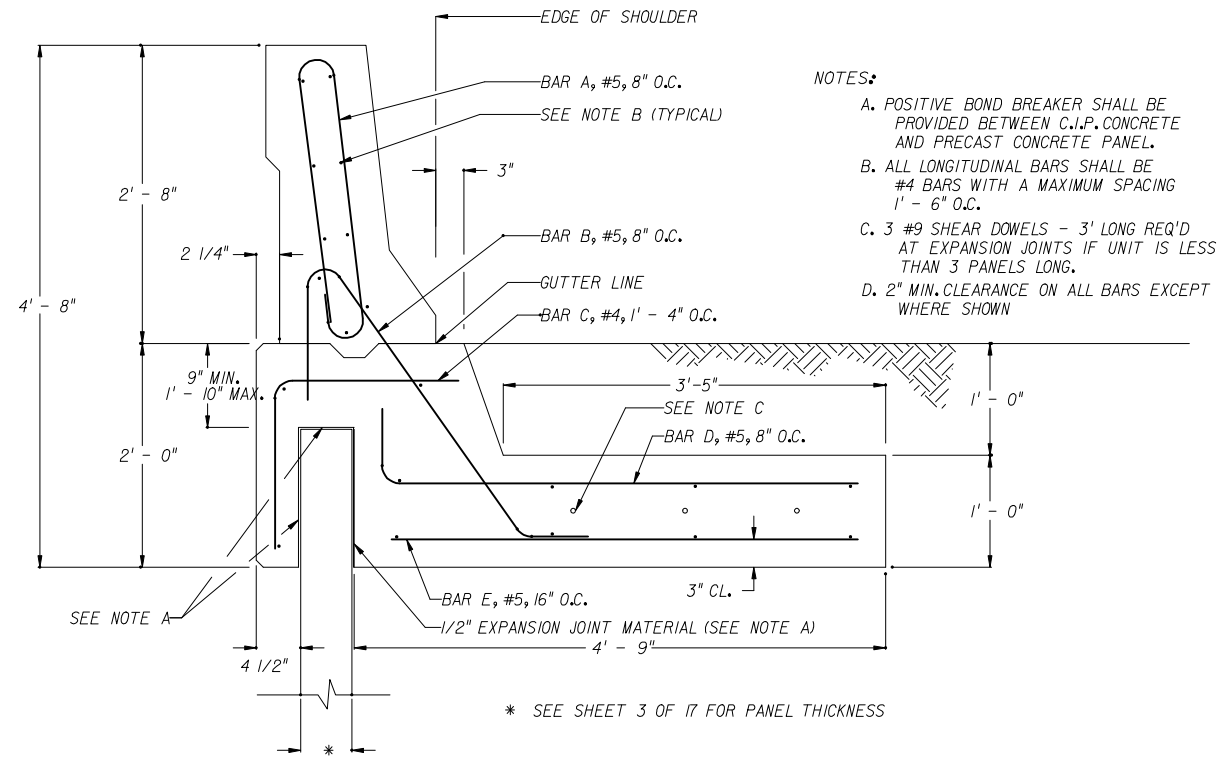
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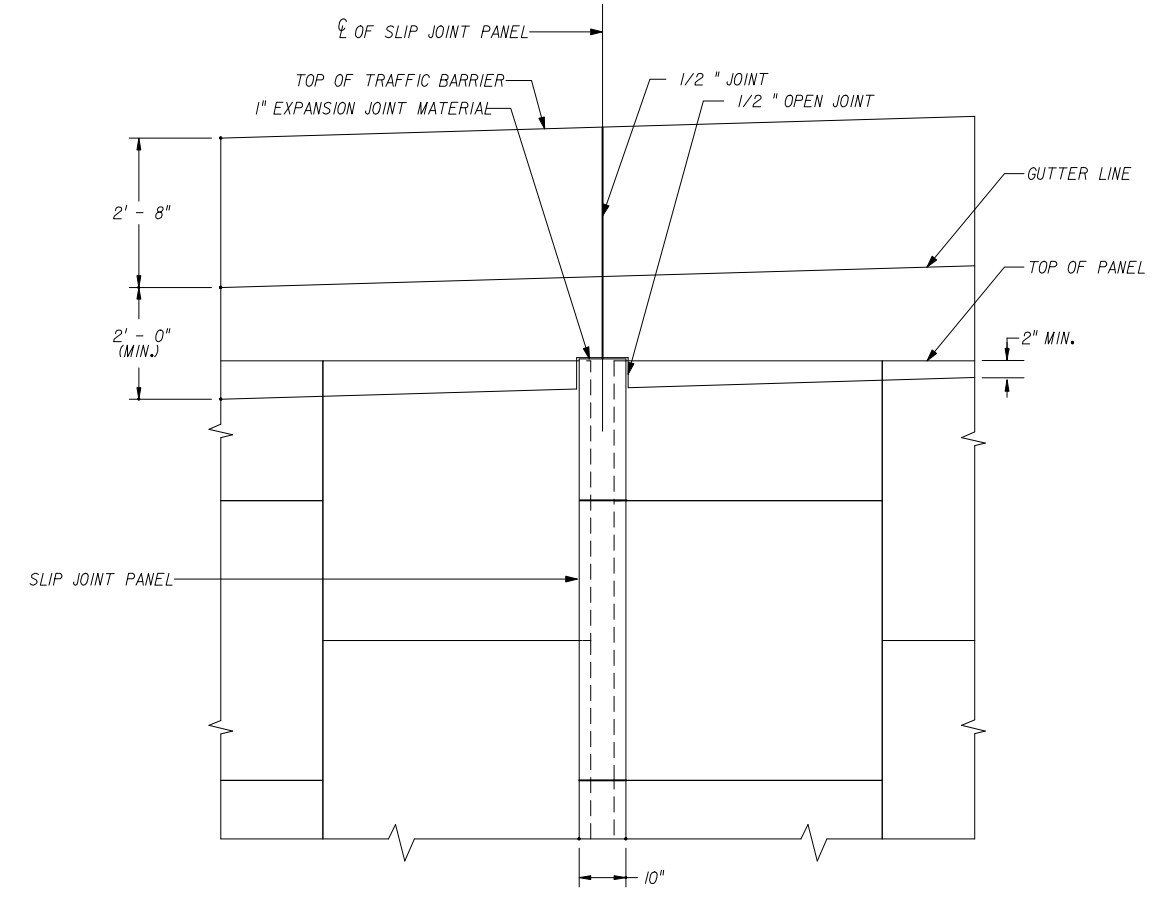
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Designed By	Names	Dates	Approved By <i>W. J. [Signature]</i>	
Drawn By	JMS	8/14/98	Revision	Sheet No. 12 of 17
Checked By			00	Index No. 5025

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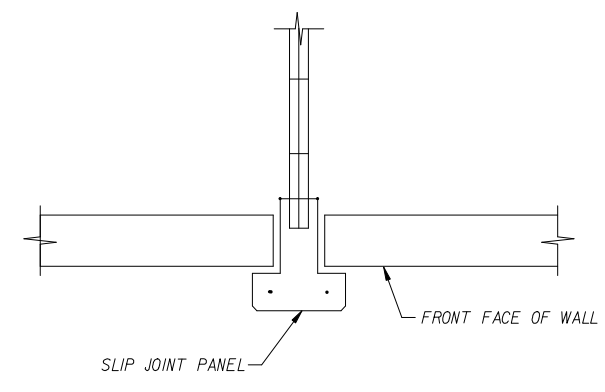


- NOTES:
- A. POSITIVE BOND BREAKER SHALL BE PROVIDED BETWEEN C.I.P. CONCRETE AND PRECAST CONCRETE PANEL.
 - B. ALL LONGITUDINAL BARS SHALL BE #4 BARS WITH A MAXIMUM SPACING 1' - 6\"/>

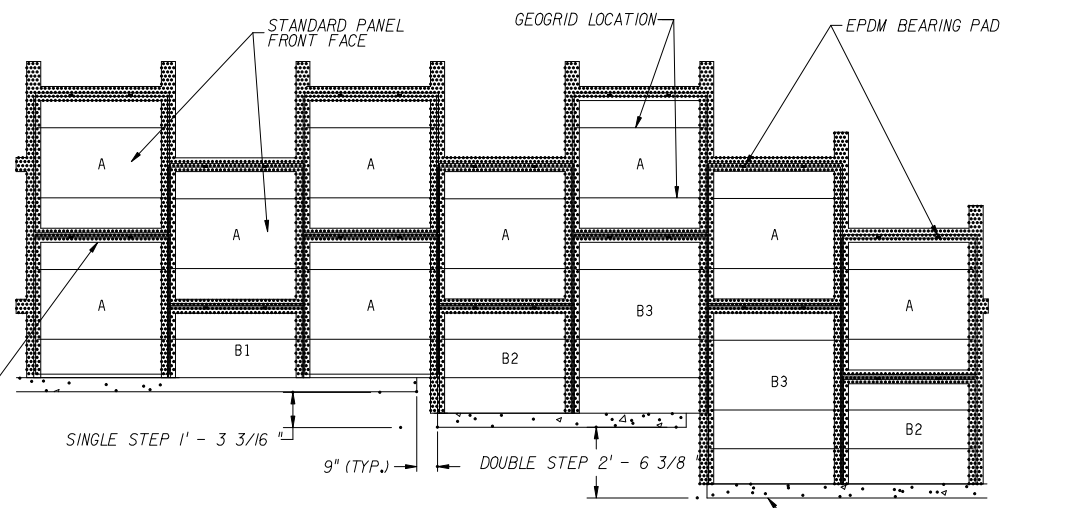
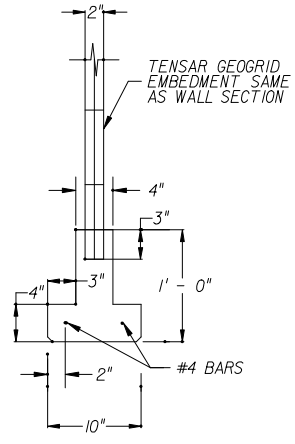
C.I.P. CONCRETE TRAFFIC BARRIER
NOT TO SCALE



C.I.P. TRAFFIC BARRIER
OVER SLIP JOINT PANEL



SLIP JOINT DETAIL
NOT TO SCALE



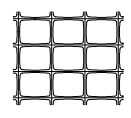
TYPICAL LEVELING PAD STEP DETAIL
NOT TO SCALE

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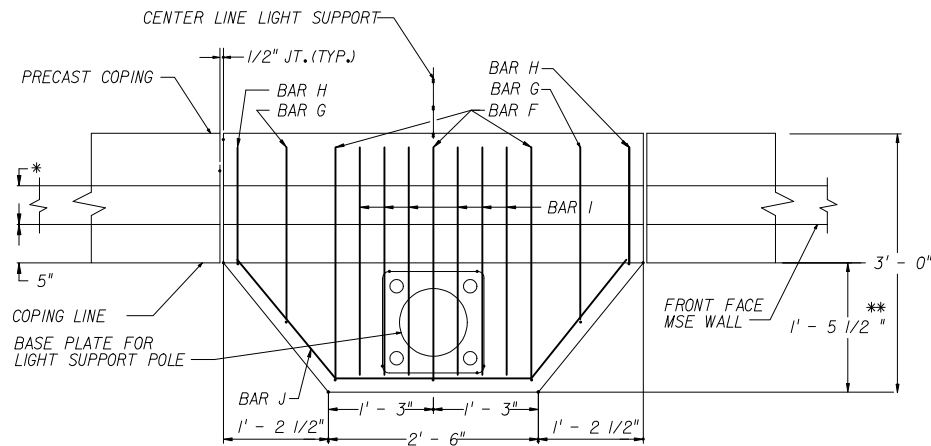
THIS SYSTEM MAY BE USED IN ALL ENVIRONMENTS.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGIES
MSE RETAINING WALL

Names	Dates	Approved By
Designed By		<i>W. J. [Signature]</i>
Drawn By	JMS 8/14/98	State Structures Design Engineer
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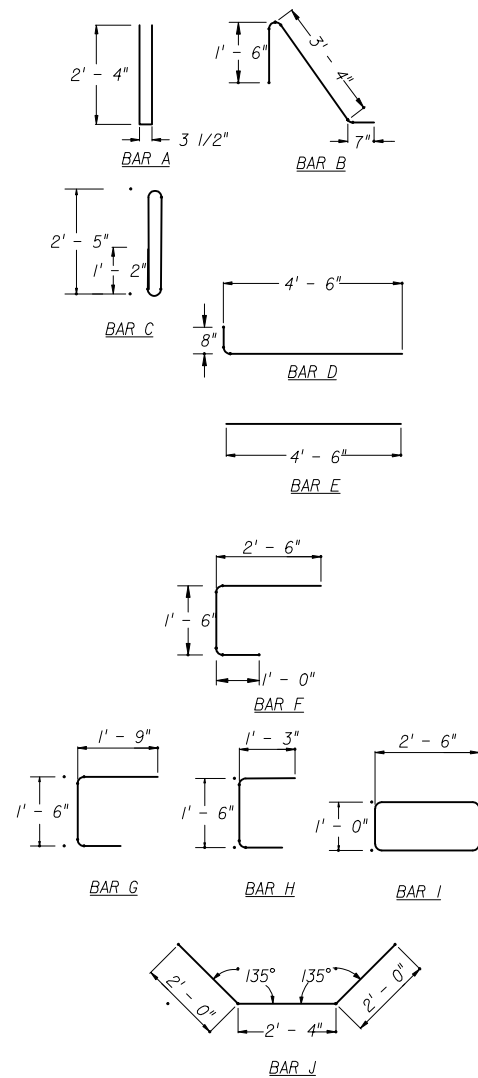
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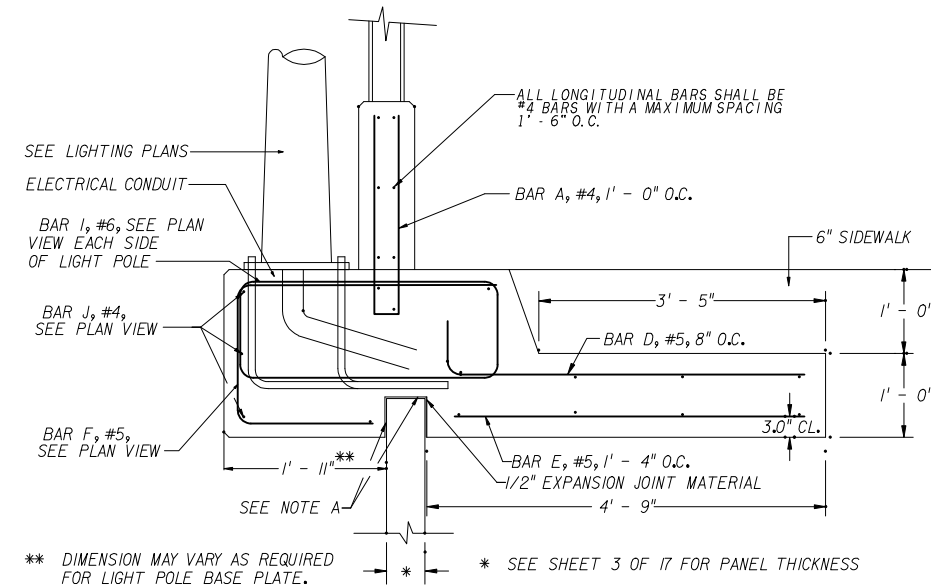
PLAN
NOT TO SCALE

NOTE: REBAR IN BARRIER AND JUNCTION SLAB NOT SHOWN FOR CLARITY

NOTE: REFER TO LIGHT POLE PILASTER DETAILS IN BRIDGE PLANS FOR NOTES AND ADDITIONAL DETAILS (CONDUIT, JUNCTION BOXES, ETC.)

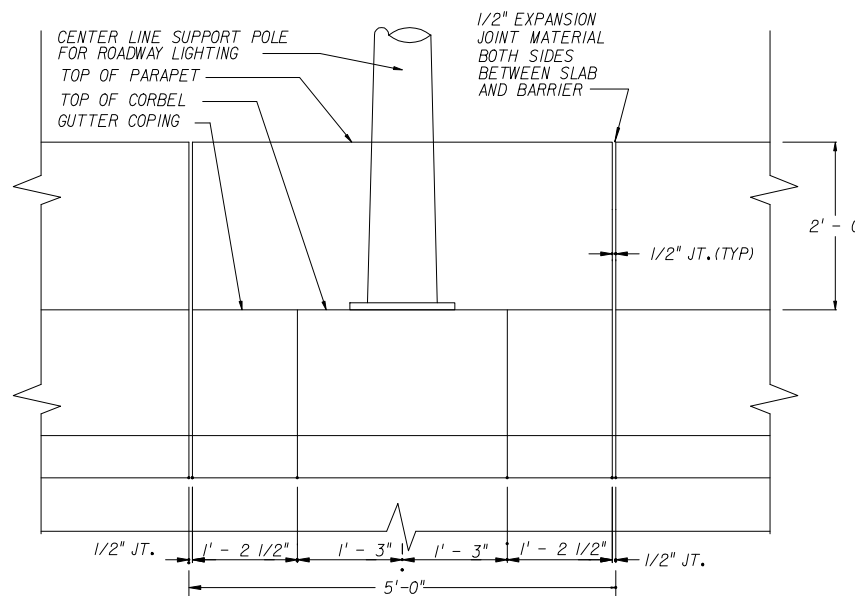


BAR BENDING DETAIL
NOT TO SCALE



PARAPET DETAIL AT LIGHT POLE
NOT TO SCALE

NOTES:
A. POSITIVE BOND BREAKER (6 MIL. POLYETHYLENE OR APPROVED EQUAL) SHALL BE PROVIDED BETWEEN CAST-IN PLACE CONC. AND PRECAST CONC. PANEL.
B. MAINTAIN A 2" MIN. CLEARANCE ON ALL BARS, EXCEPT WHERE NOTED OTHERWISE.



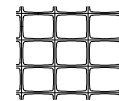
PARTIAL ELEVATION

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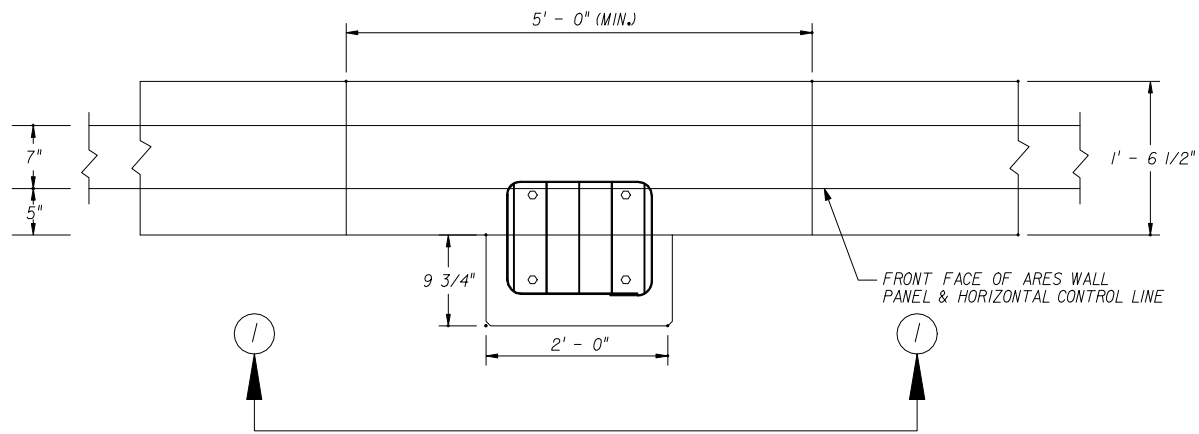
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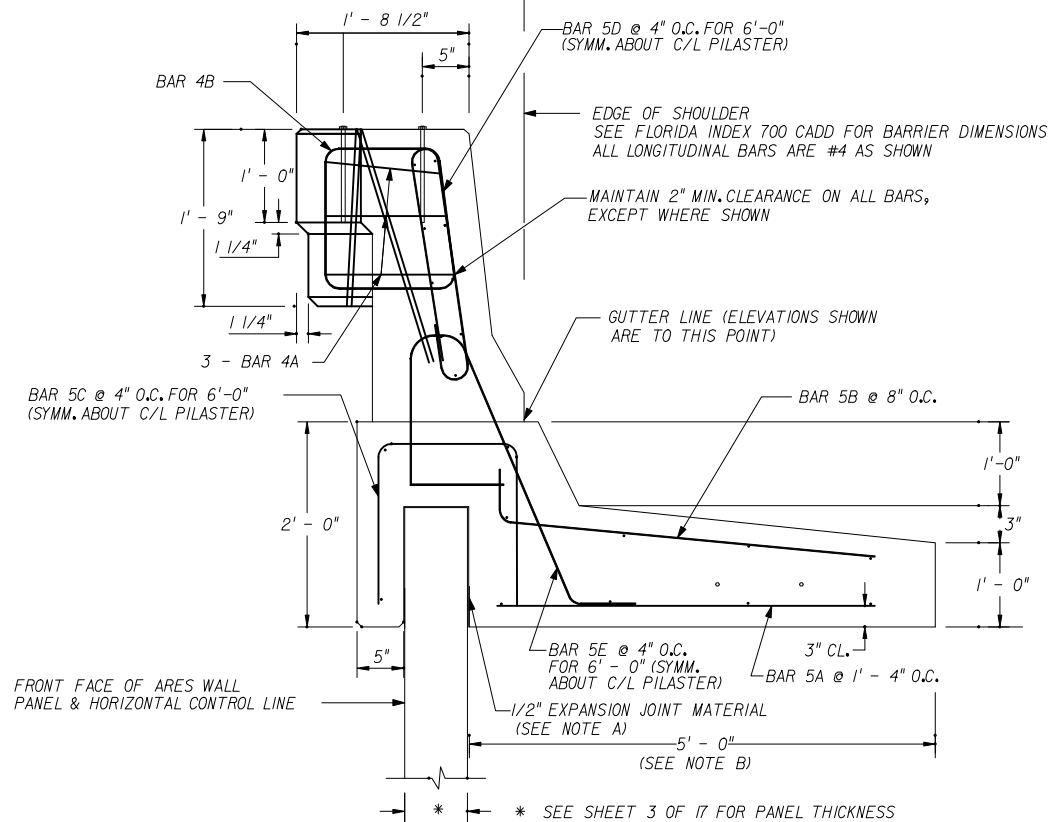
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
RETAINING WALL SYSTEM TENSAR EARTH TECHNOLOGIES MSE RETAINING WALL				
Names	Dates	Approved By		
Designed By		State Structures Design Engineer		
Drawn By	JMS 8/14/98	Revision	Sheet No.	Index No.
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*****DGNSPECIFICATION*****
*****SYTIME*****



2 PLAN
NOT TO SCALE



3 BARRIER DETAIL AT LIGHT POLE
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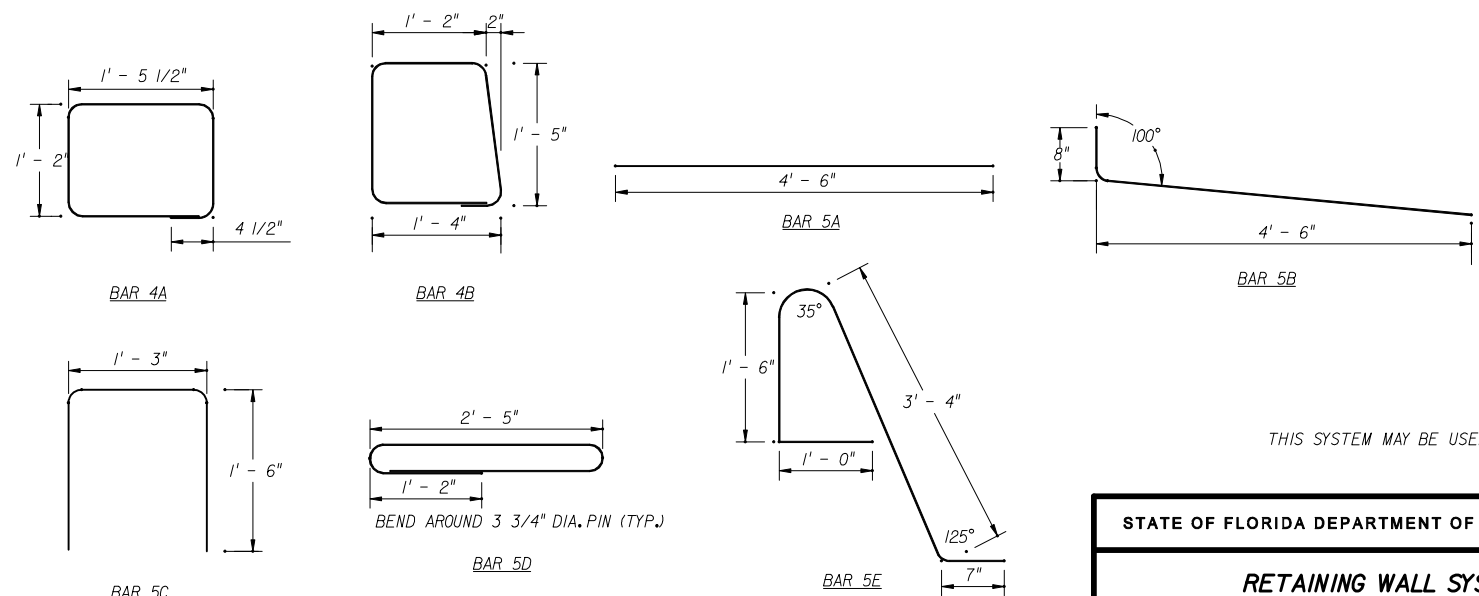
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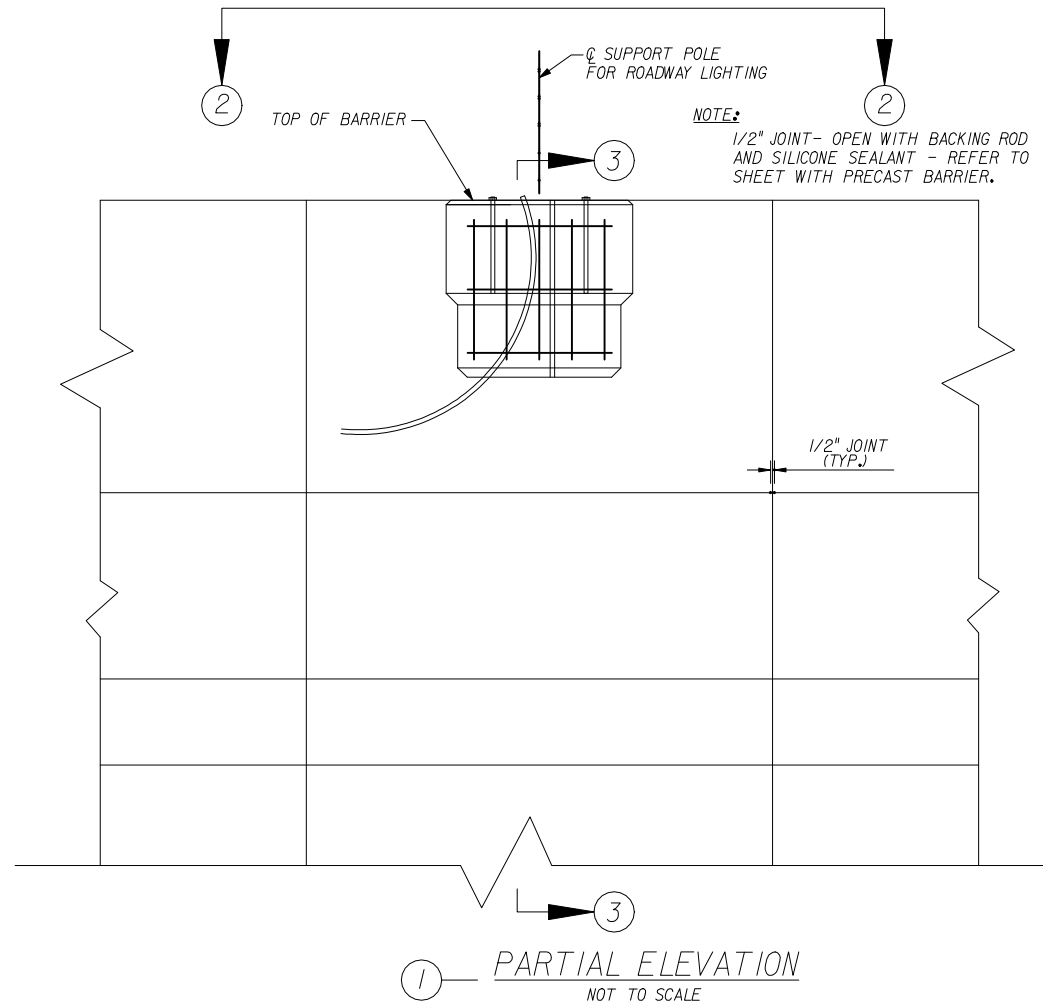
NOTES:

- A. POSITIVE BOND BREAKER SHALL BE PROVIDED BETWEEN CAST IN PLACE CONCRETE AND PRECAST CONCRETE PANEL.
- B. THE BARRIER JUNCTION SLAB SHALL HAVE THESE DIMENSIONS FOR ONE PRECAST UNIT EITHER SIDE OF LIGHT POLE BARRIER LONGITUDINAL BARS SHALL BE AS SHOWN ABOVE.
- C. 2 - #9 SHEAR DOWELS - 3'-0" LONG REFER TO PRECAST BARRIER SHEET.
- D. LIGHT POLE SUPPLIER IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOADS TO THE PILASTER AND FIT THE REINFORCING CAGE.
- E. SEE STANDARD INDEX 500 FOR ADDITIONAL DETAILS.

REBAR QUANTITY	
BAR	QTY
4A	3
4B	5
5A	18
5B	9
5C	18
5D	18
5E	18



4 BAR BENDING DETAIL
NOT TO SCALE

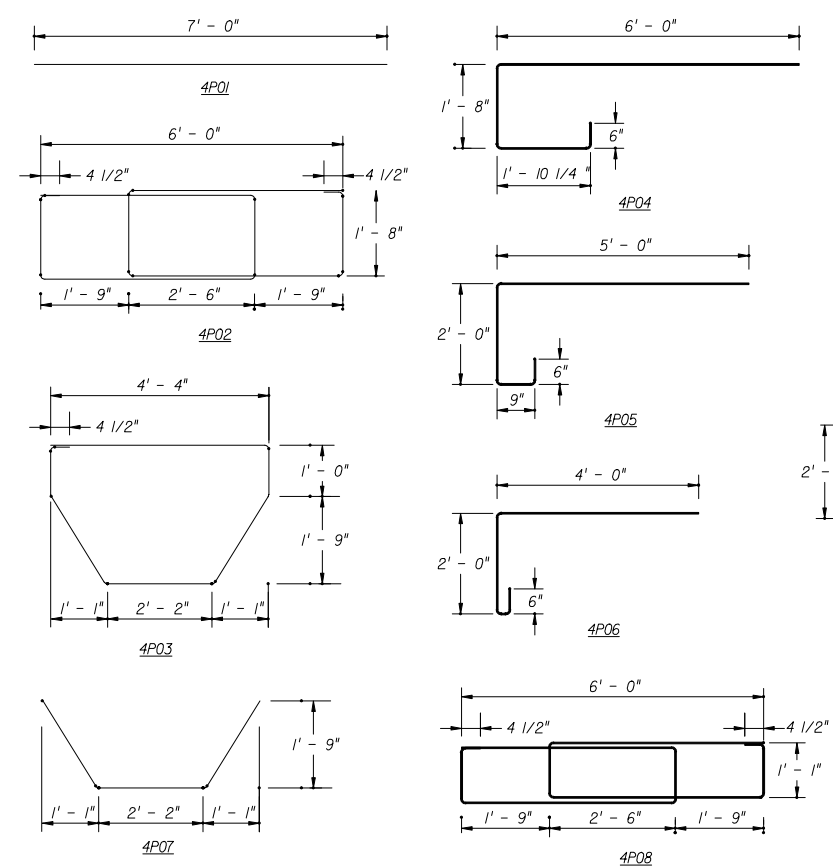
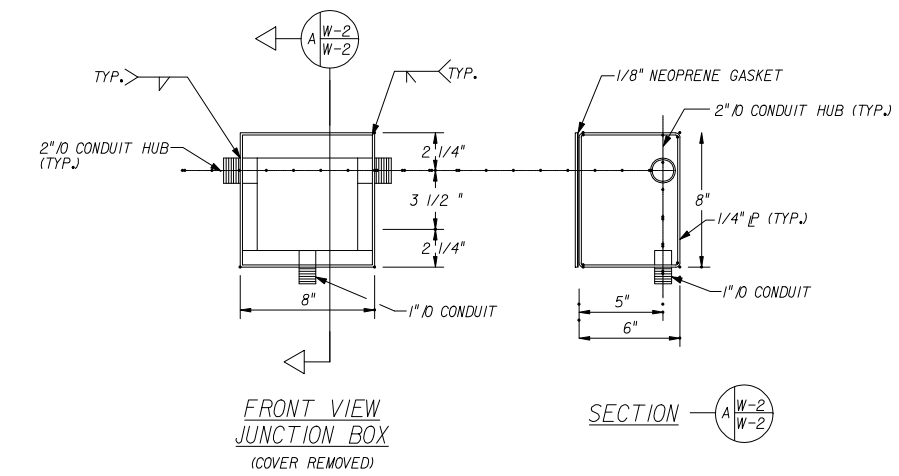
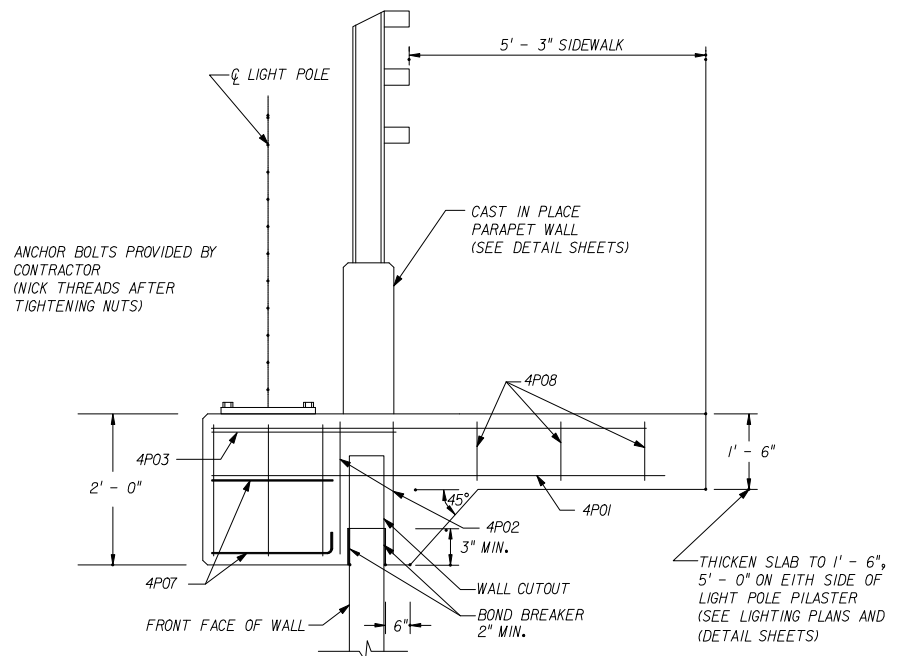


1 PARTIAL ELEVATION
NOT TO SCALE

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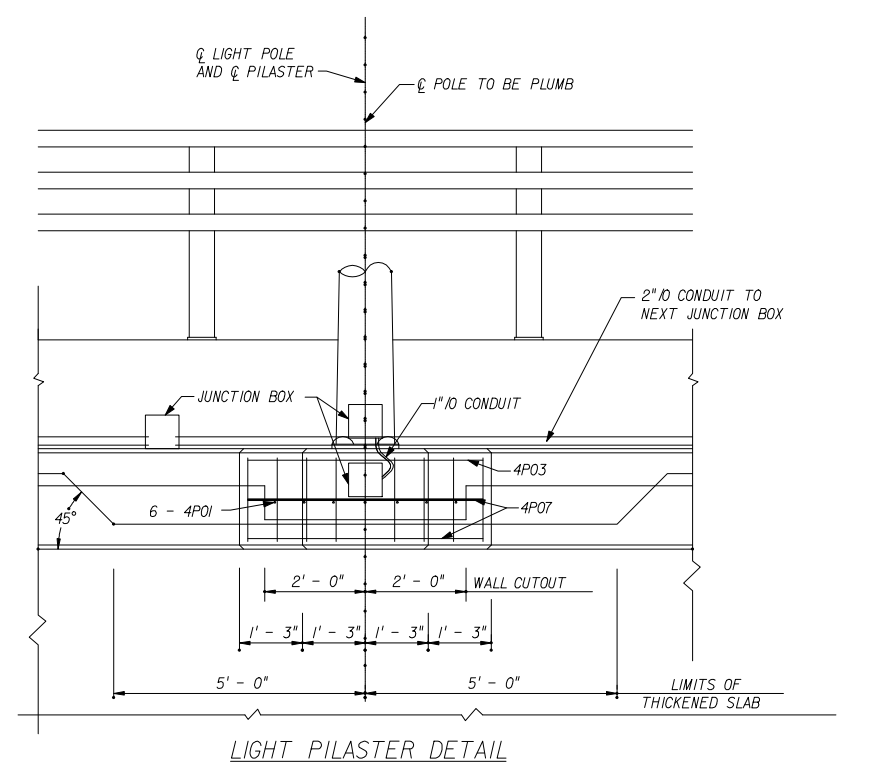
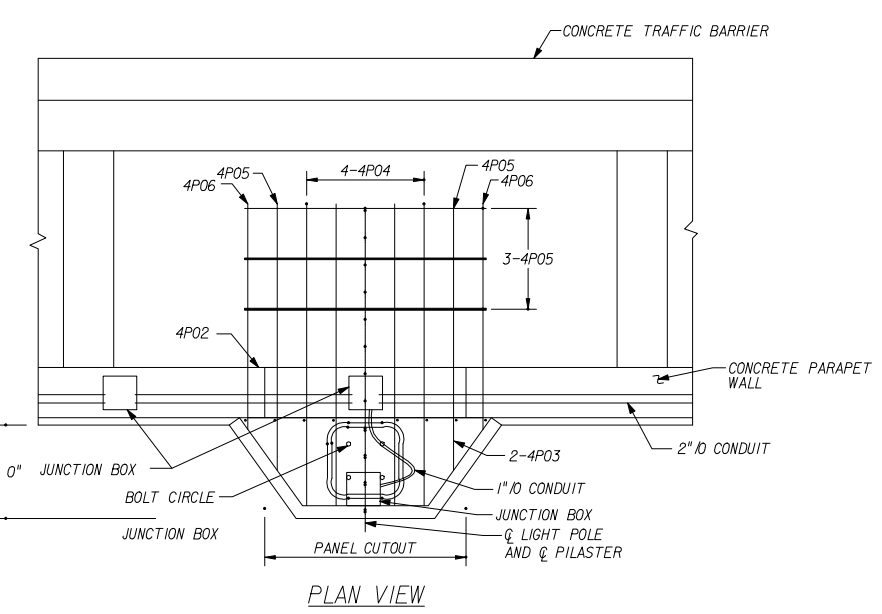
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BILL OF REINFORCING STEEL

MARK	SIZE	NO. REQUIRED	LENGTH
4P01	4	6	7' - 0"
4P02	4	2	24' - 5"
4P03	4	1	14' - 9"
4P04	4	4	9' - 8"
4P05	4	2	7' - 11"
4P07	4	2	6' - 2"
4P07	4	2	6' - 4"
4P08	4	3	22' - 1"

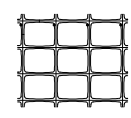


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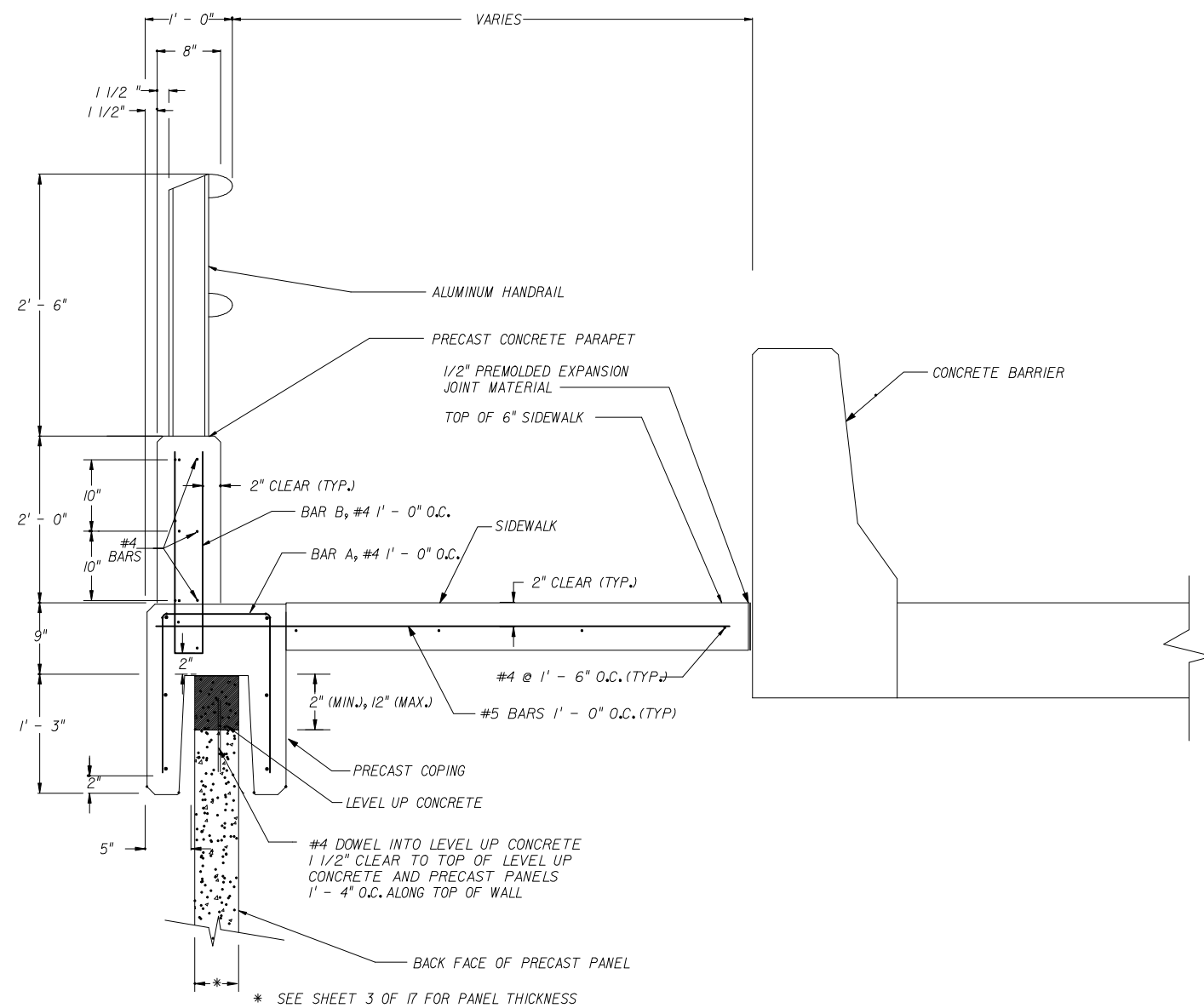
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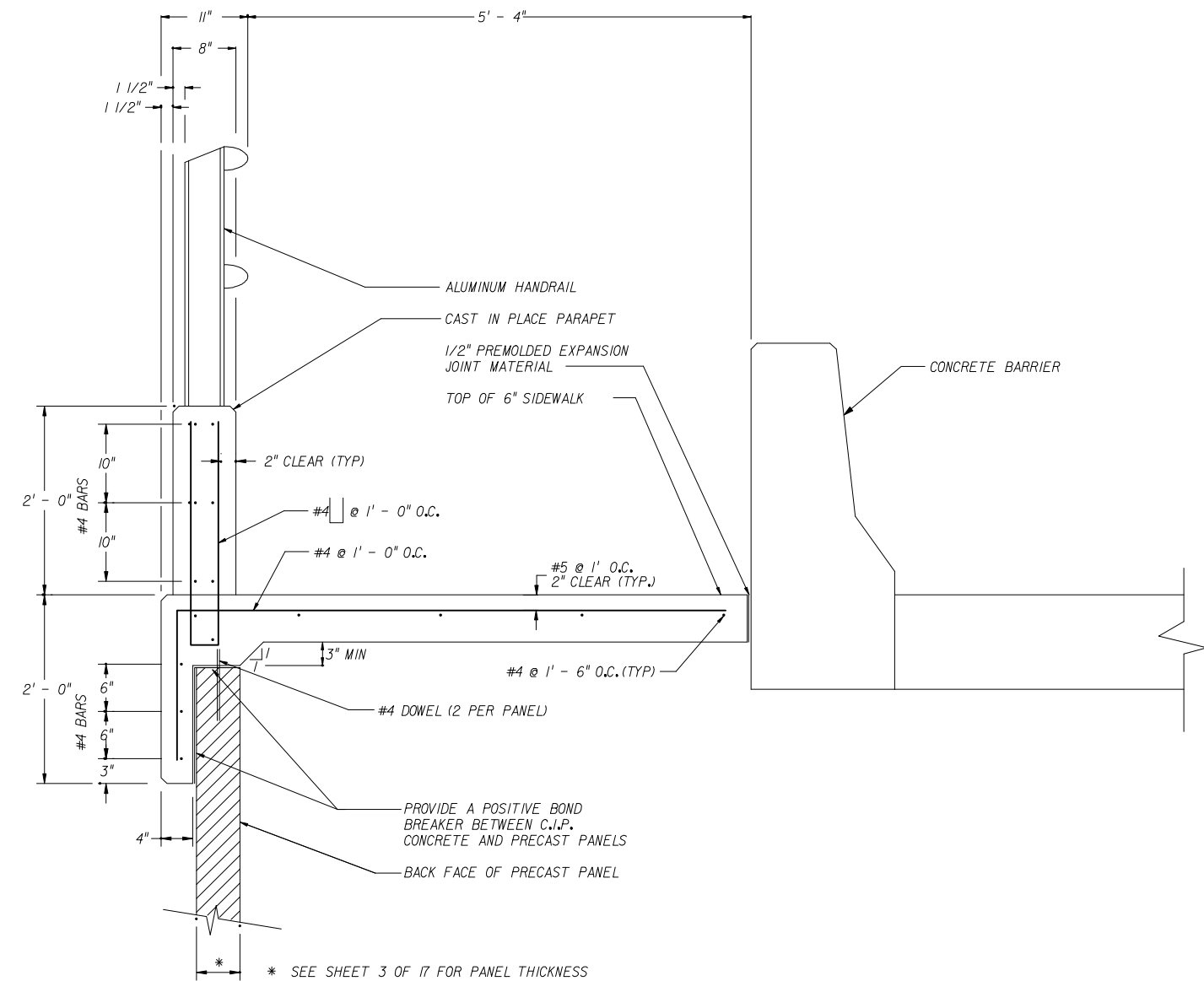
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PRECAST PARAPET DETAIL
NOT TO SCALE



C.I.P. PARAPET DETAIL
NOT TO SCALE

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGIES
MSE RETAINING WALL

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