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FINANCIAL PROJECT ID	STATE PROJ. NO.	SHEET NO.

GENERAL NOTES

DESIGN CRITERIA

- DESIGN IS BASED ON THE ASSUMPTION THAT MATERIAL WITHIN THE REINFORCED SOIL VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR MSE EARTH WALLS.
- FACTORS OF SAFETY
 OVERTURNING = 2.0
 INTERNAL PULLOUT = 1.5 (ALLOW DEFORMATION OF 3/4")
 OVERALL STABILITY = 1.5
 SLIDING = 1.5
 BEARING = 2.5

 ALLOWABLE STRESS IN REINFORCING MESH AT END OF DESIGN LIFE = 0.47 Fy
- SOIL CHARACTERISTICS ASSUMED FOR DESIGN:
 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 ϕ , C, AND γ SHALL BE PROVIDED IN THE SHOP DRAWINGS.
- THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL ELEVATIONS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF OTHERS TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED SOIL VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

REINFORCING ELEMENTS

- REINFORCING MESH ELEMENTS SHALL BE SHOP FABRICATED FROM COLD DRAWN STEEL ROD CONFORMING TO THE MINIMUM REQUIREMENTS OF ASTM A-82 AND SHALL BE WELDED AT THE JUNCTIONS BETWEEN LONGITUDINAL AND TRANSVERSE WIRES IN ACCORDANCE WITH ASTM A-185. GALVANIZATION SHALL BE APPLIED AFTER MESH FABRICATION AND BENDING AND SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123.

DESIGN

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

WALL CONSTRUCTION

- CURVES IN THE WALL WILL BE FORMED BY A SERIES OF SHORT CORDS, OF 4' - 11 1/4" EACH, TO MATCH THE DESIRED WALL ALIGNMENT.
- FOR LOCATION AND ALIGNMENT OF MSE WALLS, SEE WALL CONTROL DRAWINGS.
- IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.
- IF PILES ARE LOCATED WITHIN THE REINFORCED SOIL VOLUME, THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE MSE WALL, UNLESS A METHOD TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO SSL CONSTRUCTION AND THE ENGINEER, IS PROPOSED AND APPROVED IN WRITING.
- BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SPECIFICATION SECTION 548 TO A LEVEL OF 2' (+/-) ABOVE THE MESH CONNECTION IN THE PANELS. INSTALLATION OF REINFORCING MESH SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.
- WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 548.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY GUARDRAIL POSTS BEHIND THE MSE PANELS. PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING MESH, INDIVIDUAL REINFORMING MESH MAY BE CUT AND SKEWED TO AVOID THE POST LOCATIONS IF AUTHORIZED BY THE ENGINEER ON THE SHOP DRAWINGS. NO CUTTING OF REINFORCING MESH IS ALLOWED UNLESS SHOWN ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL REPAIR ANY DAMAGE DONE TO THE REINFORCING MESH DUE TO THE INSTALLATION OF GUARDRAIL POSTS.

WALL CONSTRUCTION CONT

- IF EXISTING STRUCTURES, PIPES, FOUNDATIONS, OR GUARDRAIL POSTS, WHICH ARE WITHIN THE REINFORCED SOIL VOLUME, INTERFERE WITH THE NORMAL PLACEMENT OF REINFORCING MESH AND SPECIFIC DIRECTION HAS NOT BEEN PROVIDED ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE WHAT COURSE OF ACTION SHOULD BE TAKEN.
- TOP PANELS, BENEATH PRECAST COPING, SHALL BE CAST TO FOLLOW THE PROFILE OF THE WALL.
- FOR ADDITIONAL INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO THE SSL CONSTRUCTION MANUAL.
- THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING MESH DOWNWARD TO AVOID CONFLICTS WITH PAVING AND SUBRADE PREPARATION. THE CONTRACTOR'S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROADWAY SUPERELEVATION AND/OR SOIL MIXING ARE ANTICIPATED.
- IF WALL DESIGN HEIGHT IS IN EXCESS OF 20' - 0", THE FINISHED GRADE IN FRONT OF THE WALL SHALL BE PLACED AND COMPACTED BEFORE CONSTRUCTION OF THE WALL EXCEEDS 20' - 0". FINISHED GRADE SHALL BE COMPACTED TO 95% OF T-180 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

MATERIALS NOTES

NOMINAL MESH LENGTHS

- THE REINFORCING MESH LENGTH SHOWN ON THE PLANS, MEASURED FROM BACK FACE OF PANEL, ARE THE NOMINAL LENGTHS REQUIRED BY CALCULATIONS. THE ACTUAL FABRICATED REINFORMING MESH LENGTHS ARE OFTEN LONGER (UP TO 6") DUE TO MANUFACTURING TOLERANCES. THE REQUIRED HORIZONTAL LIMIT OF GRANULAR BACKFILL IS EQUAL TO THE NOMINAL REINFORCING MESH LENGTH. ADDITIONAL GRANULAR BACKFILL BEYOND THE NOMINAL REINFORCING MESH LENGTH IS NOT REQUIRED BY CALCULATIONS.

REINFORCED BACKFILL QUANTITY

- THE REINFORCED BACKFILL QUANTITY INDICATED BY SSL CONSTRUCTION IS CALCULATED BY MULTIPLYING THE NOMINAL MESH LENGTHS SHOWN ON THE PLANS BY THEIR TRIBUTARY WALL SURFACE AREA AND CONVERTING THE RESULT TO A NEATER CUBIC FOOT QUANTITY. THIS INFORMATION IS FURNISHED FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT INTENDED TO PRESENT THE ACTUAL QUANTITIES REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR MUST CALCULATE HIS OWN EXCAVATION AND BACKFILL QUANTITIES BASED UPON THE SPECIFIC CONDITIONS OF THE PROJECT.

PANEL FINISH

- THE FINISH OF THE PRECAST PANEL SHALL BE PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED ON THE WALL CONTROL DRAWINGS.

NOTE TO CONTRACTORS

- ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY SSL CONSTRUCTION.

PRECAST PANEL (PER SPECIFICATION SECTION 548)
 REINFORCING MESH & CONNECTION PIN
 HDPE BEARING PAD (NOMINAL 4.0 MELT / .950 DENSITY)
 NON-WOVEN FILTER CLOTH AND ADHESIVE (FOR PANEL JOINTS ONLY)

ANY OTHER MATERIALS CALLED FOR IN THE CONTRACT PLANS OR SPECIFICATIONS ARE TO BE SUPPLIED BY THE CONTRACTOR. ANY JOINT MATERIALS SHOWN AT THE INTERFACE OF PRECAST PANELS AND CAST-IN-PLACE CONCRETE STRUCTURES ARE TO BE SUPPLIED BY THE ERECTION CONTRACTOR. ALL SANDBLASTING, PAINTING, SEALERS OR OTHER SPECIALLY APPLIED COATINGS ARE ALSO SUPPLIED / INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

- SSL CONSTRUCTION SUPPLIES PRECAST CONCRETE FACING PANELS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF THE MSE WALLS DETAILED HERIN. THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANAL FURNISHED BY SSL CONSTRUCTION IS INTENDED TO PROVIDE GENERAL EXPLANATION OF THE SYSTEM. IT IS THE CONTRACTOR'S OBLIGATION TO DEVISE AND EXECUTE A PROJECT SPECIFIC ERECTION SEQUENCE, PANEL UNLOADING, HANDLING AND BRACING SYSTEM, AND FALL PROTECTION SYSTEM. THE BRACING SYSTEM SHOWN IN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL IS GENERAL IN NATURE AND DOES NOT ACCOUNT FOR PROJECT SPECIFIC CRITERIA. COMPLIANCE WITH THE GUIDELINES IN THIS MANUAL DOES NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITY TO ADHERE TO THE PROJECT PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS OR COMPLIANCE WITH ALL FALL PROTECTION, SAFETY, LAWS, STANDARDS, AND PROCEDURES AT THE JOB SITE. CONTRACTOR'S SHOULD TAKE SPECIAL PRECAUTIONS TO PREVENT THE PANELS FROM SHIFTING OR FALLING DURING THE ERECTION PROCESS.

THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEMS
 SSL
 MSE PLUS WALL SYSTEM

DATE : 01-01-05

INTERIM STANDARD IN ENGLISH UNITS
 APPLICABLE TO DESIGN STANDARDS
 BOOKLET PUBLISHED IN EITHER ENGLISH
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INTERIM STANDARD

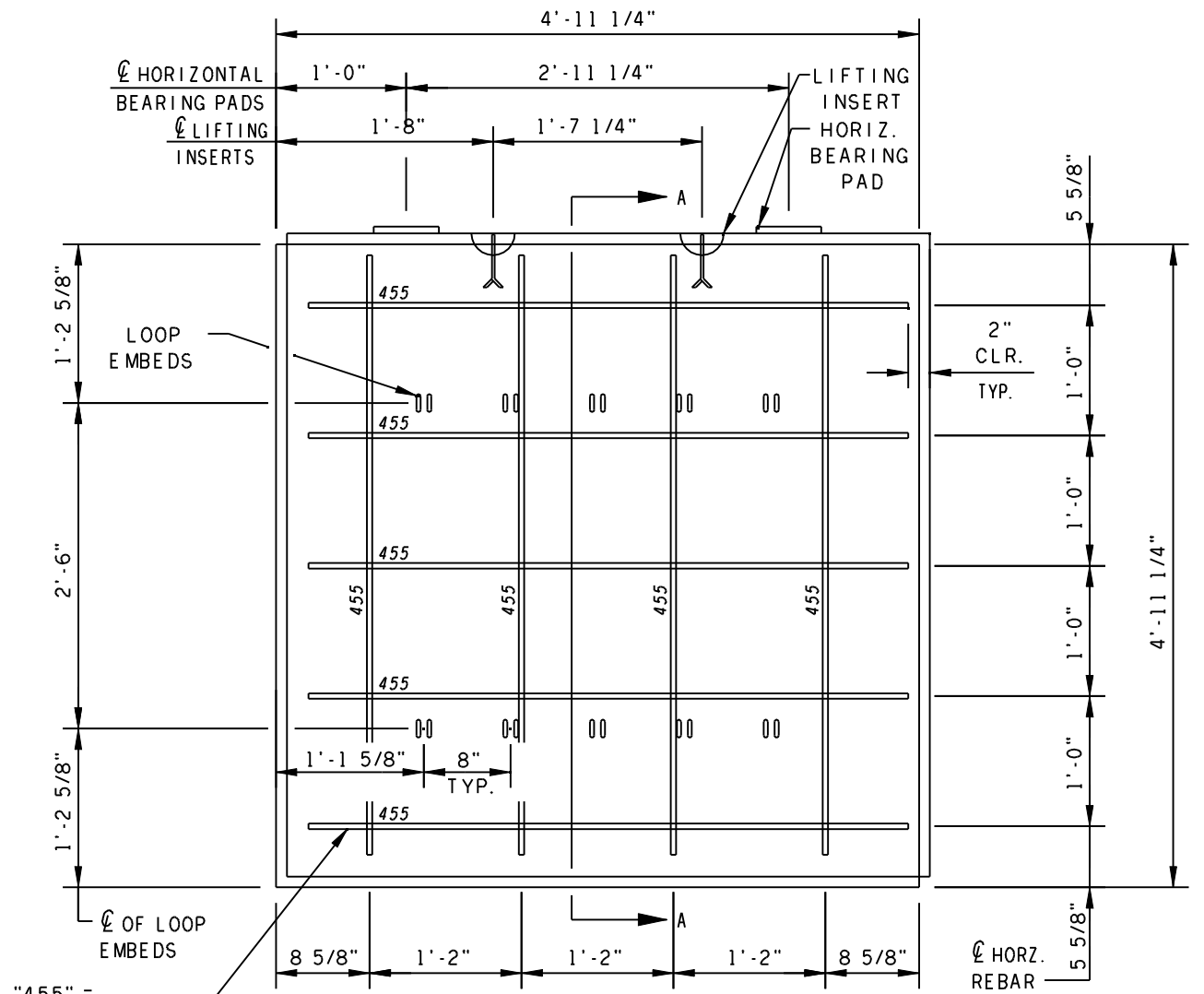
APPROVED BY
William N. Nickas, P.E.
 State Structures Design Engineer

Index No. 5035 (Sheets 1 - 14 of 14)
 is a supplement to the metric Roadway
 and Traffic Design Standards Booklet
 dated January 2000.

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04	1 of 14	5035

THE DESIGN OF ALL MSE PLUSSM WALLS IS BASED ON THE ASSUMPTION THAT ALL MATERIALS, INCLUDING THE BACKFILL AND METHODS OF CONSTRUCTION, CONFORM TO THE SPECIFICATIONS FOR MSE PLUSSM RETAINING WALLS AND THE PROJECT BID DOCUMENTS

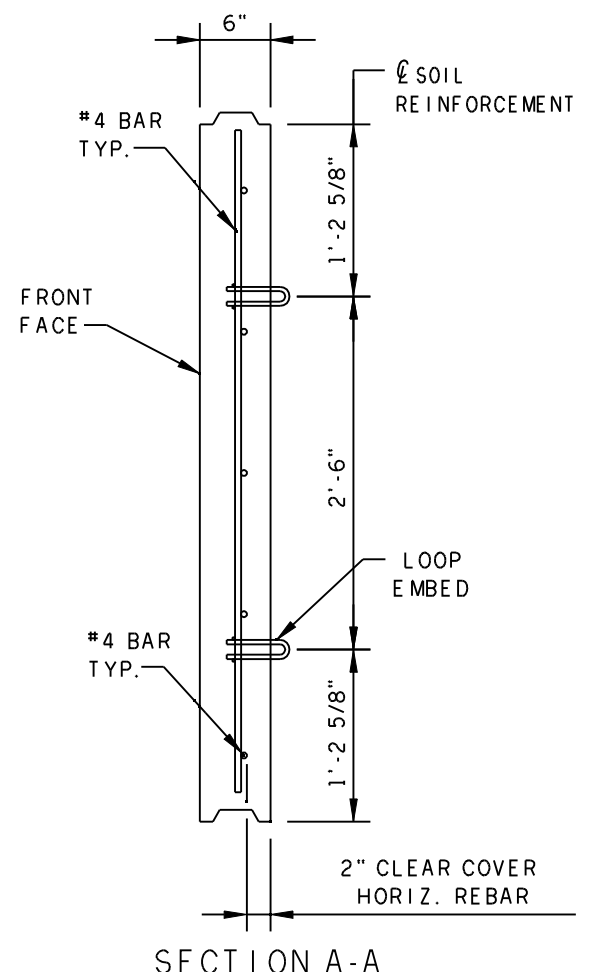
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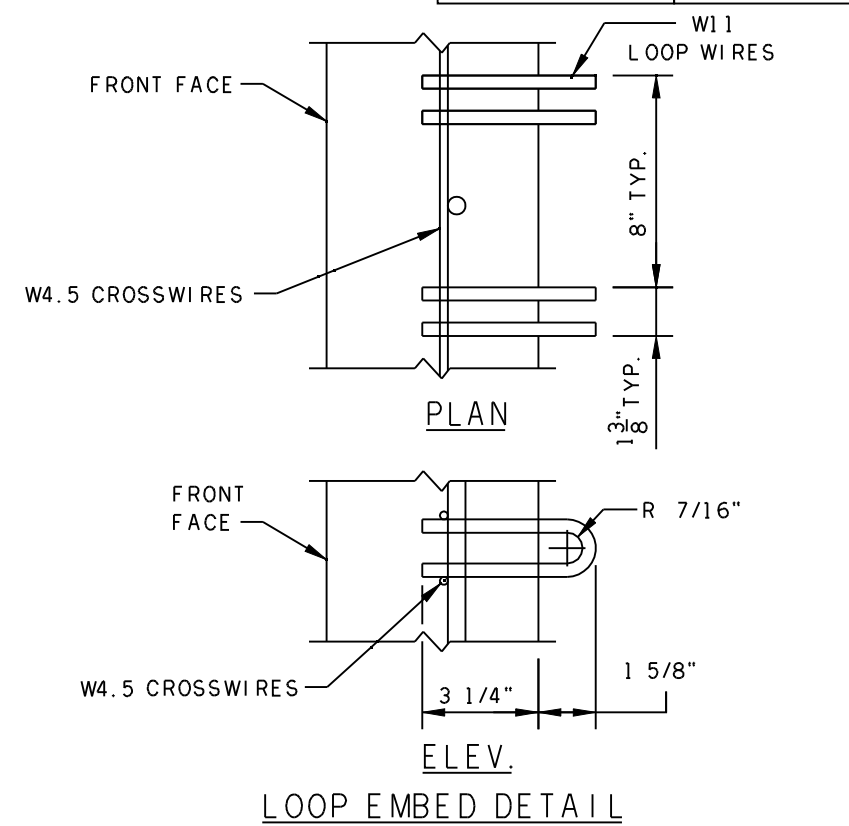
"455" = #4x4'-7" (55")

STANDARD PANEL
Back Face View

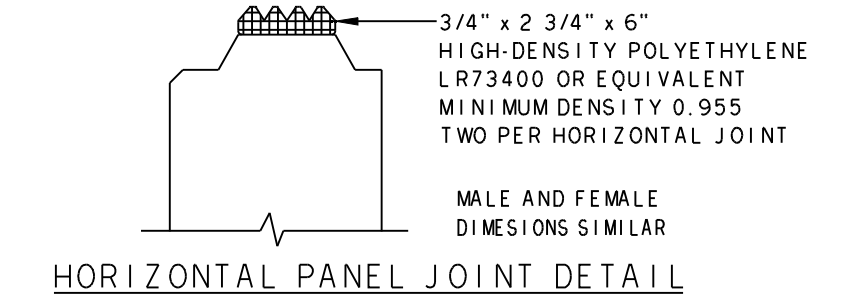
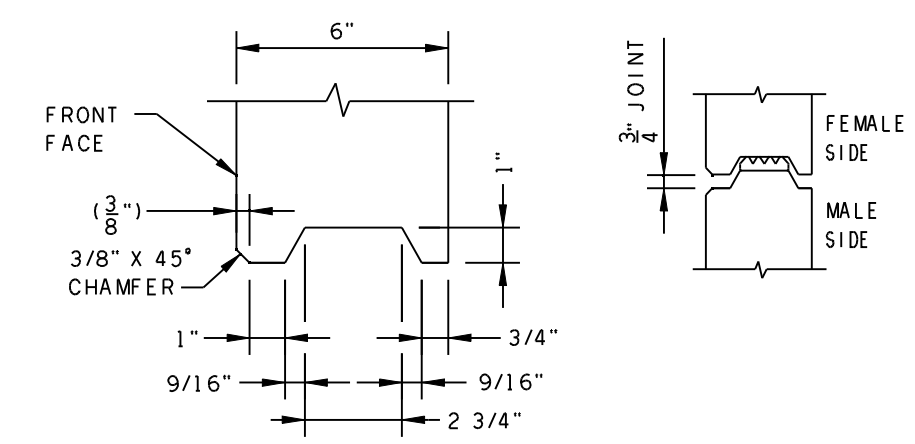
NOTE:
PANEL SHOWN FOR W1
WIRE ATTACHMENT ONLY.
(SEE NOTE 6, SHEET 2 OF 2
FOR REINFORCEMENT OPTIONS)



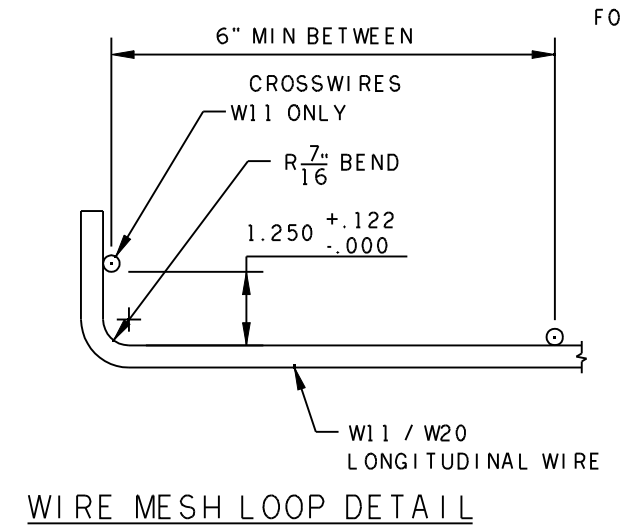
SECTION A-A



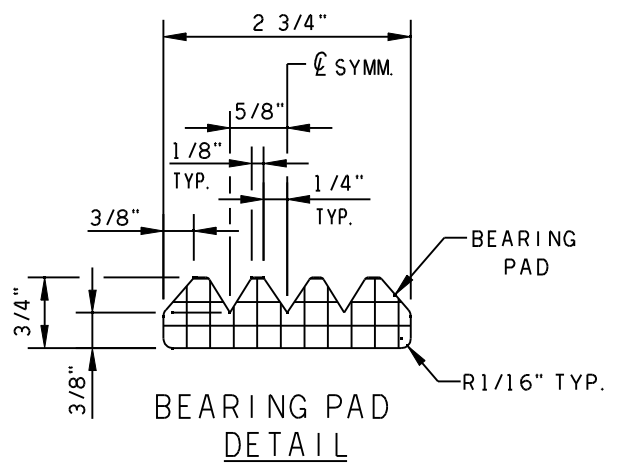
LOOP EMBED DETAIL



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WIRE MESH LOOP DETAIL



BEARING PAD DETAIL

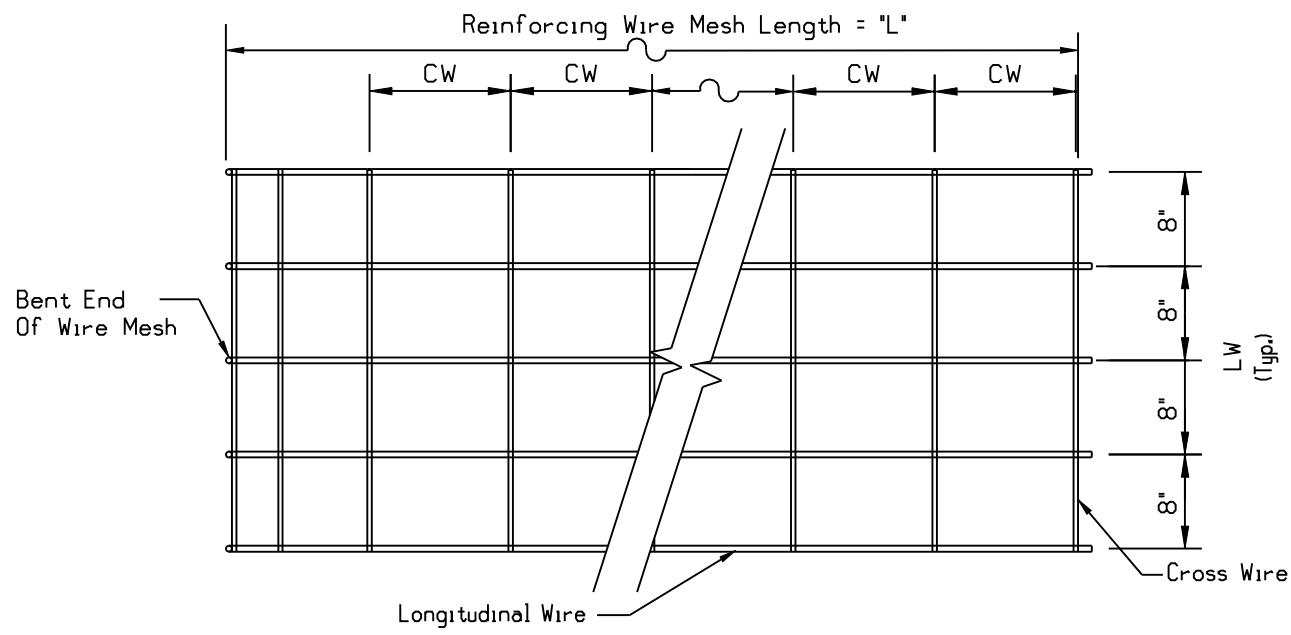
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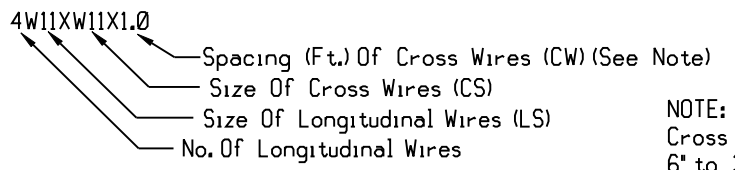
DATE : 01-01-05

INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN EITHER ENGLISH OR METRIC UNITS.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
RETAINING WALL SYSTEMS		
SSL		
MSE PLUS WALL SYSTEM		
INTERIM STANDARD	APPROVED BY William N. Nickas, P.E. State Structures Design Engineer	
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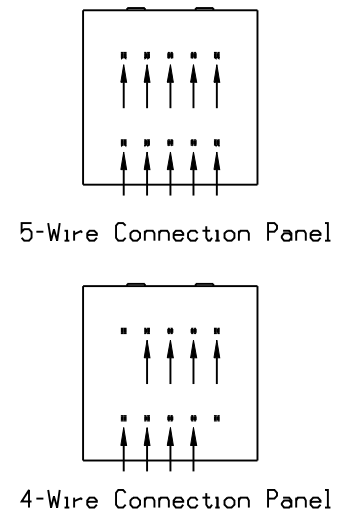
EXAMPLE WIRE MESH DESIGNATION: 4W11XW11X1.0



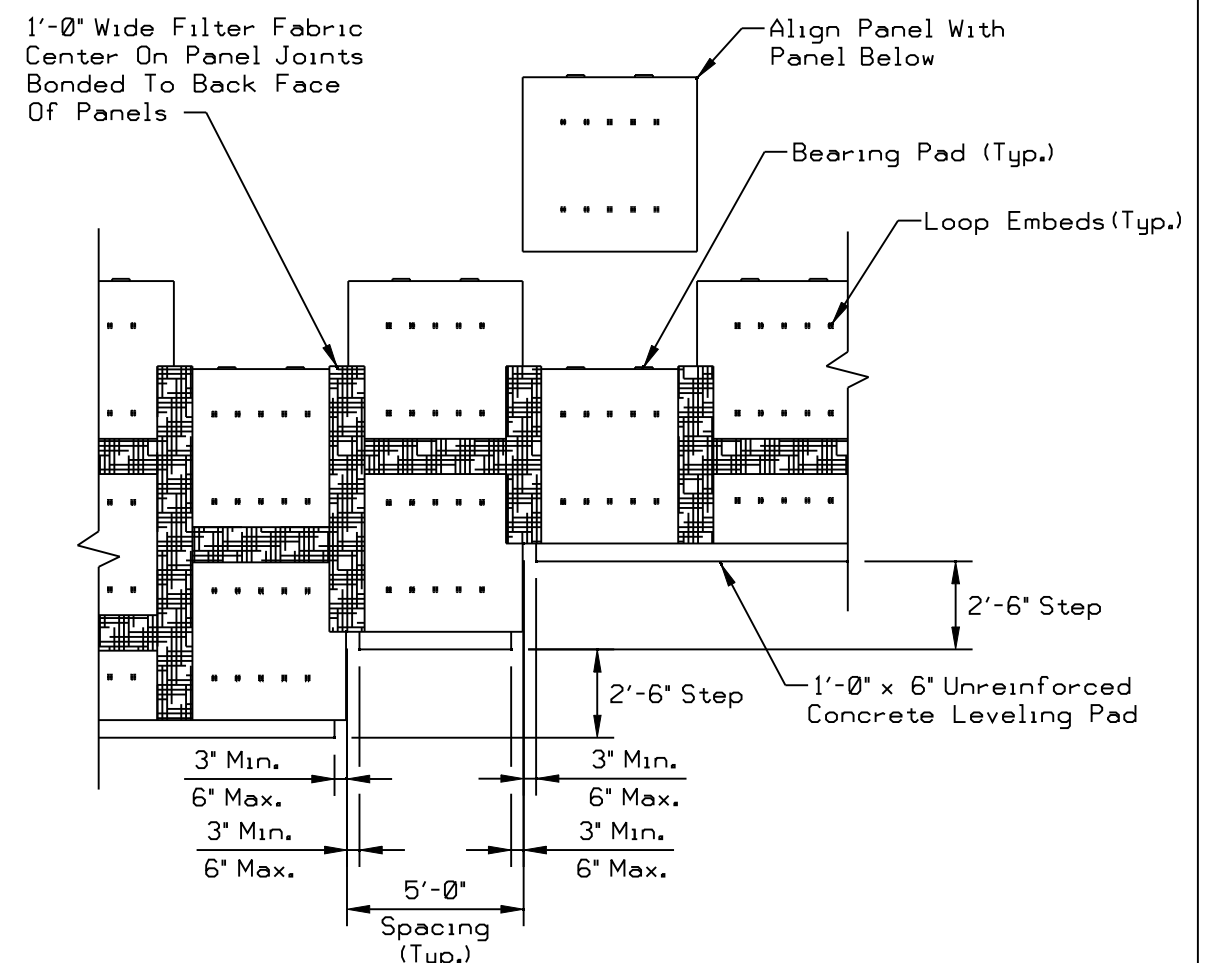
NOTE: For Example Above, Equivalent Wire Mesh Designation = 8 x 12 - W11 x W11 x 24" x "L" (LW) (CW) (LS) (CS)

SHEET LENGTH
SHEET WIDTH

REINFORCING MESH DETAIL



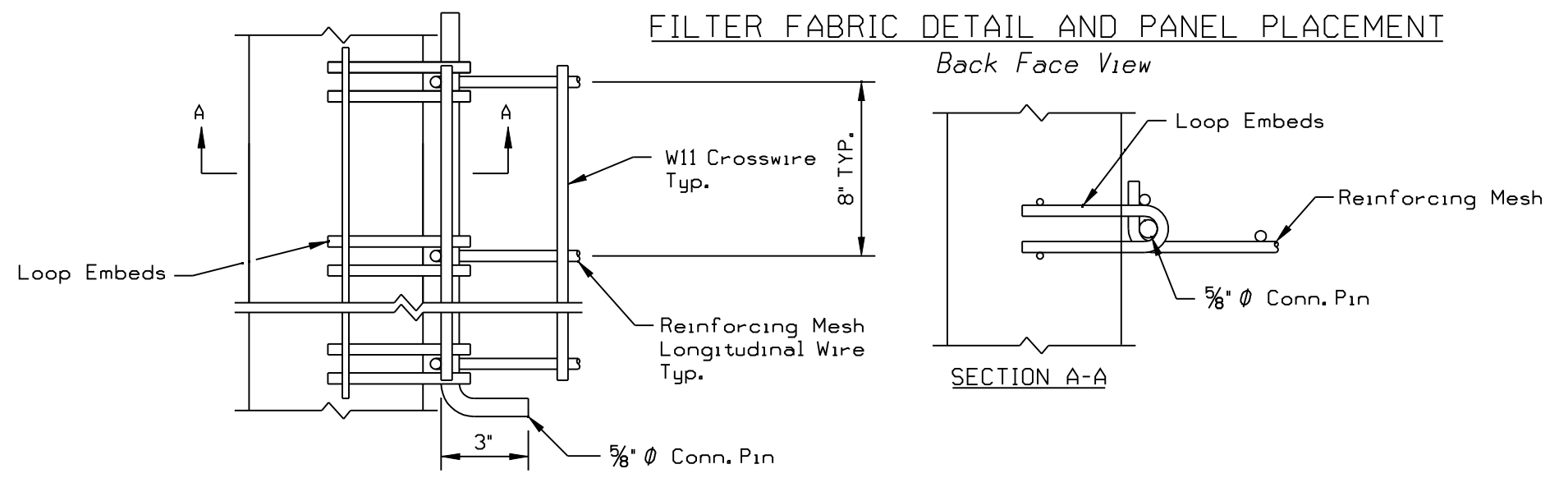
NOTE: Cross Wire Spacing Varies 6" to 3'-0" In 6" Increments.



FILTER FABRIC DETAIL AND PANEL PLACEMENT

NOTES:

1. Panel Reinforcement Bars Shall Be Deformed Billet-Steel Bars For Concrete Reinforcement Conforming To The Specification Of ASTM Designation A615, Grade 60, Including Supplementary Requirement S1 Or Low Alloy Steel Deformed Bars Conforming To The Specifications Of ASTM Designation A706.
2. W11 And W20 Steel Wire Shall Conform To The ASTM Designation A82. The Welded Wire Mat And Loop Embed Shall Be Welded In Accordance With ASTM Designation A185.
3. The Loop Embed, Reinforcing Mesh & Connector Bars Shall Be Galvanized In Accordance With ASTM Designation A123, After Bending.
4. Concrete Panels To Be Made With Class IV Concrete And Have A 28 Day Compressive Strength Of 5500psi.
5. All Panel Reinforcement Must Have A Minimum Of 2" Cover With Concrete On All Sides.
6. Concrete Panels With W11 Mesh Attached Shall Be Cast With 4 Vertical And 5 Horizontal Rebar. Panels With W20 Mesh Attached Shall Be Cast With 6 Vertical And 9 Horizontal Rebar.
7. When Cast In Place Coping Is Used In Conjunction With The MSE Wall, The Top Panels Shall Be Cast With 2 ea. #4 Dowel Bars At 2'-6" On Center, Embedded A Minimum Of 1'-3" Into The Top Surface Of The Panel For Attachment To The Coping Element.



REINFORCING MESH CONNECTOR BAR DETAIL

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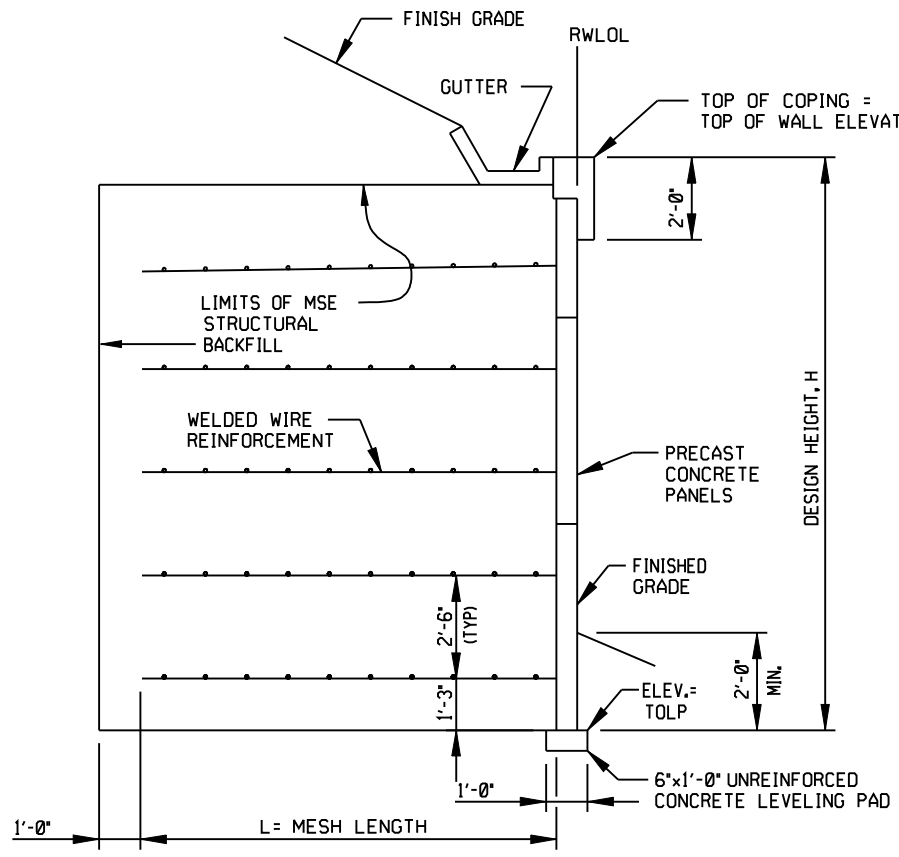
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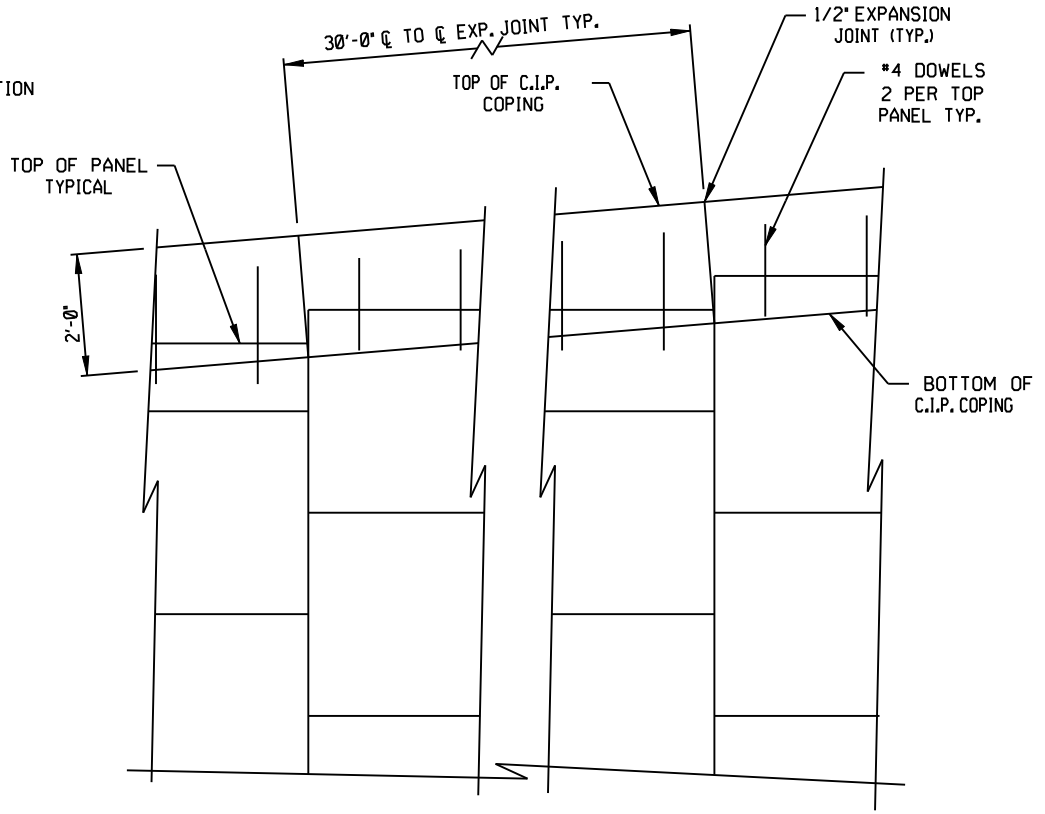
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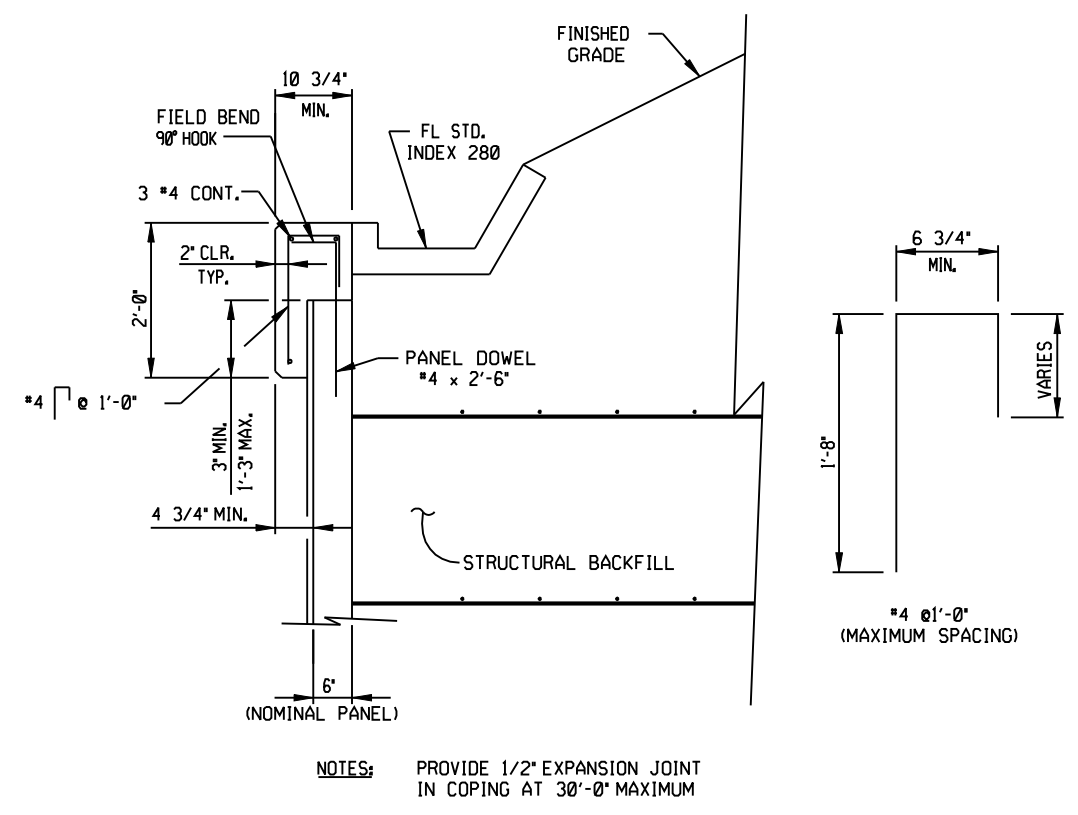
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TYPICAL SECTION AT COPING

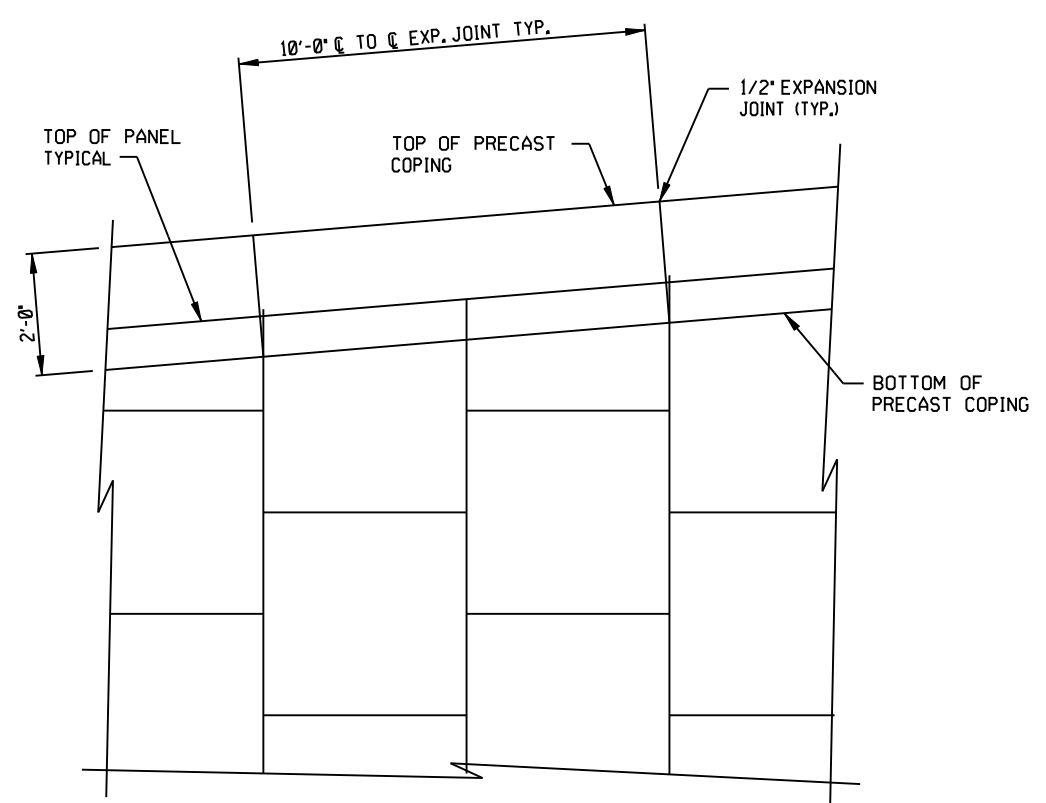


PARTIAL ELEVATION C.I.P. COPING

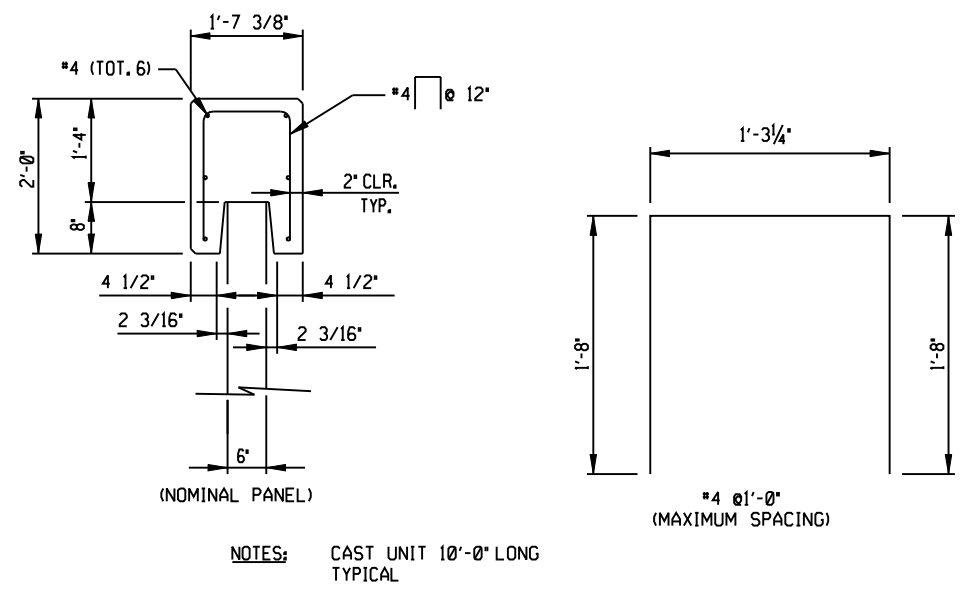


C.I.P. COPING DETAIL

NOTE:
 See Contract Plans For Details On Excavation Below The Wall and Underdrain Requirements.
 TOLP = TOP OF LEVELING PAD
 RWLOL = Retaining Wall Layout Line
 Layout Line = Front Face Of Nominal 6" Thick Panel



PARTIAL ELEVATION PRECAST COPING



PRECAST COPING DETAIL

NOTES: CAST UNIT 10'-0" LONG TYPICAL

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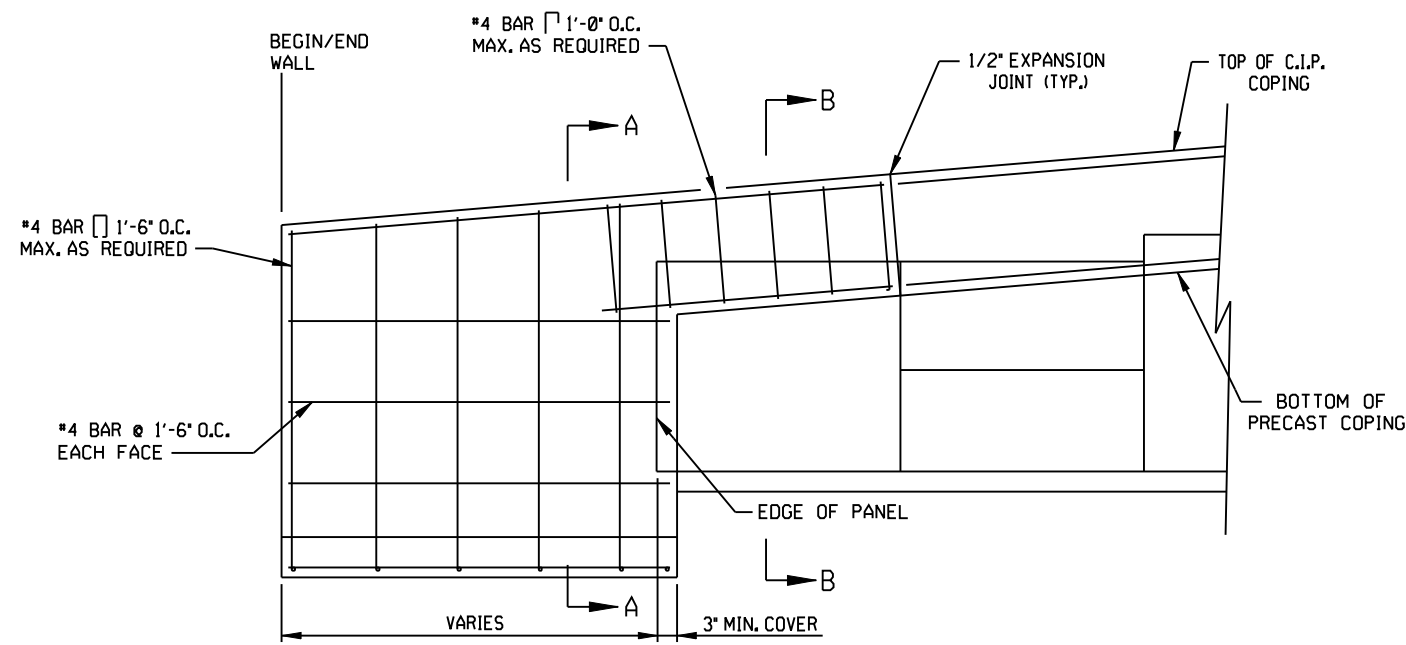
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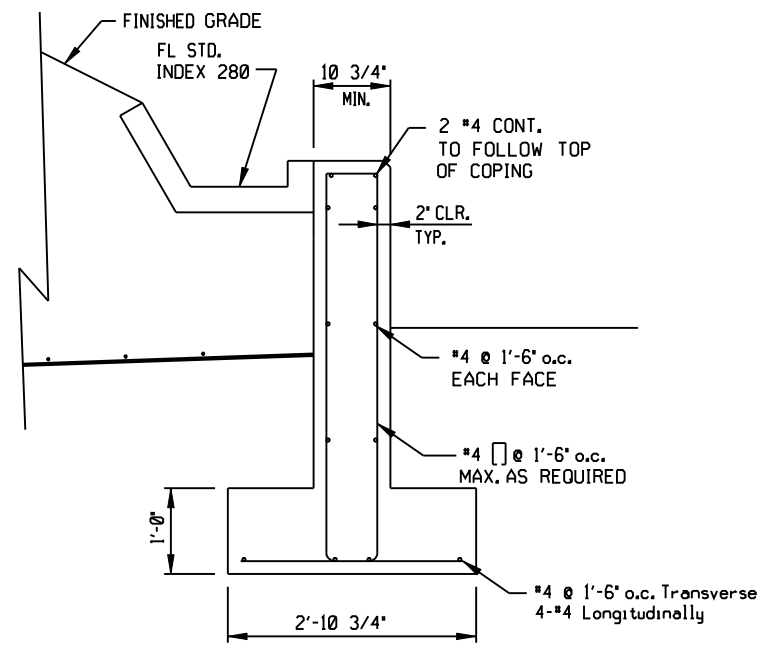
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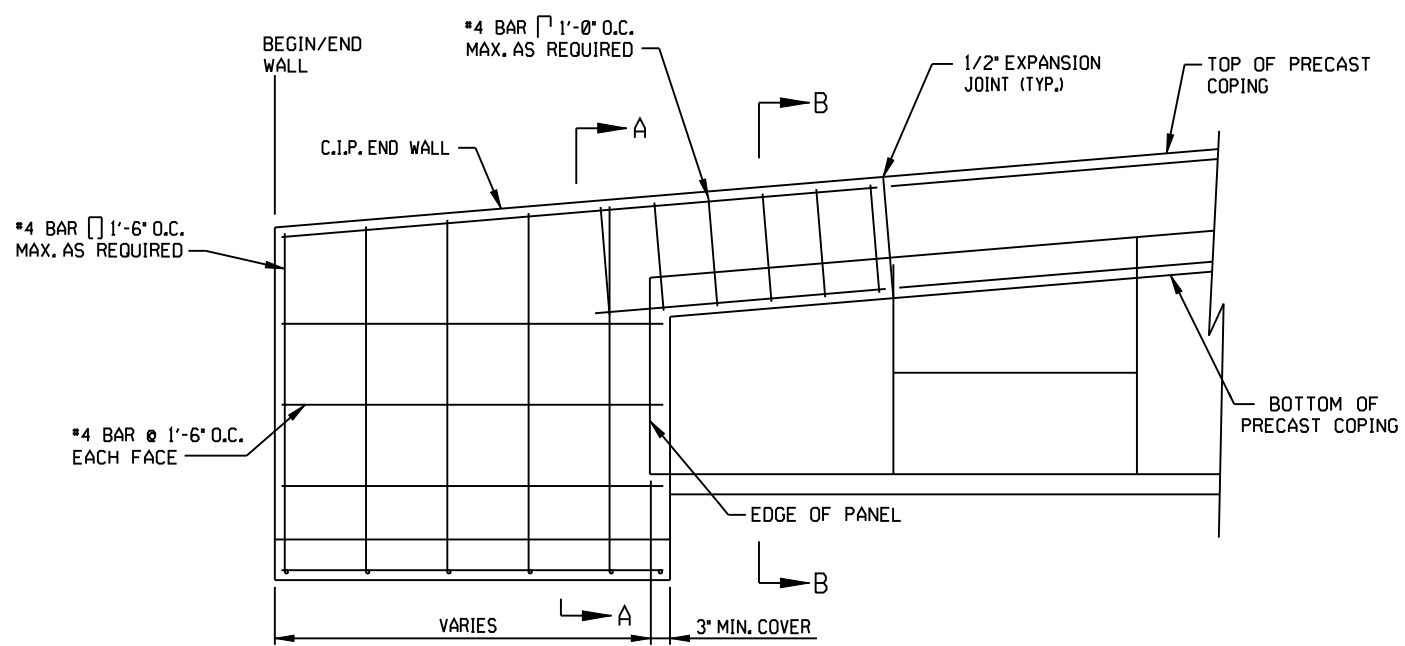
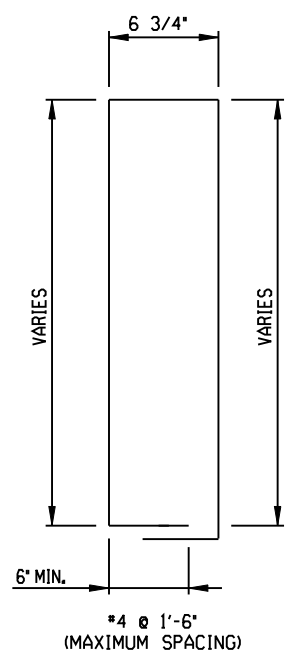
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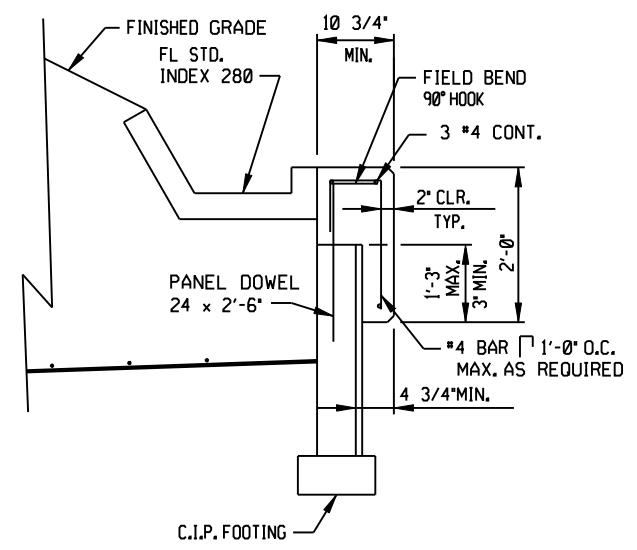
COPING END WALL AT C.I.P. COPING



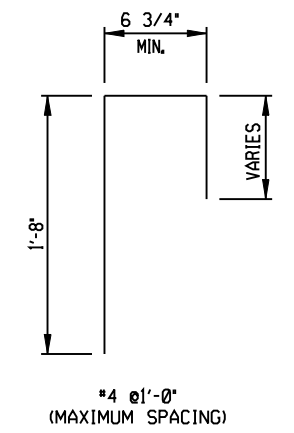
SECTION A-A



COPING END WALL AT PRECAST COPING



SECTION B-B



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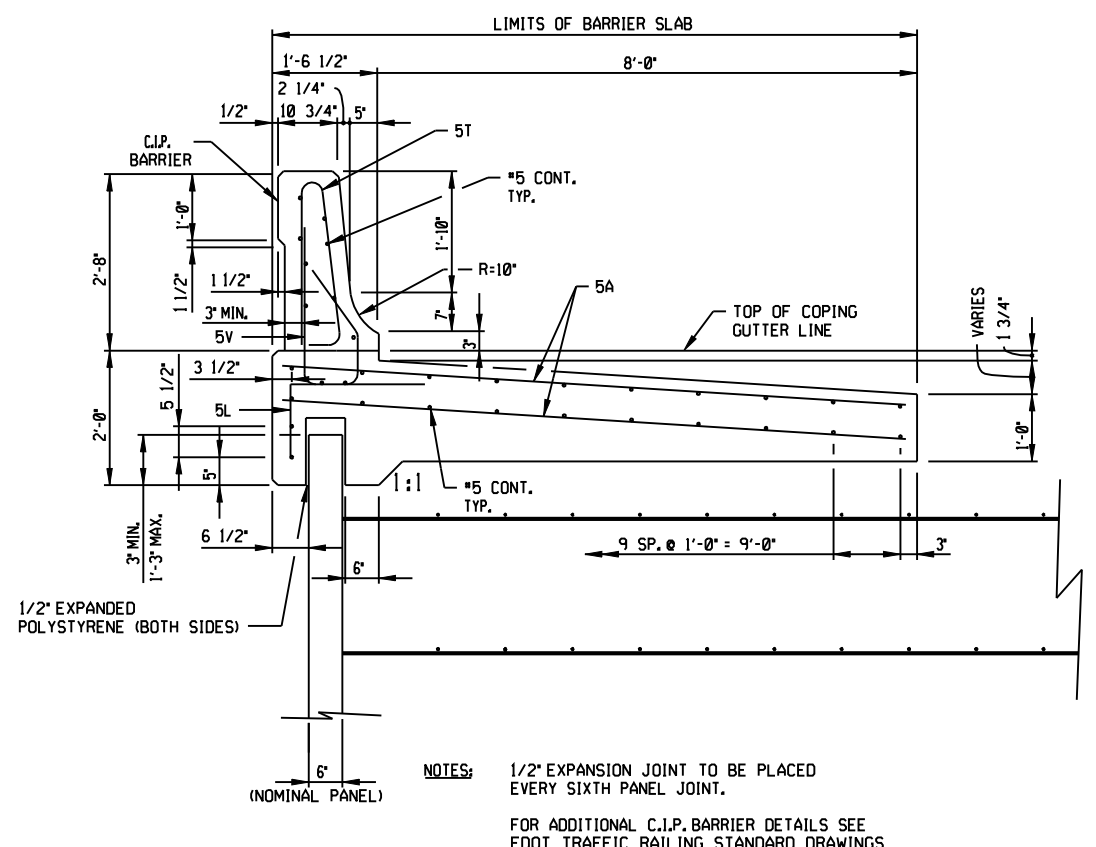
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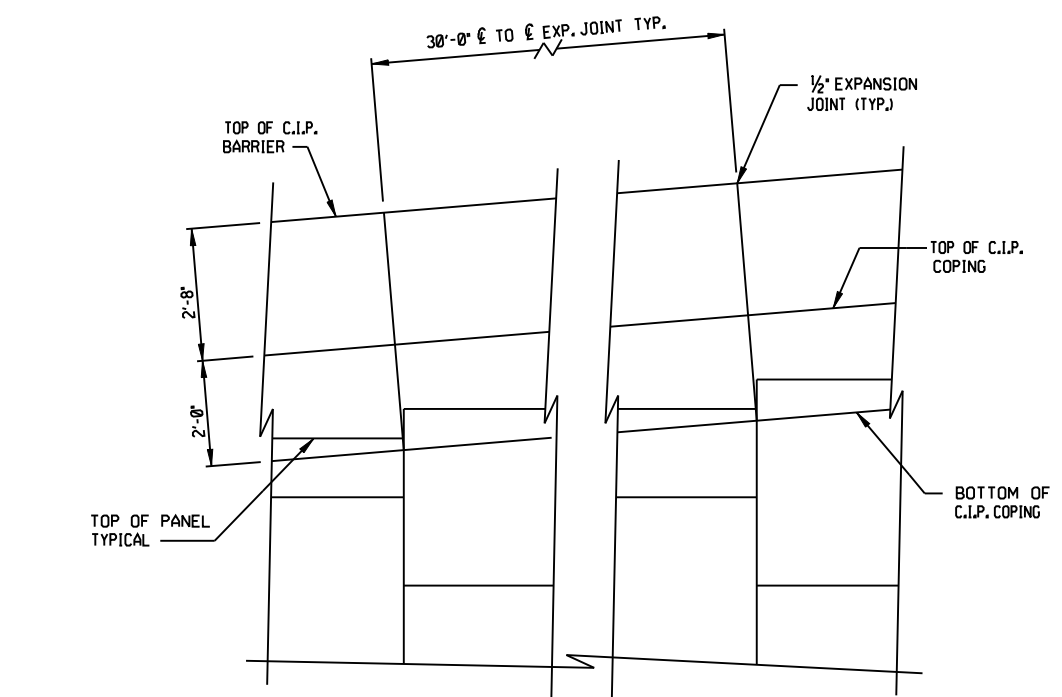
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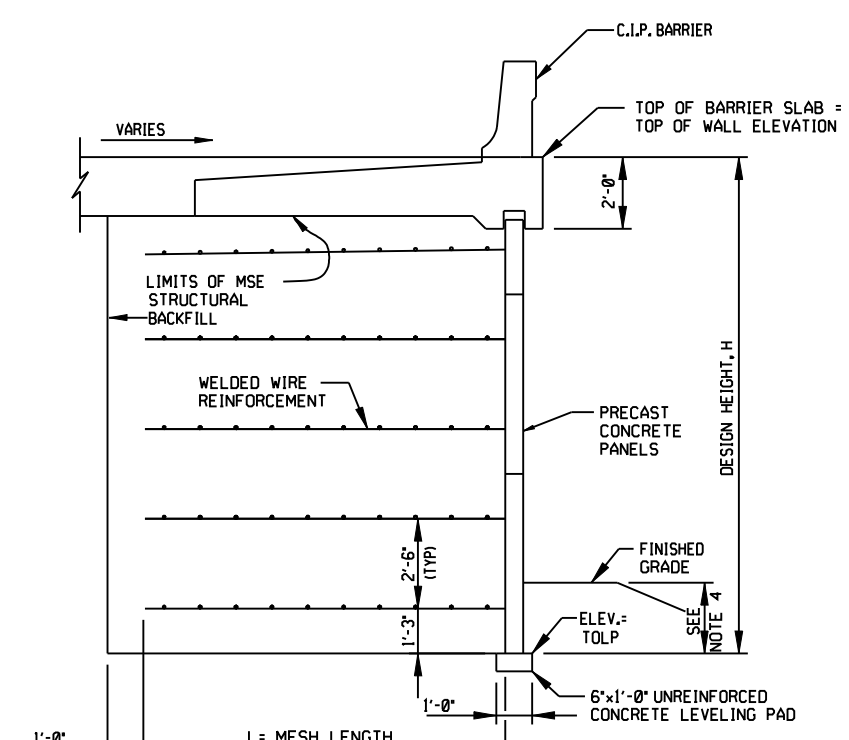
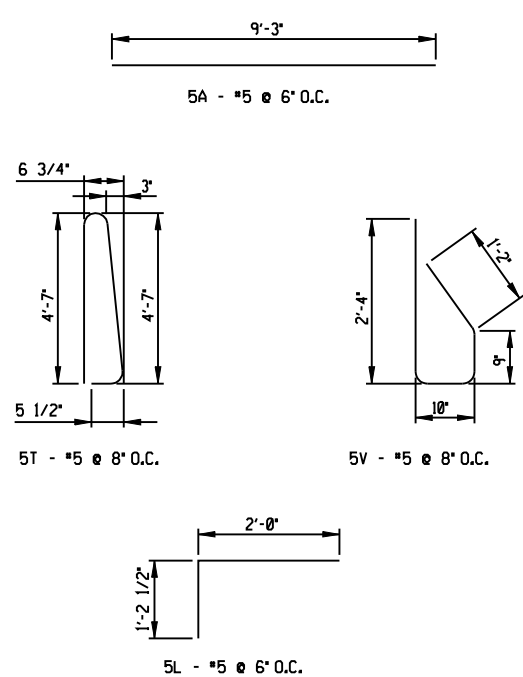
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C.I.P. BARRIER SLAB

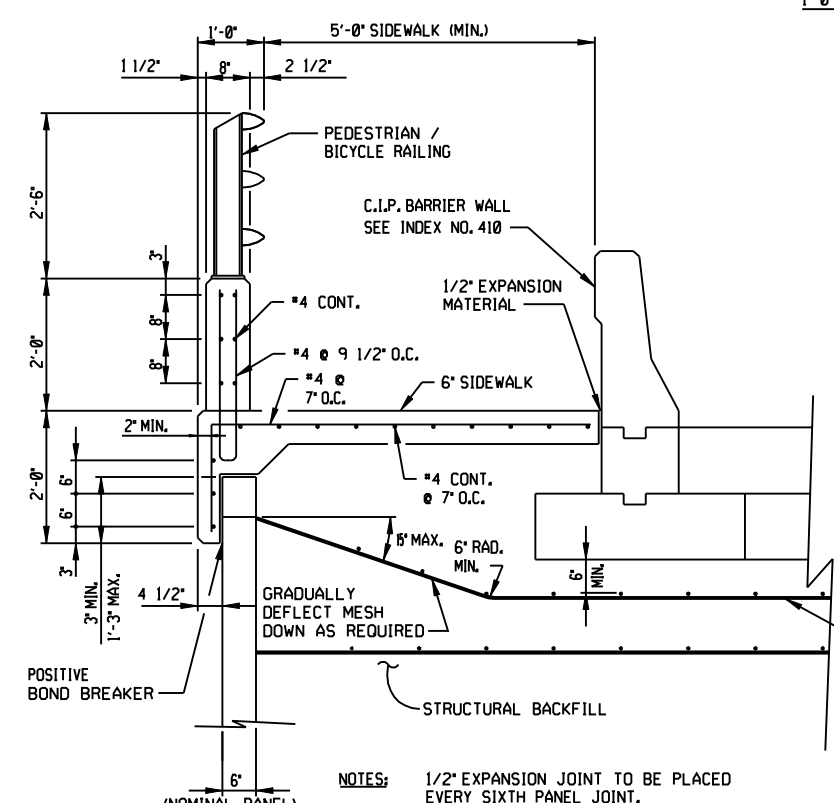


PARTIAL ELEVATION C.I.P. BARRIER



TYPICAL SECTION AT BARRIER SLAB

- NOTES:
1. See Contract Drawings For Any Additional Details Not Shown.
 2. For Leveling Pad Details See Sheet FL3.
 3. TOLP = Top Of Leveling Pad
 4. Minimum Embedment Below Finished Grade At Bottom Of Wall To Be Determined By EOR And Shown On Contract Plans. Dimensions Shall Be 2'-0" Minimum.



C.I.P. PARAPET W/ HANDRAIL

IT IS CONTRACTOR'S RESPONSIBILITY TO INSURE MESH IS PLACED BELOW THE PAVEMENT SECTION. THE CONTRACTOR IS ALSO RESPONSIBLE TO PAINT ANY DAMAGED OR CUT GALVANIZING ON THE MESH WITH ZINC RICH PAINT.

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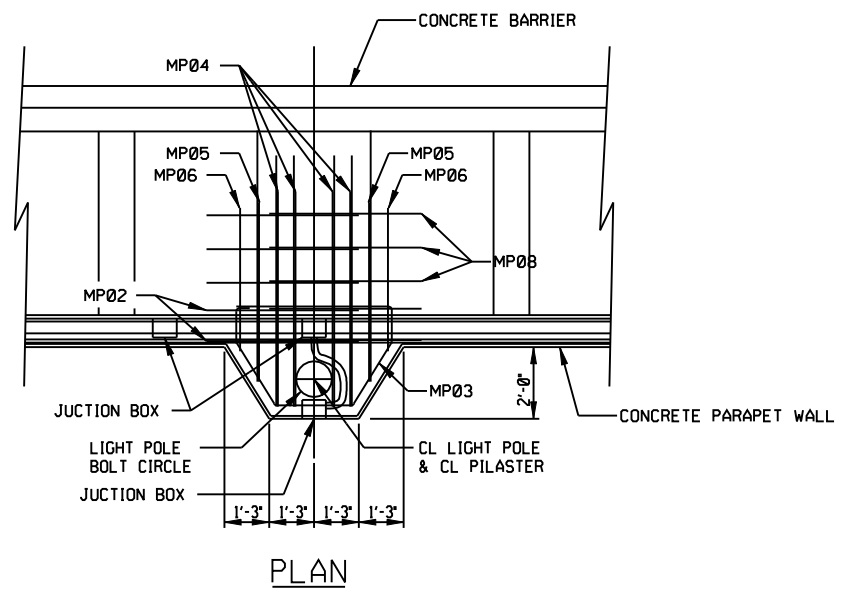
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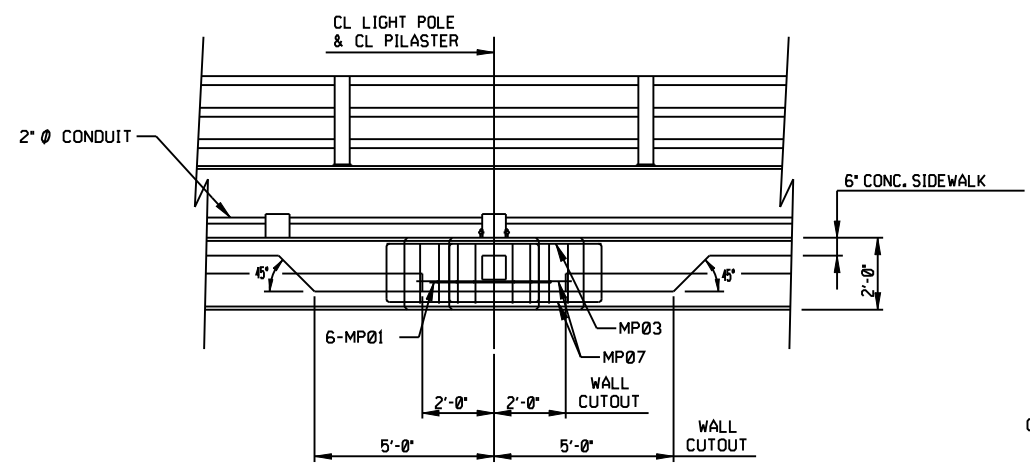
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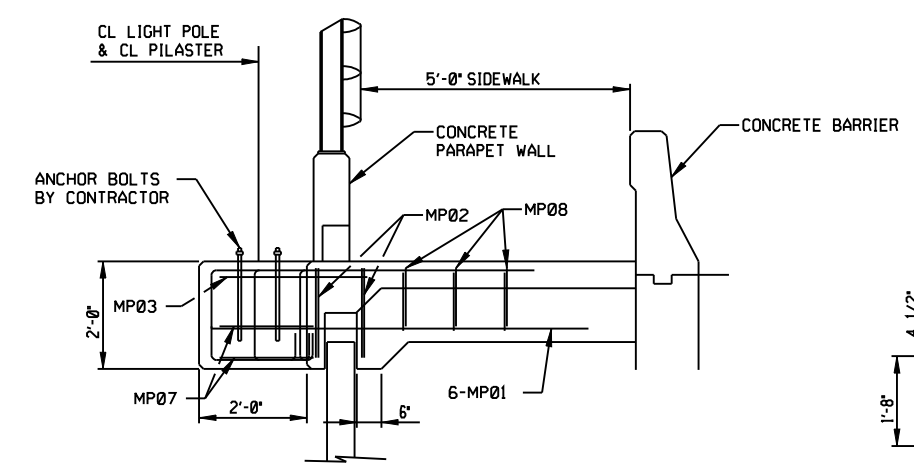
PLAN

- NOTES:**
- ADDITIONAL CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTER SHALL MEET THE SAME REQUIREMENTS AS THAT OF THE PARAPET WALL.
 - TOP OF PILASTER SHALL BE FINISHED TO A TRUE LEVEL AREA.
 - LIGHT POLE PILASTER IS DESIGNED TO RESIST WORKING LOADS (IN ANY DIRECTION) FROM THE LIGHT POLE APPLIED AT THE TOP OF THE PILASTER AS FOLLOWS:
 LONGITUDINAL MOMENT = 30,000 FT. - POUNDS
 TRANSVERSE MOMENT = 6000 FT. - POUNDS
 LONGITUDINAL SHEAR = 1000 POUNDS
 TRANSVERSE SHEAR = 200 POUNDS
 TORSION = 3,000 FT. - POUNDS
 AXIAL = 400 POUNDS
 IF THE LIGHT POLE PROVIDED APPLIES LOADS THAT ARE IN EXCESS OF THOSE SHOWN ABOVE, THE CONTRACTOR SHALL REDESIGN THE PILASTER AND SUBMIT HIS DESIGN TO THE DEPARTMENT FOR REVIEW. THE CONTRACTOR'S REDESIGN SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA QUALIFIED TO PERFORM THE WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOADS TO THE PILASTER AND THAT FIT THE REINFORCING CAGE. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DEPARTMENT FOR REVIEW AND APPROVAL SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET PRIOR TO CONSTRUCTION.

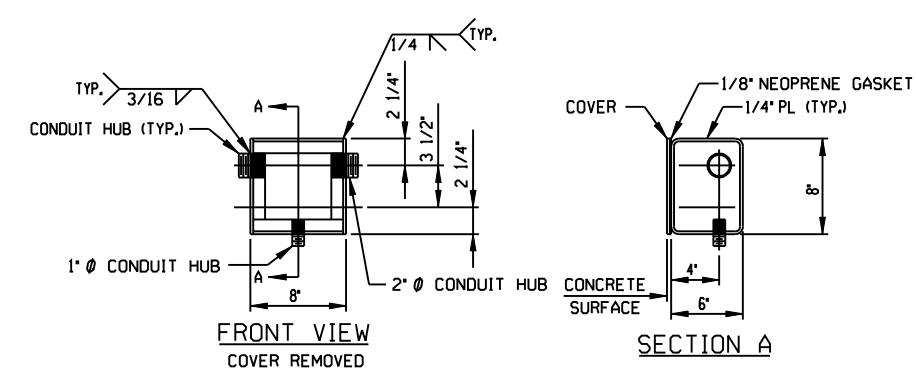
- STEEL FOR JUNCTION BOXES SHALL CONFORM WITH ASTM-A36M. THE BOXES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. IN LIEU OF STEEL BOXES THE CONTRACTOR MAY SUBMIT FOR APPROVAL MOLDED P.V.C. BOXES (SCHEDULE 80).
- ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 80 P.V.C.
- THE COST OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR LIGHT POLES.
- PAYMENT: THE COST OF ALL LABOR, CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTERS AND ALL CONDUITS, EXPANSION COUPLINGS, JUNCTION BOXES AND MISCELLANEOUS HARDWARE REQUIRED FOR COMPLETION OF THE ELECTRICAL INSTALLATION SHALL BE WITHIN THE BID PRICE FOR THE MSE WALLS.



LIGHT PILASTER ELEVATION

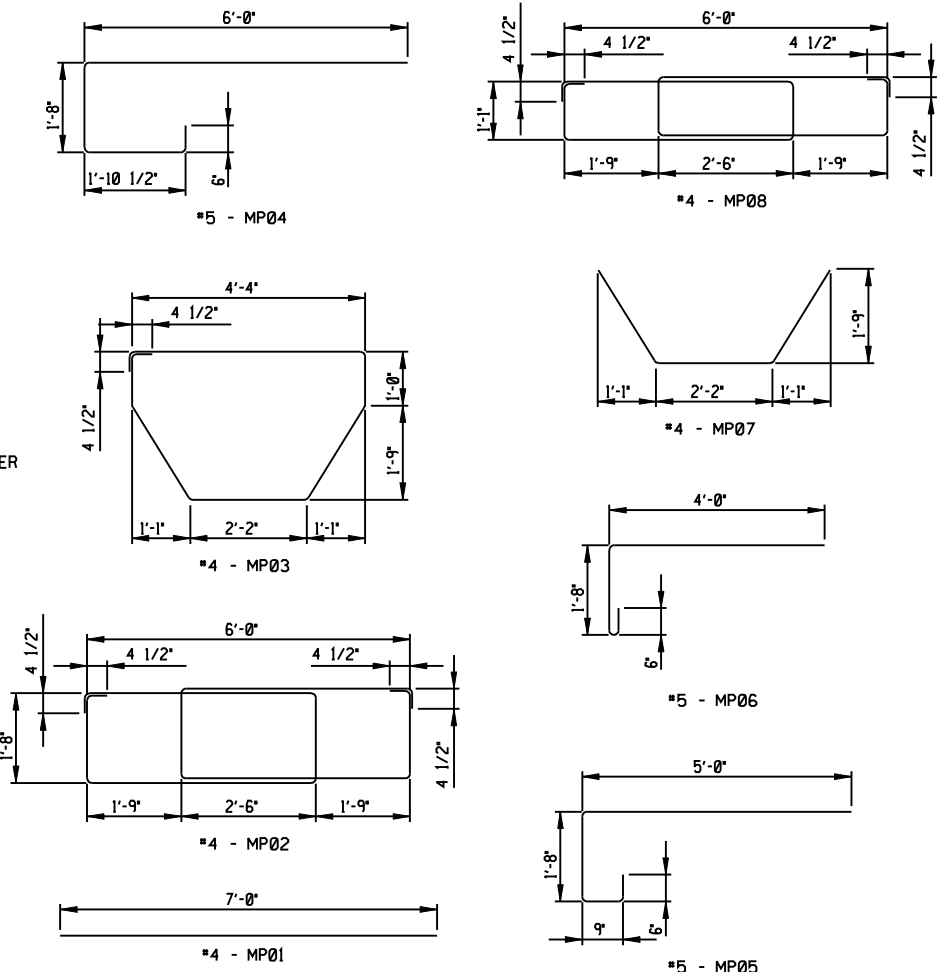


LIGHT PILASTER DETAILS



JUNCTION BOX DETAILS

JUNCTION BOX TO BE MANUFACTURED BY OTHERS



REBAR DETAILS

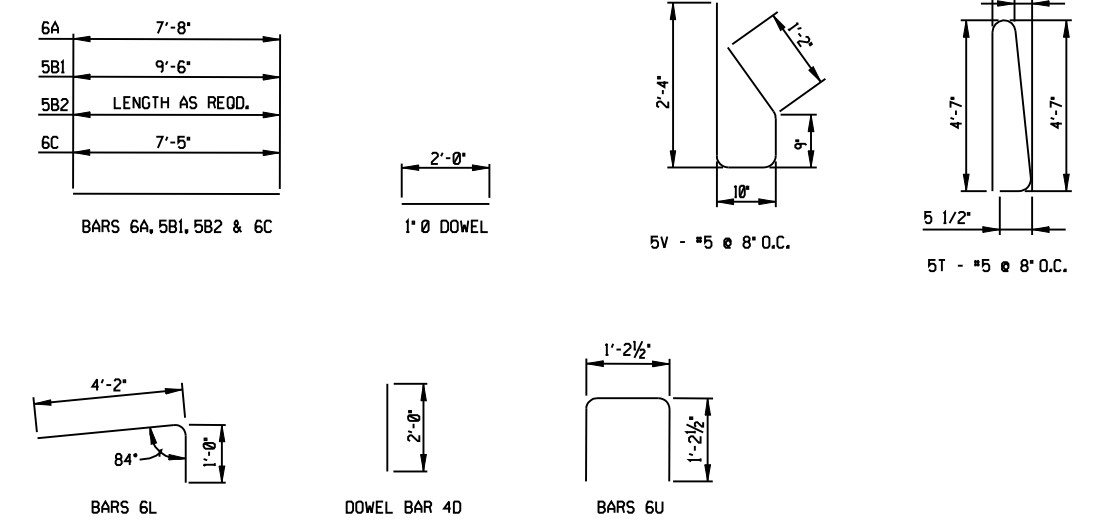
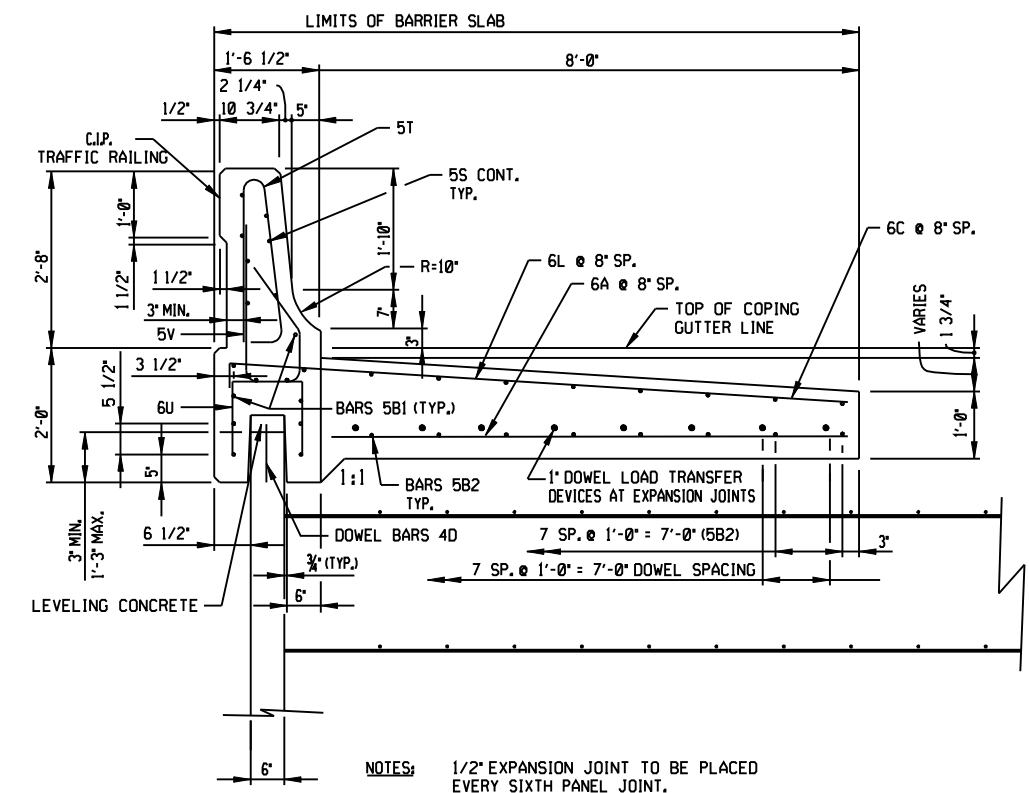
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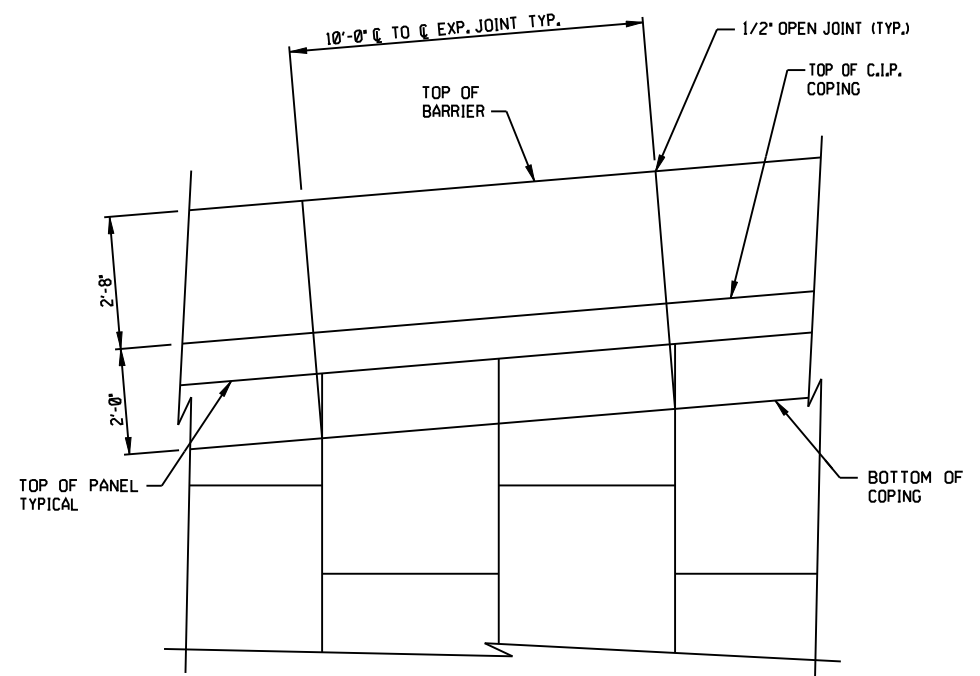
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SSL		
MSE PLUS WALL SYSTEM		
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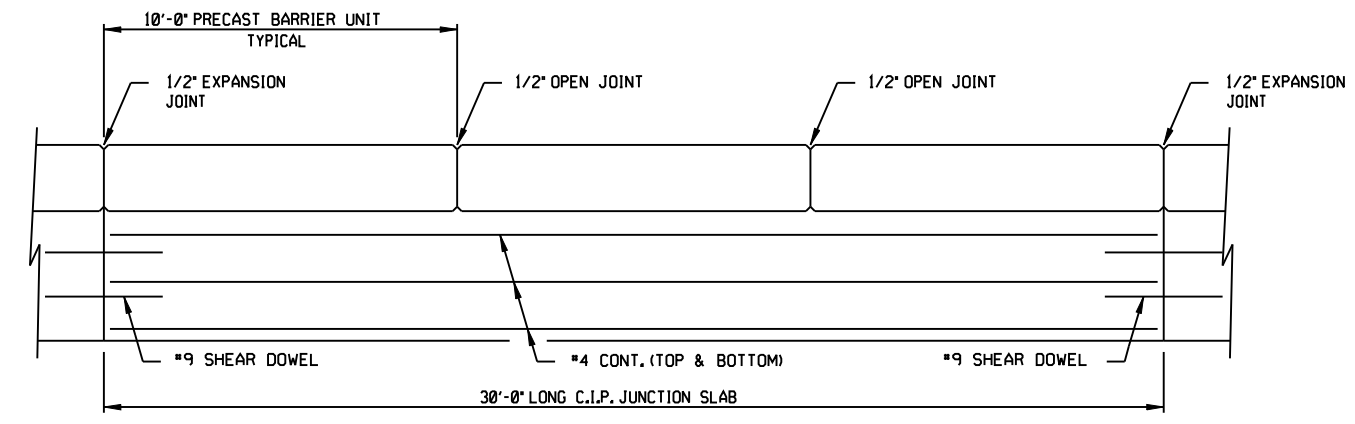


NOTES: 1/2\"/>

PRECAST BARRIER SLAB



PARTIAL ELEVATION PRECAST BARRIER



PRECAST BARRIER SLAB PLAN

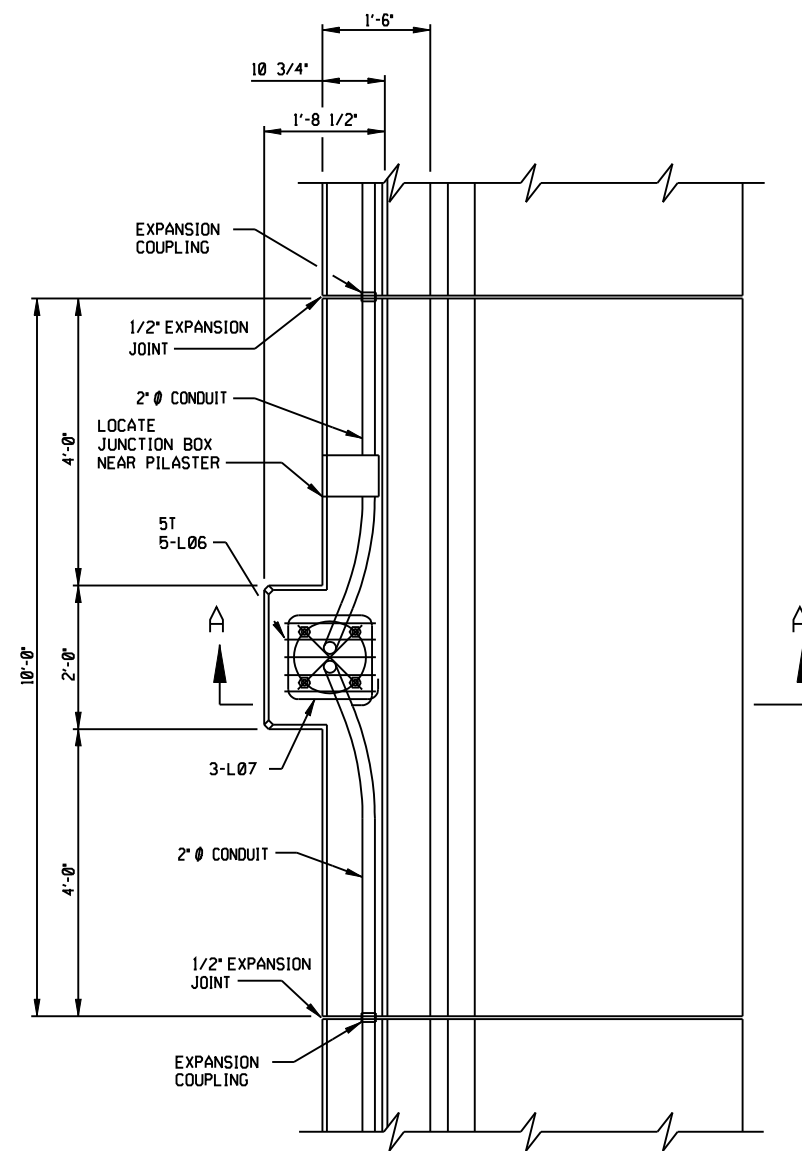
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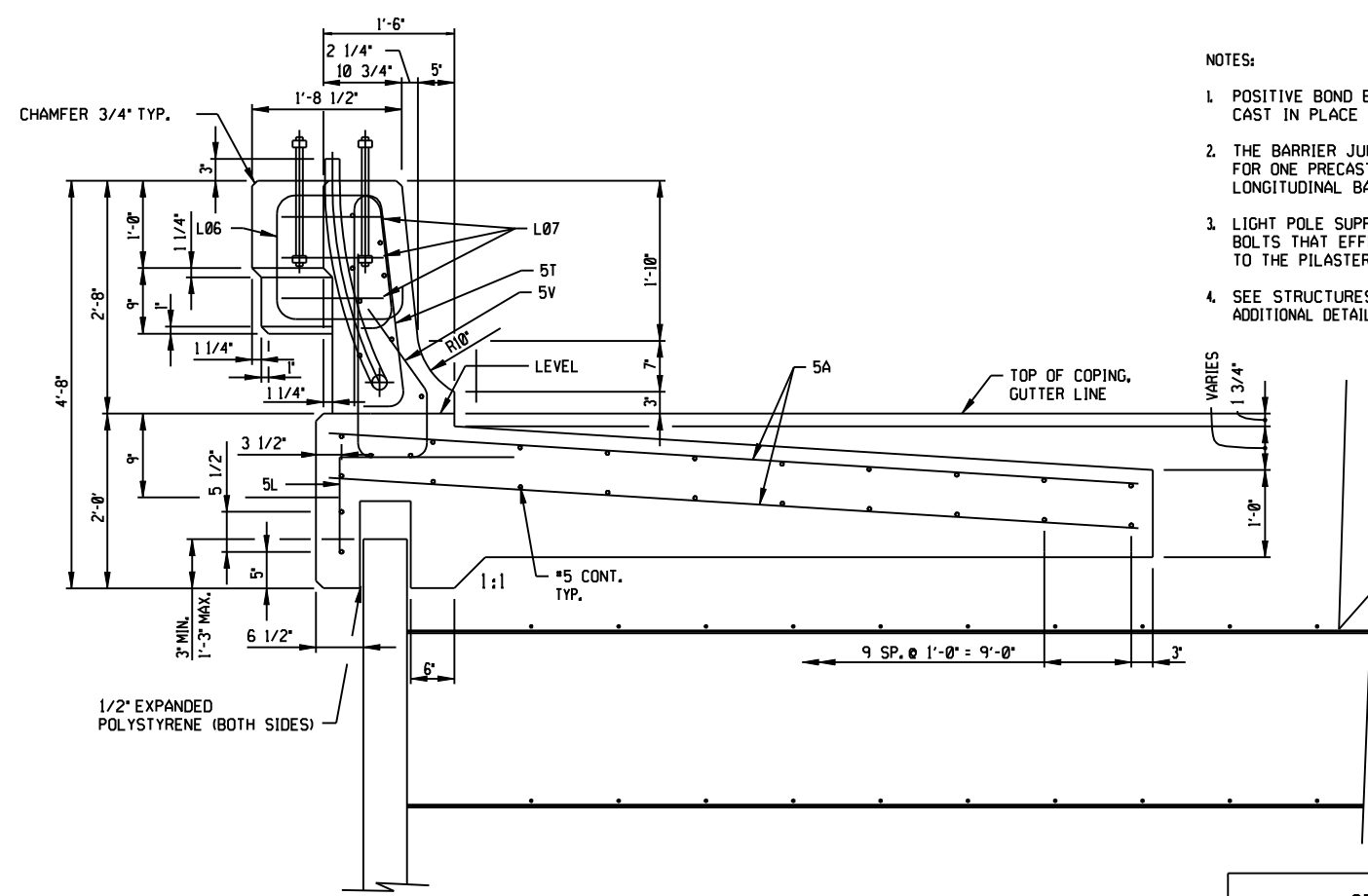
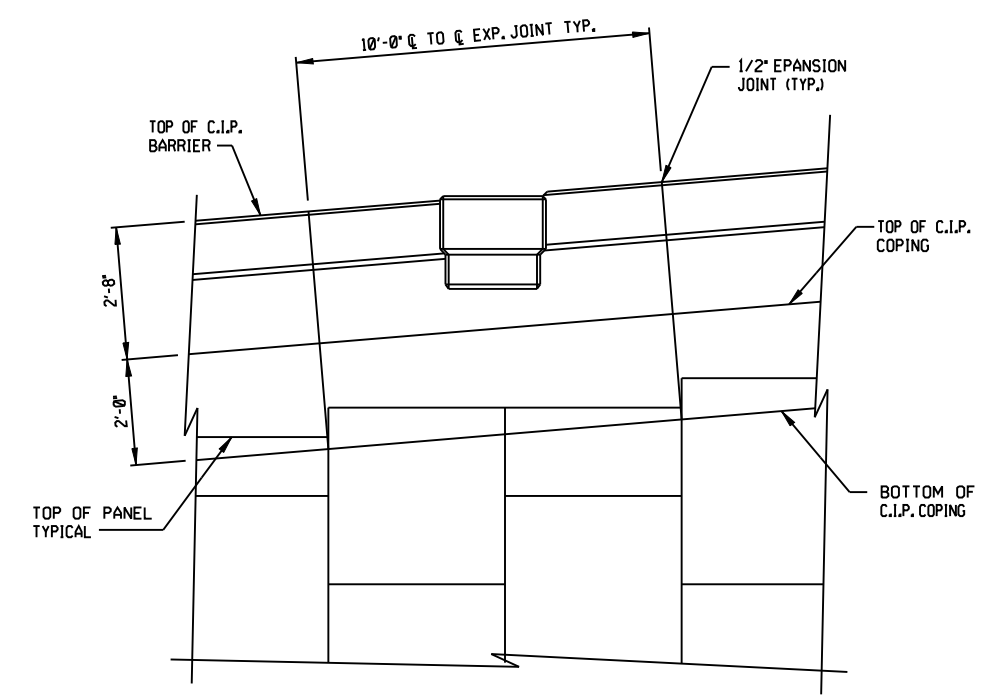
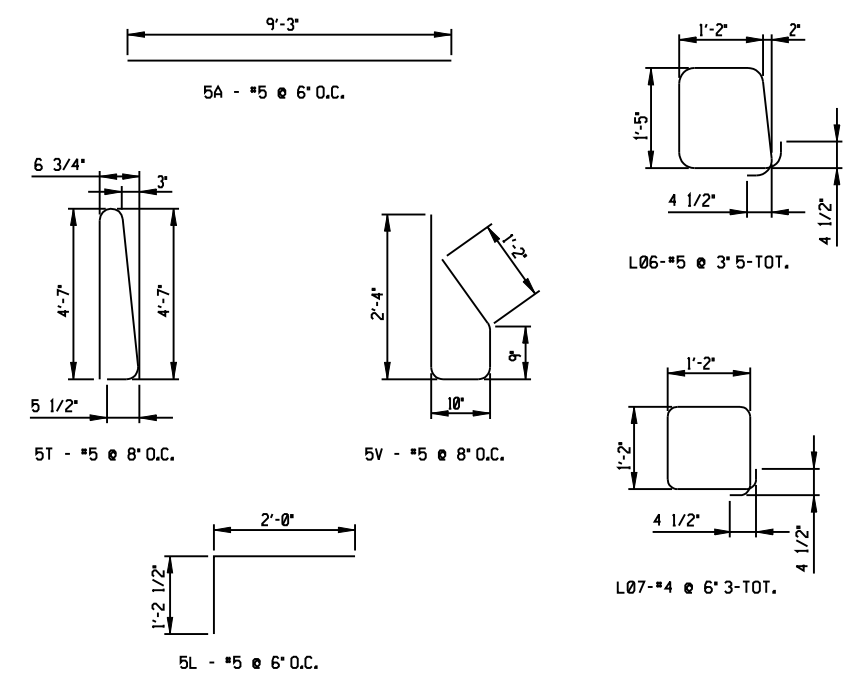
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C.I.P. LIGHT POLE
 ALL REBAR BY OTHERS
 LIGHT POLE/BARRIER COPING



NOTES:

1. POSITIVE BOND BREAKER SHALL BE PROVIDED BETWEEN CAST IN PLACE CONCRETE AND PRECAST CONCRETE PANELS.
2. THE BARRIER JUNCTION SLAB SHALL HAVE THESE DIMENSIONS FOR ONE PRECAST UNIT EITHER SIDE OF LIGHT POLE BARRIER, LONGITUDINAL BARS SHALL BE AS SHOWN.
3. LIGHT POLE SUPPLIER IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOADS TO THE PILASTER AND FIT THE REINFORCING CAGE.
4. SEE STRUCTURES STANDARD DRAWINGS FOR ADDITIONAL DETAILS.

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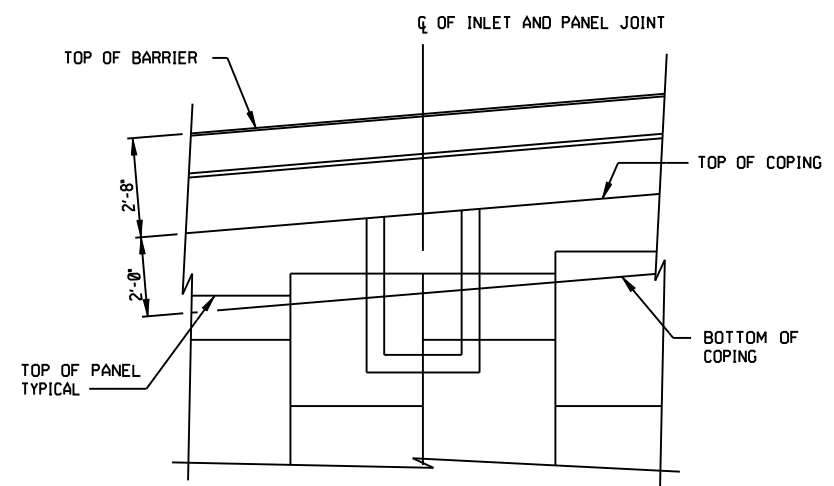
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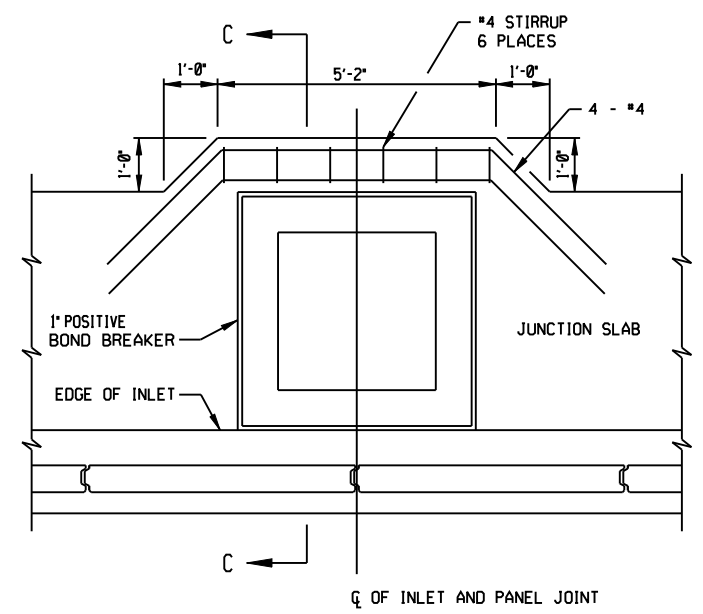
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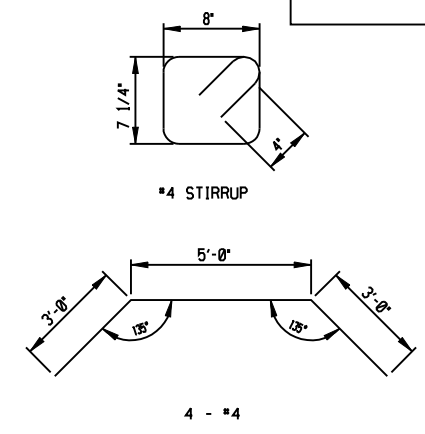
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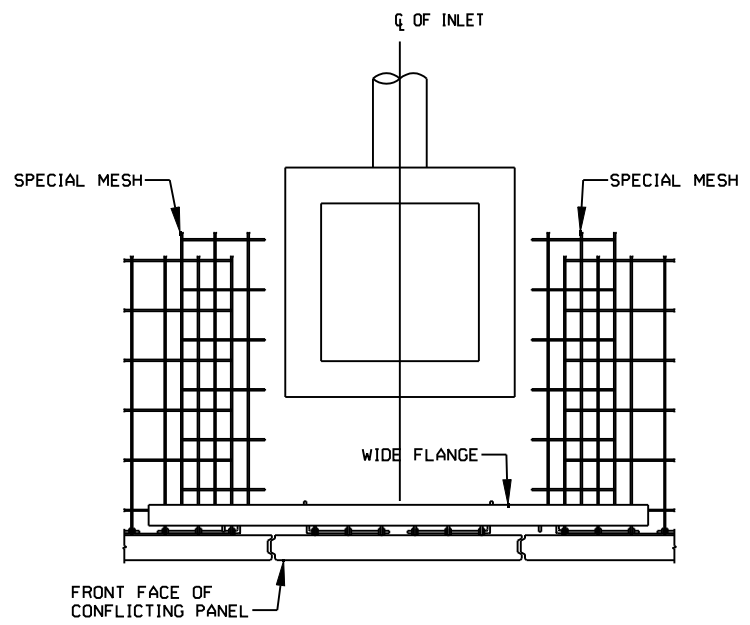
PARTIAL ELEVATION AT DRAINAGE INLET



PARTIAL PLAN - JUNCTION SLAB AROUND INLET



NOTES:
 OBSTRUCTION SHALL BE CONSTRUCTED BEFORE WALL INSTALLATION OR, VOID FORMER SHALL BE INSTALLED DURING BACKFILL PLACEMENT. VOID FORMER NOT SUPPLIED BY SSL.
 ALL OBSTRUCTIONS TO BE CONSTRUCTED OR PLACED PRIOR TO ANY CAST-IN-PLACE BARRIER OR COPING IS POURED.
 DAMAGED GALV. SHALL BE COATED WITH ZINC RICH PAINT.
 REVISED MESH TO BE SHOWN ON APPROVED SHOP DRAWINGS.

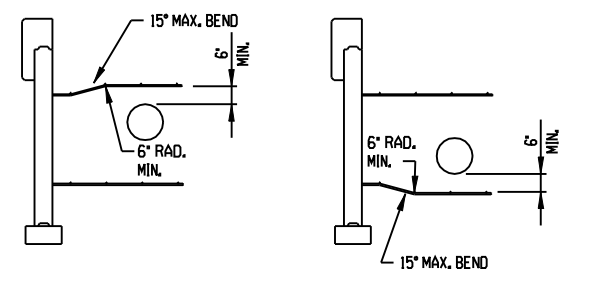


DRAINAGE INLET OBSTRUCTION DETAILS

NOTE:
 4" MIN. BACKFILL SHALL BE PLACED BETWEEN MESH CONNECTED TO PANELS AND THE STRUCTURAL FRAME.
 SEE "END BENT AND CORNER DETAILS 2 OF 2" FOR STRUCTURAL FRAME DETAILS

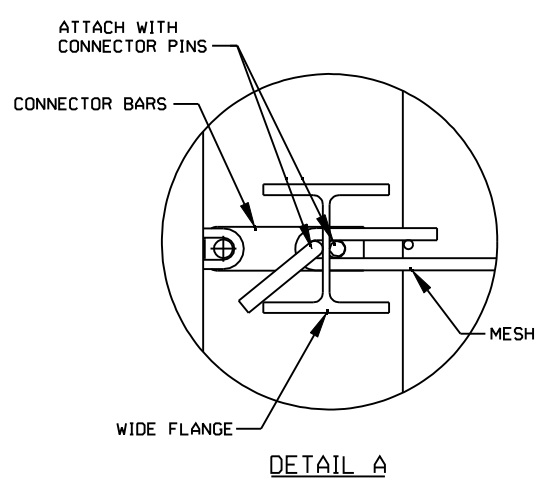
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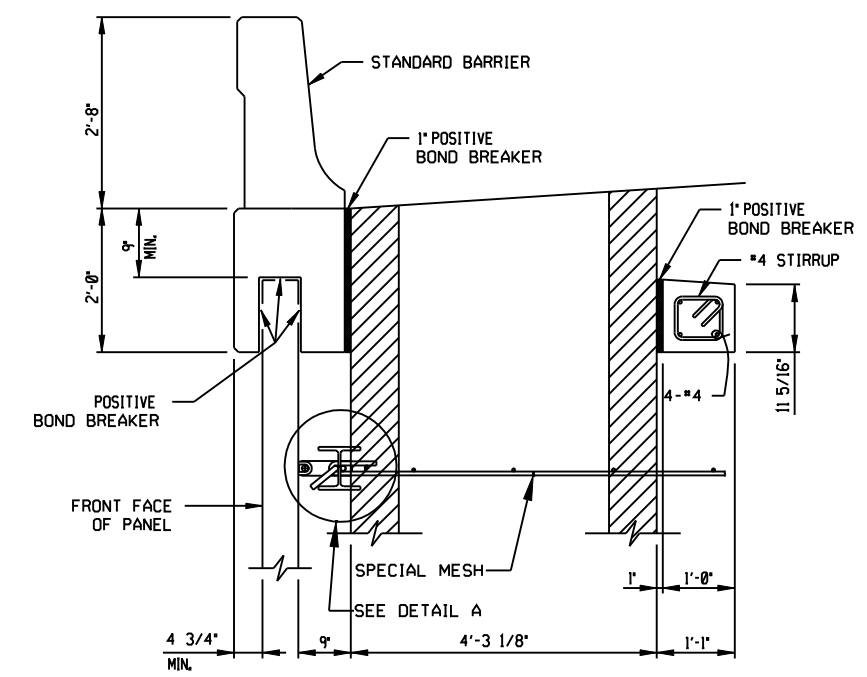


OBSTRUCTION DETAIL (HORIZONTAL)

MESH IS NOT TO BE BENT WITH LESS THAN A 6" RADIUS TO AVOID DAMAGE TO GALVANIZING.



DETAIL A



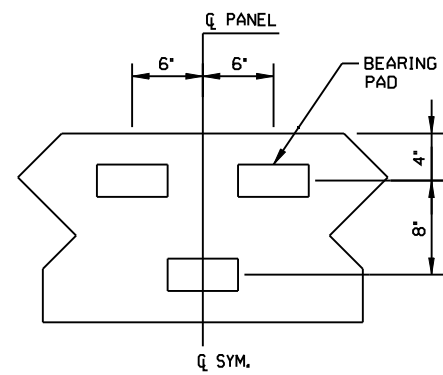
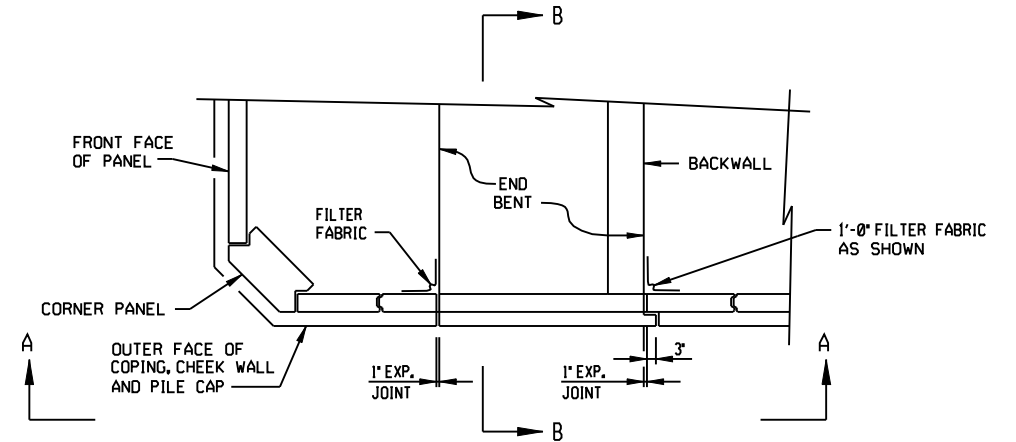
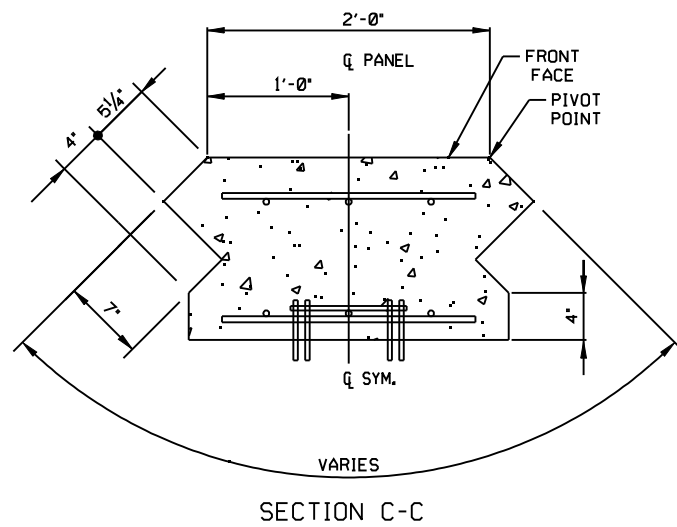
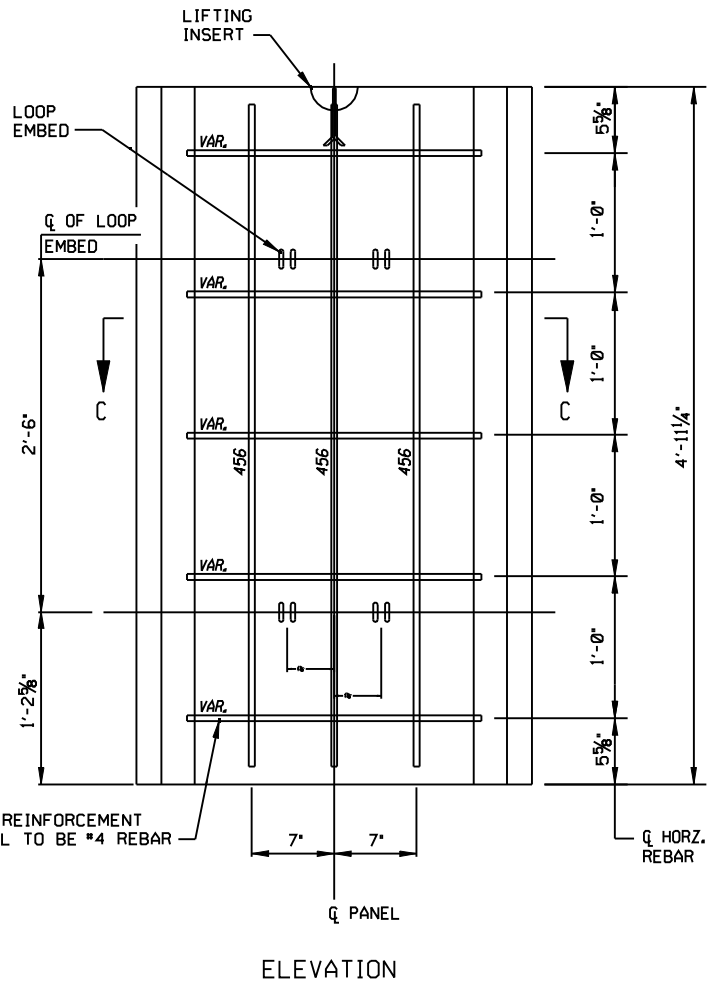
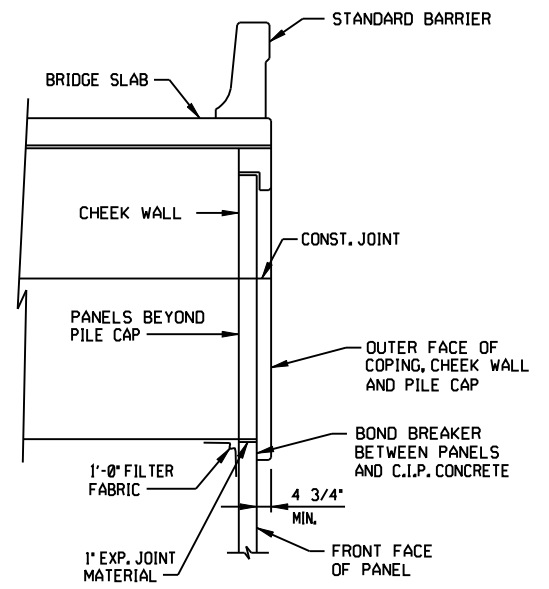
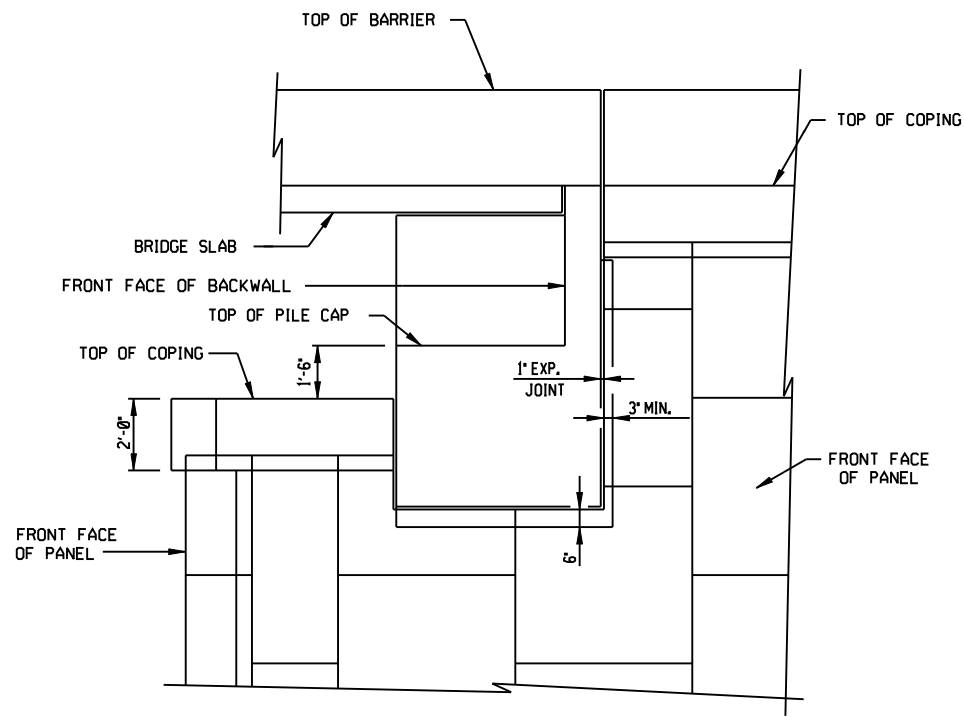
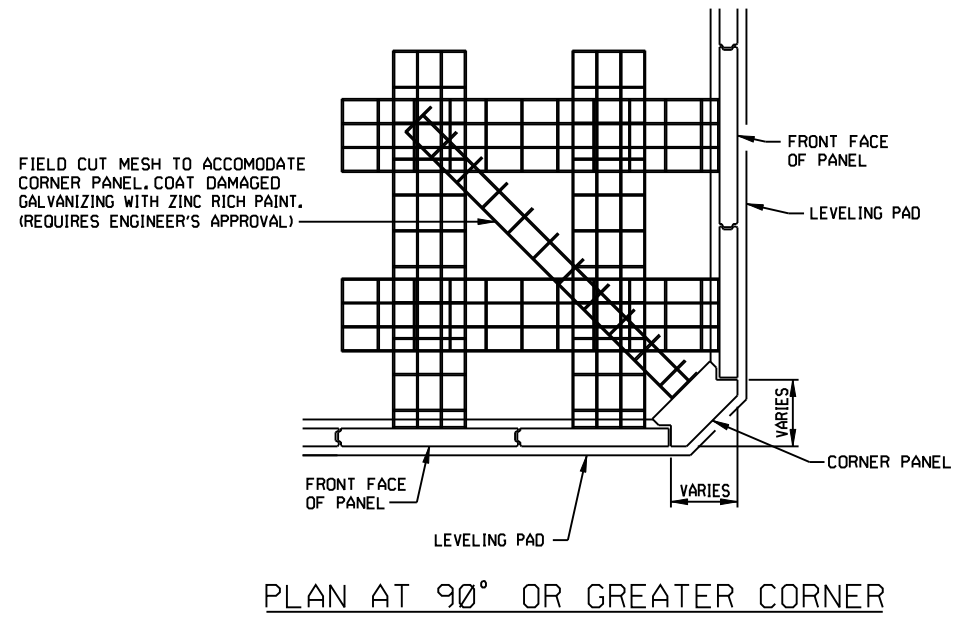
SECTION C-C

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RETAINING WALL SYSTEMS		
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CORNER PANEL DETAILS

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INTERIM STANDARD

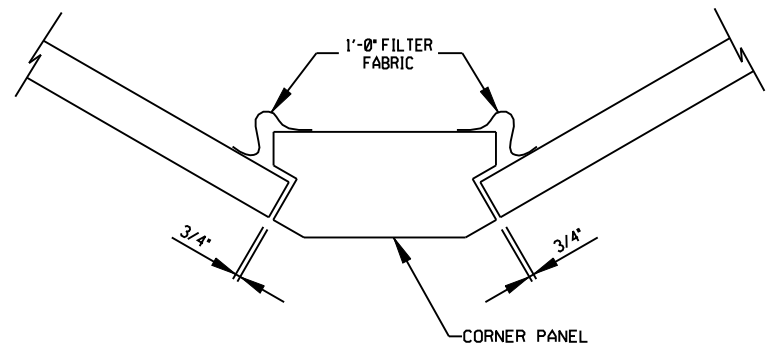
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State Structures Design Engineer

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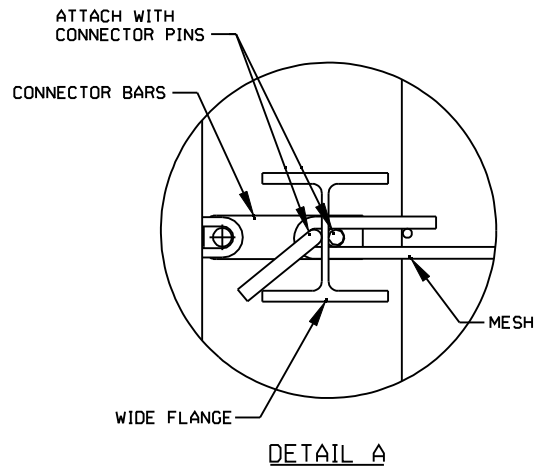
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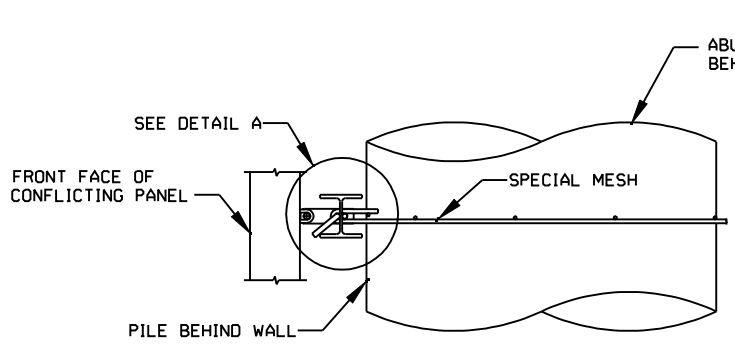
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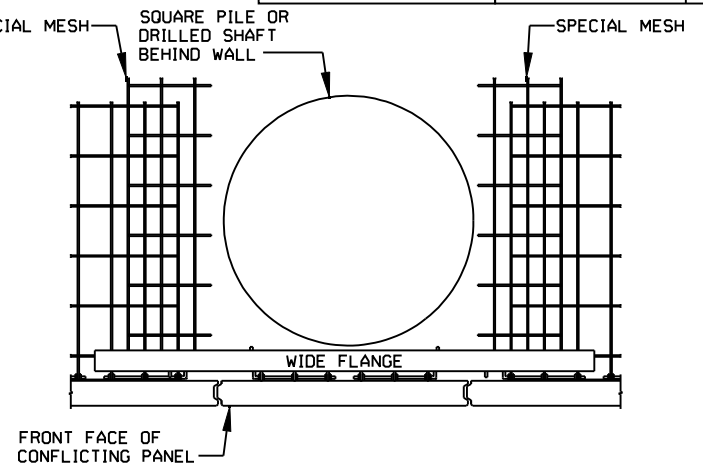
TYPICAL CORNER DETAIL



DETAIL A



STRUCTURAL FRAME SECTION



STRUCTURAL FRAME

NOTE:

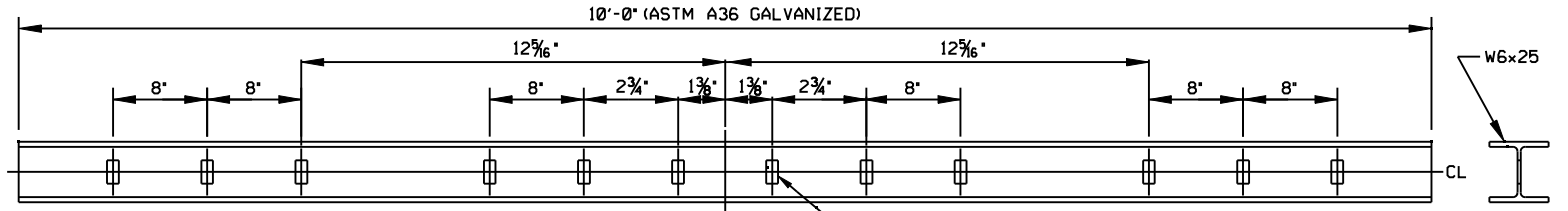
4" MIN. BACKFILL SHALL BE PLACED BETWEEN MESH CONNECTED TO PANELS AND THE STRUCTURAL FRAME.

ABUTMENT PILE OBSTRUCTION DETAILS

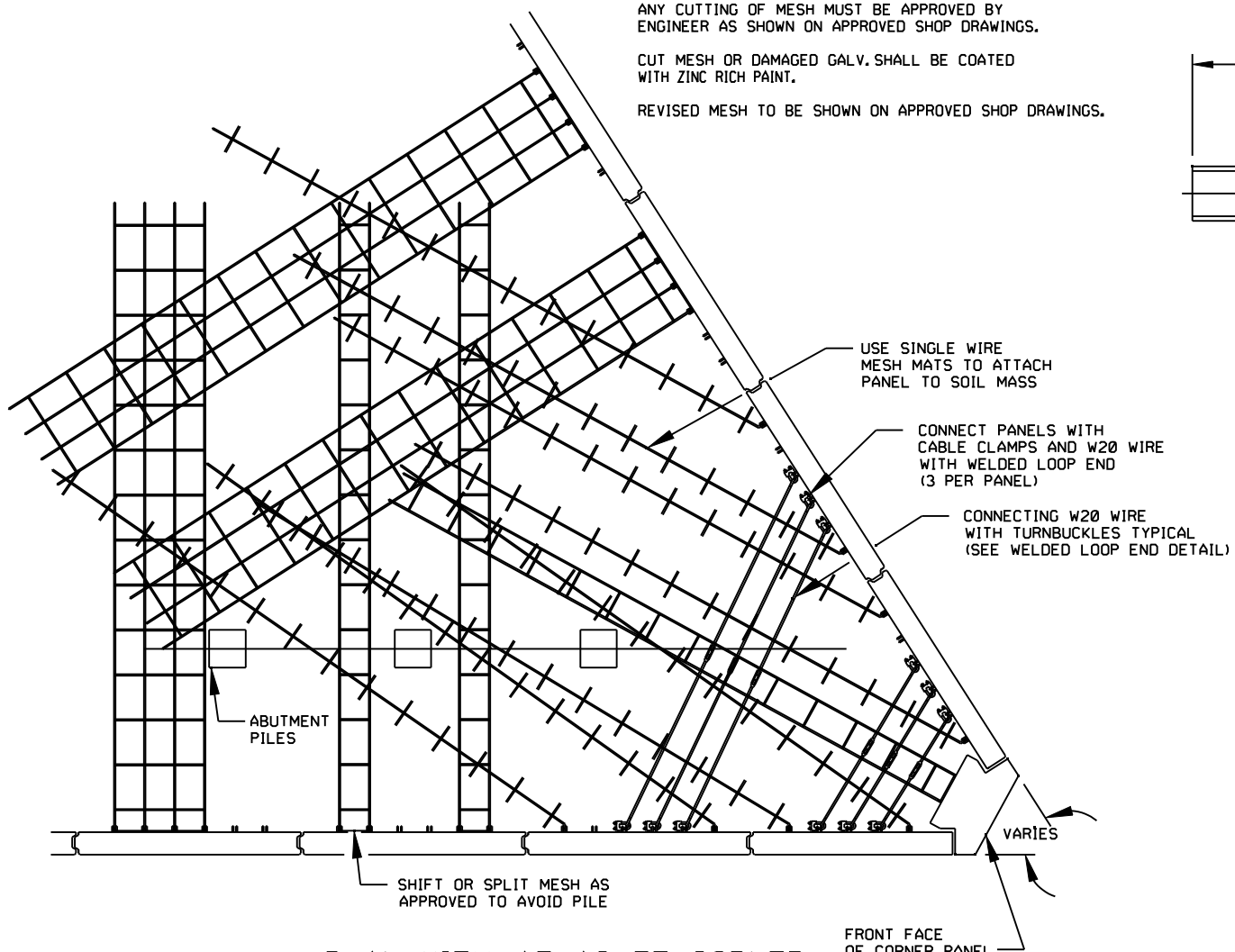
FOR ABUTMENT DRILL SHAFTS AND SQUARE PILES THAT ARE 36" IN DIAMETER OR LARGER

NOTES:

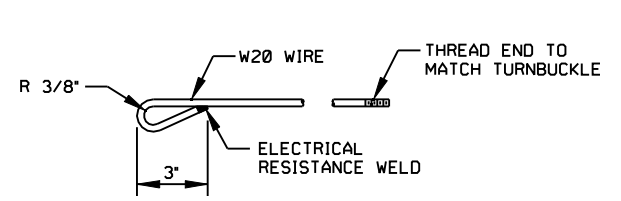
- SEE APPROVED SHOP DRAWINGS FOR SPECIFIC CORNER PANEL DETAILS AND CONNECTING ROD DETAILS.
- ANY CUTTING OF MESH MUST BE APPROVED BY ENGINEER AS SHOWN ON APPROVED SHOP DRAWINGS.
- CUT MESH OR DAMAGED GALV. SHALL BE COATED WITH ZINC RICH PAINT.
- REVISED MESH TO BE SHOWN ON APPROVED SHOP DRAWINGS.



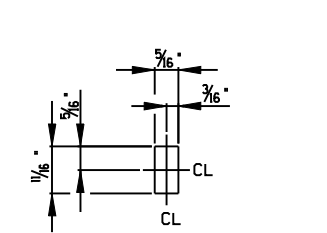
SPLICE FLANGE



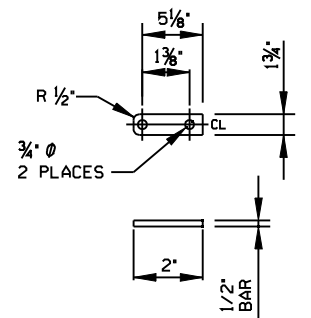
PLAN VIEW AT ACUTE CORNER



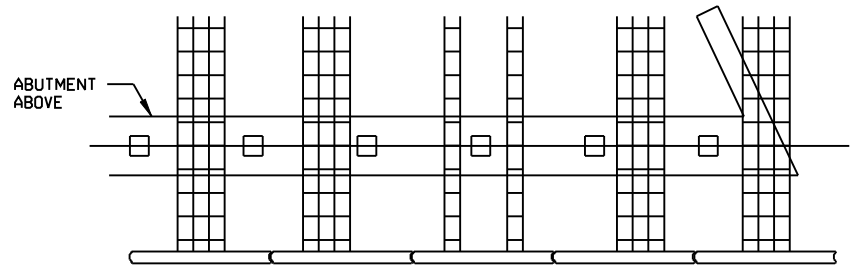
WELDED LOOP END DETAIL



MESH SLOT DETAIL



CONNECTOR BAR
ASTM A36 GALVANIZED



PLAN VIEW AT PILE BENT

FOR BENT DRILL SHAFTS THAT ARE LESS THAN 36" IN DIAMETER AND 18" AND 24" AND SQUARE PILES

LEGEND

- L = SHIFT MESH TO THE LEFT TO AVOID PILE
- R = SHIFT MESH TO THE RIGHT TO AVOID PILE
- S = SPLIT MESH AND SHIFT TO THE OUTSIDE TO AVOID PILE

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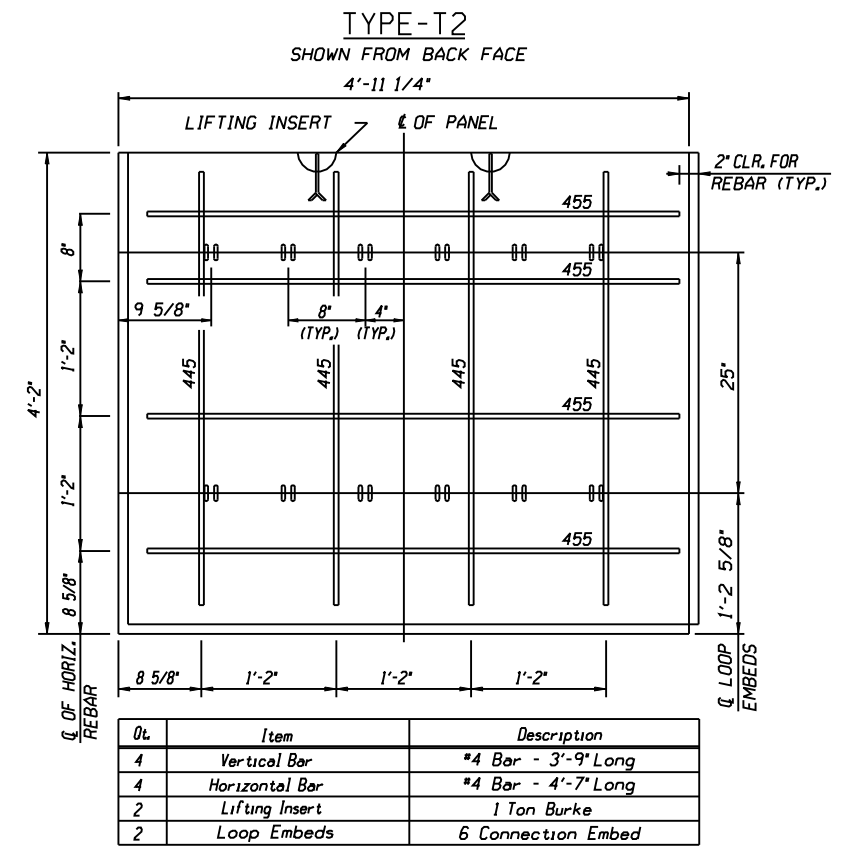
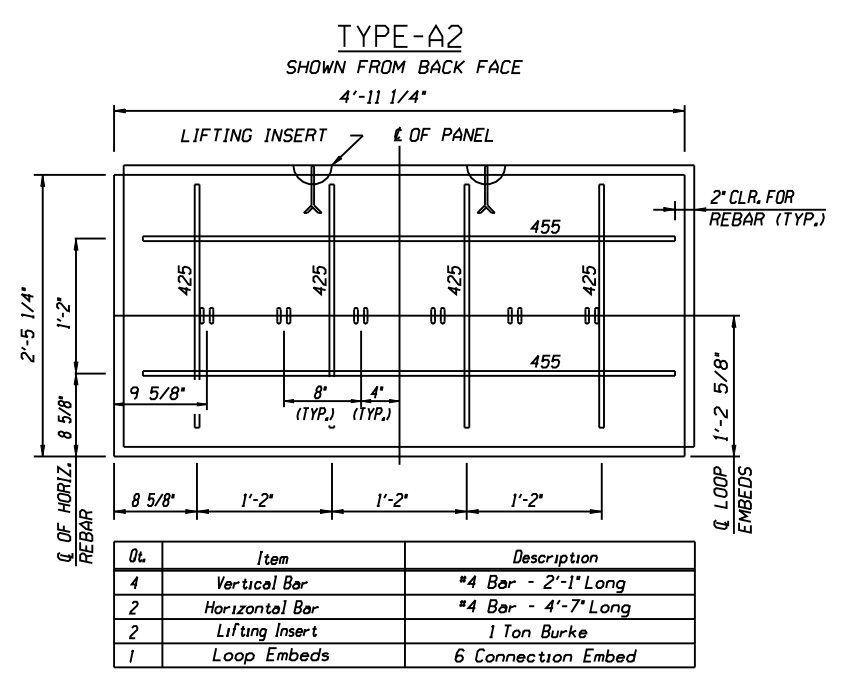
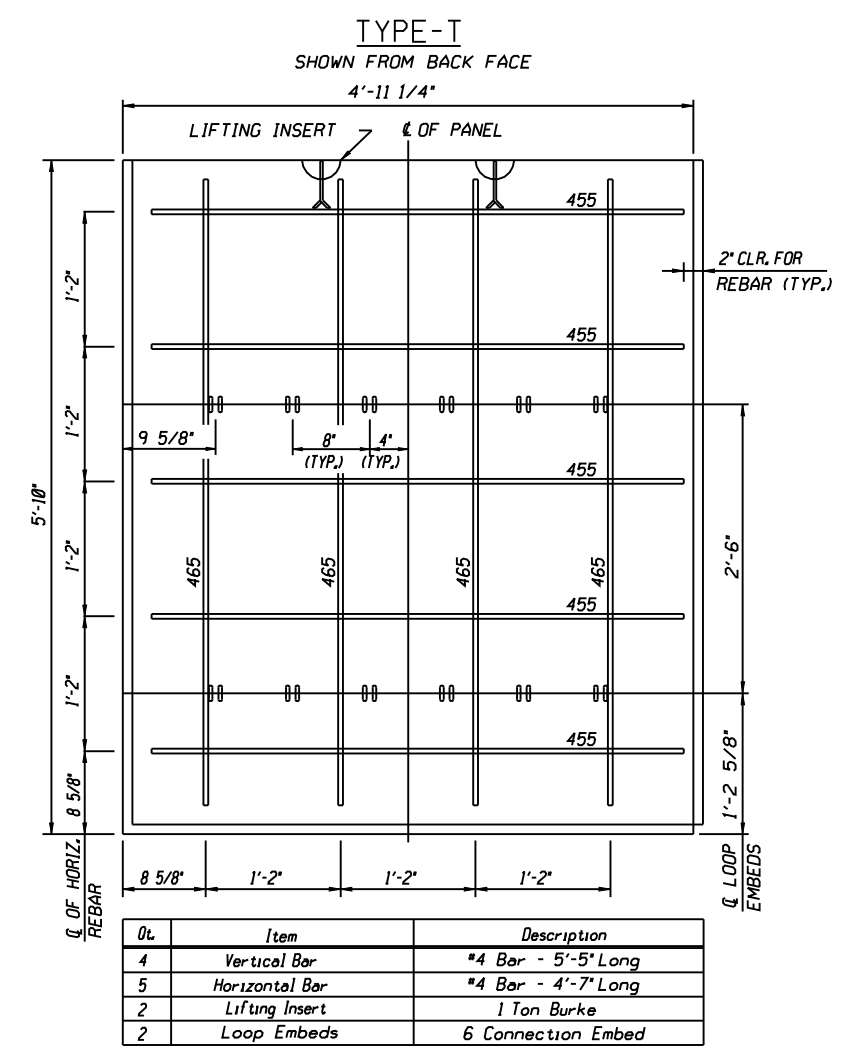
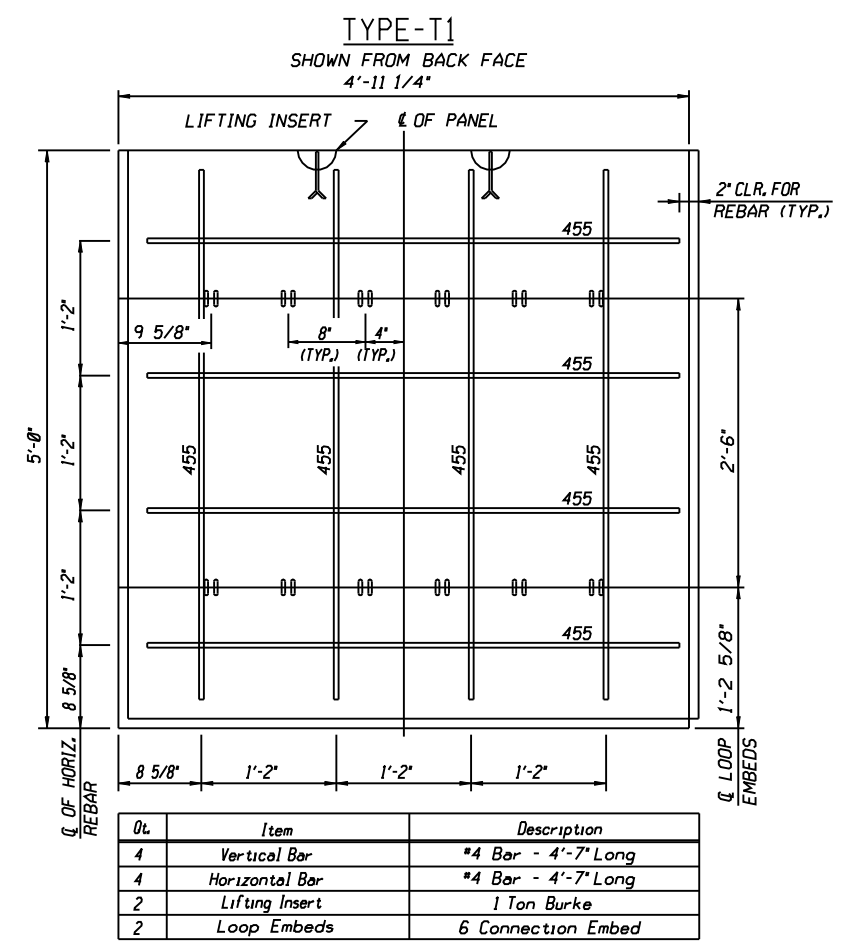
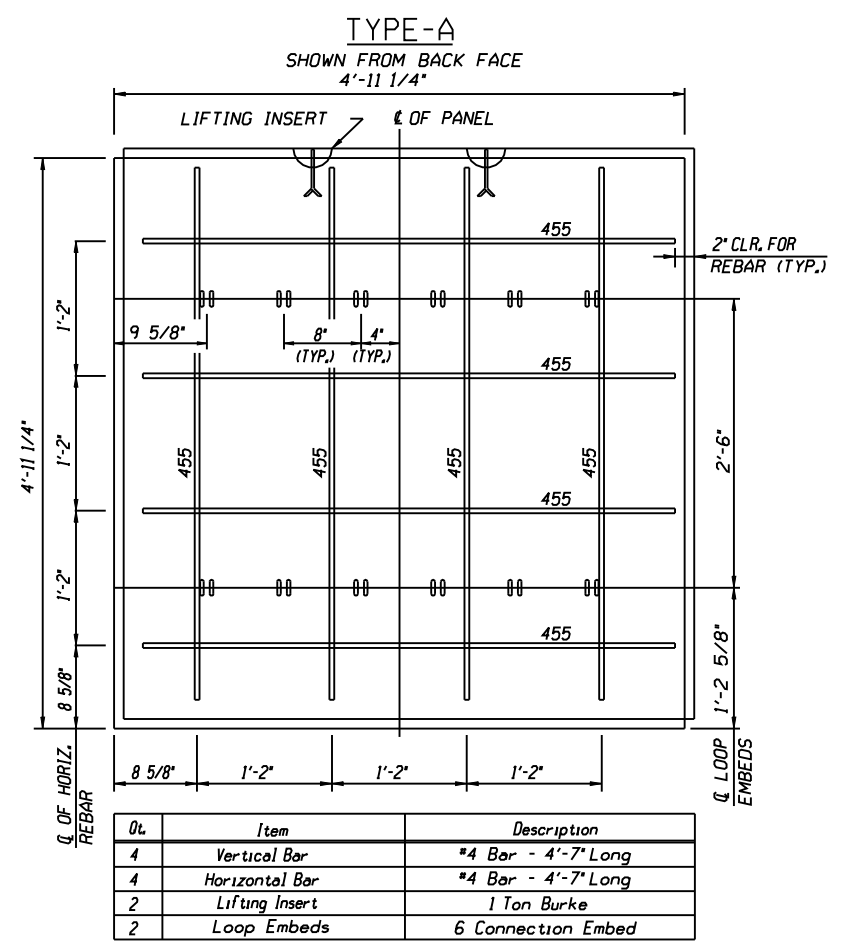
RETAINING WALL SYSTEMS
SSL
MSE PLUS WALL SYSTEM

INTERIM STANDARD

APPROVED BY
William N. Nickas, P.E.
State Structures Design Engineer

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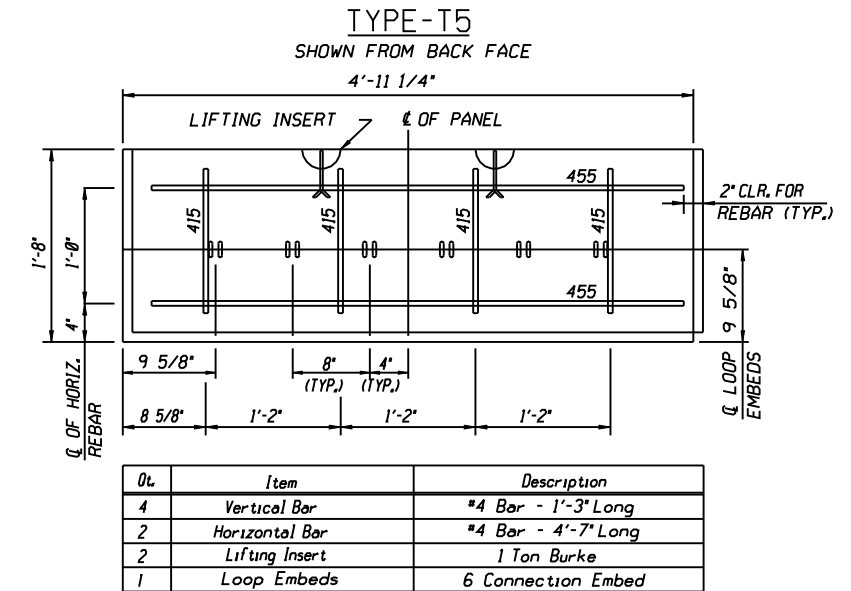
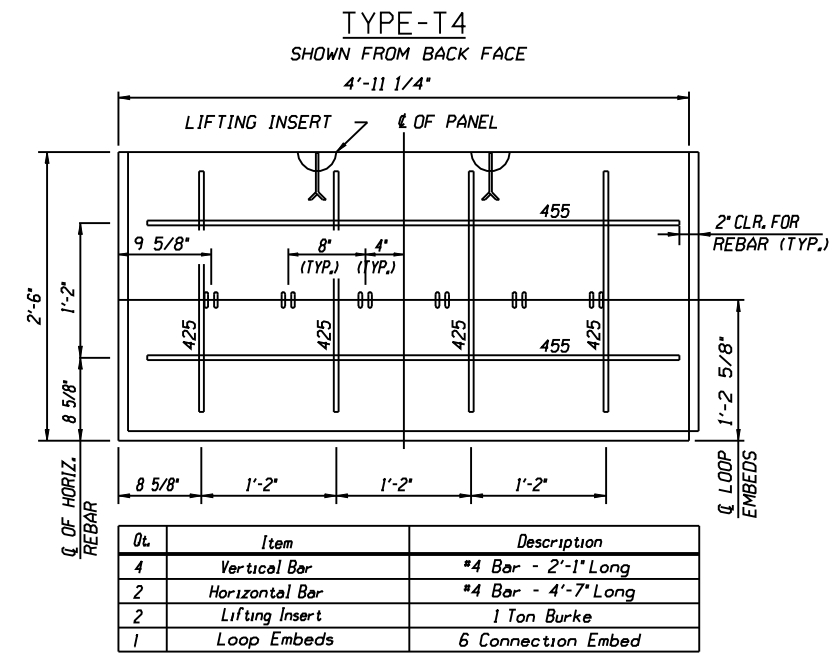
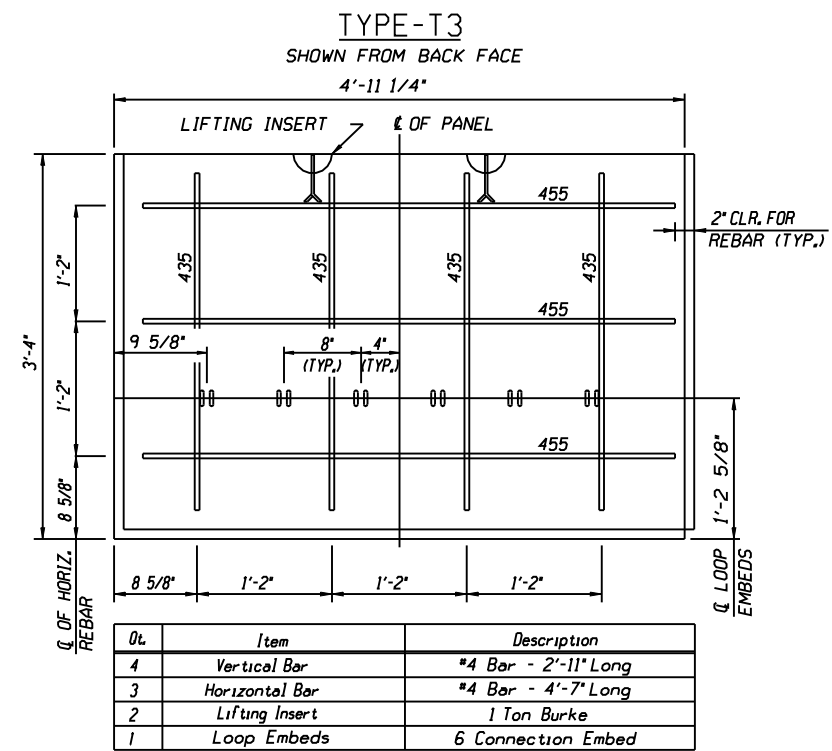
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NOTES :

1. All Panel Reinforcing Steel To Be #4 Bars.
2. All Dimensions Shown Are To Front Face Of Panel, Unless Otherwise Noted.
3. Reinforcement For Partial Panels To Be Proportional To Full Panels.
4. All Reinforcing Bars Are To Be 2" Minimum Clear To The Sides Of The Panel.
5. All Panels Are To Be Properly Marked On The Back Face As Shown.
6. Reinforcement Labels Indicate Bar Size And Length.

THE DESIGN OF ALL MSE PLUSSM WALLS IS BASED ON THE ASSUMPTION THAT ALL MATERIALS, INCLUDING THE BACKFILL AND METHODS OF CONSTRUCTION, CONFORM TO THE SPECIFICATIONS FOR MSE PLUSSM RETAINING WALLS AND THE PROJECT BID DOCUMENTS

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THIS SYSTEM SHALL BE USED IN SLIGHTLY OR MODERATELY AGGRESSIVE ENVIRONMENTS ONLY.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
RETAINING WALL SYSTEMS
SSL
MSE PLUS WALL SYSTEM

DATE : 01-01-05

INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN EITHER ENGLISH OR METRIC UNITS.

INTERIM STANDARD			APPROVED BY William N. Nickas, P.E. State Structures Design Engineer		
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