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GENERAL NOTES

DESIGN CRITERIA

I.DESIGN IS BASED ON THE ASSUMPTION THAT THE MATERIAL WITHIN THE REINFORCED EARTH VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED MATERIALS SHALL CONFORM TO THE CONTRACTING AGENCY'S TECHNICAL SPECIFICATIONS FOR RETAINED EARTH WALLS.

2. FACTORS OF SAFETY

OVERTURNING 2.0 INTERNAL PULLOUT I.5 (ALLOW DEFORMATION 3/4") OVERALL STABILITY 1.5 SLIDING 1.5 BEARING 2.5

SOIL REINFORCEMENT MESH 0.47 Fy AT END OF DESIGN LIFE

3. SOIL CHARACTERISTICS ASSUMED FOR DESIGNS

SOIL PARAMETERS.

SFF 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 0, C AND & SHALL BE PROVIDED IN THE SHOP DRAWINGS.

- 4. 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.
- 5. ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED EARTH VOLUME, AS DETERMINED BY THE ENGINEER, SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE STABILIZED AS DIRECTED BY THE ENGINEER.

REINFORCING ELEMENTS

6. 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 SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF ASTM A-123.

LOOP EMBEDS SHALL BE FABRICATED FROM COLD DRAWN STEEL ROD COMFORMING TO ASTM A-510 OR ASTM A-82. LOOP EMBEDS SHALL BE WELDED IN ACCORDANCE WITH ASTM A-185. LOOP EMBEDS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM B-633.



6455 OLD PEACHTREE ROAD NORCROSS. GA 30071 Telephone (770) 446-3000 Fax: (770) 242-7493

DESIGN:

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

WALL CONSTRUCTION

- 8A. (SQUARE PANELS) RETAINED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 5.0' EACH TO MATCH DESIRED WALL ALIGNMENT.
- 8B. (HEX PANELS) RETAINED EARTH WALLS IN CURVES WILL FORM A SERIES OF SHORT CHORDS OF 4.33' EACH TO MATCH DESIRED WALL ALIGNMENT.
- 9. FOR LOCATION AND ALIGNMENT OF RETAINED EARTH WALLS. SEE RETAINING WALL CONTROL PLANS.
- 10. IF MANHOLES AND DROP INLETS ARE PRESENT, THEY SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS.
- II. IF PILES ARE LOCATED WITHIN REINFORCED SOIL VOLUME. THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE REINFORCED EARTH WALL UNLESS A METHOD TO PROTECT THE STRUCTURE WHICH IS ACCEPTABLE TO THE ENGINEER AND FOSTER GEOTECHNICAL COMPANY AND IS PROPOSED AND APPROVED IN WRITING.
- 12. BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 548 TO A LEVEL OF 2" (+/-) ABOVE THE TIE MESH EMBEDDED IN THE PANELS. INSTALLATION OF REINFORCING MESH SHALL BE PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.
- 13. WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 548.
- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY GUARDRAIL POSTS BEHIND RETAINED EARTH PANELS. PRIOR TO PLACEMENT OF THE TOP LAYER OF REINFORCING MESH, INDIVIDUAL REINFORCING MESH MAY BE SKEWED TO AVOID THE POST LOCATIONS IF AUTHORIZED BY THE ENGINEER (NO CUTTING OF SOIL REINFORCEMENT GRIDS ALLOWED UNLESS SHOWN ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER). ANY DAMAGE DONE TO THE REINFORCING MESH DUE TO THE INSTALLATION OF THE GUARDRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 15. IF EXISTING OR FUTURE STRUCTURES, PIPES, FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN 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.
- 16. TOP PANELS BENEATH CAST-IN-PLACE COPING SHALL HAVE #4 BARS PROTRUDING FROM THEIR TOP FOGE.
- 17. FOR OTHER INFORMATION PERTAINING TO WALL CONSTRUCTION PLEASE REFER TO FOSTER GEOTECHNICAL CONSTRUCTION MANUAL.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY DEFLECTING UPPER REINFORCING MESH DOWNWARD TO AVOID CONFLICTS WITH PAVING AND SUBGRADE PREPARATION. THE CONTRACTOR'S ATTENTION IS DIRECTED ESPECIALLY TO SITUATIONS WHERE ROADWAY SUPER ELEVATION AND/OR SOIL MIXING ARE ANTICIPATED.

MATERIALS NOTES

19. NOMINAL MESH LENGTHS

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

20. REINFORCED BACKFILL QUANTITY

THE REINFORCED BACKFILL QUANTITY INDICATED BY FOSTER GEOTECHNICAL 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 METER 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.

21. PANEL FINISH

THE PRECAST PANELS FOR THIS PROJECT SHALL BE A PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED ON THE RETAINED EARTH CONTROL

22. NOTE TO CONTRACTORS

ONLY THE FOLLOWING MATERIALS ARE SUPPLIED BY FOSTER GEOTECHNICAL

- PRECAST PANELS
- REINFORCING MESH
- HDPE BEARING PAD (NOMINAL 4.0 MELT / .950 DENSITY)
- NON-WOVEN FILTER CLOTH AND ADHESIVE (FOR PANEL JOINTS ONLY) (WEBTECH-TERRATEX NO. 4 OR EQUAL)

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 SPECIAL APPLIED COATINGS ARE ALSO SUPPLIED / INSTALLED BY THE CONTRACTOR IN THE FIELD FOLLOWING PANEL ERECTION.

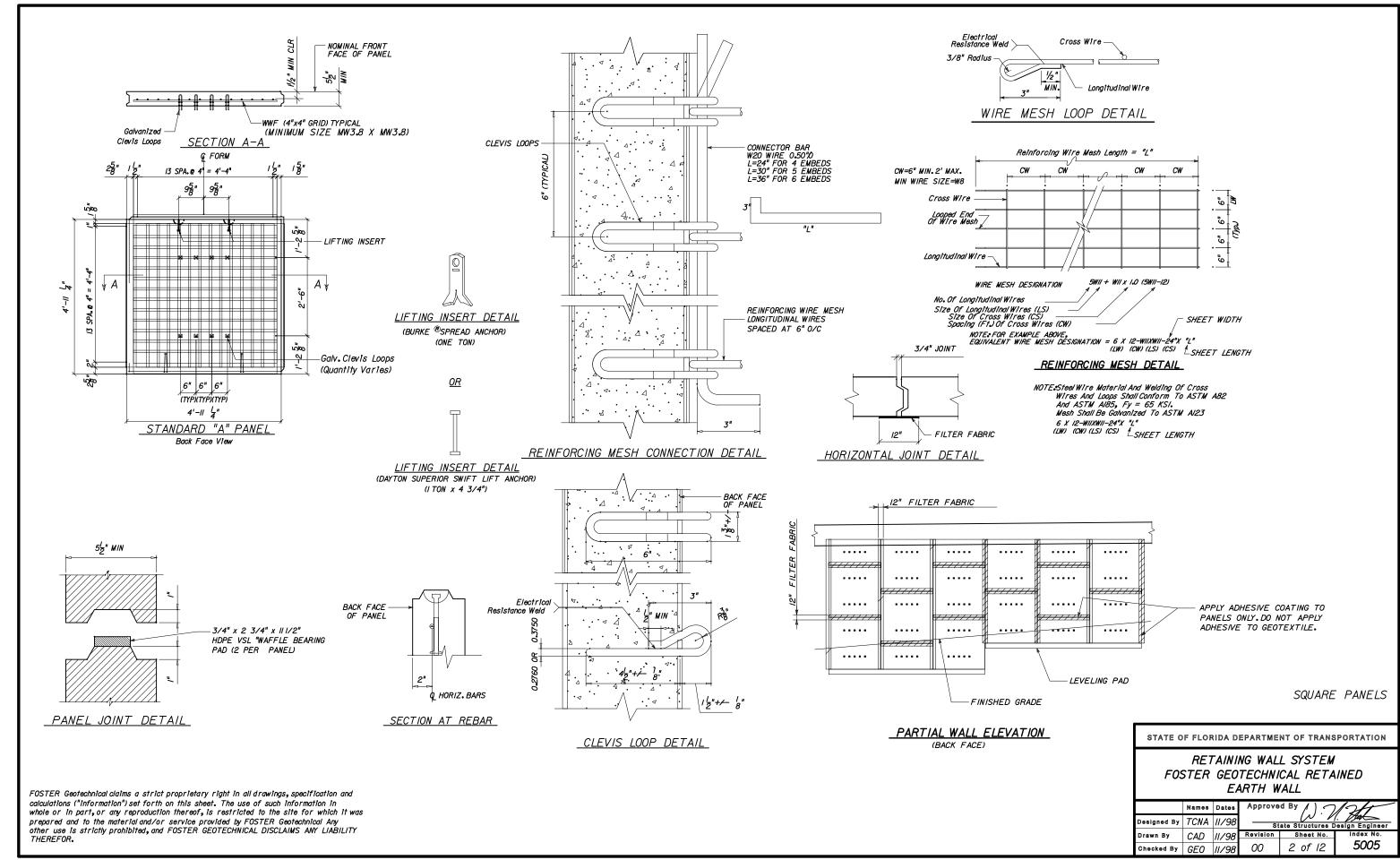
23. FOSTER GEOTECHNICAL SUPPLIES PRECAST CONCRETE FACING PANELS AND ACCESSORIES TO BE USED IN CONJUNCTION WITH OTHER MATERIALS IN THE CONSTRUCTION OF RETAINED EARTH WALLS DETAILED HEREIN THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES MANUAL FURNISHED BY FOSTER GEOTECHNICAL IS INTENDED TO PROVIDE A GENERAL 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 JOBSITE CONTRACTORS SHOULD TAKE SPECIAL PRECAUTIONS TO PREVENT THE PANELS FROM SHIFTING OR FALLING DURING THE ERECTION PROCESS.

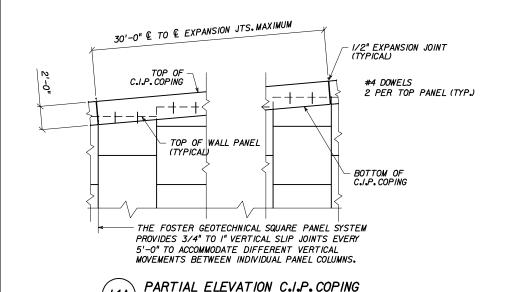
SQUARE / HEX PANELS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

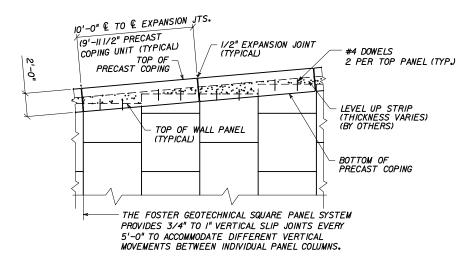
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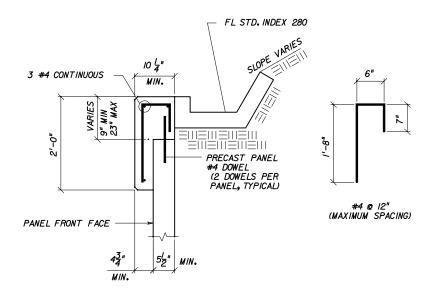




(SQUARE PANELS SHOWN, HEX PANELS SIMILAR)

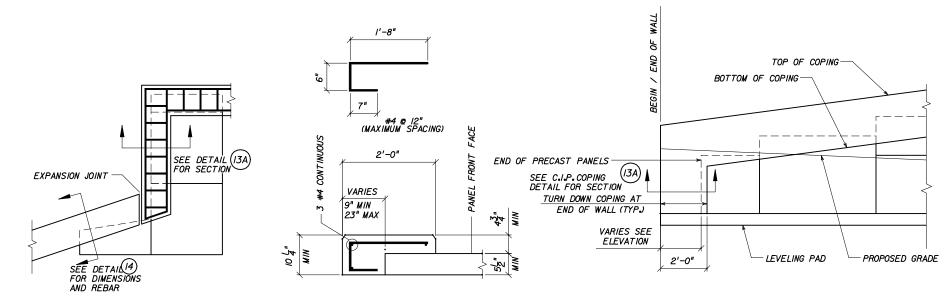
**13A





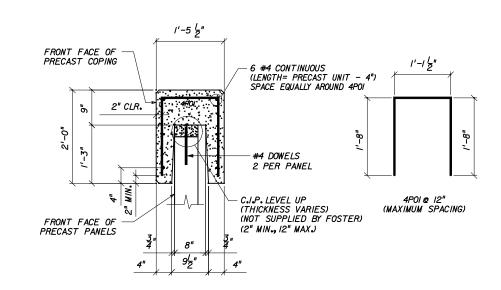
20A PARTIAL ELEVATION PRECAST COPING
(SQUARE PANELS SHOWN, HEX PANELS SIMILAR)





VERTICAL COPING (C.I.P.) SECTION

(2" MIN. COVER TYP.)



(SQUARE PANELS SHOWN,

20 TYPE H_ PRECAST COPING (STANDARD PRECAST COPING)

SQUARE / HEX PANELS

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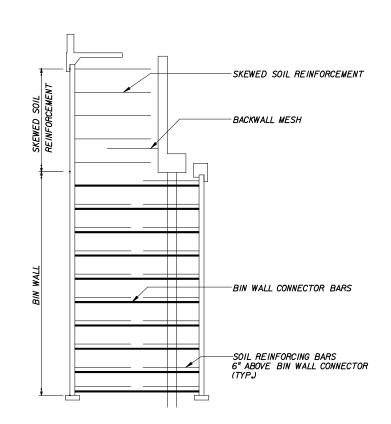
RETAINING WALL SYSTEM
FOSTER GEOTECHNICAL RETAINED
EARTH WALL

	Names	Dates	Approve	u by /)	121	
Designed By	TCNA	11/98	State Structures Design Engineer			
Drawn By	CAD	11/98	Revision	Sheet No.	Index No.	
Checked By	GE0	11/98	00	3 of 12	5005	

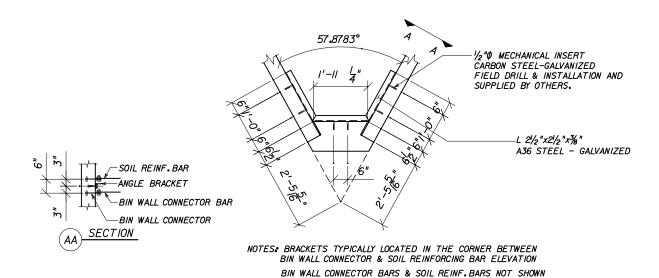
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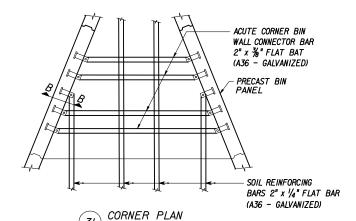
(SQUARE PANELS SHOWN, HEX PANELS SIMILAR)



CC TYPICAL SECTION @ BIN WALL



30 ANGLE BRACKET DETAIL



4" EMBED

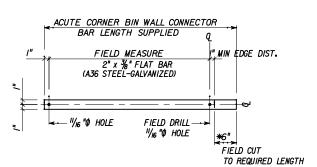
5%" Ø BOLT (A325 - GALVANIZED)

SOIL REINFORCING BAR

BIN WALL CONNECTOR BAR

BIN WALL CONNECTOR

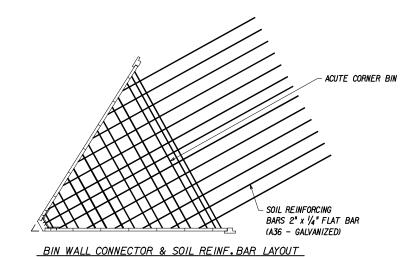
BET WALL CONNECTOR

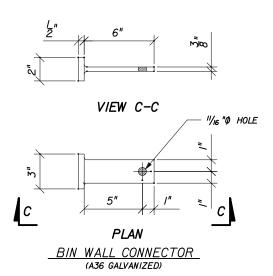


* EXPOSED STEEL ON FIELD MODIFIED END SHALL BE COATED WITH ZINC RICH PAINT

32 BIN WALL CONNECTOR BAR







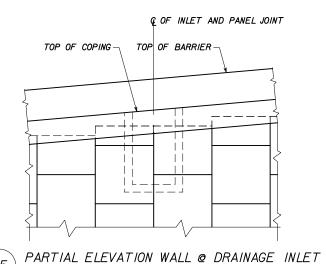
SQUARE / HEX PANELS

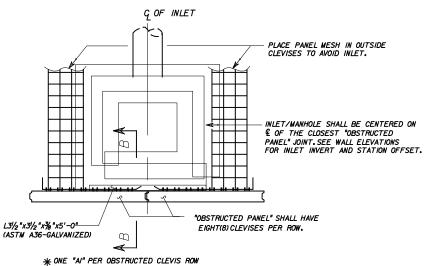
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

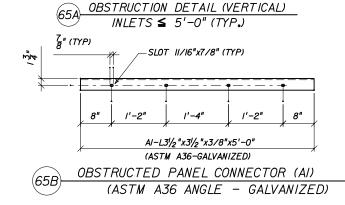
RETAINING WALL SYSTEM
FOSTER GEOTECHNICAL RETAINED
EARTH WALL

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Drawn By	CAD	11/98	Revision	Sheet No.	Index No.	
Checked By	GE0	11/98	00	4 of 12	5005	

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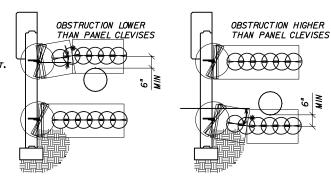
VERTICAL OBSTRUCTION NOTES

OBSTRUCTION SHALL BE CONSTRUCTED BEFORE WALL INSTALLATION.

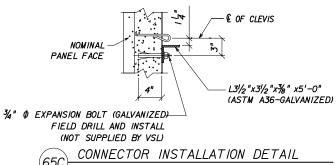
FIELD CUT AND SKEW MESH AROUND OBSTRUCTION AS REQUIRED. THESE AREAS WILL BE CLEARLY INDICATEDON THE RETAINED EARTH SHOP DRAWINGS AND APPROVED BY THE ENGINEER OF RECORD.

CUT MESH/DAMAGED GALV. SHALL BE COATED WITH ZINC RICH PAINT.

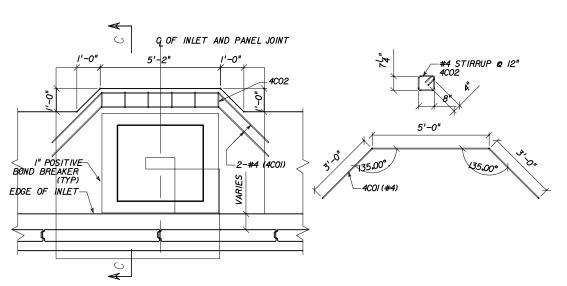
NO CUTTING OF SOIL REINFORCEMENT GRIDS ALLOWED UNLESS SHOWN ON SHOP DRAWINGS AND APPROVED BY THE ENGINEER



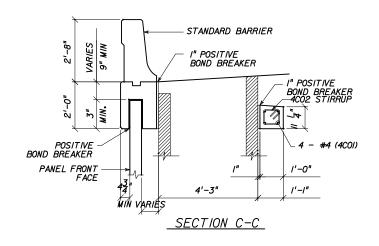




(SECTION B-B)



PARTIAL PLAN - JUNCTION SLAB AROUND INLET (REBAR NOT SUPPLIED BY FOSTER GEOTECHNICAL)

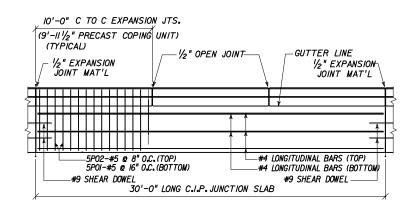


SQUARE / HEX PANELS

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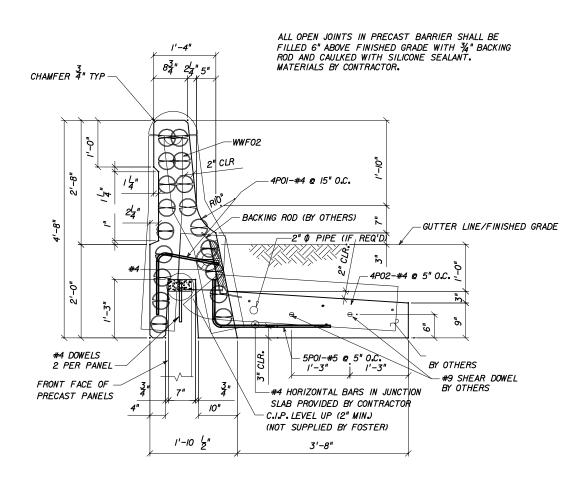
RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

	Names	Dates	Approve	d By /)	12/	
Designed By	TCNA	11/98	State Structures Design Engineer			
Drawn By	CAD	11/98	Revision Sheet No. Index No.			
Checked By	GE0	11/98	00	5 of 12	5005	



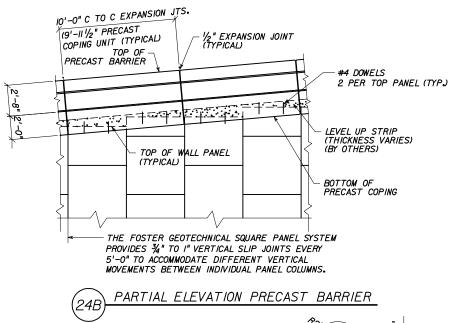
PLAN VIEW - PRECAST TRAFFIC BARRIER

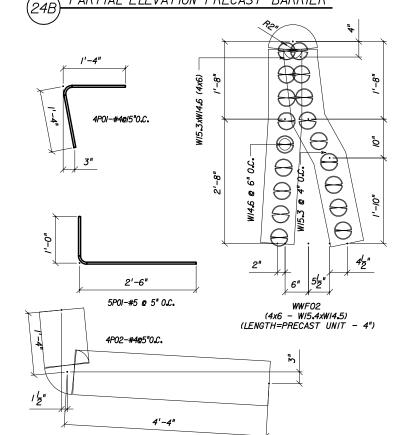
(HORIZONTAL BARS IN JUNCTION SLAB & #9 SHEAR DOWELS, NOT BY VSL)



TYPE HTB_ PRECAST BARRIER W/COPING & JUNCTION SLAB

U.S. PATENT NO. 4,494,892





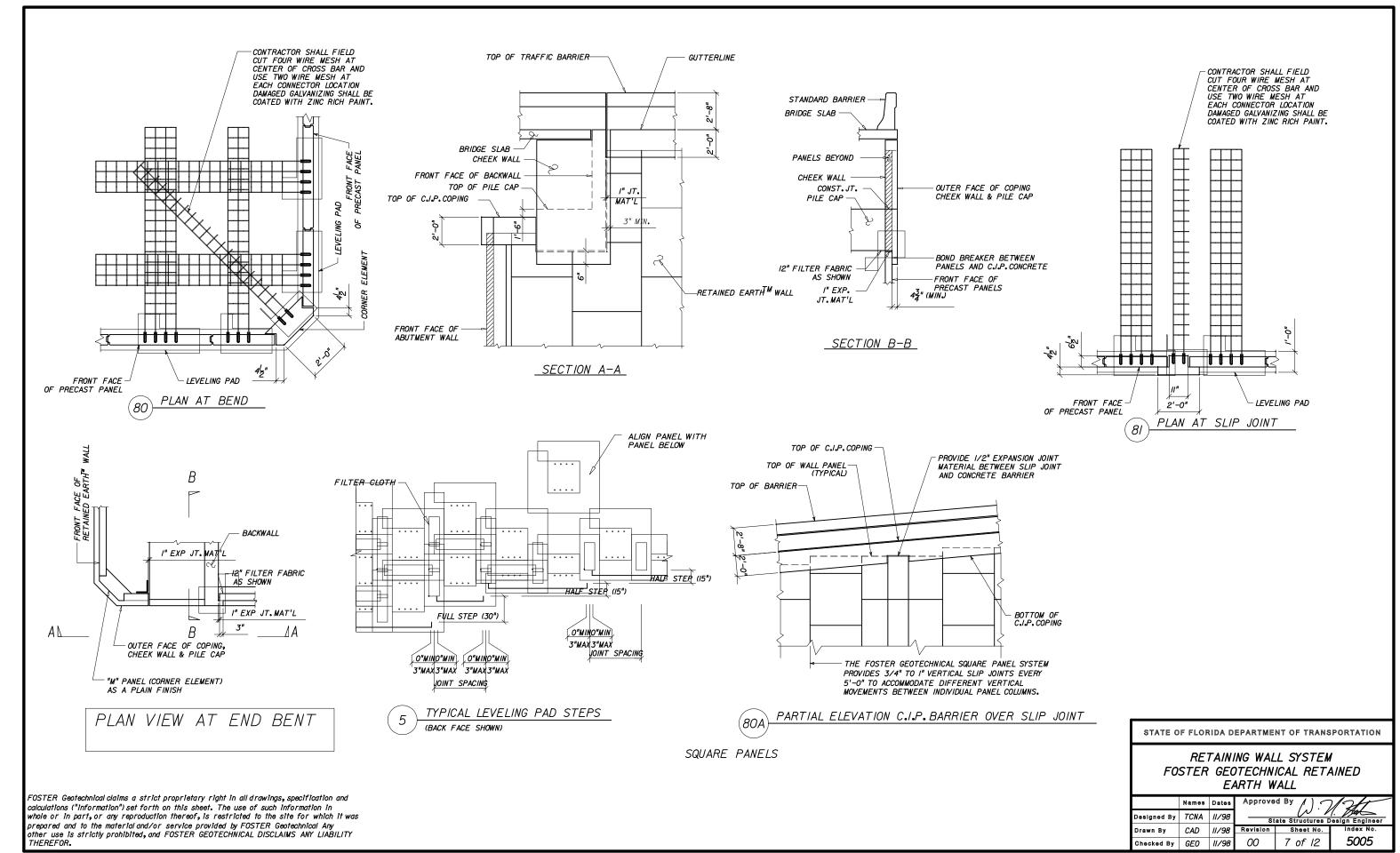
SQUARE / HEX PANELS

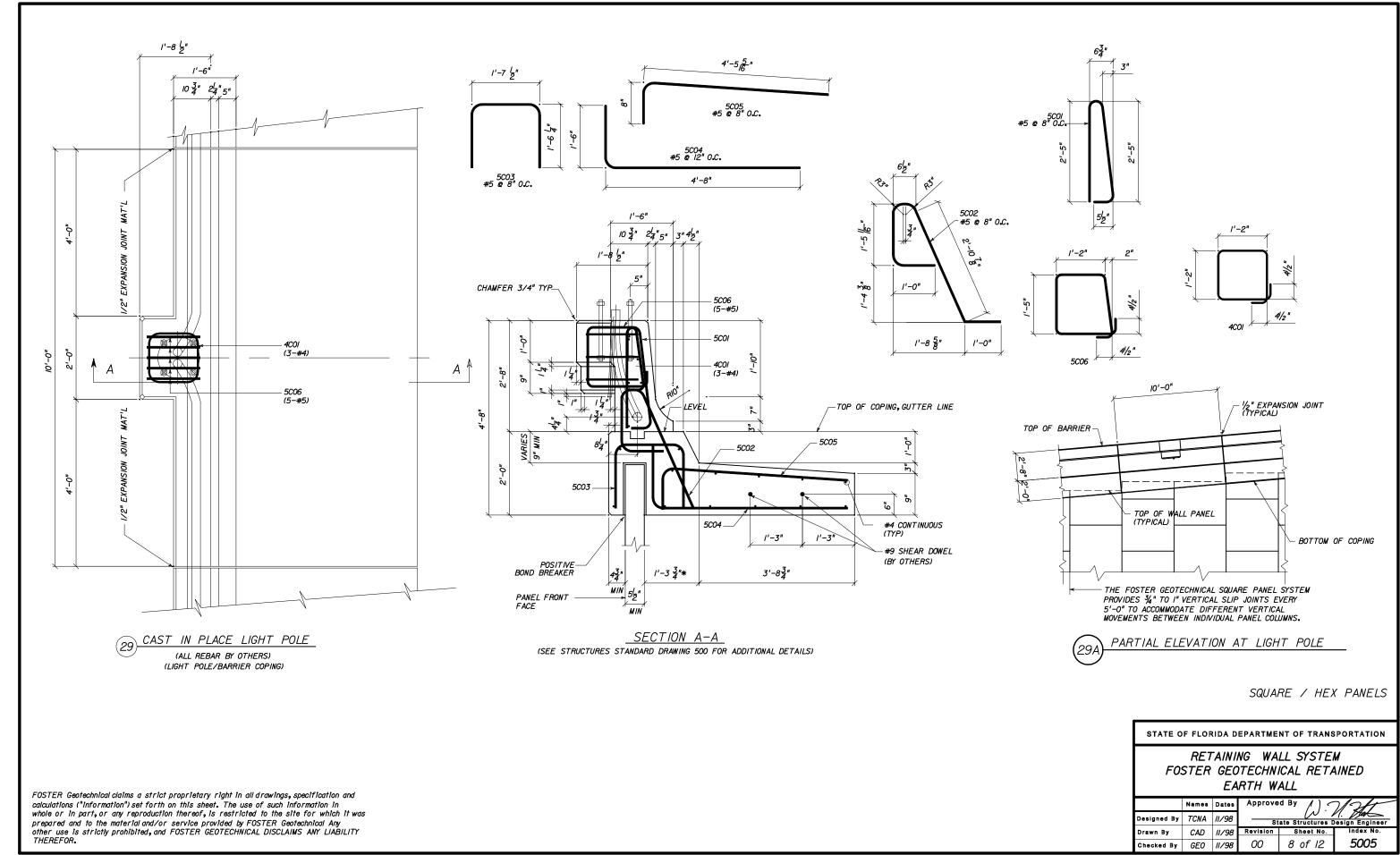
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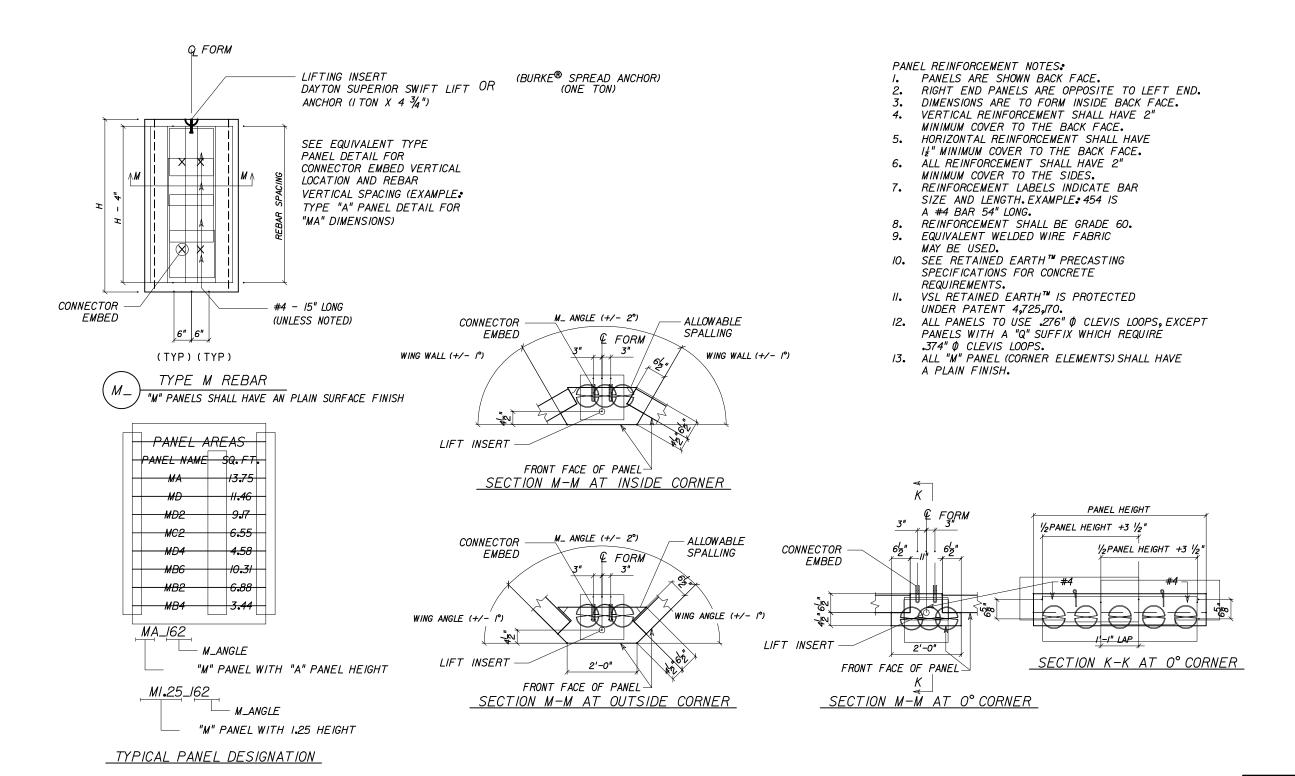
RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

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Drawn By	CAD	11/98	Revision	Sheet No.	Index No.
Checked By	GE0	11/98	00	6 of 12	5005

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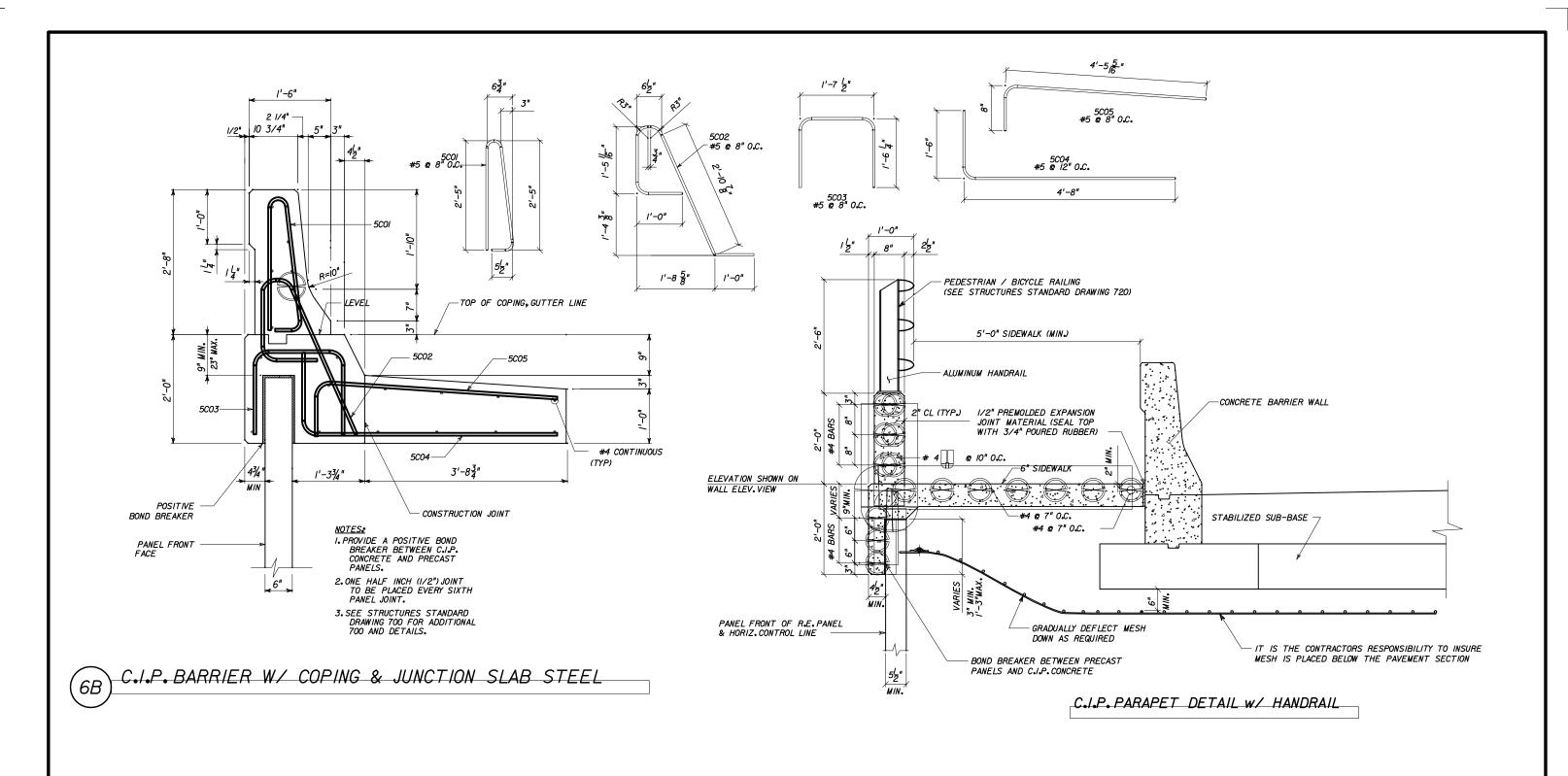
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SQUARE / HEX PANELS

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RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

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TCNA	11/98	State Structures Design Engineer		
CAD	11/98	Revision	Sheet No.	Index No.
GE0	11/98	00	9 of 12	5005
7	CNA	CAD 11/98	CAD /98 Revision	CAD ///98 Revision Sheet No.



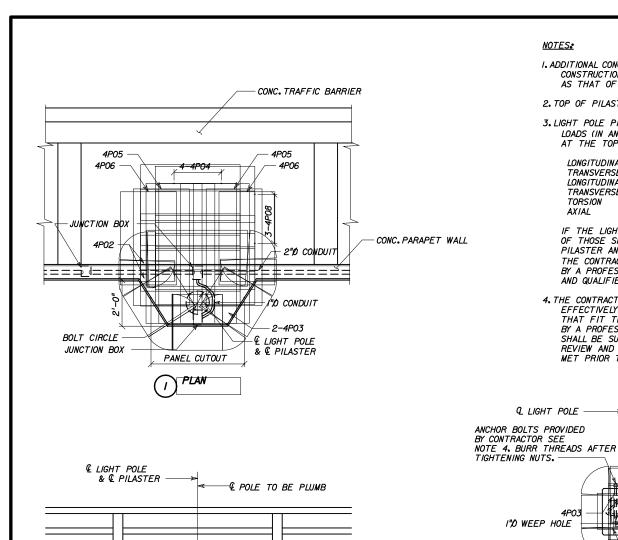
SQUARE / HEX PANELS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
FOSTER GEOTECHNICAL RETAINED
EARTH WALL

	Names	Dates	Approve	d By /)	MAH
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Drawn By	CAD	11/98	Revision	Sheet No.	Index No.
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-1**"/Ó COND**UIT

-4P07

5'-0"

WALL CUTOUT

-4P03

LIMITS OF

THICKENED SLAB

NOTES:

Q LIGHT POLE

4P07.

PANEL FRONT

4 FRONT VIEW OF

JUNCTION BOX (COVER REMOVED)

FACE

-2"/D CONDUIT TO

NEXT JUNCTION BOX

6" CONC. SIDEWALK

TYP. 3/16 /

2"/O CONDUIT HUB (TYP.)

- I. ADDITIONAL CONCRETE AND REINFORCING STEEL REQUIRED FOR THE CONSTRUCTION OF THE PILASTER SHALL MEET THE SAME REQUIREMENTS AS THAT OF THE PARAPET WALL.
- 2. TOP OF PILASTER SHALL BE FINISHED TO A TRUE LEVEL AREA.
- 3. 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 = 6,000 FT.POUNDS LONGITUDINAL SHEAR = 1,000 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. AND QUALIFIED TO PERFORM THE WORK.
- 4. 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.

5'-0" SIDEWALK

CAST IN PLACE

SEE DETAIL SHEETS

< TY₽∙

-2"D CONDUIT HUB (TYP.)

I"D CONDUIT HUB

THICKEN SLAB TO 1'-6"

5'-0" ON EITHER SIDE OF LIGHT POLE PILASTER

SEE LIGHTING PLANS

AND DETAIL SHEETS

COVER

CONCRETE SURFACE

SECTION (A W-2

PARAPET WALL

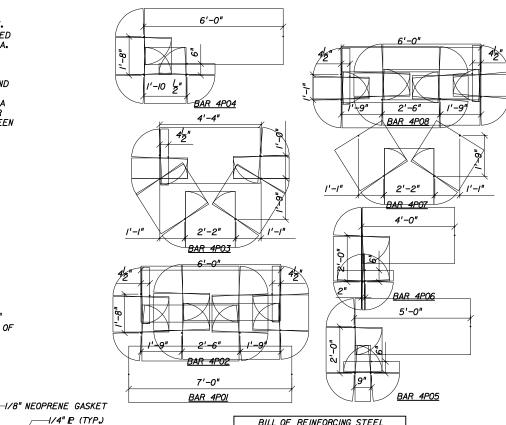
LIGHT PILASTER DETAIL

1/4

<u>~</u>4

5. STEEL FOR JUNCTION BOXES SHALL CONFORM WITH ASTM-A36. 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

- 6. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 80 P.V.C.
- 7. THE COST OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR LIGHT POLES.
- 8. 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 WITHIN THE LIMITS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE FOR THE MSE WALLS.



BILL OF REINFORCING STEEL									
MARK	SIZE	NO. REQ'D	LENGTH						
4P0I	#4	6	7'-0"						
4P02	#4	2	24'-5"						
4P03	#4	1	/3'-/"						
4P04	#4	4	10'-0 1/2"						
4P05	#4	2	8'-3"						
4P06	#4	2	6'-8"						
4P07	#4	2	6'-4"						
4P08	#4	3	22'-1"						

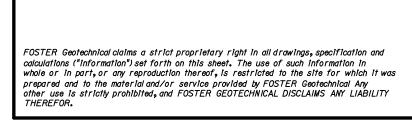
BAR BENDING DETAIL

SQUARE / HEX PANELS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM FOSTER GEOTECHNICAL RETAINED EARTH WALL

	Names	Dates	Approve	d By /) .	1911
Designed By	TCNA	11/98	State Structures Design Engineer		
Drawn By	CAD	11/98	Revision	Sheet No.	Index No.
Checked By	GE0	11/98	00	II of 12	5005



JUNCTION BOX

5'-0"

2'-0"

2'-0"

ļ'-3" | ļ'-3" | ļ'-3" | l'-3"

3 LIGHT PILASTER ELEVATION

&

