STANDARD DETAILS

ISOGRID® M.S.E. WALL SYSTEM

DESIGNER



THE NEEL COMPANY

8328-D TRAFORD LANE SPRINGFIELD, VIRGINIA 22152 PH: (703) 913-7858 FX: (703) 913-7859

PRECASTER

OLDCASTLE PRECAST, INC.

||643 ||03rd STREET |JACKSONVILLE, FL 322||0 |PH: (904) 778-2990 |FX: (904) 778-2992

LEGEND



PANEL WITH ONE SOIL REINFORCEMENT GRID



HORIZONTAL HALF-PANEL WITH ONE SOIL REINFORCEMENT GRID



WITH ONE SOIL REINFORCEMENT GRID

VERTICAL HALF-PANEL



TL/BR & TR/BL QUARTER PANELS WITH ONE SOIL

REINFORCEMENT GRID

DENOTES LIMITS OF DIFFERENT LENGTHS OF SOIL REINF.GRIDS



PANEL WITH FOUR SOIL REINFORCEMENT GRIDS



SPECIAL HEIGHT PANELS (X-ITHRU X-5)WITH ONE SOIL REINFORCEMENT GRID

DESIGNER:



THE NEEL COMPANY 8328-D TRAFORD LANE SPRINGFIELD, VIRGINIA 22152 PH: (703) 913-7858 FX: (703) 913-7859

PRECASTER:

OLDCASTLE PRECAST, INC

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

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

	Names	Dates	Approve	d By /) ?	12/
Designed By	J MC	10/01/98	St	ate Structures D	esign Engineer
Drawn By	CAA	10/01/98	Revision	Sheet No.	Index No.
Checked By	J MC	10/01/98	00	1 of 20	5012

MISCELLANEOUS NOTES:

I. DESIGNER:

THE NEEL COMPANY 8328-D TRAFORD LANE SPRINGFIELD, VA 22152 PH: (703) 913-7858 FX: (703) 913-7859

2. PRECASTER:

OLDCASTLE PRECAST INC. 11643 103rd STREET JACKSONVILLE, FL 32210 PH: (904)778-2990 FX: (904)778-2992

3. MATERIALS SUPPLIED BY PRECASTER:

-PRECAST ISOGRID PANELS

-GALVANIZED SOIL REINFORCEMENT GRID

-GALVANIZED GRID LOCKING BAR

-DIAGONAL JOINT MATERIAL AND ADHESIVE

-VERTICAL JOINT MATERIAL

DESIGN NOTES:

I. DESIGN IS BASED ON THE ASSUMPTION THAT
THE MATERIAL WITHIN THE RETAINING WALL
VOLUME, METHODS OF CONSTRUCTION, AND
QUALITY OF PREFABRICATED MATERIALS SHALL
CONFORM TO SPEC SECTION 548 - RETAINING
WALL SYSTEMS.

2. 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 VALUE OF A,
C AND GAMMA SHALL BE PROVIDED IN THE SHOP DRAWINGS

3. FACTORS OF SAFETY.

-OVERTURNING - 2.0

-SLIDING - 1.5

-INTERNAL PULLOUT - 1.5 (ALLOWABLE DEFORMATION 0.75")
-SOIL REINFORCEMENT GRID - 0.47 Fy AT END OF DESIGN LIFE

-BEARING CAPACITY - 2.5 -OVERALL STABILITY - 1.5

- 4. THE MAXIMUM APPLIED BEARING PRESSURE AT THE FOUNDATION LEVEL IS AS SHOWN ON THE WALL DESIGN DRAWINGS FOR EACH DESIGN CASE. IT IS THE RESPONSIBILITY OF THE OWNER TO DETERMINE THAT THIS APPLIED BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- 5. THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY THE OWNER. ON THE BASIS OF THIS INFORMATION, THE NEEL COMPANY IS RESPONSIBLE FOR INTERNAL STABILITY OF THE STRUCTURE ONLY. EXTERNAL STABILITY DESIGN INCLUDING FOUNDATION AND SLOPE STABILITY, IS THE RESPONSIBILTY OF OTHERS

MATERIALS NOTES:

I. PRECAST CONCRETE:

-PRECAST ISOGRID PANELS - PER SPEC SECTION 548
-ARCHITECTURAL FINISH SHALL BE PLAIN STEEL FORM FINISH
UNLESS OTHERWISE SPECIFIED ON THE RETAINING WALL CONTROL PLANS.

2. C.I.P. CONCRETE:

-C.I.P. LEVELING PAD - PER SPEC SECTION 548 -OTHER C.I.P. CONCRETE - PER SPEC SECTION 548

3. REINFORCING STEEL.

-PER SPEC SECTION 548

-6" x 6" WELDED GRID, D8 x D8 WIRE

0R

-#3 REBAR @ 6" O.C. EACH WAY

-WELDED PER ASTM A497 PRIOR TO GALVANIZATION

4. CONNECTION INSERT.

-PER SPEC SECTION 548

-WII WIRE

-WELDED PER ASTM A185 PRIOR TO GALVANIZATION

5. LOCKING BAR.

-PER SPEC SECTION 548

6. SOIL REINFORCEMENT GRIDS.

-PER SPEC SECTION 548

-WII WELDED WIRE GRIDS.

-5 LONGITUDINAL WIRES @ 6" O.C., LENGTH AS REQUIRED BY DESIGN -2' LONG TRANSVERSE BARS AT 6" OR 12" O.C., AS REQUIRED BY DESIGN

-2 LONG TRANSPERSE BARS AT 8 OR 12 O.C., AS REQUIRED BY DESIGN ON ISOGRID DESIGN DEAMINGS ARE NOMINAL

LENGTHS AS REQUIRED BY DESIGN CALCULATIONS. DUE TO MANUFACTURING 7. IF EXISTING OR FUTURE STRUCTURES, PIPES,

TOLERANCES, ACTUAL GRID LENGTHS MAY BE LONGER. FOUNDATIONS OR GUARDRAIL POSTS WHICH

7. JOINT MATERIAL.

-DIAGONAL JOINT FILLER.

-1/2" x 4" x 4'-2"

-PREFORMED EPDM

-DUROMETER: 80 - 90

-DIAGONAL JOINT BACKING.

-MIRAFI 140N OR EQUAL

-12" WIDE x LENGTH OF JOINT

-GEOTEXTILE MEETING REQUIREMENTS OF SPEC SECTION 548

-WEEPHOLE COVER:

-TENSAR DC4205 OR EQUAL

-6" x 61/2" (MIN)

-GEOCOMPOSITE MEETING REQUIREMENTS OF SPEC SECTION 548

8. BACKFILL.

-PER SPEC SECTION 548

CONSTRUCTION NOTES.

- I. ALL CONSTRUCTION PROCEDURES SHALL COMPLY
 WITH SPEC SECTION 548-8 AND THE "ISOGRID
 CONSTRUCTION MANUAL" (PROVIDED BY THE NEEL
 COMPANY OR OLDCASTLE PRECAST, INC). IN THE
 EVENT OF A DISCREPANCY BETWEEN THE SPEC AND
 THE "ISOGRID CONSTRUCTION MANUAL", THE SPEC
 SHALL CONTROL.
- 2. FOR LOCATION AND ALIGNMENT OF ISOGRID STRUCTURE, SEE RETAINING WALL CONTROL PLANS.
- 3. ISOGRID STRUCTURES ON CURVES SHALL BE BUILT IN CHORDS AS SHOWN IN THE ISOGRID DESIGN DRAWINGS.
- 4. IF MANHOLES OR DROP INLETS ARE PRESENT, THEY
 SHALL BE LOCATED AS SHOWN IN THE ISOGRID DESIGN
 DRAWINGS.
- 5. IF PILES ARE LOCATED WITHIN THE RETAINING WALL VOLUME, THEY SHALL BE DRIVEN BEFORE CONSTRUCTION OF THE ISOGRID STRUCTURE UNLESS A METHOD TO PROTECT THE STRUCTURE, WHICH IS ACCEPTABLE TO THE ENGINEER AND THE NEEL COMPANY, IS SUBMITTED AND APPROVED IN WRITING.
- 6. IF A STRUCTURE EXCEEDS 20' IN HEIGHT, THE FINISH
 GRADE AT THE FACE OF THE WALL SHALL BE PLACED
 AND COMPACTED BEFORE WALL CONSTRUCTION EXCEEDS
 20' IN HEIGHT.
- 7. IF EXISTING OR FUTURE STRUCTURES, PIPES,
 FOUNDATIONS OR GUARDRAIL POSTS WHICH ARE WITHIN
 THE RETAINING WALL VOLUME INTEFERE WITH THE
 NORMAL PLACEMENT OF REINFORCING GRIDS AND
 SPECIFIC DIRECTION HAS NOT BEEN PROVIDED IN THE
 CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY
 THE ENGINEER.
- 8. TOP PANELS ON WALLS WITH CAST-IN -PLACE COPING SHALL HAVE #4 REBAR PROTRUDING FROM THEIR TOP EDGE.
- 9. BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED
 IN ACCORDANCE WITH THE SPECIFICATIONS FOR MSE
 WALLS TO A LEVEL OF APPROXIMATELY 2" ABOVE THE
 CONNECTION INSERT EMBEDDED IN THE PANELS.
 INSTALLATION OF THE SOIL REINFORCEMENT SHALL BE
 PERMITTED ONLY AFTER PLACEMENT AND COMPACTION OF
 THE BACKFILL MATERIAL HAS REACHED THE REQUIRED LEVEL.
- IO. COMPACTION AND OPERATION EQUIPMENT SHALL BE KEPT

 A MINIMUM DISTANCE OF 3' FROM THE BACK FACE OF THE
 ISOGRID PANELS. COMPACTION WITHIN 3' OF THE ISOGRID
 PANEL SHALL BE 90% OF AASHTO T-180.
- II. THE CONTRACTOR IS RESPONSIBLE FOR GRADUALLY

 DEFLECTING UPPER REINFORCING GRIDS DOWNWARD

 TO AVOID CONFLICTS WITH PAVING AND SUBGRADE

 PREPERATION. THE CONTRACTOR'S ATTENTION IS DIRECTED

 ESPECIALLY TO SITUATIONS WHERE ROADWAY

 SUPERELEVATION AND/OR SOIL MIXING ARE ANTICIPATED.
- I2. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM
 WATER DRAINAGE IN THE VICINITY OF THE WALL DURING
 CONSTRUCTION. STORMWATER RUNOFF SHALL BE COLLECTED
 AND DISCHARGED AWAY FROM THE WALL AND THE RETAINING
 WALL VOLUME.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
THE NEEL COMPANY ISOGRID

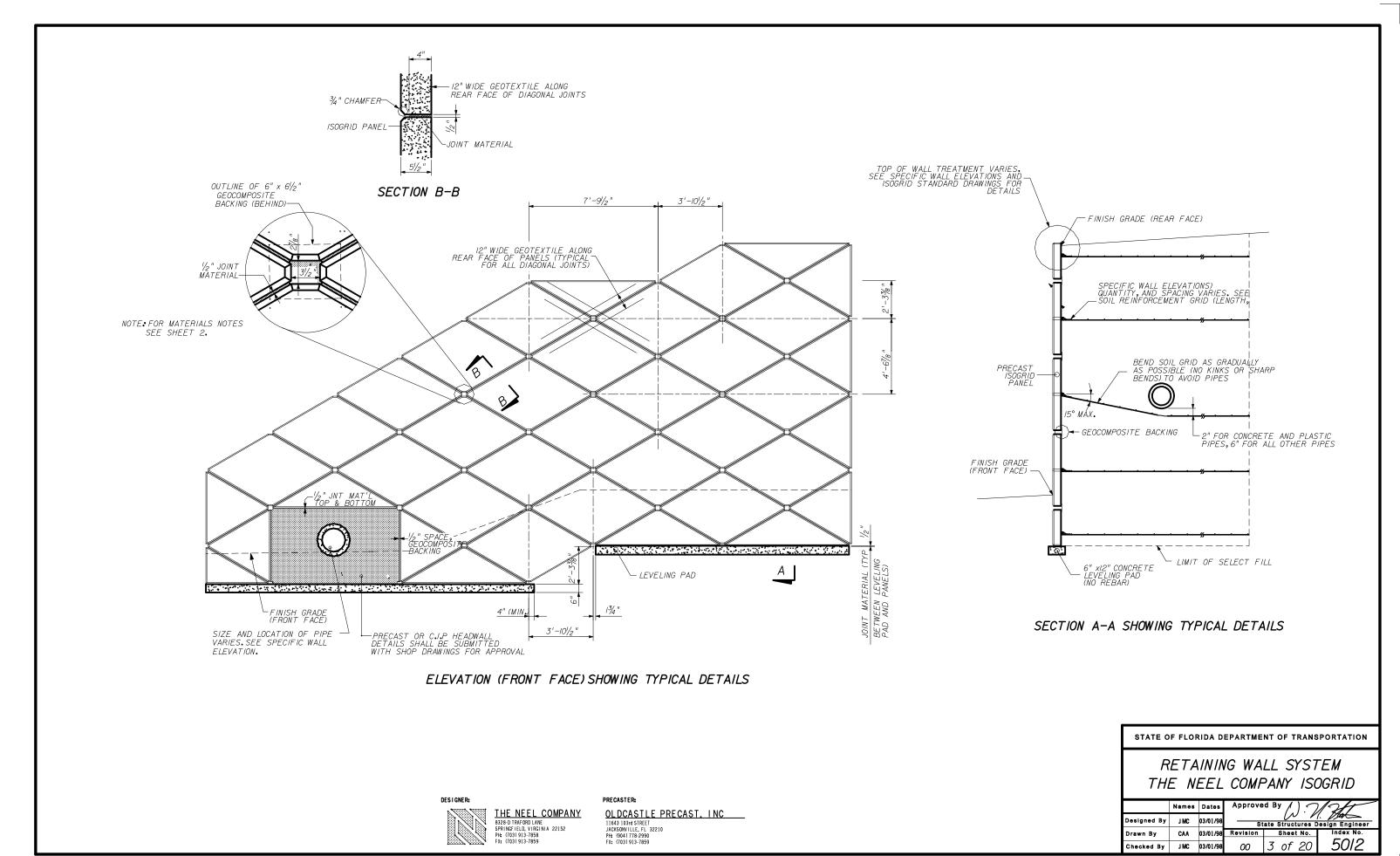
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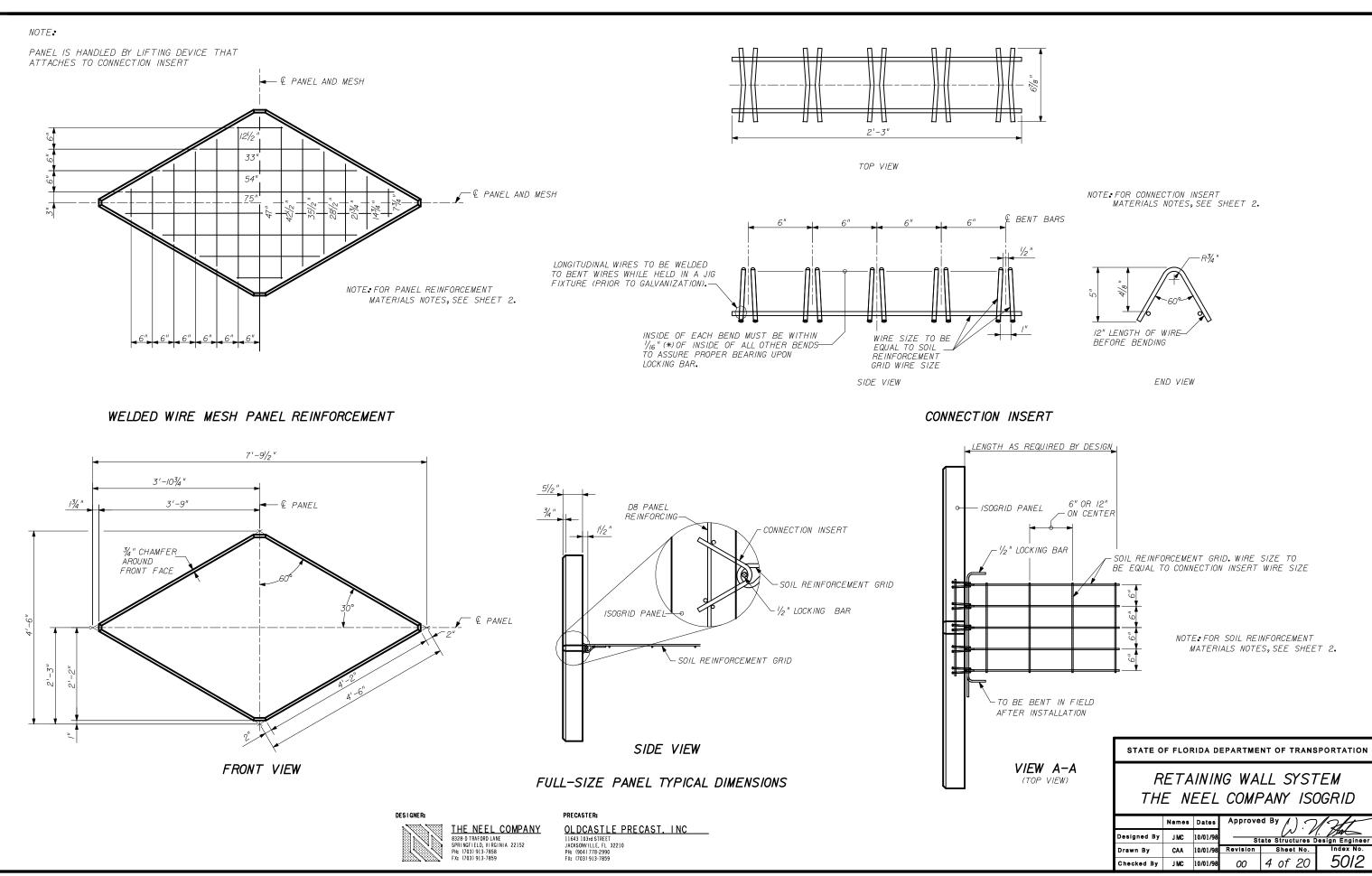
THE NEEL COMPANY
8328-D TRAFORD LANE
SPRINGFIELD, VIRGINIA 22152
PH: (703) 913-7858

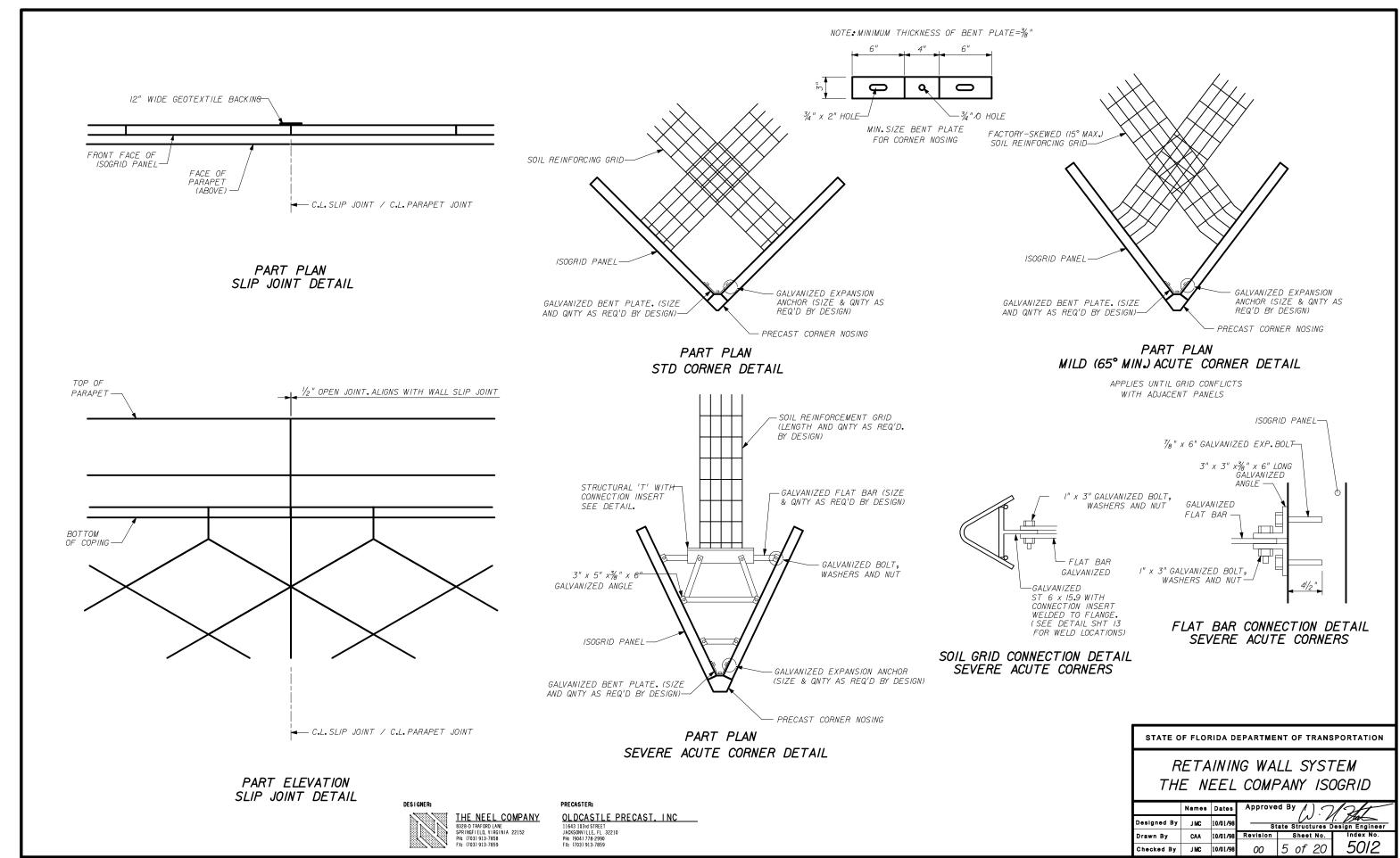
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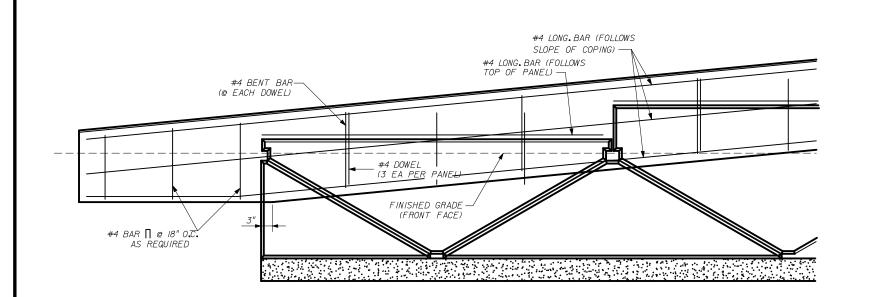
OLDCASTLE PRECAST. INC

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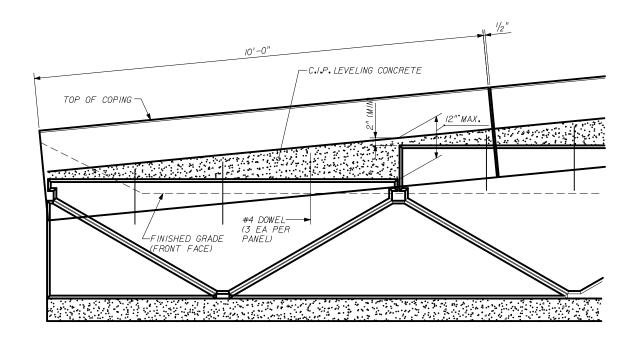




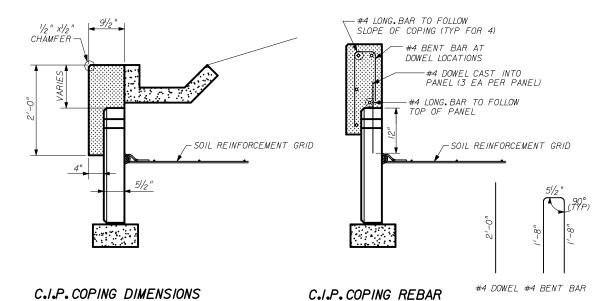


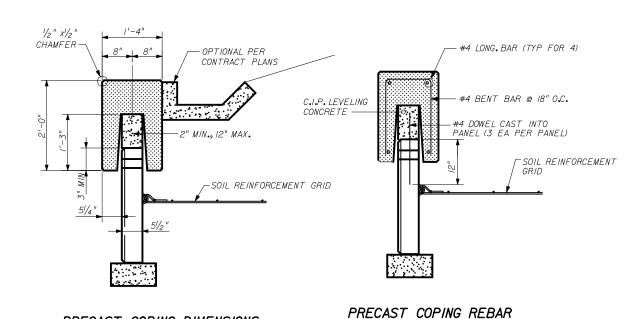


C.I.P. COPING TREATMENT AT BEGINNING/END OF WALLS



PRECAST COPING - PART ELEVATION





RETAINING WALL SYSTEM THE NEEL COMPANY ISOGRID

PRECAST COPING DIMENSIONS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

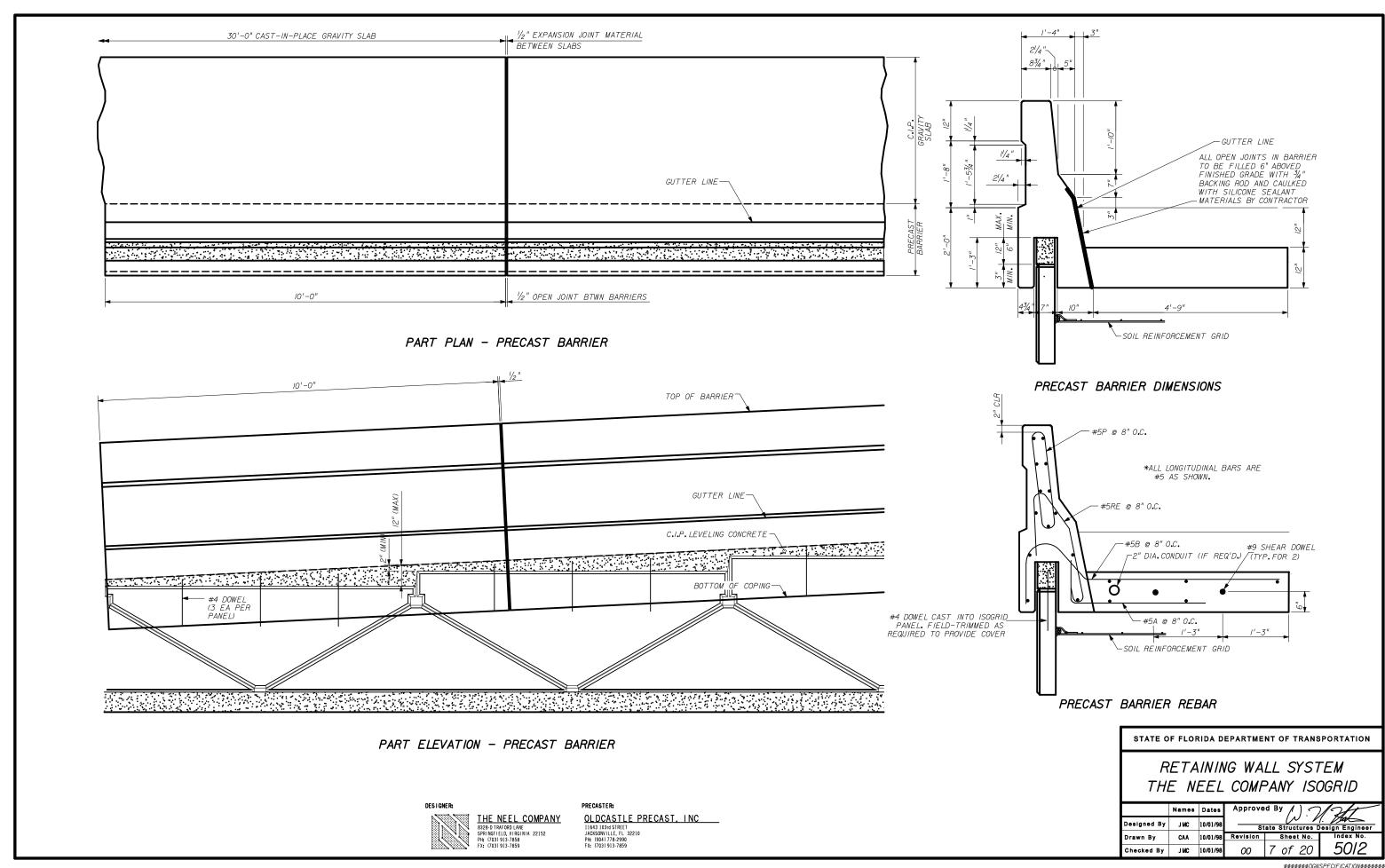
C.I.P. COPING REBAR DETAILS BENT BAR AND DOWEL TO BE FIELD-TRIMMED AS REQUIRED TO PROVIDE MIN OF 2" OF CONCRETE COVER

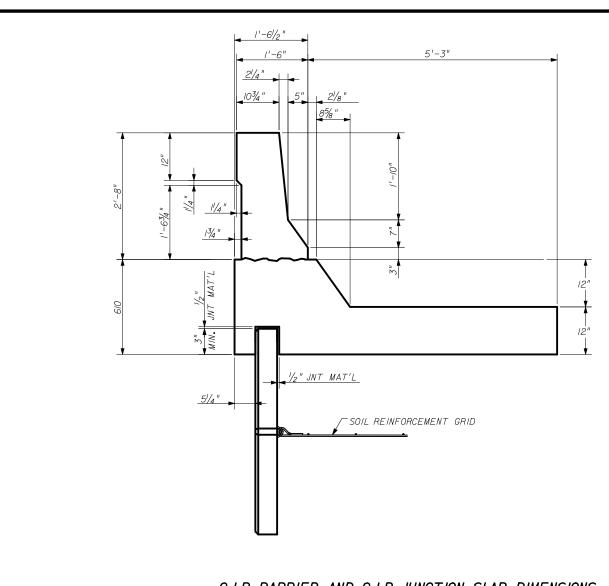
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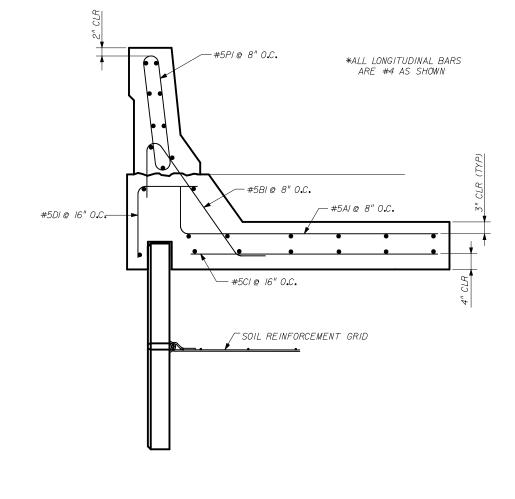
PRECASTER:
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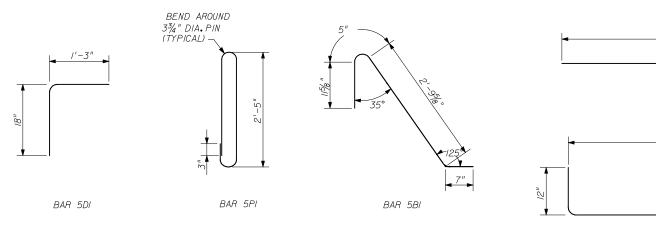




C.I.P. BARRIER AND C.I.P. JUNCTION SLAB DIMENSIONS



C.I.P. BARRIER AND C.I.P. JUNCTION SLAB REBAR



C.I.P. BARRIER REBAR DETAILS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

5'-4"

BAR 5C

5'-4"

BAR 5A

RETAINING WALL SYSTEM
THE NEEL COMPANY ISOGRID

| Names | Dates | Approved By | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...

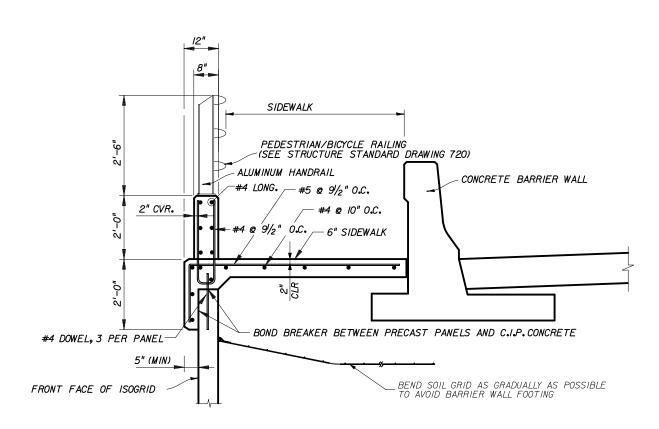
DESIGNER:



PRECASTER:

OLDCASTLE PRECAST, INC

11643 103rd STREET JACKSONVILLE, FL 32210 Pht (904) 778-2990 FX: (904) 778-2992



C.I.P. PARAPET DETAIL W/ HANDRAIL

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM THE NEEL COMPANY ISOGRID

State Structures Design Engineer
Sheet No. Index No. Names Dates Designed By JMC 10/01/98 CAA 10/01/98 9 of 20 Checked By JMC 10/01/98 00

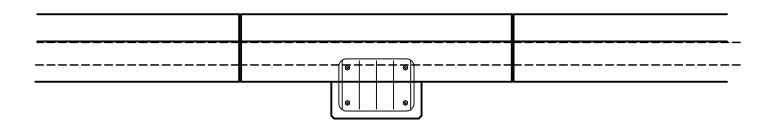
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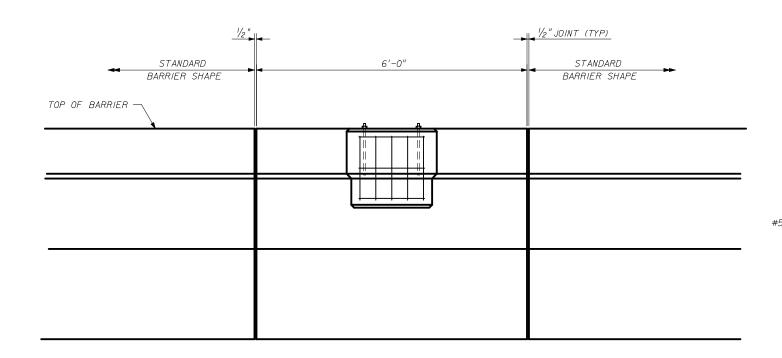
THE NEEL COMPANY

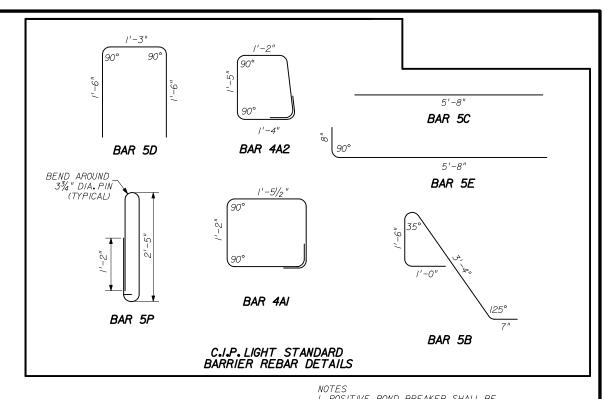
OLDCASTLE PRECAST, INC
11643 103rd STREET
JACKSONVILLE, FL 39210
PH: 19041 1778-2990
FX: 19041 778-2992

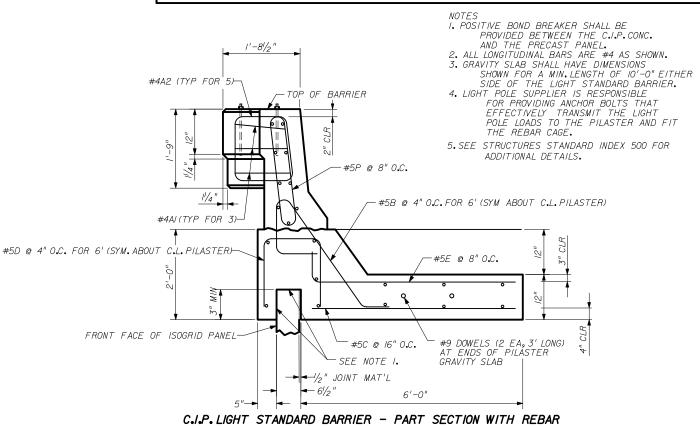
PRECASTER:



C.I.P. LIGHT STANDARD BARRIER - PART PLAN WITH REBAR (BARRIER AND GRAVITY SLAB REBAR OMITTED FOR CLARITY)







C.I.P. LIGHT STANDARD BARRIER - PART ELEVATION (BARRIER AND GRAVITY SLAB REBAR OMITTED FOR CLARITY)

DESIGNER:



THE NEEL COMPANY 8328-D TRAFORD LANE SPRINGFIELD, VIRGINIA 22152 PH: (703) 913-7858 FX: (703) 913-7859

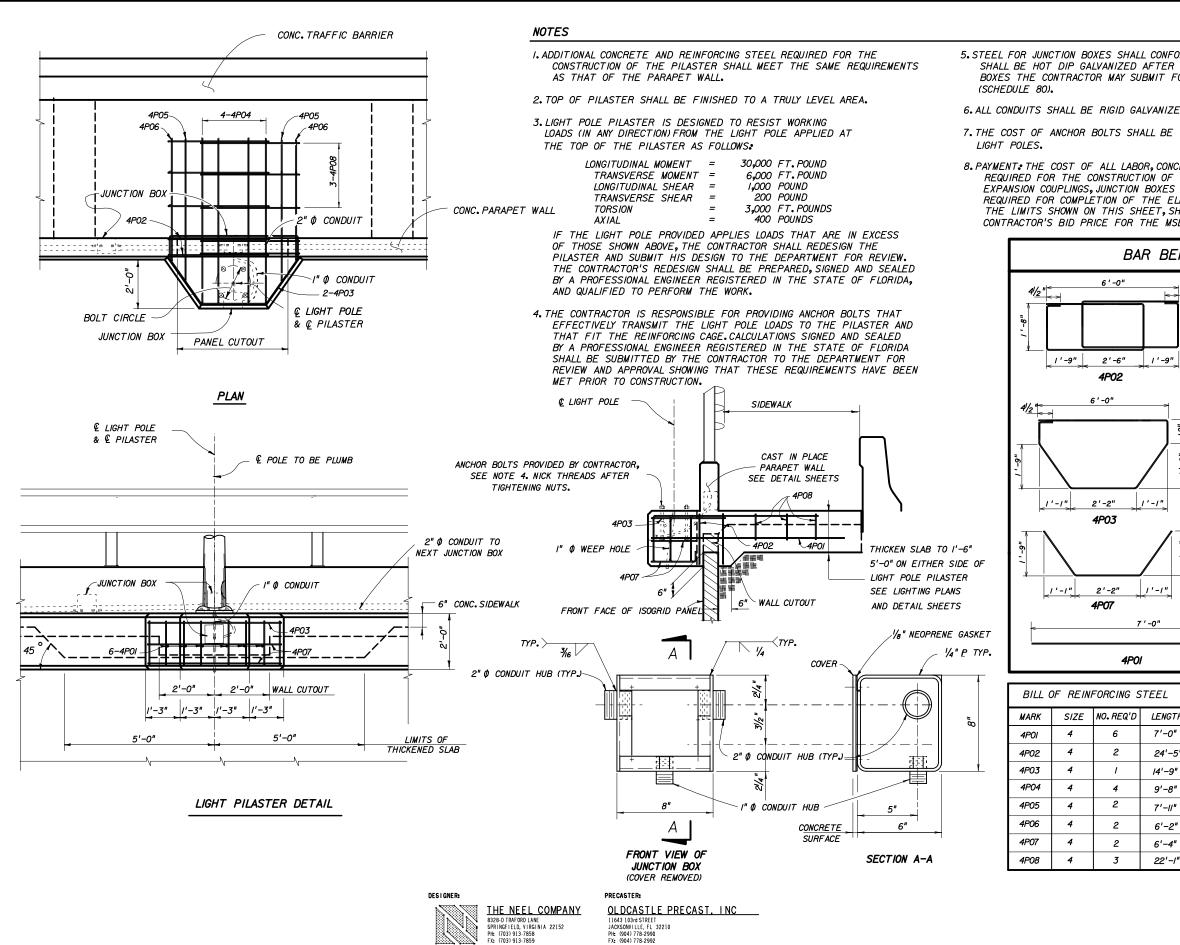
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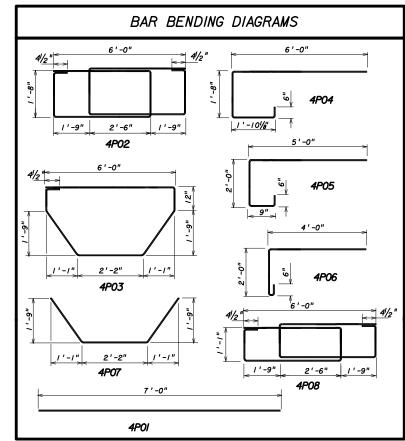
11643 103rd STREET JACKSONVILLE, FL 32210 PH: (904) 778-2990 FX: (904) 778-2992

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

	Names	Dates	Approve	d By /) . つ	12/
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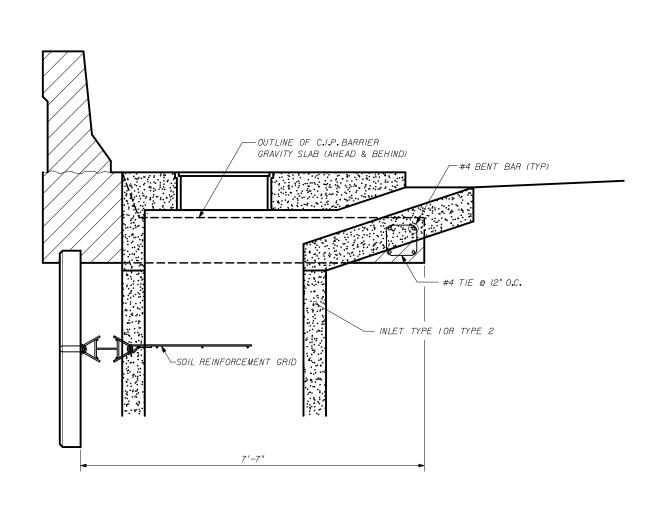
- 5. STEEL FOR JUNCTION BOXES SHALL CONFORM WITH ASTM-A36. THE BOXES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, IN LIEU OF STEEL BOXES THE CONTRACTOR MAY SUBMIT FOR APPROVAL MOLDED P.V.C. BOXES
- 6. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL OR SCHEDULE 80 P.V.C.
- 7. THE COST OF ANCHOR BOLTS SHALL BE INCLUDED IN THE BID PRICE FOR
- 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	/4'-9"					
4P04	4	4	9'-8"					
4P05	4	2	7'-//"					
4P06	4	2	6'-2"					
4P07	4	2	6'-4"					
4P08	4	3	22'-1"					

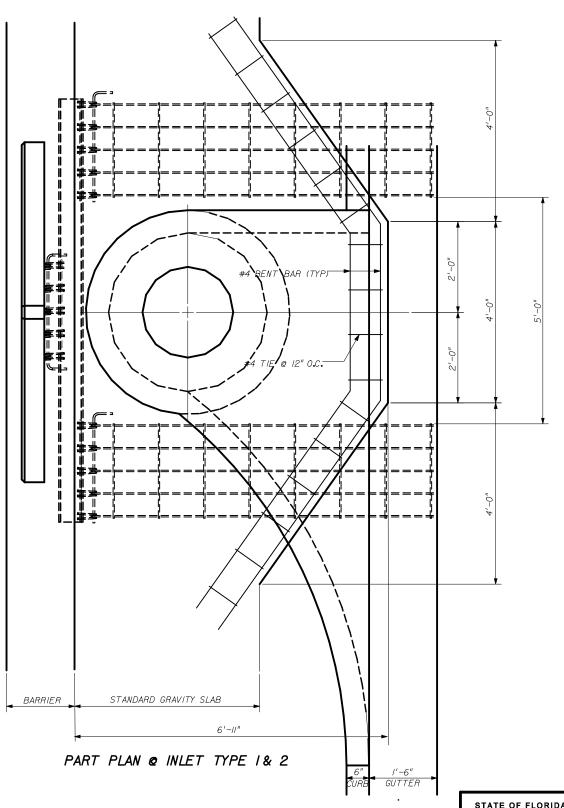
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

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PART SECTION @ INLET TYPE 1 & 2

NOTE: GRID RELOCATION HARDWARE, SEE SHEET 13 OF 20 FOR DETAILS



GRAVITY SLAB AT INLET TYPE 1 & 2

DESIGNER:

TH 8328 SPRII PH: (

THE NEEL COMPANY

8328-0 TRAFORO LANE

SPRI NGF | FLID, YI RGI NI A 22152

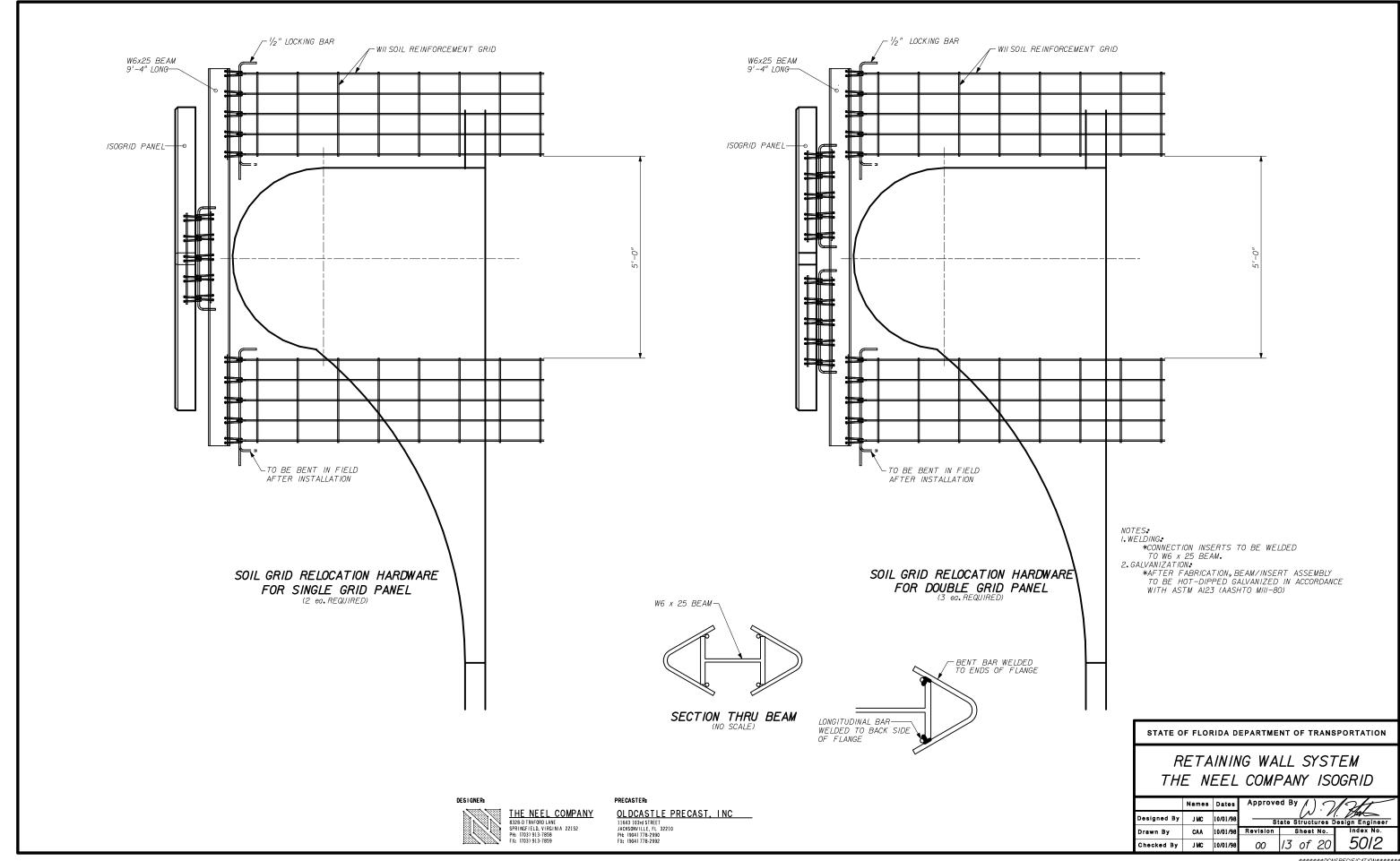
PH: (703) 913-7859

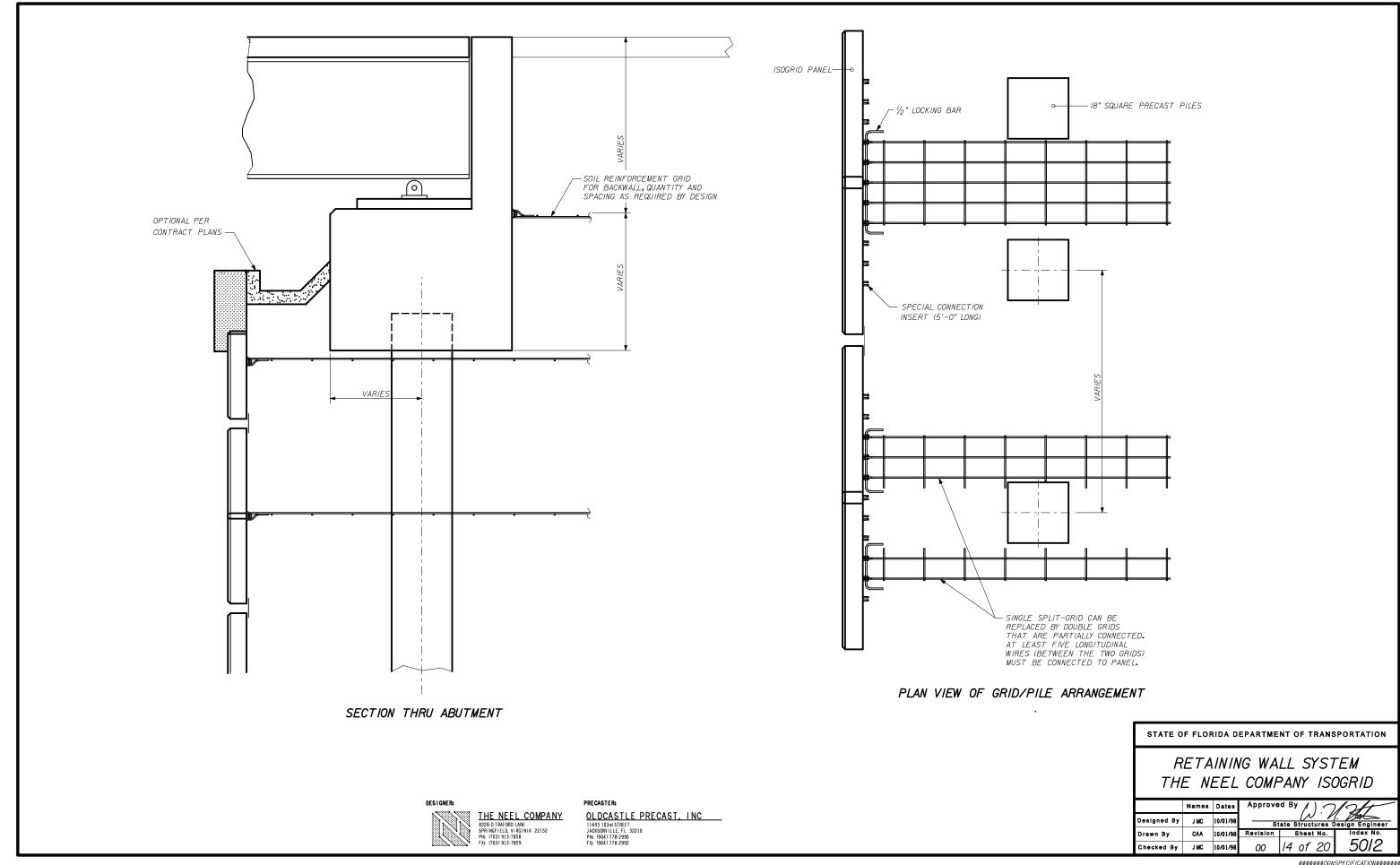
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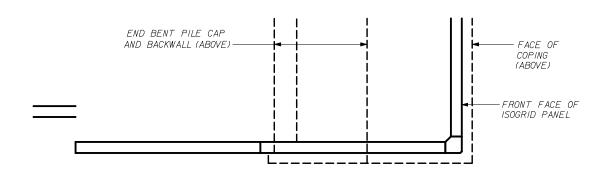
PRECASTER OLDCASTLE PRECAST, INC

11643 103rd STREET JACKSONVILLE, FL 32210 PH: 1904) 778-2990 FX: 1904) 778-2992 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

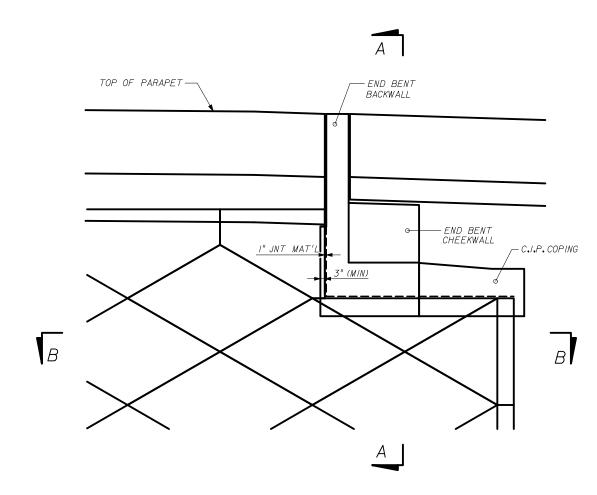
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wn By	CAA	10/01/98	Revision	Sheet No.	Index No.		
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SECTION B-B STEM / END BENT PILE INTERFACE



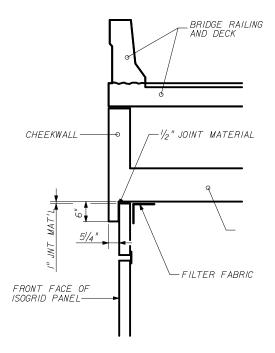
PART ELEVATION SHOWING WINGWALL / END BENT INTERFACE

DESIGNER:



PRECASTER:

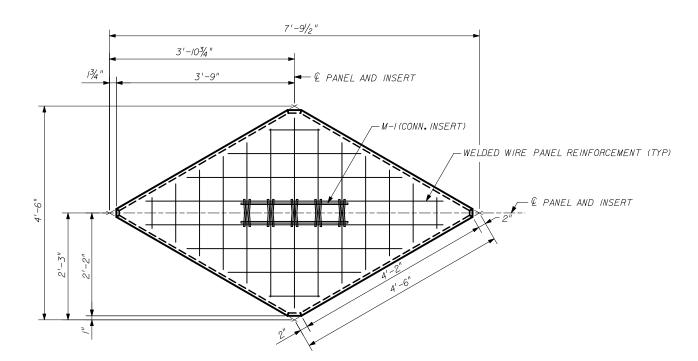
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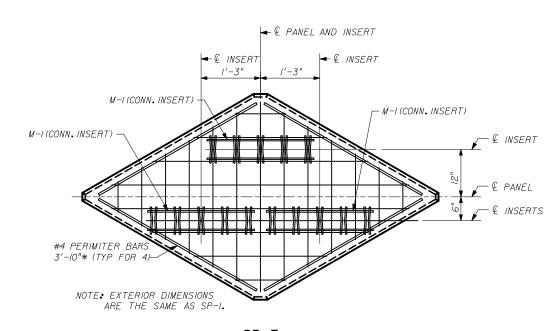
SECTION A-A SECTION THRU PILE CAP

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

	Names	Dates	Approve	ed By/)	12/
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FULL-SIZE PANEL - ONE GRID ELEVATION (REAR FACE)



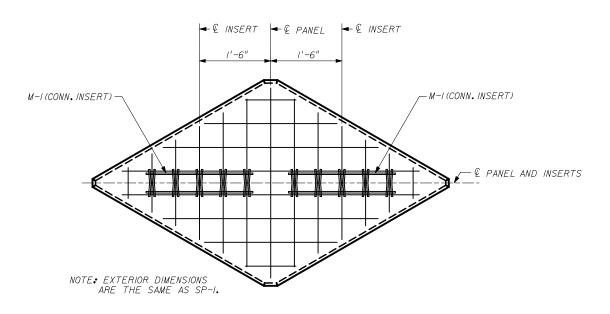
SP-3 FULL-SIZE PANEL - THREE GRIDS ELEVATION (REAR FACE)

DESIGNER:

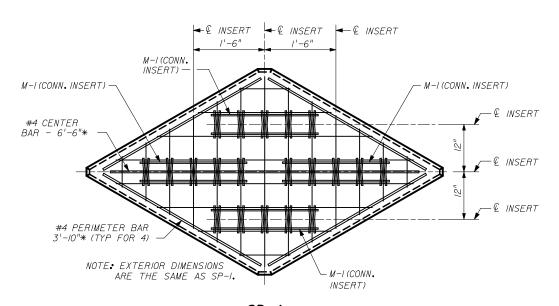


PRECASTER:

OLDCASTLE PRECAST, INC
11643 103rd STREET
JACKSONVILLE, FL 32210
PH: 1904 1778-2990
FX: 19041 778-2992



SP-2 FULL-SIZE PANEL - TWO GRIDS ELEVATION (REAR FACE)



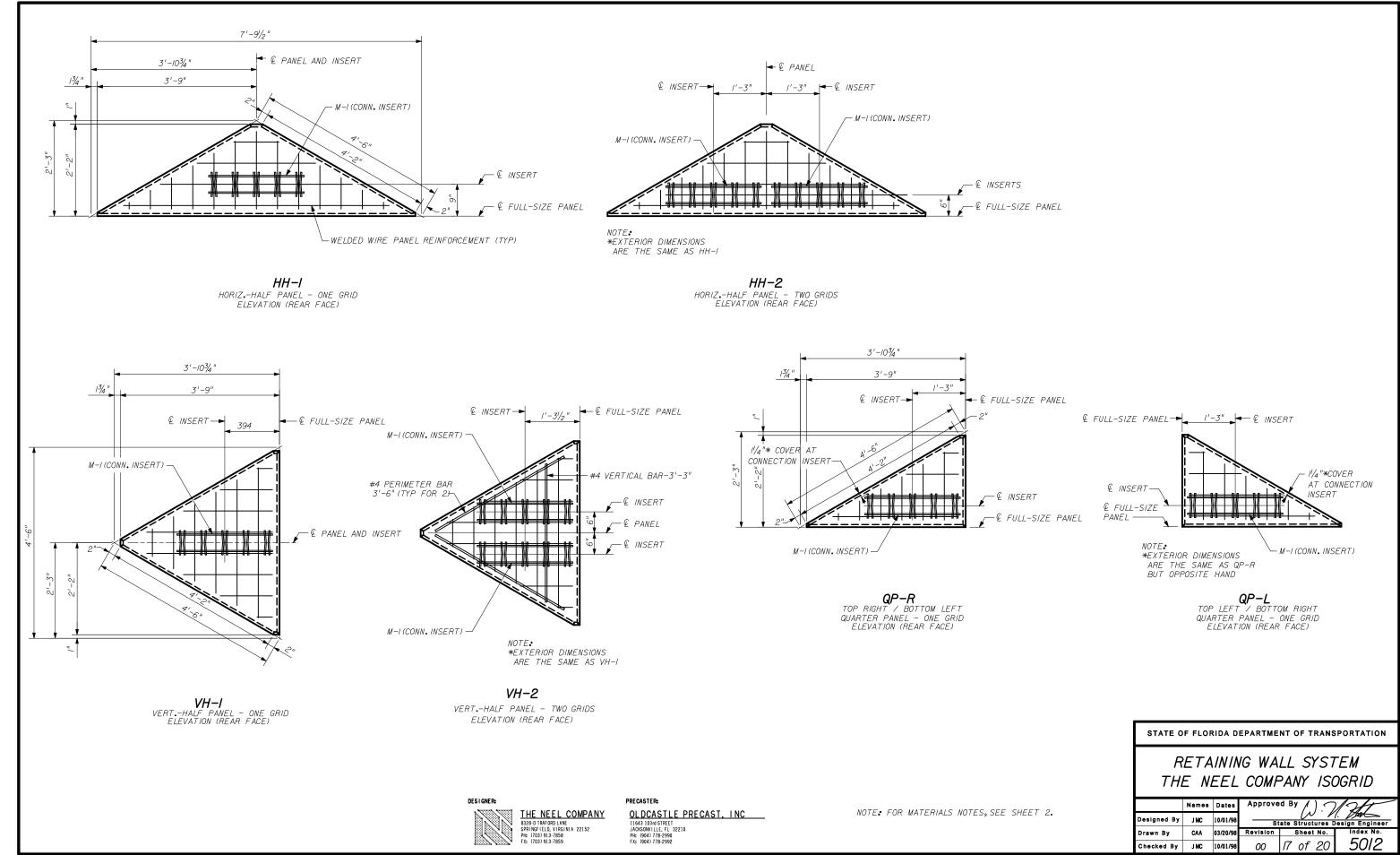
SP-4 FULL-SIZE PANEL - FOUR GRIDS ELEVATION (REAR FACE)

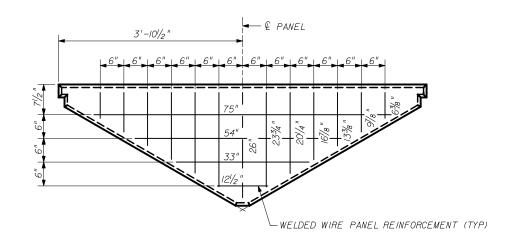
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM THE NEEL COMPANY ISOGRID

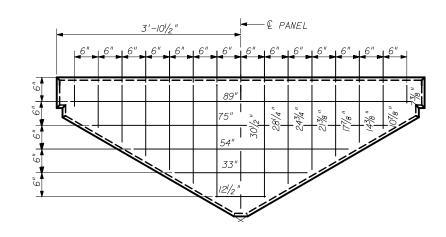
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NOTE: FOR MATERIALS NOTES, SEE SHEET 2.

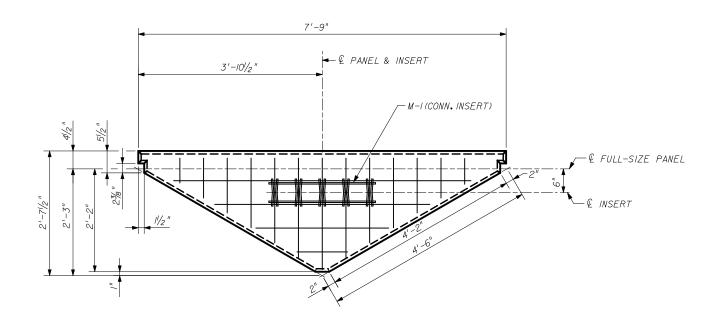




WELDED WIRE MESH PANEL REINFORCEMENT - X-I PANEL ELEVATION (REAR FACE)

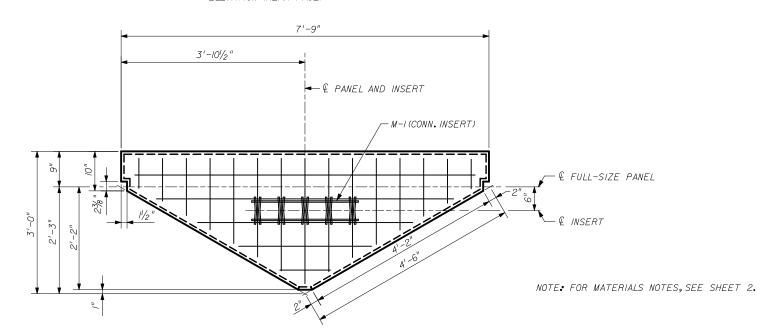


WELDED WIRE MESH PANEL REINFORCEMENT - X-2 PANEL ELEVATION (REAR FACE)



4/2" RISER - ONE GRID

ELEVATION (REAR FACE)



X-2 9" RISER PANEL - ONE GRID ELEVATION (REAR FACE)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM THE NEEL COMPANY ISOGRID

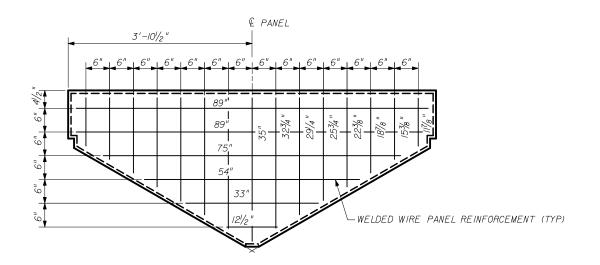
	Names	Dates	Approve	d By /)	12/
Designed By	J MC	10/01/98	St	ate Structures D	esign Engineer
Drawn By	CAA	10/01/98	Revision	Sheet No.	Index No.
Checked By	J MC	10/01/98	00	18 of 20	5012

DESIGNER:



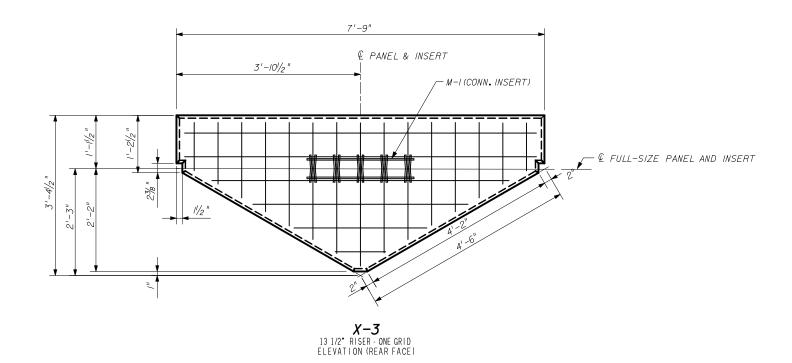
PRECASTER:

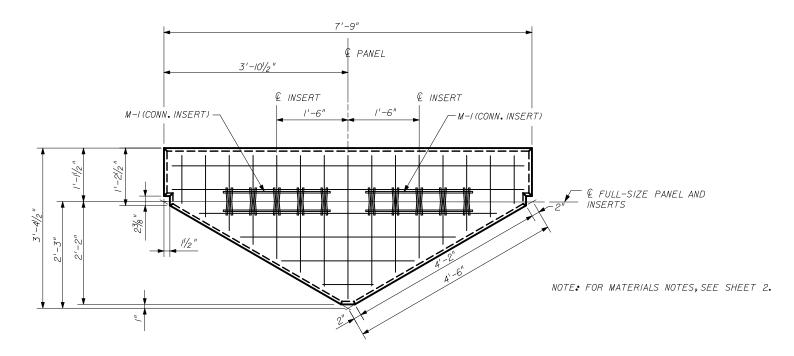
OLDCASTLE PRECAST, INC
11643 103rd STREET
JACKSONVILLE, FL 32210
Pik: 1904.1778-2990
FX: 19041 778-2992



WELDED WIRE MESH PANEL REINFORCEMENT - X-3 AND X-3(2) PANELS

ELEVATION (REAR FACE)





X-3 (2) 13 1/2" RISER – TWO GRIDS ELEVATION (REAR FACE)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

RETAINING WALL SYSTEM
THE NEEL COMPANY ISOGRID

DES I GNER:

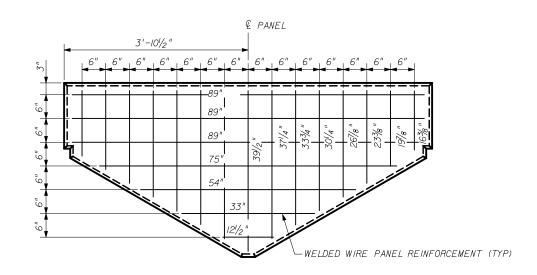


THE NEEL COMPANY

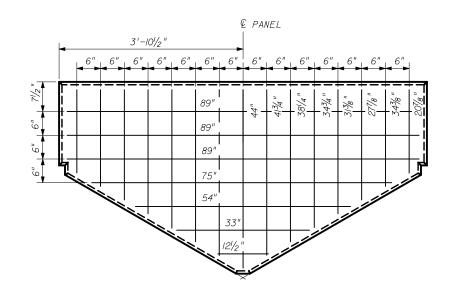
8328-D TRAFORD LANE
SPRINGFIELD, VIRGINIA 22152
PH: (7031 913-7858
FX: (7031 913-7858

PRECASTER:

OLDCASTLE PRECAST, INC
11643 103rd STREET
JACKSOWILLE, FL 32210
PR: (904) 778-2990
EX: (904) 778-2992



WELDED WIRE MESH PANEL REINFORCEMENT - X-4 PANEL ELEVATION (REAR FACE)



WELEDE WIRE MESH PANEL REINFORCEMENT - X-5 PANEL ELEVATION (REAR FACE)

DESIGNER:



PRECASTER:

OLDCASTLE PRECAST, INC

11643 103rd STREET
JACKSONVILLE, FL 32210
PR: (9041 778-2990
FX: (9041 778-2992

NOTE: FOR MATERIALS NOTES, SEE SHEET 2.

7'-9"

3'-IOI/2"

© PANEL

(INSERT

(I'-6"

I'-6"

M-I (CONN. INSERT)

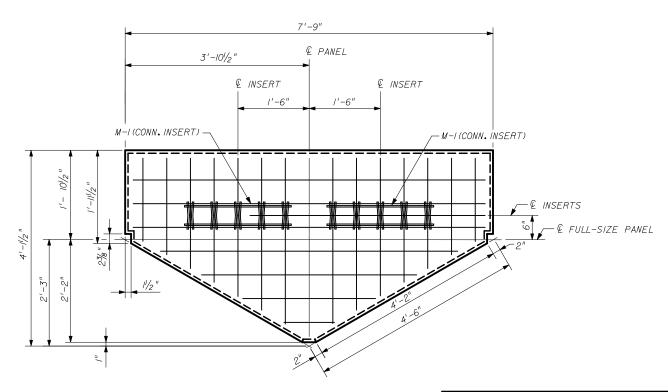
M-I (CONN. INSERT)

AND INSERT

AND INSERT

AND INSERT

IB" RISER - TWO GRIDS
ELEVATION (REAR FACE)



X-5 22½" RISER – TWO GRIDS ELEVATION (REAR FACE)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

	Names	Dates	Approve	d By /) 🦳	12/
Designed By	J MC	10/01/98	St	ate Structures I	Oesign Engineer
Drawn By	CAA	10/01/98	Revision	Sheet No.	Index No.
Checked By	J MC	10/01/98	00	20 of 20	5012