NOTES

- 1. Work this Index with the Noise Wall Data Tables, and Wall Control Drawings in the Plans
- 2. Construct Noise Walls in accordance with the requirements of Specification Section 534, and Augers Cast Piles in accordance with Specification Section 455.
- 3. Field verify the location of all overhead and underground services shown in the Wall Control Drawings.
- 4. Wall Height is the nominal height of the walls above finished grade. The Wall Embedment Depth for design is 1'-0". The actual embedment depth may vary plus or minus 6" along the length of the wall.
- 5. Post Spacing in this Index are nominal, and are measured from centerline to centerline of the auger cast piles. Actual post spacing may vary as shown in the Wall Control Drawings.
- 6. Panels
 - A. The sum of the individual stacked panel heights is the Wall Height plus 1'-0" (embedment depth).
 - B. Where special graphics are required, locate the horizontal panel joints outside of the graphics. Where possible, hold horizontal panel joints at a constant elevation.
 - C. Side Installed Panels are only permitted when reduced overhead clearance between posts prohibits installing panels from the top.
 - 1. For Flush Face panels, install panel into posts from the roadway (front face) of the wall. Recessed panels may be installed from the back face of the wall.
 - 2. After panels are installed and centered between posts, grout between both panel ends and the adjoining posts (see Sheets 4 and 5 for details).
 - D. Individual panel heights should be between 6'-0"and 12'-0" tall. The minimum panel height is 4'-0"and may be used where overhead clearance is limited, or where graphic panels are required on shorter walls.
- 7. Concrete And Grout:
 - A. Concrete Class and Compressive Strength for:
 - 1. Precast Panels, Posts, and Post caps: Class IV (fc' = 5500 psi)
 - 2. Cast-In-Place Collars: Class IV (fc' = 5500 psi)
 - B. Minimum Compressive Strength for form removal and handling of posts and panels:
 - 1. 2,500 psi for horizontally cast post and panels
 - 2. 2,000 psi for vertically cast panels or when tilt-up tables are used for horizontally cast panels.
 - A. Grout for Auger Cast Piles:
 - 1. Maximum Working Compressive Strength = 2,000 psi
 - 2. Minimum 28 day strength = 5,000 psi
- 8. Reinforcing Steel:
 - A. In addition to the requirements of Specification Section 415, tie post and pile stirrups at the following locations as a minimum:
 - 1. Post Stirrups Tie at all four corner bars and at every third interior bar intersection.
 - 2. Pile Stirrups Tie to the main vertical reinforcing at alternate intersections for circular configurations and at the four corners and at every third interior bar intersection for rectangular configurations.
 - B. Provide 2" concrete cover unless noted otherwise.
- 9. Casting Tolerances for precast panels and posts:
 - A. Overall Height and Width: $+/-\frac{1}{4}$ "
 - B. Thickness: +/- 1/4"
 - C. Plane of side mold: +/- 1/16"
 - D. Openings: +/- 1/2"

∠ DESCRIPTION:

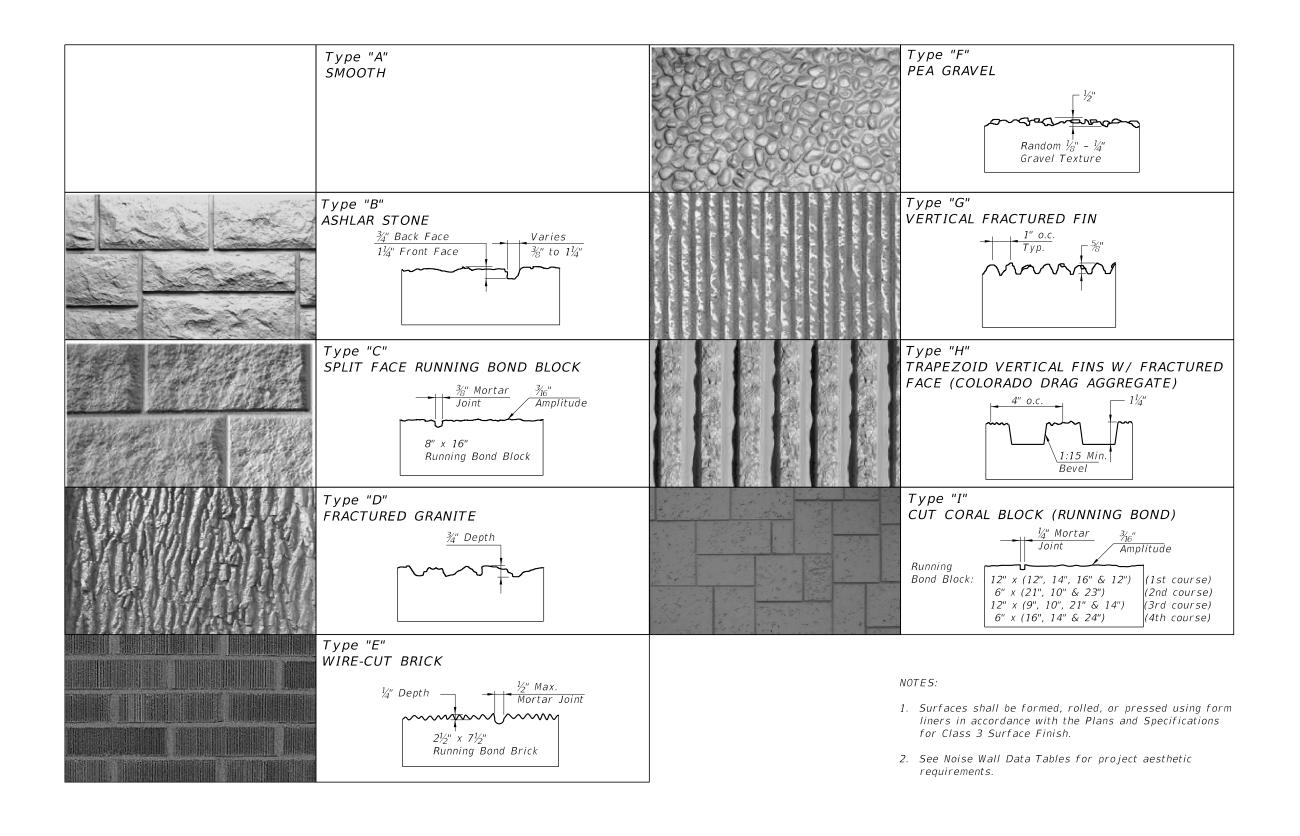
- E. Out of Square: 1/8" per 6 ft., but not more than 3/8" total along any side
- F. Warping: 1/16"per foot distance to nearest corner
- G. Bowing: 1/240 panel dimension
- H. Surface Smoothness for Type "A" Smooth Surface Texture Option: +/- 1/16"

- 10. Provide Fiber Reinforced Neoprene pads with a Durometer Hardness between Grade 50 and 80; or Plain Neoprene Pads with a minimum Durometer Hardness of Grade 50 in accordance with Specification Section 932.
 - A. For Collar Bearing Points provide:
 - 1. $4"x \ 4"x \ \frac{1}{2}"$ Fiber Reinforced Pads;
 - 2. Plain Pads with a may be substituted for Fiber Reinforced Pads when sufficient bearing area is available on the concrete collar for the following:
 - i. 10' Post Spacing: 4"x 4"x ½"
 - ii. 20' Post Spacing and Wall Height < 17 feet: 4"x 4"x 1/3"
 - iii. 20 Post Spacing and Wall Height > 17 feet: $4"x \ 5"x \ \frac{1}{2}$ "
 - B. At panel bearing points between stacked panels, use Plain or Fiber Reinforced Neoprene Pads.

GENERAL NOTES

LAST REVISION 07/01/14





TEXTURE OPTIONS

REVISION 07/01/13

2015 DESIGN STANDARDS

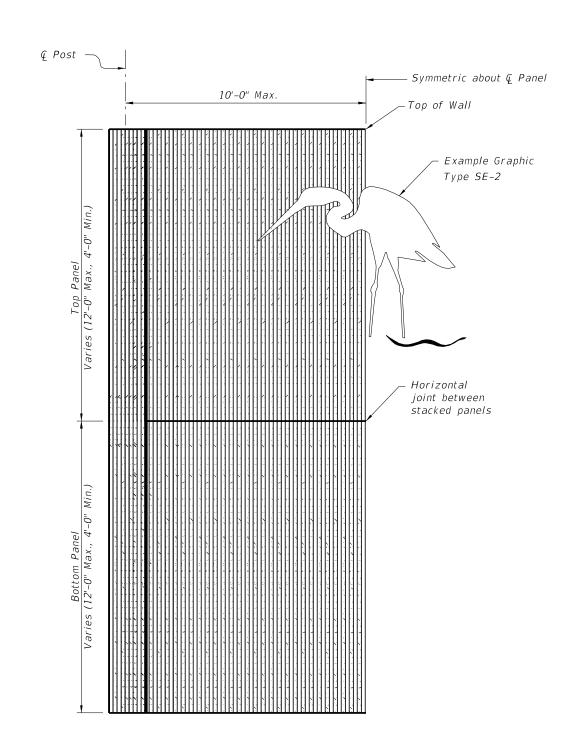
PRECAST NOISE WALLS

INDEX NO. 5200

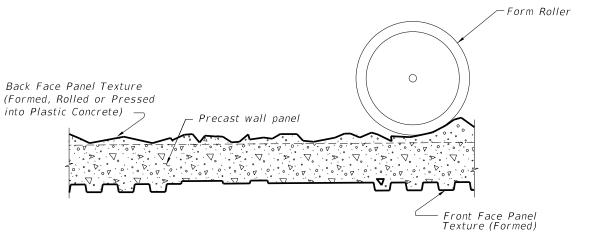
NO. 2 of 16

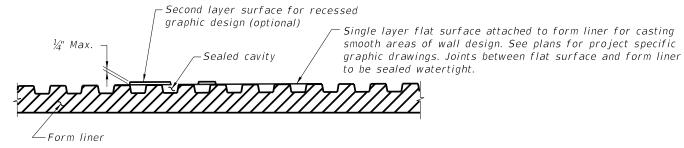
SHEET

DESCRIPTION:



HALF ELEVATION (Front Face Post and Panel Texture Type "H" shown) (Graphic Type SE-2 shown) (Two stacked panels shown, three stacked panels similar)





TYPICAL FORMING DETAIL (Front Face Panel Texture Type "H" shown) (Back Face Panel Texture Type "D" shown) (Post Forming Details Similar)

NOTES:

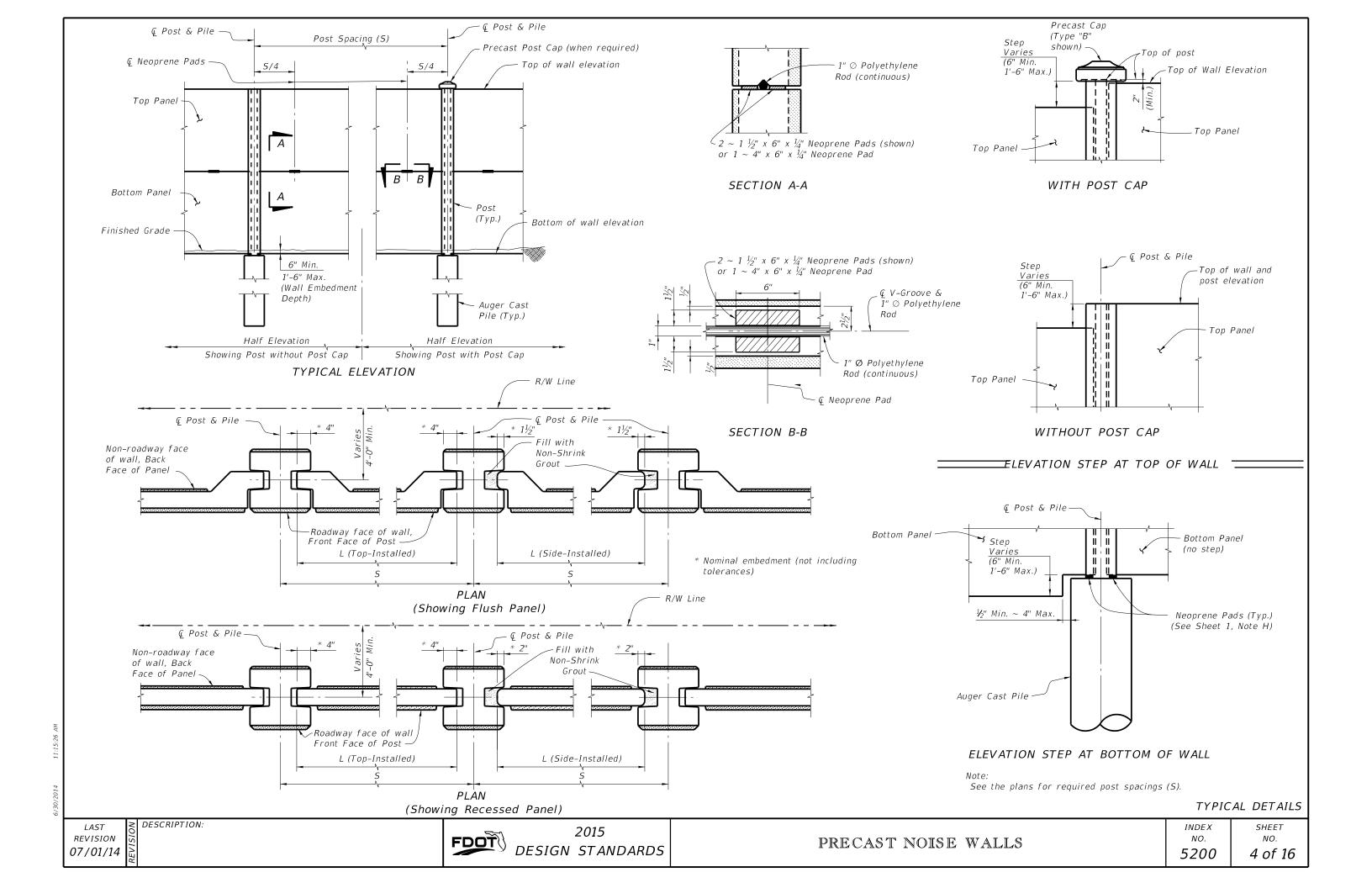
- 1. Submit specific form liner samples for approval by the Engineer.
- 2. Textures and graphics shown are for demonstration purposes only. See Noise Wall Data Tables in the plans for project specific texture and graphic requirements.

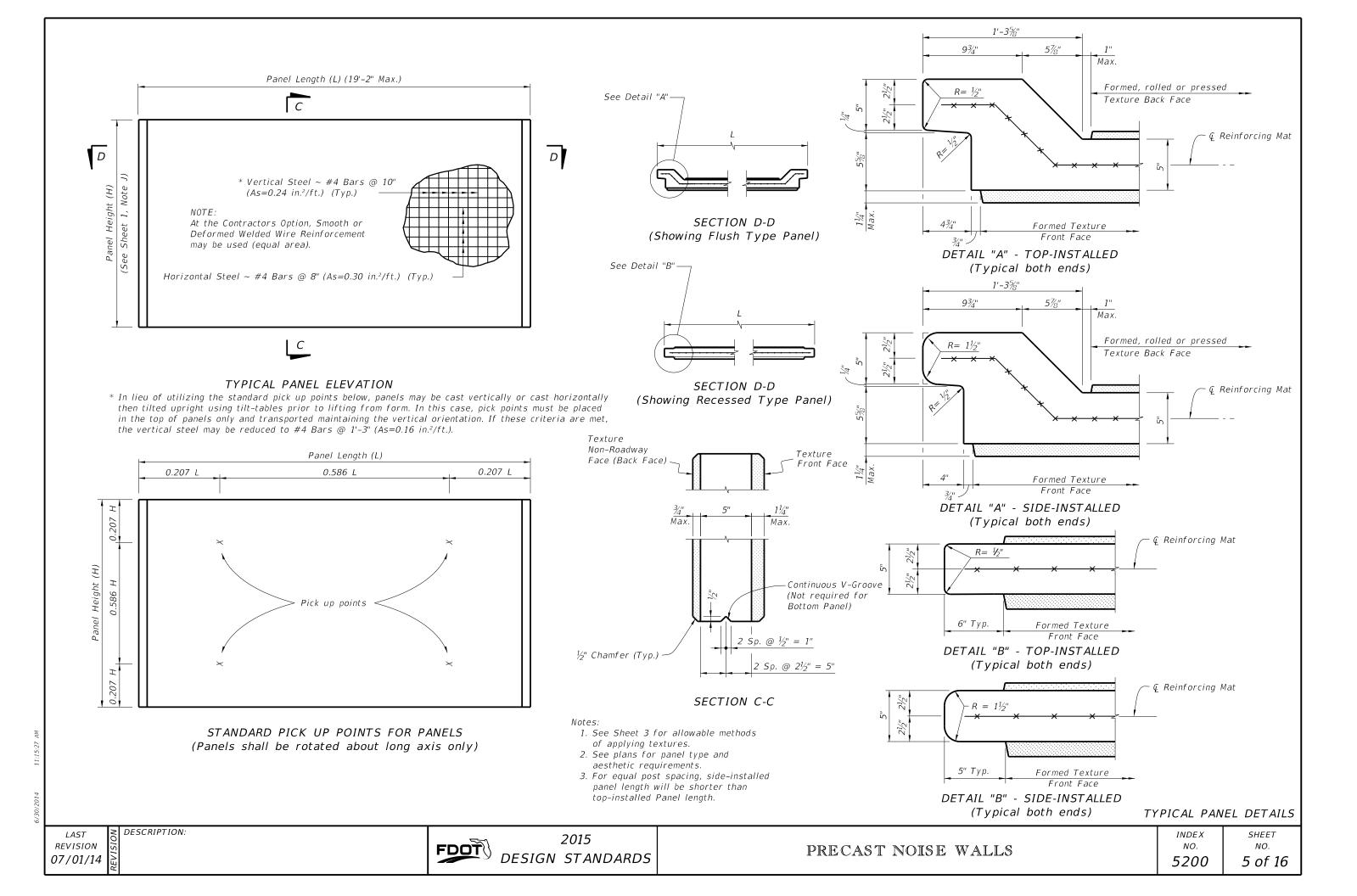
GRAPHICS & TEXTURE DETAILS

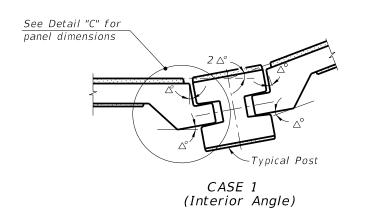
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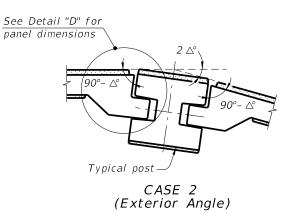
2015 FDOT DESIGN STANDARDS INDEX SHEET

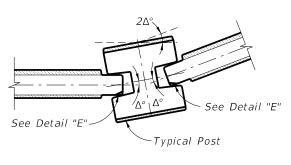
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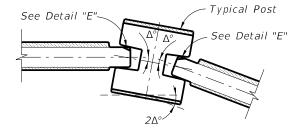






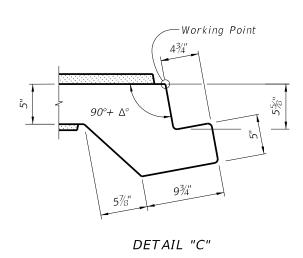


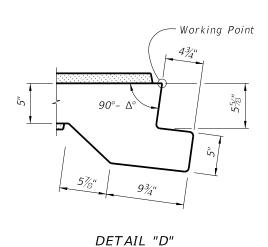


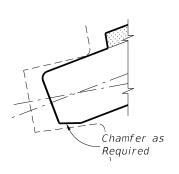


CASE 1 (Interior Angle)

CASE 2 (Exterior Angle)







DETAIL "E" (Back Face Chamfer Shown Front Face Chamfer Similar)

The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle (2 Δ °) between panels exceeds 7°.

The shop drawings shall include specific pivoting details of panel ends at locations where the deflection angle (2 Δ °) between panels exceeds 20°.

PIVOTING DETAILS _ (Recessed Type Panel)

PIVOTING DETAILS _ (Flush Type Panel)

TYPICAL PANEL DETAILS

LAST REVISION 07/01/13

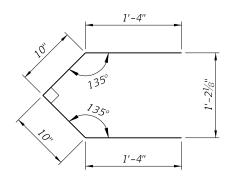
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2015 DESIGN STANDARDS

PRECAST NOISE WALLS

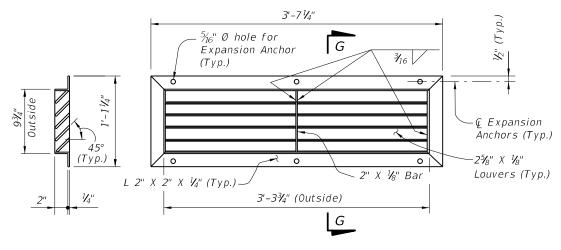
INDEX SHEET NO. NO. 5200 6 of 16 * Hole Types A, B, C and D refer to distance from bottom of panel to center of opening. See Wall Control Drawings in the plans.

DRAINAGE HOLES TYPES A, B, C & D
(Front Face of Wall Shown)
(Two Holes Shown,
One Hole Similar)



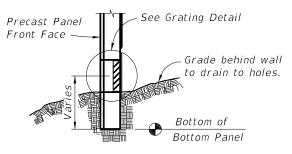
BAR A2 (Pair) Bar Length = 4'-4"

🗖 BAR BENDING DETAILS (#3 Bars) 💳



SECTION G-G

GRATING DETAIL



SECTION F-F

GRATING NOTES:

- 1. Grating shall be ASTM A36 steel welded in accordance with the current edition of ANSI/AWS D1.1 Steel Welding Code. Hot-dip galvanize grate after fabrication in accordance with Specification Section 962.
- 2. Expansion Anchors: Use $\frac{V_4}{4}$ Ø x 3" ASTM A307, vandal resistant, hot-dip galvanized expansion anchors to connect grates to panels.
- 3. Grating mounted to back face of wall.

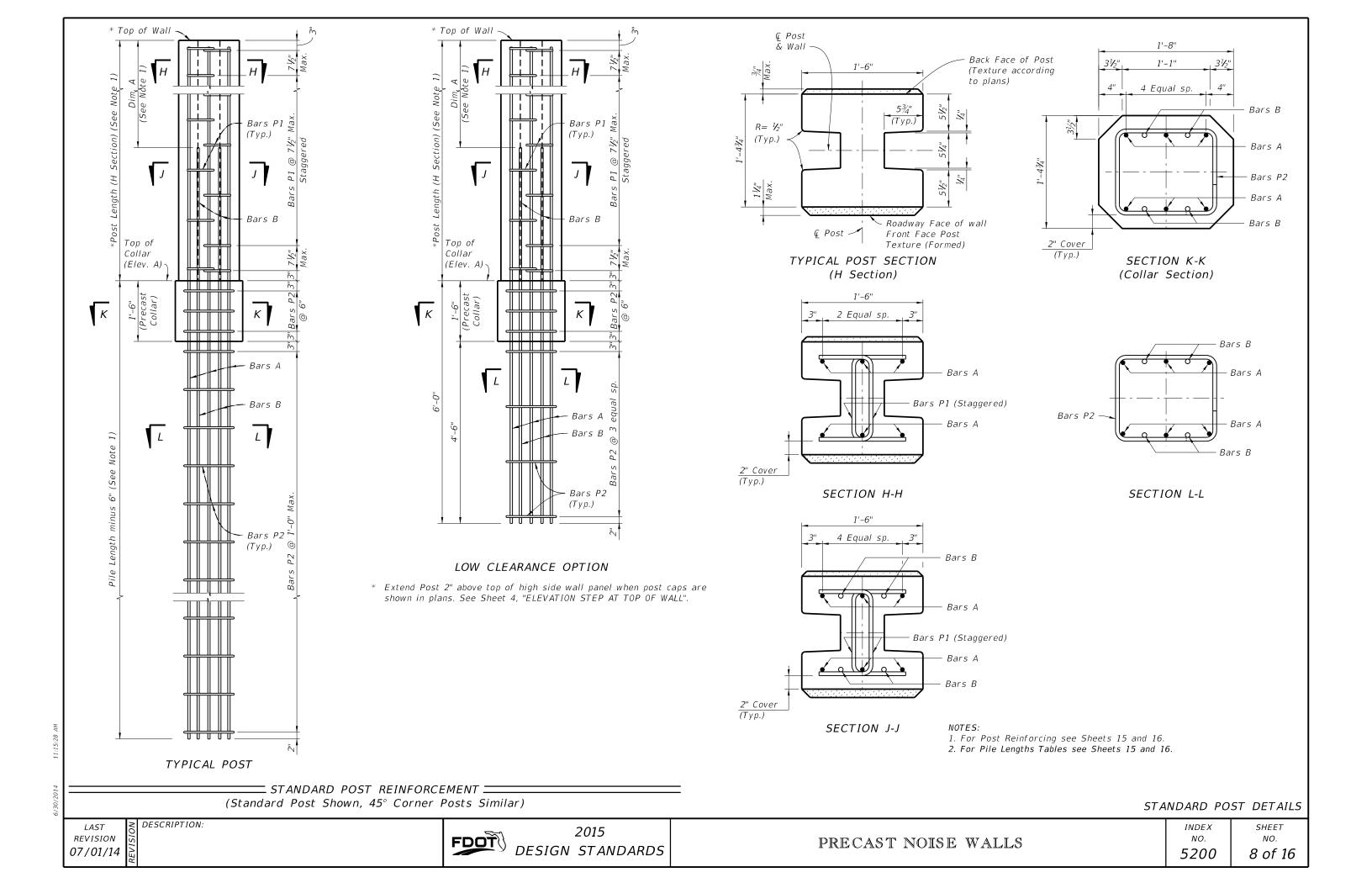
FIRE HOSE ACCESS & DRAINAGE HOLE DETAILS

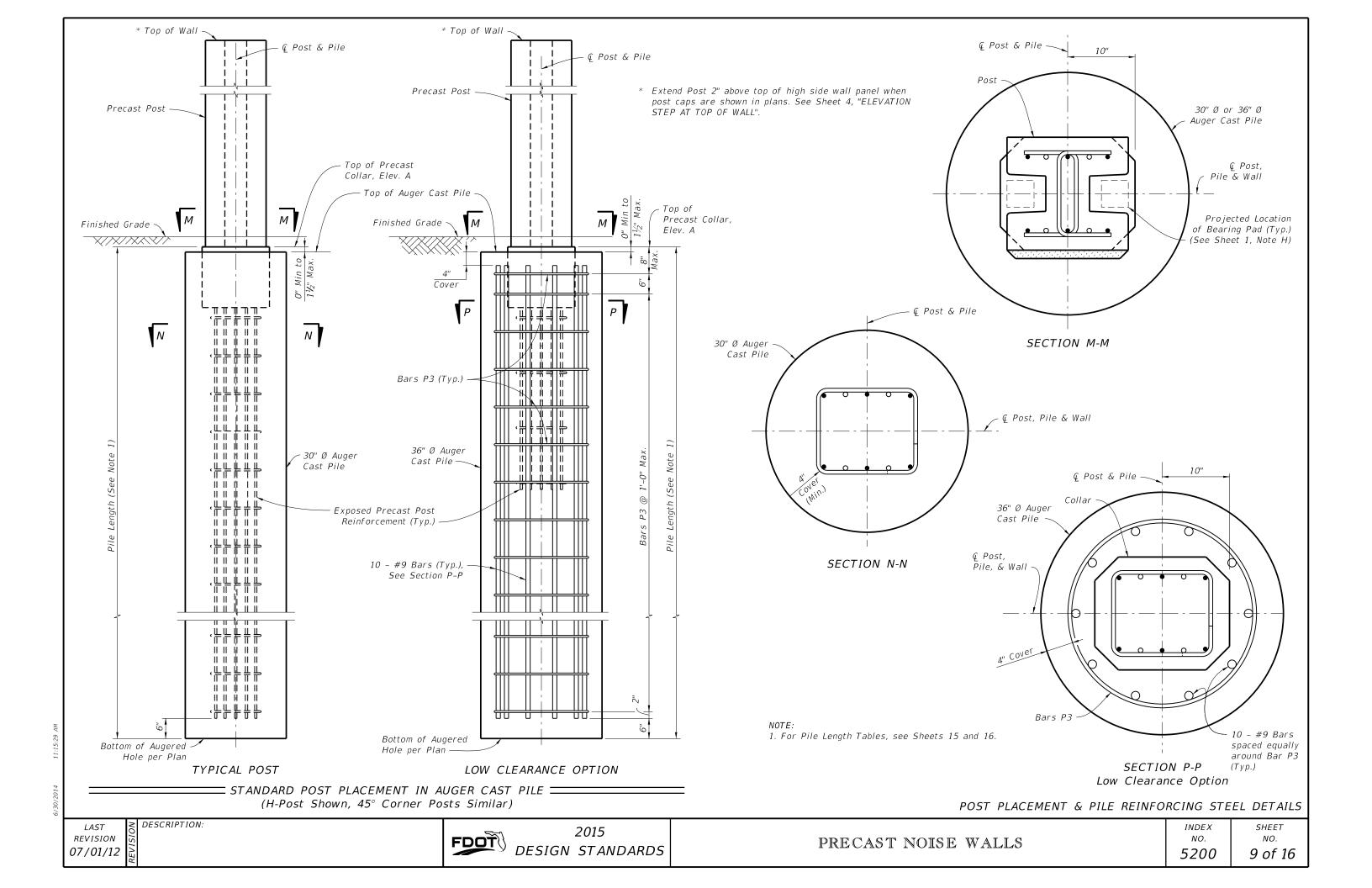
LAST REVISION 07/01/14

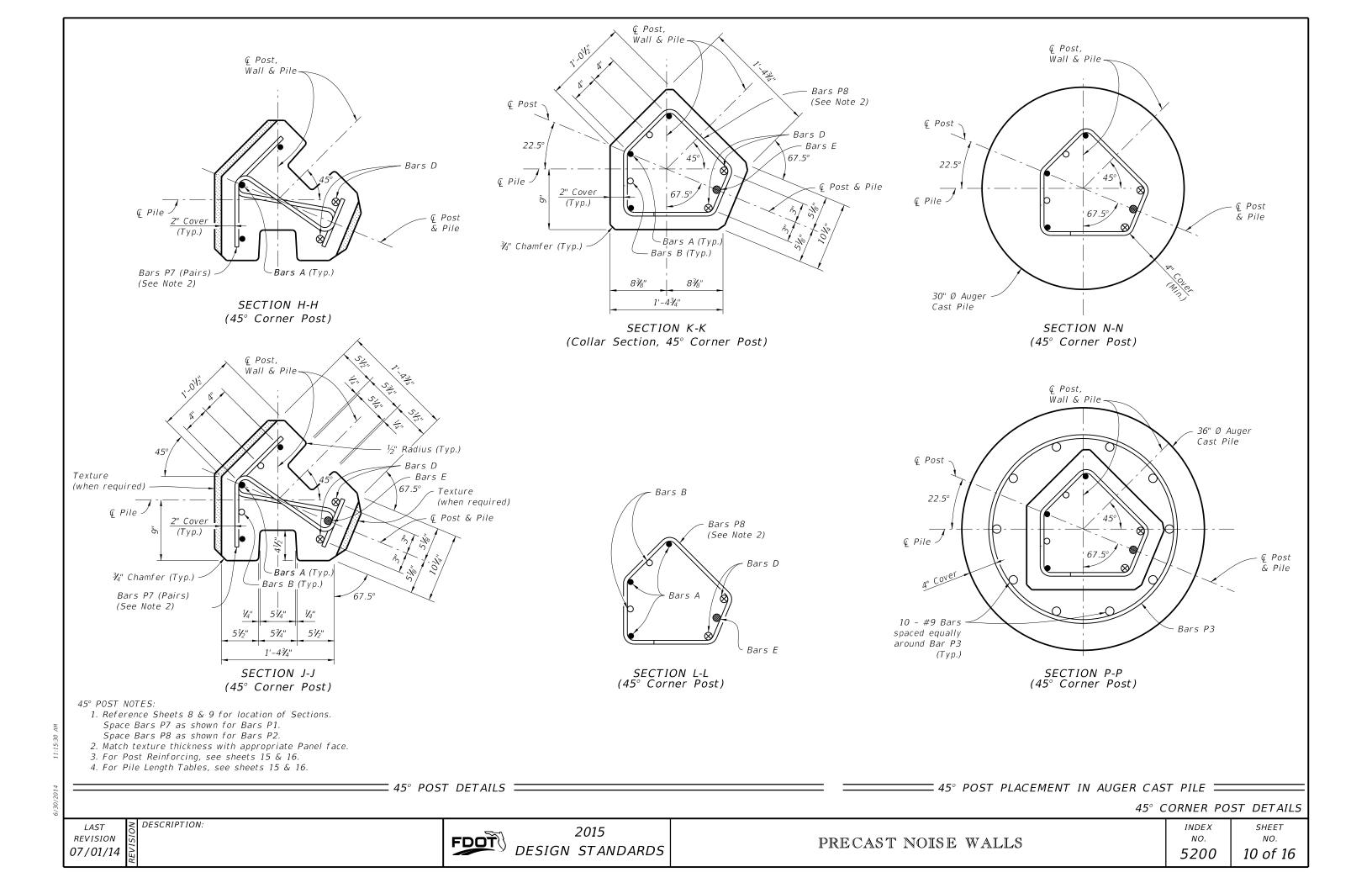
FDOT DESIGN STANDARDS

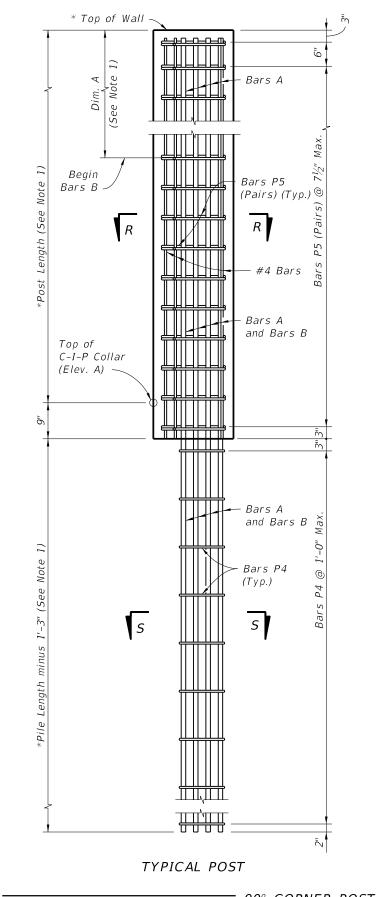
PRECAST NOISE WALLS

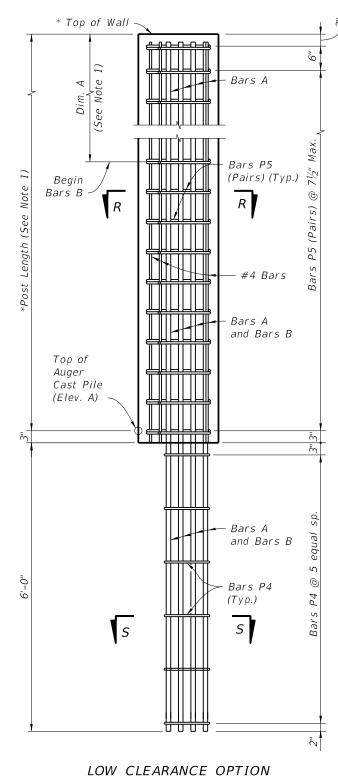
NO. SHEET NO. 7 of 16





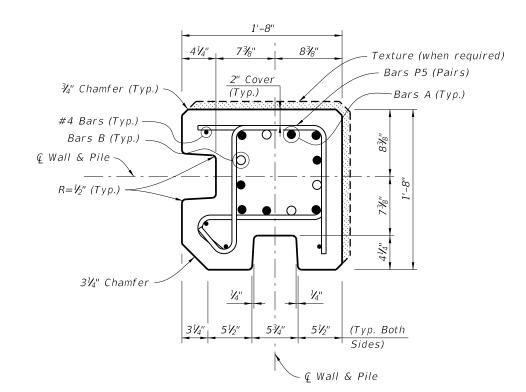




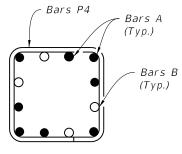


* Extend Post 2" above top of high side wall panel when post caps are shown in plans. See Sheet 4, "ELEVATION STEP AT TOP OF WALL".

90° CORNER POST REINFORCMENT (Post Surface Features Not Shown For Clarity)



SECTION R-R



SECTION S-S

90° CORNER POST NOTES:

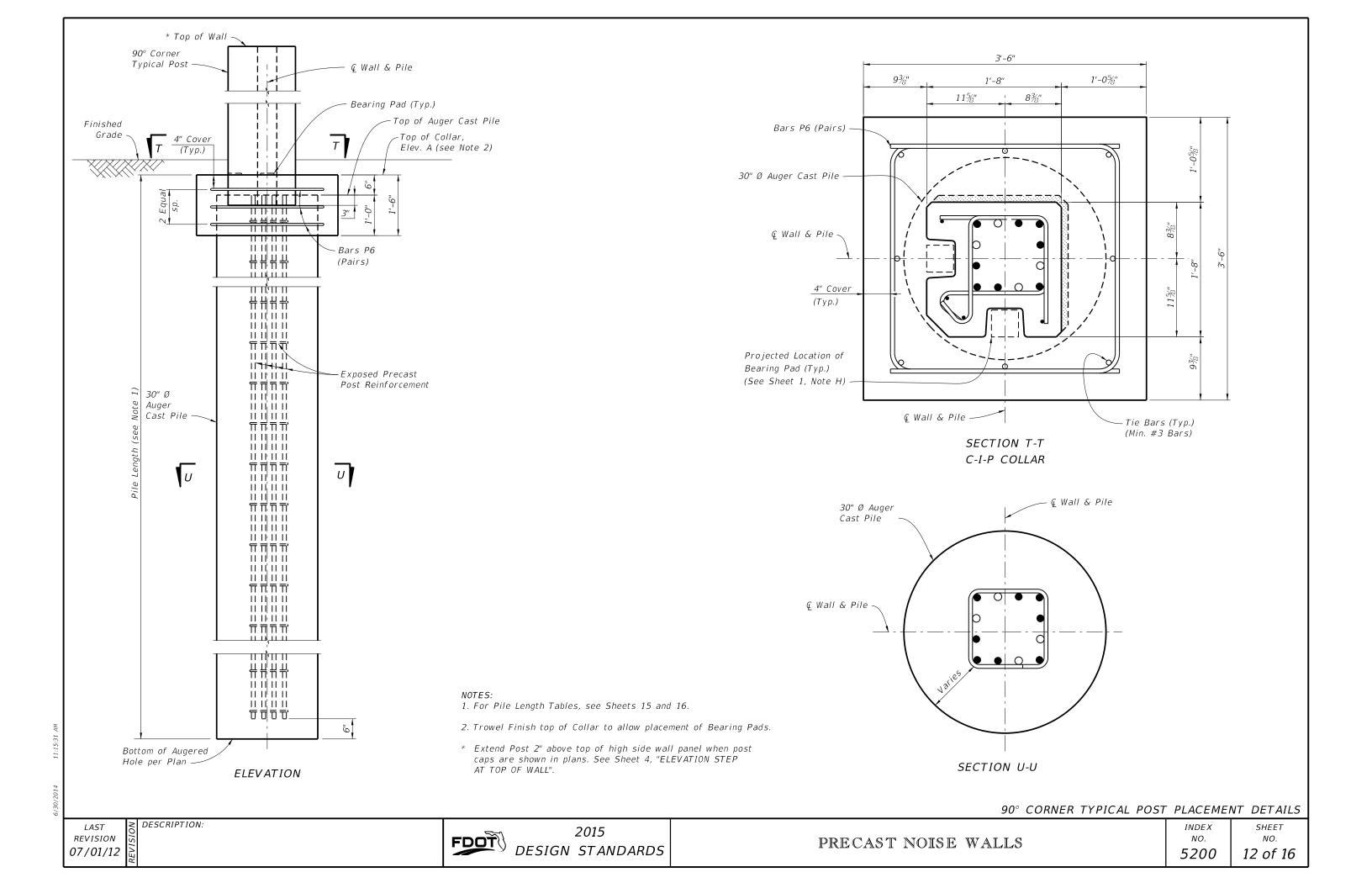
- 1. For Post Reinforcing, see Sheets 15 and 16.
- 2. For Pile Length Tables, see Sheets 15 and 16.
- 3. Reduce typical panel length or adjust pile spacing at each 90° Corner Post.
- 4. Match texture thickness, with appropriate Panel face.

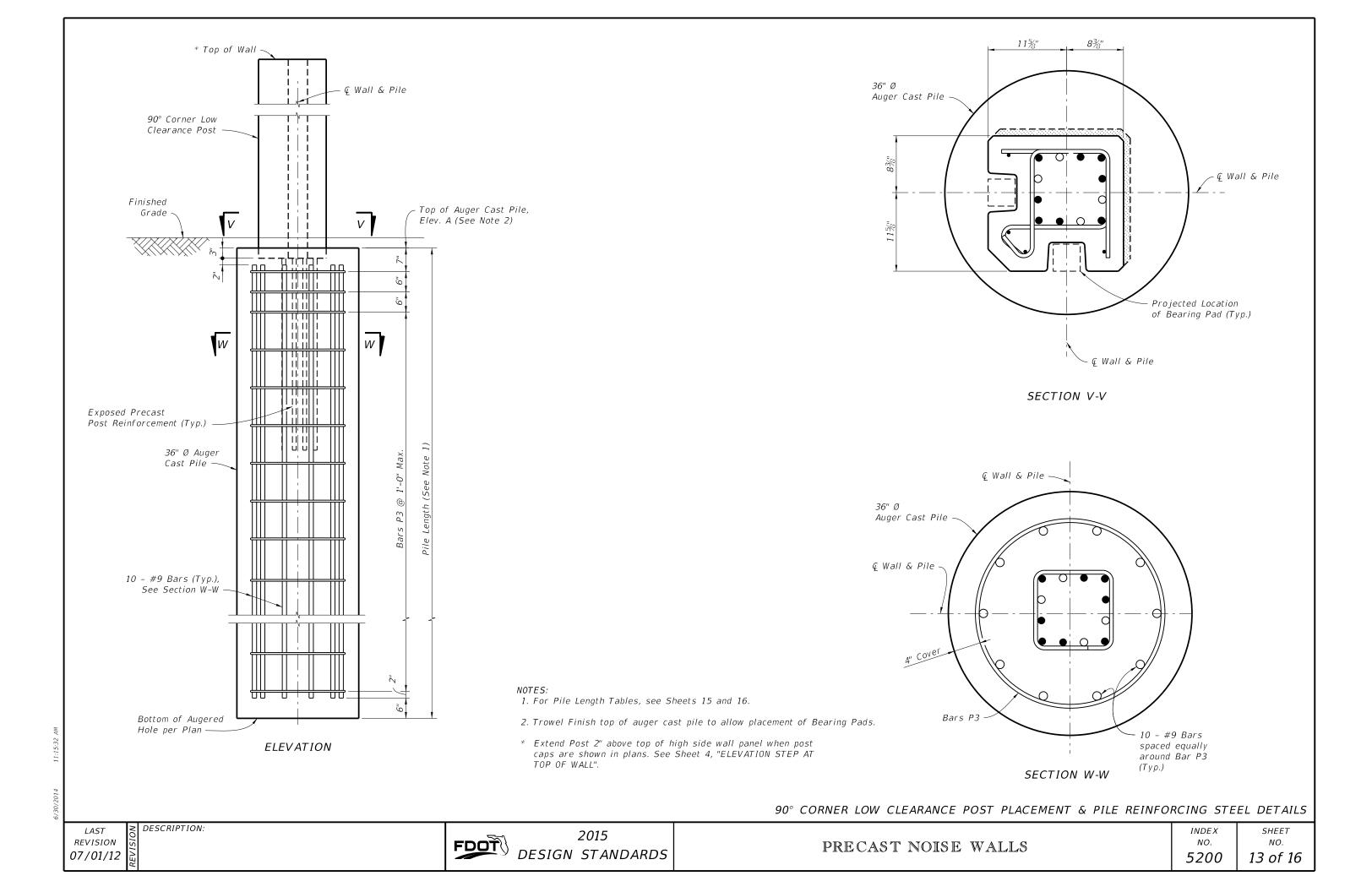
90° CORNER POST DETAILS

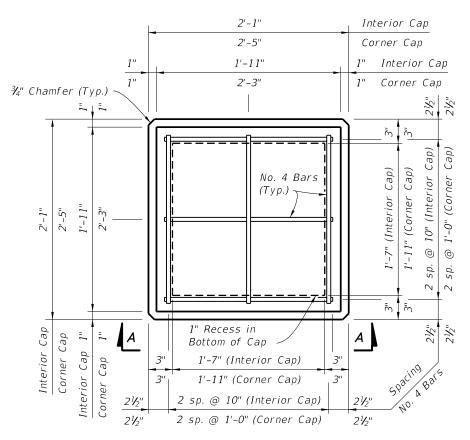
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FDOT DESIGN STANDARDS

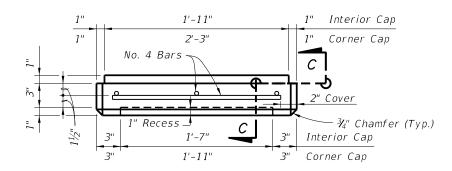
INDEX SHEET



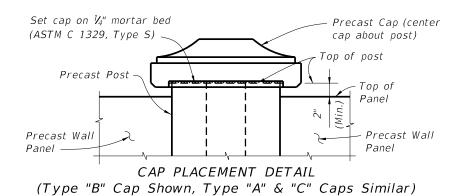


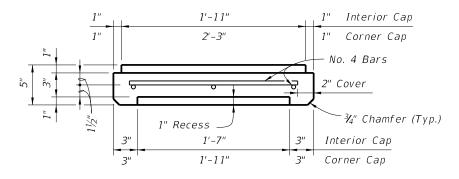


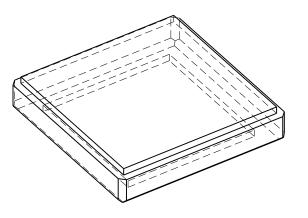
PLAN VIEW (Type "A" Cap Shown, Type "B" & "C" Caps Similar)



VIEW A-A SHOWN, VIEW B-B SIMILAR (Type "A" Cap Shown, Type "B" & "C" Caps Similar)



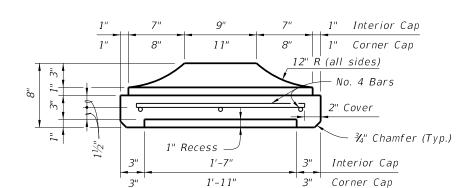


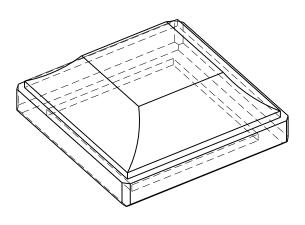


PICTORIAL VIEW

SECTION C-C

TYPE "A" CAP DETAILS =

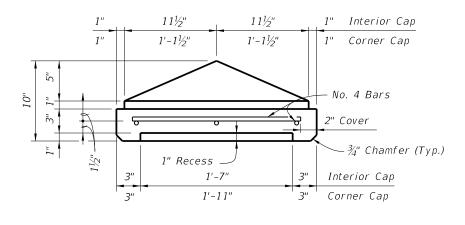


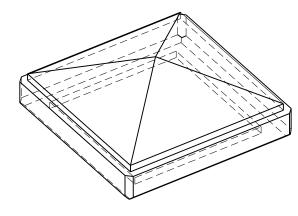


SECTION C-C

PICTORIAL VIEW

TYPE "B" CAP DETAILS =





SECTION C-C

PICTORIAL VIEW

TYPE "C" CAP DETAILS =

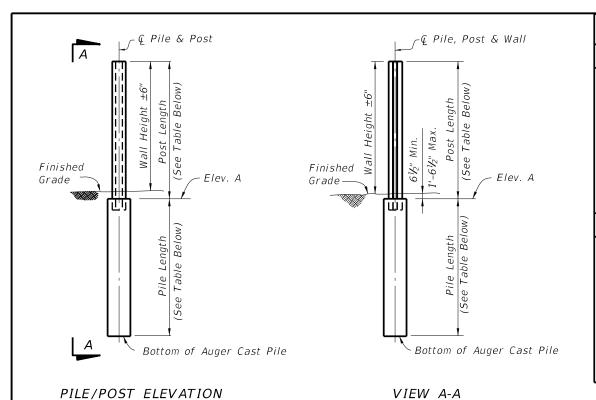
PRECAST POST CAPITAL

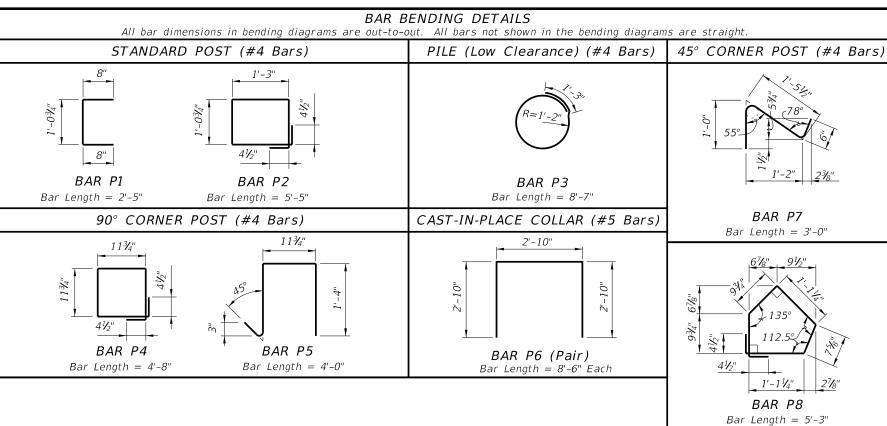
≥ DESCRIPTION: LAST REVISION 07/01/14

2015 FDOT DESIGN STANDARDS

PRECAST NOISE WALLS

SHEET NO. 5200 14 of 16





		T	ABLE 1	'A - T	ABLE (OF PO	ST RE	INFOR	CING S	STEEL								TA	BLE 1B	- PILI	E LEN	GTHS	(Feet)	- WIN	ID SPI	EED =	110 M	PH			
	POST L	ENGTHS					WIND	SPEED) = 11	0 MPF	l					10'-0" POST SPACING 20'-0" POST SPACING															
WALL HEIGHT	WALL HEIGHT	WALL HEIGHT			10 POST S	'-0" SPACING						-0" PACING			WALL HEIGHT		H-P	OSTS			CORNER	R POSTS			H-P	0STS			CORNER	R POSTS	
(Feet)	WITHOUT CAP	WITH CAP	BARS A	ВА	ARS B	BARS D	BA	NRS E	BARS A	BA	NRS B	BARS D	BA	ARS E	(Feet)	50.	IL 1	501	'L 2	501	'L 1	501	!L 2	50.	IL 1	50.	'L 2	501	'L 1	50.	IL 2
			SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'		30" ⊘	36" ⊘	<i>30</i> " ⊘	<i>36</i> " ∅	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ⊘	<i>36</i> " ⊘	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ⊘	<i>36</i> " ∅	<i>30</i> " ∅	<i>36</i> " ⊘
12	13'-01/2"	13'-21/2"	#3	#3	9'-8"	#3	#3	8'-8"	#5	#5	11'-2"	#5	#5	9'-2"	12	11	11	11	10	10	9	9	9	15	14	14	13	13	12	12	12
13	14'-0½''	14'-2½"	#4	#4	13'-5"	#4	#4	11'-5"	#5	#5	11'-2"	#5	#5	9'-2"	13	12	11	11	10	11	10	10	9	16	15	15	14	14	13	13	12
14	15'-0½''	15'-2½"	#4	#4	13'-5"	#4	#4	11'-5"	#5	#5	11'-2"	#6	#6	10'-9"	14	12	12	12	11	11	10	10	10	16	15	15	14	14	13	13	12
15	16'-0 ¹ / ₂ ''	16'-2 ¹ / ₂ "	#4	#4	13'-5"	#4	#4	11'-5"	#6	#6	12'-9"	#6	#6	10'-9"	15	13	12	12	11	11	11	11	10	17	16	16	15	15	14	14	13
16	17'-0½''	17'-2½"	#4	#4	13'-5"	#5	#5	14'-2"	#6	#6	12'-9"	#6	#6	10'-9"	16	13	12	12	12	12	11	11	10	18	16	16	15	15	14	14	13
17	18'-0½''	18'-2 ¹ / ₂ "	#4	#4	12'-5"	#5	#5	14'-2"	#6	#6	12'-9"	#7	#7	12'-4"	17	14	13	13	12	12	11	11	11	18	17	17	16	16	15	15	14
18	19'-0½''	19'-2½"	#5	#5	16'-3"	#5	#5	14'-2"	#7	#7	14'-4"	#7	#7	12'-4"	18	14	13	13	12	13	12	12	11	19	18	18	16	17	15	15	14
19	20'-0 ¹ / ₂ ''	20'-2 ¹ / ₂ "	#5	#5	16'-2"	#5	#5	14'-2"	#7	#7	14'-4"	#8	#8	13'-10'	19	15	14	14	13	13	12	12	11	20	18	18	17	17	16	16	15
20	21'-01/2"	21'-21/2"	#5	#5	16'-2"	#6	#6	15'-9"	#8	#8	15'-10"	#8	#8	13'-10'	20	15	14	14	13	13	12	12	12	20	19	19	17	18	16	16	15
21	22'-0 ¹ / ₂ ''	22'-2½"	#5	#5	16'-2"	#6	#6	15'-9"	#8	#8	15'-10"	#8	#8	13'-10'	21	16	15	15	14	14	13	13	12	21	19	19	18	18	17	17	16
22	23'-0½''	23'-2 ¹ / ₂ "	#6	#6	18'-9"	#6	#6	15'-9"	#8	#8	15'-10"	#8	#9	13'-3"	22	16	15	15	14	14	13	13	12	21	20	20	18	19	17	17	16

TABLE NOTE:

- 1. Bars D and Bars E are for 45° Corner Posts only.
- 2. See Contract Plans for project wind speed.
- 3. Soil 1 = Loose Granular Soil, N = 4 to 9. Soil 2 = Medium Dense Granular Soil, N 10 to 40.

PILE DEPTH & REINFORCING SUMMARY

LAST OF DESCRIPTION:
REVISION IS DESCRIPTION:
07/01/14



		TABLE 2A - TABLE OF POST REINFORCING STEEL											TABLE 2B - PILE LENGTHS (Feet) - WIND SPEED = 130 MPH																		
	POST L	ENGTHS					WIND	SPEEL) = 13	O MPH	l							10	'-0" P0S	T SPACI	NG					20	"-0" P0S	T SPACI	NG		
WALL HEIGHT	WALL HEIGHT	WALL HEIGHT				'-0" SPACING					20' POST S				WALL HEIGHT		H-P	OSTS			CORNER	R POSTS			H-P(OSTS			CORNER	R POSTS	
(Feet)	WITHOUT CAP	WITH CAP	BARS A	BA	ARS B	BARS D	BA	IRS E	BARS A	BA	ARS B	BARS D	Вя	ARS E	(Feet)	50.	IL 1	501	TL 2	501	IL 1	501	IL 2	501	L 1	501	IL 2	501	L 1	501	IL 2
			SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'		<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ⊘	<i>36</i> " ⊘	<i>30</i> " ⊘	<i>36</i> " ⊘	30" Ø	<i>36</i> " ⊘	<i>30</i> " ⊘	36" ⊘	<i>30</i> " ⊘	<i>36</i> " ⊘
12	13'-0½"	13'-2½"	#4	#4	10'-5"	#4	#4	9'-5"	#5	#5	9'-2"	#6	#6	8'-9"	12	13	12	12	11	13	11	12	10	17	16	16	15	15	14	14	13
13	14'-0½"	14'-2½"	#4	#4	10'-5"	#4	#4	9'-5"	#6	#6	10'-9"	#6	#6	8'-9"	13	14	13	13	12	13	11	13	10	18	17	17	16	16	15	15	14
14	15'-0½"	15'-2½"	#4	#4	10'-5"	#5	#5	12'-2"	#6	#6	10'-9"	#7	#7	10'-4"	14	14	13	13	12	14	12	13	11	19	18	18	16	17	15	15	14
15	16'-0½"	16'-2 ¹ / ₂ "	#5	#5	13'-2"	#5	#5	12'-2"	#7	#7	12'-4"	#7	#7	10'-4"	15	15	14	14	13	15	12	14	11	20	18	18	17	17	16	16	15
16	17'-0½"	17'-2½"	#5	#5	13'-2"	#5	#5	11'-2"	#7	#7	12'-4"	#8	#8	11'-10"	16	15	14	14	13	15	12	14	12	20	19	19	18	18	16	17	15
17	18'-0½"	18'-2 ¹ / ₂ "	#5	#5	13'-2"	#6	#6	13'-9"	#7	#7	12'-4"	#8	#8	11'-10"	17	16	15	15	14	16	13	15	12	21	20	20	18	18	17	17	16
18	19'-0½"	19'-2½"	#6	#6	15'-8"	#6	#6	13'-9"	#8	#8	13'-10"	#8	#8	11'-10"	18	16	15	15	14	16	13	15	12	22	20	20	19	19	18	18	16
19	20'-01/2"	20'-2 ¹ / ₂ "	#6	#6	15'-8"	#6	#6	13'-9"	#8	#8	13'-10"	#9	#8	12'-10"	19	17	16	16	15	17	14	16	13	22	21	21	19	20	18	18	17
20	21'-01/2"	21'-21/2"	#6	#6	15'-8"	#7	#7	15'-4"	#8	#9	12'-3"	#9	#9	12'-3"	20	17	16	16	15	17	14	16	13	23	21	21	20	20	19	19	17
21	22'-0 ¹ / ₂ "	22'-2 ¹ / ₂ "	#7	#7	17'-4"	#7	#7	15'-4"	#9	#9	14'-3"	#9	#10	11'-7"	21	18	17	17	15	18	15	17	14	24	22	22	20	21	19	19	18
22	23'-0½"	23'-2½"	#7	#7	17'-4"	#7	#7	15'-4"	#9	#10	13'-7"	#10	#9	14'-3"	22	18	17	17	16	18	15	17	14	24	23	23	21	21	20	20	18

	TABLE 3A - TABLE OF POST REINFORCING STEEL											TABLE 3B - PILE LENGTHS (Feet) - WIND SPEED = 150 MPH																			
	POST LE	ENGTHS					WIND	SPEEL) = 15	O MPF	1					10'-0" POST SPACING 20'-C							"-0" P0S	POST SPACING							
WALL HEIGHT	WALL HEIGHT	WALL HEIGHT				'-0" SPACING					20' POST S				WALL HEIGHT		H-P	0STS			CORNER	R POSTS			H-P()STS			CORNER	R POSTS	
(Feet)	WITHOUT CAP	WITH CAP	BARS A	BA	ARS B	BARS D	ВА	ARS E	BARS A	BA	IRS B	BARS D	Вя	ARS E	(Feet)	50.	IL 1	501	L 2	501	L 1	501	L 2	501	L 1	501	IL 2	501	L 1	501	L 2
			SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'	SIZE	SIZE	DIM 'A'		<i>30</i> " ⊘	36" ⊘	<i>30</i> " ⊘	36" ⊘	<i>30</i> " ∅	<i>36</i> " ⊘	<i>30</i> " ⊘	36" ⊘	<i>30</i> " ⊘	36" ⊘	<i>30</i> " ∅	<i>36</i> " ∅	<i>30</i> " ⊘	<i>36</i> " ⊘	<i>30</i> " ∅	<i>36</i> " ⊘
12	13'-0 ¹ / ₂ "	13'-21/2"	#4	#4	9'-5"	#5	#5	10'-2"	#6	#6	8'-9"	#7	#7	7'-4"	12	15	14	14	13	13	12	12	11	20	20	18	18	17	16	16	15
13	14'-0 ¹ / ₂ "	14'-21/2"	#5	#5	9'-2"	#5	#5	10'-2"	#7	#7	10'-4"	#7	#7	8'-4"	13	15	14	14	13	13	13	13	12	21	21	19	19	18	17	17	15
14	15'-0 ¹ / ₂ "	15'-2½"	#5	#5	11'-2"	#5	#5	10'-2"	#7	#7	10'-4"	#8	#8	9'-10"	14	16	15	15	14	14	13	13	12	21	21	20	20	19	17	17	16
15	16'-0½"	16'-2½"	#5	#5	11'-2"	#6	#6	11'-9"	#8	#8	11'-10"	#8	#8	9'-10"	15	17	15	15	14	15	13	14	13	22	22	21	21	19	18	18	17
16	17'-0½"	17'-2½"	#6	#6	10'-9"	#6	#6	11'-9"	#8	#8	10'-10"	#8	#9	10'-3"	16	17	16	16	15	15	14	14	13	23	23	21	21	20	19	19	17
17	18'-0 ¹ / ₂ "	18'-2½"	#6	#6	13'-9"	#7	#7	13'-4"	#8	#9	10'-3"	#9	#8	10'-10"	17	18	17	17	15	16	14	15	13	24	24	22	22	21	19	19	18
18	19'-0½"	19'-2½"	#6	#6	12'-9"	#7	#7	13'-4"	#9	#9	12'-3"	#9	#10	11'-7"	18	18	17	17	16	16	15	15	14	25	25	23	23	21	20	20	18
19	20'-0 ¹ / ₂ "	20'-2 ¹ / ₂ "	#7	#7	12'-4"	#7	#7	13'-4"	#9	#10	11'-7"	#10	#9	13'-3"	19	19	18	18	16	17	15	15	14	25	25	23	23	22	20	20	19
				7//		///				. 15	'-0" POS	T SPAC	ING			7//		///	///			///					15'-0" PC	ST SPA	CING		
20	21'-0 ¹ / ₂ "	21'-21/2"	#7	#7	15'-4"	#8	#8	14'-10"	#8	#9	12'-3"	#9	#9	16'-3"	20	19	18	18	17	17	16	16	15	26	26	24	24	23	21	21	20
21	22'-0 ¹ / ₂ "	22'-21/2"	#7	#8	14'-10"	#8	#8	14'-10"	#9	#9	14'-3"	#9	#10	15'-7"	21	20	19	19	17	18	16	16	15	27	27	25	25	23	22	22	20
22	23'-0½"	23'-21/2"	#7	#8	16'-10"	#8	#8	14'-10"	#9	#10	13'-7"	#10	#9	16'-3"	22	21	19	19	18	18	17	17	16	27	27	26	26	24	22	22	21

TABLE NOTE:

- 1. Bars D and Bars E are for 45° Corner Posts only.
- 2. See Contract Plans for project wind speed.
- 3. Soil 1 = Loose Granular Soil, N = 4 to 9;
- Soil 2 = Medium Dense Granular Soil, N = 10 to 40.
- 4. Pile lengths are based on 30 inch diameter auger cast piles.

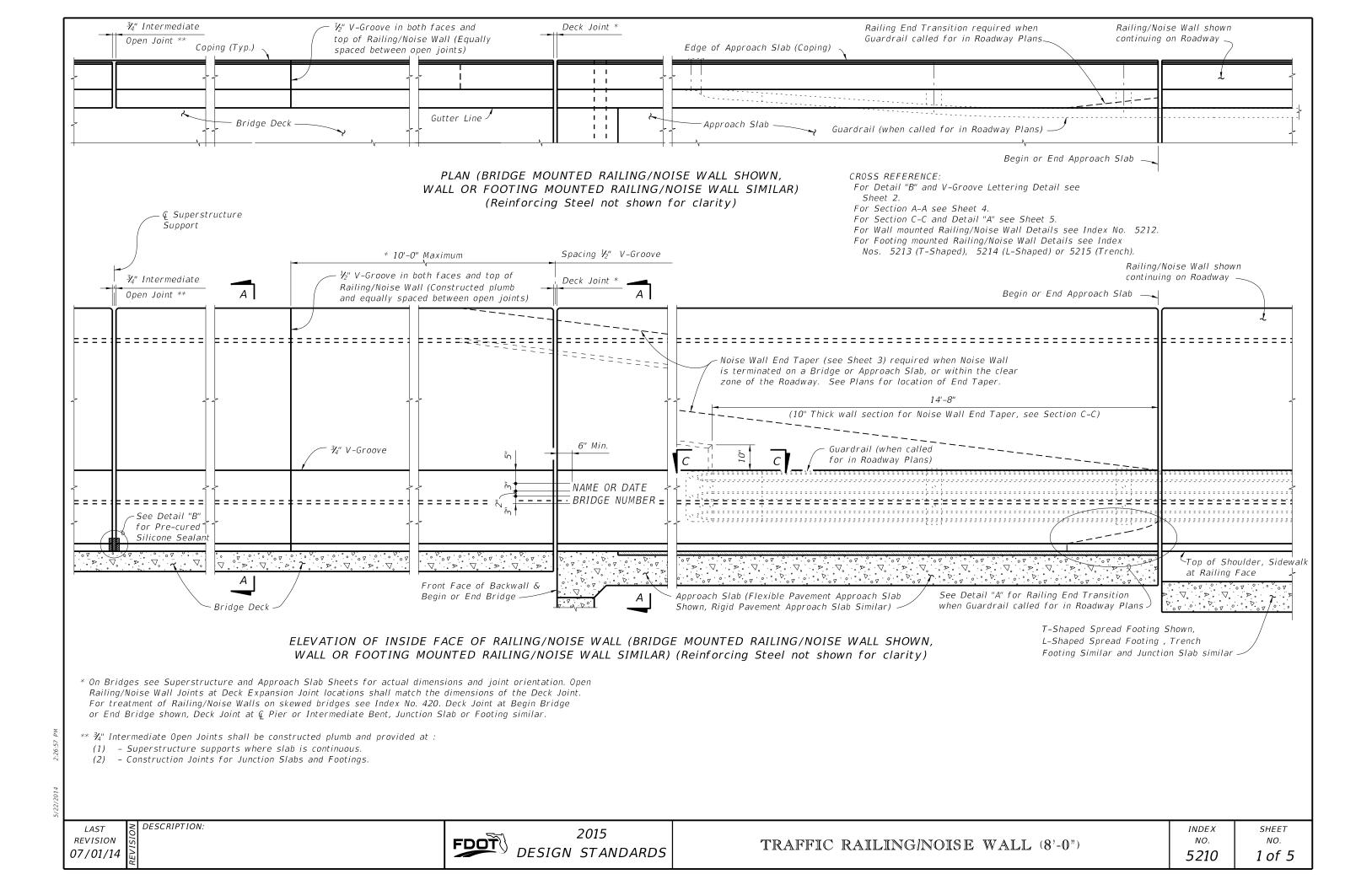
PILE DEPTH & REINFORCING SUMMARY

LAST REVISION STORMS DESCRIPTION:

DESIGN STANDARDS

PRECAST NOISE WALLS

INDEX SHEET NO. NO. 16 of 16



CONCRETE: For Railing/Noise Wall on bridges see General Notes. For Wall

and Footing mounted Railing/Noise Wall, concrete shall be Class II for slightly aggressive environments and Class IV for moderately or extremely aggressive environments.

NAME, DATE AND BRIDGE NUMBER: For Railing/Noise Wall on bridges, the Name and Bridge Number shall be placed on the Traffic Railing so as to be seen on the driver's right side when approaching the bridge. The Date shall be placed on the driver's left side when approaching the bridge. The Name shall be as shown in the General Notes in the Structures Plans. The Date shall be the year the bridge is completed. For a widening when the existing railing is removed, use both the existing date and the year of the widening. Black plastic letters and figures 3" in height may be used, as approved by the Engineer, in lieu of the letters and figures formed by 🔏 V-Grooves. V-Grooves shall be formed by preformed letters and figures.

BARRIER DELINEATORS: Barrier Delineators shall meet Specification Section 993. Install Barrier Delineators 2'-4" above the riding surface at the spacing shown in the table below. Barrier Delineator color (white or yellow) shall match the color of the near edgeline. The cost of the Barrier Delineators shall be included in the Contract Unit Price for the Traffic Railing/Noise Wall.

Pre-cured Silicone

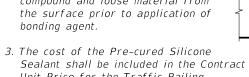
Sealant (4" wide)

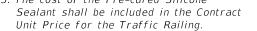
	BARRIER DELINEATOR SPACING									
Distance – Edge of Travel Lane to Face of Railing	Spacing (Ft.)									
< 4'	40'									
4' to 8'	80'									
> than 8'	None Required									

INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.

DESCRIPTION:





DETAIL "B" - SECTION AT INTERMEDIATE OPEN JOINT

ESTIMATED RAILING/NOISE W.		TITIES
ITEM	UNIT	QUANTITY
Concrete (Railing)	CY/LF	0.104
Concrete (Noise Wall)	CY/LF	0.145
Reinforcing Steel (Typical)	LB/LF	78.57
Additional Reinf. @ Open Joint	LB	430.24

(The above quantities are based on the bridge mounted typical section, 2% deck cross slope and railing on low side of deck.)



DESIGN STANDARDS

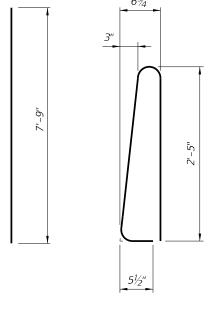
REINFORCING STEEL BENDING DIAGRAMS

REINFORG	CING STEEL
SIZE	LENGTH
5	5'-7"
5	7'-9"
5	As Reqd.
5	7'-3"
5	5'-1"
5	7'-7"
	<i>SIZE</i> 5 5 5 5 5

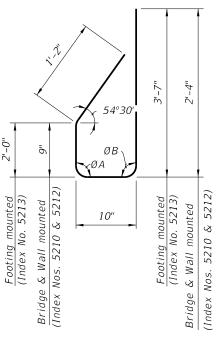
	BRIDGE	LOW G	UTTER	HIGH C	GUTTER
CRO	OSS-SLOPE	ØA	ØB	ØA	ØB
E ED	0% to 2%	90°	90°	90°	90°
BRIDGE MOUNTED	2% to 6%	93°	87°	87°	93°
B, MO	6% to 10%	96°	84°	84°	96°
WALL & FOOTING MOUNTED		90°	90°	90°	90°

5*S* 1 Length as Required 552

BARS 5S1 & 5S2



STIRRUP BAR 5R BAR 5P (Field Cut for End Taper)

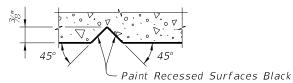


Portion of Bar 5V to be used Discard Portion-ØВ *Wall mounte* 52. 5210 & 5 5½"

END STIRRUP BAR 5V STIRRUP BAR 5V To Be Field Cut (One Required per Railing End Transition)

REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- 4. Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5R and 5S1 shall be a minimum of 2'-2".
- 5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.
- See Index Nos. 5214 and 5215 for Bars 5V and 5T in L-shaped and Trench footings.



SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

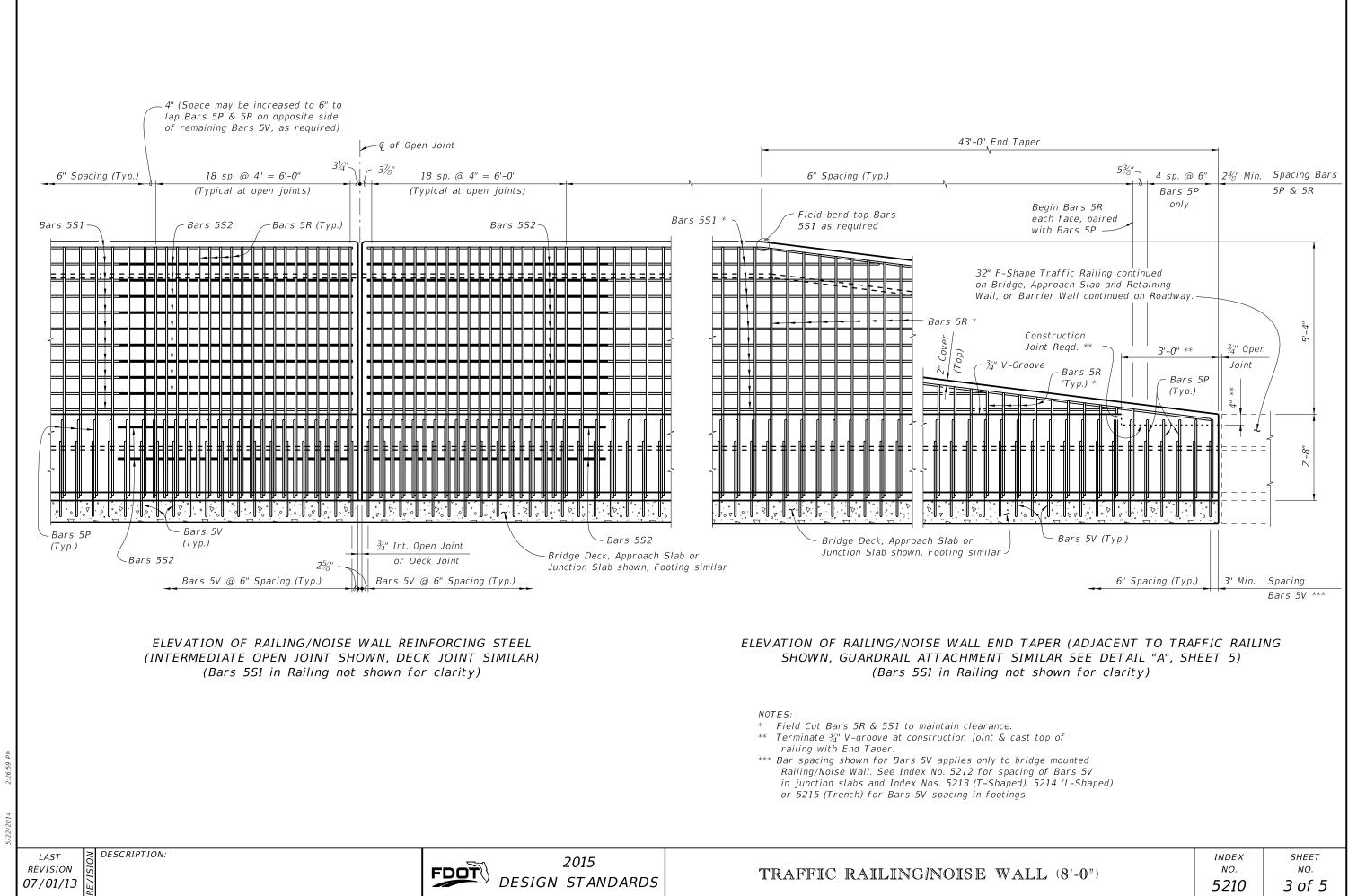
CROSS REFERENCE: For locations of Detail "B", see Sheet 1.

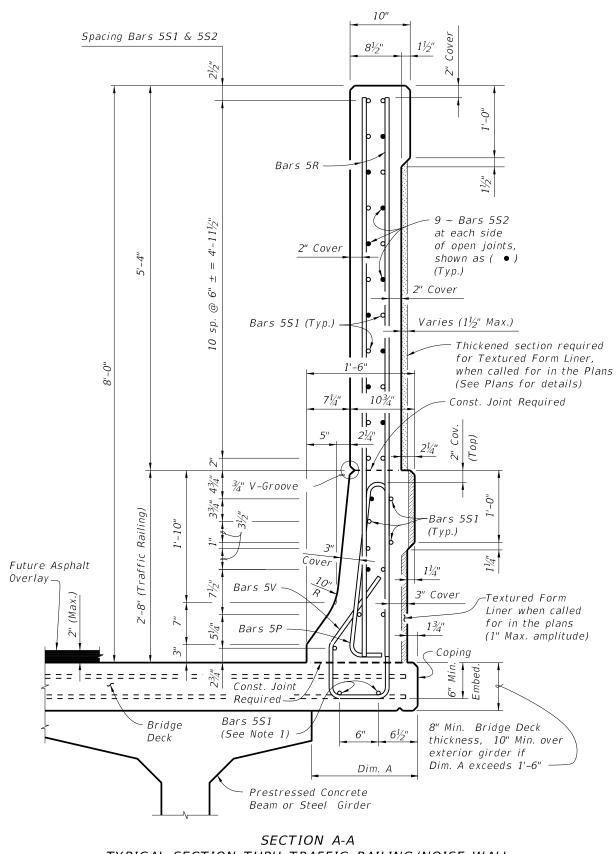
INDEX SHEET NO. NO. 2 of 5 5210

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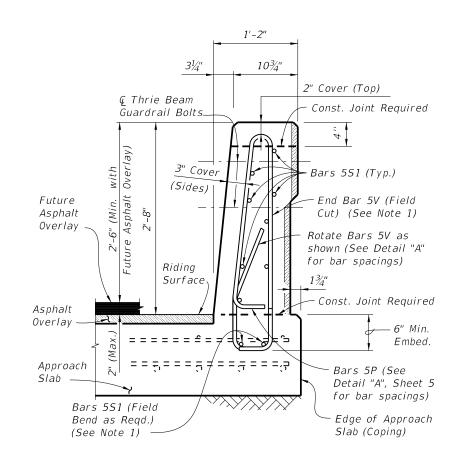


TYPICAL SECTION THRU TRAFFIC RAILING/NOISE WALL (Section Thru Bridge Deck Shown, Section Thru Approach Slab, Junction Slab or Footing Similar)

CROSS REFERENCE: For locations of Section A-A see Sheet 1. For location of View B-B, see Sheet 5.

NOTES:

1. Bottom Bars 5S1 and End Bar 5V are not present in L-Shaped (Index No. 5214) or Trench (Index No. 5215) Footings. For Bridge Mounted installations, see the Superstructure Sheets for Deck Steel.



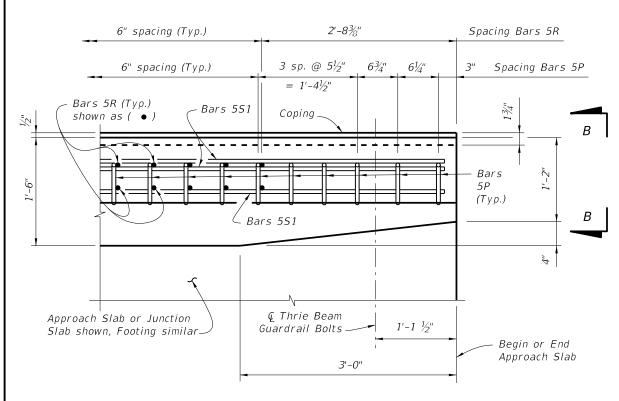
VIEW B-B END VIEW OF RAILILNG END TRANSITION FOR GUARDRAIL ATTACHMENT AT END OF APPROACH SLAB (Flexible Pavement Approach Slab Shown, Rigid Pavement Approach Slab, Junction Slab or Footing Similar)

LAST REVISION 07/01/13

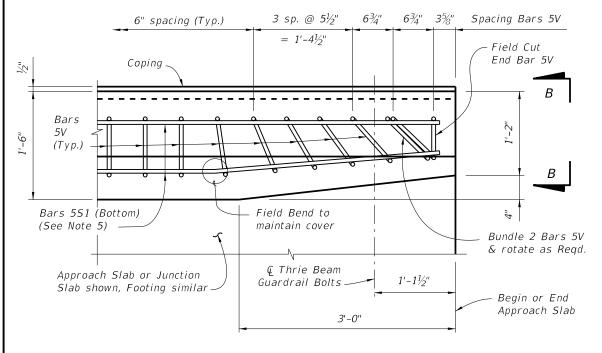
≥ DESCRIPTION:

2015 FDOT DESIGN STANDARDS INDEX NO.

SHEET NO. 5210 4 of 5



PLAN - RAILING END TRANSITION (Showing Bars 5P, 5R, and Bars 5S1) (Bars 5V, Noise Wall & Reinforcement not shown for Clarity)

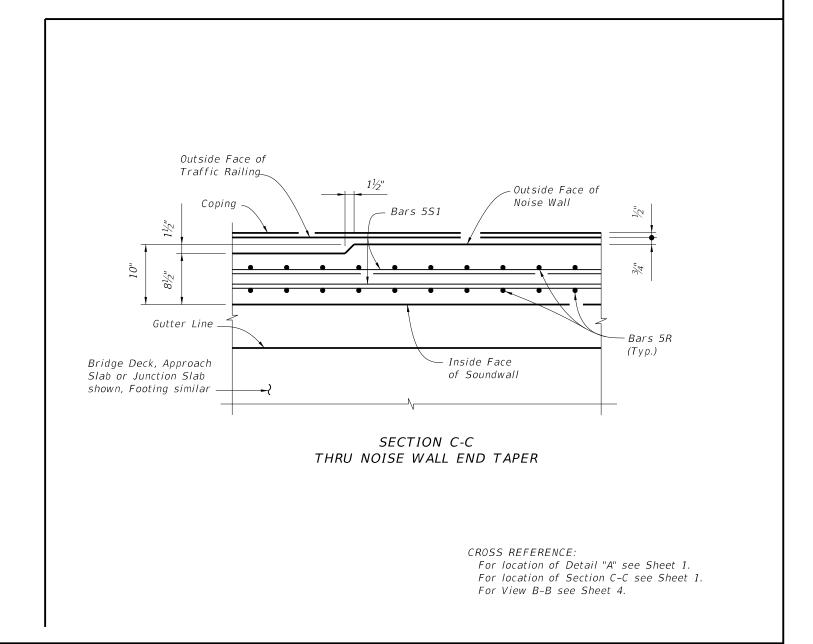


PLAN - RAILING END TRANSITION (Showing Bars 5V and Bars 5S1) (Bars 5P, 5R, Noise Wall & Reinforcement not shown for Clarity)

= DETAIL "A" =====

DETAIL "A" NOTES:

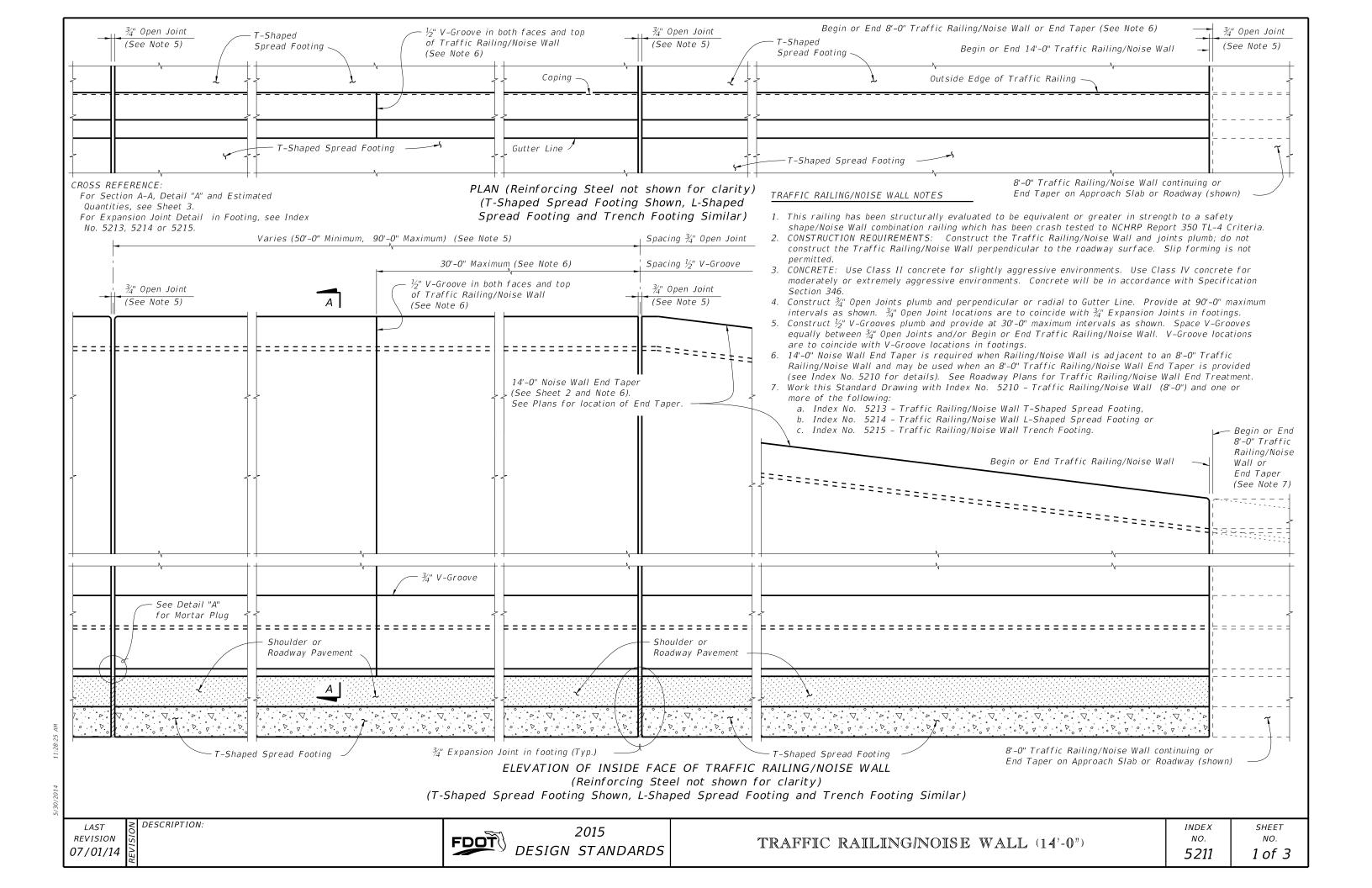
- 1. Rotate Bars 5P & 5V in Railing End Transition to maintain cover. Begin placing Railing Bars 5P and 5V at the railing end and proceed toward the guardrail (thrie beam) terminal connector to ensure placement of guardrail bolt holes. Pair Bars 5R with Bars 5P as shown. Clearance of Bars 5P, 5R & 5V to guardrail bolt holes shall be checked to prevent cutting of bars if holes are to be drilled. Shift bars locally where conflicts occur.
- 2. For Guardrail connection details see Design Standards Index No. 400.
- . Omit Raililng End Transition if a 32" F-Shape Traffic Railing is used beyond the End Taper. See the Plan Sheets. If Railing End Transition is omitted, space Bars 5P, 5R & 5V at 6" as shown above (Typ.).
- 4. For L-Shaped (Index No. 5214) and Trench (Index No. 5215) footings, Bars 5V and 5T replace Bars 5V as shown at left. Details and bar spacing shown apply except that it is not necessary to rotate Bars 5V and 5T to maintain cover and there is no field cut End Bar 5V.
- 5. Bottom Bars 5S1 are not present in L-Shaped or Trench Footings.

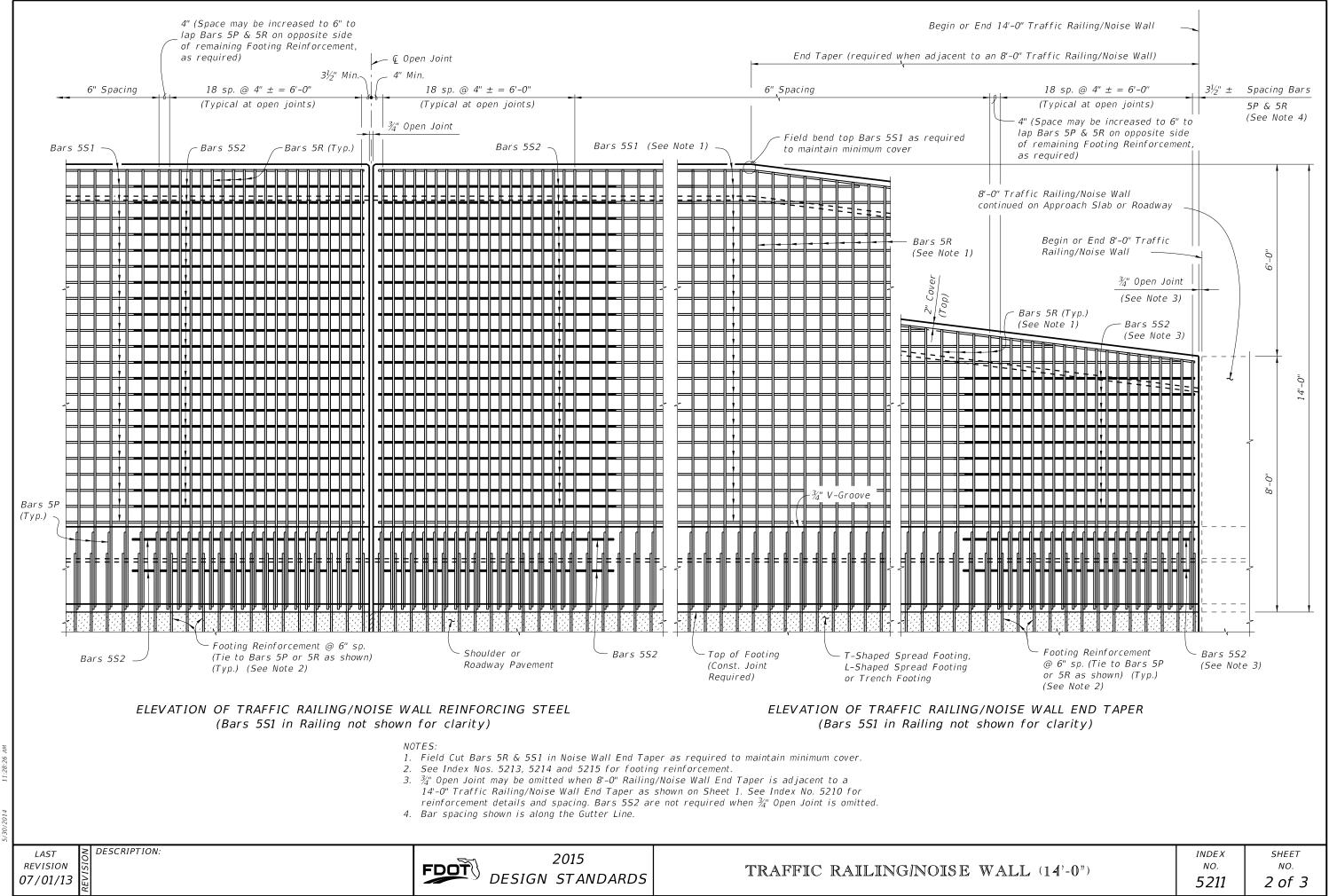


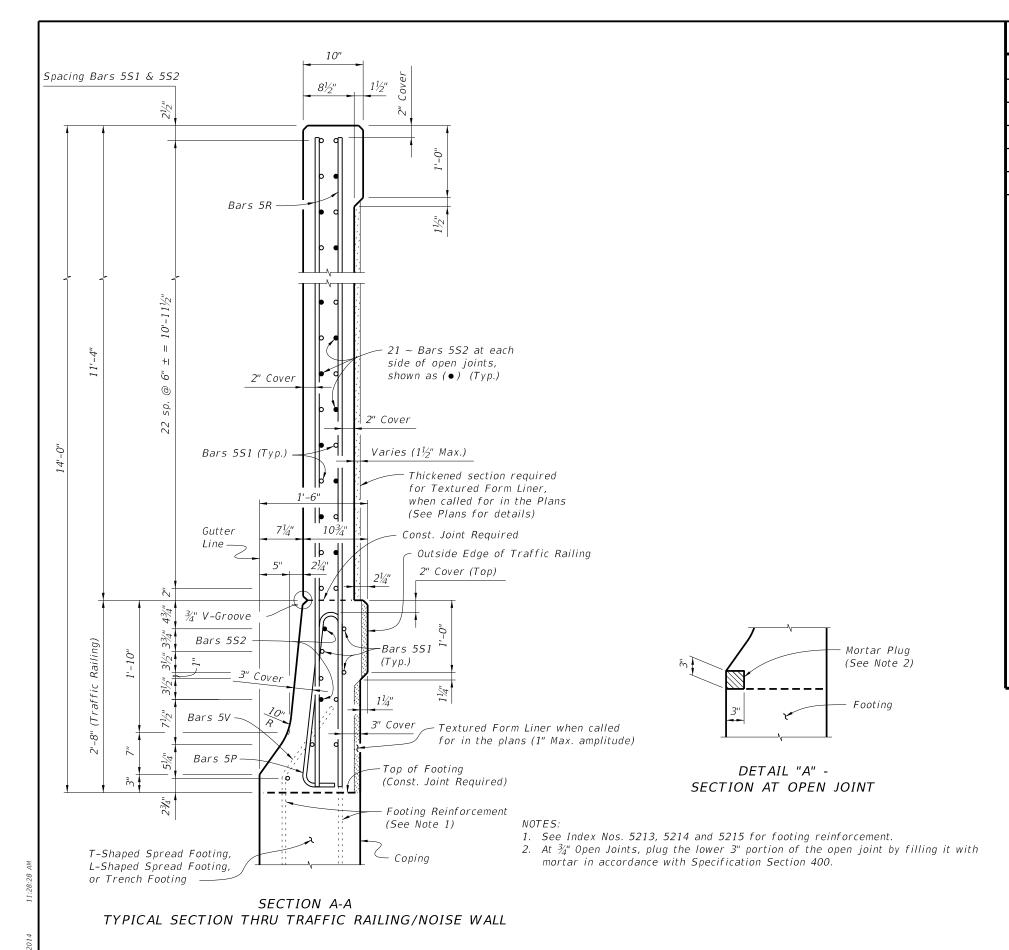
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FDOT DESIGN STANDARDS

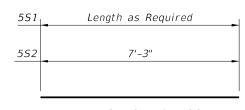




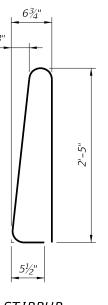


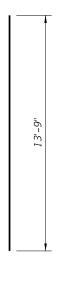
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL MARK SIZE LENGTH P 5 5'-7" R 5 13'-9" S1 5 AS REQD. S2 5 7'-3"



BARS 5S1 & 5S2





STIRRUP BAR 5P

BAR 5R (Field Cut for End Taper)

REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints will have a 2" minimum cover.
- 3. Bars 5R may be continuous or spliced at construction joints. Lap splices for Bars 5R and 5S1 will be a minimum of 2'-2".
- 4. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

ESTIMATED TRAFFIC RAILING BARRIER/NOISE WALL QUANTITIES

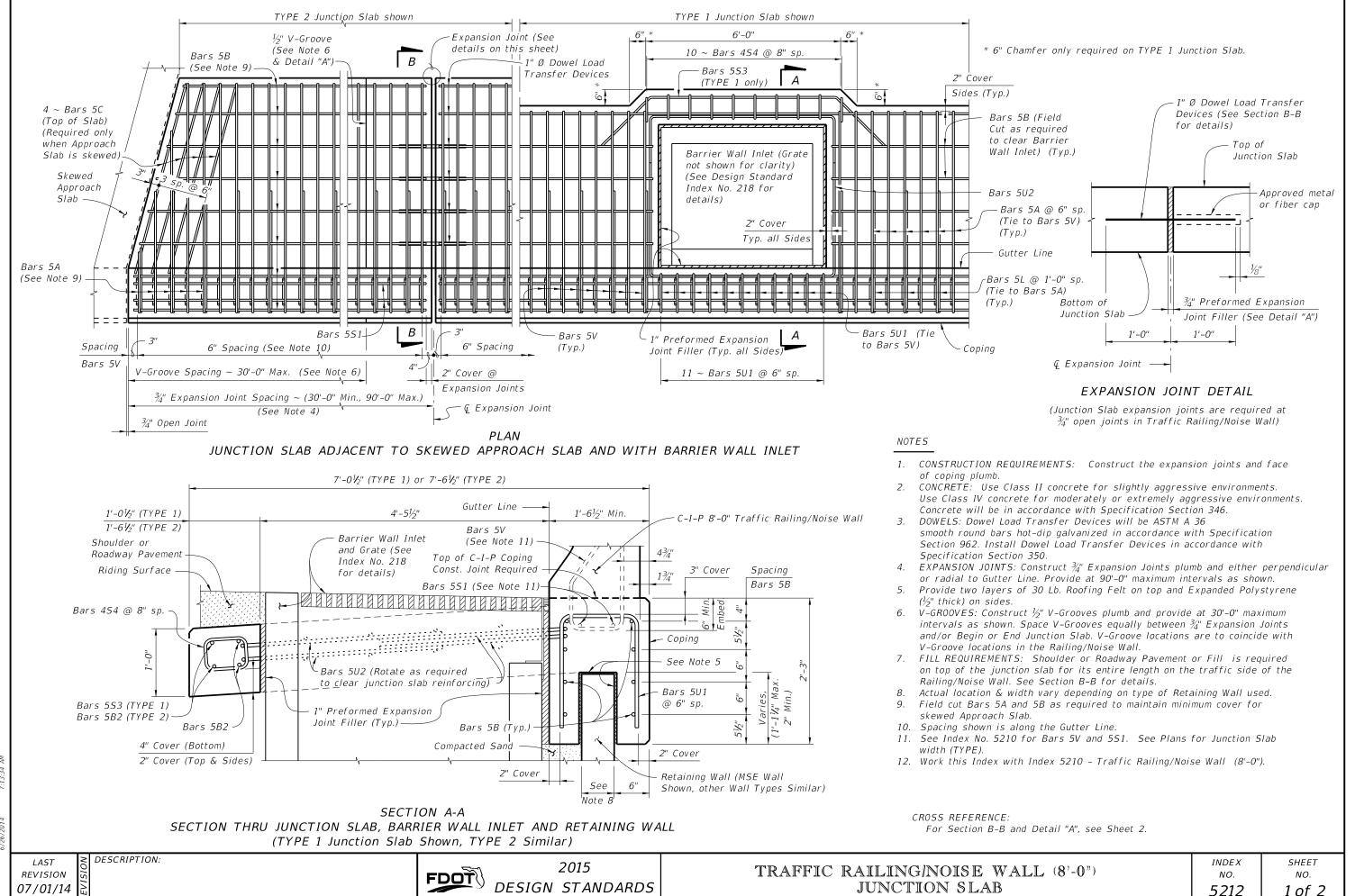
ITEM	UNIT	QUANTITY
Concrete (Traffic Railing)	CY/FT	0.104
Concrete (Noise Wall, excluding any thickening)	CY/FT	0.302
Reinforcing Steel (Railing/Noise Wall) (Typical, excluding Footing Reinforcement)	LB/FT	103.43
Additional Reinf. @ Open Joint (Railing/Noise Wall)	LB	761.91

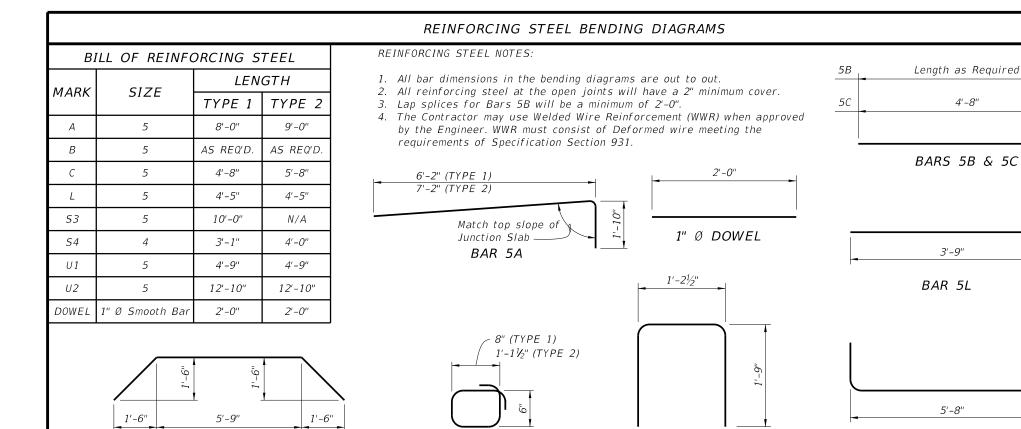
CROSS REFERENCE:

For locations of Section A-A and Detail "A", see Sheet 1.

LAST REVISION 07/01/14

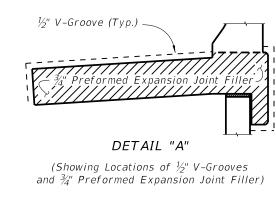






BAR 454

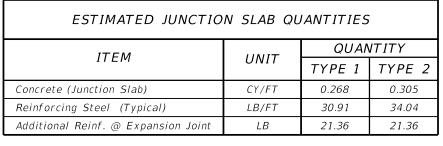
 $6'-6\frac{1}{2}$ " (TYPE 1) or $7'-6\frac{1}{2}$ " (TYPE 2)



1'-21/2" Top of Junction Slab 13/4" (Const. Joint Regd.) 8'-0" Traffic 3" Cover Railing/Noise Wall Bars 5S1 (Field Bent) - Copina Bars 5V (Rotated) End Stirrup Junction Slab Bar 5V

PARTIAL END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V and Bars 5S1)

NOTE: See Index No. 5210, Detail "A" for details.



4'-8"

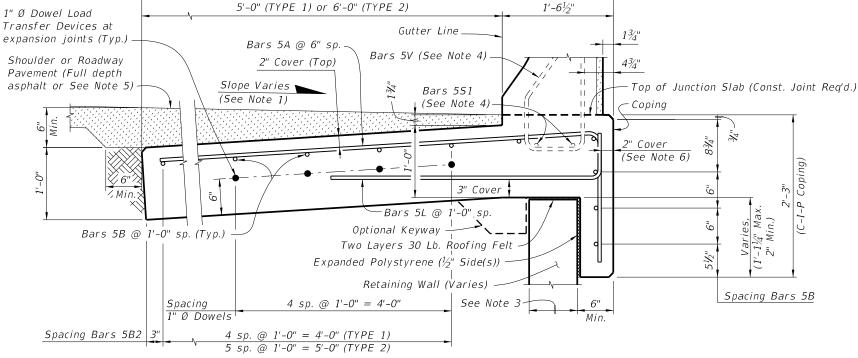
3'-9"

5'-8"

BAR 5U2

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Vary Junction Slab slope based on roadway cross slope to maintain a minimum 6" asphalt depth at the edge of the slab as shown.
- 3. Actual width varies depending on type of Retaining Wall used.
- 4. See Index No. 5210 for Bars 5V and 5S1.
- 5. For Rigid Pavement (Concrete), Junction Slab may be thickened to match finished grade.
- 6. If slip forming is used, submit shop drawings for approval showing 3" side cover with adjusted Typical Section dimensions.

CROSS REFERENCE: For location of Section B-B, see Sheet 1.



SECTION B-B TYPICAL SECTION THRU JUNCTION SLAB AND RETAINING WALL

LAST REVISION 07/01/14

∠ DESCRIPTION:

BAR 5S3 (TYPE 1 only)

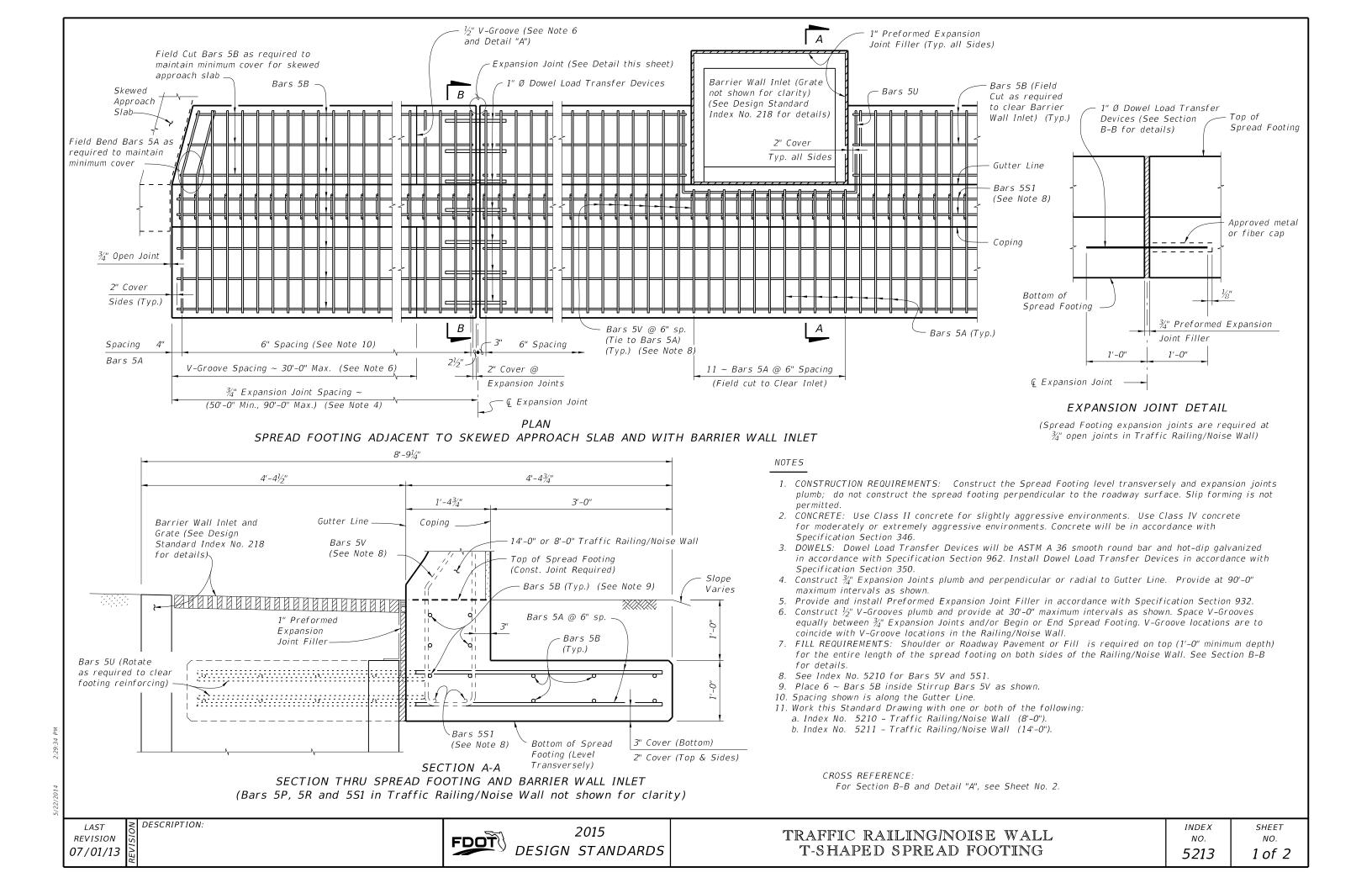
2015 FDOT

TRAFFIC RAILING/NOISE WALL (8'-0") JUNCTION SLAB

INDEX NO. 5212

SHEET NO. 2 of 2

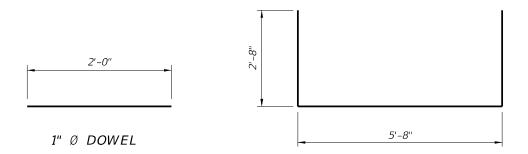
BAR 5U1



BILL OF REINFORCING STEEL MARK SIZE LENGTH Α 6'-8" 5 AS REQD. В U 11'-0" DOWEL 1" Ø Smooth Bar 2'-0"

5A	6'-8"	
5B	Length as Required	

BARS 5A & 5B

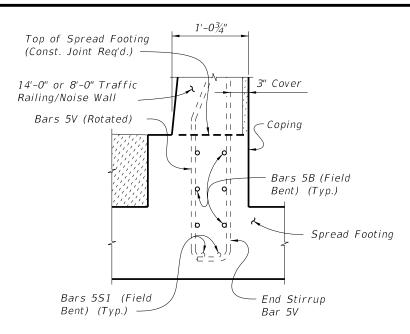


REINFORCING STEEL BENDING DIAGRAMS

BAR 5U

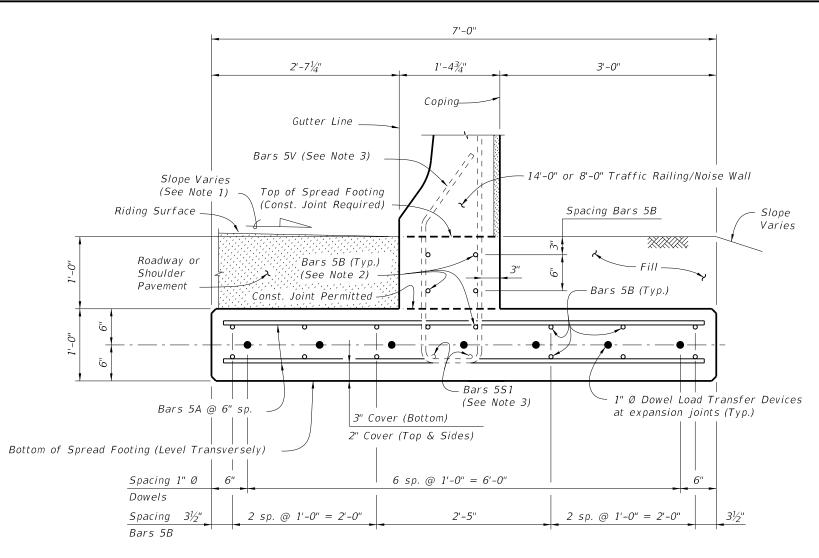
REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B will be a minimum of 2'-2".
- 4. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



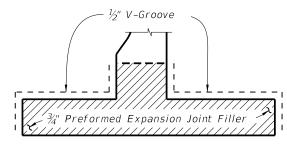
PARTIAL END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (Showing Bars 5V, Bars 5S1 and Bars 5B inside of Stirrup Bars 5V)

NOTE: See Index No. 5210, Detail "A" for details.



SECTION B-B TYPICAL SECTION THRU SPREAD FOOTING (Bars 5P, 5R and 5S1 in Traffic Railing/Noise Wall not shown for clarity)

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 6 ~ Bars 5B inside Stirrup Bars 5V as shown.
- 3. See Index No. 5210 for Bars 5V and Bars 5S1.



DETAIL "A"

(Showing Locations of $\frac{1}{2}$ " V-Grooves and 3/4" Preformed Expansion Joint Filler)

ESTIMATED T-SHAPED SPREAD	FOOTING	QUANTITIES
ITEM	UNIT	QUANTITY
Concrete (Footing)	CY/FT	0.311
Reinforcing Steel (Typical)	LB/FT	51.80
Additional Reinf. @ Expansion Joint	LB	37.38

Note: The reinforcing steel quantity accounts for the difference between the shorter Stirrup Bars 5V for junction slabs or bridges and the longer Stirrup Bars 5V for spread footings.

CROSS REFERENCE: For location of Section B-B, see Sheet 1.

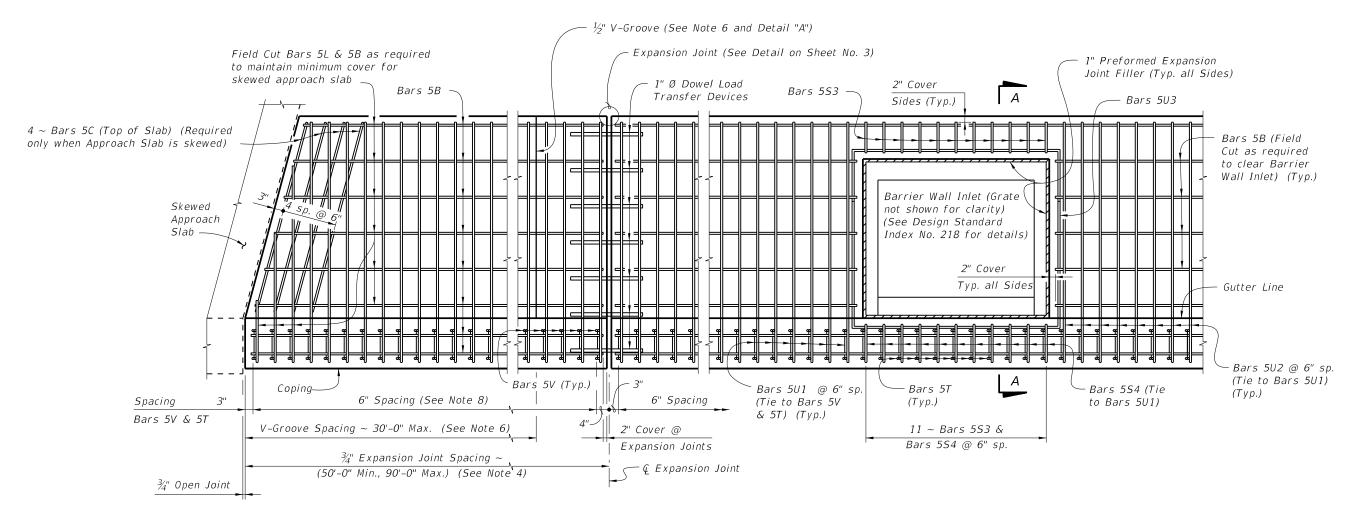
LAST REVISION 07/01/13

≥ DESCRIPTION:



T-SHAPED SPREAD FOOTING

INDEX	SHEET
NO.	NO.
5 <i>213</i>	2 of 2



PLAN - OPTION B SPREAD FOOTING ADJACENT TO SKEWED APPROACH SLAB AND WITH BARRIER WALL INLET (Option A Similar)

NOTES

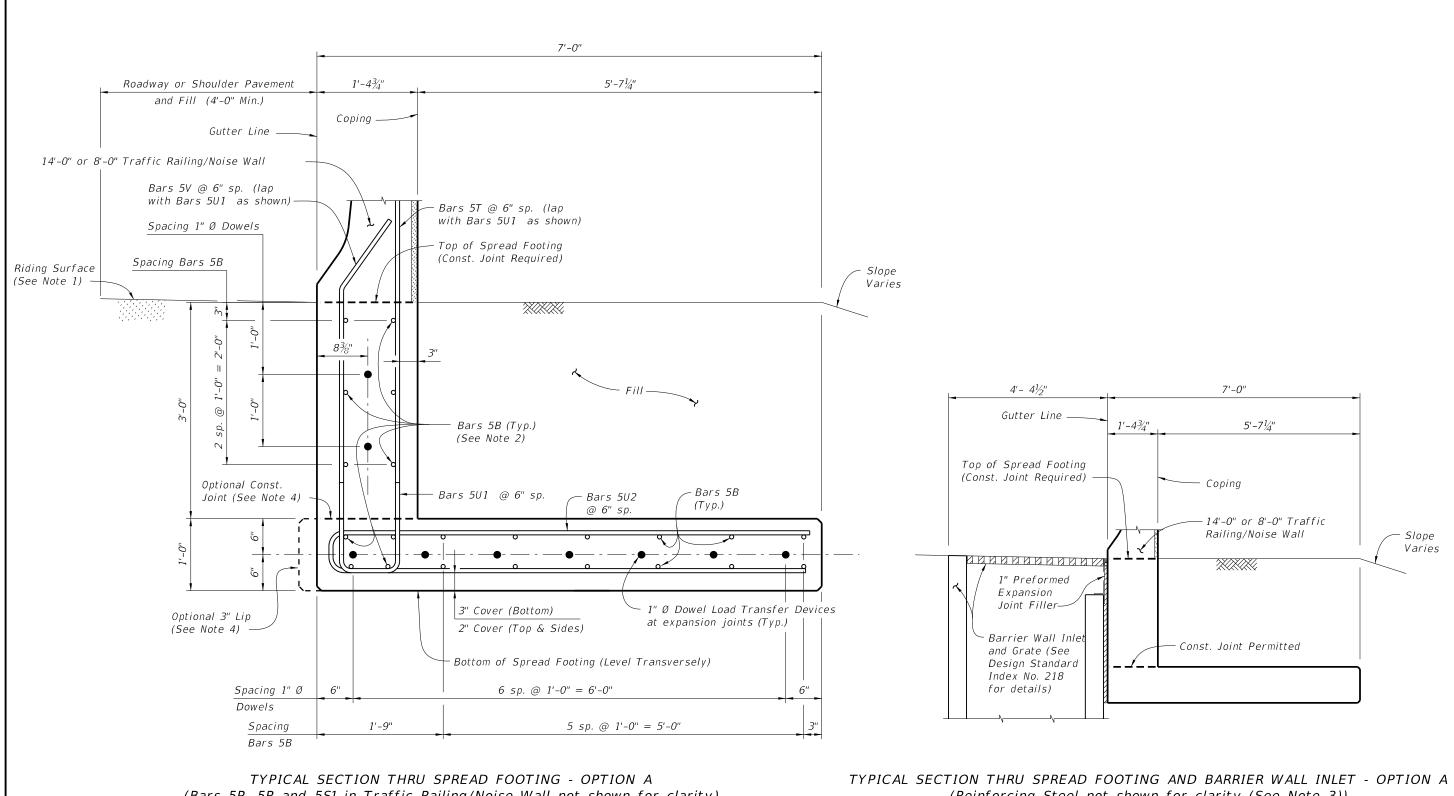
- 1. CONSTRUCTION REQUIREMENTS: Construct the Spread Footing level transversely and expansion joints plumb; do not construct the spread footing perpendicular to the roadway surface. Slip forming is not permitted.
- 2. CONCRETE: Use Class II concrete for slightly aggressive environments. Use Class IV concrete for moderately or extremely aggressive environments. Concrete will be in accordance with Specification Section 346.
- 3. DOWELS: Dowel Load Transfer Devices will be ASTM A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- 4. Construct ¾" Expansion Joints plumb and perpendicular or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown.
- 5. Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- 6. Construct $\frac{1}{2}$ " V-Grooves plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between $\frac{3}{4}$ " Expansion Joints and/or Begin or End Spread Footing. V-Groove locations are to coincide with V-Groove locations in the Railing/Noise Wall.
- 7. FILL REQUIREMENTS: Shoulder or Roadway Pavement and Fill is required on the traffic side of the spread footing for a distance of 4'-0" and the full length of the spread footing (3'-0" minimum depth) on the backside of the spread footing for Option A. Fill is required for a distance of 4'-0" on the backside of the spread footing and the full length of the spread footing (3'-0" minimum depth) on the traffic side of the spread footing for Option B. See Typical Sections on Sheet Nos. 2 and 3 for details.
- 8. Spacing shown is along the Gutter Line.
- 9. Work this Standard Drawing with one or both of the following:
- a. Index No. 5210 Traffic Railing/Noise Wall (8'-0").
- b. Index No. 5211 Traffic Railing/Noise Wall (14'-0").

CROSS REFERENCE:
For Detail "A", see Sheet 3.
For Section A-A and Estimated
Quantities, see Sheet 4.

LAST REVISION 07/01/13

∠ DESCRIPTION:

FDOT DESIGN STANDARDS



(Bars 5P, 5R and 5S1 in Traffic Railing/Noise Wall not shown for clarity)

(Reinforcing Steel not shown for clarity (See Note 3))

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 3. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option A this Sheet.
- 4. Provide 3" lip when optional construction joint is used.

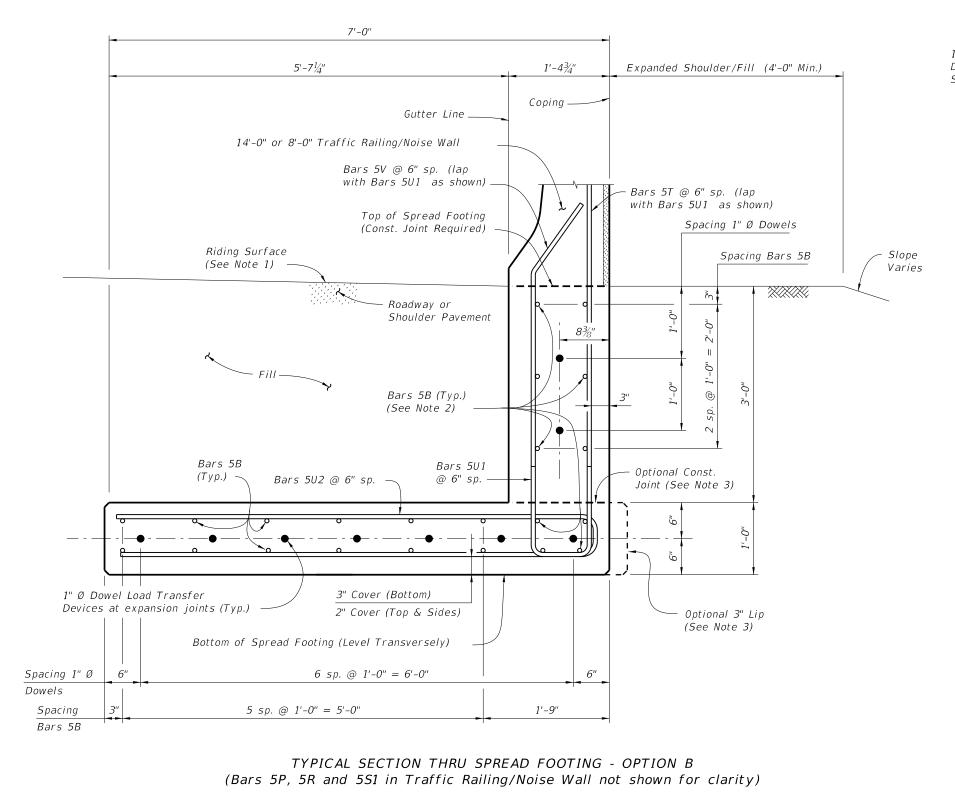
LAST REVISION 07/01/13

≥ DESCRIPTION:

2015 FDOT DESIGN STANDARDS

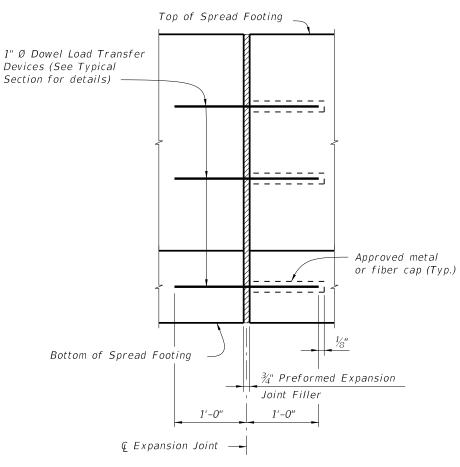
TRAFFIC RAILING/NOISE WALL L-SHAPED SPREAD FOOTING

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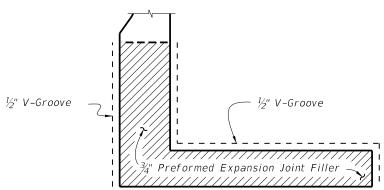
NOTES:

- 1. Match Cross Slope of Travel Lane or Shoulder.
- 2. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 3. Provide 3" lip when optional construction joint is used.



EXPANSION JOINT DETAIL

(Spread Footing expansion joints are required at 3/4" open joints in Traffic Railing/Noise Wall)



DETAIL "A" (Option A Shown, Option B Similar)

(Showing Locations of ½" V-Grooves and $\frac{3}{4}$ " Preformed Expansion Joint Filler)

LAST REVISION 07/01/13

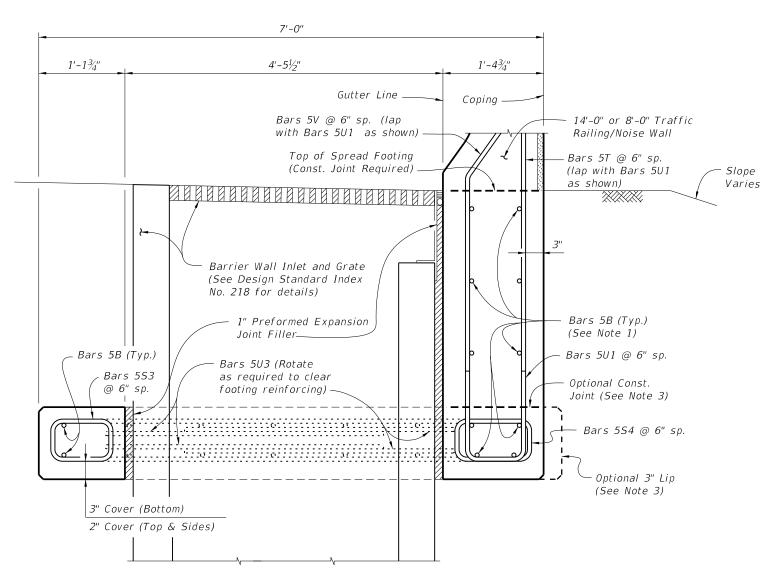
≥ DESCRIPTION:

2015 DESIGN STANDARDS

TRAFFIC RAILING/NOISE WALL L-SHAPED SPREAD FOOTING

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SECTION A-A TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION B (Bars 5P, 5R and 5S1 in Traffic Railing/Noise Wall not shown for clarity)

NOTES:

- 1. Place 10 ~ Bars 5B inside Bars 5U1 as shown.
- 2. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option B on Sheet 3.
- 3. Provide 3" lip when optional construction joint is used.

ESTIMATED L-SHAPED SPREAD	FOOTING	QUANTITIES
ITEM	UNIT	QUANTITY
Concrete (Footing)	CY/FT	0.414
Reinforcing Steel (Typical)	LB/FT	85.53
Additional Reinf. @ Expansion Joint	LB	48.06

(Subtract 12.69 lb/ft from typical reinforcing steel quantity shown on Index No. 5210 to account for the absence of Stirrup Bars 5V and 5S1 in L-Shaped Spread Footings.)

CROSS REFERENCE:

For location of Section A-A, see Sheet 1.

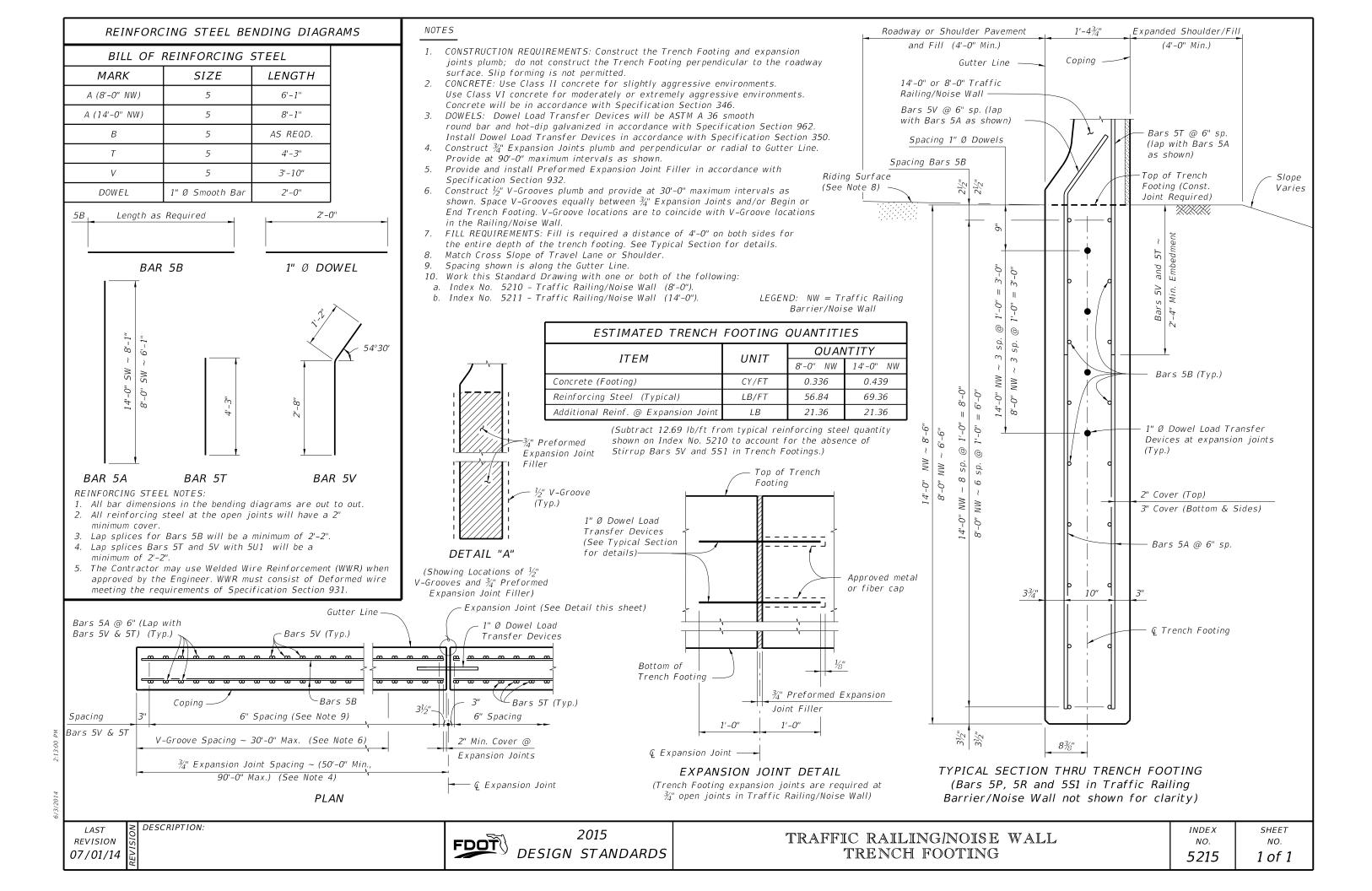
REINFORCING STEEL BENDING DIAGRAMS BILL OF REINFORCING STEEL Length as Required MARK SIZE *LENGTH* AS REQD. В 5 5'-6" С 5 5'-6" 53 5 3'-10" 54 5 4'-3" BARS 5B & 5C T 5 4'-3" 2'-0" U 1 5 8'-0" U2 5 13'-11" UЗ 12'-10" 5 1" Ø DOWEL 3'-10" V 5 DOWEL 1" Ø Smooth Bar 2'-0" 6'-8" 5'-8" BAR 5U2 BAR 5U3 **★** 54°30′ **BAR 5S3** BAR 5T BAR 5V BAR 5U1 BAR 5S4 REINFORCING STEEL NOTES: 1. All bar dimensions in the bending diagrams are out to out.

- 2. All reinforcing steel at the open joints will have a 2" minimum cover.
- 3. Lap splices for Bars 5B will be a minimum of 2'-2".
- 4. Lap splices Bars 5T and 5V with 5U1 will be a minimum of 2'-2".
- 5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

LAST REVISION 07/01/13



INDEX NO. 5214



GENERAL NOTES:

- 1. Construct Perimeter Walls in accordance with Specification Section 534.
- 2. Choice of either Precast Option or Masonry Option is at the discretion of the Contractor. Contractor must also select the desired foundation type. Modifications to this Index is restricted to those required for geometric needs only.
- 3. Post spacing is measured from centerline to centerline of foundation element. For this Index, posts and foundation elements have been designed for 20 ft. spacings. Use post spacings less than 20 feet only at changes in horizontal alignment, wall terminations or to accommodate steep grades.
- 4. See "Perimeter Wall Data Tables" in the plans for project requirements.
- 5. Field verify the locations of all overhead and underground utilities shown in the Wall Control Drawings.

PRECAST OPTION NOTES:

6. WALL NOTES:

- A. Walls may consist of either a single height panel or two stacked panels. Minimum panel height is 4'-3".
- B. Only when reduced overhead clearance between posts prohibits installation of panels from the top, side-installed panels are allowed. After panel is centered between posts, grout between panel ends and posts.

7. CONCRETE AND GROUT:

- A. Cast-in-Place and Precast Concrete: Class IV (f'c = 5500 psi)
- B. Grout for Auger Cast Piling: Minimum 28 Day Strength = 5500 psi
- C. Minimum Compressive Strength for Form Removal and Handling of Posts, Panels and Precast Spread Footings:
 - i. 2,500 psi for horizontally cast post, panels and precast spread footings.
- ii. 2,000 psi for vertically cast panels or when tilt-up form tables are used for horizontally cast panels.

8. REINFORCING STEEL:

- A. Concrete Cover: $1\frac{1}{2}$ " unless otherwise noted.
- B. In addition to the requirements of Specification Section 415, tie post and pile stirrups at the following locations as a minimum:
- i. Post Stirrups Tie at all four corner bars and at every third interior bar intersection.
- ii. Pile Stirrups Tie to the main vertical reinforcing at alternate intersections.

9. NEOPRENE PADS:

A. Neoprene Pads for Collar or Pedestal Bearing Points and between stacked panels may be either Plain Pads or Fiber Reinforced Pads, with a durometer hardness between Grade 50 and Grade 80 in accordance with Specification Section 932-2.

10. CASTING TOLERANCES:

- A. Overall Height & Width: $+/-\frac{1}{4}$ "
- B. Thickness: +/- 1/4"
- C. Plane of side mold: $\pm /-\frac{1}{16}$ "
- D. Openings: +/- 1/2"
- E. Out of Square: $\frac{1}{8}$ " per 6 ft., but not more than $\frac{3}{8}$ " total along any side
- F. Warping: 1/16" per foot distance to nearest corner
- G. Bowing: 1/240 panel dimension

11. PILING:

Construct Auger Cast Piling in accordance with the Plans and Specification Section 455.

MASONRY OPTION NOTES:

DESCRIPTION:

12. WALL NOTES:

- A. Inspect construction in accordance with the International Building Code (IBC) Section 17.
- B. Construct masonry walls using a running bond pattern with concave tooled joints.
- C. Make all elevation changes (steps) in footing and top of wall using full height blocks. Make top of wall steps at pilasters exclusively. Footing steps may be made between pilasters as necessary to maintain minimum soil cover.

MASONRY OPTION NOTES (CONT.):

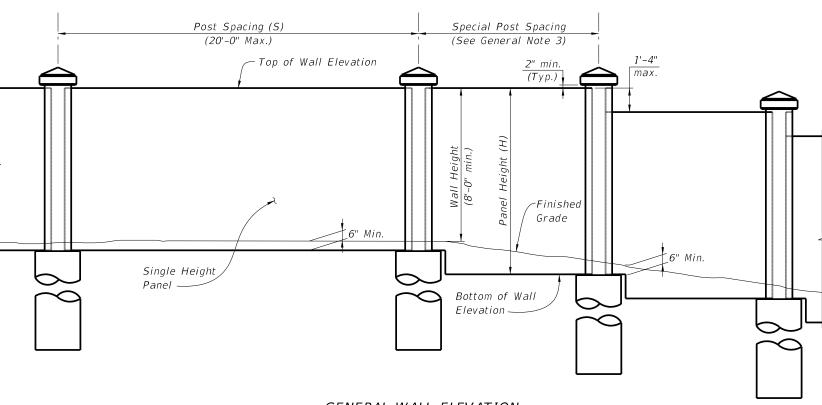
- D. All cells with horizontal or vertical reinforcing bars most be fully grouted.
- E. Use reinforcing bar positioners to maintain vertical and horizontal bar placement.
- F. Fully grout first three courses of the wall.
- G. Joint Reinforcement: Use W 1.7 (9mm) galvanized ladder reinforcing spaced at 16" vertically. Provide special accessories for corners, intersections, etc. Joint reinforcing shall be continuous except it shall not pass through vertical masonry control joints. Lap joint reinforcing a minimum of 6".
- H. Construct expansion joints in the foundation at 90 foot maximum intervals, and directly below a wall control joint.
- I. Dowel Load Transfer Devices will be ASTM A 36 smooth round bars hot-dip galvanized in accordance with Specification Section 962. Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- J. For spread footings, use a walk-behind compactor of at least 600 lbs. in weight. Obtain a minimum density of 95% of the maximum dry density as determined by FM 1 T-180. Perform soil density tests at 100 foot intervals.
- K. Protect walls during construction from soil, grout or mortar stains. Clean wall as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- L. Use soap and potable water to clean walls. If stain removal is necessary, use a cleaning method indicated in NCMA TEK 8-2A applicable to the type of stain on the exposed surface.
- M. During construction, cover tops of walls, with waterproof sheeting at the end of each day's work, or when construction is not in progress. Extend sheeting a minimum of 2 feet down each side and secure in place.
- N. Comply with Hot Weather Requirements in ACI 530.1.

13. MATERIALS:

- A. Concrete Masonry Units (CMU): Provide normal weight blocks.
- B. Cast-In-Place Concrete: Class II (f'c = 3400 psi)
- C. Mortar: Type S meeting requirements of ASTM C1329
- D. Grout: Type S; coarse grout.
- E. Aggregate for Grout: Meet the requirements of ASTM C404 or Specification Section 901 size 8 or 89.

14. STORAGE OF MATERIALS:

- A. Store CMU's on elevated platforms in a dry location or under cover.
 - If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp or exceded the manufacturers shelf life.
- C. Store masonry accessories and reinforcing to prevent corrosion and accumulation of dirt and oil.

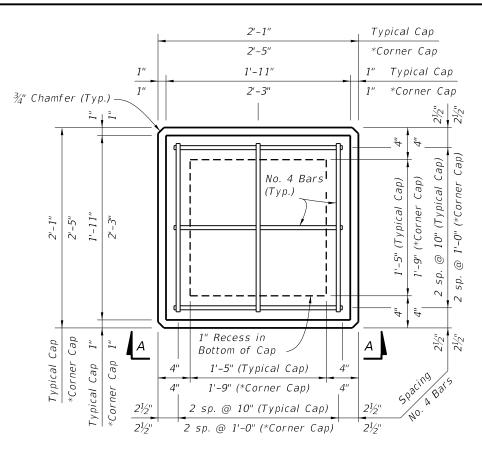


GENERAL WALL ELEVATION
(Precast Option with SIngle Height Panel Shown, Others Similar)

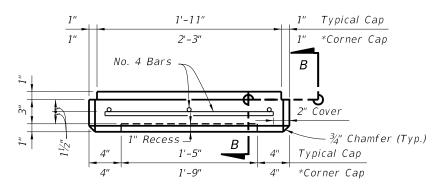
GENERAL NOTES

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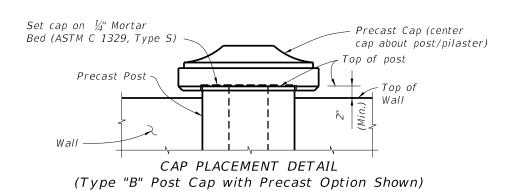


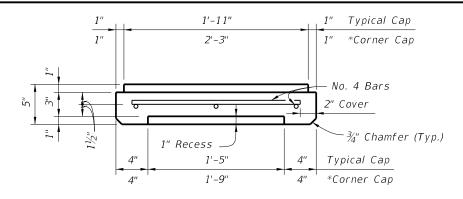


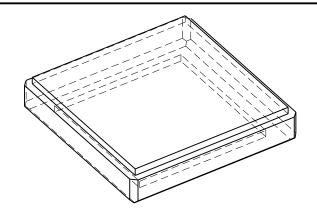
PLAN VIEW
(Type "A" Cap Shown, Type "B" & "C" Caps Similar)



VIEW A-A (Type "A" Cap Shown, Type "B" & "C" Caps Similar)





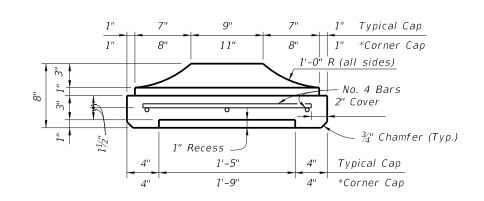


SECTION B-B

PICTORIAL VIEW

TYPE "A" CAP DETAILS =

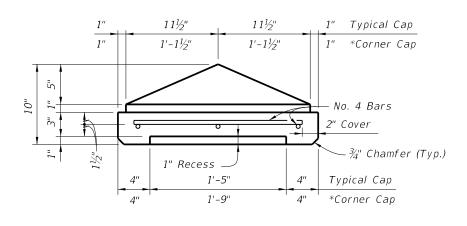
*Precast Option only

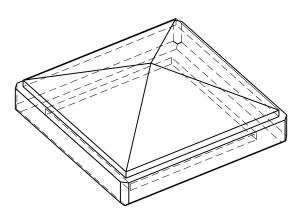


SECTION B-B

PICTORIAL VIEW

TYPE "B" CAP DETAILS =





SECTION B-B

PICTORIAL VIEW

TYPE "C" CAP DETAILS =

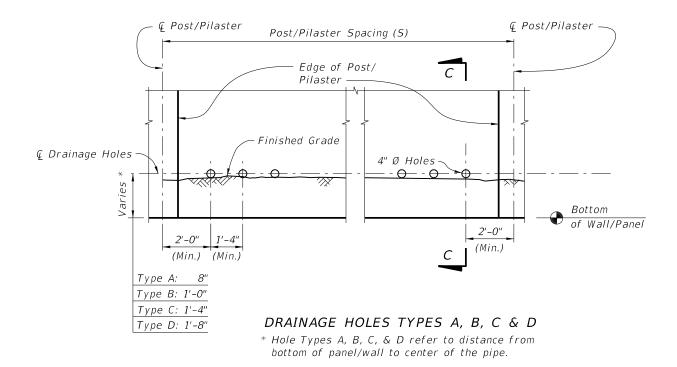
POST CAP DETAILS

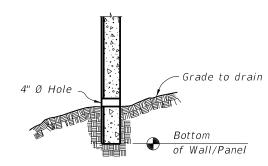
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PERIMETER WALLS

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SECTION C-C (Precast Option Shown, Masonry Option Similar)

- Drainage holes may be formed with 4" NPS PVC pipe that may remain in place.
 See Wall Control drawings for number, Type and location/ spacing of drainage holes.

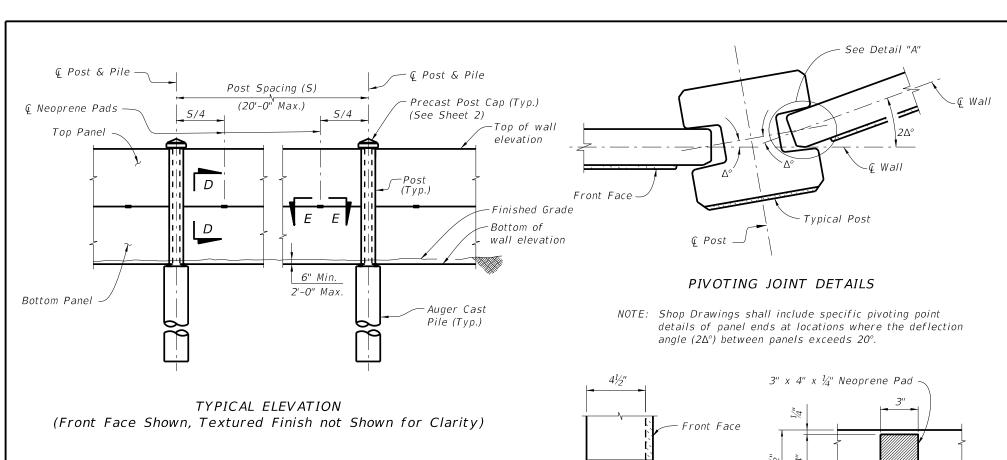
DRAINAGE DETAILS

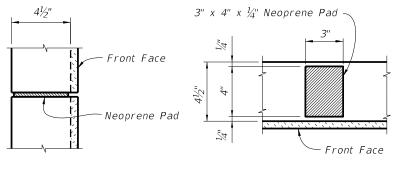
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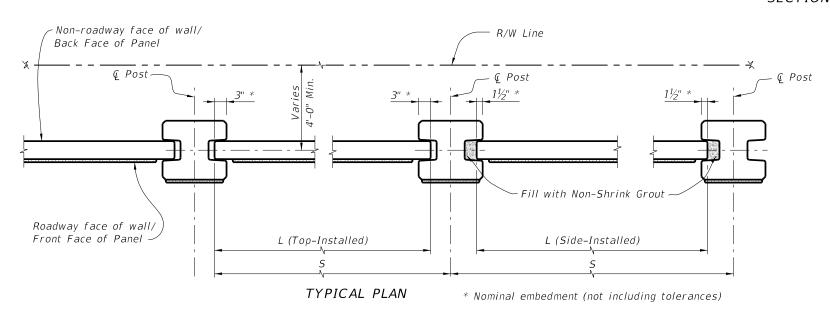
PERIMETER WALLS

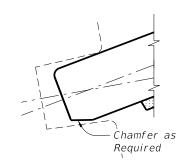
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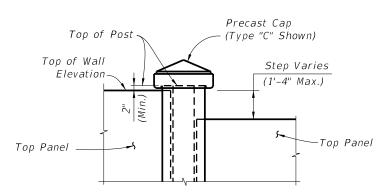


SECTION D-D SECTION E-E

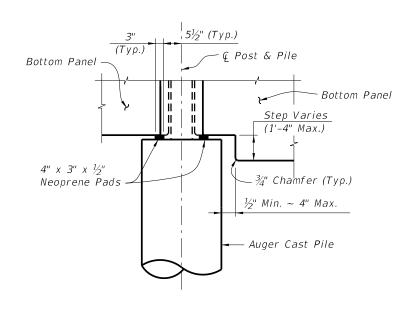




DETAIL "A" (Back Face Chamfer Shown Front Face Chamfer Similar)



ELEVATION STEP AT TOP OF WALL (Precast Panel Cap not Shown)

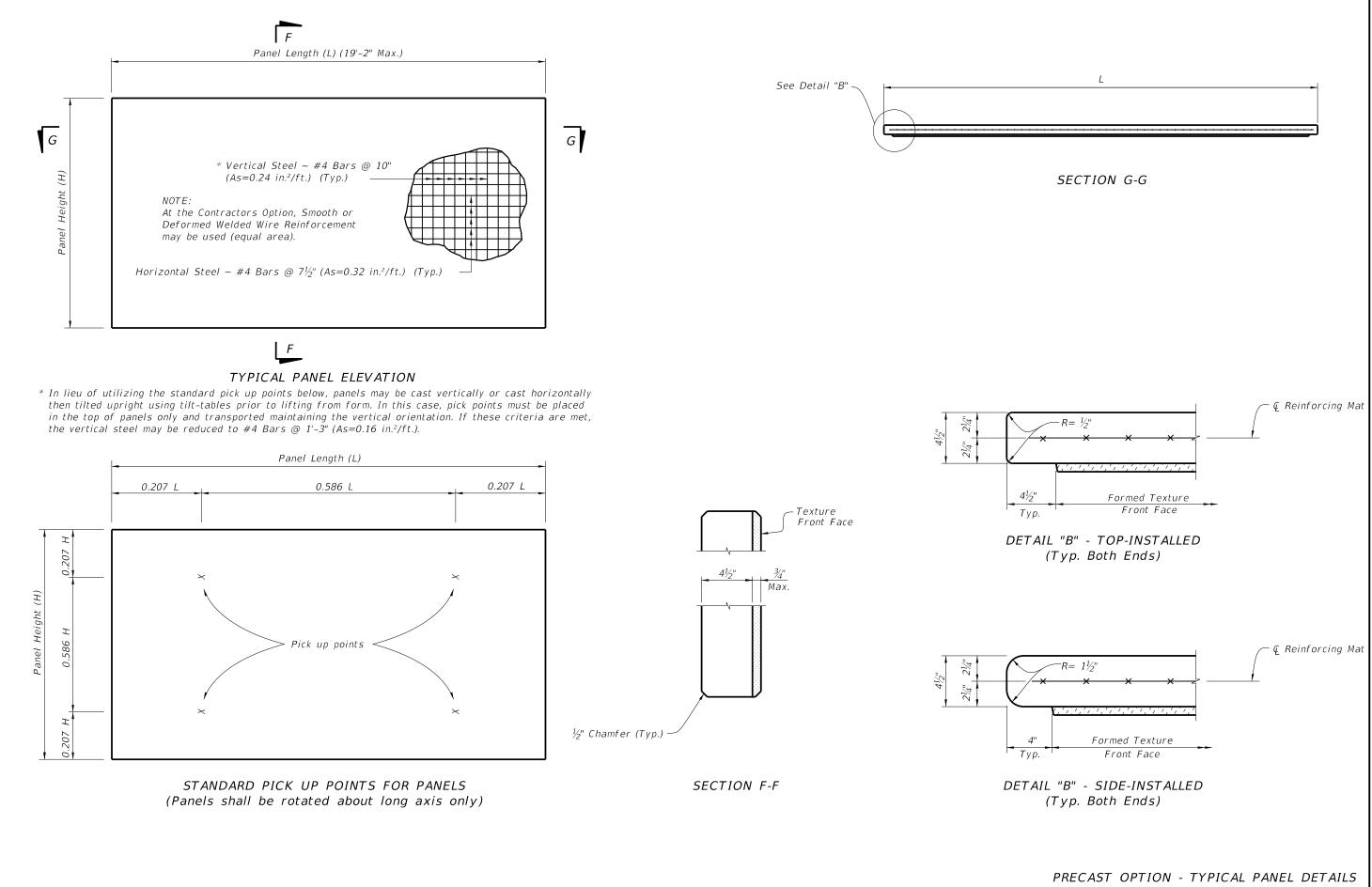


ELEVATION STEP AT BOTTOM OF WALL

PRECAST OPTION - TYPICAL DETAILS

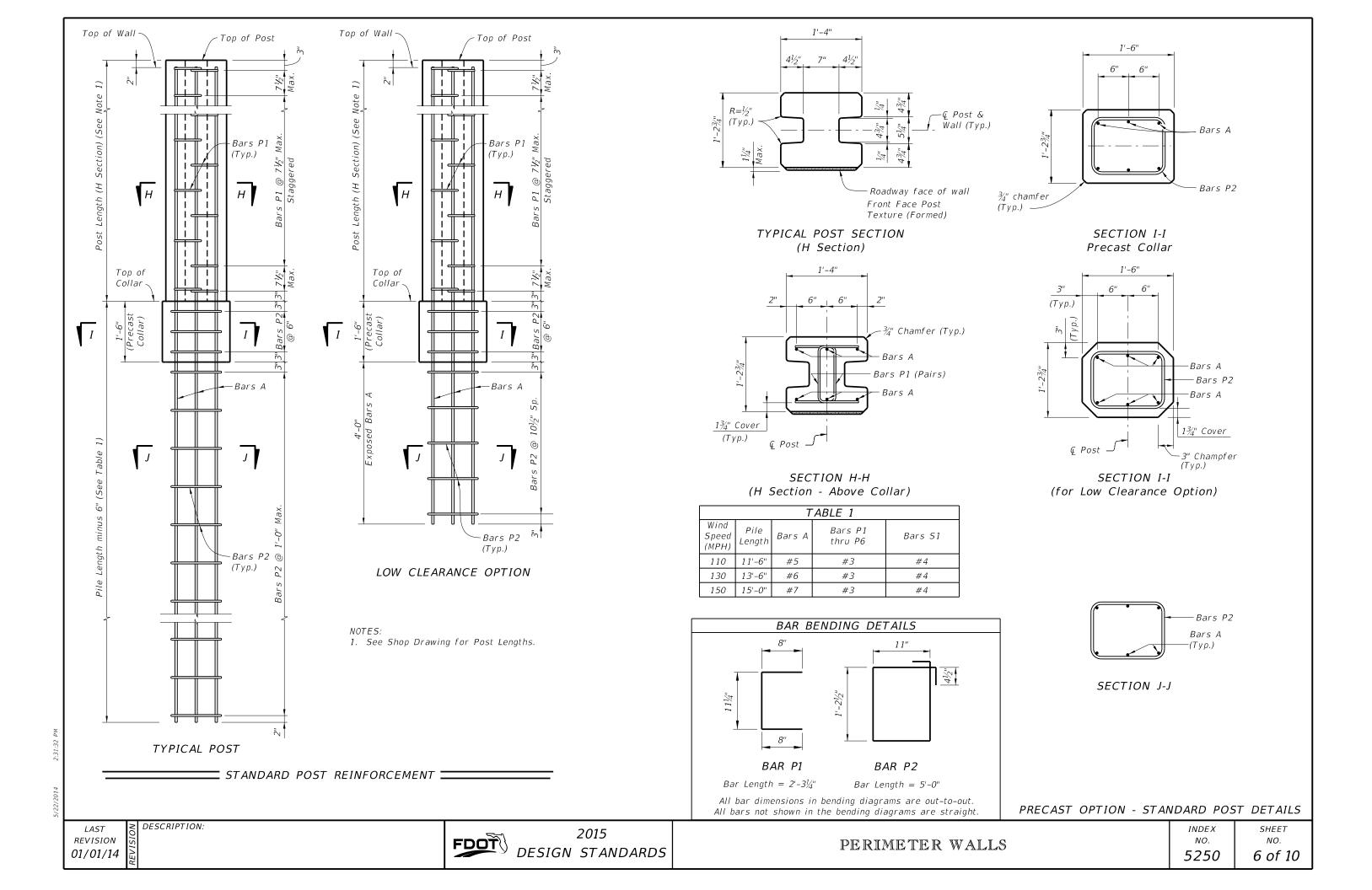
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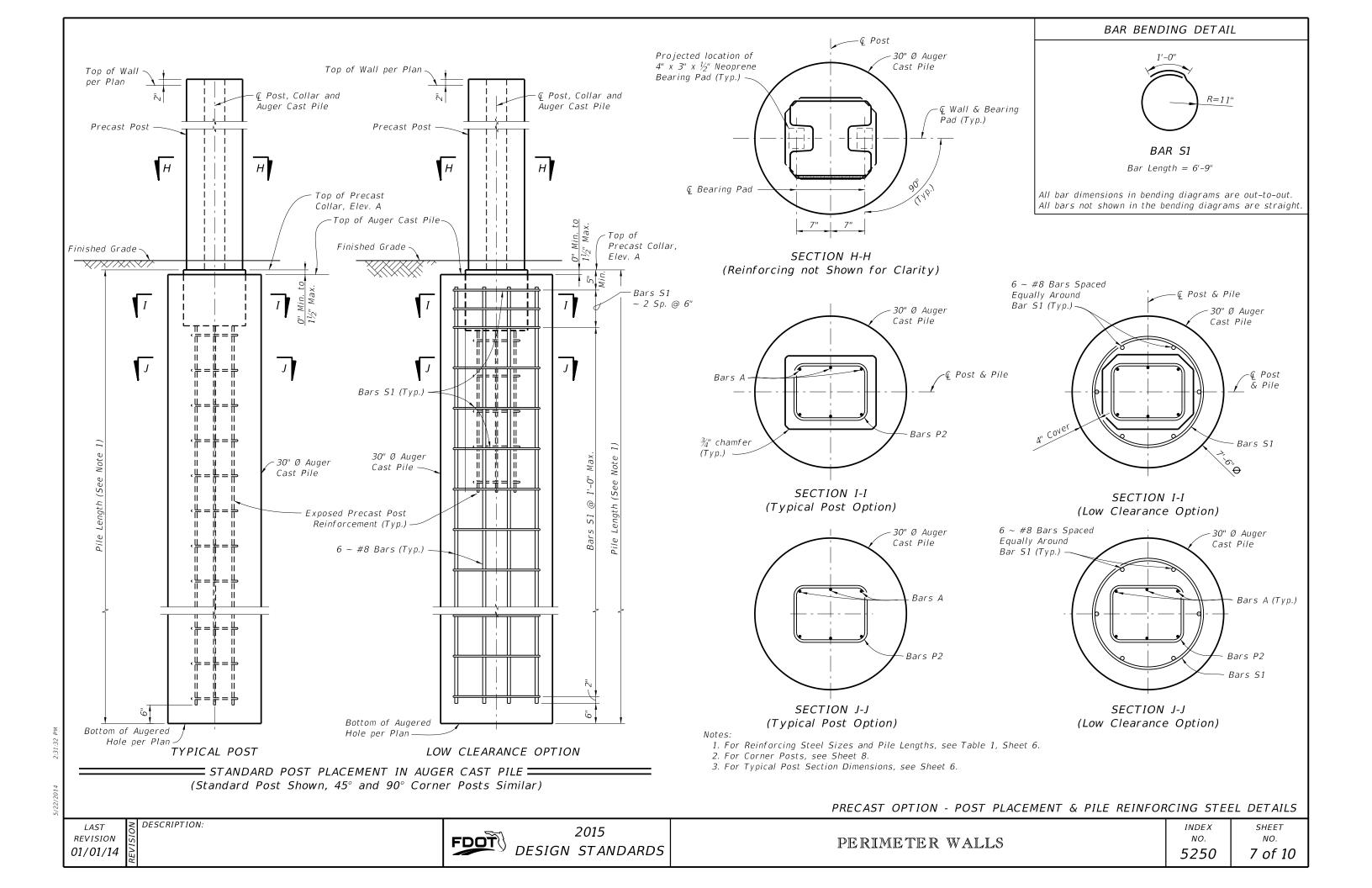
2015 FDOT DESIGN STANDARDS

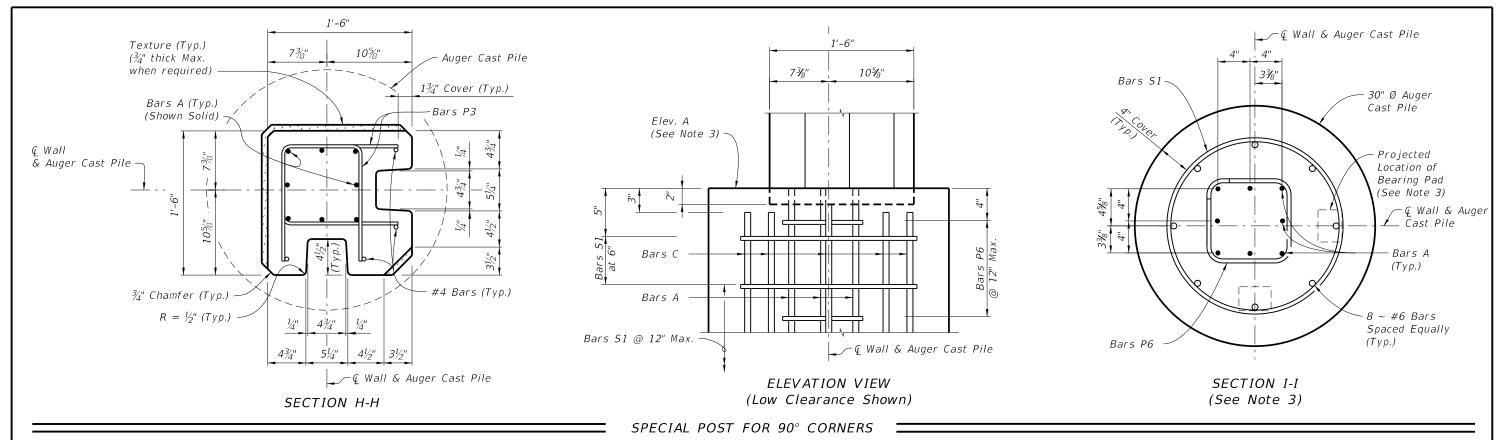


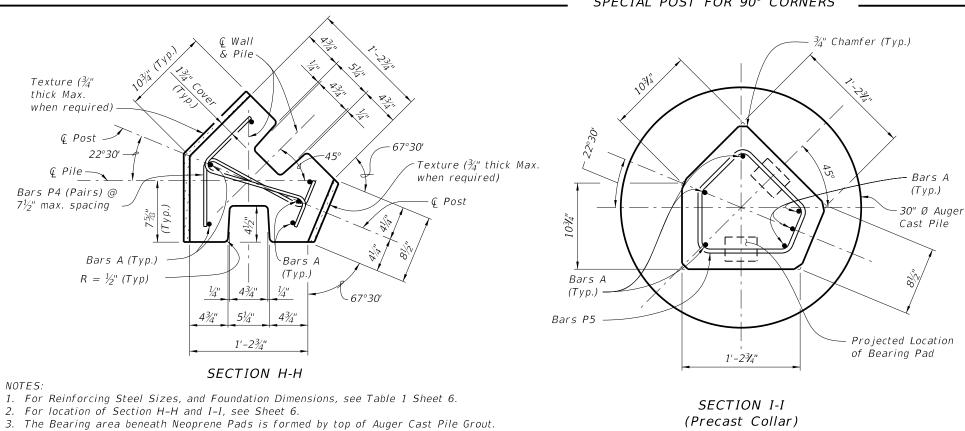
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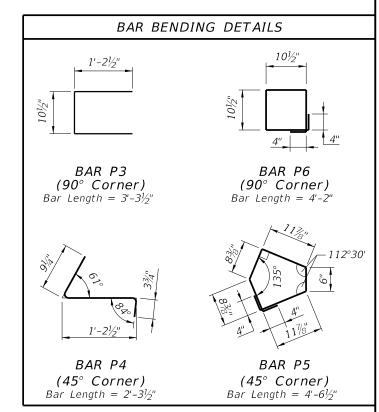
2015 FDOT DESIGN STANDARDS











All bar dimensions in bending diagrams are out-to-out. All bars not shown in the bending diagrams are straight.

SPECIAL POSTS FOR 45° CORNERS

PRECAST OPTION - SPECIAL CORNER POSTS

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DESIGN STANDARDS

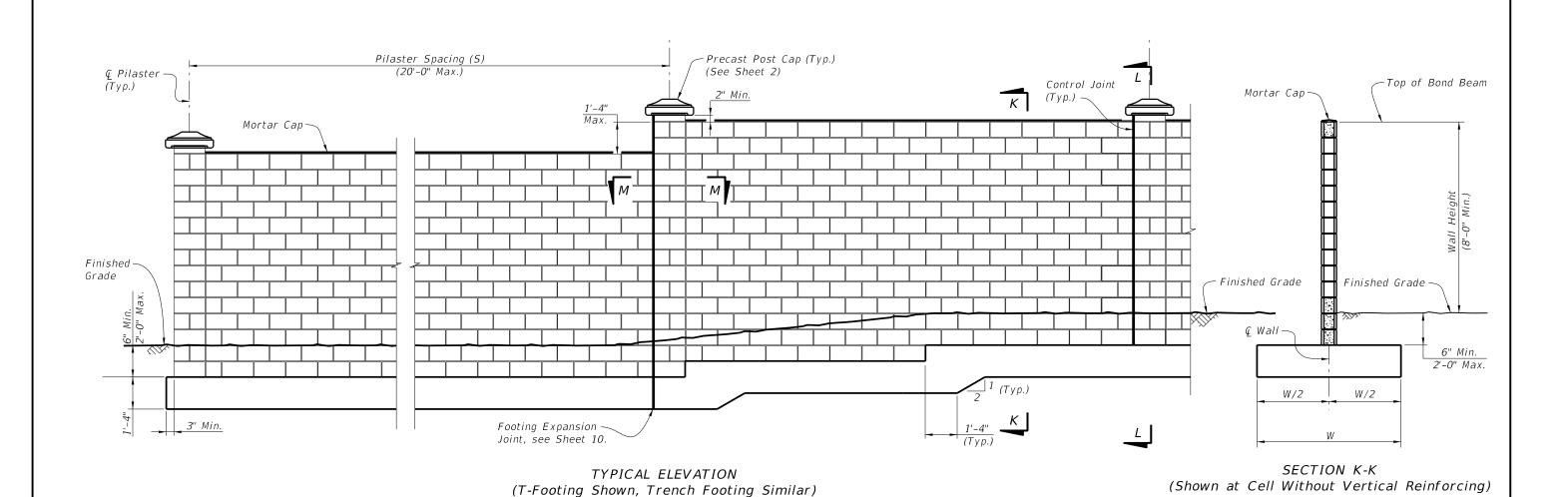
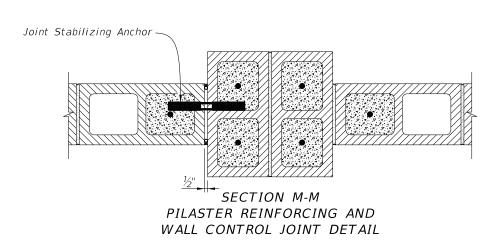


Table 2					
Wind Speed Category	Masonry Walls		Foundations		
			Bars	T-Footing Width	Trench Footing
	Bars V1	SV Spacing	F1 & F2	(W)	Depth (D)
110	#5	2'-8"	#5	4'-4"	5'-6"
130	#5	2'-0"	#5	5'-0"	6'-4"
150	#5	1'-4"	#5	6'-0"	7'-0"

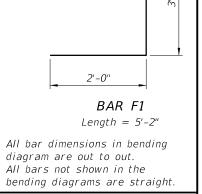
Notes:

- 1. End vertical reinforcing bars $1\frac{1}{2}$ " from top of bond beam blocks and horizontal bars $1\frac{1}{2}$ " from edge of control joints.
- 2. Do not continue horizontal #4 Bond beam reinforcing through control joint.
- 3. Use stainless steel joint stabilizing anchors spaced at 16" vertically at all control joints. Install per manufacturers instructions.
- 4. Seal Control Joints with backer rod and Type "A" silicone sealant (top and both sides).
- 5. See Sheet 10 for Bar placement details.
- 6. For Pilaster Cap Details, see Sheet 2.

≥ DESCRIPTION:



PERIMETER WALLS



BAR BENDING DETAIL

(Min.)

MASONRY OPTION

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