STEEL STRAIN POLE NOTES

- 1) Designed in accordance with FDOT Structures Manual.
- 2) Perform all welding in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). No Field welding is permitted on any part of the pole.
- 3) See Standard Index No. 17727 for grounding and span wire details.
- 4) Foundation Materials:
 a. Reinforcing Steel: ASTM A615 Grade 60.
 b. Concrete: Class IV, (Drilled Shaft) 4,000 psi (f'c) minimum Compressive Strength at 28-days for all environmental classifications.
 - Anchor Bolts: ASTM F1554 Grade 55 with ASTM A563 Grade A heavy-hex nuts and plate washers (all С. galvanized in accordance with ASTM F2329).
- 5) Strain Pole Specifications: a. Poles: ASTM A1011 Grade 50, 55, 60 or 65 (less than ¼") or ASTM A572 Grade 50, 55, 60, or 65 (1/4" and over) or ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield).

 - Weld Metal: E70XX. С.
 - Bolts: A325, Type 1. Hole Diameter: Bolt diameter plus $\frac{1}{16}$ ". d.
 - Base Plate: Hole Diameter; anchor bolt diameter plus 1/2
 - Handhole: Frame; ASTM A709 Grade 36 or ASTM A36, Cover; ASTM A1011 Grade 50, 55, 60 or 65.

 - Aluminum Caps and Covers: ASTM B-26 (319-F). Stainless Steel Screws: AISI Type 316. Galvanization: All nuts, bolts and washers; ASTM F2329, All other steel; ASTM A123.
- 6) Pole Notes:
 - See the Signalization Plans for clamp spacing, cable sizes and forces, signal and a. sign
 - mounting locations and details.
 - b.

 - Tapered with the diameter changing at a rate of 0.14 inch per foot. Transverse welds are allowed only at the base. Poles constructed out of two or more sections with overlapping splices are not d. permitted.
 - Locate the handhole 180 degrees from 2-inch wire entrance pipe
 - Furnish each pole with a 2"x4" (max) aluminum identification tag. Submit details for approval. Secure to pole with 0.125" stainless steel rivets or screws. Locate Identification Tag on the inside of pole and visible from handhole. Include the following information: Financial Project ID, Pole Type, Pole Height, Manufacturer's Name, F of Steel and Base Wall Thickness.
- 7) One hundred percent of full-penetration groove welds and a random 25 percent of partial penetration groove welds shall be inspected. Full-penetration groove weld inspection shall be performed by nondestructive methods of radiography or ultrasonics.
- 8) In accordance with specification 5-1.4.2, shop drawings are only required for additions, deletions, or modifications to this Design Standard.
- 9) Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. When CSL access tube locations conflict with anchor bolt locations, move the CSL access tube location ± two inches along the inner circumference of the reinforcing cage. Notify the Engineer before excavating the shaft if the CSL access tube locations cannot be moved out of conflict with anchor bolt locations.

As required

(see Signalization Plans)

(For Single Point Connection) -

2" Pipe For Wire Entrance (see Wire Entrance Detail on Sheet 3 of 3) (For Two Point

Identification Tag - See Note 6.

Wire screen see Spec. 649-6

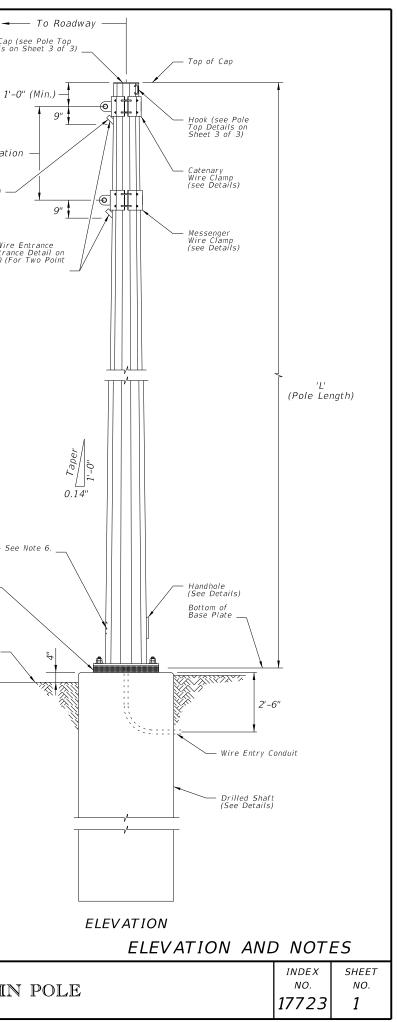
Top of Finished Grade (make Drilled Shaft flush with adjacent concrete slabs, use appropriate expansion joint filler)

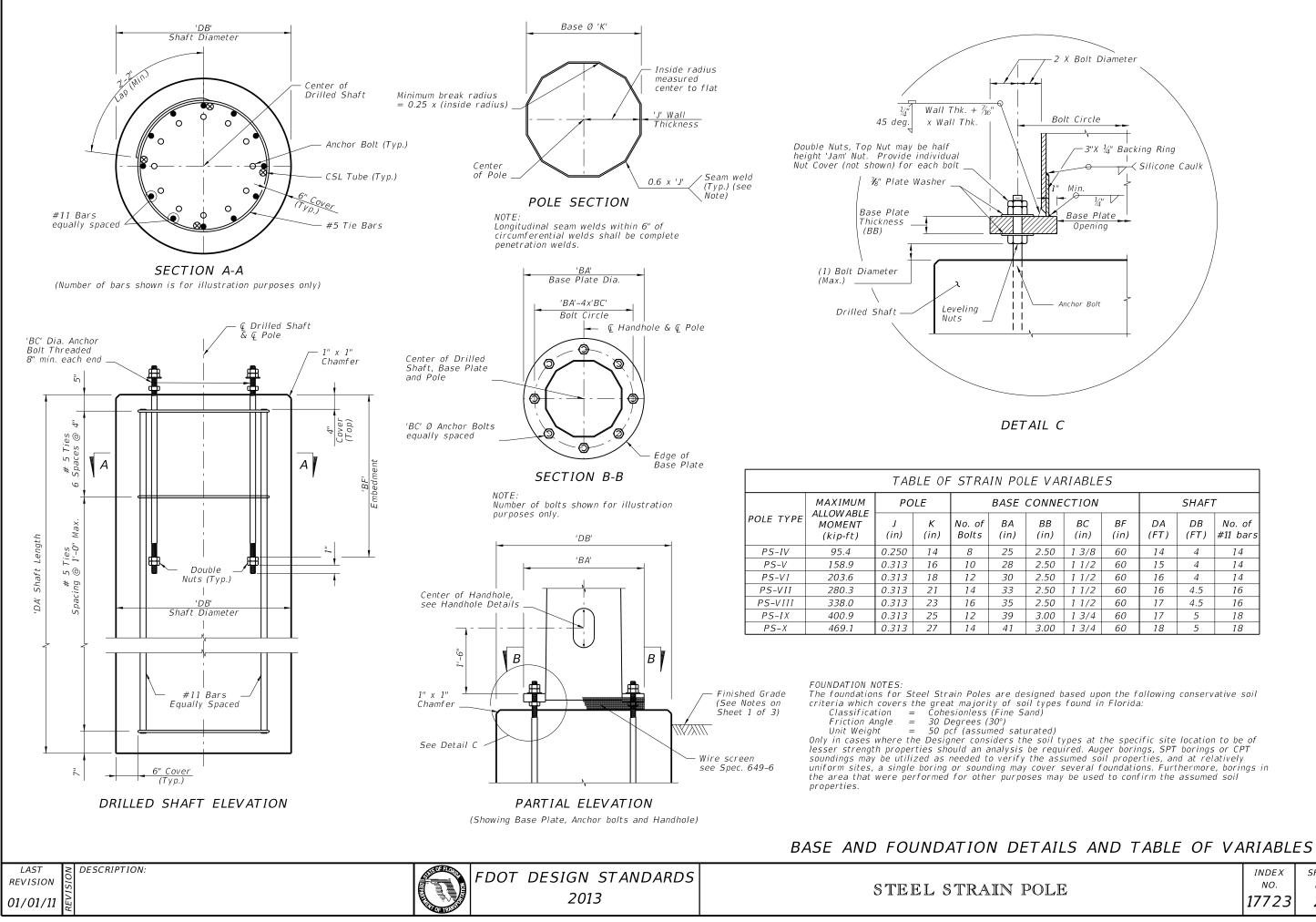
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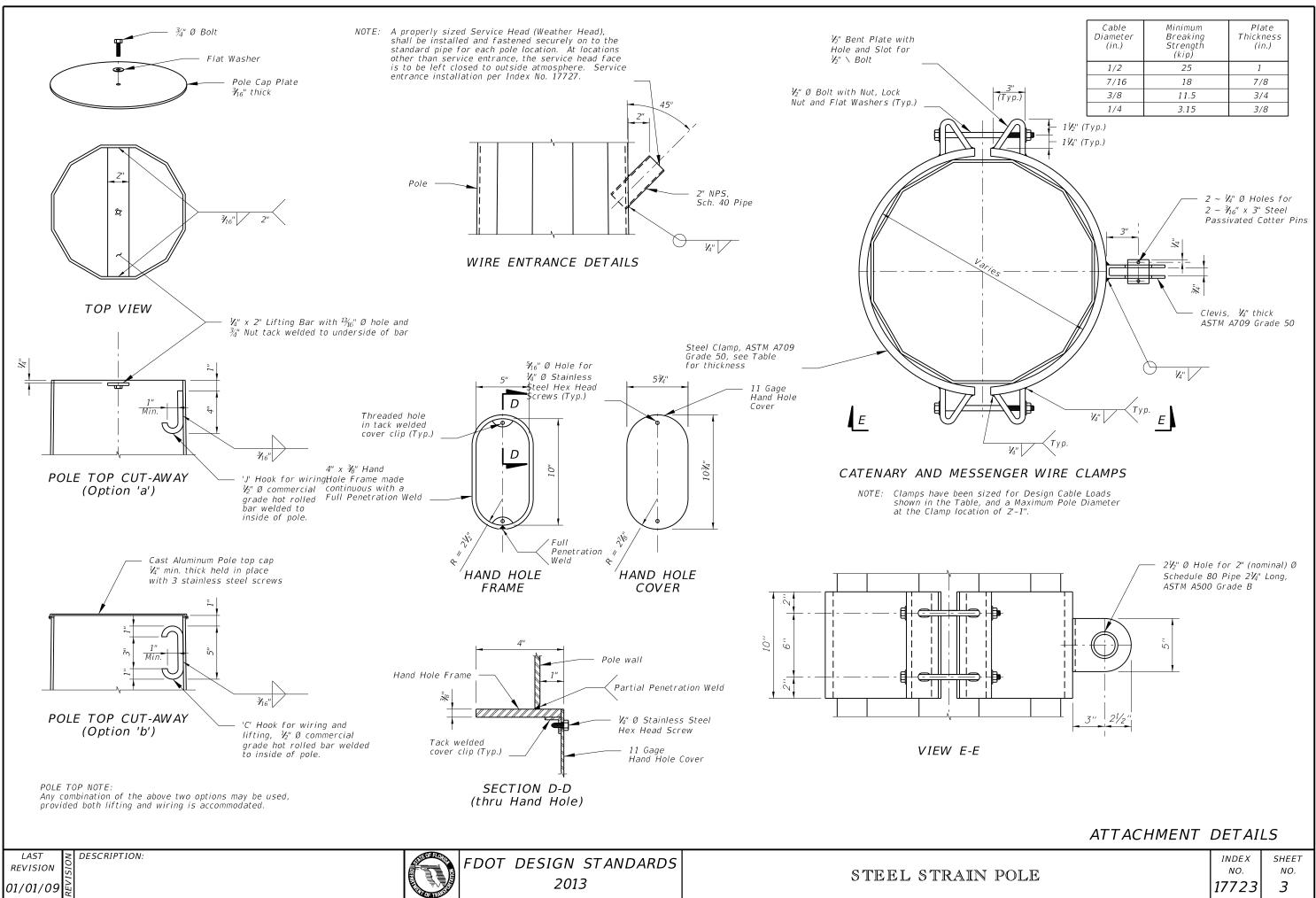






LE VARIABLES						
CONNECTION			SHAFT			
	BB (in)	BC (in)	BF (in)	DA (FT)	DB (FT)	No. of #11 bars
	2.50	1 3/8	60	14	4	14
	2.50	1 1/2	60	15	4	14
	2.50	1 1/2	60	16	4	14
	2.50	1 1/2	60	16	4.5	16
	2.50	1 1/2	60	17	4.5	16
	3.00	1 3/4	60	17	5	18
	3.00	1 3/4	60	18	5	18

	INDEX	SHEET
POLE	NO.	NO.
	17723	2



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