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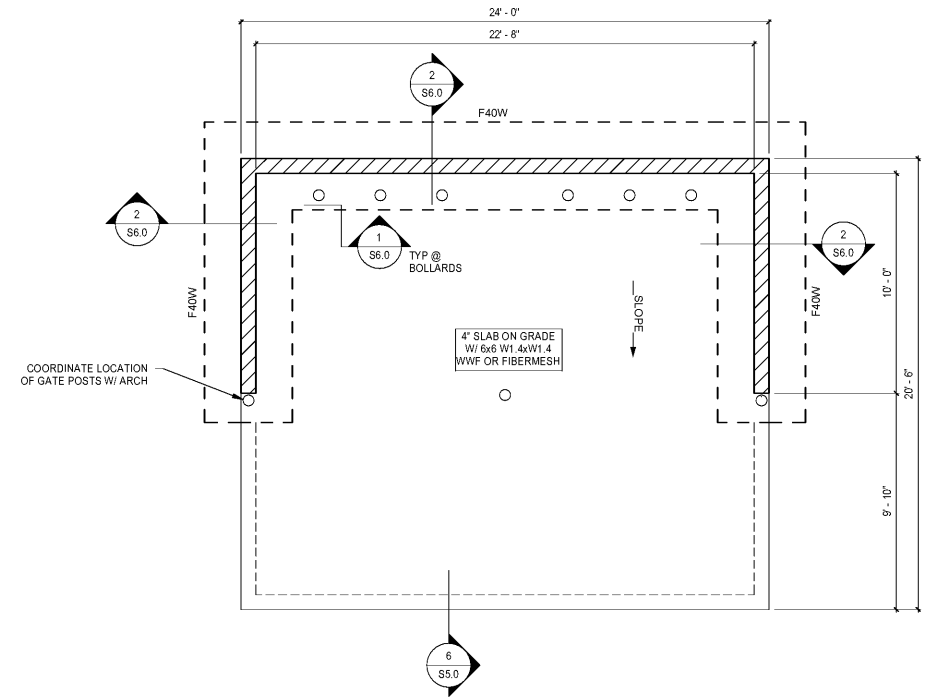
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STRUCTURAL CONSULTANT
 SELECT STRUCTURAL
 12573 NEW BRITANNY BLVD
 FORT MYERS, FL 33907

7-ELEVEN STORE
 SW/O CARROLL ST. & DYER BLVD.
 KISSIMMEE, FL 34741
 CREGHTON CONSTRUCTION & MANAGEMENT, LLC
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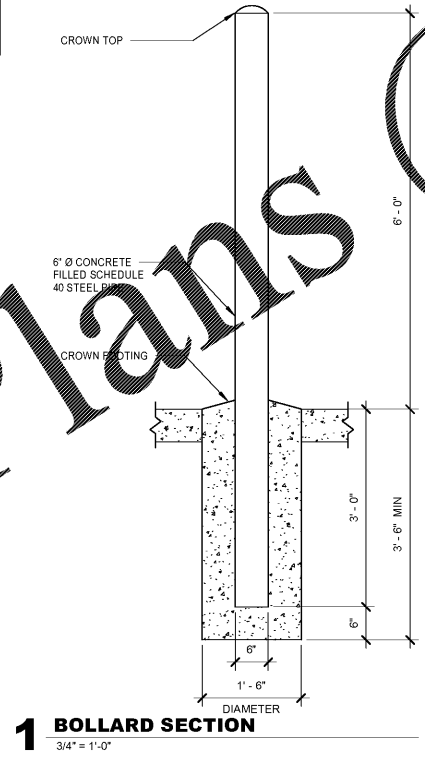
DUMPSTER ENCLOSURE FOUNDATION PLAN

1/4" = 1'-0"

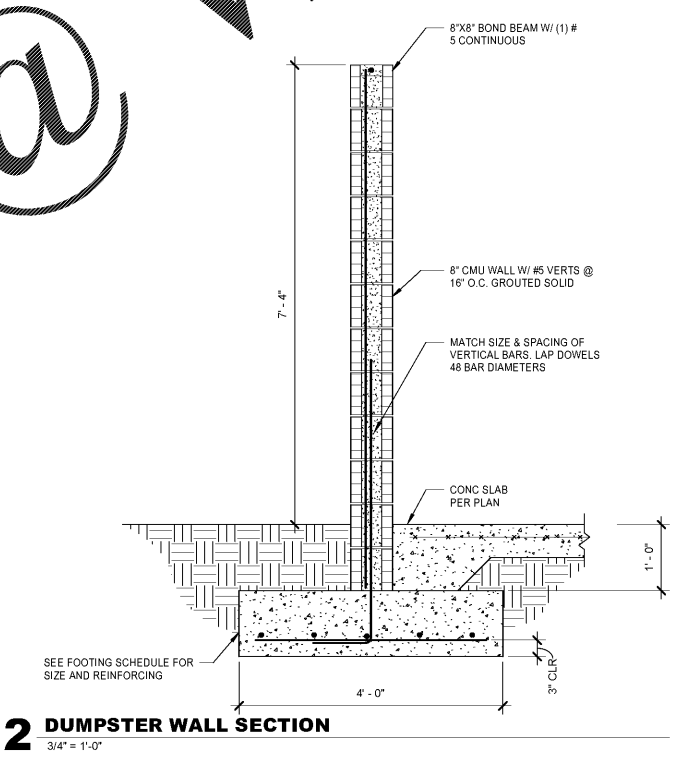
FOUNDATION PLAN NOTES:

- SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATION IN FLOOR SLABS.
- DO NOT SCALE DRAWINGS. VERIFY/COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- FX INDICATES FOOTING TYPE, SEE SCHEDULE THIS SHEET.
- (X'-X') INDICATES TOP OF FOOTING ELEVATION (-1'-0" UNO).
- NOT ALL FOOTINGS IN FOOTING SCHEDULE APPLY TO THIS SHEET. SEE PLAN FOR FOOTING TAGS.

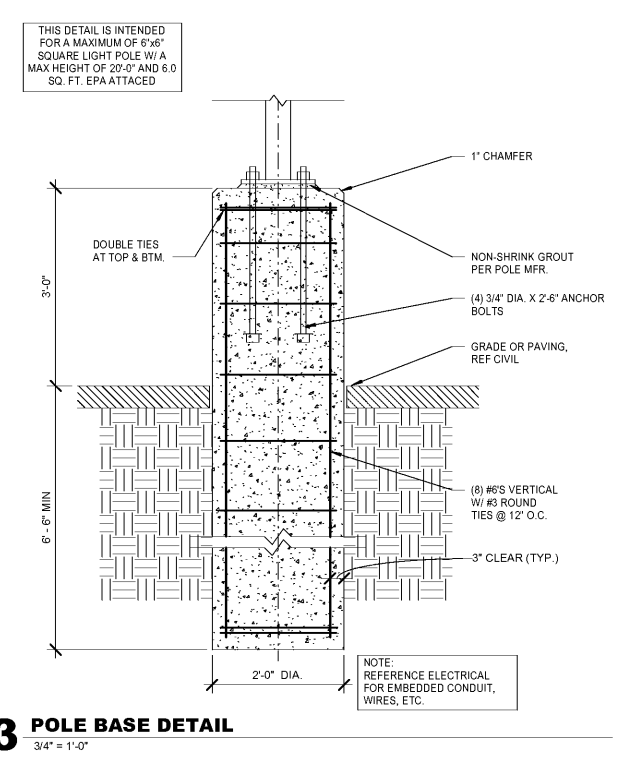
MARK	WIDTH	DEPTH	REINFORCING
F20W	2'-0"	1'-0"	(3) #5 CONT
F40W	4'-0"	1'-0"	(5) #5 CONT & #5 @ 12" OC TRANSVERSE



1 BOLLARD SECTION
3/4" = 1'-0"



2 DUMPSTER WALL SECTION
3/4" = 1'-0"



3 POLE BASE DETAIL
3/4" = 1'-0"

Project: 7-Eleven, Kissimmee at Carroll and Dyer
 12/19/2017

Select Structural
 12573 New Brittany Blvd
 Fort Myers, FL 33907
 Ph: 239-210-5290

Pole Dimensions
 Pole height: 20.0 ft
 Shape: SQUARE
 Pole size (top): 6.0 in
 Pole size (bottom): 6.0 in
 Calculated pole area = 10.90 ft²

Attached EPA
 Fixture EPA*: 6.0 ft²
 Mounting Height: 20.0 ft
 *EPA includes shape factor

Pier Base
 Diameter: 24 in
 Projection: 36 in
 Area = 6.0 ft²

Wind Loading (Ultimate)
 Wind Speed (V): 140 mph
 Exposure Category: C
 Directionality (K_d): 0.90
 Gust Factor (G): 0.85
 Pole Shape Factor (C_p): 2.00
 Pier Shape Factor (C_f): 0.80

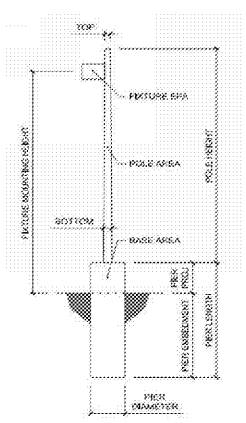
Forces and Moments
 $q_u = 0.00256 \times K_f \times K_d \times V^3$ (ultimate)
 $p = (0.6) q_u \times G \times C_f$ (allowable stress design)

	K _f	q _u (lb/ft ²)	p (ASD)	F	H	M
Pole	0.90	21 psf	42 psf	415 lb	13 ft	5395 lb-ft
EPA	0.90	41 psf	21 psf	125 lb	20.0 ft	2500 lb-ft
Base	0.60	27 psf	11 psf	67 lb	1.5 ft	101 lb-ft

F (total) = 607 lb M (total) = 7996 lb-ft

Pole Footing Embedment (Unrestrained)
 Soil passive pressure: q = 300 psf / ft
 Pier depth: d = 5.25 ft (equiv) = 24 in
 Pier diameter: b = 24 in
 $S_p = (d)(q)/3 = 525$ psf
 $A = (2.34 P)/S_p = 1.15$ ft² (from Section 807.3.1, F907.3.2)
 $d = (A/2)[1 + (4.36 h/A)]^{1/2} = 5.25$ ft

24" diameter pier with 5" embedment



Order Plans @

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Engineer Name - SHAWN ANDERSON
 Engineer Number - 53515

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REVISIONS	
NO.	DESCRIPTION

PROJECT NUMBER: 17111
 RELEASE DATE: 12/19/2017

DUMPSTER ENCLOSURE

S6.0