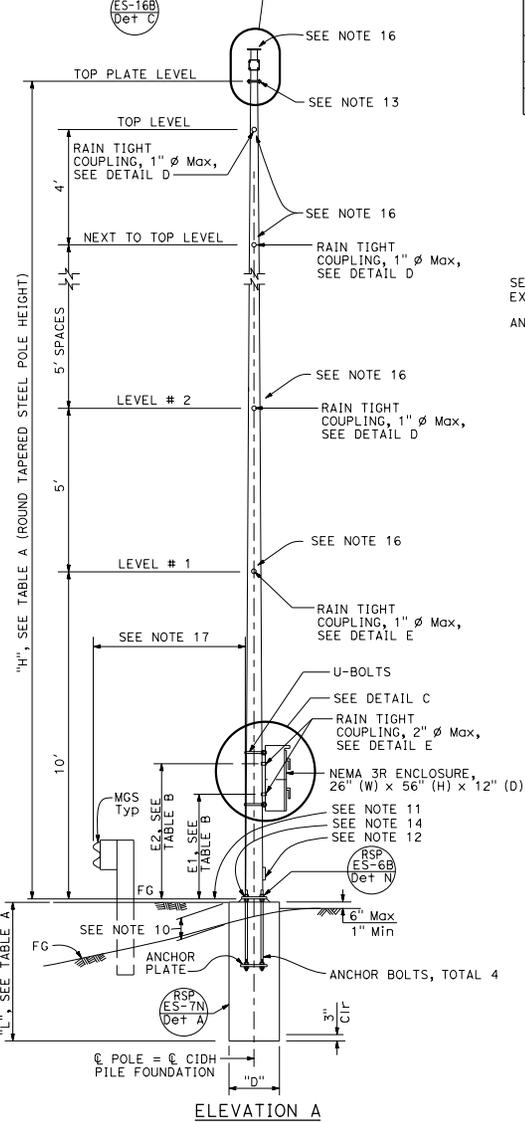


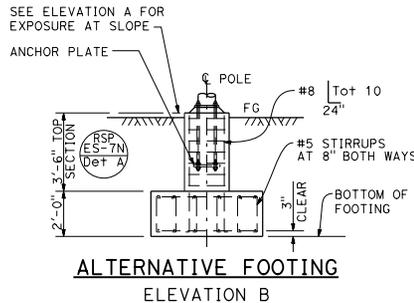
WHEN CCTV IS REQUIRED, CCTV MOUNTING ADAPTER DETAIL SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S APPROVAL, SEE RSP ES-16B Det C



POLE TYPE	POLE DATA				BASE PLATE DATA				CIDH PILE DATA			
	HEIGHT "H"	Min OD		THICKNESS	"C"	THICKNESS	ANCHOR BOLTS SIZE	BC = BOLT CIRCLE	"D"	"L"		
		BASE	TOP							LEVEL GROUND	UP TO 2:1	
VDS 30	30'	8"	3 3/4"	0.11793"	1'-1 1/2"	1 1/2"	1 1/2" ϕ x 3'-0"	1'-0"	2'-6"	6'-0"	8'-0"	
VDS 35	35'	8 3/4"	3 1/8"	0.1196"	1'-6"	2"	1 1/2" ϕ x 3'-0"	1'-4"	3'-0"	7'-0"	9'-0"	
VDS 40	40'	12"	8 3/8"	0.11793"	1'-6"	2"	1 1/2" ϕ x 3'-0"	1'-4"	3'-0"	9'-0"	11'-0"	

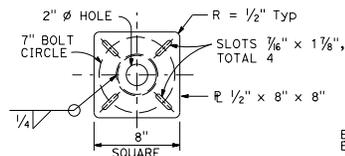
POLE TYPE	COUPLING	
	E1(Max)	E2(Max)
VDS 30		
VDS 35	3'-6"	4'-9"
VDS 40		

GROUND LEVEL	SPREAD FOOTING	
	FOOTING SIZE (LENGTH x WIDTH x DEPTH)	REINFORCEMENT TOP & BOTTOM
	UP TO 2:1	
LEVEL	8'-6" x 8'-6" x 2'-0"	12 - #5 EW
UP TO 2:1	10'-0" x 10'-0" x 2'-0"	15 - #5 EW

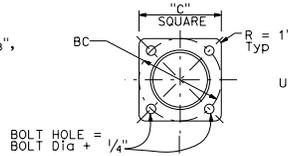


LOCATION	MAXIMUM TOTAL EPA PER LEVEL (SQ. FEET)	MAXIMUM TOTAL WEIGHT (lb)
LEVEL #1		
LEVEL #2	14	200
LEVEL #3	10 ***	
LEVEL #4 (VDS 35 AND VDS 40 ONLY)		
LEVEL #5 (VDS 40 ONLY)	2.5	50
NEXT TO TOP LEVEL		
TOP LEVEL		
ON TOP PLATE LEVEL **		

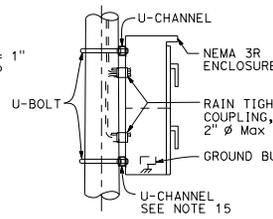
* MAXIMUM HORIZONTAL EXTENT BEYOND POLE FACE IS 4 FEET.
** MAXIMUM EXTENT ABOVE TOP PLATE IS 3 FEET.
*** 14 IF LEVEL #1 IS ZERO.



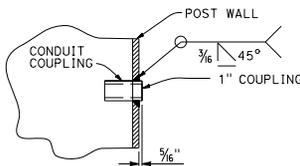
TOP PLATE DETAIL A



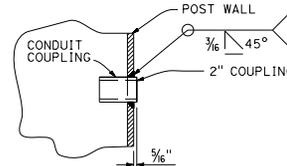
BASE PLATE DETAIL B



DETAIL C



1" COUPLING DETAIL D



2" COUPLING DETAIL E

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
Stanley P. Johnson
No. C6793
Exp. 3-31-18
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE
July 15, 2016

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- All steel shall be galvanized after fabrication.
- The foundation shall be treated as level ground condition if the slope inclination is flatter than 4 : 1 (Horizontal : Vertical)
- For devices mounted and mounting heights, see TABLE B.
- For wind loading see RSP ES-7M.
- Materials (Structural Steel):
 - f_y = 55,000 psi (tapered steel tube)
 - f_y = 50,000 psi (unless otherwise noted)
- Anchor bolts: f_y = 55,000 psi
- Materials (Reinforced Concrete):
 - f'c = 3,600 psi
 - f_y = 60,000 psi
- Verify all controlling field dimension before ordering of fabricating any material.
- When no barriers are used, the NEMA 3R enclosure shall be located on the downstream side and perpendicular to the roadway.
 - 1'-3" (Max) for sloped finished grade.
- Bottom of base plate.
- Handhole. (RSP ES-7M Det B) (RSP ES-7M Det A)
- Top plate. Install a blank flange on the top plate when closed circuit television is not used.
- (RSP ES-7O Elev B)
- U-channel with bracket.
- Use the manufacturer's Effective Projected Area (EPA) for attachments. Assign attachments to nearest level and sum each level, see Table D for limitations.
- See (RSP AT7R1) thru (RSP AT7R8)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(CLOSED CIRCUIT TELEVISION WITH
VEHICLE DETECTION SYSTEM,
30' TO 40' POLE)**

NO SCALE

RSP ES-16D DATED JULY 15, 2016 SUPERSEDES RSP ES-16D DATED OCTOBER 30, 2015 AND RSP ES-16D DATED JULY 19, 2013 AND STANDARD PLAN ES-16D DATED MAY 20, 2011 - PAGE 503 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-16D

2010 REVISED STANDARD PLAN RSP ES-16D