



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

Stanley P. Johnson
REGISTERED CIVIL ENGINEER
No. C67393
Exp. 3-31-18
CIVIL ENGINEER PROFESSIONAL SEAL
STATE OF CALIFORNIA

July 15, 2016
PLANS APPROVAL DATE

NOTE: TO ACCOMPANY PLANS DATED _____
Handhole shall be located on the downstream side of traffic.

E PROJECTED LENGTH	F MIN SPACING	G MOUNTING HEIGHT	H	Min OD AT POLE	THICKNESS	I BOLT CIRCLE	HS CAP SCREWS	J PLATE SIZE	K MAST ARM THICKNESS	POLE R THICKNESS	θ	X Max	
25'-0"	10'-0"	22'-8"±		7 3/8"	0.2391"	12"	1 1/4"-7NC-3"	1'-3"	1/4"	1 1/2"	23°	10'-6"	
30'-0"	12'-0"		8"	13 1/2"		1'-5"		1/2"	1 1/2"	1 3/4"	15°	13'-0"	
35'-0"	14'-0"	23'-0"±	16'-0"	8 1/8"									
40'-0"				9 3/8"									
45'-0"	15'-0"	23'-8"±		10 1/4"									

M PROJECTED LENGTH	N RISE	Min OD AT POLE	THICKNESS	P MOUNTING HEIGHT
6'-0"	2'-0"±	3/4"	0.1196"	30'-0" POLE
8'-0"	2'-6"±	3/2"		35'-0" POLE
10'-0"	3'-3"±	3 3/8"		31'-6"±
12'-0"	4'-3"±	4"		32'-0"±
15'-0"	4'-9"±	4 1/4"		37'-0"±
				32'-9"±
				33'-9"±
				34'-3"±
				36'-6"±
				37'-0"±
				37'-9"±
				38'-9"±
				39'-3"±

POLE TYPE	LOAD CASE	WIND VELOCITY (mph)	POLE DATA						BASE PLATE DATA				LUMINAIRE MAST ARM	SIGNAL MAST ARM	CIDH PILE FOUNDATION		
			A HEIGHT	Min OD		THICKNESS	ALTERNATIVE SECTION			C	BC = BOLT CIRCLE	THICKNESS			ANCHOR BOLT SIZE	Dia	DEPTH
				BASE	TOP		B LENGTH	BOTTOM	TOP								
18-4-100	4	100	17'-0"	13 5/8"	0.2391" OR 0.25"	10'-0"	13 3/8"	11 3/4"	1'-11"	1'-9"	3"	2 1/4"Ø x 42"	NONE	25'-0"	3'-6"	12'-0"	
19-4-100			30'-0"	11 3/4"		15'-0"	13 3/8"	11"					6'-15" 12'-0"	30'-0"			
19A-4-100			35'-0"	11"		15'-0"	13 3/8"	11"					6'-15" 15'-0"	30'-0"			
23-4-100			17'-0"	13 5/8"		0.3125"	10'-0"	15 5/8"					13 3/4"	NONE			35'-0"
24-4-100			30'-0"	11 3/4"			15'-0"	13 3/8"					11"	6'-15" 12'-0"			35'-0"
24A-4-100			35'-0"	11"	15'-0"		13 3/8"	11"	6'-15" 15'-0"	35'-0"							
26-4-100			30'-0"	13 3/4"	0.3125"	10'-0"	15 5/8"	13 3/4"	6'-15" 12'-0"	40'-0"							
26A-4-100			35'-0"	13"		15'-0"	15 5/8"	13"	6'-15" 15'-0"	45'-0"							
27-4-100			17'-0"	15 5/8"		15'-0"	15 5/8"	13"	NONE	NONE							

INDICATES MAST ARM LENGTH TO BE USED UNLESS OTHERWISE NOTED ON PLANS.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD,
CASE 4 SIGNAL MAST ARM LOADING,
WIND VELOCITY=100 MPH AND SIGNAL
MAST ARM LENGTHS 25' TO 45')
RSP ES-7E DATED JULY 15, 2016 SUPERSEDES STANDARD PLAN ES-7F
DATED OCTOBER 30, 2015 - PAGE 461 OF THE STANDARD PLANS BOOK DATED 2015.
REVISED STANDARD PLAN RSP ES-7F

NO SCALE

2015 REVISED STANDARD PLAN RSP ES-7F