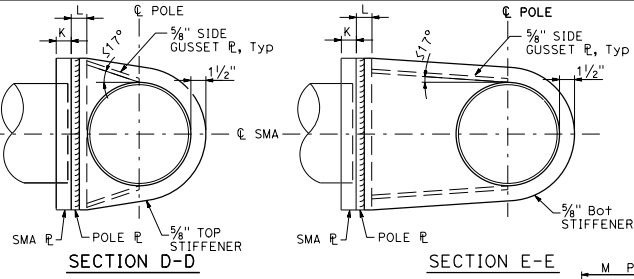


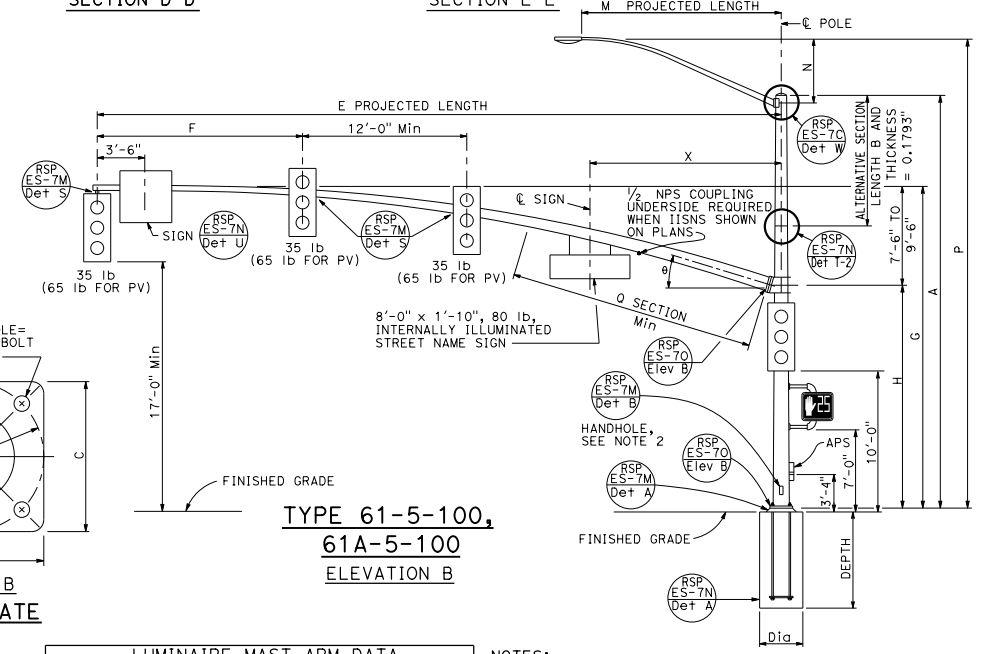
TYPE 60-5-100
ELEVATION A

SIGNAL MAST ARM CONNECTION
DETAIL B



SECTION D-D

SECTION E-E



TYPE 61-5-100,
61A-5-100
ELEVATION B

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	L POLE THICKNESS	Q SECTION LENGTH	X Max
60'-0"	15'-0"	23'-7" TO 25'-7"	16'-0"	1'-1/2"	0.1793" 0.2391"	20"	1 1/2"-6NC-4"	2'-0"	2"	2"	24'-0" 29'-0"	14'-0"

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

- NOTES:**
- The radial separation between the face of the pole and the adjacent insides of the top and bottom gusset plates shall not exceed 3/8". Fillet weld size to be increased by amount of gap.
 - Handhole shall be located on the downstream side of traffic.

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 BASE	Min OD TOP	THICKNESS	ALTERNATIVE SECTION B LENGTH	TOP	C	BC = BOLT CIRCLE			THICKNESS	ANCHOR BOLT SIZE	Di	DEPTH		
60-5-100	5	100	17'-0"	22"	19 3/4"	0.375"				2'-6"	2'-4"			2 1/4"Ø x 42"	NONE	50'-0"	4'-0"	14'-0"
61-5-100			30'-0"	25"	20 3/4"		10'-0"	22 1/8"	20 3/4"	2'-11"	2'-9"	3"		3"Ø x 60"	6'-15"	15'-0"	4'-6"	15'-0"
61A-5-100			35'-0"		20"		15'-0"		20"									

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

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

Stanley P. Johnson
REGISTERED CIVIL ENGINEER
No. 02793
EXPIRES 3-31-18
CIVIL ENGINEER PROFESSIONAL SEAL
STATE OF CALIFORNIA

July 15, 2016
PLANS APPROVAL DATE
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.

TO ACCOMPANY PLANS DATED _____

ELECTRICAL SYSTEMS
(SIGNAL AND LIGHTING STANDARD,
CASE 5 SIGNAL MAST ARM LOADING,
WIND VELOCITY=100 MPH AND SIGNAL
MAST ARM LENGTHS 60' TO 65')

NO SCALE
RSP ES-7H DATED JULY 15, 2016 SUPERSEDES RSP ES-7H DATED OCTOBER 30, 2015 AND RSP ES-7H DATED JULY 19, 2013 AND STANDARD PLAN ES-7H DATED MAY 20, 2011 - PAGE 469 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-7H

2010 REVISED STANDARD PLAN RSP ES-7H