To accompany plans dated _____

Caltrans Metric

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

REGISTERED CIVIL ENGINEER

January 24, 2005
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Tillat Sattar — No. C42892 — Exp. 03-31-06 — CIVIL — STATE OF CALIFORNIA

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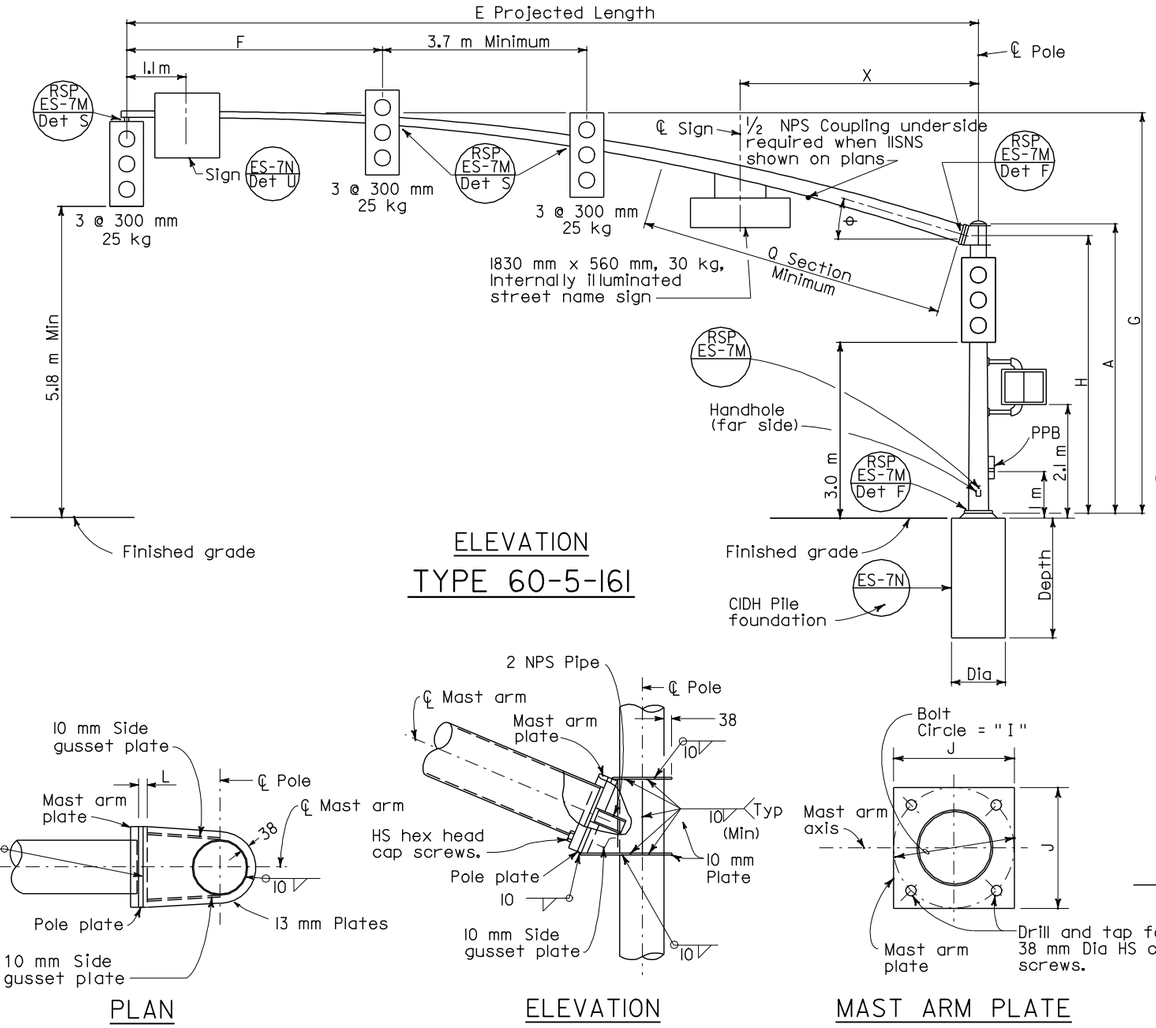


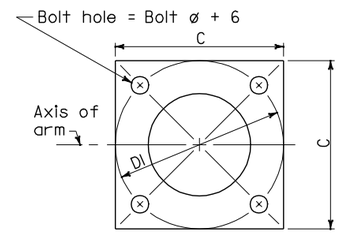
ELEVATION
TYPE 60-5-161

PLAN

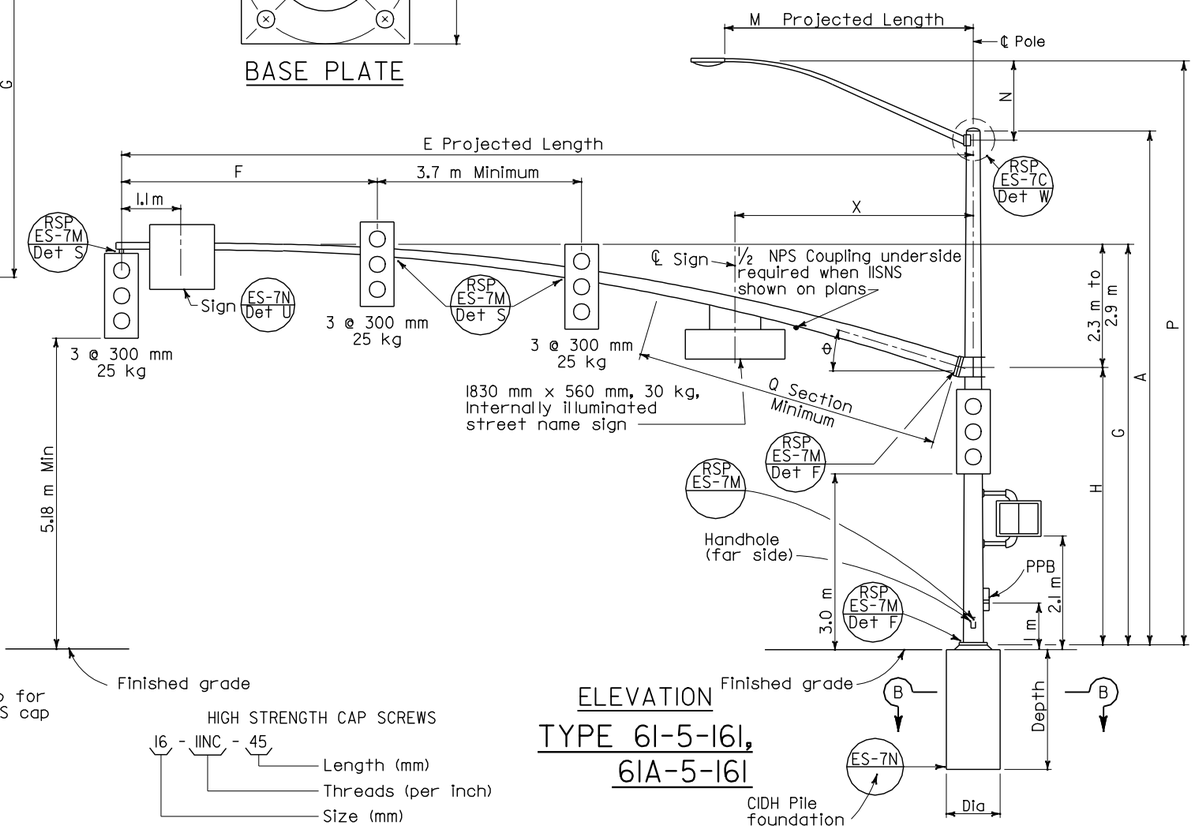
ELEVATION

MAST ARM PLATE

SIGNAL ARM CONNECTION DETAIL



BASE PLATE



ELEVATION
TYPE 61-5-161, 61A-5-161

HIGH STRENGTH CAP SCREWS

16 - IINC - 45
- Length (mm)
- Threads (per inch)
- Size (mm)

NOTE

The radial separation between the face of the pole and the adjacent insides of the top and bottom gusset plates shall not exceed 5 mm. Fillet weld size to be increased by amount of gap.

SIGNAL ARM DATA															
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 Arm ℙ Thickness	L Pole ℙ Thickness	θ	Q SECTION Length	Q SECTION Thickness	X Max
m				mm								m	mm	m
18.2	4.6	7.2 to 7.8	4.9	343	4.6	508	38-6NC-102	508	51	51	15°	7.3	6.1	4.3
19.8				343	6.1							8.8	7.9	

LUMINAIRE ARM DATA					
M Projected Length	N Rise	Min OD at Pole	Thickness	P Mounting Height 9.1 Pole	P Mounting Height 10.7 Pole
m	mm			m	
1.8	610 ±	83	3.04	9.6 ±	11.1 ±
2.4	760 ±	89		9.8 ±	11.3 ±
3.1	990 ±	98		10.0 ±	11.5 ±
3.7	1290 ±			10.3 ±	11.8 ±
4.6	1450 ±	108		10.5 ±	12.0 ±

Pole Type	Load Case	Wind Velocity km/h	POLE DATA A Height	Min OD Base	Min OD Top	Thickness	BASE PLATE DATA C	DI Bolt Circle	Thickness	Anchor Bolts Size	Luminaire Arm	Signal Arm	CIDH PILE FOUNDATION Diameter	Depth	Reinforced
			m	mm			mm				m		mm	m	
60-5-161	5	161	5.2	406	347	7.94	584	584	51	57 ø x 1524 x 152	None	18.2 or 19.8	914	4.9	Yes
61-5-161			9.1		301						1.8-[4.6]				
61A-5-161			10.7		282										

☐ Indicates arm length to be used unless otherwise noted on plans.

ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARDS CASE 5 ARM LOADING WIND VELOCITY=161 km/h ARM LENGTHS 18.2 m TO 19.8 m)

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP ES-7H DATED JANUARY 24, 2005 SUPERSEDES STANDARD PLAN ES-7H DATED JULY 1, 2004-PAGE 458 OF THE STANDARD PLANS BOOK DATED JULY 2004.

REVISED STANDARD PLAN RSP ES-7H

2004 REVISED Std PLAN RSP ES-7H

1-24-05