





- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Mast Arm Length

Less than 30′ (9.1 m)

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5, DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

13'-6" (4,1 m) 11'-0" (3.4 m)

13'~0" (4.0 m) 15'-0" (4.6 m)

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0,6
CONTROLLER CABINET	1 1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
CROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6,0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4,1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, WAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

DEPTH OF FOUNDATION VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0'' (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m

Less than 30' (9.1 m)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m).
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m).
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m).
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m). 21'-0" (6.4 m) 42" (1060mm) 36" (900mm) 8(25) Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) 25'-0" (7.6 m) 42" (1060mm) 36" (900mm) 8(25) NOTES: 1. These foundation depths are for sites which have cohesive soils (clayey sitt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpd). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.

(i) Foundation | Foundation | Depth | Diameter

Quantity of Rebors

12

12

Diameter

30" (750mm)

30" (750mm)

30" (750mm)

30" (750mm) 24" (600mm)

30" (750mm) 24" (600mm)

36" (900mm)

36" (900mm)

Size of Rebors

6(19)

6(19)

7(22) 7(22)

7(22)

- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) digmeter foundations.
- 3. Combination mast arm assembles under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm)
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

	FILE NAME =	USER NAME is kambhophusingan	DESIGNED	DAG	REVISED		Γ
	o:Now_workNPWISCINKARTHAFFINAP8Chd01126	4\traffic.legsnd.v%dgn	DRAWN	BCK	REVISED	-	
		PEST SCREE = 20.04000 17 IN.	CHECKED -	DAD	REVISED	-	
1		PLOT DAKE = 10/6/2009	DATE -	10/28/09	REVISED		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT 1		F.A.U SECTION	COUNTY	TOTAL SHEETS	1 NU. 1
CTANDAG	RD TRAFFIC SIGNAL DESIGN DETAILS	•	198 00-00045-00-PV	LAKE	195	115
STANDARD TRAFFIC STUNAL DESIGN DETAILS			CONTRACT	NO. (3640	
SCALE:	SHEET NO. 5 OF 6 SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS! FED. A	ID PROJECT		