



2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)	65" (SEE NOTE 4) (IG61mm) 49" (SEE NOTE 3) 49" (SEE NOTE 3) 49" (SEE NOTE 3) 49" (SEE NOTE 5) 44" (24mm) 70 (406mm) 71 (25mm) 72 (25mm) 73 (25mm) 74 (25mm) 75 (25mm) 76 (25mm) 77 (25mm) 77 (25mm) 78 (25mm) 78 (25mm) 79 (25mm)
UPS—— CABINET	CONTROLLER CABINET 3/4" (19mm) TREATED PHYWOOD DECK
	TEATER WOOD
NOTES:	6" x 6" (152mm x 152mm) TREATED WOOD POSTS
1 DASED ON CONTROLLED CARINET TV	DE IV WITH PASE DIMENSIONS OF 364 × 444 (CCOmm × 1118mm)

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 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 Lenath

Less than 30' (9.1 m)

Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m) and less than 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)

- 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

 Foundation Depth

10'-0" (3_{*}0 m)

13'-6" (4.1 m)

13'-0" (4.0 m)

15'-0" (4.6 m)

21'-0" (6.4 m)

25'-0" (7.6 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	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND 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, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

DEPTH OF FOUNDATION

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)

Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)

NO	TE	S:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). 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.

Foundation Diameter

30" (750mm)

30" (750mm)

36" (900mm)

36" (900mm)

36" (900mm)

42" (1060mm

42" (1060mm)

Diameter

24" (600mm)

24" (600mm)

30" (750mm)

30" (750mm)

30" (750mm)

36" (900mm)

36" (900mm)

Quantity of Rebars

12

6(19)

6(19)

7(22)

7(22)

7(22)

8(25)

8(25)

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED -	DAG	REVISED -	T
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØ1126_4\traffic_legend_v7.dgn		DRAWN -	BCK	REVISED -]
	PLOT SCALE = 20.00000 '/ IN.	CHECKED	DAD	REVISED -	1
	PLOT DATE = 10/6/2009	DATE -	10/28/09	REVISED -	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	CTANDADD TRAFFIC CICNAL DECICAL DETAILS		F.A.P RTE. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
			2736	09-00169	9-00-TL	LAKE	35	28		
	STANDARD TRAFFIC STONAL DESIGN DETAILS					CONTRACT	NO.	63592		
	SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. AL	D PROJECT		