



(1651mm)
49" (SEE NOTE 3) -SEE NOTE 5
(406mm) (1118mm)
### #################################
(51mm x 152mm) WOOD FRAMING (TYP.)
WOOD FRAMING (TYP.)
C
→ TRAFFIC SIGNAL
TRAFFIC SIGNAL
' II CONTROLLER CABINET
CONTROLLER CABINET
UPS-
CONTROLLER CABINET
UPS——— CABINET
UPS
CABINET  UPS  CABINET
CABINET  UPS  CABINET
CABINET  UPS  CABINET
CABINET  WA'' (19mm) TREATED PHYWOOD DECK  2" X 6" (51mm x 152mm) TREATED WOOD
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CABINET  UPS  CABINET
CABINET  Y4" (19mm) TREATED PHYWOOD DECK  2" x 6" (51mm x 152mm) TREATED WOOD
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CABINET  VA" (19mm) TREATED PHYWOOD DECK  2" x 6" (51mm x 152mm) TREATED WOOD  NOTES:  6" x 6" (152mm x 152mm)
CABINET  WA'' (19mm) TREATED PHYWOOD DECK  2" X 6" (51mm X 152mm) TREATED WOOD  NIW 152mm) TREATED WOOD

65" (SEE NOTE 4) (1651mm)

- 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.
- 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

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				
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				
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP				
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

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)

## DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30′ (9.1 m) and less than 40′ (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'~0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
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)	16	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)	16	8(25)

## NOTES:

- 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.
- 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) diameter foundations.
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

## DEPTH OF MAST ARM FOUNDATIONS, TYPE E

- 1										
	FILE NAME =	USER NAME = bauerdl	DESIGNED - DAG	REVISED -			DISTRICT ONE	F.A.P.	SECTION	COUNTY TOTAL SHEET
	c:\pw_work\PW[DOT\BAUERDL\dØ108315\ts05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			347	09-00248-00-RS	SHEETS NO.
		PLOT SCALE = 50.0000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT NO
		PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS STA. TO STA.	FED. ROAD	DIST, NO. 1 ILLINOIS FED.	AID PROJECT

FOUNDATION