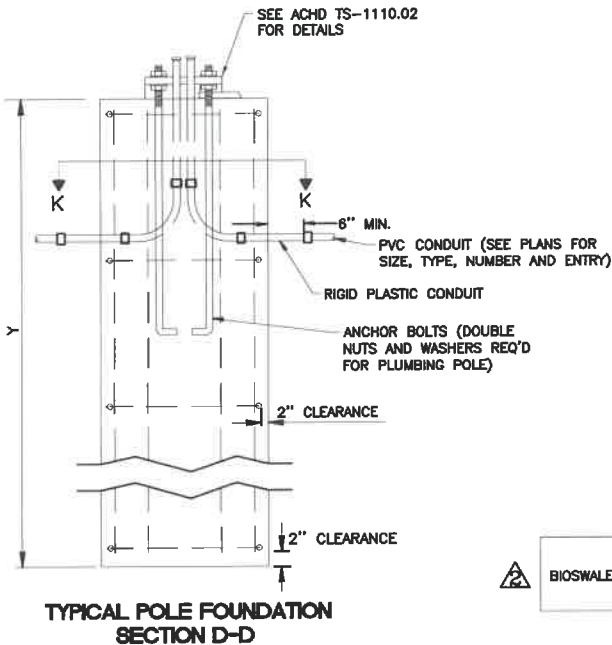


BIOSWALE SECTION

ALTERNATE SLOPED GRADE SECTION



POLE TYPE	MT. HT.	MASTARM LENGTH	FOUNDATION TYPE	X	Y	HOOPS		VERTICAL RODS		CU. YDS. CONCRETE		
						NO.	SIZE	NO.	SIZE			
						NO.	SIZE	NO.	SIZE			
PEDESTRIAN SIGNAL POLE	12'	-	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6
LIGHT/DETECTOR POLE	30'	ALL	A	2'-0"	5'-0"	4	#4	23'-0"	6	#4	28'-0"	0.6
LIGHT POLE	35'	ALL	B	2'-6"	7'-0"	4	#4	29'-4"	6	#6	40'-0"	1.3
LIGHT POLE	40'-50'	ALL	C	3'-0"	8'-0"	5	#4	44'-2"	8	#6	61'-4"	2.1
SIGNAL POLE	-	20' - 45'	D	3'-0"	9'-0"	5	#4	44'-2"	8	#6	69'-4"	2.4
PED. PUSHBUTTON POLE	4' 10"	-	E	2'-0"	2'-6"	-	-	-	-	-	-	0.3
DUAL MASTARM SIGNAL POLE	-	SEE NOTE 4	F/G	-	-	-	-	-	-	-	-	-
TYPE X SIGNAL POLE	-	50' - 55'	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
TYPE XI SIGNAL POLE	-	60' - 65'	G	3'-6"	14'-0"	9	#5	78'-10"	12	#6	166'	5.0
CCTV POLE	50'	-	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1
CCTV POLE	55'	-	F	3'-0"	12'-0"	8	#5	70'-8"	12	#6	140'	3.1

BIOSWALE	POLE TYPE	MT. HT.	MASTARM LENGTH	FOUNDATION TYPE	X	Y	Z	HOOPS		VERTICAL RODS		CU. YDS. CONCRETE		
								NO.	SIZE	NO.	SIZE			
								NO.	SIZE	NO.	SIZE			
	LIGHT/DETECTOR POLE	30'	ALL	H	2'-0"	7'-6"	5'-6"	7	#4	40'-3"	6	#4	43'-0"	1.6
	LIGHT POLE	35'	ALL	J	2'-6"	7'-3"	5'-3"	7	#4	51'-4"	6	#6	41'-6"	1.3
	LIGHT POLE	40'-50'	ALL	K	3'-0"	9'-4"	7'-4"	9	#4	79'-6"	8	#6	72'-0"	2.4

**NOTES:**

- THE FOUNDATIONS SHALL BE LOCATED AS INDICATED ON THE PROJECT PLAN SHEETS. FOUNDATION LOCATIONS SHALL BE FIELD VERIFIED BY ACHD PRIOR TO FOUNDATION INSTALLATION.
- ALL CONDUIT ELBOWS USED IN CONCRETE BASES SHALL BE RPC.
- SPARE STUBOUTS SHALL BE TERMINATED WITH A COUPLING AND PLASTIC PUSH PLUG AT BOTH ENDS.
- A TYPE X SIGNAL POLE CAN CARRY UP TO:
  - DUAL 45' MAST ARMS
  - A 50' MAST ARM AND UP TO A 40' MAST ARM
  - A 55' MAST ARM AND UP TO A 30' MAST ARM

A TYPE XI SIGNAL POLE CAN CARRY UP TO:

- A 60' MAST ARM AND UP TO A 55' MAST ARM
- A 65' MAST ARM AND UP TO A 40' MAST ARM

5. UNIT STRESSES:

CONCRETE:  $f'_c = 4000$  PSI;  $f_c = 1600$  PSI  
 METAL REINFORCEMENT: AASHTO M31, GRADE 60;  $f_y = 60,000$  PSI

6. NATIVE SOIL PARAMETERS:

ALLOWABLE BEARING PRESSURE = 2000 PSF  
 ALLOWABLE LATERAL BEARING PRESSURE = 300 PSF  
 FRICTION ANGLE = 30'

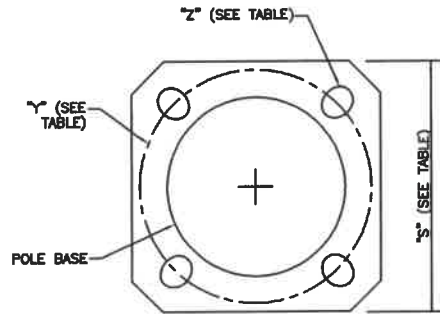
NO.	DATE	BY	DESCRIPTION
10/18	2011	285	Added foundation details for bioswale placement.
11/11	2011	285	Changed sheet. Added note.



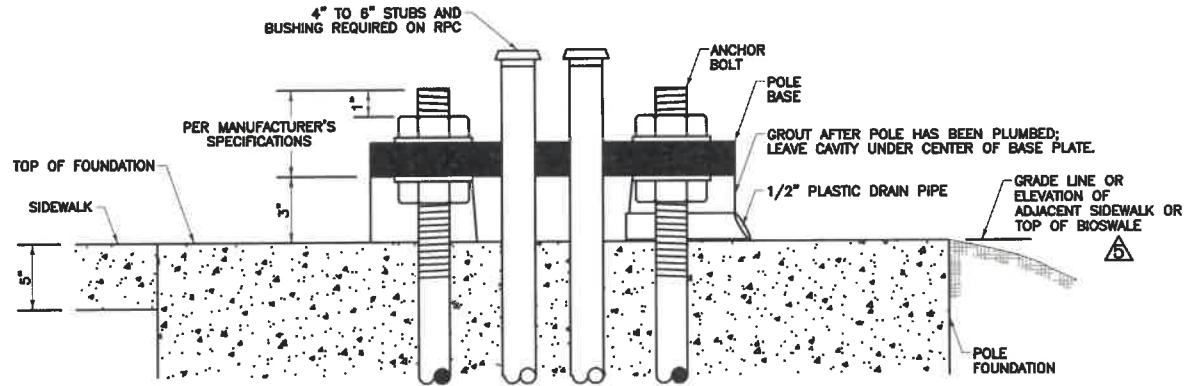
SIGNATURES		SHEET TITLE	
Scale: NTD	Drawn By: Joshua Steak	Standard Signal and CCTV Pole Foundation Detail	
Date: 4/16/07	Design By: Joshua Steak		
File: 10-1110.01.DWG	Approved By: Ben Larsen		

10/1/2018

STANDARD DETAIL NO. TS-1110.01  
 Sheet 1 of 2

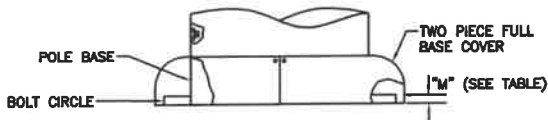


▲ TYPICAL SIGNAL POLE BASE AND FOUNDATION BOLT DETAIL - PLAN VIEW

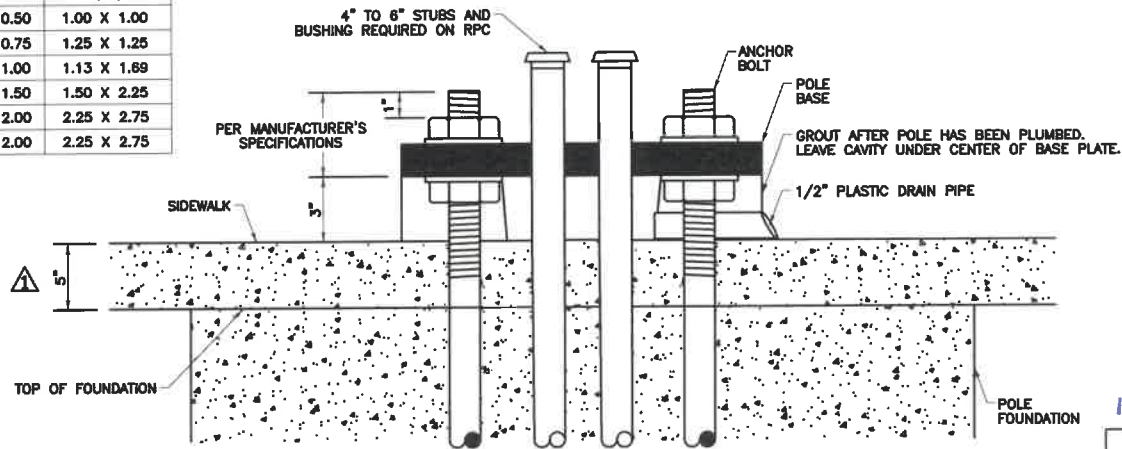


TYPICAL SIGNAL POLE BASE AND FOUNDATION BOLT DETAIL  
(USED FOR SIGNAL FOUNDATIONS NOT PLACED IN SIDEWALK OR ADJACENT TO SIDEWALK)

POLE DATA					
POLE TYPE	MASTARM LENGTH	POLE BASE			
		SQUARE "S" (IN.)	BOLT CIRCLE "Y" (IN.)	THK. "M" (IN.)	HOLE / SLOT "Z" (IN.)
PED PUSHBUTTON POLE	-	12.00	8.50	0.50	1.00 X 1.00
PEDESTRIAN SIGNAL POLE	-	13.88	12.75	0.75	1.25 X 1.25
LUMINAIRE POLE, STANDARD	ALL	13.88	12.75	1.00	1.13 X 1.69
LUMINAIRE POLE, DAVIT STYLE	ALL	13.50	12.50	1.50	1.50 X 2.25
TYPE X SIGNAL POLE	20' - 55'	19.00	18.00	2.00	2.25 X 2.75
TYPE XI SIGNAL POLE	60' - 65'	22.00	21.00	2.00	2.25 X 2.75



▲ TYPICAL SIGNAL POLE BASE AND FOUNDATION BOLT DETAIL - PROFILE VIEW



TYPICAL SIGNAL POLE BASE AND FOUNDATION BOLT DETAIL  
(USED FOR SIGNAL FOUNDATIONS PLACED IN SIDEWALK)

NO.	DATE	BY	DESCRIPTION
▲	10/18	JSS	Added alternate note
▲	05/17	JSS	Modified signal pole base detail
▲	05/14	JSS	Modified pole data table
▲	09/11	JSS	Added pole base detail and schedule
▲	04/10	JSS	Increased alternate thickness



- SIGNATURES -		- SHEET TITLE -	
Drawn By: Jackson Beach	Checked By: Jackson Beach	Standard Signal Pole Foundation Detail	
Design By: Jackson Beach	Approved By: Sam Lorenson		

10/1/2018



STANDARD DETAIL NO. TS-1110.02