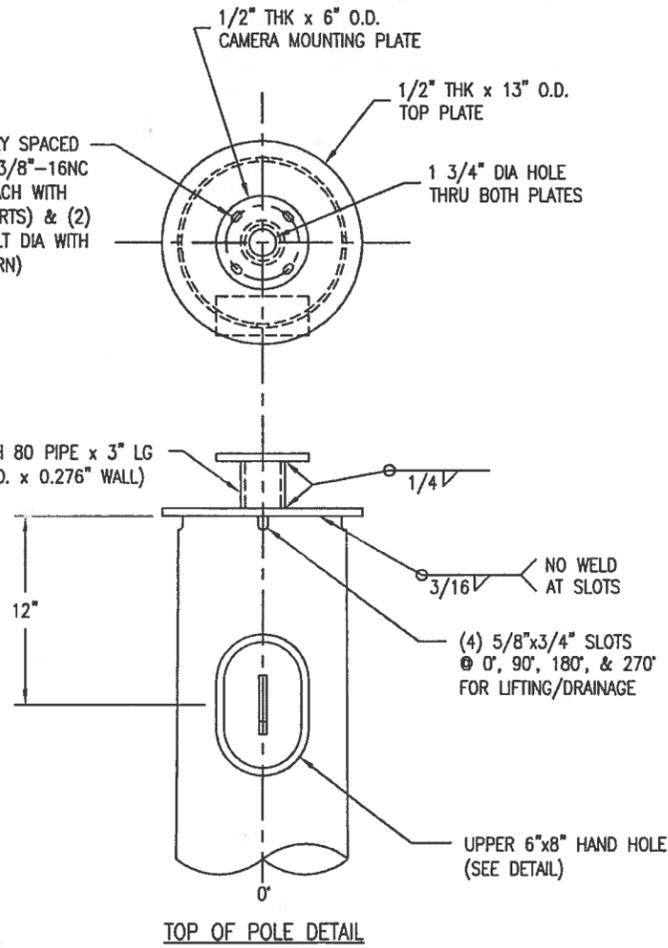


QTY	UMC DESIGN NUMBER	OAL HEIGHT	POLE TUBE SIZE	POLE BASE CONNECTION DATA						
				B.C.	S	F	P	T	H	ANCHOR BOLT SIZE
	P33-B318-Y1	20'-0"	7E-12.00x9.20x20'-0"	25 1/2	25	18	5 1/4	1 1/4	1 3/8	1 1/4" x 52"
	P33-B318-Y4	25'-0"	7E-13.00x9.50x25'-0"							
	P33-B318-Y5	30'-0"	7E-13.50x9.30x30'-0"							
	P33-B318-Y6	35'-0"	7E-14.00x9.10x35'-0"							
	P33-B318-Y2	40'-0"	7E-16.25x10.65x40'-0"							
	P33-B318-Y7	45'-0"	0.188-18.51x12.11x45'-0"-18 [0.188-18.25x11.95x45'-0"-18]							
	P33-B318-Y3	50'-0"	0.250-19.52x12.42x50'-0"-18 [0.250-19.25x12.25x50'-0"-18]							

NOTE: CASE 1 POLES ARE GROUND MOUNT OR 30 FT. ELEVATED BRIDGE MOUNT ELBOW.

- 7 GA = 0.179" WALL THICKNESS
 - 3 GA = 0.250" WALL THICKNESS
 - 0.188 = 0.188" WALL THICKNESS
 - 0.250 = 0.250" WALL THICKNESS
 - E = ROUND STEEL TUBE TAPERED @ 0.14 in/ft
 - 18 = 18-SIDED STEEL TUBE TAPERED @ 0.14 in/ft
- DIMENSIONS GIVEN (ACROSS CORNERS) & [ACROSS FLATS]

(4) 7/16" x 3/4" SLOTS EQUALLY SPACED ON A 4 3/4" DIA B.C. FOR (4) 3/8"-16NC x 1 3/4" LG S.S. HEX BOLTS EACH WITH (1) LOCK NUT (WITH NYLON INSERTS) & (2) FLAT WASHERS (FIELD VERIFY BOLT DIA WITH BASE OF CAMERA & HOLE PATTERN)

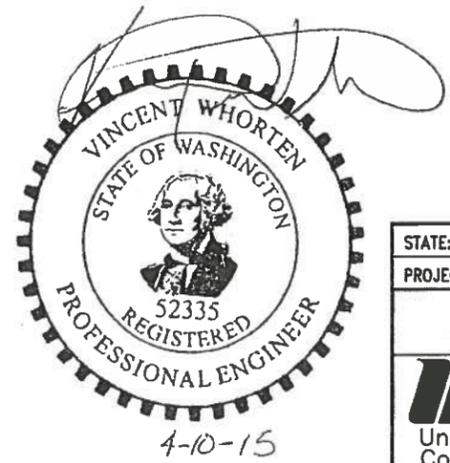


NOTE: CONTRACTOR TO VERIFY TOP PLATE, CAMERA MOUNTING PLATE, BOLT CIRCLE, AND BOLT HOLES ARE ADEQUATE FOR THE REQUIRED CAMERA BEFORE RELEASING FOR MANUFACTURING.

DESIGN CRITERIA:

- DESIGNED IN ACCORDANCE WITH 2009 AASHTO, 5TH EDITION, "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 90 M.P.H. WIND ZONE. THE DESIGN PARAMETERS INCLUDE:
 - 50 YEAR STRUCTURE DESIGN LIFE / RECURRENCE INTERVAL
 - FATIGUE CATEGORY I CONSIDERATION FOR: NATURAL WIND GUST
 - POLE DEFLECTION SHALL NEITHER EXCEED 0.7" IN 30 M.P.H WIND NOR 1.4" IN 70 M.P.H. WIND
 - LOAD CASE #1:(1) CAMERA = 4 sq ft @ 2'-0" ABOVE TOP OF POLE
 - (2) DISH = 12" DIA @ POLE TOP
- ANCHOR BOLT PROJECTION FROM TOP OF FOUNDATION TO BOTTOM OF BASE PLATE MUST NOT EXCEED ONE NUT HEIGHT PLUS ONE INCH.
- CUSTOMER TO CONFIRM ALL DIMENSIONS & ORIENTATIONS BEFORE RELEASING ORDER FOR MANUFACTURING.

APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 4-15-2015



MATERIAL SPECIFICATIONS	
ROUND TAPERED TUBE	ASTM A595 GR A
18 SIDED TAPERED TUBE	ASTM A572 GR 50 MIN
PLATE	ASTM A36
BAR HAND HOLE FRAME	ASTM A529 GR 50 or ASTM A572 GR 50 or ASTM A709 GR 50
HAND HOLE COVER	ASTM A36 or A1011
ANCHOR BOLTS	ASTM F1554 GR 105
ANCHOR BOLT NUTS	ASTM A563 GR DH
FLAT WASHERS	ASTM F436
PIPE	ASTM A53 GR B, A500 GR B, or A500 GR C
S.S. HARDWARE	AISI-300 SERIES (18-8)
STRUCTURE FINISH	PER SALES ORDER
HARDWARE FINISH	HD GALV TO ASTM A153

REV	DESCRIPTION	DATE	REV BY	CHK BY
R11.2	** NO STRUCTURAL CHANGES ** ADDED USAGE NOTE	4/10/15	VPW	VPW
R11.1	ADDED A500 GR C PIPE TO MATERIAL SPECS, REMOVED A501 GR A FROM MATERIAL SPECS, REMOVED PREFERRED NOTE FROM A529 GR 50 HHF IN MATERIAL SPECS, ADDED A1011 TO HHF COVER MATERIAL SPECS.	8/21/12	FJP	SAD
R11	ADDED A500 GR B PIPE TO MATERIAL SPEC'S	9/30/11	EGB	BJR

STATE: WASHINGTON REQ# / SO#: DWA-26948-1

PROJECT NAME: WSDOT CAMERA POLES

ROUND TAPERED STEEL CAMERA POLES - LOAD CASE #1
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DESIGNED BY: LRR CHECKED BY: SAD DATE: 1/8/09 SCALE: NTS ENG REF: P33-B317

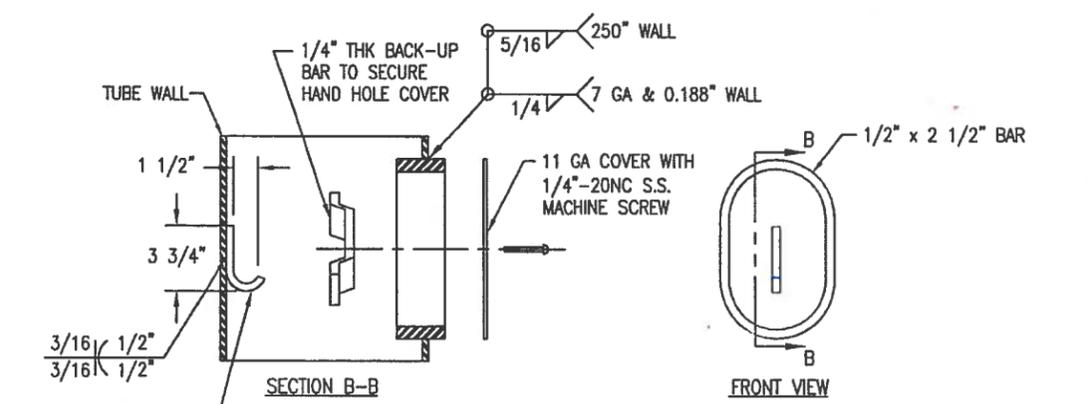
REVISION: **R11.2** SHEET: 1 OF 2

Union Metal Corporation

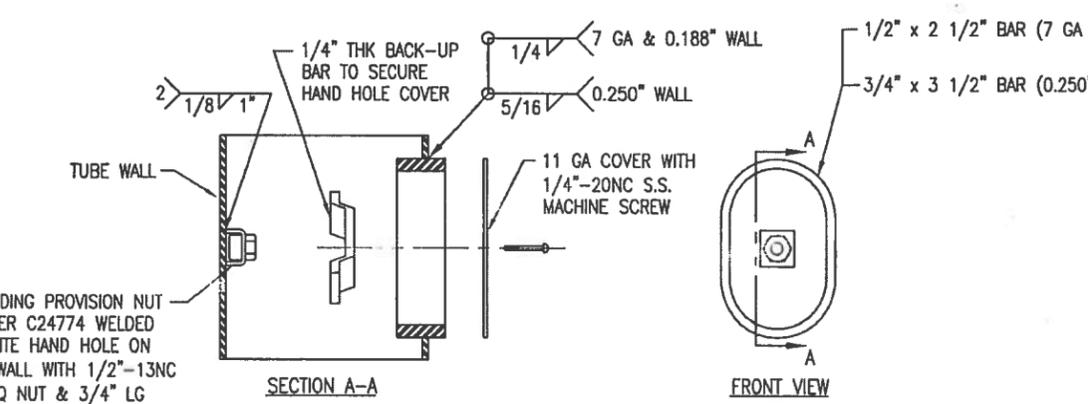
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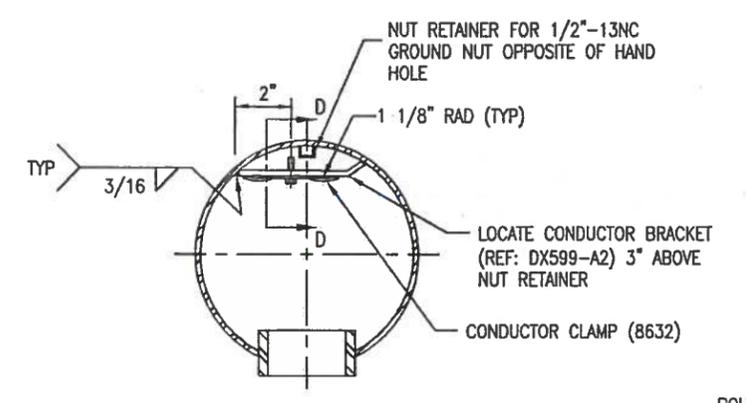
A B C D E F G H



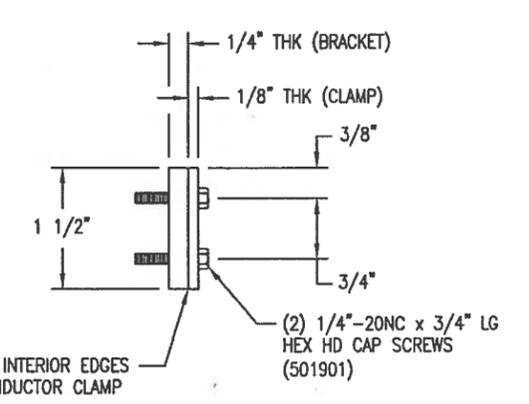
UPPER 6"x8" HAND HOLE FRAMES DETAIL



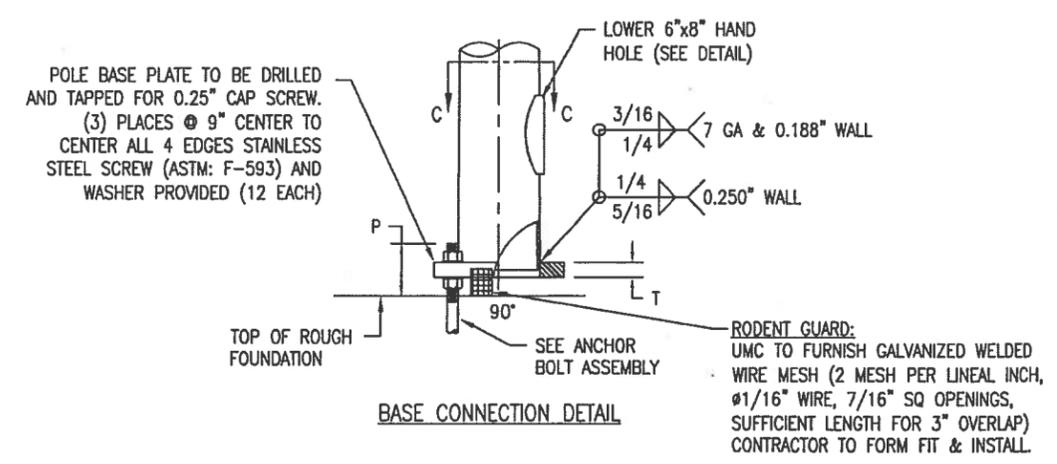
LOWER 6"x8" HAND HOLE FRAME DETAIL



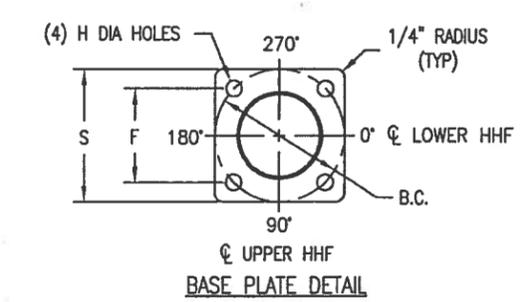
SECTION C-C
CONDUCTOR ATTACHMENT DETAIL



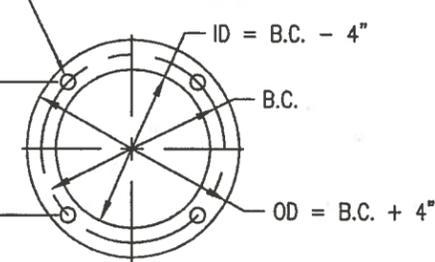
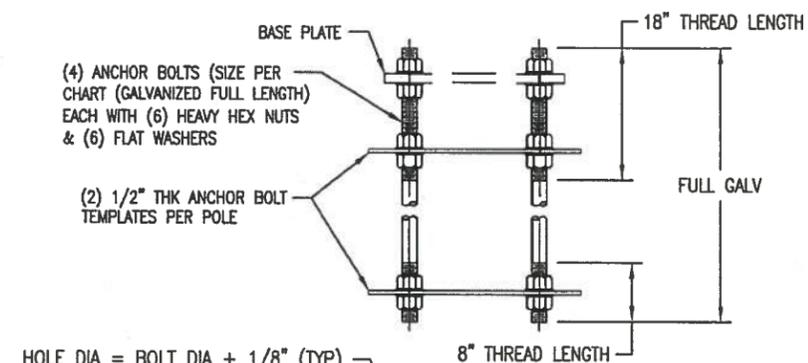
SECTION D-D



BASE CONNECTION DETAIL

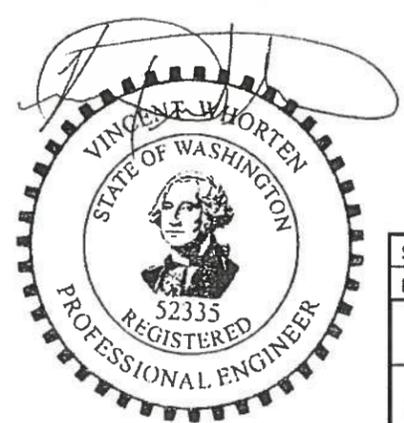


BASE PLATE DETAIL



ANCHOR BOLT ASSEMBLY
(SHIPPED UNASSEMBLED)
(REF: B100-A386)

APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 4-15-2015



4-10-15

STATE: WASHINGTON	REQ# / SO# : DWA-26948-1	REV	DESCRIPTION	DATE	REV BY/CHK BY
PROJECT NAME: WSDOT CAMERA POLES			REVISIONS		
ROUND TAPERED STEEL CAMERA POLES - LOAD CASE #1 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION					
	DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF
	LRR	JAD	1/8/09	NTS	P33-B317
P33-B318			REVISION	SHEET	
			R11.2	2 OF 2	

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