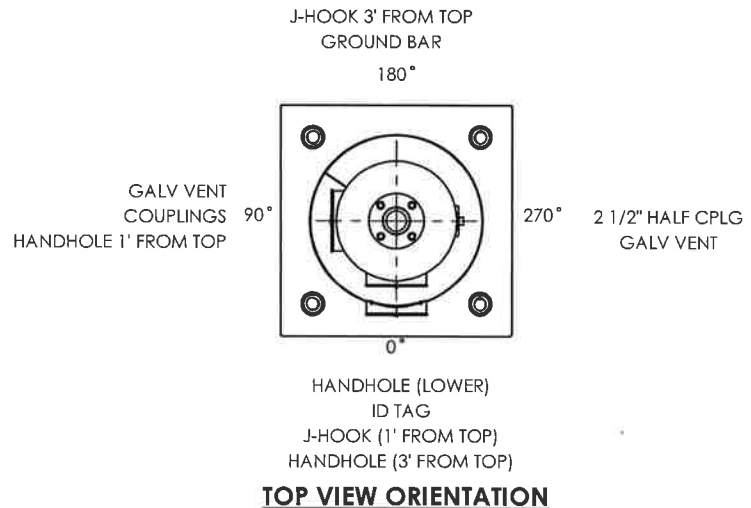
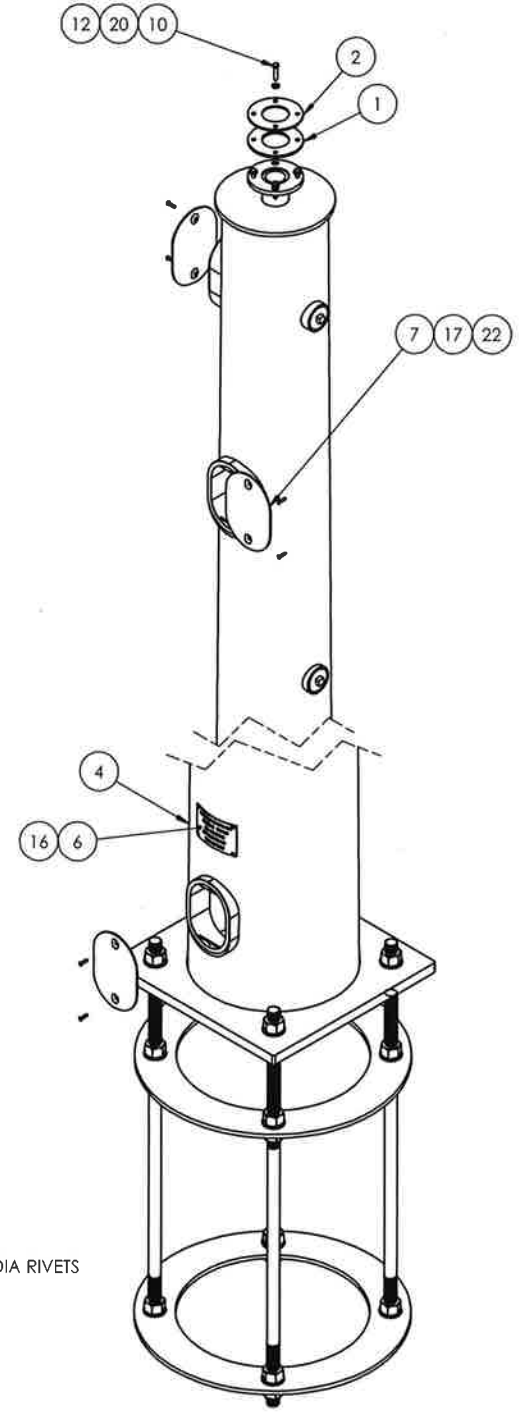
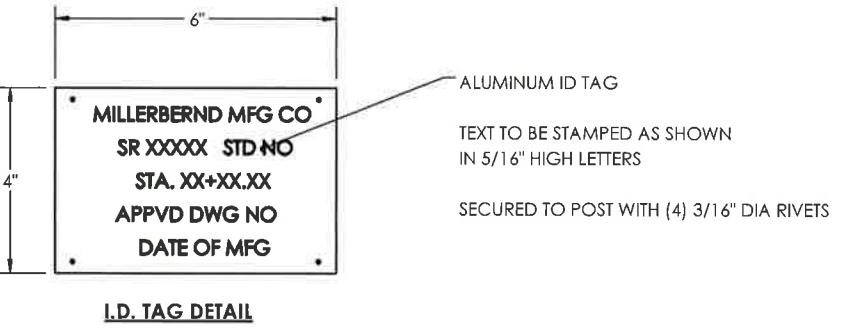


POLE DATA - LOAD CASE #2 - GROUND MOUNT												
POLE HEIGHT (FT)	MMC #	QTY	POLE TUBE				BASE DETAIL				ANCHOR BOLT	
			THICK (IN) "A"	BASE O.D. (IN) "B"	TOP O.D. (IN) "C"	LENGTH (FT) "D"	SQUARE "S" (IN)	BOLT CIRCLE "F" (IN)	THICKNESS "G" (IN)	HOLE/SLOT "H" (IN)	ANCHOR BOLT DIA (IN)	LENGTH (IN)
15	WA-LC2-CAM15		3/16	11	8.9	15	25	25 1/2	1 1/4	1 3/8	1 1/4	52
20	WA-LC2-CAM20		3/16	11.8	9	20						
30	WA-LC2-CAM30		3/16	13.2	9	30						
40	WA-LC2-CAM40		1/4	15.5	9.9	40						
50	WA-LC2-CAM50		5/16	18.5	11.5	50						



"A" x "B" x "C" x "D"
POLE SHAFT



LOAD CASE #2 LOADING:
 (1) CAMERA - 4.0 SQ FT @ 2'-0" ABOVE POLE TOP
 (2) CAMERA - 0.54 SQ FT @ 1'-0" & 2'-0" FROM POLE TOP
 (2) NEMA CABINETS INSTALLED BACK TO BACK
 - 1.33 SQ FT @ 3'-8" FROM POLE TOP
 (2) RADIO EQUIPMENT - 2.25 SQ FT @ 2'-0" & 9'-0" FROM POLE TOP

MAXIMUM DEFLECTION SHALL NOT EXCEED
 0.7" IN 30 MPH WIND,
 OR 1.4" IN 70 MPH WIND

APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 9-14-2020



8-18-20 (EXPIRES 12-18-21)

NOTE: FOR NOTE AT WELD SYMBOL TAIL, SEE WELDING PROCEDURE SPECIFICATION

MATERIAL SPECIFICATIONS
POST: ASTM A572 GR55 BASE PLATE: ASTM A36 MAST ARM: ASTM A572 GR55 MOUNTING PLATE: ASTM A36 HARDWARE FINISH: ASTM F2329 CONNECTION BOLTS: ASTM A1554 GR105 CONNECTION NUTS: CONNECTION WASHERS: ANCHOR BOLTS: ANCHOR BOLT NUTS: ASTM A563 GR DH ANCHOR BOLT WASHER: ASTM F436 WELDING ELBOW: N/A PIPE: ASTM A53 GR B OR ASTM A500 GR B

DESIGN CRITERIA
2015 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS ON HIGHWAY SIGNS, LUMINAIRES & TRAFFIC SIGNALS INCLUDING LATEST INTERIMS. WINDS: 115 MPH WITH A MEAN RECURRENCE INTERVAL OF 1700 YEARS VORTEX SHED: N/A FATIGUE CAT: N/A NATURAL WIND GUST: N/A LUMINAIRE: N/A LUMINAIRE WEIGHT: N/A SIGN: N/A SIGN WEIGHT: N/A

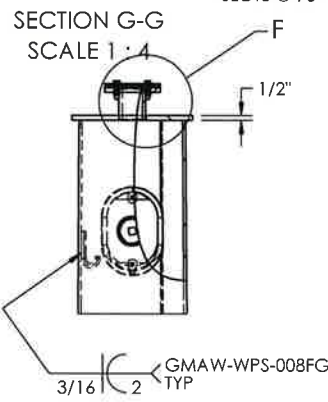
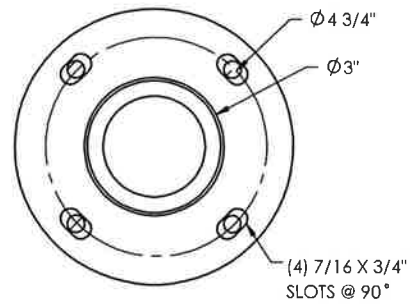
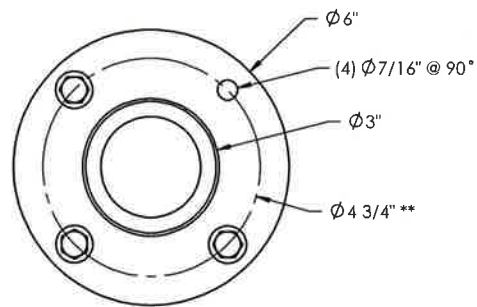
WELD SPECIFICATION
THE POST AND MAST ARM TO BE ROUND TAPERED TUBE FABRICATION WITH ONE SUBMERGED ARC LONGITUDINAL SEAM WELD WITH 100% PENETRATION 6" FROM BASE PLATE, FLANGE AND BUTT WELDED SHAFTS, EXCEPT FOR TUBES LESS THAN 5 IN DIAMETERS; FOR FEMALE SECTION OF SLIP JOINTED TUBES 10" AND GREATER: 1.5 X FEMALE SECTION INSIDE DIAMETER + 6 INCHES. FOR FEMALE SECTION OF SLIP JOINTED TUBES LESS THAN 10" FEMALE SECTION NOMINAL DIAMETER AND 60% FOR REMAINDER. GAS METAL ARC WELDING PROCESS WITH 60% PENETRATION MAY BE USED FOR REMAINDER OF WELDED FABRICATION. WELD TESTING: 100% OF ALL WELDS VISUAL TESTED (VT), 100% OF ALL COMPLETE JOINT PENETRATION (CJP) WELDS ULTRASONIC TESTED (UT) BASED ON THE THINNEST MATING MATERIAL: (PER AASHTO 2013 5.15.5-WELD INSP) THICKNESS. < 6MM (0.25 IN) MT ≥ 6MM (0.25 IN) UT A RANDOM 30% OF ALL FILLET WELDS AND PARTIAL JOINT PENETRATION (PJP) LONGITUDINAL SEAM WELDS MAGNETIC PARTICLE TESTED (MT). WELDING INSPECTION OF STRUCTURE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF TRANSPORTATIONS STANDARD SPECIFICATION SECTION 6-03.3(25) AND 2015 AASHTO WELD INSPECTION SECTION 14.4.4.8

ITEM NO.	DESCRIPTION	QTY PER	ASSY	FINISH
1	NEOPRENE GASKET CAMERA PLATE ASSY	1		
2	CAMERA PLATE ASSY TOP	1		X
3	BASE RD 0.5 x 30"	2		X
4	WLDMT POLE CAMERA "A" X "B" X "C" X "D"	1		X
5	GROUND MTG PLATE	1	X	X
6	I.D. TAG - WA	1	X	
7	COVER HH M34M 5x8 2 BOLT	3		X
8	BOLT HX HD 1-2-13NC X 1" F593C SS	1		
9	BOLT HX HD 1/4-20NC X 1/2 F593C SS	2	X	
10	BOLT HX HD 3-8-16NC X 1-3-4 F593C SS	4		
11	NUT HVY HX 1-1-4-7NC A563 GV(DH)	24		
12	NUT HX NYLON INSERT LOCK 3-8-16 SS	4		
13	NUT SQ 1-2-13 SS	1		
14	PLUG-THD-PL-2 PVC	2	X	
15	PLUG-THD-PL-2-1-2 PVC	3	X	
16	RIVET POP 3/16X1/2X3/8 HD SS	4	X	
17	SCRW HX SK BT HD 1-4-20NC X 1 SS	6		
18	WASHER FLAT 1-1/4 GV	24		
19	WASH F.56 IDX1.375ODX.091 THK BRASS COMM. BRASS	2	X	
20	WASHER FLAT 3/8 SS 7/8 OD	4		
21	ANCHOR BOLT 1 1/4-7X52" LG	4		
22	GASKET HH M34	3	X	

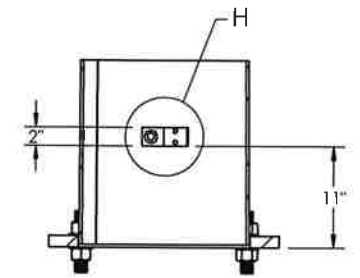
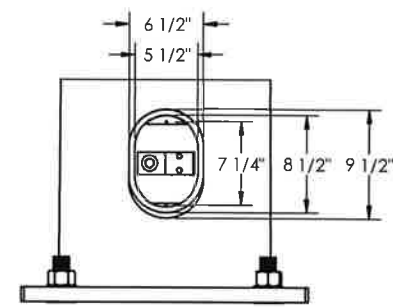
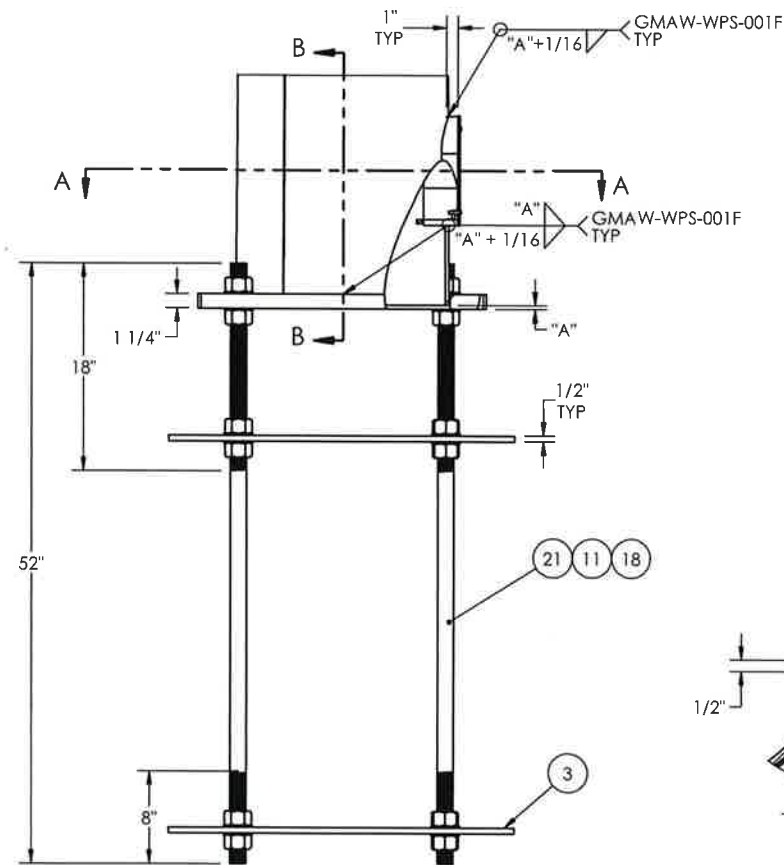
STRUCTURE FINISH SPECIFICATION			
GALV. OR PRIME COAT:	HOT DIPPED GALV. PER ASTM A123		
FINISH COAT:	-		
COLOR:	-		
FEDERAL OR RAL SPEC.:	-		
WEIGHT W/GALV.:	-		
WEIGHT W/GALV.&PAINT:	-		
SURFACE AREA:	-		
GAL. OF PAINT:	-		

SALES ORDER NO.:	QTY:	STATE:	SHEET
74577	-	WA	1 OF 2
DESCRIPTION: SUB POLE CAMERA RD LC2			
EST. WEIGHT:		DRAWING NO: 74577-WA-LC2	
PROJECT NAME: STATE OF WASHINGTON CAMERA POLES - LOAD CASE #2			
PROJECT LOCATION: WA			
DWN BY: REBEKAH		DATE: 2/2/17	
CHK BY:		DATE:	

REVISIONS			
REV.	DESCRIPTION	DATE	DRFT
H	UPDATED WELD NOTE, UPDATED PER COMMENTS	6/12/2020	RK
G	UPDATED NOTES PER COMMENTS; UPDATED WFS TO MMC STANDARDS	5/8/2020	RK
F	DESIGN CRITERIA, LATEST WAS "2017"	8/8/2017	RK

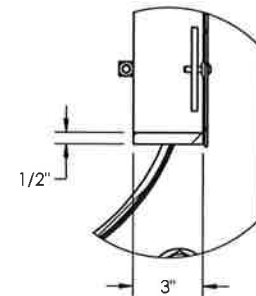


****VERIFY BOLT CIRCLE AND BOLT DIA PRIOR TO FABRICATION****

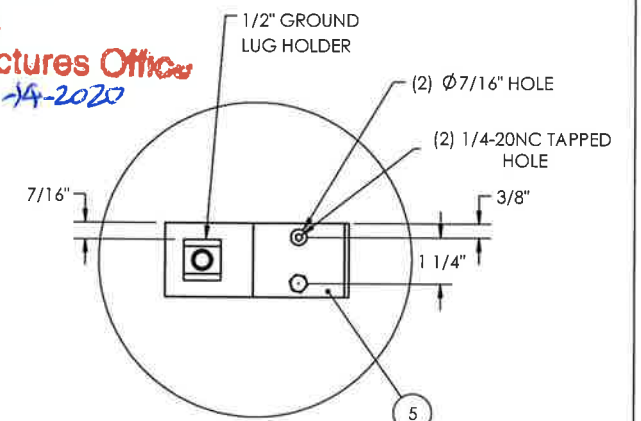


SECTION B-B
SCALE 1 : 20

APPROVED
 Manufacturer's Pole Plan
 Approved For Listing As A
 Pre-Approved Drawing
 WSDOT Bridge & Structures Office
 By GB Date 9-14-2020



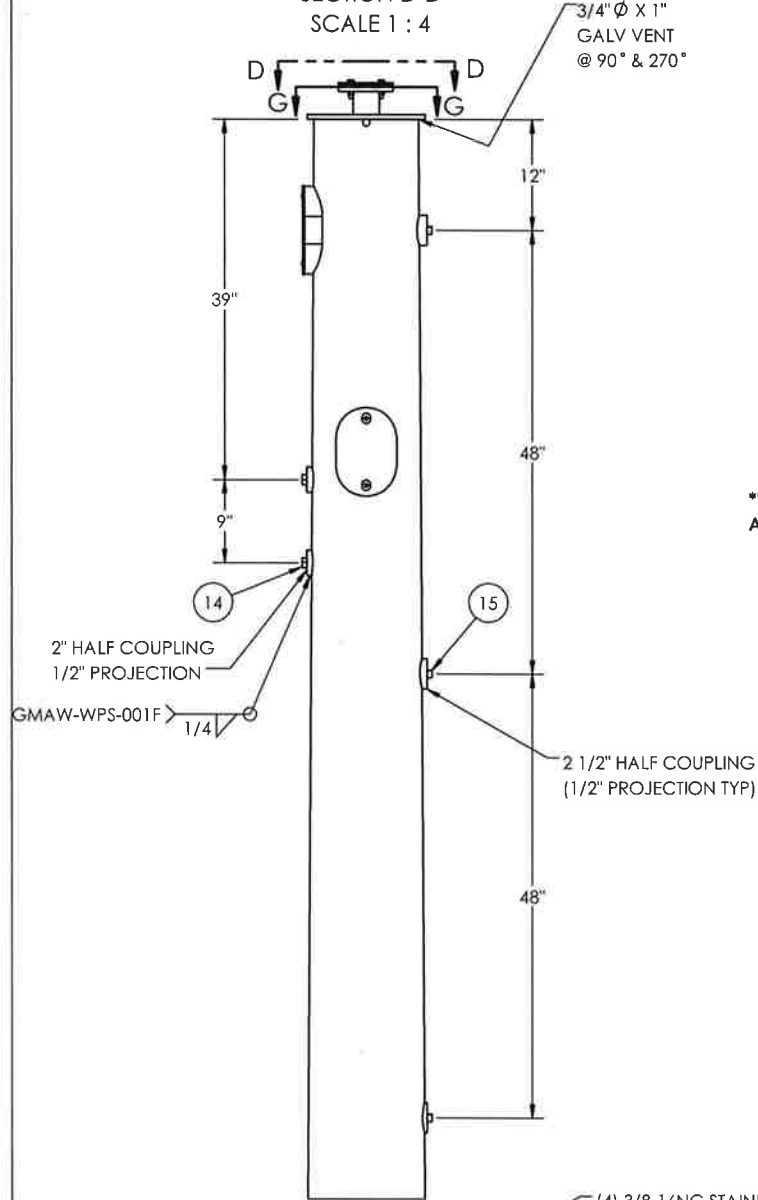
DETAIL AK
SCALE 1 : 8



DETAIL H
SCALE 1 : 5

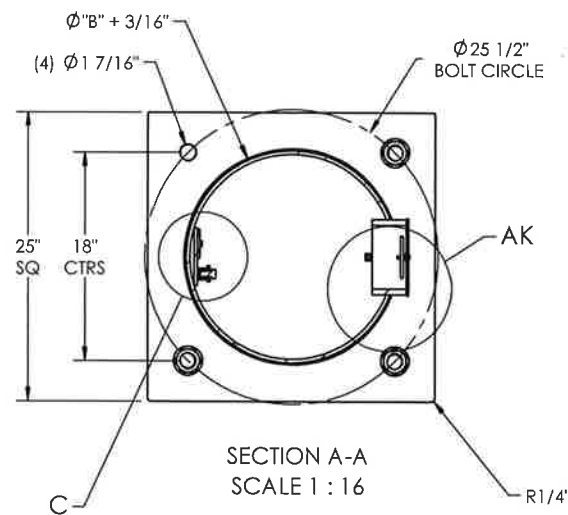


8-18-20 (EXPIRES 12-18-21)

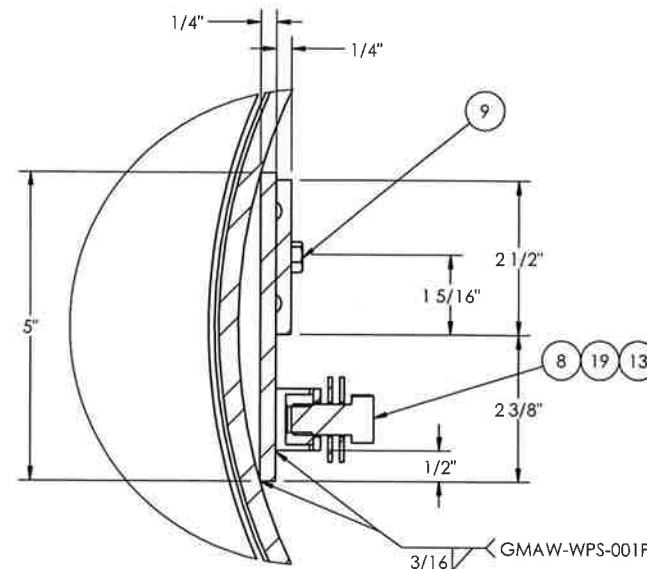


2" HALF COUPLING
1/2" PROJECTION
GMAW-WPS-001F 1/4"

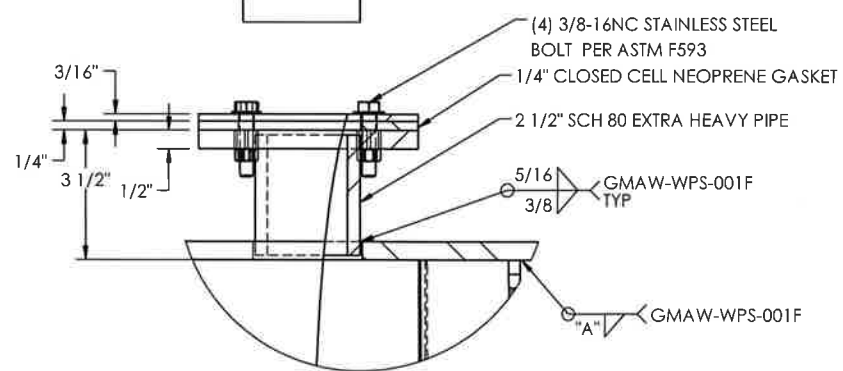
2 1/2" HALF COUPLING
(1/2" PROJECTION TYP)



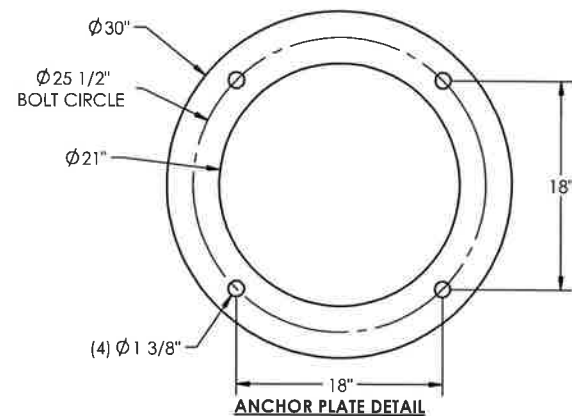
SECTION A-A
SCALE 1 : 16



DETAIL C
SCALE 1 : 3



DETAIL F
SCALE 1 : 5



ANCHOR PLATE DETAIL

MILLERBERND		622 6TH ST. SO. WINSTED, MN 55395	
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SALES ORDER NO.:	QTY:	STATE:	SHEET
74577	-	WA	2 OF 2
DESCRIPTION: SUB POLE CAMERA RD LC2			
EST. WEIGHT:	DRAWING NO: 74577-WA-LC2		
PROJECT NAME: STATE OF WASHINGTON CAMERA POLES - LOAD CASE #2			
PROJECT LOCATION: WA			
PROJECT NO.:	CONTROL/CONTRACT NO.:		
	-		
DWN BY: REBEKAH	DATE: 2/2/17		
CHK BY:	DATE:		