

#### MATERIAL SPECIFICATIONS

POST: ASTM A572 GR55 BASE PLATE: ASTM A36 MAST ARM: ASTM A572 GR55 MOUNTING PLATE: ASTM A36 HARDWARE FINISH: F2329 CONNECTION BOLTS: ASTM F1554 GR105 OR A449 CONNECTION NUTS: ASTM A563 GR DH CONNECTION WASHERS: ASTM F436 ANCHOR BOLT NUTS ANCHOR BOLT WASHER WELDING ELBOW: A234 GR WPB - 35KSI PIPE: ASTM A53 GR B OR ASTM A500 GR B

LUMINAIRE ARM

"F" MTG HT

30'-0"

35'-0"

40'-0"

50'-0"

E" SPAN

6'-0"

8'-0"

10'-0"

12'-0"

6'-0"

8'-0"

10'-0"

12'-0"

6'-0"

8'-0"

10'-0"

12'-0"

6'-0"

8'-0"

10'-0"

12'-0"

BARRIER BACK

SLOPE ANGLE

DESCRIPTION

WLDMNT BRIDGE ELBOW STRAIN O DEG

WLDMT POLE LIGHT "A" x "B" x "C" x "D"

COVER HH M16C 4 1/4X6 3/4 2 BOLT

BOLT HX HD 1-2-13NC X 1" F593C SS

BOLT HX HD 1/4-20NC X 1/2 F593C SS

BOLT HX HD 5-8-11 NC X 7 A307 GV

BOTL HVY HX HD "M" X 8 1/2" A449

NUT HX 5-8-11NC ASTM A563 GR DH

SCRWSLTDRHDMACH 5-16-18NCX1-2 SS

WASH F.56 IDX1.375ODX.091 THK BRASS

SCRW HX SK BT HD 1-4-20NC X 1 SS

RIVET POP 3/16X1/2X3/8 HD SS

WASHER FLAT 5/8 ASTM F436

WASHER WIDE FLAT "M" GV

WASHER LOCK 5/16 SS

NUT HVY HX "M" A563 DH GV

NUT SQ 1-2-13 SS

OMM. BRASS

GASKET HH M16

WLDMT ARM TWIN (SINGLE NOT SHOWN)

WASHER 1/2" RECT

GROUND MTG PLATE

AD FABREEKA 1/4

I.D. TAG - WA

BAND TRI 3/16X4'

LENGTH (F

23'-0"

28'-0"

33'-0"

43'-0"

CONNECTING BOLT "M" (IN)

1 1/8"

WASHING

ASSY

Х

X

FINISH

X

X

ONAL

QTY PER

6

3

2

3

6

1

2

2

2

6

3

X

X

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

#### 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 VORTEX SHED: N/A FATIGUE CAT: N/A GALLOPING: N/A NATURAL WIND GUST: N/A LUMINAIRE: 3.3 SQ FT EPA TRUCK GUST: N/A SIGN: 20 SQ FT @ 7' FROM BASE SIGN WEIGHT: 65 LBS

### 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 TESTÈD (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 AASHTO 2015 WELD INSPECTION SECTION 14.4.4.8

#### STRUCTURE FINISH SPECIFICATION

GALV. OR PRIME COAT: HOT DIPPED GALV. PER ASTM A 123 FINISH COAT: FEDERAL OR RAL SPEC.: WEIGHT WIGALV & PAINT: GAL. OF PAINT

## MILLERBERND

622 6TH ST, SO. WINSTED, MN 55395

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	74515	*	WA	1 OF 3
	DESCRIPTION:			
_	CUR DOLE HOUT DO TYPE 1 FUR OUT			

SUB POLE LIGHT RD TYPE 1 - ELBOW

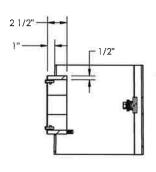
EST. WEIGHT: DRAWING NO: 74515-WA-LP1-ELBOW

PROJECT NAME:

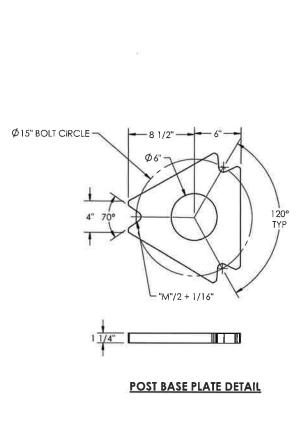
STATE OF WASHINGTON LIGHT POLES TYPE 1

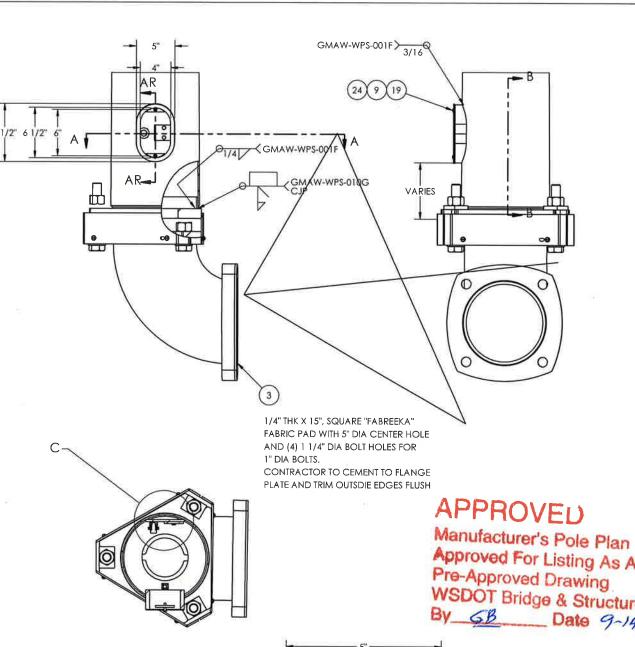
DWN BY: REBEKAH DATE: 2/20/17 CHK BY: DATE:

PROJECT LOCATION:



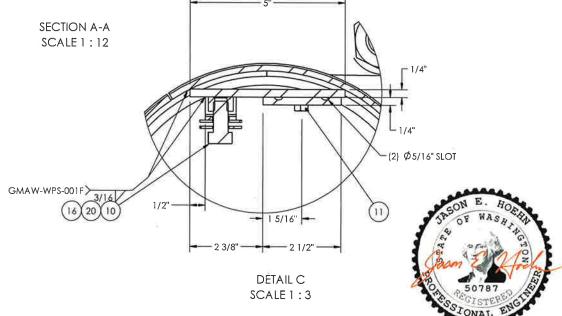
SECTION AR-AR SCALE 1:12



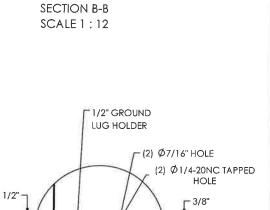


Approved For Listing As A Pre-Approved Drawing
WSDOT Bridge & Structures Office

Date 9-14-2020



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



1/4" X 2"

CONTINUOUS BACK-UP RING

**©**:

DETAIL H SCALE 1:6

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SALES ORDER NO.: QTY: STATE: SHEET 74515 WA 2 OF 3 DESCRIPTION:

SUB POLE LIGHT RD TYPE 1 - ELBOW

DRAWING NO: EST. WEIGHT: 74515-WA-LP1-ELBOW

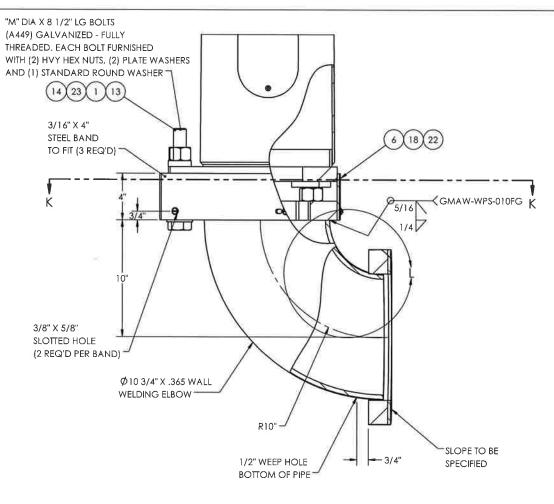
STATE OF WASHINGTON LIGHT POLES TYPE 1

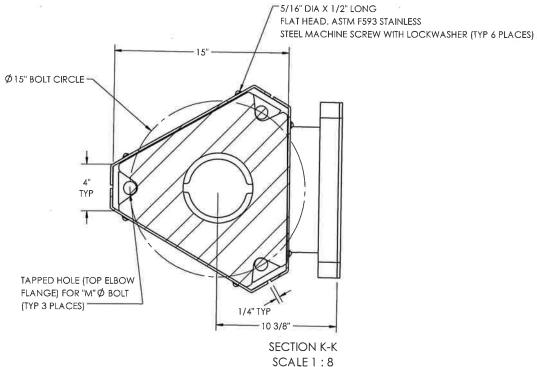
PROJECT LOCATION

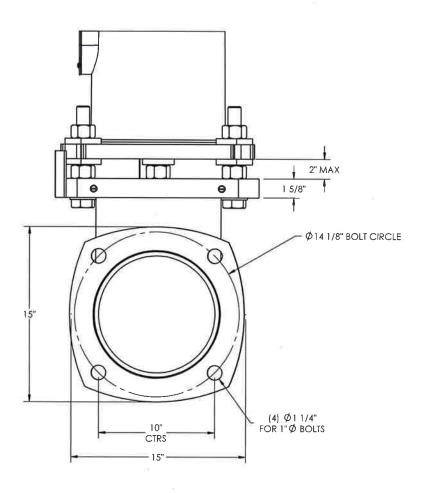
PROJECT NO.: CONTROL/CONTRACT NO .:

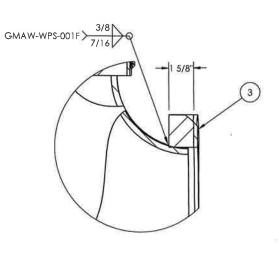
DWN BY: REBEKAH DATE: 2/20/17 DATE:

CHK BY:









DETAIL L SCALE 1:6

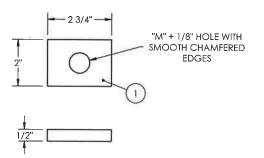


PLATE WASHER DETAIL

# **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)



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74515 DESCRIPTION:

3 OF 3 WA

DRAWING NO:

EST. WEIGHT:

SUB POLE LIGHT RD TYPE 1 - ELBOW

74515-WA-LP1-ELBOW

STATE OF WASHINGTON LIGHT POLES TYPE 1

PROJECT LOCATION:

WA

DWN BY: REBEKAH DATE: 2/20/17

DATE: