QTY	DESIGN NUMBER	BASE TYPE	ARM SPAN	NO. OF ARMS	POLE SIZE "A"	MTG. HGT.
	71035-B39-Y1		–	0	11E-8.73x3.13x40'-0"	
	71035-B39-Y2		6'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y3		8'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y4		10'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y5		12'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y6		14'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y7		16'-0"	1	11E-8.62x4.00x33'-0"	
	71035-B39-Y8		6'-0"	2	11E-8.62x4.00x33'-0"	
	71035-B39-Y9		8'-0"	2	11E-8.62x4.00x33'-0"	
	71035-B39-Y10		10'-0"	2	11E-8.62x4.00x33'-0"	
	71035-B39-Y11		12'-0"	2	11E-8.62x4.00x33'-0"	
	71035-B39-Y12		14'-0"	2	11E-8.62x4.00x33'-0"	
	71035-B39-Y13		16'-0"	2	11E-8.62x4.00x33'-0"	

LUMINAIRE ARM DATA		
SPAN "S"	ARM TUBE "E"	PIPE TUBE "F"
6'-0"	11EV-4.46x2.89x11'-3"	.154"W-2.375"x0'-9"
8'-0"	11EV-4.46x2.64x13'-0"	.154"W-2.375"x0'-9"
10'-0"	11EV-4.46x2.40x14'-9"	.154"W-2.375"x1'-0"
12'-0"	11EV-4.46x2.40x14'-9"	.154"W-2.375"x2'-9"
14'-0"	11EV-4.46x2.40x14'-9"	.154"W-2.375"x4'-6"
16'-0"	11EV-4.46x2.40x14'-9"	.154"W-2.375"x6'-6"

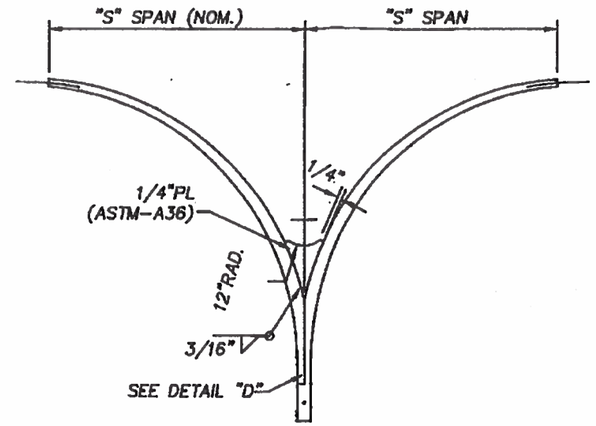
ALLOW SIGN = 20.0 SQ. FT.
CENTER OF PRESSURE AT
ELEVATION 9.5FT. ABOVE ROADWAY

RATING NOTE:
POLES DESIGNED TO SUPPORT LUMINAIRE(S) W/
PA 3.3sq.ft. (Cd=0.5) AND WEIGHT OF 75lbs.
POLE MOUNTED SIGN AS SHOWN IN CHART (Cd=1.2)
DESIGNED PER 2009 AASHTO
DESIGN LIFE: 50 YEARS/RECURRENCE INTERVAL
BASIC WIND SPEED: 90MPH

WELDING NOTE:
1. WELDING PER AWS D1-1 STRUCTURAL WELDING CODE, LATEST EDITION AND SECTION 5.15 OF THE SPECIFICATION FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, AASHTO 2009.
2. LONGITUDINAL SEAM WELD IS 60% MINIMUM PENETRATION EXCEPT FOR 6 INCHES FROM END OF SECTION AT FLANGE, BASE PLATE, AND SLIP JOINT IS 100% PENETRATION.

NOTES:
1. THE STRUCTURE SHALL BE GALVANIZED TO ASTM-A123, DAMAGED GALVANIZING SHALL BE REPAIRED PER ASTM-A780.
2. FOR POLES REQUIRING DIFFERENT SIZES THAN SHOWN, POLE BASE DIA SHALL BE ADJUSTED @ 0.14 IN/FT TAPER.
3. POLE BASE W/O SLIP BASE AND ANCHOR PLATE IS FIXED BASE. WHEN A FIXED BASE IS REQ'D BY CONTRACT PLANS, ROTATE THE ANCH. BOLT PATTERN SHOWN ON STD PLAN J-28.30 & INSTALL BASE PL DIRECTLY ON FOUNDAITON. (IF SLIP BASE IS REQ'D, DESIGNATE BY ADDING 'SB' TO THE DESIGN NO. IF FIXED BASE IS REQ'D, ADD SUFFIX 'FB').
4. BASE PLATE FOR POLES MT'D ON MEDIAN BARRIERS SHALL BE AS SHOWN ON CONTRACT PLANS.
5. ALL WIRE WAYS SHALL BE ROUNDED SMOOTH.
6. SEE SHEET 2 OF 2 FOR BASE DETAILS.

MATERIAL SPECIFICATIONS	
TAPERED TUBE	ASTM A595 GR A
BASE PLATE	ASTM A572 GR50
KEEPER PLATE	ASTM A36 or A1011
ALL OTHER PLATES & SHAPES	ASTM A36
BAR HANDHOLE FRAME	ASTM A529 GR 50 (PREFERRED) or ASTM A572 GR 50 or ASTM A709 GR 50
HANDHOLE COVER	ASTM A36 or A1011
ANCHOR BOLTS	ASTM F1554 GR 105 MECH.
ANCHOR BOLT NUTS	ASTM A563 GR DH
FLAT WASHERS	ASTM F436
ARM CONNECTION BOLTS	ASTM A325
ARM CONNECTION NUTS	ASTM A563 GR DH
JOINT STUD	ASTM A36 or A307
"ANCO" LOCK NUTS	ASTM A563 GR DH
PIPE & TUBE	ASTM A501, A53 GR B, A513, or A500 GR B
S.S. HARDWARE	AISI-300 SERIES (18-8)
STRUCTURE FINISH	SEE NOTE 1
HARDWARE FINISH	HD GALV TO ASTM A153



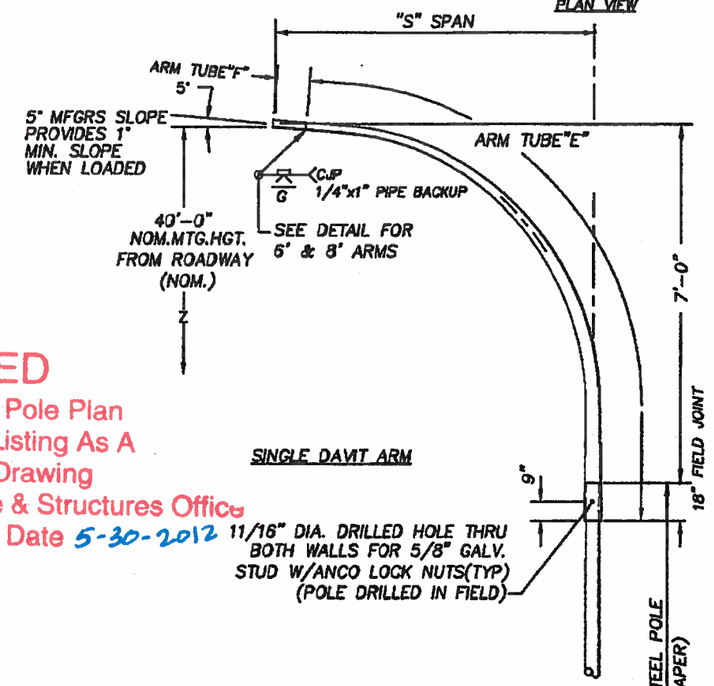
TWIN DAVIT ARM

ATTACH LUMINAIRE FIXTURE TO TENON W/(4) 1/4"-UNC HEX.HD.

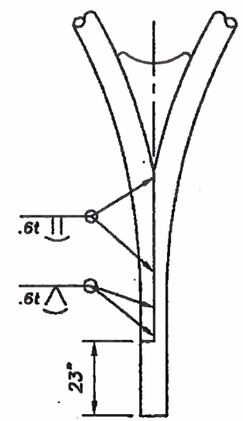
STAINLESS STEEL CAP SCR.W/ LOCKWASHER (DRILL & TAP TENON. DRILL 9/32" HOLE IN LUMINAIRE.)

HANDHOLE LOCATED AS SHOWN EXCEPT ON BRIDGE MOUNTED POLES. HANDHOLE TO BE ON SAME CL. AS ARM (180° FROM SHOWN.)
THIS MUST BE SPECIFIED WITH PURCHASE ORDER

PLAN VIEW

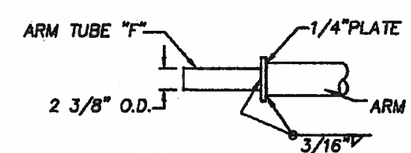


SINGLE DAVIT ARM

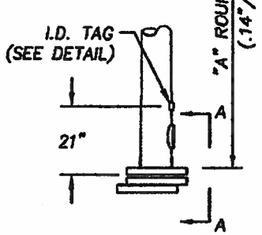


DETAIL "D"

APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 5-30-2012

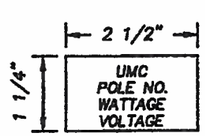


TUBE "F" WELD DETAIL
6' & 8' LUM ARMS ONLY



ORDERING INFORMATION:
IF MOUNTING HEIGHT DIFFERS FROM 40'-0", SPECIFY WITH DESIGN NUMBER:
EXAMPLE – 71035-B39-Y2-35-SB-12 ← LUM SPREAD
35'-0" MOUNTING HEIGHT — SLIP BASE

- FOR A 35'-0" MOUNTING HEIGHT, POLE SIZE "A" WILL BE 11E-7.92x4.00x28'-0"
- FOR A 30'-0" MOUNTING HEIGHT, POLE SIZE "A" WILL BE 11E-7.22x4.00x23'-0"
- FOR MOUNTING HEIGHTS GREATER THAN 40'-0", SEE DRAWING 71035-B50



ID TAG

COMMONWEALTH OF MASSACHUSETTS
DAVID N. FRITZ
STRUCTURAL
No. 46458
REGISTERED PROFESSIONAL ENGINEER
5/21/12

REV	DESCRIPTION	DATE	BY	CHK BY
R10	ADDED A500 GR B PIPE TO MATERIAL SPEC'S	9/30/11	BBD	BJR
R9	REDRAWN, UPDATED BORDER & MAT'L SPECS	12/11/09	RGR	BBD

REVISIONS

STATE: WA | REQ# / SO# : ~
PROJECT NAME: WASHINGTON DOT

40'-0" NOM. STEEL POLE W/ SINGLE & TWIN DAVIT ARMS (TYPE I ARM)
FOR WASHINGTON DOT

Union Metal Corporation

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DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF
LCV	[illegible]	3/19/04	NTS	71035-B7
71035-B39			REVISION R10	SHEET 1 OF 2

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