

Date : _____



Capital Electric Line Builders, Inc.

An MDU Resources Company

Shop Drawing Submittal

Project: Chipman and Donovan

Project #:

City/State: Lee's Summit, MO

Scope of Work: Traffic Signal

Attachments:

- Mast arm pole submittals per plans sheets stamped 9/23/19 by the City of Lee's Summit.

REVIEWED

By: *[Signature]*
Priority Engineers, Inc.

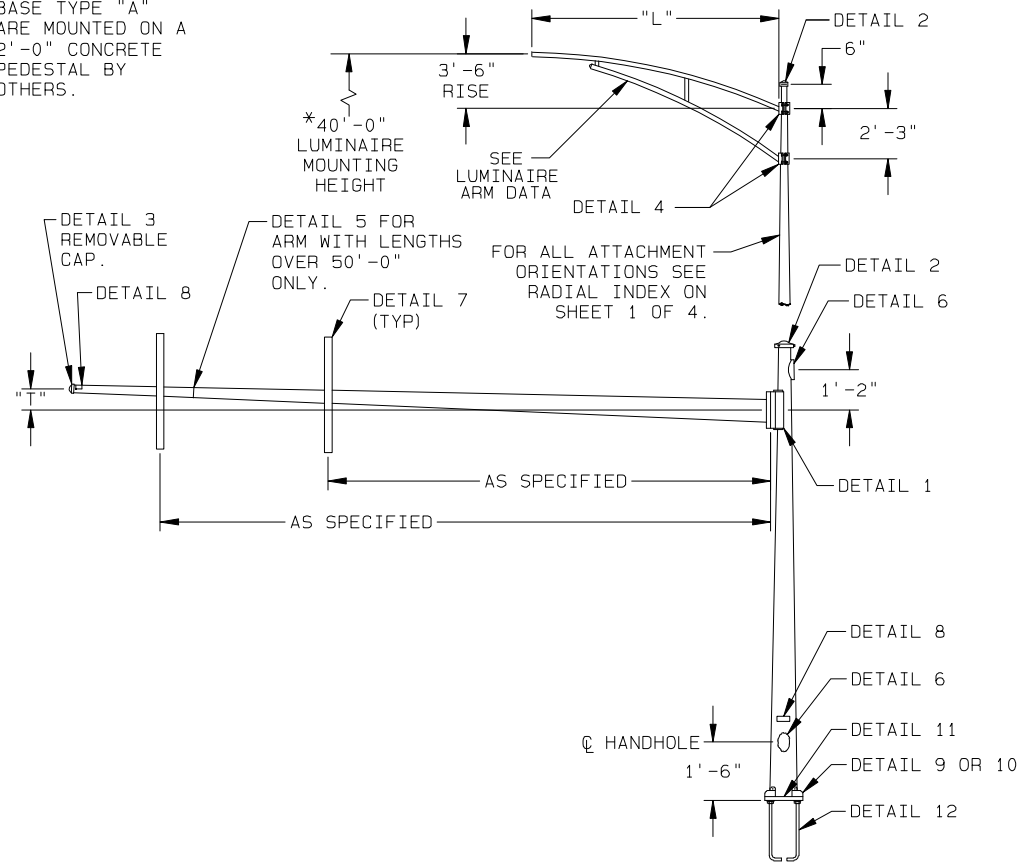
OCT 04 2019

- ☒ NO REVISIONS NECESSARY
- ☐ REVISE AS NOTED
- ☐ REVISE AND RESUBMIT

Obtain City of Lee's Summit approval

www.celbinc.com

*
NOTE:
BASE TYPE "A"
ARE MOUNTED ON A
2'-0" CONCRETE
PEDESTAL BY
OTHERS.

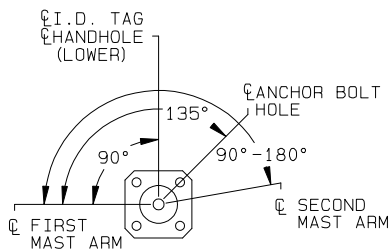


FOR THIS INFORMATION	SEE PAGE	TABLE
SINGLE MAST ARM TRAFFIC POLE STRUCTURE DATA	4	1
SINGLE MAST ARM WITH LUMINAIRE ARM TRAFFIC POLE STRUCTURE DATA	4	2
DOUBLE MAST ARM WITH LUMINAIRE ARM TRAFFIC POLE STRUCTURE DATA	4	3
DOUBLE MAST ARM TRAFFIC POLE STRUCTURE DATA	4	4
MATERIAL DATA	4	5
SIGNAL MAST ARM DATA	4	6
ELEVATIONS	4	7
LUMINAIRE ARM DATA	4	8
DESIGN DETAILS	2 & 3	—

GENERAL NOTES:

1. ALL WELDS SHALL BE MECHANICALLY CLEANED BEFORE GALVANIZING.
2. GALVANIZED MATERIAL SHALL BE HANDLED ON A MANNER TO AVOID DAMAGE TO THE SURFACES. ANY GALVANIZED MATERIAL ON WHICH THE SPECTER COATING HAS BEEN BRUISED OR BROKEN WILL BE REJECTED OR MAY WITH APPROVAL OF THE ENGINEER BE REPAIRED IN ACCORDANCE WITH SECT. 712.14 OF MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. SEE DOCUMENTS OF APPROVED WELDING PRODEURES FOR MISSOURI TRAFFIC STANDARDS.

FOR COMBINATION POLES
UPPER HANDHOLE WILL BE
180° FROM FIRST MAST ARM

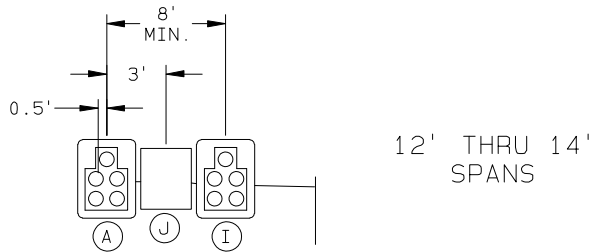


ALL ANGLES MEASURED
CLOCKWISE FROM FIRST
MAST ARM AS VIEWED
FROM SMALL END OF POLE

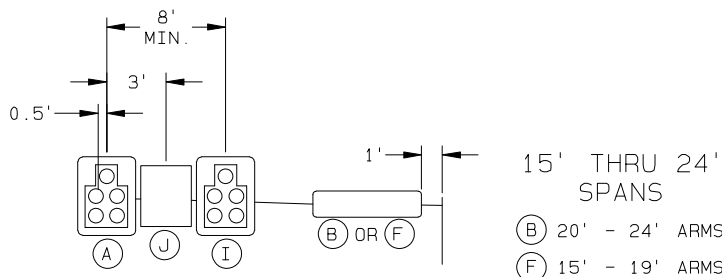
RADIAL INDEX



TYPICAL TOP VIEW

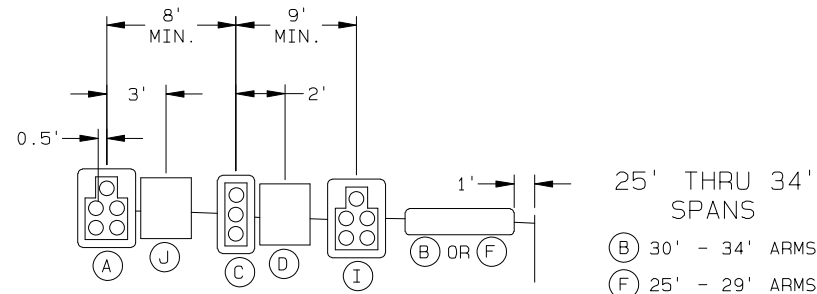


12' THRU 14'
SPANS



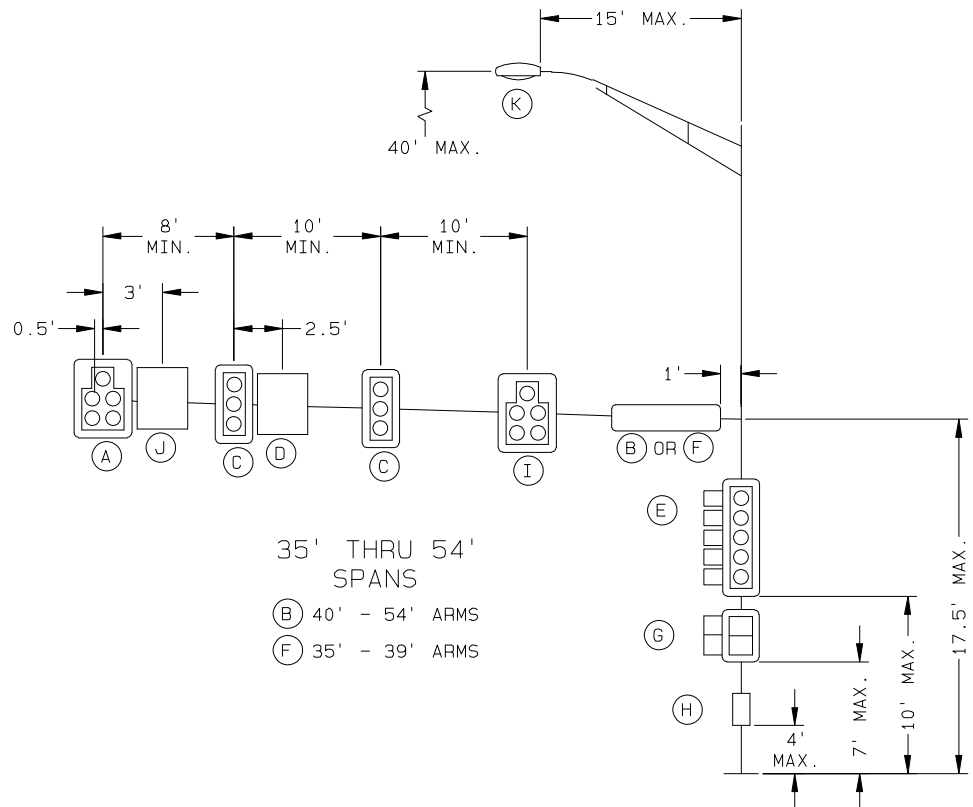
15' THRU 24'
SPANS

- (B) 20' - 24' ARMS
- (F) 15' - 19' ARMS



25' THRU 34'
SPANS

- (B) 30' - 34' ARMS
- (F) 25' - 29' ARMS



35' THRU 54'
SPANS

- (B) 40' - 54' ARMS
- (F) 35' - 39' ARMS

DESIGN CRITERIA:

1994 AASHTO STANDARD SPECIFICATIONS FOR
STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS,
LUMINAIRES AND TRAFFIC SIGNALS. WITH
THE EXCEPTION OF WIND VELOCITY OF 90 MPH
ISOTACH, AND 1.33 OF ALLOWABLE STRESS
FACTOR FOR GROUP II AND III LOADS.

DEVICE	DESCRIPTION	PROJ AREA (FT²)	WEIGHT (LBS)
(A) SIGNAL	DUAL-12"-5 SEC W/BACKPLATE (BACK TO BACK)	12.00	200
(B) SIGN	STREET NAME 120" X 18"	15.00	25
(C) SIGNAL	12"-3 SEC W/BACKPLATE	8.00	60
(D) SIGN	REGULATORY 24" X 30"	5.00	27
(E) SIGNAL	DUAL-12"-5 SEC W/BACKPLATE	24.00	200
(F) SIGN	STREET NAME 96" X 16"	10.7	18
	STREET NAME 96" X 18"	12.0	20
	STREET NAME 96" X 28"	18.7	31
(G) SIGNAL	DUAL-2 SEC-PEDESTRIAN	12.00	80
(H) SIGN	REGULATORY 9" X 18"	2.20	4
(I) SIGNAL	12"-5 SEC W/BACKPLATE	12.00	100
(J) SIGN	DUAL-REGULATORY 24" X 30" (BACK TO BACK)	5.00	54
(K) LUMINAIRE	150 WATT LUMINAIRE	1.00	30

400W Equivalent
LED

LOADING INFORMATION

A	RBC2 10/18/10	MAW2 10/19/10	TABLE 7: POLE LENGTHS WERE 37' & 39', ARE NOW 35' & 37'.
	GGL 09/20/10	GGL 09/20/10	— — — — —
REV	DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION

TITLE CITY OF LEE'S SUMMIT, MO.

NW Ward Rd & NW Tudor Rd

Sold to: Gades PO# 54933 / Val#424004-P1

Ship to: Capital Electric Line Builders PO# 284899

TRAFFIC SIGNAL STRUCTURES

VALMONT INDUSTRIES, INC. RESERVES
THE RIGHT TO INSTALL VARIOUS,
ENGINEER APPROVED, MATERIAL HANGING
ACCOMMODATIONS TO FACILITATE THE
MANUFACTURING PROCESS.

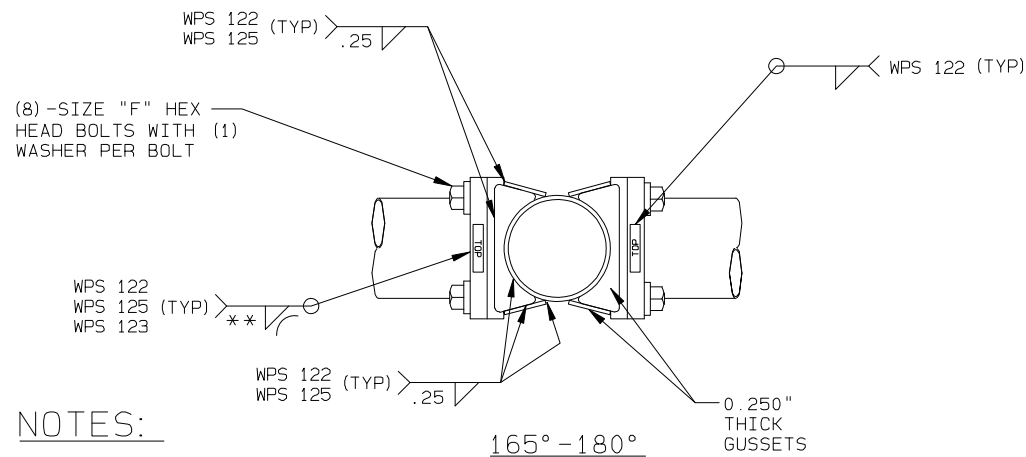
valmont 

Valley, NE 68064
(402) 359-2201

PAGE NUMBER:	1	OF	4
DRAWING NUMBER			REV

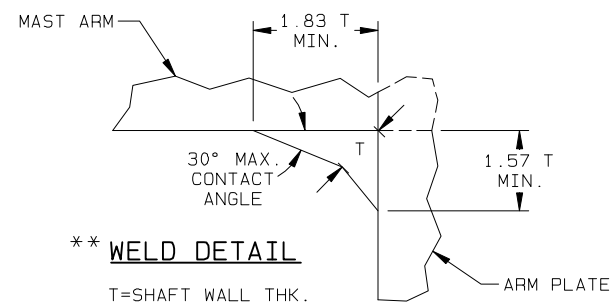
DB00947

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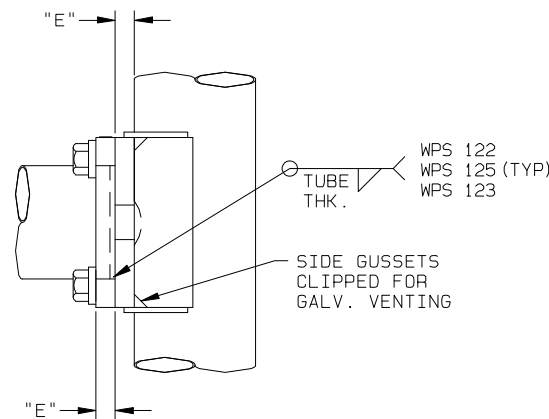
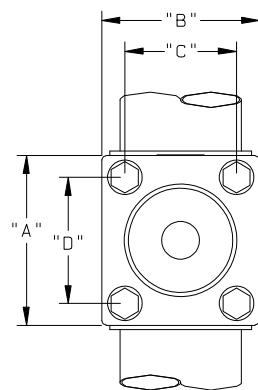
NOTES:

✱ ✱ SEE WELD DETAIL.



✱ ✱ **WELD DETAIL**

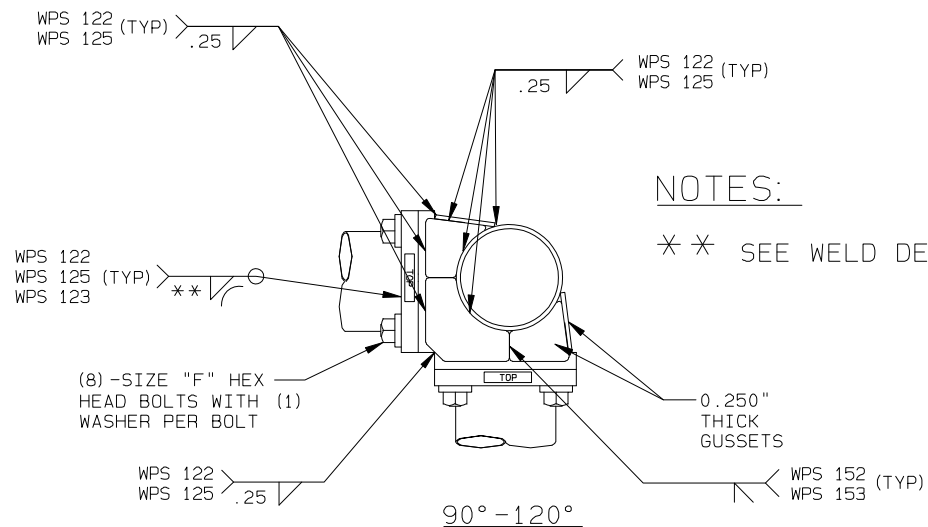
T=SHAFT WALL THK.



NOTE:
ARMS SHALL BE PROVIDED WITH A PERMANENT MARKING
INDICATING PROPER ORIENTATION FOR INSTALLATION.
(SEE DETAIL 13 ON SHEET 3 OF 4)

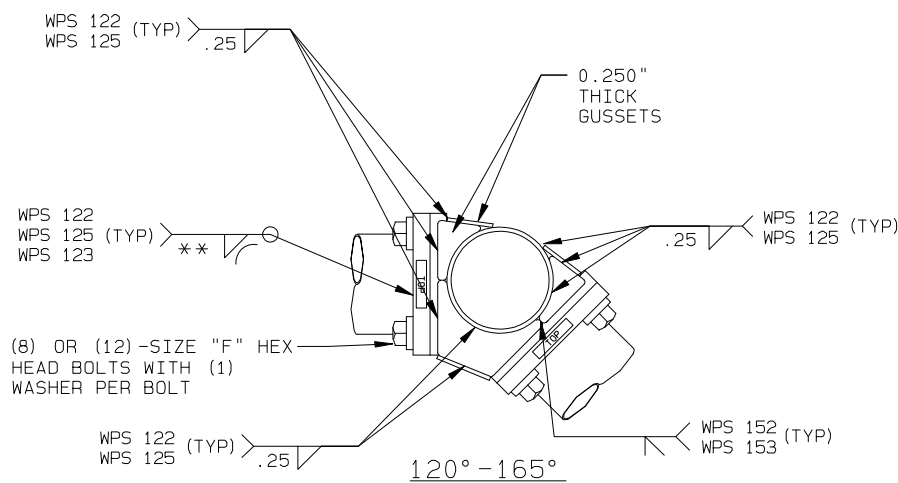
SIGNAL ARM ATTACHMENT DATA 15' -54' ARMS

POLE BASE DIA.	GAUGE OR THK.	"A"	"B"	"C"	"D"	"E"	"F"
10.00"	7	11.75"	9.25"	5.75"	8.25"	1.00"	1.00" X 2.25"
11.00"	7	12.50"	10.00"	6.25"	8.75"	1.25"	1.25" X 2.75"
12.00"	7	12.75"	11.00"	7.25"	9.00"	1.25"	1.25" X 2.75"
12.50"	5	13.00"	11.50"	7.75"	9.25"	1.25"	1.25" X 2.75"
12.50"	3	14.00"	12.50"	8.75"	10.25"	1.50"	1.25" X 3.25"
13.00"	5	15.50"	14.00"	10.25"	11.75"	1.50"	1.25" X 3.25"
13.00"	3	15.75"	14.25"	9.75"	11.25"	1.50"	1.50" X 3.50"
14.00"	0.25"	16.75"	15.25"	10.75"	12.25"	1.75"	1.50" X 4.00"
14.50"	0.25"	17.00"	15.50"	11.00"	12.50"	1.75"	1.50" X 4.00"
15.00"	0.25"	17.25"	15.75"	11.25"	12.75"	1.75"	1.50" X 4.00"
16.00"	0.25"	17.50"	16.00"	11.50"	13.00"	2.00"	1.50" X 4.25"
17.00"	0.25"	17.75"	16.25"	11.75"	13.25"	2.00"	1.50" X 4.25"
18.00"	0.25"	18.50"	17.00"	12.50"	14.00"	2.00"	1.50" X 4.25"
DETAIL 1		SIGNAL ARM ATTACHMENT					



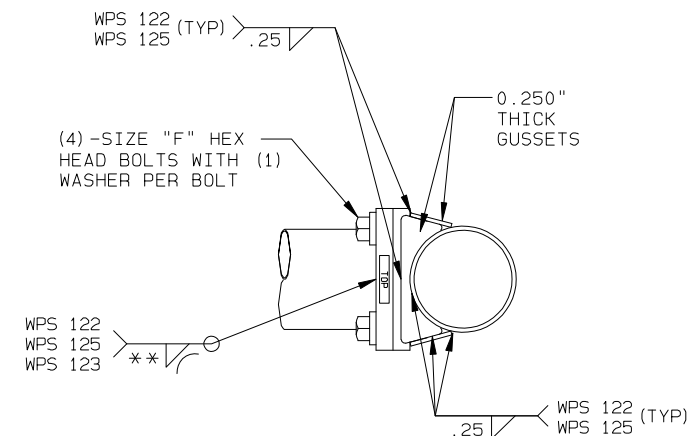
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