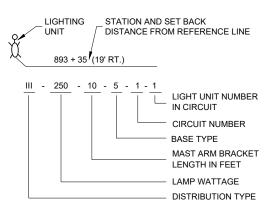
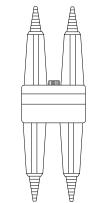
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT

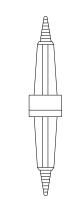
THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

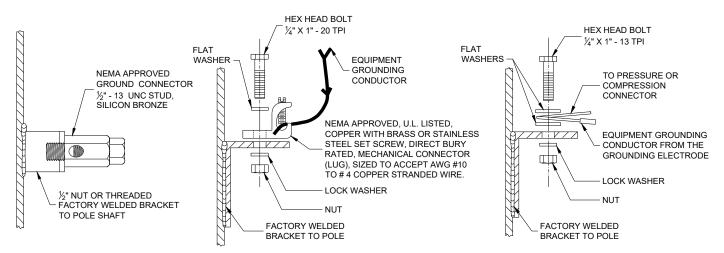




DETAIL "A"
BREAKAWAY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT

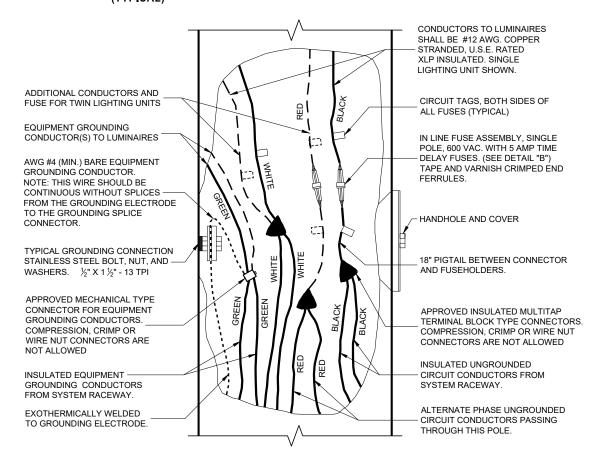


DETAIL "B"
BREAKAWAY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



## TYPICAL GROUNDING CONNECTIONS NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

# LIGHTING UNIT CODE (TYPICAL)



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS)
WITH GROUNDING CONDUCTOR AND
EQUIPMENT GROUNDING CONDUCTOR

TWIN LIGHTING UNITS REQUIRE UNGROUNDED CONDUCTORS TO INDIVIDUAL SETS OF UNGROUNDED LUMINAIRES SHALL BE #12 AWG, CONDUCTORS AND FUSE ASSEMBLIES. COPPER STRANDED, U.S.E. RATED XLP INSULATED. SINGLE LIGHTING UNIT SHOWN. TWIN LIGHTING UNIT EQUIPMENT GROUNDING CONDUCTOR EQUIPMENT GROUNDING CONDUCTOR IN LINE FUSE ASSEMBLY, TWO AWG #4 (MIN.) BARE EQUIPMENT POLE, 600 VAC. WITH 5 AMP TIME GROUNDING CONDUCTOR. DELAY FUSES. (SEE DETAIL "A") NOTE: THIS WIRE SHOULD BE TAPE AND VARNISH CRIMPED END CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE TO THE GROUNDING SPLICE HANDHOLE AND COVER CONNECTOR TYPICAL GROUNDING CONNECTION CIRCUIT TAGS, BOTH SIDES STAINLESS STEEL BOLT, NUT, AND OF ALL FUSES. (TYPICAL) WASHERS. ½" X 1½" - 13 TPI 18" PIGTAIL BETWEEN CONNECTORS APPROVED MECHANICAL TYPE AND FUSEHOLDERS CONNECTOR FOR EQUIPMENT GROUNDING CONDUCTORS. COMPRESSION, CRIMP OR APPROVED INSULATED MULTITAP WIRE NUT CONNECTORS ARE TERMINAL BLOCK TYPE CONNECTORS NOT ALLOWED COMPRESSION, CRIMP OR WIRE NUT CONNECTORS ARE NOT ALLOWED. INSULATED EQUIPMENT GROUNDING CONDUCTORS FROM SYSTEM RACEWAY. INSULATED UNGROUNDED **EXOTHERMICALLY WELDED** CIRCUIT CONDUCTORS FROM TO GROUNDING ELECTRODE SYSTEM RACEWAY.

2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS)
WITH EQUIPMENT GROUNDING CONDUCTOR

# NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018

November 2018 /S/ Ahmet Demirbilek

DATE STATE ELECTRICAL ENGINEER

SDD 09E03-0

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### Non-Freeway Lighting Unit Pole Wiring

#### References:

FDM15-5 Attachment 30.5 and 30.6 for conventional symbols.

Standard Spec. 655 Electrical Wiring

TSDM 5-1-6 for determining electrical cable quantities

#### Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
655.0600 - 0699	Electrical Wire Lighting (AWG)	LF

### Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

#### Other SDDs associated with this drawing:

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SDD 9E1	Pole Mountings, sheets "a", "b", "c", "d", "e" and "f"	
SDD 9E8 Type 9, Type 10, Type 9/10 Special, Type 12 and Type 13 Poles with Monotube Arms, sheets "e", "f", "g", "e", "h", "j", and "k"		
SDD 9E12	Over Height Poles and Monotube Arms, sheets, "b", "d", and "e"	
SDD 10A1	Electrical Handhole Wiring	
SDD 10A2	Identification Plaques Light Poles	
SDD 10A3	Circuit Identification Plaques Sign Bridges	
SDD 10A4	Identification Plaques Underdeck and High Mast Lighting	
SDD 10A5	Electrical Details Ground Mount Light Poles Isolated Neutral Systems	
SDD 10A6	Electrical Details Ground Mount Light Poles Phase-to-Phase Systems	
SDD 10A7	Electrical Details Ground Mount Light Poles Phase-to-Phase Systems	
SDD 10A8	Electrical Details Structure Mount Light Poles Isolated Neutral Systems	
SDD 10A9	Electrical Details Median Mount Light Poles Isolated Neutral Systems	
SDD 10A10	Electrical Details Structure Mount Light Poles Phase-to-Phase Systems	
SDD 10A11	Electrical Details Median Mount Light Poles Isolated Neutral Systems	
SDD 10A12	Electrical Details Median Mount Light Poles Grounded Neutral Systems	
SDD 10A14	Electrical Details High Mast Lighting, sheets "a" and "b"	
SDD 10A15	Electrical Details Underdeck Lighting, sheets "a" and "b"	
SDD 10A17	Poles, sheets "a", "b", and "c"	
SDD 10A18	Luminaire Arms, sheets "a" and "b"	

### **Design Notes:**

NONE

#### **Contact Person:**

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Ahmet Demirbilek (414) 220-6801 (414) 322-9606 (Mobile)
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