



**GENERAL NOTES**

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

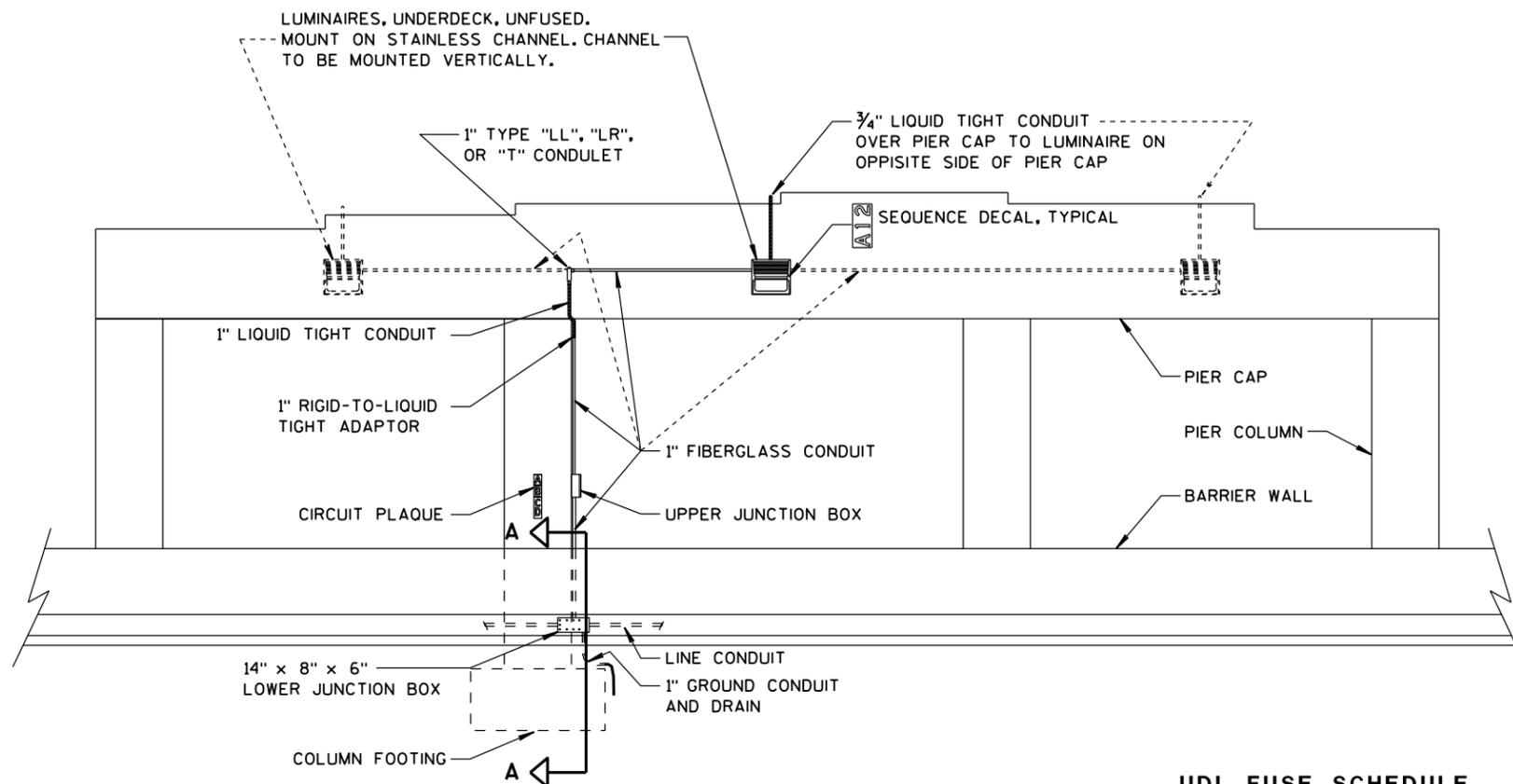
USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING, SUBSTITUTING THE LOWER JUNCTION BOX FOR THE HANDHOLE SHOWN IN THAT DETAIL.

THE PLANS WILL SHOW WHICH CIRCUIT LEGS(S) ARE CONNECTED TO EACH INSTALLATION AND THE REQUIRED NUMBER OF LUMINAIRES.

THE UPPER JUNCTION BOX (FOR FUSE ASSEMBLIES) SHALL CONFORM TO THE APPLICABLE PROVISIONS OF SECTION 653.2.2 OF THE STANDARD SPECIFICATIONS; SHALL BE SUITABLE FOR SURFACE MOUNTING WITH EXTERNAL MOUNTING LUGS; AND SHALL HAVE A HINGED COVER, WING-NUT FASTENERS, AND PADLOCK HASP. ALL HARDWARE SHALL BE STAINLESS STEEL. FURNISH Q-Z/GEDNEY YW-120603, SPRING CITY HC-12-06-04, CROUSE-HINDS WTB-120604, OR APPROVED EQUAL.

MEDIAN CONFIGURATIONS VARY; NOT ALL CASES CAN BE SHOWN IN THIS DETAIL.

WIRING FOR THE FIRST LUMINAIRE PAIR IS SHOWN IN SOLID LINES. WIRING FOR ADDITIONAL LUMINAIRE PAIRS, WHERE REQUIRED, IS SHOWN IN DOTTED LINES.



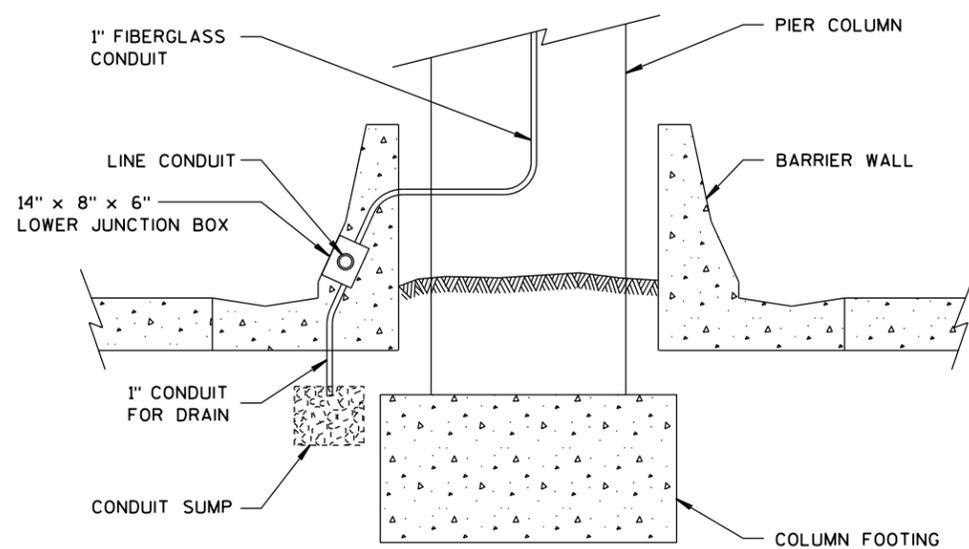
**TYPICAL UNDERDECK LIGHTING INSTALLATION**

**UDL FUSE SCHEDULE**

LINE VOLTAGE φ-GROUND	TOP JUNCTION BOX FUSES
120VAC	5 A
208VAC	5 A
240VAC	5 A
480VAC	3 A

**LEGEND**

- A . B . X . Y . Z UNGROUNDED CIRCUIT CONDUCTORS
- N GROUNDED CIRCUIT CONDUCTORS
- GND EQUIPMENT GROUNDING CONDUCTOR
- P POLE (ELECTRICAL CIRCUIT)
- φ PHASE (ELECTRICAL CURRENT)
- HANDHOLE GROUND LUG
- UNFUSED LUMINAIRE
- SINGLE POLE (1P) FUSE ASSEMBLY
- o TERMINAL
- SPLICE
- CONDUCTOR



**SECTION "A-A"**

**ELECTRICAL DETAILS  
UNDERDECK LIGHTING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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S.D.D. 10 A 15-4a

S.D.D. 10 A 15-4a

Electrical Details Underdeck Lighting

References:

NONE

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
659.1200 - 1299	Luminaries Underdeck LED (Category) .....	EACH
659.0600	Underdeck Lighting (location) .....	EACH

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:

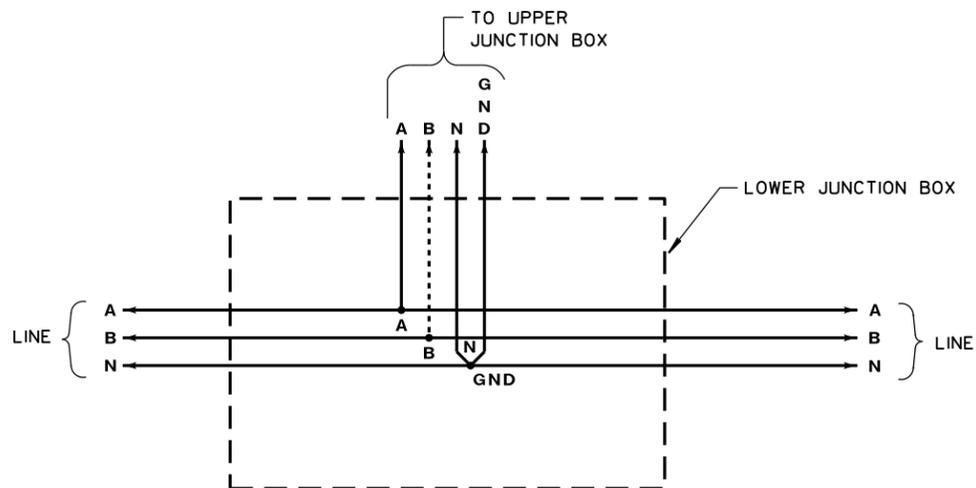
- [SDD 10a1](#) Electrical Handhole Wiring
- [SDD 10a15](#) Electrical Details Underdeck Lighting sheet "b" must be used in conjunction with this drawing.

Design Notes:

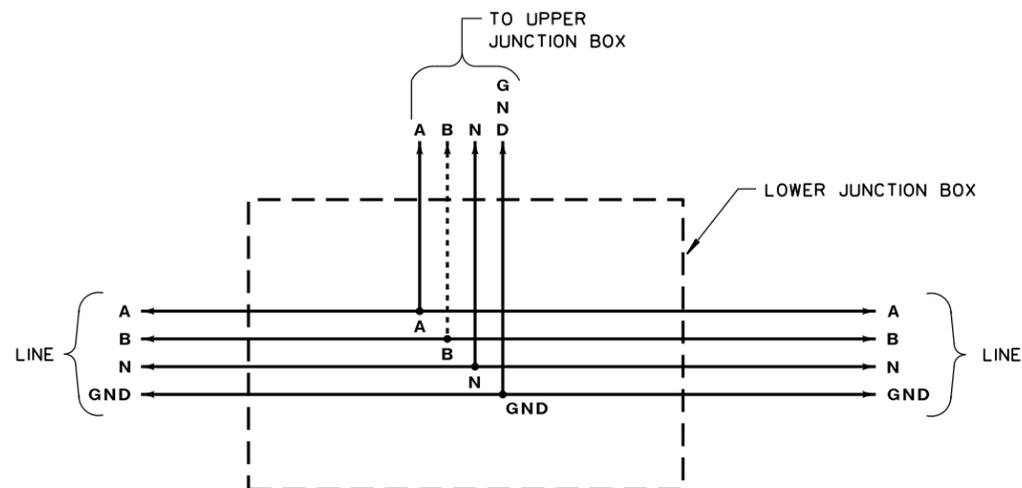
Use this SDD in conjunction with the SDD for Electrical Handhole Wiring. Underdeck Lighting is installed to Maintain Pavement illumination uniformity in conjunction with continuous freeway lighting, except that it may be omitted for narrow underpasses and is sometimes omitted where there is high mast lighting.

Contact Person:

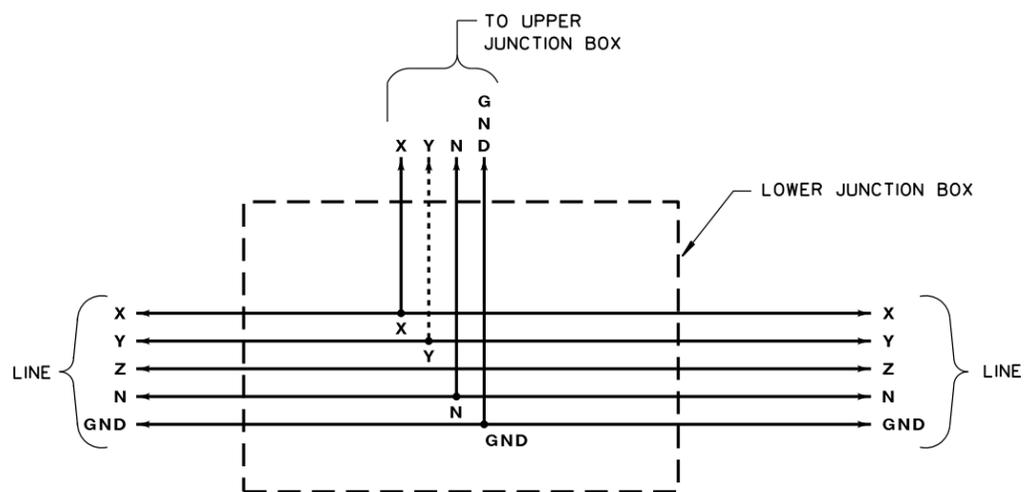
Ahmet Demirbilek (414) 220-6801



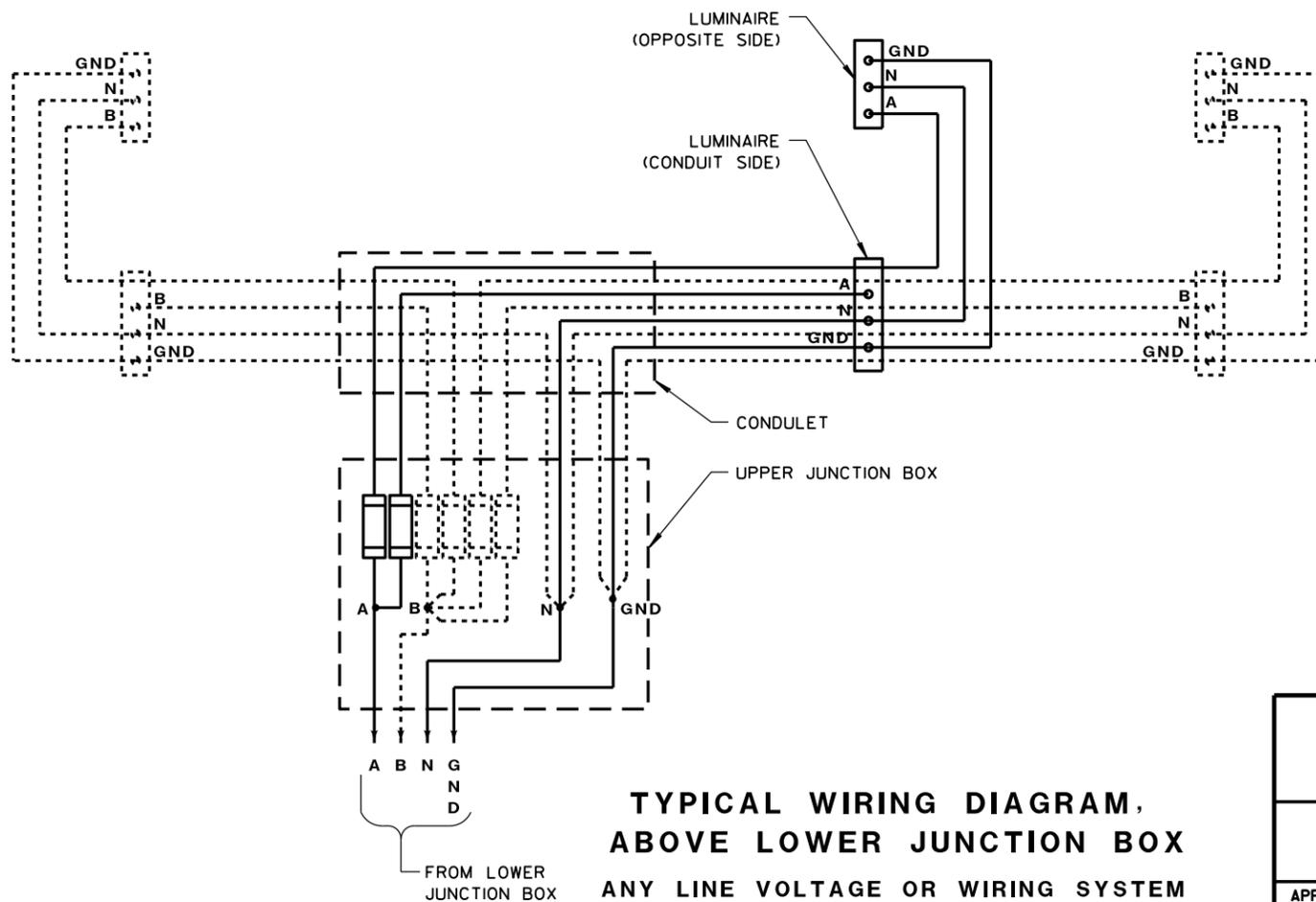
**TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX**  
**GROUNDING NEUTRAL SYSTEM**  
 1- $\phi$  240/480VAC OR 3 WIRE OR 480VAC 2 WIRE



**TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX**  
**ISOLATED NEUTRAL SYSTEM**  
 1- $\phi$  120/240VAC OR 240/480VAC 3 WIRE



**TYPICAL WIRING DIAGRAM, LOWER JUNCTION BOX**  
**ISOLATED NEUTRAL SYSTEM**  
 3- $\phi$  208Y/120VAC OR 480Y/277VAC 4 WIRE



**TYPICAL WIRING DIAGRAM,**  
**ABOVE LOWER JUNCTION BOX**  
 ANY LINE VOLTAGE OR WIRING SYSTEM  
 (NO. 14 AWG TAPS AND BRANCHES)

<b>ELECTRICAL DETAILS UNDERDECK LIGHTING</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 11/26/2013 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER
FHWA	

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S.D.D. 10 A 15-4b

S.D.D. 10 A 15-4b

*Electrical Details Underdeck Lighting***References:**

NONE

**Bid items associated with this drawing:**

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
NONE		

**Standardized Special Provisions associated with this drawing:**

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

**Other SDDs associated with this drawing:**

SDD 10a15      Electrical Details Underdeck Lighting sheet "a" must be used in conjunction with this drawing.

**Design Notes:**

Refer to guidance form sheet "a" of SDD 10A15.

**Contact Person:**

Ahmet Demirbilek (414) 220-6801