



Wisconsin Department of Transportation

Division of Transportation Systems Development

Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

November 10, 2023

Telephone: (608) 266-1631
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NOTICE TO ALL CONTRACTORS:

Proposal #15: 1000-13-76, WISC 2023585
Highway Lighting 2023 SE Region
Various Highways
Various Highways
Milwaukee County

Letting of November 14, 2023

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
20	Tunnel Lighting Mounting Brackets, Item SPV.0060.1003

Added Special Provisions	
Article No.	Description
29	Wireway Fiberglass 4-Inch x 4-Inch, Item SPV.0090.1004

Schedule of Items:

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Proposal Total Prior to Addendum	Quantity Added	Proposal Total After Addendum
654.0102	Concrete Bases Type 2	EACH	0	3	3
654.0230	Concrete Control Cabinet Bases Type L30	EACH	0	1	1
656.0401.1000	Electrical Service Main Lugs Only Meter Pedestal (HL-40-KI)	EACH	0	1	1
657.0305	Poles Type 2	EACH	0	3	3
659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	0	1	1
SPV.0090.1004	Wireway Fiberglass 4-Inch x 4-Inch	LF	0	1200	1200

Plan Sheets:

Added Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
33A	Lighting Plan sheet describing installation of Wireway Fiberglass 4-Inch x 4-Inch and line diagram for luminance photometer
33B	Lighting Plan sheet showing line diagram for Luminance photometer
88A	Miscellaneous Quantity sheet To add quantity for items Wireway Fiberglass 4-Inch x 4-Inch, Item number SPV.0090.1004, Concrete Control Cabinet Bases Type 30L, Item number 654.0230, Electrical Service Main Lugs Only Meter Pedestal (HL-40-KI), Item number 656.0401.1000, and Lighting Control Cabinets 240/480 30-Inch, Item number 659.2230.

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

1000-13-76

November 10, 2023

Special Provisions

20. Tunnel Lighting Mounting Brackets, Item SPV.0060.1003.

Replace entire article language with the following:

A Description

This special provision describes furnishing and installing mounting brackets for tunnel luminaires at the positions shown in the plan for Tunnel B-40-292, B-40-293, B-40-525

B Materials

Provide units as detailed. The brackets are to be mounted on the top of the wall as shown on the plan. Brackets as detailed are for a tunnel fixture of about 2'-0" W x 1'-6"H and a 60 lb luminaire weight. If tunnel luminaires of a different size are proposed, a different sized bracket shall be submitted. See the plan detail for special imitations.

Unit shall receive a prime paint coat and an epoxy final paint coat prior to installation.

C Construction

Install brackets as shown. Utilize expansion anchor bolts for the studs securing the brackets to the tunnel wall.

D Measurement

The department will measure Tunnel Lighting Mounting Brackets by each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.1003	Tunnel Lighting Mounting Brackets Tunnel Lighting	EACH

Payment is full compensation for design, furnishing and installation of the bracket inspection.

29. Wireway Fiberglass 4-Inch x 4-Inch, Item SPV.0090.1004.

A Description

This special provision describes furnishing and installing 4-inch x 4-inch fiberglass wireway for distributing power to the tunnel luminaires.

B Materials

Wireway shall be a UL Listed, fiberglass feed-through type rated NEMA 12 and 3R and constructed of fiberglass reinforced plastic. Screw clamps shall secure the access door. Seams shall be smooth to prevent insulation damage. Gaskets and gasket adhesives shall be oil resistant.

Materials shall meet flammability rating UL 94-5 and meet UL cold impact test for temperatures to -35 Degree C. The wireway shall be recognized by the NEC for both indoor and outdoor applications.

C Construction

Wireway shall be supported per manufacturer's instructions. Mount wireway with cover as the front. Penetrations into the wireway for feeding tunnel fixtures shall be made in accordance to the manufacturer's recommendations.

D Measurement

The department will measure Wireway Fiberglass 4-Inch x 4-Inch by the linear foot of wireway, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.1004	Wireway Fiberglass 4-Inch x 4-Inch	LF

Payment is full compensation for providing the wireway, fittings, end plug, and anchoring; inspection.

Schedule of Items

Attached, dated November 10, 2023, are the revised Schedule of Items Pages 1 – 4.

Plan Sheets

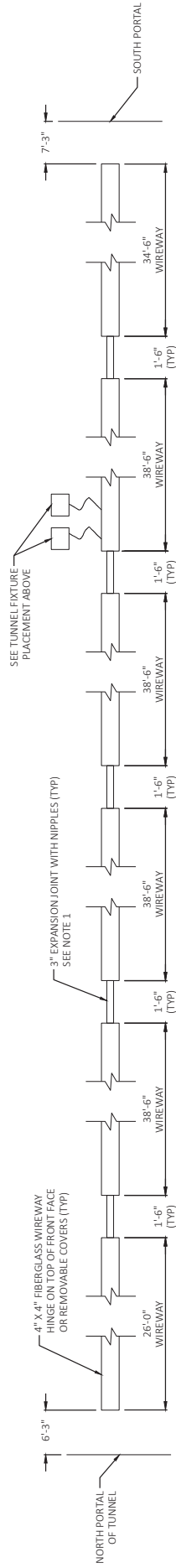
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Added: 33A, 33B, 88A.

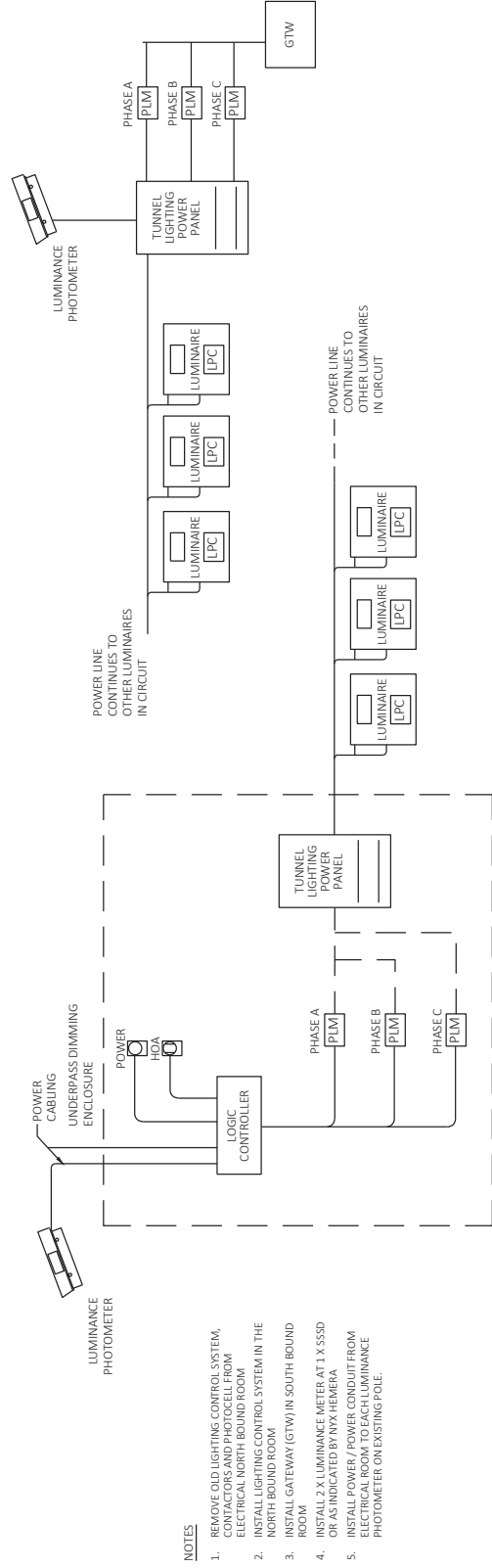
END OF ADDENDUM

NOTES

- 1. 3-INCH GALVANIZED STEEL EXPANSION JOINT SUITABLE FOR 1/2" EXPANSION AND 3/4" DIFFERENTIAL SETTING. COST IS INCIDENTAL TO WIREWAY, TYPICAL S. LOCATIONS. CENTER EXPANSION JOINT ON WALL CONSTRUCTION JOINT
- 2. 3/4" LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LDMC) WITH 2#10, GND TO ALL FIXTURES ON THE TOP AND LOWER LEVEL WIRE TO BE THINW/THIN.



POWER WIREWAY
TYP ALL TUNNELS



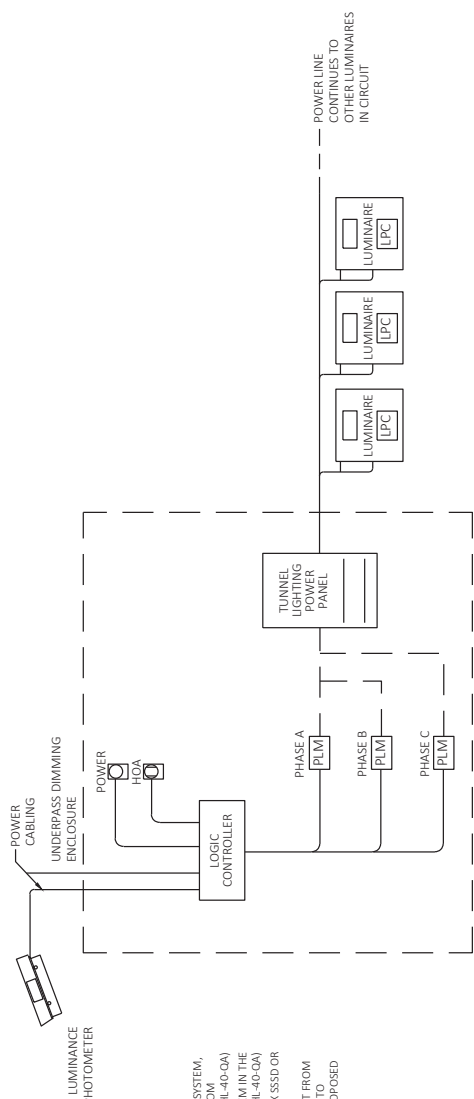
NOTES

- 1. REMOVE OLD LIGHTING CONTROL SYSTEM, CONTACTORS AND PHOTOCELL FROM ELECTRICAL NORTH BOUND ROOM
- 2. INSTALL LIGHTING CONTROL SYSTEM IN THE NORTH BOUND ROOM
- 3. INSTALL GATEWAY (GTW) IN SOUTH BOUND ROOM
- 4. INSTALL 2 X LUMINANCE METER AT 1 X SSSD OR AS INDICATED BY NYX HEMERA
- 5. INSTALL POWER / POWER CONDUIT FROM ELECTRICAL ROOM TO EACH LUMINANCE PHOTOMETER ON EXISTING POLE.

LIGHTING CONTROLS BLOCK DIAGRAM
HOWELL TUNNELS

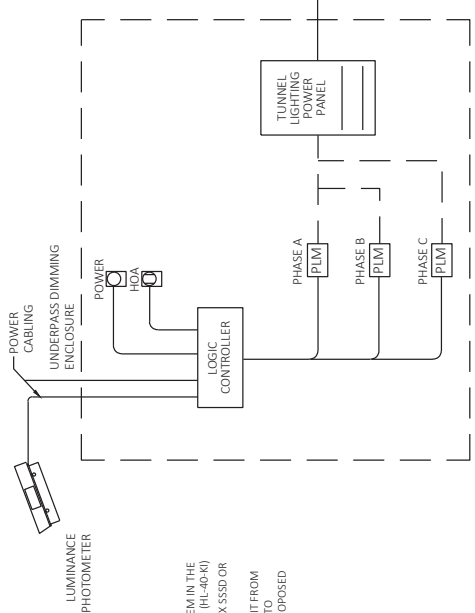
Addendum No. 01
ID 1000-13-76
Added Sheet 33A
November 10, 2023

Addendum No. 01
 ID 1000-13-76
 Added Sheet 33B
 November 10, 2023



**LIGHTING CONTROLS BLOCK DIAGRAM
KILBOURN EXIT TUNNEL**

- NOTES**
1. REMOVE OLD LIGHTING CONTROL SYSTEM, CONTACTORS AND PHOTOCELL FROM EXISTING DISTRIBUTION CENTER (HL-40-QA)
 2. INSTALL LIGHTING CONTROL SYSTEM IN THE EXISTING DISTRIBUTION CENTER (HL-40-QA)
 3. INSTALL LUMINANCE METER AT 1 X 55SD OR AS INDICATED BY NYX HEMERA
 4. INSTALL POWER / POWER CONDUIT FROM DISTRIBUTION CENTER (HL-40-QA) TO LUMINANCE PHOTOMETER ON PROPOSED POLE AND FOUNDATION.



**LIGHTING CONTROLS BLOCK DIAGRAM
KILBOURN ENTRANCE TUNNEL**

- NOTES**
1. INSTALL LIGHTING CONTROL SYSTEM IN THE PROPOSED DISTRIBUTION CENTER (HL-40-K)
 2. INSTALL LUMINANCE METER AT 1 X 55SD OR AS INDICATED BY NYX HEMERA
 3. INSTALL POWER / POWER CONDUIT FROM DISTRIBUTION CENTER (HL-40-K) TO LUMINANCE PHOTOMETER ON PROPOSED POLE AND FOUNDATION.

LIGHTING - CONTROL AND SERVICES
480Y/277 VAC 4-WIRE

654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
656.0401.1000 ELECTRICAL SERVICE MAIN LUGS ONLY/METER PEDESTAL (HL-40-KI)
659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH

CATEGORY	STAGE	DESCRIPTION/ SEQUENCE	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	656.0401.1000 ELECTRICAL SERVICE MAIN LUGS ONLY/METER PEDESTAL (HL-40-KI)	659.2230 LIGHTING CONTROL CABINETS 240/480 30-INCH	COMMENTS
1100	2	HL-40-KI	1	1	1	KILBOURN ENTRANCE RAMP (STRUCTURE B-40-293)
TOTAL						

LIGHTING - TUNNEL CONDUIT
480Y/277 VAC 4-WIRE

654.0102 CONCRETE BASES TYPE 2
657.0305 POLES TYPE 2
SPV.0090.1004 WIREWAY FIBERGLASS 4-INCH X 4-INCH

CATEGORY	STAGE	SYSTEM	DESCRIPTION	FUNCTION	654.0102 CONCRETE BASES TYPE 2	657.0305 POLES TYPE 2	SPV.0090.1004 WIREWAY FIBERGLASS 4-INCH X 4-INCH	COMMENTS
1100	1/2/3A/3B	HL-40-HO	B-40-525	LUMINANCE PHOTOMETER POWER IN TUNNEL DIMMING IN TUNNEL	1	1	--	MAY USE EXITING POLE
		HL-40-HO		SUBTOTAL	1	1	600	FIXTURE WITH DIMMING CAPABILITIES
		HL-40-OA	B-40-292	LUMINANCE PHOTOMETER POWER IN TUNNEL DIMMING IN TUNNEL	1	1	--	
		HL-40-OA		SUBTOTAL	1	1	300	FIXTURE WITH DIMMING CAPABILITIES
		HL-40-KI	B-40-293	LUMINANCE PHOTOMETER POWER IN TUNNEL DIMMING IN TUNNEL	1	1	300	
		HL-40-KI		SUBTOTAL	1	1	300	FIXTURE WITH DIMMING CAPABILITIES
1100			TOTAL		3	3	1,200	

Addendum No. 01
ID 1000-13-76
Added Sheet 88A
November 10, 2023

ALL ITEMS CATEGORY 1100

PROJECT NO: 1000-13-76

HWY: VARIOUS HIGHWAYS

COUNTY: MILWAUKEE

MISCELLANEOUS QUANTITIES

FILE NAME: _____
PLOT BY: SINGHANI ASSOCIATES
PLOT NAME: _____
PLOT SCALE: 1:1

SHEET: 88A

E



Proposal Schedule of Items

Proposal ID: 20231114015 Project(s): 1000-13-76

Federal ID(s): WISC 2023585

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0002	204.9060.S Removing (item description) 1001. Removing Luminaires Tunnel Lighting	766.000 EACH	_____.	_____.
0004	619.1000 Mobilization	1.000 EACH	_____.	_____.
0006	643.0300 Traffic Control Drums	5,840.000 DAY	_____.	_____.
0008	643.0420 Traffic Control Barricades Type III	500.000 DAY	_____.	_____.
0010	643.0705 Traffic Control Warning Lights Type A	1,000.000 DAY	_____.	_____.
0012	643.0715 Traffic Control Warning Lights Type C	1,220.000 DAY	_____.	_____.
0014	643.0800 Traffic Control Arrow Boards	160.000 DAY	_____.	_____.
0016	643.0900 Traffic Control Signs	2,500.000 DAY	_____.	_____.
0018	643.0920 Traffic Control Covering Signs Type II	90.000 EACH	_____.	_____.
0020	643.1050 Traffic Control Signs PCMS	20.000 DAY	_____.	_____.
0022	643.5000 Traffic Control	1.000 EACH	_____.	_____.
0024	644.1430 Temporary Pedestrian Surface Plate	40.000 SF	_____.	_____.
0026	644.1601 Temporary Pedestrian Curb Ramp	40.000 DAY	_____.	_____.
0028	644.1605 Temporary Pedestrian Detectable Warning Field	8.000 SF	_____.	_____.
0030	644.1810 Temporary Pedestrian Barricade	1,750.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114015 Project(s): 1000-13-76

Federal ID(s): WISC 2023585

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0032	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	550.000 LF	_____.	_____.
0034	652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	150.000 LF	_____.	_____.
0036	653.0140 Pull Boxes Steel 24x42-Inch	2.000 EACH	_____.	_____.
0038	655.0610 Electrical Wire Lighting 12 AWG	9,258.000 LF	_____.	_____.
0040	655.0615 Electrical Wire Lighting 10 AWG	9,473.000 LF	_____.	_____.
0042	655.0620 Electrical Wire Lighting 8 AWG	9,059.000 LF	_____.	_____.
0044	655.0625 Electrical Wire Lighting 6 AWG	500.000 LF	_____.	_____.
0046	655.0630 Electrical Wire Lighting 4 AWG	27,375.000 LF	_____.	_____.
0048	655.0635 Electrical Wire Lighting 2 AWG	2,700.000 LF	_____.	_____.
0050	655.0640 Electrical Wire Lighting 1 AWG	54.000 LF	_____.	_____.
0052	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor	766.000 EACH	_____.	_____.
0054	SPV.0060 Special 1001. Luminaires Tunnel Lighting LED (Daytime)	504.000 EACH	_____.	_____.
0056	SPV.0060 Special 1002. Luminaires Tunnel Lighting LED (Nighttime)	41.000 EACH	_____.	_____.
0058	SPV.0060 Special 1003. Tunnel Lighting Mounting Brackets	545.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114015 Project(s): 1000-13-76

Federal ID(s): WISC 2023585

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0060	SPV.0060 Special 1004. Junction Boxes Steel 18x12x6-Inch Coated	168.000 EACH	_____.	_____.
0062	SPV.0060 Special 1005. Junction Boxes Steel 6x6x4-Inch Coated	68.000 EACH	_____.	_____.
0064	SPV.0060 Special 1006. Distribution Center Preventative Maintenance	3.000 EACH	_____.	_____.
0066	SPV.0060 Special 1007. Tunnel Cleaning - Kilbourn NB Exit Ramp	1.000 EACH	_____.	_____.
0068	SPV.0060 Special 1008. Tunnel Cleaning - Kilbourn NB Entrance Ramp	1.000 EACH	_____.	_____.
0070	SPV.0060 Special 1009. Tunnel Cleaning - Howell NB Tunnel	1.000 EACH	_____.	_____.
0072	SPV.0060 Special 1010. Tunnel Cleaning - Howell SB Tunnel	1.000 EACH	_____.	_____.
0074	SPV.0060 Special 1011. Lighting System Integrator	1.000 EACH	_____.	_____.
0076	SPV.0060 Special 1012. Control System Preventive and Maintenance	1.000 EACH	_____.	_____.
0078	SPV.0060 Special 1013. Lighting Control System Installation Kilbourn NB Exit Ramp (HL-40-QA)	1.000 EACH	_____.	_____.
0080	SPV.0060 Special 1014. Lighting Control System Installation Kilbourn NB Entrance Ramp (HL-40-KI)	1.000 EACH	_____.	_____.
0082	SPV.0060 Special 1015. Lighting Control System Installation Howell Tunnel (HL-40-HO)	1.000 EACH	_____.	_____.
0084	SPV.0090 Special 1001. Liquid tight Flexible Metallic Conduit 3/4-Inch	6,244.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20231114015 Project(s): 1000-13-76

Federal ID(s): WISC 2023585

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0086	SPV.0090 Special 1002. Rigid Galvanized Steel Conduit 1-Inch Coated	3,326.000 LF	_____.	_____.
0088	SPV.0090 Special 1003. Rigid Galvanized Steel Conduit 1 1/4-Inch Coated	5,733.000 LF	_____.	_____.
0090	654.0102 Concrete Bases Type 2	3.000 EACH	_____.	_____.
0092	654.0230 Concrete Control Cabinet Bases Type L30	1.000 EACH	_____.	_____.
0094	656.0401 Electrical Service Main Lugs Only Meter Pedestal (location) 1000. HL-40-KI	1.000 EACH	_____.	_____.
0096	657.0305 Poles Type 2	3.000 EACH	_____.	_____.
0098	659.2230 Lighting Control Cabinets 240/480 30-Inch	1.000 EACH	_____.	_____.
0100	SPV.0090 Special 1004. Wireway Fiberglass 4-Inch x 4-Inch	1,200.000 LF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

