



Department of Transportation

Rapid City Region Office

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April 14, 2022

ADDENDUM NO. 2

RE: April 19, 2022 Rapid City Region Office Informal Letting
000P-492 & 000N-492, Fall River & Oglala Lakota County, PCN i6nx & i6ny
Lighting Repair

TO WHOM IT MAY CONCERN:

The following addenda to the plans shall be inserted and made part of your proposal for the referenced project.

PROPOSAL:

- Replace DOT-123 with updated DOT-123. The quantity for Type 1 Electrical Junction Box was changed to 42 each.

PLANS:

- Replace sheets 2,4 and 6 with the attached. Junction boxes will be needed at each luminaire location along SD 407.

Sincerely,

John Rehorst
Region Design Engineer

PCN i6nx, 000P-492

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
634E0010	Flagging	80.0	Hour
634E0110	Traffic Control Signs	363.9	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	3	Each
634E0420	Type C Advance Warning Arrow Board	1	Each
635E3700	Roadway Luminaire, LED with Photoelectric Cell	75	Each

PCN i6ny, 000N-492

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
634E0010	Flagging	40.0	Hour
634E0110	Traffic Control Signs	356.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
635E3700	Roadway Luminaire, LED with Photoelectric Cell	39	Each
635E5301	Type 1 Electrical Junction Box	42	Each
635E8120	2" Rigid Conduit, Schedule 40	8,860	Ft
635E8220	2" Rigid Conduit, Schedule 80	915	Ft
635E9014	1/C #4 AWG Copper Wire	30,210	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	2,145	Ft

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT C: WATER SOURCE

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥ 140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (DANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: <http://sdleastwanted.com/maps/default.aspx>

< [South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04](https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04) >

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

UTILITIES

The Contractor will contact the involved utility companies through South Dakota One Call (1-800-781-7474) prior to starting work. It will be the responsibility of the Contractor to coordinate work with the utility owners to avoid damage to existing facilities.

If utilities are identified near the improvement area through the SD One Call Process as required by South Dakota Codified Law 49-7A and Administrative Rule Article 20:25, the Contractor will contact the Project Engineer to determine modifications that will be necessary to avoid utility impacts.

To gain access to electrical services, the Contractor will contact Lacreek Electric (1-800-655-9324) for work in Oglala and Red Cloud School and Nebraska Public Power District (1-877-275-6773) for work in Pine Ridge and along SD 407.

SCOPE OF WORK

Work on this project involves installing conduit to the existing luminaire poles and upgrading electrical junction boxes on SD Hwy 407. Roadway luminaires will be upgraded to LED light source.

GENERAL NOTES

The Contractor will adequately support the luminaire poles during the upgrade process. Any damage caused to the poles, mast arms, pole bases, or any other component of the luminaires will be repaired or replaced by the Contractor at his expense. The Engineer will have final approval of any repairs or replacements that are required.

Any damage caused by the contractor to the surrounding vegetated surface, will be repaired to the satisfaction of the engineer at no cost to the State.

SHOP DRAWING AND CATALOG CUTS SUBMITTALS

The Contractor will submit shop drawings and catalog cuts in accordance with Section 985 of the Specifications.

PDF submittals will be sent to the following email address:

John.Less@state.sd.us

ELECTRICAL JUNCTION BOXES

At the locations noted on the plans, the Contractor will remove existing junction boxes and install new junction boxes. The new junction boxes will be type 1 as noted on the plan sheets.

All costs associated with exposing and modifying the existing conduit, removing the existing junction boxes, salvaging & delivery, and placing the new junction boxes will be incidental to the contract unit price per each for "Type 1 Electrical Junction Box".

LUMINAIRES**Oglala L65772001 – L65772025**

The accepted design for luminaires will provide 1.2 and greater average maintained foot-candles on the roadway AND 1.4 and greater average maintained foot-candles on the pedestrian/bike path and a uniformity ratio (average maintained to minimum maintained foot-candles) of 3:1 and less using the following parameters:

Setback (Roadway):	0 Ft.
Setback (Pedestrian Path):	varies
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area (Roadway):	36 Ft.
Width of Lighted Area (Pedestrian Path):	36 Ft.
Luminaire Cycle Length:	165 Ft.
Configuration:	One-Sided
Mounting Height:	40 Ft.
Lamp:	LED

Red Cloud School L65774001 – L65774006

The accepted design for the roadway luminaires will provide 1.0 and greater average maintained foot-candles and a uniformity ratio (average maintained to minimum maintained foot-candles) of 3:1 and less using the following parameters:

Setback:	2 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	36 Ft.
Luminaire Cycle Length:	380 Ft.
Configuration:	Staggered
Mounting Height:	40 Ft.
Lamp:	LED

Pine Ridge - Hwy 18 L65773001 – L65773016

The accepted design for the roadway luminaires will provide 1.0 and greater average maintained foot-candles and a uniformity ratio (average maintained to minimum maintained foot-candles) of 3:1 and less using the following parameters:

Setback:	0 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	36 Ft.
Luminaire Cycle Length:	400 Ft.
Configuration:	Staggered
Mounting Height:	40 Ft.
Lamp:	LED

Pine Ridge - Hwy 18 L65773017 – L65773022

The accepted design for the roadway luminaires will provide 1.1 and greater average maintained foot-candles and a uniformity ratio (average maintained to minimum maintained foot-candles) of 3:1 and less using the following parameters:

Setback:	0 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	36 Ft.
Luminaire Cycle Length:	180 Ft.
Configuration:	One-Sided
Mounting Height:	40 Ft.
Lamp:	LED

Pine Ridge - SD Hwy 407 L65610001 – L65610034

The lighting design used the following parameters and provides 0.74 and greater average maintained foot-candles and uniformity ratios of 3:1 (average maintained to minimum maintained foot-candles):

Pole Setback:	1 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	44 Ft.
Luminaire Cycle Length:	245 Ft.
Configuration:	One-Sided
Mounting Height:	40 Ft.
Arm Length:	6 Ft.
Light Source:	LED

Pine Ridge - SD Hwy 407 L65610035 – L65610039

The lighting design used the following parameters and provides 0.78 and greater average maintained foot-candles and uniformity ratios of 3:1 (average maintained to minimum maintained foot-candles):

Pole Setback:	8.5 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	26 Ft.
Luminaire Cycle Length:	255 Ft.
Configuration:	One-Sided
Mounting Height:	40 Ft.
Arm Length:	8 Ft.
Light Source:	LED

Maverick Jct. – US Hwy 18 & SD Hwy 79 L27424001 – L27424003

The lighting design used the following parameters and provides 0.8 and greater average maintained foot-candles and uniformity ratios of 3:1 (average maintained to minimum maintained foot-candles):

Pole Setback:	0 Ft.
Lamp Loss Factor (LLF):	0.8
Width of Lighted Area:	60 Ft.
Luminaire Cycle Length:	298 Ft.
Configuration:	Staggered
Mounting Height:	50 Ft.
Arm Length:	8 Ft.
Light Source:	LED

TABLE OF LUMINAIRES

Structure #	Roadway Luminaire LED with Photoelectric Cell Each
City of Pine Ridge, US 18 (PCN i6nx)	
L65773001	1
L65773002	1
L65773003	1
L65773004	1
L65773005	1
L65773006	1
L65773007	1
L65773008	1
L65773009	1
L65773010	1
L65773011	1
L65773012	1
L65773013	1
L65773014	1
L65773015	1
L65773016	1
L65773017	1
L65773018	1
Subtotal:	18
Maverick Junction, US 18 (PCN i6nx)	
L27424001	1
L27424002	1
L27424003	1
Subtotal:	3

Structure #	Roadway Luminaire LED with Photoelectric Cell Each
City of Oglala, US 18 MRM 88.1 to 88.7 (PCN i6nx)	
L65772001	2
L65772002	2
L65772003	2
L65772004	2
L65772005	2
L65772006	2
L65772007	2
L65772008	2
L65772009	2
L65772010	2
L65772011	2
L65772012	2
L65772013	2
L65772014	2
L65772015	2
L65772016	2
L65772017	2
L65772018	2
L65772019	2
L65772020	2
L65772021	2
L65772022	2
L65772023	2
L65772024	1
L65772025	1
Subtotal:	48
US18 near Red Cloud School (PCN i6nx)	
L65774001	1
L65774002	1
L65774003	1
L65774004	1
L65774005	1
L65774006	1
Subtotal:	6
TOTAL (PCN i6nx):	75

Structure #	Pole and Bracket Cable 2/C #10 AWG Ft	Type 1 Electrical Junction Box Each	Roadway Luminaire LED with Photoelectric Cell Each
Pine Ridge, SD 407 (PCN i6ny)			
L65610001	55	1	1
L65610002	55	1	1
L65610003	55	1	1
L65610004	55	1	1
L65610005	55	1	1
L65610006	55	1	1
L65610007	55	1	1
L65610008	55	1	1
L65610009	55	1	1
L65610010	55	1	1
JB1		1	
L65610011	55	1	1
L65610012	55	1	1
L65610013	55	1	1
L65610014	55	1	1
L65610015	55	1	1
L65610016	55	1	1
L65610017	55	1	1
L65610018	55	1	1
L65610019	55	1	1
L65610020	55	1	1
L65610021	55	1	1
L65610022	55	1	1
JB2		1	
L65610023	55	1	1
L65610024	55	1	1
L65610025	55	1	1
L65610026	55	1	1
L65610027	55	1	1
L65610028	55	1	1
L65610029	55	1	1
L65610030	55	1	1
L65610031	55	1	1
JB3		1	
L65610032	55	1	1
L65610033	55	1	1
L65610034	55	1	1
L65610035	55	1	1
L65610036	55	1	1
L65610037	55	1	1
L65610038	55	1	1
L65610039	55	1	1
TOTAL (PCN i6ny):	2,145	42	39