



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

December 7, 2015

ADDENDUM 1 – JOB 3

TO: All prospective bidders on project SU-1-094(170)919, Job No. 3, scheduled for the December 16, 2015 bid opening.

The following plan revisions shall be made:

Plan Revisions:

See attached summary from Adam McGill, PE; Dowl, dated December 2, 2015 for an explanation.

This addendum is to be incorporated into the bidder's proposal for this project.

For CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER
80:dch
Enclosure



December 2, 2015

ADDENDUM 1
Job No. 3

TO: All prospective bidders and suppliers on Projects SU-1-094(170)919, PCN 20591, Job number 3 for the December 16th, 2015 Bid Opening.

Revisions for SU-1-094(170)919:

Remove and Replace Plan Sheets:

- Section 6 Sheet 2

Changes within the enclosed sheets include:

Section 6
Sheet 2:

- Revised notes 772-P02 and 772-P03

This addendum is to be incorporated in bidder's proposal for this project.

Sincerely,

A handwritten signature in blue ink that reads "Adam McGill".

Adam McGill, P.E.
Project Manager

Enclosure(s): Revised Plan Sheets

Project #: SU-1-094(170)919, PCN 20591
CC: Seng Marohl, NDDOT

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-1-094(170)919	6	2

NOTES**SECTION 150**

772-P02 VIDEO DETECTION SYSTEM: The video detection system shall be Autoscope Encore manufactured by Econolite or as approved by the City of Mandan.

A video monitor shall be included in the controller cabinet for viewing the video.

The contractor shall provide a spare video detection camera, video detection processor, and camera interface panel. The Contractor shall be responsible for coordinating with the Jeff Wright, public works director, at 701-667-3240 and delivering the spare camera.

The cost for the video monitor and spare equipment shall be included in the item "Traffic Signals System."

772-P03 CONTROLLER TYPE 1: The controller shall be a NEMA TS-2, Type 1 controller manufactured by Peek. The traffic counting capability of the controller shall be fully operational.

The cost of the Controller Type 1 shall be included in the item "Traffic Signals System."

772-P04 ADDITIONAL CONDUIT: The contractor shall install one additional 2-inch diameter conduit in the new controller foundation. The conduit shall face north. The conduit shall be capped underground and capped in the controller cabinet with a 2" expandable metal plug and labeled which direction the conduit is facing. The cost for the additional conduit shall be included in the item "Traffic Signals System."

772-P05 ACCESSIBLE PEDESTRIAN SIGNALS (APS) PUSHBUTTON AND SIGN: Shall include the features, installation procedures, and be compliant with the following:

A. Features:

1. Rapid tick WALK indication, no more than 2-5dBA above ambient sound
2. Vibrotactile WALK indication
3. Speaker and vibrotactile indication located at pushbutton
4. Pushbutton locator tone
5. Tactile arrow on each device aligned in direction of travel on the crosswalk
6. The APS shall be the wire system

B. Installation Procedures

1. APS should be reachable from the level landing of the curb ramp for the crossing or from a level surface with an accessible path to the ramp (MUTCD Section 4D.08 and Proposed PROWAG).
2. APS should be within 5 feet of the crosswalk line furthest from the center of the intersection and within 10 feet of the curb (MUTCD Section 4E.08).
3. Tactile arrow shall be aligned with parallel to the direction of travel on the crosswalk (MUTCD Section 4E.12, PR).

4. Pushbutton required to be located within reach range for wheelchair users (Proposed PROWAG, R406).

C. Code Compliance:

1. Functionality: MUTCD 2009 – 4E
2. Temperature and Humidity: NEMA TS 2
3. Transient Voltage Protection: NEMA TS 2
4. Transient Suppression: IEC 61000-4-4, IEC 61000-4-5
5. Electronic Noise: FCC Title 47, Part 15, Class A
6. Mechanical Shock and Vibration: Nema TS 2
7. EN4 PBS Enclosure: NEMA 250 – Type 4X
8. Electrical Reliability: NEMA TS 4

772-P06 EMERGENCY VEHICLE PRE-EMPTION: The EVP equipment shall be fully compatible with the other EVP equipment used within the City of Mandan. The confirmation light shall be at the same location on the mast arm as the EVP detector.

772-P07 RED SIGNAL ENFORCEMENT LIGHTS: All signal heads shall be equipped with Red Signal Enforcement lights facing away from oncoming traffic to assist law enforcement in enforcing red phase violations.

Red Signal Enforcement lights shall activate simultaneously with red light phase and be visible downstream from signal head. Red Signal Enforcement lights shall be Blue in color.

772-P08 CONTROLLER INTERCONNECT: The cost of interconnection between traffic controllers shall be included in the item "Traffic Signals System."

772-P09 REMOVE TRAFFIC SIGNAL SYSTEM: The removed Traffic Signal System shall become property of the City of Mandan. The Contractor shall be responsible for coordinating with the Jeff Wright, public works director, at 701-667-3240 and delivering the salvaged Traffic Signal System to the Public Works yard in Mandan.

772-P10 TRAFFIC SIGNAL POLES: New traffic signal poles shall be galvanized steel. Galvanizing shall be in accordance with AASHTO Specification M111 (ASTM A123).

This document was originally issued and sealed by Adam McGill, Registration Number PE-7565, on 12/2/15 and the original document is stored at the North Dakota Department of Transportation