

Department of Transportation

Office of Project Development

700 E Broadway Avenue

Pierre, South Dakota 57501-2586 605/773-3268

FAX: 605/773-2614

February 12, 2016

ADDENDUM NO. 2

**RE: Item #1, February 17, 2016 Letting - NH 0034(160)386, PCN 02R6, Lake County
- Urban Grading, Storm Sewer, Curb & Gutter, Sidewalk, Traffic Signals,
Roadway Lighting, PCC Surfacing**

TO WHOM IT MAY CONCERN:

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

SPECIAL PROVISIONS: NO CHANGE

BID ITEM FILE: *Bidders must log in to retrieve the addendum bid item file that must be loaded into the SDEBS to incorporate the revisions listed here.*

Bid Items were removed:

Bid Item 634E0330 "Temporary Raised Pavement Markers"

PLANS: Please destroy sheets A1, C2, and C3 and replace with the enclosed sheets, dated 2/10/16.

Sheets A1 & C2: Traffic Control – Section C

Bid Item 634E0330 "Temporary Raised Pavement Markers" was removed

Sheet C3: TEMPORARY RAISED PAVEMENT MARKERS note was removed.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Craig Smith, Mitchell Region Engineer
Travis Dressen, Sioux Falls Area Engineer

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0034(160)386	A1	A4

Grading – Section B

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	5 159	Mile
009E3290	Structure Staking	10	Each
009E3300	Three Man Survey Crew	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	1,009	Ft
110E0310	Remove Concrete Curb	26	Ft
110E0320	Remove Concrete Gutter	86	Ft
110E0400	Remove Drop Inlet	47	Each
110E0460	Remove Manhole	12	Each
110E0605	Remove Chain Link Fence	117	Ft
110E1010	Remove Asphalt Concrete Pavement	2,801.0	SqYd
110E1100	Remove Concrete Pavement	38,017.1	SqYd
110E1110	Remove Concrete Approach Pavement	1,793.3	SqYd
110E1120	Remove Concrete Median Pavement	33.2	SqYd
110E1130	Remove Concrete Driveway Pavement	365.1	SqYd
110E1140	Remove Concrete Sidewalk	4,467.9	SqYd
110E1300	Remove Concrete Retaining Wall	1,151.8	Ft
110E5800	Salvage Fence	82	Ft
110E7802	Remove Fence for Reset	30	Ft
120E0010	Unclassified Excavation	34,022	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	26,470	CuYd
250E0020	Incidental Work, Grading	Lump Sum	LS
380E2564	4" Barrier Type Colored Median PCC Pavement	56.4	SqYd
380E3520	6" PCC Approach Pavement	338.5	SqYd
380E3540	8" PCC Approach Pavement	1,268.8	SqYd
380E4060	8.5" PCC Fillet Section	1,273.3	SqYd
450E0103	12" RCP Class 3, Furnish	124	Ft
450E0110	12" RCP, Install	124	Ft
450E0123	18" RCP Class 3, Furnish	2,990	Ft
450E0130	18" RCP, Install	2,990	Ft
450E0143	24" RCP Class 3, Furnish	890	Ft
450E0150	24" RCP, Install	890	Ft
450E0163	30" RCP Class 3, Furnish	280	Ft
450E0170	30" RCP, Install	280	Ft
450E0183	36" RCP Class 3, Furnish	742	Ft
450E0190	36" RCP, Install	742	Ft
450E3033	36" RCP Arch Class 3, Furnish	224	Ft
450E3040	36" RCP Arch, Install	224	Ft
450E3053	48" RCP Arch Class 3, Furnish	376	Ft
450E3060	48" RCP Arch, Install	376	Ft

Grading – Section B

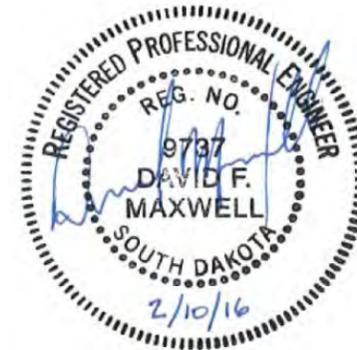
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E3063	54" RCP Arch Class 3, Furnish	1,480	Ft
450E3070	54" RCP Arch, Install	1,480	Ft
450E3073	60" RCP Arch Class 3, Furnish	1,124	Ft
450E3080	60" RCP Arch, Install	1,124	Ft
450E7005	12" High Density Polyethylene Pipe, Furnish	12	Ft
450E7006	12" High Density Polyethylene Pipe, Install	12	Ft
460E0060	Class A45 Concrete, Self Consolidating	3.4	CuYd
460E0300	Breakout Structural Concrete	1.3	CuYd
460E0380	Install Dowel in Concrete	118	Each
462E0100	Class M6 Concrete	325.5	CuYd
470E0020	Pipe Handrail	113.0	Ft
480E0100	Reinforcing Steel	59,905	Lb
480E0200	Epoxy Coated Reinforcing Steel	1,224	Lb
530E0300	Type C Concrete Retaining Wall	695	SqFt
530E0310	Special Type C Concrete Retaining Wall	949	SqFt
530E0460	Gravity Segmental Block Wall	1,700	SqFt
600E0300	Type III Field Laboratory	1	Each
620E4100	Reset Fence	30	Ft
650E0085	Type B68.5 Concrete Curb and Gutter	8,148	Ft
650E0385	Type BL68.5 Concrete Curb and Gutter	374	Ft
650E4685	Type P8.5 Concrete Gutter	1,332	Ft
651E0040	4" Concrete Sidewalk	8,548	SqFt
651E0060	6" Concrete Sidewalk	35,154	SqFt
651E0160	6" Reinforced Concrete Sidewalk	3,881	SqFt
651E0540	4" Colored Concrete Sidewalk	2,896	SqFt
651E7000	Type 1 Detectable Warnings	1,170	SqFt
670E1200	Type B Frame and Grate Assembly	44	Each
670E5340	4' x 11" Precast Concrete Type S Drop Inlet Lid	23	Each
670E5342	4' x 6" Precast Concrete Type S Drop Inlet Lid	25	Each
670E5400	Precast Drop Inlet Collar	44	Each
671E5502	2" Adjusting Ring for Manhole	36	Each
671E6009	Type A9 Manhole Frame and Lid	17	Each
831E0300	Reinforcement Fabric (MSE)	3,961	SqYd
900E0900	Curb Stop	1	Each

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	80.0	Hour
634E0110	Traffic Control Signs	2,086	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	118	Each
634E0420	Type C Advance Warning Arrow Board	6	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	2,500	Ft
634E0565	Remove Pavement Marking, Arrow	11	Each
634E0600	4" Temporary Pavement Marking Tape Type I	26,222	Ft
634E0640	Temporary Pavement Marking	20,252	Ft
634E1002	Detour Signing	499.0	SqFt
634E1020	Temporary Business Signing	126.0	SqFt
634E2000	Longitudinal Pedestrian Barricade	340	Ft
634E2020	Temporary Curb Ramp	2	Each
634E2025	Longitudinal Pedestrian Channelizer	340	Ft
634E2030	Audible Message Device	4	Each

Erosion and Sediment Control – Section D

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E1350	Restoration of Stockpile Site	Lump Sum	LS
110E1690	Remove Sediment	27.5	CuYd
110E1695	Remove Sediment Filter Bag	4,104	Ft
110E1700	Remove Silt Fence	3,074	Ft
230E0010	Placing Topsoil	470	CuYd
730E0206	Type D Permanent Seed Mixture	273	Lb
730E0251	Special Permanent Seed Mixture 1	110	Lb
731E0100	Fertilizing	1,326	Lb
732E0300	Bonded Fiber Matrix	12.5	Ton
734E0042	Soil Stabilizer	1,083.0	SqYd
734E0180	Sediment Filter Bag	4,104	Ft
734E0604	High Flow Silt Fence	3,030	Ft
734E0620	Repair Silt Fence	769	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	47	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	499	Ft
734E3000	Water Pollution Control	Lump Sum	LS
734E5000	Dewatering	24	Hour
900E1320	Construction Entrance	1	Each



INDEX OF SHEETS

A1 and A2 Estimate of Quantities for Sections B, C, D, F, L, M, and S
 A3 and A4 Environmental Commitments

SECTION C TRAFFIC CONTROL ESTIMATES OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	80.0	Hour
634E0110	Traffic Control Signs	2,086	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0285	Type 3 Barricade, 8' Double Sided	118	Each
634E0420	Type C Advance Warning Arrow Board	6	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	2,500	Ft
634E0565	Remove Pavement Marking, Arrow	11	Each
634E0600	4" Temporary Pavement Marking Tape Type I	26,222	Ft
634E0640	Temporary Pavement Marking	20,252	Ft
634E1002	Detour Signing	499.0	SqFt
634E1020	Temporary Business Signing	126.0	SqFt
634E2000	Longitudinal Pedestrian Barricade	340	Ft
634E2020	Temporary Curb Ramp	2	Each
634E2025	Longitudinal Pedestrian Channelizer	340	Ft
634E2030	Audible Message Device	4	Each

SEQUENCE OF OPERATIONS

The following Sequence of Operations, which is graphically depicted by phases in the following sheets, shall be followed unless an alternate Sequence of Operations is submitted in writing a minimum of two weeks prior to the preconstruction meeting and approved by the Engineer.

Phase 1, concurrent work items to include:

- Concrete pavement reconstruction two proposed westbound lanes of SD 34 (NE 2nd Street) from Highway 81 to Washington Avenue
- Storm sewer upgrade, drop inlet removals, manhole removal, sidewalk and curb and gutter
- Water and sanitary sewer modifications / upgrades
- Electrical work (signals/lighting)
- Temporary drainage connections and/or maintenance
- Erosion control as necessary

Phase 2, concurrent work items to include:

- Concrete pavement reconstruction two proposed eastbound lanes of SD 34 (NE 2nd Street) from Highway 81 to Washington Avenue
- Storm sewer upgrade, drop inlet removals, manhole removal, sidewalk and curb and gutter
- Water and sanitary sewer modifications / upgrades
- Temporary drainage connections and/or maintenance
- Electrical work (signals/lighting)
- Erosion control as necessary

Phase 3, concurrent work items to include:

- Concrete pavement reconstruction of center turn lane of SD 34 (NE 2nd Street) from Highway 81 to Washington Avenue
- Electrical work (signals/lighting)
- Erosion control as necessary
- Permanent pavement marking (completed last during this phase)
- Permanent signing (completed last during this phase)

GENERAL MAINTENANCE OF TRAFFIC

Removing, relocating, covering, salvaging and resetting of permanent traffic control devices shall be the responsibility of the Contractor. Cost for this work shall be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost shall be replaced by the Contractor at no cost to the State.

Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage to vegetation, surfacing, driveways, private property and existing signs resulting from such indiscriminate use shall be repaired and/or restored by the Contractor at no expense to the State, and to the satisfaction of the Engineer.

The Contractor shall provide documentation that all breakaway sign supports comply with NCHRP 350 or MASH crashworthy requirements. The Contractor shall provide installation details at the preconstruction meeting for all breakaway sign support assemblies.

The Contractor is permitted to close individual lanes or close 1/2 the roadway to traffic as work conditions require. The roadway is marked as a five lane roadway to provide two through lanes each direction, one 9' outside and one 10' inside with a 10' wide center two way left turn lane. The existing longitudinal joints are spaced approximately 12' apart due to the roadway originally constructed as a four lane undivided roadway. When lane closures or 1/2 roadway closures are to be installed, traffic control devices are to be installed along the original PCCP longitudinal joints spaced approximately 12' apart.

Work shall be conducted to accommodate the following conditions:

1. Traffic in one through lane in each direction shall be maintained at all times.
2. For both the signalized intersections at Egan and Washington, a multi-way stop is anticipated to be used during all three phases of construction.

When a multi-way stop sign condition is used to control traffic, traffic control devices shall be installed to allow only single lane approaches at the intersections.
3. Traffic signal faces shall be bagged prior to the shut down of a traffic signal or when traffic signals are not working.
4. Signs that will be moved frequently to complete the work may be mounted on portable sign supports. The sign height shall comply with the Federal Manual on Uniform Traffic Control Devices, current edition.

The bottom of signs on portable sign supports shall not be less than 7' above a sidewalk or pathway when the sign is installed outside of the curb. The height to the bottom of a secondary sign mounted below another sign may be 1' less than the 7' height requirement for the primary sign. If the bottom of a secondary sign that is mounted below another sign is mounted lower than 7' above a pedestrian sidewalk or pathway the secondary sign shall not project more than 4" into the pedestrian facility.

Portable sign supports shall not be located on sidewalks, bicycle facilities, or areas designated for pedestrian or bicycle traffic.

5. Pedestrian and bicycle traffic will be accommodated.

Existing STOP signs that are removed shall be reset prior to the end of each day's work or an alternate STOP sign provided. A stop sign on portable supports may be used whenever a permanent ground mounted stop sign is removed. Cost for this work shall be incidental to the contract unit price per unit for Traffic Control.

The Contractor shall notify the Madison Police Department (605-256-7531) prior to the closure of and upon reopening of any phase and/or intersection.

Full depth sawing may be required at the intersections and at an offset parallel to the centerline in order to maintain two-way traffic on existing concrete pavement. The cost for this work shall be incidental to the contract unit price per square yard for Remove Concrete Pavement.

Throughout the project, the Contractor must maintain local traffic and access to businesses and residences at all times. Adequate passage and ramping shall be provided. The Contractor shall keep businesses and residents informed of construction sequences in areas which have a direct effect on their access.

The open excavation remaining in the center of the roadway after the construction of the first two phases of work shall be marked by reflectorized drums or tall cones spaced 25' apart and SHOULDER DROP OFF warning signs. A Type 3 Barricade with stripes slanting from upper left to lower right shall be installed at each end of the excavated median facing approaching traffic. Reflectorized drums will mark the open excavation at the median crossings.

Construction signs shall not obscure existing signs and be a minimum of 50' to 100' from any existing signs.

Where phased construction of the intersections is indicated, it should be understood that the pouring sequence shall correspond with the joint layout shown in Section F.

The Contractor will be required to remove and reset individual traffic control devices during the different phases of construction as detailed in these plans.

The Contractor shall comply with Public Rights of Way Accessibility Guidelines (PROWAG).

Some suppliers of PROWAG compliant products are listed below. The list is not all inclusive. There may be other suppliers.

TEMPORARY DETECTABLE WARNING DEVICE

AlertMat
AlertTile®
215 S Water St, Suite 103
Wilmington, NC 28401
(Toll Free) 877-ADA-MATS (877-232-6287)
Phone: 910-762-7220
Fax: 910-762-7115
Email: info@alerttile.com
Internet site: http://www.alerttile.com



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0034(160)386	C3	C60

GENERAL MAINTENANCE OF TRAFFIC (CONTINUED)

RediMat WZ
 Detectable Warning Systems
 8081 Phillips Hwy, Suite 22
 Jacksonville FL 32256
 Phone: 866-999-7452
 Fax: 904-448-4076
 Email: info@detectable-warning.com
 Internet site: <http://detectable-warning.com>

PEDESTRIAN CHANNELIZER

Safety Wall or Safety Rail
 Plastic Safety Systems
 2444 Baldwin Road
 Cleveland, Ohio 44104
 Phone: 800-662-6338
 Fax: 216-231-2702
 Internet site: <http://www.plasticsafety.com>

Pedestrian Access Route (PAR) Barricade
 Davidson's PAR Type II Barricade
 PEXCO
 1600 Birchwood Ave.
 Des Plaines, IL 60018
 Phone: 1-800-411-4090, 847-296-5511
 Fax: 847-296-1752
 Internet Site: <http://www.pexco.com>

LONGITUDINAL PEDESTRIAN BARRICADE

2001M-BM
 The Yodock Wall Company INC.
 900 Patterson Drive
 Bloomsburg, PA 17815
 Freephone: 1-888-4-YODOCK
 Phone: 1-570-380-2856
 FAX: 570-380-2859
 E-mail: contact@yodock.com
 Internet Site: <http://www.yodock.com>

TrafFix Water-Wall
 TrafFix Devices Inc.
 160 Avenida La Pata
 San Clement, CA 92673
 Phone: 949-361-5663
 FAX: 949-361-9205
 E-mail: ycervantes@traffixdevices.com
 Internet site: <http://www.traffixdevices.com>

Pedestrian Bypass Ramp

Access One
 700 Milwaukee Ave N
 Algona, WA 98001-7408
 Email: info@commercialramps.com
 Phone: 1.800.258.8503
 Fax: 1.877.877.6671
 Internet site: <http://commercialramps.com>

CURB CUT RAMPS

Handi-Ramp, Inc.
 510 North Avenue
 Libertyville, IL 60048
 Phone 800-876-7267 or 847-680-7700,
 Fax 847-816-8866
 Internet Site: <http://www.handiramp.com>

On roadways with posted speeds as shown, Type 3 Barricades shall be installed at the end of a lane closure taper as detailed in these plans.

The Contractor shall use Flaggers as shown on Standard Plate 634.23. Advance warning Flagger signs will be required when Flaggers are present and removed when no Flaggers are present.

PEDESTRIAN TRAFFIC ACCOMMODATIONS

The Contractor shall accommodate pedestrian traffic, including those with disabilities. Bicycle traffic shall also be accommodated.

The Contractor shall submit a detailed plan to the Engineer on how pedestrian and bicycle traffic will be accommodated during the various phases of the work at the affected locations. This plan should be in conformance with the details contained in these plans for pedestrian accommodation. The plan may be submitted at the Preconstruction Meeting. The plan shall be submitted no later than two weeks prior to the start of work.

As a part of the Contractor's plan, the following three intersections shall accommodate pedestrians in a north/south direction throughout all phases of construction:

1. Olive Avenue
2. Egan Avenue
3. Washington Avenue

It will be the Contractor's discretion as to how pedestrian traffic will be maintained, as there is a potential for Olive Ave. to be closed to vehicular traffic under the premise that no more than three consecutive intersections may be closed at once. Should this be the case, it will still be required that pedestrians and bicyclist have north/south access through this intersection.

Some options for consideration to accommodate the pedestrian traffic include:

1. The use of various approved traffic control devices to maintain the pedestrians through or past the immediate work area,
2. The detour of pedestrians and bicycles to the opposite side of the street, alternate routes(s) or around a City block,
3. Manned crossing assistance (crossing guards) combined with an accessible path,

Cost to furnish, install, relocate, maintain and remove all devices necessary to accommodate pedestrian traffic such as longitudinal pedestrian barricades, temporary curb ramps, longitudinal pedestrian channelizers, and audible message devices shall be paid for with the respective bid items. The plan bid item quantities are an estimate of each of the traffic control devices. The Contractor will be paid for the actual quantity used.

Cost to furnish, install, relocate, maintain and remove Sidewalk Work Ahead signs, Sidewalk Closed signs, Sidewalk Closed Ahead Cross Here signs, School Crossing Warning signs, Pedestrian Crossing warning signs, Parking Prohibition signs shall be paid for at the contract unit price per square foot for Traffic Control Signs.

INCIDENTS

An incident is an emergency road user occurrence or unplanned event that impedes the flow of traffic such as an accident, hazardous materials spill or similar event.

The Contractor shall set up a meeting prior to start of work to plan and coordinate the response to an incident. The Contractor will invite the Department of Transportation, the South Dakota Highway Patrol, the City of Madison Police Department, and local emergency response entities to the meeting.

The Contractor will be required to flag traffic, relocate signs and adjust traffic control devices as discussed and agreed to at the Incident Management Meeting.

The Contractor shall provide adequate personnel to accomplish the necessary traffic control work as agreed to in the event of an incident.

No additional payment will be made for this work. Costs for this work shall be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

TEMPORARY CROSSWALKS

4" White Temporary Pavement Marking Tape Type 1 shall be used for any crosswalks.

Cost to furnish, install and completely remove the crosswalk(s) shall be included in the contract unit price per foot for 4" Temporary Pavement Marking Tape Type 1.

TEMPORARY STOP LINES

4" White Temporary Pavement Marking Tape-Type 1 shall be used for any stop lines.

Cost to furnish, install and completely remove these stop lines shall be included in the contract unit price per foot for 4" Temporary Pavement Marking Tape Type 1.

