

March 15, 2024

ADDENDUM NO. 2

RE: Item #1, March 20, 2024 Letting - NH-CR 0037(158)126, PCN 06A2, Beadle County - Urban Grading, PCC Surfacing, Storm Sewer, Curb & Gutter, Sidewalk, Lighting, Signals, Crossing Surface

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: PEN AND INK CHANGE the FIELD WORK COMPLETION from AUGUST 1, 2025 to OCTOBER 3, 2025 on the NOTICE TO CONTRACTORS.

Please remove the Index of Special Provisions and replace with attached Index of Special Provisions revised 3/15/24.

Please remove the "Special Provision for Contract Time", dated 2/22/24 and replace with the "Special Provision for Contract Time", dated 3/15/24.

SDEBS BID PROPOSAL: *The electronic bid proposal for this contract has been revised to include the changes associated with this addendum. Bidders must log in to the SDEBS to retrieve and incorporate these changes into their bid.*

Bid Items were added:

Bid Item 450E4759 "18" CMP 16 Gauge, Furnish"

Bid Item 450E4760 "18" CMP, Install"

Quantities for Bid Items were changed:

Bid Item 634E0640 "Temporary Pavement Marking" changed from 540 to 5,460 Ft

PLANS: Please destroy sheets A1, A5, B2, B3, B7, B10, B12, B16, C2, C5, S6, and S7 and replace with the enclosed sheets, dated 3/13/24 and 3/15/24.

Sheets A1 & B2: Bid Item 450E4759 "18" CMP 16 Gauge, Furnish" and Bid Item 450E4760 "18" CMP, Install" were added.

Sheets A1 & C2: Quantities for Bid Item 634E0640 "Temporary Pavement Marking" changed from 540 to 5,460 Ft.

Sheet A5: ENVIRONMENTAL COMMITMENTS reference to time frames to complete work with Campbell Park were revised.

Sheet B3: UTILITIES note was moved from Sheet B2 to Sheet B3.

Sheet B7: NATIONAL HISTORICAL REGISTER SITES note was revised.

Sheet B10: THICKENED SIDEWALK EDGE note was revised.

Sheet B12: TEMPORARY STORM SEWER note was added.

Sheet B16: PIPE QUANITIES table was revised.

Sheet C5: TEMPORARY PAVEMENT MARKING and TEMPORARY STORM SEWER notes were added.

Sheets S6 & S7: Corridor Signing Permanent Sign Installation Table for SD37 in Huron from 9th St. S to 3rd St. N was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Mark Peterson, Aberdeen Region Engineer
Brad Letcher, Huron Area Engineer

REV 3/15/24

INDEX OF SPECIAL PROVISIONS

PROJECT NUMBER(S): NH-CR 0037(158)126 PCN: 06A2

TYPE OF WORK: URBAN GRADING, PCC SURFACING, STORM SEWER, CURB & GUTTER, SIDEWALK, LIGHTING, SIGNALS, CROSSING SURFACE

COUNTY: BEADLE

The following clauses have been prepared subsequent to the Standard Specifications for Roads and Bridges and refer only to the above described improvement, for which the following Proposal is made.

The Contractor's attention is directed to the need for securing from the Department of Environment & Natural Resources, Foss Building, Pierre, South Dakota, permission to remove water from public sources (lakes, rivers, streams, etc.). The Contractor should make his request as early as possible after receiving his contract, and insofar as possible at least 30 days prior to the date that the water is to be used.

Robin Wallum is the official in charge of the Huron Career Center for Beadle County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Special Provision for Contract Time, dated 3/15/24.

Special Provision Regarding Combination Bids, dated 2/7/24.

Special Provision for On-The-Job Training Program, dated 3/10/16.

Special Provision Regarding Right of Entry/Work Limits, dated 2/1/24.

Special Provision for Prosecution and Progress, dated 1/21/21.

Special Provision for Cooperation by Contractor and Department, dated 8/17/17.

Special Provision for Traffic Control Supervisor, dated 1/23/24.

Special Provision Regarding Railroad Insurance Requirements for RCP&E Railroad, dated 11/16/23..

NOTE: The Contractor WILL NOT be granted permission to proceed with any work on Railroad Right-of-Way until he has been notified by the Railroad that the insurance has been approved and the insurances and certificates has been provided to the SDDOT area office.

Special Provision Regarding Working on Railroad Property and Associated Contractor Permits needed for RCP&E Railroad, dated 11/16/23.

Special Provision for PI PCC Pavement Smoothness with 0.2” Blanking Band, dated 11/30/18.

Special Provision for Contractor Furnished Mix Design for PCC Pavement, dated 8/30/18.

Special Provision for Battery Backup System for Traffic Signal, dated 1/23/24.

Special provision for Optical Activated Emergency Vehicle Pre-Emption System, dated 1/23/24.

Special Provision for Contractor Staking with Machine Control Grading Option, dated 1/24/24.

List of Utilities.

Special Provision for Acknowledgment and Certification Regarding Article 3, Section 12 of the South Dakota Constitution, dated 8/24/23.

Special Provision for Buy America, dated 12/6/23.

Special Provision for Liability Insurance, dated 4/21/22.

Special Provision for Responsibility for Damage Claims, dated 4/21/22.

Special Provision for Restriction of Boycott of Israel, dated 1/31/20.

Special Provision for Contractor Administered Preconstruction Meeting, dated 12/18/19.

Fuel Adjustment Affidavit, DOT form 208 dated 7/15.

Standard Title VI Assurance, dated 3/1/16.

Special Provision For Disadvantaged Business Enterprise, dated 8/14/18.

Special Provision For EEO Affirmative Action Requirements on Federal and Federal-Aid Construction Contracts, dated 9/1/97.

Special Provision For Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. October 23, 2023), dated 10/18/23.

Required Contract Provisions Federal-Aid Construction Contracts, Form FHWA 1273 (Rev. 10/23/23).

Special Provision Regarding Minimum Wage on Federal-Aid Projects, dated 10/24/19.

Wage and Hour Division US Department of Labor Washington DC. - US Dept. of Labor Decision Number SD20230032, dated 3/10/23.

Special Provision for Supplemental Specifications to 2015 Standard Specifications for Roads and Bridges, dated 9/7/22.

Special Provision for Price Schedule for Miscellaneous Items, dated 12/6/23.

Special Provision Regarding Storm Water Discharge, dated 5/8/18.

General Permit for Storm Water Discharges Associated with Construction Activities, dated 4/1/18

<https://danr.sd.gov/OfficeOfWater/SurfaceWaterQuality/stormwater/StormWaterConstruction.aspx>

**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION FOR
CONTRACT TIME & BLOCK RENTAL**

**PROJECT NH-CR 0037(158)126, PCN 06A2
BEADLE COUNTY**

MARCH 15, 2024

Field Work Completion

The Contractor will complete the project by the October 3, 2025 field work completion date.

November 15, 2024 Interim Completion Requirement

The Contractor will complete all work including roadway lighting, permanent pavement, driveways, and sidewalks, from Sta. 25+50 to Sta. 44+00 by the November 15, 2024 interim completion date. If the Contractor does not complete all work from Sta. 25+50 to Sta. 44+00 by the interim completion date, the Contractor will meet the hard surface requirement below and restore roadway lighting.

The Contractor may complete Phase 1 (Sta. 44+00 to Sta. 58+84) or Phase 3 (Sta. 9+42 to Sta. 25+50) in 2024 or 2025. If the Contractor begins work on Phase 1 (Sta. 44+00 to Sta. 58+84) or Phase 3 (Sta. 9+42 to Sta. 25+50) in 2024, the Contractor will complete all work in the Phase by the November 15, 2024 interim completion date. If the Contractor does not complete all work in the Phase by the interim completion date, the Contractor meet the hard surface requirement below and restore roadway lighting.

If the Contractor does not complete the work by the interim completion requirement, the Department will assess liquidated damages per working day in accordance with Section 8.8 Table A and will make a disincentive assessment in the amount of \$1000 per working day. A contract item for incentive/disincentive pay is included in the bid schedule for the Department's use in assessing disincentive. The Department will use a negative quantity of days for assessing disincentives. The Department will count working days in accordance with Section 8.6 C.

Hard Surface Requirement

If the Contractor begins any work in 2024, the Contractor will provide a hard surface by the November 15, 2024 interim completion date to any portion of the project where the existing surfacing is disturbed in 2024.

This requirement may include the Contractor placing temporary hard surfacing over any uncompleted portion including, but not limited to, driving lanes, driveways, and sidewalks to tie partially completed work with the existing pavement.

The Department will define hard surfacing as new permanent surfacing, existing permanent surfacing, temporary surfacing, and any combination of new permanent surfacing, existing permanent surfacing, and temporary surfacing. For the hard surfaced roadway requirement, the temporary surfacing must consist of granular material topped with either asphalt concrete or PCC pavement. The Department will provide the surfacing thickness requirements. The temporary surfacing must bring the temporary surface to the final grade elevation and provide proper drainage throughout the project leaving no bumps, dips, or vertical drop offs throughout the project.

The Department will not make payment for any temporary surfacing necessary to meet the hard surfacing requirements. In addition, the Department will not make payment for any permanent surfacing placed under conditions not meeting the specifications (the Department will also consider this temporary surfacing) necessary to meet the hard surfacing requirements. The Department will also not make payment for the removal of any surfacing or the reshaping of any subgrade/granular material necessary due to the Contractor's failure to meet the November 15, 2024 interim completion requirement.

The Contractor will apply pavement markings as required to safely accommodate traffic prior to opening all lanes of Dakota St. to unimpeded traffic. The Department will not make payment for any additional temporary pavement markings, or any additional traffic control required in the spring of 2025 due to the Contractor's failure to meet the November 15, 2024 interim completion date requirement.

The Contractor will provide maintenance of any temporary surfacing through the winter months. This may include temporary stabilization of all exposed soils, maintenance of traffic control devices, filling potholes, asphalt patching, or other work as determined necessary to safely maintain the existing roadway.

The Contractor will not be responsible for snow removal. The Contractor will be responsible for any damage to traffic control items caused by snow removal operations after November 15, 2024 until the Department suspends the project for the winter of 2024/2025. Any damage to traffic control items caused by the Department's snow removal operations from the date the Department suspends the project for the winter of 2024/2025 until the Contractor resumes work in the spring of 2025 will be at the Department's expense.

Campbell Park 150 Calendar Day Count Requirement

The Contractor must complete all work within the limits of Campbell Park within 150 calendar days.

The Department will begin the calendar day count when the Contractor begins any work, including tree removal, within the limits of Campbell Park (Sta. 17+88 to Sta. 23+01) left of centerline. The Department will continue to count calendar days until the Contractor completes all work within the limits of Campbell Park. The Department will count calendar days in accordance with Section 8.6 B.

If the Contractor does not complete the work within the calendar day completion requirement, the Contractor be responsible for all additional costs the Department incurs from the National Park Service due to the Contractor's failure to meet the Campbell Park 150 calendar day count requirement. The Department will not grant time extensions for the Campbell Park 150 calendar day count requirement for any reason.

Block Rental Requirements

- I. **General:** The Department is using the following block rental requirements to minimize the delay and inconvenience to the traveling public caused by roadway closures. The Contractor is encouraged to use innovative construction or staging techniques to minimize the number and duration of roadway closures. The Department will assess a rental charge for each calendar day (or a portion thereof) that a block is closed or obstructed until traffic is fully restored to the roadway, intersecting streets, and approaches; pedestrian traffic is restored to the sidewalk; and all work is complete except Streetscape ,Lighting, and Erosion Control.
- II. **Definitions and Terms:** For the purposes of this Special Provision, the following definitions apply:
 - A. **Calendar day:** A day shown on the calendar, beginning and ending at midnight, including Saturdays, Sundays, and legal holidays.
 - B. **Block Closure:** A block closure is a block or any portion of a block that is not open to public traffic due to the Contractor's operations (measured to the nearest one block). The Department will not consider one-half block closures and will count all closures as at least one block. If the Contractor closes one intersection, the Department will consider the closure as one block. If both intersections at the end of a block are closed, the Department will consider the closure as two blocks. No more than two adjacent intersections may be closed at once.

There are 4 blocks on this project, identified as follows:

5th Street South to 4th Street South
4th Street South to 3rd Street South
3rd Street South to 2nd Street South
2nd Street South to Market Street

Not all blocks are the same length. The block closure rental charge specified below will remain the same regardless of the length of the block.

C. Block Closure User Cost: The daily cost of interference and inconvenience to the road user specified by the Department. The Daily Block User Cost is derived from the total daily cost of interference and inconvenience to the road user for the entire project.

D. Rental Charge: The daily user cost assessed against the contract for a block closure.

E. Block-Closure-Day: The unit of measure for block rental, equivalent to one block of roadway being closed for one calendar day.

III. Block Rental: Block rental will be applied to Phase 2 of this project. The Contractor will be assessed a rental charge for each day a block is closed for construction operations. The daily rental charge will be defined as follows:

Block Closure is based on one block.

Daily Block Rental Charge is computed at a rate of \$1000 per block-closure-day.

The Engineer will count the number, length, and duration of the block closures used for construction.

For the purpose of counting closures occurring at different areas, all closures will be considered as separate closures and block closure rental charges are applied to each individual closure.

The Contractor will comply with the plan notes (Sequence of Operation and Maintenance of Traffic) in regards to block closures and construction operations.

The Contractor will identify each block closure and provide the following information to the Engineer for the work related to each closure:

- (1) a description of the work,
- (2) the length of the block closure,
- (3) the start and finish dates for the work, and
- (4) any special conditions applicable during the performance of the work.

- IV. Preparation of Proposal:** As specified in Section I of this Special Provision, the contract includes a block closure rental provision on a calendar day basis. The bidder must enter a quantity in the proposal for Block Closure Rental Payment & Assessment by the block-closure-day. The bidder will base the quantity for this item on the bidder's estimate of the total number of block-closure-days required to rent block closures necessary to perform the specified work. The quantity will be multiplied by the unit cost (\$1000 per block-closure-day) for block closure rental.

If the Contractor leaves the Block Closure Rental Payment & Assessment quantity blank or inserts a zero or negative quantity, the Department will consider the bid proposal to be non-responsive.

The low bidder will be selected and awarded on the basis of the total dollar amount of all bid items plus the total amount bid for Block Closure Rental Payment & Assessment.

- V. Block Closure Rental Payment and Assessment - Daily Basis:** To determine the block closure rental payments and assessments the following procedure will be used:

The Department will document and tally daily block closure rental charges on each bi-weekly work progress report. This process will continue until the project is completed and the Contractor is no longer closing (renting) blocks.

To determine block closure rental charges, a block closed during any portion of a calendar day will be considered one-block closure day. The block closures will be measured to the nearest one-block per each closure regardless if the closure is moved further down the road or not. Block closure days will be measured in increments of 1 Block Closure Day. Block closure rental charges will be assessed for all in place block closures until the project is completed.

- A. Bonding:** This provision amends Section 3.7 Requirement of Contract Performance Bond, such that the bond will equal the total contract amount less the amount for block closure rental under Block Closure Rental Payment & Assessment. All other bonding requirements are unchanged by this provision.
- B. Payments:** If at the end of the project the cumulative block closure rental charges are less than the original quantity bid for this item, the Department will pay the Contractor the difference between the amount bid and the total block closure rental charges.
- C. Assessments:** If at the end of the project the cumulative block closure rental charges exceed the original quantity bid for this item, the Department will deduct the excess block closure rental charges from moneys due the Contractor for other items of work in the bi-weekly estimate or the final estimate.

- D. Weather:** block closure rental charges will be assessed for all block closures including delays caused by normal weather conditions when the Contractor cannot work and block closures are in effect.
- E. Construction Change Orders:** The Department will increase or decrease the contract item for Block Closure Rental Payment & Assessment in direct proportion to the percentage increase or decrease of the total dollar amount (summation) of all work subject to block closure rental in the contract (Storm Sewer, PCC Pavement, Curb & Gutter, Sidewalk, Approach Pavement, Intersecting Street Pavement, Asphalt Concrete, Preformed Detector Loop, Joint Sealing, Traffic Signals, Roadway Lighting and Pavement Marking). If the Contractor feels the increase to the contract item of Block Closure Rental Payment & Assessment on a monetary basis is insufficient for the increased work involved, the Contractor may submit written information to the Engineer to justify the request. Such information must show how the increased work delays the field work completion of the entire project. The Contractor will submit the written information as soon as possible after performing the increased work. If the information submitted justifies additional Block Closure Rental Payment & Assessment the Engineer will prepare a construction change order increasing the Block Closure Rental Payment & Assessment. If it is determined the increased work does not require additional block rental, the Department will make no increase to the contract item Block Closure Rental Payment & Assessment.

Failure to Complete on Time

The Contractor will complete all work by the field work completion requirement. If the Contractor does not complete all work by the field work completion requirement, the Department will assess liquidated damages in accordance with Section 8.8. The Department will assess liquidated damages for each working day the work (project) is late until the Contractor completes all field work. In the event the Contractor does not complete all field work on time, the Department will count working days in accordance with Section 8.6 C.

The Department will continue to assess block closure rental charges, in accordance with the block rental requirements portion of this provision, for all in place block closures until the Contractor completes all work subject to block rental.

Expected Adverse Weather Days

The Department has provided Attachment 1 for information purposes only as a guide to bidders. This table depicts the typical number of adverse weather days expected for any given month, based on historical records. The Department will consider this project a grading project in Zone 5.

The Department will consider expected adverse weather days cumulative in nature over the time period when the Contractor is actively pursuing completion of the work. The Department will not consider adverse weather days during an extended period of time when the Contractor is not pursuing completion of the work. When considering a time extension for calendar day count or overall completion of the project, the Engineer will compare the total number of expected adverse weather days against the total number of actual adverse weather days for the time period during which the work was being completed.

* * * * *

ATTACHMENT 1

Figure A - Expected Adverse Weather Days for South Dakota

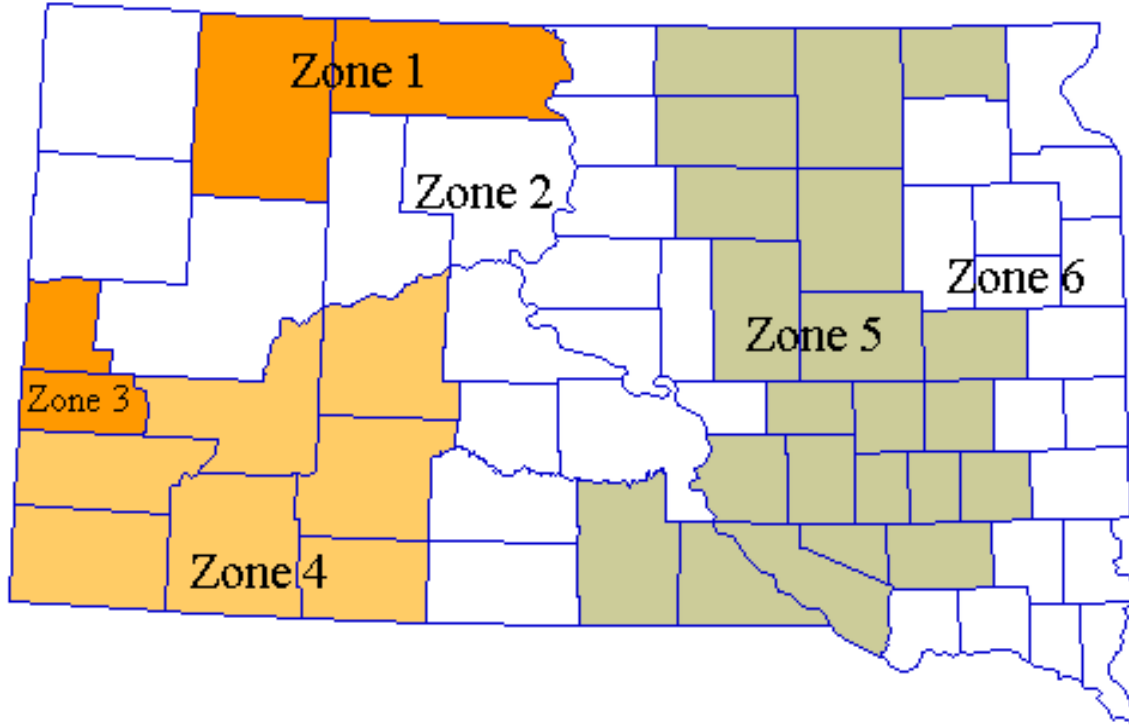


Table 1 - Expected Adverse Weather Days for South Dakota

	Grading Projects						Surfacing and Structural Projects					
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Jan	18	18	16	16	22	24	18	18	15	16	21	23
Feb	19	18	12	14	19	21	19	18	12	14	19	21
Mar	12	10	9	8	11	13	12	10	9	8	10	12
Apr	6	5	8	5	6	6	5	4	6	4	4	4
May	6	6	8	6	6	6	5	5	6	4	4	5
Jun	7	6	7	6	7	8	5	5	5	4	5	6
Jul	5	5	6	5	6	7	4	4	5	3	4	5
Aug	4	4	5	4	5	6	3	3	4	3	4	4
Sep	3	3	4	3	4	5	2	2	3	2	3	4
Oct	4	3	5	3	4	4	3	3	4	2	3	3
Nov	11	9	8	7	10	12	11	9	8	7	10	11
Dec	21	19	15	14	20	22	21	19	15	14	20	22

NOTE: Includes Holidays and Weekends.

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0037(158)126	A1	A6

Plotting Date: 03/15/2024 Revised: 03-15-24 JWF

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	65	Each
009E3230	Grade Staking	4.921	Mile
009E3250	Miscellaneous Staking	0.932	Mile
009E3280	Slope Staking	0.932	Mile
009E3290	Structure Staking	4	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	59	Each
110E0300	Remove Concrete Curb and/or Gutter	1,600	Ft
110E0400	Remove Drop Inlet	45	Each
110E0460	Remove Manhole	6	Each
110E1010	Remove Asphalt Concrete Pavement	3,465.3	SqYd
110E1100	Remove Concrete Pavement	38,575.9	SqYd
110E1120	Remove Concrete Median Pavement	25.5	SqYd
110E1130	Remove Concrete Driveway Pavement	2,679.5	SqYd
110E1140	Remove Concrete Sidewalk	9,578.9	SqYd
110E1300	Remove Concrete Retaining Wall	35.0	Ft
110E1790	Remove Concrete Vault Lid	750	SqFt
110E5720	Salvage Drop Inlet Frame and Grate Assembly	45	Each
120E0010	Unclassified Excavation	34,786	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	16,605	CuYd
120E6100	Water for Embankment	344.6	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
380E2554	4" Barrier Type Median PCC Pavement	20.8	SqYd
380E2558	8" Barrier Type Median PCC Pavement	4.7	SqYd
380E3520	6" PCC Approach Pavement	1,367.8	SqYd
380E3540	8" PCC Approach Pavement	684.1	SqYd
380E4070	9" PCC Fillet Section	1,791.0	SqYd
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
420E0300	Structure Excavation, Retaining Wall	660	CuYd
450E0122	18" RCP Class 2, Furnish	2,830	Ft
450E0130	18" RCP, Install	2,830	Ft
450E0142	24" RCP Class 2, Furnish	1,046	Ft
450E0143	24" RCP Class 3, Furnish	192	Ft
450E0150	24" RCP, Install	1,238	Ft
450E0162	30" RCP Class 2, Furnish	14	Ft
450E0163	30" RCP Class 3, Furnish	36	Ft
450E0170	30" RCP, Install	50	Ft
450E0182	36" RCP Class 2, Furnish	804	Ft
450E0185	36" RCP Class 5, Furnish	78	Ft

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0190	36" RCP, Install	882	Ft
450E0428	36" RCP Bend, Furnish	1	Each
450E0429	36" RCP Bend, Install	1	Each
450E3002	18" RCP Arch Class 2, Furnish	388	Ft
450E3004	18" RCP Arch Class 4, Furnish	536	Ft
450E3010	18" RCP Arch, Install	924	Ft
450E3032	36" RCP Arch Class 2, Furnish	88	Ft
450E3033	36" RCP Arch Class 3, Furnish	72	Ft
450E3040	36" RCP Arch, Install	160	Ft
450E4759	18" CMP 16 Gauge, Furnish	74	Ft
450E4760	18" CMP, Install	74	Ft
450E7648	48" Steel Pipe, Furnish	78	Ft
451E5148	Bore and Jack 48" Pipe	78	Ft
460E0300	Breakout Structural Concrete	52.5	CuYd
460E0380	Install Dowel in Concrete	40	Each
462E0100	Class M6 Concrete	343.1	CuYd
464E0100	Controlled Density Fill	15.5	CuYd
470E0020	Pipe Handrail	42.0	Ft
480E0100	Reinforcing Steel	52,786	Lb
480E0200	Epoxy Coated Reinforcing Steel	335	Lb
600E0300	Type III Field Laboratory	1	Each
634E0380	Tubular Marker	6	Each
650E0089	Modified Type B69 Concrete Curb and Gutter	6,907	Ft
650E0090	Type B69 Concrete Curb and Gutter	653	Ft
650E0385	Type BL68.5 Concrete Curb and Gutter	172	Ft
650E3060	Type B6 Concrete Curb	135	Ft
650E4689	Modified Type P9 Concrete Gutter	880	Ft
650E4690	Type P9 Concrete Gutter	115	Ft
650E6090	9" Concrete Valley Gutter	35	Ft
651E0040	4" Concrete Sidewalk	41,929	SqFt
651E0060	6" Concrete Sidewalk	20,865	SqFt
651E0140	4" Reinforced Concrete Sidewalk	261	SqFt
651E0540	4" Colored Concrete Sidewalk	10,108	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	157	SqFt
651E5000	Sidewalk Drain	34.1	Ft
651E7000	Type 1 Detectable Warnings	842	SqFt
670E1200	Type B Frame and Grate	53	Each
670E2200	Type C Frame and Grate	1	Each
670E3300	Type E Frame and Grate	1	Each
670E5202	Special Frame and Grate	10	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	12	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	2	Each
670E5400	Precast Drop Inlet Collar	64	Each

Section B - Grading

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
671E4548	48" Manhole Cone Section	16.0	Ft
671E5502	2" Adjusting Ring for Manhole	1	Each
671E5504	4" Adjusting Ring for Manhole	2	Each
671E5506	6" Adjusting Ring for Manhole	3	Each
671E6009	Type A9 Manhole Frame and Lid	6	Each
831E0300	Reinforcement Fabric (MSE)	5,111	SqYd
900E6300	Vibration Monitoring & Testing	Lump Sum	LS
998E0100	Railroad Protective Insurance	Lump Sum	LS

Section C - Traffic Control

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	1,785.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	69	Each
634E0330	Temporary Raised Pavement Markers	1,300	Ft
634E0380	Tubular Marker	57	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	1,460	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	96	Ft
634E0640	Temporary Pavement Marking	5,460	Ft
634E1002	Detour and Restriction Signing	1,169.4	SqFt
634E1020	Temporary Business Signing	283.5	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
634E2000	Longitudinal Pedestrian Barricade	7,369	Ft
634E2020	Temporary Curb Ramp	18	Each
634E2025	Longitudinal Pedestrian Barrier	556	Ft

SPECIFICATIONS

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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-CR 0037(158)126	A5	A6

Plotting Date: 03/15/2024 Revised: 03-15-24 JWF

COMMITMENT M: SECTION 4(f)/6(f) RESOURCES

COMMITMENT M1: SECTION 4(f) PROPERTY

A Section 4(f) Evaluation concluded there are no feasible and prudent alternatives to avoiding Section 4(f) property located within the project.

Station	Section 4(f) Property
18+00 to 23+00 L	Campbell Park
9+00 to 26+00 L/R	Campbell Park Historic District

Action Taken/Required:

Prior to the pre-construction meeting the Contractor will notify Chad Babcock, Environmental Manager, 605.773.3721, seven (7) days in advance.

The following measures are required to minimize harm to the above Section 4(f) property:

Campbell Park – The park is located adjacent to and within temporary disturbance work limits for the project from 7th St S to 5th St S Left. Additionally, the site is considered a 6(f) resource described in Commitment M2 below.

See Special Provision for Contract time for completion requirements within Campbell Park.

Access to Campbell Park will be maintained during the entirety of the construction activities.

A new Americans with Disabilities Act (ADA) accessible shared use path connection would be constructed and considered an enhancement to the park.

Areas of Campbell Park disturbed by construction activities will be fully restored and revegetated.

The Contractor is not permitted to stage equipment or materials within Campbell Park. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 4(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 4(f) property.

Campbell Park Historic District – The Campbell Park Historic District is located adjacent to the project from 9th St S to 5th St S and within temporary easements.

The City of Huron's *Dakota Avenue Improvements, 9th Street to Market Street, Huron, South Dakota*, PCN X05T will be let in conjunction with PCN 06A2, and includes plans for the type and location of tree plantings from 9th St S to 5th St S, through the Campbell Park Historic District. Tree planting will be completed according to the schedule detailed in the Landscape Plan on pages L-2.00 through L-2.04 of the above referenced plans for PCN X05T.

The Contractor will remove a two-foot square section of concrete sidewalk preserving the "WPA" stamp, as specified in the Section B Grading Plans. The stamped section of concrete sidewalk is located at or about 578 Dakota Ave S. The City of Huron will take possession, after removal, and store the concrete section for installation by the Huron Historic Preservation Board adjacent to the interpretive signage located inside Campbell Park at the south end of the library.

Station	"WPA" Concrete Sidewalk
21+00 to 23+00 R	Sidewalk at or about 578 Dakota Ave S

The Project will fund the development and installation of two interpretive signs through the Joint Powers Agreement among the City of Huron and SDDOT. The topics of the signs will relate to the history of the Campbell Park Historic District and include the context of trees and WPA constructed sidewalks. The signs will be located inside Campbell Park at the south end of the library. The Huron Historic Preservation Board will develop the new signs. The City of Huron will coordinate development with SHPO and the Huron Historic Preservation Board, and the City of Huron will maintain the new signs. The City of Huron will notify FHWA, SDDOT, and SHPO upon completing the installation of the signage and facilitate a site inspection.

The Project will fund the development and installation of four Campbell Park Historic Markers through the Joint Powers Agreement among the City of Huron and SDDOT. The Huron Historic Preservation Board will be responsible for the development of the markers. The City of Huron will be responsible for the installation and maintenance of the markers. The markers will be affixed to street intersection poles at the junctions of 5th St, 7th St, 8th St, and 9 St with SD37.

COMMITMENT M2: SECTION 6(f) PROPERTY

National Park Service concurrence has been obtained for project impacts to the following resource(s) acquired and developed through a Land and Water Conservation Fund grant.

Station	Section 6(f) Property
18+00 to 23+00 L	Campbell Park

The SDDOT has obtained concurrence from the SDGF&P that the impacts to Campbell Park constitute a temporary non-conforming use. No replacement will be required, there is no conversion of use.

Action Taken/Required:

The Contractor is not permitted to stage equipment or materials within [name of park(s)]. The Contractor will notify the Project Engineer if additional easement is needed to complete the work adjacent to any Section 6(f) property. The Project Engineer will obtain an appropriate course of action from the Environmental Office before proceeding with construction activities that affect any Section 6(f) property.

See Special Provision for Contract time for completion requirements within Campbell Park.

COMMITMENT Q: ARCHAEOLOGICAL COORDINATION

As a result of a Cultural Resources Survey, historic properties have been identified adjacent to the project rights-of-way.

The following historic properties have been identified that require avoidance of standing structure by construction activities:

Table of Historic Properties

Station	Offset (Ft.)	L/R	Environmental Sensitive Site	Action
9+00 to 26+00	Varies	L/R	Campbell Park Historic District Structures	Do Not Disturb
28+61 to 29+99	Varies	R	410 S Dakota Ave	Do Not Disturb
31+54 to 31+79	Varies	R	364 S Dakota Ave	Do Not Disturb
32+04 to 32+54	Varies	R	348 S Dakota Ave	Do Not Disturb
32+54 to 33+04	Varies	R	334-340 S Dakota Ave	Do Not Disturb
33+29 to 33+54	Varies	R	322 S Dakota Ave	Do Not Disturb
35+79 to 36+04	Varies	R	274 S Dakota Ave	Do Not Disturb
36+04 to 36+29	Varies	R	266 S Dakota Ave	Do Not Disturb
38+55 to 38+80	Varies	L	201 S Dakota Ave	Do Not Disturb

Action Taken/Required:

If evidence for cultural resources is uncovered during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will consult with the Archaeological Research Center (ARC), SHPO, and FHWA, to determine the appropriate course of action.

All artifacts, features, or other items of interest uncovered by project construction activities will not be displaced unless the landowner and the SHPO consent to it.

SECTION B ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3220	Reestablish Right-of-Way and Property Corner	65	Each
009E3230	Grade Staking	4.921	Mile
009E3250	Miscellaneous Staking	0.932	Mile
009E3280	Slope Staking	0.932	Mile
009E3290	Structure Staking	4	Each
009E3301	Engineer Directed Surveying/Staking	40.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
009E4330	Project Management, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	59	Each
110E0300	Remove Concrete Curb and/or Gutter	1,600	Ft
110E0400	Remove Drop Inlet	45	Each
110E0460	Remove Manhole	6	Each
110E1010	Remove Asphalt Concrete Pavement	3,465.3	SqYd
110E1100	Remove Concrete Pavement	38,575.9	SqYd
110E1120	Remove Concrete Median Pavement	25.5	SqYd
110E1130	Remove Concrete Driveway Pavement	2,679.5	SqYd
110E1140	Remove Concrete Sidewalk	9,578.9	SqYd
110E1300	Remove Concrete Retaining Wall	35.0	Ft
110E1790	Remove Concrete Vault Lid	750	SqFt
110E5720	Salvage Drop Inlet Frame and Grate Assembly	45	Each
120E0010	Unclassified Excavation	34,786	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	16,605	CuYd
120E6100	Water for Embankment	344.6	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
380E2554	4" Barrier Type Median PCC Pavement	20.8	SqYd
380E2558	8" Barrier Type Median PCC Pavement	4.7	SqYd
380E3520	6" PCC Approach Pavement	1,367.8	SqYd
380E3540	8" PCC Approach Pavement	684.1	SqYd
380E4070	9" PCC Fillet Section	1,791.0	SqYd
410E0030	Structural Steel, Miscellaneous	Lump Sum	LS
420E0300	Structure Excavation, Retaining Wall	660	CuYd
450E0122	18" RCP Class 2, Furnish	2,830	Ft
450E0130	18" RCP, Install	2,830	Ft
450E0142	24" RCP Class 2, Furnish	1,046	Ft
450E0143	24" RCP Class 3, Furnish	192	Ft
450E0150	24" RCP, Install	1,238	Ft
450E0162	30" RCP Class 2, Furnish	14	Ft
450E0163	30" RCP Class 3, Furnish	36	Ft
450E0170	30" RCP, Install	50	Ft
450E0182	36" RCP Class 2, Furnish	804	Ft
450E0185	36" RCP Class 5, Furnish	78	Ft

SECTION B ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0190	36" RCP, Install	882	Ft
450E0428	36" RCP Bend, Furnish	1	Each
450E0429	36" RCP Bend, Install	1	Each
450E3002	18" RCP Arch Class 2, Furnish	388	Ft
450E3004	18" RCP Arch Class 4, Furnish	536	Ft
450E3010	18" RCP Arch, Install	924	Ft
450E3032	36" RCP Arch Class 2, Furnish	88	Ft
450E3033	36" RCP Arch Class 3, Furnish	72	Ft
450E3040	36" RCP Arch, Install	160	Ft
450E4759	18" CMP 16 Gauge, Furnish	74	Ft
450E4760	18" CMP, Install	74	Ft
450E7648	48" Steel Pipe, Furnish	78	Ft
451E5148	Bore and Jack 48" Pipe	78	Ft
460E0300	Breakout Structural Concrete	52.5	CuYd
460E0380	Install Dowel in Concrete	40	Each
462E0100	Class M6 Concrete	343.1	CuYd
464E0100	Controlled Density Fill	15.5	CuYd
470E0020	Pipe Handrail	42.0	Ft
480E0100	Reinforcing Steel	52,786	Lb
480E0200	Epoxy Coated Reinforcing Steel	335	Lb
600E0300	Type III Field Laboratory	1	Each
634E0380	Tubular Marker	6	Each
650E0089	Modified Type B69 Concrete Curb and Gutter	6,907	Ft
650E0090	Type B69 Concrete Curb and Gutter	653	Ft
650E0385	Type BL68.5 Concrete Curb and Gutter	172	Ft
650E3060	Type B6 Concrete Curb	135	Ft
650E4689	Modified Type P9 Concrete Gutter	880	Ft
650E4690	Type P9 Concrete Gutter	115	Ft
650E6090	9" Concrete Valley Gutter	35	Ft
651E0040	4" Concrete Sidewalk	41,929	SqFt
651E0060	6" Concrete Sidewalk	20,865	SqFt
651E0140	4" Reinforced Concrete Sidewalk	261	SqFt
651E0540	4" Colored Concrete Sidewalk	10,108	SqFt
651E0740	4" Reinforced Colored Concrete Sidewalk	157	SqFt
651E5000	Sidewalk Drain	34.1	Ft
651E7000	Type 1 Detectable Warnings	842	SqFt
670E1200	Type B Frame and Grate	53	Each
670E2200	Type C Frame and Grate	1	Each
670E3300	Type E Frame and Grate	1	Each
670E5202	Special Frame and Grate	10	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	12	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	2	Each
670E5400	Precast Drop Inlet Collar	64	Each

SECTION B ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
671E4548	48" Manhole Cone Section	16.0	Ft
671E5502	2" Adjusting Ring for Manhole	1	Each
671E5504	4" Adjusting Ring for Manhole	2	Each
671E5506	6" Adjusting Ring for Manhole	3	Each
671E6009	Type A9 Manhole Frame and Lid	6	Each
831E0300	Reinforcement Fabric (MSE)	5,111	SqYd
900E6300	Vibration Monitoring & Testing	Lump Sum	LS
998E0100	Railroad Protective Insurance	Lump Sum	LS

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 10 gallons of water per cubic yard of Embankment minus Waste.

The estimated cubic yards of excavation and/or embankment required to construct outlet ditches, ditch blocks, and approaches are included in the earthwork balance notes on the profile sheets.

Sections of the roadway different than the typical section(s) will be constructed to the limits shown on the cross sections. If significant changes to the cross sections are necessary during construction, the Engineer will contact the Designer for the proposed change.

A copy of the subsurface investigation for this project is available for review at the Aberdeen Region and Huron Area offices.

TYPE III FIELD LABORATORY

The lab will be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection will be provided with a multi-port wireless router. The internet connection will be a minimum speed of 5 Mbps unless limited by job location and approved by the DOT. Prior to installing the wireless router, the Contractor will submit the wireless router's technical data to the Area Office to check for compatibility with the state's computer equipment. The internet connection is intended for state personnel usage only. The Contractor's personnel are prohibited from using the internet connection unless pre-approved by the Project Engineer. These items will be incidental to the contract unit price per each for "Type III Field Laboratory".

EXCESS MATERIAL FROM PIPE AND DROP INLET INSTALLATION

The excess material which will result from installing drop inlets and pipe culverts which are larger than previously existed or where no such features previously existed is not included in the Waste quantity listed in the Table of Excavation Quantities. Disposal of this excess material will be incidental to the corresponding contract pay items which generated the excess material.

SHRINKAGE FACTOR: Embankment +20%

TABLE OF EXCAVATION QUANTITIES BY BALANCES

Station to	Station	Excavation (CuYd)	* Undercut (CuYd)	Total Excavation (CuYd)	** Waste (CuYd)
9+32	47+05	13897	10086	23983	11355
47+33	58+84	3960	3447	7407	3158
Totals:		17857	13533	31390	14513

* Intersecting street and sidewalk undercut is not included in the earthwork balances.

* The quantities for these items are in the Estimate of Quantities under their respective contract items.

** The quantities for these items are for information only. Waste is excess excavation material to be disposed of by the Contractor at a site approved by the Engineer.

TABLE OF UNCLASSIFIED EXCAVATION

Excavation	(CuYd)
Undercut	17857
Topsoil	324
Total	34786

PROCEDURES FOR DETERMINING UNCLASSIFIED EXCAVATION QUANTITY

When plan quantities are used for payment, the Unclassified Excavation quantity will be used for final payment and the plans quantity of Topsoil listed in the Table of Unclassified Excavation will not be adjusted according to field measurements.

The following paragraphs are general earthwork information and information in regard to computing the Unclassified Excavation quantity when final cross sections are taken in the field:

The Topsoil quantity in the Table of Unclassified Excavation is an estimate. When finaling a project, the total quantity of field measured Topsoil will be used in place of the estimated Topsoil quantity. The quantity of Topsoil from the cuts will be paid for twice as Unclassified Excavation, as it will be in both the Excavation and Topsoil quantities. This will be full compensation for Excavation, which includes necessary undercutting to provide space for placement of topsoil.

The Excavation quantities from individual balances and the Table of Unclassified Excavation have been reduced by the volume of in place surfacing that will be removed and/or salvaged.

The volume of in place Concrete Surfacing removed will NOT be paid for as Unclassified Excavation.

The Excavation quantities from individual balances and the table above have been reduced by the volume of in place concrete pavement that will be removed.

When finaling a project, the estimated quantity of 7,875 cubic yards of Concrete Pavement removed from the cut sections will be subtracted from the Unclassified Excavation quantity for final payment. The quantity of Concrete Pavement from cut sections subtracted from the Unclassified Excavation quantity will be plans quantity and will not be adjusted according to field measurements.

HAUL

There is no defined haul for this project.

UNDERCUTTING

In all cut sections, the earthen subgrade will be undercut 1 foot below the finished subgrade. The undercut will extend from behind the curb to behind the opposite curb. The distance behind the curb will be determined based on the paving operation. Shallow embankment sections, fills less than 1 foot in height measured at the finished subgrade shoulders, will be undercut to assure a minimum 1-foot height of earth embankment for the entire width of the roadbed. The undercut material or other suitable material, as directed by the engineer, will then be replaced and recompact to the density specified for the section being constructed.

Since the existing granular material is not expected to be salvaged, it will be utilized for blending with the subgrade soil. The blended material or other suitable material, as directed by the engineer, will then be replaced and recompact to the density specified for the section being constructed. All material blending and waste necessary to achieve final grade will be incidental to the contract unit price per cubic yard for Unclassified Excavation.

Intersecting streets will be undercut to the same depth as the Mainline roadway out to the limits of asphalt concrete / PCC pavement and curb & gutter placement on the intersecting street. Quantities are included in the "Table of Undercutting".

Sidewalk and colored boulevard sidewalk at the locations listed in the "Table of Undercutting" will be undercut 1.0 foot below the bottom of the granular cushion material for the sidewalk. Limits of this undercut are from the edge of the roadway undercut to the outside edge of the sidewalk. The undercut material or other suitable material will then be replaced and compacted to the density specified for the adjacent roadway undercut as directed by the Engineer. Undercutting for sidewalk will meet the requirements for Undercutting and quantities are included in the "Table of Undercutting".

The Contractor will be responsible to determine the condition of the adjacent building foundations and determine construction methods that will not damage the buildings. The Contractor will be responsible for any damage to the buildings resulting from highway construction activities.

The plan shown quantity will be the basis of payment. However, if there are additional areas of undercut other than what is shown in the plans, the Engineer will direct removal of these areas and the additional areas will be measured according to the Engineer.

TABLE OF UNDERCUTTING QUANTITIES

Station to	Station	Description	Quantity (CuYd)
9+32	47+05	SD37	10086
47+33	58+84	SD37	3447
12+97 L		Int. Street	60
12+97 R		Int. Street	41
17+37 L		Int. Street	32
17+37 R		Int. Street	44
26+09 L		Int. Street	50
26+09 R		Int. Street	109
30+37 L		Int. Street	108
30+39 R		Int. Street	69
34+79 L		Int. Street	209
34+79 R		Int. Street	155
39+19 L		Int. Street	138
39+19 R		Int. Street	69
44+14 L		Int. Street	100
44+14 R		Int. Street	69
49+37 L		Int. Street	47
54+40 L		Int. Street	47
54+40 R		Int. Street	42
58+10 L		Int. Street	51
58+10 R		Int. Street	57
26+29 R	30+19 R	Sidewalk	216
26+29 L	30+17 L	Sidewalk	193
30+58 R	34+52 R	Sidewalk	205
31+54 L	34+51 L	Sidewalk	151
35+06 R	39+00 R	Sidewalk	205
35+06 L	39+00 L	Sidewalk	205
39+39 L	41+61 L	Sidewalk	115
39+39 R	41+85 R	Sidewalk	126
44+66 L	45+46 L	Sidewalk	21
50+05 L	52+09 L	Sidewalk	57
54+74 R	56+25 R	Sidewalk	56
55+75 L	56+25 L	Sidewalk	13
57+47 L	57+76 L	Sidewalk	12
Total:			16605

GENERAL GEOLOGY AND CLASSIFICATION OF EXCAVATION

The project alignment traverses glacial terrain typical of eastern South Dakota. Included within this terrain may be areas of loess, shale, sand, gravel, glacial till and boulder till. As is the case with most glacial terrain, the materials throughout the project can vary greatly in a short distance.

Most of the material encountered should be able to be excavated using conventional methods associated with normal Unclassified Excavation.

UTILITIES

See Section U for information concerning utilities along the project.

CLEAR AND GRUB TREE

The Contractor will remove trees within the grass boulevards (between the existing sidewalk and the back of curb) at the following general locations. There is one tree removal located outside the existing sidewalk at 11+16-49'L. No additional trees outside of the existing sidewalk will be removed without the approval of the Engineer and care should be take to not disturb them. All costs to complete this work will be included in the contract unit price per each for "Clear and Grub Tree".

TABLE OF CLEAR AND GRUB TREE

Street to	Street	L/R	Quantity (Each)
9 th St. South	8 th St. South	L	8
9 th St. South	8 th St. South	R	2
8 th St. South	7 th St. South	L	6
8 th St. South	7 th St. South	R	7
7 th St. South	5 th St. South	L	20
7 th St. South	5 th St. South	R	16
Total:			59

NATIONAL HISTORICAL REGISTER SITES

The Contractor will protect all private property from damage during construction in association with Sections 7.12, 7.14 and 7.15 of the Standard Specifications. The Contractor will provide additional protection as deemed necessary for National Historical Register Sites adjacent to the project (as listed in Section A – Commitment Q) that have been identified as having no adverse effect due to the project. This includes Campbell Park (17+88 to 23+01 Lt) and the Campbell Park Historic District (9+32 to 25+28 Lt & Rt). The locations of these environmental sensitive sites are identified on the plan sheets with the following note: "Do Not Disturb ES Site". See Special Provision for Contract time for completion requirements within Campbell Park.

All additional costs incurred to provide additional protection for National Historical Register Sites will be incidental to the contract lump sum price for "Incidental Work, Grading".

CONTROLLED DENSITY FILL

Controlled density fill will be in conformance with Section 464 of the Specifications.

Storm sewer will be installed near an existing T/F concrete duct. If the separation between the new storm sewer pipe and the duct is less than 6", the Contractor will fill in the void between the two with controlled density fill as directed by the Engineer.

1 cubic yard of controlled density fill is included in the estimated quantities for this work. Additions or reductions to the quantity of controlled density fill will be made at the contract unit price per cubic yard for "Controlled Density Fill".

All costs to plug the pipe and manhole listed in the table below will be included in the contract unit price per cubic yard for "Controlled Density Fill".

TABLE OF CONTROLLED DENSITY FILL

Station	Structure	Quantity (CuYd)
Various	Pipe / Duct	1.00
46+94 to 47+51 L	Pipe	10.00
47+51 L	Manhole	3.02
47+51 to 47+61 L	Pipe	1.45
Total:		15.47

STORM SEWER

Reinforced concrete pipe may be bell and spigot. The pipe sections will be adjoined such that the ends are fully entered and the inner surfaces are reasonably flush and even.

Lift holes in the reinforced concrete pipe will be plugged with grout.

Watertight joints are required for reinforced concrete pipe, drop inlets, manholes, and junction boxes where storm sewers run parallel to and within 10 feet horizontally from existing or proposed water mains.

Watertight joints are required where reinforced concrete pipes, drop inlets, manholes, or junction boxes cross water mains and are separated a distance of 18 inches or less, above or below, the water main.

If watertight joints are required then the watertight joints will extend for a distance of 10 feet beyond the water main. This measurement will be from the sealed concrete joint to the outer most surface of the water main.

Watertight joint seals will conform to the following requirements:

- Reinforced Concrete Pipe (Circular):** Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe will be sealed with a mastic joint seal conforming to the requirements of ASTM C990 and encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.
- Reinforced Concrete Pipe (Arch):** Gasketed pipe will conform to the requirements of ASTM C443 and the gasket will be in conformance with Section 990 of the Specifications. Non-gasketed concrete pipe joints will be sealed with a hydrophilic flexible water stop seal and wrapped with a 1-foot wide strip of fabric above the cradle. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.
- Drop Inlets, Manholes, and Junction Boxes:** Joints will be sealed with one of the following methods:
 - A flexible strip seal placed in the joints conforming to the requirements of ASTM C990 and the perimeter encased with a minimum 2-foot wide by 6-inch thick M6 concrete collar reinforced with 6x6 W2.9 x W2.9 wire mesh.

- A hydrophilic flexible water stop seal placed in the joints and a 1-foot wide strip of fabric wrapped around the perimeter of the pipe. The fabric will conform to the requirements of Section 831 of the Specifications for Type A Drainage Fabric. The hydrophilic flexible water stop will be from the list below.
- A self-adhesive external joint seal wrap. The seal wrap will be from the list below.

Approved List of Self-adhesive Joint Wrap

Product	Manufacturer
Mar Mac Seal Wrap	Mar Mac Construction Products McBee, SC 843-335-5909 www.marmac.com
ConWrap CS-212	Concrete Sealants, Inc. Tipp City, OH 800-332-7325 http://www.conseal.com

Approved List of Hydrophilic Flexible Water Stop Seal:

Product	Manufacturer
Waterstop RX	Cetco Hoffman Estates, IL 800-527-9948 www.cetco.com
Conseal CS-231	Concrete Sealants, Inc. Tipp City, OH 800-332-7325 http://www.conseal.com

Gaskets and seals (mastic, waterstop, and seal wraps) will be installed in accordance with the Manufacturer's recommendations.

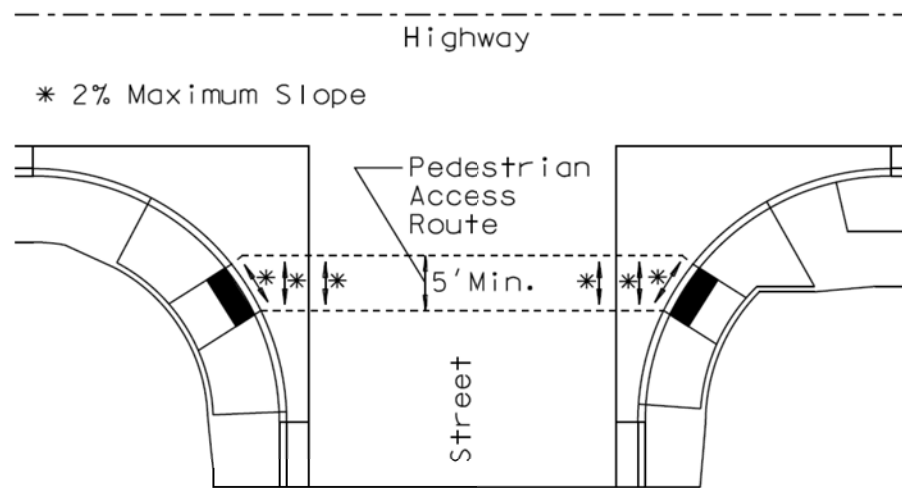
The cost for furnishing and installing all gaskets, mastic joint seal, water stop seal, seal wrap, concrete collars, and for plugging the lift holes will be incidental to the contract unit price per foot for the corresponding pipe contract item.

TABLE OF ACCESS RAMPS

Station to Station	Class M6 Concrete (CuYd)	Epoxy Coated Reinf. Steel (Lb)	Pipe Handrail (Ft)
41+17.17 to 41+36.17 L	3.3	250	33
Totals	3.3	250	33

INTERSECTING STREET AND FILLET SLOPES

The pedestrian access route across intersecting streets between the curb ramps should have a 2% maximum cross slope perpendicular to the direction of travel by pedestrians. This includes the fillets of the intersecting street. The fillets require a 2% maximum slope along the curb ramp opening (along the turning space or bottom of curb ramp). See the following detail. The proposed intersecting street top of curb elevations are set to meet these requirements including additional top of curb elevations (grade breaks) of the fillets. Changes may need to be made during construction to meet these requirements. The intent of the plans is for the intersecting street to have only one break in grade along either the outside or inside edge of the pedestrian access route for streets where grade breaks are needed.



SIDEWALK TO ADJACENT PROPERTY

Sidewalk will be installed to connect new sidewalk along the highway to existing sidewalk on adjacent properties as shown in the plans. The limits of new sidewalk on adjacent properties may need to be adjusted to have 5% maximum longitudinal slope. Sidewalk cross slope should be 1.5%. The widths are typically set to match the existing sidewalk width.

Sidewalk along the highway may need to be raised and boulevard steepened to match the adjacent sidewalk elevation. Stairways and steps are also proposed for this where specified in the plans and also where requested or agreed to by the property owner.

The maximum step height is 6". The step location can be placed where needed to best fit the proposed ground surface but should be at least 2 feet from the highway sidewalk and located on the adjacent property. A single step can be provided without handrails. Multiple steps require stairway and handrail according to plates 460.31 and 470.01 and should only be provided where specified.

SIDEWALK ADJACENT TO BUILDINGS

When placing sidewalk adjacent to buildings, the elevation of the new sidewalk may be either higher or lower than the existing sidewalk. This may require that modification be made to building exteriors such as: removal of siding, installation of flashing, installation of siding, or other necessary modifications. Building modifications will be approved by the Engineer. All costs associated with modifying the buildings for sidewalk placement will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk contract item.

Sidewalk placed adjacent to building doorways should nearly match the doorway threshold and will have a maximum 1/4-inch vertical rise at the doorway threshold. A sidewalk turning space will be provided at building doorways in accordance with the plans. Sidewalk should ramp or slope down from the turning space to the typical sidewalk as specified in the plans. Additional sidewalk ramp or slope locations may be required. In the plans, the locations without ramps were assumed by the design Engineer as sites that slopes of less than 5 percent could be used from the turning space to the typical sidewalk. The limits of the ramp and steepened sidewalk shown in the plans may need to be adjusted to the actual doorway location and to meet sidewalk slope requirements as specified in the plans.

Minimum width of the 2% maximum slope sidewalk is 5'. It is typically an 8' width for this project.

Maximum ramp slope to / from doorways is 8.3%. For this project it is anticipated that most or all locations will be able to achieve a slope of 5% or less to meet requirements for a standard longitudinal sidewalk grade.

STEEPENED BOULEVARD SIDEWALK

Steepened boulevard sidewalk has a cross slope greater than 2%. Steepened sidewalk is provided between the back of curb and the minimum 5 ft wide pedestrian access route sidewalk raised to meet existing building doorways, sidewalks or other features. See the SIDEWALK ADJACENT TO BUILDING DETAIL. The design elevations have been set to provide a maximum boulevard slope of 10% from 5th St. South to 3rd St. North. The locations and limits may need to be adjusted during construction. All costs associated with steepened sidewalk will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid item.

THICKENED SIDEWALK EDGE

The Contractor will construct a thickened sidewalk edge as detailed in the PCN X05T plans. The thickened sidewalk edge is adjacent to brick paver installations between 5th St. South and Market St. This requirement also applies to locations where 6" PCC Approach Pavement is adjacent to brick pavers. All costs associated with the thickened sidewalk edge will be incidental to the contract unit price per square foot for the corresponding concrete sidewalk bid items and incidental to the contract unit price per square yard for 6" PCC Approach Pavement.

SIDEWALK ADJACENT TO BUILDING DETAIL

Maximum slopes are shown in the following drawing. As shown in Standard Plate 651.75, the typical sidewalk cross slope is designed to be 1.5%. Ramps are typically designed to have a slope of 7.5%.

SIDEWALK ADJACENT TO BUILDING DETAIL

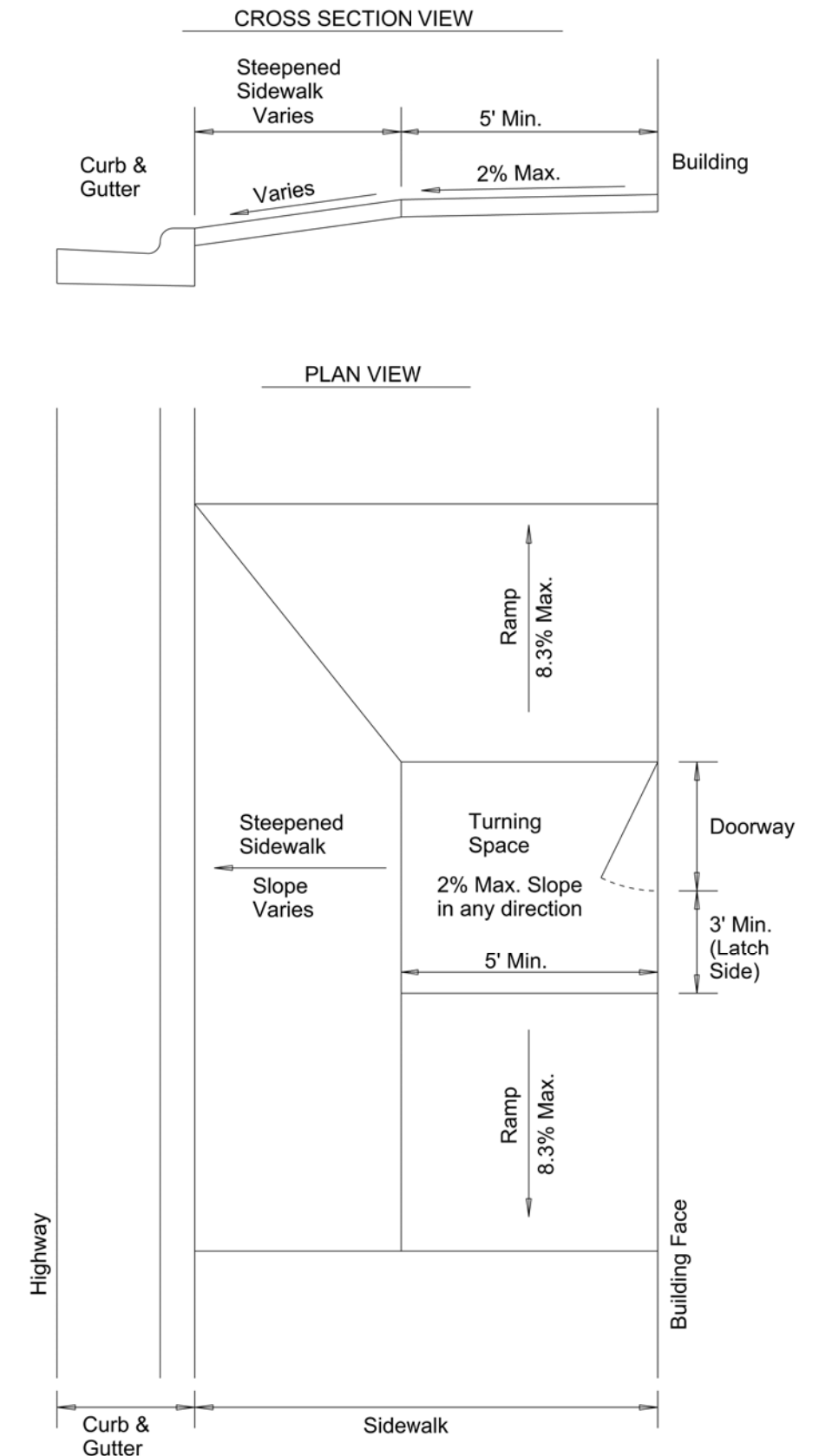


TABLE OF CONCRETE STAIRWAYS

Station	L/R	Top Landing Elev.	Bottom Landing Elev.	No. of Steps (w)	Class M6 Concrete (CuYd)	Epoxy Coated Reinf. Steel (Lb)	Pipe Handrail (Ft)
11+22.8	L	1280.1	1279.3	1	1.1	85	9.0
Totals:					1.1	85	9.0

* There is an estimated 2.4 cubic yards of Structure Excavation (Misc.). The quantity for structure excavation is for informational purposes only. Payment for all work necessary for structure excavation will be incidental to the various contract unit prices for the items listed in the above table.

TABLE OF CLASS M6 CONCRETE, REINFORCING STEEL & HANDRAIL

Item	Class M6 Concrete (CuYd)	Reinforcing Steel (Lb)	Epoxy Coated Reinf. Steel (Lb)	Pipe Handrail (Ft)
Drop Inlets	137.2	25398		
Junction Boxes	31.5	6118		
Access Ramp	3.3		250	33
Concrete Stairway	1.1		85	9
Vault Removal and Retaining Walls	170.0	21270		
Totals:				
	343.1	52786	335	42

PUBLIC LANDS SURVEY SYSTEM, RIGHT OF WAY, AND PROPERTY CORNERS

The Contractor will have a Land Surveyor, licensed in the State of South Dakota, to set, reestablish or verify public land survey system (PLSS) corners, right of way (ROW) corners, and property corners as directed by the appropriate SDDOT Region Land Surveyor. It is estimated that 0 PLSS corners and 65 ROW and property corners will be set, reestablished, or verified for this project. The Contractor's Land Surveyor, under the direction of the Region Land Surveyor, will set, reestablish, or verify all corner monuments after surfacing and fencing operations are completed in accordance with the PUBLIC LANDS SURVEY SYSTEM CORNERS section and the RIGHT OF WAY AND PROPERTY CORNERS section in Chapter 8 of the SDDOT Survey Manual.

< <https://dot.sd.gov/doing-business/engineering/design-services/surveyors> >

All costs associated with furnishing and installing PLSS caps, rebar, and all other materials associated with setting, reestablishing, or verifying PLSS, ROW corners, and property corners in accordance with the SDDOT Survey Manual will be incidental to the contract unit price per each for "Reestablish Public Land Survey System Corner" and/or "Reestablish Right-of-Way and Property Corner".

SPRINKLER SYSTEMS

Existing lawn sprinklers are not shown on the construction plan sheets. The approximate locations are shown in the table below. It is likely that not all sprinkler locations are known and additional sprinkler systems may be encountered.

Prior to removal of sprinkler systems located within the highway ROW that are encountered during construction, the Contractor will provide adjacent landowners 7 days of notice. The Contractor will take care to not damage lines outside the highway ROW that are to remain in place and will be responsible to repair any damage that occurs.

All costs to remove sprinkler systems that are left in place within the highway ROW will be incidental to the various contract items.

TABLE OF SPRINKLER SYSTEMS

Station	to	Station	L/R
9+29		10+66	L
9+32		9+92	R
17+87		19+90	R
19+90		20+52	R
20+52		21+03	R
21+66		22+66	R
23+79		25+28	R
32+28		34+29	L

GRANULAR CUSHION THICKNESS FOR SIDEWALK

The thickness of granular cushion for sidewalk will be 4" for the 8' wide sidewalk from Sta. 9+48 to 25+77 Lt and from Sta.44+39 to 54+10 Rt. All costs to provide this additional cushion material will be included in the contract unit price per square foot for "6" Concrete Sidewalk".

TEMPORARY STORM SEWER

If the Contractor does not construct Phase 1 (See Section C) during the first construction year, a temporary storm sewer connection will be necessary at the Market St. intersection. The temporary 18" CMP connection will be from the new Type S drop inlet located at 43+96.66-49.20' Lt to the existing drop inlet located at 44+71-34' Lt. All costs to provide this temporary storm sewer connection including connections to each of the drop inlets will be included in the contract unit price per foot for "18" CMP 16 Gauge, Furnish" and "18" CMP, Install".

9" CONCRETE VALLEY GUTTER

The Contractor will install 9" Concrete Valley Gutter at 54+22.95 to 54+57.72 Left. The flowline of the gutter will be at 39' Left. The left (west) side will be 2' wide and the right (east) side will be 5' wide.

All costs to construct this wider than standard gutter will be incidental to the contract unit price per foot for "9" Concrete Valley Gutter".

TABLE OF MANHOLE REMOVAL

Station	L/R	Quantity (Each)
30+47	L	1
34+56	R	1
39+20	CL	1
39+28	L	1
54+30	L	1
54+30	R	1
Total:		6

TABLE OF CONCRETE RETAINING WALL REMOVAL

Station	to	Station	Quantity (Ft)
11+56-50'L		11+56-58'L	8.0
11+56-50'L		11+83-50'L	27.0
			35.0

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SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100.0	Hour
634E0110	Traffic Control Signs	1,785.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0135	Traffic Control Supervisor	Lump Sum	LS
634E0275	Type 3 Barricade	69	Each
634E0330	Temporary Raised Pavement Markers	1,300	Ft
634E0380	Tubular Marker	57	Each
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	1,460	Ft
634E0600	4" Temporary Pavement Marking Tape Type I	96	Ft
634E0640	Temporary Pavement Marking	5,460	Ft
634E1002	Detour and Restriction Signing	1,169.4	SqFt
634E1020	Temporary Business Signing	283.5	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	2	Each
634E2000	Longitudinal Pedestrian Barricade	7,369	Ft
634E2020	Temporary Curb Ramp	18	Each
634E2025	Longitudinal Pedestrian Barrier	556	Ft

replacing storm sewer, concrete surfacing, curb and gutter, sidewalk, roadway lighting, and restoration work behind the sidewalk. Work in this phase will also include tying the new storm sewer into the existing storm sewer system in all directions to maintain drainage on the project at all times.

During Phase 1 construction, the roadway will be open to traffic, and through traffic will be maintained as two-way traffic as noted on details throughout the plans. The Contractor will complete all work in the SB Lanes first while maintaining two-way traffic in the existing NB Lanes and then transfer traffic to the newly constructed SB Lanes while completing all work in the NB Lanes.

Streets required to be open for two-way traffic as referenced in the Special Provision for Contract Time will require concrete blockouts and may require temporary widening with granular material. The method for maintaining two-way traffic at these locations must be approved by the Engineer. Regardless of the method, all work must be contained within the Right of Way or Easement for the project.

Access will be maintained to the businesses on the right and left sides of the roadway, to the maximum extent possible during construction. All arrangements for maintaining access will be completed by the Contractor.

Prior to closing SD 37 / Dakota Avenue for Phase II work, the Contractor will complete all final surfacing work at the intersection of Market Street and SD 37 / Dakota Avenue to provide safe and efficient use of the detour route as approved by the Engineer.

Phase 2: Phase 2 will consist of all work from approximately Sta. 25+50 to Sta. 43+50. Phase 2 will consist of pavement removal, removing and replacing storm sewer, concrete surfacing, curb and gutter, sidewalk, traffic signals, roadway lighting, and restoration work behind the sidewalk. Work in this phase will also include tying the new storm sewer into the existing storm sewer system in all directions to maintain drainage on the project at all times.

During Phase 2 construction, the roadway will be closed to traffic, and through traffic will be fully detoured as shown on the local detour layouts found within the plans.

Phase 3: Phase 3 will consist of all work from approximately Sta. 9+32 to Sta. 25+50. Phase 3 will consist of pavement removal, removing and replacing storm sewer, concrete surfacing, curb and gutter, sidewalk, traffic signals, roadway lighting, and restoration work behind the sidewalk. Work in this phase will also include tying the new storm sewer into the existing storm sewer system in all directions to maintain drainage on the project at all times.

During Phase 3 construction, the roadway will be closed to traffic, and through traffic will be fully detoured as shown on the local detour layouts found within the plans.

Access will be maintained at all times to intersections, homes and businesses. Concrete blockouts will be required at locations where access cannot be maintained in any other way. Businesses with multiple accesses may be accommodated by closing one access at a time. The Contractor will maintain communication with each landowner or business operator and handle all arrangements to accommodate reasonable access.

Restoration work behind sidewalk will include shaping and placement of permanent seed and/or sod (if seasonal limits allow). Restoration work is required to be completed prior to moving on to any subsequent phase of the project.

All permanent pavement markings, traffic signals, and permanent signing will be installed prior to reopening portions of SD 37 to normal traffic.

The Contractor will be required to maintain storm and sanitary drainage throughout the duration of the project. The Contractor will ensure adequate drainage at various storm water tie in points along the project prior to nightfall.

The project will be open full width throughout its length for all traffic and turning movements prior to winter. Should there be any un-surfaced areas either on the project property, street approaches or accesses which are started and not completed by that time, the Contractor will be responsible at his or her expense for providing at least 6 inches of Base Course and 4 inches of asphalt concrete for winter use and for its removal in the spring when the project work is completed.

TRAFFIC CONTROL

The Contractor will keep all businesses and residents informed of the progression and prosecution of work in areas that have a direct effect on their access.

Construction operations will be allowed during daylight hours only.

The Contractor will conduct weekly meetings at a designated place on or adjacent to the project. Meetings will be open to the public. Public announcements will be made so all affected parties are aware of this meeting. The Contractor will be responsible for the public announcements however, the Engineer will approve the public announcements prior to submitting to the media. The meetings must be conducted by the Contractor's Superintendent or management person. The purpose of these meetings will be to:

- Present the work schedule for at least the following week
- Coordinate work activities with subcontractors, city and utility companies
- Coordinate traffic control
- Coordinate public and private access
- Inform businesses, residents, and public of project status

All costs related to weekly meetings and public announcements will be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

The Contractor will provide the City Police Department, City Fire Department, Ambulance Service, County Sheriff's Office, and the Huron Hospital Emergency Department a detailed map showing roadway segment construction work limits and the most appropriate routing for emergency vehicles. Updated maps will be provided to the departments 24 hours prior to any changes in work limits. Changes in work limits will not be allowed until the 24 hour advance notice requirement has been satisfied.

SEQUENCE OF OPERATIONS

Work will consist of pavement removal, grading, storm sewer, PCC paving, asphalt concrete resurfacing, traffic signals, roadway lighting, pavement markings, permanent signing, and erosion control.

SD 37 traffic will be detoured off the project during Phase 2 and 3 of the project and two-way traffic will be maintained on Phase 1 of the project.

Work will progress in phases.

Traffic Control devices will be appropriately installed prior to any construction activity in any of the Phases.

Refer to Proposal for Special Provision for Contract Time.

Details in the plans are based on the below requirements for construction of the project. Details depict an anticipated order of construction. Alternatives to the details shown will be proposed by the Contractor prior to the preconstruction meeting for review by the Area Engineer.

The work will proceed in the following order:

Phase 1: Phase 1 will consist of work from approximately Sta. 43+50 to Sta. 58+84. Phase 1 will consist of pavement removal, removing and

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CONTRACTOR FURNISHED PORTABLE CHANGEABLE MESSAGE SIGN

One week prior to starting work affecting the traveling public, portable changeable message signs (PCMS) will be installed at locations directed by the Engineer to notify drivers of the upcoming construction. The Contractor will program the portable changeable message signs with the following message:

ROAD WORK
STARTS (Date)

When work begins that will affect traffic patterns, the Contractor will re-program the PCMS with the messages as directed by the Engineer.

The Engineer will coordinate with the Contractor for changes to the messages displayed on the sign.

TEMPORARY PAVEMENT MARKING

In the event that permanent pavement markings are not completed prior to the application temperature limitations, the Contractor will provide temporary pavement markings as directed by the Engineer. An estimated 5,460 feet of temporary pavement markings have been included in the plans in the event permanent pavement markings are not completed due to the application temperature limitations.

TEMPORARY STORM SEWER

If the Contractor chooses not to complete work from Market Street to 3rd Avenue North in 2024, a temporary storm sewer connection will need to be made. See Section B notes for temporary work that will need to be completed by the Contractor.

PLOT SCALE - 1:200

PLOTTED FROM - TRHJUNT06

PLOT NAME - 1

FILE - ... \SECTION C DESIGN\BORDER-3D.DGN

Revised 03/13/2024 AT

Corridor Signing Permanent Sign Installation Table for SD 37 in Huron from 9th St. S to 3rd St. N

Station (Ft)	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum Sign, Nonremovable Copy High Intensity (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SqFt)	2.0"x2.0" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	Remove Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
37+22	Lt.	2 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5				1	N	Light Pole	Replace Existing Sign with New Sign on Light Pole
37+36	Rt.	2 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5		7	1	1	S	Telespar	Replace Existing Sign with New Sign on New Post
38+93	Lt.	Stop	R1-1	30	30		5.2	12	1	1	W	Telespar	Replace Existing Sign with New Sign on New Post.
		Dakota Ave (Two Signs)	D3-1	36	12	6.0	1			E/W			
		2 nd St SW (Two Signs)	D3-1	30	12	5.0	1			N/S			
39+47	Rt.	Stop	R1-1	30	30		5.2	12	1	1	E	Telespar	Replace Existing Sign with New Sign on New Post.
		Dakota Ave (Two Signs)	D3-1	36	12	6.0	1			E/W			
		2 nd St SE (Two Signs)	D3-1	30	12	5.0	1			N/S			
39+84	Lt.	Reserved Parking Handicapped Symbol State Permit or License Required \$100 Minimum Fine and Class 2 Misdemeanor for Violators		12	24	2.0		8	1		N	Telespar	Place New Signs on New Post
40+07	Rt.	Reserved Parking Handicapped Symbol State Permit or License Required \$100 Minimum Fine and Class 2 Misdemeanor for Violators		12	24	2.0		8	1		S	Telespar	Place New Signs on New Post
40+40	Rt.	3 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5				1	S	Telespar	Replace Existing Sign with New Sign on Light Pole
41+16	Rt.	3 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5				1	S	Light Pole	Replace Existing Sign with New Sign on Light Pole
41+50	Lt.	3 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5		7	1	1	N	Light Pole	Replace Existing Sign with New Sign on Light Pole
42+28	Lt.	3 HR PARKING 8 AM TO 5 PM	R7-108	12	18	1.5		7	1	1	N	Light Pole	Replace Existing Sign with New Sign on New Post
43+72	Mast Arm	MARKET ST	D3-1	36	12	3.0				1	N	Mast Arm	Replace Existing Signs with New Signs on Traffic Signal Mastarm
44+12	Rt.	DAKOTA AVE	D3-1	36	12	3.0				1	W	Mast Arm	Replace Existing Signs with New Signs on Traffic Signal Mastarm
44+37	Mast Arm	MARKET ST	D3-1	36	12	3.0				1	S	Mast Arm	Replace Existing Signs with New Signs on Traffic Signal Mastarm
44+38	Lt.	DAKOTA AVE	D3-1	36	12	3.0				1	E	Mast Arm	Replace Existing Signs with New Signs on Traffic Signal Mastarm
44+99	Lt.	Reserved Parking Handicapped Symbol State Permit or License Required \$100 Minimum Fine and Class 2 Misdemeanor for Violators		12	24	2.0		8	1		N	Telespar	Place New Signs on New Post
45+04	Rt.	Railroad Advance Warning	W10-1	36	36		7.1	11	1	1	S	Telespar	Replace Existing Sign with New Sign on New Post
45+50	Rt.	Center Turn Lane	R3-9b	24	36	6.0		12	1	1	S	Light Pole	Replace Existing Sign with New Sign on New Post
45+88	Lt.	Right Lane Must Turn Right	R3-7R	36	30	7.5		12	1		S	None	New Sign on New Post
47+84	Rt.	Speed Limit 30 MPH	R2-1	24	30	5.0				1	S	Light Pole	Replace Existing Signs with New Signs on Light Pole
		No Parking Symbol	R8-3A	24	24	4.0			S				

Revised 03/13/2024 AT

Corridor Signing Permanent Sign Installation Table for SD 37 in Huron from 9th St. S to 3rd St. N

Station (Ft)	Side of Road	Description	Sign Code	Width (Inches)	Height (Inches)	Flat Aluminum Sign, Nonremovable Copy High Intensity (SqFt)	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity (SqFt)	2.0"x2.0" Perforated Tube Post 12 Ga. (Ft)	(N.A.B.I.) Square Tube Anchor Sleeve (Each)	Remove Traffic Sign (Each)	Direction Sign Faces	Current Type of Post	Remarks
49+29	Lt.	Stop	R1-1	30	30		5.2	12	1	1	W	Telespar	Replace Existing Sign with New Sign on New Post.
		Dakota Ave (Two Signs)	D3-1	36	12	6.0				1	E/W		
		Commercial St (Two Signs)	D3-1	48	12	8.0				1	N/S		
49+88	Lt.	Reserved Parking Handicapped Symbol State Permit or License Required \$100 Minimum Fine and Class 2 Misdemeanor for Violators		12	24	2.0					N	Light Pole	Place New Signs on Light Pole
50+36	Lt.	Railroad Advance Warning	W10-1	36	36		7.1	11	1	1	N	Telespar	Replace Existing Sign at 127.00 + 0.530 with New Sign on New Post
51+70	Rt.	Center Turn Lane	R3-9b	24	36	6.0					S		Replace Existing Sign with New Sign on Light Pole
53+34	Lt.	Center Turn Lane	R3-9b	24	36	6.0				1	N	Light Pole	Replace Existing Sign with New Sign on Light Pole
54+17	Lt.	Stop	R1-1	30	30		5.2	12	1	1	W	Telespar	Replace Existing Sign with New Sign on New Post.
		Dakota Ave (Two Signs)	D3-1	36	12	6.0				1	E/W		
		2 nd St NW (Two Signs)	D3-1	30	12	5.0				1	N/S		
54+60	Rt.	Stop	R1-1	30	30		5.2	12	1	1	E	Telespar	Replace Existing Sign with New Sign on New Post.
		Dakota Ave (Two Signs)	D3-1	36	12	6.0				1	E/W		
		2 nd St NE (Two Signs)	D3-1	30	12	5.0				1	N/S		
55+04	Rt.	Reserved Parking Handicapped Symbol State Permit or License Required \$100 Minimum Fine and Class 2 Misdemeanor for Violators		12	24	2.0		8	1		S	Telespar	Place New Signs on New Post
55+08	Rt.	Junction	M2-1	21	15	2.2		1	1	1	S	Light Pole	Replace Existing Signs with New Signs on New Post
		US 14	M1-4	24	24	4.0				1			
56+87	Lt.	Speed Limit 30 MPH	R2-1	24	30	5.0					N		Replace Existing Sign with New Signs on Light Pole
57+47	Rt.	^ To US 212 <-- Miller De Smet -->	D1-3	60	42	17.5		26	2	1	S	Telespar	Place Signs with New Signs on New Post
57+69	Lt.	Begin Plaque	R3-9cP	30	12	2.5		12	1		N	Telespar	Place New Signs on New Post
		Center Turn Lane	R3-9b	24	36	6.0							
57+87	Lt.	Stop	R1-1	30	30		5.2	12	1	1	W	Telespar	Replace Existing Signs with New Signs on New Post
		Dakota Ave (Two Signs)	D3-1	36	12	6.0				1	E/W		
		3 rd St NW (Two Signs)	D3-1	30	12	5.0				1	N/S		
58+33	Rt.	Stop	R1-1	30	30		5.2	12	1	1	E	Telespar	Replace Existing Signs with New Signs on New Post
		Dakota Ave (Two Signs)	D3-1	36	12	6.0				1	E/W		
		3 rd St NE (Two Signs)	D3-1	30	12	5.0				1	N/S		
58+47	Rt.	No Parking Symbol	R8-3A	24	24	4.0		7	1	1	S	Light Pole	Replace Existing Sign with New Sign on New Post
						TOTAL	398.4	71.4	332.0	33	95		