



Department of Transportation

Office of Project Development

700 E Broadway Avenue

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

FAX: 605/773-2614

February 27, 2015

ADDENDUM NO. 1

**RE: Item #1, March 4, 2015 Letting - P 018P(02)13, P 0471(08)27, PCN 02S8, 039Z,
Fall River County - Replace Structures (336' & 130' Prestressed Girder
Bridges) & Approach Grading**

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: Please remove the Notice to Contractors and replace with the attached Notice to Contractors revised 2/27/15.

Please remove the Special Provisions checklist and replace with the attached Special Provisions checklist revised 2/27/15.

Please add the "Special Provision for Prosecution and Progress" dated 1/20/15 before the "Special Provision Regarding Railroad Insurance Requirements" dated 1/7/15.

Please remove the "Special Provision Regarding Restricted Work at Drainage Crossings or Wetlands" dated 2/3/15 and replace with the attached "Special Provision Regarding Section 404 of the Clean Water Act" dated 2/20/15.

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 added:

Bid Item 009E4200 "Construction Schedule, Category II"

PLANS: Please destroy sheets A1 and B2 and replace with the enclosed sheets, dated 2/17/15.

Sheet A1: **Bid Items were added:**
Bid Item 009E4200 "Construction Schedule, Category II"

Sheet B2: **Bid Items were added:**
Bid Item 009E4200 "Construction Schedule, Category II"

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

CC: Todd Seaman, Rapid City Region Engineer
Rich Zacher, Custer Area Engineer

NOTICE TO CONTRACTORS

Electronic Bids for this project will be received by the South Dakota Department of Transportation (SDDOT) via the SDDOT secure bid submission site at <http://apps.sd.gov/hc65bidletting/bidsubmittallogin.aspx> until 10 A.M. Central time, on March 4, 2015, at which time the SDDOT will open bids. All bids will be checked for qualifications with results posted on the SDDOT website. The South Dakota Transportation Commission will consider all bids at a scheduled Commission meeting.

The work for which proposals are hereby requested is to be completed: **ON OR BEFORE OCTOBER 30, 2015.**

Construction Schedule: The project category is Category II
 The project type is Grading
 The geographic zone is Zone 4

The DBE goal for this project is: **NOT SPECIFIED.**

Work Type for this project is: **Work Type 7.**

All proposals shall be prepared and submitted accordance with the Special Provision of Electronic Bidding Requirements. Any proposal otherwise submitted will be deemed informal, irregular and not subject to or worthy of consideration in the award of the contract.

Plans and the proposal package for the work may be obtained at:
<http://apps.sd.gov/hc65bidletting/ebslettings1.aspx>

An electronic version of the most recent version of the South Dakota Standard Specifications for Roads and Bridges may be obtained
at <http://www.sddot.com/business/contractors/specs/Default.aspx>

The electronic bid proposal must be submitted by a valid bidder as designated on the [Bidding Authorization Form](#). The Bidder ID and Password, coupled with a previously Department assigned Company ID, will serve as authentication that an individual is a valid bidder and will assure the secure electronic delivery of bid proposals to the Department. This authorization shall remain in full force and effect until written notice of termination of this authorization is sent by an Officer of the company and received by the Department.

No proposal will be considered unless a guaranty in amount of five percent of the total amount of the bid is secured by the Contractor and received by the Department with the bid or prior to opening of the bids. Satisfactory proposal guaranties include certified checks, cashier's checks, bank drafts issued upon a National or State Bank, or a bid bond issued in accordance with the laws of South Dakota. If electronic bid bonds are used, the Contractor is required to submit the bid bond identification number with the Contractor's bid. Unless otherwise specified in the proposal book, the proposal guaranty shall be made payable at sight to the Department of Transportation, State of South Dakota.

The South Dakota Transportation Commission reserves the right to reject any or all Proposals.

REV. 2/27/15

SPECIAL PROVISIONS

PROJECT NUMBER(S): P 018P(02)13, P 0471(08)27 PCN: 02S8, 039Z

TYPE OF WORK: REPLACE STRUCTURES (336' & 130' PRESTRESSED GIRDER BRIDGES) & APPROACH GRADING

COUNTY(IES): FALL RIVER

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. In case of any discrepancy or conflict between said specifications and these Special Provisions, the latter are to govern.

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.

Penny Kutz is the official in charge of the Hot Springs Career Center for Fall River County(ies).

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Special Provision Regarding Section 404 of the Clean Water Act, dated 2/20/15.

Special Provision Regarding Section 404 of the Clean Water Act, dated 2/4/15.

Fact Sheet 23

Special Provision for Prosecution and Progress, dated 1/20/15.

Special Provision Regarding Railroad Insurance Requirements, dated 1/7/15.

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 his insurance has been approved and the insurances and certificates has been provided to the SDDOT Area Office.

Special Provision for Working on Railroad Property, dated 1/7/15.

Special Provision for Approach Slab Underdrain System, dated 6/17/10.

Special Provision for Bridge End Backfill, dated 6/17/10.

Special Provision for Concrete Penetrating Sealer, dated 2/22/10.

Special Provision for Bridge Deck Finishing and Curing, dated 2/22/10.

Special Provision for On-the-Job Training Program, dated 7/10/12.

Agreement to Sell Materials (Edgemont Golf & Racquet Club)

Special Provision for Contractor Administered Preconstruction Meeting, dated 4/18/13.

Special Provision for Electronic Bidding Requirements, dated 12/18/13.

Special Provision for Fuel Cost Adjustment, dated 7/13/06.

Special Provision for Differing Site Conditions, dated 12/19/13.

Special Provision for Suspension of Work, dated 2/13/04.

Standard Title VI Assurance, dated 7/14/08.

Special Provision For Disadvantaged Business Enterprise, dated 12/19/12.

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. May/1/12), dated 4/30/13.

Required Contract Provisions Federal-aid Construction Contracts, Form FHWA 1273 (Rev. 5/1/12).

Special Provision Regarding Minimum Wage on Federal-Aid Projects, dated 4/30/13.

Wage and Hour Division US Department of Labor Washington DC.

- US Dept. of Labor Decision Number SD100010, dated 8/30/13.

Supplemental Specification for Errata, dated 3/3/10.

Supplemental Specification to Standard Specifications for Roads and Bridges, dated 3/3/10.

Special Provision for Price Schedule for Miscellaneous Items, dated 9/26/13.

Special Provision Regarding Storm Water Discharge, dated 5/3/13.

General Permit for Storm Water Discharges Associated with Construction

Activities, dated 2/1/10. <http://denr.sd.gov/des/sw/IPermits/ConstructionGeneralPermit2010.pdf>

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**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION
FOR
PROSECUTION AND PROGRESS**

JANUARY 20, 2015

Delete Section 8.3 of the specifications and replace with the following:

8.3 PROSECUTION AND PROGRESS - The Contractor will include the proposed starting date with the signed contract.

The Contractor will provide sufficient materials, equipment, and labor to complete the project within the contract time set forth within the contract.

Should the Contractor discontinue the work for any reason, the Contractor will provide at least a 24-hour notice to the Engineer prior to resuming operations.

A Construction Schedule is required. The project category, project type, and project geographic zone are defined in the Notice to Contractors.

This work consists of scheduling and monitoring all construction work activities. The Construction Schedule is an integral part of the project. The Construction Schedule is used as a resource for both the Department and the Contractor to monitor work progress. The Contractor will ensure operations are conducted such that the Construction Schedule is adhered to by all contracting parties involved regardless of the amount of work subcontracted. The Contractor will ensure the Construction Schedule meets specified interim and overall contract completion dates for all scheduled work activities.

A. Project Categories:

- 1. Category I:** Represents the lowest level of the project ranking system with simple, low risk, short duration projects with minimal impacts on traffic.
 - a.** Types of projects typically include, but are not limited to, asphalt surface treatments, crack seals, rumble strip installation, bridge deck overlays, and other minor repair projects.
 - b.** Construction schedule requirements for Category I projects are Written Narrative (WN), Bar Chart Method (BCM), Critical Path Method (CPM), or Linear Schedule Method (LSM).

2. **Category II:** Represents the medium level of the project ranking system with slightly complex projects that typically involve a limited number of linear, repetitive operations with typical project constraints and some traffic impact.
 - a. Types of projects typically include, but are not limited to, asphalt concrete resurfacing, grading, shoulder widening, bridge replacement, concrete pavement repair, and major bridge repair projects.
 - b. Construction schedule requirements for Category II projects are Bar Chart Method (BCM), Critical Path Method (CPM), or Linear Schedule Method (LSM).
3. **Category III:** Represents the highest level of project ranking system with complex, high risk projects with major impacts on traffic. These projects may last for more than one construction season.
 - a. Types of projects typically include, but are not limited to, urban reconstruction, interstate interchanges, and interstate reconstruction.
 - b. Construction schedule requirements for Category III projects are Critical Path Method (CPM) or Linear Schedule Method (LSM).

B. General:

The following will apply to all scheduling methods:

1. Startup and Construction Schedules

The Contractor will submit a Startup Schedule or Construction Schedule prior to the scheduling of the preconstruction meeting. For Category II or III projects, the Contractor may submit a Startup Schedule that contains a detailed breakdown of all work activities for the first 30 working days from start of work. The Startup Schedule must meet the requirements of the BCM at a minimum.

If the Contractor elects to submit a Startup Schedule, the Contractor will schedule a joint construction scheduling meeting between the Department and the Contractor at the time of submitting the Startup Schedule. The Contractor and Department will review the Startup Schedule and the proposed Construction Schedule and collaborate to include all remaining work activities for the remainder of the project, or the season if the project is a multi-year project. For multi-year projects, the same submittal requirements and timelines will apply each year.

The Contractor will include expected adverse weather days at the end of the Construction Schedule. See the Expected Adverse Weather Days in Section 8.3 I. The Engineer, with concurrence from the Contractor, will determine which days are adverse weather days lost during each bi-weekly progress report and the Contractor will account for those adverse weather days lost by moving the agreed upon adverse weather days lost forward in the Construction Schedule to the date the working days were lost.

The Engineer will approve or provide suggested revisions to the Construction Schedule within 5 business days of the date of receiving the Construction Schedule. If revisions are needed prior to approval, the Contractor will make the required revisions and submit the revised Construction Schedule to the Engineer. The Engineer will approve the revised Construction Schedule within 2 business days of the date of receiving the revised Construction Schedule. Acceptance of the Construction Schedule by the Engineer does not modify the contract or constitute endorsement or validation by the Engineer of the Contractor's logic, activity durations, or assumptions in creating the schedule. Acceptance of the schedule also does not relieve the Contractor of the obligation to complete all work within interim and overall contract completion dates.

2. **Preface:** The Contractor will preface each Construction Schedule with the following information:
 - a. Project Number;
 - b. PCN;
 - c. Contractor;
 - d. Original contract time allowed or completion date and interim completion dates as per the special provision for contract time;
 - e. Type of Construction Schedule (Startup, Construction, or Update); and,
 - f. Data date of the schedule (the date the schedule was updated to) as applicable by scheduling type.

In addition, the Contractor will provide a comparison of the initial schedule to the current schedule for project completion.

C. Written Narrative: The written narrative must contain all of the following:

1. Estimated starting and completion dates of each work activity;

2. Description of work to be done within each work activity including the type and quantity of equipment and labor;
3. Description of the location on the project where each work activity occurs;
4. Description of planned production rates by major work activities (example: cubic yards of excavation per day/week);
5. Description of planned work days per week, holidays, number of shifts per day, and number of hours per shift;
6. An estimate of any periods which a work activity is idle or partially idle including the beginning and end dates of the reduced production or idle timeframe;
7. Description of expected and critical delivery dates for equipment and materials that may affect timely completion of the project;
8. Description of critical completion dates for maintaining the construction schedule; and,
9. Identification of the vendor, supplier, or subcontractor to perform the work activity including stating all assumptions made by the Contractor in the scheduling of the subcontractor's or supplier's work.

D. Bar Chart Method (BCM): The BCM Construction Schedule consists of a diagram and a written narrative:

1. **Diagram:** The Contractor must show the following in the BCM diagram:
 - a. A time scale to graphically show the percentage of work scheduled for completion during the contract time;
 - b. Define and relate principle and major work activities into manageable item with durations no longer than 15 working days;
 - c. Show all work activities in the order the work is to be performed including submittals, submittal reviews, fabrication, and delivery;
 - d. Show all critical (major) work activities that are controlling factors in the completion of the work;
 - e. Show the time needed to perform each work activity and the work activity's relationship in time to other work activities; and,

- f. Show the expected time to complete all work.

In addition, the Contractor will provide enough space for each work activity to permit 2 additional plots parallel to the original time span plot. The Contractor will use one spot for revision of the planned time span and one spot for showing the actual time span achieved.

2. **Written Narrative:** The written narrative must contain the information required in Section 8.3 C. If all of the information required in Section 8.3 C. is shown in the BCM Construction Schedule, the Contractor will not be required to provide a written narrative.
- E. Critical Path Method (CPM):** The CPM Construction Schedule consists of a diagram and a written narrative:
1. **Diagram:** The Contractor must show the following in the CPM diagram:
 - a. Planned start and completion dates for each work activity;
 - b. Duration of each work activity (stated in working days with work activities of more than 15 working days in duration broken into two or more work activities distinguished by location or some other feature);
 - c. Interim and project completion dates specified in the contract as the only constraints in the schedule logic;
 - d. Work activities related to the procurement of materials, equipment, and articles of special manufacture;
 - e. Contractor work activities related to the preparation and submission of working drawings, shop plans, and other data specified for review or approval by the Engineer; and,
 - f. Department activities related to specified activities by the Department (including, but not limited to, review of shop drawings and results from Central Lab) and third parties.
 2. **Written Narrative:** The written narrative must contain the information required in Section 8.3 C. If all of the information required in Section 8.3 C. is shown in the CPM Construction Schedule, the Contractor will not be required to provide a written narrative.
- F. Linear Schedule Method (LSM):** The LSM Construction Schedule consists of a diagram and a written narrative:
1. **Diagram:** The Contractor must show the following in the LSM diagram:

- a. Planned start and completion dates for each work activity;
- b. All work activities longer than 3 days in duration, or an alternate longer or shorter duration per work activity as mutually agreed upon by the Contractor and the Engineer;
- c. Interim and project completion dates specified in the contract as the only constraints in the schedule logic;
- d. Work activities related to the procurement of materials, equipment, and articles of special manufacture;
- e. Contractor work activities related to the preparation and submission of working drawings, shop plans, and other data specified for review or approval by the Engineer;
- f. Department activities related to specified work activities by the Department (including, but not limited to, review of shop drawings and results from Central Lab) and third parties.

2. Written Narrative: The written narrative must contain the information required in Section 8.3 C. If all of the information required in Section 8.3 C. is shown in the LSM Construction Schedule, the Contractor will not be required to provide a written narrative.

G. Construction Schedule Updates: The Contractor will review the Construction Schedule to verify finish dates of completed work activities, remaining duration of uncompleted work activities, and any proposed logic or time estimate revisions. The Contractor will keep the Engineer informed of the current Construction Schedule and all logic changes. The Construction Schedule and all Construction Schedule updates will be discussed during the weekly meetings or at a frequency agreed upon by the Contractor and Engineer.

The Contractor will submit an updated Construction Schedule for acceptance by the Engineer at least every month or when any of the following conditions occur:

1. A delay occurs in the completion of a critical (major) work activity;
2. A delay occurs which causes a change in a critical work activity for BCM schedules, the critical path for CPM schedules, or work activity lines are crossed for LSM schedules;

3. The actual prosecution of the work is different from that represented on the current Construction Schedule;
4. There is an addition, deletion, or revision of work activities caused by a contract change order; or,
5. There is a change in the Construction Schedule logic

The Engineer will approve or provide suggested revisions to the updated Construction Schedule within 5 business days of the date of receiving the updated Construction Schedule. If revisions are needed prior to approval, the Contractor will make the required revisions and submit the revised updated Construction Schedule to the Engineer. The Engineer will approve the revised updated Construction Schedule within 2 business days of the date of receiving the revised updated Construction Schedule.

H. Construction Schedule Payment and Assessments:

1. **Construction Schedule Payment:** Payment will be full compensation for the work prescribed in this section. The Engineer will make progress payments Construction Schedule in accordance with the following:
 - a. 25% of the item amount, not to exceed 1% of the original contract amount will be paid after the Construction Schedule is accepted.
 - b. Payment of the remaining portion of the lump sum contract unit price will be prorated based on the total work completed.
2. **Assessments:**
 - a. **Construction Schedule:** If the Contractor begins work prior to the Engineer's approval of the Construction Schedule, the Engineer will make an assessment of \$100 for Category I, \$250 for Category II, and \$500 for Category III for each working day until the Construction Schedule is approved. If the Contractor chooses to use the Startup Schedule option, the assessment will not apply until 30 working days from start of work
 - b. **Construction Schedule Updates:** If the Contractor does not submit the updated Construction Schedule by the agreed upon date each month or as required in 8.3 G., the Engineer will make an assessment of \$100 for Category I, \$250 for Category II, and \$500 for Category III for each working day until the updated Construction Schedule is submitted.

I. Expected Adverse Weather Days:

The Department has provided Attachment 1. This table depicts the typical number of adverse weather days expected for any given month, based on historical records. The Contractor will use the expected adverse weather days shown in the table when establishing and updating the Construction Schedule.

When considering a time extension for the interim completion date, substantial completion date, and field work completion date, the Engineer will compare the total number of expected adverse weather days against the total number of actual adverse weather days in the accepted Construction Schedule.

* * * * *

ATTACHMENT 1

Figure A. Expected Adverse Weather Days for South Dakota

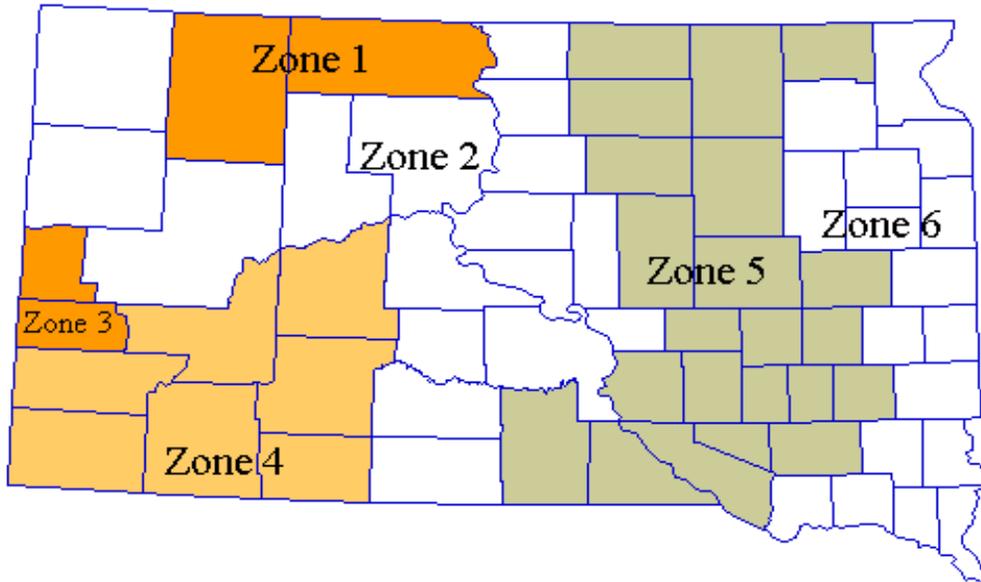


Table 1. Expected Adverse Weather Days for South Dakota

	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.

**STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION REGARDING
SECTION 404 OF
THE CLEAN WATER ACT**

**P 0471(08)27, PCN 039Z
FALL RIVER COUNTY**

**FEBRUARY 20, 2015
NATIONWIDE PERMIT NO NWO-2015-0043-PIE**

The above referenced project is authorized by the Department of the Army Nationwide Permit Section (23), found in the February 21, 2012 Federal Register (77 FR 10184), Reissuance of Nation Wide Permits.

This Nationwide Permit verification will be valid until March 18, 2017.

The following general conditions must be adhered to in order for any authorization by a nationwide permit to be valid:

Please refer to the attached *Fact Sheet Nationwide Permit 23 and 2012 Nationwide Permits Regional Conditions*

The above authorization permits placement of fill in the drainage crossings or wetlands noted below:

Drainage Crossing(s) Permanent:

Str. 24-116-133 Cottonwood Creek

* * * *

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT BRF 018P(02)13 P 0471(08)27	SHEET A1	TOTAL SHEETS A6
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Plotting Date: 02/17/2015
Revised 2/17/15 BLG

Grading – Section B

BRF 018P(02)13- PCN 02S8

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	710	Ft
120E0010	Unclassified Excavation	8,113	CuYd
120E0600	Contractor Furnished Borrow	4,341	CuYd
120E2000	Undercutting	3,830	CuYd
120E6100	Water for Embankment	171.7	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	654.9	Ton
450E4739	12" CMP 16 Gauge, Furnish	84	Ft
450E4740	12" CMP, Install	84	Ft
450E4759	18" CMP 16 Gauge, Furnish	290	Ft
450E4760	18" CMP, Install	290	Ft
450E5000	12" CMP Elbow, Furnish	4	Each
450E5001	12" CMP Elbow, Install	4	Each
450E5010	18" CMP Elbow, Furnish	4	Each
450E5011	18" CMP Elbow, Install	4	Each
450E5203	12" CMP Flared End, Furnish	2	Each
450E5204	12" CMP Flared End, Install	2	Each
450E5211	18" CMP Flared End, Furnish	2	Each
450E5212	18" CMP Flared End, Install	2	Each
450E5406	18" CMP Safety End, Furnish	4	Each
450E5407	18" CMP Safety End, Install	4	Each
462E0100	Class M6 Concrete	1.3	CuYd
480E0100	Reinforcing Steel	164	Lb
600E0200	Type II Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	730	Ft
620E0510	Type 1 Temporary Fence	190	Ft
620E0515	Type 1A Temporary Fence	485	Ft
620E1020	2 Post Panel	20	Each
620E1030	3 Post Panel	3	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	12.5	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	37.5	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	1	Each
630E2015	W Beam Guardrail Flared End Terminal	1	Each
670E5200	Special Frame and Grate Assembly	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
720E1015	Bank and Channel Protection Gabion	13.5	CuYd
998E0100	Railroad Protective Insurance	Lump Sum	LS

Grading – Section B, Continued

P 0471(08)27- PCN 039Z

Bid Item Number	Item	Quantity	Unit
004E0030	Maintenance of Traffic Diversion(s)	Lump Sum	LS
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	2,490	Ft
110E4290	Salvage Beam Guardrail	730.0	Ft
110E7802	Remove Fence for Reset	1,000	Ft
120E0010	Unclassified Excavation	19,027	CuYd
120E0500	Option Borrow Excavation	25,129	CuYd
120E2000	Undercutting	2,695	CuYd
120E6100	Water for Embankment	450.9	MGal
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	342.5	Ton
450E0102	12" RCP Class 2, Furnish	38	Ft
450E0110	12" RCP, Install	38	Ft
450E4739	12" CMP 16 Gauge, Furnish	26	Ft
450E4740	12" CMP, Install	26	Ft
450E5000	12" CMP Elbow, Furnish	2	Each
450E5001	12" CMP Elbow, Install	2	Each
450E5203	12" CMP Flared End, Furnish	1	Each
450E5204	12" CMP Flared End, Install	1	Each
450E7999	12" RCP to CMP Transition, Furnish	1	Each
450E8000	12" Pipe Transition, Install	1	Each
462E0100	Class M6 Concrete	1.7	CuYd
480E0100	Reinforcing Steel	208	Lb
620E0300	Special Right-of-Way Fence	2,780	Ft
620E0515	Type 1A Temporary Fence	2,560	Ft
620E1020	2 Post Panel	33	Each
620E1030	3 Post Panel	4	Each
620E4100	Reset Fence	1,000	Ft
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	50.0	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	225.0	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	4	Each
630E2015	W Beam Guardrail Flared End Terminal	3	Each
630E2020	W Beam Guardrail Tangent End Terminal	1	Each
670E3200	Type D Frame and Grate	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

INDEX OF SHEETS

A1 to A3 Estimate of Quantities for Sections B,C,D,E, F, M, and S
A4 to A6 Environmental Commitments

Traffic Control – Section C

BRF 018P(02)13- PCN 02S8

Bid Item Number	Item	Quantity	Unit
632E3526	Install State Furnished Sign	10	Each
634E0010	Flagging	250	Hour
634E0100	Traffic Control	962	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

P 0471(08)27- PCN 039Z

Bid Item Number	Item	Quantity	Unit
634E0010	Flagging	250	Hour
634E0100	Traffic Control	1,083	Unit
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

SPECIFICATIONS

Standard Specifications for Roads and Bridges, 2004 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

SECTION B ESTIMATE OF QUANTITIES
BRF 018P(02)13 – PCN 02S8:

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	710	Ft
120E0010	Unclassified Excavation	8,113	CuYd
120E0600	Contractor Furnished Borrow	4,341	CuYd
120E2000	Undercutting	3,830	CuYd
120E6100	Water for Embankment	171.7	MGal
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	654.9	Ton
450E4739	12" CMP 16 Gauge, Furnish	84	Ft
450E4740	12" CMP, Install	84	Ft
450E4759	18" CMP 16 Gauge, Furnish	290	Ft
450E4760	18" CMP, Install	290	Ft
450E5000	12" CMP Elbow, Furnish	4	Each
450E5001	12" CMP Elbow, Install	4	Each
450E5010	18" CMP Elbow, Furnish	4	Each
450E5011	18" CMP Elbow, Install	4	Each
450E5203	12" CMP Flared End, Furnish	2	Each
450E5204	12" CMP Flared End, Install	2	Each
450E5211	18" CMP Flared End, Furnish	2	Each
450E5212	18" CMP Flared End, Install	2	Each
450E5406	18" CMP Safety End, Furnish	4	Each
450E5407	18" CMP Safety End, Install	4	Each
462E0100	Class M6 Concrete	1.3	CuYd
480E0100	Reinforcing Steel	164	Lb
600E0200	Type II Field Laboratory	1	Each
620E0020	Type 2 Right-of-Way Fence	730	Ft
620E0510	Type 1 Temporary Fence	190	Ft
620E0515	Type 1A Temporary Fence	485	Ft
620E1020	2 Post Panel	20	Each
620E1030	3 Post Panel	3	Each
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	12.5	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	37.5	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	1	Each
630E2015	W Beam Guardrail Flared End Terminal	1	Each
670E5200	Special Frame and Grate Assembly	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
720E1015	Bank and Channel Protection Gabion	13.5	CuYd
998E0100	Railroad Protective Insurance	Lump Sum	LS

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Bid Item Number	Item	Quantity	Unit
004E0030	Maintenance of Traffic Diversion(s)	Lump Sum	LS
004E0050	Remove Traffic Diversion(s)	Lump Sum	LS
009E0010	Mobilization	Lump Sum	LS
009E4200	Construction Schedule, Category II	Lump Sum	LS
100E0100	Clearing	Lump Sum	LS
110E0600	Remove Fence	2,490	Ft
110E4290	Salvage Beam Guardrail	730.0	Ft
110E7802	Remove Fence for Reset	1,000	Ft
120E0010	Unclassified Excavation	19,027	CuYd
120E0500	Option Borrow Excavation	25,129	CuYd
120E2000	Undercutting	2,695	CuYd
120E6100	Water for Embankment	450.9	MGal
270E0040	Salvage and Stockpile Asphalt Mix and Granular Base Material	342.5	Ton
450E0102	12" RCP Class 2, Furnish	38	Ft
450E0110	12" RCP, Install	38	Ft
450E4739	12" CMP 16 Gauge, Furnish	26	Ft
450E4740	12" CMP, Install	26	Ft
450E5000	12" CMP Elbow, Furnish	2	Each
450E5001	12" CMP Elbow, Install	2	Each
450E5203	12" CMP Flared End, Furnish	1	Each
450E5204	12" CMP Flared End, Install	1	Each
450E7999	12" RCP to CMP Transition, Furnish	1	Each
450E8000	12" Pipe Transition, Install	1	Each
462E0100	Class M6 Concrete	1.7	CuYd
480E0100	Reinforcing Steel	208	Lb
620E0300	Special Right-of-Way Fence	2,780	Ft
620E0515	Type 1A Temporary Fence	2,560	Ft
620E1020	2 Post Panel	33	Each
620E1030	3 Post Panel	4	Each
620E4100	Reset Fence	1,000	Ft
630E0110	Straight Double Class A Thrie Beam Guardrail with Wood Posts	50.0	Ft
630E1010	Straight Class A W Beam Guardrail with Wood Posts	225.0	Ft
630E2000	W Beam to Thrie Beam Guardrail Transition	4	Each
630E2015	W Beam Guardrail Flared End Terminal	3	Each
630E2020	W Beam Guardrail Tangent End Terminal	1	Each
670E3200	Type D Frame and Grate	2	Each
670E5400	Precast Drop Inlet Collar	2	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

COORDINATION OF WORK ON RAILROAD RIGHT-OF-WAY

The Contractor shall coordinate work with the BNSF Railway Company. See the following special provisions "Special Provision Regarding Working on Railroad Property" and "Special Provision Regarding Railroad Insurance Requirements."

CLEARING

Before clearing activities begin, the Contractor shall contact the Engineer to determine the limits of clearing for the project. If the trees or shrubs that are supposed to remain within the limits of work are damaged or destroyed by the Contractor, the Contractor shall replace them with the same size and type at the Contractor's expense.

GRADING OPERATIONS

Water for Embankment is estimated at the rate of 15 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.

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

Generally, all shallow inlet and outlet ditches as noted on the plan sheets shall be cut with a 10-foot wide bottom with 5:1 backslopes. However, the Engineer may direct the Contractor to adjust the ditch width for proper alignment with the drainage structure.

Temporary fence and/or permanent fence shall be placed ahead of the grading operation unless otherwise directed by the Engineer.

When proposed embankment is constructed against existing inslopes, the existing inslopes shall be continuously benched in accordance with Section 120 of the Specifications.

Compaction of earth embankment shall be governed by the Specified Density Method.

TYPE II FIELD LABORATORY

The lab shall be equipped with an internet connection such as DSL, cable modem, or other approved service. The internet connection shall be provided with a multi-port wireless router. The internet connection shall be a minimum speed of 512 Kb unless limited by job location and approved by the DOT. Prior to installing the wireless router the Contractor shall 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.

The Contractor shall submit a copy of each monthly bill for calls charged to this phone at the end of each month. The Project Engineer will then audit the bills to ensure all calls are legitimate and then initiate a Construction Change Order (CCO) to reimburse the Contractor for the actual phone calls made, including local and long distance calls. Reimbursement will not be made for fees associated with the purchase, installation, disconnection, monthly line charges, and incidentals involved in the installation, maintenance, and disconnection of the phone (including attachments). These items shall be incidental to the contract unit price per each for "Type II Field Laboratory".