



Department of Transportation

Office of Project Development

700 E Broadway Avenue

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

FAX: 605/773-2614

February 19, 2016

ADDENDUM NO. 1

RE: Item #1, February 24, 2016 Letting - NH-PH 0018(177)104, P 0391(06)0, PCN 02QC, 02NH, Oglala Lakota County - Shoulder Widening, Cold Milling Asphalt Concrete, Asphalt Concrete Resurfacing, & Replace Structures

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 Special Provisions checklist and replace with attached Special Provisions checklist revised 2/19/16. "Agreement to Allow the Deposit of Excess Embankment Material" was added.

Please add the Agreement to Allow the Deposit of Excess Embankment Material before the "Special Provision for Contract Time", dated 9/29/15.

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.

Quantities for Bid Items were changed:

Bid Item 634E0100 "Traffic Control Signs" changed from 1,766 to 1,990 SqFt.

Bid Items were removed:

Bid Item 632E3526 "Install State Furnished Sign"

PLANS: Please destroy sheets A2, B12, and C2 and replace with the enclosed sheets, dated 2/19/16.

Sheet A2 & C2:

Quantities for Bid Item 634E0100 "Traffic Control Signs" for PCN 02QC changed from 1,472 to 1,696 SqFt and

Bid Item 632E3526 "Install State Furnished Sign" was removed for both PCN 02QC & 02NH.

Sheet B12:

RESTRICTED WORK AREA note was added.

Sheet C3:

SIGN INVENTORY table for PCN 02QC was revised.

Sincerely,

Sam Weisgram
Engineering Supervisor

SW/cj

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

REV. 2/19/16

SPECIAL PROVISIONS

PROJECT NUMBER(S): NH-PH 0018(177)104, P 0391(06)0 PCN: 02QC, 02NH

TYPE OF WORK: SHOULDER WIDENING, COLD MILLING ASPHALT CONCRETE,
ASPHALT CONCRETE RESURFACING, & REPLACE STRUCTURES

COUNTY: ONGLALA LAKOTA

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.

Penny Kutz is the official in charge of the Pine Ridge Career Center for Oglala Lakota County.

THE FOLLOWING ITEMS ARE INCLUDED IN THIS PROPOSAL FORM:

Agreement to Allow the Deposit of Excess Embankment Material

Special Provision for Contract Time, dated 9/29/15.

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

Special Provision for Subletting of Contract, dated 9/16/15.

Special Provision for Alternate Bidding, dated 8/16/15.

Special Provision Regarding Combination Bids, dated 1/19/16.

Special Provision for Partnering, dated 5/3/07.

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

Special Provision Regarding Right of Entry, dated 1/19/16.

**Special Provision for Indian Employment and Contracting on the
Pine Ridge Reservation, dated 1/8/16.**

**Special Provision Regarding Section 404 of the Clean water Act for PCN 02QC, dated
1/21/16.**

Fact Sheet #23.

Special Provision Regarding Section 404 of the Clean water Act for PCN 02NH, dated 1/21/16.

Fact Sheet #3.

Special Provision for Contractor Staking with Machine Control Grading Option, dated 1/15/16.

Special Provision for Flexible Pavement Smoothness, dated 7/21/15.

List of Utilities.

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

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

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

Special Provision For Disadvantaged Business Enterprise, dated 5/20/15.

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 for Cargo Preference Act, dated 1/20/16.

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 SD150001, dated 10/9/15.

Special Provision for Price Schedule for Miscellaneous Items, dated 10/14/15.

Special Provision Regarding Storm Water Discharge to Waters of the United States Within Indian Reservations, dated 5/3/13.

National Pollutant Discharge Elimination System General Permit for Discharges from Large and Small Construction Activities.

http://www.epa.gov/npdes/pubs/cgp2012_finalpermit.pdf

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**STATE OF SOUTH DAKOTA
AGREEMENT TO ALLOW THE DEPOSIT OF EXCESS EMBANKMENT MATERIAL**

This Agreement is between the **Oglala Sioux Tribe**, of P.O. Box 413, Pine Ridge, South Dakota 57770, referred to in this Agreement as the "Owner" (whether one or more), and the State of South Dakota, acting by and through its Department of Transportation, referred to in this Agreement as the "State."

1. The Owner grants the State the non-exclusive right to deposit excess embankment materials generated from construction project(s), consisting of soil and rock, upon the following described real property owned by the Owner and situated in Pennington County, South Dakota:

**Part of the South Half of the Southeast Quarter of Section Thirty-three (S $\frac{1}{2}$ SE $\frac{1}{4}$ 33)
Township Thirty-six North (36N), Range Forty-three West (43W) of the 6th P.M.,
Pennington County, South Dakota.**

2. The term of this Agreement will be from **January 1, 2015**, to the completion of Project: **NH-PH 0018(177)104, PCN 02QC**.
3. The Owner will allow the State, and any servant, agent, contractor, or worker authorized by the State, the right of ingress and egress from the public highway to the subject real property, and the right to operate all necessary equipment on the subject real property for any purpose allowed or required by this Agreement. The term "necessary equipment" will include equipment required to deposit excess embankment materials and restore the subject real property to the condition required by this Agreement.
4. The State may assign this Agreement to the party or parties performing the contracts for which the material placement area(s) will be required. Upon assignment of this Agreement, the assignee will have all rights granted to the State under this Agreement and will share the State's obligations under this Agreement.
5. The State will pay the Owner at a rate of **\$0.05 per cubic yard** for depositing excess embankment materials on the subject property.
6. The State will also pay a one (1) time payment of **(\$100.00)** per acre per year for **2** year(s) to cover loss of use of the real property.
7. If any temporary fence is required around the material placement or topsoil stockpile area(s) to protect livestock, the State will erect that fencing at the State's expense.

8. The State will restore the affected area on completion of operations in accordance with the General Provisions of "SOUTH DAKOTA DEPARTMENT of TRANSPORTATION STANDARD SPECIFICATIONS for ROADS and BRIDGES" and the following:

- A. Prior to the beginning of placement of excess materials, the Owner or the Owner's representative, the State, and the contractor will meet and discuss the limits of operations and identify specific material placement and topsoil stockpile area(s).
- B. Prior to the depositing of excess materials, the State will stockpile topsoil stripping materials adjacent to the excess materials site.
- C. Topsoil, to be stockpiled on the area adjacent to the excess materials site will be considered to consist of the upper 3" (three inches) of natural soil.
- D. The affected material placement area(s) will be restored for use as pasture.
- E. The State will seed, mulch, and fertilize the area to permanent seed mixtures as shown in the plans.
- F. The State will restore any fencing disturbed by the State's operations under this Agreement to as good a condition as the fencing was in before work started.

This Agreement will be binding on the State, the Owner, and the Owner's successors and assigns.

Oglala Sioux Tribe

By: Courtney D. Trufance
Oglala Sioux Tribe
Its: Credit and Finance Program Director

Date: October 22, 2014

State of South Dakota
Department of Transportation

By: [Signature]
Its: So. Right of Way Specialist

Date: 22 Oct 2014

Approved as to Form:
William J. Nevin
Special Assistant Attorney General

ACKNOWLEDGMENT FOLLOWS

OWNER'S ACKNOWLEDGMENT

State of South Dakota)
 :SS
County of Shannon)

On this the 22 day of October, 2014, before me, Michael Young, a notary public, personally appeared Courtney J. Tee Lince, who acknowledged himself/herself to be the DST Credit & Finance Program Director of the Oglala Sioux Tribe, and that he/she, as such officer, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the Tribe by himself/herself as such officer.

In witness whereof I hereunto set my hand and official seal.

Michael Young

Notary Public

(Notary Seal)

My Commission Expires: 25 Feb 2019

STATE ACKNOWLEDGMENT

STATE OF SOUTH DAKOTA)
 :SS
COUNTY OF _____)

On this the ___ day of _____, 20___, before me, _____, a notary public, personally appeared _____, of the State of South Dakota, Department of Transportation, known to me or satisfactorily proven to be the person described in the foregoing instrument, and acknowledged that he executed the same in the capacity therein stated and for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

[Notary Seal]

Notary Public
My commission expires: _____

STATE OF SOUTH DAKOTA
AGREEMENT TO ALLOW THE DEPOSIT OF EXCESS EMBANKMENT MATERIAL

This Agreement is between **Roger Latshaw**, of HC 64 Box 47A, Batesland, South Dakota 57716, referred to in this Agreement as the "Owner" (whether one or more), and the State of South Dakota, acting by and through its Department of Transportation, referred to in this Agreement as the "State."

1. The Owner grants the State the non-exclusive right to deposit excess embankment materials generated from construction project(s), consisting of soil and rock, upon the following described real property owned by the Owner and situated in Shannon County, South Dakota:

Part of the Northeast Quarter of the Northeast Quarter of Section Two (NE $\frac{1}{4}$ NE $\frac{1}{4}$ 2) Township Thirty-five North (35N), Range Forty-three West (43W) of the 6th P.M., Shannon County, South Dakota.

2. The term of this Agreement will be from **January 1, 2015**, to the completion of Project: **NH-PH 0018(177)104, PCN 02QC**.
3. The Owner will allow the State, and any servant, agent, contractor, or worker authorized by the State, the right of ingress and egress from the public highway to the subject real property, and the right to operate all necessary equipment on the subject real property for any purpose allowed or required by this Agreement. The term "necessary equipment" will include equipment required to deposit excess embankment materials and restore the subject real property to the condition required by this Agreement.
4. The State may assign this Agreement to the party or parties performing the contracts for which the material placement area(s) will be required. Upon assignment of this Agreement, the assignee will have all rights granted to the State under this Agreement and will share the State's obligations under this Agreement.
5. The State will pay the Owner at a rate of **\$0.05 per cubic yard** for depositing excess embankment materials on the subject property
6. The State will also pay a one (1) time payment of One Hundred Dollars (**\$100.00**) per acre per year for **2** year(s) to cover loss of use of the real property.
7. If any temporary fence is required around the material placement or topsoil stockpile area(s) to protect livestock, the State will erect that fencing at the State's expense.

8. The State will restore the affected area on completion of operations in accordance with the General Provisions of "SOUTH DAKOTA DEPARTMENT of TRANSPORTATION STANDARD SPECIFICATIONS for ROADS and BRIDGES" and the following:
- A. Prior to the beginning of placement of excess materials, the Owner or the Owner's representative, the State, and the contractor will meet and discuss the limits of operations and identify specific material placement and topsoil stockpile area(s).
 - B. Prior to the depositing of excess materials, the State will stockpile topsoil stripping materials adjacent to the excess materials site.
 - C. Topsoil, to be stockpiled on the area adjacent to the excess materials site will be considered to consist of the upper 3" (three inches) of natural soil.
 - D. The affected material placement area(s) will be restored for use as pasture.
 - E. The State will seed, mulch, and fertilize the area to permanent seed mixtures as shown in the plans.
 - F. The State will restore any fencing disturbed by the State's operations under this Agreement to as good a condition as the fencing was in before work started.

This Agreement will be binding on the State, the Owner, and the Owner's successors and assigns.

Roger Vatschaw
 Roger Vatschaw
 (605)288-1908

Date: 8-26-2014

State of South Dakota
 Department of Transportation

By: [Signature]

Its: REGION ENGR

Date: 02.19.16

Approved as to Form:

 Special Assistant Attorney General

ACKNOWLEDGMENT FOLLOWS

OWNER'S ACKNOWLEDGMENT

State of South Dakota)
:SS
County of STANNOX)

On this the 26TH day of AUGUST, 2014, before me, MATTHEW J. STONE, a notary public, personally appeared ROGER LATSHAW, known to me or satisfactorily proven to be the person whose name is subscribed to the within instrument and acknowledged that he executed same for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

Matthew J. Stone

Notary Public

My Commission Expires: FEBRUARY 29, 2017

(Notary Seal)

STATE ACKNOWLEDGMENT

STATE OF SOUTH DAKOTA)
:SS
COUNTY OF PENNINGTON)

On this the 19TH day of FEBRUARY, 2016, before me, MATTHEW J. STONE, a notary public, personally appeared TODD SEAMAN, of the State of South Dakota, Department of Transportation, known to me or satisfactorily proven to be the person described in the foregoing instrument, and acknowledged that he executed the same in the capacity therein stated and for the purposes therein contained.

In witness whereof I hereunto set my hand and official seal.

Matthew J. Stone

Notary Public

My commission expires: FEBRUARY 29, 2017

[Notary Seal]

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

STATE OF SOUTH DAKOTA	PROJECT P 0391(06)0 NH-PH 0018(177)104	SHEET A2	TOTAL SHEETS A9
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Plotting Date: 02/19/2016 Revised 02/19/2016 - DJ

Grading – Section B (PCN 02QC) (Continued)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E4759	18" CMP 16 Gauge, Furnish	2,354	Ft
450E4760	18" CMP, Install	2,354	Ft
450E4769	24" CMP 16 Gauge, Furnish	282	Ft
450E4770	24" CMP, Install	282	Ft
450E4799	42" CMP 16 Gauge, Furnish	88	Ft
450E4800	42" CMP, Install	88	Ft
450E5010	18" CMP Elbow, Furnish	1	Each
450E5011	18" CMP Elbow, Install	1	Each
450E5227	42" CMP Flared End, Furnish	4	Each
450E5228	42" CMP Flared End, Install	4	Each
450E5406	18" CMP Safety End, Furnish	73	Each
450E5407	18" CMP Safety End, Install	73	Each
450E5410	24" CMP Safety End, Furnish	10	Each
450E5411	24" CMP Safety End, Install	10	Each
450E5509	18" CMP Arch 16 Gauge, Furnish	252	Ft
450E5510	18" CMP Arch, Install	252	Ft
450E5519	24" CMP Arch 16 Gauge, Furnish	324	Ft
450E5520	24" CMP Arch, Install	324	Ft
450E5529	30" CMP Arch 16 Gauge, Furnish	54	Ft
450E5530	30" CMP Arch, Install	54	Ft
450E5802	18" CMP Arch Flared End, Furnish	2	Each
450E5803	18" CMP Arch Flared End, Install	2	Each
450E6006	18" CMP Arch Safety End, Furnish	8	Each
450E6007	18" CMP Arch Safety End, Install	8	Each
450E6010	24" CMP Arch Safety End, Furnish	14	Each
450E6011	24" CMP Arch Safety End, Install	14	Each
450E6015	30" CMP Arch Safety End with Bars, Furnish	2	Each
450E6017	30" CMP Arch Safety End, Install	2	Each
450E8013	24" CMP to RCP Transition, Furnish	1	Each
450E8014	24" RCP to CMP Transition, Furnish	1	Each
450E8015	24" Pipe Transition, Install	2	Each
*450E8900	Cleanout Pipe Culvert	1	Each
462E0100	Class M6 Concrete	6.9	CuYd
464E0100	Controlled Density Fill	121.5	CuYd
480E0100	Reinforcing Steel	901	Lb
560E5003	5'x7' Reinforced Concrete Cattle Pass, Furnish	84.0	Ft
560E5004	5'x7' Reinforced Concrete Cattle Pass, Install	84.0	Ft
560E5053	5'x7' Reinforced Concrete Cattle Pass End Section, Furnish	2	Each
560E5054	5'x7' Reinforced Concrete Cattle Pass End Section, Install	2	Each
600E0300	Type III Field Laboratory	1	Each
610E0012	12' Cattle Guard	1	Each
610E0020	20' Cattle Guard	2	Each
620E0020	Type 2 Right-of-Way Fence	148,422	Ft
620E0030	Type 3 Right-of-Way Fence	3,098	Ft

Grading – Section B (PCN 02QC) (Continued)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
620E0220	Modified Type 2 Right-of-Way Fence	12,254	Ft
620E0510	Type 1 Temporary Fence	26,362	Ft
620E1020	2 Post Panel	347	Each
620E1030	3 Post Panel	294	Each
620E2012	12' Tubular Gate	2	Each
620E2100	Reset Gate	4	Each
621E0180	8' Chain Link Fence with Tension Wired Top	90	Ft
621E0185	10' Chain Link Fence with Tension Wired Top	834	Ft
632E2540	Flexible Object Marker Post	11	Each
635E7500	Remove and Reset Luminaire Pole	1	Each
651E0040	4" Concrete Sidewalk	1,876	SqFt
651E0060	6" Concrete Sidewalk	689	SqFt
671E6020	Type C Manhole Frame and Lid	2	Each
671E7010	Adjust Manhole	1	Each
671E8000	Reconstruct Manhole	4	Each
700E0210	Class B Riprap	308.0	Ton
700E0310	Class C Riprap	209.0	Ton
720E1015	Bank and Channel Protection Gabion	298.5	CuYd
831E0110	Type B Drainage Fabric	136	SqYd
831E0210	Non-woven Separator Fabric	6,115	SqYd
900E0010	Refurbish Single Mailbox	3	Each
900E0012	Refurbish Double Mailbox	1	Each
900E1080	Orange Plastic Safety Fence	50	Ft
900E1980	Storage Unit	1	Each

* - Denotes Non-Participating

Traffic Control – Section C (PCN 02QC)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	6,000.0	Hour
634E0020	Pilot Car	2,000.0	Hour
634E0110	Traffic Control Signs	1,696	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0280	Type 3 Barricade, 8' Single Sided	20	Each
634E0630	Temporary Pavement Marking	58.0	Mile

Traffic Control – Section C (PCN 02NH)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	1,000.0	Hour
634E0020	Pilot Car	500.0	Hour
634E0110	Traffic Control Signs	294	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	14.0	Mile

Erosion and Sediment Control – Section D (PCN 02QC)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	37.0	CuYd
110E1700	Remove Silt Fence	2,195	Ft
230E0010	Placing Topsoil	162,587	CuYd
730E0100	Cover Crop Seeding	58.0	Bu
730E0251	Special Permanent Seed Mixture 1	7,623	Lb
730E0252	Special Permanent Seed Mixture 2	19	Lb
731E0200	Fertilizing	173.00	Ton
732E0100	Mulching	462.0	Ton
734E0102	Type 2 Erosion Control Blanket	32,530	SqYd
734E0103	Type 3 Erosion Control Blanket	15,484	SqYd
734E0133	Type 3 Turf Reinforcement Mat	1,697.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	12,640	Ft
734E0160	20" Diameter Erosion Control Wattle	3,270	Ft
734E0165	Remove and Reset Erosion Control Wattle	3,978	Ft
734E0325	Surface Roughening	13.0	Acre
734E0510	Shaping for Erosion Control Blanket	21,966	Ft
734E0602	Low Flow Silt Fence	6,575	Ft
734E0604	High Flow Silt Fence	2,205	Ft
734E0610	Mucking Silt Fence	609	CuYd
734E0620	Repair Silt Fence	2,195	Ft
900E1320	Construction Entrance	4	Each

Plot Scale - 1:200

Plotted From - tpr14435

File - ...:\p\log\02QC\Notes\SectionA.dgn

TABLE OF PIPE CULVERT UNDERCUT

The Table of Pipe Culvert Undercut is intended to be used to establish an estimated quantity of Pipe Culvert Undercut for bidding purposes only. The depth of undercut is an estimate and the actual depth necessary shall be determined during construction. Pipes shown may or may not require undercutting and pipes not shown may require undercutting. The Engineer will determine which pipe shall be undercut in accordance with Section 421 of the Specifications. All pipes shown in the "Table of Shallow Pipe Installation" shall be undercut and backfilled at a minimum as shown in the "Shallow Pipe Replacement Detail" found elsewhere in the plans.

Station	Undercut Depth (Ft)	Quantity (CuYd)
42+12	1	77
64+27	1	24
a155+00	1	23
a170+50	1	25
b251+60	1	34
b257+49	1	27
b264+98	1	23
b298+98	1	23
b312+97	1	23
b319+79	1	244
b328+97	1	24
b339+72	1	24
b342+67	1	196
b356+95	1	33
b365+75	1	21
b392+75	1	194
b408+94	1	20
b421+48	1	22
c438+70	1	29
c450+81	1	330
c467+76	1	24
c520+80	1	27
c534+50	1	29
c555+67	1	27
c570+76	1	28
c579+51	1	24
c587+96	1	21
c600+31	1	25
d605+22	1	37
d610+74	1	41
d613+26	1	34
d634+50	1	32
d640+99	1	32
d649+85	1	26
d651+50	1	43
d656+63	1	36
d665+00	1	43
d709+83	1	27
d720+97	1	34
d725+31	1	44
d730+48	1	30
e750+01	1	24
e755+68	1	23
e759+46	1	24
e770+83	1	41

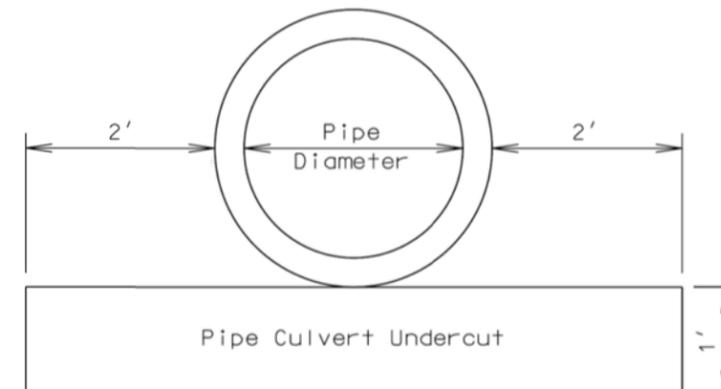
TABLE OF PIPE CULVERT UNDERCUT (CONTINUED)

Station	Undercut Depth (Ft)	Quantity (CuYd)
e773+50	1	35
e776+99	1	21
e795+06	1	84
e820+97	1	25
e832+12	1	30
f859+66	1	73
f870+55	1	21
f875+00	1	31
f893+00	1	34
f903+33	1	148
f924+83	1	33
f931+99	1	32
Total:		2759

The table contains the rate of pipe culvert undercut per foot of pipe length and should be used as an aid in determining the actual amount of undercut to be performed during construction. The table is derived from the drawing below and conforms to the Specifications. When calculating pipe culvert undercut, the length of pipe ends should be included in the overall pipe length.

Storm sewer and approach pipes do not require undercutting unless specified otherwise in these plans.

Pipe Diameter (In)	Round Pipe Undercut Rate for 1' Depth (CuYd/Ft)	Arch Pipe Undercut Rate for 1' Depth (CuYd/Ft)
24	0.2407	0.2577
30	0.2623	0.2847
36	0.2840	0.3110
42	0.3056	0.3337
48	0.3272	0.3596
54	0.3488	0.3827
60	0.3704	0.4105
66	0.3920	---
72	0.4136	0.4630
78	0.4352	---


TABLE OF SIDEWALK REMOVAL

Station	to Station	L/R	Quantity (SqYd)
41+35	42+41	L	116.1
48+13	49+22	L	122.9
83+22	83+64	L	46.0
Total:			285.0

TABLE OF CATTLE GUARD REMOVAL

Station	L/R	Quantity (Each)
79+58	L	1
131+84	L	1
b404+99	R	1
Total:		3

TABLE 3 CABLE GUARDRAIL REMOVAL

Station	to Station	L/R	Quantity (Ft)
d670+13	d674+13	R	400
d672+41	d676+41	L	400
e802+40	e806+36	R	396
e804+58	e808+35	L	377
Total:			1573

TABLE OF 4" CONCRETE SIDEWALK

Station	to Station	L/R	Quantity (SqFt)
41+35	42+41	L	1045.0
48+13	48+62	L	503.0
48+90	49+22	L	328.0
Total:			1876.0

TABLE OF 6" CONCRETE SIDEWALK

Station	to Station	L/R	Quantity (SqFt)
48+62	48+90	L	275.0
83+22	83+64	L	414.0
Total:			689.0

RESTRICTED WORK AREA

The Contractor's work limits shall be confined to the area within the existing right-of-way for the parcels noted below until late March of 2016. The Engineer will notify the Contractor of the date when work outside of the existing right-of-way may proceed.

- Parcel No. 37A on US Hwy 18 (Wetland Mitigation Site)
- All Parcels with the term "Allotment" in the owner description as denoted on the Plan Sheets

SECTION C – ESTIMATE OF QUANTITIES - NH-PH 0018(177)104

Bid Item Number	Item	Quantity	Unit
634E0010	Flagging	6,000.000	Hour
634E0020	Pilot Car	2,000.000	Hour
634E0100	Traffic Control SIGNS	1,696.000	SQFT
634E0120	Traffic Control, Miscellaneous	1.000	LS
634E0280	Type 3 Barricade, 8' Single Sided	20.000	Each
634E0630	Temporary Pavement Marking	68.000	Each

SECTION C – ESTIMATE OF QUANTITIES – P 0391(06)0

Bid Item Number	Item	Quantity	Unit
634E0010	Flagging	1,000.000	Hour
634E0020	Pilot Car	500.000	Hour
634E0100	Traffic Control SIGNS	294.000	SQFT
634E0120	Traffic Control, Miscellaneous	1.000	LS
634E0630	Temporary Pavement Marking	14.000	Mile

SEQUENCE OF OPERATIONS

Work shall proceed in accordance with the following sequence:

Phase 1 of the project will be the completion of the grading and surfacing from MRM 104.289 to the intersection of BIA Hwy 27 at approximate MRM 113 (Sta 497+80).

Phase 2 of the project will be the completion of the grading and surfacing from MRM 113 (Sta 497+80) to MRM 121.21 on US 18 and the mill and overlay of Hwy 391.

The Contractor will be allowed a maximum of 5 mile-lanes closed in succession at one time.

The Contractor will have placement of base course, topsoil, and permanent erosion control measures in the first 3 miles of the 5 mile closure before the Contractor can begin earth moving operations in miles 6 to 8. The base course will be bladed to create a wedge along the edge of the roadway to eliminate any drop offs before the Contractor will be allowed to work in miles 6 to 8.

The Contractor will not be allowed to work on the shoulder on opposite sides of the roadway at the same time and a vertical drop on both sides of the roadway will not be allowed. Prior to opening a lane of traffic, the grading shall be brought up so that the maximum vertical drop on the shoulder is 16".

Prior to opening a lane of traffic, drop offs on the shoulder shall be marked with signs and delineated with drums, 42" cones, or vertical panels at a maximum of 100' spacing. Drums or 42" cones will only be allowed when they will meet the minimum height requirements in the MUTCD of 28" above the driving surface. When the vertical drop off prevents the minimum 28" height requirement, vertical panels shall be placed on the edge of the driving surface. The Contractor shall have sufficient quantity of vertical panels on site to mark drop offs in the event of an emergency, or weather delays the resumption of work. Payment for signs shall be at the contract unit price for Traffic Control per unit. The cost for the drums, 42" cones, and vertical panels shall be incidental to the contract lump sum price for Traffic Control Miscellaneous.

The Contractor will restore traffic to one lane each direction at the end of the day, prior to nightfall. Prior to opening the roadway to traffic the Contractor shall clean the roadway surface each day.

Pipe replacement shall be phased ½ at a time to maintain an open lane of traffic unless specified differently in the Special Provision for Contract Time.

All grading work must be completed before surfacing can begin for each phase.

While the Contractor is present and work is being completed, the Contractor will be allowed to pilot car the traffic in a single lane through the project with minimal delineation. The Contractor will be required to restore traffic to one lane each direction prior to suspending work at the end of each day. The Contractor shall coordinate his work so that all requirements for opening traffic to one lane each direction can be met prior to nightfall and/or forecasted weather events.

A minimum lane width of 11' shall be maintained on the existing roadway through work areas. The Contractor shall adjust traffic control items to accommodate over width vehicles when necessary, up to 17' wide.

Requests to deviate from the sequence of operations shall be submitted in writing to the Engineer for review. Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequence of the work. An alternate sequence shall be submitted for review a minimum of one week prior to potential implementation.

GENERAL MAINTENANCE OF TRAFFIC

Traffic shall not be delayed for a cumulative period longer than 15 minutes throughout the project.

At pipe installation locations the Contractor shall place the new pipe, place gravel surfacing and have the road open to traffic at the end of the day.

Cones with a height of 42" will be allowed in areas where drums will not fit on the road for maintaining traffic.

Vehicles working in traffic or alongside traffic shall be equipped with a flashing amber light visible from all directions. The amber light shall be mounted on the uppermost part of the vehicle. Lights must have peak intensity within the range of 40 to 400 candelas and must flash at 75 ± 15 flashes per minute. Vehicle flasher/hazard lights are not acceptable.

Traffic control shall be in accordance with MUTCD Standards, the Specifications and these plans.

The Contractor shall keep the portion of the project being used by public traffic in a condition that will adequately and safely accommodate traffic. A power broom will be required to clean all loose debris off of paved surfacing. All costs associated with brooming will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

Storage of vehicles, materials and equipment shall be outside the clear zone and as near as possible to the right-of-way line. Contractor's employees should mobilize at a location off the right-of-way and arrive at the work sites in a minimum number of vehicles necessary to perform the work.

Non-applicable signing will be covered or removed and reset during periods of in-activity. All costs to do this work shall be incidental to the contract lump sum for Traffic Control, Miscellaneous.

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

The pilot car shall be a four wheeled vehicle with the Contractor's name prominently displayed on both sides of the vehicle. A 36" x 18" black on orange sign G20-4, PILOT CAR (top line) FOLLOW ME (bottom line) shall be mounted in a conspicuous position on the rear of the vehicle. The pilot car will be equipped with a flashing amber light.

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

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed location, ground mounted, breakaway supports at the time of initial installation.

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

Work activities shall only be during daylight hours. Daylight hours are considered to be ½ hour before sunrise until ½ hour after sunset.

The Contractor or designated traffic control subcontractor shall make night (after dark) inspections at the initial set up of traffic control and every week thereafter to ensure the adequacy, legibility and reflectivity of each sign and device. A written summary of each inspection shall be given to the Engineer within 24 hours after completion of the inspection. The cost for the nighttime inspection work shall be incidental to the related contract items.

GENERAL MAINTENANCE OF TRAFFIC (CONTINUED)

The Contractor shall communicate with and provide passage for school buses, public transportation, and EMS vehicles during all phases of construction.

The Contractor shall be required to have a person available 24 hour/day, 7 days/week to maintain traffic control devices. The name and cellular telephone number of this individual shall be given to the Engineer at the preconstruction meeting.

During periods of working hours the Contractor shall maintain one lane of traffic through the construction zone at all times with traffic being controlled with a pilot car.

The Contractor shall place Bump signs where appropriate.

The quantity of signs paid for will be for the most installations per sign in place at any one time regardless of the number of set-ups on the project.

The Contractor shall not allow mainline traffic to run on a milled surface at any location on the project for more than 14 calendar days.

TEMPORARY PAVEMENT MARKING

The Contractor shall place temporary pavement marking. Temporary pavement marking paint shall be used on the milled surface. Temporary Flexible Vertical Markers (Tabs) shall be used on the finished asphalt surface. Temporary pavement markings for the centerline of the roadway throughout the full length of the project shall meet the requirements of Section 634 of the Specifications. A cycle length of 20 feet shall be used. Covers on tabs shall be removed prior to opening roadway to normal traffic flow.

The Contractor shall use protective marker covers to be removed after the application of the flush seal.

The Contractor shall be responsible for maintaining a visible and reflective centerline throughout the project. Any marking covered or damaged shall be replaced prior to the end of the day. All costs associated with this work shall be incidental to the contract unit price per mile for Temporary Pavement Marking.

In addition, No Passing Zone areas shall be marked by signs as noted below.

The Contractor shall use DO NOT PASS and PASS WITH CARE signs to mark no passing zones. These signs will be State provided and payment for install shall be covered by the contract quantity for the Install State Furnished Sign bid item.

Flagger symbol signs (W20-7) and flaggers, or a shadow vehicle equipped with high-intensity rotating, flashing, oscillating or strobe lights shall be positioned on the roadway shoulder in advance of the workers for the installation of temporary road markers. The traffic control device used shall be moved to provide proper warning of the work operation. A ROAD WORK AHEAD (W20-1) sign, a worker symbol sign (W21-1) or a BE PREPARED TO STOP (W3-4) sign shall be mounted on the rear of the shadow vehicle. The method of traffic control used by the Contractor for this work shall be approved by the Engineer.

All costs for temporary pavement marking including furnishing, applying, uncovering, maintenance and removal of tabs shall be incidental to the contract unit price per mile for Temporary Pavement Marking.

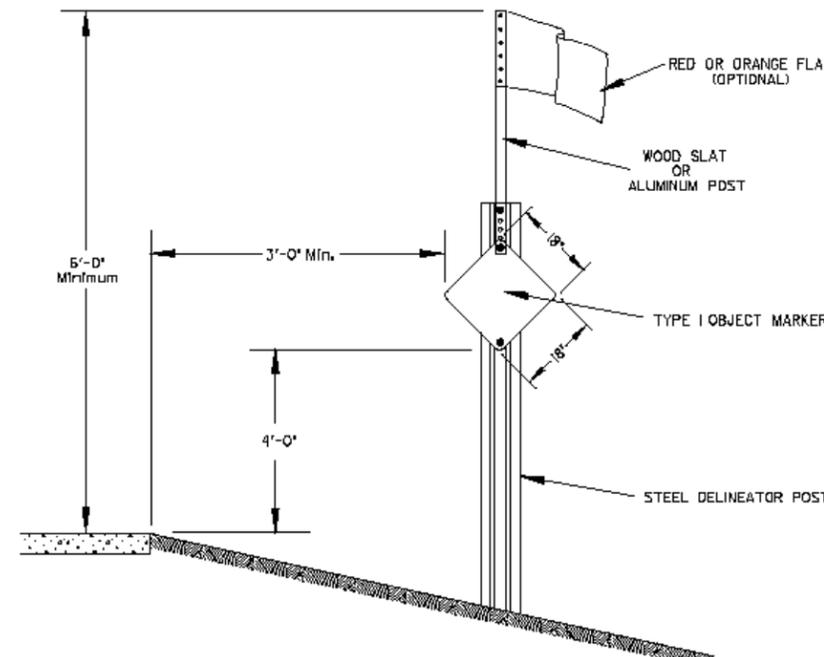
BUMP MARKERS

Bump markers shall be placed adjacent to the bump location.

After placing the bump markers, "Bump" warning signs with the appropriate speed advisory plates shall be placed 500 feet to 750 feet in advance of the bump location in rural areas, or 250 feet to 500 feet in advance of the bump location in urban areas. These distances may be adjusted by the Engineer if local conditions do not allow the placement of warning signs within the specified areas.

The steel delineator post shall be 1.12 lb/ft flanged channel post for ground mounted installation. If the duration is less than 3 days, the Type 1 Object Marker can be installed on temporary supports.

Payment for bump markers shall be incidental to the contract lump sum price for Traffic Control, Miscellaneous.



SIGN INVENTORY

PCN 02QC

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R2-1	SPEED LIMIT	2	24" x 30"	5	10
R2-6aP	FINES DOUBLE (plaque)	4	24" x 18"	3	12
R4-7	KEEP RIGHT (symbol)	2	24" x 30"	5	10
W1-4	REVERSE CURVE (L or R)	2	48" x 48"	16	32
W1-6	LARGE ARROW (one direction)	4	48" x 24"	8	32
W3-4	BE PREPARED TO STOP	4	48" x 48"	16	64
W3-5	SPEED REDUCTION AHEAD (___ MPH)	4	48" x 48"	16	64
W8-1	BUMP	10	48" x 48"	16	160
W8-6	TRUCK CROSSING	4	48" x 48"	16	64
W8-7	LOOSE GRAVEL	8	48" x 48"	16	128
SPECIAL	WINDROW	2	36" x 36"	9	18
W8-9a	SHOULDER DROP-OFF	2	48" x 48"	16	32
W13-1P	ADVISORY SPEED (plaque)	8	30" x 30"	6	48
W20-1	ROAD WORK AHEAD	20	48" x 48"	16	320
W20-4	ONE LANE ROAD AHEAD	4	48" x 48"	16	64
W20-7	FLAGGER (symbol)	4	48" x 48"	16	64
W21-2	FRESH OIL	8	48" x 48"	16	128
W21-3	ROAD MACHINERY AHEAD	2	48" x 48"	16	32
W21-5a	LEFT or RIGHT SHOULDER CLOSED	4	48" x 48"	16	64
G20-1	ROAD WORK NEXT ___ MILES	4	36" x 18"	5	20
G20-2	END ROAD WORK	20	36" x 18"	5	100
SPECIAL	OVERWIDTH SIGN	4	96" x 84"	56	224
-	TYPE III OBJECT MARKER	2	12" x 36"	3	6
				CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT 1696	

PCN 02NH

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W3-4	BE PREPARED TO STOP	2	48" x 48"	16	32
W8-1	BUMP	2	48" x 48"	16	32
SPECIAL	WINDROW	2	36" x 36"	9	18
W20-1	ROAD WORK AHEAD	4	48" x 48"	16	64
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16	32
W20-7	FLAGGER (symbol)	2	48" x 48"	16	32
W21-2	FRESH OIL	4	48" x 48"	16	64
G20-2	END ROAD WORK	4	36" x 18"	5	20
				CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT 294	

PRESS RELEASE ANNOUNCEMENTS

The DOT will prepare a Press Release to be released 48 hours prior to any phase change or any other major change that affects traffic flow. The DOT will be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. The Contractor shall provide the Engineer with pertinent information 4 days prior to any major change that affects traffic flow.