

STATE OF SOUTH DAKOTA **FOR BIDDING PURPOSES ONLY**
 DEPARTMENT OF TRANSPORTATION

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH0016(79)67	1	338
PLOTING DATE: 12-2-15		REV 12-02-15 JRV	

PLANS FOR PROPOSED
PROJECT NH 0016(79)67
US HIGHWAY 16
PENNINGTON COUNTY

GRADING, PCC PAVEMENT, C&G,
 STORM SEWER, LIGHTING, SIGNALS &
 PCC PAVEMENT REPAIR
 PCN 027C

EXCEPTION
 Station 99+85.55 to
 Station 101+84.57

INDEX OF SECTIONS

- Section A: Estimate of Quantities
- Section B: Grading Plans
- Section C: Traffic Control Plans
- Section D: Erosion And Sediment Control Plans
- Section F: Surfacing Plans
- Section L: Signal and Lighting Plans
- Section M: Pavement Marking Plans
- Section S: Permanent Signing Plans
- Section X: Cross Sections



CIVIL PLANS PREPARED BY:

Ferber Engineering Company, Inc.
 Civil Engineering • Water Resources • Transportation • Land Surveying • GIS
 729 East Watertown St., Rapid City, SD 57701 ~ www.ferberengineering.com
 Phone: (605) 343-3311 ~ Fax: (605) 343-3399

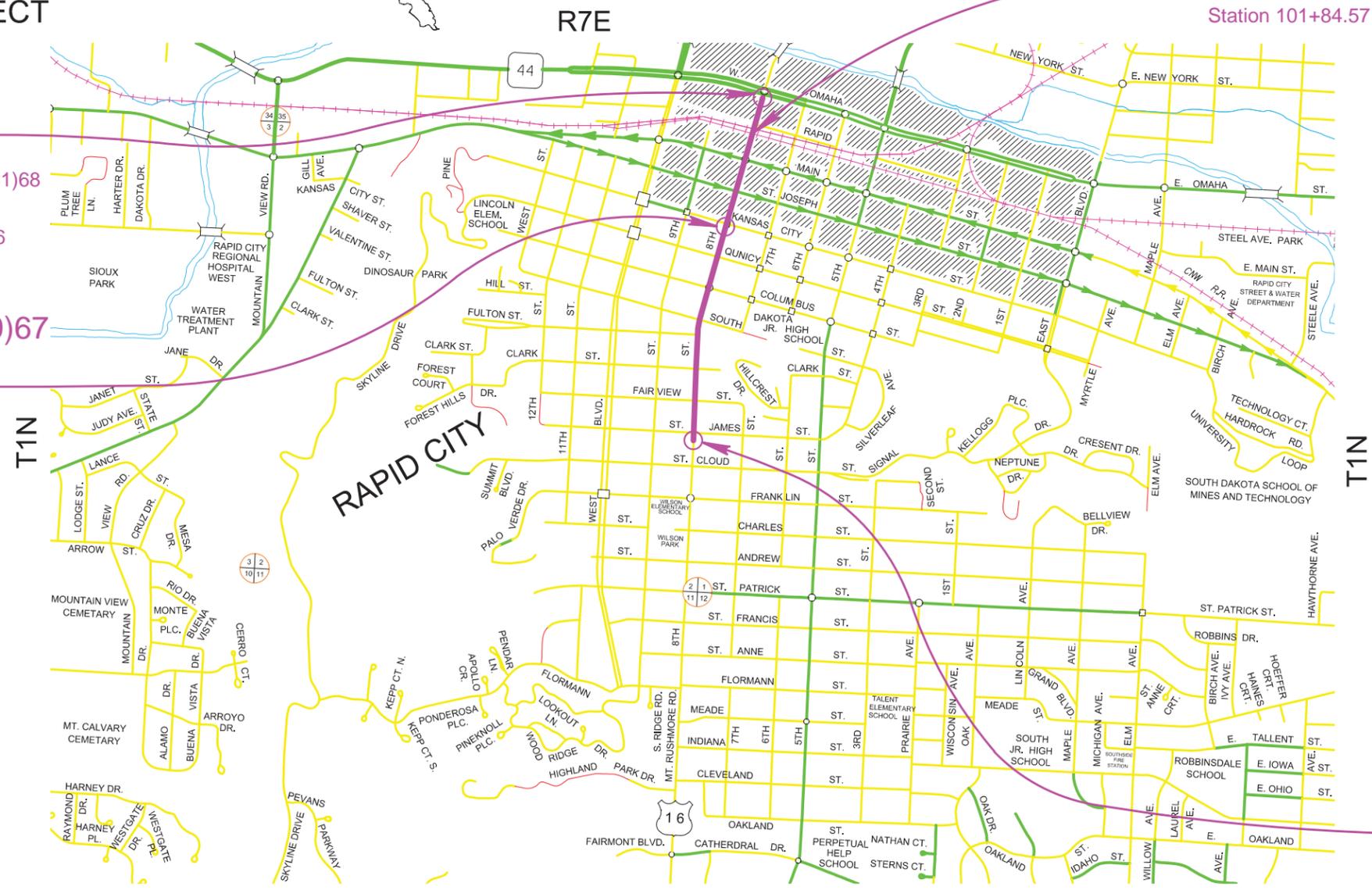


ELECTRICAL PLANS PREPARED BY:

WPE WEST PLAINS ENGINEERING, INC.

END NH 0016(79)67
 Mt. Rushmore Rd.
 Station 103+76.67 = 116+92.1 on NH0016(31)68
 Approximately 120.27 feet South of the
 Intersection of Omaha Street and US Hwy 16
 MRM = 68.91+.056

END GRADING NH 0016(79)67
BEGIN PCC PAVEMENT REPAIR
 Mt. Rushmore Rd.
 Station 88+01.30



DESIGN DESIGNATION

ADT (2014)	24535
ADT (2039)	47230
DHV	7179
D	51%
T DHV	2.0%
T ADT	4.5%
V	35 mph

STORM WATER PERMIT
 Major Receiving
 Body of Water: Rapid Creek
 Area Disturbed: 11 Acres
 Total Project Area: 13 Acres
 Approx. Begin Lat/Long 44.0405/103.1357

GROSS LENGTH	4126.67	0.782 MILES
GROSS LENGTH GRADING	2551.30	0.483 MILES
LENGTH OF EXCEPTIONS	199.02	0.038 MILES
NET LENGTH	3927.65	0.744 MILES

BEGIN NH 0016(79)67
BEGIN GRADING
 Mt. Rushmore Rd.
 Station 62+50.00 = 1306+94.1 on U017-1(03)
 Approximately 279 feet North of intersection
 of St. Cloud Street and US Hwy 16
 MRM = 68.19+.053

3

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(79)67	A1	A5

Grading – Section B

Grading – Section B (Cont'd)

01-22-16 by NAS

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3230	Grade Staking	3.051	Mile
009E3250	Miscellaneous Staking	0.705	Mile
009E3280	Slope Staking	0.705	Mile
009E3290	Structure Staking	13	Each
009E3300	Three Man Survey Crew	100.0	Hour
009E4300	Construction Schedule, Category III	Lump Sum	LS
100E0020	Clear and Grub Tree	7	Each
100E0100	Clearing	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	893	Ft
110E0310	Remove Concrete Curb	43	Ft
110E0320	Remove Concrete Gutter	583	Ft
110E0400	Remove Drop Inlet	31	Each
110E0460	Remove Manhole	17	Each
110E1010	Remove Asphalt Concrete Pavement	5,016.1	SqYd
110E1100	Remove Concrete Pavement	21,945.4	SqYd
110E1110	Remove Concrete Approach Pavement	575.8	SqYd
110E1130	Remove Concrete Driveway Pavement	470.2	SqYd
110E1140	Remove Concrete Sidewalk	5,347.3	SqYd
110E1300	Remove Concrete Retaining Wall	2,126.1	Ft
120E0010	Unclassified Excavation	15,571	CuYd
120E0600	Contractor Furnished Borrow Excavation	250	CuYd
120E0900	Contaminated Material Excavation	100	CuYd
120E2000	Undercutting	9,086	CuYd
120E6100	Water for Embankment	131.5	MGal
205E0010	Dust Control Chloride	500	Lb
250E0020	Incidental Work, Grading	Lump Sum	LS
270E0020	Salvage and Stockpile Asphalt Mix Material	2,880.0	Ton
380E3540	8" PCC Approach Pavement	832.2	SqYd
380E3542	8" Fast Track Concrete Approach Pavement	138.0	SqYd
* 380E4010	6" PCC Fillet Section	12.8	SqYd
380E4090	10" PCC Fillet Section	711.7	SqYd
420E0300	Structure Excavation, Retaining Wall	100	CuYd
421E0100	Pipe Culvert Undercut	100	CuYd
421E1000	Footing Undercut	97	CuYd
450E0103	12" RCP Class 3, Furnish	4	Ft
450E0110	12" RCP, Install	4	Ft
450E0123	18" RCP Class 3, Furnish	2,046	Ft
450E0130	18" RCP, Install	2,046	Ft
450E0143	24" RCP Class 3, Furnish	184	Ft
450E0150	24" RCP, Install	184	Ft
450E0182	36" RCP Class 2, Furnish	94	Ft
450E0190	36" RCP, Install	94	Ft
450E0192	42" RCP Class 2, Furnish	1,500	Ft

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
450E0200	42" RCP, Install	1,500	Ft
450E0202	48" RCP Class 2, Furnish	816	Ft
450E0210	48" RCP, Install	816	Ft
450E0416	24" RCP Bend, Furnish	2	Each
450E0417	24" RCP Bend, Install	2	Each
450E0700	RCP Tee, Furnish	10	Each
450E0701	RCP Tee, Install	10	Each
450E0900	RCP Cross, Furnish	1	Each
450E0901	RCP Cross, Install	1	Each
450E1200	RCP Increaser, Furnish	1	Each
450E1201	RCP Increaser, Install	1	Each
450E7001	8" High Density Polyethylene Pipe, Furnish	126	Ft
450E7002	8" High Density Polyethylene Pipe, Install	126	Ft
450E8450	Storm Sewer Video Inspection	2,230	Ft
451E3124	24" Pipe Cap	1	Each
462E0100	Class M6 Concrete	192.8	CuYd
464E0100	Controlled Density Fill	50.0	CuYd
470E0020	Pipe Handrail	383.3	Ft
470E0040	Steel Pedestrian Railing	732.1	Ft
480E0100	Reinforcing Steel	37,643	Lb
530E0310	Special Type C Concrete Retaining Wall	1,693	SqFt
530E0470	Gravity Large Concrete Block Wall	2,838	SqFt
600E0200	Type II Field Laboratory	1	Each
621E0040	4' Chain Link Fence with Top Rail	55	Ft
621E0410	Pedestrian Swing Gate	1	Each
* 650E0060	Type B66 Concrete Curb and Gutter	268	Ft
650E0060	Type B66 Concrete Curb and Gutter	1,164	Ft
650E0100	Type B610 Concrete Curb and Gutter	6,491	Ft
650E1100	Type F610 Concrete Curb and Gutter	69	Ft
650E4660	Type P6 Concrete Gutter	738	Ft
650E4700	Type P10 Concrete Gutter	296	Ft
* 651E0040	4" Concrete Sidewalk	199	SqFt
651E0040	4" Concrete Sidewalk	37,944	SqFt
651E0160	6" Reinforced Concrete Sidewalk	402	SqFt
651E0540	4" Colored Concrete Sidewalk	34,829	SqFt
651E0760	6" Reinforced Colored Concrete Sidewalk	727	SqFt
651E7000	Type 1 Detectable Warnings	460	SqFt
670E1200	Type B Frame and Grate Assembly	66	Each
670E3300	Type E Frame and Grate	1	Each
670E5340	4' x 11' Precast Concrete Type S Drop Inlet Lid	1	Each
670E5342	4' x 6' Precast Concrete Type S Drop Inlet Lid	1	Each
670E5400	Precast Drop Inlet Collar	67	Each
671E5502	2" Adjusting Ring for Manhole	7	Each
671E6010	Type A10 Manhole Frame and Lid	2	Each

INDEX OF SHEETS

A1	Estimate of Quantities for Section B
A2	Estimate of Quantities for Sections C, D and F
A3	Estimate of Quantities for Sections L, Mand S
A4 to A5	Environmental Commitments

Grading – Section B (Cont'd)

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
680E0040	4" Underdrain Pipe	968	Ft
900E0015	Multiple Mailbox Support	1	Each
900E0900	Curb Stop	36	Each
900E5145	Bollard	6	Each
998E0100	Railroad Protective Insurance	Lump Sum	LS

* - Denotes Non-Participating

Traffic Control – Section C

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	12,000.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	2,519	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0130	Traffic Control Supervisor	50.0	Day
634E0285	Type 3 Barricade, 8' Double Sided	68	Each
634E0330	Temporary Raised Pavement Markers	7,000	Ft
634E0380	Tubular Marker	285	Each
634E0420	Type C Advance Warning Arrow Board	4	Each
634E0560	Remove Pavement Marking, 4" or Equivalent	3,000	Ft
634E0640	Temporary Pavement Marking	88,000	Ft
634E0915	Short Term Temporary Traffic Control Signal	1	Site
634E1002	Detour Signing	170.0	SqFt
634E1020	Temporary Business Signing	1,263.0	SqFt
634E1215	Contractor Furnished Portable Changeable Message Sign	3	Each
634E1255	Contractor Furnished Speed Monitoring Radar Trailer	2	Each
634E2000	Longitudinal Pedestrian Barricade	1,000	Ft
634E2050	Temporary Sidewalk	4,000	SqFt
900E1080	Orange Plastic Safety Fence	2,500	Ft

SPECIFICATIONS

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

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(79)67	A2	A5

Erosion and Sediment Control – Section D

Surfacing – Section F

Signal & Lighting – Section L 01-22-15 by NAS

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1690	Remove Sediment	18.0	CuYd
110E1693	Remove Erosion Control Wattle	75	Ft
110E1695	Remove Sediment Filter Bag	612	Ft
110E1697	Remove Triangular Silt Barrier	288	Ft
110E1700	Remove Silt Fence	418	Ft
120E6300	Water for Vegetation	40.2	MGal
230E0020	Placing Contractor Furnished Topsoil	196	CuYd
731E0100	Fertilizing	60	Lb
733E0100	Sodding	2,236	SqYd
734E0042	Soil Stabilizer	577.0	SqYd
734E0154	12" Diameter Erosion Control Wattle	300	Ft
734E0165	Remove and Reset Erosion Control Wattle	75	Ft
734E0180	Sediment Filter Bag	2,447	Ft
734E0425	Triangular Silt Barrier	1,152	Ft
734E0604	High Flow Silt Fence	1,670	Ft
734E0610	Mucking Silt Fence	116	CuYd
734E0620	Repair Silt Fence	418	Ft
734E0845	Sediment Control at Inlet with Frame and Grate	68	Each
734E0847	Sediment Control at Type S Reinforced Concrete Drop Inlet	18	Ft
734E3100	Portable Sediment Containment System	1	Each
734E5000	Dewatering	100	Hour
734E5010	Sweeping	250	Hour
900E1320	Construction Entrance	8	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E3320	Checker	Lump Sum	LS
* 120E6200	Water for Granular Material	3.1	MGal
120E6200	Water for Granular Material	290.4	MGal
* 260E2010	Gravel Cushion	259.0	Ton
260E2010	Gravel Cushion	24,210.9	Ton
* 320E1200	Asphalt Concrete Composite	97.8	Ton
320E1200	Asphalt Concrete Composite	1,649.6	Ton
320E2000	Maintenance Patching	100.0	Ton
380E0090	10" Nonreinforced PCC Pavement	15,530.6	SqYd
380E2574	4" Barrier Type Colored and Patterned Median PCC Pavement	208.3	SqYd
380E3040	8" PCC Driveway Pavement	733.7	SqYd
380E3042	8" Fast Track Concrete Driveway Pavement	29.8	SqYd
380E5010	Fast Track Concrete	1,594.5	SqYd
380E6000	Dowel Bar	8,703	Each
380E6110	Insert Steel Bar in PCC Pavement	322	Each
380E9010	Temporary Gravel Crossing	6	Each
390E0100	Saw and Seal Joint	202	Ft
390E0200	Repair Type A Spall	72.5	SqFt
831E0300	Reinforcement Fabric (MSE)	11,399	SqYd
900E1350	Temporary Surfacing	3,000.0	SqFt

* - Denotes Non-Participating

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E1520	Remove Signal Equipment	Lump Sum	LS
110E1530	Remove Signal Pole Footing	9	Each
110E1540	Remove Luminaire Pole Footing	12	Each
110E1570	Remove Pedestrian Push Button Pole	1	Each
110E5100	Salvage Luminaire Pole	12	Each
110E5110	Salvage Signal Equipment	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
635E0900	Decorative Luminaire Pole	12	Each
635E0910	Decorative Luminaire Arm	12	Each
635E2362	Decorative Signal Pole with 20' Mast Arm and Luminaire Arm	2	Each
635E2368	Decorative Signal Pole with 40' Mast Arm and Luminaire Arm	1	Each
635E2372	Decorative Signal Pole with 50' Mast Arm and Luminaire Arm	1	Each
635E3450	Decorative Luminaire, 150 Watt with Photoelectric Cell	12	Each
635E3460	Decorative Luminaire, 400 Watt with Photoelectric Cell	16	Each
635E4030	3 Section Vehicle Signal Head	12	Each
635E4040	4 Section Vehicle Signal Head	4	Each
635E5020	2' Diameter Footing	96.0	Ft
635E5030	3' Diameter Footing	47.0	Ft
* 635E5301	Type 1 Electrical Junction Box	2	Each
635E5302	Type 2 Electrical Junction Box	23	Each
635E5303	Type 3 Electrical Junction Box	4	Each
635E5304	Type 4 Electrical Junction Box	8	Each
* 635E5400	Electrical Service Cabinet	2	Each
635E5400	Electrical Service Cabinet	4	Each
635E5430	Traffic Signal Controller	1	Each
* 635E5500	Meter Socket	2	Each
635E5500	Meter Socket	4	Each
635E5515	Signal Head Battery Backup and Flash System	1	Each
635E5530	Preformed Detector Loop	18	Each
635E5550	Detector Unit	6	Each
635E5562	Siren Emergency Vehicle Preemption System	1	Each
635E5900	Pedestrian Push Button	8	Each
635E5910	Pedestrian Push Button Pole	8	Each
635E5922	Pedestrian Signal Head with Countdown Timer	8	Each
635E5930	Pedestrian Crossing Sign	8	Each
635E6200	Miscellaneous, Electrical	Lump Sum	LS
* 635E8120	2" Rigid Conduit, Schedule 40	185	Ft
635E8120	2" Rigid Conduit, Schedule 40	6,345	Ft
635E8140	4" Rigid Conduit, Schedule 40	20	Ft
* 635E8220	2" Rigid Conduit, Schedule 80	105	Ft
635E8220	2" Rigid Conduit, Schedule 80	1,370	Ft
635E8230	3" Rigid Conduit, Schedule 80	260	Ft

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(79)67	A3	A5

Signal & Lighting – Section L (Cont'd)

Pavement Marking – Section M

Permanent Signing – Section S 01-22-15 by NAS

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
635E8240	4" Rigid Conduit, Schedule 80	120	Ft
* 635E9012	1/C #2 AWG Copper Wire	30	Ft
635E9012	1/C #2 AWG Copper Wire	60	Ft
635E9014	1/C #4 AWG Copper Wire	1,185	Ft
635E9016	1/C #6 AWG Copper Wire	15,255	Ft
* 635E9018	1/C #8 AWG Copper Wire	14,265	Ft
* 635E9020	1/C #10 AWG Copper Wire	335	Ft
635E9020	1/C #10 AWG Copper Wire	9,130	Ft
635E9504	4/C #14 AWG Copper Tray Cable, K2	1,790	Ft
635E9507	7/C #14 AWG Copper Tray Cable, K2	460	Ft
635E9524	24/C #14 AWG Copper Tray Cable, K2	560	Ft
635E9600	#16 AWG Copper Twisted Shielded Pair	975	Ft
635E9710	2/C #10 AWG Copper Pole and Bracket Cable	920	Ft
635E9948	48 Strand Fiber Optic Cable	3,090	Ft

* - Denotes Non-Participating

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
633E0010	Cold Applied Plastic Pavement Marking, 4"	4,003	Ft
633E0020	Cold Applied Plastic Pavement Marking, 8"	181	Ft
633E0030	Cold Applied Plastic Pavement Marking, 24"	1,759	Ft
633E0040	Cold Applied Plastic Pavement Marking, Arrow	27	Each
633E1400	Pavement Marking Paint, 4" White	1,849	Ft
633E1405	Pavement Marking Paint, 4" Yellow	2,681	Ft
633E1410	Pavement Marking Paint, 8" White	63	Ft
633E1430	Pavement Marking Paint, 24" White	23	Ft
633E1435	Pavement Marking Paint, 24" Yellow	190	Ft
633E1445	Pavement Marking Paint, Arrow	6	Each
633E5000	Grooving for Cold Applied Plastic Pavement Marking, 4"	4,003	Ft
633E5005	Grooving for Cold Applied Plastic Pavement Marking, 8"	181	Ft
633E5015	Grooving for Cold Applied Plastic Pavement Marking, 24"	1,759	Ft
633E5025	Grooving for Cold Applied Plastic Pavement Marking, Arrow	27	Each

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
110E5020	Salvage Traffic Sign	62	Each
632E1320	2.0"x2.0" Perforated Tube Post	493.2	Ft
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	429.2	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	105.5	SqFt
632E3520	Remove, Salvage, Relocate, and Reset Traffic Sign	26	Each

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(79)67	A4	A5

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

COMMITMENT D: WATER QUALITY STANDARDS

COMMITMENT D2: SURFACE WATER DISCHARGE

Rapid Creek is classified as a cold water permanent fishery with a Surface Water Discharge standard of 30 milligrams/liter total suspended solids.

Action Taken/Required:

If construction dewatering is required, the Contractor shall obtain a Temporary Discharge Permit from the DENR and provide a copy to the Project Engineer. Contact the DENR Surface Water Program at 605-773-3351 to apply for a permit.

COMMITMENT E: STORM WATER

Construction activities constitute 1 acre or more of earth disturbance.

Action Taken/Required:

The DENR and the US Environmental Protection Agency (EPA) have issued separate general permits for the discharge of storm water runoff. The DENR permit applies to discharges on state land and the EPA permit applies to discharges on federal or reservation land. The Contractor is advised this project is regulated under the Phase II Storm Water Regulations and must receive coverage under the General Permit for Construction Activities. A Notice of Intent (NOI) will be submitted to DENR a minimum of 15 days prior to project start by the DOT Environmental Office. A letter must be received from DENR that acknowledges project coverage under this general permit before project start. The Contractor is advised that permit coverage may also be required by off-site activities, such as borrow and staging areas, which are the responsibility of the Contractor.

The Contractor shall adhere to the "Special Provision Regarding Storm Water Discharges to Waters of the State".

A major component of the storm water construction permits is development and implementation of a Storm Water Pollution Prevention Plan (SWPPP), which is a joint effort and responsibility of the SDDOT and the Contractor. Erosion control measures and best management practices will be implemented in accordance with the SWPPP. The SWPPP is a dynamic document and is to be available on-site at all times.

Information on storm water permits and SWPPPs are available on the following websites:

SDDOT:

<http://sddot.com/transportation/highways/environmental/stormwater/Default.aspx>

DENR: <http://www.denr.sd.gov/des/sw/stormwater.aspx>

EPA: http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Contractor Certification Form:

The "Department of Environmental and Natural Resources – Contractor Certification Form" (SD EForm – 2110LDV1-ContractorCertification.pdf) shall be completed by the Contractor or their certified Erosion Control Supervisor after the award of the contract. Work may not begin on the project until this form is signed.

The form certifies under penalty of law that the Contractor understands and will comply with the terms and conditions of the Surface Water Discharge General Permit for Storm Water Discharges Associated with Construction Activities for the Project.

The online form can be found at:

<http://denr.sd.gov/des/sw/eforms/E2110LDV1-ContractorCertification.pdf>

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained

through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH 0016(79)67	A5	A5

01-20-16 by NAS

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT K: RAPID CITY AREA AIR QUALITY CONTROL ZONE

Administrative Rule of South Dakota (ARSD) 74:36:18:03 states that "no state facility or state contractor may engage in any construction activity or continuous operation activity within the Rapid City air quality control zone which may cause fugitive emissions of particulate to be released into the ambient air without first obtaining a permit issued by the board or the secretary."

Construction activity is defined as any temporary activity at a state facility, which involves the removal or alteration of the natural or pre-existing cover of one acre or more of land. One acre of surface area is based on a cumulative area of disturbance to be completed for the entire project. Construction activity shall include, but not be limited to, stripping of topsoil, drilling, blasting, excavation, dredging, ditching, grading, street maintenance and repair, or earth moving. Construction activity is generally completed within one year. It also includes stockpiles, access roads, and disposal areas. An off-site disposal area of excess material will require an additional permit.

Action Taken/Required:

In order to be considered eligible for authorization to conduct a construction activity under the terms and conditions of this permit, the owner operator must submit a Notice of Intent (NOI) form. The form must be submitted to the address below at least seven business days prior to the anticipated date of beginning the construction activity.

South Dakota Department of Environment and Natural Resources Air Quality Program
523 East Capitol, Joe Foss Building
Pierre, SD 57501-3181
Phone: 605-773-3151

The permit requires the Contractor to use reasonably available technology to control fugitive dust emissions. The Contractor is required to use control measures for track out, paved areas, unpaved roads, unpaved parking lots, disturbed areas, and for material handling and storage. The control measures that the Contractor is required to use are listed in the permit.

COMMITMENT L: CONTAMINATED MATERIAL

There are known gas stations, undergrounds storage tanks, etc. are located within the project limits. Petroleum contaminated soil may be located at the following sites:

Description	Station	L / R
Bob's Philip 66 [gas station]	85+39.4 – 86+79.4	L
SE quadrant of Mt. Rushmore Road and Fairview Street	67+00	R

Action Taken/Required:

The Contractor shall give notice to the Engineer when contaminated soil is encountered on the project. The Engineer will contact the SDDOT Environmental Engineer, at 605-773-3180, so that contact with the Department of Environment and Natural Resources (DENR) and consultant to inspect and monitor removal of any contaminated soil can be initiated.

The Contractor shall be responsible for having the existing underground utilities located in the construction area. Underground utilities damaged by the Contractor due to negligence shall be repaired at the Contractor's expense.

Petroleum contaminated soil may be disposed of at the City of Rapid City Regional Landfill (phone 605-355-3496). Measurement of "Contaminated

Material Excavation" shall be in accordance with Section 120.4 of the Standard Specifications. All costs for excavating and transporting the contaminated materials to the disposal site and all fees charged per cubic yard by the disposal site shall be incidental to the contract unit price per cubic yard for "Contaminated Material Excavation".

The estimated quantity of "Contaminated Material Excavation" is 100 cubic yards. The quantity of "Contaminated Material Excavation" may vary from the plans. No adjustment will be made to the contract unit price for variations in the quantity of "Contaminated Material Excavation". The estimated quantity of "Contaminated Material Excavation" is provided in Section B – Grading plans.