

STATE OF SOUTH DAKOTA	PROJECTS	SHEET NO.	TOTAL SHEETS
	P 00SW (16) / P 6542 (01) P 6542 (02) / P 6542 (03)	1	209
FILE: ...*Sheet_Files*A1.dgn PLOTING DATE: 02-16-2015		REV DATE: INITIAL:	

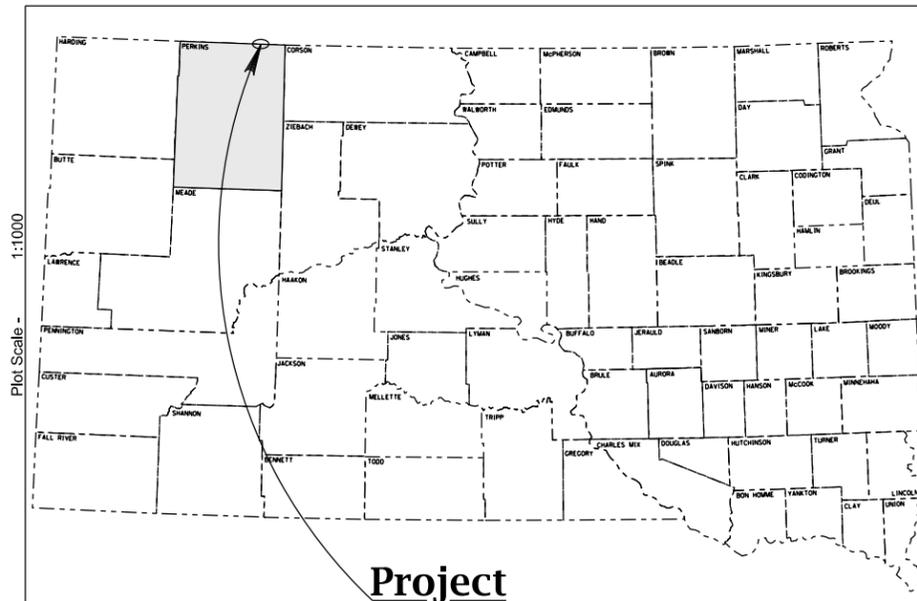
PLANS FOR PROPOSED
Projects
 P 00SW(16), P 6542(01),
 P 6542(02), & P6542(03)

**RAILWAY STREET FROM
 23RD STREET SE TO MAIN AVENUE
 ADAMS COUNTY, NORTH DAKOTA &
 PERKINS COUNTY, SOUTH DAKOTA**

Grading, Curb & Gutter, Storm Sewer, Asphalt Concrete Surfacing,
 Pavement Markings, and Permanent Signing
 PCNs 051L, 051Q, 051T, & 051U

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Project

Plot Scale - 1:1000

BEGIN P 00SW(16)
 Station 10+96.40
 Approx. 461.42' North and
 1817.03' West of the NW
 corner of Section 20 -
 Township 23 North -
 Range 16 East of the
 Black Hills P.M.

END P 6542(02)
 Station 60+72.3
 BEGIN P 6542(03)

END P 00SW(16)
 Station 17+06.4
 BEGIN P 6542(01)

END P 6542(01)
 Station 48+37.2
 BEGIN P 6542(02)

End P 6542(03)
 Station 76+47.23
 Approx. 214.40' South and
 799.44' West of the NW
 corner of Section 21 -
 Township 23 North -
 Range 16 East
 of the Black Hills P.M.

DESIGN DESIGNATION

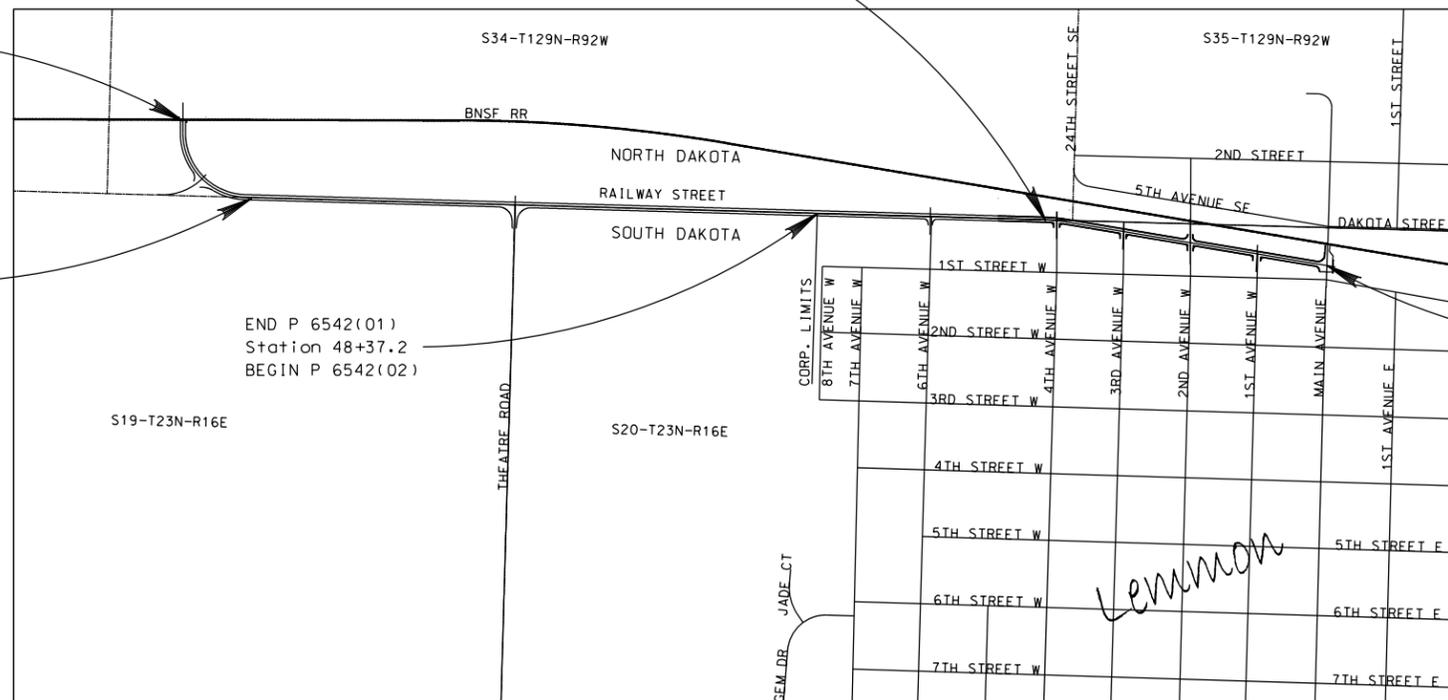
	Railway Street
ADT (2013)	334
ADT (2033)	608
T ADT	30
V	20 MPH - STA 58+28.16 to 76+47.23 45 MPH - STA 11+00.00 to 58+28.16

STORM WATER PERMIT

Major Stream: Thunder Hawk Creek, SD
 Plum Creek, ND
 Area Disturbed: 8.6 Acres
 Total Project Area: 12.5 Acres
 Approx. Begin Lat/Long: 45.9458/-102.1840

SCALES

PLAN	1" = 40'
PROFILE	Horizontal: 1" = 40' Vertical: 1" = 10'
CROSS SECTIONS	Horizontal: 1" = 40' Vertical: 1" = 20'



P 00SW(16) Length 610.00 FEET 0.116 MILES
 P 6542(01) Gross Length 3130.80 FEET 0.593 MILES

P 6542(02) Gross Length 1235.10 FEET 0.234 MILES
 P 6542(03) Gross Length 1574.93 FEET 0.298 MILES



Plotted From - dku/seeth

ESTIMATE OF QUANTITIES AND ENVIRONMENTAL COMMITMENTS

FOR BIDDING PURPOSES ONLY

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 00SW(16) / P 6542(01) P 6542(02) / P 6542(03)	A2	A4

Plotting Date: 2/16/2015

Grading – Section B

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
009E0100	Mobilization					Lump Sum	LS
009E3230	Grade Staking	0.231	1.186	0.468	0.597	2.482	Mile
009E3250	Miscellaneous Staking	0.116	0.593	0.234	0.298	1.241	Mile
009E3280	Slope Staking	0.116	0.593	0.234	0.298	1.241	Mile
009E3300	Three Man Survey Crew	4.0	20.0	8.0	8.0	40	Hour
100E0100	Clearing			1		Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	-	-	-	126	126	Ft
110E0500	Remove Pipe Culvert	-	128	71	70	269	Ft
120E0010	Unclassified Excavation	1,941	11,526	4,510	5,911	23,888	CuYd
120E0100	Unclassified Excavation, Digtouts	51	811	372	201	1,435	CuYd
120E2000	Undercutting	888	4457	1798	2292	9,435	CuYd
120E6100	Water for Embankment	19.4	115.3	45.1	59.1	238.9	MGal
250E0200	Incidental Work, Grading					Lump Sum	LS
270E0222	Salvage Asphalt Mix Material	750.5	3,831.7	1,304.1	2,300.0	8,186.3	Ton
270E0210	Haul and Stockpile Granular Material				8,186.3	8,186.3	Ton
380E4010	6" PCC Fillet Section	-	-	-	62.5	62.5	SqYd
450E0123	18" RCP Class 3, Furnish	-	-	-	1416	1,416	Ft
450E0130	18" RCP, Install	-	-	-	1416	1,416	Ft
450E0143	24" RCP Class 3, Furnish	-	46	-	-	46	Ft
450E0150	24" RCP, Install	-	46	-	-	46	Ft
450E0183	36" RCP Class 3, Furnish	-	-	-	38	38	Ft
450E0190	36" RCP, Install	-	-	-	38	38	Ft
450E2016	24" RCP Flared End, Furnish	-	2	-	-	2	Each
450E2017	24" RCP Flared End, Install	-	2	-	-	2	Each
450E3003	18" RCP Arch Class 3, Furnish	-	-	-	36	36	Ft
450E3010	18" RCP Arch, Install	-	-	-	36	36	Ft
450E3043	42" RCP Arch Class 3, Furnish	-	84	-	-	84	Ft
450E3050	42" RCP Arch, Install	-	84	-	-	84	Ft
450E4500	18" RCP Arch Flared End, Furnish	-	-	2	-	2	Each
450E4501	18" RCP Arch Flared End, Install	-	-	2	-	2	Each
450E4516	42" RCP Arch Flared End, Furnish	-	4	-	-	4	Each
450E4517	42" RCP Arch Flared End, Install	-	4	-	-	4	Each
450E4759	18" CMP 16 Gauge, Furnish	-	62	30	-	92	Ft
450E4760	18" CMP, Install	-	62	30	-	92	Ft
450E5211	18" CMP Flared End, Furnish	-	4	2	-	6	Each
450E5212	18" CMP Flared End, Install	-	4	2	-	6	Each
450E5509	18" CMP Arch 16 Gauge, Furnish	-	-	-	52	52	Ft
450E5510	18" CMP Arch, Install	-	-	-	52	52	Ft
450E6006	18" CMP Arch Safety End, Furnish	-	-	-	2	2	Each
450E6007	18" CMP Arch Safety End, Install	-	-	-	2	2	Each
450E8023	36" CMP to RCP Transition, Furnish	-	-	-	1	1	Each
450E8025	36" Pipe Transition, Install	-	-	-	1	1	Each
451E7520	Exploratory Excavation	1	5	2	2	10	Hour
462E0100	Class M6 Concrete	-	-	-	24.0	24.0	CuYd
480E0100	Reinforcing Steel	-	-	-	3170	3,170	Lb
600E0300	Type III Field Laboratory	-	1	-	-	1.00	Each
650E0060	Type B66 Concrete Curb and Gutter	-	-	468	3206	3,674	Ft
650E4660	Type P6 Concrete Gutter	-	-	22	41	63	Ft
670E1200	Type B Frame and Grate Assembly	-	-	-	14	14	Each
671E0007	Type A7 Manhole Frame and Lid	-	-	-	1	1	Each
831E0300	MSE Geotextile Fabric	100	500	200	200	1,000	SqYd
998E0100	Railroad Protective Insurance					Lump Sum	LS

Traffic Control – Section C

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
260E6010	Granular Material	10.0	50.0	20.0	20.0	100.0	Ton
634E0010	Flagging	4	20	8	8	40	Hour
634E0100	Traffic Control	310	1,549	619	619	3,097	Unit
634E0120	Traffic Control Miscellaneous					Lump Sum	LS
634E1002	Detour Signing	42.7	213.4	85.4	85.4	426.8	SqFt

Erosion and Sediment Control – Section D

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
110E1690	Remove Sediment	16.0	13.0	5.0	5.0	39.0	CuYd
110E1693	Remove Erosion Control Wattle	1,104	2,919	2,162	3,259	9,444	Ft
110E1695	Remove Sediment Filter Bag				734	734	Ft
110E1700	Remove Silt Fence				638	638	Ft
120E6300	Water for Vegetation			215.3	150.2	365.5	MGal
120E9000	Pit Run Material	55.0	55.0	55.0	55.0	220.0	Ton
230E0010	Placing Topsoil	89	1,408	720	472	2,689	CuYd
730E0100	Cover Crop Seeding	0.2	2.1	0.9	0.6	3.8	Bu
730E0200	Type A Permanent Seed Mixture	4	38	13		55	Lb
730E206	Type D Permanent Seed Mixture			58	189	247	Lb
731E0100	Fertilizing	319	3,162	1,071	62	4614	Lb
732E0100	Mulching	0.4	4.2	1.4		6.0	Ton
732E0250	Fiber Mulching			377	1242	1619	Lb
734E0101	Type 1 Erosion Control Blanket	250	1,750	750	750	3,500	SqYd
734E0154	12" Diameter Erosion Control Wattle	1,104	2,919	2,162	3,259	9,444	Ft
734E0180	Sediment Filter Bag				734	734	Ft
734E0604	High Flow Silt Fence				638	638	Ft
734E0610	Mucking Silt Fence				43	43	CuYd
734E0620	Repair Silt Fence				100	100	Ft
734E0840	Sediment Control at Type B Reinforced Concrete Drop Inlet				14	14	Each
734E5010	Sw eeping	2	8	4	4	18	Hour
831E0300	MSE Geotextile Fabric	82	82	82	82	328	SqYd
900E1300	Granular Material for Construction Entrance	55.0	55.0	55.0	55.0	220.0	Ton

Surfacing – Section F

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
009E3320	Checker					Lump Sum	LS
120E6200	Water for Granular Material	16.8	92.8	36.8	43.4	189.9	MGal
260E1010	Base Course	1,679.2	9,248.4	3,624.4	4,313.4	18,865.4	Ton
260E3010	Gravel Surfacing	-	35.0	55.0	30.0	120.0	Ton
320E1200	Asphalt Concrete Composite	800.1	3,890.2	1,454.3	1,900.2	8,044.8	Ton

Pavement Marking – Section M

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
633E1400	Pavement Marking Paint, 4" White	1,209	6,084	1,907	-	9,200	Ft
633E1405	Pavement Marking Paint, 4" Yellow	932	3,776	2,470	451	7,629	Ft
633E1430	Pavement Marking Paint, 24" White	36	31	12	36	115	Ft
633E1455	Pavement Marking Paint, Message	1	-	-	1	2	Word

Permanent Signing – Section S

Std. Bid Item	Item Description	P 00SW(16) Quantity	P 6542(01) Quantity	P 6542(02) Quantity	P 6542(03) Quantity	Total Quantity	Unit
110E5020	Salvage Traffic Sign	4	12			16	Each
632E1330	2.25"x2.25" Perforated Tube Post	101.0	187.0		34.0	322.0	Ft
632E2510	Type 2 Object Marker Back to Back		6	2		8	Each
632E3203	Flat Aluminum Sign, Nonremovable Copy High Intensity	37.1	73.9		5.0	116.0	SqFt
632E3205	Flat Aluminum Sign, Nonremovable Copy Super/Very High Intensity	14.6	37.5		14.6	66.7	SqFt



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	P 00SW(16) / P 6542(01) P 6542(02) / P 6542(03)	A3	A4

Plotting Date: 2/4/2015

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 C: WATER SOURCE

The Contractor shall not withdraw water with equipment previously used outside the State of South Dakota without prior approval from the SDDOT Environmental Office. Thoroughly wash all construction equipment before entering South Dakota to reduce the risk of invasive species introduction into the project vicinity.

Action Taken/Required:

The Contractor shall obtain the necessary permits from the regulatory agencies such as the Department of Environment and Natural Resources (DENR) and the United States Army Corps of Engineers (COE) prior to executing water extraction activities.

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://www.sddot.com/business/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 Environment 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 Highway, Road, and Railway 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.



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Plotting Date: 2/5/2015

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 designated option borrow 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.

