

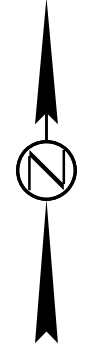
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	410D321	1	4

Plotting Date: 02/24/2012

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED

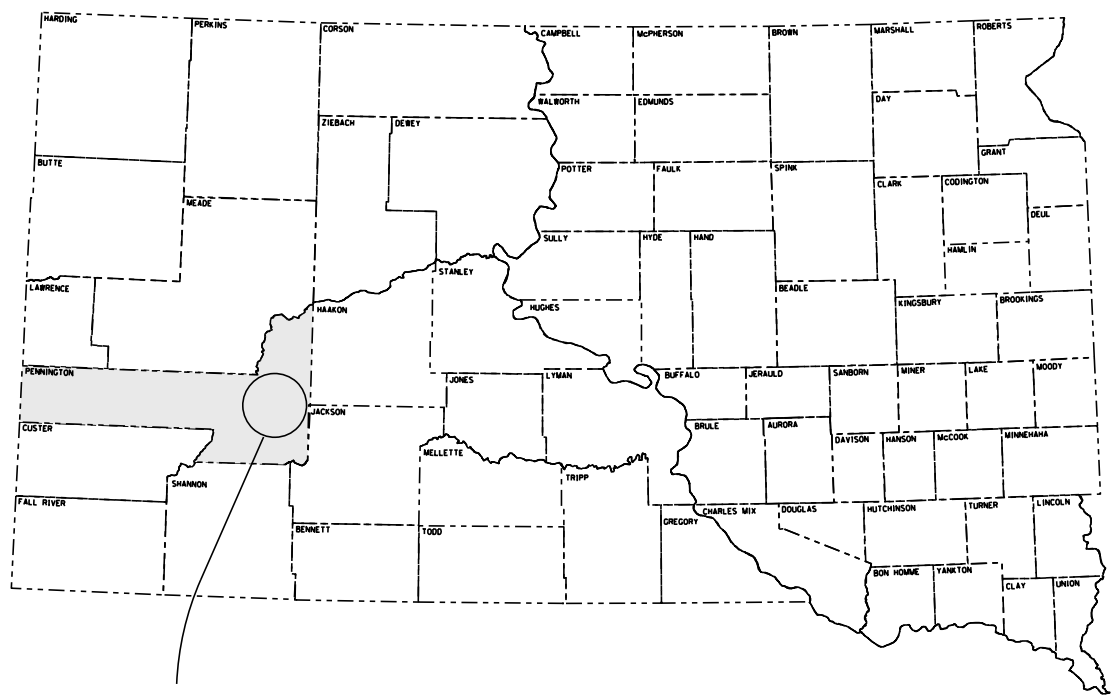
PROJECT 410D321
WALL MAINTENANCE YARD
PENNINGTON COUNTY

ASPHALT CONCRETE RESURFACING
 PCN i2hj

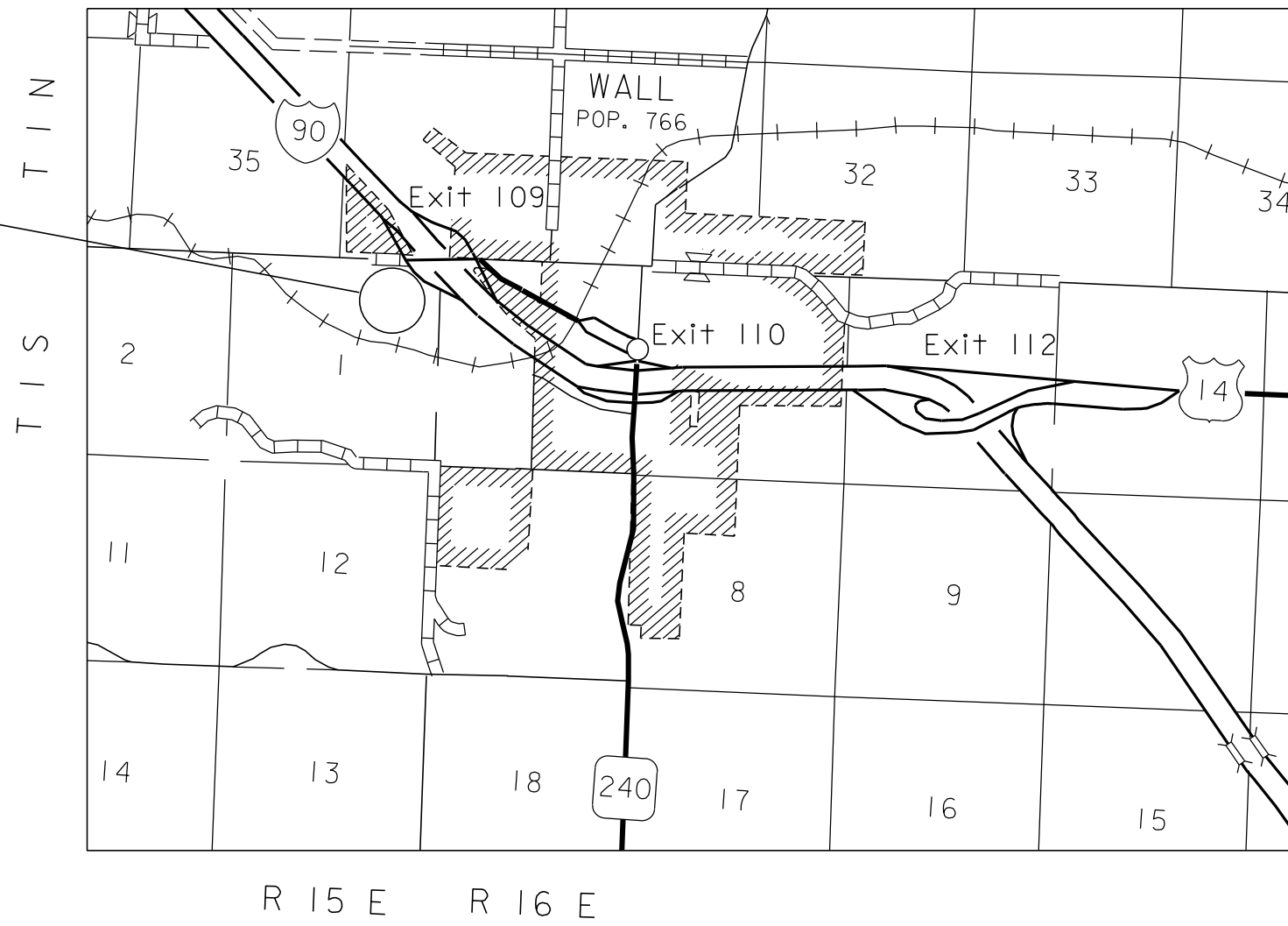


INDEX OF SHEETS

- Sheets 1: Title Sheet
- Sheet 2-3: Estimate of Quantities & Plan Notes
- Sheet 4: Yard Resurfacing Layout



PROJECT



PLOT SCALE - 1:200

PLOTTED FROM - TRRC11951

PLOT NAME - 1

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ESTIMATE OF QUANTITIES

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
120E0100	Unclassified Excavation, Digouts	192	CuYd
260E1010	Base Course	142.2	Ton
320E1200	Asphalt Concrete Composite	787.0	Ton
320E2000	Maintenance Patching	70.7	Ton

SPECIFICATIONS

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

WORK DESCRIPTION

Work on this project includes an asphalt concrete overlay of the Wall Maintenance Yard.

HISTORICAL PRESERVATION OFFICE CLEARANCES

To obtain State Historical Preservation Office (SHPO) clearance, a cultural resources survey may need to be conducted by a qualified archaeologist. In lieu of a cultural resources survey, the Contractor could request a records search from Jim Donohue, State Archaeological Research Center (SARC). Provide SARC 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 no artifacts have been found on the site. The Contractor shall arrange and pay for the cultural resource survey and/or records search.

If any earth disturbing activities occur within the current geographical or historic boundaries of any South Dakota reservation, the Contractor shall obtain Tribal Historical Preservation Office (THPO) clearance. If no THPO exists, the required SHPO clearance shall suffice, with documentation of Tribal contact efforts provided to SHPO.

To facilitate SHPO or THPO responses, the Contractor should submit a records search or cultural resources survey report to Tom Lehmkuhl, DOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). Allow 30 days from the date this information is submitted to the Environmental Engineer for SHPO/THPO approval. The Contractor is responsible for obtaining all required permits and clearances for staging areas, borrow sites, waste disposal sites, and all material processing sites. The Contractor shall provide the required permits and clearances to the Engineer at the preconstruction meeting.

WASTE DISPOSAL SITE

The Contractor will be required to furnish a site(s) for the disposal of construction/demolition debris generated by this project.

Construction/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 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/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/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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UNCLASSIFIED EXCAVATION DIGOUTS

Provided in the Estimate of Quantities is Unclassified Excavation-Digouts for the necessary removal of existing asphalt concrete and base material. The locations of the digouts will be determined in the field by the Engineer. Unclassified Excavation Digouts depth shall be 1 foot or as directed by the Engineer. Backfill shall be 8" of Base Course placed in 4" lifts and 4" of Maintenance Patching placed in 2" lifts.

The existing asphalt concrete shall be sawed full depth with a vertical face to the removal limits established by the Engineer. The dimensions provided in these plans are subject to change in the field, at the discretion of the Engineer. Payment will be based on the actual quantities installed.

All costs associated with sawing, removal and disposal of existing asphalt and base material shall be incidental to the contract unit price per cubic yard "Unclassified Excavation Digouts".

MAINTENANCE PATCHING

Maintenance Patching shall be in accordance with the requirements of Section 324 of the Standard Specifications, Asphalt Concrete Composite.

TABLE OF ASPHALT CONCRETE PAVEMENT REPAIR

Width (Ft)	Length (Ft)	Depth (Ft)	Unclassified Excavation Digouts (Cuyds)	Maintenance Patching (Tons)	Base Course (Tons)
45	12	1.00	20	13.3	26.8
45	25	1.00	83	27.8	55.8
30	40	1.00	89	29.6	59.6
Totals			192	70.7	142.2

ASPHALT CONCRETE COMPOSITE

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
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The estimated square footage of Asphalt Concrete Composite as per these plans is 66,416 square feet.

Asphalt Concrete Composite shall be furnished by the Contractor.

Mineral aggregate for the Asphalt Concrete Composite shall conform to the requirements of the Standard Specifications for Class E, Type 1. The Asphalt Concrete Composite shall be placed in 1 – 2” lifts for a total thickness of 2”.

All other requirements in the Standard Specifications for Asphalt Concrete Composite shall apply.

The asphalt binder used in the mixture shall be PG 58-28, PG 64-22, PG 64-28 or 64-34 Asphalt Binder.

SS-1h or CSS-1h Emulsified Asphalt for Tack shall be applied to the existing surfacing at the rate of 0.05 gallons per square yard.

SS-1h or CSS-1h Emulsified Asphalt for Flush Seal shall be applied to the top lift at the rate of 0.05 gallons per square yard.

Location and quantity shown in the plans are approximate. Exact locations are to be set by the Engineer. The Engineer reserves the right to adjust quantities and/or add location dependent on the condition of the yard at the time of the work.

TRAFFIC CONTROL

Work activities during non-daylight hours are subject to prior approval. Daylight hours are considered to be ½ hour before sunrise until ½ hour after sunset.

A 48 hour advanced notice of work is required.

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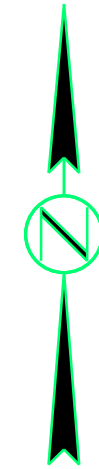
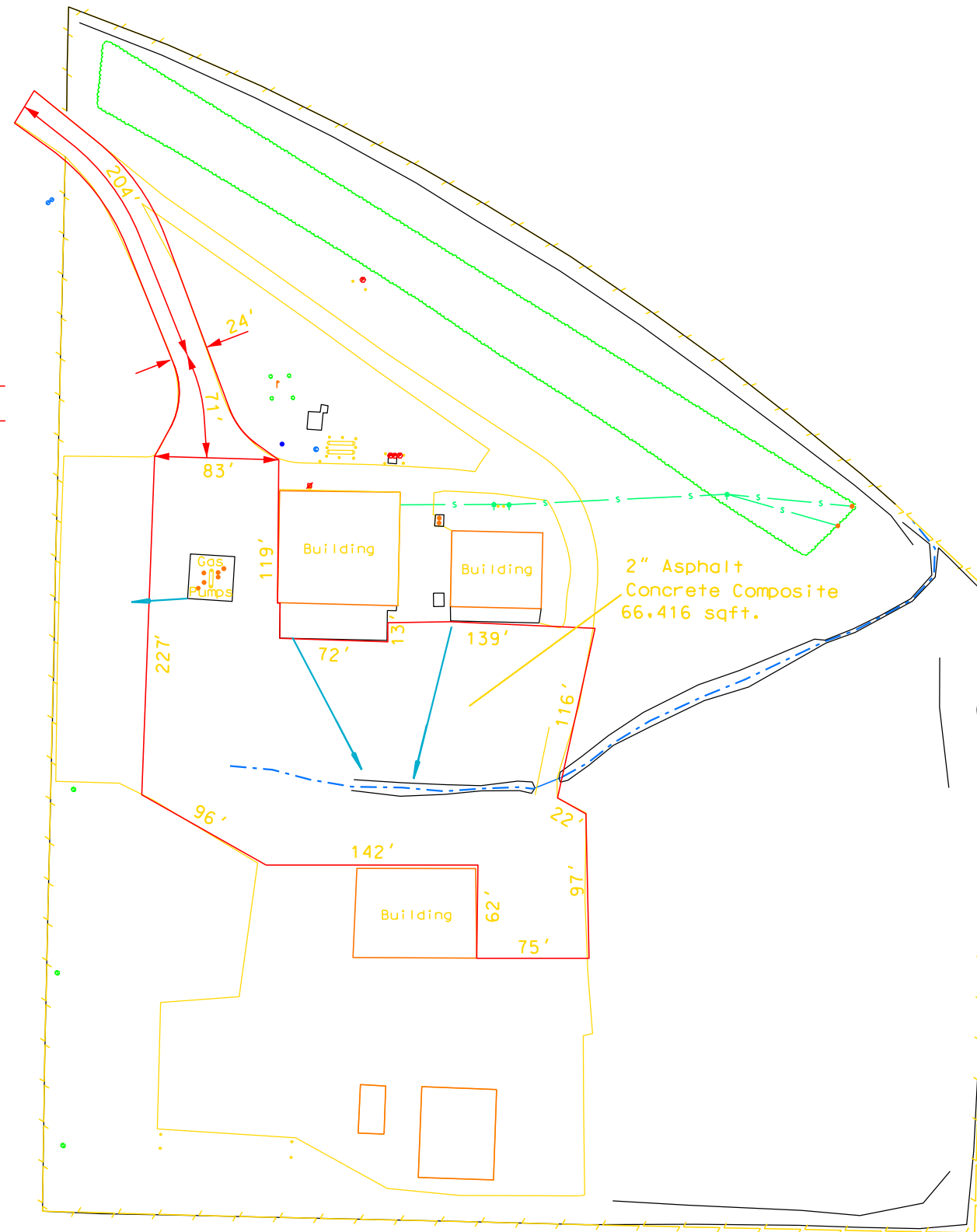
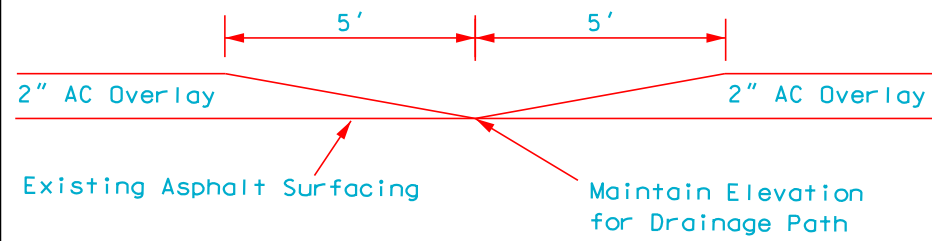
Plotting Date: 03/07/2012

WALL MAINTENANCE YARD

PLOT SCALE - 1:100

PLOT NAME - 2

← Drainage arrows indicate the path of the existing drainage. The Contractor shall maintain these drainage paths by tapering the edge of the overlay from 2" to 0" in 5'. (see typical section below)



PLOTTED FROM - TRRC11951

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