

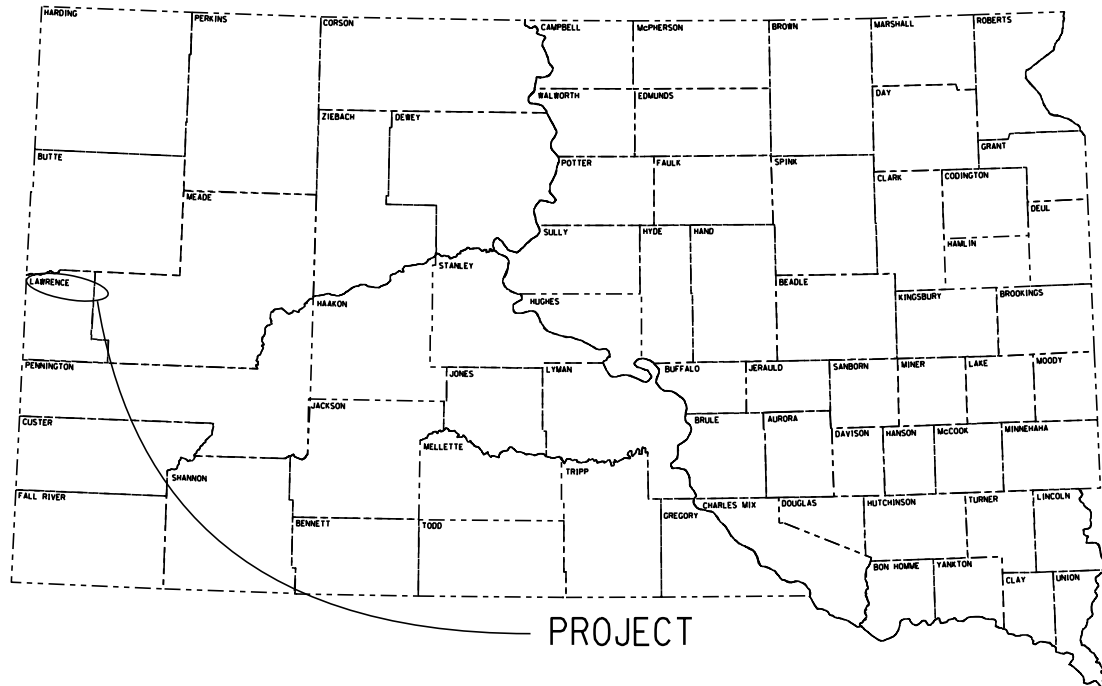
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	090E-451 & 090W-451	1	3

Plotting Date: 04/17/2013

STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
**PROJECTs 090E-451, 090W-451, 385-491  
& 016-491**  
**HIGHWAYs I-90, US 385 & US 16**  
**LAWRENCE, MEADE & PENNINGTON**

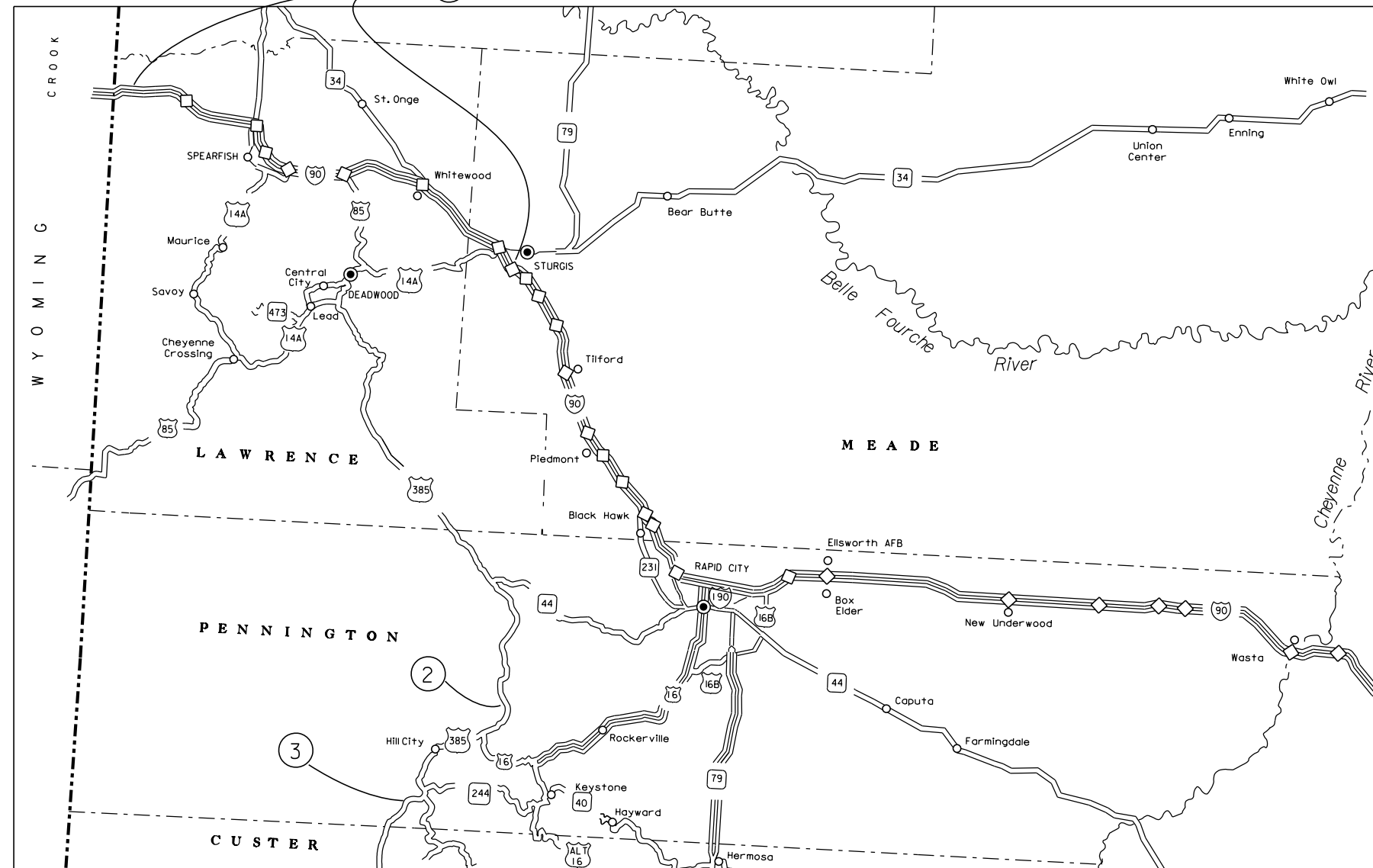
PAVEMENT FOAM JACKING  
PCNs i2w8, i2w9, i2xp & i2xq



PLOT SCALE - 1:200

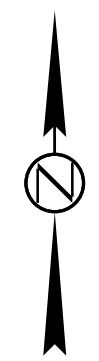
PLOT NAME - 1

- ① I-90 W, MRM 1.2 to MRM 31.4  
090W-451, i2w8  
I-90 E, MRM 3.7 to MRM 4.1  
090E-451, i2w9
- ② US 385, MRM 86.91  
385-491, i2xp
- ③ US 16, MRM 36.49 to MRM 36.71  
016-491, i2xq



INDEX OF SHEETS

Sheets	1:	Title Sheet
Sheets	2-3:	Estimate of Quantities & Plan Notes



Storm Water Permit  
No Permit Required

PLOTTED FROM - TRRC11951

FILE - ... \FOAM JACKING\12W8\TITLE.DGN

### ESTIMATE OF QUANTITIES (I-90 W, PCN i2w8)

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
392E0210	PCC Pavement Jacking Foam	6,115	Lb

### ESTIMATE OF QUANTITIES (I-90 E, PCN i2w9)

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
392E0210	PCC Pavement Jacking Foam	1,310	Lb

### ESTIMATE OF QUANTITIES (US 385, PCN i2xp)

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
392E0210	PCC Pavement Jacking Foam	728	Lb

### ESTIMATE OF QUANTITIES (US 16, PCN i2xq)

Bid Item Number	Item	Quantity	Unit
009E0010	Mobilization	Lump Sum	LS
392E0210	PCC Pavement Jacking Foam	1,456	Lb

### SPECIFICATIONS

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

### SCOPE OF WORK

Work on this project involves correcting the pavement profile with Pavement Jacking Foam.

### FOAM PAVEMENT JACKING QUANTITIES

Due to the dollar amount budgeted for this work, the locations of pavement jacking shall be done in the order of the priority number provided in the tables, starting with #1. The Engineer reserves the right to eliminate locations once the budgeted dollar amount is exceeded.

### 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.

**TABLE OF PCC PAVEMENT JACKING FOAM (i2w8)**

Highway	MRM	PCC Pavement Jacking Foam (Lb)	Comment	Priority #
I-90 W	1.2	874		1
I-90 W	2.0	728		1
I-90 W	5.1	582		1
I-90 W	5.7	1,092		1
I-90 W	25.5	291		1
I-90 W	26.3	1,092		1
I-90 W	26.9	728		1
I-90 W	31.4	728	Bridge Off End	1
	<b>Total</b>	<b>6,115</b>		

**TABLE OF PCC PAVEMENT JACKING FOAM (i2w9)**

Highway	MRM	PCC Pavement Jacking Foam (Lb)	Comment	Priority #
I-90 E	3.7	582		1
I-90 E	4.1	728		1
	<b>Total</b>	<b>1,310</b>		

**TABLE OF PCC PAVEMENT JACKING FOAM (i2xp)**

Highway	MRM	PCC Pavement Jacking Foam (Lb)	Comments	Priority #
US 385	86.91	728		2

**TABLE OF PCC PAVEMENT JACKING FOAM (i2xq)**

Highway	MRM	PCC Pavement Jacking Foam (Lb)	Comments	Priority #
US 16	36.49	728		2
US 16	36.71	728		2
	<b>Total</b>	<b>1,456</b>		

**TRAFFIC CONTROL**

Traffic control will be accomplished by DOT personnel. The Contractor shall coordinate with DOT personnel at least one week prior to the start of construction. The Maintenance Supervisor for the Sturgis unit is Greg Boness, 605-347-1978. The Maintenance Supervisor for the Rapid City unit is Bob Smith, 605-381-7174.

Unless otherwise stated in these plans, no work will be allowed during hours of darkness. Hours of darkness are defined, as ½ hour after sunset until ½ hour before sunrise.

Storage of vehicles and equipment shall be as near the right-of-way as possible. 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. Indiscriminate driving and parking of vehicles within the right-of-way will not be permitted. Any damage of 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.

All materials and equipment shall be stored a minimum distance of 30' from the traveled way during nonworking hours.

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 contractor's 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.

All construction operations shall be conducted in the general direction of traffic movement.