

Plotting Date: MAY-21-2008

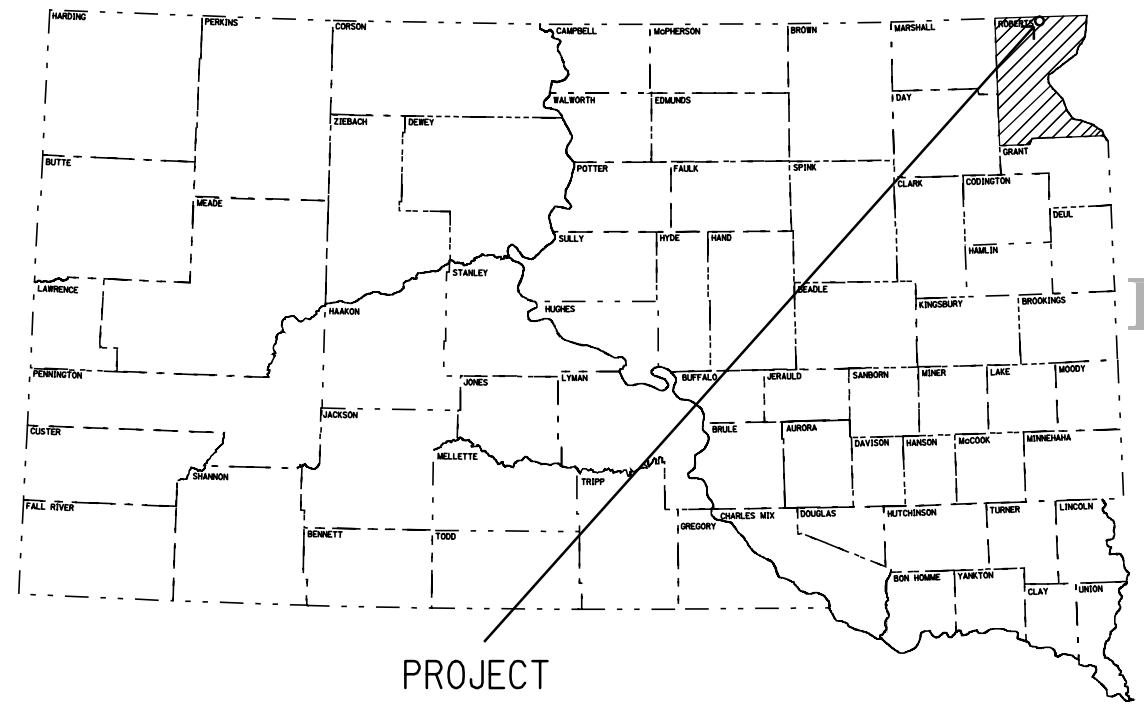
STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT 029 S-172  
INTERSTATE HIGHWAY 29  
ROBERTS COUNTY

INDEX OF SHEETS

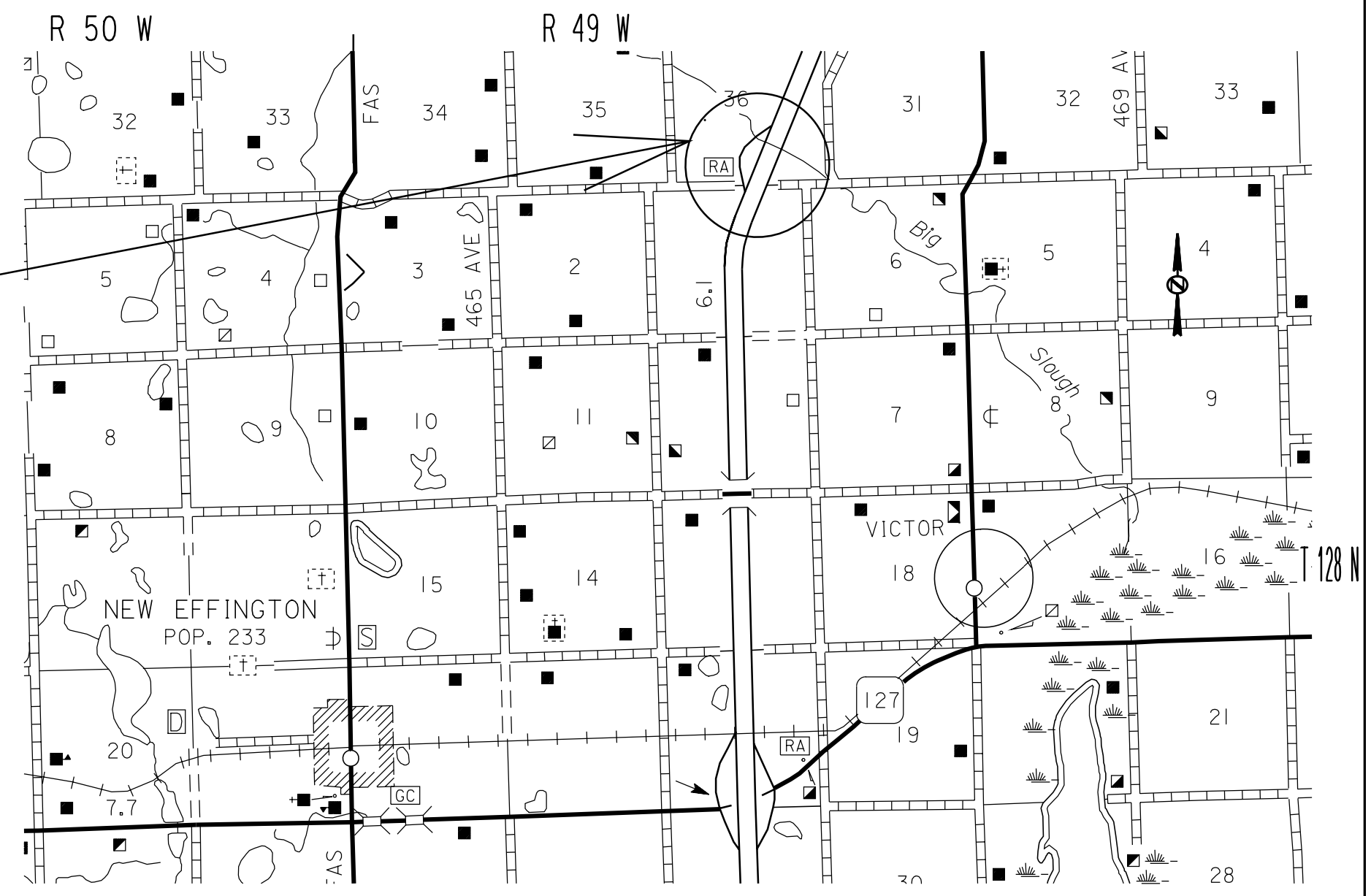
SHEET NO. 1	TITLE SHEET AND LAYOUT MAP
SHEET NO. 2	PLAN NOTES 1998 REHAB PLANS
SHEET NO. 3	ORIGINAL PLAN NOTES
SHEET NO. 4	ORIGINAL 1979 PLANS
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PROJECT

PCN i18z  
PAINTING OF PICNIC SHELTERS

PROJECT NO. 029S-172  
PCN i18z  
ROBERTS COUNTY  
MRM 250.6  
GLACIAL LAKES (VICTOR)  
INTERSTATE REST AREA



STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	029 S-172	2	6

**SPECIFICATIONS**

Standard Specifications for Roads and Bridges, 2004 Edition and required provisions, supplemental specifications and/or special provisions as included in this proposal.

**SCOPE OF PROJECT**

Location: Interstate 29 South Bound MRM 250 in Roberts County, Approximately 18 Miles North of Sisseton, SD, otherwise known as Glacial Lakes (Victor) Interstate Rest Area.

Work of this project involves but is not limited to removal of all paint from ferrous metal surfaces on two picnic shelter canopies which include both top and bottom of canopy, fascia and 24ft x 16in. x 6in. joists/girders. All granite walls, picnic tables, turf area and concrete floors/sidewalks shall be covered to prevent damage and overspray in the area. Contractor shall be responsible to dispose of properly all sand media and paint removed during metal preparation.

**DESCRIPTION OF WORK**

Shall sandblast all exposed metal on two picnic shelter canopies down to bare metal according to surface preparation cleaning standard SSPC-SP-5. Approximate surface area is 2,200 square feet. Canopy roof tops are a 5.5" x 2.5" corrugated type panel. All other surfaces are smooth. Application of primer, polyurethane sealant and top coat shall be in the order as follows according to manufacturers recommendations. Apply one coat of brown Sherwin Williams Industrial and Marine Kem Kromek universal metal primer 3-4 dry mils thick. Apply a bead of Sherwin Williams Stampede TM-1 smooth polyurethane sealant to all areas between skip welds on fascia and joists after primer has been applied. Apply two top coats 4 mils thick of Sherwin Williams Industrial and Marine Metalatex semi gloss medium bronze-color # BRZ6 after polyurethane sealant has properly cured.

**GENERAL**

All details and dimensions of the original plans for construction and special provisions supplied are for information only. It is the contractor's responsibility to inspect and verify the actual field conditions and any necessary dimensions affecting satisfactory completion of the work for this project. Contractor shall be expected to follow procedures and requirements stated.

All construction/demolition material shall become property of the contractors and be required to dispose of properly. Any damage to building or property caused by sandblasting/painting shall be the contractor's responsibility to repair/replace to the Departments satisfaction and at no cost.

The completion date for this project is August 28, 2009. Work may not start until after May 25, 2009. No work will be allowed during the time period of July 2, 2009 through July 5, 2009. The Rest Area will be closed during the work. The SD DOT contact person is Jerry Maier @ 605-626-7888.

**WHITE METAL BLAST CLEANING (SSPC-SP-5 SA 3 NACE 1)**


Removal of all mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels. A White Metal Blast Cleaned Surface Finish is defined as a surface with a gray-white, uniform metallic color, slightly roughened to form a suitable anchor pattern for coatings. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.

**BASIS OF MEASUREMENT AND PAYMENT**

The contract unit price per each for "Rest Area Building, General" shall cover all costs to sand blast and paint each Picnic Shelter Canopy.

**NOTICE-LEAD BASED PAINT**

Be advised that the paint on the steel surfaces of the existing structure is a paint containing lead. The Contractor should plan his/her operations accordingly, and inform his/her employees of the hazards of lead exposure. The following is an analysis of a paint sample that was submitted for testing by the SDDOT. This analysis report is provided as information only.




2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709  
(605) 348-0111 -- www.thechemistrylab.com

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<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>JERRY MAIER SD DOT ABERDEEN REGION OFFICE PO BOX 1767 ABERDEEN, SD 57402-1767</p> </div>	<p>Sample Site: Picnic Shelter Canopy Project Name: Glacial Lakes Rest Area Project Number: 0295-172 PCNi18z Sampled: 07/28/08 at 11:30 AM by Jerry Maier Sample Matrix: Solid</p> <p>Lab ID#: 20080731705 Received: 07/31/08 at 04:00 PM by Dean Aurand Account: W1449 SD DOT Aberdeen Region Office</p>
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Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
<b>Metals - Total</b>							
Lead (Pb)	7.72	mg/kg	2000	0.037	0.200	EPA 200.8	EJF 08/04/08

Approved By: 

Approved On: 8/12/2008 9:33:03 AM

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	029 S-172	3	6
Plotting Date: 16-JUL-2008			

## Original Plans For Information Only

### ROOFING SYSTEM ENCLOSURE

The existing roofing system of the two Picnic Shelter buildings at the Victor Rest Area shall be modified so as the bottom of the roof is covered with a 14 gauge metal sheeting.

The bottom of the existing roofing system shall be cleaned of all debris, including bird nests before any work begins on enclosing the roof.

All openings, along the edges and/or bottom remaining after the installation of the 14 gauge sheeting, over 1/4" in diameter shall be covered with 12 gauge sheeting so as to prevent birds from entering the newly enclosed roof. These smaller pieces of 12 gauge sheeting shall be tack welded into position. Some of the areas that need plugging include the corner edges of the roof where the various angles meet. The most significant area is the lower part of the roof by the middle free standing wall where the corrugated sheeting was notched to allow the water to drain off the roof. The other significant area is a 2" gap along the edge(Slant side) of roof between the 2 angles which make up the edge of the roof.

The sheeting shall be run so that any joints in the 14 gauge sheets shall be located under the C 5 x 8.2 Channels. The only place joints will be allowed in the sheeting is under the C 5 x 8.2 Channels. The sheeting at these joints shall be attached to the C 5 x 8.2 Channels with sheet metal screws spaced no more than 6 " center to center. If the sheeting is of such width that it spans more than 1 span, the sheets shall still be attached to the C 5 x 8.2 Channels at a 6" spacing. The screw head shall be round with a Torx screw head. The screws shall be a minimum of 2" long and 3/16" in Diameter.

The 14 gauge sheeting shall extend to the outside edge of the roof on the open side of the shelters so as to have a neat appearance.

The 14 gauge sheeting shall be abutted up to the top of the W 16 x 26 roof beam. The joint along the 14 gauge sheeting and W 16 x 26 roof beam shall be tack welded a minimum of 20% of the length of the joint. The joint opening shall be between 1/16" and 1/8" wide where the 14 gauge sheeting abuts up to the W 16 x 26 roof beam.

The 14 gauge sheeting shall extend to the outside edge of the Double 6 x 3 1/2 x 5/16 edge beams. The joint along the edge of the Double 6 x 3 1/2 x 5/16 edge beams and the 14 gauge sheeting shall be tack welded a minimum of 50% of the length of the joint.

The sheeting will need to be notched around steel angles which attach the roof to the W 16 x 26 roof beams.

All costs for labor, equipment and materials to enclose the roof shall be by the lump sum bid item "Roofing System Enclosure".

### PAINTING OF PICNIC SHELTER ROOFING SYSTEM

The entire roofing system (all steel) of both Picnic Shelter Buildings at the Victor Rest Area shall be painted a brown color. The color shall match that

of the Main Rest Area building facia. The color of the paint shall be approved by the Engineer.

The paint used shall be an Alkyd Enamel paint with a semi gloss finish. The paint shall be applied by spray application from an air or airless paint application system. The use of brushes or rollers to apply paint will not be allowed. Two coats of Alkyd Enamel paint shall be applied for a minimum dry thickness of 4 mills. An approved primer for Alkyd Enamel paint shall be applied before the roof is painted.

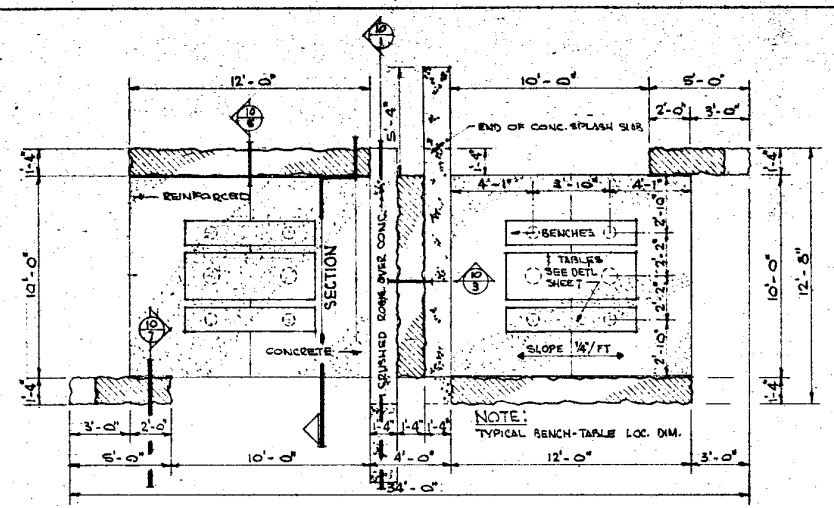
The roofing system shall be power washed with high pressure water to remove foreign debris. Any oil, grease or other contaminants shall then be removed with necessary cleaners. The roofing system shall then be sand blasted to remove any loose paint and rust. The roofing system shall be primed within 18 hours of sand blasting to prevent rusting.

All costs for labor, materials, and equipment associated with power washing, cleaning, sandblasting, and painting of the roofing system of both of the picnic shelter buildings shall be by the Lump Sum bid item "Painting".

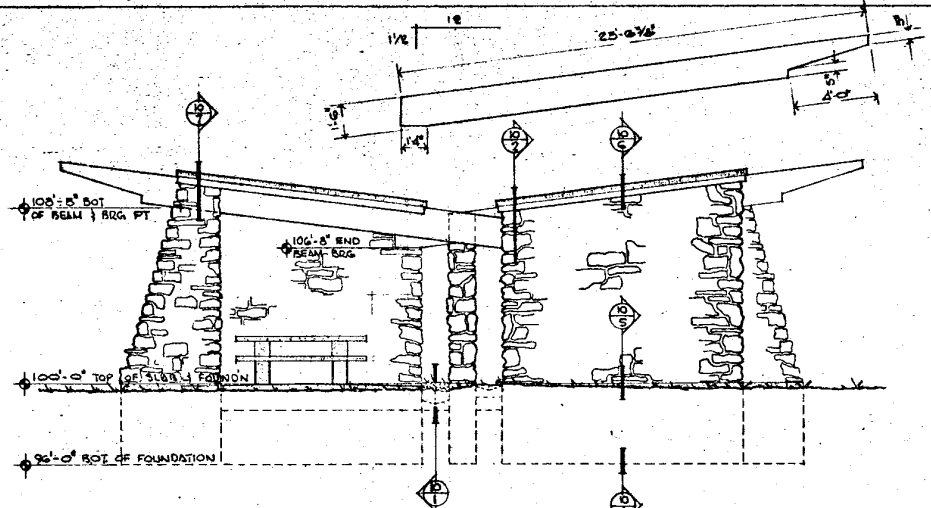
ORIGINAL PLANS

STATE OF SOUTH DAKOTA	PROJECT 029 S-172	SHEET NO. 4	TOTAL SHEETS 6
Plotting Date: 16-JUL-2008			

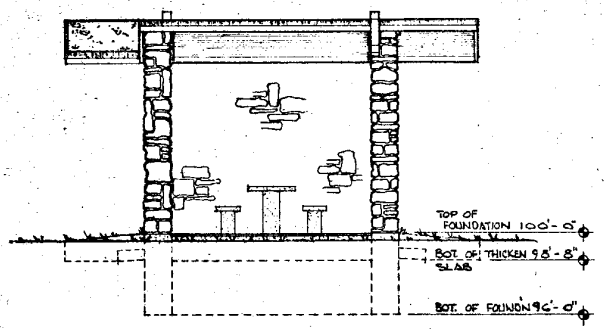
FED. ROAD REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	S. D.	12A-9(14)251	17	34



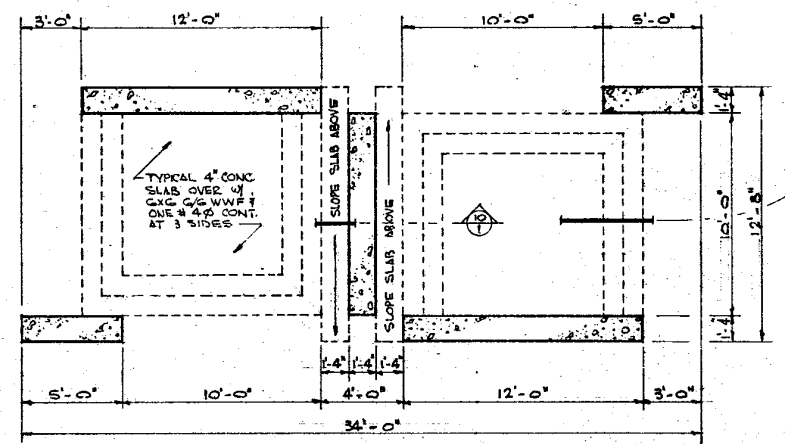
**FLOOR PLAN** 1/4" = 1'-0"  
NOTE: SEE SITE PLAN FOR ORIENTATION & LAND.



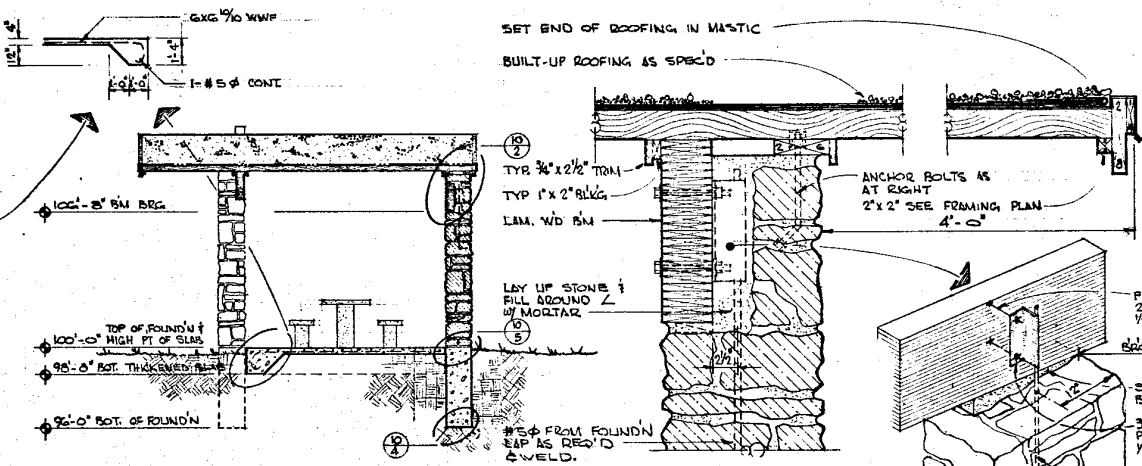
**LONGITUDINAL SIDE ELEVATION** 1/4" = 1'-0"



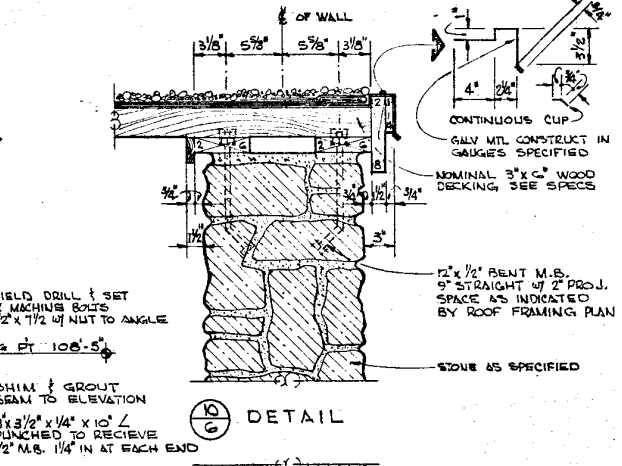
**TRANSVERSE SIDE ELEV.** 1/4" = 1'-0"



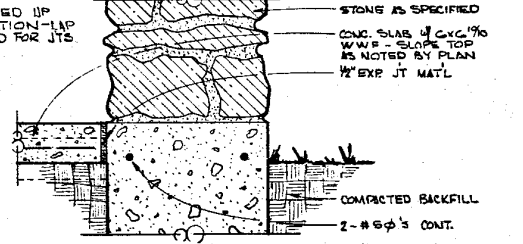
**FOUNDATION PLAN** 1/4" = 1'-0"



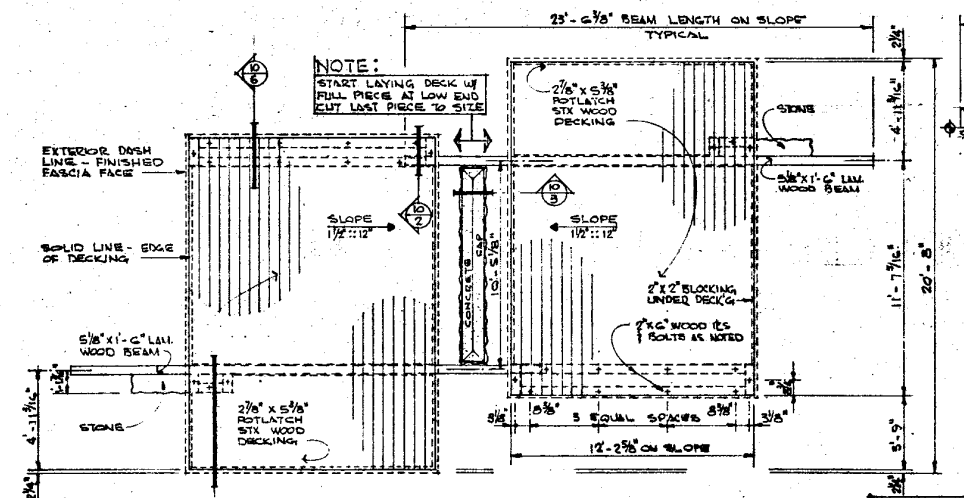
**TRANSVERSE SECTION** 1/4" = 1'-0"



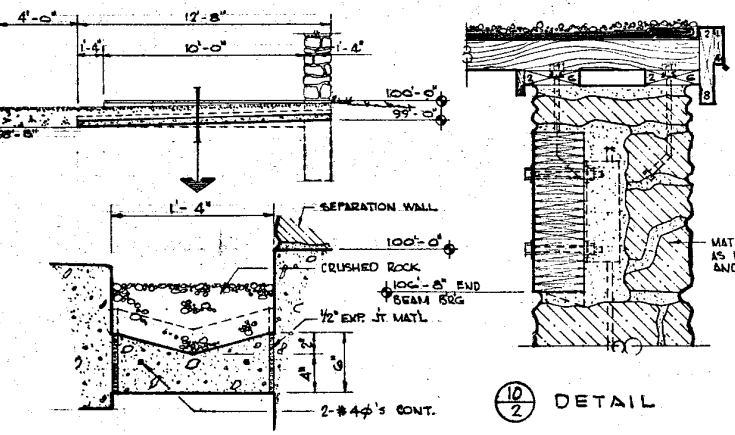
**10/6 DETAIL**



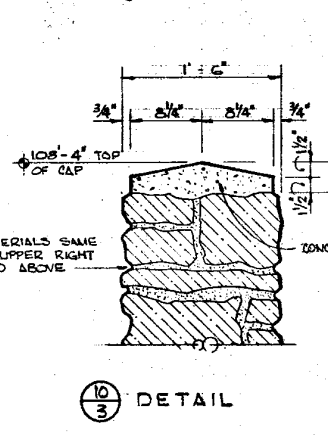
**10/7 DETAIL**



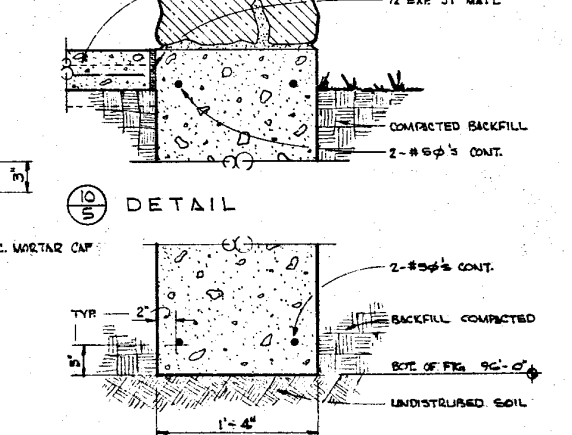
**ROOF FRAMING PLAN** 1/4" = 1'-0"



**10/2 SPLASH TROUGH DETAILS**



**10/3 DETAIL**



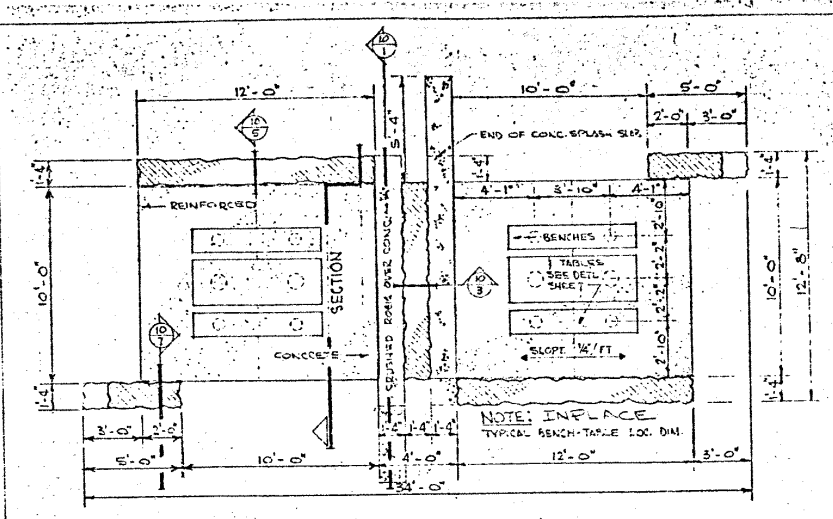
**10/4 DETAIL**

INTERSTATE SAFETY REST AREA DOBERT'S COUNTY SOUTH DAKOTA DIVISION OF HIGHWAYS

THE CRAIG ASSOCIATES ARCHITECTS-ENGINEERS 618 1/2 ST. JOSEPH STREET RAPID CITY, S.D. 57701  
SHEET 110

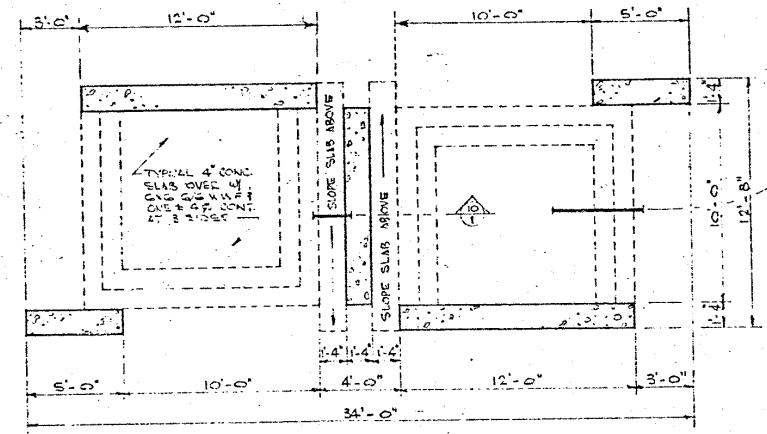
Plotting Date: 16-JUL-2008

FED. ROAD REGION NO.	STATE OF	PROJECT NO.	SHEET NO.	TOTAL SHEETS
8	S. D.	IR299(4)250	8	27

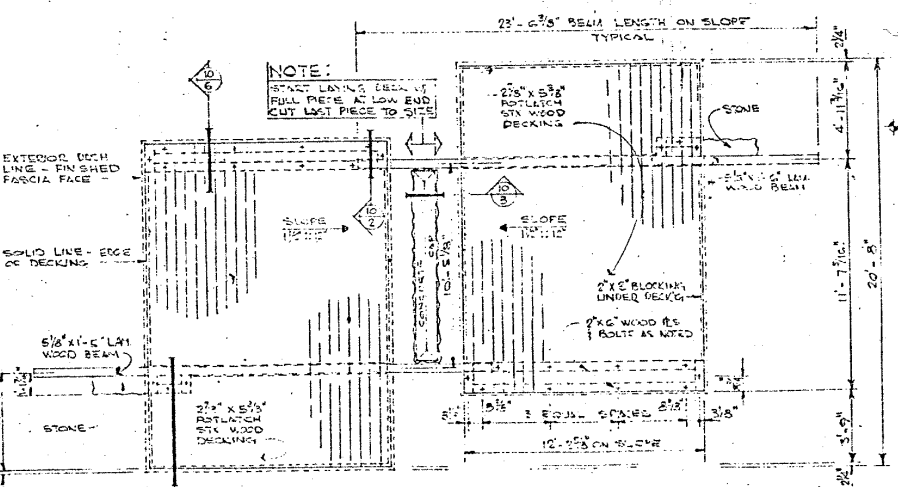


FLOOR PLAN 1/4" = 1'-0"

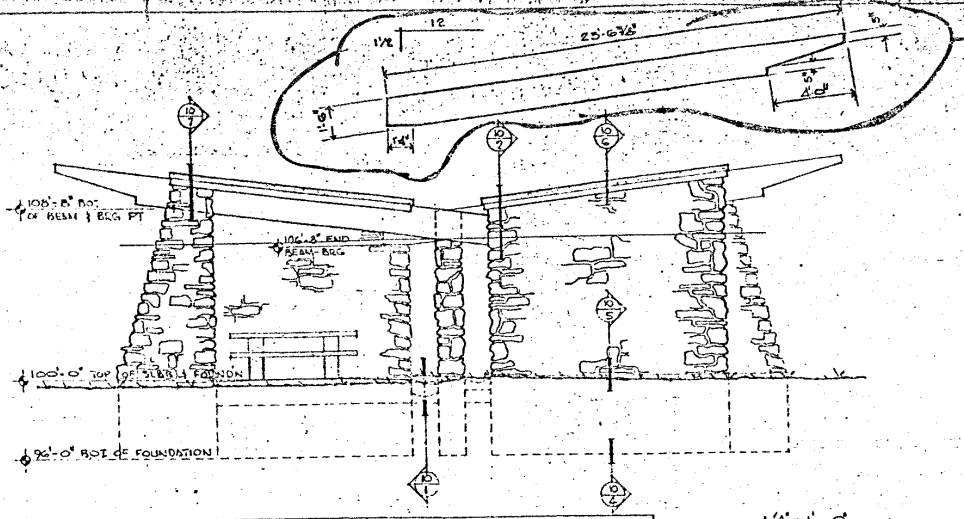
NOTE: SEE SITE PLAN FOR ORIENTATION & LAYOUT.



FOUNDATION PLAN 1/4" = 1'-0"



ROOF FRAMING PLAN 1/4" = 1'-0"



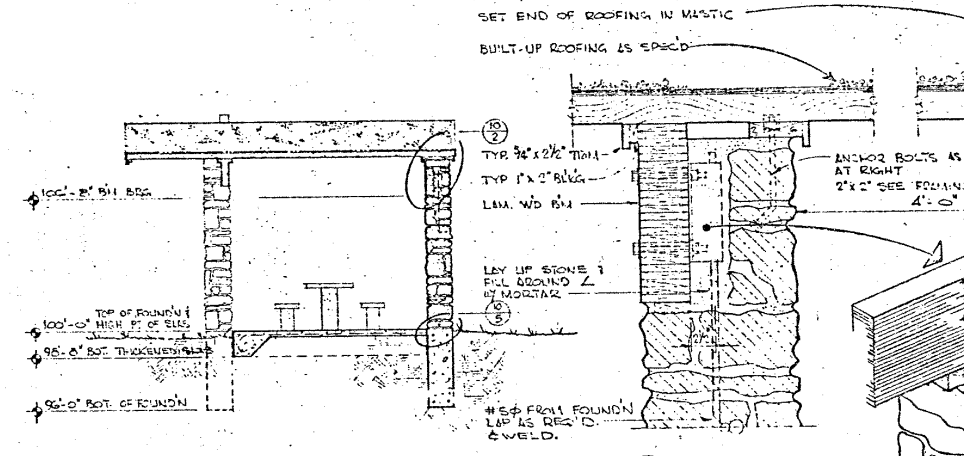
LONGITUDINAL SIDE ELEVATION 1/4" = 1'-0"

STEEL TUBE BEAM SEE SHEET 9.

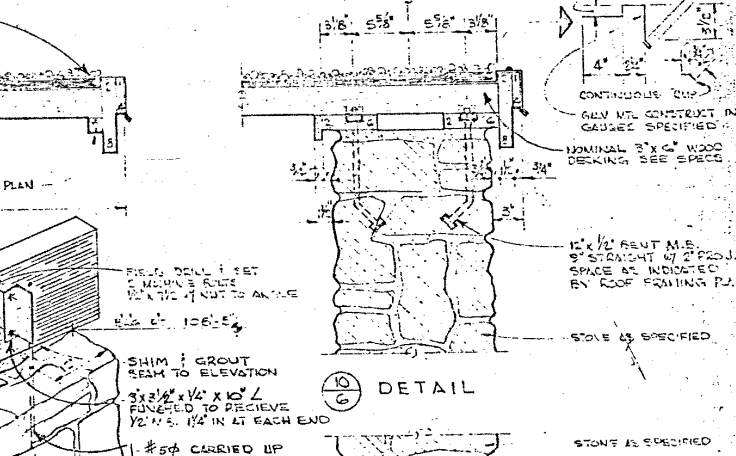
EXISTING AS BUILT PICNIC SHELTER

THIS SHEET IS FROM THE ORIGINAL PLANS. IT SHOWS HOW THE SHELTER WAS BUILT. THE PRESENT ROOF IS DETERIATING AND IS TO BE REMOVED AND REPLACED WITH STEEL TUBE BEAMS IN LIEU OF EXISTING LAMINATED WOOD BEAMS AND THE WOOD DECKING WITH A BUILT UP ROOFING IS TO BE REMOVED AND REPLACED WITH STEEL DECKING.

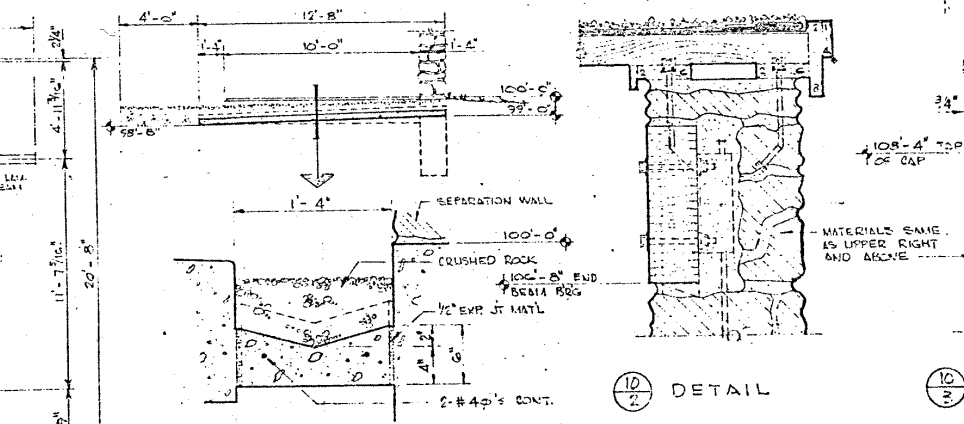
THERE ARE TWO - 2 - TABLE SHELTER UNITS ON THIS PROJECT. BOTH ARE TO RECEIVE NEW METAL ROOFS.  
SEE NEW ROOF DETAILS SHEET 9.



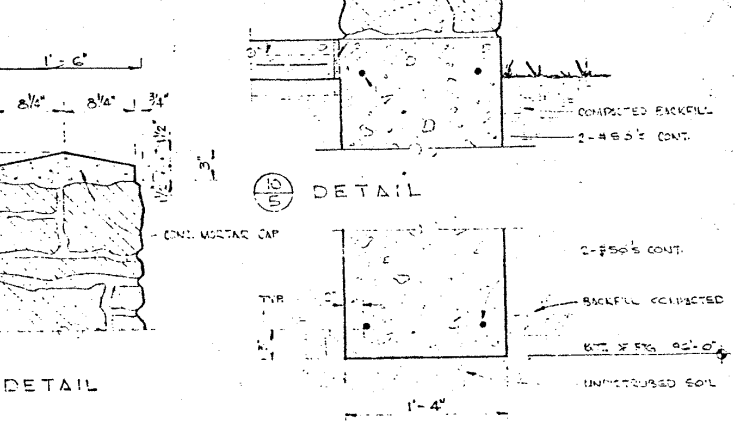
TRANSVERSE SECTION 1/4" = 1'-0"



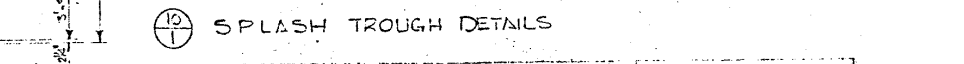
DETAIL 6



DETAIL 7



DETAIL 8



DETAIL 9



DETAIL 10

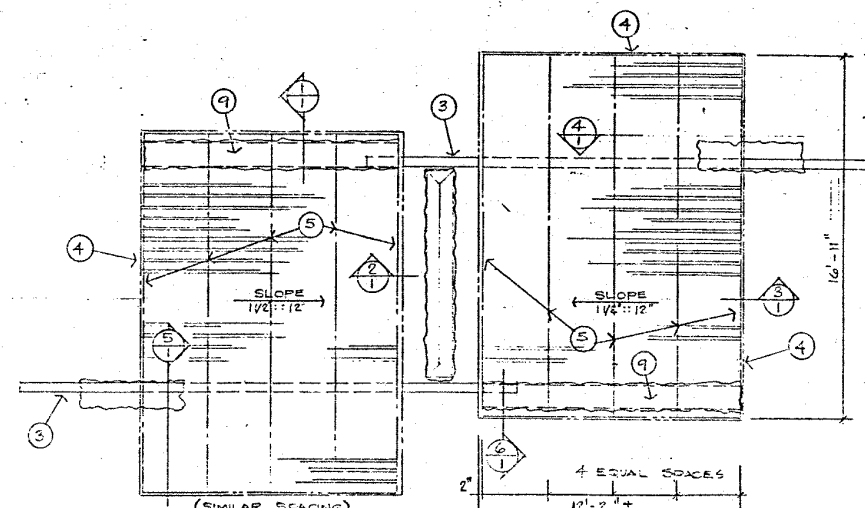
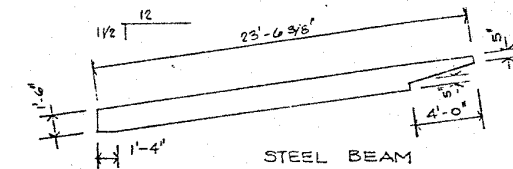
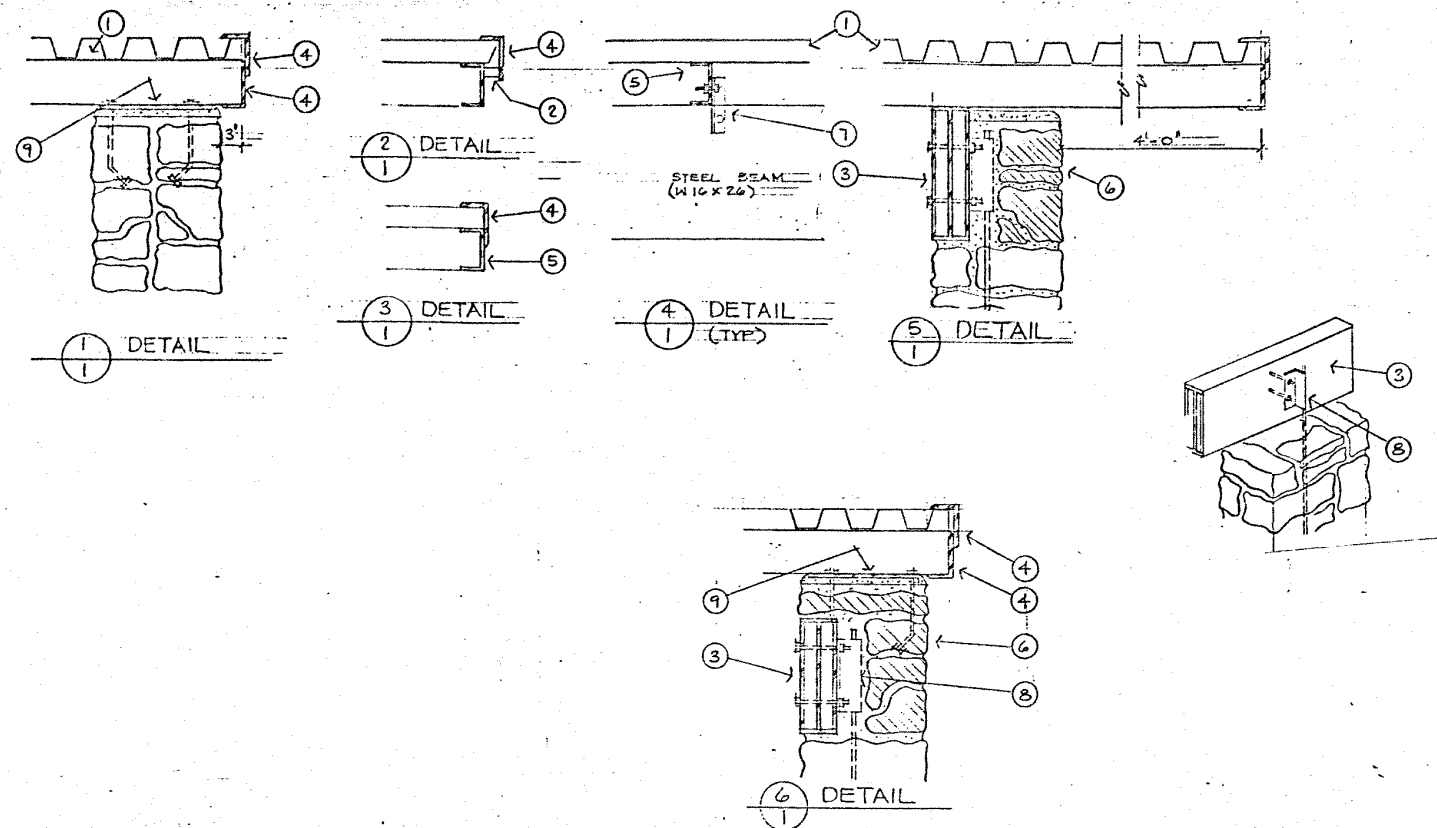
INTERSTATE SAFETY REST AREA ROBERTS COUNTY SOUTH DAKOTA DIVISION OF HIGHWAYS

THE CRAIG ASSOCIATES ARCHITECTS-ENGINEERS 618 1/2 ST JOSEPH STREET RAPID CITY, SOUTH DAKOTA 57701

ORIGINAL PLANS

STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	029 S-172	6	6
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FED. ROAD DIST. NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
5	S.D.	12 29-9(42)25	9	27



1. 20 Ga. Type "N" steel roof deck.
2. Spacers @ 3'-0" on center (1/4" x 2").
3. Steel beam (W16x26) w/ plate welded each side (closed ends).
4. Steel angle 6" x 3-1/2" x 1/4" continuous at roof perimeter.
5. Steel channel 8" x 8.2.
6. Lay up stone & fill around angle with mortar (maintain existing height).
7. Steel angle brackets.
8. Weld new support bracket to existing anchor.
9. Steel plate (1'-4" x 12'-0" ± x 1/4") securely anchored to existing wall.
10. All steel beams, angles, channels, deck and miscellaneous are to be shop primed and field painted with two coats of oil base enamel.