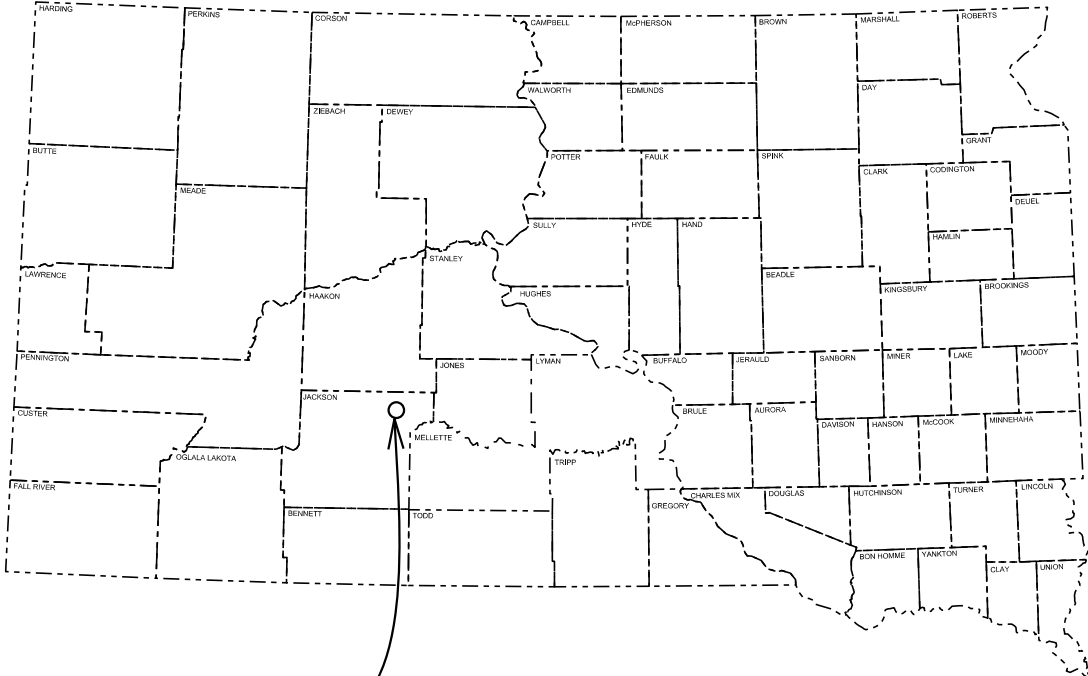


PLOT SCALE - 1"=1.18475

PLOTTED FROM - TRW111020



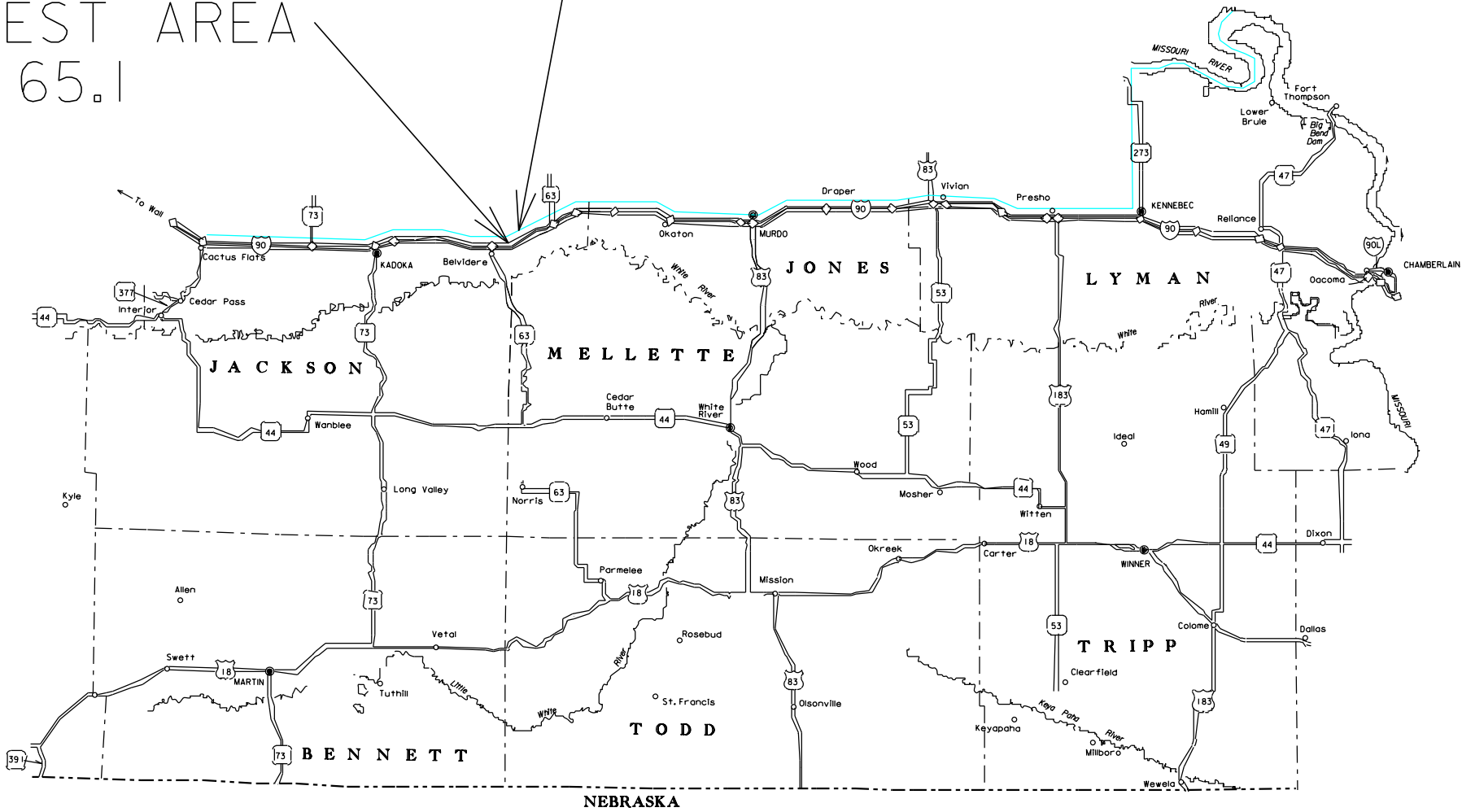
STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
PROJECT 090-391
I90 REST AREAS
JACKSON COUNTY
COLORED CONCRETE SIDEWALK

PCN i7d7

WBL REST AREA
MRM 166.6

PROJECT

EBL REST AREA
MRM 165.1



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	090-391	1	6

Plotting Date: 01/08/2024

INDEX OF SECTIONS

Sheet No. 1	Title Sheet
Sheet No. 2-3	Estimate of Quantities & Plan Notes
Sheet No. 4	EBL Rest Area Layout
Sheet No. 5	WBL Rest Area Layout
Sheet No. 6	Standard Plates



PLOT NAME - 1

FILE - ...\\1707_TITLESHEET.DGN

STORM WATER PERMIT
NO PERMIT REQUIRED

ESTIMATE OF QUANTITIES

PROJECT 090-391 REST AREA COLORED CONCRETE SIDEWALK

Non-Section Method			
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
634E2000	Longitudinal Pedestrian Barricade	172	Ft
651E0540	4" Colored Concrete Sidewalk	945	SqFt

SPECIFICATIONS

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

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified 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. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/media/documents/EnvironmentalProceduresManual.pdf>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site.

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will 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 Public ROW.

The waste disposal site(s) will 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 Agriculture and Natural Resources.

The waste disposal site(s) will 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 Environmental Office and the Project Engineer.

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

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with 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 not to exceed the duration of the project. Prior to project completion, the waste will 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) will be incidental to the various contract items.

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

State Historical Preservation Office (SHPO or THPO) concurrence has not been obtained for this project.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes, but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. 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 if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view of 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 will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. 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.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office to determine an appropriate course of action.

The Contractor is responsible for obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

SCOPE OF WORK

Install longitudinal pedestrian barricades.
Complete excavation for 4" Colored Concrete Sidewalk.
Place granular cushion material
Construct 4" Colored Concrete Sidewalk

Work at the I90 Rest Areas will be coordinated with Jim Lolley, Highway Maintenance Supervisor Murdo (605-669-2371).

4" COLORED CONCRETE SIDEWALK

The colored concrete will have the integral color Solomon Brick Red #417 or an equal approved by the Engineer.

ColorFlo Liquid Color
Color #417 Brick Red
Solomon Colors, Inc.
www.solomoncolors.com

Brick Red requires a rate of 12.50 pounds of Solomon ColorFlo #417 Red per cubic yard of concrete. The colored concrete must be cured according to the manufacturer's recommendations with two coats of a non-yellowing acrylic curing and sealing compound. The curing and sealing compound will meet ASTM C309. The curing and sealing product will be DECRA-SEAL or an equal approved by the Engineer.

4" Colored Concrete Sidewalk will be placed to match the elevation of the existing concrete sidewalk.

The 4" Colored Concrete Sidewalk placed will not be required to comply with ADA regulations.

The existing sidewalk will be protected so that the colored concrete does not stain the existing concrete or other existing items.

Joints in the 4" Colored Concrete Sidewalk will be tooled into the fresh concrete as approved by the Engineer.

Excavation and disposal of excavated material for Colored Concrete Sidewalk will be incidental to the Contract unit bid item price for Colored Concrete Sidewalk. The excavated material will be disposed of at a site as approved by the Engineer.

Expansion joint filler will be placed as approved by the Engineer. Expansion joint filler used around circular structures will be polypropylene foam expansion joint material as approved by the Engineer.

TABLE OF 4" COLORED CONCRETE SIDEWALK

Location	Quantity (SqFt)
I90 EBL Rest Area	570
I90 WBL Rest Area	375
Total:	945

TEMPORARY PEDESTRIAN ACCESS ROUTE

A Temporary Pedestrian Access Route (TPAR) will be provided when crosswalks, sidewalks, or other pedestrian facilities are blocked, closed, or relocated. A TPAR may consist of a combination of existing and/or temporary pedestrian facilities. The TPAR will be kept free of any obstructions and hazards, such as holes, debris, mud, snow, construction equipment, traffic control signing, stored materials, etc.

The Contractor will notify the Engineer at least 72 hours prior to start of any construction operation that will necessitate a change in pedestrian access. Pedestrian traffic signal displays controlling a crosswalk that is closed will be covered or removed.

All costs associated with furnishing temporary pedestrian access route will be incidental to the various contract items.

LONGITUDINAL PEDESTRIAN BARRICADE

Longitudinal pedestrian barricades should not be used to provide positive protection for pedestrians.

To prevent any tripping hazard to pedestrians, ballast will be located behind or internal to the device.

When longitudinal pedestrian barricades are combined in a series, the maximum gap between devices that do not interlock will be one inch. Joints between devices that do interlock will be closed and flush to prevent canes or small wheels from being trapped and to facilitate safe hand trailing. When used as a sidewalk closure mechanism, longitudinal pedestrian barricade must run the entire width of the sidewalk. Longitudinal pedestrian barricade should provide a color contrasting pattern. Black should not be used to color any base on a device. The devices should comply with the general color and stripe pattern requirements of Section 6F.68 of the MUTCD.

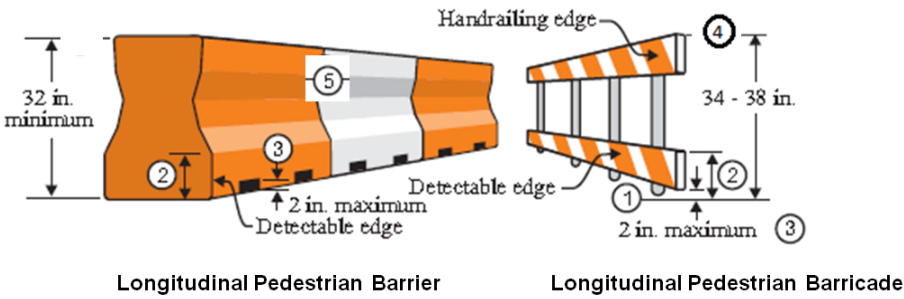
Longitudinal pedestrian barricade will have continuous bottom and top surfaces. The top surface will be smooth to allow safe hand trailing. Both upper and lower surfaces will share a common vertical plane.

Longitudinal pedestrian barricades will be placed adjacent to wherever a drop off exists for the new colored concrete to keep pedestrians away from the drop off as approved by the Engineer.

Longitudinal pedestrian barricades will be placed adjacent to wherever fresh concrete is placed to keep pedestrians off the freshly placed concrete. These longitudinal pedestrian barricades will remain in place until the concrete has sufficient strength to support pedestrian traffic as approved by the Engineer.

All costs will be incidental to the contract unit price per foot for "Longitudinal Pedestrian Barricade".

PEDESTRIAN CHANNELIZING DEVICE DETAILS



- Barricade rail supports may not extend into the pedestrian walkway more than 4 inches from the face of the barricade.
- The top edge of the bottom portion will be a minimum of 8 inches above the walkway.
- Devices will not block water drainage from the walkway. A gap height or opening from the walkway surface up to a maximum of 2 inches in height is allowed for drainage purposes.
- The top edge of the longitudinal pedestrian barricade is to be used as a guiderail to provide visual and tactile guidance to pedestrians along a designated route. The top surface should have a minimum width of 0.5 inches to allow the hand to feel the surface. The surface should be smooth and free of any sharp or abrasive elements to allow safe hand trailing.
- Longitudinal pedestrian barrier used to provide positive protection from traffic to pedestrians should be crashworthy.



240 SqFt Colored
Concrete Sidewalk

I90 EBL Rest Area
Colored Concrete Sidewalk

330 SqFt Colored
Concrete Sidewalk



I90 WBL Rest Area
Colored Concrete Sidewalk

375 SqFt Colored Concrete Sidewalk

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	090-391	6	6

Plotting Date: 01/08/2024

