Section C: TRAFFIC CONTROL PLANS



	STATE OF	PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	P 0025(90)132	C1	C9
	Plotting [)ate: 01/10/2024		
	INE	DEX OF SECTIONS		
C 1	т:4	the Sheet		
02-03	ES1	rimate & Plan Notes		
C4	Siç	jn Layout		
C5-C8	Sto	undard Plates		
С9	I+e	emlized List of Traffi	c Con	trol



Sta. 364+00.0 = Sta. 547+90.0 on F465(3). Located 3229.0 feet North of the Northeast corner of Section 4 - Township 114 North - Range 56 West.

Located 1523.0 feet North of the Southeast corner of Section 33 - Township 114 North - Range 56 West.

SECTION C ESTIMATE OF QUANTITIES

P 0025(90)132

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	240.0	Hour
634E0020	Pilot Car	100.0	Hour
634E0110	Traffic Control Signs	310.8	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0630	Temporary Pavement Marking	25.2	Mile

SEQUENCE OF OPERATIONS

- 1. Install fixed location signing prior to start of work.
- 2. Complete surface preparations.
- 3. Complete prime operations.
- 4. Complete asphalt paving operations.
- 5. Complete flush seal.
- 6. Complete rumble stripe installation
- 7. Complete pavement marking installation.
- 8. Complete all remaining project items.

Contractor requests to deviate from the sequence of operations will be submitted in writing to the Engineer for review. Approval of an alternate sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work. An alternate sequence will be submitted for review a minimum of one week prior to potential implementation.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

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

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Unless otherwise stated in these plans, work will not be allowed during hours of darkness.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The

covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

Traffic will be maintained on the driving lanes. Use of the shoulder as a driving lane will not be permitted. Any damage to the shoulder due to rerouted traffic or Contractor's equipment will be repaired at no expense to the Department.

The Contractor will furnish, install, maintain, and remove TRUCK CROSSING (W8-6) signs daily. The TRUCK CROSSING signs will be displayed always when haul vehicles are hauling material. When hauling conditions no longer exist, the signs will be covered or removed from view. The exact number and location will be determined during construction. Payment for additional signs will be based on the contract unit price per square foot for "Traffic Control Signs".

A mobile work operation will be allowed provided the rumble strip or rumble stripe grooving, flush sealing, and pavement marking can be completed satisfactorily by a continuously moving work operation. A mobile work operation will require approval by the Engineer.

FLAGGING

Operations will be conducted so that the traveling public will not have to wait longer than 15 minutes at the flagger station.

Additional flagger warning signs and **40** flagger hours have been included in the Estimate of Quantities for use on intersecting roads. These flaggers will be used as directed by the Engineer and will be used primarily during daytime hours. Also included in the Estimate of Quantities are WAIT FOLLOW PILOT CAR signs for use on low volume intersecting roads as determined by the Engineer. WAIT FOLLOW PILOT CAR signs will not block the view of the stop sign.



It is required that the flaggers and pilot car operators be able to communicate with one another. If an emergency vehicle needs to pass through the project, the Contractor will be required to expedite traffic movement. All costs associated with this will be incidental to the contract unit price per hour for "Flagging".

TEMPORARY PAVEMENT MARKING

Temporary flexible vertical markers (tabs) will be installed on one side of the centerline rumble for the temporary pavement marking. No passing zones will be marked in accordance with Specifications. DO NOT PASS (R4-1) and PASS WITH CARE (R4-2) signs will also be used in addition to the temporary flexible vertical markers (tabs) placed per Specifications to mark no passing zones.

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required.

Temporary flexible vertical markers (tabs) will be used to mark dashed centerline, No Passing Zones, and applicable lane lines. Paint will not be allowed for temporary pavement marking on the asphalt concrete wear course or after application of the flush seal.

Temporary pavement marking paint will not be allowed on the final lift of asphalt surfacing. Temporary pavement marking paint will not be allowed on the chip seal, fog seal, or flush seal. Temporary flexible vertical markers (tabs) must be used on the final lift of asphalt surfacing. The Contractor may use tabs with covers, uncovering them for the chip seal, fog seal, or flush seal. As an alternative, the Contractor may install new tabs for the fog seal or flush seal.

Covers on the tabs will be sufficiently secured to prevent traffic from dislodging the cover and when removed, the covers will be properly disposed of. The Contractor will remove and properly dispose of the tabs after permanent pavement marking is applied. Method of removal will be nondestructive to the road surface and will be accomplished within one week of completion of the permanent pavement marking.

Full reflectivity of all temporary flexible vertical markers (tabs) is required at all times. The Contractor will be required to replace any missing or non-reflective tabs after each installation as detailed below at no additional cost to the State.

If the Engineer determines that an additional pass prior to the flush seal is not required, this application of the temporary pavement marking will be eliminated. If the flush seal is eliminated for the project, the application of the temporary pavement marking on top of the flush seal as well as the additional pass prior to the flush seal will be eliminated.

No adjustment in the contract unit price for "Temporary Pavement Marking" will be made because of a variation in quantities.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	P 0025(90)132	C2	C9
Plotting I	Date: 01/10/2024		

The total length of no passing zone on this project is estimated to be 2.73

It is estimated that 8 DO NOT PASS and 8 PASS WITH CARE signs will be

Quantities of Temporary Pavement Markings consist of:

- One pass on the first lift of asphalt concrete
- One pass on top of the final lift of asphalt concrete
- One pass prior to the flush seal, length as determined by the Engineer One pass after the flush seal

TEMPORARY PAVEMENT MARKING CONT.

In the absence of a signed lane closure or pilot car operation, FLAGGER (W20-7) symbol signs and flaggers, or a shadow vehicle with rotating yellow lights or strobe lights will be positioned on the shoulder in advance of workers for both directions of traffic during the installation and removal of the temporary flexible vertical markers (tabs). The traffic control device used will be moved intermittently to provide proper warning of the work operation. A ROAD WORK AHEAD (W20-1) sign, a WORKER (W21-1) symbol sign or a BE PREPARED TO STOP (W3-4) sign will be mounted on the rear of the shadow vehicle. The method of traffic control used by the Contractor for this work must be approved by the Engineer.

Prior to nightfall, tabs will be required to mark centerline on segments of roadway where existing centerline markings have been removed and new markings have not been installed.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	P 0025(90)132	C3	C9
Plotting Date: 01/10/2024			

PLOT NAME - 1

FIXED LOCATION GROUND MOUNTED BREAKAWAY SUPPORT SIGNS



W20-1 ROAD WORK AHEAD signs will be mounted on portable supports and will be placed on intersecting roadways as directed by the Engineer. ROAD WORK AHEAD will be moved as necessary to keep current with work activities.



	SHEET	SHEETS
DAKOTA P 0025(90)132 C	C4	C9

Plotting Date: 02/20/2024

Sta. 364+00.0 = Sta. 547+90.0 on F465(3). Located 3229.0 feet North of the Northeast corner of Section 4 - Township 114 North - Range 56 West.

Located 1523.0 feet North of the Southeast corner of Section 33 - Township 114 North - Range 56 West.



ITTED FROM - TRHUINTØ.



Publish	ed Date: 2024	S D D O T		М
	All costs associated with th control for mobile operation signs, arrow boards and eq will be incidental to the con sum price for "Traffic Contro Miscellaneous".	e trafi ⊢inclu uipm tract I ol,	fic Iding ent Iump	
	When an arrow board is us will be used in the caution r Marching Diamonds are ac Arrow boards will, as a min Type B, with a size of 60" x	ed, it node cepta imum 30".	ble. , be	
	Vehicle hazard warning sig not be used instead of the high-intensity rotating, flash oscillating, or strobe lights.	nals v /ehicl iing,	will e's	
	Shadow and Work vehicles display high-intensity rotatin flashing, oscillating, or strol flags, signs, or arrow board	will ng, pe ligi is.	hts,	
	Vehicle-mounted signs will mounted in a manner such they are not obscured by equipment or supplies. Sig on vehicle-mounted signs v covered or turned from view work is not in progress.	be that n leg vill be v whe	ends en	
k	 Messages on signs will var depending on the operation being conducted. 	y I		





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fit field co	un of A may be adj onditions.	ustea to	S	
The buffe so that the placed be curve to distance of stoppe	er space should be ne two-way traffic to efore a horizontal of provide adequate so for the flagger and ed vehicles.	e extended aper is or vertical sight I queue		
Channeli be used control ir required.	izing devices and f at intersecting road itersecting road tra	laggers wil ds to ffic as	I	¥.
Channel along the area whe escorting area.	izing devices are n e centerline adjace en pilot cars are uti g traffic through the z-ozə X80M QY08 QN3	ot required nt to work lized for work		
The char or 42" co	nnelizing devices v ones.	vill be drum	IS	
Flashing may be u advance	warning lights and used to call attention warning signs.	l/or flags on to the		
For tack when fla FRESH in advan	and/or flush seal c ggers are not being OIL sign (W21-2) v ce of the liquid asp	perations, g used, the vill be displ halt areas.	ayed	
The ROA WORK s duration	AD WORK AHEAD igns may be omitte operations (1 hour	and the Electric for short or less).	ND R	OA
For low-v with shor roadway to road u direction	volume traffic situa t work zones on st s where the flagge lsers approaching s, a single flagger	tions raight r is visible from both may be use	ed.	
	Flagger Channelizing Dev	vice		
55 60 - 65	1000	50 50		
45 50	500	50		
35 - 40	350	25		
(M.P.H.)	(A) 200	(G) 25	_	
Work	(Feet)	(Feet)		
	S I/ I/ IC:			









ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

			CONVENTIO	NAL ROAD
SIGN CODE	SIGN DESCRIPTION	NUM BER	SIGN SIZE	SQFT PER SIGN
W8-1	BUMP	4	48" x 48"	16.0
W8-6	TRUCK CROSSING	2	48" x 48"	16.0
W8-11	UNEV EN LA NES	2	48" x 48"	16.0
W13-1P	ADVISORY SPEED (plaque)	2	30" x 30"	6.3
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0
W21-5	SHOULDER WORK	2	48" x 48"	16.0
G20-1	ROAD WORK NEXT 6 MILES	2	36" x 18"	4.5
G20-1	ROAD WORK NEXT 5 MILES	1	36" x 18"	4.5
G20-1	ROAD WORK NEXT 2 MILES	1	36" x 18"	4.5
G20-2	END ROAD WORK	2	36" x 18"	4.5
SPECIAL	WAIT FOLLOW PILOT CAR	4	30" x 18"	3.8
	•	CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT		ROAD IGNS SQFT

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
DAKOTA	P 0025(90)132	C9	C9
Plotting [Date: 01/10/2024		

SQFT
64.0
32.0
32.0
12.6
32.0
32.0
32.0
32.0
9.0
4.5
4.5
9.0
15.2
310.8

PLOT NAME - 1