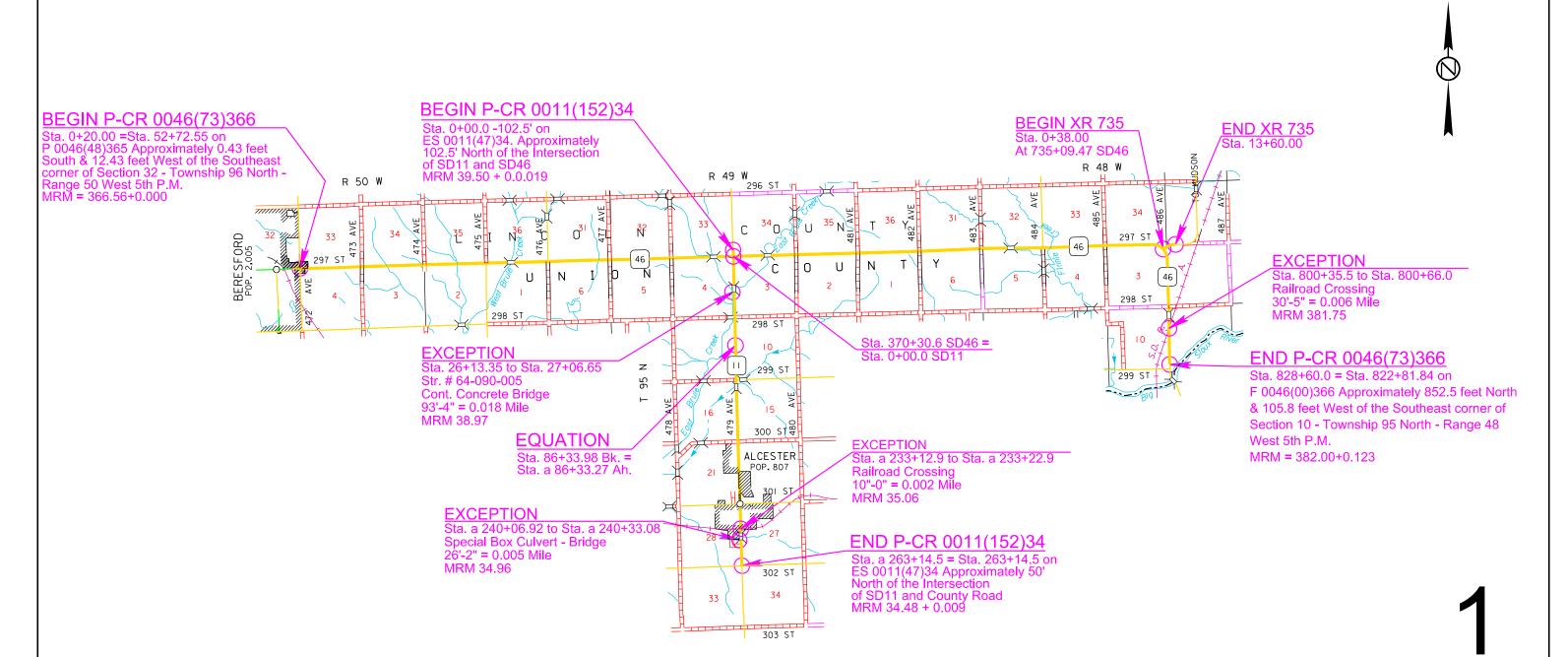
SECTION C: TRAFFIC CONTROL PLANS

INDEX OF SHEETS

C1 General Layout with Index
C2-C4 Estimate and General Notes
C5 Sign Tables
C6- C7 Fixed Location Signing
C8-C10 Detour Signing and Closure Layouts
C11 Special Details
C12-C19 Standard Plates



SECTION C ESTIMATE OF QUANTITIES

P-CR 0046(73)366 PCN 05J5

	·		
BID ITEM			
NUMBER	ITEM	QUANTITY	UNIT
120E0600	Contractor Furnished Borrow	4,113	CuYd
120E6100	Water for Embankment	0.0	MGal
120E6200	Water for Granular Material	0.0	MGal
260E1080	Base Course, Salvaged, State Furnished	15,150.9	Ton
634E0010	Flagging	500.0	Hour
634E0020	Pilot Car	250.0	Hour
634E0110	Traffic Control Signs	1,047.5	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
634E0275	Type 3 Barricade	126	Each
634E0600	4" Temporary Pavement Marking Tape Type I	288	Ft
634E0630	Temporary Pavement Marking	2.0	Mile
634E0700	Traffic Control Movable Concrete Barrier	26	Each
634E0750	Temporary Concrete Barrier End Protection	4	Each
	Temporary Concrete Barrier End Protection Module Set		
634E0760	or Repair Kit	2	Each
634E1002	Detour and Restriction Signing	2,228.6	SqFt

P-CR 0011(152)34 PCN 06QY

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	300.0	Hour
634E0020	Pilot Car	150.0	Hour
634E0110	Traffic Control Signs	478.6	SqFt
634E0120	Traffic Control, Miscellaneous	1	LS
634E0630	Temporary Pavement Marking	15.0	Mile

SEQUENCE OF OPERATIONS

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.

- 1. The project will be separated into three phases for the purpose of sequencing.
 - a. Phase 1: Sta. 0+20 to Sta. 735+00 Mainline PCC Paving
 - b. Phase 2: Sta. 735+00 to Sta. 828+60 & XR 735+00.
 - c. Phase 3: SD 11 Mainline Asphalt Resurfacing
- 2. SD Highway 11 Intersection will be completed half intersection at a time, while maintaining traffic at all times.
- 3. Phase 2 may be completed in conjunction with Phase 1 or independently.
- 4. Phase 2 will be completed half-roadway width at a time.
- 5. Phase 3 may be completed in conjunction with Phase 1, Phase 2, or independently.

Phase 1 Sequencing

- 1. Install fixed location signing and traffic control measures, including Detour Signing.
- 2. Close Phase 1 to traffic.
- 3. Remove for reset applicable permanent signing.
- 4. Maintain cross traffic on SD 11 across SD 46.

SEQUENCE OF OPERATIONS (CONT.)

- 5. Prepare gravel cushion base, pave and seal PCC pavement and asphalt shoulder surfacing.
- 6. Complete inslope shaping and final erosion control work.
- 7. Install permanent pavement markings and applicable permanent signing.
- 8. Open Phase 1 to thru traffic.
- 9. Remove applicable detour signing and temporary traffic control.

Phase 2 Sequencing

- 1. Install fixed location signing and traffic control measures.
- 2. Construct temporary widening and surfacing.
- 3. Divert traffic to east half of roadway.
- 4. Prepare gravel cushion base, pave, and seal PCC pavement on west half of roadway.
- 5. Divert traffic to newly west paved half of roadway and gravel widening.
- 6. Prepare gravel cushion base, pave, and seal PCC pavement and gravel shoulders on east half of roadway.
- 7. Move traffic to new PCC Pavement lanes.
- 8. Pave asphalt shoulder surfacing and crossroad at Sta. 735+00 Lt.
- 9. Remove temporary widening, restore inslopes, and ditches.
- 10. Complete final erosion control work.
- 11. Install permanent pavement markings and applicable permanent signing.
- 12. Open Phase 2 to traffic.
- 13. Remove overwidth temporary traffic control.

Phase 3 Sequencing

- 1. Install fixed location signing and traffic control measures.
- 2. Complete miscellaneous work outside of the shoulders
- 3. Complete cold milling of the roadway surface.
- 4. Complete asphalt surfacing work.
- Install rumble strips, permanent pavement markings and applicable permanent signing.
- 6. Remove fix mounted temporary traffic control.

GENERAL TRAFFIC CONTROL

Mail service and emergency vehicle access will be maintained at all times.

The Contractor will keep businesses and residents informed of construction sequences in areas that have a direct impact on their access.

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.

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.

STATE OF	PROJECT	SHEET		
SOUTH	D 0D0044/450\04	00	SHEETS	
DAKOTA	P-CR0011(152)34	C2	C19	

GENERAL TRAFFIC CONTROL (CONT.)

Existing STOP signs that are removed will be reset prior to the end of each day's work. A stop sign on portable supports must be used whenever a permanent ground mounted stop sign is removed. Cost for this work will be incidental to the contract unit price per square foot for "Traffic Control Signs".

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.

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".

The Contractor will notify businesses/homeowners a minimum of two weeks prior to construction to inform them of upcoming construction and again a minimum of 48 hours prior to any blocked access to make appropriate arrangements.

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.

If inappropriate or conflicting pavement markings exist, the markings will be removed and replaced with applicable temporary pavement markings when the work duration is more than 3 days. When the work duration is less than 3 days, the channelizing devices in the area where the pavement markings conflict will be placed at one-half of the normal channelizing device spacing. Contractor will need to remove and cover white edge line on blotter surface, using an approved method not to damage the in place surface. Pavement marking removals will be incidental to the contract unit price per foot for "Remove Pavement Marking, 4" or equivalent". Temporary pavement marking will be paid for at the contract unit price per mile/foot for "Temporary Pavement Marking". The additional channelizing devices will be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

Intersecting roads located throughout the project will be maintained for cross traffic except for when paving operations are occurring in the immediate area. No more than two consecutive intersections will be closed at a given time. Sufficient traffic control signs have been included in these plans to sign two crossroad closures (See Typical Intersecting Road Closure) and four crossroad pass-throughs (See Standard Plate 634.37).

OVERWIDTH RESTRICTION AND DETOUR SIGNING

The Contractor will furnish and install the overwidth restriction and detour signs as shown in these plans. Prior to installing the signs, the Contractor will mark the sign locations and review them with the Engineer. Overwidth restriction and detour signs will be installed on fixed location, ground mounted, breakaway supports. It will be the responsibility of the Contractor to maintain and reinstall these signs during the project as required by the construction progress. Upon completion of the project, the Contractor will remove the overwidth restriction and detour signs.

An overwidth detour route will be used due to limited lane width on the designated County Road detour route. Route will consist of Interstate 29 South to SD48 and SD48 to Iowa.

Special "WIDTH RESTRICTION 12 FT WIDE 46 EAST", "WIDTH RESTRICTION 12 FT WIDE 46 WEST", and "NO VEHICLES OVER 12FT WIDE" signs will be placed as shown in the plans.

All costs for furnishing the signs, posts, and mounting hardware, and for installing, maintaining, covering, and removing the overwidth restriction and detour signs will be incidental to the contract unit price per square foot for "Detour and Restriction Signing".

TEMPORARY WIDENING

During Phase 2, temporary widening will be constructed from Sta. 735+00 to 828+60 to maintain 26' of roadway width. The 26' roadway width will be measured starting 5' east of centerline and ending 31' east of centerline. A typical section is shown below.

The temporary widening typical section will consist of 12" (4" lifts) of Temporary Gravel Surfacing (Travel Gravel) with the top of the surface elevation constructed to match the existing roadway and roadway crown.

42" cones will be installed marking the edge of travel surface on the temporary widening section, spaced 100' alternating (200' per side). 42" cones will be incidental to the contract lump sum price for Traffic Control, Miscellaneous.

An estimated **12,273.0** cubic yards of Contractor Furnished Borrow Excavation will be needed to construct the temporary widening. The material will be obtained by the Contractor. After completion of the project the excess materials will be removed and disposed of by the Contractor. See Section F for quantity of materials.

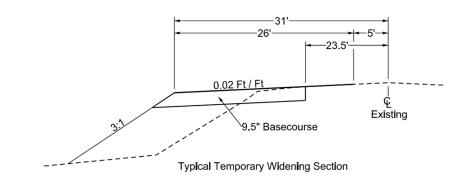
Compaction of the embankment will be to the satisfaction of the Engineer. Water needed to achieve compaction will be incidental to the contract unit price per cubic yard of Contractor Furnished Borrow Excavation.

Cost for hauling, placing, compaction, removing and wasting this material will be incidental to the contract unit price per cubic yard for of Contractor Furnished Borrow Excavation.

Cost for furnishing, hauling, placing, compacting, removing, and reusing of the surfacing materials and embankment will be paid for at their respective contact unit prices.

At no time will a vertical drop-off of greater than 3 inches be left overnight adjacent to the traveled way. The Contractor will utilize embankment material to ensure a 3-inch vertical drop-off is not exceeded. The slope of the embankment material will not be steeper than a 3:1 within 30 feet of the traveled way.

TEMPORARY WIDENING (CONT.)



TEMPORARY GRAVEL SURFACING (TRAVEL GRAVEL)

An estimated **15,150.9** tons of Temporary Gravel Surfacing may be used on this project on the temporary widening or as determined necessary by the Engineer. See Section F for quantity of materials.

An additional 500 tons of Temporary Gravel Surfacing have been provided for the traffic control purposes to maintain traffic during construction. When directed by the Engineer, the Temporary Gravel Surfacing will be salvaged and reused during various phases of construction. Cost to remove, dispose, and/or reuse of this material will be incidental to the contract unit price per ton for Temporary Gravel Surfacing.

The Temporary Gravel Surfacing will be obtained from Base Course, Salvaged from Section F and may be used without further gradation testing.

The Contractor will be required to salvage as much of the Temporary Gravel Surfacing as possible prior to resuming construction. The salvaged Temporary Gravel Surfacing may be used again on the project as Base Course, Salvaged and will be paid for per ton. The material that is not salvaged will be incorporated into the existing subgrade by a method approved by the Engineer.

Compaction to a specified density is not required.

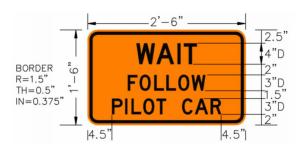
Temporary gravel surfacing will be paid for at the contract unit price per ton for Temporary Gravel Surfacing. Measurement of the Temporary Gravel Surfacing will be by use of scale or as approved by the Engineer. The contract unit price will include all costs associated with hauling, placing, compacting, maintaining, salvaging and stockpiling the material.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH			SHEETS
DAKOTA	P-CR0011(152)34	C3	C19

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 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 P-CR 0011(152)34

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.

The total length of no passing zone on this project is estimated to be 4.8 miles.

It is estimated that 9 DO NOT PASS and 10 PASS WITH CARE signs will be required.

Temporary flexible vertical markers (tabs) will be required on the top lift of asphalt concrete surfacing.

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 flush seal. Temporary flexible vertical markers (tabs) must be used on the final lift of asphalt surfacing. The Contractor may use tabs with covers and uncovering them for the flush seal. As an alternative, the Contractor may install new tabs for the 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.

TEMPORARY PAVEMENT MARKING (CONT.)

Quantities of Temporary Pavement Markings consist of:

One pass on top of the milled surface One pass on the first lift of asphalt. One pass on top of the final lift of asphalt concrete

TEMPORARY PAVEMENT MARKING TAPE. TYPE I

Temporary pavement marking for stop lines will consist of 4" Temporary Pavement Marking Tape Type I. Placement of each 24" white stop line will be accomplished by placing six pieces of 4" x 12' tape adjacent to one another. Each workspace requires two stop lines which is an equivalent of approximately 144' of 4" tape (2 workspaces at 144' = 288'). Temporary Pavement Marking Tape Type I will be required for centerline markings shown on standard plate 634.25. Temporary tape will be removed upon completion of the project.

Temporary stop lines will be placed at the railroad crossing and at the intersection of SD Highway 46 and SD Highway 11.

TEMPORARY RAISED PAVEMENT MARKERS

Temporary raised pavement markers will be used for marking edge lines, lane lines, and centerlines. Temporary raised pavement markers will be used on all new permanent surfacing sections of roadway and on existing surfacing where temporary marking locations are different than existing marking locations, unless noted or as directed by the Engineer.

Temporary raised pavement markers will be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface or with an adhesive approved by the Engineer.

All costs to furnish, install, replace if necessary, and remove the markers will be incidental to the contract unit price per foot or mile for "Temporary Raised Pavement Markers".

INCIDENTS

An incident is an emergency road user occurrence, a natural disaster, or other unplanned event that affects or impedes the normal flow of traffic such as a crash, hazardous materials spill, or other event.

The Contractor will set up a meeting prior to start of work to plan and coordinate responses to an incident. The Contractor will invite the Department of Transportation, the South Dakota Highway Patrol, the Union County and Lincoln County Sheriffs and local emergency response entities to the meeting.

The Contractor will assist to maintain traffic as required by these plan notes and as agreed to at that meeting.

Emergency vehicle access through the project will be considered and discussed at the meeting.

The Contractor may be required to modify messages on portable changeable message signs or relocate portable changeable message signs, and to provide flaggers to direct or detour traffic. The Contractor should be prepared to relocate advance warning signs if determined to be necessary for a major traffic incident lasting more than two hours. Fixed location ground mounted signs may be covered and additional portable signs provided.

No additional payment will be made for the modification of portable changeable message sign messages or the relocation of portable changeable message signs. Cost for the relocation of an advance warning sign due to an incident will be 50% of the designated sign rate. Flaggers will be paid for at the contract unit price per hour for "Flagging".

PRESS RELEASE ANNOUNCEMENTS

The SDDOT will prepare a press release to be released 5 days prior to any phase change or any other major change that affects traffic flow. The SDDOT will be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. The Contractor will provide the Engineer with pertinent information 7 days prior to any phase change or any other major change that affects traffic flow.

TRAFFIC CONTROL MOVABLE CONCRETE BARRIERS

Concrete barriers will be provided by the State and are available for pickup from the SDDOT yard at 5316 W 60th St N. Sioux Falls 57107. Upon completion of the project, the Contractor will return the Traffic Control Movable Concrete Barriers to the same location, as directed by the Engineer.

Each movable concrete barrier section is to have an end to end connection. The barriers will be pinned and bolted together as directed by the Engineer. The cost to anchor the movable concrete barriers will be incidental to contract unit price per each for "Traffic Control Movable Concrete Barrier".

Barriers to be adjusted or moved will be disconnected from adjacent barriers to minimize damage to connecting pins. Pins damaged by the Contractor will be replaced at no cost to the Department.

Concrete barriers will, at all times, be set on a flat surface for a minimum of 3.5 feet behind the barrier.

All costs associated with picking the barriers up from the SDDOT Yard, transporting, setting, connecting, and hauling them back to the SDDOT Yard will be incidental to the contract unit price per each for "Traffic Control Movable Concrete Barrier".

After the initial placement, the concrete barriers may need to be adjusted. Adjustment of the barriers, where they do not need to be loaded on a truck for transport, will be incidental to the contract unit price per each for "Traffic Control Movable Concrete Barrier".

TEMPORARY CONCRETE BARRIER END PROTECTION

Crash attenuators meeting the requirements of NCHRP 350 or MASH TL-3 will be furnished and installed by the Contractor. Attachment of the attenuators to the concrete barriers will be by approved methods.

All costs associated with furnishing, transporting, initial setup, connecting, maintaining, and removing the crash attenuators will be incidental to the contract unit price per each for "Temporary Concrete Barrier End Protection". End protection devices will be installed in accordance with manufacturer's installation instructions. Manufacturer's installation requirements may include a concrete pad.

The Contractor will have replacement hardware available so that in the event the crash attenuator is hit and made unusable, the crash attenuator can be made functional within 24 hours. The cost of replacement is included in the contract unit price per each for "Temporary Concrete Barrier End Module Set or Repair Kit". No payment will be made for the Concrete Barrier End Module Set or Repair Kit in the event that no repairs are necessary. Upon completion of the project, crash attenuators will remain property of the Contractor.

STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	P-CR0011(152)34	C4	C19

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

P-CR 0046(73)366 PCN 05J5 CONVENTIONAL ROAD SQFT SIGN DESCRIPTION NUMBER SIGN SIZE SQFT CODE PER SIGN R1-1 2 30" 5.2 10.4 26 48" x 30" 10.0 260.0 R11-2 ROAD CLOSED ROAD CLOSED __ MILES AHEAD LOCAL TRAFFIC ONLY 60" x 30" 12.5 75.0 R11-4 ROAD CLOSED TO THRU TRAFFIC 60" x 30" 12.5 W1-4b REVERSE CURVE (two lanes shift) (L or R) 1 48" x 48" 16.0 16.0 2 W3-1 STOP AHEAD (symbol) 48" x 48" 16.0 32.0 BE PREPARED TO STOP 2 48" x 48" 16.0 32.0 W3-4 2 48" x 48" W8-1 BUMP 16.0 32.0 W8-6 TRUCK CROSSING 3 48" x 48" 16.0 48.0 2 W13-1P ADVISORY SPEED (plaque) 30" x 30" 6.3 12.6 12 48" x 48" 192.0 W20-1 ROAD WORK AHEAD 16.0 ROAD CLOSED AHEAD 48" x 48" W20-3 4 16.0 64.0 W20-4 ONE LANE ROAD AHEAD 2 48" x 48" 16.0 32.0 4 48" x 48" 64.0 W20-7 FLAGGER (symbol) 16.0 W21-1 2 48" x 48" 16.0 32.0 WORKERS (symbol) SHOULDER WORK 4 48" x 48" 16.0 64.0 W21-6 SURVEY CREW 2 48" x 48" 16.0 32.0 11 G20-2 END ROAD WORK 36" x 18" 4.5 49.5 CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT 1047.5

P-CR 0046	(73)366	PCN	05.15	DETOUR
1 -OI (00 1 0		1 011	0000	

		CONVENTIONAL ROAD			
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R11-3a	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY	2	60" x 30"	12.5	25.0
	_				
	ROAD CLOSED TO THRU TRAFFIC	4	60" x 30"	12.5	50.0
W20-2	DETOUR AHEAD	8	48" x 48"	16.0	128.0
W20-3	ROAD CLOSED AHEAD	22	48" x 48"	16.0	352.0
M1-5	SD ROUTE MARKER (1 or 2 digits)	98	24" x 24"	4.0	392.0
M3-2	DIRECTION MARKER - EAST	51	24" x 12"	2.0	102.0
M3-4	DIRECTION MARKER - WEST	42	24" x 12"	2.0	84.0
M4-8	DETOUR	91	24" x 12"	2.0	182.0
M4-8a	END DETOUR	4	24" x 18"	3.0	12.0
M4-10	DETOUR ARROW (L or R)	2	48" x 18"	6.0	12.0
M5-1	ADVANCE TURN ARROW 90° (L or R)	23	21" x 15"	2.2	50.6
M5-2	ADVANCE TURN ARROW 45° (L or R)	6	21" x 15"	2.2	13.2
M6-1	DIRECTION ARROW - Horizontal Single Head (L or R)	23	21" x 15"	2.2	50.6
M6-3	DIRECTION ARROW - Vertical Single Head	37	21" x 15"	2.2	81.4
M6-4	DIRECTION ARROW - Horizontal Double Head	2	21" x 15"	2.2	4.4
SPECIAL	OVERWIDTH VEHICLES	38	24" x 18"	3.0	114.0
SPECIAL	NO VEHICLES OVER 12 FT WIDE	3	78" x 30"	16.3	48.9
SPECIAL	WIDTH RESTRICTION 12 FT MAX USE ALT ROUTE	1	114" x 84"	66.5	66.5
SPECIAL	WIDTH RESTRICTION 12 FT MAX FOLLOW DETOUR	5	138" x 96"	92.0	460.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					2228.6

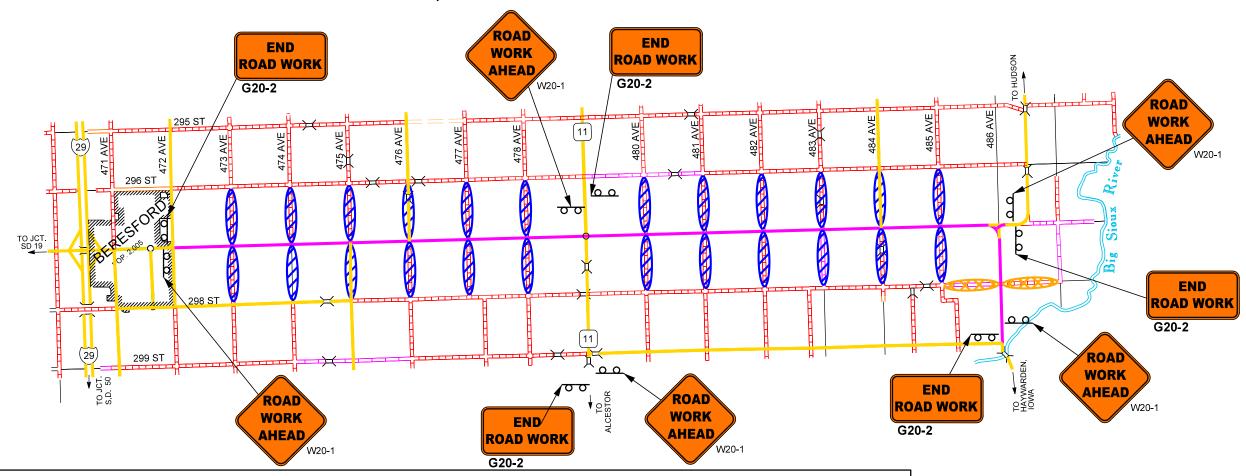
CONVENTIONAL ROAD

 STATE OF SOUTH DAKOTA
 P-CR0011(152)34
 SHEET SHEETS
 TOTAL SHEETS

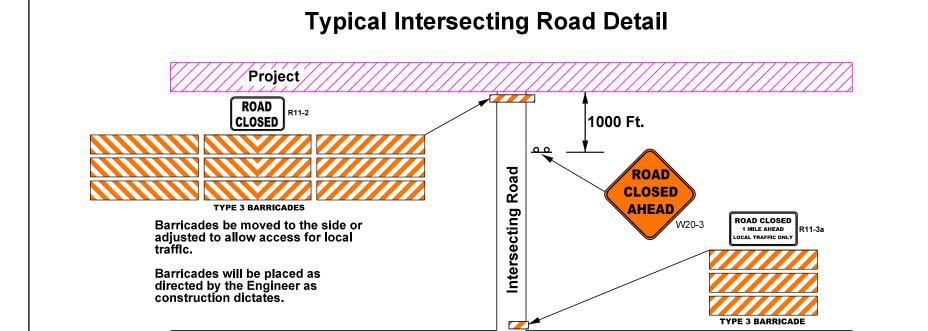
P-CR 0011(152)34 PCN 06QY

CONVENTIONAL ROAD					
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R1-1	STOP	2	30"	5.2	10.4
W1-4	REVERSE CURVE (L or R)	1	48" x 48"	16.0	16.0
W3-1	STOP AHEAD (symbol)	2	48" x 48"	16.0	32.0
W3-4	BE PREPARED TO STOP	2	48" x 48"	16.0	32.0
W8-1	BUMP	2	48" x 48"	16.0	32.0
W8-6	TRUCK CROSSING	3	48" x 48"	16.0	48.0
W8-7	LOOSE GRAVEL	2	48" x 48"	16.0	32.0
W8-11	UNEVEN LANES	2	48" x 48"	16.0	32.0
W13-1P	ADVISORY SPEED (plaque)	2	30" x 30"	6.3	12.6
W16-2P	FEET (supplemental distance plaque)	2	30" x 24"	5.0	10.0
W20-1	ROAD WORK AHEAD	4	48" x 48"	16.0	64.0
W20-4	ONE LANE ROAD AHEAD	4	48" x 48"	16.0	64.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
G20-1	ROAD WORK NEXT XX MILES	6	36" x 18"	4.5	27.0
G20-2	END ROAD WORK	6	36" x 18"	4.5	27.0
SPECIAL	WAIT FOR PILOT CAR	2	30" x 18"	3.8	7.6
			CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT		

FIXED LOCATION SIGNS GROUND MOUNTED, BREAKAWAY SUPPORTS



County/Township Road





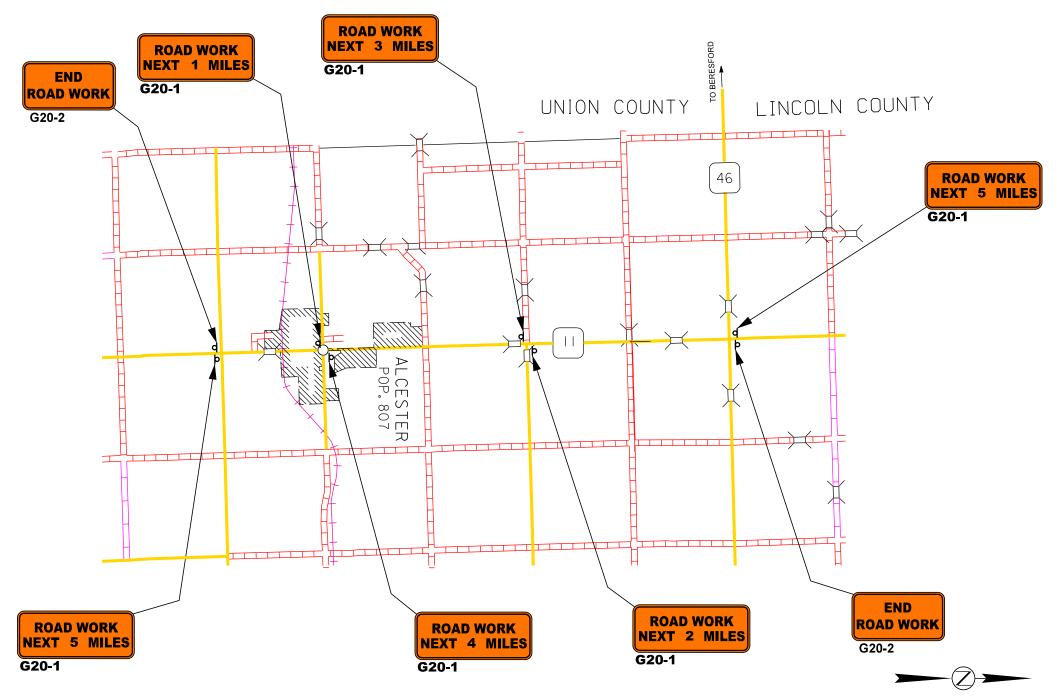
INTERSECTING ROADS TO RECEIVE TRAFFIC CONTROL DURING PHASE 2, INSTALL ONLY WHEN APPLICABLE



ONLY TWO CONSECUTIVE INTERSECTIONS MAY BE CLOSED AT ANY GIVEN TIME. INTERSECTIONS NOT IN THE IMMEDIATE WORK AREA WILL BE SETUP IN ACCORDANCE WITH STANDARD PLATE 634.37.

ALL TEMPORARY TRAFFIC CONTROL SIGNS WILL BE SPACED 100-150' FROM OTHER SIGNS AND NOT OBSCURE EXISTING SIGNS.

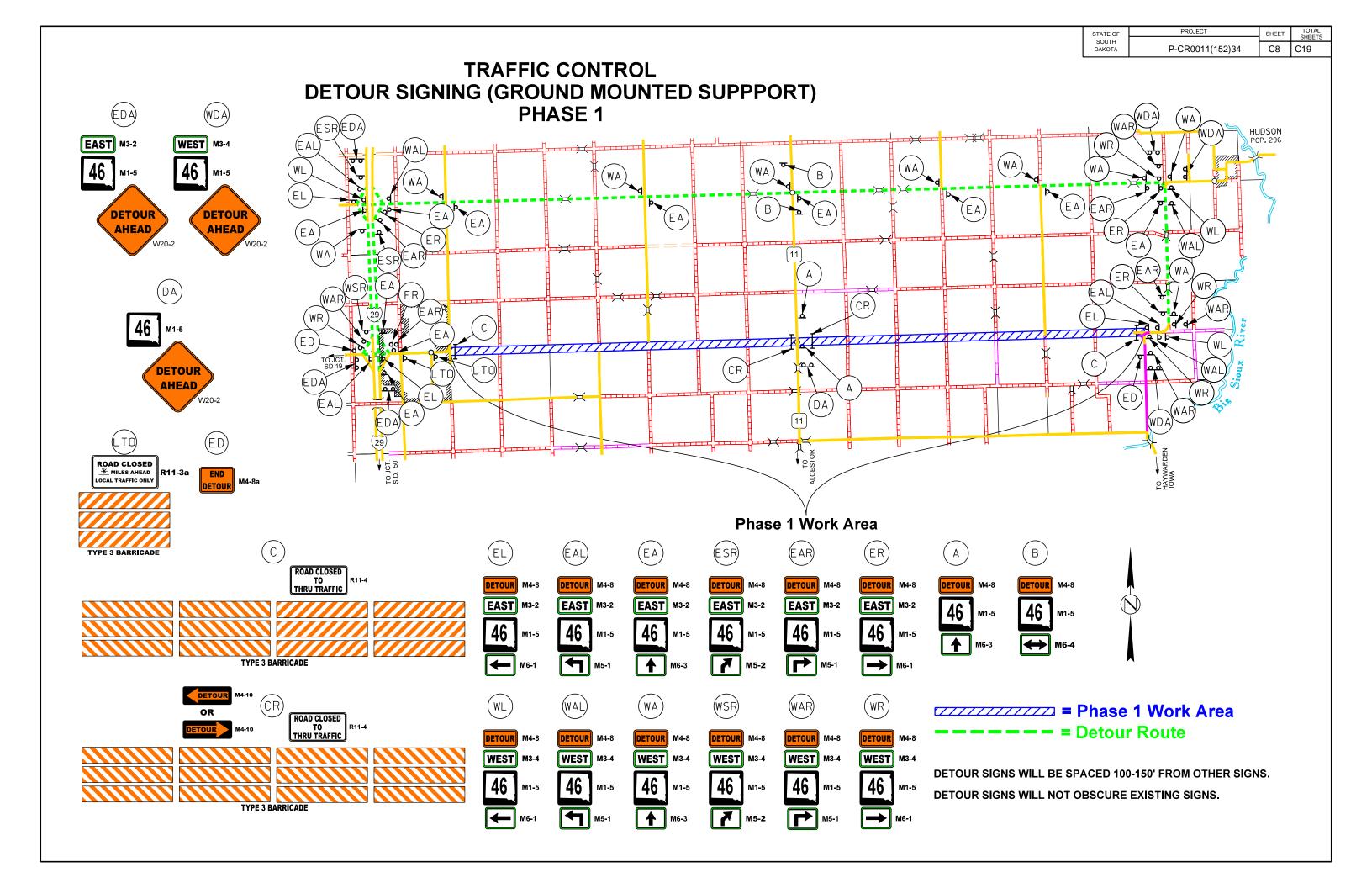
TRAFFIC CONTROL FIXED LOCATION SIGNS (GROUND MOUNTED SUPPPORT) PHASE 3

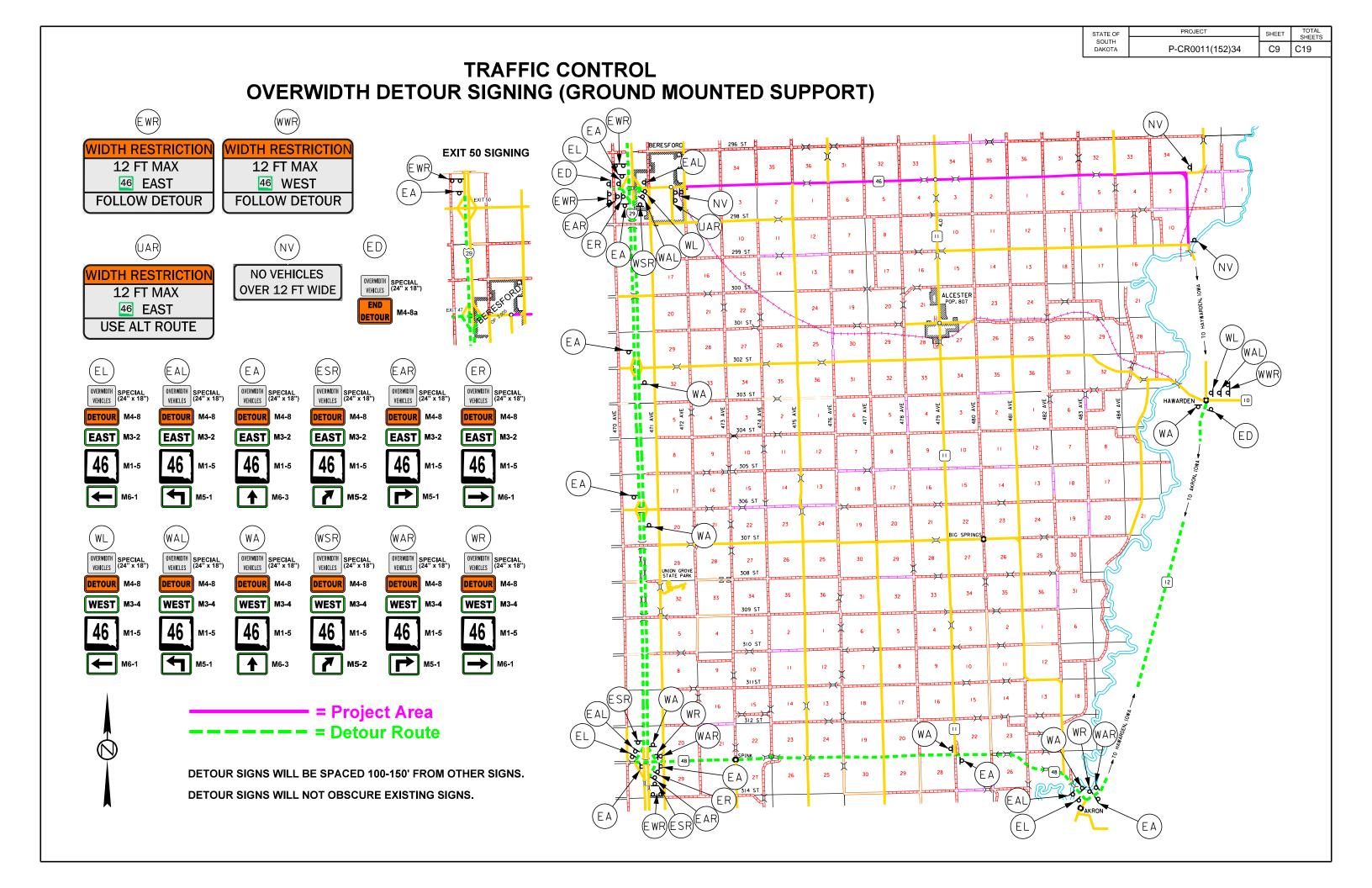


ALL FIXED LOCATION SIGNS WILL REMAIN IN PLACE UNTIL PAVEMENT MARKING IS COMPLETE.

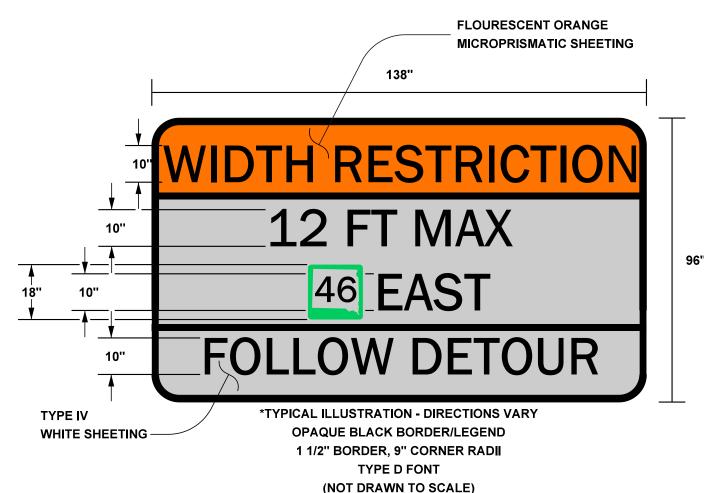
SIGNS WILL BE PLACED 50' TO 150' FROM INTERSECTION. EXACT LOCATION TO BE APPROVED BY THE ENGINEER.

ALL TEMPORARY TRAFFIC CONTROL SIGNS WILL BE SPACED 100-150' FROM OTHER SIGNS AND NOT OBSCURE EXISTING SIGNS.





SPECIAL SIGN DETAILS OVERWIDTH DETOUR SIGNING (GROUND MOUNTED SUPPORT)



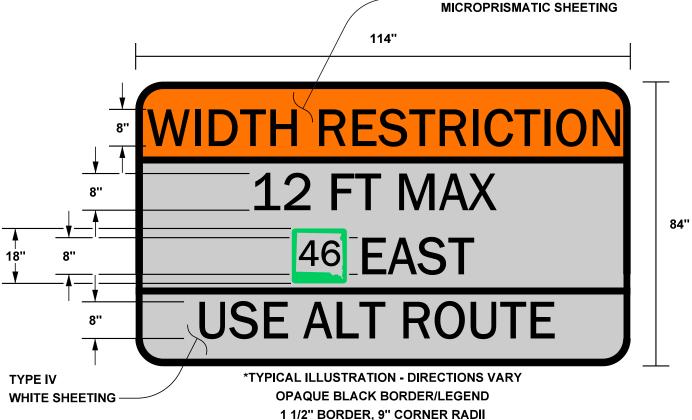
OVERWIDTH

4"

VEHICLES

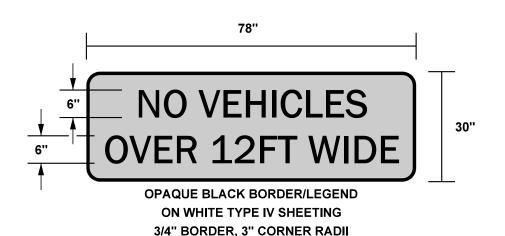
OPAQUE BLACK BORDER/LEGEND
ON WHITE TYPE IV SHEETING
1/2" BORDER, 1 1/2" CORNER RADII
TYPE D FONT
(NOT DRAWN TO SCALE)

FLOURESCENT ORANGE



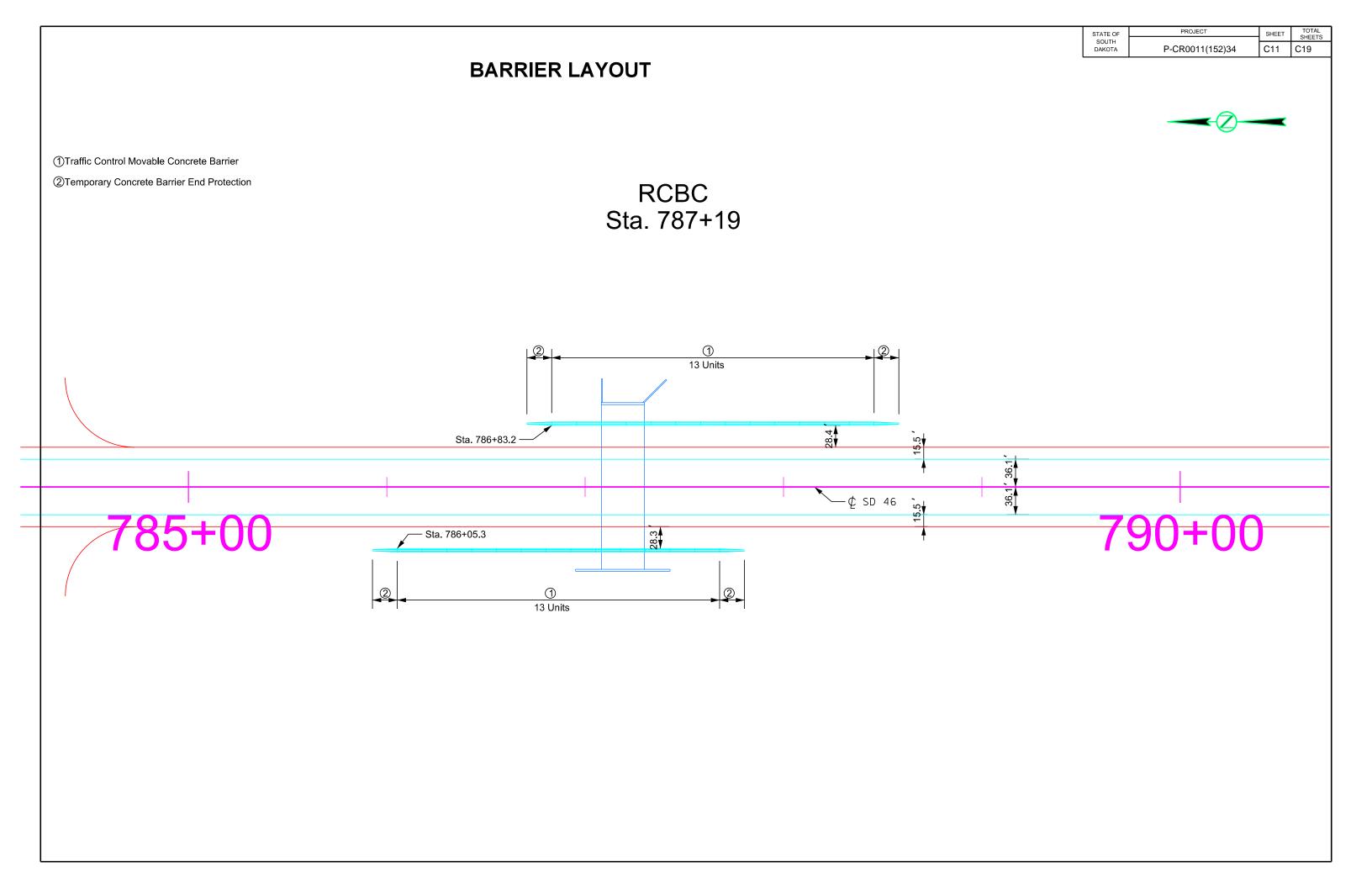
TYPE D FONT

(NOT DRAWN TO SCALE)



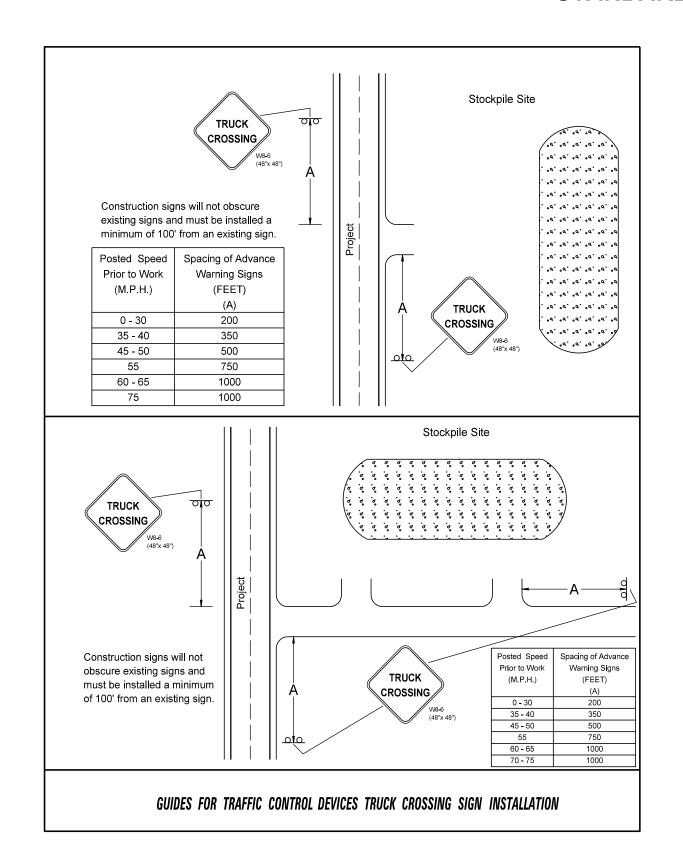
TYPE D FONT

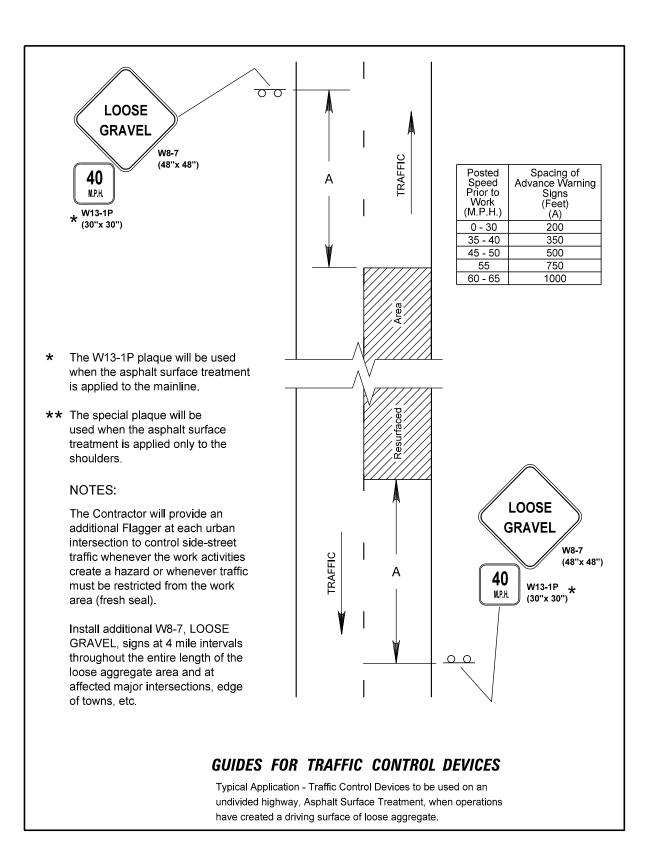
(NOT DRAWN TO SCALE)



٦	STATE OF	PROJECT	SHEET	TOTAL SHEETS
- 1	SOUTH			SHEETS
١	DAKOTA	P-CR0011(152)34	C12	C19

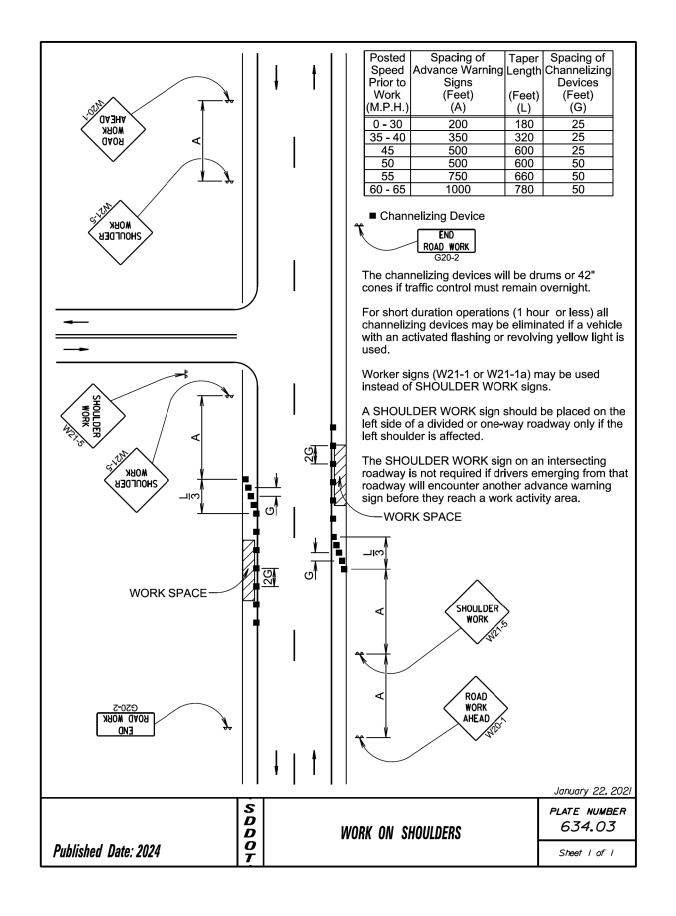
STANDARD DETAILS





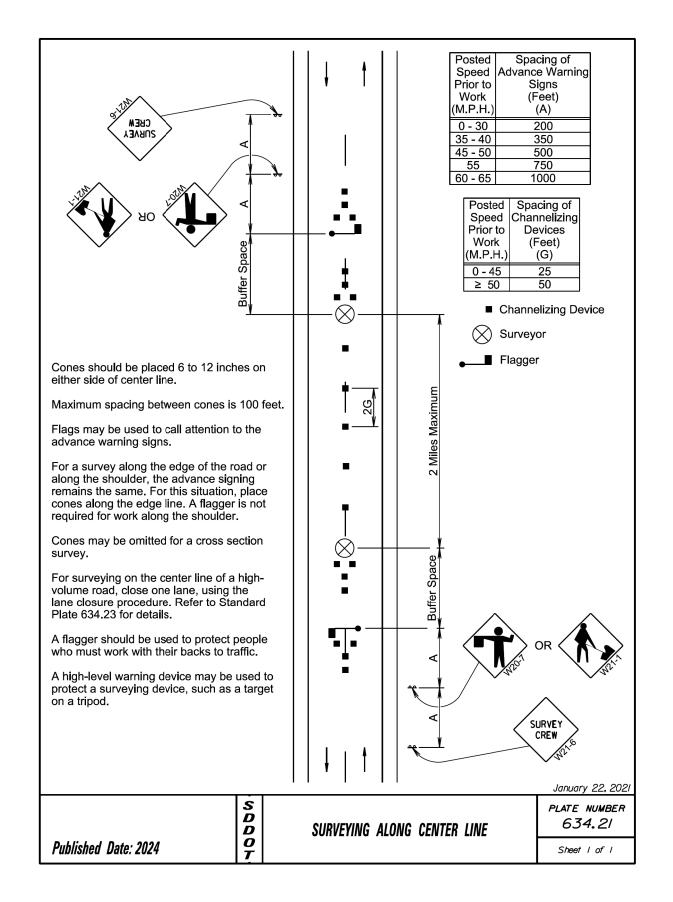
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 1 feet or more from the edge of any roadway. The signs illustrated will be used when there are distracting situations; such a vehicles parked on shoulder, vehicles accessing the work site via the highwall and equipment traveling on or crossing the roadway to perform work operation.	re as: ay,	Posted Speed Advisor Frior to Work (M.P.H.) 0 - 30 35 - 40 45 - 50 55 60 - 80	Spacing of ance Warning Signs (Feet) (A) 200 350 500 750 1000
The ROAD WORK AHEAD sign may with other appropriate signs, such as the SHOULDER WORK sign. The SH WORK sign may be used for work adj the shoulder. * If the work space is on a divided highway, an advance warning sign should also be placed on the left sid of the directional roadway.	HOULDER lacent to	WORK	
For short term, short duration, or mob operations, all signs and channelizing devices may be eliminated if a vehicle an activated flashing or revolving yello light is used.	e with		
			A
	(*)	ROAD WORK AHEAD	<u>'</u>
		YOND THE SHOULDER	January 22, 2021 PLATE NUMBER 634.01
	0 7		Sheet I of I

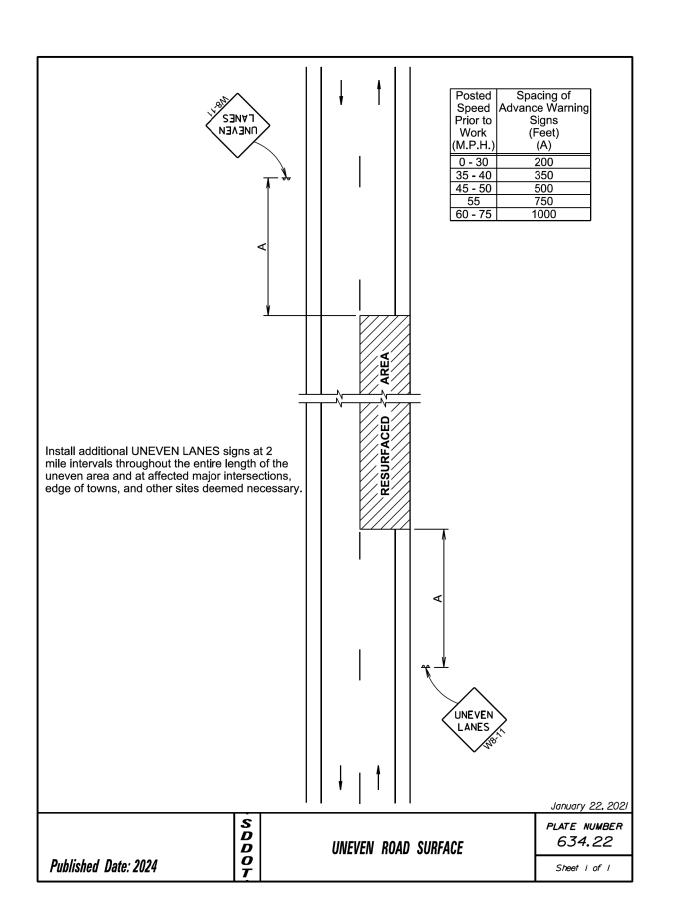
STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH			SHEETS
DAKOTA	P-CR0011(152)34	C13	C19



STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	P-CR0011(152)34	C14	C19

* Messages on signs will vary depending on the operation being conducted. Vehicle-mounted signs will be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs will be covered or turned from view when work is not in progress. Shadow and Work vehicles will display high-intensity rotating, -Work Vehicle flashing, oscillating, or strobe lights, flags, signs, or arrow boards. Arrow Board Vehicle hazard warning signals will not be used instead of the vehicle's Truck Mounted Attenuator high-intensity rotating, flashing, (optional) oscillating, or strobe lights. WET PAINT 🛨 When an arrow board is used, it will be used in the caution mode. PASS WITH CARE Marching Diamonds are acceptable. Arrow boards will, as a minimum, be Type B, with a size of 60" x 30". All costs associated with the traffic control for mobile operation including -Shadow Vehicle signs, arrow boards and equipment will be incidental to the contract lump -Arrow Board 🗜 sum price for "Traffic Control, Miscellaneous". Truck Mounted Attenuator WET PAINT PASS WITH CARE January 22, 202 SDDOT PLATE NUMBER 634.06 MOBILE OPERATIONS ON 2-LANE ROAD Published Date: 2024 Sheet I of I

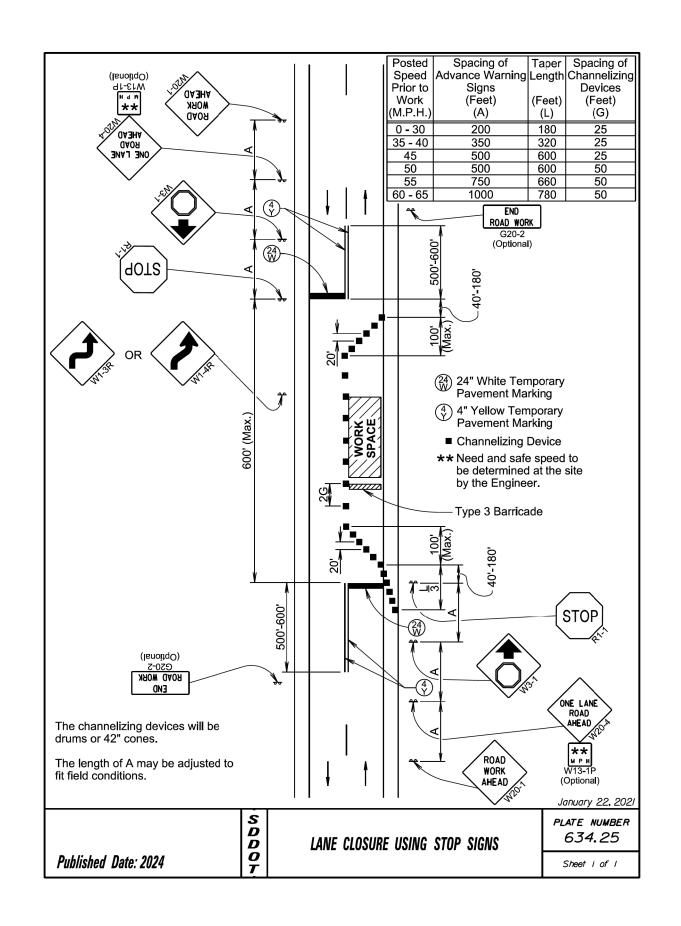


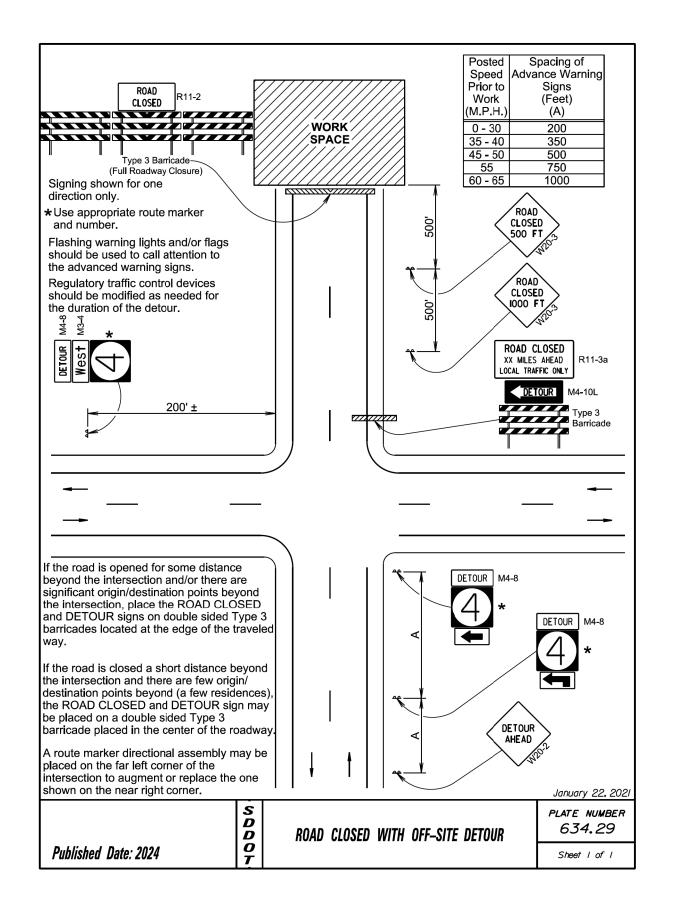


STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	P-CR0011(152)34	C15	C19

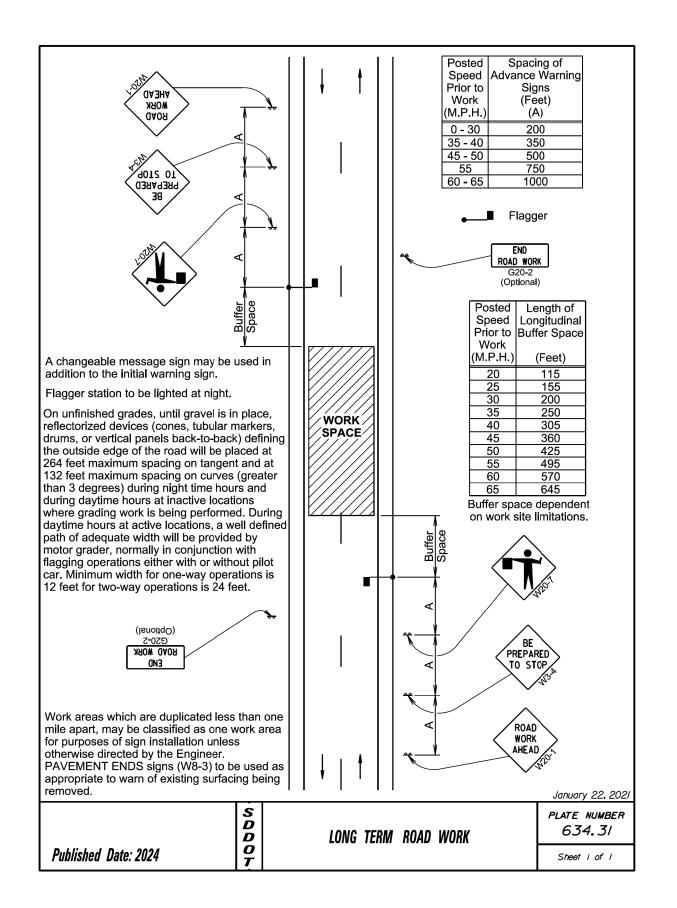
Posted Spacing of Advance Warning Signs Work (Feet) (M.P.H.) (A) 0 - 30 200 35 - 40 350 45 500 50 500 55 750 60 - 65 1000 Flagger Channelizing De For low-volume traffic situation with short work zones on stroadways where the flagget to road users approaching directions, a single flagger The ROAD WORK AHEAD WORK signs may be omitted duration operations (1 hour for tack and/or flush seal of when flaggers are not bein FRESH OIL sign (W21-2) in advance of the liquid aspect of the liq	Devices (Feet) (G) 25 25 25 50 50 50 vice tions traight er is visible from both may be used. and the END ROAL ed for short r or less). Deparations, g used, the will be displayed chalt areas. d/or flags on to the will be drums not required ent to work ilized for e work	A 100° Sole Laber Two-way Traffic Taper	
along the centerline adjace area when pilot cars are ut escorting traffic through the area. 2-025 WOWD WORK	flaggers will ds to affic as e extended caper is or vertical sight d queue justed to	ONE RO AH	AD A
Published Date: 2024	S D D O T	LANE CLOSURE WITH FLAGGER PROVIDED	PLATE NUMBER 634.23

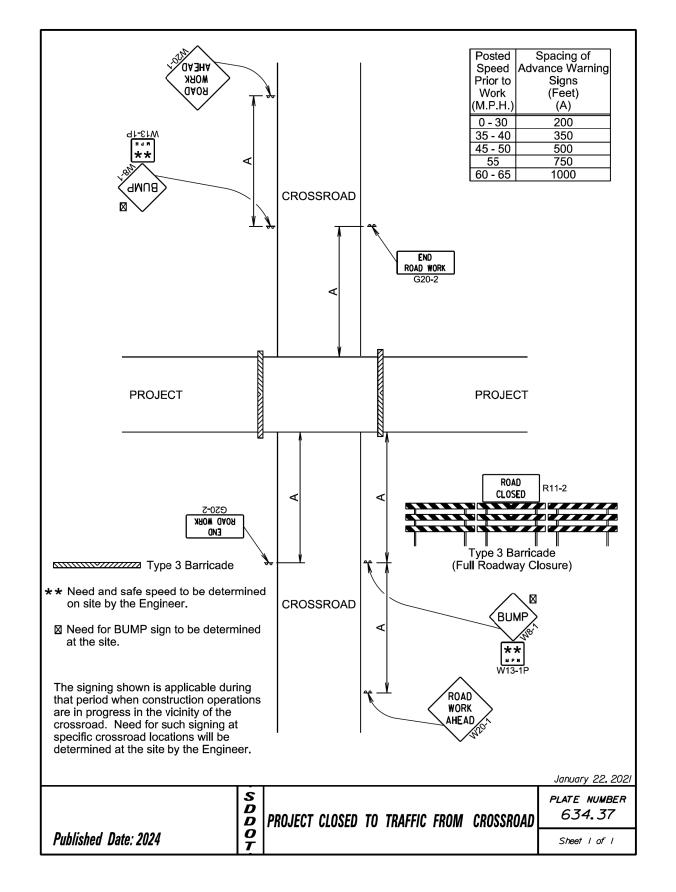
	STATE OF	PROJECT	SHEET	TOTAL
ı	SOUTH			SHEETS
ı	DAKOTA	P-CR0011(152)34	C16	C19



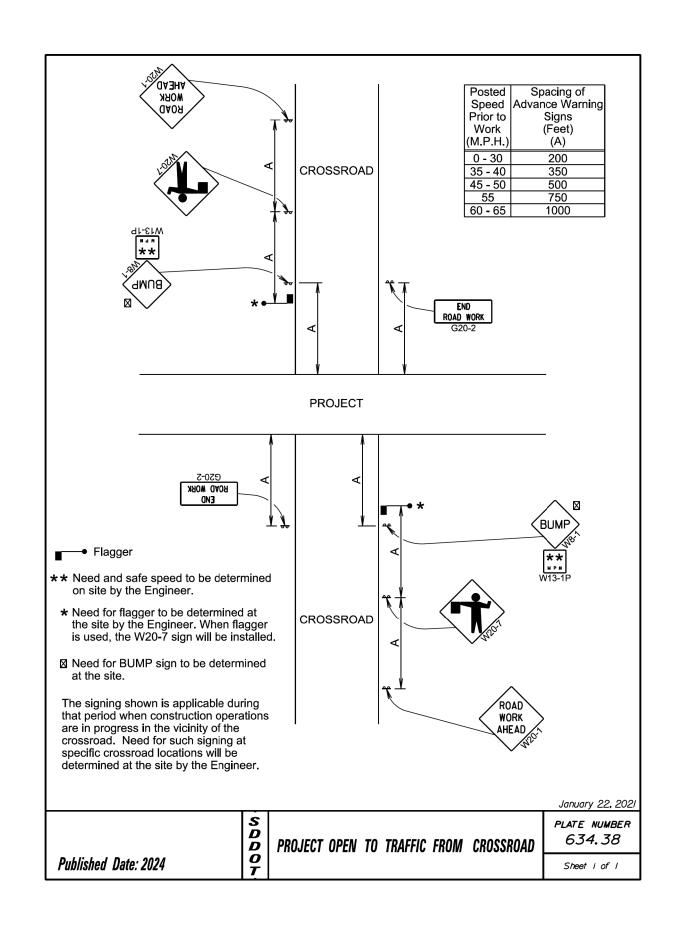


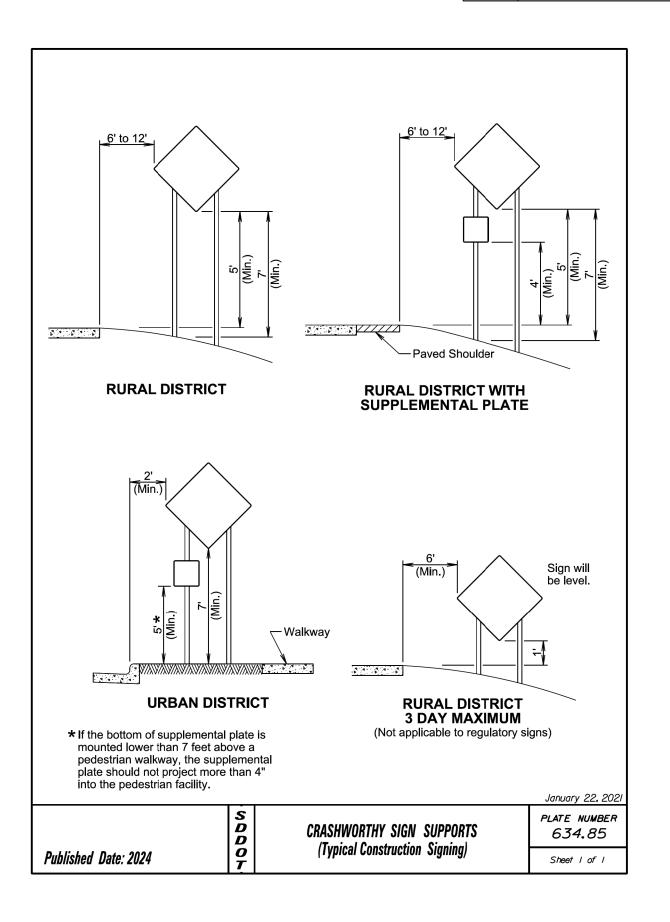
STATE OF	PROJECT	SHEET	TOTAL SHEETS	
SOUTH DAKOTA	P-CR0011(152)34	C17	C19	



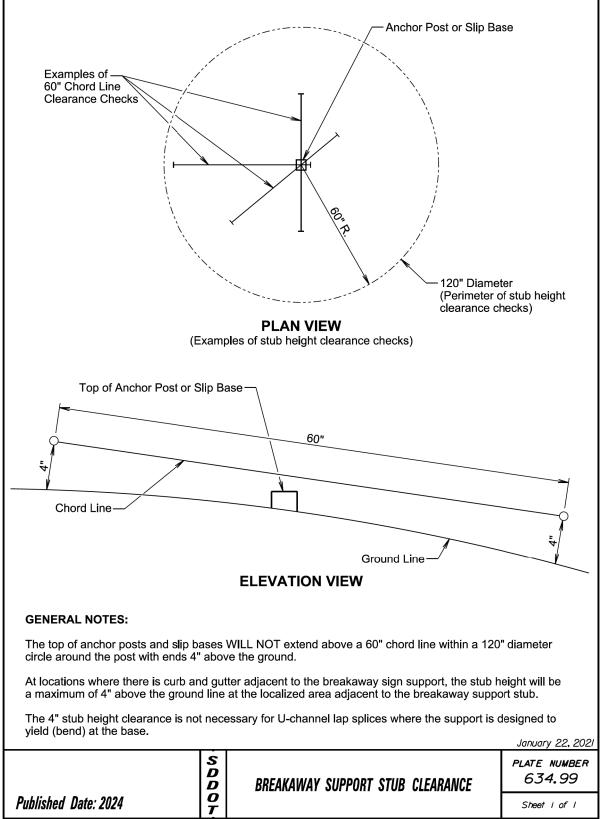


STATE OF	PROJECT	SHEET	TOTAL SHEETS
SOUTH DAKOTA	P-CR0011(152)34	C18	C19









BREAKAWAY SUPPORT STUB CLEARANCE

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plate number 634.99
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