



SECTION C ESTIMATE OF QUANTITIES

| BID ITEM NUMBER | ITEM                           | QUANTITY | UNIT |
|-----------------|--------------------------------|----------|------|
| 634E0010        | Flagging                       | 700.0    | Hour |
| 634E0020        | Pilot Car                      | 225.0    | Hour |
| 634E0110        | Traffic Control Signs          | 539.0    | SqFt |
| 634E0120        | Traffic Control, Miscellaneous | Lump Sum | LS   |
| 634E0630        | Temporary Pavement Marking     | 45.0     | Mile |

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the 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.

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.

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.

Included in the Itemized list for Traffic Control Signs table is (W8-1) BUMP signs to be used at areas where cold mill transitions occur as deemed necessary by the Engineer.

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.

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

The total length of no passing zone on this project is estimated to be 5.2 miles.

It is estimated that 13 DO NOT PASS (R4-1) and 13 PASS WITH CARE (R4-2) signs will be required to mark the no passing zones, should the Contractor elect to use these signs.

Temporary flexible vertical markers (tabs) may be used as detailed in the specifications.

Revised  
05/05/2026

| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET | TOTAL<br>SHEETS |
|-----------------------------|----------------|-------|-----------------|
|                             | P 0025(105)149 | C2    | C8              |

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.

Quantities of Temporary Pavement Markings consist of:

- One pass on top of the primed surface
- 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

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.

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.

TRAFFIC CONTROL FOR ASPHALT CONCRETE RESURFACING

The Contractor will need to install LOOSE GRAVEL (W8-7) signs with advisory speed plaques (W13-1P) in areas where loose sand is present during the flush seal operation. LOOSE GRAVEL signs have been included in these plans for this.

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

|              |                         | CONVENTIONAL ROAD                               |           |                  |      |
|--------------|-------------------------|-------------------------------------------------|-----------|------------------|------|
| SIGN<br>CODE | SIGN DESCRIPTION        | NUMBER                                          | SIGN SIZE | SQFT<br>PER SIGN | SQFT |
| W8-1         | BUMP                    | 6                                               | 48" x 48" | 16.0             | 96.0 |
| W8-6         | TRUCK CROSSING          | 2                                               | 48" x 48" | 16.0             | 32.0 |
| W8-7         | LOOSE GRAVEL            | 4                                               | 48" x 48" | 16.0             | 64.0 |
| W8-11        | UNEVEN LANES            | 4                                               | 48" x 48" | 16.0             | 64.0 |
| W13-1P       | ADVISORY SPEED (plaque) | 4                                               | 30" x 30" | 6.3              | 25.2 |
| W20-1        | ROAD WORK AHEAD         | 5                                               | 48" x 48" | 16.0             | 80.0 |
| W20-4        | ONE LANE ROAD AHEAD     | 2                                               | 48" x 48" | 16.0             | 32.0 |
| W20-7        | FLAGGER (symbol)        | 4                                               | 48" x 48" | 16.0             | 64.0 |
| W21-2        | FRESH OIL               | 2                                               | 48" x 48" | 16.0             | 32.0 |
| SPECIAL      | WAIT FOLLOW PILOT CAR   | 6                                               | 30" x 18" | 3.8              | 22.8 |
| G20-1        | ROAD WORK NEXT 9 MILES  | 2                                               | 36" x 18" | 4.5              | 9.0  |
| G20-1        | ROAD WORK NEXT 6 MILES  | 1                                               | 36" x 18" | 4.5              | 4.5  |
| G20-1        | ROAD WORK NEXT 3 MILES  | 1                                               | 36" x 18" | 4.5              | 4.5  |
| G20-2        | END ROAD WORK           | 2                                               | 36" x 18" | 4.5              | 9.0  |
|              |                         | CONVENTIONAL ROAD<br>TRAFFIC CONTROL SIGNS SQFT |           |                  |      |
|              |                         | 539.0                                           |           |                  |      |

PLOT SCALE - 1"=478.37'

PLOTTED FROM - TRHJUNT07

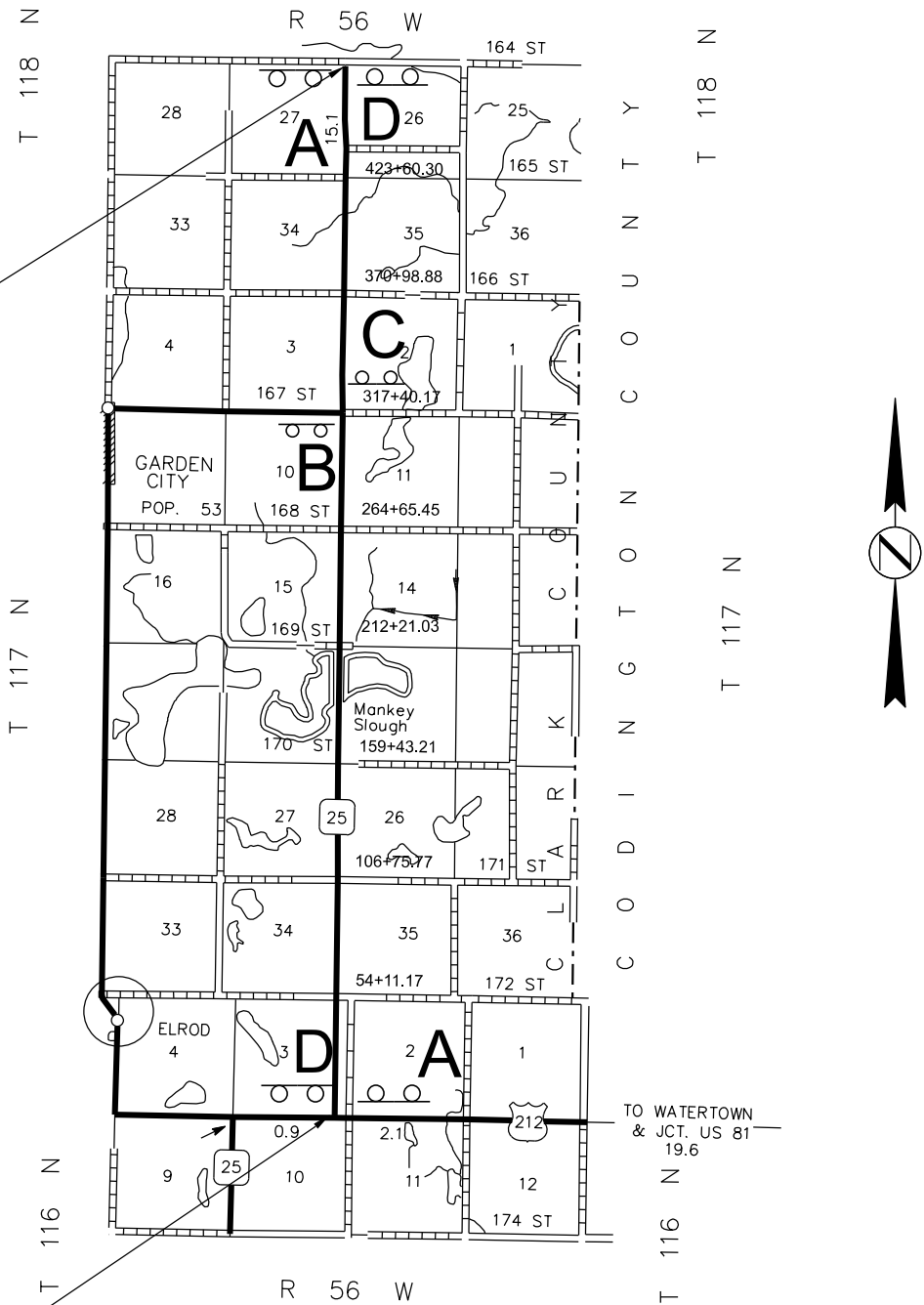
| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET<br>NO. | TOTAL<br>SHEETS |
|-----------------------------|----------------|--------------|-----------------|
|                             | P 0025(105)149 | C4           | C8              |
| Plotting Date: 3/3/2026     |                |              |                 |

# FIXED LOCATION GROUND MOUNTED BREAKAWAY SUPPORT SIGNS

Revised  
05/05/2026

**END P 0025(105)149**  
Station 476+13 = Station 210+92.60 on F 465(1)  
Located at northeast corner of Section 27 -  
Township 118 North - Range 56 West of the 5th PM  
MRM 158.00+0.834

**BEGIN P 0025(105)149**  
Station 0+86 = Station 687+52.30 on F 465(1)  
Located 654 feet West of the southeast corner of Section  
3 - Township 116 North - Range 56 West of the 5th PM  
MRM 149.80+0.000



ROAD WORK  
NEXT 9 MILES

A

ROAD WORK  
NEXT 6 MILES

B

ROAD WORK  
NEXT 3 MILES

C

END  
ROAD WORK

D

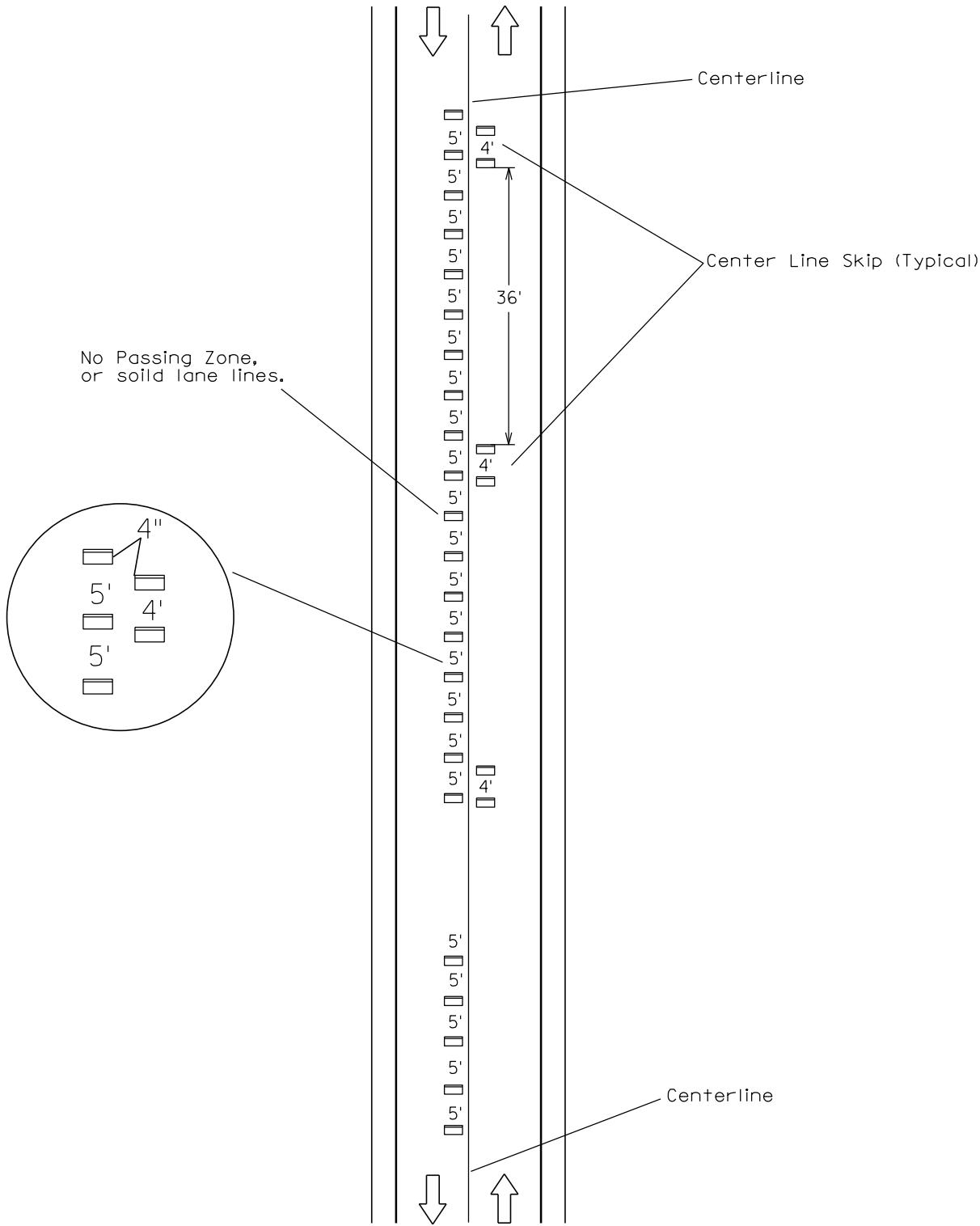
NOTES:  
1. W20-1 signs are also to be used per the  
applicable standard plate.

PLOT NAME - \$\$\$PLOTNAME\$\$

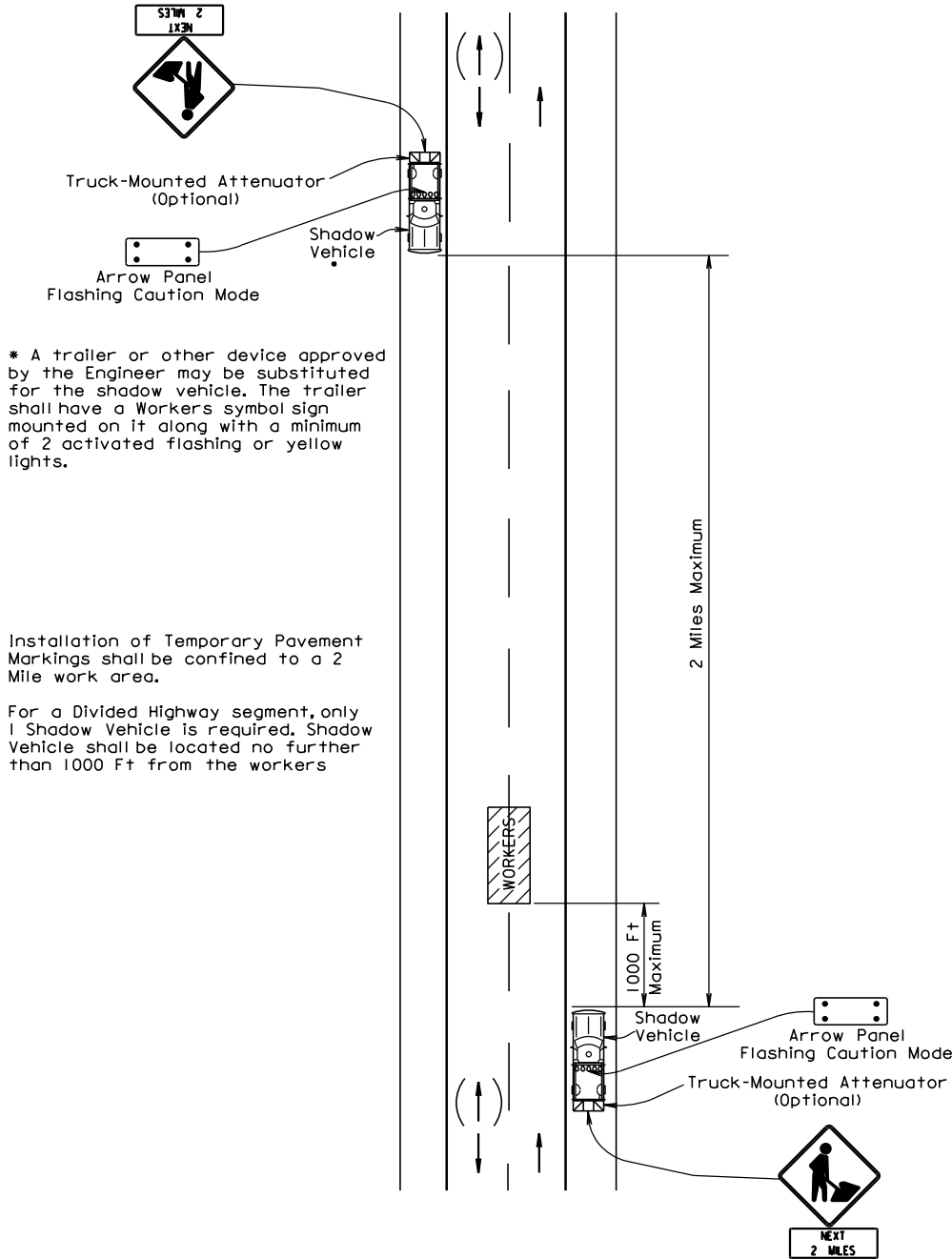
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| STATE OF<br>SOUTH<br>DAKOTA | PROJECT        | SHEET<br>NO. | TOTAL<br>SHEETS |
|-----------------------------|----------------|--------------|-----------------|
|                             | P 0025(105)149 | C5           | C8              |
| Plotting Date: 3/2/2026     |                |              |                 |

GUIDES FOR TRAFFIC CONTROL DEVICES TEMPORARY ROAD MARKER INSTALLATION



GUIDES FOR TRAFFIC CONTROL DEVICES APPLICATION OF TEMPORARY PAVEMENT MARKING TABS



\* 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.

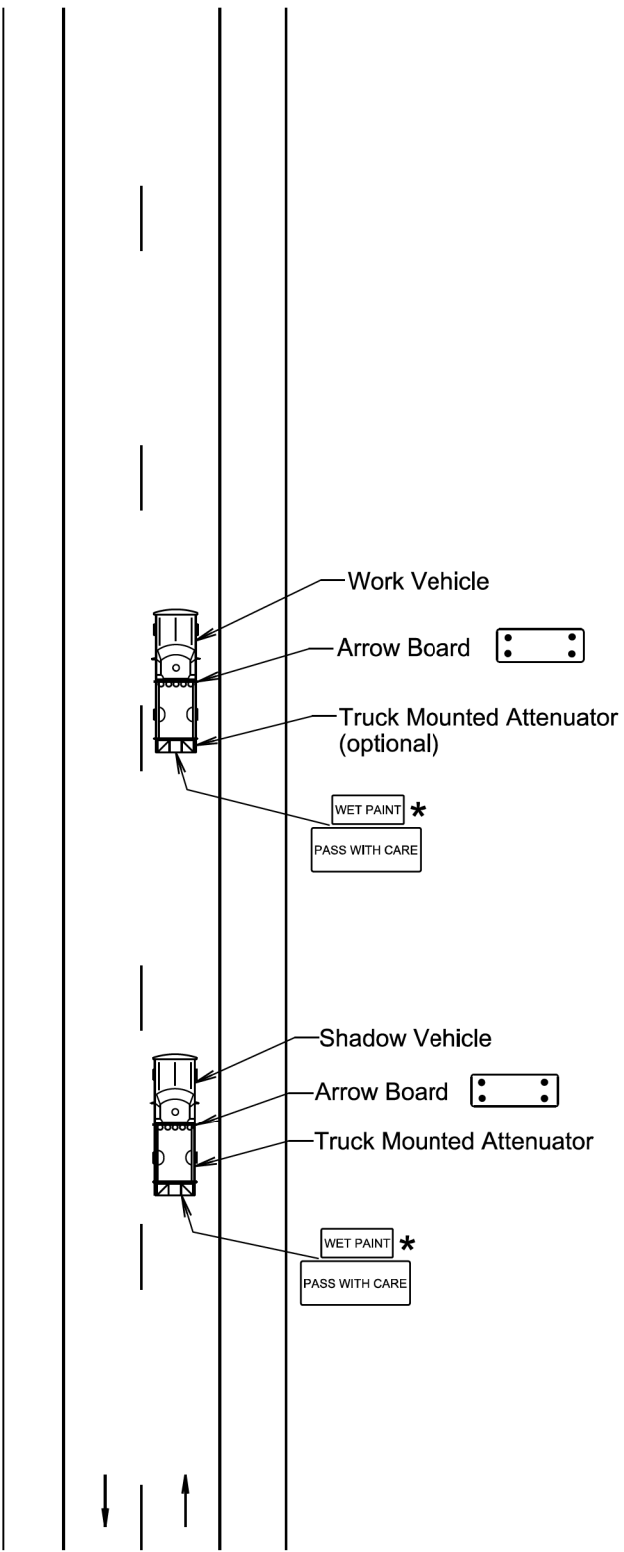
Shadow and Work vehicles will display high-intensity rotating, flashing, oscillating, or strobe lights, flags, signs, or arrow boards.

Vehicle hazard warning signals will not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.

When an arrow board is used, it will be used in the caution mode. Marching Diamonds are acceptable.

Arrow boards will, as a minimum, be Type B, with a size of 60" x 30".

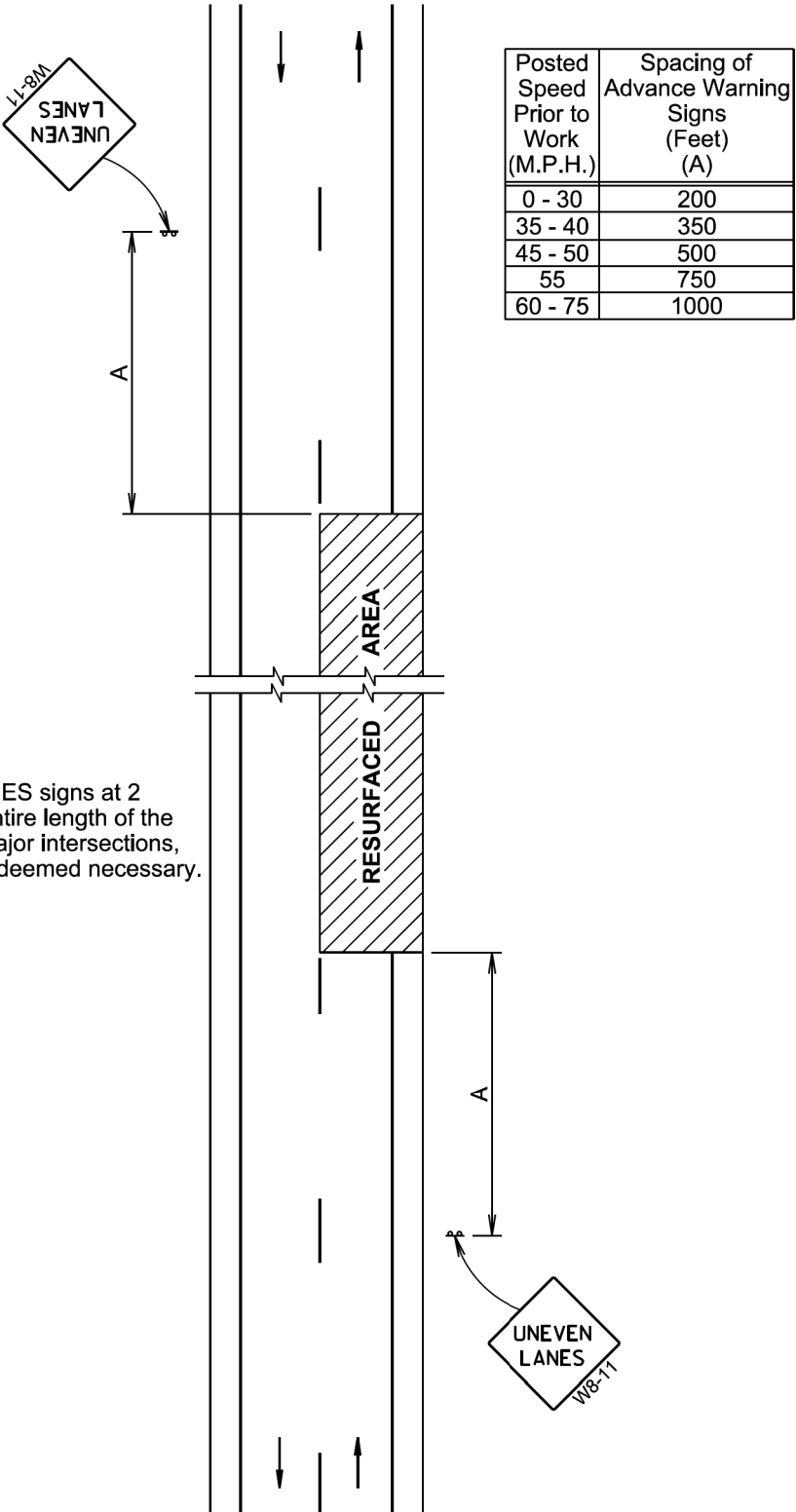
All costs associated with the traffic control for mobile operation including signs, arrow boards and equipment will be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".



January 22, 2021

|                      |                       |                                  |                        |
|----------------------|-----------------------|----------------------------------|------------------------|
| Published Date: 2026 | S<br>D<br>D<br>O<br>T | MOBILE OPERATIONS ON 2-LANE ROAD | PLATE NUMBER<br>634.06 |
|                      |                       |                                  | Sheet 1 of 1           |
|                      |                       |                                  |                        |

Install additional UNEVEN LANES signs at 2 mile intervals throughout the entire length of the uneven area and at affected major intersections, edge of towns, and other sites deemed necessary.



| Posted Speed Prior to Work (M.P.H.) | Spacing of Advance Warning Signs (Feet) (A) |
|-------------------------------------|---------------------------------------------|
| 0 - 30                              | 200                                         |
| 35 - 40                             | 350                                         |
| 45 - 50                             | 500                                         |
| 55                                  | 750                                         |
| 60 - 75                             | 1000                                        |

January 22, 2021

|                      |                       |                     |                        |
|----------------------|-----------------------|---------------------|------------------------|
| Published Date: 2026 | S<br>D<br>D<br>O<br>T | UNEVEN ROAD SURFACE | PLATE NUMBER<br>634.22 |
|                      |                       |                     | Sheet 1 of 1           |
|                      |                       |                     |                        |

| Posted Speed Prior to Work (M.P.H.) | Spacing of Advance Warning Signs (Feet) (A) | Spacing of Channelizing Devices (Feet) (G) |
|-------------------------------------|---------------------------------------------|--------------------------------------------|
| 0 - 30                              | 200                                         | 25                                         |
| 35 - 40                             | 350                                         | 25                                         |
| 45                                  | 500                                         | 25                                         |
| 50                                  | 500                                         | 50                                         |
| 55                                  | 750                                         | 50                                         |
| 60 - 65                             | 1000                                        | 50                                         |

- Flagger
- Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) will be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices will be drums or 42" cones.

Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.

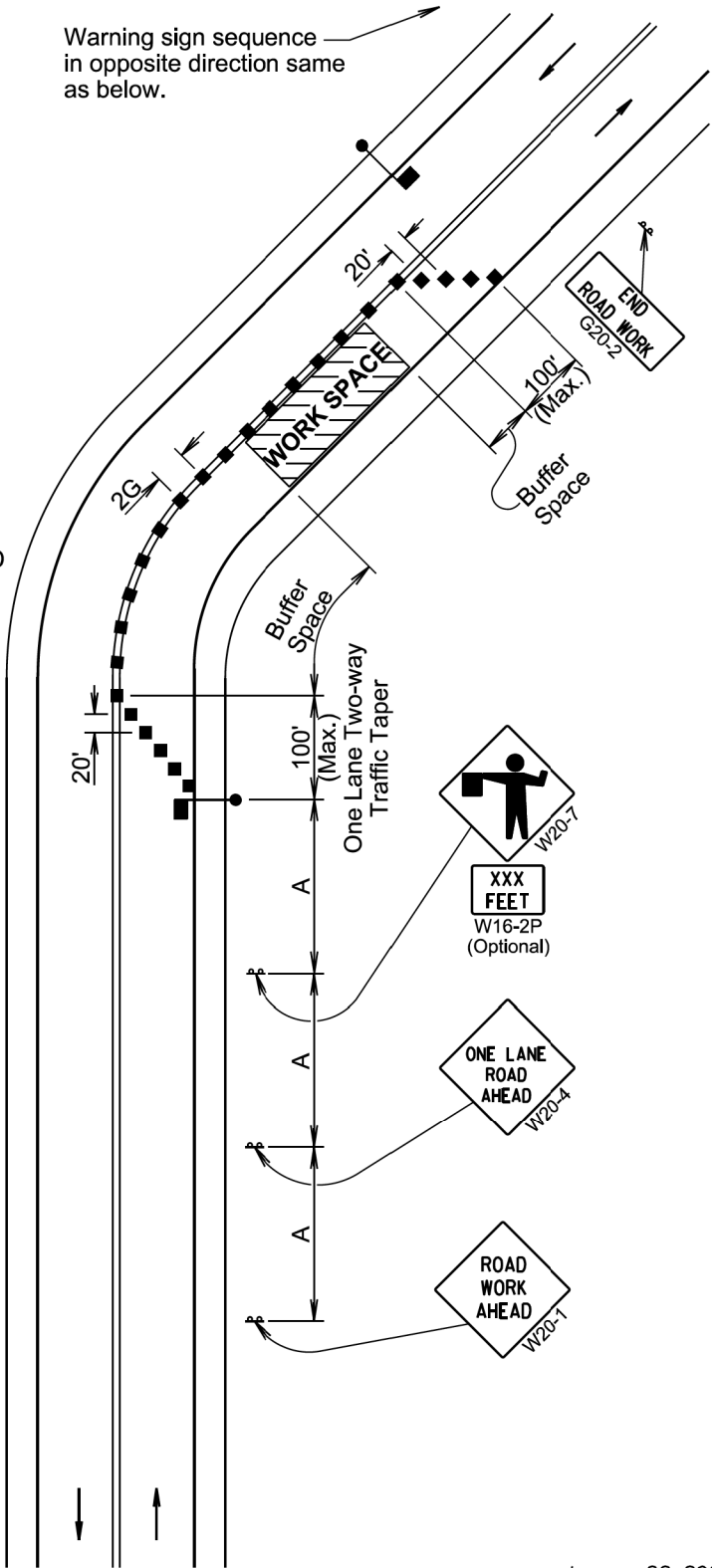
END ROAD WORK G20-2

Channelizing devices and flaggers will be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

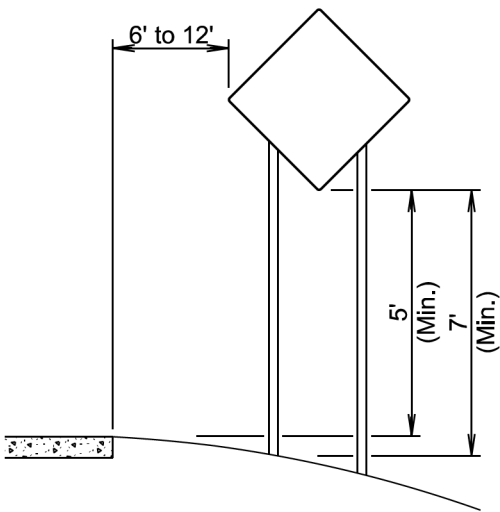
The length of A may be adjusted to fit field conditions.

Warning sign sequence in opposite direction same as below.

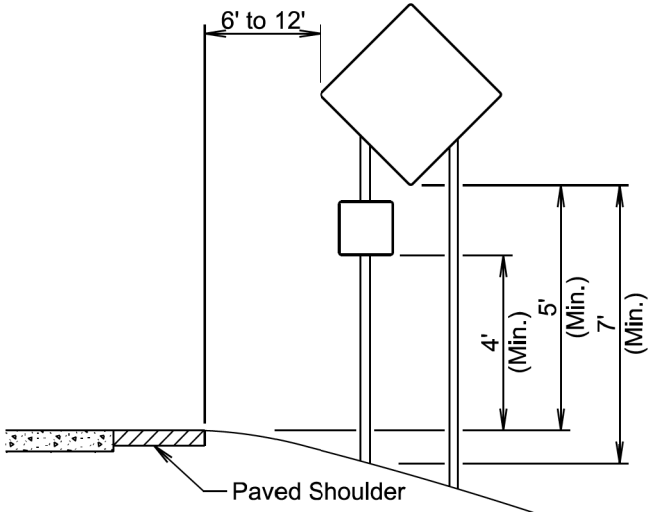


January 22, 2021

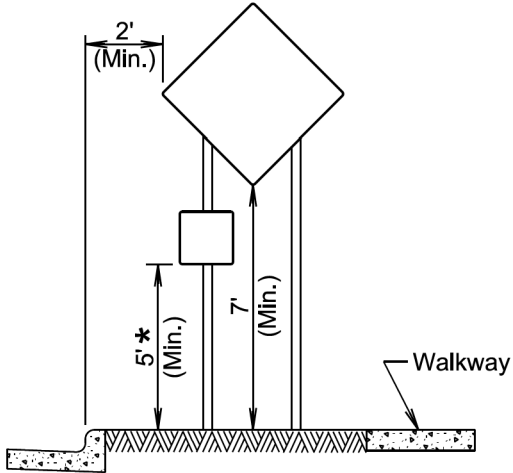
|                      |                       |                                    |              |
|----------------------|-----------------------|------------------------------------|--------------|
| Published Date: 2026 | S<br>D<br>D<br>O<br>T | LANE CLOSURE WITH FLAGGER PROVIDED | PLATE NUMBER |
|                      |                       |                                    | 634.23       |
|                      |                       |                                    | Sheet 1 of 1 |



RURAL DISTRICT

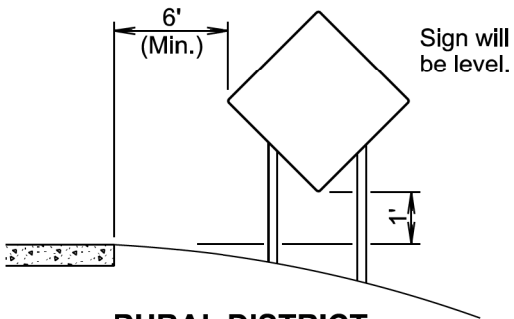


RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT

\* If the bottom of supplemental plate is mounted lower than 7 feet above a pedestrian walkway, the supplemental plate should not project more than 4" into the pedestrian facility.



RURAL DISTRICT 3 DAY MAXIMUM  
(Not applicable to regulatory signs)

January 22, 2021

|                      |                       |                                                             |              |
|----------------------|-----------------------|-------------------------------------------------------------|--------------|
| Published Date: 2026 | S<br>D<br>D<br>O<br>T | CRASHWORTHY SIGN SUPPORTS<br>(Typical Construction Signing) | PLATE NUMBER |
|                      |                       |                                                             | 634.85       |
|                      |                       |                                                             | Sheet 1 of 1 |

