

Revised 4/29/24 LWD

STATE OF SOUTH DAKOTA
 DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED

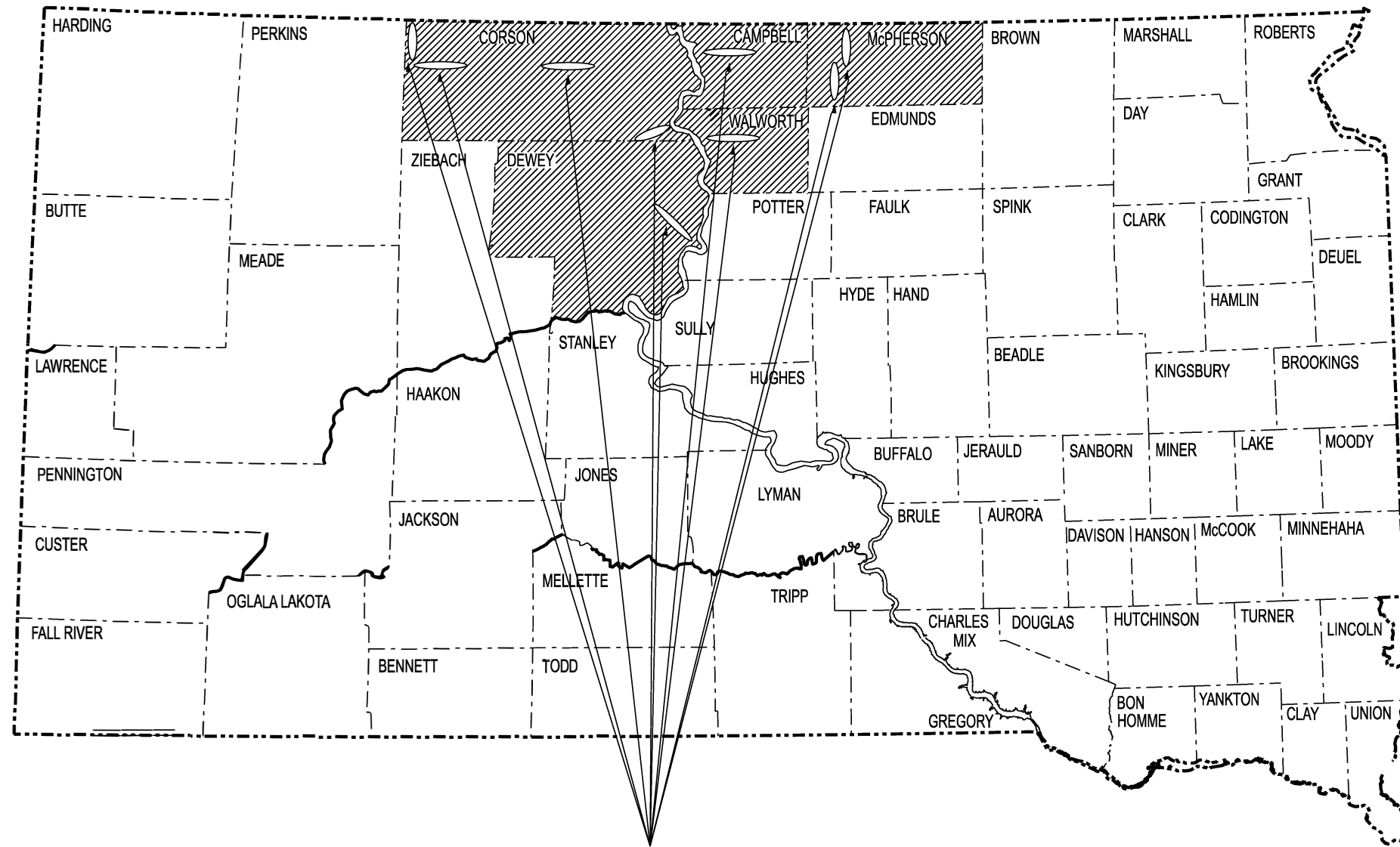
INDEX OF SHEETS

Sheets 1-9	Layout Map & Index of Sheets
Sheets 10-12	Estimate of Quantities & Plan Notes
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Sheets 22-23	Standard Plates

PROJECT NH-P 0032(43)
 US & SD HIGHWAYS 12, 212, 73, 47, 20 & 10
 WALWORTH, DEWEY, CORSON, MCPHERSON & CAMPBELL
 COUNTIES

ASPHALT CONCRETE CRACK SEALING

PCN 096J



STORM WATER PERMIT
 None Required

PROJECTS

9

June 5, 2024

PLOT SCALE - \$SCALE\$

PLOT NAME - \$FILENAME\$

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	2	23

Plotting Date: mm-ddd-yyy

US012 DESIGN DESIGNATION

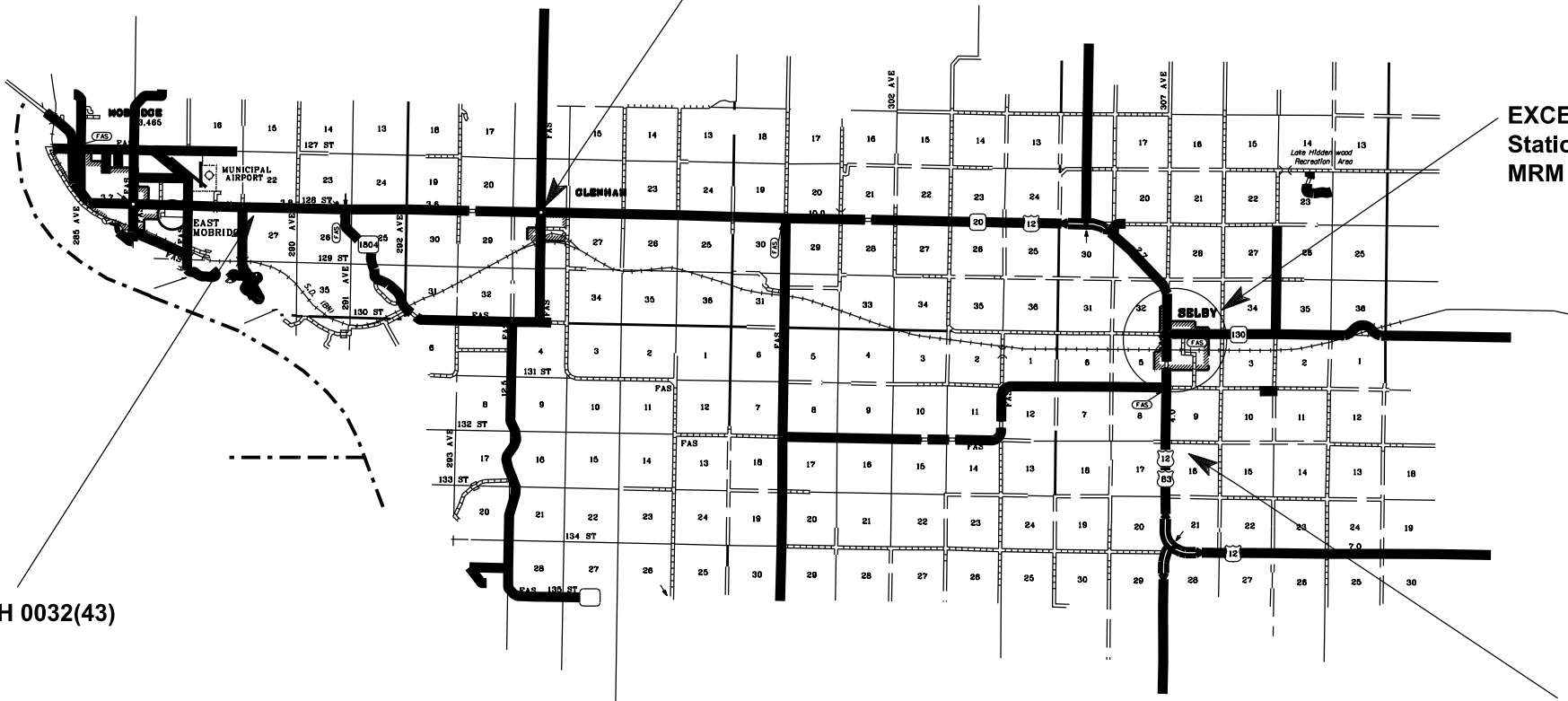
(MRM 190.92 to 212.00)

ADT(2023)	1823
ADT(2043)	2879
DHV	383
D	51%
T DHV	10.2%
T ADT	22.4%
V	65 MPH

**US HIGHWAY 12
WALWORTH COUNTY
LENGTH 22.59 MILES**

**AUTOMATIC TRAFFIC RECORDER PRESENT AT:
Station 380+90
MRM 197.00+0.240**

**EXCEPTION FOR AC SURFACING
Station 1041+63-1108+11
MRM 209.00+0.861-210.47+0.065**



**BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 190.92+0.000**

**END PROJECT NH 0032(43)
Station 1192+59
MRM 212.00+0.613**

STORM WATER PERMIT

None Required

PLOT SCALE - \$\$SCALE\$\$

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

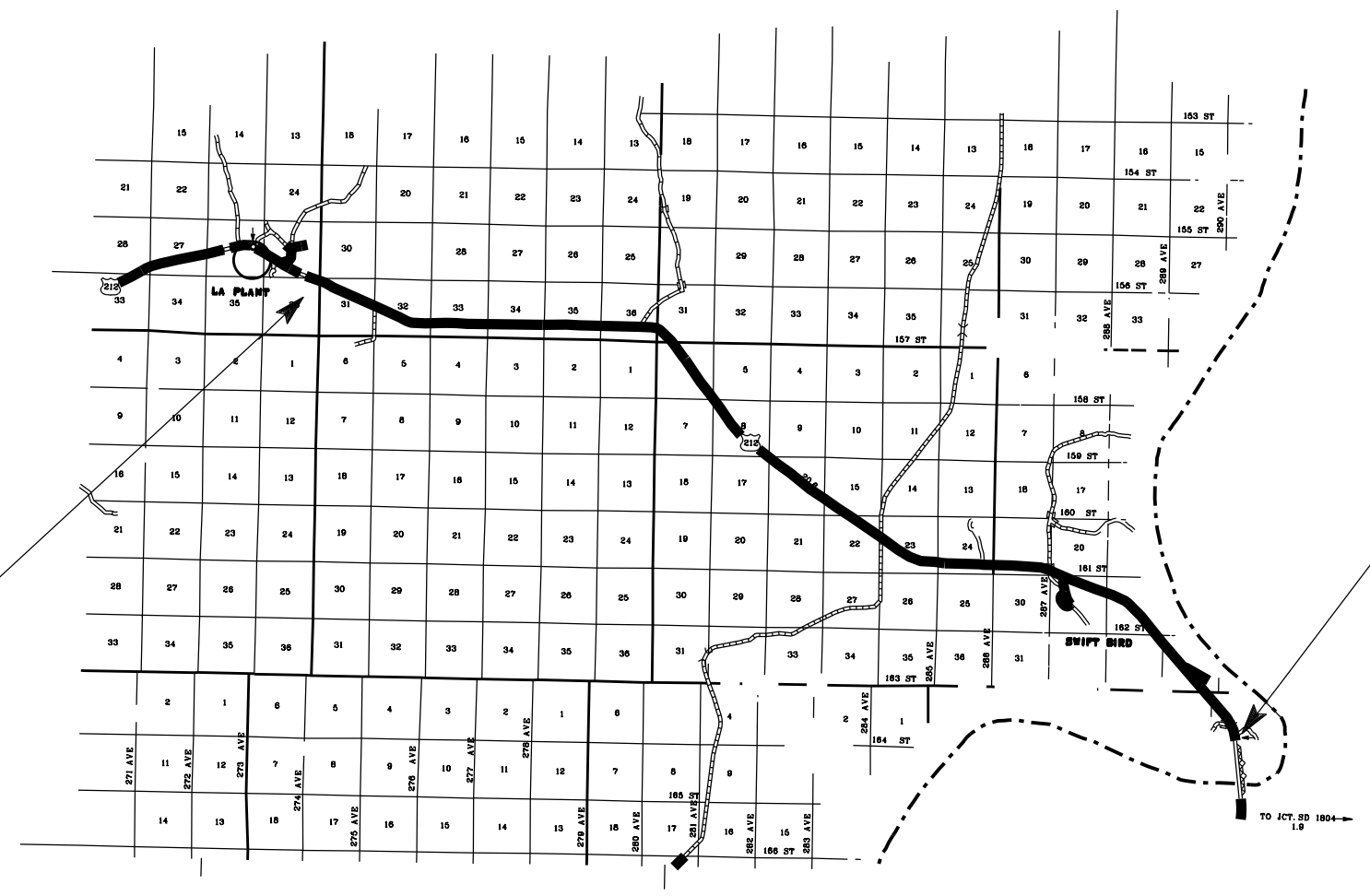
PLOTTED FROM - \$\$USERNAME\$\$

FILE - \$\$FILENAME\$\$

Plotting Date: mmm-ddd-yyy

US212 DESIGN DESIGNATION
(MRM 187.76 to 207.00)
ADT(2023) 634
ADT(2043) 925
DHV 147
D 50%
T DHV 8%
T ADT 17.5%
V 65 MPH

US HIGHWAY 212
DEWEY COUNTY
LENGTH 19.81 MILES



BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 187.76+0.058

END PROJECT NH 0032(43)
Station 1045+75
MRM 207.00+0.671

STORM WATER PERMIT
None Required

PLOTTED FROM - \$\$SCALE\$\$

PLOTTED FROM - \$\$USERNAME\$\$

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

FILE - \$\$FILENAME\$\$

Plotting Date: mmm-ddd-yyy

US012 DESIGN DESIGNATION

(MRM 99.60 to 106.34)

ADT(2023)	532
ADT(2043)	738
DHV	118
D	50%
T DHV	11.7%
T ADT	25.7%
V	65 MPH

SD73 DESIGN DESIGNATION

(MRM 252.25 to 252.97)

ADT(2023)	295
ADT(2043)	385
DHV	61
D	50%
T DHV	10.1%
T ADT	22.1%
V	65 MPH

US HIGHWAY 12
CORSON COUNTY
LENGTH 11.95 MILES

SD HIGHWAY 73
CORSON COUNTY
0.67 MILES



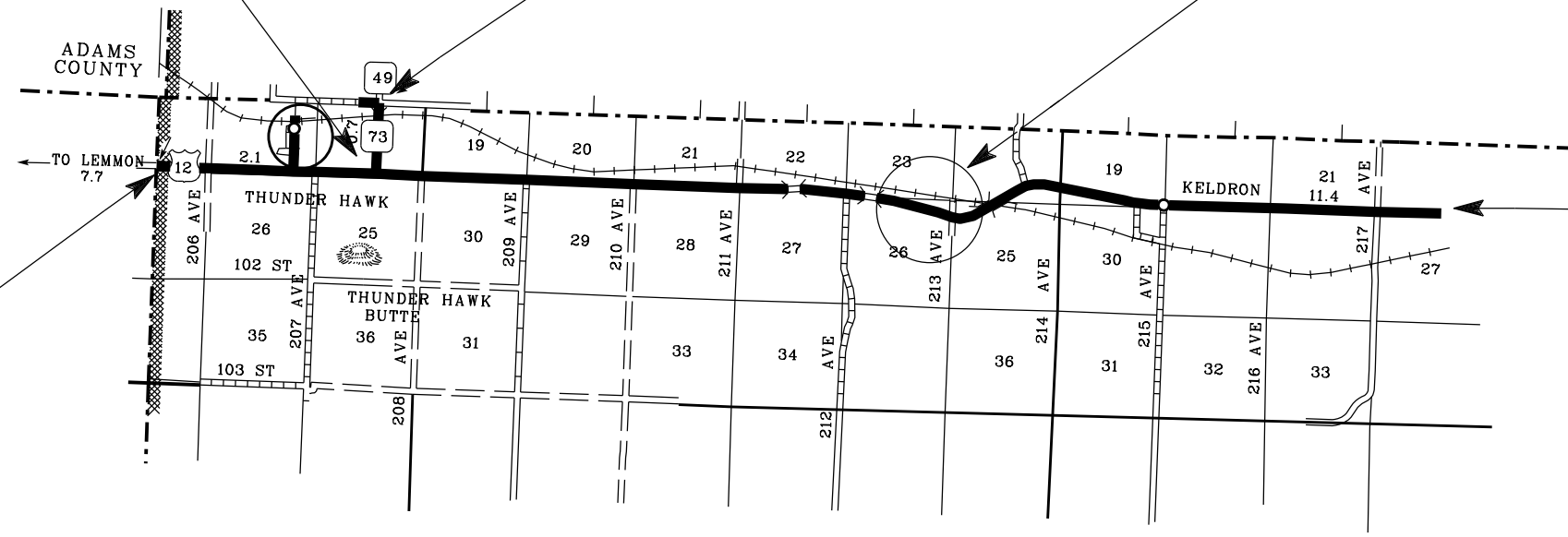
BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 252.25+0.000

END PROJECT NH 0032(43)
Station 35+59
MRM 252.97+0.000

EXCEPTION FOR AC SURFACING
Station 357+77-419+81
MRM 106.34+0.645 - 108.00+0.160

END PROJECT NH 0032(43)
Station 631+01
MRM 112.00+0.714

BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 99.60+0.000



STORM WATER PERMIT

None Required

PLOT SCALE - \$\$\$SCALE\$\$

PLOTTED FROM - \$\$\$USERNAME\$\$\$

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

FILE - \$\$\$FILENAME\$\$\$

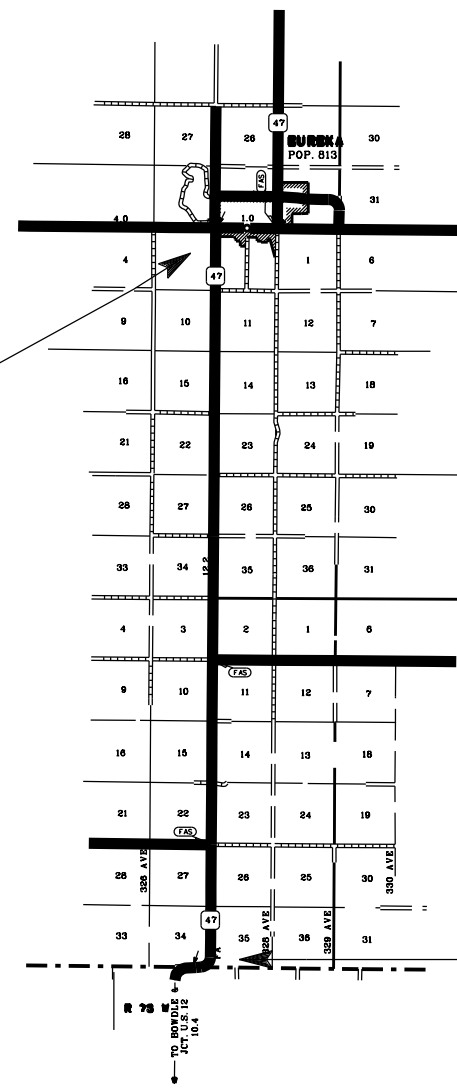
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	5	23

Plotting Date: mmm-ddd-yyy

SD47 DESIGN DESIGNATION
(MRM 235.14 to 247.27)

ADT(2023)	285
ADT(2043)	385
DHV	51
D	51%
T DHV	13.2%
T ADT	29.0%
V	65 MPH

SD HIGHWAY 47
MCPHERSON COUNTY
LENGTH 12.19 MILES



END PROJECT NH 0032(43)
Station 643+79
MRM 247.27+0.000

BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 235.14+0.000

STORM WATER PERMIT
None Required

PLOT SCALE - \$\$\$CALE\$\$\$

PLOTTED FROM - \$\$\$USERNAME\$\$\$

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

FILE - \$\$\$FILENAME\$\$\$

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	6	23

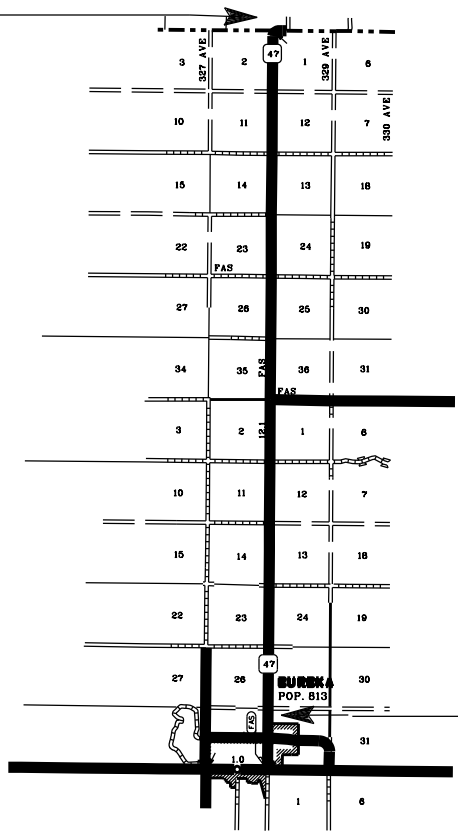
Plotting Date: mm-dd-yyy

SD 47 DESIGN DESIGNATION

(MRM 248.28 to 260.38)
 ADT(2023) 105
 ADT(2043) 144
 DHV 19
 D 51%
 T DHV 7.7%
 T ADT 16.9%
 V 55 MPH

SD HIGHWAY 47
 MCPHERSON COUNTY
 LENGTH 12.09 MILES

END PROJECT NH 0032(43)
 Station 638+35
 MRM 260.38+0.000



BEGIN PROJECT NH 0032(43)
 Station 0+00
 MRM 248.28+0.000



STORM WATER PERMIT

None Required

PLOT SCALE - \$SCALE\$\$

PLOTTED FROM - \$USERNAME\$\$

PLOT NAME - \$PLOTNAME\$\$

FILE - \$FILENAME\$\$

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	7	23

Plotting Date: mmm-ddd-yyy

SD 020 DESIGN DESIGNATION

(MRM 181.00 to 193.61)
 ADT(2023) 696
 ADT(2043) 1015
 DHV 123
 D 50%
 T DHV 6.6%
 T ADT 14.4%
 V 65 MPH

**SD HIGHWAY 20
 CORSON COUNTY
 LENGTH 10.99 MILES**



**END PROJECT NH 0032(43)
 Station 580+27
 MRM 193.61+0.000**

**AUTOMATIC TRAFFIC RECORDER PRESENT AT:
 Station 292+51
 MRM 188.00+0.160**

**BEGIN PROJECT NH 0032(43)
 Station 0+00
 MRM 181.00+0.204**

STORM WATER PERMIT

None Required

PLOT SCALE - \$\$SCALE\$\$

PLOTTED FROM - \$\$USERNAME\$\$

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

FILE - \$\$FILENAME\$\$

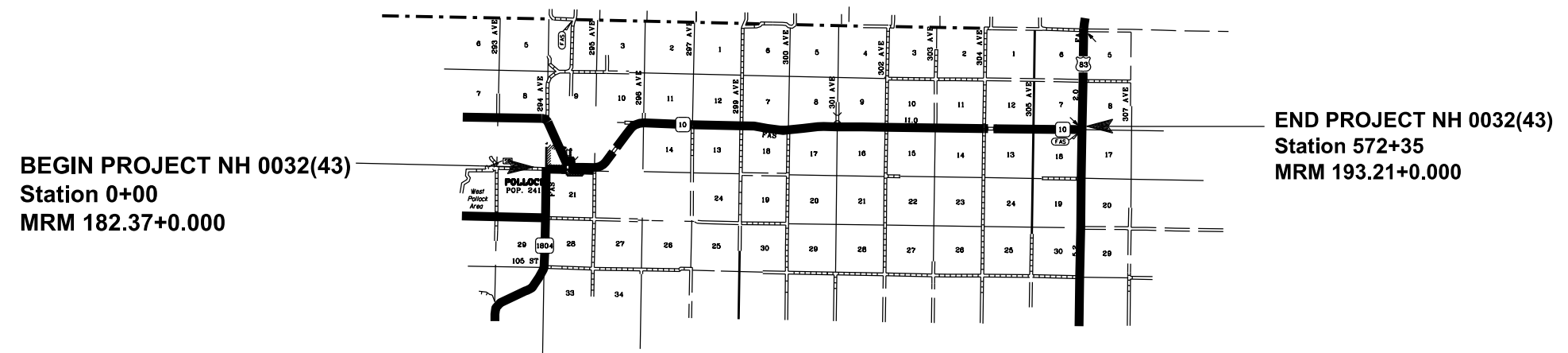
STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	8	23

Plotting Date: mmm-ddd-yyy

SD 010 DESIGN DESIGNATION

(MRM 182.63 to 193.21)
 ADT(2023) 404
 ADT(2043) 492
 DHV 65
 D 51%
 T DHV 6.2%
 T ADT 25.5%
 V 65 MPH

SD HIGHWAY 10
 CAMPBELL COUNTY
 LENGTH 10.84 MILES



STORM WATER PERMIT

None Required

PLOT SCALE - \$\$\$SCALE\$\$\$

PLOTTED FROM - \$\$\$USERNAME\$\$\$

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

FILE - \$\$\$FILENAME\$\$\$

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	NH-P 0032(43)	9	23

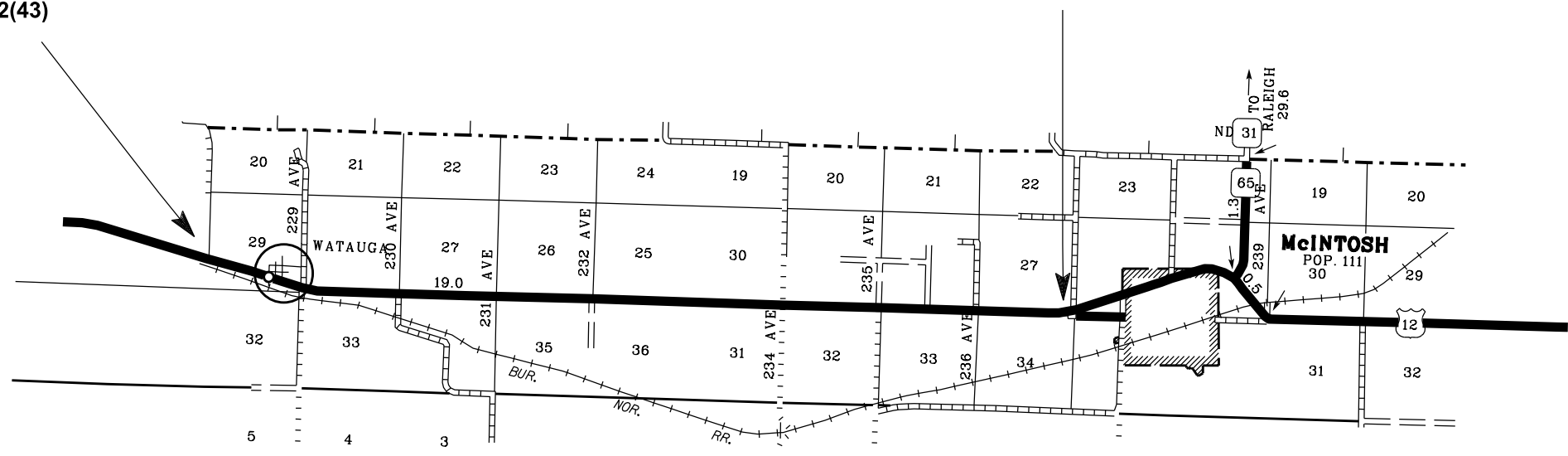
Plotting Date: mmm-ddd-yyy

US012 DESIGN DESIGNATION
(MRM 121.00 to 130.00)
ADT(2023) 436
ADT(2043) 569
DHV 91
D 50%
T DHV 12.3%
T ADT 27.1%
V 65 MPH

**US HIGHWAY 12
CORSON COUNTY
LENGTH 8.81 MILES**

BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 121.36+0.408

END PROJECT P 0032(43)
Station 465+12
MRM 130.00+0.750



STORM WATER PERMIT
None Required

PLOT SCALE - \$\$\$CALE\$\$

PLOTTED FROM - \$\$\$USERNAME\$\$\$

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

FILE - \$\$\$FILENAME\$\$\$

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
350E0010	Asphalt Concrete Crack Sealing	420,130	Lb
634E0010	Flagging	960.0	Hour
634E0020	Pilot Car	480.0	Hour
634E0110	Traffic Control Signs	2,740.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS

SPECIFICATIONS

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

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.

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 B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT B4: BALD EAGLE

Bald eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

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: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

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 in 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.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES (CONT.)

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 within 100 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility 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.

TRAFFIC RECORDER

The SDDOT Office of Inventory Management & Research has two permanent traffic recorders located on US12, MRM 197.00+0.240 and SD, 20 MRM 188.00+0.160.

The Contractor will not damage the existing loops, pull boxes, conduit, or electronics cabinet. Any pull boxes, conduit, cabinet or loops damaged during the project will be replaced by the Contractor at no expense to the Department. The loops are visible on the roadway; if necessary, SDDOT Office of Inventory Management and Research will aid in locating the loops. Contact (605)773-6644 or (605)773-3278 to notify the office of a request to locate the ATR.

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.

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

GENERAL TRAFFIC CONTROL – CONT.

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.

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.

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".

TRAFFIC CONTROL SIGNS

Traffic control signs have been included in a table for each route.

Payment will be only for those signs used on each route.

ITEMIZED LISTS FOR TRAFFIC CONTROL SIGNS

(1) HWY 12 WALWORTH

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT ___ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(2) HWY 212 DEWEY

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT ___ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(3) HWY 12 CORSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT ___ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(4) HWY 12 CORSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT ___ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(5) HWY 73 CORSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(6) HWY 47 S MCPHERSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(7) HWY 47 N MCPHERSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(8) HWY 20 CORSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(9) HWY 10 CAMPBELL

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

(10) HWY 12 CORSON

SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
SPECIAL	STOP FOLLOW PILOT CAR WHEN GOING YOUR WAY	10	48" x 36"	12.0	120.0
G20-1	ROAD WORK NEXT __ MILES	10	36" x 18"	4.5	45.0
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0
CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT					274.0

BLOCKING MEDIUM MATERIAL

All costs for furnishing and placing the blocking material medium will be incidental to the contract unit price per pound for Asphalt Concrete Crack Sealing.

BLOTTING MATERIAL

Blotting material shall be placed over the sealant material immediately following placement of sealant on all cracks.

ESTIMATED CRACK SEALING

All work shall meet the construction requirements detailed in Section 350. The actual quantity used in the field will be the basis for Contractor payment, with no adjustment in contract unit price allowed.

All work will be performed in accordance with the "Typical Reservoir Section" as detailed on page 21.

Longitudinal centerline and longitudinal lane cracks will be routed so that there is **no** over band present at the crack surface.

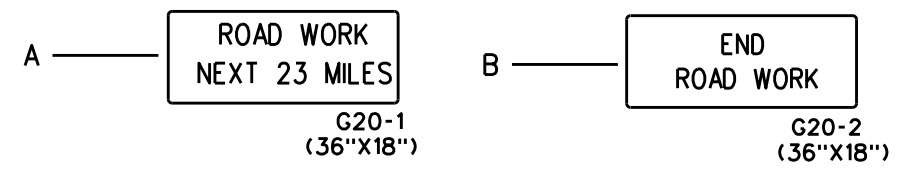
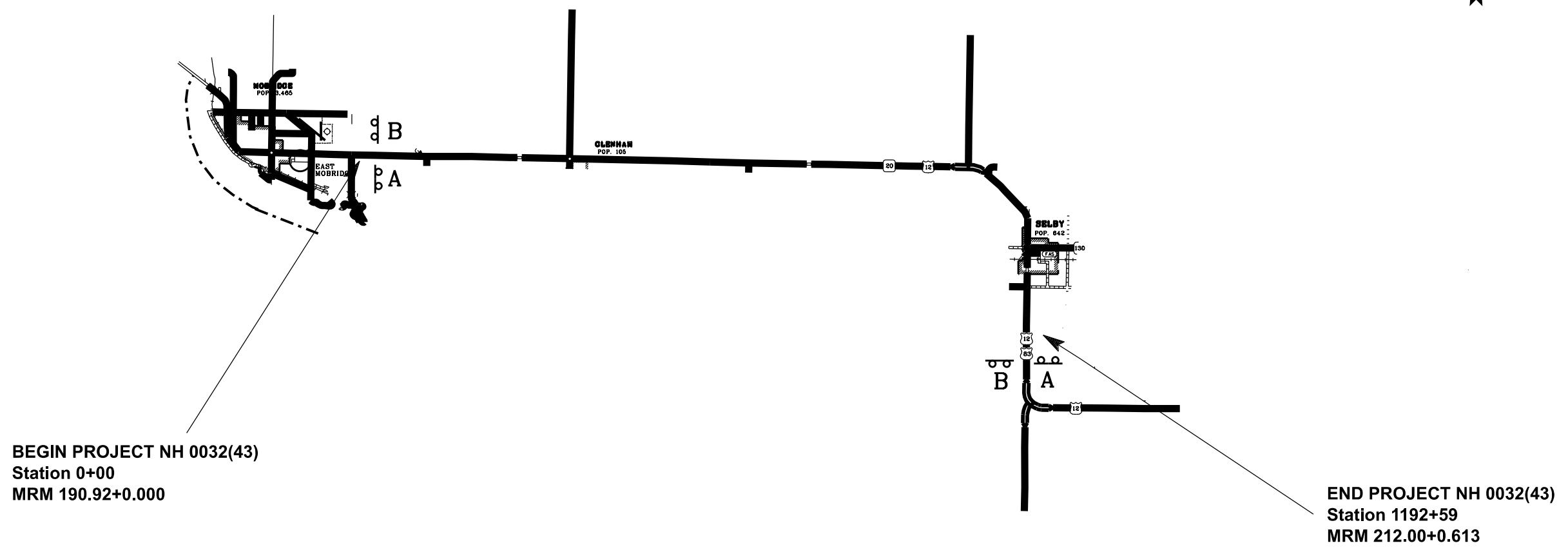
Transverse cracks will be routed so that there is a **minimal** amount of over band present at the crack surface.

ROUTE	MRM TO MRM	COUNTY	APPROX. CRACK SEALANT (LBS)
(1) HWY 12	190.92+0.000 to 212.00+0.613	Walworth	121,103
(2) HWY 212	187.76+0.058 to 207.00+0.671	Dewey	36,494
(3) HWY 12	99.60+0.000 to 106.34+0.648	Corson	25,326
(4) HWY 12	108.00+0.116 to 112+0.714	Corson	12,740
(5) HWY 73	252.25+0.000 to 252.97+0.000	Corson	383
(6) HWY 47 S	235.14+0.00 to 247.27+0.000	Mcpherson	77,628
(7) HWY 47 N	248.28+0.00 to 260.38+0.000	Mcpherson	18,028
(8) HWY 20	181.00+0.204 to 193.61+0.000	Corson	61,730
(9) Hwy 10	182.37+0.000 to 193.21+0.000	Campbell	27,060
(10) Hwy 12	121.36+0.408 to 130.00+0.750	Corson	39,638
TOTALS:			420,130 lbs

FIXED LOCATION SIGN LAYOUT

US HIGHWAY 12

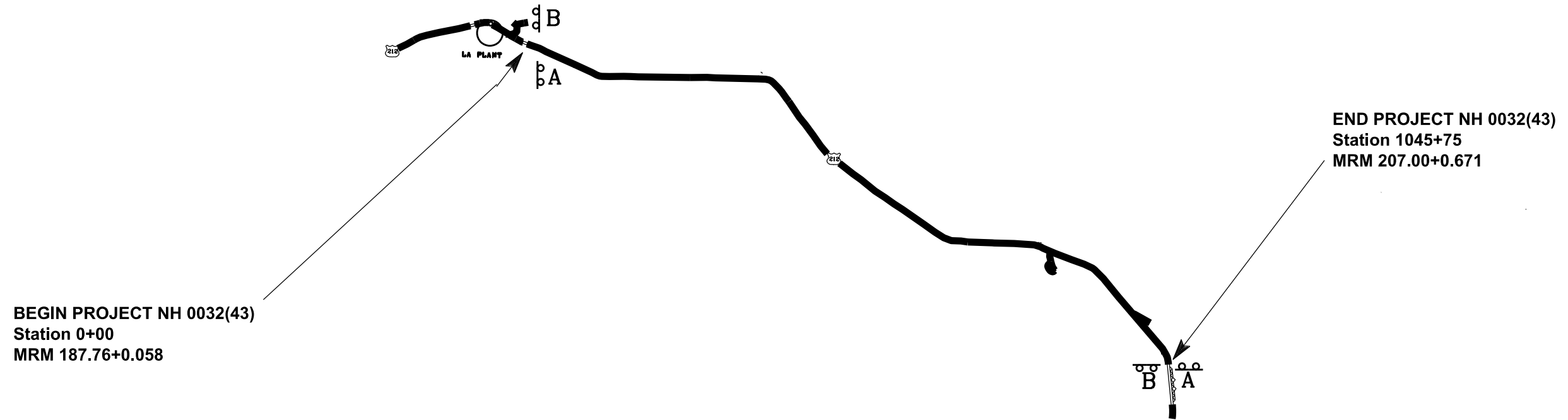
Plotting Date: mmm-ddd-yyy _____



Notes:
Sign locations will be verified in the field by the Engineer prior to installation.

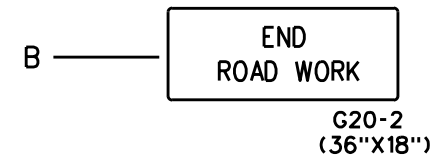
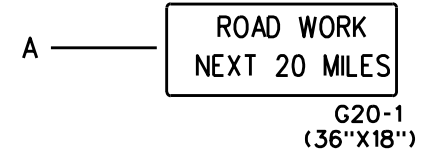
FIXED LOCATION SIGN LAYOUT

US HIGHWAY 212



BEGIN PROJECT NH 0032(43)
 Station 0+00
 MRM 187.76+0.058

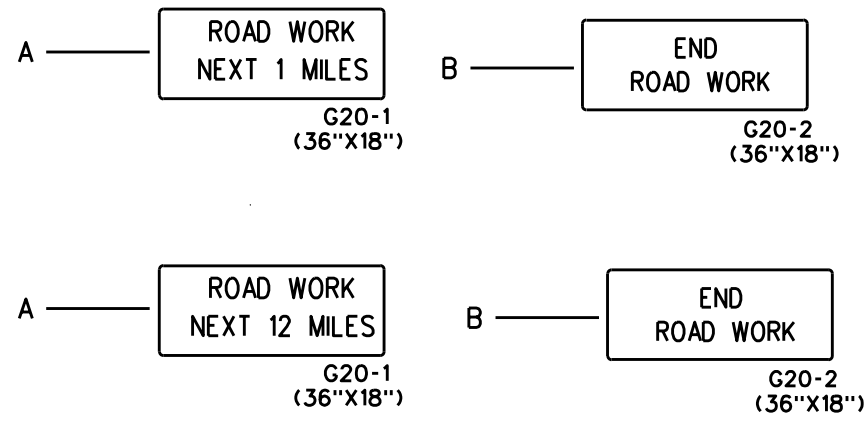
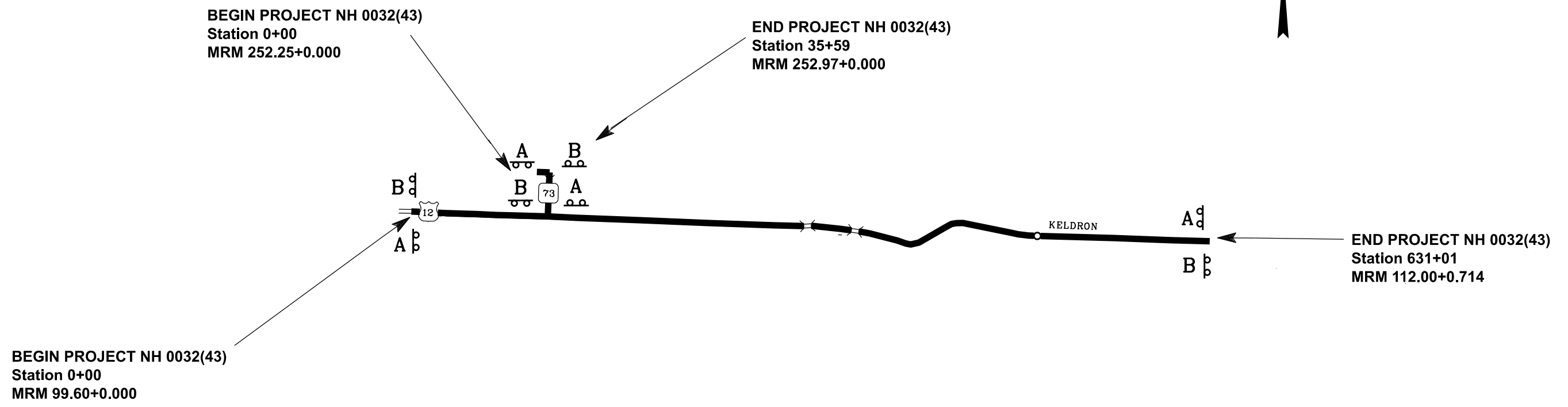
END PROJECT NH 0032(43)
 Station 1045+75
 MRM 207.00+0.671



Notes:
 Sign locations will be verified in the field by the
 Engineer prior to installation.

FIXED LOCATION SIGN LAYOUT

US HIGHWAY 12 & SD HIGHWAY 73

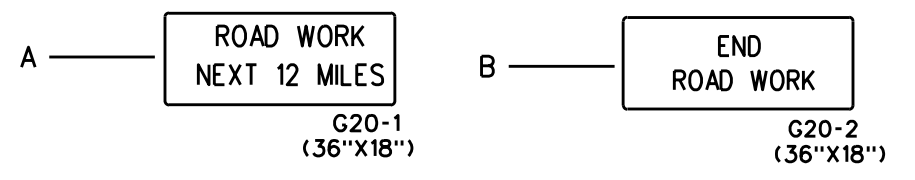
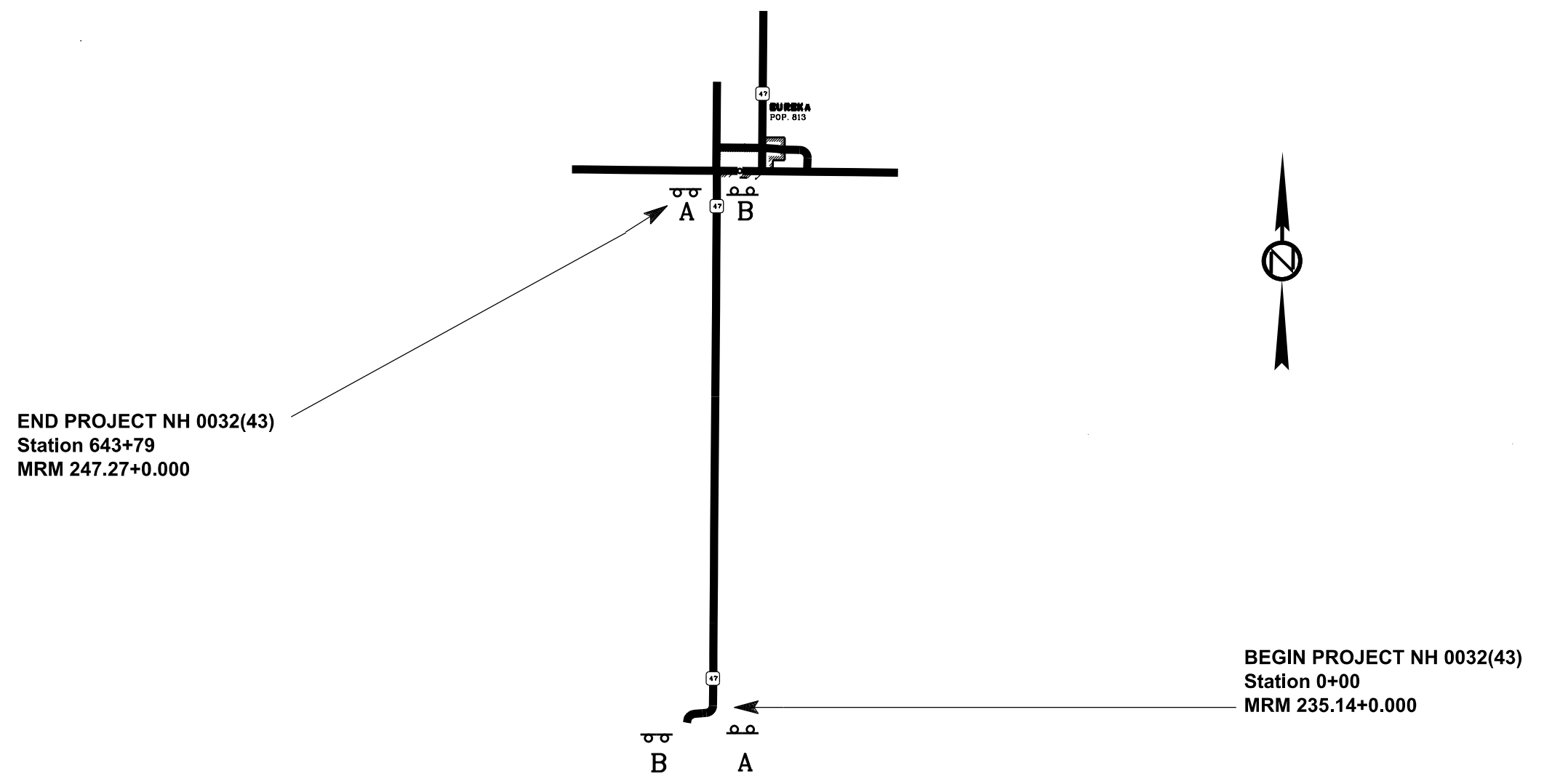


Notes:
Sign locations will be verified in the field by the Engineer prior to installation.

FIXED LOCATION SIGN LAYOUT

SD HIGHWAY 47

Plotting Date: mmm-ddd-yyy _____

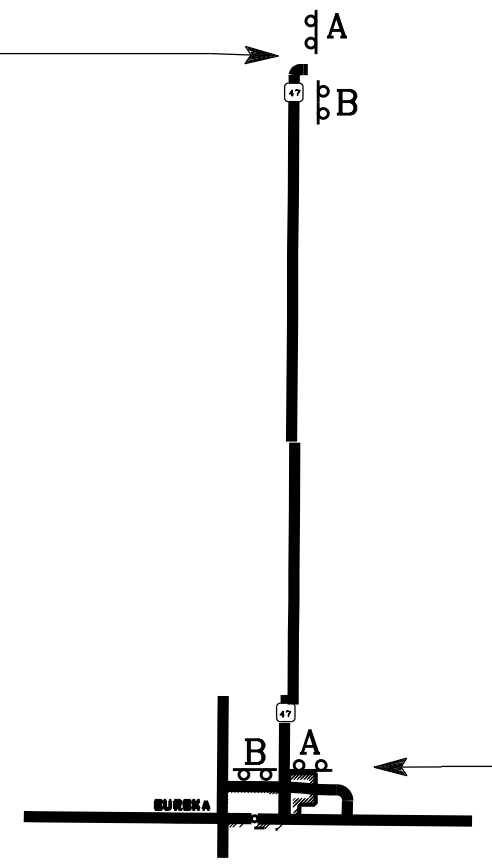


Notes:
Sign locations will be verified in the field by the Engineer prior to installation.

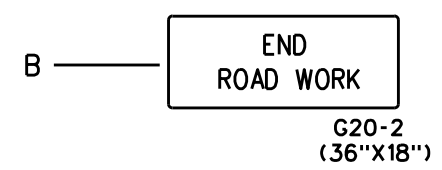
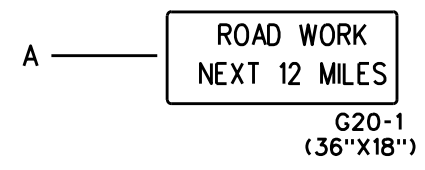
FIXED LOCATION SIGN LAYOUT

SD HIGHWAY 47

END PROJECT NH 0032(43)
Station 638+35
MRM 260.38+0.000



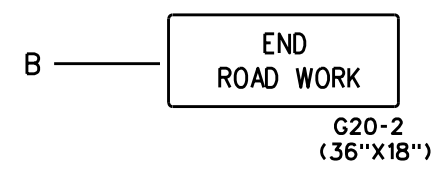
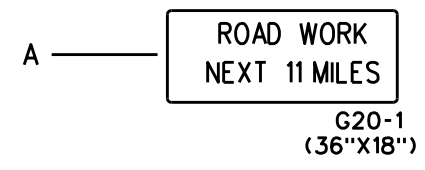
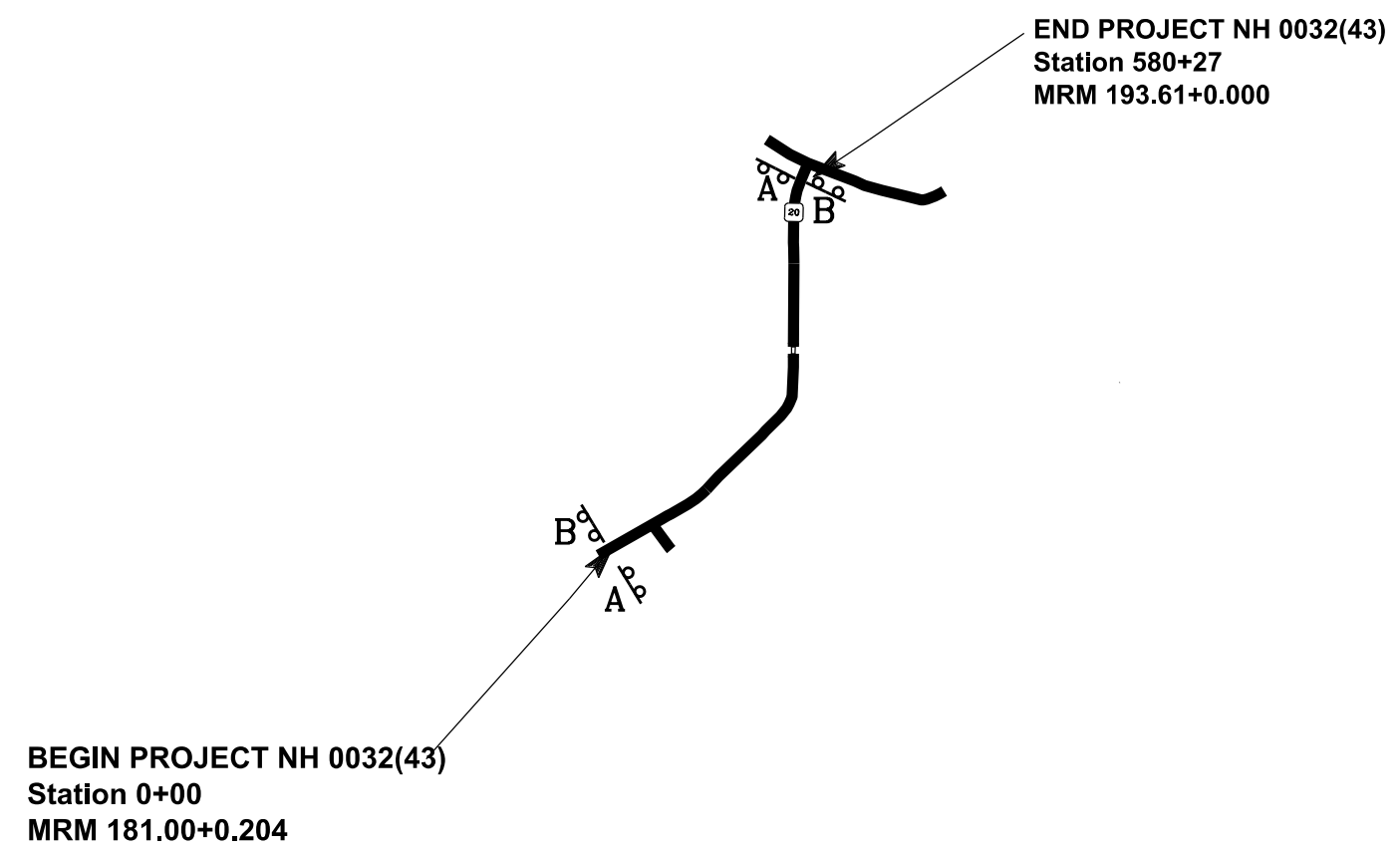
BEGIN PROJECT NH 0032(43)
Station 0+00
MRM 248.28+0.000



Notes:
Sign locations will be verified in the field by the
Engineer prior to installation.

FIXED LOCATION SIGN LAYOUT

SD HIGHWAY 20



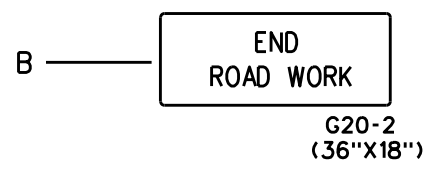
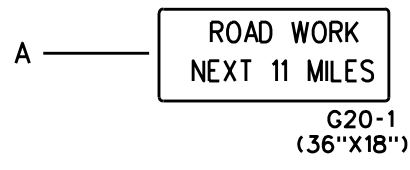
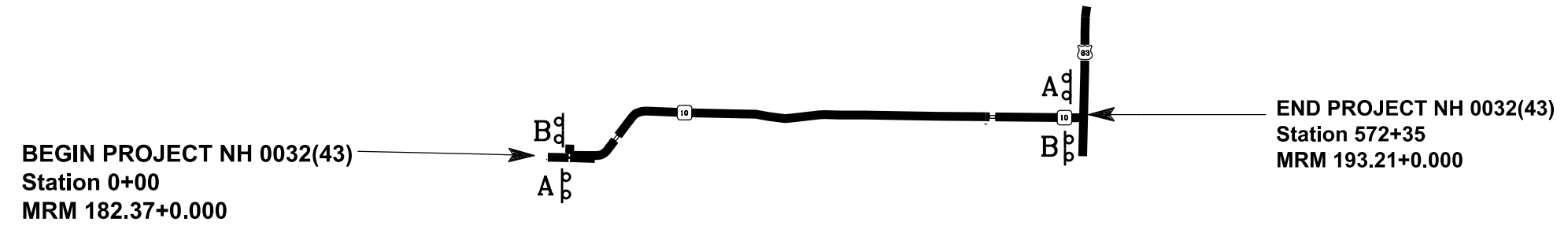
Notes:
Sign locations will be verified in the field by the
Engineer prior to installation.

FIXED LOCATION SIGN LAYOUT

SD HIGHWAY 10

STATE OF SOUTH DAKOTA	PROJECT NH-P 0032(43)	SHEET 19	TOTAL SHEETS 23
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Plotting Date: mmm-ddd-yyy _____



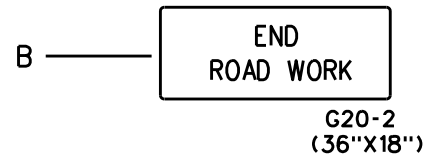
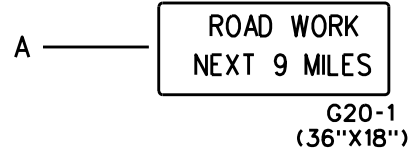
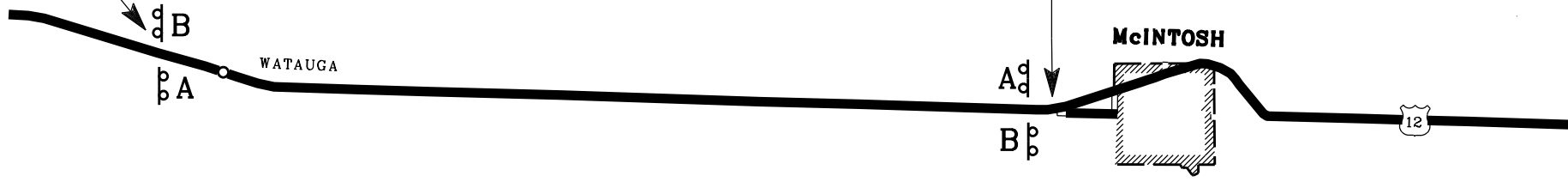
Notes:
Sign locations will be verified in the field by the Engineer prior to installation.

FIXED LOCATION SIGN LAYOUT

US HIGHWAY 12

BEGIN PROJECT NH 0032(43)
 Station 0+00
 MRM 121.36+0.408

END PROJECT P 0032(43)
 Station 465+12
 MRM 130.00+0.750

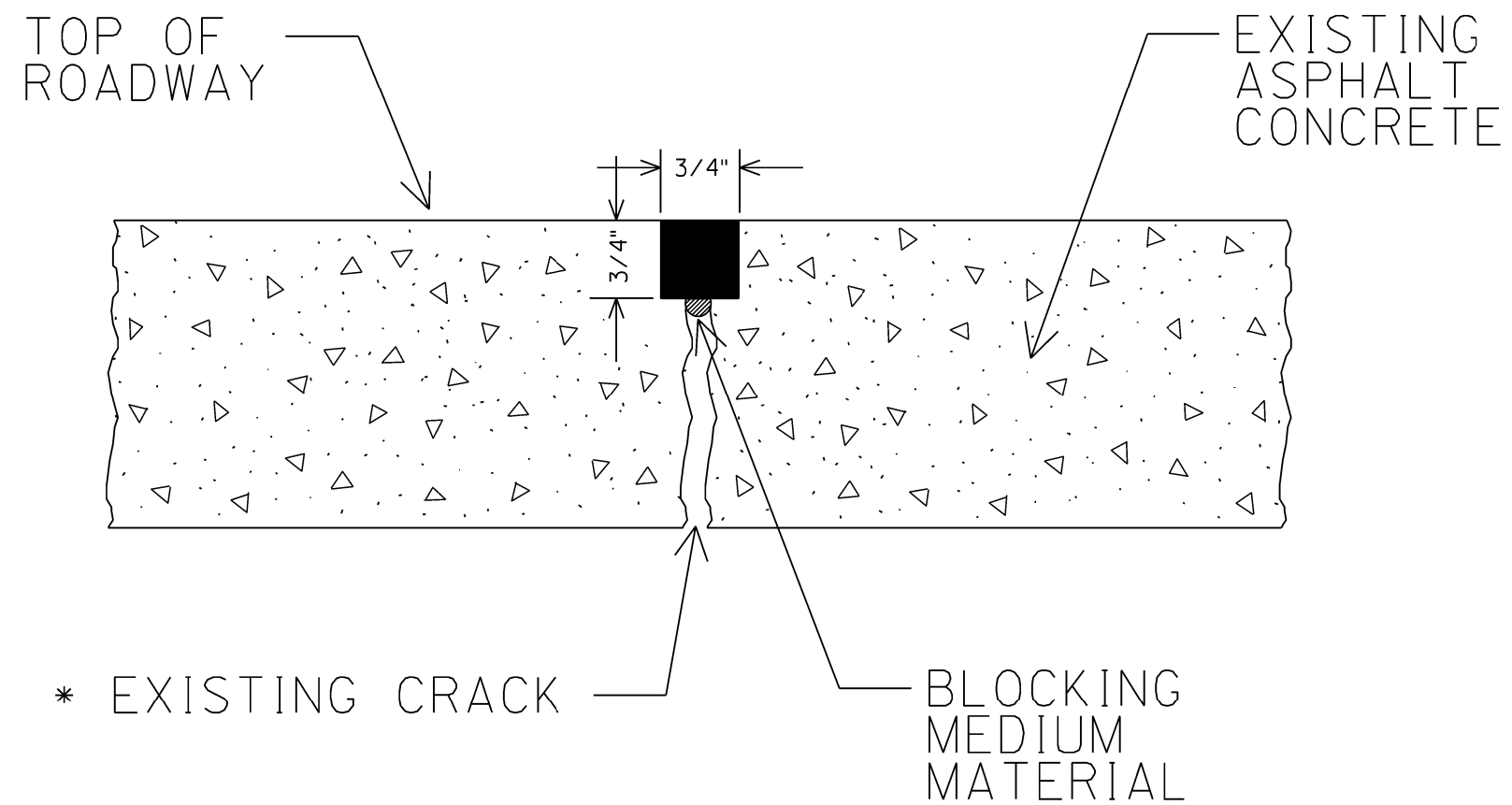


Notes:
 Sign locations will be verified in the field by the
 Engineer prior to installation.

STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
S.D.	NH-P 0032(43)	21	23

Plotting Date: 04/12/2024

TYPICAL RESERVOIR SECTION



* The blocking medium material will be used in cracks that are $3/8"$ or more in width.

PLOT SCALE - 1:16171.7

PLOTTED FROM - TRPR25289

PLOT NAME - 1

FILE - ... \096J-CRACKSEAL-SECT.DGN

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.

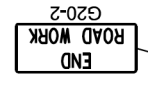
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

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.

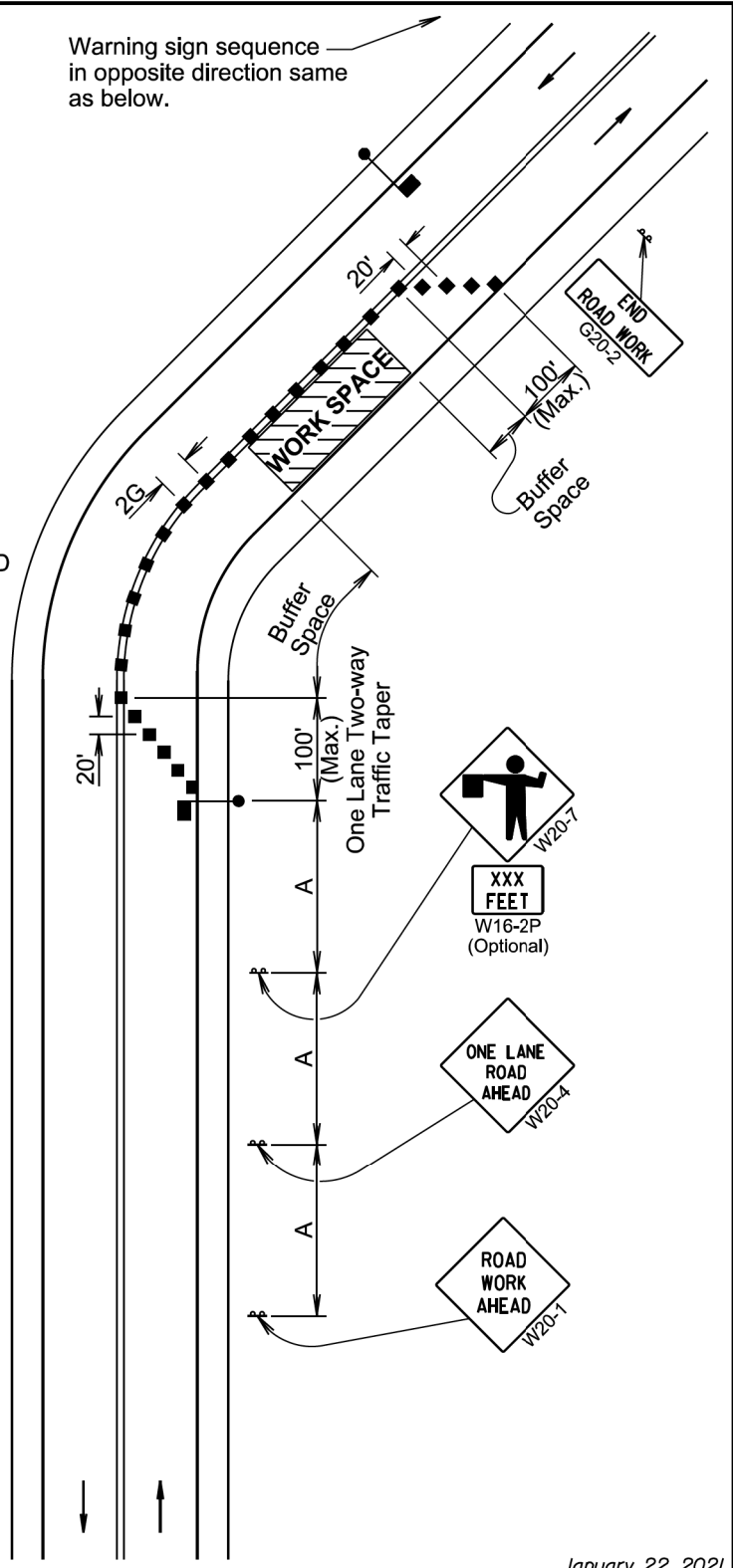


Channelizing devices and flaggers will be used at intersecting roads to control intersecting road traffic as required.

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.

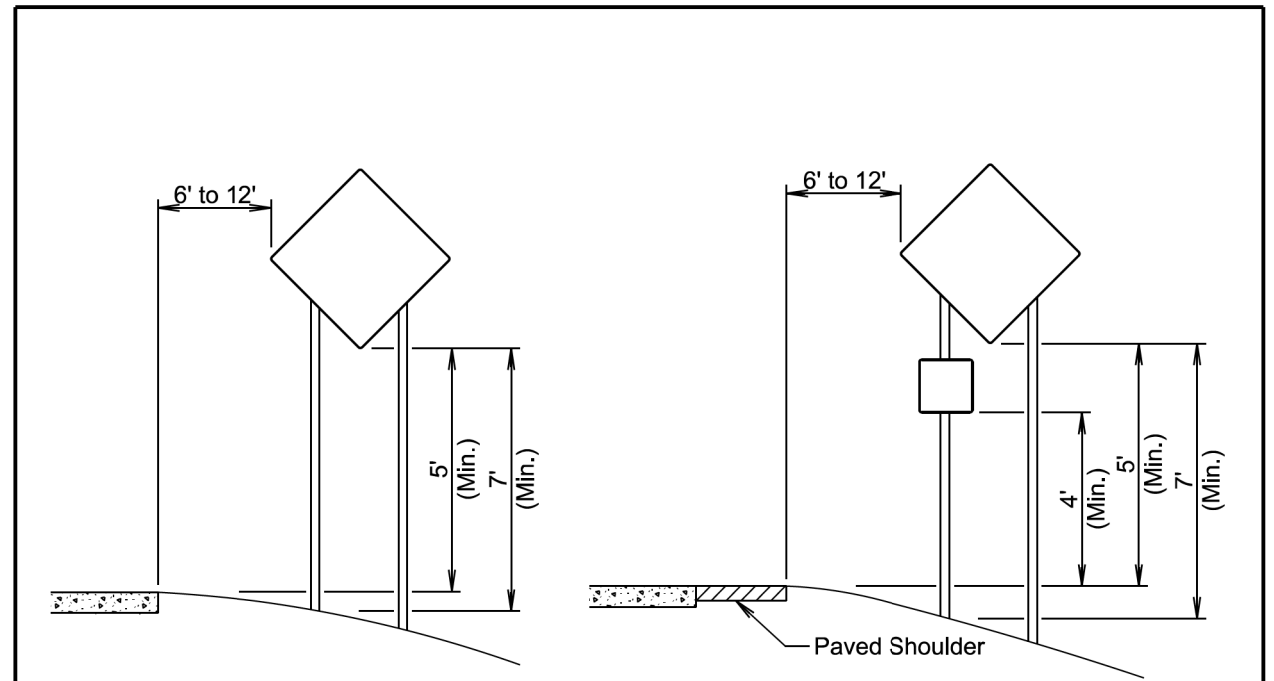
Warning sign sequence in opposite direction same as below.



January 22, 2021

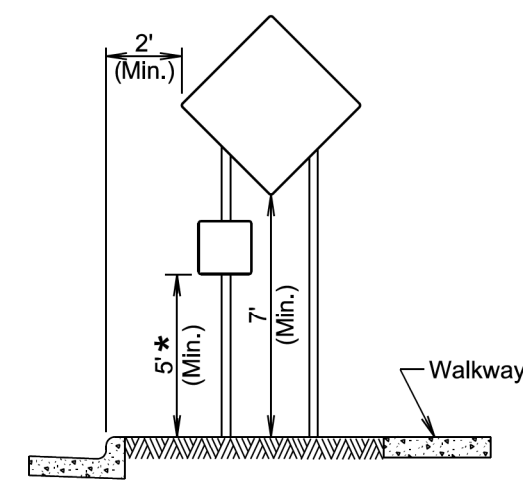
S D D O T	LANE CLOSURE WITH FLAGGER PROVIDED	PLATE NUMBER 634.23
		Sheet 1 of 1

Published Date: 2024

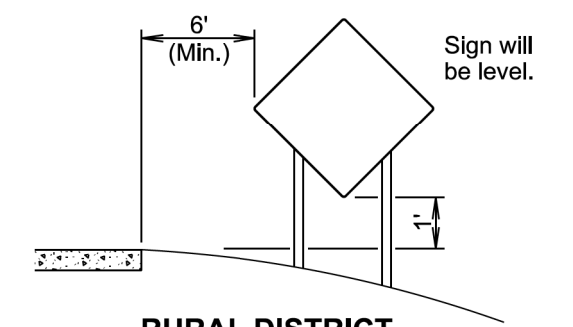


RURAL DISTRICT

RURAL DISTRICT WITH SUPPLEMENTAL PLATE



URBAN DISTRICT



RURAL DISTRICT 3 DAY MAXIMUM

(Not applicable to regulatory signs)

* 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.

January 22, 2021

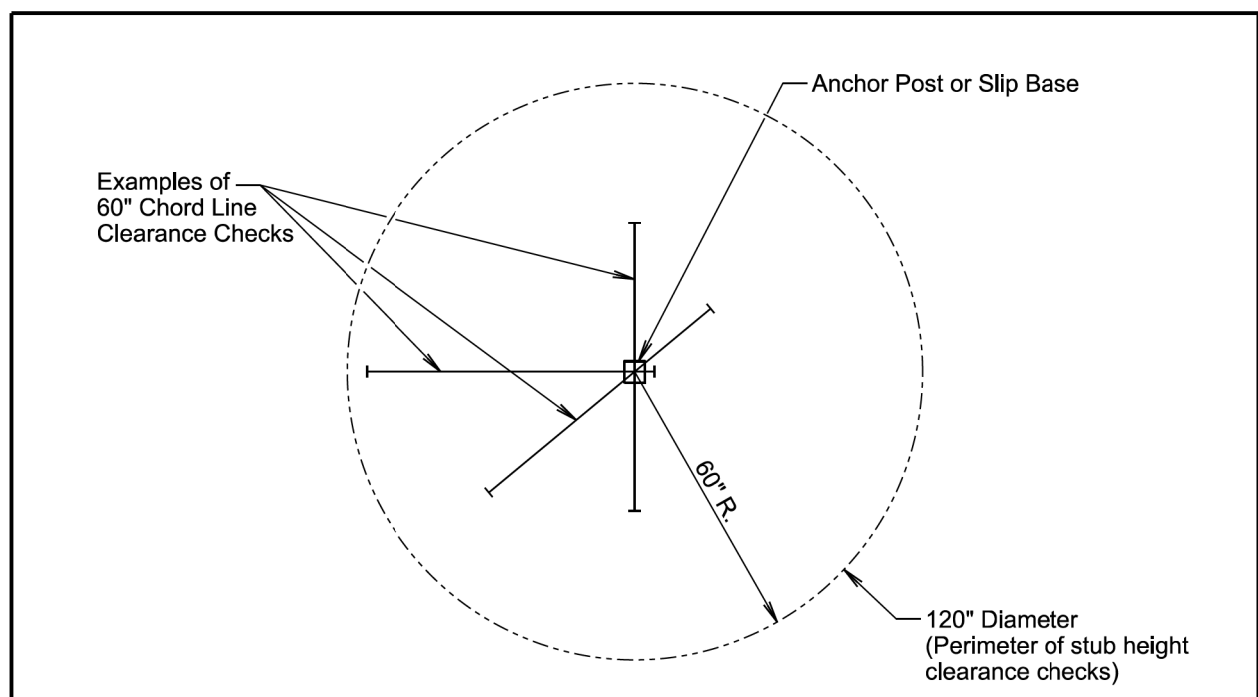
S D D O T	CRASHWORTHY SIGN SUPPORTS (Typical Construction Signing)	PLATE NUMBER 634.85
		Sheet 1 of 1

Published Date: 2024

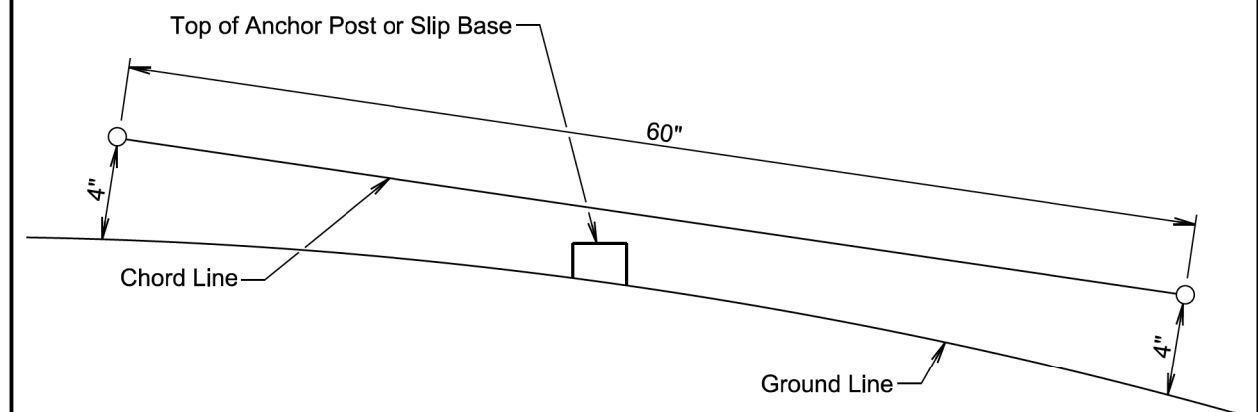
PLOT SCALE - 1:200

PLOT NAME - 1

FILE - ... \WALW096\096K STDPLATES.DGN



PLAN VIEW
(Examples of stub height clearance checks)



ELEVATION VIEW

GENERAL NOTES:

The top of anchor posts and slip bases WILL NOT extend above a 60" chord line within a 120" diameter circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

<i>Published Date: 2024</i>	S D D O T	BREAKAWAY SUPPORT STUB CLEARANCE	PLATE NUMBER 634.99
			Sheet 1 of 1