

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION

| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
|-----------------------|------------------------------|-------|--------------|
| | IM-P 0020(158) & NH 0023(46) | 1 | 20 |

Plotting Date: 11/18/2015

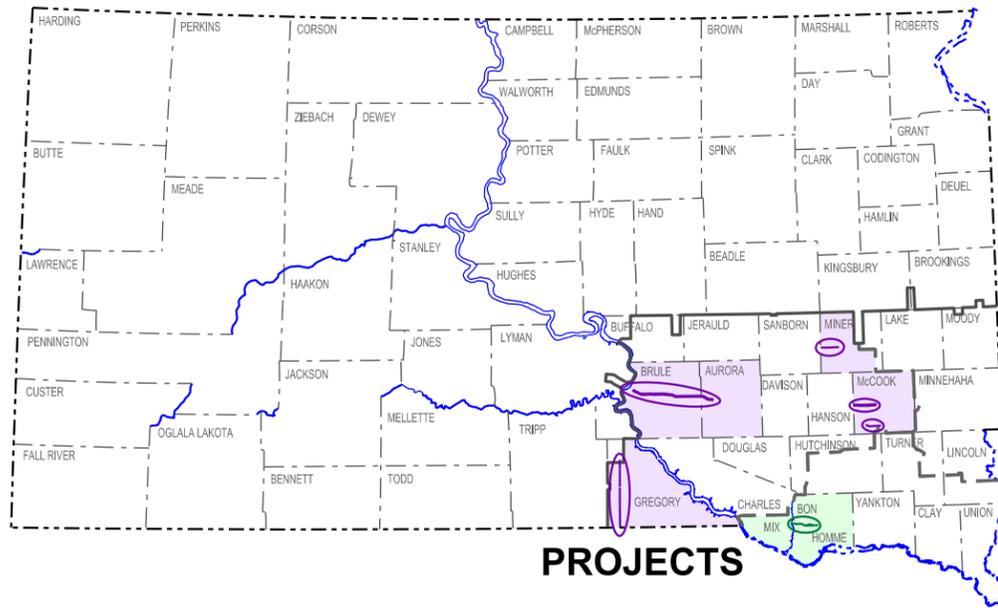
INDEX OF SHEETS

| | |
|----------------|---------------------------|
| Sheet 1 | Title Sheet |
| Sheets 2 - 9 | Layout Maps |
| Sheets 10 & 11 | Estimate of Quantities |
| Sheet 12 | Environmental Commitments |
| Sheets 13 & 14 | Plan Notes |
| Sheet 15 | Pavement Marking |
| Sheet 16 | Typical Reservoir Section |
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PROJECT IM-P 0021(158)
INTERSTATE 90 &
SD HIGHWAYS 34, 42, 47, 251 & 262
AURORA, BRULE, GREGORY,
McCOOK & MINER COUNTIES
MITCHELL AREA
ASPHALT CONCRETE
CRACK SEALING
PCN 054E

PROJECT NH 0023(46)
SD HIGHWAYS 50,
50E & 50W
CHARLES MIX &
BON HOMME COS
YANKTON AREA
ASPHALT CONCRETE
CRACK SEALING
PCN 054K

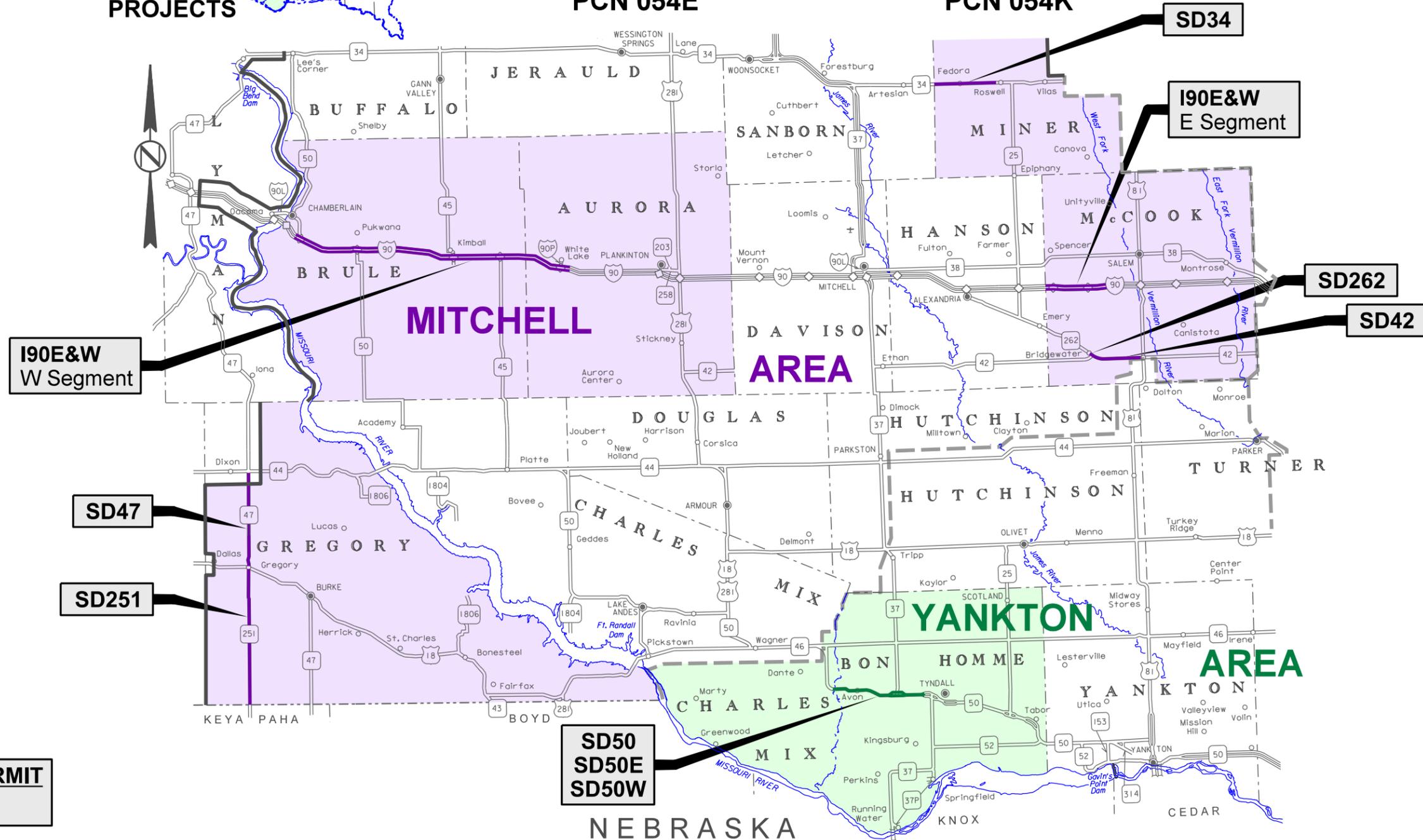
PROJECTS



PLOT SCALE - 1" = 7000'

PLOTTED FROM - TRMLINT06

FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN PLOT NAME - 9



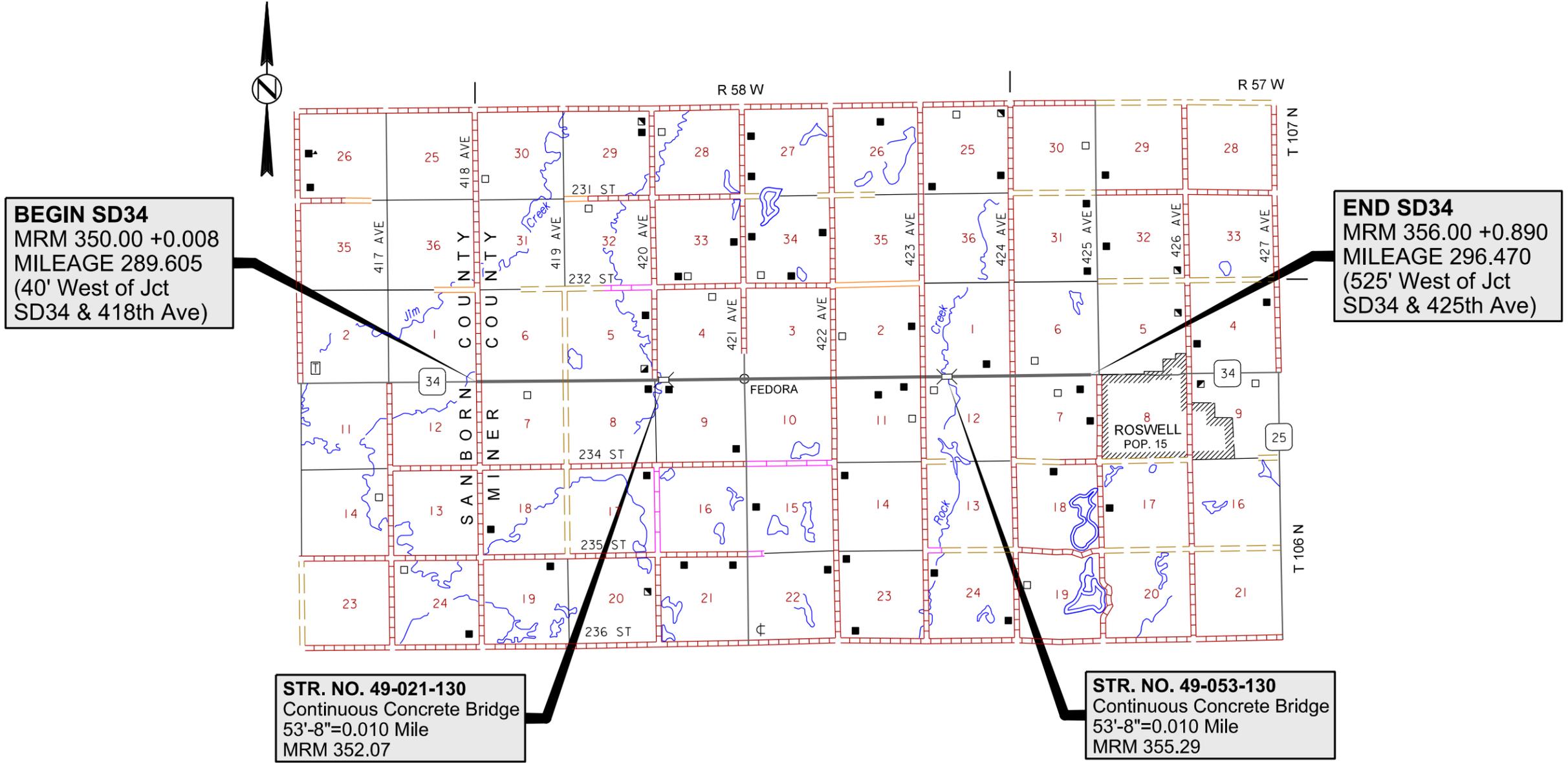
STORM WATER PERMIT
(None required)

9

PROJECT IM-P 0021(158)
SD HIGHWAY 34
MINER COUNTY
MITCHELL AREA
ASPHALT CONCRETE CRACK SEALING
GROSS LENGTH: 6.865 MILES
BRIDGE LENGTH: 0.020 MILE
NET LENGTH: 6.845 MILES
PCN 054E

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 2 | 20 |

Plotting Date: 11/18/2015



ADT (2014) 1,045

Plot Scale - 1:7000

Plotted From - trmi1.mxd

Plot Name -

File - ...2016 Mit & Yan Area Crack Seal T1054E & T1054K.dgn

**PROJECT IM-P 0021(158)
SD HIGHWAY 262
McCOOK COUNTY
MITCHELL AREA
ASPHALT CONCRETE CRACK SEALING
LENGTH: 0.079 MILE
PCN 054E**

**PROJECT IM-P 0021(158)
SD HIGHWAY 42
McCOOK COUNTY
MITCHELL AREA
ASPHALT CONCRETE CRACK SEALING
LENGTH: 5.260 MILES
PCN 054E**

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 3 | 20 |

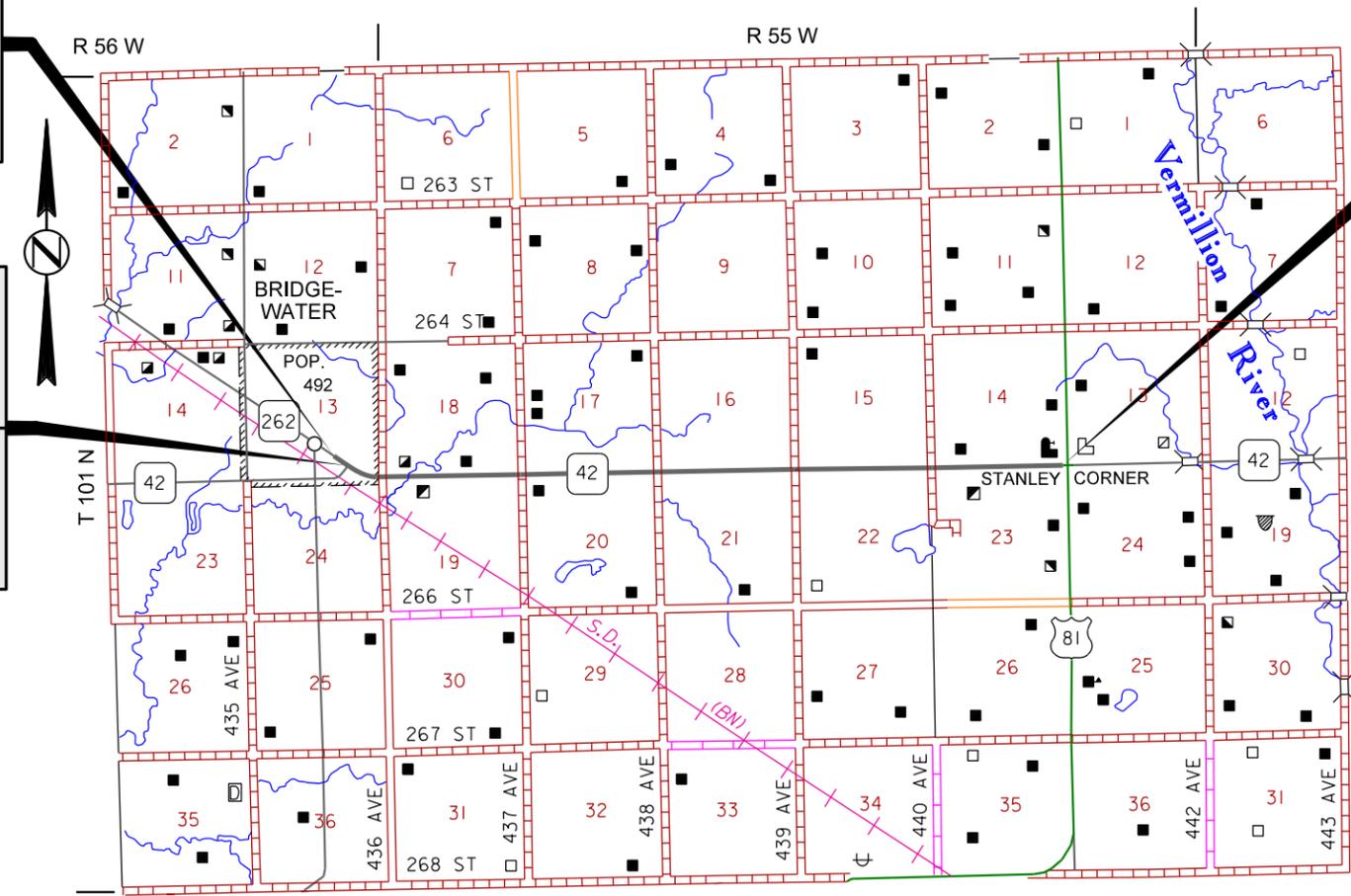
Plotting Date: 11/18/2015

BEGIN SD262
MRM 373.00 +0.499
MILEAGE 17.484
(Approximately 415'
NW of the Junction
of SD42 and SD262)

END SD262
MRM 373.57 +0.000
MILEAGE 17.563
(Junction with SD42)

BEGIN SD42
MRM 327.78 +0.000
MILEAGE 31.811
(Junction with SD262)

END SD42
MRM 333.00 +0.031
MILEAGE 37.071
(At Begin Concrete
120' W of the Junction
of SD42 and US81)



**SD262 ADT (2014) 1,040
SD42 ADT (2014) 1,475**

PLOT SCALE - 1:7000

PLOTTED FROM - TRMLINT06

FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN PLOT NAME - 9

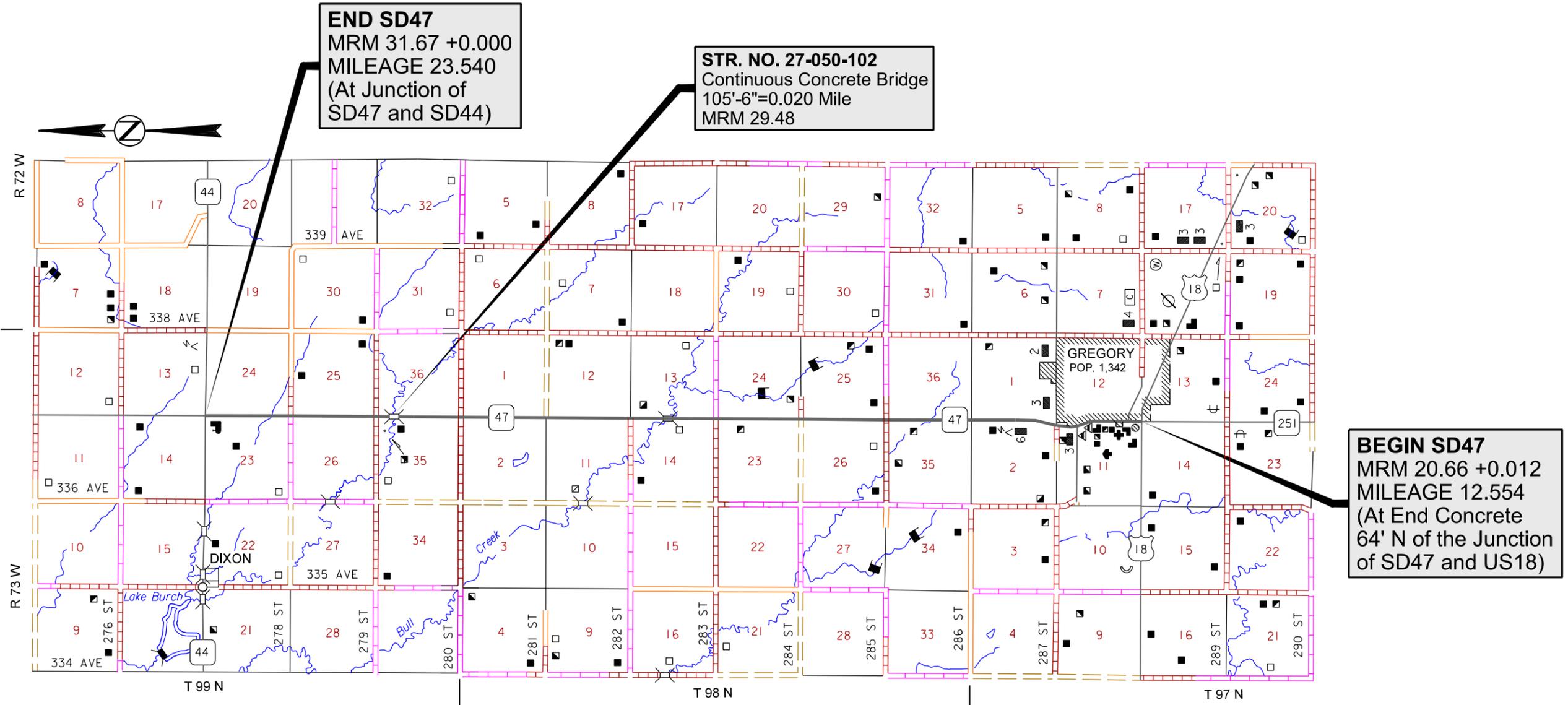
PROJECT IM-P 0021(158)
SD HIGHWAY 47
GREGORY COUNTY
MITCHELL AREA
ASPHALT CONCRETE CRACK SEALING
GROSS LENGTH: 10.986 MILES
BRIDGE LENGTH: 0.020 MILE
NET LENGTH: 10.966 MILES
PCN 054E

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 4 | 20 |

Plotting Date: 11/18/2015

PLOT SCALE - 1"=7000'

FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN PLOT NAME - 9



ADT (2014) 1,062

PLOTTED FROM - TRMLINT06

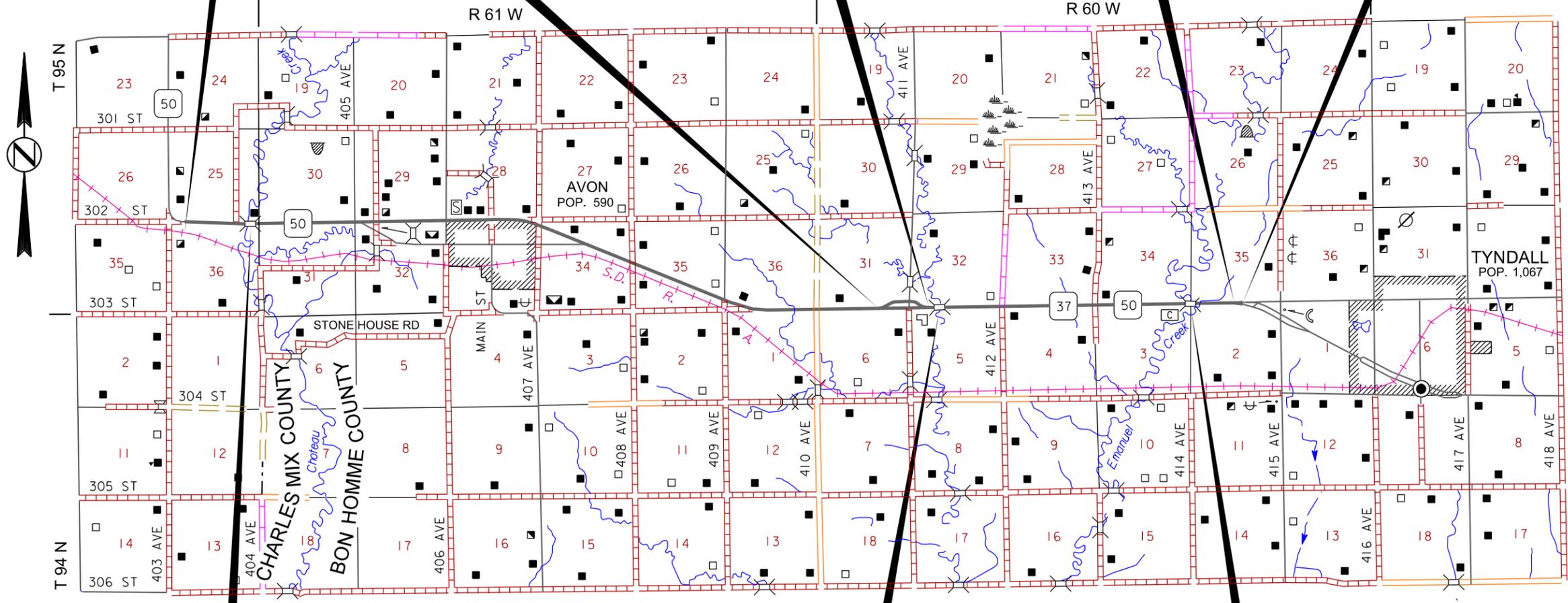
PROJECT NH 0023(46)
SD HIGHWAYS 50, 50E & 50W
BON HOMME & CHARLES MIX COUNTIES
YANKTON AREA
ASPHALT CONCRETE CRACK SEALING
GROSS LENGTH: 11.340 MILES
BRIDGE LENGTH: 0.061 MILE
NET LENGTH: 11.279 MILES
PCN 054K

| | | | |
|-----------------------|------------------------------|------------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 5 | 20 |
| Plotting Date: | | 11/18/2015 | |

SD50 (UNDIVIDED)
SD50 GROSS LENGTH: 10.485 MILES
SD50 BRIDGE LENGTH: 0.061 MILE
SD50 NET LENGTH: 10.424 MILES

SD50E&W (DIVIDED)
SD50E LENGTH: 0.855 MILE
SD50W LENGTH: 0.855 MILE
SD50 DIVIDED LENGTH: 0.855 MILE

| | | | | |
|---|---|--|--|--|
| BEGIN SD50 MRM 343.00 +0.057 MILEAGE 89.478 (Just E of End Curve) | SUSPEND SD50 BEGIN SD50E&W MRM 350.42 +0.000 SD50 MILEAGE 96.855 SD50E MILEAGE 0.000 SD50W MILEAGE 0.000 | SUSPEND SD50E&W CONTINUE SD50 MRM 351.20 +0.000 SD50 MILEAGE 96.855 SD50E MILEAGE 0.765 SD50W MILEAGE 0.765 | END SD50 CONTINUE SD50E&W MRM 354.30 +0.000 SD50 MILEAGE 99.963 SD50E MILEAGE 0.765 SD50W MILEAGE 0.765 | END SD50E&W (AT END TAPER) MRM 354.30 +0.090 SD50E MILEAGE 0.855 SD50W MILEAGE 0.855 |
|---|---|--|--|--|



SD50 ADT (2014) 1,806
SD50E ADT (2014) 1,166
SD50W ADT (2014) 1,166

STR. NO. 05-029-110
 Continuous Concrete Bridge
 94'-0"=0.018 Mile
 MRM 343.64

STR. NO. 05-103-120
 Continuous Concrete Bridge
 99'-6"=0.019 Mile
 MRM 351.24

STR. NO. 05-130-120
 Continuous Concrete Bridge
 128'-6"=0.024 Mile
 MRM 353.94

Plot Scale - 1:7000

Plotted From - trm11.m06

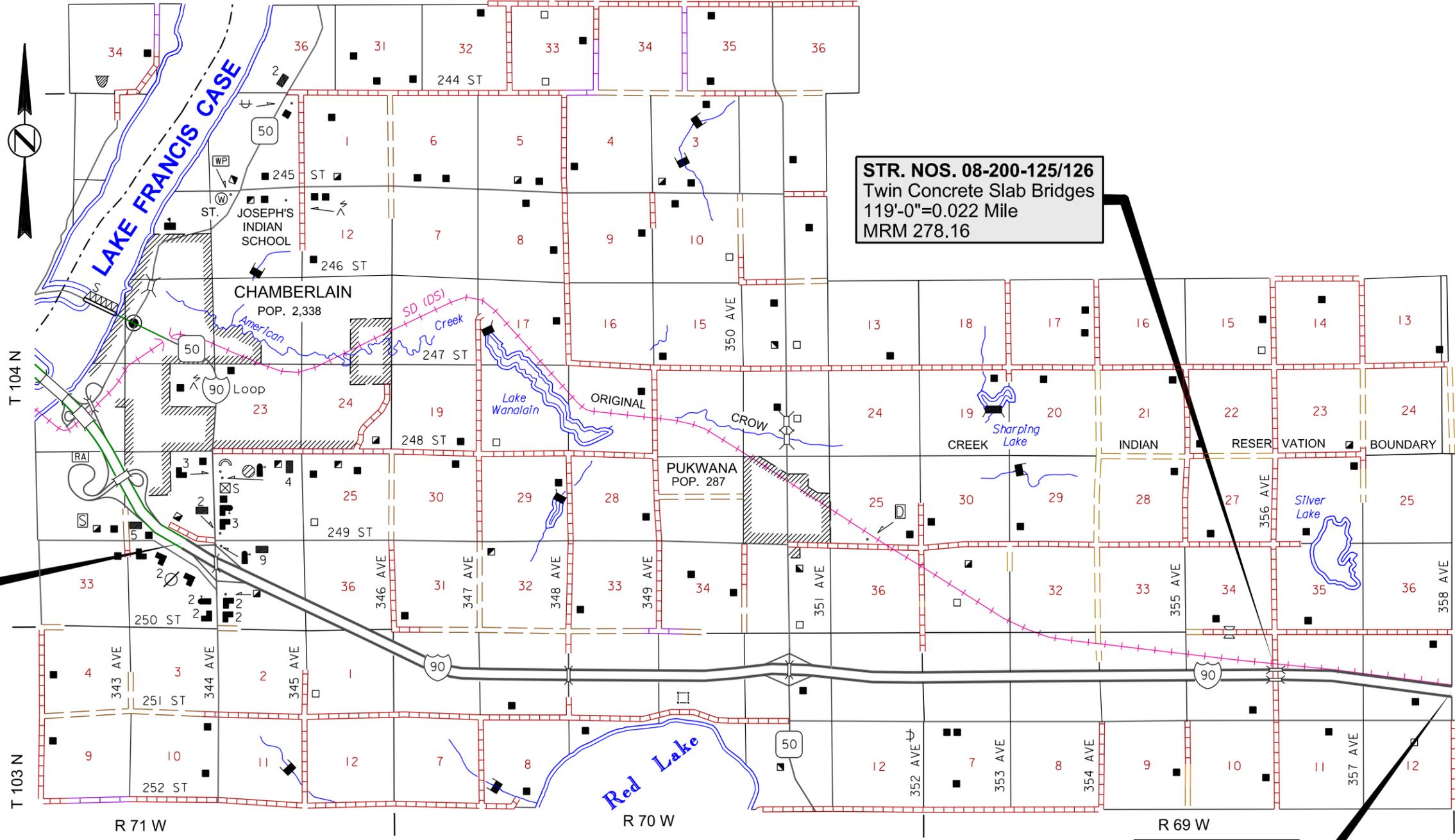
Plot Name -

File - ...2015\mft & Yan Area Crack Seal\Ttl054E & Ttl054K.dgn

**PROJECT IM-P 0021(158)
 INTERSTATE 90 WEST SEGMENT
 BRULE & AURORA COUNTIES
 MITCHELL AREA
 ASPHALT CONCRETE CRACK SEALING OF OUTSIDE SHOULDERS
 GROSS LENGTH: 32.171 MILES
 BRIDGE & APPROACH CONCRETE & SLABS LENGTH: 0.152 MILE
 NET LENGTH: 32.019 MILES
 PCN 054E**

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 6 | 20 |

Plotting Date: 11/18/2015



BEGIN I90E&W
 MRM 265.00 +0.469
 MILEAGE 265.818
 (At End Concrete)

STR. NOS. 08-200-125/126
 Twin Concrete Slab Bridges
 119'-0"=0.022 Mile
 MRM 278.16

**I90 continues
 on next sheet**

I90 ADT (2014) 6,788

PLOT SCALE - 1:7000

PLOTTED FROM - IRMLINT06

FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN PLOT NAME - 9

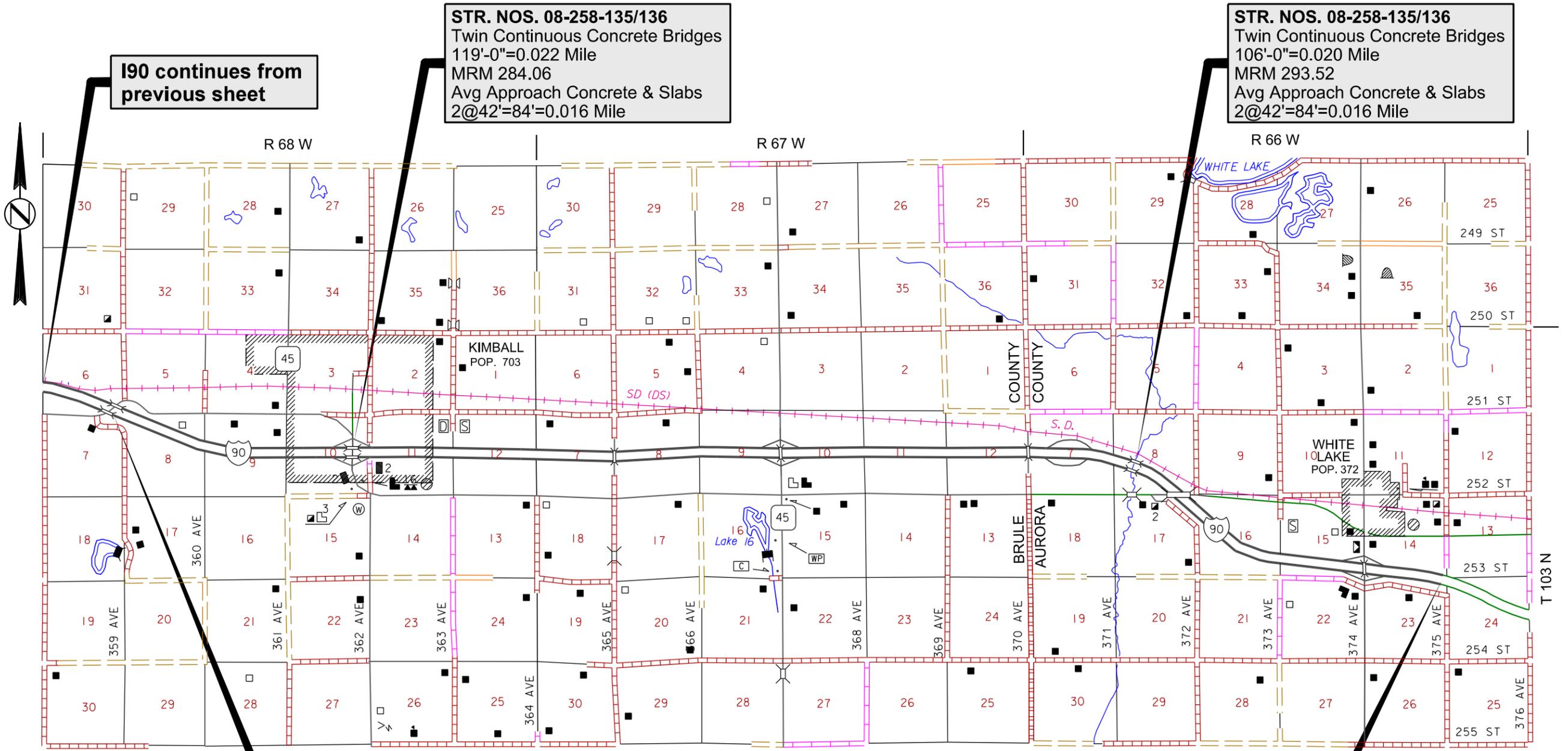
**PROJECT IM-P 0021(158)
 INTERSTATE 90 WEST SEGMENT
 (CONTINUED FROM PREVIOUS SHEET)
 BRULE & AURORA COUNTIES
 MITCHELL AREA
 ASPHALT CONCRETE CRACK SEALING OF OUTSIDE SHOULDERS
 PCN 054E**

| | | | |
|-----------------------|------------------------------|-------|--------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 7 | 20 |

Plotting Date: 11/18/2015

PLOT SCALE - 1:7000

PLOT NAME - 9
 FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN



I90 continues from previous sheet

STR. NOS. 08-258-135/136
 Twin Continuous Concrete Bridges
 119'-0"=0.022 Mile
 MRM 284.06
 Avg Approach Concrete & Slabs
 2@42'=84'=0.016 Mile

STR. NOS. 08-258-135/136
 Twin Continuous Concrete Bridges
 106'-0"=0.020 Mile
 MRM 293.52
 Avg Approach Concrete & Slabs
 2@42'=84'=0.016 Mile

STR. NOS. 08-230-130/131
 Twin Prestressed Girder Bridges
 173'-0 5/8"=0.033 Mile
 MRM 281.13
 Avg Approach Concrete & Slabs
 2@61'=122'=0.023 Mile

END I90E&W
 MRM 297.00 +0.673
 MILEAGE 297.989
 (At Begin Concrete)

I90 ADT (2014) 7,308

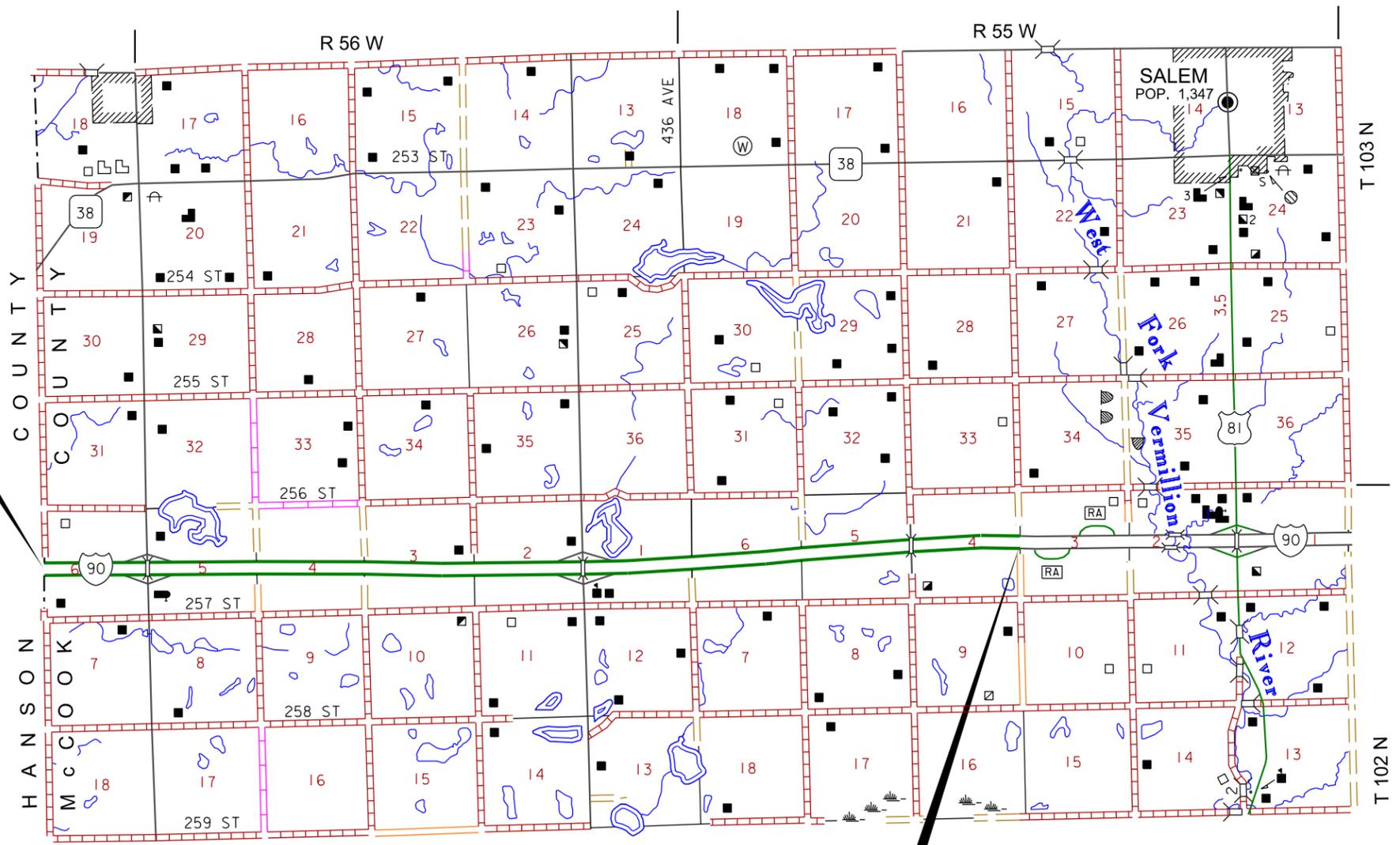
**PROJECT IM-P 0021(158)
 INTERSTATE 90 EAST SEGMENT
 McCOOK COUNTY
 MITCHELL AREA
 ASPHALT CONCRETE CRACK SEALING OF SHOULDERS
 LENGTH: 8.958 MILES
 PCN 054E**

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 8 | 20 |

Plotting Date: 11/18/2015

PLOT SCALE - 1:7000

FILE - ... \2016 MIT & YAN AREA CRACK SEAL TITL054E & TITL054K.DGN PLOT NAME - 9



END I90E&W
 MRM 353.07 +0.006
 MILEAGE 353.453
 (Just E of County Line)

END I90E&W
 MRM 362.00 +0.043
 MILEAGE 362.411
 (At End Concrete)

I90 ADT (2014) 9,238

PLOTTED FROM - TITL054E

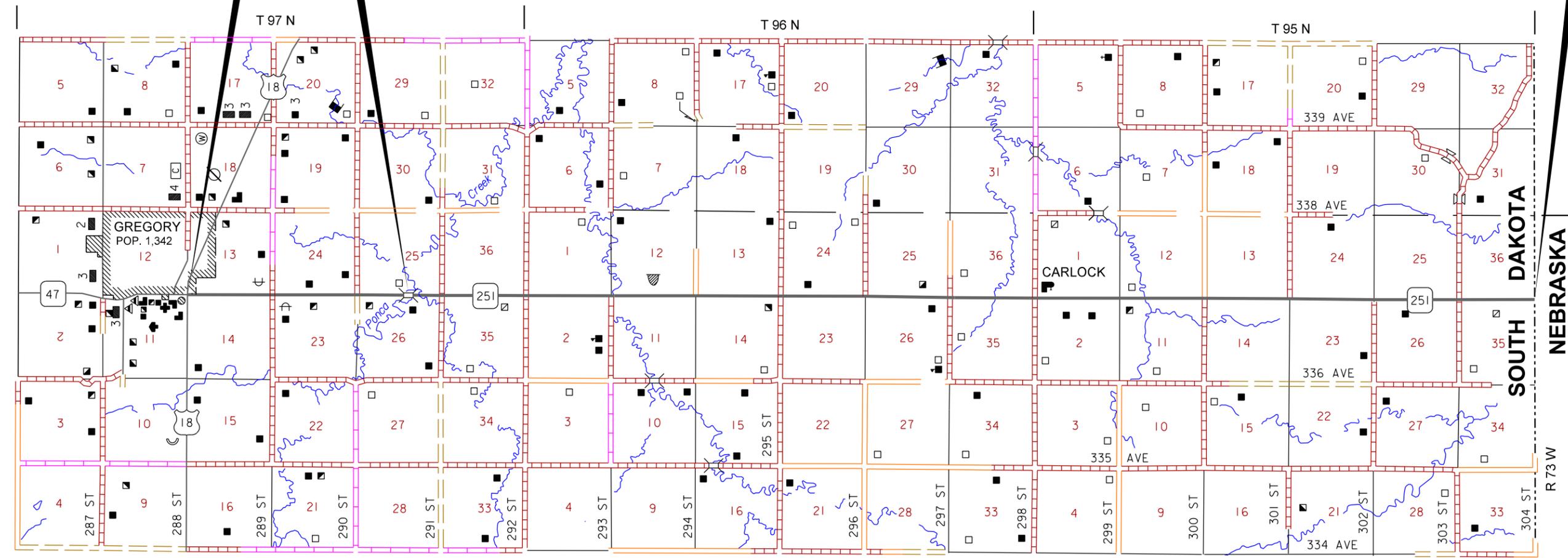
PROJECT IM-P 0021(158)
SD HIGHWAY 251
GREGORY COUNTY
MITCHELL AREA
ASPHALT CONCRETE CRACK SEALING
GROSS LENGTH: 15.743 MILES
BRIDGE LENGTH: 0.012 MILE
NET LENGTH: 15.731 MILES
PCN 054E

| | | | |
|-----------------------------|------------------------------|------------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 9 | 20 |
| Plotting Date: | | 11/18/2015 | |

END SD251
 MRM 15.83 +0.004
 MILEAGE 15.743
 (At Concrete 24' S
 of Centerline US18)

STR. NO. 27-050-216
 Continuous Concrete Bridge
 60'-6"=0.012 Mile
 MRM 13.29

BEGIN SD251
 MRM 0.00 +0.000
 MILEAGE 0.00
 (At South Dakota &
 Nebraska Line)



ADT (2014) 439

Plot Scale - 1:7000

Plotted From - trm11.mxd

Plot Name -

File - ...2016 Mit & Yan Area Crack Seal T1054E & T1054K.dgn

ESTIMATE OF QUANTITIES

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0021(158) & NH 0023(46) | 10 | 20 |

IM-P 0021(158)
PCN 054E
AURORA, BRULE, GREGORY, McCOOK & MINER COUNTIES
MITCHELL AREA

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|--------------------|------------------------------------|----------|------|
| 009E0010 | Mobilization | Lump Sum | LS |
| 350E0010 | Asphalt Concrete Crack Sealing | 124,292 | Lb |
| 633E1300 | Pavement Marking Paint, White | 2,079 | Gal |
| 633E1305 | Pavement Marking Paint, Yellow | 594 | Gal |
| 634E0010 | Flagging | 850.0 | Hour |
| 634E0020 | Pilot Car | 425.0 | Hour |
| 634E0110 | Traffic Control Signs | 1,500 | SqFt |
| 634E0120 | Traffic Control, Miscellaneous | Lump Sum | LS |
| 634E0280 | Type 3 Barricade, 8' Single Sided | 30 | Each |
| 634E0420 | Type C Advance Warning Arrow Board | 2 | Each |

NH 0023(46)
PCN 054K
BON HOMME & CHARLES MIX COUNTIES
YANKTON AREA

| BID ITEM NUMBER | ITEM | QUANTITY | UNIT |
|--------------------|--------------------------------|----------|------|
| 009E0010 | Mobilization | Lump Sum | LS |
| 350E0010 | Asphalt Concrete Crack Sealing | 12,500 | Lb |
| 633E1300 | Pavement Marking Paint, White | 352 | Gal |
| 633E1305 | Pavement Marking Paint, Yellow | 222 | Gal |
| 634E0010 | Flagging | 210.0 | Hour |
| 634E0020 | Pilot Car | 105.0 | Hour |
| 634E0110 | Traffic Control Signs | 202 | SqFt |
| 634E0120 | Traffic Control, Miscellaneous | Lump Sum | LS |

ESTIMATE OF QUANTITIES (FOR INFORMATION ONLY)

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0021(158) & NH 0023(46) | 11 | 20 |

| BID ITEM | ITEM | IM-P 0021(158) SD 34 | IM-P 0021(158) SD 42 | IM-P 0021(158) SD 47 | NH 0023(46) SD 50 | IM-P 0021(158) I 90 West | IM-P 0021(158) I 90 East | IM-P 0021(158) SD 251 | IM-P 0021(158) SD 262 | TOTAL QUANTITY |
|-------------|------------------------------------|-------------------------|-------------------------|-------------------------|----------------------|-----------------------------|-----------------------------|--------------------------|--------------------------|-------------------|
| 009E0010 | Mobilization | ←———— LUMP SUM —————→ | | | | | | | | Lump Sum |
| 350E0010 | Asphalt Concrete Crack Sealing | 13,667 | 6,567 | 8,451 | 12,500 | 44,969 | 28,425 | 21,807 | 406 | 136,792 Lb |
| 633E1300 | Pavement Marking Paint, White | 455 | 176 | 382 | 352 | ---- | ---- | 1,063 | 3 | 2,431 Gal |
| 633E1305 | Pavement Marking Paint, Yellow | 56 | 43 | 211 | 222 | ---- | ---- | 278 | 6 | 816 Gal |
| 634E0010 | Flagging | 230 | 110 | 140 | 210 | ---- | ---- | 360 | 10 | 1,060 Hour |
| 634E0020 | Pilot Car | 115 | 55 | 70 | 105 | ---- | ---- | 180 | 5 | 530 Hour |
| 634E0110 | Traffic Control Signs | 202 | 202 | 202 | 202 | 245 | 245 | 202 | 202 | 1,702 SqFt |
| 634E0120 | Traffic Control, Miscellaneous | ←———— LUMP SUM —————→ | | | | | | | | Lump Sum |
| 634E0280 | Type 3 Barricade, 8' Single Sided | ---- | ---- | ---- | ---- | 15 | 15 | ---- | ---- | 30 Each |
| 634E0420 | Type C Advance Warning Arrow Panel | ---- | ---- | ---- | ---- | 1 | 1 | ---- | ---- | 2 Each |

ENVIRONMENTAL COMMITMENTS

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0021(158) & NH 0023(46) | 12 | 20 |

ENVIRONMENTAL COMMITMENTS

An Environmental Commitment is a measure that SDDOT commits to implement in order to avoid, minimize, and/or mitigate a real or potential environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency mentioned below with permitting authority can influence a project if perceived 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. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office. The environmental commitments associated with this project are as follows:

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 pit, or staging site associated with the project, cease construction activities in the affected area until the Whooping Crane departs and contact the Project Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

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 shall 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 State ROW.

The waste disposal site(s) shall 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 Environment and Natural Resources.

The waste disposal site(s) shall 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 Project Engineer.

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

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

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical 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 review of cultural resources impacts. 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 shall arrange and pay for a cultural resource survey and/or records search. 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; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the proposed site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). 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.

If evidence for historic or cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order 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 shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COORDINATION BETWEEN CONTRACTORS

A separate contract for Project NH-P 0021(157) - PCN 053F has been awarded to another Contractor for asphalt surface treatment on SD34 and SD42 adjacent to the SD34 and SD42 routes on this contract.

The Contractor shall coordinate with the asphalt surface treatment Contractor so that there is at least 3 miles between the two work areas if work is going on concurrently on these routes.

A separate contract for Project PH 0020(140) – PCN 04GV has been awarded to another Contractor for corridor signing replacement on SD42, SD50, SD50E, SD50W and SD262.

The Contractor shall coordinate with the signing Contractor so that the two Contractors are not working on the same route at the same time.

ASPHALT CONCRETE CRACK SEALING

Only the top of the road shall be routed and sealed. No routing and sealing shall be done on the Asphalt Concrete level.

The width of crack sealing will vary but the typical roadway widths for information only are as follows:

On projects with curb and gutter the asphalt concrete will typically be sealed gutter to gutter.

SD 34 the top width is typically 30 feet wide

SD 42 the top width is typically 32 feet wide.

SD 47 the top width is typically 30 feet wide

SD 50 the top width is typically 36 and 44 feet wide.

SD 50E the top width is typically 33 feet wide.

SD 50W the top width is typically 33 feet wide.

SD 251 the top width is typically 27 feet wide.

I 90 West Segment top width is typically 7.5 feet wide on the outside shoulder.

I 90 East Segment top width is typically 9 feet wide on the outside shoulder and 5 feet wide on the inside shoulder.

SD 262 the top width is typically 43 feet wide.

All other requirements stated in Section 350 shall apply.

TABLE OF LONGITUDINAL AND TRANSVERSE CRACKS

| PROJECT | LONGITUDINAL | TRANSVERSE |
|-------------------|--------------|------------|
| SD 34 | 0% | 100% |
| SD 42 | 0% | 100% |
| SD 47 | 0% | 100% |
| SD 50 | 0% | 100% |
| I 90 West Segment | 0% | 100% |
| I 90 East Segment | 0% | 100% |
| SD 251 | 1% | 99% |
| SD 262 | 0% | 100% |

PERMANENT PAVEMENT MARKING

The application of permanent pavement marking may not begin until 7 calendar days following completion of the crack seal and shall be completed within 14 calendar days following completion of the crack seal.

Marking eight inch edgelines and gore areas shall require the use of two spray nozzles to achieve the required width. Marking twelve inch gore lines shall require the use of three spray nozzles to achieve the required width.

The Contractor will be required to repaint all existing pavement marking including centerline, edgeline, dashed edgelines, dashed lane lines, lane lines, turn lanes, gore areas, etc., except for the 24" hashes in the gore area at the east end of SD 50.

Flush sealing shall not be allowed as an option for correction of markings that are not within tolerance due to the occurrence of shadow through.

If the permanent pavement marking cannot be completed on any of the routes before October 15th see the plan note about Cold Weather Waterborne Paint. If the contract is not completed by the completion date and carries over into the next season, none of the routes carried over will have permanent pavement marking applied to them as these routes will receive an asphalt surface treatment that season.

The following table contains locations of existing pavement marking to be painted by hand.

TABLE OF HAND PAINTED PAVEMENT MARKING

| PROJECT | LOCATION |
|---------|--|
| SD 42 | 24" Hashes in Turn Bay at Jct SD 262 |
| SD 42 | Solid Areas in Turn Bay at Jct SD 262 |
| SD 47 | Word Messages at SD 44 Intersection – NB |
| SD 47 | Stop Line at Jct SD 44 – NB |
| SD 251 | Stop Line at Jct US 18 – NB |
| SD 262 | 24" Hashes in Turn Bay at Jct SD 262 |
| SD 262 | Solid Areas in Turn Bay at Jct SD 262 |

TABLES OF PERMANENT PAVEMENT MARKING

| SD 34 | White | Yellow |
|---|------------|-----------|
| Yellow Centerline Dashes = 6.800 miles @ 4.6 Gal/Mile | | 31.3 |
| Solid Yellow Centerline = 1.436 miles @ 16.9 Gal/Mile | | 24.3 |
| 8" Solid White Edgelines = 13.466 miles @ 33.8 Gal/Mile | 455.2 | |
| TOTAL GALLONS | 455 | 56 |

PERMANENT PAVEMENT MARKING (CONTINUED)

TABLES OF PERMANENT PAVEMENT MARKING

| SD 42 | White | Yellow |
|--|------------|-----------|
| Yellow Centerline Dashes = 5.179 miles @ 4.6 Gal/Mile | | 23.8 |
| Solid Yellow Centerline = 0.783 miles @ 16.9 Gal/Mile | | 13.2 |
| Double Yellow for Turn Bays = 2 (4" line) X 0.137 miles @ 16.9 Gal/Mile | | 4.6 |
| 24" Yellow Hashes for Turn Bays = 0.009 miles @ 101.4 Gal/Mile | | 0.9 |
| Solid Yellow Areas for Turn Bays = 88 SqFt = 0.050 miles @ 16.9 Gal/Mile | | 0.8 |
| 4" Solid White Edgelines = 10.385 miles @ 16.9 Gal/Mile | 175.5 | |
| Solid White Lane Line = 0.016 miles @ 16.9 Gal/Mile | 0.3 | |
| TOTAL GALLONS | 176 | 43 |

| SD 47 | White | Yellow |
|---|------------|------------|
| Yellow Centerline Dashes = 9.972 miles @ 4.6 Gal/Mile | | 45.9 |
| Solid Yellow Centerline = 9.769 miles @ 16.9 Gal/Mile | | 165.1 |
| 4" Solid White Edgelines = 22.512 miles @ 16.9 Gal/Mile | 380.5 | |
| White Word Messages = 86.7 SqFt = 0.049 miles @ 16.9 Gal/Mile | 0.8 | |
| 24" White Stop Line = 0.005 miles @ 101.4 Gal/Mile | 0.5 | |
| TOTAL GALLONS | 382 | 211 |

| SD 50 | White | Yellow |
|---|------------|------------|
| Yellow Centerline Dashes = 7.768 miles @ 4.6 Gal/Mile | | 35.7 |
| Solid Yellow Centerline = 9.258 miles @ 16.9 Gal/Mile | | 156.5 |
| 8" Solid Yellow for Gore Area = 0.875 miles @ 33.8 Gal/Mile | | 29.6 |
| 4" Solid White Edgelines = 20.291 miles @ 16.9 Gal/Mile | 342.9 | |
| 4" White Edgeline Dashes = 0.114 miles @ 4.6 Gal/Mile | 0.5 | |
| White Lane Line Dashes = 0.189 miles @ 4.6 Gal/Mile | 0.9 | |
| 8" Solid White for Gore Area = 0.228 miles @ 33.8 Gal/Mile | 7.7 | |
| TOTAL GALLONS | 352 | 222 |

| SD 251 | White | Yellow |
|---|-------------|------------|
| Yellow Centerline Dashes = 14.038 miles @ 4.6 Gal/Mile | | 64.6 |
| Solid Yellow Centerline = 12.595 miles @ 16.9 Gal/Mile | | 212.9 |
| 8" Solid White Edgelines = 31.432 miles @ 33.8 Gal/Mile | 1062.4 | |
| 24" White Stop Line = 0.003 miles @ 16.9 Gal/Mile | 0.1 | |
| TOTAL GALLONS | 1063 | 278 |

| SD 262 | White | Yellow |
|--|----------|----------|
| Double Yellow for Turn Bays = 2 (4" line) X 0.137 miles @ 16.9 Gal/Mile | | 4.6 |
| 24" Yellow Hashes for Turn Bays = 0.010 miles @ 101.4 Gal/Mile | | 1.0 |
| Solid Yellow Areas for Turn Bays = 44 SqFt = 0.025 miles @ 16.9 Gal/Mile | | 0.4 |
| 4" Solid White Edgelines = 0.157 miles @ 16.9 Gal/Mile | 2.7 | |
| TOTAL GALLONS | 3 | 6 |

PERMANENT PAVEMENT MARKING I 90

The existing pavement marking on both I 90 routes is durable pavement marking. These routes will not be repainted on this contract.

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0021(158) & NH 0023(46) | 14 | 20 |

COLD WEATHER WATERBORNE PAINT

Waterborne paint applied after October 15 shall be formulated as cold-weather waterborne paint and shall be applied in accordance with the manufacturer's recommendations, including minimum temperature requirements.

Cold-weather waterborne paint shall conform to Section 980 of the Specifications except for the following:

980.1: Resin Binder shall be FASTRACK™ XSR™ manufactured by Dow, or an approved equal.

980.1 A. Quantitative Requirements:

Pigment, percent by weight: 60.0 to 63.0 for white and 58.5 to 61.5 for yellow.

Pigment, percent by weight; tested in accordance with ASTM D3723: 60.0 to 63.0 for white and 56.1 to 59.2 for yellow.

Non-volatile Vehicle, percent by weight; tested in accordance with NIST 141C (Method 4051.1): 41.5 minimum for white and 41.5 minimum for yellow.

GENERAL MAINTENANCE OF TRAFFIC

Flaggers and a pilot car shall be used when traffic must be routed out of its normal lane for a distance greater than the two flaggers are able to communicate with each other.

Routing traffic onto gravel or asphalt shoulders during any phase of the construction will not be allowed. Damage to the shoulders due to the Contractor's operation shall be repaired by the Contractor, to the satisfaction of the Engineer, at no expense to the State.

Overnight lane closures will not be allowed.

Sufficient traffic control devices have been included in these plans to sign one workspace. If the Contractor elects to work on additional sites simultaneously, the cost for additional traffic control devices shall be incidental to the contract unit price per square foot for Traffic Control Signs.

MAINTENANCE OF TRAFFIC (INTERSTATE HIGHWAYS)

A Type 3 Barricade shall be installed at the end of a lane closure taper as detailed in these plans. Additional Type 3 Barricades shall be installed facing traffic within the closed lane at a spacing of 1/4 mile.

Work activities shall not be conducted simultaneously on the median and outside shoulders of the same directional set of lanes.

The use of interstate maintenance crossovers will not be permitted.

Traffic will be permitted on the ramp shoulders when necessary to allow traffic around a workspace.

FURNISHING AND APPLYING PAVEMENT MARKING PAINT

TWO LANE ROADWAY

TWO LANE ROADWAY

Paint application rates shall be as follows:

| UNDIVIDED ROADWAY | |
|---|---|
| PROJECT NO.: | PROJECT |
| SD 42 | SD 34 |
| SD 44 | SD 251 |
| SD 50 | |
| SD 262 | |
| Two Lane Roadway | |
| (Rate for one line) | |
| Dashed Yellow Centerline Rate = 4.6 Gal/Pass-Mile | |
| Solid Yellow Centerline Rate = 16.9 Gal/Pass-Mile | |
| Solid White Edgeline Edgeline - 4" Rate = 16.9 Gal/Pass-Mile | Solid White Edgeline Edgeline - 8" Rate = 33.8 Gal/Pass-Mile |
| Glass Beads = 8 Lb/Gal | |

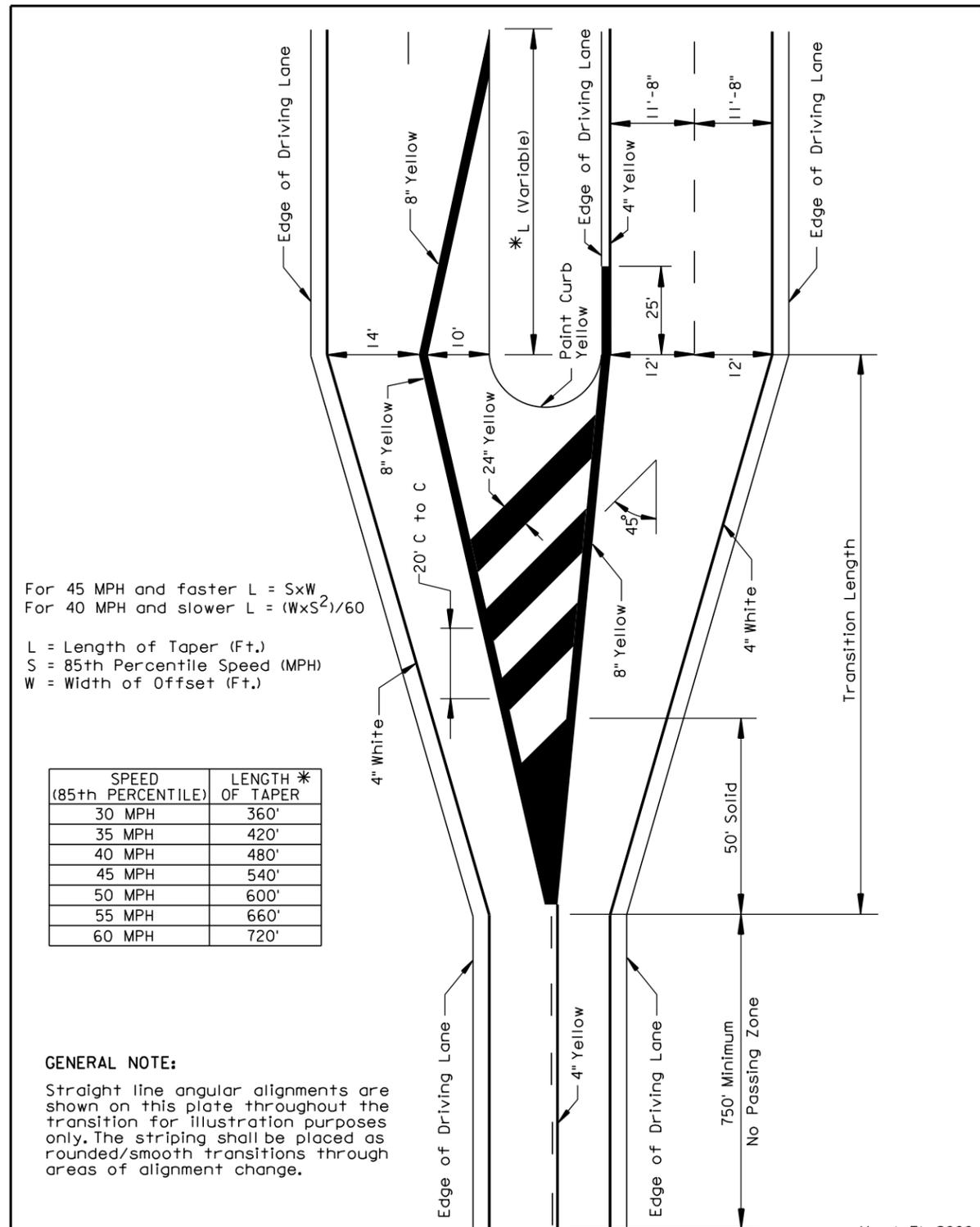
Typical pavement marking as shown on this sheet shall be applied throughout the entire length of applicable sections of roadway.

Traffic Control shall be incidental to the cost of application. The striper and advance or trailing warning vehicle shall be equipped with flashing amber lights or advance warning arrow board.

Two Left Arrows shall be positioned in the left turn lane, at each left turn lane for intersecting roads and streets.

| ESTIMATED QUANTITIES | | |
|----------------------|------------------------|------------|
| PROJECTS | PAVEMENT MARKING PAINT | |
| | WHITE | YELLOW |
| IM-P 0021(158) | | |
| SD 34 | 455 | 56 |
| SD 42 | 176 | 43 |
| SD 44 | 382 | 211 |
| SD 251 | 1063 | 278 |
| SD 262 | 3 | 6 |
| TOTAL GALLONS | 2079 | 594 |

| ESTIMATED QUANTITIES | | |
|----------------------|------------------------|--------|
| PROJECTS | PAVEMENT MARKING PAINT | |
| | WHITE | YELLOW |
| NH 0023(46) | | |
| SD 50 | 352 | 222 |



March 31, 2000

Published Date: 4th Qtr. 2015

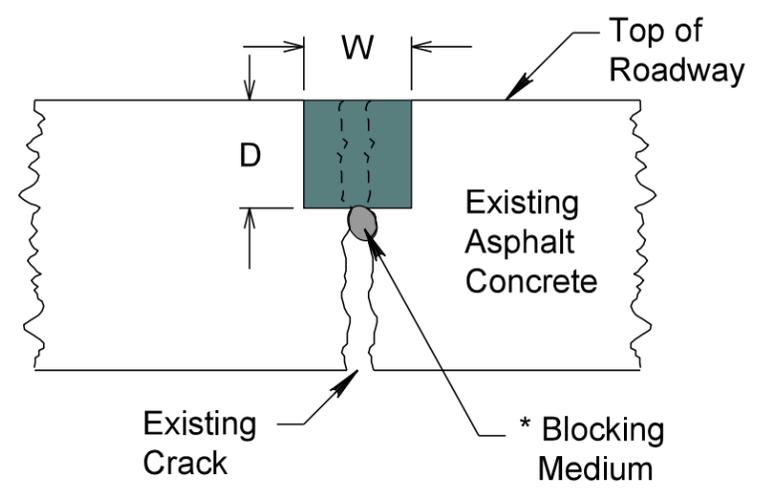
SD DOT

STANDARD APPROACH MARKINGS FOR
TWO LANE TO FOUR LANE DIVIDED HIGHWAYS

PLATE NUMBER
633.02

Sheet 1 of 1

TYPICAL RESERVOIR SECTION



* Inert compressible material required for cracks 3/8" or more in width. The backer rod shall be a nonmoisture absorbing, resilient material approximately 25 percent larger in diameter than the width of the joint to be sealed. The backer rod shall be compatible with the sealant and no bond or reaction shall occur between the rod and the sealant.

D & W = 3/4"

| Recommended Backer Rod Diameter for Joint Width | |
|---|--------------|
| Joint Width | Rod Diameter |
| 3/16" - 1/4" | 3/8" |
| 1/4" - 3/8" | 1/2" |
| 3/8" - 1/2" | 5/8" |
| 5/8" - 3/4" | 7/8" |
| 3/4" - 7/8" | 1" |
| 7/8" - 1" | 1 1/4" |
| 1" - 1 1/4" | 1 1/2" |
| 1 1/4" - 1 1/2" | 2" |

PLOT SCALE - 1:7000

PLOT NAME - 3

FILE - ... \63423 SP & TC RAMP 2016 054E.DGN

PLOTTED FROM - TRMLINT06

TRAFFIC CONTROL

LANE CLOSURE WITH FLAGGER PROVIDED

SD 34, SD 42, SD 47, SD 50, SD 251 & SD 262
MINER, McCOOK, GREGORY, BON HOMME & CHARLES MIX COUNTIES

| 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 - 50 | 500 | 50 |
| 55 | 750 | 50 |
| 60 - 65 | 1000 | 50 |

Warning sign sequence in opposite direction same as below.

- 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) shall 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.

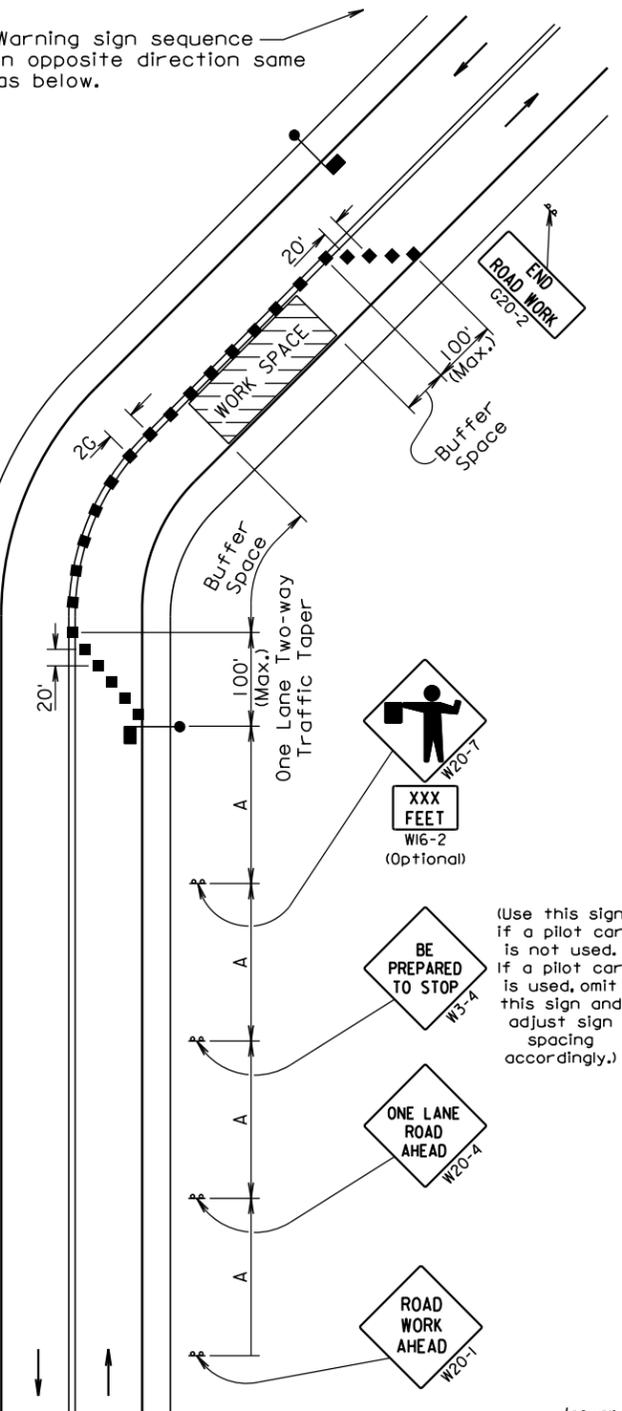
The channelizing devices shall be drums or 42" cones.

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 shall 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.

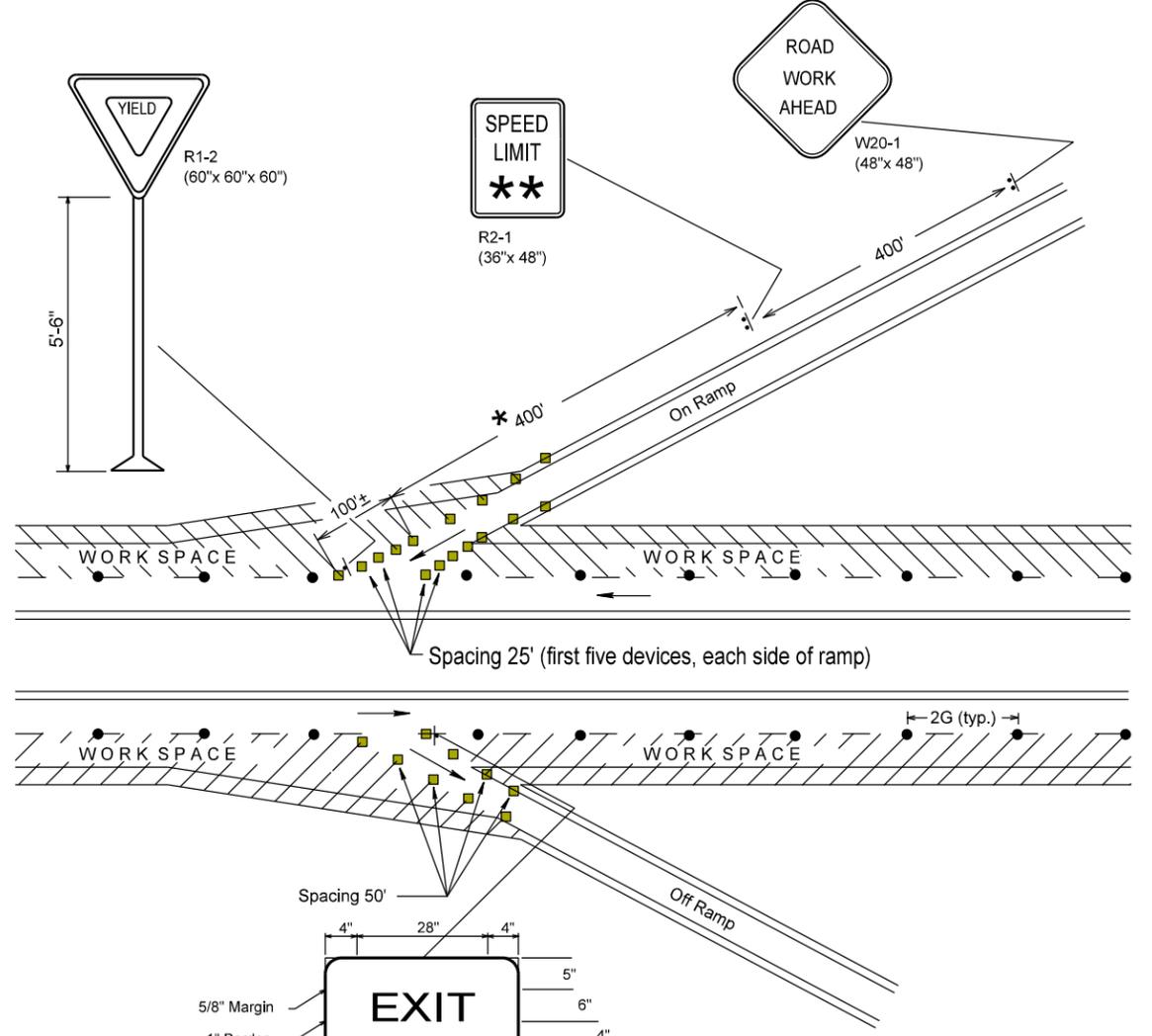


January 7, 2014

TRAFFIC CONTROL

ENTRANCE RAMP AND EXIT RAMP DETAILS

I 90
BRULE, AURORA & McCOOK COUNTIES



| Posted Speed Prior to Work (M.P.H.) | Spacing of Channelizing Devices (FEET) (G) |
|-------------------------------------|--|
| 0 - 30 | 25 |
| 35 - 40 | 25 |
| 45 - 50 | 50 |
| 55 | 50 |
| 60 - 65 | 50 |
| 75-80 | 50 |



- ■ Reflectorized Drums
- ● Reflectorized Drums or 42" Cones
- * Spacing may need to be adjusted to allow for other warning sign installations.
- ** Speed limit to be the same as interstate mainline speed limit.
- Need and location for Flagger and Flagger Symbol sign to be determined at the site by the Engineer.



Plotting Date: 11/18/2015

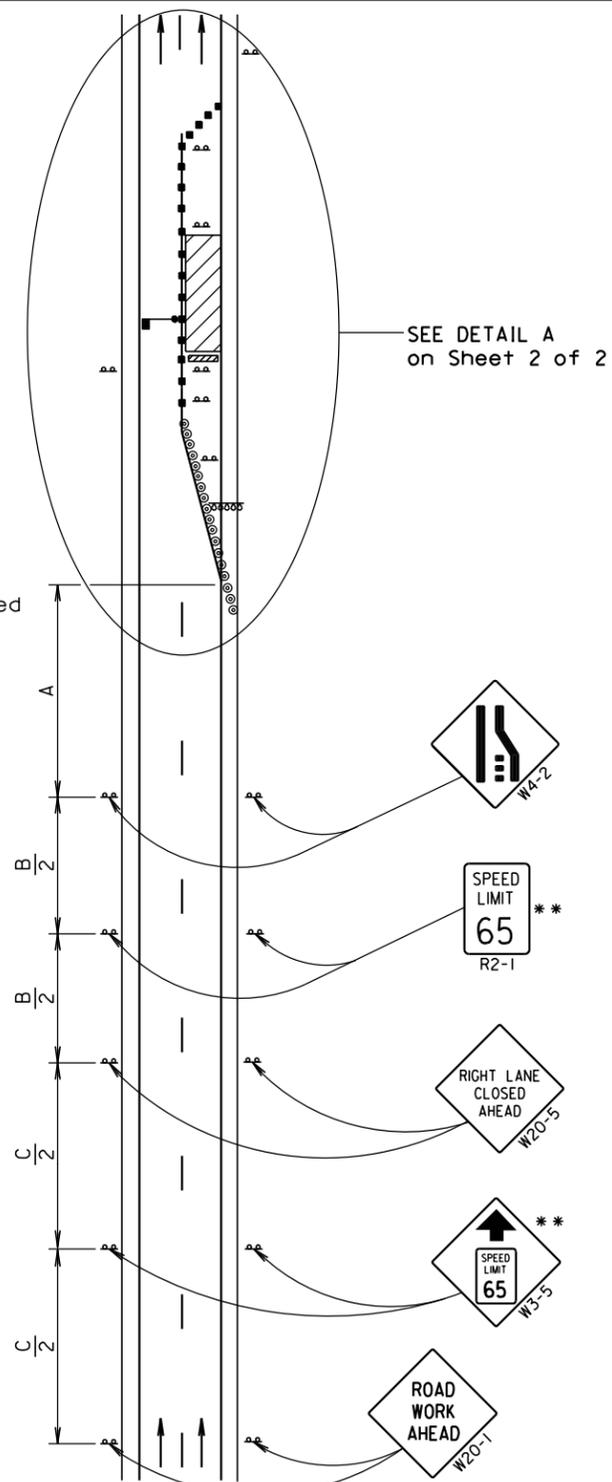
PLOT SCALE - 1:7000

| Posted Speed Prior to Work (M.P.H.) | Spacing of Advance Warning Signs (Feet) | | |
|-------------------------------------|---|------|------|
| | (A) | (B) | (C) |
| 0 - 30 | 200 | | |
| 35 - 40 | 350 | | |
| 45 - 50 | 500 | | |
| 55 | 750 | | |
| 60 - 65 | 1000 | | |
| | (A) | (B) | (C) |
| 70 - 80 | 1000 | 1500 | 2640 |

- ** Speed appropriate for location.
- ⊙ Reflectorized Drum
- Channelizing Device

ROAD WORK AHEAD sign is only required in advance of the first lane closure.

High speed is defined as having a posted speed limit greater than 45 mph.



SEE DETAIL A on Sheet 2 of 2

April 15, 2015

| | | |
|----------------------------------|--|-------------------------------|
| S D D O T | WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS | PLATE NUMBER 634.63 |
| | Published Date: 4th Qtr. 2015 | Sheet 1 of 2 |

| Posted Speed Prior to Work (M.P.H.) | Spacing of Channelizing Devices (Feet) (G) | Taper Length (Feet) (L) |
|-------------------------------------|--|-------------------------|
| 0 - 30 | 25 | 180 |
| 35 - 40 | 25 | 320 |
| 45 - 50 | 50 * | 600 |
| 55 | 50 * | 660 |
| 60 - 65 | 50 * | 780 |
| 70 - 80 | 50 * | 960 |

- * Spacing is 40' for 42" cones.
- ** Speed appropriate for location.
- *** Use speed limit designated for the condition when workers are present in the work space. Signs shall be covered or removed when workers are not present.

- Flagger (As Necessary)
- ⊙ Reflectorized Drum
- Channelizing Device

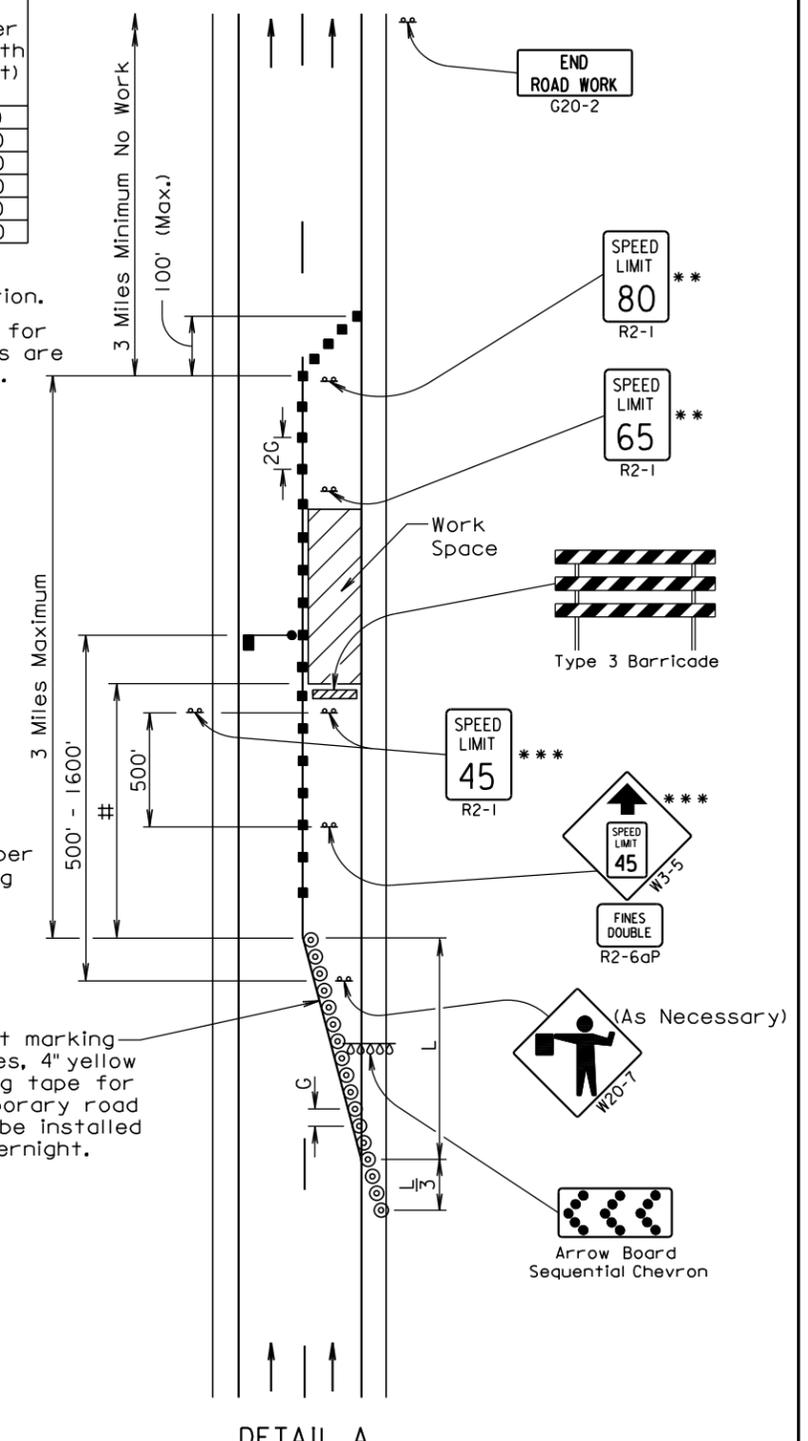
The Work Space shall be a minimum of 500' from the end of the taper.

The FLAGGER sign shall be used whenever there is a Flagger present.

The channelizing devices shall be 42" cones or drums.

42" cones may be used in place of the drums shown in the taper if setup will not be used during night time hours.

4" white temporary pavement marking tape for right lane closures, 4" yellow temporary pavement marking tape for left lane closures, or temporary road markers at 5' spacing shall be installed when the lane is closed overnight.



DETAIL A

April 15, 2015

| | | |
|----------------------------------|--|-------------------------------|
| S D D O T | WORK ZONE SPEED REDUCTION FOR INTERSTATE AND HIGH SPEED MULTI-LANE HIGHWAYS | PLATE NUMBER 634.63 |
| | Published Date: 4th Qtr. 2015 | Sheet 2 of 2 |

PLOTTED FROM - TRMLINT06

PLOT NAME - 3

FILE - ... \63423 SP & TC RAMP 2016 054E.DGN

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

| | | | |
|-----------------------------|---|-------------|-----------------------|
| STATE OF SOUTH DAKOTA | PROJECT IM-P 0020(158) & NH 0023(46) | SHEET 19 | TOTAL SHEETS 20 |
|-----------------------------|---|-------------|-----------------------|

SD 34 MINER COUNTY PCN 054E

| | | CONVENTIONAL ROAD | | | |
|---|---------------------|-------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT | | | | | 202 |

SD 42 McCOOK COUNTY PCN 054E

| | | CONVENTIONAL ROAD | | | |
|---|---------------------|-------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT | | | | | 202 |

SD 47 GREGORY COUNTY PCN 054E

| | | CONVENTIONAL ROAD | | | |
|---|---------------------|-------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT | | | | | 202 |

SD 50 BON HOMME & CHARLES MIX COUNTIES PCN 054K

| | | CONVENTIONAL ROAD | | | |
|---|---------------------|-------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT | | | | | 202 |

I 90 WEST SEGMENT BRULE & AURORA COUNTIES PCN 054E

| | | EXPRESSWAY / INTERSTATE | | | |
|---|----------------------------------|-------------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| R1-2 | YIELD | 1 | 60" x 60" | 25 | 25 |
| R2-1 | SPEED LIMIT __ | 4 | 36" x 48" | 12 | 48 |
| R2-6aP | FINES DOUBLE (plaque) | 2 | 36" x 24" | 6 | 12 |
| W3-5 | SPEED REDUCTION AHEAD (__ MPH) | 2 | 48" x 48" | 16 | 32 |
| W4-2 | LEFT or RIGHT LANE ENDS (symbol) | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 3 | 48" x 48" | 16 | 48 |
| W20-5 | LEFT or RIGHT LANE CLOSED AHEAD | 2 | 48" x 48" | 16 | 32 |
| E5-1 | EXIT GORE SIGN | 1 | 36" x 32" | 8 | 8 |
| G20-2 | END ROAD WORK | 1 | 48" x 24" | 8 | 8 |
| EXPRESSWAY / INTERSTATE TRAFFIC CONTROL SIGNS SQFT | | | | | 245 |

TYPE 3 BARRICADES

| ITEM DESCRIPTION | QUANTITY |
|-----------------------------------|----------|
| Type 3 Barricade, 8' Single Sided | 15 Each |

ARROW BOARDS

| ITEM DESCRIPTION | QUANTITY |
|--------------------|----------|
| Type C Arrow Board | 1 Each |

I 90 EAST SEGMENT McCOOK COUNTY PCN 054E

| | | EXPRESSWAY / INTERSTATE | | | |
|---|----------------------------------|-------------------------|-----------|---------------|------------|
| SIGN CODE | SIGN DESCRIPTION | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| R1-2 | YIELD | 1 | 60" x 60" | 25 | 25 |
| R2-1 | SPEED LIMIT __ | 4 | 36" x 48" | 12 | 48 |
| R2-6aP | FINES DOUBLE (plaque) | 2 | 36" x 24" | 6 | 12 |
| W3-5 | SPEED REDUCTION AHEAD (__ MPH) | 2 | 48" x 48" | 16 | 32 |
| W4-2 | LEFT or RIGHT LANE ENDS (symbol) | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 3 | 48" x 48" | 16 | 48 |
| W20-5 | LEFT or RIGHT LANE CLOSED AHEAD | 2 | 48" x 48" | 16 | 32 |
| E5-1 | EXIT GORE SIGN | 1 | 36" x 32" | 8 | 8 |
| G20-2 | END ROAD WORK | 1 | 48" x 24" | 8 | 8 |
| EXPRESSWAY / INTERSTATE TRAFFIC CONTROL SIGNS SQFT | | | | | 245 |

TYPE 3 BARRICADES

| ITEM DESCRIPTION | QUANTITY |
|-----------------------------------|----------|
| Type 3 Barricade, 8' Single Sided | 15 Each |

ARROW BOARDS

| ITEM DESCRIPTION | QUANTITY |
|--------------------|----------|
| Type C Arrow Board | 1 Each |

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS (CONTINUED)

| | | | |
|-----------------------------|------------------------------|-------|-----------------|
| STATE OF SOUTH DAKOTA | PROJECT | SHEET | TOTAL SHEETS |
| | IM-P 0020(158) & NH 0023(46) | 20 | 20 |

SD 251 GREGORY COUNTY PCN 054E

| SIGN CODE | SIGN DESCRIPTION | CONVENTIONAL ROAD | | | |
|-----------------------------------|---------------------|-------------------|-----------|------------------|------------|
| | | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD | | | | | 202 |
| TRAFFIC CONTROL SIGNS SQFT | | | | | |

SD 262 McCOOK COUNTY PCN 054E

| SIGN CODE | SIGN DESCRIPTION | CONVENTIONAL ROAD | | | |
|-----------------------------------|---------------------|-------------------|-----------|------------------|------------|
| | | NUMBER | SIGN SIZE | SQFT PER SIGN | SQFT |
| W3-4 | BE PREPARED TO STOP | 2 | 48" x 48" | 16 | 32 |
| W20-1 | ROAD WORK AHEAD | 4 | 48" x 48" | 16 | 64 |
| W20-4 | ONE LANE ROAD AHEAD | 2 | 48" x 48" | 16 | 32 |
| W20-7 | FLAGGER (symbol) | 4 | 48" x 48" | 16 | 64 |
| G20-2 | END ROAD WORK | 2 | 36" x 18" | 5 | 10 |
| CONVENTIONAL ROAD | | | | | 202 |
| TRAFFIC CONTROL SIGNS SQFT | | | | | |