

Bidding Documents

Project # MC25-05

Mill and Overlay

Minnehaha County, South Dakota

Bid Date: February 5, 2025



Prepared by:
Minnehaha County Highway Department
2124 E 60th Street North
Sioux Falls, SD
57104



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Warranty for Construction Activity

Notice to Bidders

MC25-05 Mill and Overlay

PROJECT DESCRIPTION

This project consists of an asphalt milling and asphalt overlaying of approximately 6.99 miles of 2-lane highway in Minnehaha County. Alternate 1 includes an additional 1.13 miles of mill and overlay and Alternate 2 could include another 1.00 miles of mill and overlay. Work consists of milling the existing surface using Relative AMG Milling, a 2" asphalt overlay, grinding rumble strips, flush sealing the rumble strips, and new pavement markings.

Online bids shall be received and accepted via the online electronic bid service through QuestCDN vBid online bidding, or by sealed paper copy by Minnehaha County Auditor's Office, 415 N Dakota Avenue, Sioux Falls, SD 57104, not later than **10:15 a.m. Wednesday, February 5th, 2025. Bids shall be publicly opened and read at the Auditor's Office at 10:30am.**

For this project, bids will be received and accepted via the online electronic bid service through QuestCDN vBid online bidding, or by sealed paper copy. Sealed paper copies to be received by Minnehaha County Auditor's Office, 415 N Dakota Avenue, Sioux Falls, SD 57104 Bidding information can be downloaded at www.questcdn.com. Reference QuestCDN project number 9497790 for a non-refundable charge of \$22.00. Contact QuestCDN Customer Support at 952-233-1632 or info@questcdn.com for assistance in membership registration, downloading digital project information and vBid online bid submittal. Project bid documents must be downloaded from QuestCDN which will add your company to the Planholder List and allow access to vBid online bidding for the submittal of your bid.

For sealed paper bids, specifications and proposal forms that must be used are also available at Minnehaha County Highway Department located at 2124 E 60th Street North, Sioux Falls, SD 57104. Bids submitted on forms other than the proposal supplied by the Minnehaha County Highway Department will be irregular and will not be considered.

Minnehaha County reserves the right to reject any or all bids, waive technicalities, and make award(s) as deemed to be in the best interest of the County.

Publish:

Dakota Scout on January 17, and January 24, 2025

Brandon Valley Journal on January 22, 2025

Garretson Gazette on January 23, 2025

Minnehaha Messenger on January 24, 2025

Construction Instructions to Bidders

ALL BIDS MUST BE PREPARED AND SUBMITTED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS. FAILURE TO COMPLY WITH ANY REQUIREMENT SHALL CAUSE THE BID TO BE CONSIDERED IRREGULAR AND SHALL BE GROUNDS FOR REJECTION OF THE BID.

1. **Completing the Bid Form:** All bids must be made on the bid forms provided within this document, except the bidder may attach a substitute computer-generated proposal form. Information shall be typed or printed in ink. The preparer must initial erasures and/or corrections. Each bid must be signed in ink by the bidder or authorized officer or submitted through QuestCDN.
2. **Use of Standard Specifications:** The South Dakota Department of Transportation's *Standard Specifications for Roads and Bridges* (current edition) and the current version of the South Dakota Department of Transportation Supplemental Specifications and Errata are hereby made a part of these specifications in their entirety unless otherwise revised, deleted, or supplemented herein. These documents are available for download: <http://sddot.com/business/contractors/Specs/default.aspx>.
3. **Price Discrepancies:** Any discrepancies between the bid unit price and extension shall be resolved in favor of the unit price. Incorrect extensions or totals will be corrected, and the corrected figures will be used in determining the low bidder.
4. **Firm Prices:** Unit prices awarded shall remain firm for the entire contract period.
5. **Quantities:** The quantity indicated for each item in the specifications is estimated only, and the County reserves the right to order less or more as dictated by actual needs.
6. **Excise Tax:** Construction services in South Dakota are subject to tax under SDCL 10-46A. Contractors shall include the applicable tax in their bid price for each item of work. Tax questions should be directed to the South Dakota Department of Revenue at 800-829-9188.
7. **Federal Tax ID Number:** Each bidder shall state its Federal Tax Identification Number on the line provided on the bid form.
8. **Bid Guaranty:** Each paper bid submitted must be accompanied by a certified check, cashier's check, or draft in the amount of 5% of the base bid and all added alternatives, drawn on a State or National Bank, made payable to Minnehaha County, or accompanied by a bond in the amount of 10% of the bid. Said bid bond must be issued by a surety authorized to do business in the State of South Dakota and made payable to Minnehaha County, as a guaranty that the bidder will enter into a contract with the County.

For each bid submitted through QUESTCDN, each bidder must pre-mail or hand-deliver a certified check, cashier's check, or draft in the amount of 5% of the base bid and all added alternatives, drawn on a State or National Bank, made payable to Minnehaha County to the Minnehaha County Auditor, 415 N. Dakota Avenue, Sioux Falls, South Dakota, 57104, so that the Auditor receives the check at or before the time the bid is submitted.

Alternatively, only if a bid is submitted through QUESTCDN, at the bid submission, the bidder may upload a copy of its bid bond in the amount equal to 10% of the electronic bid. Said bond must be issued by a surety authorized to do business in the State of South Dakota and made payable to Minnehaha County, as a guaranty that the bidder will enter into a contract with the purchasing agency. The County will not accept bid guaranties other than those referenced above.

The County will not accept bid guaranties other than those referenced above.

Bid guaranties of unsuccessful bidders shall be returned within 30 calendar days of the bid opening. Bid guaranty of the successful bidder shall be retained until the contract is executed and a performance guaranty (if applicable) has been submitted. If a successful bidder fails to enter into contract, the bid guaranty shall be forfeited to the County to compensate for administrative expenses of making a re-award or issuing a new request.

9. **Addenda:** The bidder shall acknowledge receipt of all addenda in the space provided in the bid proposal.
10. **Delivery of Proposals:** Each proposal shall be submitted in a sealed envelope with **Bid Proposal**, Project No., and "Due" date clearly printed on the front or via QuestCDN. When sent by mail, the sealed proposal shall be addressed as follows:

Due: February 5, 2025
Minnehaha County Auditor's Office
415 N Dakota Avenue
Sioux Falls, SD 57104
Bid Documents Enclosed

Proposals shall be filed prior to the time and at the place specified by the Notice to Bidders. Proposals received after the time for opening of bids will be returned to the bidder unopened.

All sealed bids must be received by the Minnehaha County Auditor's Office, 415 N. Dakota Avenue, Sioux Falls, SD 57104, or online via QuestCDN no **later than 10:15 a.m.** on the date of opening. Bids received after 10:15 a.m. or at a location other than the Minnehaha County Auditor's Office, will not be accepted. Bids will be publicly opened and read at the Auditor's Office at **10:30 a.m.** Bids delivered by Federal Express, U.S. Mail, or other delivery method, will be receipted as they arrive in the Auditor's Office. Except as otherwise provided by law, the record and each bid shall be open to public inspection. (SDCL 5-18A-5 (4))

11. **Withdrawal of Bids:** Any bid may be withdrawn by letter, in person or by electronic communications, before the time specified in the advertisement of the bid. Any bid may be modified by mail, FAX or electronic notice provided such notice is received no later than the time set for the opening of bids. The electronic notice or FAX cannot reveal the bid price but only the addition or subtraction to the bid price. An electronic notice or FAX may not be withdrawn after the opening of the bid and all FAX and electronic notices must be confirmed in writing before the awarding of the contract. (SDCL 5-18A-5 (6))
12. **Local Preference:** By virtue of statutory authority, preference will be given materials, products, and supplies found or produced within the state of South Dakota. Bidders resident in South Dakota shall be allowed a preference over the bid of any bidder from

any other state enforcing or having a preference for resident bidders, equal to such preference, except that bid awards where federal funds are involved must be made to the lowest responsive and responsible bidder without regard to state preferential bid provisions.

13. **Bid Results:** Results of bid openings will be available at the Minnehaha County Highway Department following tabulation of the bids. A report on the bid opening will be presented by Minnehaha County Highway Department at the first subsequent Commission meeting. At that time,

(a) the contract may be awarded to the low bidder,

(b) the contract may be awarded to the low conforming bid, if the Minnehaha County Highway Department has determined that the low bid does not meet specifications, or

(c) the Commission may appoint a committee to review the bids.

In instance (b), the State's Attorney will review the bid documents to verify that the low bid does not meet specifications, and the items of nonconformance shall be detailed in the Commission meeting minutes.

After an award has been made and signed by the Commission, all bid proposals and related information will be on file at the Minnehaha County Auditor's Office for public review. Minnehaha County Auditor's Office will do all formal and informal notifications of bid awards.

14. **Method of Award:** This request will be evaluated and a contract award made to the lowest responsive and responsible bidder deemed to be in the best interest of the County.

The County expressly reserves the right to waive technical irregularities in the bid or proposal of the lowest responsible bidder or offeror which irregularities do not alter the price, quality, or quantity of the services, or items of tangible personal property bid or offered. The County also expressly reserves the right to reject any and all bids if none received are satisfactory, or if it believes an agreement has been entered into by the bidders to prevent competition.

Alternates, if applicable, are prioritized and will be awarded in order as allowed by project budget. If Alternates are utilized, contract award will be made on lowest combined bid from a responsive and responsible bidder deemed to be in the best interest of the County.

If no firm and qualifying bids are received, the County may negotiate a contract for the best price if the specifications of the original bid are met. These negotiations will be documented within the Commission meeting minutes. (SDCL 5-18A-5 (9))

15. **Contract:** Within 30 days from the date of award, the successful bidder(s) shall enter into a contract by signature on separate contract documents which will be prepared by the County from information in this bid request and the successful bidder's response thereto. If any bidder fails to timely enter into the contract, the contract may be awarded to the next lowest bidder unless all bids or proposals are rejected. The defaulting bidder shall be responsible for the difference in price.

16. **Recovery from Defaulting Bidder:** If any successful bidder fails to fulfill the conditions of an awarded contract, the County may proceed to recover from the defaulting party whatever damages may have been sustained as a result of the default. The County shall have all remedies provided in the contract and provided by law.
17. **Performance and Payment Bond:** The contractor must furnish a performance and payment bond in an amount equal to the contract price. This bond guarantees the faithful performance and the payment for labor and materials by the contractor. (SDCL 5-21-1, 5-18A-36)

The requirement of a performance security may be waived by Minnehaha County when the bid submitted does not exceed \$25,000. (SDCL 5-21-1.1)

18. **Questions:** Questions pertaining to this bid request shall be directed to:

Minnehaha County
Attn: Jacob Maras
2124 E. 60th Street North
Sioux Falls, SD 57104
605-367-4316
jmaras@minnehahacounty.org

If the County deems it of general interest, the questions and answers shall be issued in a written addendum to each plan holder.

19. **Insurance:** The Contractor entering into any contract for services shall secure the insurance specified below and shall cause all its consultants/subcontractors to do likewise. All insurance shall be issued by an insurance company(s) acceptable to the County. The insurance specified in this policy directive may be in a policy or policies of insurance, primary or excess. Certificates of all required insurance shall be provided to the County upon execution of any agreement. Exceptions to this policy must be approved by the State's Attorney's Office.
- a. **Workers' compensation.** The policy shall provide the statutory limits required by South Dakota law. In addition, it shall provide Coverage B, Employer's Liability coverage of not less than \$1,000,000 each accident, \$1,000,000 disease-policy limits. The required limit may be met by excess liability (umbrella) coverage.
 - b. **Commercial general liability.** The policy shall provide occurrence form contractual, personal injury, bodily injury, and property damage liability coverage with limits of at least \$1,000,000 per occurrence, \$2,000,000 general aggregate, and \$2,000,000 aggregate products and completed operations. The required limit may include excess liability (umbrella) coverage. The policy shall name the County and its representatives as an additional insured. The insurance shall provide coverage on an "occurrence" basis "claims made. The policy shall be maintained for three years after completion of this contract.
 - c. **Automobile liability.** The policy shall cover all owned, non-owned, and hired automobiles, trucks, and trailers. The coverage shall be as broad as that found in the standard comprehensive automobile liability policy with limits of not less than \$1,000,000 combined single limit each occurrence. The required limit may include excess liability (umbrella) coverage.

- d. The Contractor will provide the County with at least 30 days' written notice of an insurer's intent to cancel or not renew any of the insurance coverage. The Contractor agrees to hold the County harmless from any liability, including additional premium due because of the Contractor's failure to maintain the coverage limits required.
 - e. The County's acceptance of a certificate of insurance does not mean that the County assumes responsibility for its validity. Nor does it mean that the County represents that the coverage and limits required are adequate to protect the Contractor.
20. **Conflicting federal rules govern on subsidized projects:** The letting of any public contract in connection with funds that are granted or advanced by the United States of America shall be subject to the effect, if any, of related laws of said United States and valid rules and regulations of federal agencies in charge, or governing use and payment of such federal funds. Bid awards when federal funds are involved must be made to the lowest responsive and responsible bidder without regard to state preferential bid provisions.
21. **Brand Name or Equal:** Whenever an article or material is defined by describing a proprietary product or by using the name of a manufacturer, the term "or equal" if not inserted shall be implied. The specified article or material shall be understood as indicating the type, function, minimum standard of design, efficiency, and quality desired and shall not be construed as to exclude other manufactured products of comparable quality, design, and efficiency.
- Requests for review of "or equal" articles or materials shall be submitted to the County in writing a minimum of seven calendar days prior to the bid opening for evaluation. The evaluation of bids and determination as to equality of the products shall be the responsibility of the County and will be based on information furnished by the bidder or identified in their bid, as well as other information reasonably available to the County.
- If deemed equal, written notification and/or an addendum will be issued prior to bid opening and will be public. Any request for review made less than seven calendar days prior to the bid opening may not leave sufficient time for evaluation, and in such case bidders should assume the proposed article or material will not be allowed. In addition, bidders should not assume other articles or materials will be allowed or substituted by change order following the bid award.
22. **Builders Exchanges:** The contract documents are on file at the Sioux Falls Builders Exchange, Sioux Falls, SD, and the Plains Builders Exchange, Sioux Falls, SD.
23. **Disallowance of Noncomplying Bid or Offer, Contracts in Violation Void:** Any bidder or offeror who fails to comply with the provisions of SDCL 5-18A, 5-18B, 5-18C, and 5-18D, or who provides any false information in the submission of any bid or offer, is subject to having their bid or offer disallowed by the County. Any contract entered into in violation of SDCL 5-18A, 5-18B, and 5-18C is null and void.

PROPOSAL FORM

Project #: **MC25-05 Mill and Overlay** Bid Date: **February 5, 2025**

The undersigned being familiar with all the details, conditions, and requirements hereby proposes to furnish all labor, tools, materials, and equipment necessary to fully complete the work for Minnehaha County of South Dakota as advertised in accordance with the specifications therefore furnished by the County for the following price(s):

Item No.	DOT Bid Item No.	Description	Unit	Quantity	Unit Price	Total Price
1	009E0010	Mobilization	LS	1		
2	320E7008	Grind 8" Rumble Strip or Stripe in Asphalt Concrete	Mile	10		
3	Special	Grind 4" Transverse Rumble Strip	Ft	1200		
4	Special	Grind 2-6" Rumble Stripes in Asphalt Concrete	Mile	5.00		
5	120E0100	Unclassified Excavation, Digouts	CY	174.8		
6	260E1010	Base Course	Ton	349.5		
7	260E3010	Gravel Surfacing	Ton	782		
8	330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	Ton	5.0		
9	Special	Scan and Model for Relative AMG Milling	LS	1		
10	320E1200	Asphalt Concrete Composite	Ton	17,869		
11	332E0010	Cold Milling Asphalt Concrete – ¾"	SqYd	125,224		
12	Special	Pavement Marking Paint, White	Gal	384		
13	Special	Pavement Marking Paint, Yellow	Gal	224		
14	Special	Dripline	Mile	6.99		
15	634E0010	Flagging	Hour	210		
16	634E0020	Pilot Car	Hour	112		
17	634E0110	Traffic Control Signs	SqFt	789		
18	634E0120	Traffic Control Miscellaneous	LS	1		
19	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mile	6.99		
20	634E0630	Temporary Pavement Marking	Mile	6.99		

Alternate 1:

Item No.	DOT Bid Item No.	Description	Unit	Quantity	Unit Price	Total Price
21	009E0010	Mobilization	LS	1		
22	320E7008	Grind 8" Rumble Strip or Stripe in Asphalt Concrete	Mile	2.26		
23	120E0100	Unclassified Excavation, Digouts	CY	28.3		
24	260E1010	Base Course	Ton	57		
25	260E3010	Gravel Surfacing	Ton	177		
26	330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	Ton	0.8		

27	Special	Scan and Model for Relative AMG Milling	LS	1		
28	320E1200	Asphalt Concrete Composite	Ton	2,291		
29	332E0010	Cold Milling Asphalt Concrete – ¾"	SqYd	16,573		
30	Special	Pavement Marking Paint, White	Gal	58		
31	Special	Pavement Marking Paint, Yellow	Gal	18		
32	Special	Dripline	Mile	1.13		
33	634E0010	Flagging	Hour	34		
34	634E0020	Pilot Car	Hour	19		
35	634E0110	Traffic Control Signs	SqFt	107		
36	634E0120	Traffic Control Miscellaneous	LS	1		
37	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mile	1.13		
38	634E0630	Temporary Pavement Marking	Mile	1.13		

Alternate 2:

Item No.	DOT Bid Item No.	Description	Unit	Quantity	Unit Price	Total Price
39	009E0010	Mobilization	LS	1		
40	120E0100	Unclassified Excavation, Digouts	CY	25		
41	260E1010	Base Course	Ton	50		
42	260E3010	Gravel Surfacing	Ton	60		
43	Special	Scan and Model for Relative AMG Milling	LS	1		
44	320E1200	Asphalt Concrete Composite	Ton	1,939		
45	332E0010	Cold Milling Asphalt Concrete – ¾"	SqYd	14,080		
46	Special	Pavement Marking Paint, White	Gal	51		
47	Special	Pavement Marking Paint, Yellow	Gal	16		
48	Special	Dripline	Mile	1.00		
49	634E0010	Flagging	Hour	34		
50	634E0020	Pilot Car	Hour	19		
51	634E0110	Traffic Control Signs	SqFt	139		
52	634E0120	Traffic Control Miscellaneous	LS	1		
53	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mile	1.00		
54	634E0630	Temporary Pavement Marking	Mile	1.00		

TOTAL BASE BID _____

ALTERNATE 1 BID _____

ALTERNATE 2 BID _____

If there is a discrepancy between unit bid prices and extensions, the unit bid price shall govern. This request will be evaluated and a contract award made to the lowest bid from a responsive and responsible bidder deemed to be in the best interest of the County and as allowed by budget.

Time of Performance: The Contractor will commence work under this contract and must fully complete the work by October 10th, 2025. Contractor further agrees to pay as liquidated damages the amount specified in Section 8.8 of the SDDOT Standard Specifications for Roads and Bridges (current edition), for each working day thereafter that resurfacing work remains uncompleted. The permanent marking paint must be completed within 21 calendar days of the completion of asphalt surfacing mat, but no sooner than 7 days post rumble flush seal. For each working day following the 21 calendar days where the application of permanent marking paint remains uncompleted, the Contractor will be assessed a \$100.00 per day penalty.

It is understood and agreed that the quantities of material to be furnished and work to be done may be varied on construction as may be deemed advisable by Minnehaha County. It is further understood and agreed that the County, at its option, may delete items from the contract.

The bid includes all local, state, and federal taxes that would affect the amount of the bid.

The undersigned acknowledges receipt of the following addenda to the plans and/or specifications (give number and date of each):

ADDENDUM NO. _____

DATED: _____

The undersigned submits herewith the bid security required by the Contract Documents.
It is understood that the right is reserved by Minnehaha County reject any or all bids, and it is agreed that this bid may not be withdrawn during the period of days provided in the Contract Documents.

A computer prepared and printed proposal form Yes ☐ No ☐
is attached to this proposal form.

Respectfully submitted,

By _____

Federal Tax I.D. Number

Fuel Tax License Number
(Contracts including highway work only)

Highway Contractor's License Number
(Contracts including highway work only)

Excise Tax Number

Sales Tax Number

OFFICIAL ADDRESS AND PHONE NUMBER:

Address

City, State, Zip

Phone Number

Fax

Email Contact

CONTRACT

Project No. MC25-05 Mill & Overlay

THIS AGREEMENT, made this _____ day of _____, 2025, by and between
Minnehaha County, South Dakota, (County), and
_____ (Contractor).

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned and the mutual covenants herein contained between the parties:

1. The Contractor will commence and complete the construction of the Installation of _____ (Project).
2. Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the Project described herein.
3. The Contractor will commence the work required by the Contract Documents, Project Plans and Specifications within 10 calendar days after the Notice to Proceed and will complete the same by _____ as specified in the Contract Documents unless the period for completion is modified by a Construction Change Order.
4. The Contractor agrees to perform all of the work described in the Contract Documents and comply with the terms therein for estimated sum of \$ _____ which is based on the estimated quantities and bid prices shown in the Bid Proposal Form. Actual quantities will be used to determine final payment.
5. The term "Contract Documents" means and includes the following, which are incorporated by this reference as if set forth herein in full and kept on file at the Minnehaha County Highway Department:
 - A. Bid Documents;
 - B. Construction Plans;
 - C. Standard Specifications; and
 - D. Addenda.
6. The County will pay the Contractor upon such terms and conditions and in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.
7. This Agreement is binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.
8. This Contract nor any of its incorporated documents, cannot be assigned by the Contractor without the express written permission and agreement of County executed with the same formality as this Agreement or by Resolution of the Minnehaha County Commission.

9. Non-appropriation of Funds: If funds are not budgeted or appropriated for any fiscal year, purchase under this Contract imposes no obligation on County and will become null and void except as to the purchases agreed upon for which funds have been appropriated or budgeted, and no right of action or damage will accrue to the benefit of any bidder, Contractor, its agents, assigns, or successors, for any further payments or other performance under the Contract.
10. Contractor agrees to indemnify and hold County, its officers, agents and employees, harmless from and defend against, any and all actions, suits, claims, liability, or damages, of any kind, arising from the services provided in this Agreement. Nothing herein requires Contractor to be responsible for or defend against claims or damages arising solely from acts or omissions of County, its officers, agents or employees.
11. Contractor will comply with all applicable local, state and federal laws, rules and regulations.
12. Contractor acknowledges that Contractor shall pay the South Dakota Department of Labor and Regulation all contributions and interest due under the provisions of SDCL Ch. 61-5 on wages paid to individuals employed in the performance of this Contract.
13. Entire Agreement: The parties acknowledge that the terms of this Agreement, including all attached and referenced Contract Documents, constitute the full and final agreement of the parties hereto, superseding all prior negotiations and all prior or subsequent oral agreements. Statements, promises or inducements not contained in this Agreement are not valid or binding. This Agreement may be amended only by written agreement and executed by each of the parties hereto.
14. Assignment. This Agreement cannot be assigned by either party without the prior written consent of the parties hereto and executed by each of the parties.
15. Governing Law. This Agreement is governed and construed in accordance with the laws of the State of South Dakota without regard to applicable principles of choice or conflicts of law that would cause application of the laws of any other jurisdiction. Venue is exclusively in a state court of competent subject matter jurisdiction in Minnehaha County, South Dakota. All parties hereto irrevocably submit to the personal jurisdiction of any such court, and expressly waive any objection to the venue of such court and any argument that such court is an inconvenient forum.
16. Termination: This Contract may be terminated by County at any time for any reason. County may extend this Contract as allowed by law, but in no event is County obligated to extend the Contract. If termination results due to a default by Contractor, in addition to all other available remedies, any payments due to Contractor at the time of termination may be adjusted to cover any additional costs to County because of Contractor's default.
17. Time is of the essence of this Contract.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials this Agreement in duplicate, each copy of which is deemed to be an original on the date first above written.

Minnehaha County:

Contractor:

SIGNATURE, TITLE

SIGNATURE, TITLE

DATE:_____

DATE:_____

ATTEST:

DEPUTY AUDITOR

SPECIAL PROVISIONS

Warranty for Construction Activity

1.0 TERM OF WARRANTY

1.1 UTILITY CONSTRUCTION ACTIVITY

The warranty shall cover the contract as to workmanship and materials for a period of two (2) years for the following utility construction:

- A. Storm sewer and sump pump collection systems.
- B. Sanitary sewer.
- C. Water main.
- D. Lights systems.
- E. Traffic signal system.

The Contractor shall maintain all trenches and backfill any settlement and provide and place any necessary base and/or surfacing needed due to trench settlement for the maintenance period, which shall run for two (2) years after the completion and acceptance of the system. The Contractor shall repair and/or replace all defective workmanship and materials, and correct all deficiencies noted in the system in a method approved by the Engineer.

County-furnished materials, unless otherwise specified, shall be warranted by the product manufacturer. This warranty shall apply to workmanship only when materials are furnished by the County.

1.2 SURFACE CONSTRUCTION ACTIVITY

The warranty shall cover the contract as to workmanship and materials for a period of one (1) year for the following construction activity:

- A. Grading—Subgrade and fill.
- B. Base course.
- C. Pavement
- D. Reinforced Concrete Box Culvert

The Contractor shall maintain any deficiencies in workmanship and materials for the maintenance period, which shall run for one (1) year after the completion and acceptance of the construction. The Contractor shall repair and/or replace all deficiencies noted in the construction in a method approved by the Engineer.

1.3 REVEGETATION ACTIVITY

Vegetative cover shall include seeding, sodding, shrubbery, and trees.

The warranty for vegetative cover shall be as follows:

- A. Seeding and Sodding. The County shall do a final inspection on the vegetative cover once the conditions of the contract have been met to determine if a satisfactory vegetative cover has been established. If it is determined that a satisfactory vegetative cover has been established, the County will accept the work as complete.

If the contract calls for a disturbed area to be dormant seeded or dormant sodded or if an area cannot be revegetated due to late fall weather conditions, the County will conduct the final inspection in the spring to determine if the area has a satisfactory vegetative cover prior to acceptance

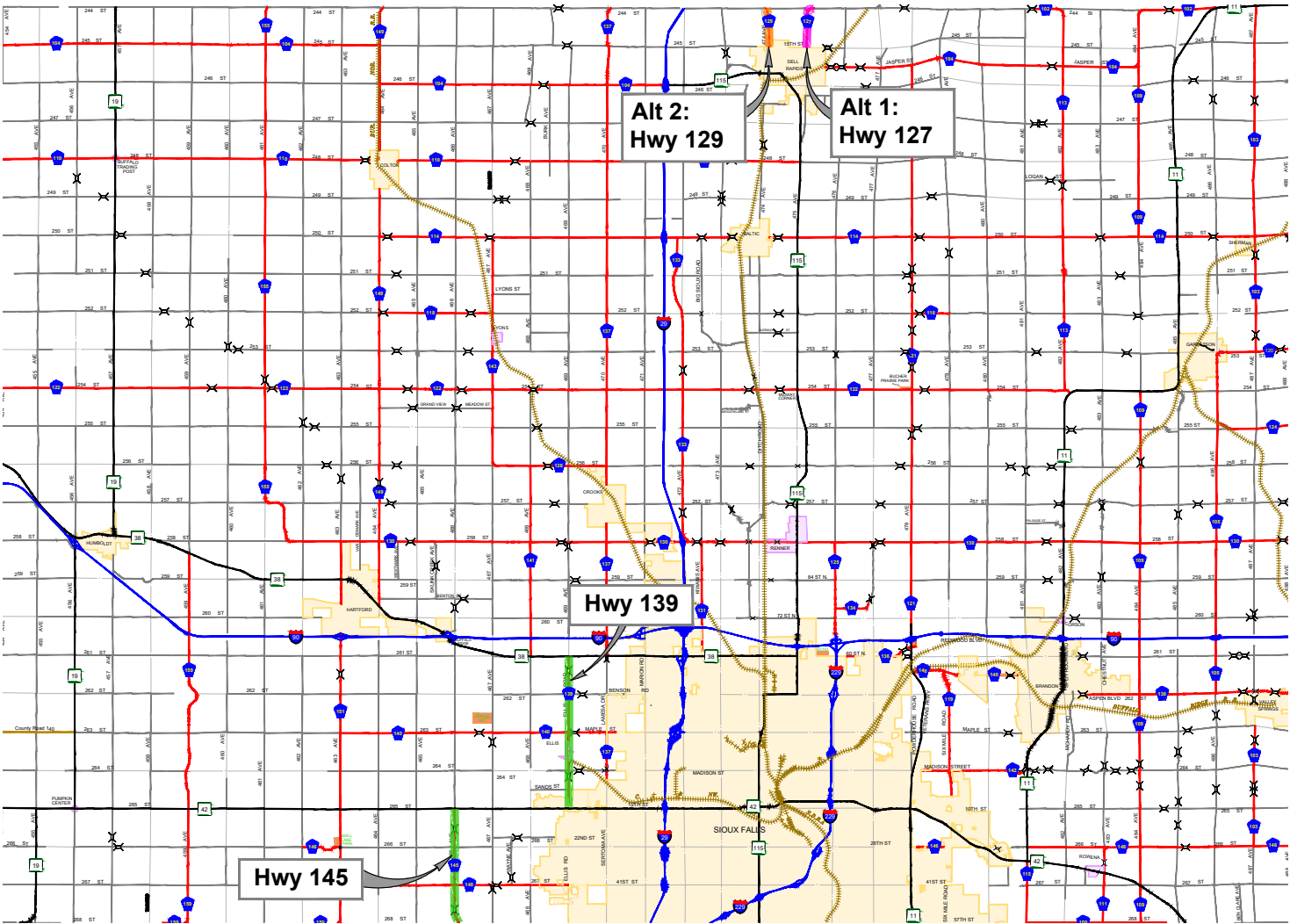
- B. Shrubby and trees shall be warranted for a period of one year from completion of the contract.

Minnehaha County Highway Department
Minnehaha County, South Dakota
Plans for Proposed Mill & Asphalt Overlay
Minnehaha County Highways
139 & 145
(6.99 Miles)

Alternate 1:
County Highway 127
(1.13 Miles)

Alternate 2:
County Highway 129
(1.00 Miles)

Project No. MC25-05_Mill & Overlay



Location Map

Index of Sheets

SECTION A	TITLE SHEET, LEGEND, CONTROL DATA
SECTION B	ESTIMATE OF QUANTITIES AND GENERAL NOTES
SECTION C	TYPICAL SECTIONS
SECTION E	TRAFFIC CONTROL
SECTION T	STANDARD PLATES



Minnehaha County
Minnehaha County Highway Department
2124 E 60th Street North
Sioux Falls, South Dakota 57103

Approved

Highway Superintendent _____ Date _____



I, Jenna B. Girard, hereby certify that these plans were prepared by me, or under my direct supervision and that I am a duly registered engineer under the laws of the State of South Dakota.

Jenna B. Girard _____ S.D. No. 16806 _____ Date _____

This map shows the project area for Highway 139 in Lamesa, NM. The project is highlighted in green along Ellis Road. Key features include:

- Highways:** Highway 139 (blue shield), Highway 140 (blue shield), and Highway 137 (blue shield).
- Streets:** 467 AVE, 262 ST, 468 AVE, 264 ST, SANDS ST, 12TH ST, BENSON RD, MARION RD, LAMESA DR, MAPLE ST, and MAD RIVER RD.
- Project Boundaries:**
 - Begin Project:** Start where DOT ROW ends and Hwy 139 begins.
 - End Project:** End where concrete begins just south of 12th St.
- Other Features:** A gravel pit is located near 467 AVE and 262 ST. A creek is shown on the right side of the map.



MC25-05_M&O
HIGHWAYS 139 & 145
MILL & OVERLAY

LOCATION DETAILS	
DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JBG	DATE: 11-13-2025
CHECKED BY: JEM	BY: DATE:
REVISIONS:	BY: DATE:

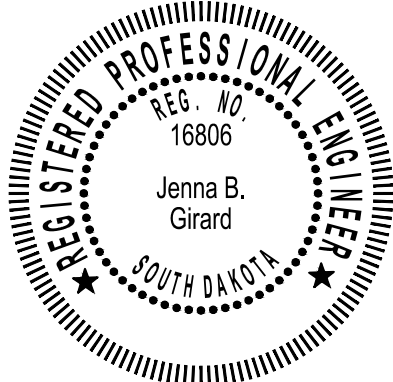
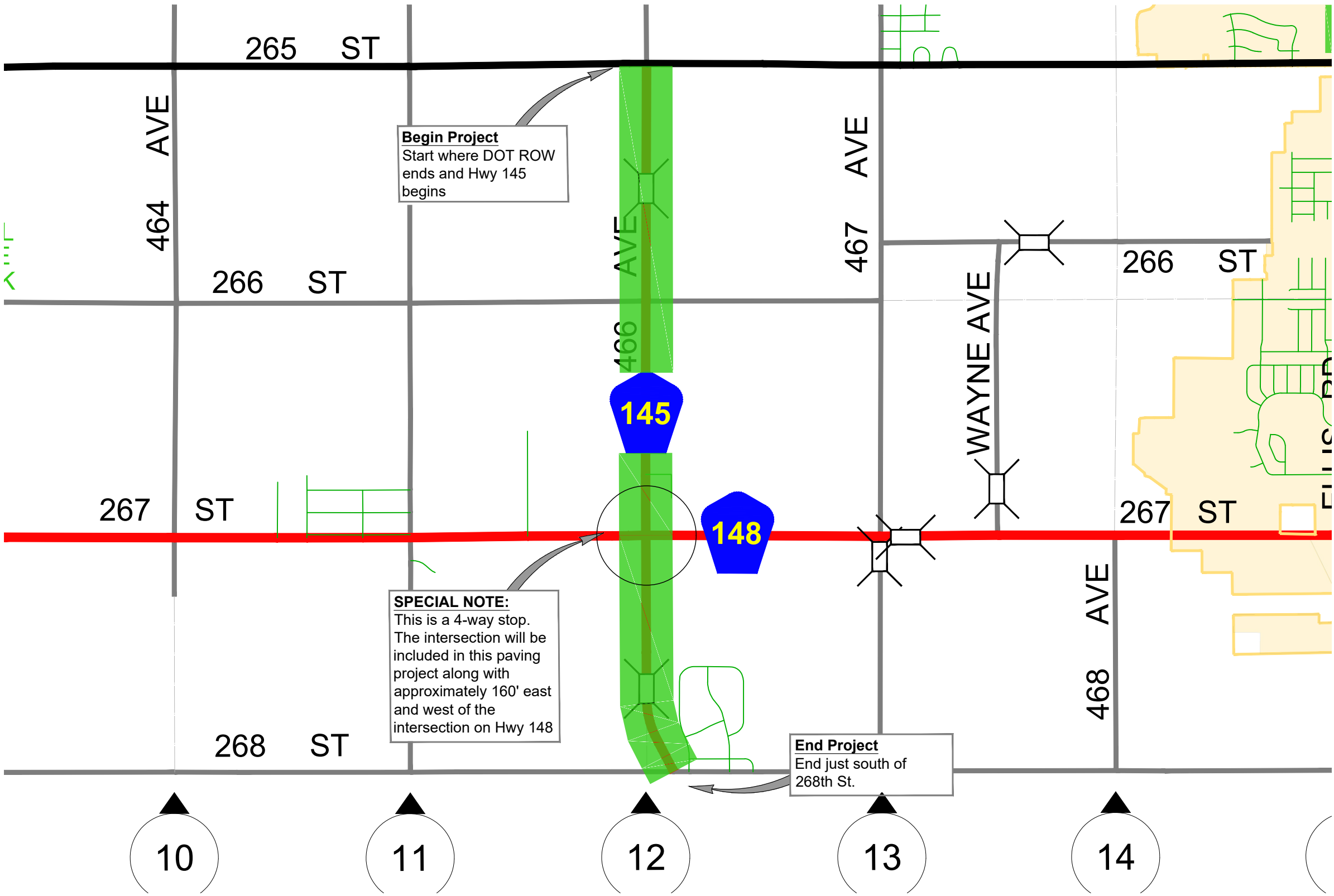
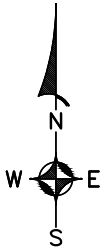


MINNEHAHA
COUNTY

SHEET NO.

A2

LOCATION DETAIL - HWY 145



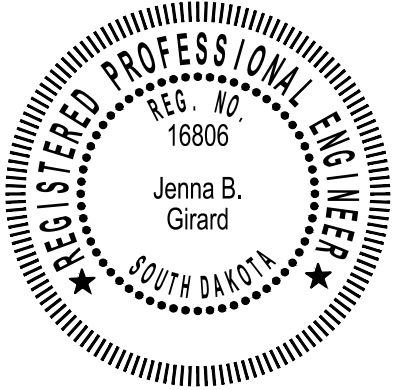
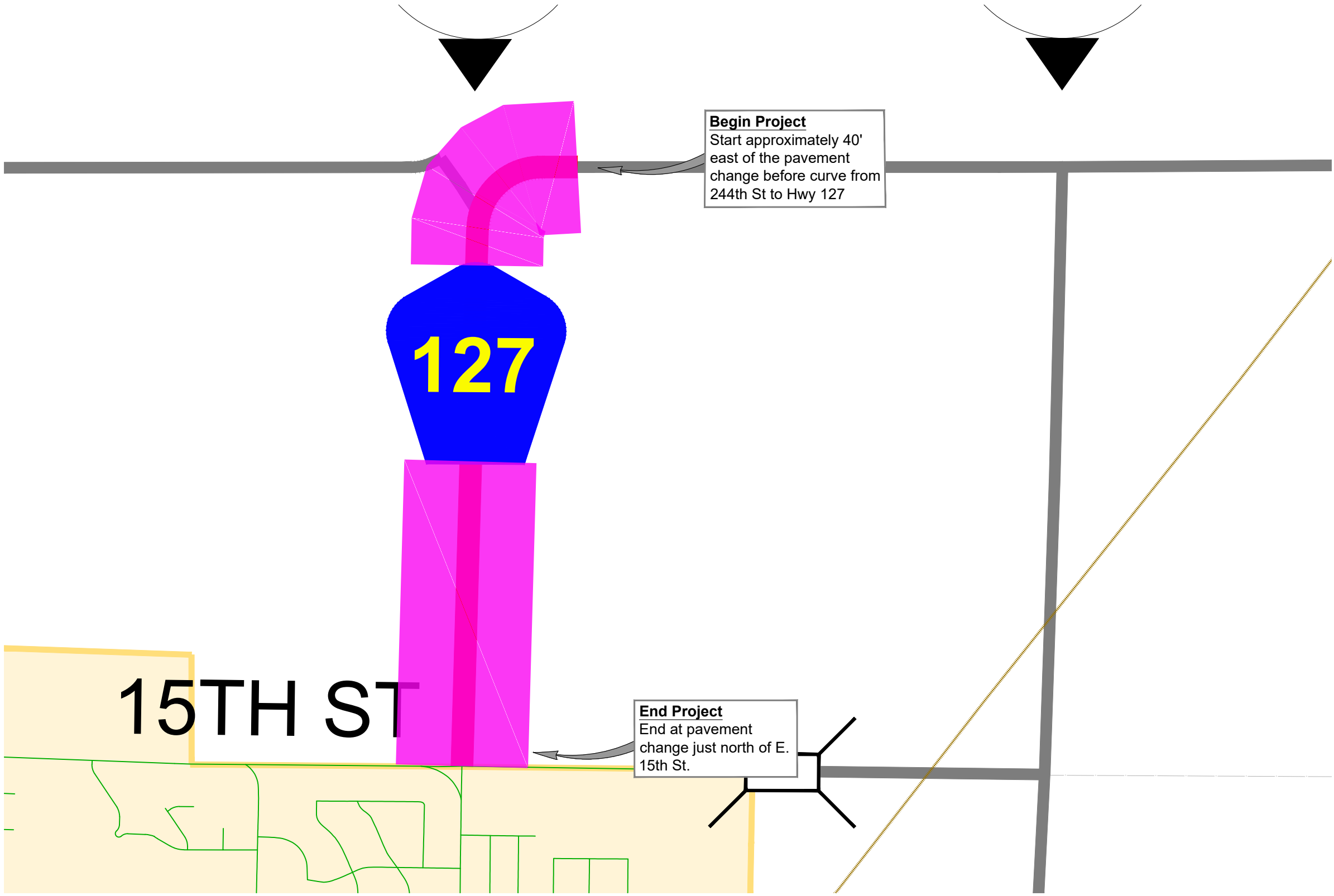
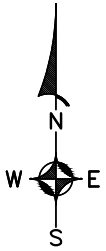
MC25-05_M&O
HIGHWAYS 139 & 145
MILL & OVERLAY

LOCATION DETAILS

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_This.dwg
DRAWN BY: JEM	CHECKED BY: JEM
DATE: 1-13-2025	BY: DATE:
REVISIONS:	BY: DATE:



ALTERNATE 1 LOCATION DETAIL - HWY 127

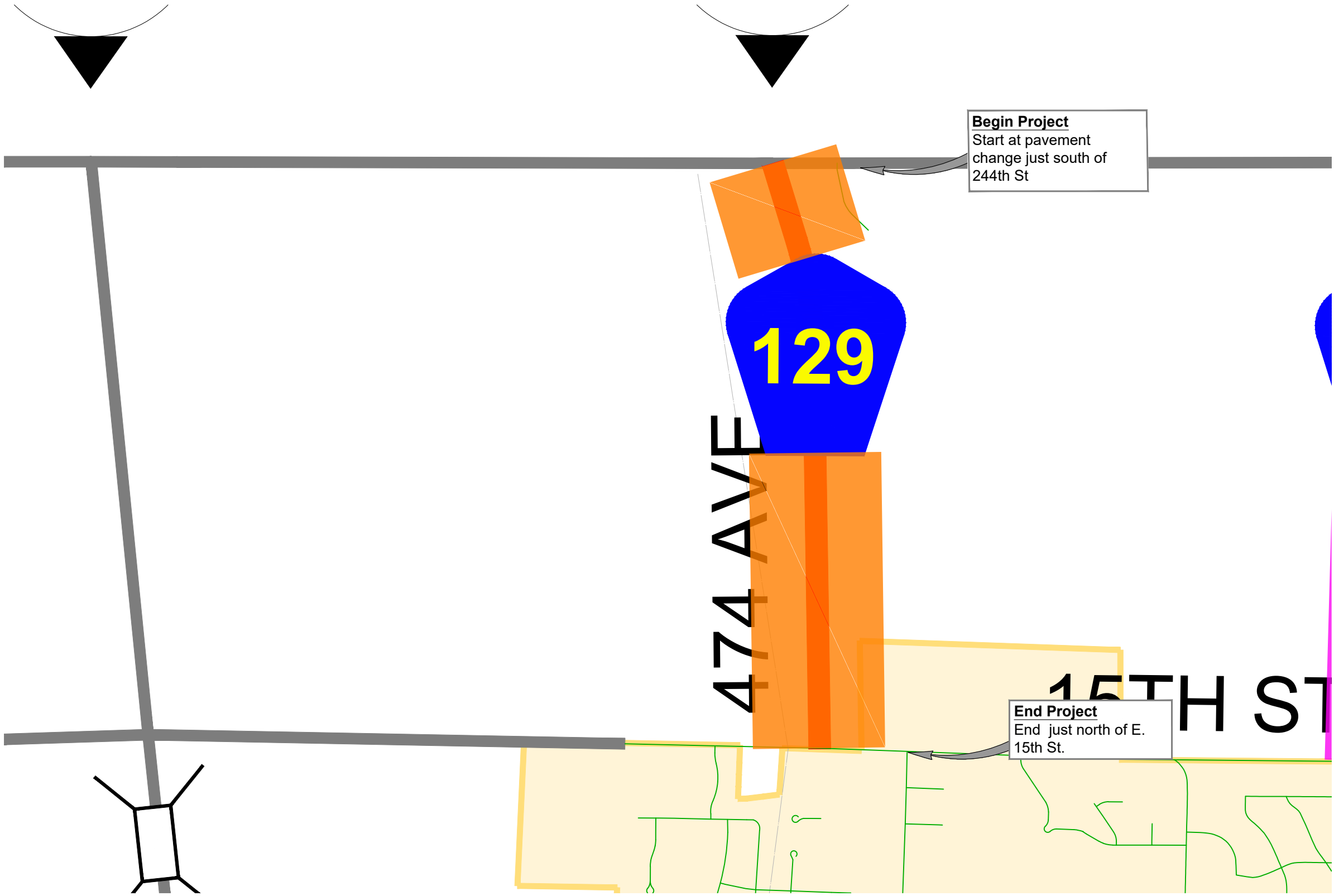
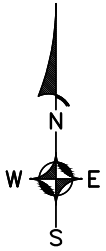


MC25-05_M&O
ALTERNATE 1: HIGHWAY 127
MILL & OVERLAY

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JEG	DATE: 1-13-2025
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ALTERNATE 1 LOCATION DETAIL - HWY 129



Begin Project
Start at pavement
change just south of
244th St

End Project
End just north of E.
15th St.



MC25-05_M&O
ALTERNATE 2: HIGHWAY 129
MILL & OVERLAY

LOCATION DETAILS

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JEG	DATE: 1-13-2025
CHECKED BY: JEM	BY: DATE:
REVISIONS:	BY: DATE:



ESTIMATE OF QUANTITIES

Item No.	DOT Bid Item No.	Description	Unit	Quantity
1	009E0010	Mobilization	LS	1
2	320E7008	Grind 8" Rumble Stripe in Asphalt Concrete	Mile	10
3	SPECIAL	Grind 4" Transverse Rumble Strip	Ft	1200
4	SPECIAL	Grind 2-6" Rumble Stripes in Asphalt Concrete	Mile	5.00
5	120E0100	Unclassified Excavation, Digouts	CY	174.8
6	260E1010	Base Course	Ton	349.5
7	260E3010	Gravel Surfacing	Ton	782
8	330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	Ton	5.0
9	SPECIAL	Scan and Model for Relative AMG Milling	LS	1
10	320E1200	Asphalt Concrete Composite	Ton	17,869
11	332E0010	Cold Milling Asphalt Concrete - 3/4"	SqYd	125,224
12	SPECIAL	Pavement Marking Paint, White	Gal	384
13	SPECIAL	Pavement Marking Paint, Yellow	Gal	224
14	SPECIAL	Dripline	Mile	6.99
15	634E0010	Flagging	Hour	210
16	634E1205	Pilot Car	Hour	112
17	634E0110	Traffic Control Signs	SqFt	789
18	634E0120	Traffic Control Miscellaneous	LS	1
19	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mlle	6.99
20	634E0630	Temporary Pavment Markings	Mile	6.99



MC25-05_M&O
HIGHWAYS 139 & 145
MILL & OVERLAY

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JEM	DATE: 1-13-2025
CHECKED BY: JEM	BY: _____
REVISIONS:	DATE: _____
	BY: _____



SHEET NO.

B1

ALTERNATE 1: ESTIMATE OF QUANTITIES

Item No.	DOT Bid Item No.	Description	Unit	Quantity
21	009E0010	Mobilization	LS	1
22	320E7008	Grind 8" Rumble Stripe in Asphalt Concrete	Mile	2.26
23	120E0100	Unclassified Excavation, Digouts	CY	28.3
24	260E1010	Base Course	Ton	57
25	260E3010	Gravel Surfacing	Ton	177
26	330E0210	SS-1h or CSS-1h Asphalt for Flush Seal	Ton	0.8
27	SPECIAL	Scan and Model for Relative AMG Milling	LS	1
28	320E1200	Asphalt Concrete Composite	Ton	2,291
29	332E0010	Cold Milling Asphalt Concrete - 3/4"	SqYd	16,573
30	SPECIAL	Pavement Marking Paint, White	Gal	58
31	SPECIAL	Pavement Marking Paint, Yellow	Gal	18
32	SPECIAL	Dripline	Mile	1.13
33	634E0010	Flagging	Hour	34
34	634E1205	Pilot Car	Hour	19
35	634E0110	Traffic Control Signs	SqFt	107
36	634E0120	Traffic Control Miscellaneous	LS	1
37	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mlle	1.13
38	634E0630	Temporary Pavment Markings	Mile	1.13



MC25-05_M&O
ALTERNATE 1: HIGHWAY 127
MILL & OVERLAY

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JEM	DATE: 1-13-2025
CHECKED BY: JEM	BY: _____
REVISIONS:	DATE: _____
	BY: _____



SHEET NO.

B2

ALTERNATE 2: ESTIMATE OF QUANTITIES

Item No.	DOT Bid Item No.	Description	Unit	Quantity
39	009E0010	Mobilization	LS	1
40	120E0100	Unclassified Excavation, Digouts	CY	25
41	260E1010	Base Course	Ton	50
42	260E3010	Gravel Surfacing	Ton	60
43	SPECIAL	Scan and Model for Relative AMG Milling	LS	1
44	320E1200	Asphalt Concrete Composite	Ton	1,939
45	332E0010	Cold Milling Asphalt Concrete - 3/4"	SqYd	14,080
46	SPECIAL	Pavement Marking Paint, White	Gal	51
47	SPECIAL	Pavement Marking Paint, Yellow	Gal	16
48	SPECIAL	Dripline	Mile	1.00
49	634E0010	Flagging	Hour	34
50	634E1205	Pilot Car	Hour	19
51	634E0110	Traffic Control Signs	SqFt	139
52	634E0120	Traffic Control Miscellaneous	LS	1
53	634E0320	Temporary Flexible Vertical Markers (Tabs)	Mlle	1.00
54	634E0630	Temporary Pavment Markings	Mile	1.00



MC25-05_M&O
ALTERNATE 2: HIGHWAY 129
MILL & OVERLAY

DESIGNED BY: JEM	ACAD FILE: MC25-05_M&O_Title.dwg
DRAWN BY: JEM	DATE: 1-13-2025
CHECKED BY: JEM	BY: _____
REVISIONS:	DATE: _____
	BY: _____



SHEET NO.

B3

DESCRIPTION OF WORK

This project consists of the mill and overlay of approximately 6.99 miles of the following segments of County Highways; County Highway 139 from SD 38 to SD 42, and County Highway 145 from SD 42 to 268th Street. This project also includes two alternates that may or may not be awarded. Alternate 1 consists of 1.13 miles of mill and overlay on County Highway 127 from 244th Street to 15th Street and Alternate 2 consists of 1.0 miles of mill and overlay on County Highway 129 from 244th Street to 15th Street. Work consists of milling the existing surfacing, paving 2” of asphalt concrete composite, rumble striping, flush sealing the rumble stripes, and new paint striping.

TIME PROVISIONS

The bidder will commence work under this contract and fully complete the project by October 10, 2025. Bidder further agrees to pay as liquidated damages the amount specified in Section 8.8 of the SDDOT Standard Specifications for Roads and Bridges (current edition), for each working day thereafter that resurfacing work remains uncompleted.

ORDER OF PRECEDENCE

If conflicts arise, the order of precedence of the contract documents shall be as follows: Plans over Special Provisions over Supplemental Specifications over South Dakota Department of Transportation Supplemental Specifications and Errata over South Dakota Department of Transportation Standard Specifications for Roads and Bridges.

SEQUENCE OF OPERATIONS

- Install and maintain all traffic control devices.
- Milling of ¾” existing asphalt concrete surface.
- Application of temporary pavement markings.
- Application of tack and asphalt concrete.
- Application of temporary pavement markings.
- Rumble Striping of edgelines.
- Application of Flush Seal over rumble striping
- Application of recessed permanent roadway striping.
- Project clean up.

SPECIFICATIONS TO BE USED

The most current edition of the South Dakota Department of Transportation Standard Specifications for Roads and Bridges with Supplemental Specifications and Errata and required provisions, supplemental specifications, and/or special provisions as included in the Project Manual are hereby made a part of these specifications in its entirety unless otherwise revised, deleted, or supplemented herein.

CONSTRUCTION AREAS

Care shall be taken by the Contractor such that private property located adjacent to the project is not damaged during construction operations. Damage to private property caused by the carelessness of the Contractors’ forces shall be repaired or replaced at the Contractors’ expense and to the satisfaction of the Inspector and the property owner. This includes cleanup of waste asphalt, oil, or other products associated with asphalt pavement construction.

Parking of employees vehicles within the Right-of-Way will not be permitted. Contractor employees shall mobilize to a location off the Right-of-Way and arrive in a minimum number of vehicles necessary to perform the work.

Indiscriminate driving and parking of vehicles on the slopes will not be permitted. Any damage to the vegetation and embankment resulting from indiscriminate actions shall be repaired and/or restored to the Engineer’s satisfaction at the Contractor’s expense.

SUBMITTALS

The following documents shall be submitted by the Contractor:

1. Construction Schedule
2. Asphalt/Concrete job mix formula
3. Certification of Compliance for Asphalt
4. Materials Certifications
5. Manufacturer’s Experience

SHOULDERS

Vegetation and accumulated material adjacent to the existing mat edge shall be removed to the satisfaction of the Engineer prior to placement of the asphalt material

This shoulder work shall be considered incidental to other items; therefore, separate measurement and payment will not be made.

UNCLASSIFIED EXCAVATION, DIGOUTS

Included in the estimate of quantities are 25 Cubic Yards per mile of “Unclassified Excavation, Digouts” for the necessary removal. Areas of removal shall be determined by the Engineer. Asphalt sawing and removals are incidental and are to be included in the bid price for “Unclassified Excavation, Digouts.”

Backfill shall be Base Course paid for at the contract unit price, placed, and compacted to 97% of the maximum dry density as determined by SD 104, Method 4 and SD 105 or SD 114.

BASE COURSE

Base Course shall conform to the requirements of the Standard Specifications and shall be furnished by the contractor. Cost for water for compaction is incidental to the bid item “Base Course”. Optimum moisture content +/- 3% shall be required at the time of compaction unless otherwise directed by the Engineer.

Base course is estimated at 50 tons per mile, and shall be used for replacement of dig outs as required by the Engineer.

SCAN AND MODEL FOR RELATIVE AMG MILLING

The Contractor shall perform an existing conditions initial scan before construction work starts on the project and an as-built scan at the completion of the project. Existing Conditions Scan (Model of Record): Prior to beginning construction on the site, Contractor shall scan the existing roadway and create a model surface that is accurate within ±0.02 ft in the vertical direction. From this initial scan, the Contractor shall create a Milling Surface Model that is to be used by their Relative Automated Machine Guidance Milling Method and achieves the desired results as called for in the **Cold Milling Asphalt Concrete** section of these plan notes. As-built Scan: Following completion of the project, the Contractor shall perform an as-built scan of the roadway using the same methods and equipment used for the Existing Conditions Scan above. The Contractor shall provide the County in both a graphical and tabular method the comparison of pre-construction pavement cross slopes with final as-built pavement cross slopes along the entire project corridor. A surface, in context of 3D engineering models, represents an element of design such as existing ground, final grading, milling, or pavement in a 3D workspace. All elements of the surface are spatially oriented to one another. Upon completion of each of these models, the Contractor shall provide them to the County at least **2 weeks prior** to the milling operations. All raw scan data for any scans shall also be provided to the County.

Payment for completing the scans and surface models shall be covered under the Lump Sum bid item “Scan and Model for Relative AMG Milling”. Payment will include all labor, materials, and equipment to perform the scans, create the 3D surface model(s), provide the existing to as-built cross slope comparison, and all incidental items required to complete the “Scan and Model for Relative AMG Milling”.

COLD MILLING ASPHALT CONCRETE

Cold milling asphalt concrete shall be done according to the typical sections. The depth of width of milling may need to be adjusted due to rutting, maintenance patches, or roadway irregularities. Additional asphalt concrete shall be milled in these areas to provide a uniform typical section from centerline to the edge of the finished shoulder at 2% on all roadways when done (except in curves). These areas may also include farm & field entrances and intersecting roads. Any additional cost associated with this additional cold milling shall be incidental to the contract unit price per square yard for “Cold Milling Asphalt Concrete”. No adjustments in quantity or price will be made.

Cold milling asphalt material shall be completed throughout entire project, at a ¾” minimum depth. Actual depths at centerline and shoulder may vary. Several super-elevated curves occur on the project. The County will mark the beginning and end of the super-elevated curves and milling through the curve shall best match the existing cross-slope on the roadway. All paved intersections are to be milled so as to provide a smooth transition to the existing pavement approximately 75’. All paved driveways and township road intersections shall be milled to provide a smooth transition from the edge of the mainline pavement to the driveway

COLD MILLING ASPHALT CONCRETE CONT.

All material from milling operations on County Highway 127 and 129 shall be transported to the County Site at the northwest corner of the intersection of W. 1st ST. and N. Main Ave., in Colton, by the contractor. All material from milling operations on County Highways 139 and 145 shall be transported to the County Pit at the intersection on 467th Avenue just north of 263rd St. This site is secured and a key will need to be obtained from the County Highway office. This key must also be returned at the completion of hauling. Contractor is responsible for supplying equipment and operators at each stockpile location to pile the millings. Stockpiles are to match existing piles to the satisfaction of the Engineer.

The whole width of the road will not be milled on County Highway 145. The existing roadway width averages 42’6” wide, but we are are only milling and re-paving two foot outside of the white line (28’ total, 14” each side of the yellow). Extra milling is necessary at intersection locations in order to provide a smooth transition from new mat to the newly paved intersection approach. This is accounted for in the milling quantities and will be marked on site.

The milling of the roadway shall be paid per plan quantity. The milling is estimated at 125,2240 sq yds. Alternate 1 contains an additional 16,573 sq. yds and Alternate 2 contains and additional 14,080 sq. yds. The computed quantities shown in the estimate of quantities shall be the basis of payment unless changes are directed by the Engineer.

MILLING START/STOP TRANSITIONS

Contractor must transition from the 2” mill at the road start location to the desired ¾” mill depth or from the ¾” mill to 2” mill at road stop locations within 75’. Start and Stop locations will be marked in the field by the on-site inspector. Refer to page C1 for detailed drawing.

ASPHALT CONCRETE COMPOSITE

Placement of asphalt concrete shall be by self-propelled pavers. Asphalt concrete pavement placement and compaction equipment and methods shall meet requirements as set forth in SDDOT Standard Specifications Section 320 and the following notes.

Compaction of asphalt concrete shall be by the specified density method. The minimum density requirement is 92% (Rice Method) of specified density or to the satisfaction of the Engineer.

Asphalt concrete shall conform to the SDDOT Specifications for Class G, Asphalt Concrete. The top lift shall conform to Class G-2 for the mineral aggregate specifications. All lower lifts shall conform to Class G-1 or G02 for the mineral aggregate specifications unless otherwise noted or by direction of the Engineer. The surface course shall not exceed 2” in thickness when laid and compacted.

The supplier is required to run daily production control samples on aggregate material. All production control test results shall be made available to the County upon request.

A maximum of 20% (by weight) of Recycled Asphalt Pavement (RAP) will be allowed in the asphalt concrete composite mix. RAP stockpiles containing concrete chunks, grass, dirt, wood, metal, coal tar, or other foreign or environmentally restricted materials shall not be used. No other recycled material will be allowed.



MC25-05 M&O
MILL & OVERLAY
HIGHWAYS 139, 145, 127, & 129

NOTES
DESIGNED BY: JBG
DRAWN BY: ATW
CHECKED BY: JBG
ACAD FILE: GENERAL NOTES
DATE: 01-13-2025
BY:
DATE:
REVISIONS:



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B4

ASPHALT CONCRETE COMPOSITE CONT.

The asphalt cement used in the mixture shall be Performance Graded AASHTO Designation: PG58-34 and shall conform to the current SDDOT Specifications. Certificates of compliance will be required on the performance graded asphalt binder. The supplier shall furnish a job mix formula for approval prior to asphalt production. All job mix designs shall have a laboratory designation number that can be printed on all weight tickets that correspond to the type of asphalt concrete mix. The Engineer may accept the mixture on the basis of the certificate of compliance, job mix formula and visual inspection or may test the mixture for specification compliance.

The supplier shall furnish a job mix formula for approval prior to asphalt production. All job mix designs shall have a laboratory designation number that can be printed on all weigh tickets that correspond to the type of asphalt concrete mix, binder designation, percent new asphalt binder and percent binder from RAP. The Engineer may accept the mixture on the basis of the certificate of compliance, job mix formula and visual inspection or may test the mixture for specification compliance.

The Engineer may accept the mixture on the basis of the job mix formula, certificates of compliance and visual inspection or may test the mixture for specification compliance. All production processes and materials supplied on this contract shall be subject to inspection by the County. Materials not meeting specification will be rejected and replace at the supplier's expense.

Tack coat (SS-1h or CSS-1h) shall be applied between each lift of asphalt and along existing concrete and asphalt faces and any areas as determined by the Engineer at the rate of 0.10 gal./sq. yd. Tack coat shall be incidental to Asphalt Concrete Composite.

In low areas and areas of rutting, the Contactor will be required to skim coat the areas to bring it to the approximate grade of the surrounding asphalt. The skim coat shall be cooled and tack coated prior to overlaying the surface.

Seasonal Limitations:

- 1. Temperature for lower lifts shall be, at minimum, 35 degrees Fahrenheit, with a forecast of holding or rising temperatures.
- 2. Temperatures for top lift shall be, at minimum, 40 degrees Fahrenheit, with a forecast of holding or rising temperatures.
- 3. The Engineer may require tarping of loads during cool or windy conditions.

DRIVEWAYS, APPROACHES AND INTERSECTING ROADS

Driveways to residences along the route shall be paved to the right-of-way in like-width as the current driveway and 2" of compacted depth. The right-of-way will be marked in the field by the Project Engineer/Project Inspector. There are 31 residential driveways as part of the project. Alternate 1 includes an additional 5 residential driveways and Alternate 2 includes 0 residential driveways. Quantity for each driveway was added to the total asphalt composite quantity.

At locations of approaches to farm fields and other non-residential driveways the pavement shall be widened by 2' simultaneously with the mainline paving operation. There are approximately 33 field approaches as part of the project. Alternate 1 contains an additional 9 field approaches and Alternate 2 contains an additional 4 field approaches. Quantity for each approach was added to the total asphalt composite quantity.

Intersection township (gravel) roads along the project shall be paved to the right-of-way in like-width as the township road with radii no smaller than the existing. There is a total of 10 intersecting road tie-ins to the mainline pavement. Alternate 1 contains 1 intersecting road tie-ins and Alternate 2 contains 0 intersecting road tie-ins. Quantity for each intersection was added to the total asphalt composite quantity.

Prior to paving; driveways, approaches and township roads shall be shaped to the satisfaction of the Engineer.

RATES OF MATERIALS

The Estimate of Quantities is based on the following quantities of materials per mile. All materials are to be furnished in place by the Contractor. Emulsified Asphalt SS-1h or CSS-1h is to be placed at the rate of 0.10 Gal./Sq.Yd.

TACK COAT (for information purposes only, tack coat is incidental)

Hwy 139 (30' Width)
SS-1h or CSS-1h 29.11 Tons

Hwy 145 (28' Width)
SS-1h or CSS-1h 19.62 Tons

Intersecting Roads/Approaches
SS-1h or CSS-1h 4.11 Tons

CLASS G ASPHALT CONCRETE COMPOSITE

Hwy 139 (30' Width)
Class G Asphalt Concrete 9,464.0 Tons

Hwy 145 (28' Width)
Class G Asphalt Concrete 6,376.9 Tons

Intersecting Roads/Approaches
Class G Asphalt Concrete 1,336.8 Tons

FLUSH SEAL

Hwy 139 (1.5' Edge Line Width & 2.0' Centerline Width)
SS-1h or CSS-1h 1.99 Tons

Hwy 145 (1.5' Edge Line Width & 2.0' Centerline Width)
SS-1h or CSS-1h 2.98 Tons

ALTERNATE 1:

TACK COAT (for information purposes only, tack coat is incidental)

Hwy 127 (24' Width)
SS-1h or CSS-1h 6.71 Tons

Intersecting Roads/Approaches
SS-1h or CSS-1h 0.00 Tons

CLASS G ASPHALT CONCRETE COMPOSITE

Hwy 127 (24' Width)
Class G Asphalt Concrete 2,182.5 Tons

Intersecting Roads/Approaches
Class G Asphalt Concrete 0.0 Tons

FLUSH SEAL

Hwy 127 (1.5' Width)
SS-1h or CSS-1h 0.84 Tons

RATES OF MATERIALS CONT.

ALTERNATE 2:

TACK COAT (for information purposes only, tack coat is incidental)

Hwy 129 (24' Width)
SS-1h or CSS-1h 5.94 Tons

Intersecting Roads/Approaches
SS-1h or CSS-1h 0.0 Tons

CLASS G ASPHALT CONCRETE COMPOSITE

Hwy 127 (24' Width)
Class G Asphalt Concrete 1,931.4 Tons

Intersecting Roads/Approaches
Class G Asphalt Concrete 0.0 Tons

FLUSH SEAL

Hwy 127 (1.5' Width)
SS-1h or CSS-1h 0.74 Tons

PROTECTION OF UTILITIES

Utility covers, manholes, grated inlets, curb inlets, and traffic device covers located in the roadway shall be protected from coverage and referenced for prompt location and cleaning following application. The Contractor shall be responsible for covering, locating, removing and cleaning following application. The methods used to protect, reference, locate and clean shall be submitted by the Contractor and shall be subject to approval by the Project Engineer. All such materials shall be removed and properly disposed of by the Contractor at the end of each workday.

PAVEMENT MARKING

The pavement marking paint and glass beads shall be furnished and applied by the Contractor. All costs involved in the pavements marking paint and glass beads will be covered under the Bid Items "Pavement Marking Paint - White" and "Pavement Marking Paint - Yellow".

Construction requirements, method of measurement and basis of payment shall conform to the requirements of Section 633 of the Standard Specifications, current edition.

The regions to be painted shall be re-broomed to remove loose sand, gravel, or tracked-on dirt a minimum of 5 hours prior to application of the permanent marking paint.

The Estimate of Quantities is based on the following application rates, all of which materials are to be furnished in place by the Contractor.

Pavement Marking Paint, White 25.5 ± Gallons per Mile paid by the gallon

Pavement marking Paint, Yellow: 16.0 ± Gallons per Mile paid by the gallon

Glass Beads 8 lbs. per gallon of Yellow and White paint (glass beads are incidental to paint)

Care shall be taken by the Contractor to ensure existing pavement markings can be replicated after the new surface is cured. It is the Contractor's responsibility to ensure that existing passing and no-passing zones are replicated to existing conditions. **Permanent Pavement Marking shall be completed within three weeks (21) days, but no sooner than one-week (7) days post Fog Seal application.** Payment shall be made per gallon.

A penalty of \$100 per day shall be assessed, per calendar day, for every day exceeding the 21-day pavement marking deadline. Traffic Control shall be incidental to the cost of application. The striper and advance or trailing vehicle, shall be equipped with flashing amber or arrow panel warning lights

TURN LANES

The locations of the turn lanes are not shown in the plans; therefore, the Project Engineer shall provide the Contractor with the location of all turn lanes at the time of the pre-construction meeting or upon receipt of the contractor written notice.

Pavement marking for each turn lane shall follow the details shown in Plate 633.01, unless otherwise specified by the Engineer.

All costs for traffic control devices, signs and flaggers used for turn lane markings shall be incidental to the contract lump sum price for "Traffic Control, Miscellaneous".

NOTE: Paint quantities for turn lane pavement markings are included in the Bid Item "Pavement Marking Paint, White" and "Pavement Marking Paint, Yellow".



MC25-05 M&O
MILL & OVERLAY
HIGHWAYS 139, 145, 127, & 129

NOTES
DESIGNED BY: JBG
DRAWN BY: ATW
CHECKED BY: JBG
ACAD FILE: GENERAL NOTES
DATE: 01-13-2025
BY: DATE: REVISIONS:



SHEET NO.
B5

TEMPORARY PAVEMENT MARKINGS

Temporary Pavement Markings after the milling on this project will be paint. Temporary Pavement Markings shall be installed immediately upon completion of the milling of County Highways. One installation of Temporary Pavement Markings will be paid for, per mile.

Temporary Pavement Markings for this project after paving shall be temporary road markers (tabs).

Temporary road markers shall be used to mark dashed centerline, No Passing Zones, and applicable lane lines. Tabs shall be placed at the ends of each skip and at 10 foot spacing in no passing zones. Paint will not be allowed for temporary pavement marking after paving.

Cost for supplying and installing temporary pavement marking and removal of protective covers shall be plans quantities paid under the item "Temporary Road Markers". Plans quantity shall be the basis of payment for temporary pavement markers.

DRIPLINE/STRINGLINE

A dripline or stringline shall be placed after milling to mark the center of the road for the paving operation to follow. It is the contractor's responsibility to mark the center of the road in such a way that the dripline or stringline can be placed accurately.

GRIND RUMBLE STRIPES IN ASPHALT CONCRETE

Asphalt Concrete Rumble Stripes shall be constructed on the shoulders. Rumble Stripes shall be paid for at the contract unit price per mile for Grind 8" Rumble Strip or Stripe in Asphalt Concrete. It is estimated that 10.0 miles of asphalt concrete rumble strips will be required on the shoulders. Alternate 1 contains an additional 2.26 miles of rumble strips and Alternate 2 contains 2.0 miles of rumble strips.

Rumble Strips shall not be installed on bridge decks, through mailbox turnouts & locations, through intersections or driveways or within 50' of railroad crossings. Field approaches are not considered driveways.

The Contractor shall remove loose material from the driving surface and asphalt shoulders of the roadway.

Rumble Striping and Flush Seal shall be completed within the first two weeks (14) days after the completion of asphalt surfacing to meet the three week (21) day paint timeline. The Contractor is required to apply a Flush Seal to the newly installed Rumble Strips at a rate specified below.

SS-1h or CSS-1h Asphalt for Flush Seal the width of the rumbles, at the rate of 0.1 gallon per square yard and a width of 1.5'. Additional quantities are includes to flush seal the centerline rumbles as well at the same rate and width.

CENTERLINE RUMBLES

Centerline rumbles as show in standard plate 50.2.320 shall be placed in the center of the road in the following the completion of the surfacing mat:

- 1. County Highway 139 from SD 38 to 263rd St (2 miles)
- 2. County Highway 145 from SD 42 to 268th St (3 miles)

GRIND 4" TRANSVERSE RUMBLE STRIPS IN ASPHALT CONCRETE

4" Transverse Rumble Strips (TRS) shall be constructed across the travel lanes at the locations listed below:

- 1. County Highway 139 at the intersection of SD 38, northbound.
- 2. County Highway 145 at the intersection of SD 42, northbound.
- 3. County Highway 145 at the intersection of County Highway 148, southbound and northbound.

Measurement of the transverse rumble strips shall be for per set under the contract unit price per linear foot for "Groove 4" Transverse Rumble Strip in Asphalt Concrete". Such price payment shall be full compensations for all labor, materials and equipment necessary without adjustment due to width of pavement receiving the strips or length of strips to satisfactorily complete the work. Basis of payments shall be plans quantity. See Standard Detail 50.2.320.

TRAFFIC CONTROL

Traffic Control Construction requirements shall be in accordance with Section 634 of the Standard Specifications, current edition, and MUTCD, Millennium Edition, and as set forth in these plans. Traffic Control Devices shall be furnished and installed in accordance with the detail shown in these plans.

- 1. All non-fixed support signs may be mounted on portable supports. The portable supports shall be constructed to yield upon impact to minimize hazards to motorists.
- 2. Erect only those signs that are applicable to the work in progress. When the Contractor is working at specific work areas within the project, only those traffic control devices applicable to the operation shall be displayed. The fixed support signs at the ends of the project shall be installed prior to commencement of any work on the project.
- 3. Work activities will be conducted during daylight hours only. During nights, weekends and other non-working hours, all materials and equipment shall be removed from the roadway and ditch and stored a minimum distance of 30 (thirty) feet from the traveled lanes.
- 4. Flaggers, properly attired and preceded by Flagger Symbol Signs, will be required when work activity and/or equipment presents a hazard to the workers, a hazard to the through traffic or encroaches into a lane open to traffic.
- 5. 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. The pilot car shall be equipped with a "Pilot Car Follow Me" G20-4, 36" x 18" sign. The cost for this sign shall be incidental to the pay item "Pilot Car".
- 6. Resetting, temporary relocation and/or covering of existing traffic control devices as may be necessary to adequately maintain traffic or perform the work shall be incidental to the contract lump sum price for Traffic Control, Miscellaneous.
- 7. An UNEVEN LANES sign shall be placed in advance of all locations where asphalt was placed on one side of the roadway and not the other for any time after work hours. There should never be more than a two inch (3") difference between adjacent lanes as the overlay of one lane should never progress more than one day's work ahead of the other.
- 8. The Contractor shall be required to have a person available 24 hours/day, 7 days/week to maintain Traffic Control Devices. The name and cellular telephone number of this individual shall be given to the County at the preconstruction meeting.
- 9. Sufficient signs have been included in these plans to sign one work area. If the Contractor elects to work on additional sites simultaneously, the cost of additional signing shall be absorbed in the price bid for Traffic Control Units.
- 10. Temporary pavement markings shall be placed and maintained by the Contractor, in accordance with Section 634 of the Standard Specifications and Supplemental Specifications.
- 11. All equipment and vehicles entering or exiting the roadway, traveling on the shoulders or driving lanes at speeds less than 40 MPH, or working within the right-of-way shall display a flashing amber light visible for a minimum distance of one-fourth (1/4) mile in all directions.



MC25-05 M&O
MILL & OVERLAY
HIGHWAYS 139, 145, 127, & 129

NOTES
DESIGNED BY: JBG
DRAWN BY: ATW
CHECKED BY: JBG
ACAD FILE: GENERAL NOTES
DATE: 01-13-2025
BY: DATE: REVISIONS:

MINNEHAHA
COUNTY

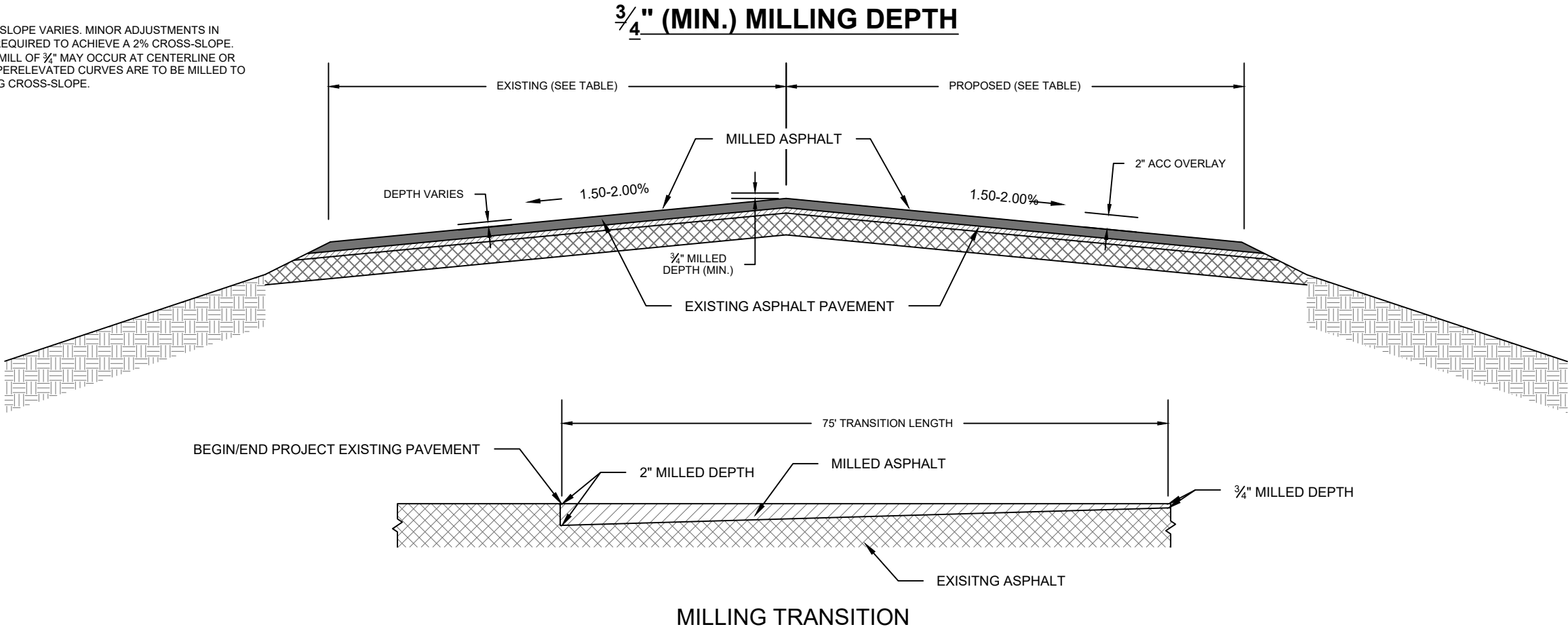


SHEET NO.

B6

TYPICAL SECTION

*NOTE: EXISTING CROSS-SLOPE VARIES. MINOR ADJUSTMENTS IN MILLING DEPTH MAY BE REQUIRED TO ACHIEVE A 2% CROSS-SLOPE. THE MINIMUM DEPTH OF MILL OF 3/4" MAY OCCUR AT CENTERLINE OR EDGE OF PAVEMENT. SUPERELEVATED CURVES ARE TO BE MILLED TO TO BEST MATCH EXISTING CROSS-SLOPE.



BASE BID

<u>HIGHWAY</u>	<u>MILE REFERENCE MARKER</u>	<u>MILL WIDTH</u>	<u>PAVING WIDTH</u>	<u>Cross Slope</u>	<u>Pavement Marking offset from CL</u>	<u>Rumple Strip offset from CL</u>
139	17.00 to 20.99	30'	30'	2.00%	12'	12'6"
145	21.00 to 24.00	28'	28'	2.00%	12'	12'6"

* MILL WIDTH AND PAVING WIDTH DOES NOT INCLUDE THE ADDITIONAL WIDTHS NECESSARY FOR THE TURN LANES ON HIGHWAYS 139 AND 145. THE WIDTHS ABOVE ARE FOR THE 2-LANE SECTIONS ONLY.



MC25-05_M80
HIGHWAYS 127, 129, 139, & 145
MILL & OVERLAY

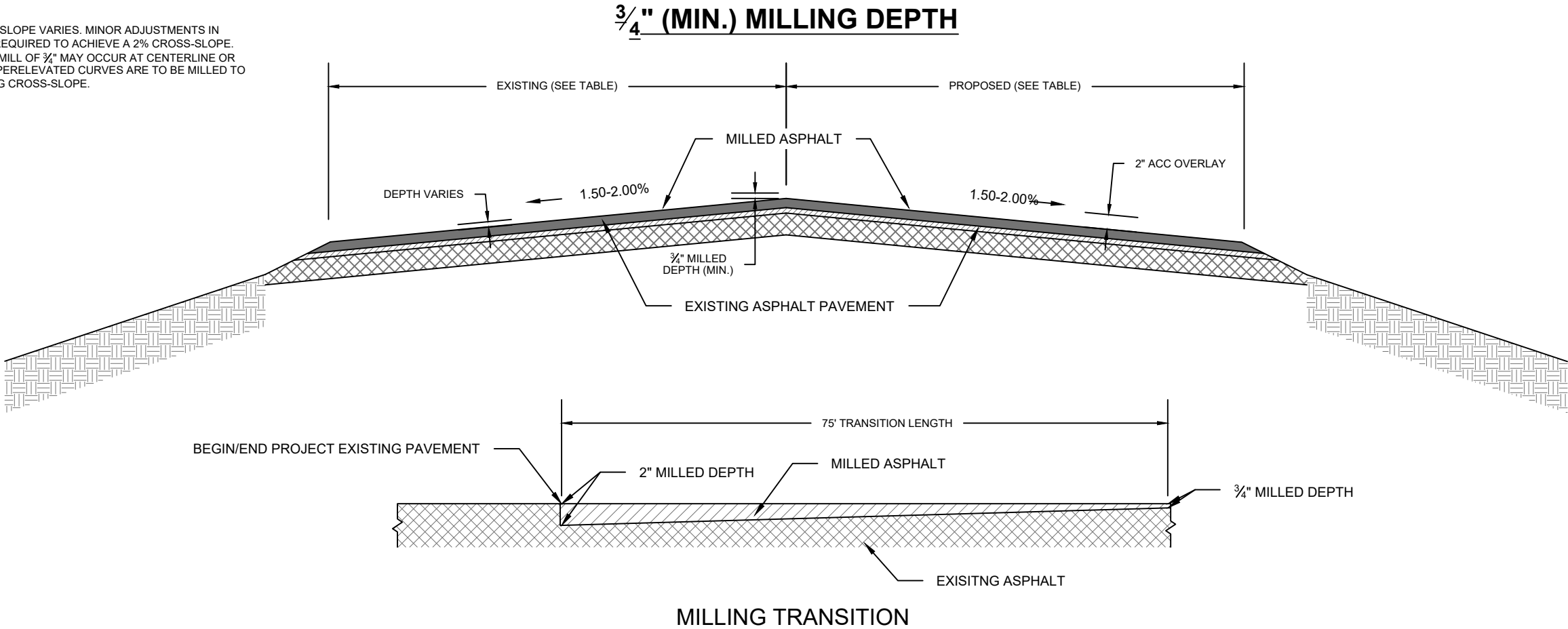
DESIGNED BY: JBG	ACAD FILE: MC25-05_M80_Typical Section.dwg
DRAWN BY: JBG	DATE: 01-13-2023
CHECKED BY: JBG	BY: DATE:
REVISIONS:	BY: DATE:

MINNEHAHA COUNTY



ALTERNATE 1 & 2: TYPICAL SECTION

*NOTE: EXISTING CROSS-SLOPE VARIES. MINOR ADJUSTMENTS IN MILLING DEPTH MAY BE REQUIRED TO ACHIEVE A 2% CROSS-SLOPE. THE MINIMUM DEPTH OF MILL OF 3/4" MAY OCCUR AT CENTERLINE OR EDGE OF PAVEMENT. SUPERELEVATED CURVES ARE TO BE MILLED TO TO BEST MATCH EXISTING CROSS-SLOPE.



ALTERNATE 1:

HIGHWAY	MILE REFERENCE MARKER	MILL WIDTH	PAVING WIDTH	Cross Slope	Pavement Marking offset from CL	Rumple Strip offset from CL
127	0.00 to 1.13	25'	24'	2.00%	10'6"	11'

ALTERNATE 2:

HIGHWAY	MILE REFERENCE MARKER	MILL WIDTH	PAVING WIDTH	Cross Slope	Pavement Marking offset from CL	Rumple Strip offset from CL
129	0.00 to 1.00	24'	24'	2.00%	11'	NONE



MC25-05_M80
HIGHWAYS 127, 129, 139, & 145
MILL & OVERLAY

TYPICAL SECTION
DESIGNED BY: JBG
DRAWN BY: ATW
CHECKED BY: JBG
ACAD FILE: MC25-05_M80_Typical Section.dwg
DATE: 01-13-2023
BY: DATE:
BY: DATE:



TRAFFIC CONTROL

NO.	SIZE	DESCRIPTION	SQFT/ SIGN	NUMBER REQUIRED	TOTAL SQFT REQUIRED
W20-1	48"x48"	ROAD WORK AHEAD	16	19	304
W20-4	48"x48"	*ONE LANE ROAD AHEAD	16	6	96
W20-7A	48"x48"	*FLAGGER (SYMBOL)	16	6	96
G20-2	36"x18"	END ROAD WORK	4.5	16	72
SPECIAL	30"x24"	*WAIT FOR PILOT CAR	5	10	50
W8-1	30"x30"	BUMP	6.25	12	75
W8-11	48"x48"	**UNEVEN LANES	16	4	64
TOTAL					757

- * THESE SIGNS SHALL BE MOBILE SIGNS AND MUST BE REMOVED OR COVERED WHEN NO FLAGGERS ARE PRESENT AND HIGHWAY IS OPEN TO TRAFFIC IN BOTH DIRECTIONS
- ** THESE SIGNS SHALL BE MOBILE SIGNS AND MUST BE PLACED AT THE END OF THE DAY IF PAVING IS ONLY COMPLETE ON ONE LANE.



W20-1
48"x48"



G20-2
36"x18"



Special Sign
30"x24"



W8-1
30"x30"



MC25-05 M&O
HIGHWAYS 139 & 145
MILL AND OVERLAY

DESIGNED BY: JEM	ACAD FILE: MC25-05 M&O_Traffic Control.dwg
DRAWN BY: JEG	CHECKED BY: JEM
DATE: 01-13-2025	BY: DATE:
REVISIONS:	BY: DATE:



SHEET NO.



ALTERNATE 1: TRAFFIC CONTROL

SIGN TABULATION					
NO.	SIZE	DESCRIPTION	SQFT/ SIGN	NUMBER REQUIRED	TOTAL SQFT REQUIRED
W20-1	48"x48"	ROAD WORK AHEAD	16	4	64
G20-2	36"x18"	END ROAD WORK	4.5	4	18
W8-1	30"x30"	BUMP	6.25	4	25
TOTAL					107



W20-1
48"x48"



G20-2
36"x18"



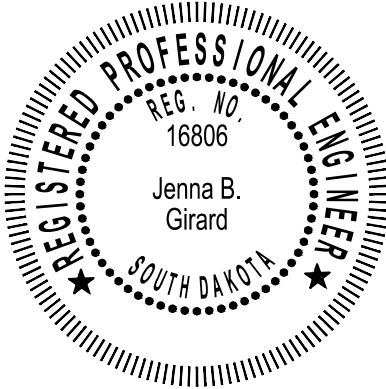
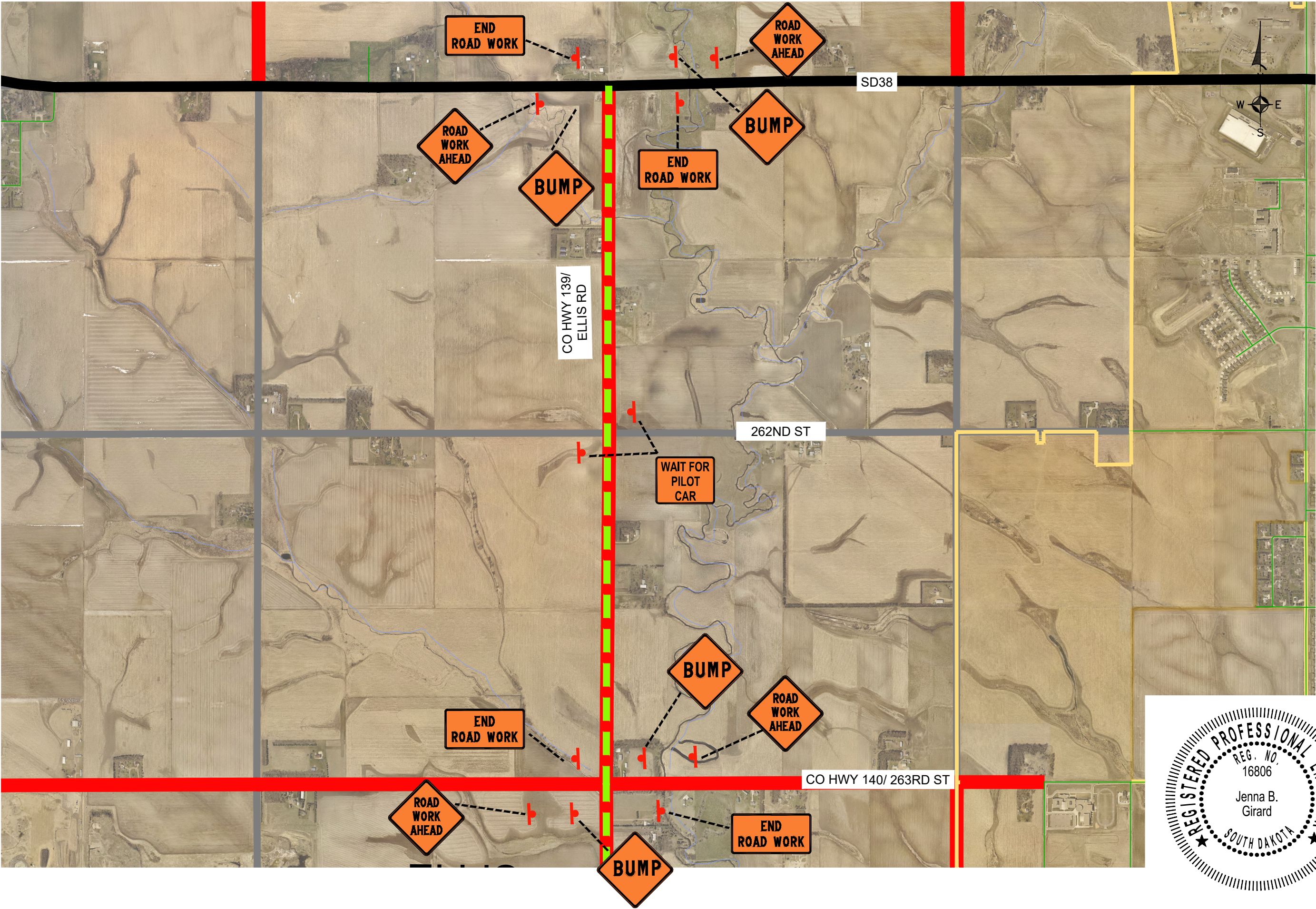
W8-1
30"x30"

ALTERNATE 2: TRAFFIC CONTROL

SIGN TABULATION					
NO.	SIZE	DESCRIPTION	SQFT/ SIGN	NUMBER REQUIRED	TOTAL SQFT REQUIRED
W20-1	48"x48"	ROAD WORK AHEAD	16	6	96
G20-2	36"x18"	END ROAD WORK	4.5	4	18
W8-1	30"x30"	BUMP	6.25	4	25
TOTAL					139



TRAFFIC CONTROL - HWY 139



MC25-05 M80
HIGHWAYS 139 & 145
MILL AND OVERLAY

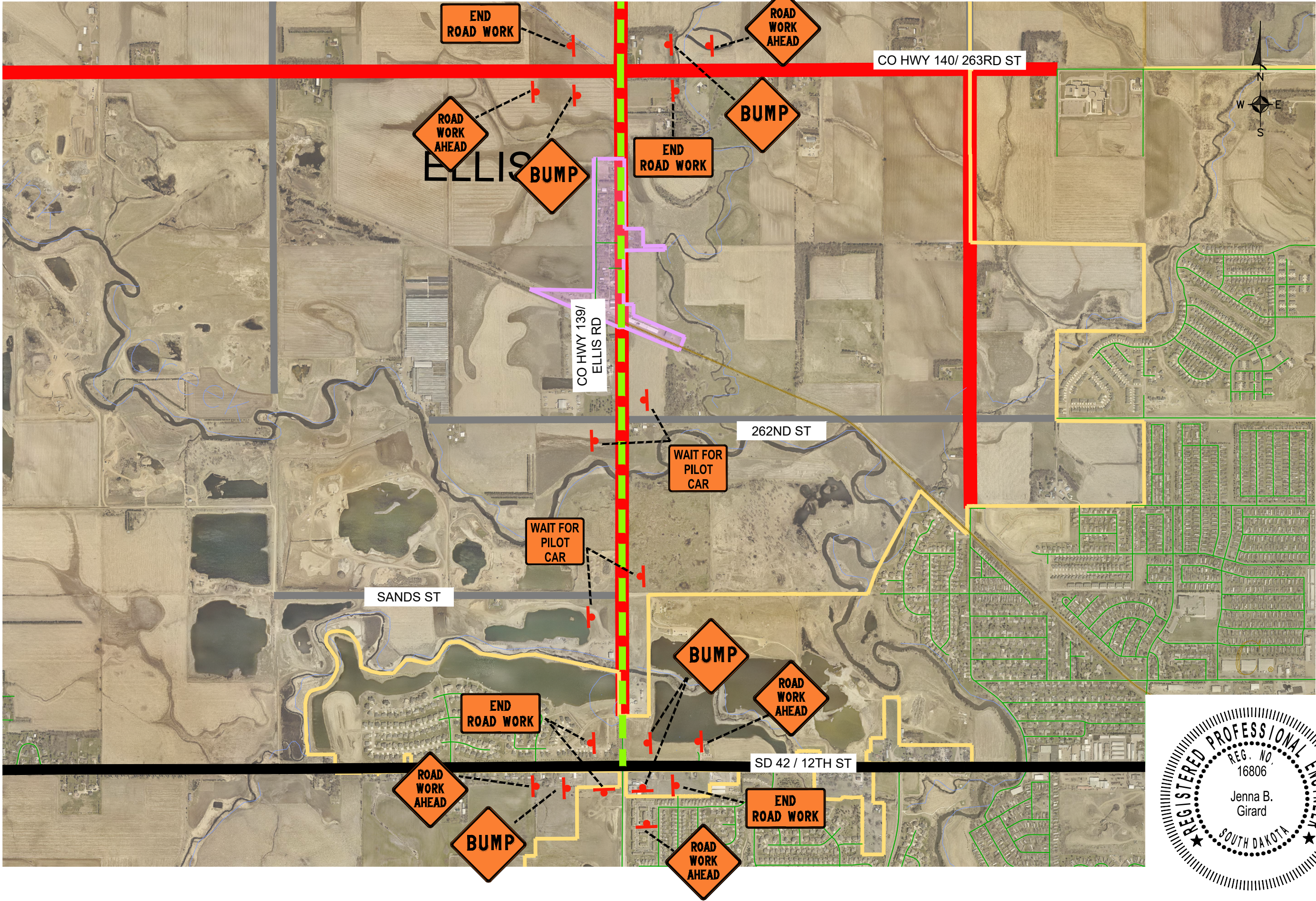
TRAFFIC CONTROL

DESIGNED BY: JEM	ACAD FILE: MC25-05 M80_Traffic Control.dwg
DRAWN BY: JBG	CHECKED BY: JEM
DATE: 01-13-2025	BY: DATE:
REVISIONS:	BY: DATE:

MINNEHAHA
COUNTY



TRAFFIC CONTROL - HWY 139 CONTINUED



MC25-05 M&O
HIGHWAYS 139 & 145
MILL AND OVERLAY

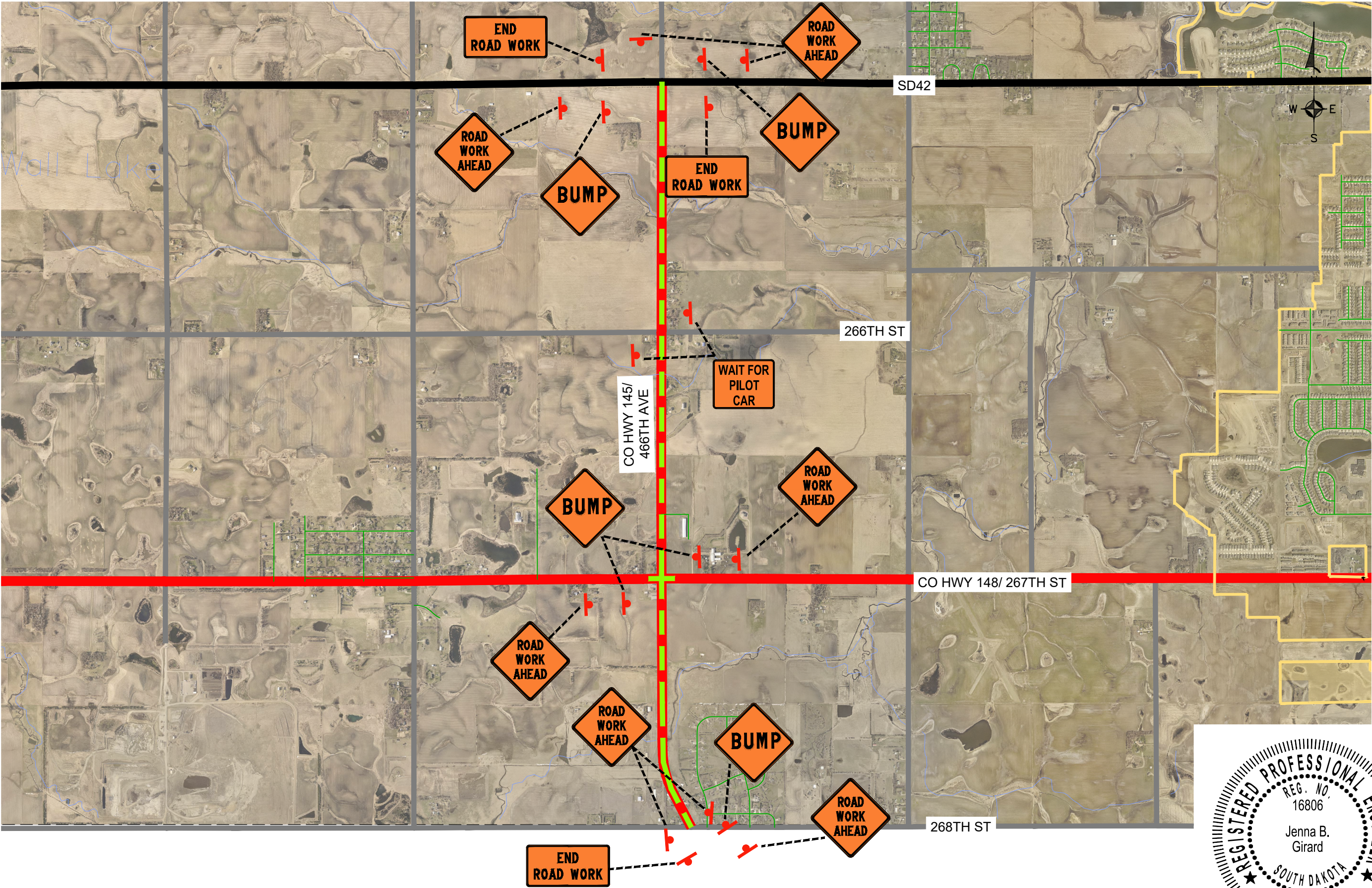
TRAFFIC CONTROL

DESIGNED BY: JEM	ACAD FILE: MC25-05 M&O Traffic Control.dwg
DRAWN BY: JEG	DATE: 01-13-2025
CHECKED BY: JEM	BY: DATE:
REVISIONS:	BY: DATE:

MINNEHAHA
COUNTY



TRAFFIC CONTROL - HWY 145



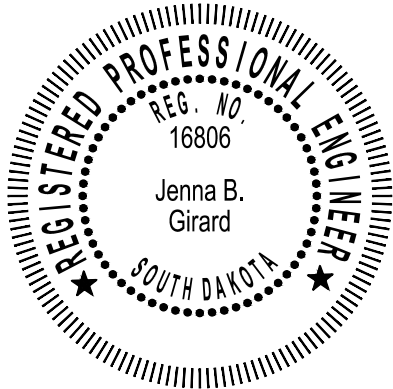
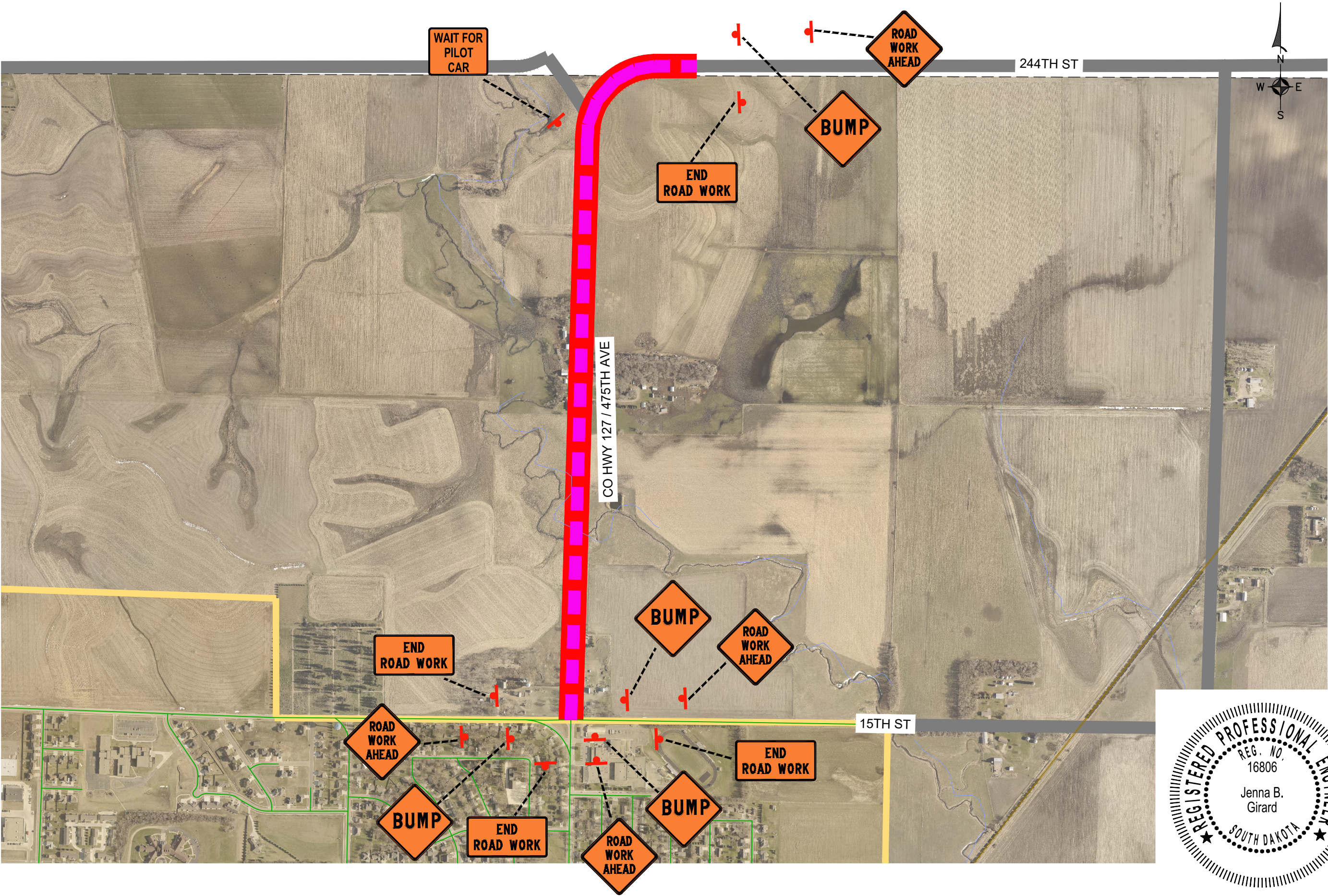
MC25-05 M80
HIGHWAYS 139 & 145
MILL AND OVERLAY

TRAFFIC CONTROL

DESIGNED BY: JEM	ACAD FILE: MC25-05 M80 Traffic Control.dwg
DRAWN BY: JEG	DATE: 01-13-2025
CHECKED BY: JEM	BY: DATE:
REVISIONS:	BY: DATE:



ALTERNATE 1 TRAFFIC CONTROL - HWY 127



MC25-05 M&O
ALTERNATE 1: HIGHWAY 127
MILL AND OVERLAY

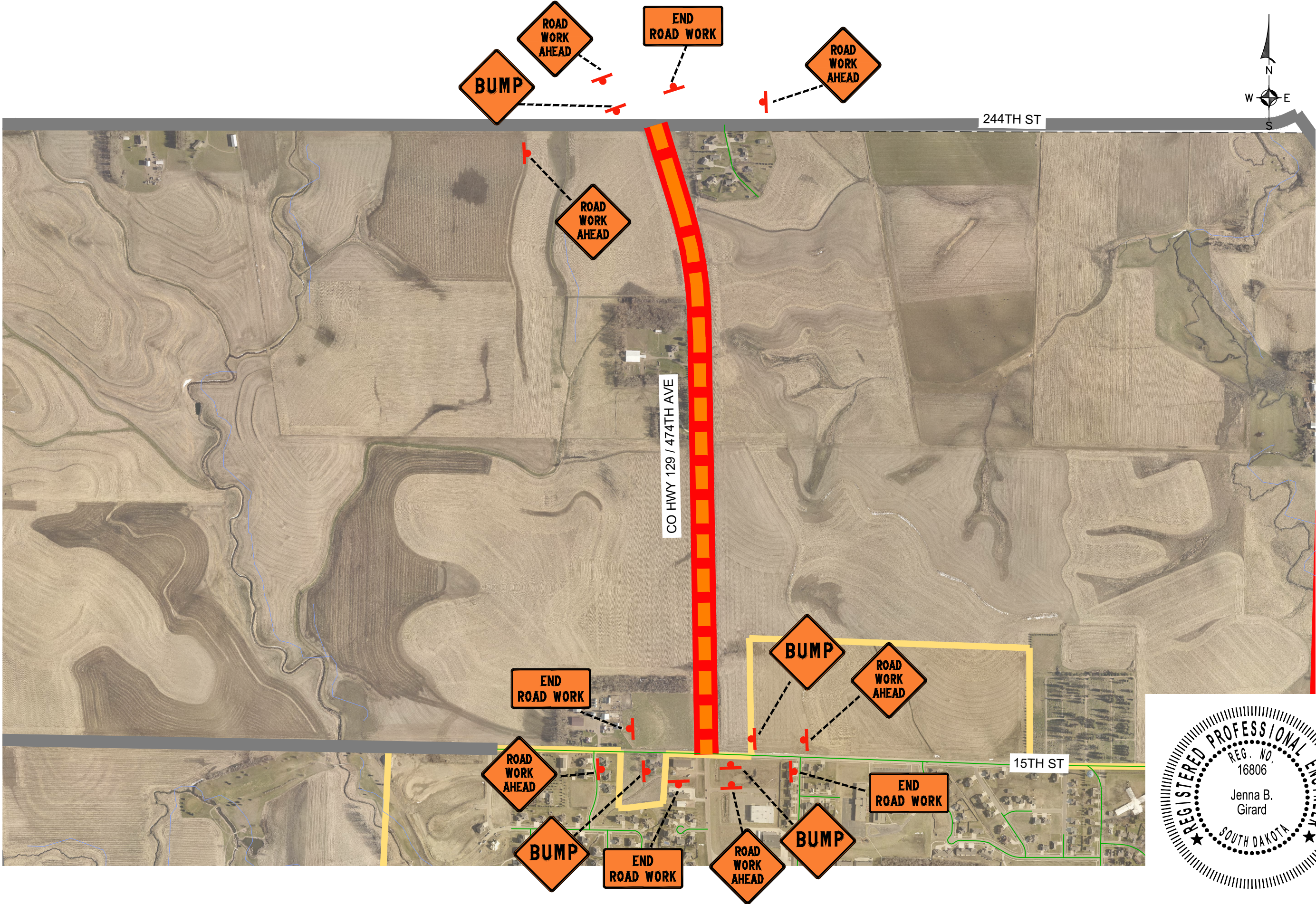
DESIGNED BY: JEM	ACAD FILE: MC25-05 M&O Traffic Control.dwg
DRAWN BY: JEM	DATE: 01-13-2025
CHECKED BY: JEM	BY: DATE:
REVISIONS:	BY: DATE:



SHEET NO.

E6

ALTERNATE 2 TRAFFIC CONTROL - HWY 129



MC25-05 M&O
ALTERNATE 2: HIGHWAY 129
MILL AND OVERLAY

TRAFFIC CONTROL
DESIGNED BY: JEM
DRAWN BY: JBG
CHECKED BY: JEM
ACAD FILE: MC25-05 M&O Traffic Control.dwg
DATE: 01-13-2025
BY: JEM
DATE: 01-13-2025
REVISIONS:

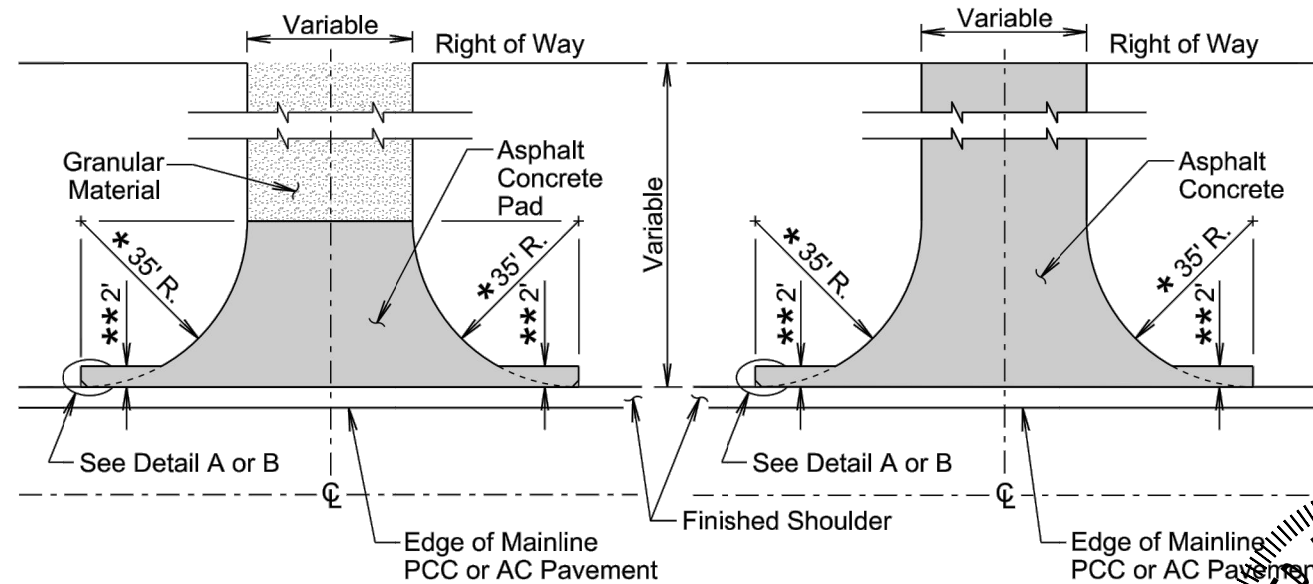
MINNEHAHA
COUNTY



SHEET NO.

E7

DESIGNED BY: JBG	ACAD FILE: MC25-05_M80_Details.dwg
DRAWN BY: ATW	DATE: 01-20-2025
CHECKED BY: JBG	BY: _____
REVISIONS:	DATE: _____



PLAN VIEW
(Intersecting Road)
(No Asphalt Concrete Surfacing
Beyond Right of Way)

PLAN VIEW
(Intersecting Road)
(Asphalt Concrete Surfacing
Beyond Right of Way)

GENERAL NOTES:

The precise construction limits for situations other than shown above will be determined by the Engineer during construction.

- * For new construction, 35' radius typical or as specified in the plans. For resurfacing projects, radius is variable depending on existing conditions.
- ** The Contractor may adjust the screed of the paver during mainline paving operations to provide the 2-foot asphalt concrete pad or the Contractor may provide the 2-foot asphalt concrete pad during paving of the intersecting roads as shown above. The Engineer may eliminate the 2-foot asphalt concrete pads if the Engineer, in the Engineer's sole discretion, determines the pads are infeasible to construct due to site specific reasons including, but not limited to; existing inslope configuration, borrow and material availability, and right-of-way constraints.

August 27, 2020

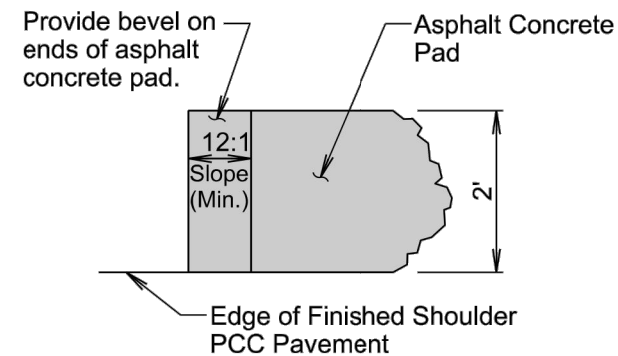
Published Date: 2025

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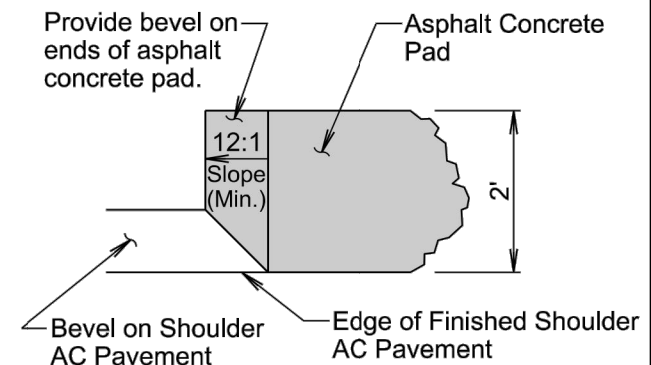
**SURFACING OR RESURFACING OF INTERSECTING
ROADS AND ENTRANCES (MAINLINE AND
SHOULDERS: PCC OR AC PAVEMENT)**

PLATE NUMBER
320.04

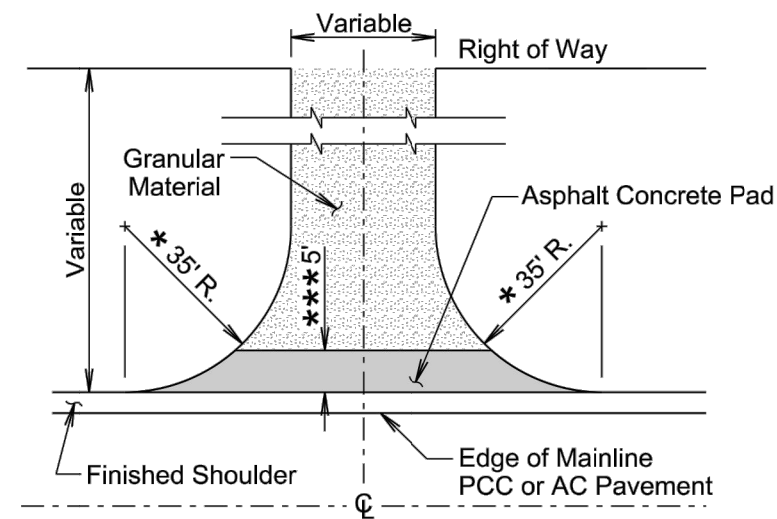
Sheet 1 of 2



DETAIL A
(Typ. for Projects with PCC Pavement on Shoulder)



DETAIL B
(Typ. for Projects with AC Pavement on Shoulder)



PLAN VIEW
(Entrance)

*** Not required if finished shoulder width is 4' or greater.

August 27, 2020

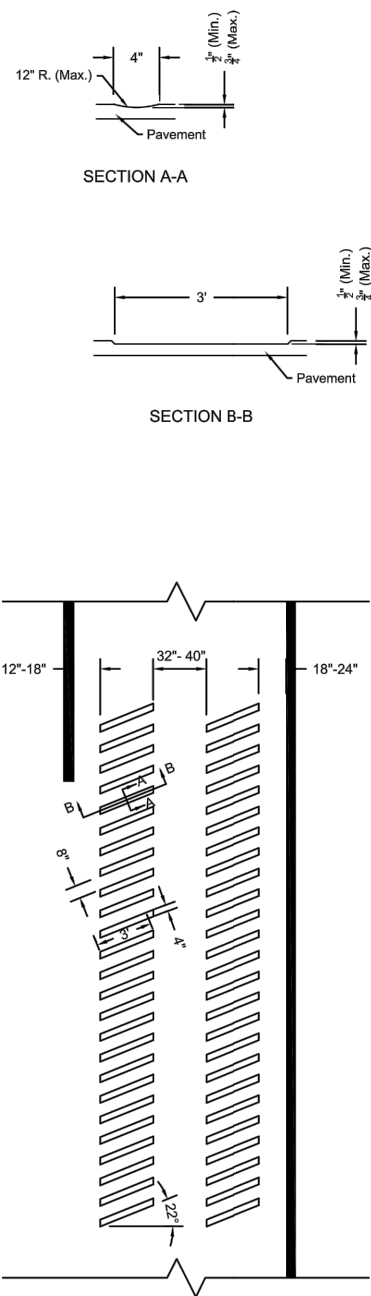
Published Date: 2025

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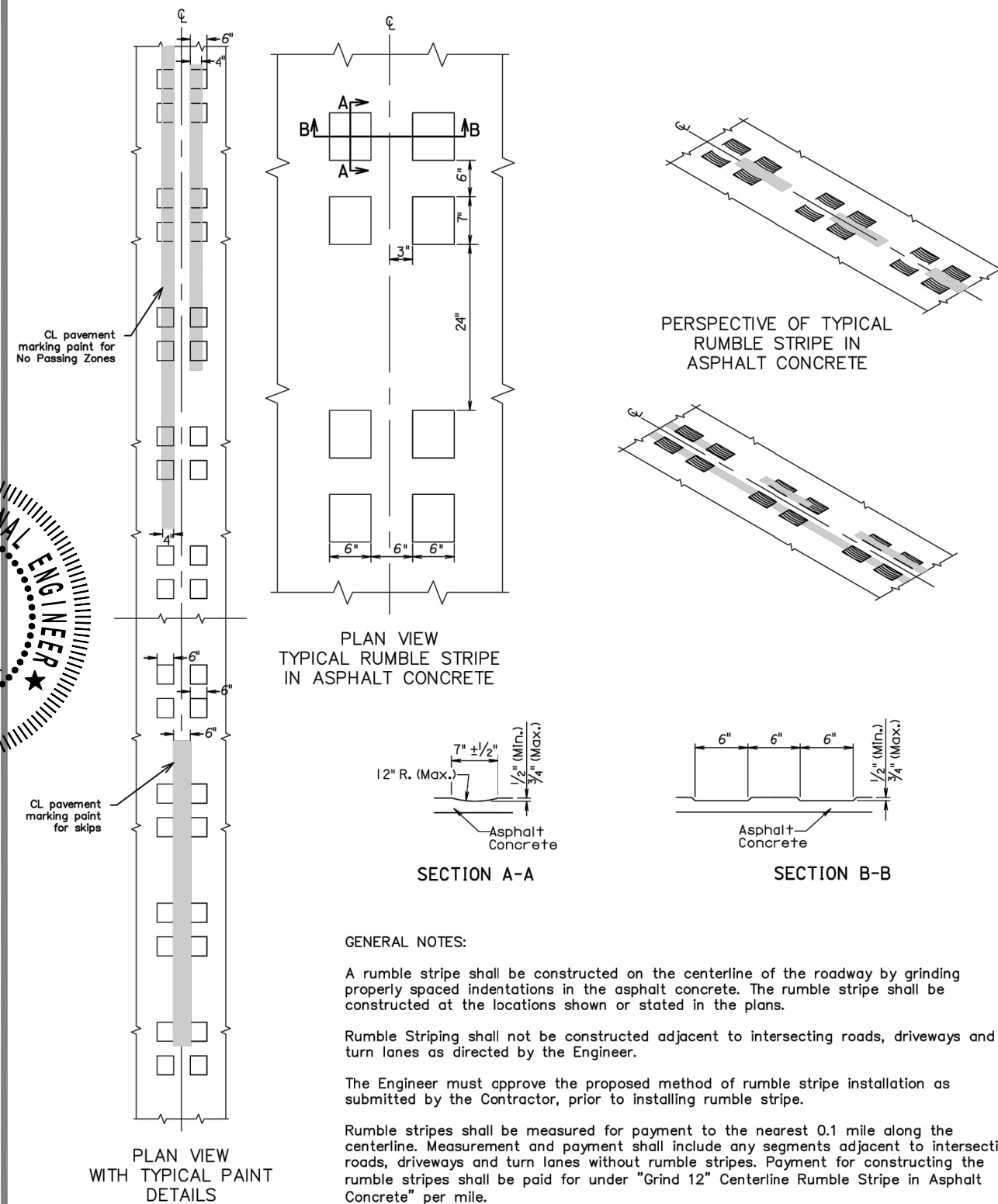
**SURFACING OR RESURFACING OF INTERSECTING
ROADS AND ENTRANCES (MAINLINE AND
SHOULDERS: PCC OR AC PAVEMENT)**

PLATE NUMBER
320.04

Sheet 2 of 2



A circular professional engineer seal for Jenna B. Girard. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" in a semi-circle at the top and "SOUTH DAKOTA" in a semi-circle at the bottom, separated by two stars. The inner circle contains the text "REG. NO." above the number "16806", and the name "Jenna B. Girard" below it. The seal is surrounded by a decorative border of short, radiating lines.



Rumble stripes shall be measured for payment to the nearest 0.1 mile along the centerline. Measurement and payment shall include any segments adjacent to intersecting roads, driveways and turn lanes without rumble stripes. Payment for constructing the rumble stripes shall be paid for under "Grind 12" Centerline Rumble Stripe in Asphalt Concrete" per mile.

STOP & R&R CROSSING RUMBLES	CLASS MCHD	PLATE NUMBER
	SCALE = NOT TO SCALE	50.2.320

12" CENTERLINE RUMBLE STRIPE IN ASPHALT CONCRETE	CLASS MCHD	PLATE NUMBER
	SCALE = NOT TO SCALE	50.2.320

DETAILS

DESIGNED BY: JBG
DRAWN BY: ATW ACAD FILE: MC25-05 M&O_Details.dwg
CHECKED BY: JBG DATE: 01-20-2025
REVISIONS:
BY: DATE:
BY: DATE:



MINNEHAHA
COUNTY

SHEET NO.

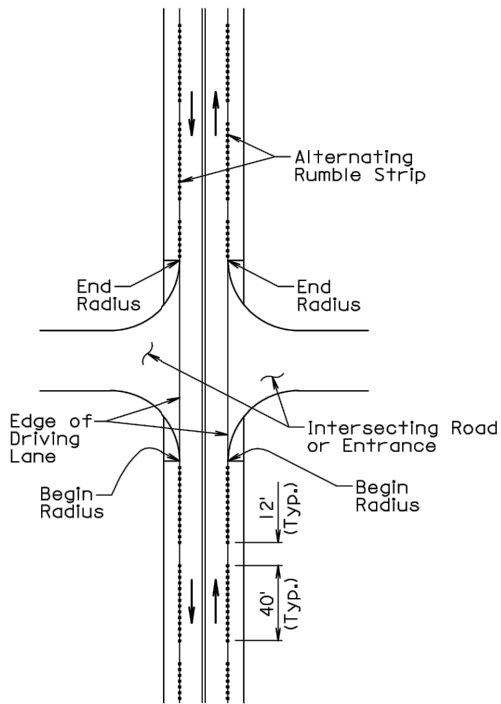
T2

MC25-05_M80
HIGHWAYS 127, 129, 139, & 145
MILL & OVERLAY

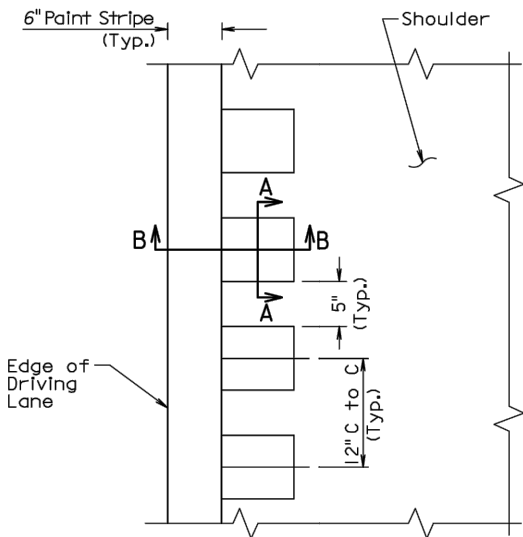
DETAILS
DESIGNED BY: JBG
DRAWN BY: AFW
CHECKED BY: JBG
ACAD FILE: MC25-05_M80_Details.dwg
DATE: 01-20-2025
BY: DATE: BY: DATE:

MINNEHAHA COUNTY

SHEET NO.
T3



PLAN VIEW



PLAN VIEW
TYPICAL RUMBLE STRIP
IN ASPHALT CONCRETE

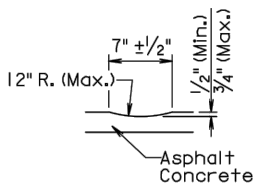
GENERAL NOTES:

A rumble strip shall be constructed on all of the asphalt concrete shoulders by grinding alternating patterns of 40' continuous indentations in the asphalt concrete. The rumble strip shall receive a flush seal with the shoulder flush sealing or asphalt surface treatment.

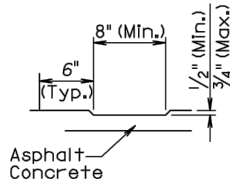
A rumble strip shall not be constructed through intersecting roads, entrances, and turnouts. The lengths of the 40' segments with continuous indentations and the 12' segments without a rumble strip adjacent to the intersecting roads, entrances, and turnouts shall be adjusted as approved by the Engineer.

Prior to constructing the rumble strip, the Contractor shall submit to the Engineer, for approval, the proposed method of constructing the rumble strip.

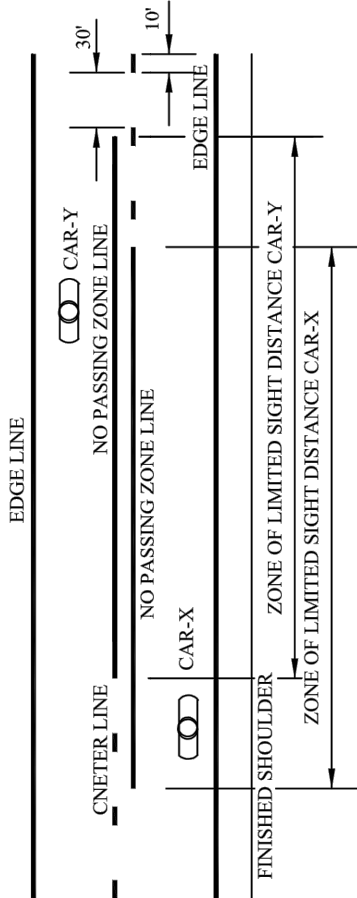
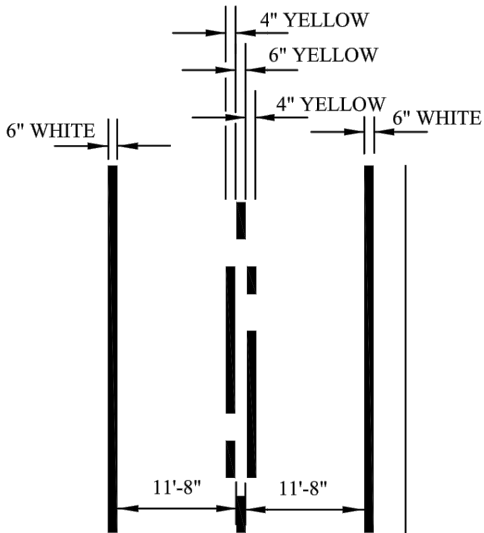
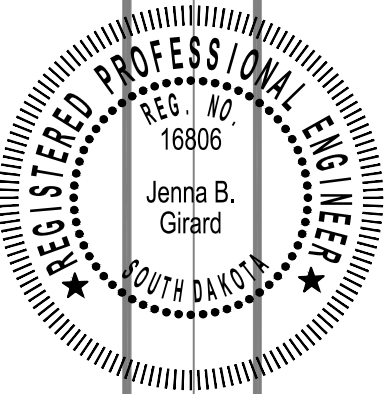
Measurement of the rumble strip shall be to the nearest 0.1 of a mile for each shoulder. Measurement and payment of the rumble strip shall include the 12' long segments without rumble strips and the segments adjacent to intersecting roads, entrances, and turnouts without rumble strips. Payment for constructing the rumble strip shall be at the contract unit price per mile for "Grind 8" Rumble Strip or Stripe in Asphalt Concrete".



SECTION A-A



SECTION B-B



PAVEMENT MARKING PAINT

NOTES REGARDING FURNISHING AND APPLYING
PAVEMENT MARKING PAINT, WHITE AND YELLOW

1. The pavement marking paint and glass beads will be furnished and applied by the Contractor. Material shall meet the requirements of Section 980 of the Standard Specifications, 2015 edition.
2. Construction requirements, method of measurement, and basis of payment shall conform to the requirements of Section 633 and Special Provision for Pavement Marking Completion.
3. Beads shall be applied at the rate of eight pounds per gallon of paint.
4. The typical pavement markings as shown on this sheet are to be applied throughout the entire length of the project.
5. Exact locations of the NO PASSING ZONES are marked in the field by the locations of No Passing Zone and Pass With Care signs.
6. Traffic Control shall be included in the cost of application. The striping and advance and trailing warning vehicle shall be equipped with flashing amber lights or arrow panel warning lights.

8" RUMBLE STRIP IN ASPHALT CONCRETE

CLASS
MCHD

PLATE NUMBER

SCALE = NOT TO SCALE

50.1.321

CLASS
MCHD

PLATE NUMBER

SCALE = NOT TO SCALE

50.1.633

- Flagger
- Channelizing Device

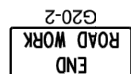
The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

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.

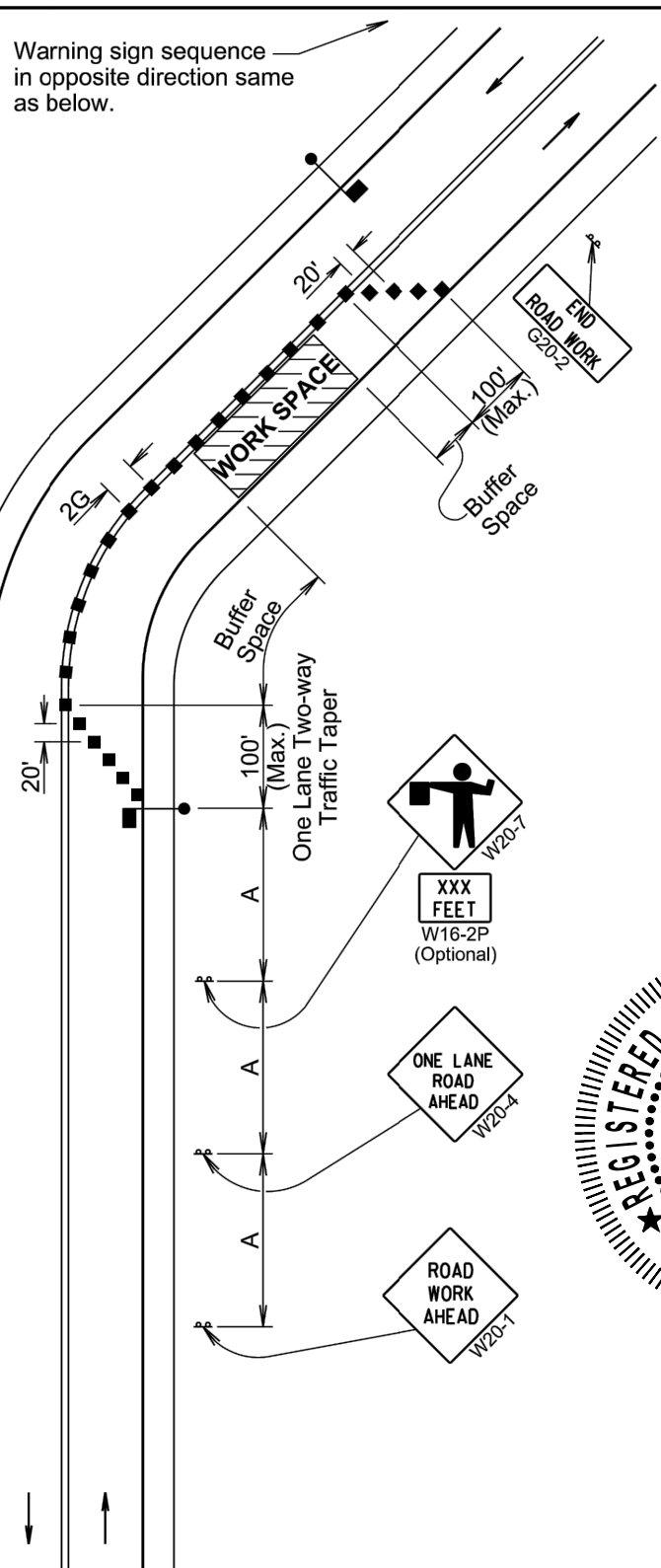
Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.



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.



January 22, 2021

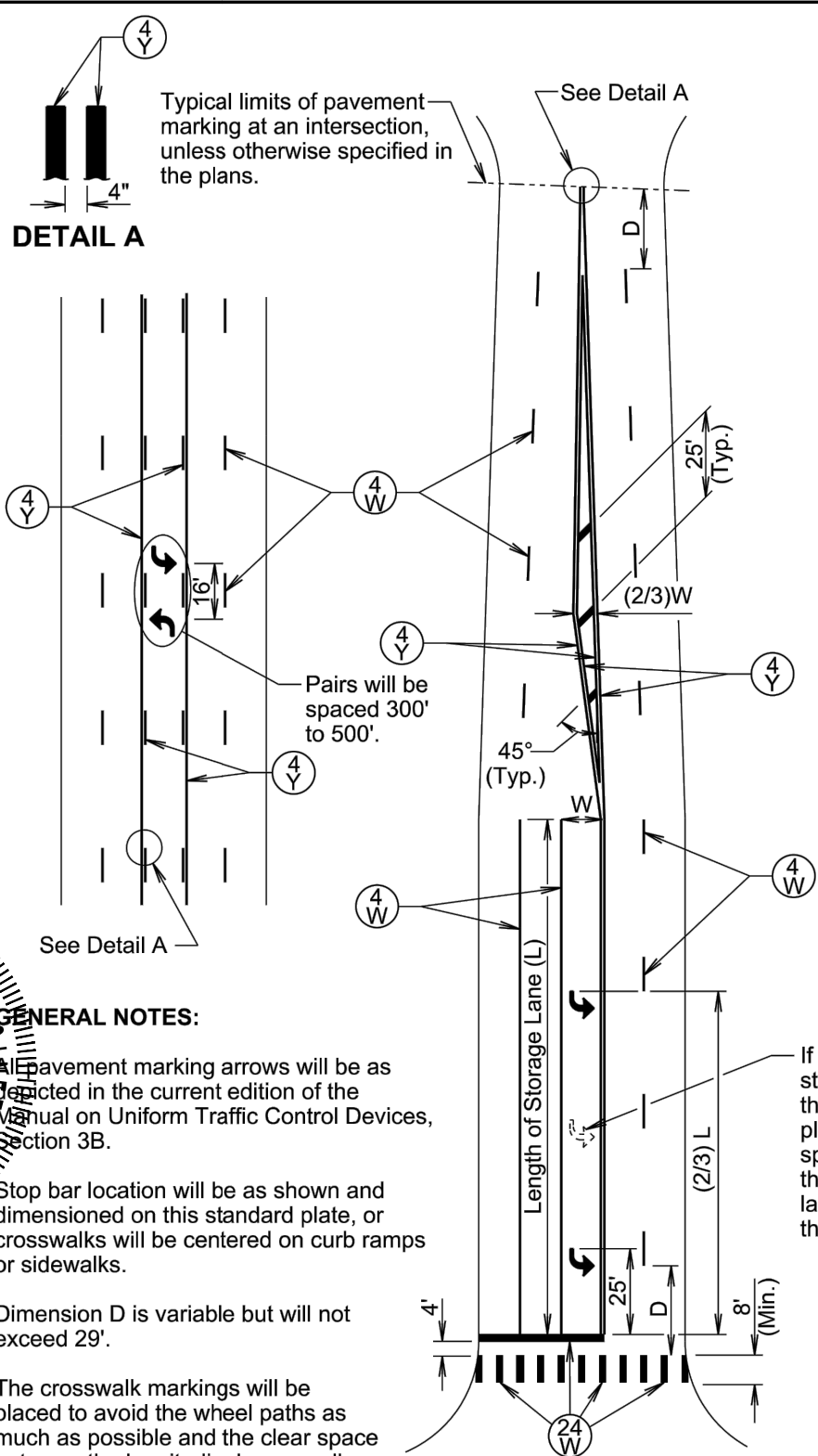
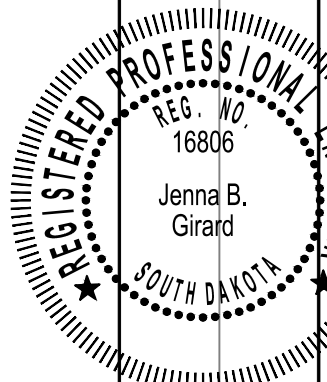
PLATE NUMBER
634.23

Sheet 1 of 1

Published Date: 2025

**S
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LANE CLOSURE WITH FLAGGER PROVIDED



GENERAL NOTES:







All pavement marking arrows will be as depicted in the current edition of the Manual on Uniform Traffic Control Devices, Section 3B.

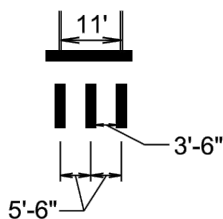
Stop bar location will be as shown and dimensioned on this standard plate, or crosswalks will be centered on curb ramps or sidewalks.

Dimension D is variable but will not exceed 29'.

- * The crosswalk markings will be placed to avoid the wheel paths as much as possible and the clear space between the longitudinal crosswalk markings will be from 2' to 5'.

- If more than 2 arrows per storage lane are shown, then the additional arrows will be placed at approximately equal spaces between the arrow at the beginning of the storage lane and the arrow nearest the stop bar.

KEY	ITEM
	4" White
	4" Yellow
	12" White
	24" White
	24" Yellow
	Arrow



*** CROSSWALK MARKING**
(11' Lane Width)



***CROSSWALK MARKING**
(12' Lane Width)

November 14, 2018

PLATE NUMBER
633.01

Sheet 1 of 1

SDDOT

PAVEMENT MARKINGS FOR ADJACENT INTERSECTIONS AND CENTER TURN LANE

Published Date: 1st Qtr. 2019

DETAILS

DESIGNED BY: JBG
DRAWN BY: ATW ACAD FILE: MC25-05_M&O_Details.dwg
CHECKED BY: JBG DATE: 01-20-2025
REVISIONS: BY: DATE:



MINNEHAHA
COUNTY

SHEET NO.

T4