

ROAD DEPARTMENT FOR IONIA COUNTY

170 E. Riverside Drive • Ionia, Michigan 48846 • Phone (616) 527-1700 • Fax (616) 527-8848

Linda Pigue
Managing Director

INVITATION TO BID

Sealed bids will be received until **10:30 A.M. on Monday, November 18, 2024** at which time they will be publicly opened and read in the offices of *the Ionia County Road Department of the County of Ionia, State of Michigan*, located at 170 E. Riverside Drive, Ionia, MI 48846.

Contract For MDOT Concrete Joint & Pavement Repairs on I-96

The contractor shall certify that all materials and equipment meet current Michigan Department of Transportation specifications. All bids will meet or exceed the specifications established by The County of Ionia, its Road Department and/or the Michigan Department of Transportation.

Additional information that will serve as the basis for bids can be found at www.ioniacountyroads.org on the "Doing Business" section, or at www.ioniacounty.org on the "Request for Proposals" section. Bids shall be mailed or delivered. **All bids must be submitted individually in sealed envelopes. Each document should distinctly specify the contract details for which their bid proposal is being submitted, along with the bidder's name and address.** Bids sent via fax or email will NOT be accepted.

The public Bid Opening is scheduled to occur at the Ionia County Road Department offices, situated at 170 E. Riverside Drive, Ionia, MI 48846, within the County of Ionia, State of Michigan. This event will commence at **10:30 A.M. on Monday, November 18, 2024**. Please be advised that late submissions will not be considered. All sealed bids should be directed to:

Ionia County Road Department
Attn: Cody Waite, Internal Coordinator
170 E. Riverside Drive
Ionia, Michigan 48846

The Michigan Department of Transportation, The County of Ionia, its board members, and its Road Department reserve the right to reject any and all proposals or to waive irregularities therein, and to accept any proposals that they deem most beneficial and advantageous. In instances of error in the extension of prices in the bid or arithmetical error, the unit prices will govern. Upon the opening of bids, they will become the property of the County of Ionia and may be disclosed in accordance with the Freedom of Information Act. The expenses incurred in responding to this Bid Request will be the exclusive responsibility of the bidding firm.

INSTRUCTIONS TO BIDDERS

Sealed bids will be publicly opened at the offices of the Ionia County Road Department of the County of Ionia, State of Michigan, located at 170 E. Riverside Drive, Ionia, MI 48846.

Refer to the INVITATION TO BID for the exact timing and for the identification of the bids as related to furnishing materials, services, equipment, work and/or supplies with the terms, conditions, specifications, drawings, plans and special provisions as stated herein and hereto attached.

1. Bids must be submitted on the bid form when provided. The bid shall be legibly prepared in ink or typed. The bidder must initial any erasures or alterations.
2. Specifications and plans should not be returned unless otherwise stated herein.
3. Bids shall be mailed or delivered. **All bids must be submitted individually in sealed envelopes. Each document should distinctly specify the contract details for which their bid proposal is being submitted, along with the bidder's name and address.** Bids sent via fax or email will NOT be accepted.
4. Bids will be accepted at the Ionia County Road Department office, on behalf of The County of Ionia, at any time during normal business hours. **Bids will not be accepted after the time designated for the opening of the bids.** The bidder shall assume full responsibility for delivery of bids prior to the appointed hour and shall assume the risk of late delivery or non-delivery regardless of the manner used for the transmission thereof.
5. It is Understood that The Michigan Department of Transportation, The County of Ionia and it's are governmental units and as such, are exempt from the payment of all State and Federal taxes, except as allowed by the regulatory agencies to be included in the cost of materials and services.
6. The bidder, as evidenced by the execution of the bid form, thereby declares that the bid is made without collusion with any other person, firm, or corporation and agrees to furnish all bid items in strict adherence with all Federal regulatory measures.
7. The Michigan Department of Transportation, The County of Ionia, its board members, and its Road Department reserve the right to reject any and all proposals or to waive irregularities therein, and to accept any proposals that they deem most beneficial and advantageous. In instances of error in the extension of prices in the bid or arithmetical error, the unit prices will govern.
8. Insurance Requirements: Upon request or notification of award, and prior to execution of the contract, the contractor shall have fourteen (14) days to submit a completed copy of their Certificate of Liability Insurance declaring the County of Ionia and the Michigan Department of Transportation as additional insured, not certificate holder, Contractor shall maintain current up-to-date insurance coverage during the term of the contract, failure to do so shall result in termination of said contract.

9. Indemnification: To the fullest extent permitted by law, the contractor shall save harmless and indemnify The Michigan Department of Transportation, the County of Ionia, its board members, its Road Department, all officers, agents, and employees, against all claims, damages, losses and expenses including, but not limited to, attorneys' fees arising out of or resulting from the performance of this Contract including claims, damages, losses and expenses attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, but only to the extent caused by the fault, negligent acts, or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage loss or expense is caused in part by the parties indemnified hereunder. This obligation does not include an obligation to indemnify the parties, indemnified hereunder for their sole negligence and shall not be construed to negate or modify other rights or obligations of indemnity that otherwise exist as to the parties or persons described herein, arising out of and during the progress and to the completion of work all in accordance with Public Act 468 of 2012 and the 2020 Michigan Department of Transportation's Standard Specifications for Construction, Division 1, paragraph 1.07.10 with the following minimum requirements:

- A. CERTIFICATE HOLDER block shall read: "The County of Ionia, 101 W. Main Street, Ionia, Michigan 48846".
- B. Worker's Compensation Insurance: The contractor shall carry Worker's Compensation Insurance in accordance with Public Act 468 of 2012 and the 2020 Michigan Department of Transportation's Standard Specifications for Construction, Division 1, paragraph 1.07.10 with the following minimum requirements:
- C. Bodily Injury and Property Damage: The contractor, shall afford protection against all claims for damages to public or private property, and injuries to persons, arising out of and during the progress of the work, and to its completion and, where specified in the proposal, similar insurance to protect the owner of premises on or near which construction operations are to be performed.
- D. Bodily Injury and Property Damage Other Than Automobile: Unless otherwise specifically required by special provisions in the proposal, the minimum limits of property damage and bodily injury liability covering each contract will be:
- E. Bodily Injury and Property Damage Liability:
Each Occurrence: \$1,000,000
Aggregate \$2,000,000

F. The insurance will include, but not be limited to coverage for:

- i. Underground damage to facilities due to drilling and excavating with mechanical equipment, and collapse or structural injury to structures due to blasting or explosion, excavation, tunneling, pile driving, cofferdam work, or building moving or demolition.
- ii. Bodily Injury Liability and Property Damage Liability Automobile. Unless otherwise specifically required by special provision, the minimum limits of bodily injury liability and property damage liability shall be:

G. Bodily Injury Liability:

Each Person: \$500,000
Each Occurrence: \$1,000,000

Property Damage Liability:

Each Occurrence: \$1,000,000

Combined Single Limit for Bodily Injury and property Damage Liability:

Each Occurrence; \$2,000,000

H. Comprehensive General Liability Insurance: Naming The Michigan Department of Transportation, the County of Ionia, its board members, its road department, all officers, agents, and employees, is required. This policy shall also include coverage for product liability and completed operations, and bodily or property damage due to perils of explosion, collapse and underground hazards (X, C, U). The completed certificate shall provide the name of the insurance company and its address, phone number, and fax number, in addition to the policy numbers, policy periods, policy descriptions, and signature of the insurance agent.

I. Owner's Protective Public Liability Insurance: In the alternative to the previous section, the contractor shall provide for and on behalf of The Michigan Department of Transportation, the County of Ionia, its board members, its road department, all officers, agents, and employees and any agencies specifically named, and their employees, a policy for Owner's Protective Public Liability Insurance. Such insurance shall provide coverage and limits the same as the Contractor's Public Liability Insurance.

10. Cancellation of Contract Provisions: The Michigan Department of Transportation, the County of Ionia, its board members, and its Road Department shall have the right to cancel the contract for non-performance, should an inspection by the designated representative reveal that the contractor's work results in any non-acceptable maintenance condition of one or all specified areas. The designated representative at the time of the first circumstance shall call for a meeting with the contractor and issue a written warning of possible contract termination should the condition continue. If the condition should repeat for a second time, written notice of termination shall be sent.

11. Presumption upon Receipt of Bid: Submission of bid will be construed as a conclusive presumption that the contractor is thoroughly familiar with the bid requirements and specifications and that he/she understands and agrees to abide by each, and all stipulations and requirements contained therein.

12. The County of Ionia in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color, or national origin in consideration for an award." During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:
 - 1) **Compliance with Regulations:** The contractor shall comply with the regulations relative to non-discrimination in Federally assisted programs of the Department of Transportation, Title 49, code of Federal Regulations, Part 21 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
 - 2) **Non-discrimination:** The contractor, regarding the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulation, including employment practices when the contractor covers a program set forth in Appendix B of the Regulations.
 - 3) **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, or national origin.
 - 4) **Information and Reports:** The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the County of Ionia to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the Michigan Department of Transportation, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

- 5) **Sanctions for Non-compliance:** In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the County of Ionia shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
- A. Withholding of payments to the contractor under the contract until the contractor complies and/or
 - B. Cancellation, termination, or suspension of the contract, in whole or in part
- 6) **Incorporation of Provisions:** The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Ionia County Road Department may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Ionia County Road Department to enter into such litigation to protect the interests of the County, and, in addition, the contractor may request the Michigan Department of Transportation to enter into such litigation to protect the interests of the State and/or the United States to enter into such litigation to protect the interests of the United States.
13. Contractor and Contractor's Subcontractor: Neither the Contractor nor his/her subcontractors shall not discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to his/her hire, tenure, terms, conditions or privileges of employment because of his/her race, color, religion, national origin, or ancestry. Breach of this covenant may be regarded as a material breach of this contract.

GRAND REGION MAINTENANCE CONTRACT

PROJECT LOCATION

It is the intent of the County of Ionia to contract for the Michigan Department of Transportation for concrete pavement repairs on Eastbound 1.5 Miles (Sunfield Rd to Portland Rd) and Westbound 3.0 Miles (3500ft east of Keefer Hwy to Sunfield Rd) on 1-96 from Sunfield Rd to 0.7 Miles east of Keefer Highway in the County of Ionia, Michigan.

SCOPE

The contractor shall furnish all the materials, labor and equipment needed for concrete pavement repairs as required, and as directed by the MDOT Engineer.

DISCRIPTION OF WORK

4.5 Miles of full depth and concrete overlay pavement repairs. All work shall conform to the 2020 MDOT Standard Specifications for Construction and applicable MDOT standard plans. The location, size and quantity of patches may be field adjusted by the Maintenance Coordinator, depending on conditions.

The contractor shall locate the existing Perforated Drainage System (PDS). The general location is under the shoulder. Damaged PDS shall be the responsibility of the contractor and repaired according to the engineer.

The contractor is informed that the existing concrete pavement thickness is approximately 9 inches.

Lane 2 noted in the patch log is designated as the right outside most driving lane.

PROGRESS CLAUSE

Start work within 3 days after receiving the notice of award or as approved by MOOT project staff. In no case shall work commence prior to receipt of formal notice of award. This is an expedited project. The contractor shall complete as much of the work in 2024 as possible. If MOOT project staff determines the weather conditions are not suitable or safe for work operations the contract shall be seasonally suspended by the department until suitable conditions are available in the Spring 2025. The contractor shall make every effort to complete the work in 2024. The intent of this project is to complete all work in its entirety in 2024.

The entire project shall be completed on or before **May 30, 2025**.

GRAND REGION MAINTENANCE CONTRACT

<u>MDOT CONTRACT</u>	<u>TWA / MDOT PROJECT NUMBER</u>
Jason Guikema 616.293.1916	

APPLICABLE MDOT STANDARD PLANS

Standard Plan Title	Plan No.
Transverse Pavement Joints (Plain Concrete Pavement)	R-39-K
Load Transfer Assemblies for Transverse Joints	R-40-I
Longitudinal Pavement Joints	R-41-H
Typical Joint Layouts For Concrete Pavement	R-42-F
Location of Transvers Joints In Plain Concrete Pavement	R-43-J*
Concrete Pavement Repairs	R-44-G*
*Notes Special Detail	

PERMITS AND ORDINANCES

The contractor shall observe all local noise ordinances and other local laws that may pertain to work completed on the project. No night work will be allowed. Local permits will be the responsibility of the contractor

PROJECT COORDINATION

125986A – I-96 Reconstruction from Bliss Rd to Sunfield Rd. Some coordination may be required with the adjacent reconstruction project.

OLD PLANS

200581A (2019)

GRAND REGION MAINTENANCE CONTRACT

MAINTAINING TRAFFIC

The contractor shall maintain traffic in accordance with all department policies and standards. Devices shall be MMUTCD compliant and conform with ATTSA device quantity standards. This project does not have a Maintaining Traffic Special Provision. Contractors are expected to self-certify that all traffic control devices are crash compliant with the most recent crash standard. The contractor shall also designate a contract for traffic control and shall maintain the device for placement and condition over the life of the contract. The contractor shall fill and submit form 0561 to MDOT project staff for advance notice of any lane closures for the project. The contractor shall submit form 0561 five days prior to implementation of lane closures. If the contractor elects to work in more than one location at a time the cost of any additional traffic control shall be borne by the contractor. Work zones shall be inspected daily by the contractor for down, damaged, or misaligned devices.

The department may choose to furnish or utilize its own Portable Changeable Message Signs (PCMS) or Speed Monitors within the construction influence area.

This contract shall utilize a left lane closure with a shift for both bounds of I-96 following MDOT standards plans. The maximum lane closure length shall be 3.0 miles. The contractor shall be allowed continuous lane closures between November 17th and November 27th at 3PM and from December 2nd at 7am until seasonal suspension for the 2024 season. No work shall be performed from Wednesday, November 27th at 3pm through Monday, December 2nd, at 7am. All 2025 lane closures shall be Sunday, 8pm through Thursday 3pm if needed.

STAGING

Stage 1: Complete all patches in the westbound direction of I-96.

Stage 2: Complete all patches in the eastbound direction of I-96.

Stages may be completed concurrently.

GRAND REGION MAINTENANCE CONTRACT

Estimated Traffic Control Required: (Information Only)

Line	Item	Quantity	Unit
010	Lighted Arrow, Type C, Furn	2.0	EA
020	Lighted Arrow, Type C, Oper	2.0	EA
030	Plastic Drum, Florescent, Furn	560.0	EA
040	Plastic Drum, Florescent, Furn	560.0	EA
050	Sign, Type B, Temp, Prismatic, Furn	1200.0	SFT
060	Sign, Type B, Temp, Prismatic, Oper	1200.0	SFT
070	Sign Cover	8.0	EA
080	Barricade, Type III, High Intensity, Double Sided Lighted, Furn	10.0	EA
090	Barricade, Type III, High Intensity, Double Sided Lighted, Oper	10.0	EA

*Drum Spacing is assumed at 50ft for concrete pavement repair projects.

UTILITIES

For the protection of underground utilities and in conformance with Public Act 174 of 2013, the contractor shall contact MISS DIG System Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for a single address or rte.missdig.org a minimum of 3 business days prior to excavating, including weekends and holidays.

MDOT's roadway lighting system, Intelligent Transportation Systems (ITS) and other miscellaneous electrical systems are not part of MISS DIG. Contractors shall contact the following at least 5 business days in advance for staking requests. Note that these are not emergency contacts for damage to utilities.

Grand Region

All Grand Region staking requests shall be submitted using MDOT form 5300:
<https://mdotiboss.state.mi.us/webforms/GetDocument.htm?fileName=5300.pdf>

Telephone inquiries can be made by calling the Grand Region Office at 616-451-3091

GRAND REGION MAINTENANCE CONTRACT

PROJECT MATERIALS

All materials being incorporated into the project shall conform with current MDOT materials requirements outlined in the 2020 MDOT Standard Specifications for Construction. The contractor, and any subcontractors, shall submit a bill of materials being incorporated into the project for review by the MDOT project staff. For all concrete related work, the contractor shall submit a Concrete Quality Control Plan for review and approval.

Only MDOT approved Concrete and HMA mix designs shall be used for this project.

SUBMITTAL LIST

Form 501 Materials Source List

Concrete Quality Control Plan

Contractor Safety Program

Form 1130 Progress Schedule

SAFETY PROGRAM AND CONTACT LIST

The contractor shall provide at the pre-construction meeting a copy of the contractor's Construction Safety Program and a list of and contacts of any subcontractors. The contract shall also provide an emergency contact for the project.

FINAL INSPECTION

The Michigan Department of Transportation and the Ionia County Road Department will make a final inspection of all work performed prior to releasing final payment.



GRAND REGION MAINTENANCE CONTRACT

PROJECT SPECIFIC NOTES

Plans from the 2019 pavement repair project have been included for reference. Westbound 1-96 has a partial concrete overlay and will require 1 inch dowel bars and geotextile fabric to replace missing portions of the existing HMA separator layer that may be removed.

The intent of this project is to complete all pavement repairs in 2024 if the weather permits safe work operations. If the project cannot be completed due to weather, the work will be suspended and completed in the spring of 2025.

This project includes concrete overlay pavement repairs on westbound 1-96. Contractors bidding this work will need to have access to 1" dowel bars for the construction of pavement joints.

Concrete Pavement Repairs and Debris Removal/Disposal

The contractor shall provide equipment, labor, and material and traffic control. The pavement section shall be saw cut and fully removed to the limits detailed in the plans. Removals shall be to the aggregate base course. Only MDOT approved Concrete shall be used to reconstruct the pavement section to the existing grade. The contractor shall take care to properly match the existing finish grade. Deviations of 1/8 inch in 10ft or more will require surface profiling at the contractors expense to properly match the existing pavement surface. The equipment and labor will be used to perform the work of saw cutting existing concrete pavement, removal of the existing pavement, placement of the concrete pavement repair and disposal of the removed existing concrete pavement and related debris. Contractor shall be responsible for the cleanup of all construction debris, its removal and disposal as required. All concrete debris shall be placed at Bugbee Pit located on Quarry Rd in Ionia County. The contractor shall also perform the saw cutting and resealing after the concrete pavement repairs are placed.

PAVEMENT REMOVAL QUANTITIES

Pavement removal as shown on the log will be at the discretion of the Engineer. If in his/her judgment, areas of pavement may be left in place, or additional areas added to provide the proper cross-section and base, changes will be made in the quantities. The project engineer may add or remove quantity from the project within the project limits.

GRAND REGION MAINTENANCE CONTRACT

PAYMENT

The single pay item within this contract will be per cubic yard for placed concrete pavement.

The as-bid unit price for this item shall include all equipment, labor, and materials needed to perform all aspects of the joint repairs including all specified traffic control measures.

Upon completion, payment will be authorized and approved by the Michigan Department of Transportation.

WARRANTY

Upon completion, a one-year warranty on the installation must be furnished.

Upon completion, all manufacturer's warranties, if applicable, must be furnished

SCHEDULE OF ITEMS

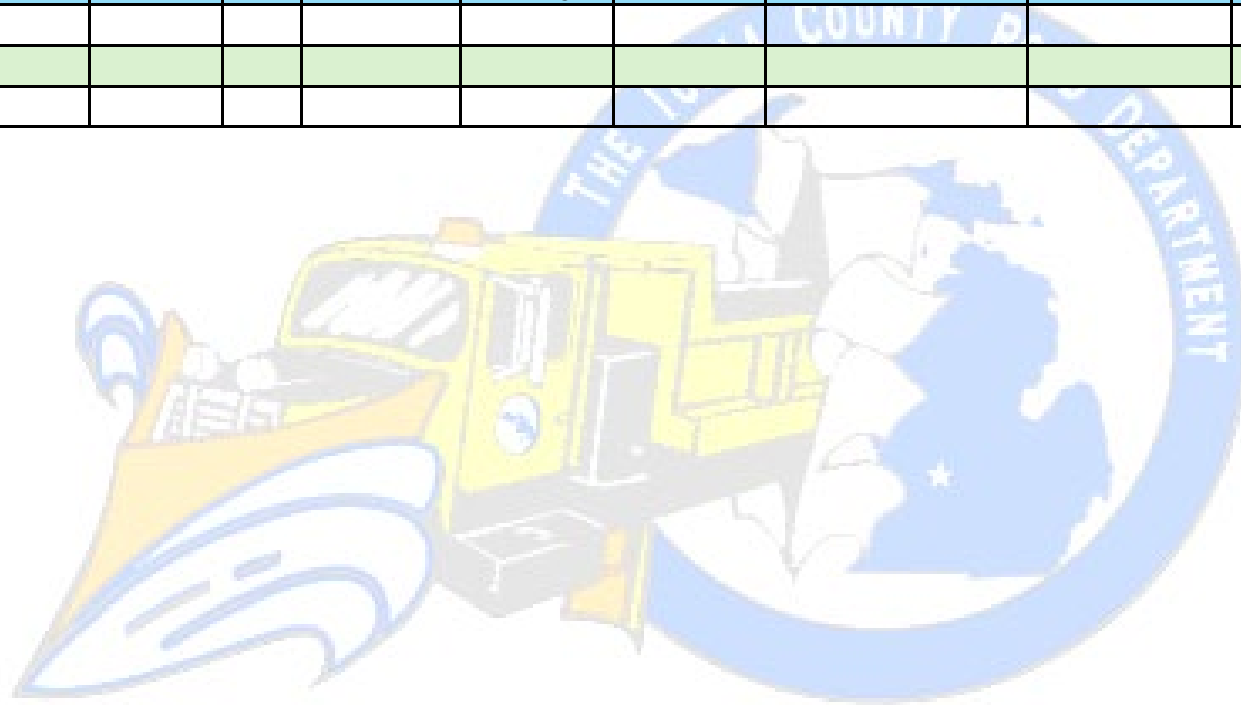
Item Number	Item Description	Quantity	Unit
001	Concrete Pavement Repairs	370.0	CYD
002	Maintenance Of Traffic	1.0	LSUM
003	Mobilization	1.0	LSUM
004	Minor Traffic Devices	1.0	LSUM

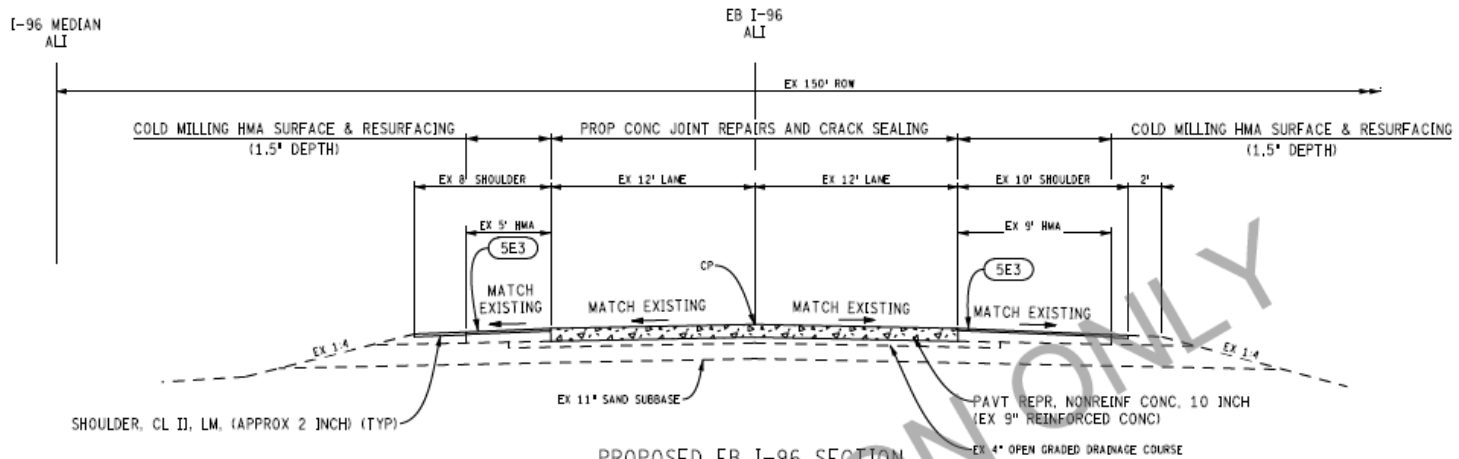
Concrete Pavement Repair Log

Joint Number	Route	Direction	Lane	Length (ft)	Width (ft)	Depth (ft)	Cubic Yards (Est.)	Comment	Square Yard
EB I-96									
01	I-96	EB	2	11	12	0.83	4.06		14.67
02	I-96	EB	2	9	12	0.83	3.32	Partial width	12.00
03	I-96	EB	2	26	12	0.83	9.59		34.67
04	I-96	EB	2	16	12	0.83	5.90		21.33
05	I-96	EB	2	8	12	0.83	2.95		10.67
06	I-96	EB	2	11	12	0.83	4.06		14.67
07	I-96	EB	2	24	12	0.83	8.85		32.00
08	I-96	EB	2	24	12	0.83	8.85		32.00
09	I-96	EB	2	17	12	0.83	6.27		22.67
010	I-96	EB	2	12	12	0.83	4.43		16.00
011	I-96	EB	2	54	12	0.83	19.92		72.00
013	I-96	EB	2	14	12	0.83	5.16		18.67
WB I-96									
01	I-96	WB	2	12	12	0.83	4.43		16.00
02	I-96	WB	2	7	12	0.83	2.58		9.33
03	I-96	WB	2	11	12	0.83	4.06	Partial width	14.67
04	I-96	WB	2	4	12	0.83	1.48		5.33
05	I-96	WB	2	5	12	0.83	1.84		6.67
06	I-96	WB	2	10	12	0.83	3.69		13.33
07	I-96	WB	2	4	12	0.83	1.48		5.33
08	I-96	WB	2	10	12	0.83	3.69		13.33
09	I-96	WB	2	13	12	0.83	4.80		17.33
010	I-96	WB	2	17	12	0.83	6.27		22.67
011	I-96	WB	2	7	12	0.83	2.58		9.33
012	I-96	WB	2	13	12	0.83	4.80		17.33
013	I-96	WB	2	17	12	0.83	6.27		22.67
014	I-96	WB	2	19	12	0.83	7.01	Partial width	25.33
015	I-96	WB	2	11	12	0.83	4.06	Partial width	14.67

016	I-96	WB	2	16	12	0.83	5.90		21.33
017	I-96	WB	2	15	12	0.83	5.53		20.00
020	I-96	WB	2	10	12	0.83	3.69		13.33
021	I-96	WB	2	13	12	0.83	4.80		17.33
022	I-96	WB	2	12	12	0.83	4.43		16.00
023	I-96	WB	2	21	12	0.83	7.75		28.00
024	I-96	WB	2	18	12	0.83	6.64		24.00
025	I-96	WB	2	11	12	0.83	4.06		14.67
026	I-96	WB	2	10	12	0.83	3.69		13.33
027	I-96	WB	2	16	12	0.83	5.90		21.33
028	I-96	WB	2	8	12	0.83	2.95		10.67
029	I-96	WB	2	19	12	0.83	7.01	Partial width	25.33
030	I-96	WB	2	10	12	0.83	3.69	Partial width	13.33
031	I-96	WB	2	5	12	0.83	1.84	Partial width	6.67
032	I-96	WB	2	11	12	0.83	4.06		14.67
033	I-96	WB	2	18	12	0.83	6.64		24.00
034	I-96	WB	2	18	12	0.83	6.64		24.00
035	I-96	WB	2	20	12	0.83	7.38		26.67
036	I-96	WB	2	18	12	0.83	6.64		24.00
037	I-96	WB	2	8	12	0.83	2.95		10.67
038	I-96	WB	2	7	12	0.83	2.58		9.33
039	I-96	WB	2	11	12	0.83	4.06		14.67
040	I-96	WB	2	11	12	0.83	4.06		14.67
041	I-96	WB	2	13	12	0.83	4.80		17.33
042	I-96	WB	2	9	12	0.83	3.32		12.00
043	I-96	WB	2	11	12	0.83	4.06		14.67
044	I-96	WB	2	8	12	0.83	2.95		10.67
045	I-96	WB	2	18	12	0.83	6.64		24.00
046	I-96	WB	2	20	12	0.83	7.38		26.67
047	I-96	WB	2	11	12	0.83	4.06		14.67
048	I-96	WB	2	5	12	0.83	1.84		6.67
049	I-96	WB	2	36	12	0.83	13.28		48.00
050	I-96	WB	2	52	12	0.83	19.18		69.33

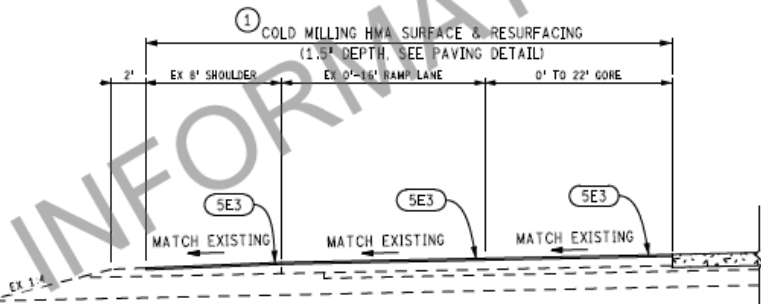
051	I-96	WB	2	10	12	0.83	3.69		13.33
052	I-96	WB	2	36	12	0.83	13.28		48.00
053	I-96	WB	2	42	12	0.83	15.49		56.00
054	I-96	WB	2	19	12	0.83	7.01		25.33
055	I-96	WB	2	9	12	0.83	3.32		12.00
Lane 1 - Lt Lane (Passing)									
Lane 2 - Rt Lane (Driving)									
					Total cyd		365.57		1321.33





PROPOSED EB I-96 SECTION

SECTION APPLIES TO:
 EB I-96 STA 1032+45 (JN 200586 POB) TO STA 1257+92 (JN 200586 POE)
 EB I-96 STA 1262+79 (JN 200581 POB) TO STA 1533+23 (JN 200581 POE)



PROPOSED EB I-96 RAMP SECTION

SECTION APPLIES TO:
 JN 200581 ENTRANCE AND EXIT RAMPS
 JN 200586 ENTRANCE AND EXIT RAMPS

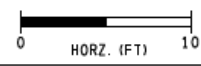
HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5E3	HMA, 5E3	170	58-28	I-96 SHOULDERS-TOP COURSE AWI=260 MIN.
5E3	HMA, 5E3	170	64-28	GORES & RAMPS-TOP COURSE AWI=260 MIN.
APP-1	HMA APPROACH	170	64-28	RAMP TERMINALS-TOP COURSE, AWI=260 MIN. (HMA, 5E3)
APP-2	HMA APPROACH	220	64-28	REST AREA RAMPS-LEVELING COURSE (HMA, 4E3)
HP	HAND PATCH	VARIABLE	64-22	HMA, 5E3
	* BOND COAT	0.05-0.15 GAL		

① EXTEND LIMITS INTO SHOULDER WHERE RAMP LANE WIDTH IS LESS THAN MILLING MACHINE

NOTE:
 SEE PAVING DETAIL FOR 1.5' RESURFACING AT GRAND RIVER AVENUE, PORTLAND RD, AND KENT STREET RAMPS

*FOR INFORMATION ONLY



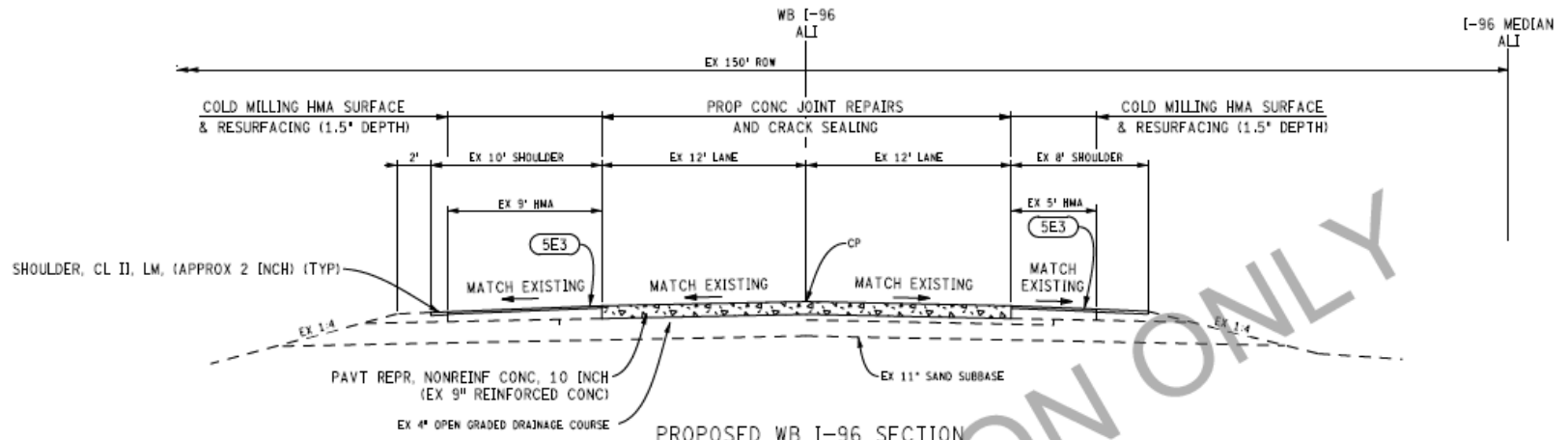
DATE: 8/31/18
 DESIGN UNIT: SABIN
 TSC: GRAND RAPIDS

CS: 34044
 JN: 200581, 200586
 298

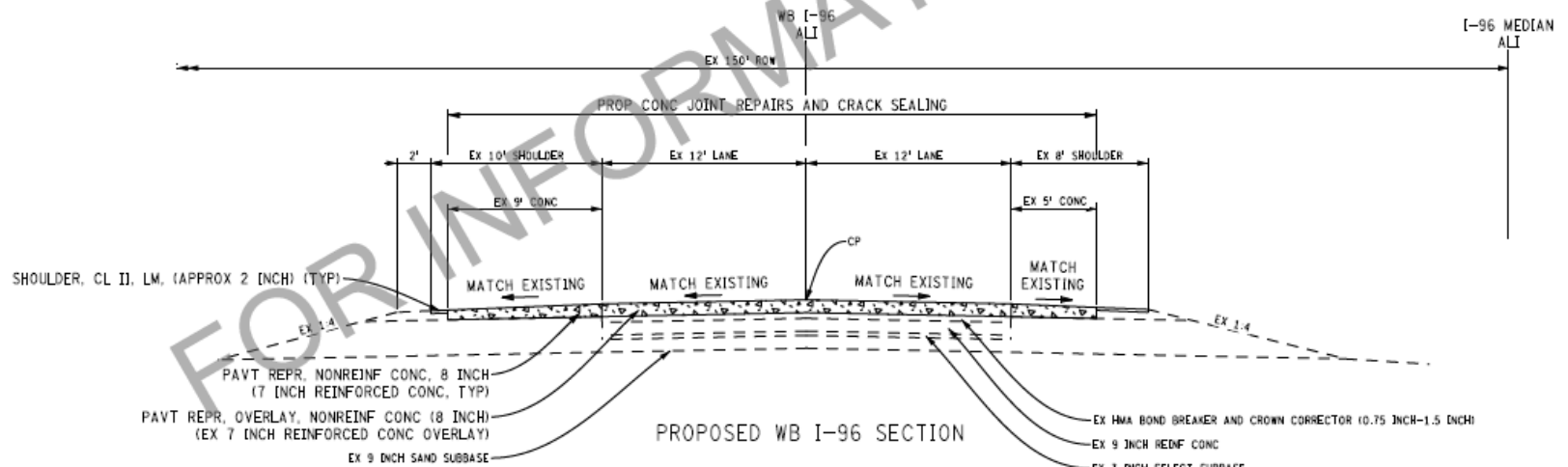
PROPOSED TYPICAL
 EB I-96 JOINT REPAIR

DRAWING	SHEET
TYP	01

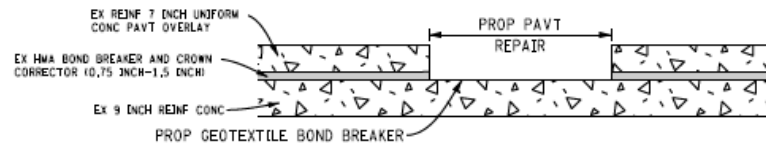
FILE: TYP.dgn



SECTION APPLIES TO:
WB I-96 STA 1533+23 (JN 200918 POE) TO STA 1262+79 (JN 200918 POB)



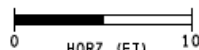
SECTION APPLIES TO:
WB I-96 STA 1258+02 (JN 200586 POE) TO STA 1032+40 (JN 200586 POB)



GEOTEXTILE BOND BREAKER PLACEMENT



FILE: TYP.dgn



DATE: 8/31/18
DESIGN UNIT: SABIN
TSC: GRAND RAPIDS

CS: 34044
JN: 200918
299

PROPOSED TYPICAL
WB I-96 JOINT REPAIR

DRAWING	SHEET
TYP 02	

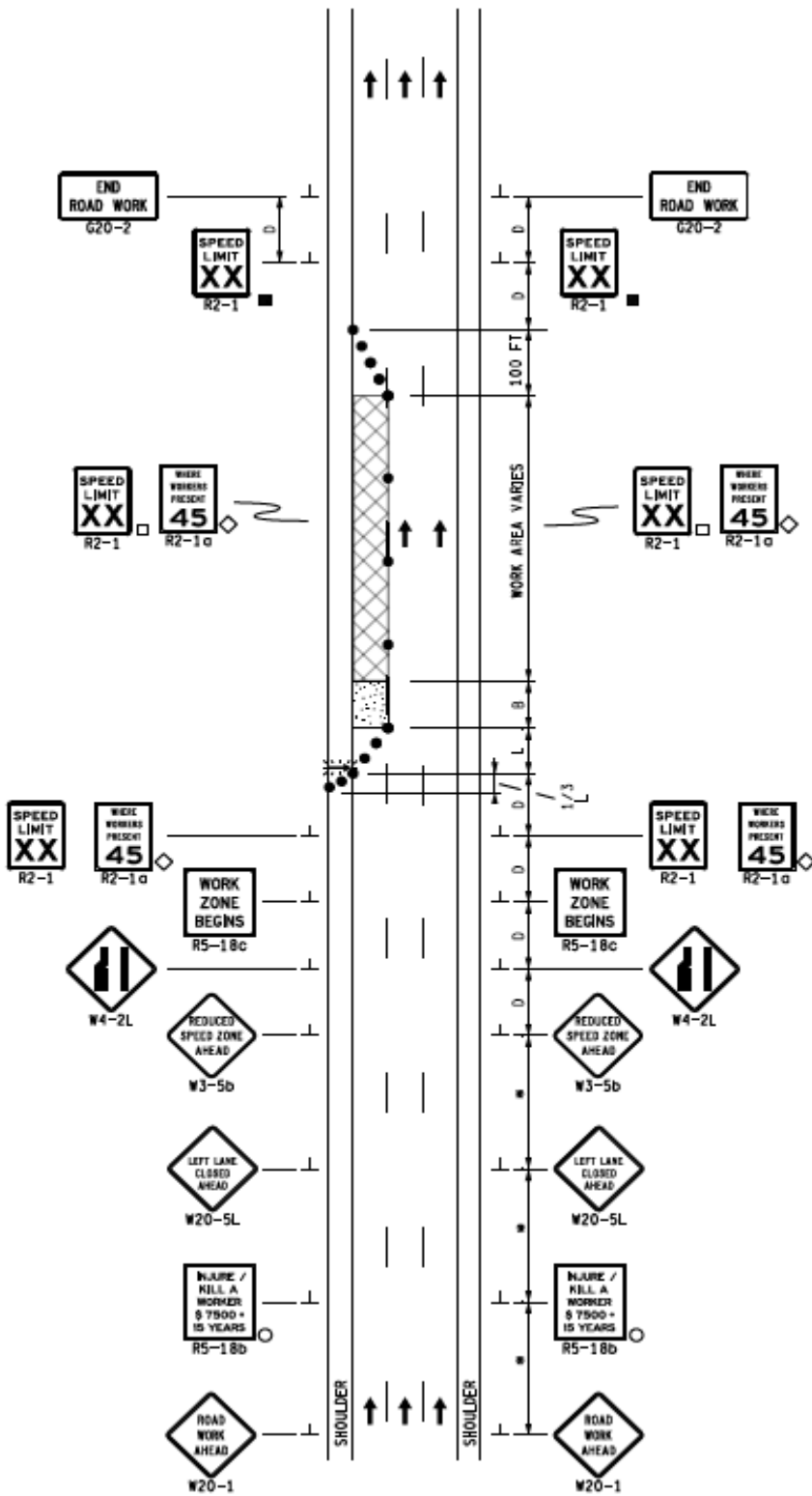
KEY

- *** CHANNELIZING DEVICES
- ⚡ LIGHTED ARROW PANEL
- ← TRAFFIC FLOW
- REFLECTS EXISTING SPEED LIMIT
- PLACE SIGN AS INDICATED IN NOTE S2
- ◇ R2-1a OPTIONAL
- PLACE SIGN AT A SPACING OF D ON DIVIDED ROADWAYS AND 2D ON FREEWAYS

STANDARD NOTES

(SEE 102-GEN-NOTES)

GENERAL: G1, G2, G3, G4
 SIGNING: S1, S2, S3, S5, S8
 DEVICES: TCD1, TCD2, TCD6



	NOT TO SCALE	MAINTAINING TRAFFIC TYPICAL	SINGLE LEFT LANE CLOSURE ON A FREEWAY OR DIVIDED ROADWAY	DATE: MAY 2021
		NO: 204-FW-1LC-(L)		SHEET: 1 OF 1

FILE: 204-FW-1LC-(L).dgn

KEY

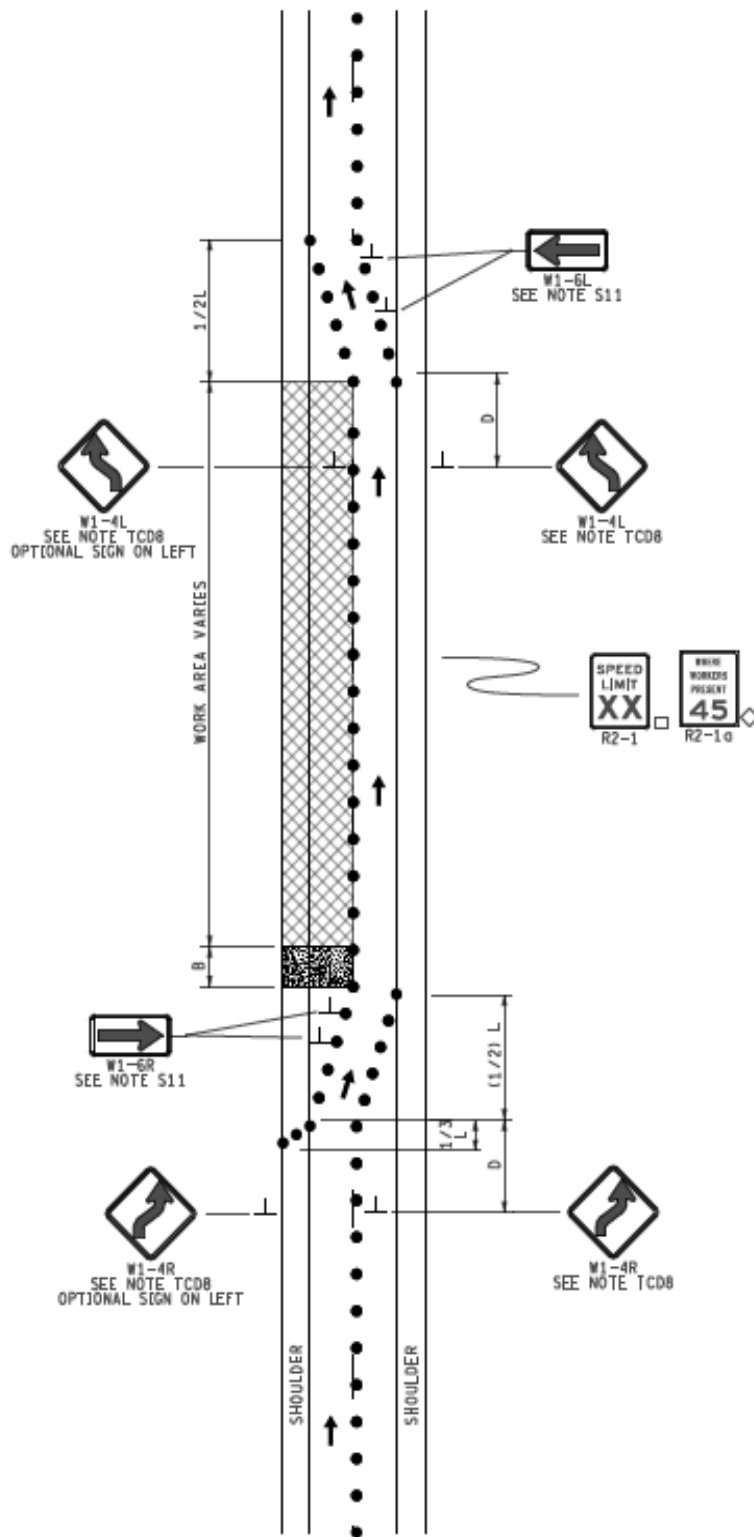
- CHANNELIZING DEVICES
- ← TRAFFIC FLOW
- PLACE SIGN AS INDICATED IN NOTE S5
- ◇ R2-1a OPTIONAL

STANDARD NOTES

(SEE 102-GEN-NOTES)
 GENERAL: G1, G2, G3, G5
 SIGNING: S1, S5, S8, S11
 DEVICES: TCD1, TCD2, TCD8

NOTE

PLACE ADDITIONAL SIGNS THAT ARE REQUIRED FOR A LANE CLOSURE.



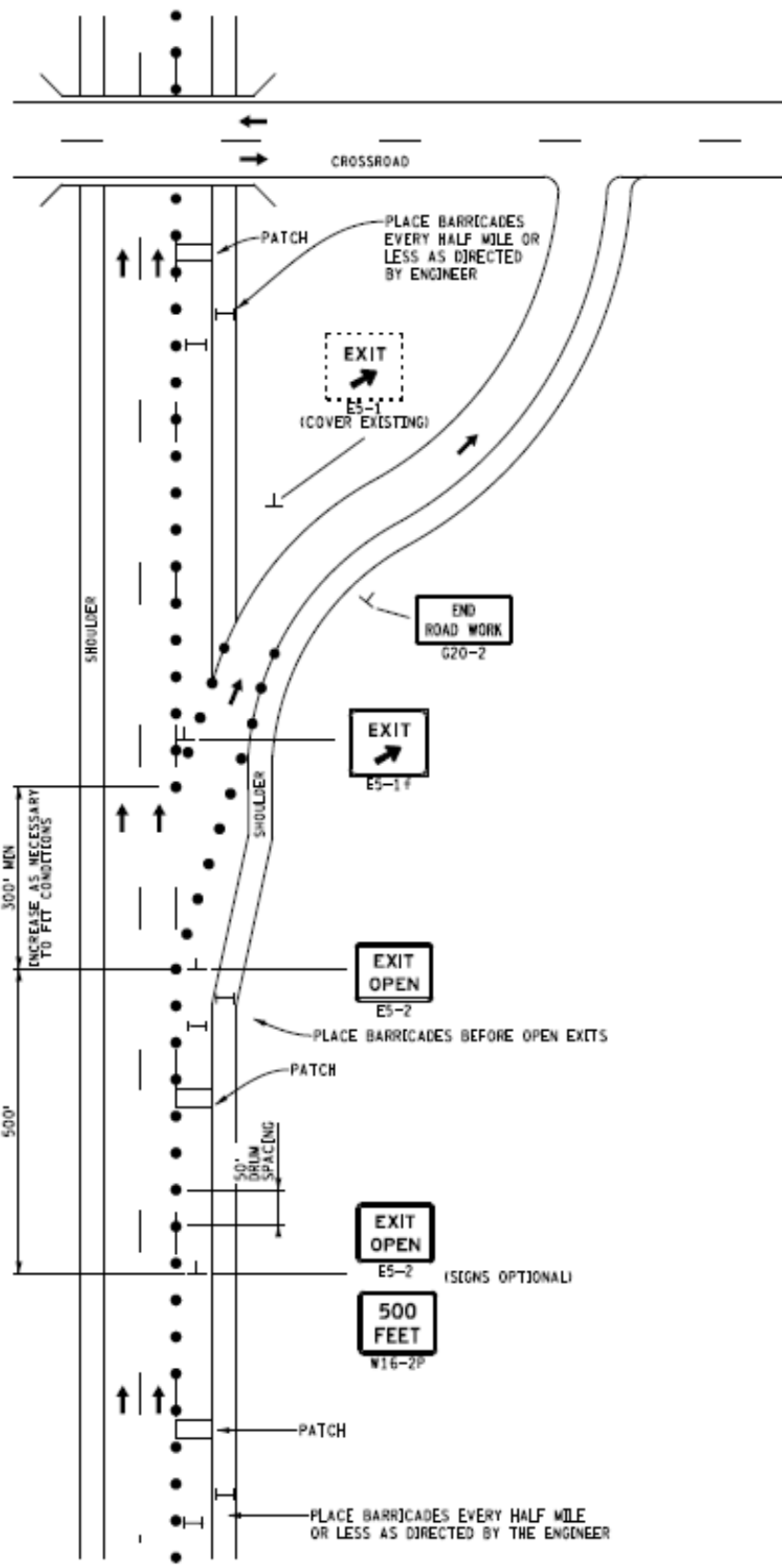
NOT TO SCALE

MAINTAINING TRAFFIC TYPICAL

NO:
 210-FW-SHIFT-1LC

1-LANE SHIFT WITHIN A LANE CLOSURE
 ON A 2-LANE FREEWAY OR DIVIDED ROADWAY

DATE:
 DECEMBER 2021
 SHEET:



KEY

- DRUMS
- ← TRAFFIC FLOW
- ⊥ TYPE III BARRICADE

STANDARD NOTES

(SEE 102-GEN-NOTES)
 GENERAL: G1, G2, G3, G4
 SIGNING: S1
 DEVICES: TCD1, TCD2, TCD3, TCD7
 RAMP: RMP1

NOTE

TYPE III BARRICADES SHOULD BE STAGGERED TO ALLOW FOR CONSTRUCTION VEHICLE ACCESS.
 CONES, IF USED, MAY BE PLACED TO DELINEATE CONCRETE PATCHES BUT MUST BE POSITIONED A MINIMUM OF 2'-0" BEHIND THE DRUM LINE. DO NOT USE 42" CHANNELIZING DEVICES/GRABBER CONES TO DELINEATE CONCRETE PATCHES. CAUTION/HAZARD TAPE OR STRING LINE ARE NOT ALLOWED TO BE ATTACHED TO ANY CHANNELIZING DEVICES.



NOT TO SCALE

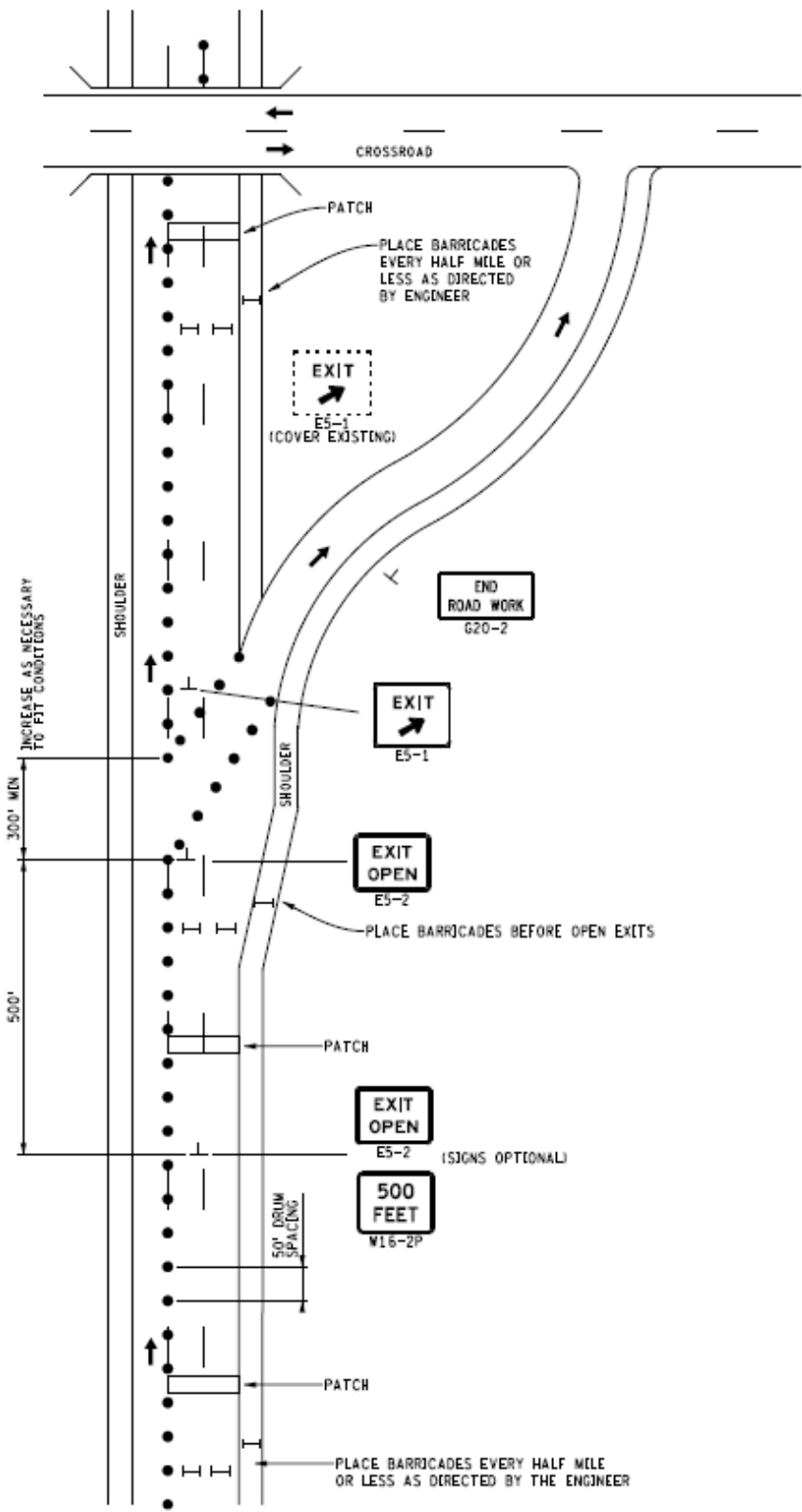
MAINTAINING TRAFFIC TYPICAL

NO:
302-SP-PATCH-1LC

CONCRETE PATCH
 1 LANE CLOSURE

DATE: MAY 2021

SHEET:



KEY

- ... DRUMS
- ← TRAFFIC FLOW
- ⊥ TYPE III BARRICADE

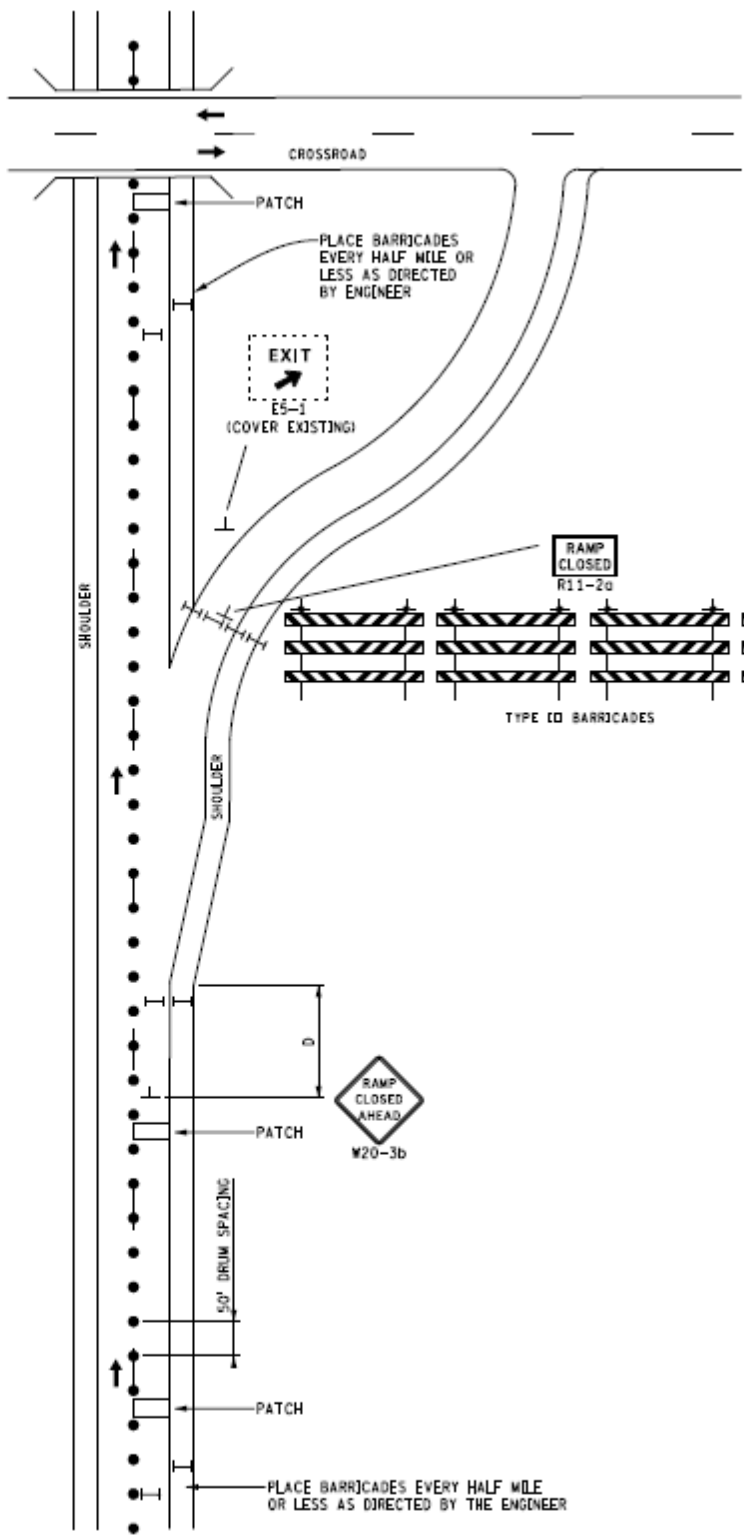
STANDARD NOTES

(SEE 102-GEN-NOTES)
 GENERAL: G1, G2, G3, G4
 SIGNING: S1
 DEVICES: TCD1, TCD2, TCD3, TCD7
 RAMP: RMP1

NOTE

TYPE III BARRICADES SHOULD BE STAGGERED TO ALLOW FOR CONSTRUCTION VEHICLE ACCESS.
 CONES, IF USED, MAY BE PLACED TO DELINEATE CONCRETE PATCHES BUT MUST BE POSITIONED A MINIMUM OF 2'-0" BEHIND THE DRUM LINE. DO NOT USE 42" CHANNELIZING DEVICES/GRABBER CONES TO DELINEATE CONCRETE PATCHES. CAUTION/HAZARD TAPE OR STRING LINE ARE NOT ALLOWED TO BE ATTACHED TO ANY CHANNELIZING DEVICES.

	NOT TO SCALE	MAINTAINING TRAFFIC TYPICAL	CONCRETE PATCH 2 LANE CLOSURE	DATE: MAY 2021
		NO: 303-SP-PATCH-2LC		SHEET: 1 OF 1



KEY

- DRUMS
- ← TRAFFIC FLOW
- △ PLACE TYPE D2 BARRICADES AS INDICATED IN NOTE TCD7
- ⊥ TYPE D1 BARRICADE

STANDARD NOTES

(SEE 102-GEN-NOTES)

GENERAL: G1, G2, G3, G4
 SIGNING: S1
 DEVICES: TCD1, TCD2, TCD3, TCD7

NOTE

CONES, IF USED, MAY BE PLACED TO DELINEATE CONCRETE PATCHES BUT MUST BE POSITIONED A MINIMUM OF 2'-0" BEHIND THE DRUM LINE. DO NOT USE 42" CHANNELIZING DEVICES/GRABBER CONES TO DELINEATE CONCRETE PATCHES. CAUTION/HAZARD TAPE OR STRING LINE ARE NOT ALLOWED TO BE ATTACHED TO ANY CHANNELIZING DEVICES.



NOT TO SCALE

MAINTAINING TRAFFIC TYPICAL

NO: 304-SP-PATCH-1LC-EXR-C

CONCRETE PATCH

1 LANE AND EXIT RAMP CLOSURE

DATE: MAY 2021

SHEET:

1 OF 1



Bid Form

Contract For MDOT Concrete Joint & Pavement Repairs on I-96

Anticipated Concrete Quantity: 370 CYD

Concrete Pavement Repairs Cost per CYD \$ _____

Maintenance Of Traffic (1 LSUM) \$ _____

Mobilization (1 LSUM) \$ _____

Minor Traffic Devices (1 LSUM) \$ _____

Minor Traffic Devices (1 LSUM) \$ _____

Total \$ _____

State License Number -----

MDOT Prequalified Copy _____

Years of Experience _____

References of contracts completed in this type of installation

Co. Name _____ Contact Person _____ Phone# _____

Co. Name _____ Contact Person _____ Phone# _____

Co. Name _____ Contact Person _____ Phone# _____

Warranty per specifications _____

Fed. **Emp. ID#** -----

Authorized Signature

Date

Print Name / Title

Phone Number

Company Name

Fax Number

Address

Cell Phone Number

City, State, ZIP

Email address

