

ROAD COMMISSION FOR IONIA COUNTY

170 E. Riverside Drive • P.O. Box 76 • Ionia, Michigan 48846 • Phone (616) 527-1700 • Fax (616) 527-8848

CHARLES G. MINKLEY
Commissioner

WILLIAM E. WEISGERBER
Commissioner

KENNETH L. GASPER
Commissioner

ALBERT A. ALMY
Commissioner

KAREN D. BOTA
Commissioner

DOROTHY G. POHL, CPA
Managing Director

PAUL A. SPITZLEY, P.E.
County Highway Engineer

NOTICE TO BIDDERS

Sealed bids will be received by the Board of Ionia County Road Commissioners until 11:00 a.m. on Tuesday, August 23, 2016 at which time they will be publicly opened and read in the Ionia County Road Commission office for:

Bridge Deck Repair on M-43 in BARRY COUNTY

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 Ionia County Road Commission and/or the Michigan Department of Transportation.

Further information on which bids shall be based is available at the road commission office; phone (616) 527-1700 or www.ioniacountyroads.org on the "Doing Business" page. The bid form is to be returned in a sealed envelope and plainly marked "Sealed Bid" and labeled as to the contents within, and shall include the name and address of the bidder.

The Ionia County Road Commission and/or Michigan Department of Transportation reserve the right to reject any and all proposals or to waive irregularities therein, and to accept any proposals which, in their opinion, may be most advantageous and in the best interest of the Ionia County Road Commission and the Michigan Department of Transportation.

Board of County Road Commissioners Ionia County, Michigan

Albert A. Almy – Chair

Karen D. Bota – Vice Chair

Charles G. Minkley – Member

Kenneth L. Gasper – Member

**BOARD OF COUNTY ROAD COMMISSIONERS
of the County of Ionia**

INSTRUCTIONS TO BIDDERS

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

Refer to the **NOTICE TO BIDDERS** 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.

The Board's normal practice is to open and read the bids then refer the file to staff for tabulation and analysis. During this period, bid files are closed and will remain closed until presented to the Board of County Road Commissioners at their next regular meeting. Notifications of award, pending award, or other outcome, will be made in writing. The bid tabulation will accompany award, as is customary for item bid, or may be requested by phone at (616) 527-1700.

1. All bids must be submitted on the Board's blank form when provided. The bid shall be legibly prepared in ink or typewriter. Erasures or alterations must be initialed by the bidder.
2. Specifications and plans should not be returned unless otherwise stated herein.
3. **Bid shall be in a sealed envelope and identified on the outside as to the bid concerned.** Bids shall be mailed or delivered. Bids will NOT be accepted by fax or email.
4. 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 for opening same and shall assume the risk of late delivery or non-delivery regardless of the manner employed for the transmission thereof. Bids will be accepted at the Road Commission office on behalf of the Board at any time during normal business hours only, said hours being 6:00 a.m. to 4:00 p.m., Monday through Thursday, with the exception of legal holidays.
5. It is understood that the Board of County Road Commissioners is a governmental unit and as such, is 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, by 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 Board reserves the right to reject any and all bids, to waive any irregularities therein, and to accept any bid which, in the opinion of the Board, may be most advantageous and to the best interest of the County. In case of error in the extension of prices in the bid or other arithmetical error, the unit prices will govern.

**Bid Form for:
Bridge Deck Repair on M-43
in Barry County**

<u>Item Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Extended Price</u>
Preforemd Waterporofing Membrane	170	Syd		
Con, Deck Surface Repr	13	Cyd		
HMA, 4E1	84	Ton		
Pavt for Butt Joints, Rem	338	Syd		
Cold Milling HMA Surface	170	Syd		
Minor Traffic Devices	1	LS		
Sign, Type B, Temp, Prismatic, Furn	246	Sft		
Sign, Type B, Temp, Prismatic, Oper	246	Sft		
Channelizing Device, 42 inch, Furn	40	Ea		
Channelizing Device, 42 inch, Oper	40	Ea		
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp	800	Ft		
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow Temp	1000	Ft		
Paxt Mrkg, Cover, Type R, Black	1250	Ft		
Barricade, Type III, Double Sided, Lighted, Furn	4	Ea		
Barricade, Type III, Double Sided, Lighted, Oper	4	Ea		
PTS System, Temp, Furn	2	Ea		
PTS System, Temp, Oper	2	Ea		
Pavt Mrkg, Waterborne, 4 inch, Yellow	240	Ft		

**Bid Form for:
Bridge Deck Repair on M-43
in Barry County**

Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	240	Ft		
Pavt Mrkg, Waterborne, 6 inch, White	60	Ft		
Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	60	Ft		
			<u>Total</u>	

Company Name _____

Company Address _____

Telephone Number: _____ Fax: _____ Cell Ph: _____

Email _____

Signature and Title of Authorized Agent: _____

written

typed/printed

Date: _____

Federal Employer ID Number _____

LOG OF PROJECT

LOCATION

This project commences on M-43 over the Little Thornapple River (B03 of 08012) from POB TO POE, Carlton Township, in Barry County.

DESCRIPTION OF WORK

This work consists of fine tooth milling to a maximum depth of ¼ into concrete deck, deck patching, placing preformed waterproofing membrane, and HMA overlay.

ROADWAY ITEMS

Preformed Waterproofing Membrane	170	Syd
Con, Deck Surface Repr	13	Cyd
HMA, 4E1	84	Ton
Pavt for Butt Joints, Rem	338	Syd
Fine Tooth Cold Milling HMA Surface	170	Syd

TEMPORARY ROADWAY TRAFFIC CONTROL ITEMS

The following items shall be used throughout the project at locations as directed by the Engineer.

Minor Traffic Devices	1	LS
Sign, Type B, Temp, Prismatic, Furn	246	Sft
Sign, Type B, Temp, Prismatic, Oper	246	Sft
Channelizing Device, 42 inch, Furn	40	Ea
Channelizing Device, 42 inch, Oper	40	Ea
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp	800	Ft
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch Yellow, Temp	1000	Ft
Pavt Mrkg, Cover, Type R, Black	1250	Ft
Barricade, Type III, Double Sided, Lighted, Furn	4	Ea
Barricade, Type III, Double Sided, Lighted, Oper	4	Ea
PTS System, Temp, Furn	2	Ea
PTS System, Temp, Oper	2	Ea

PERMANENT PAVEMENT MARKING ITEMS

Pavt Mrkg, Waterborne, 4 inch, Yellow	240	Ft
Pavt Mrkg, Waterborne, 2 nd Application, 4 inch, Yellow	240	Ft
Pavt Mrkg, Waterborne, 6 inch, White	60	Ft
Pavt Mrkg, Waterborne, 2 nd Application, 6 inch, White	60	Ft

GENERAL PLAN NOTES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

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 single address or rte.missdig.org, a minimum of 3 business days prior to excavating, excluding weekends and holidays.

OLD PLANS

The following old plans were referred to in the design of this Project:
Control Section 08012; Job MB2 of 8-4-3

In addition, other old plans that predate this project may be available. These plans may be reviewed in the Grand Rapids TSC office during normal working hours.

PUBLIC PROPERTIES

The contractor shall not park any vehicles or store any equipment on any public recreational property. Access to the recreational site must be maintained at all times.

NOTES APPLYING TO STANDARD PLANS

Where the following related items are called for in the Log of Projects, they are to be constructed according to the Standard Plan given next to each item unless otherwise indicated.

Longitudinal Line Types and Placement
Ground Driven Sign Supports for Temp Signs
Temporary Traffic Control Devices

PAVE-905-C
WZD-100-A (Special Detail)
WZD- 125-E (Special Detail)

PROGRESS CLAUSE: The Contractor shall start work within ten (10) days after receiving Award from the Department, or on the date designated as the starting date in the Detailed Progress Schedule as agreed upon with the Engineer. In no case shall any work be commenced prior to receipt of Award to proceed by the Department.

No field work shall be performed prior to **September 1, 2016**; unless an earlier start date is approved by the Engineer.

The entire project shall be completed on or before **October 15, 2016**.

Maximum number of calendar days from start to completion shall be 21 days. The contractor shall not work on Saturdays or Sundays. Saturdays and Sundays will not be counted as calendar days.

Failure by the Contractor to meet any of the above requirements, final and/or any open to traffic dates on this project will result in the assessment of liquidated damages in accordance with subsection 108.10.C.1 of the Standard Specifications for Construction.

Liquidated Damages will continue to be assessed for each calendar day or portion of a day that this work remains incomplete even if these days extend beyond the normal seasonal suspension date of November 15th.

All local noise and dust control ordinances shall apply to this project.

The low bidder(s) for the work covered by this proposal will be required to meet with Department representatives to submit a detailed progress clause. The Grand Rapids TSC Construction Engineer will arrange the time and place for the meeting. The named subcontractor(s) for Designated and/or Specialty Items, as shown in the proposal, is (are) recommended to be at the preconstruction meeting if such items materially affect the work schedule.

The Progress Schedule shall include, as a minimum, the controlling work items for the completion of the project and the planned dates that these work items will be controlling operations.

Failure on the part of the Contractor to carry out the provisions of the Progress Schedule, as established, may be considered sufficient cause to prevent bidding future projects until a satisfactory rate of progress is again established.

FINAL August 1, 2016

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
CONCRETE FOR BRIDGE DECK SURFACE REPAIR (7 SACK)

DES:GEF

1 of 3

APPR:JAB:CER:02-15-13

- a. Description.** This work consists of repairing bridge deck spalls at locations not adjacent to joints, as directed by the Engineer. The Contractor must use the concrete mixture described in this special provision, unless otherwise specified on the plans. All work must be in accordance with the standard specifications, except as modified herein.
- b. Materials.** Provide materials in accordance with standard specifications.

Concrete mixture must contain the following materials per cubic yard:

Mix Water (total)	282 pounds
Net w/c Ratio	0.38
Portland Cement, Type I	658 pounds
2NS Fine Aggregate, Dry	1475 pounds
26A Coarse Aggregate, Dry	1519 pounds
FA/TA Ratio by Absolute Vol.	0.50
Mid-Range (Type MR) Water Reducer	manufacturer's recommendation

FA/TA = Fine Aggregate to Total Aggregate ratio

Concrete air-entrainment and slump will be as follows:

Entrained Air	5.0 - 8.0 percent
Slump after addition of Water Reducer.	2 - 6 inches

Values are assumed for the fine aggregate (specific gravity of 2.64 and absorption of 0.95) and coarse aggregate (specific gravity of 2.72, absorption of 1.10, and unit weight of 89 pounds per cubic foot). Make the necessary proportion adjustments for aggregate absorption and specific gravity and submit the adjusted mix design to the Engineer 5 days prior to concrete placement.

Curing compound must be linseed oil based and must meet the requirements of subsection 903.07.A of the Standard Specifications for Construction.

Insulating blankets must meet the requirements of subsection 903.07.C of the Standard Specifications for Construction.

- c. Equipment.** Selected equipment must be in accordance with the requirements specified in section 712 of the Standard Specifications for Construction. Lightweight (35 pound Class, maximum) chipping hammers must be used to prepare the repair area, unless otherwise approved by the Engineer.

d. Construction.

1. **Temperature Limitations.** Do not place concrete at air temperatures below 50 degrees F, nor above 90 degrees F. The top surface of the concrete must be covered with insulating blankets, having a minimum R Value as specified in Table 706-1 of the Standard Specifications for Construction, when the air temperature is below 60 degrees F. Cure all test specimens used for opening to traffic strength measurements in the same manner as the in-situ concrete. Leave insulating blankets in place until immediately prior to opening to traffic.
2. **Repair Area Preparation.** Sawcut the perimeter of the repair to a minimum depth of 1½ inches. Remove all unsound concrete and bituminous patching material from the repair area with chipping hammers in accordance with subsection 712.03.F of the Standard Specifications for Construction. After chipping is complete sound all surfaces of the repair area using an appropriate steel hammering device to ensure thorough detection, and thus complete removal of all unsound materials. Remove scale or accumulated rust from all reinforcing steel by blast cleaning. Where reinforcing steel is exposed for more than 1/2 of its diameter, remove the concrete a minimum of 3/4 inch below the exposed steel. Remove and replace damaged reinforcing steel in accordance with subsection 712.03.I of the Standard Specifications for Construction. Where there is full depth removal of portions of the deck, install false decking in accordance with subsection 706.03.B of the Standard Specifications for Construction. Sandblast all surfaces of the repair area to remove all contamination, followed by a final cleaning with oil-free compressed air having a minimum pressure of 90 psi.
3. **Concrete Placement, Finishing, and Texturing.** Prior to concrete placement, wet the repair surface so that it is damp without excess water. Place and screed the concrete to the elevation of the surrounding surface. Seal all edges with mortar by working outward toward the surrounding concrete. Texture the concrete surface in accordance with subsection 706.03.M.3 of the Standard Specifications for Construction.
4. **Curing.** Immediately after finishing and texturing, apply curing compound to all exposed freshly placed concrete surfaces at a minimum rate of 1 gallon per 150 square feet of surface. The concrete surfaces must then be continuously cured with wet burlap. The burlap must be soaked in water for a minimum of 12 hours prior to its use. Cover the concrete surface with the wet burlap as soon as the curing compound has dried sufficiently to prevent adhesion, and the concrete surface will support it without deformation, but not more than 2 hours after the concrete was cast. Securely place plastic sheeting over the burlap to protect the top surfaces from evaporation. If insulating blankets are used to protect the concrete, they must be securely placed over the plastic sheeting. The continuous wet cure must remain in place for 7 days, or until just prior to opening to traffic, as specified.
5. **Opening to Traffic.** The minimum concrete compressive strength of 2000 psi must be attained prior to opening to traffic.
6. **Strength Requirements.** Strength requirements will be as specified in Table 701-1 of the Standard Specifications for Construction for Grade D concrete.

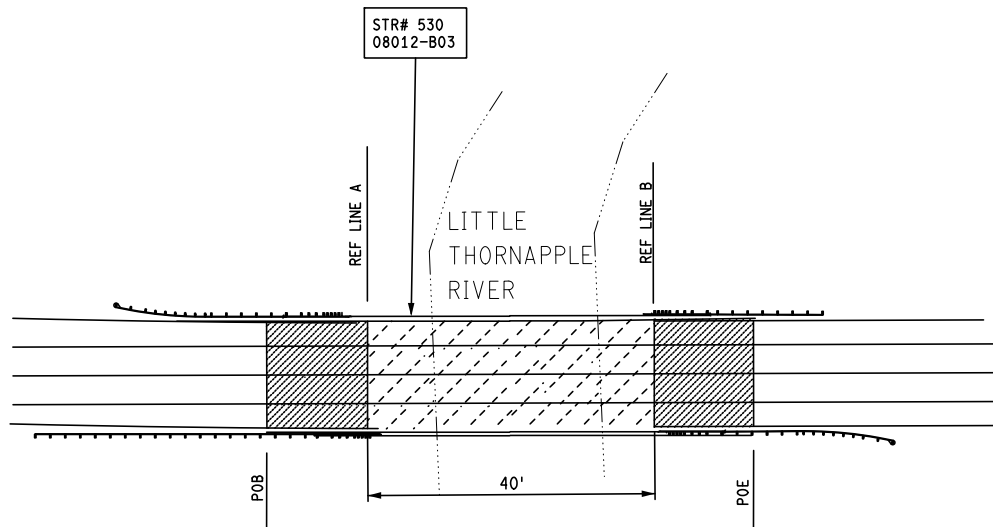
- e. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item


Pay Unit

Conc, Deck Surface ReprCubic Yard

Conc, Deck Surface Repr will be measured in cubic yards based on actual concrete placed, as determined by automated batch plant ticket printouts. Deductions will be made for wasted or rejected materials. Payment for **Conc, Deck Surface Repr** includes all labor, equipment and material necessary for removal of the existing material and forming, furnishing, placing, finishing, and curing the concrete according to this special provision.

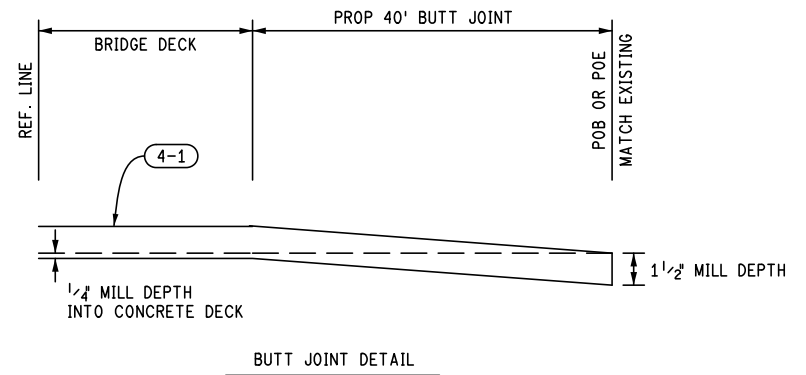


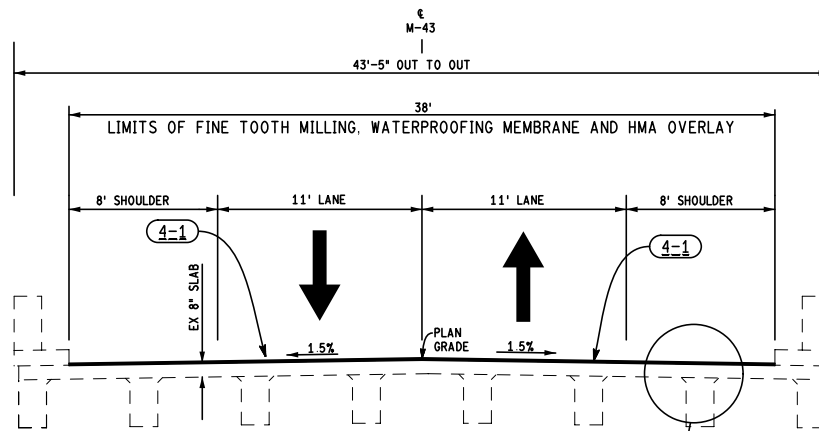
 FINE TOOTH MILL TO A DEPTH OF 1/4" MAX

 PAVT FOR BUTT JOINTS, REM

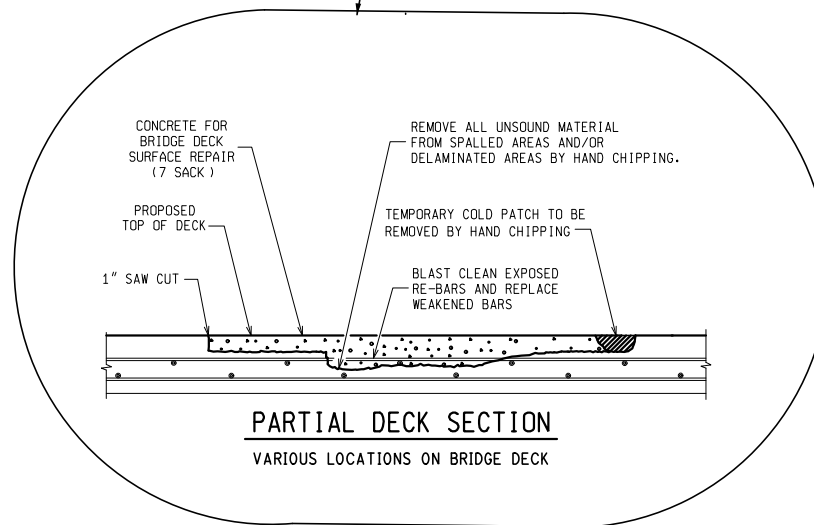
NOTE:

FOR INFORMATION ONLY:
DO NOT WORK FROM THIS SHEET.
THE INFORMATION SHOWN HERE IS
FOR INFORMATION ONLY.
NO PAY ITEMS ARE SHOWN.





BRIDGE DECK RESURFACING
REF. LINE A TO REF. LINE B

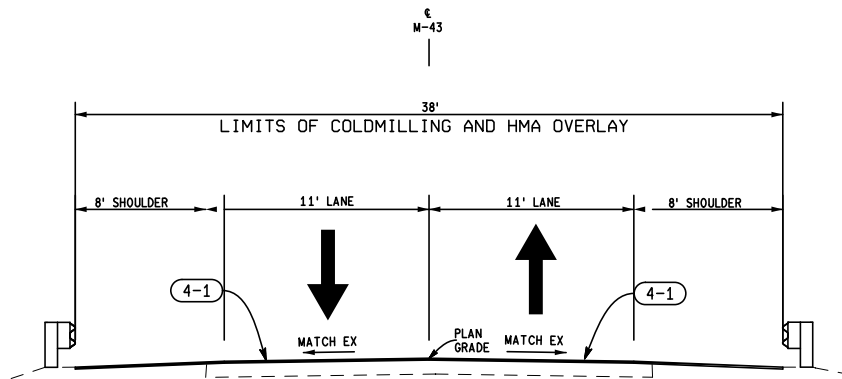


HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
4-1	HMA 4E1	170 + VAR	58 - 28	TOP COURSE (AWI = 260)
	* BOND COAT	0.05-0.15 GAL		

*FOR INFORMATION ONLY

	<p>NO SCALE</p>	DATE: 7/29/16	CS: 08012	DECK REPAIR ON M-43 (B03-08012)	DRAWING	SHEET
		DESIGN UNIT: VANDRUNEN	JN: 126873A (B03-08012)		M-43	SECT 1
FILE: M-43_BRIDGE_TYPICAL.dgn		TSC: GRAND REGION			TYP	



APPROACH TYPICAL TO APPLY
 40' W OF REF. LINE A TO REF. LINE A
 REF. LINE B TO 40' E OF REF. LINE B