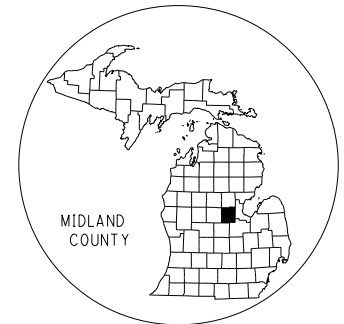


# MICHIGAN DEPARTMENT OF TRANSPORTATION

ROUTE: US-10  
MIDLAND TOWNSHIP  
MIDLAND COUNTY



MIDLAND COUNTY

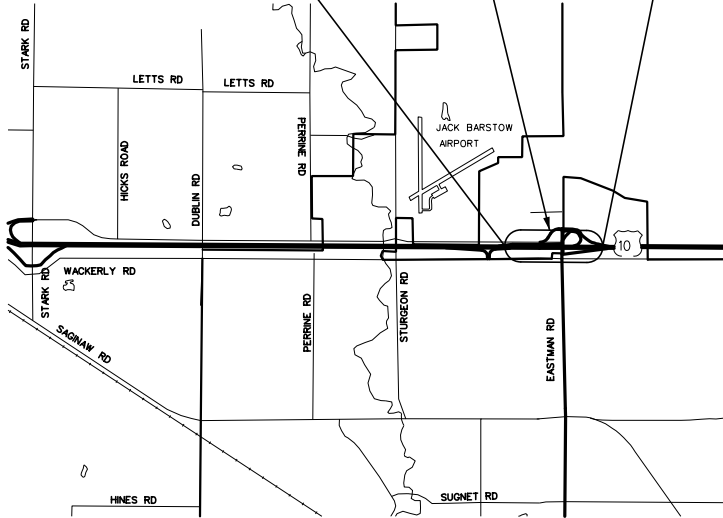
COUNTY KEY

CONTROL SEC      JOB NO.  
56044                      21-56001

POB  
PR 0884607    MP 20.146  
CS 56044        MP 13.308

POE  
PR 0884607    MP 20.727  
CS 56044        MP 13.889

PROJECT LOCATION



THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION. PHYSICAL ROAD NUMBER (PR#) & MILEPOST (MP) DATA ARE FROM MICHIGAN GEOGRAPHIC FRAMEWORK VERSION # 18.

MILES: .581  
CONTRACT FOR:  
CONCRETE PAVEMENT REPAIRS, AND PERMANENT PAVEMENT MARKINGS ON US-10



PAUL C. AJEGBA, P.E. - DIRECTOR

DATE: 7/9/21  
DESIGN UNIT: ATKINSON  
TSC: MT. PLEASANT

US-10  
CONCRETE PATCHES

DRAWING	SHEET
TITLE	SECT 1
1	1

# LOG OF PROJECT

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## JOB LOCATION AND DESCRIPTION

### PROGRESS SCHEDULE

Work may begin immediately after receiving approval from MDOT. Once work has commenced the contractor will have 10 consecutive workdays to complete all work. Work at all locations must be completed by September 17, 2021. Notice must be provided to Jason Potts at 989-737-0211 five (5) calendar days prior to beginning any work.

### LOCATION

This project takes place on WB US-10 beginning in Midland Township, Midland County at the pavement change 1,330 ft east of Eastman Rd and continuing westerly to the pavement change 1,735 ft west of Eastman Rd in Midland Township, Midland County.

#### **CS/PR Information**

CS 56044 MP 13.308 (POB) to MP 13.889 (POE)

PR 0884607 MP 20.146 (POB) to MP 20.727 (POE)

Location Length = .581 miles

### DESCRIPTION OF WORK

The work shall consist of concrete pavement repairs. The locations of the repairs are as shown below. The dimensions of each lane repair will be the width of the lane (12') with the repair lengths as shown below. Each Longitudinal Joint repair shall be 3' in width by the length shown. The engineer may change the location or dimensions of the following as long as the overall area of pavement repairs is maintained. A reference point was established at the East end of the project as 0+00 with stationing increasing with the flow of traffic to heading West.

US-10 (WB)	Repair Location (Station)	Lane Repair		Longitudinal Joint	
		Repair Length (FT) Passing Lane	Repair Length (FT) Slow Lane	Repair Length (FT) CL Joint	Repair Length (FT) Joint between ramp and slow lane
Patch 1	0+12	6			
Patch 2	0+53	7	7		
Patch 3	1+59		4.5		
Patch 4	1+85		4.5		
Patch 5	2+11	6	4.5		
Patch 6	2+51		4.5		

# LOG OF PROJECT

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Patch 7	2+77	5	5		
Patch 8	3+56	4.5	4.5		
Patch 9	4+34	4.5			
Patch 10	4+46		4.5		
Patch 11	5+79		4.5		
Patch 12	5+91		6		
Patch 13	6+18	5			
Patch 14	6+44	5			
Patch 15	6+70		5		
Patch 16	7+23		5		
Patch 17	7+49	5	5		
Patch 18	8+80	4.5			
Patch 19	9+33		4.5		
Patch 20	9+85	5			
Patch 21	11+16	4.5			
Patch 22	11+43	4.5			
Patch 23	11+72	4.5	4.5		
Patch 24	11+95	4.5	4.5		
Patch 25	12+36	4.5	4.5		
Patch 26	14+90			143	
Patch 27	16+25	4.5			
Patch 28	16+51	4.5	4.5		
Patch 29	16+53				38
Patch 30	17+00				59
Patch 31	17+83	4.5			
Patch 32	18+20			16	
Patch 33	18+61	4.5			
Patch 34	18+88		4.5		
Patch 35	19+14	5	5		
Patch 36	19+40	7	7		
Patch 37	19+67		5		
Patch 38	19+93	5	5		
Patch 39	20+19	4.5	4.5		
Patch 40	20+34			12	
Patch 41	20+45		5		
Patch 42	20+71	8			
Patch 43	20+97		5		
Patch 44	21+24		5		
Patch 45	21+48			30	
Patch 46	21+50	6	6		
Patch 47	21+77	8	8		
Patch 48	22+29		5		

# LOG OF PROJECT

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Patch 49	22+55		5		
Patch 50	25+44	5			
Patch 51	26+23		5		
Patch 52	26+49		5		
Patch 53	27+28		4.5		
Patch 54	27+55		4.5		
Patch 55	28+33		5		
Patch 56	29+38	7			
Patch 57	29+91	7			
Patch 58	30+00			15	
Patch 59	30+44	9			
Patch 60	30+65	5			
	<b>Total</b>	<b>174.5 ft 233 syd</b>	<b>185 ft 247 syd</b>	<b>216 ft 72 syd</b>	<b>97 ft 32 syd</b>

The pavement repair section will consist of matching the existing left in place concrete depth up to 10". For areas where existing concrete exceeds 10" in depth, additional aggregate base should be placed and compacted prior to placing concrete. The final repair shall be flush with the existing road surface, and will match the existing cross slope.

## MAINTAINING TRAFFIC

### Traffic Restrictions

Maintaining traffic will be accomplished with lane closures utilizing Maintaining Traffic Typical

101-GEN-SPACING-CHARTS  
102-GEN-NOTES  
104-GEN-AB  
105-GEN-SPEED-FW  
107-GEN-SPEED  
203-FW-1LC-(R)  
204-FW-1LC-(L)  
221-FW-EnR-O-LC-FREE  
222-FW-EnR-O-LC-YIELD  
231-FW-ExR-O-LC

Additionally, traffic shall be maintained according to Sections 104.07, 104.11, and 812 of the 2012 Standard Specifications for Construction, including any Supplemental Specifications, and as specified herein.

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The Contractor shall not create any unsafe conditions within the Construction Influence Area (CIA) that form a hazard for motorists. Extra caution should be used when delineating the work zone overnight to protect the roadway users.

Both lanes of Westbound US-10 shall be open to traffic by Friday at 12:00 pm until Monday at normal starting time.

No work shall be performed, or lane closures allowed during the Labor Day holiday period. The Labor Day holiday period shall be defined as beginning on Thursday September 2<sup>nd</sup> through Wednesday September 8<sup>th</sup> at normal starting time.

Once work is initiated that includes any lane restrictions, that work shall be continuous until completed. A lack of work activity for more than two calendar days will require the removal and replacement of lane or shoulder restrictions, at the Contractor's expense.

The storage restrictions in section 812.03.G.5 of the 2012 Standard Specifications for Construction will be strictly adhered to. The Contractor shall not park any vehicle or store any material on public recreational property.

Daily maintenance of traffic control items will not be paid for separately, but will be included in the lump sum price for the project.

## **ESTIMATED QUANTITIES**

**The quantities included on the plan sheets and the summations below are approximate and for reference only. Contractor will be responsible for verifying quantities before bidding by site inspection and plan review. If any major discrepancies are noted, contractor must contact Scott Badger at (989) 280-4057.**

**This project is a Maintenance funded project, which means that there will be absolutely no overpayment or extras. All material, labor and mobilization shall be included in the bid.**

MDOT will have the low bid reviewed and approved for funding. MDOT reserves the right to reject any bid that appears to be unqualified. Before award, MDOT may request a site and plan review meeting with the low bid contractor. The contractor must provide a pricing schedule using the table included with the request for bid. MDOT reserves the right to modify the quantities shown based on the availability of funds.

# LOG OF PROJECT

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## Items of Work

Pavt Repr, Rem	584	Syd
Saw Cut, Intermediate	45	Ft
Aggregate Base	10	Ton
Joint, Contraction, Crg	828	Ft
Lane Tie, Epoxy Anchored	385	Ea
Pavement Repr, Nonreinf Conc, 10 inch	584	Syd
Lighted Arrow, Type C, Furn	1	Ea
Lighted Arrow, Type C, Oper	1	Ea
Plastic Drum, Fluorescent, Furn	180	Ea
Plastic Drum, Fluorescent, Oper	180	Ea
Sign Cover	10	Ea
Sign, Type A, Temp, Prismatic, Furn	22	Sft
Sign, Type A, Temp, Prismatic, Oper	22	Sft
Sign, Type B, Temp, Prismatic, Furn	508	Sft
Sign, Type B, Temp, Prismatic, Oper	508	Sft

## GENERAL NOTES

### **SPECIFICATIONS FOR CONSTRUCTION**

The improvements covered by these plans shall be done in accordance with the MDOT 2012 Standard Specifications for Construction.

### **UNDERGROUND UTILITIES / MISS DIG**

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](http://elocate.missdig.org) for single address or [rte.missdig.org](http://rte.missdig.org), a minimum of 3 business days prior to excavating, excluding weekends and holidays.

### **STATIONING**

Stationing on this project was taken from Right-of-Way plans and from measurements made in the field. The stationing is not necessarily accurate.

### **AGGREGATE BASE**

Aggregate bases shall use aggregate 21AA, unless otherwise specified. Required aggregate base shall be included in the bid price for the lump sum bid.

# LOG OF PROJECT

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## CONCRETE

The type of concrete to be used on this project for the pavement repairs is Type P-NC. It is the contractor's responsibility to ensure strength requirements are met prior to opening to traffic.

## RECREATIONAL PROPERTIES

The Contractor shall not park any vehicles or store any equipment on public recreational property. Access to the recreational properties must also be maintained at all times. Non-compliance, even without the knowledge and approval of MDOT personnel, can result in penalties up to and including termination of the construction contract and loss of federal funding for the project. Should there be any questions regarding this requirement, contact the MDOT Environmental Services Section at (517) 373-8350.

## Notes Applying to Standard Plans

Where the following items are called for on the plans, they are to be constructed according to the Standard Plan or Special Detail given below opposite each item unless otherwise indicated.

Transverse Pavement Joints.....	R-39-K
Load Transfer Assemblies for Transverse Joints.....	R-40-H
Longitudinal Pavement Joints.....	R-41-H
Typical Joint Layouts for Concrete Pavement.....	R-42-F
Location of Transverse Joints in Plain Concrete Pavement.....	R-43-I
Concrete Pavement Repair.....	R-44-F
Ground Driven Sign Supports for Temporary Signs .....	* WZD-100-A
Temporary Traffic Control Devices.....	*WZD-125-E

*\*indicates Special Detail*