### Relevant Sections

- **Public Utility Contact Information**
  - **City of Ann Arbor**
    - **WATER**: City of Ann Arbor Field Operations Service Unit
    - **SANITARY**: W. W. Whelan Service Center
    - **STORM**: 4311 Stone Schools Road
    - **FORESTRY**: Travis Conley (734) 996-2135
    - **SIGNS**: Matt Waatsmith (734) 794-3321
    - **STREET LIGHTS**: Chuck Fustin (734) 794-6341

- **Private Utility Contact Information**
  - **GAS**: ComEd
    - **CABLE**: Comcast
    - **PHONE**: AT&T
    - **FIBER OPTIC**: NO

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### Notes

- The underground locations and depths shown for all public and private utilities are approximate. The City of Ann Arbor, the University of Michigan, and DTE assume no responsibility for their accuracy. Use of this information in any form is at your own risk. It is the responsibility of the contractor to locate all marked and unmarked utilities prior to starting work and shall conduct his operations in such a manner as to ensure that those utilities not requiring relocation will not be disturbed.

- The contractor shall be responsible for the continuous maintenance of the temporary traffic control devices and soil erosion control measures within the construction area and approaches to project sites. The contractor shall be responsible for the protection of existing traffic control devices and may be held liable at all times as specified in maintaining traffic plans and specifications.

- A railroad permit is not required under the condition that the contractor keeps all workers, materials, vehicles, and equipment on the parking lots side of the pier between the area to be patched and the existing pier. In such circumstance the contractor shall conduct his operations in such a manner as to ensure that those items and shall not be paid for separately, but shall be included in the other bid items of work.

- Adhesive anchor systems shall be chosen from multi-hit-RE Geovex ceramic 6 x 6 x 6 inches. All anchors shall be installed according to the manufacturer's recommendations, except as modified in these plans. All reinforcement bars shall be new and be epoxy coated.

### Projects Information

- **Project Information**
  - **Railway Road and Huron River**
  - **Island Drive over Traver Creek**
  - **Broadway over Depot Street and MDOT Railroad**

### Requirements

- **Permits Required to be Obtained by the Contractor PRIOR TO THE BEGINNING OF CONSTRUCTION**
  - **LANE CLOSURE PERMIT**
  - **GRADING/OR DRAINAGE & SEGMENTATION CONTROL PERMIT**
  - **RIGHT-OF-WAY PERMIT**

*No cost to Contractor.*
### MISCELLANEOUS QUANTITIES

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<th><em>Broadway over MOD #B</em></th>
<th><em>Broadway over Huron River</em></th>
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### MAINTAINING TRAFFIC QUANTITIES

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<th>#Broadway Bridges</th>
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PLAN
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LEGEND
- 1-23456789
- 2-34567890
- 3-45678901
- 4-56789012

ISLAND DRIVE OVER TRAVER CREEK

LIGHTING CONDUIT
ATTACHMENT DETAIL

JOINT WATERPROOFING DETAIL

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
CITY OF ANN ARBOR
PUBLIC SERVICE
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2020-025
CITY OF ANN ARBOR 2020 BRIDGE CAPITAL PREVENTIVE MAINTENANCE REPAIRS

N 18 of 70
18 of 70
### Slab Reinforcing Steel List

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**Slab Total:** 1546

### Railing Reinforcing Steel List

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**Railing Total:** 2146

### Notes

**NOTES:**

- The information shown is only a representation of the actual state. The actual calculations or considerations may vary.
- All marks and dimensions are subject to change based on specific requirements or standards.

**Bar Legend:**

- [Diagram of bar legend]

**ISLAND DRIVE OVER TRAVER CREEK**

---

**City of Ann Arbor**

**Public Services**

**301 East Huron Street**

**P.O. Box 8647**

**Ann Arbor, MI 48107-8647**

**734-794-6410**

**www.a2gov.org**

---

**2020-025**

**City of Ann Arbor 2020 Bridge Capital Preventive Maintenance Repairs**

---

**E040500 5'-0" 24.00 80**

**E042908 29'-8" 52.00 1031**

**E061010 20'-10" 36.00 1453**

**E084208 42'-4" 24.00 1520**

**E085008 4'-6" 36.00 1000**

**E085008 5'-3" 36.00 460**

**ED060006 1-11" 12.00 171**

**ED061206 2-11" 12.00 220**

**Slab Total: 1546**

**EA040208 2'-5" 142.00 253**

**EA042908 29'-8" 52.00 1031**

**EA061010 20'-10" 36.00 1453**

**EA084208 42'-4" 24.00 1520**

**EA085008 4'-6" 36.00 1000**

**EA085008 5'-3" 36.00 460**

**ED060006 1-11" 12.00 171**

**ED061206 2-11" 12.00 220**

**Slab Total: 1546**

**EA040000 5'-0" 24.00 80**

**EA042908 29'-8" 12.00 238**

**EA060010 26'-10" 11.00 980**

**EA061008 42'-4" 36.00 1520**

**EA060508 5'-8" 36.00 306**

**EA060808 8'-8" 36.00 460**

**ED060906 1'-11" 16.00 264**

**ED061206 1'-11" 36.00 590**

**Railing Total: 2146**
MAINTAINING TRAFFIC
(BROADWAY OVER DEPOT STREET AND MDOT RAILROAD
& BROADWAY OVER HURON RIVER)

KEY

- PED DETOUR
- CHANNELIZING DEVICE, 42 INCH
- PED ESTABLISHMENT, 42 INCH FLUORESCENT
- CHANNELIZING DEVICE, 42 INCH FLUORESCENT (25' SPACING)
- CHANNELIZING DEVICE, 42 INCH FLUORESCENT (50' SPACING)
- PAINT MARKS, REFLECTIVE, TYPE R, TYPE 4, 6 INCH WHITE, TEMP (SOLID)
- PEDESTRIAN TYPE II BARRICADE, TEMP
- PEDESTRIAN TYPE II CHANNELIZER, TEMP
- PEDESTRIAN TYPE II CHANNELIZER, TEMP (SOLID)
- WORK ZONE
- TEMPORARY BUS STOP
- PLACE SIGNS AT 250' SPACING
- PLACEMENT OF WORK ZONE SIGNS

STAGE 1
APPLIES CLOSE WB OUTSIDE LANE

ZONE AHEAD
REDUCED SPEED LIMIT
25

APPLIES: CLOSE WB OUTSIDE LANE
MAINTAINING TRAFFIC
(ROADWAY OVER DEPOT STREET AND MDOT RAILROAD & ROADWAY OVER HURON RIVER)

KEY

- ROADWORK SIGNS AT WORK ZONE
- ROADWORK SIGNS AT WORK ZONE
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- ROADWORK SIGNS AT WORK ZONE

E SUMMIT ST
DEPOT ST
NORFOLK SOUTHERN RAILWAY

DEPOT ST
NORFOLK SOUTHERN RAILWAY

RENE ST

N DIVISION ST

HIGH ST

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
CITY OF ANN ARBOR 2023 BRIDGE CAPITAL PREVENTIVE MAINTENANCE REPAIRS

MAINTAINING TRAFFIC
MAINTAINING TRAFFIC
(BROADWAY OVER DEPOT STREET AND MDOT RAILROAD & BROADWAY OVER HURON RIVER)

STAGE 2
APPLIES CLOSE WB AND EB INSIDE LANES

KEY

- • SIGN TYPE 6, TEMP, PRISMATIC
- • BARREL, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED
- • PEDESTRIAN TYPE II BARREL, TEMP
- • PEDESTRIAN TYPE II CHANNELIZER, TEMP
- • WORK ZONE
- • PED DETOUR
- • CHANNELIZING DEVICE, 42 INCH
MAINTAINING TRAFFIC
(BROADWAY OVER DEPOT STREET AND MDOT RAILROAD & BROADWAY OVER HURON RIVER)
MAINTAINING TRAFFIC

1. SIGN TYPE B, TEMP, PRISMATIC
2. BARRIEDE TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED
3. PEDESTRIAN TYPE II BARRICADE, TEMP
4. PEDESTRIAN TYPE II CHANNELIZER, TEMP
5. WORK ZONE
6. PEDESTRIAN TYPE II CHANNELIZER, TEMP
7. PEDESTRIAN TYPE II BARRICADE, TEMP
8. PEDESTRIAN TYPE II BARRICADE, TEMP
9. PEDESTRIAN TYPE II BARRICADE, TEMP
10. WORK ZONE
11. PEDESTRIAN TYPE II CHANNELIZER, TEMP
12. PEDESTRIAN TYPE II BARRICADE, TEMP
13. PEDESTRIAN TYPE II BARRICADE, TEMP
14. WORK ZONE
15. PEDESTRIAN TYPE II CHANNELIZER, TEMP
16. PEDESTRIAN TYPE II BARRICADE, TEMP
17. PEDESTRIAN TYPE II BARRICADE, TEMP
18. WORK ZONE
19. PEDESTRIAN TYPE II CHANNELIZER, TEMP
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22. WORK ZONE
23. PEDESTRIAN TYPE II CHANNELIZER, TEMP
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25. PEDESTRIAN TYPE II BARRICADE, TEMP
26. WORK ZONE
27. PEDESTRIAN TYPE II CHANNELIZER, TEMP
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29. PEDESTRIAN TYPE II BARRICADE, TEMP
30. WORK ZONE
31. PEDESTRIAN TYPE II CHANNELIZER, TEMP
32. PEDESTRIAN TYPE II BARRICADE, TEMP
33. PEDESTRIAN TYPE II BARRICADE, TEMP
34. WORK ZONE
35. PEDESTRIAN TYPE II CHANNELIZER, TEMP
36. PEDESTRIAN TYPE II BARRICADE, TEMP
37. PEDESTRIAN TYPE II BARRICADE, TEMP
38. WORK ZONE
39. PEDESTRIAN TYPE II CHANNELIZER, TEMP
40. PEDESTRIAN TYPE II BARRICADE, TEMP
41. PEDESTRIAN TYPE II BARRICADE, TEMP
42. WORK ZONE
43. PEDESTRIAN TYPE II CHANNELIZER, TEMP
44. PEDESTRIAN TYPE II BARRICADE, TEMP
45. PEDESTRIAN TYPE II BARRICADE, TEMP
46. WORK ZONE
47. PEDESTRIAN TYPE II CHANNELIZER, TEMP
48. PEDESTRIAN TYPE II BARRICADE, TEMP
49. PEDESTRIAN TYPE II BARRICADE, TEMP
50. WORK ZONE
51. PEDESTRIAN TYPE II CHANNELIZER, TEMP
52. PEDESTRIAN TYPE II BARRICADE, TEMP
53. PEDESTRIAN TYPE II BARRICADE, TEMP
54. WORK ZONE
55. PEDESTRIAN TYPE II CHANNELIZER, TEMP
56. PEDESTRIAN TYPE II BARRICADE, TEMP
57. PEDESTRIAN TYPE II BARRICADE, TEMP
58. WORK ZONE
59. PEDESTRIAN TYPE II CHANNELIZER, TEMP
60. PEDESTRIAN TYPE II BARRICADE, TEMP
61. PEDESTRIAN TYPE II BARRICADE, TEMP
62. WORK ZONE
63. PEDESTRIAN TYPE II CHANNELIZER, TEMP
64. PEDESTRIAN TYPE II BARRICADE, TEMP
65. PEDESTRIAN TYPE II BARRICADE, TEMP
66. WORK ZONE
67. PEDESTRIAN TYPE II CHANNELIZER, TEMP
68. PEDESTRIAN TYPE II BARRICADE, TEMP
69. PEDESTRIAN TYPE II BARRICADE, TEMP
70. WORK ZONE

STAGE 3
APPLICATIONS: CLOSE EXISTING LANE

CHANNELIZING DEVICE, 42 INCH, TURQUOISE, 100' SPACING

CHANNELIZING DEVICE, 42 INCH, FLUORESCENT

CHANNELIZING DEVICE, 42 INCH, HIGH INTENSITY, DOUBLE SIDED, LIGHTED

CHANNELIZING DEVICE, 42 INCH, TEMP, PRISMATIC

PEDESTRIAN TYPE II BARRICADE, TEMP

PEDESTRIAN TYPE II CHANNELIZER, TEMP

WORK ZONE

PEDESTRIAN TYPE II BARRICADE, TEMP

PEDESTRIAN TYPE II CHANNELIZER, TEMP

PEDESTRIAN TYPE II BARRICADE, TEMP

PEDESTRIAN TYPE II CHANNELIZER, TEMP

M A I N T A I N I N G  T R A F F I C
(BROADWAY OVER DEPOT STREET AND MDOT RAILROAD & BROADWAY OVER HURON RIVER)
BROADWAY OVER DEPOT STREET AND MDOT RAILROAD

LEGEND

P#: LOCATION OF PIER TIES (REMOTE)

REF LINE A

REF LINE 1

INNER RAILING

E3 JOINT

PLAN - WEST

NOTES:

A RAILROAD PERMIT IS NOT REQUIRED UNDER THE
CONDITIONS WITH THE CONTRACTOR TO PERFORM
THE RAIL PATCHING SYSTEM IN THE PARKING LOTSIDE OF THE PIER BETWEEN THE
WORKERS, MATERIALS, VEHICLES AND EQUIPMENT ON
IN ORDER TO PERFORM THE BARRIER RAIL REPAIRS,
THE PARKING LOT SIDE OF THE PIER BETWEEN THE
THE CONTRACTOR SHALL REMOVE, STORE, PROTECT,
The Patching System in the Parking Lot Side of the Pier.
THE CONTRACTOR SHALL REMOVE, STORE, PROTECT,
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CONCRETE RAIL PATCHING LOCATIONS

BROADWAY OVER DEPOT STREET AND MDOT RAILROAD
PLAN OF DECK DEFICIENCIES

NOTES:

THE CONTRACTOR IS RESPONSIBLE TO DETECT ALL DEFICIENCIES
EXVIOUS TO THE PROJECT AND PROVIDE A REPORT TO THE ENGINEER
CALCULATION IS ACCORDANCE WITH SECTION 12.35P AND AS
APPROVED PRIOR TO THE COMPLETION OF THE WORK. THE CONTRACTOR
SHALL AFFIX TO EACH PATCH A LEGEND THAT SHOWS THE
DEFICIENCY LOCATION AND SIZE. THE CONTRACTOR SHALL
ENSURE THAT THE BURLAP AND POLYETHYLENE FILM COVERING THE
PATCHES PLACED ON THIS PROJECT ARE WET FOR A PERIOD OF
SEVEN CALENDAR DAYS IN ACCORDANCE WITH SECTION 712.03.
P AND AS

THE CONTRACTOR SHALL ENSURE THAT THE BURLAP
"PATCHING CONC, C-L".
SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK
AFFIXED TO EACH PATCH. THIS WORK SHALL NOT BE PAID FOR
REMAINS WET FOR THE ENTIRE DURATION OF THE CURING PERIOD. THE
DETAILED HEREIN. THE CONTRACTOR SHALL ENSURE THAT THE BURLAP
CALENDAR DAYS IN ACCORDANCE WITH SECTION 712.03.
THE CONTRACTOR IS RESPONSIBLE TO WET CURE ALL LATEX MODIFIED
PATCHES PLACED ON THIS PROJECT FOR A PERIOD OF SEVEN
DESCRIPTION OF THE WORK TO BE INCLUDED IN THE ITEM OF WORK
PATCHING CONC, C-L.

LEGEND:

- 2009 DECK DELAMINATION
- 2011 DECK DELAMINATION
- 2013 DECK DELAMINATION
- 2015 DECK DELAMINATION
- 2017 DECK DELAMINATION

- 2009 TOTAL DECK DELAMINATION = 82.06 SF
- 2011 TOTAL DECK DELAMINATION = 78.82 SF
- 2013 TOTAL DECK DELAMINATION = 216.8 SF
- 2015 TOTAL DECK DELAMINATION = 341.15 SF
- 2017 TOTAL DECK DELAMINATION = 402.85 SF

BROADWAY OVER DEPOT STREET AND MDOT RAILROAD

BROADWAY OVER DEPOT STREET AND MDOT RAILROAD
PLAN - SOUTH RAIL PATCHING LOCATIONS

ELEVATION - INNER RAIL

SECTION A-A

NOTE:
In order to perform the barrier rail repairs, the contractor shall remove the entire project area to the ends of the bridge. The City of Ann Arbor reserves the right to place the project to its satisfaction. Shielding of the area shall be performed in the associated area of work.
A corrected section of the document, including a plan of deck deficiencies and notes.

**Plan of Deck Deficiencies**

- Approximated from previous deck evaluation.
- Contractor shall verify size and location of deficiencies and patch as directed by the engineer.
- Contractor is responsible to wet cure all latex modified polymers placed on this project for a period of seven calendar days in accordance with Section 712.03.P and as established herein. The contractor shall ensure that the contractor provides a final inspection of the completed work.
- Polyethylene film covering the patches shall be securely affixed to each patch. This work shall not be paid for separately, but shall be included in the item of work.
- Before you dig, call below.

**Notes:**

- The contractor is responsible to wet cure all latex modified polymers placed on this project for a period of seven calendar days in accordance with Section 712.03.P and as established herein. The contractor shall ensure that the contractor provides a final inspection of the completed work.
- Polyethylene film covering the patches shall be securely affixed to each patch. This work shall not be paid for separately, but shall be included in the item of work.

**Legend:**

- 2013 Deck Delaminations and Spalls
- 2015 Deck Delaminations and Spalls
- 2017 Deck Delaminations and Spalls

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Deck Delamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>17.35 ft²</td>
</tr>
<tr>
<td>2015</td>
<td>51.87 ft²</td>
</tr>
<tr>
<td>2017</td>
<td>64.15 ft²</td>
</tr>
<tr>
<td>2019</td>
<td>26.25 ft²</td>
</tr>
<tr>
<td>2020</td>
<td>33.75 ft²</td>
</tr>
</tbody>
</table>
TYPICAL ELEVATION - INNER RAIL

BE COMPLETELY EFFECTIVE (TYP ALL MONUMENTS).

SURFACE COATING RAILING. ALL MEANS OF PROTECTION SHOULD PROTECT EXIST MONUMENTS FROM APPLICATION OF CONC.

OVERLAY
FUME MODIFIED EXIST CONC, SILICA
SURFACE COATING
LIMITS OF CONC

AFTER REMOVING CAP:
- REPLACE POSITION DOWELS TO ORIGINAL LOCATIONS
- PLACE COLOR-MATCHED, TWO-PART, POLYURETHANE CAULK, FINISH
- REPLACE CAP OVER POSITION DOWELS AND LEVEL
- PLACE NON-CORRODING SHIMS AND/OR NON-CORRODING DOWELS AND/OR "MASONRY GROUT BED USING NON-CORRODING SHIMS TO PROTECT CONCRETE READ THEY WILL NOT HOLD WATER"

MISCELLANEOUS DETAILS SHEET
SEE PATCHING DETAILS ON SHEETS 24 AND 25)
ANCHOR ADJUSTMENT DETAILS

PRIOR TO REINSTALLING METAL RAILING AND "BEARING PAD:
- TOP OF CONCRETE FREE OF SURFACE VOIDS
- TOOL ADHESIVE TO LEAVE SMOOTH SURFACE AT TOP OF CONCRETE
- INJECT HILTI HIT-RE 100 ADHESIVE, FILLING VOID
- DO NOT REINSTALL SLEEVES ABOVE TOP OF CONCRETE
- REINSTALL THREADED RODS TO 2" PROJECTION
- JIG TO SECURE RAILING TO NEW FOUNDATION
- REMOVE, SALVAGE AND PROTECT RAILING ANCHORS (TYP)

NOTES:
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE REQUIRED REPAIRS AND TO THE CONTRACT QUANTITY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE REQUIRED REPAIRS AND TO THE CONTRACT QUANTITY.
- THE ENGINEER SHALL DIRECT THE REMOVAL AND REPLACEMENT OF INDIVIDUAL RAILING SECTIONS FOR REPAIR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE REQUIRED REPAIRS AND TO THE CONTRACT QUANTITY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE REQUIRED REPAIRS AND TO THE CONTRACT QUANTITY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE REQUIRED REPAIRS AND TO THE CONTRACT QUANTITY.
STAGE 2
APPLIES: CLOSE EB and WB INSIDE Lanes

KEY
- 
  SIGN TYPE B, TEMP, PRismatic
- 
  BARRIAGE TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED
- 
  PEDESTRIAN TYPE II BARRIAGE, TEMP
- 
  PEDESTRIAN TYPE II CHANNELIZER, TEMP
- 
  WORK ZONE
- 
  PEDESTRIAN TYPE II CHANNELIZING DEVICE, 42 INCH, FLUORESCENT (25' SPACING)
- 
  CHANNELIZING DEVICE, 42 INCH, FLUORESCENT (50' SPACING)
- 
  BUFFER
- 
  PEDESTRIAN TYPE II CHANNELIZING DEVICE, 42 INCH, FLUORESCENT (100' SPACING)
- 
  CHANNELIZING DEVICE, 42 INCH, FLUORESCENT (132' SPACING)
- 
  PAVEMENT MOUNT REFLECTIVE TYPE 1, TAPE, 4 INCH, YELLOW, TEMP

STAGE 2
PLACE SIGNS AT 350' SPACING

EXISTING BUS STOP

WORK ZONE
SIGN CLOSEST TO
WORK ZONE
SIGN FURTHEST FROM
WORK ZONE

MAINTAINING TRAFFIC
(FULLER ROAD OVER HURON RIVER)
MAINTAINING TRAFFIC
(FULLER ROAD OVER HURON RIVER)

STAGE 2
APPLIES: CLOSE ED and NO INDY LINES

- CHANNELIZING DEVICES, 42 INCH FLUORESCENT (50' SPACING)
- CHANNELIZING DEVICES, 42 INCH FLUORESCENT (25' SPACING)
- PAVEMENT WET REFLECTIVE, TYPE B, TAPE, 4 INCH, YELLOW, TEMP (SOLID)
- LIGHTED ARROW, TYPE C

KEY

- SIGN TYPE II, TEMP, PRISMATIC
- BARRIERS, TYPE II, HIGH INTENSITY, DOUBLE SIDED, REFLECTIVE
- PED DETOUR
- CHANNELIZING DEVICES, 42 INCH

PLACE SIGNS AT 350' SPACING

PLACE SIGNS AT 350' SPACING

FULLER CT
STAGE 3
APPLIES: CLOSE NO OUTSIDE LANE AND SIDEWALK DETOUR PFEER TO BE HERE

KEY

1. SEER TYPE III TEMP PRISMTIC
2. BARRICADE TYPE III HIGH INTENSITY DOUBLE SIDED LIGHTED
3. REFLECTOR TYPE II BARRICADE TEMP
4. REFLECTOR TYPE II CHANNELIZER TEMP
5. WORK ZONE
6. PED DETOUR
7. CHANNELING DEVICE 42 INCH

MAINTAINING TRAFFIC
(FULLER ROAD OVER HURON RIVER)

U OF M PARKING
YELLOW LOT
SIDEWALK CLOSED
CROSS HERE
R9-11R
CLOSED
SIDEWALK
R9-9

SIDEWALK CLOSED
CROSS HERE
R9-11L
CLOSED
SIDEWALK
R9-9

M4-9bL
(mod)
M4-9bR
(mod)
M4-9bL
(mod)
M4-9bR

PEDESTRIAN DETOUR
STAGE 1
APPLIES CLOSE EB OUTSIDE LANE AND SIDEWALK
DETENTION PSS TO NORTH SIDE

KEY
- SIIGN TYPE B, TEMP, PRISMATIC
- BARREICADE TYPE III, HIGH INTENSITY, DOUBLE SIDED, LITTED
- PEDESTRIAN TYPE II BARRICADE, TEMP
- PEDESTRIAN TYPE II CHANNELIZER, TEMP
- WORK ZONE
- PED DETOUR
- CHANNELING DEVICE, 42 INCH

MAINTAINING TRAFFIC
(FULLER ROAD OVER HURON RIVER)
FOR INFORMATION ONLY
DO NOT WORK FROM THIS SHEET
THE INFORMATION SHOWN HERE IS FOR REFERENCE ONLY
NO PAY ITEMS ARE SHOWN.
REFERENCE ONLY.
THE INFORMATION SHOWN HERE IS FOR
DO NOT WORK FROM THIS SHEET.

EXISTING GENERAL PLAN OF STRUCTURE

CITY OF ANN ARBOR  2020 BRIDGE CAPITAL PREVENTIVE MAINTENANCE REPAIRS

www.a2gov.org
734-794-6410
ANN ARBOR, MI 48107-8647
P.O. BOX 8647
301 EAST HURON STREET
PUBLIC SERVICE
CITY OF ANN ARBOR

BEFORE YOU DIG.
CALL BELOW.
KNOW WHAT'S BELOW.

FILE NAME:
Z:\2019\190391\CAD\CD\FULLER_EXIST_005.DGN

FULLER ROAD OVER HURON RIVER
(WESTBOUND)
WESTBOUND INNER RAIL - NORTH

EASTBOUND INNER RAIL - SOUTH

ELEVATION - INNER RAIL

PARTIAL DECK SECTION

NOTE: TO PERFORM THE BARRIER RAIL REPAIRS, THE CONTRACTOR SHALL REMOVE, STORE, PROTECT, AND REPLACE ANY OBSTRUCTED ITEM OF WORK. THE CONTRACTOR SHALL REMOVE, STORE, PROTECT, AND REPLACE ANY OBSTRUCTED ITEM OF WORK. THE CONTRACTOR SHALL REMOVE, STORE, PROTECT, AND REPLACE ANY OBSTRUCTED ITEM OF WORK. THE CONTRACTOR SHALL REMOVE, STORE, PROTECT, AND REPLACE ANY OBSTRUCTED ITEM OF WORK. THE CONTRACTOR SHALL REMOVE, STORE, PROTECT, AND REPLACE ANY OBSTRUCTED ITEM OF WORK.
CONCRETE RAIL PATCHING LOCATIONS

FULLER ROAD OVER HURON RIVER

Before you dig.
Call below.
Know what’s Z:
2019\190391\CAD\CD\FULLER_RAIL_002.DGN

FILE NAME:
P1
P2
P3
P4
P5
P6
PLAN OF DECK DEFICIENCIES

NOTES:

- The contractor is responsible to determine and locate all defects. The defects shown on the plans shall not be deleted or modified during construction. All work shall be performed in accordance with the specifications and drawings on file and as may be directed by the Engineer. The contractor shall provide a work order to the Engineer for any additional work required.

- All defects shall be documented by the contractor and submitted to the Engineer for review and approval.

- All defects shall be repaired in accordance with the specifications and drawings on file and as may be directed by the Engineer.

- All repairs shall be completed within the time frame specified by the Engineer.

- The contractor shall provide a work order to the Engineer for any additional work required.

- All repairs shall be completed within the time frame specified by the Engineer.
GUARDRAIL REPAIR LOCATIONS PLAN

RUB RAIL REPLACEMENT DETAIL

OFFSET BLOCK REPLACEMENT DETAIL

The work shown on this sheet is NOT included in the contract. Disregard all work shown to be performed on this plan sheet.
**MISCELLANEOUS DETAILS**

**TYPICAL RAILING PATCH DETAILS**

- Before you dig.
- Call below.
- Know what's below.

- FULLER ROAD RAILING
  - TYPICAL RAILING PATCH DETAILS
    - OVERHEAD RAILING
      - EXIST REINF
    - TOP/SIDEWALK
      - 2" SAW CUT (TYP)
      - EXIST REINF
      - FULLER ROAD RAILING

- BROADWAY RAILING
  - INNER RAILING
    - TOP/SIDEWALK
      - 2" SAW CUT (TYP)
      - EXIST REINF

- **E3 JOINT REPLACEMENT DETAIL**
  - E3 JOINT REPLACEMENT DETAIL
    - POLYURETHANE HYBRID
      - JOINT SEALANT
      - POLYURETHANE OR POLYETHYLENE FOAM ROD
      - MIN 4"
      - MIN 8"
    - HAND CHIPPING, SHALLOW OR DEEP
      - WEAKENED BARS (TYP)
      - RE-BARS AND REPLACE
    - BLAST CLEAN EXPOSED WEAKENED BARS (TYP)

- **TYPICAL DECK PATCH**
  - TYPICAL DECK PATCH
    - OVERHEAD DECK
      - EXIST REINF
    - 2" SAW CUT (TYP)
    - EXIST REINF
  - **NOT SHOWN FOR CLARITY**
    - PLACEMENT PATCH MATERIAL.
    - ENGINEER MUST VERIFY PREPARATION OF CAVITY AT EACH LOCATION PRIOR TO PLACEMENT PATCH MATERIAL.

- **HAND CHIPPING, OTHER THAN DECK**
  - HAND CHIPPING, OTHER THAN DECK
    - PATCHING CONC, C-L PLACING PATCH MATERIAL.
    - ENGINEER MUST VERIFY PREPARATION OF CAVITY AT EACH LOCATION PRIOR TO "HAND CHIPPING, OTHER THAN DECK".
    - SALVAGE, BLAST CLEAN, AND REUSE ALL EXPOSED REINFORCEMENT. INCLUDED IN THE BID ITEM "HAND CHIPPING, OTHER THAN DECK".

- **E3 JOINT REPLACEMENT DETAIL**
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    - POLYURETHANE HYBRID
      - JOINT SEALANT
      - POLYURETHANE OR POLYETHYLENE FOAM ROD
      - MIN 4"
      - MIN 8"
    - HAND CHIPPING, SHALLOW OR DEEP
      - WEAKENED BARS (TYP)
      - RE-BARS AND REPLACE
    - BLAST CLEAN EXPOSED WEAKENED BARS (TYP)

- **BROADWAY RAILING**
  - BROADWAY RAILING
    - FULLER ROAD RAILING
    - TYPICAL DECK PATCH
      - OVERHEAD DECK
        - EXIST REINF
      - 2" SAW CUT (TYP)
      - EXIST REINF
      - HAND CHIPPING, SHALLOW OR DEEP
      - WEAKENED BARS (TYP)
      - RE-BARS AND REPLACE
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RIPRAP DETAILS

FULLER ROAD WEST ABUTMENT

USE OF RIPRAP SHALL BE AN OPTION COMMENSURATE WITH STREAM ELEVATION.

THE RIPRAP SCHEME SHOWN IS A MINIMUM REQUIREMENT FOR SCOUR PROTECTION. CONCRETE CEMENT SHALL NOT BE USED FOR RIPRAP ONLY NATURAL, ROUNDED STONES SHALL BE USED.

THE RIPRAP SCHEME SHOWN IS A MINIMUM REQUIREMENT FOR SCOUR PROTECTION. BROKEN CONCRETE TOE OF RIPRAP SHALL BE AT OR BELOW EXISTING STREAMBED/ELEVATION.

www.a2.gov.org
734-794-6410
ANN ARBOR, MI 48107-8647
P.O. BOX 8647
301 EAST HURON STREET

RIPRAP DETAILS

FULLER ROAD OVER HURON RIVER

EROSION CONTROL, TURBIDITY CURTAIN, DEEP