CITY OF ANN ARBOR

BARTON, ARGO, & SUPERIOR GATE REPAIRS

BID SET
MARCH, 2021
PROJECT NUMBER: 2075151506
GENERAL NOTES
A. PROVIDE TEMPORARY BARRIERS AS NEEDED FOR PROTECTION OF THE PUBLIC.

B. PROVIDE TEMPORARY ADHESIVE BARRIER (E.G. CONSTRUCTION SHEET, PLASTIC, ETC.) TO LEAD FROM THE MOUTH OF THE RIVER TO THE SITE TO PROTECT THE AREA FROM DEBRIS, CONTRUCTION MATERIALS, ETC. BARRIERS WILL BE LOCATED A DISTANCE FROM THE MOUTH OF THE RIVER TO PROTECT THE AREA FROM DEBRIS.

C. NO SATELLITE DISHES, SATELLITE DISHES, CONSTRUCTION MATERIALS, ETC. BE INTRODUCED TO THE SITE OR THE PUBLIC.

D. ENSURE ALL ITEMS FALLING INTO THE RIVER ARE PROMPTLY REMOVED.

E. CIGARETTE BUTTS SHALL NOT BE DISCARDED INTO THE RIVER.

F. ENSURE ALL OSHA/MIOSHA REQUIREMENTS ARE ADHERED TO. SAFETY DEVICES SHALL BE WORN AT ALL TIMES WHERE NEEDED FOR FALL PROTECTION.

G. PROVIDE TEMPORARY BARRIERS AS NEEDED FOR PROTECTION OF THE PUBLIC.

H. PROTECT EXISTING TREES AS INDICATED IN THE DRAWINGS.

I. APPROXIMATE TYPICAL WATER SURFACE ELEVATIONS AND TYPICAL RIVER FLOWS ARE SHOWN FOR INFORMATIONAL PURPOSES. SIGNIFICANTLY HIGHER WATER LEVELS ARE POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF WORK AND SAFETY AT ALL POSSIBLE FLOW RANGES.

J. CONTRACTOR MAY INSTALL CONSTRUCTION FENCES AS NEEDED IN THE AREAS SHOWN ON THE DRAWINGS.

ANCHOR BOLT REPLACEMENT

1. REMOVE AND REPLACE GROUT BASE - USE SPEC CHEM SC MULTI-PURPOSE GROUT.

2. CORE OUT EXISTING ANCHOR BOLTS PER ADHESIVE MANUFACTURER RECOMMENDATIONS.

3. INSTALL NEW "THREADED ROD (F1554 gr. 105, GALVANIZED), 9" MIN. EMBED INTO WALL (BELOW BOTTOM OF GROUT).

4. GROUT ANCHOR USING HILTI HIT-RE-500 V3 ADHESIVE, OR APPROVED EQUAL. INSTALL ANCHOR SYSTEM PER MANUFACTURER RECOMMENDATIONS.

TREE PROTECTION FENCE DETAIL

SILT FENCE
INSTALL PROJECT SIGN TO NOTIFY PEDESTRIANS OF BRIDGE CLOSURES. AS APPROPRIATE, INDICATE CLOSURE OF BARTON OR ARGO BRIDGE.

PARK ACCESS DRIVE OFF WHITMORE LAKE ROAD.

ARGO CANOE LIVERY

ARGO, BARTON & SUPERIOR DAM REPAIR

PROPOSED CONSTRUCTION SCHEDULE

NORTH END STRUCTURE FOLLOWING NTP
NORTH END CLOSING OVER BARTON DAM OR ARGO DAM MAY BE CLOSED DUE TO CONSTRUCTION

DETOUR AVAILABLE FOR ARGO DAM

ARGO: CROSSING CURRENTLY CLOSED
BARTON: CROSSING CURRENTLY CLOSED

PROJECT SIGN DETAIL
1. GENERAL NOTES

A. All structural components shall be designed in accordance with project standards and specifications.
B. Contractor shall verify all structural components designed, fabricated, and installed, as confirmed by the engineer.
C. Contractor shall ensure that all components are fabricated and installed in accordance with the drawings.

2. STEEL COMPONENTS

A.steel work includes all components of gates, gates, channels, unstressed steel, rails, trusses, reinforced steel, and reinforcing steel bars.

3. FABRICATION

A. All steel components shall be fabricated in accordance with the drawings.
B. All steel components shall be marked with the manufacturer's name, serial number, and date of manufacture.
C. All fasteners shall be installed in accordance with the manufacturer's instructions.

4. PAINTING

A. All steel components shall be painted in accordance with the specifications.
B. All steel components shall be primed before painting.
C. All steel components shall be painted with a minimum of two coats of paint.
HARALIC MEAN: 230 CFS
FRQ.

HURON RIVER TYPICAL FLOWS (CFS)

ANNOLO LOW FLOW ESTIMATE - 1998

<table>
<thead>
<tr>
<th>PERIOD</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUNE</th>
<th>JUL</th>
<th>AUG</th>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>0%</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>50%</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>95%</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
<td>75</td>
</tr>
</tbody>
</table>

HARMONIC MEAN: 230 CFS

8 GATES WILL PASS APPROXIMATELY 2,500 CFS WITH POND AT NORMAL ELEVATION.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing—any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

SERIES 1 - Barton Dam
GATE PLAN AND SECTIONS

CITY OF ANN ARBOR
BARTON, ARGO & SUPERIOR GATES
ANN ARBOR, MI 2075151506

TYPICAL GATE ARM CROSS SECTION

TYPICAL SKIN PLATE CROSS SECTION

TYPICAL GATE PLAN VIEW

TYPICAL SKIN PLATE CROSS SECTION: TRUSS BAR SHOWN BEYOND

REPLACE BOTTOM SEAL, CLAMP BAR, FASTENERS AND BEVEL WASHERS
REPLACE SIDE SEAL ANGLE (1 EACH SIDE) SEAL BAR, CLAMP BAR AND FASTENERS
OPTIONAL ITEM: REPLACE TRUSS BAR AND FASTENERS
REPLACE BOTTOM SEAL LOCATION, INCLUDING STEEL PLATE AND ALL CONNECTIONS
REPLACE FRAME PLATE AND ALL CONNECTIONS
REPLACE CORRODED SKIN PLATE, BOLTED BOTTOM BEAM, LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER

EMBEDDED WELD PAD

REPLACE BOTTOM BEAM, 5 LOCATIONS, INCLUDING STIFFENER PLATES AND ALL CONNECTIONS
LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER

REPLACE BOTTOM SEAL, CLAMP BAR, FASTENERS
REPLACE SIDE SEAL ANGLE (1 EACH SIDE) SEAL BAR, CLAMP BAR AND FASTENERS

OPTIONAL ITEM: REPLACE TRUSS BAR AND FASTENERS
REPLACE BOTTOM SEAL LOCATION, INCLUDING STEEL PLATE AND ALL CONNECTIONS
REPLACE FRAME PLATE AND ALL CONNECTIONS
REPLACE CORRODED SKIN PLATE, BOLTED BOTTOM BEAM, LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER

EMBEDDED WELD PAD

REPLACE BOTTOM BEAM, 5 LOCATIONS, INCLUDING STIFFENER PLATES AND ALL CONNECTIONS
LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER

REPLACE BOTTOM SEAL, CLAMP BAR, FASTENERS
REPLACE SIDE SEAL ANGLE (1 EACH SIDE) SEAL BAR, CLAMP BAR AND FASTENERS

OPTIONAL ITEM: REPLACE TRUSS BAR AND FASTENERS
REPLACE BOTTOM SEAL LOCATION, INCLUDING STEEL PLATE AND ALL CONNECTIONS
REPLACE FRAME PLATE AND ALL CONNECTIONS
REPLACE CORRODED SKIN PLATE, BOLTED BOTTOM BEAM, LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER

EMBEDDED WELD PAD

REPLACE BOTTOM BEAM, 5 LOCATIONS, INCLUDING STIFFENER PLATES AND ALL CONNECTIONS
LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER
New Work Area.

Huron River

Normal Headwater Level = 773.5'±

Argo Pond

Cascade

Control House

Observation Deck,

Grating

Railroad Bridge

Discharge Apron W/

Baffle Blocks

Spillway

Pedestrian Bridge,

Concrete

Concrete Bridge Abutment

Normal Tailwater Level = 762.5±

Gate Hoist #5-6

Gate Hoist #3-4

Gate Hoist #1-2

100 Year Tail Water

Surface EL. = 768.3

100 Year Head Water

Surface EL. = 774.3

100 Year Head Water

Surface EL. = 774.3

100 Year Tail Water

Surface EL. = 768.3

Site Access

To Canoe

Livery

City of Ann Arbor

Bartow, Argo & Superior

Gates

Ann Arbor, MI

2075151506
ARGO POND

NORMAL HEADWATER LEVEL = 773.5a

NORMAL TAILWATER LEVEL = 762.5a

GENERAL NOTES:
1. CONTRACTOR MAY ONLY TAKE ONE BAY OUT OF SERVICE AT A TIME.
2. BRIDGE SHALL NOT BE USED AS A LIFT PLATFORM.
3. BAY NUMBER, LOCATION TO BE FIELD DETERMINED, USE APPROVED 3" STENCIL.
4. PAINT BAY NUMBER WITH BLACK POLYURETHANE.
5. DIGITS SHALL FACE UPSTREAM.
6. SEE MECHANICAL DRAWINGS FOR BAY WIDTHS.
7. CONTRACTOR RESPONSIBLE FOR VERIFYING GATE WIDTHS IN FIELD.
8. SANDBLAST AND REPAINT GATE, TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT EACH BAY.
9. OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

ARGO DAM SECTIONAL ELEVATION
NOT TO SCALE

NOTE: IN HIGH FLOW SITUATIONS, THE TAIL WATER CAN SUBMERGE THE GATE SILL.
EXISTING PLATFORM
STOPLOGS PROVIDED BY CITY OF ANN ARBOR.
STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.
RUB PLATE WITH HEATER BOX
INTERMEDIATE PIER
EXISTING PLATFORM

TYPICAL ELEV. 762.5a
NOTE: IN HIGH FLOW SITUATIONS, THE TAIL WATER CAN SUBMERGE THE GATE SILL.

ARGO DAM SECTIONAL ELEVATION
NOT TO SCALE
ARGO DAM DETAILED PEDESTRIAN DETOUR PLAN

CITY OF ANN ARBOR
BARTON, ARGO & SUPERIOR GATES
ANN ARBOR, MI

1. CONTRACTOR SHALL PROVIDE AND PLACE UP TO 6 ADDITIONAL DETOUR SIGNS AS REQUIRED BY ENGINEER.

KEY NOTE LEGEND
1. BRIDGE CLOSED
2. DETOUR
3. DETOUR
4. DETOUR
5. EXISTING STAIRS TO BROADWAY STREET OVERPASS
6. RAIL ROAD DEPOT

ARGO BRIDGE CROSSING SHOWN CLOSED. FOLLOW DETOUR ALONG BROADWAY STREET.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Date: 2021.03.10

Tel: www.stantec.com

Stantec Consulting Michigan Inc.
3754 Ranchero Drive
Ann Arbor MI 48108-2771
(734) 761-1010

Know what's below. before you dig.

Call

REPLACE BOTTOM SEAL, CLAMP BAR, FASTENERS, AND BEVEL WASHERS.
REPLACE SIDE SEAL, CLAMP BAR, FASTENERS, AND BEVEL WASHERS.
OPTIONAL ITEM: REPLACE TRUNNION PINS AND BUSHINGS.
REPLACE BEAMS H1 AND H3: 4 TOTAL. INCLUDES DIAPHRAGM PLATES AND ALL CONNECTIONS. LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER.
REPLACE BEAMS H2 AND H4: 4 TOTAL. INCLUDES DIAPHRAGM PLATES AND ALL CONNECTIONS. LOCATIONS TO BE FIELD DETERMINED FOLLOWING INSPECTION BY ENGINEER.
REPLACE GUIDE ROLLER: 24 TOTAL
REPLACE EMBEDDED GATE SILL: 6 TOTAL

DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.

BOLTS & LOCKWASHERS

DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.

C TRUNNION
C TRUNNION
C TRUNNION
C TRUNNION
C TRUNNION
C TRUNNION
C TRUNNION

L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3

BEARING PL.
BEARING PL.
BEARING PL.
BEARING PL.
BEARING PL.
BEARING PL.
BEARING PL.

PL/
PL/
PL/
PL/
PL/
PL/
PL/

5" 8" 6" 4"
5" 8" 6" 4"
5" 8" 6" 4"
5" 8" 6" 4"
5" 8" 6" 4"
5" 8" 6" 4"
5" 8" 6" 4"

W.P.
W.P.
W.P.
W.P.
W.P.
W.P.
W.P.

STRUT ARM
STRUT ARM
STRUT ARM
STRUT ARM
STRUT ARM
STRUT ARM
STRUT ARM

L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3

FACE OF PIER
FACE OF PIER
FACE OF PIER
FACE OF PIER
FACE OF PIER
FACE OF PIER
FACE OF PIER

BAR 3" x
BAR 3" x
BAR 3" x
BAR 3" x
BAR 3" x
BAR 3" x
BAR 3" x

L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3
L 5 x 3

B-B
B-B
B-B
B-B
B-B
B-B
B-B

CHAIN
CHAIN
CHAIN
CHAIN
CHAIN
CHAIN
CHAIN

TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION
TYPICAL GATE ARM CROSS SECTION

B-B
B-B
B-B
B-B
B-B
B-B
B-B

DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.

DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.
DIAPHRAGM PL.

SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C
SYMMETRICAL ABOUT C

HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7
HORIZONTAL BEAM C 12 x 20.7

A-A
A-A
A-A
A-A
A-A
A-A
A-A

3° 2' 43"
3° 2' 43"
3° 2' 43"
3° 2' 43"
3° 2' 43"
3° 2' 43"
3° 2' 43"

1' - 9"
1' - 9"
1' - 9"
1' - 9"
1' - 9"
1' - 9"
1' - 9"

EL. 774.0
EL. 774.0
EL. 774.0
EL. 774.0
EL. 774.0
EL. 774.0
EL. 774.0

10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS
10'-0" PROJECTED RADIUS

TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION
TYPICAL SKIN PLATE CROSS SECTION

C-C
C-C
C-C
C-C
C-C
C-C
C-C

4" 1" 2" 3"
4" 1" 2" 3"
4" 1" 2" 3"
4" 1" 2" 3"
4" 1" 2" 3"
4" 1" 2" 3"
4" 1" 2" 3"

TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW

A-A
A-A
A-A
A-A
A-A
A-A
A-A

38° 38' 15"
38° 38' 15"
38° 38' 15"
38° 38' 15"
38° 38' 15"
38° 38' 15"
38° 38' 15"

19° 42' 20"
19° 42' 20"
19° 42' 20"
19° 42' 20"
19° 42' 20"
19° 42' 20"
19° 42' 20"

25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING

25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING
25' - 0" OPENING

A-A
A-A
A-A
A-A
A-A
A-A
A-A

1.5" x 1.5"
1.5" x 1.5"
1.5" x 1.5"
1.5" x 1.5"
1.5" x 1.5"
1.5" x 1.5"
1.5" x 1.5"

H/S-521
H/S-521
H/S-521
H/S-521
H/S-521
H/S-521
H/S-521

TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW
TYPICAL GATE PLAN VIEW

CITY OF ANN ARBOR
BARTON, ARGO & SUPERIOR GATES
ANN ARBOR, MI

2075151506

SERIES 2 - ARGO DAM GATE PLAN AND SECTIONS

151506-S-221

2021.03.11 11:22:50 AM

u:\2075151506\civil\design\drawing\151506-s-221
Know what's below before you dig. Call R.

**SERIES 3 - SUPERIOR DAM**

**EXISTING CONDITIONS AND SITE PREPARATION**

- **NEW WORK AREA**
- **SUPERIOR POND**
- **HEADWATER ELEV: 730.5 ±**
- **HURON RIVER**

<table>
<thead>
<tr>
<th>Month</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>210</td>
<td>380</td>
<td>310</td>
<td>240</td>
<td>240</td>
<td>340</td>
<td>400</td>
<td>470</td>
<td>580</td>
<td>610</td>
<td>520</td>
<td>540</td>
</tr>
<tr>
<td>95%</td>
<td>170</td>
<td>310</td>
<td>250</td>
<td>200</td>
<td>190</td>
<td>290</td>
<td>340</td>
<td>440</td>
<td>490</td>
<td>530</td>
<td>410</td>
<td>320</td>
</tr>
</tbody>
</table>

Harmonic Mean: 430 CFS

Turbine Flow Capacity: 430 CFS ±

Overflow Capacity (1' of water over concrete crest at 730.5): 430 CFS ±

**HARMONIC MEAN: 430 CFS**

**TURBINE FLOW CAPACITY: 430 CFS ±**

**OVERFLOW CAPACITY (1' OF WATER OVER CONCRETE CREST AT 730.5): 430 CFS ±**

- **POWERHOUSE INTAKE**
- **NEW WORK AREA**
- **POWERHOUSE INTAKE**
- **EXISTING CONDITIONS**

**LOCATION MAP**

**Tw: 714.0 ±**

**140' OVERFLOW SPILLWAY WITH HIGH FLASHBOARDS ON VERTICAL PINS**

**ELECTRICAL SUB-STATION**

**CONTRACTOR EQUIPMENT AND MATERIAL LAYDOWN**

Install Pedestrian BARRICADES to prevent access while working on the access bridge.

Maintain access to powerhouse and control shed.

The City of Ann Arbor will operate the turbine. The contractor will be responsible for removing dam flashboards as needed to maintain pond level.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.

STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. STOPLOGS SHALL BE RIGGED FOR REMOVAL WITHOUT THE HELP OF A DIVER.

NEW WORK AREA
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE SUPERIOR DAM. IF THE HEADWATER INCREASES, THE CONTRACTOR SHALL REMOVE FLASHBOARDS TO MAINTAIN TYPICAL HEADWATER ELEVATIONS.

SANDBLAST AND REPAINT TORQUE TUBE, HOIST BASE, CHAIN COVER AND TORQUE TUBE SUPPORT AT EACH BAY. THE HOIST COVER IS GALVANIZED. A BRUSH OFF BLAST SHALL BE USED IN LIEU OF SANDBLASTING TO REMOVE EXISTING PAINT.

OPTIONAL ITEM: REPLACE ANCHOR BOLTS AS DIRECTED BY THE ENGINEER.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing—any errors or omissions shall be reported to Stantec without delay.

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.