CITY OF ANN ARBOR

SUPERIOR DAM GATE COATING AND REPAIRS
ITB #4695

BID SET
NOVEMBER, 2021
PROJECT NUMBER: 2075151510
1. GENERAL NOTES

A. ALL STRUCTURAL DRAWINGS MUST BE DESIGNED WITH ADEQUATE PROJECT ORGANIZATION AND SPECIFICATION.
B. CONTRACTOR SHALL PRODUCE SHOP DRAWINGS AND蘭されupuncture (tuning) GATE DETAILS ARE CONSULTED WITH THE OWNER.
C. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES TO THE OWNER;

1. PREPARE THE FOLLOWING SHOP-DRAWINGS.
   1. CONSTRUCTION MACHINERY AND EQUIPMENT.
      1. CONSTRUCTION MATERIALS.
      2. CONSTRUCTION OPERATIONS.
      3. CONSTRUCTION INSTRUMENTS.

2. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY.
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4. SHOP DRAWINGS: REPRODUCTION OF DESIGN DRAWINGS SHALL NOT BE PERMITTED FOR SHOP DRAWING SUBMISSIONS. THE GENERAL CONTRACTOR SHALL PROVIDE COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY.

5. SHOP DRAWINGS: DESIGN DRAWINGS ARE INTENDED TO REQUIRE AND TO INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT PROPER FOR THE WORK.

6. SHOP DRAWINGS: THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING.

7. SHOP DRAWINGS: PROVIDED FOR REPAIRS SHALL BE FIELD DETERMINED BY CONSULTATION BETWEEN THE OWNER, CONTRACTOR AND ENGINEER.

8. SHOP DRAWINGS: CONFORMING TO PROJECT PLANS/SPECIFICATIONS.

9. SHOP DRAWINGS: DANGEROUS MATERIALS SHALL BE REPLACED IN KIND AND AT NO ADDITIONAL COST TO THE OWNER.

10. SHOP DRAWINGS: ENDANGER THE WORKERS OR THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.

11. SHOP DRAWINGS: REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION OR SHOP DRAWINGS.

12. SHOP DRAWINGS: THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY TEMPORARY SHORING, BRACING, ETC., AS NEEDED FOR THE WORK SO AS NOT TO ENDANGER THE WORKERS OR THE STRUCTURAL INTEGRITY OF ANY EXISTING FEATURE.

13. SHOP DRAWINGS: PROVIDE S.S. ANCHORS AND OTHER DEVICES TO BE BUILT INTO CONCRETE WORK, UNLESS NOTED OTHERWISE.

14. SHOP DRAWINGS: USE AT ALL MOMENT CONNECTIONS.

15. SHOP DRAWINGS: WELDED UNLESS SHOWN OTHERWISE.

16. SHOP DRAWINGS: STEEL WORK INCLUDES ALL COMPONENTS OF GATES (BEAMS, COLUMNS, CHANNELS, ANGLES, JOISTS, LINTELS, BEARING PLATES, ETC.), AS INDICATED ON THE DRAWINGS.

17. SHOP DRAWINGS: ACCORDING TO THE FOLLOWING CODES AND STANDARDS:

   1. COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
      a. COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
      b. COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
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      y. COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
      z. COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:

18. SHOP DRAWINGS: THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF SECTION 01370 (LEAD BASED PAINT REMOVAL) IN TESTING CONFIRMS THE PRESENCE OF LEAD PAINT ON THESE PROJECT SITES. SEE APPENDIX OF THE SPECIFICATIONS FOR TESTING CONFIRMS THE PRESENCE OF LEAD PAINT ON THESE PROJECT SITES.

19. SHOP DRAWINGS: INDEPENDENT PAINT INSPECTION IS REQUIRED FOR THE SECOND BLASTING BUT NOT THE FIRST.

20. SHOP DRAWINGS: CHAINS.

21. SHOP DRAWINGS: PERMIT/SEAL.

22. SHOP DRAWINGS: CONSULTANT.

23. SHOP DRAWINGS: NOTES.

24. SHOP DRAWINGS: COPYRIGHT RESERVED.
**EXISTING CONDITIONS AND SEE PREPARATION**

**SUPERIOR POND**

HEADWATER ELEV: 726.5 ±

**HURON RIVER**

**POWERHOUSE INTAKE**

**NEW WORK AREA**

**140' OVERFLOW SPILLWAY WITH 1' HIGH FLASHBOARDS ON VERTICAL PIN**

**OVERFLOW CAPACITY (1' OF WATER OVER CONCRETE CREST AT 726.5): 400 CFS ±**

**TYPICAL FLOWS ARE INDICATED FOR THE CONTRACTOR'S INFORMATION. HIGHER RIVER FLOWS ARE POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE WORK THROUGH THE FULL RANGE OF POSSIBLE FLOWS.**

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**TURBINE FLOW CAPACITY: 650 CFS ±**

**OVERFLOW CAPACITY (1' OF WATER OVER CONCRETE CREST AT 726.5): 400 CFS ±**

**HARMONIC MEAN: 400 CFS**

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STOPLOGS PROVIDED BY THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL PICK UP STOPLOGS FROM THE CITY'S STORAGE YARD, MAKE REPAIRS AS REQUIRED FOR LEAK-FREE OPERATION AND INSTALL FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL EMPLOY A DIVER TO ASSIST WITH INSTALLATION. STOPLOGS SHALL BE RIGGED SO THEY CAN BE REMOVED WITHOUT THE HELP OF A DIVER. UPON FINAL COMPLETION, THE CONTRACTOR SHALL REMOVE THE STOPLOGS AND RETURN THEM TO THE CITY'S STORAGE YARD.

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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.

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REPLACE Bottom SEAL, CLAMP BAR, FASTENERS, AND BEVEL WASHERS.
REPLACE Side SEAL, CLAMP BAR, FASTENERS, AND BEVEL WASHERS.
(BOTH SIDES). SEE DETAIL 1/S-531 AND 4/S-531.

REPLACE GUIDE ROLLER (2 PER SIDE). SEE DETAIL 1/S-531 AND 2/S-531.

REPLACE EMBEDDED SILL. SEE DETAILS 6/S-531 AND 7/S-531.

1'-9" OD HUB
5"Ø PIPE 16x5.5

1'-1" OD HUB
5"Ø PIPE 16x5.5

HORIZONTAL GIRDER 16x5.5 (TOP)
HORIZONTAL GIRDER 16x5.5 (BOTTOM)

STIFFENER PL's.
STIFFENER PL (BOTTOM GIRDER ONLY)

SYMM. ABOUT C
DRAIN HOLES (EACH GIRDER)
SYMM. ABOUT C

10" SKIN PL.
8" SKIN PL.
3/8" SKIN PL.

FLOW

R17' - 0" TO UPSTREAM FACE OF SKIN PL.
WAVE DEFLECTOR

C TRUNNION
C LIFTING LUG

1' - 0"
22' - 8"

STIFFENER PL. (BOTTOM GIRDER ONLY)

CITY OF ANN ARBOR
SUPERIOR DAM GATE
COATING AND REPAIRS
ANN ARBOR, MI
2075151510

GATE PLAN VIEW
GATE SECTION

GATE PLAN AND SECTIONS

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