



# Memorandum

August 26, 2016

To: Keith Noble, MDEQ Ref. No.: 058502-T02

From: John-eric Pardys./kf/21

*J.E.P.*

cc: Grant Trigger, Dave Favero, Michael Tomka

**Subject:** Lowering Secondary Pond Levels

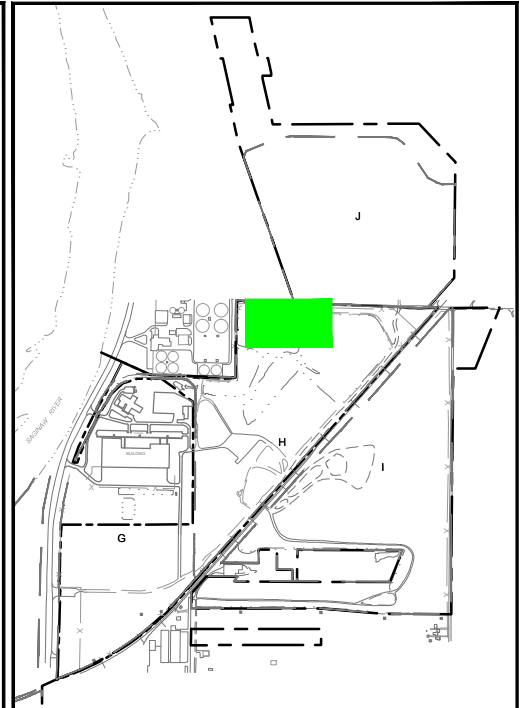
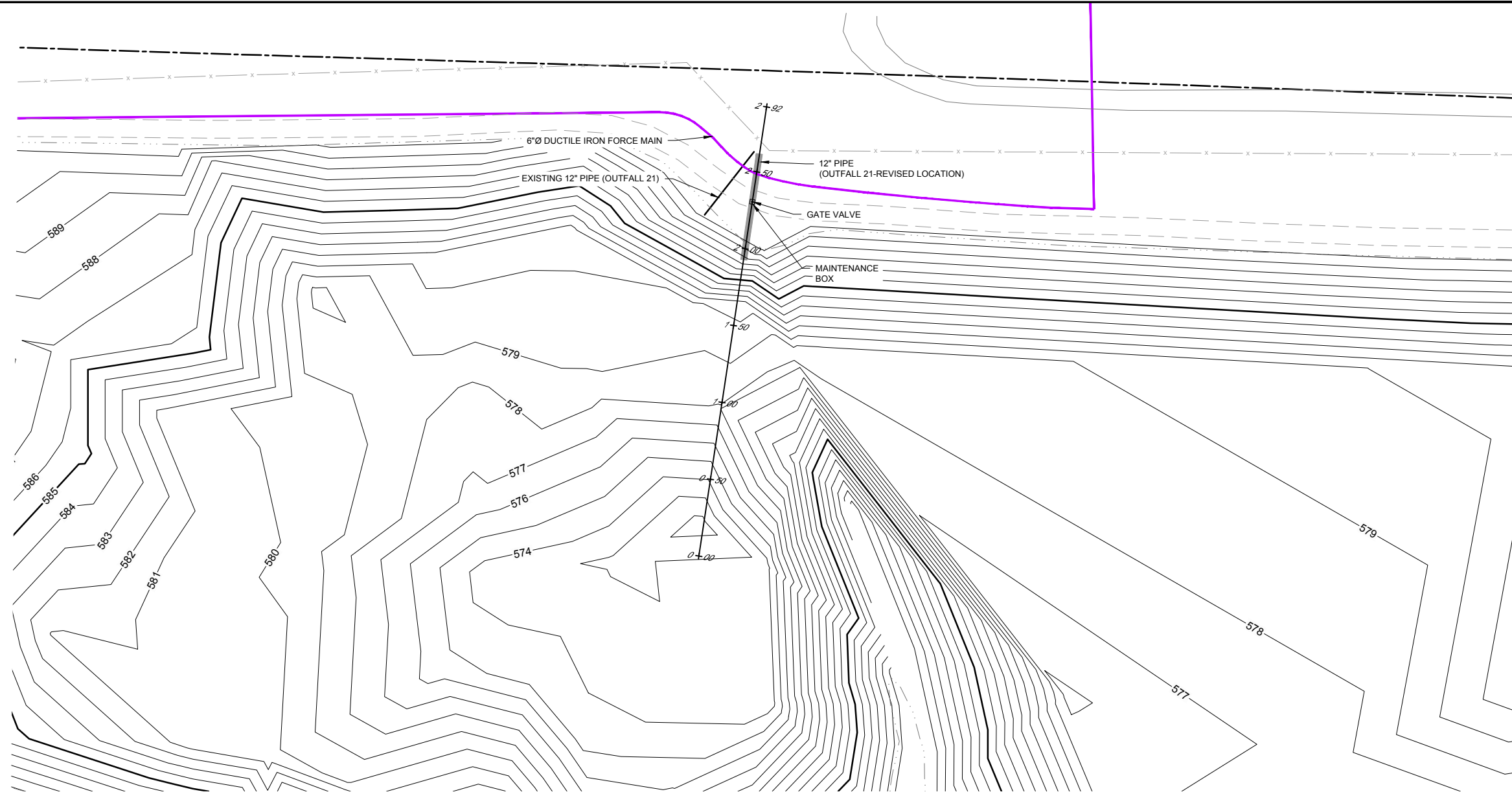
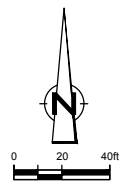
The following memorandum has been prepared by GHD on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust to summarize the work necessary to implement required remedial activities and to investigate proposed wetland mitigation and floodplain compensation opportunities at RACER's Nodular Industrial Land, Saginaw MI. Based on recent sediment sampling data of the Secondary Pond, RACER is evaluating alternatives to address metals and PCB contamination in sediment. To complete the evaluation, it is necessary to lower the water level in the Secondary Pond to expose as much sediment as possible.

To date, RACER has been able lower the water level in the Secondary Pond by discharging passively through an outfall pipe. The water level in the Secondary Pond has been lowered to the discharge pipe, therefore, in order to lower the water level in the Secondary Pond further, RACER plans to start pumping water.

In order to minimize the disturbance of sediment, RACER plans to utilize a pump, which will hang from the center of a welded tripod mount with a square base that will rest on the floor of a pontoon boat. A hole will be cut in the center of the pontoon boat to allow the pump to be lowered in to the water. The pontoon boat will be positioned and anchored in the deepest part of the pond (approximately 574 feet above mean sea level (ft AMSL)). A flexible 6-inch diameter discharge hose, covered with a turbidity curtain to keep it afloat, will run from the top of the pump to the existing outfall pipe. With this set-up, the intake for the pump will be maintained at the surface of the water, thereby, minimizing disturbance to sediments.

Figure 1 presents a plan and profile of the proposed set-up. Monitoring will continue to be completed daily in accordance with the NPDES permit. In accordance with the NPDES permit, allowable daily levels for turbidity and total suspended solids (TSS) are 160 NTU and 70 milligrams per liter (mg/L), respectively. RACER commits to pro-actively stopping discharge and re-evaluating the discharge set-up, if the turbidity or TSS readings reach the acceptable monthly averages of 80 NTU and 35 mg/L, respectively.

Should you have any questions, please do not hesitate to contact us.



**KEY PLAN**  
SCALE: 1" = 1,000'

**LEGEND**  
— 590 — SEDIMENT CONTOUR

NOTE:  
100-YEAR FLOODPLAIN ELEVATION AT THIS LOCATION ON THE SAGINAW RIVER IS 589.3 FEET NGVD29.

SOURCES:  
2015 SURVEY OF OUTFALL 21 AREA BY GHD;  
2016 SURVEY OF SEDIMENT SAMPLES BY NORMANDEAU ASSOCIATES, INC.

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**RACER TRUST  
SAGINAW NODULAR INDUSTRIAL LAND**

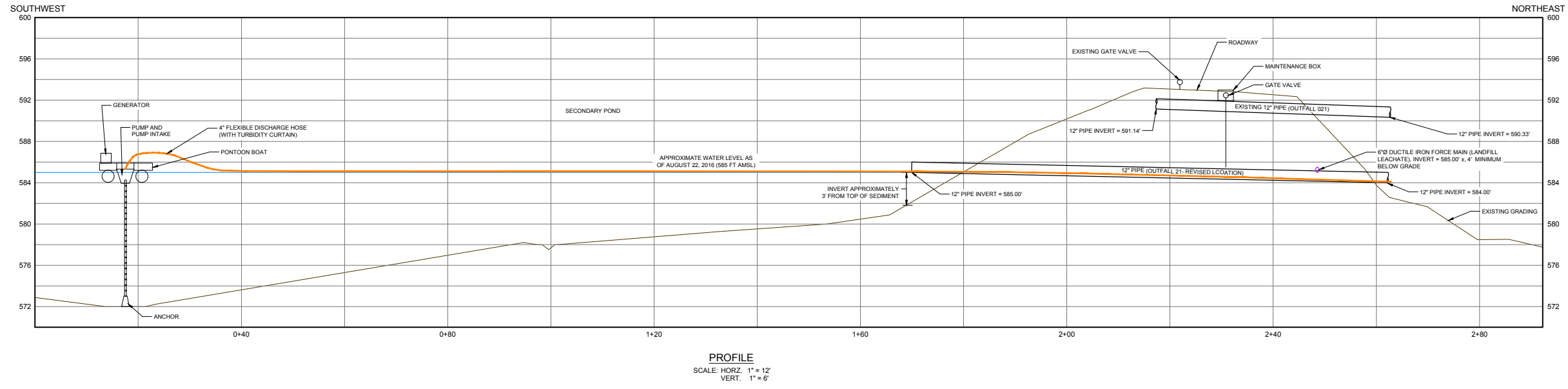
SAGINAW, MICHIGAN

**OUTFALL 21 PROFILE**



Source Reference:

Project Manager: MT	Reviewed By: JEP	Date: AUGUST 2016
Scale: AS SHOWN	Project No: 58502-T02	Report No: MEMO021 Drawing No: figure 1



**PROFILE**  
SCALE: HORIZ. 1" = 12'  
VERT. 1" = 6'