



**US Army Corps  
of Engineers**  
St Paul District

**APPLICANT:** City of Stoughton

# **Public Notice**

**ISSUED: August 4, 2022**

**EXPIRES: September 4, 2022**

**REFER TO:** MVP-2020-00368-CCK

**SECTION: 404 - Clean Water Act**

1. APPLICATION FOR PERMIT TO discharge fill material permanently into approximately 1.27 acres, as well as 0.86 acres of temporary impacts for fill and excavation, of the Yahara River.

## 2. SPECIFIC INFORMATION

**APPLICANT** City of Stoughton  
c/o Dan Glynn  
207 S Forrest Street  
Stoughton, WI 53589

**PROJECT LOCATION:** The project site is located in the SW  $\frac{1}{4}$ , NE  $\frac{1}{4}$ , Section 08, Township 05 North, Range 11 East, Dane County, Wisconsin. The approximate coordinates are Latitude 42.9135952080, Longitude -89.21802901.

**DESCRIPTION OF PROJECT:** The applicant is proposing to remove the Stoughton Dam structure including: the dam superstructure, bridge, radial tainter gates, and sluiceway stoplogs, to be replaced with an adjustable whitewater feature constructed on the existing dam foundation. The powerhouse headrace and tailrace area(s) would be filled (0.821 acre), and a new open water area would be created (0.423 acre). River corridor improvements proposed in the project include safety modifications to the existing dam, in-stream structures for recreational use and habitat enhancement, riverbank and river access improvements, and a multi-use trail system spanning the project area. A new channel through the existing dam embankment would allow instream users to pass through a series of drop-pool features, creating a recreational amenity, improving instream safety, and providing new aquatic habitat and improving fish passage. A proposed trail would run the length of the project area and provide access to the proposed river improvements.

Downstream of the Fourth Street Bridge, a boulder structure is proposed to enhance aquatic habitat, provide grade control, and improve safety for river users passing through the upstream culverts. Other improvements downstream of Fourth Street include riprap protection of an existing sewer line, and several current deflectors which improve habitat by providing hydraulic heterogeneity and complexity. Boulders will also be placed at multiple locations throughout the project to create a similar effect by forming small eddies and creating flow complexity. Existing concrete walls along the river's edge downstream of Fourth Street would be removed. Boulder access points would minimize negative impacts that can result from heavily used areas and provide safe access to the water.

The project would be constructed first by dewatering the work site, with appropriate water and sediment controls to minimize turbidity and impacts to the river outside of the project area. The first phase of dewatering and construction would route river flows through the existing powerhouse, similar to previous dam maintenance work. The work would require earth moving equipment including hydraulic excavators, concrete and steel demolition and removal equipment, and reinforced concrete formwork and associated equipment. Once in-stream

improvements in the phase one dewatered area are complete, river flows will be routed through the constructed improvements allowing the existing headrace and tailrace to be dewatered then filled. Temporary impacts include construction access, cofferdams, and the dewatered work area.

**QUANTITY, TYPE, AND AREA OF FILL:** The proposed project would result in the discharge of fill material within approximately 1.27 acres of the Yahara River.

**VEGETATION IN AFFECTED AREA:** The affected stream areas consist of vegetation commonly associated with open water riverine areas.

**SOURCE OF FILL MATERIAL:** Fill material will be sourced by the contractor who is selected for the project.

**SURROUNDING LAND USE:** The project is in the downtown historic area of Stoughton, Wisconsin surrounded by a mix of residential, commercial and light industrial areas. The 4<sup>th</sup> Street bridge bisects the project and parks are located adjacent to the dam on the south side of the river.

**DESCRIPTION OF DREDGING OR EXCAVATION:** Excavation of approximately 0.03 acre of stream would occur as a result of demolition and removal of the existing dam.

**THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE:** The applicant has indicated the presence of contaminated soil from an old foundry site near the dam and has stated that the contractor will be required to provide documentation of proper disposal at a licensed facility.

**THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT:** The proposed project will be required to comply with the state's erosion control and storm water best management practices if applicable.

### 3. FEDERALLY-LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT

None were identified by the applicant or are known to exist in the permit area. However, the project is within the known range of the following Federally-listed species:

Northern Long-Eared Bat	Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
Rusty Patched Bumble Bee	Grasslands with flowering plants from April through October, underground and abandoned rodent cavities or clumps of grasses above ground as nesting sites, and undisturbed soil for hibernating queens to overwinter.

The National Park Service is the lead federal agency for this project and will coordinate with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally-listed

threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

#### 4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

#### 5. STATE SECTION 401 WATER QUALITY CERTIFICATION

A permit will not be granted until the Wisconsin Department of Natural Resources has issued or waived Section 401 certification.

#### 6. HISTORICAL/ARCHAEOLOGICAL

The National Park Service, as the lead federal agency, will review information on known cultural resources and/or historic properties within and adjacent to the project area. They will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the NPS determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

#### 7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

#### 8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public

interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

#### REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be addressed to:

Regulatory Division  
St. Paul District Corps of Engineers  
180 Fifth Street East, Suite 700  
St. Paul, MN 55101-1678

IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact Caree Kovacevich at the St. Paul District office at 651-290-5358 or email [Caree.C.Kovacevich@usace.army.mil](mailto:Caree.C.Kovacevich@usace.army.mil).

NOTE: NEW PROCEDURE: If you wish to receive St. Paul District public notice notifications please visit our website at <https://www.mvp.usace.army.mil/Missions/Regulatory/Public-Notices/> for instructions to subscribe to individual RSS Feed categories. Click on "Public Notice RSS Feed" at the top of the page.

Enclosures: Drawings



# CITY OF STOUGHTON Yahara River Park

60% DESIGN  
MARCH 3, 2022



NON-EMERGENCY UTILITY OWNER CONTACTS  
CALL WISCONSIN 811 SYSTEM AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING FOR UNDERGROUND UTILITY LOCATES

DIGGERS HOTLINE, INC.  
811 OR  
1-800-242-8511

ADDRESS:  
14100 WEST NATIONAL AVENUE  
NEW BERLIN WI 53151



**PROJECT LOCATION:**

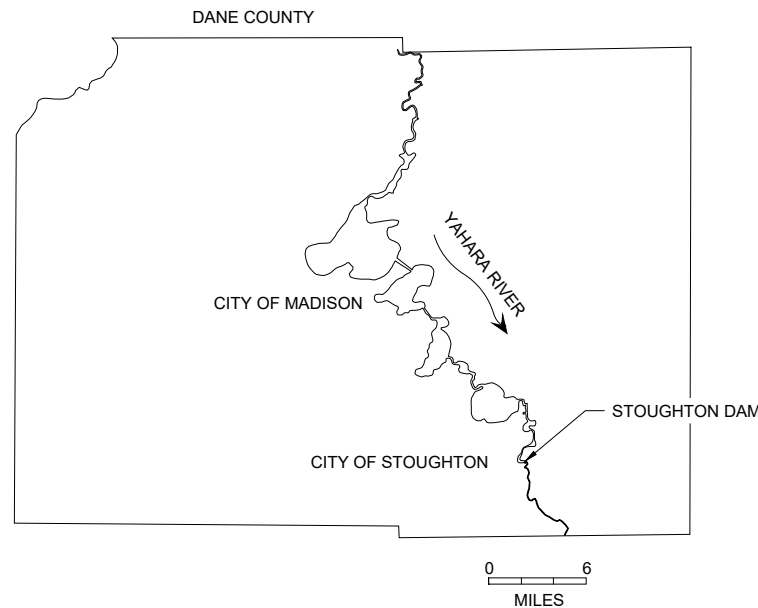
LATITUDE: 42° 54' 48.6" N  
LONGITUDE: 89° 13' 07.7" W

DANE COUNTY



VICINITY MAP

SCALE: 1"=500' (FOR 22X34" SHEETS)



0 6  
MILES

**SHEET INDEX:**

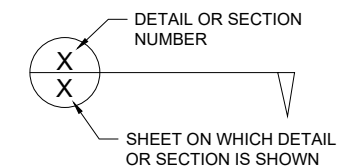
SHEET NUMBER	SHEET TITLE
1	COVER & TOC
2	EXISTING CONDITIONS
3	DEMOLITION & REMOVAL
4	SITE STAGING, ACCESS & DEWATER PLAN PHASE 1
5	SITE STAGING, ACCESS & DEWATER PLAN PHASE 2
6	SITE PLAN - RIVER PARK
7	SITE GRADING 1
8	SITE GRADING 2
9	SITE GRADING 3
10	DAM RECONSTRUCTION PLAN & PROFILE
11	NEW CHANNEL PLAN & PROFILE
12	SOFT PATH PLAN & PROFILE
13	NEW TRAIL UNDERPASS PLAN & PROFILE
14	DOWNSTREAM OF FOURTH STREET
15	DAM RECONSTRUCTION DETAIL
16	GATE BAY DETAIL
17	FOURTH STREET DETAIL
18	TRAIL UNDERPASS DETAIL
19	CREST DETAIL
20	BOULDER STRUCTURE DETAIL
21	MISCELLANEOUS DETAILS
22	DETAILS
23	PLANTING BANK DETAILS
24	TRAIL DETAILS
25	DEWATERING TYPICAL
26	TYPICAL BMPs
27	PROJECT SPECIFICATIONS
28	PROJECT SPECIFICATIONS

**LEGEND:**

EXISTING GRADE CONTOURS	
PROPOSED GRADE CONTOURS	
PARCEL BOUNDARIES	
RIVER CENTERLINE (THALWEG)	
BOULDERS AND TERRACING	
REVEGETATION AREA	
RIPRAP ARMORING	
CONCRETE	

**ABBREVIATIONS:**

AVG	AVERAGE
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
BLDG	BUILDING
BM	BENCHMARK
CONC	CONCRETE
DIA	DIAMETER
DTL	DETAIL
DS	DOWNSTREAM
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
FT	FEET
HDPE	HIGH DENSITY POLYPROPYLENE
IN	INCHES
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NTS	NOT TO SCALE
OC	ON CENTER
OHWM	ORDINARY HIGH WATER MARK
SHT	SHEET
STA	STATION
STD	STANDARD
STRM	STORM
TYP	TYPICAL

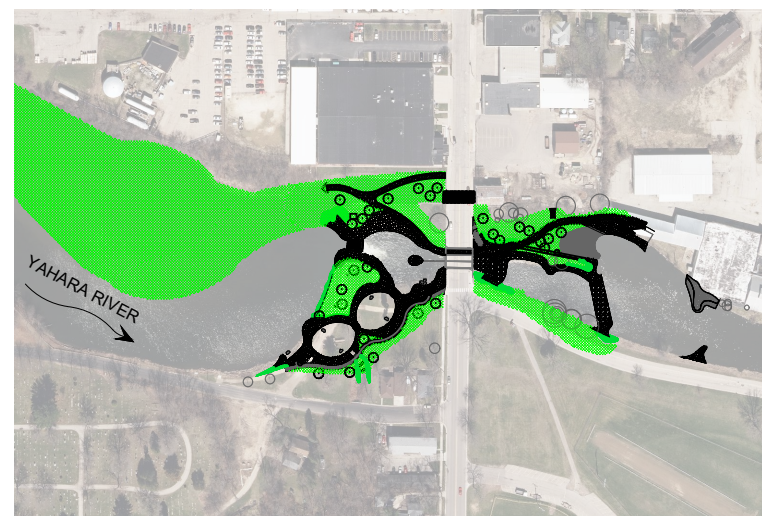


**SURVEY NOTES:**

1. SURVEY COMPLETED BY STRAND ASSOCIATES IN 2020 AND 2021
2. LIMITED BATHYMETRIC DATA COLLECTED BY JSD PROFESSIONAL SERVICES INC ON JUNE 24, 2019.
3. MILL POND BATHYMETRIC DATA COLLECTED BY INTERFLUVE.
4. ELEVATIONS REFERENCE VERTICAL DATUM NAVD88.

**PROJECT OWNER:**

CITY OF STOUGHTON  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53589



SITE PLAN

SCALE: 1"=200' (FOR 22X34" SHEETS)



RECREATION ENGINEERING AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53589

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
COVER & TOC

**REVISIONS:**

NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

**DRAWING NO.**

1

SHEET 1 OF 28



RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
EXISTING CONDITIONS

REVISIONS:

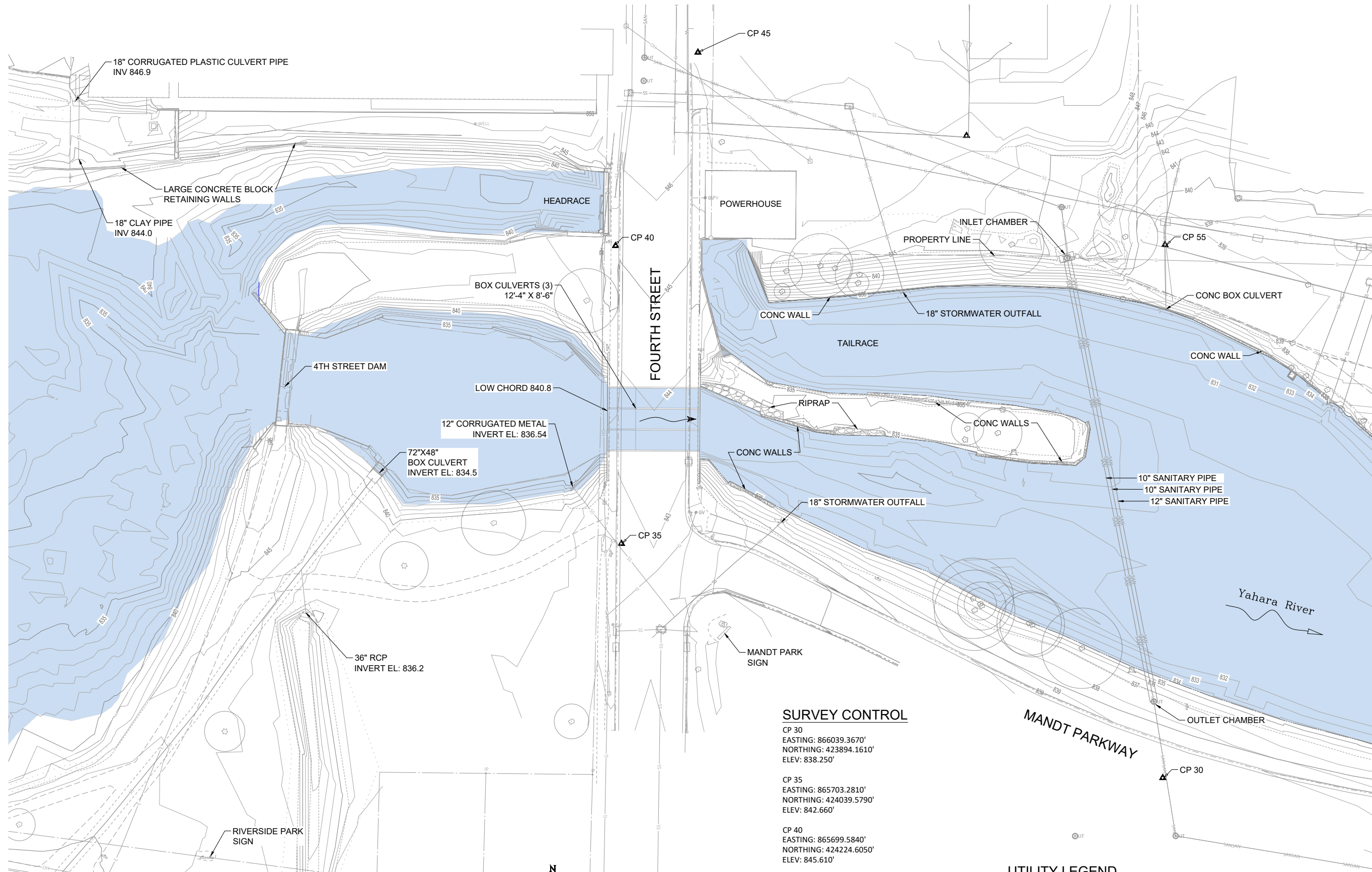
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

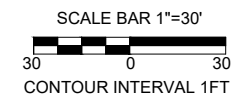
DRAWING NO.

2

SHEET 2 OF 28



EXISTING CONDITIONS



**SURVEY CONTROL**

- CP 30  
EASTING: 866039.3670'  
NORTHING: 423894.1610'  
ELEV: 838.250'
- CP 35  
EASTING: 865703.2810'  
NORTHING: 424039.5790'  
ELEV: 842.660'
- CP 40  
EASTING: 865699.5840'  
NORTHING: 424224.6050'  
ELEV: 845.610'
- CP 45  
EASTING: 865750.7290'  
NORTHING: 424344.7200'  
ELEV: 847.430'
- CP 55  
EASTING: 866040.7240'  
NORTHING: 424225.1910'  
ELEV: 839.470'

**UTILITY LEGEND**

- SS STORM SEWER
- SAN SANITARY SEWER
- W WATER LINE
- OH OVERHEAD UTILITY LINE
- G GAS LINE





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

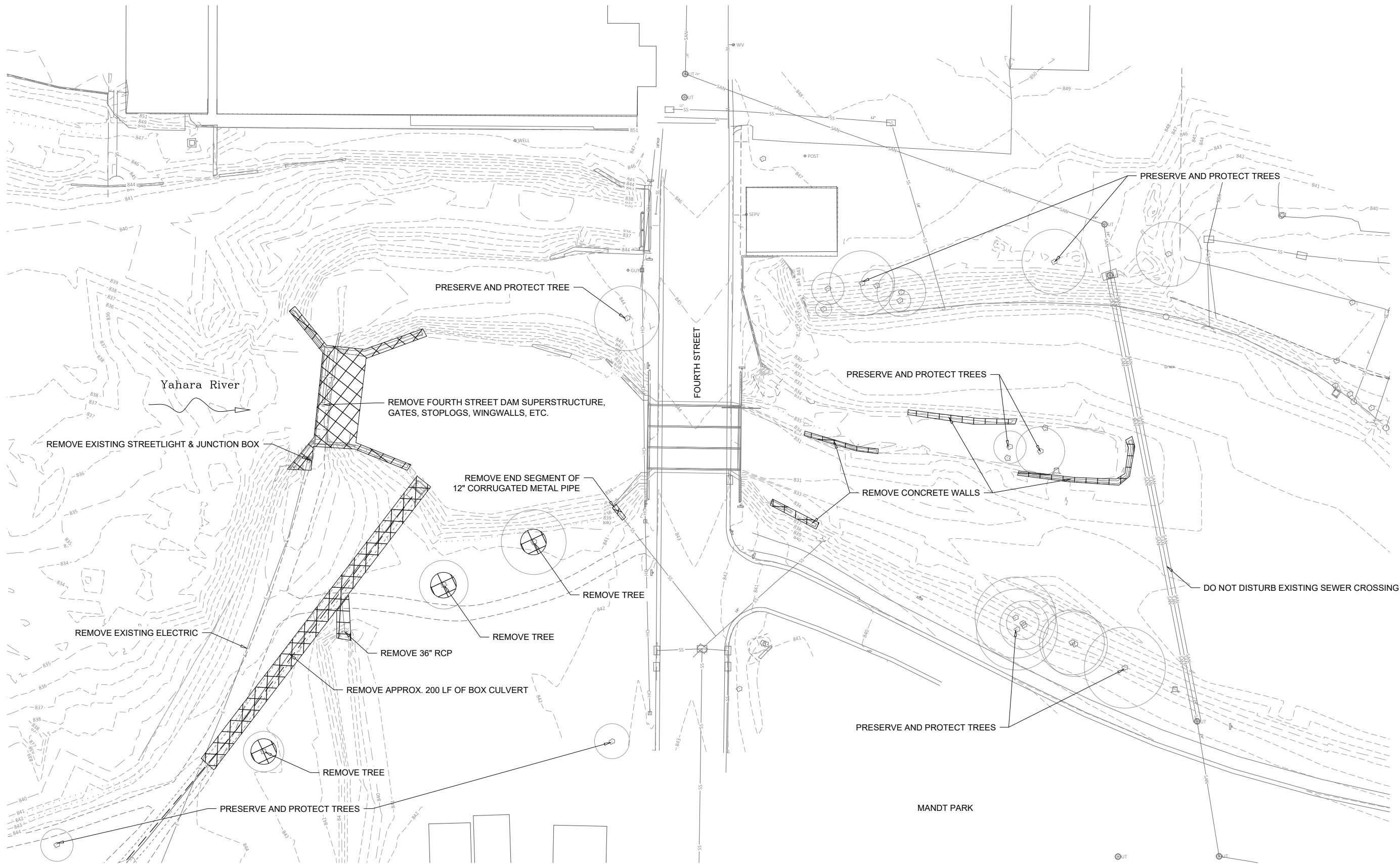
YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
DEMO AND REMOVAL

REVISIONS:

NO.	DATE

DESIGNED: ML    DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.  
**3**  
SHEET 3 OF 28



**DEMOLITION & REMOVAL**



SCALE BAR 1"=20'  
20 0 20  
CONTOUR INTERVAL 2FT





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
Preliminary - Not For Construction  
SITE STAGING, ACCESS & DEWATER PLAN  
PHASE 1

REVISIONS:

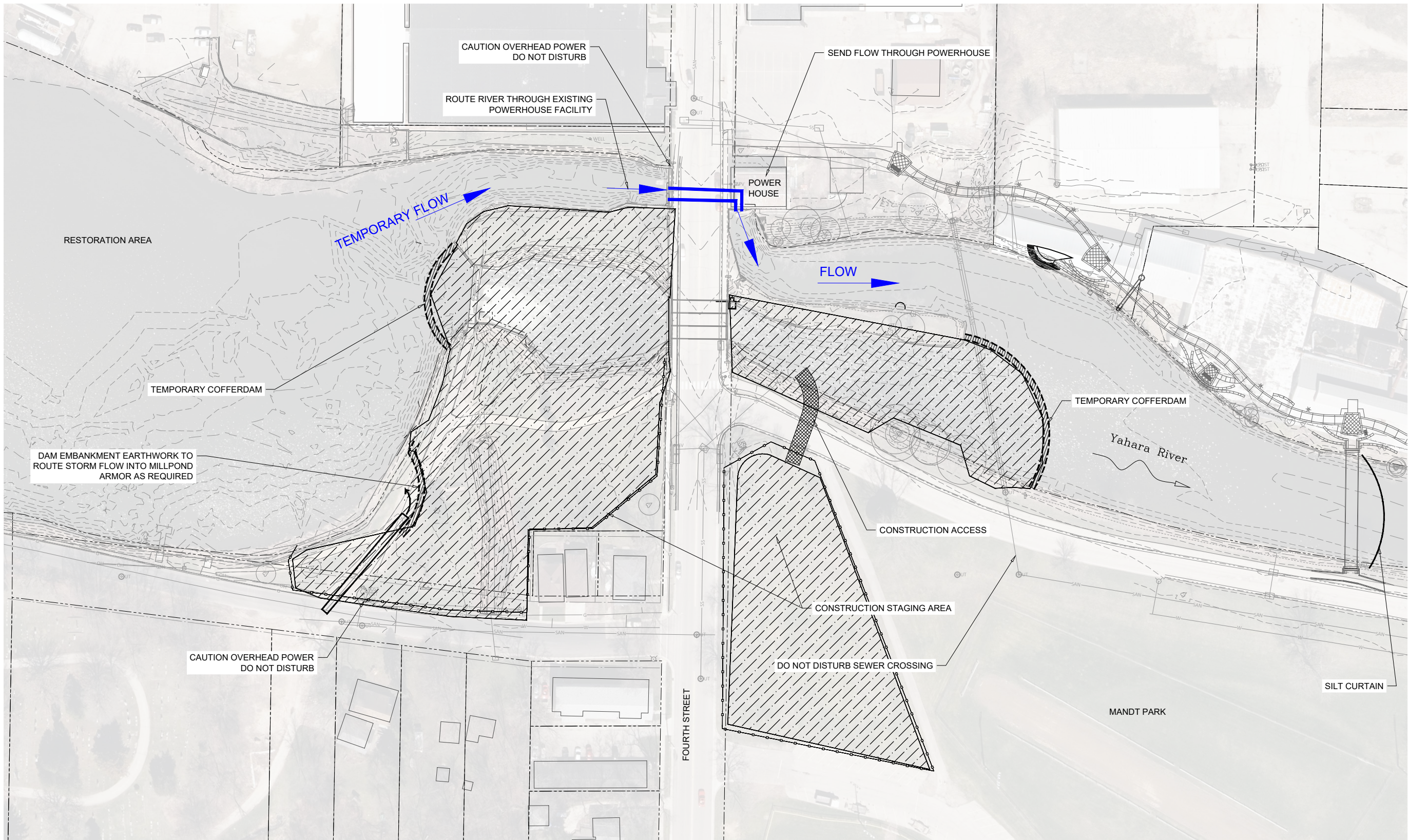
NO.	DATE

DESIGNED:      DRAFTED:  
CHECKED:      PLOT DATE: 3/3/2022

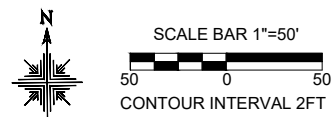
DRAWING NO.

**4**

SHEET 4 OF 28



**SITE STAGING & ACCESS PLAN PHASE 1**



STAGING AND DEWATERING TO BE DESIGNED AND PERFORMED BY A QUALIFIED CONTRACTOR





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
Preliminary - Not For Construction  
SITE STAGING, ACCESS & DEWATER PLAN  
PHASE 2

REVISIONS:

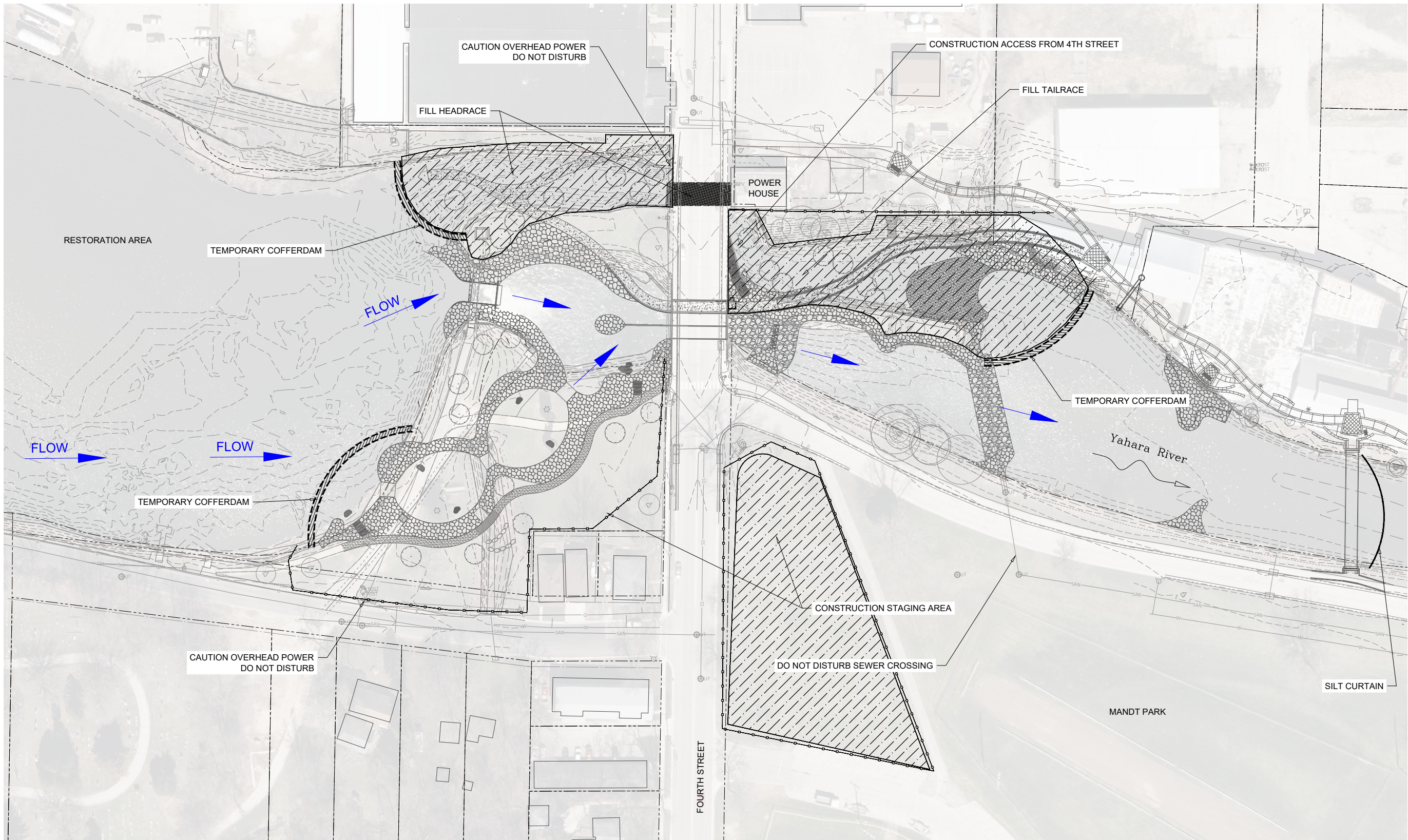
NO.	DATE

DESIGNED:      DRAFTED:  
CHECKED:      PLOT DATE: 3/3/2022

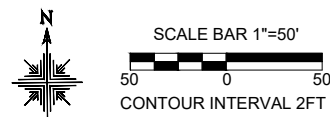
DRAWING NO.

**5**

SHEET 4 OF 28



**SITE STAGING & ACCESS PLAN PHASE 2**



STAGING AND DEWATERING TO BE DESIGNED AND PERFORMED BY A QUALIFIED CONTRACTOR





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
OHWM IMPACT EXHIBIT

REVISIONS:

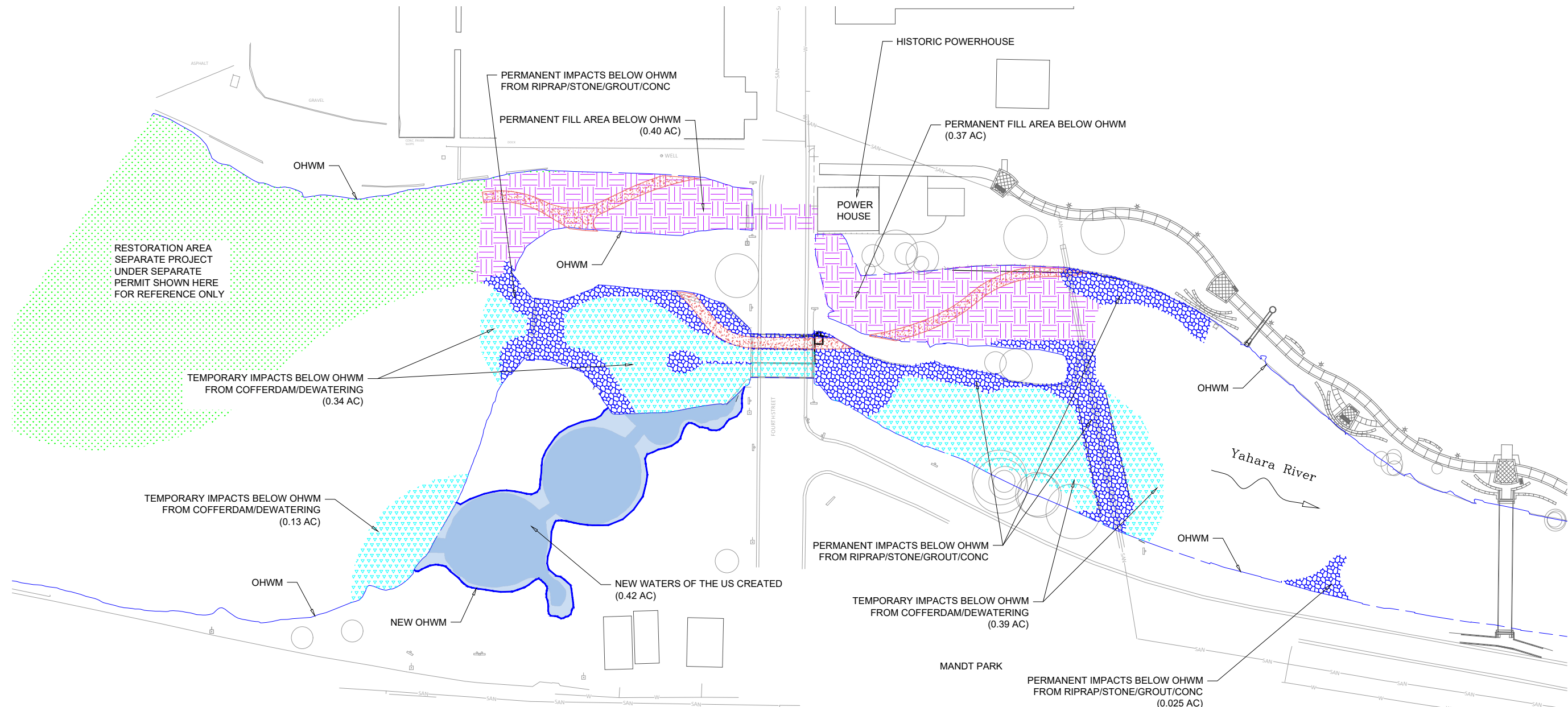
NO.	DATE

DESIGNED: ML    DRAFTED: RG  
CHECKED: XX  
PLOT DATE: 7/29/2022

DRAWING NO.

1

SHEET 1 OF 1



RESTORATION AREA  
SEPARATE PROJECT  
UNDER SEPARATE  
PERMIT SHOWN HERE  
FOR REFERENCE ONLY

TEMPORARY IMPACTS BELOW OHWM  
FROM COFFERDAM/DEWATERING  
(0.34 AC)

TEMPORARY IMPACTS BELOW OHWM  
FROM COFFERDAM/DEWATERING  
(0.13 AC)

PERMANENT IMPACTS BELOW OHWM  
FROM RIPRAP/STONE/GROUT/CONC

PERMANENT FILL AREA BELOW OHWM  
(0.40 AC)

PERMANENT FILL AREA BELOW OHWM  
(0.37 AC)

NEW WATERS OF THE US CREATED  
(0.42 AC)

PERMANENT IMPACTS BELOW OHWM  
FROM RIPRAP/STONE/GROUT/CONC

TEMPORARY IMPACTS BELOW OHWM  
FROM COFFERDAM/DEWATERING  
(0.39 AC)

PERMANENT IMPACTS BELOW OHWM  
FROM RIPRAP/STONE/GROUT/CONC  
(0.025 AC)

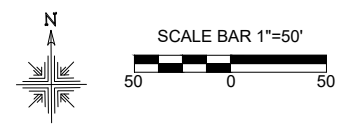
**LEGEND:**

PERMANENT IMPACTS BELOW OHWM (STONE/GROUT/CONCRETE)		0.47 ACRES
PERMANENT IMPACTS BELOW OHWM (EARTH FILL)		0.75 ACRES
NEW CONCRETE TRAIL		0.16 ACRES
TEMPORARY IMPACTS BELOW OHWM		0.86 ACRES
NEW WATERS OF THE U.S. CREATED		0.42 ACRES
EXISTING OHWM		
NEW OHWM		
NEW VEGETATION		

**ABBREVIATIONS:**

AC	ACRE
OHWM	ORDINARY HIGH WATER MARK
SAN	SANITARY SEWER
W	WATER
STD	STANDARD
TYP	TYPICAL

**OHWM IMPACT EXHIBIT**







RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

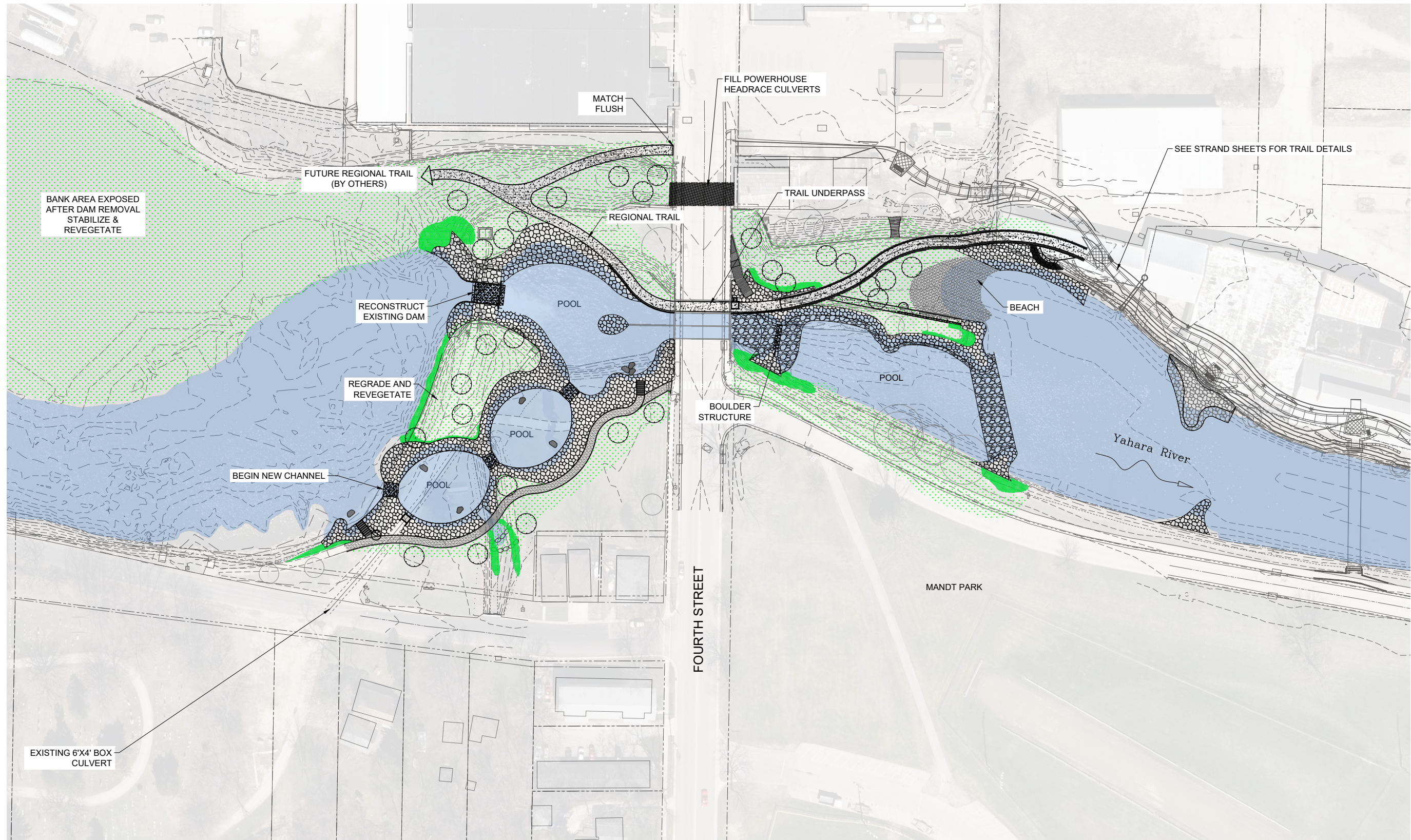
YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
SITE PLAN-RIVER PARK

REVISIONS:	
NO.	DATE
DESIGNED: ML	DRAFTED: RG
CHECKED: GL	
PLOT DATE: 3/3/2022	

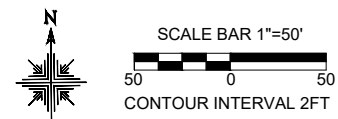
DRAWING NO.

**6**

SHEET 6 OF 28



**SITE PLAN - RIVER PARK**



- NOTES:  
1. SEEDING AND RESTORATION PLAN FOR EXPOSED BANK AREAS AFTER DAM REMOVAL DEVELOPED BY OTHERS





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
SITE GRADING 1

REVISIONS:

NO.	DATE

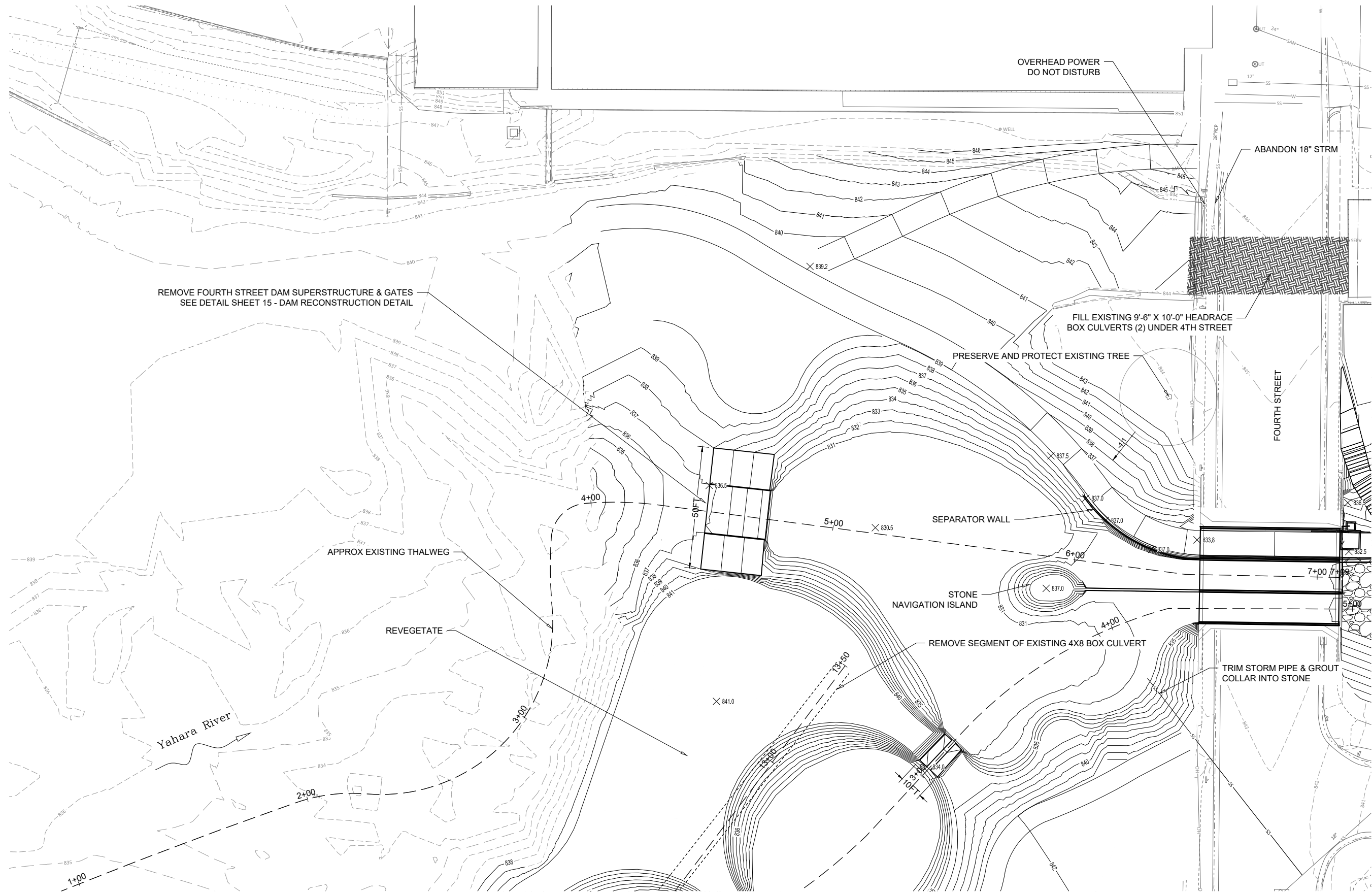
DESIGNED: ML DRAFTED: RG  
CHECKED: GL

PLOT DATE: 3/3/2022

DRAWING NO.

**7**

SHEET 7 OF 28



REMOVE FOURTH STREET DAM SUPERSTRUCTURE & GATES  
SEE DETAIL SHEET 15 - DAM RECONSTRUCTION DETAIL

OVERHEAD POWER  
DO NOT DISTURB

ABANDON 18" STRM

FILL EXISTING 9'-6" X 10'-0" HEADRACE  
BOX CULVERTS (2) UNDER 4TH STREET

PRESERVE AND PROTECT EXISTING TREE

FOURTH STREET

SEPARATOR WALL

STONE  
NAVIGATION ISLAND

REMOVE SEGMENT OF EXISTING 4X8 BOX CULVERT

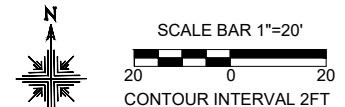
TRIM STORM PIPE & GROUT  
COLLAR INTO STONE

APPROX EXISTING THALWEG

REVEGETATE

Yahara River

SITE GRADING 1







RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80502  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
SITE GRADING 2

REVISIONS:

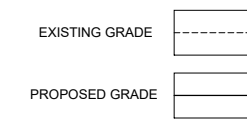
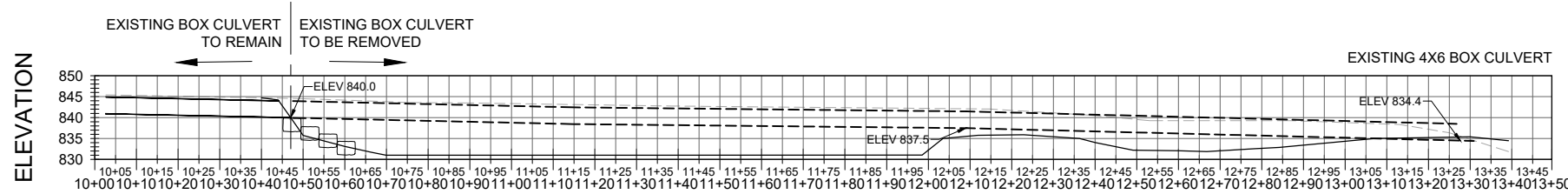
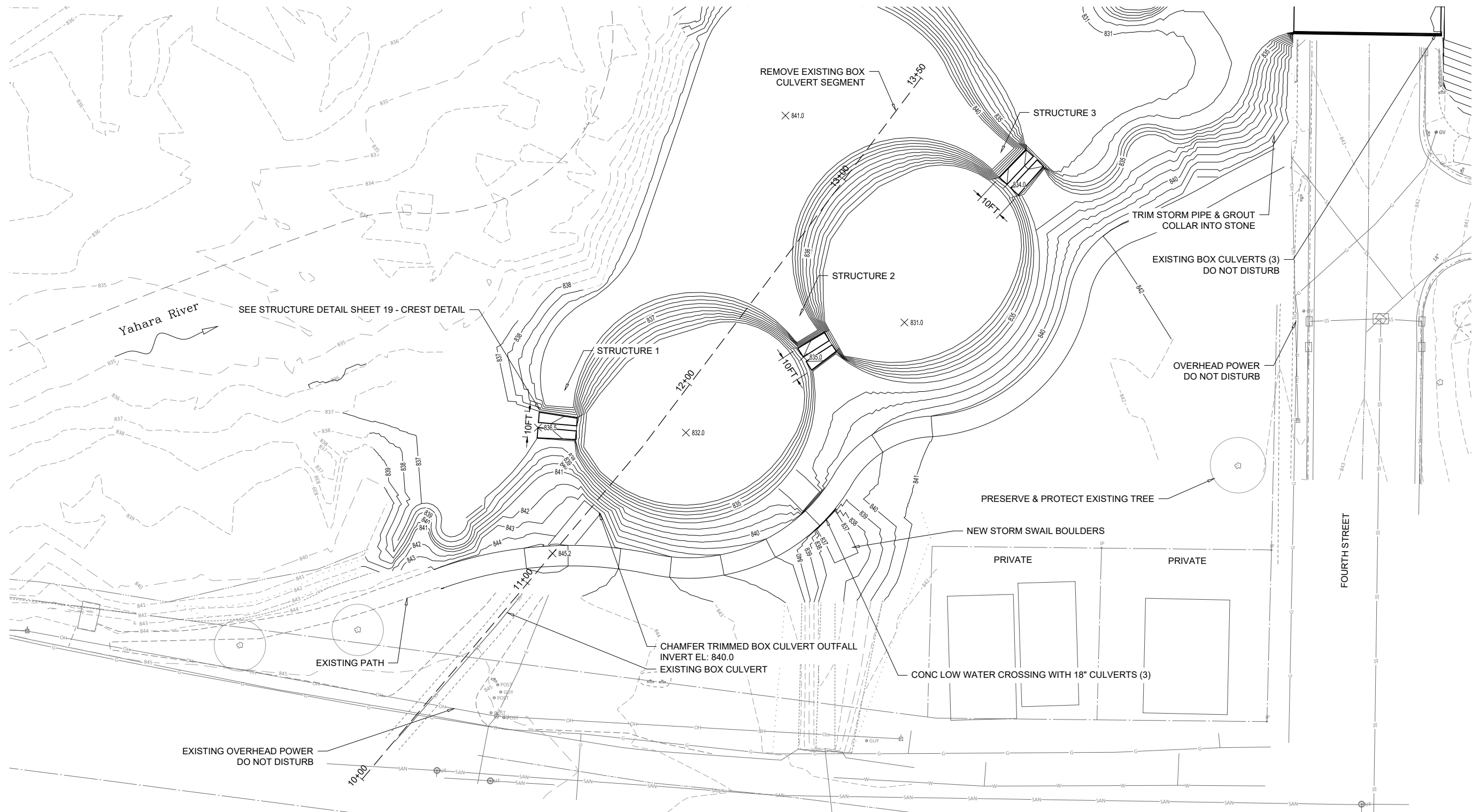
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

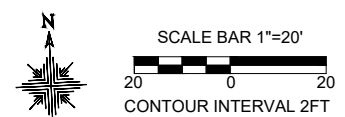
DRAWING NO.

**8**

SHEET 8 OF 28



**SITE GRADING 2**



- NOTES:
- EXISTING BOX CULVERT ELEVATIONS, DIMENSIONS AND ALIGNMENT BASED ON AS BUILT RECORD DRAWINGS PROVIDED BY MEAD & HUNT, INC DATED 02/01/2010. BOX CULVERT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE. FIELD SURVEY TO BE COMPLETED BEFORE CONSTRUCTION.



RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
SITE GRADING 3

REVISIONS:

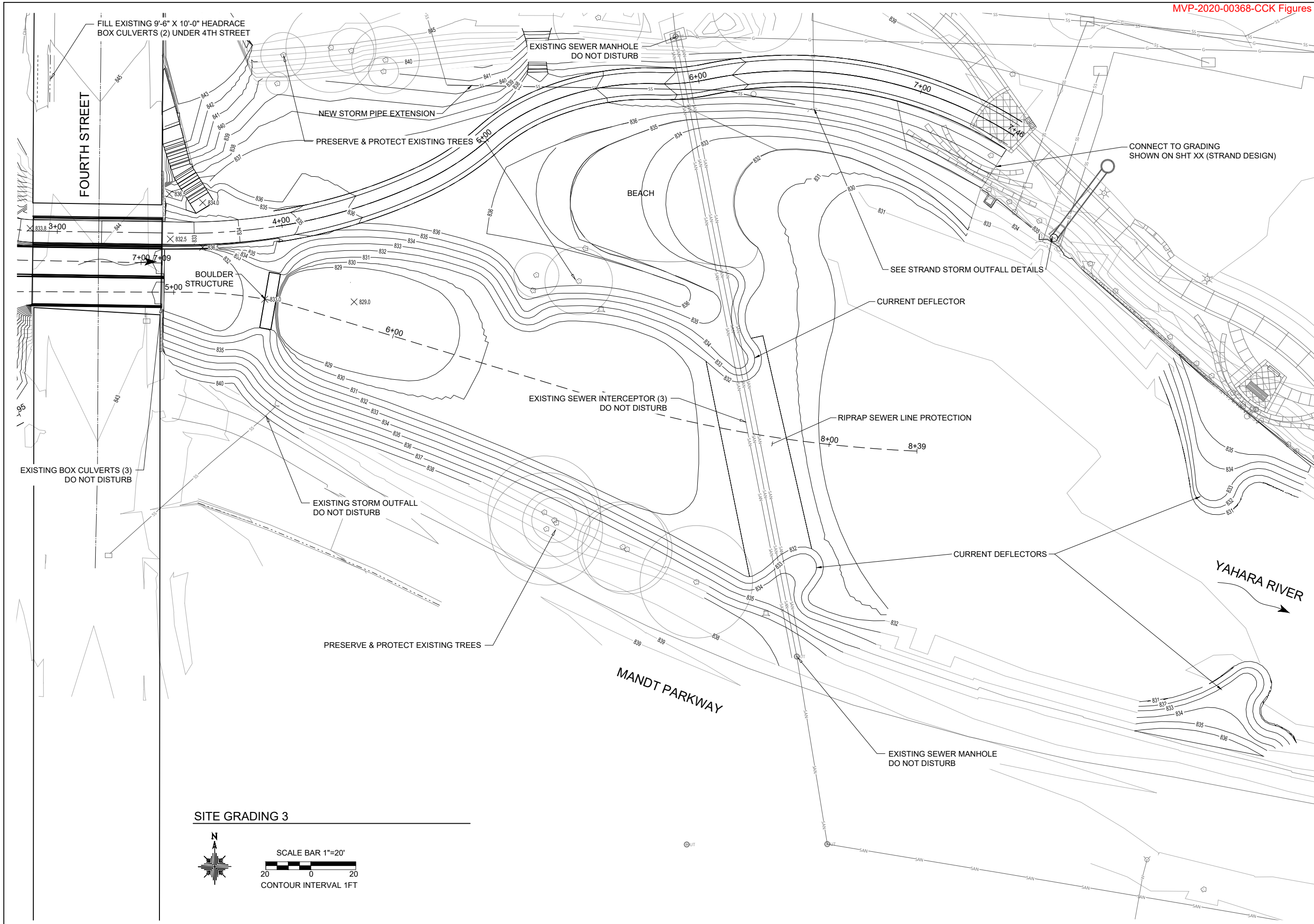
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

**9**

SHEET 9 OF 28



**SITE GRADING 3**



CONTOUR INTERVAL 1FT





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
DAM RECONSTRUCTION PLAN & PROFILE

REVISIONS:

NO.	DATE

DESIGNED: ML DRAFTED: RG

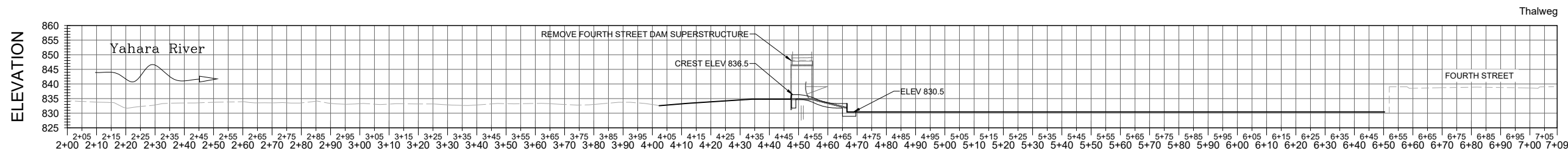
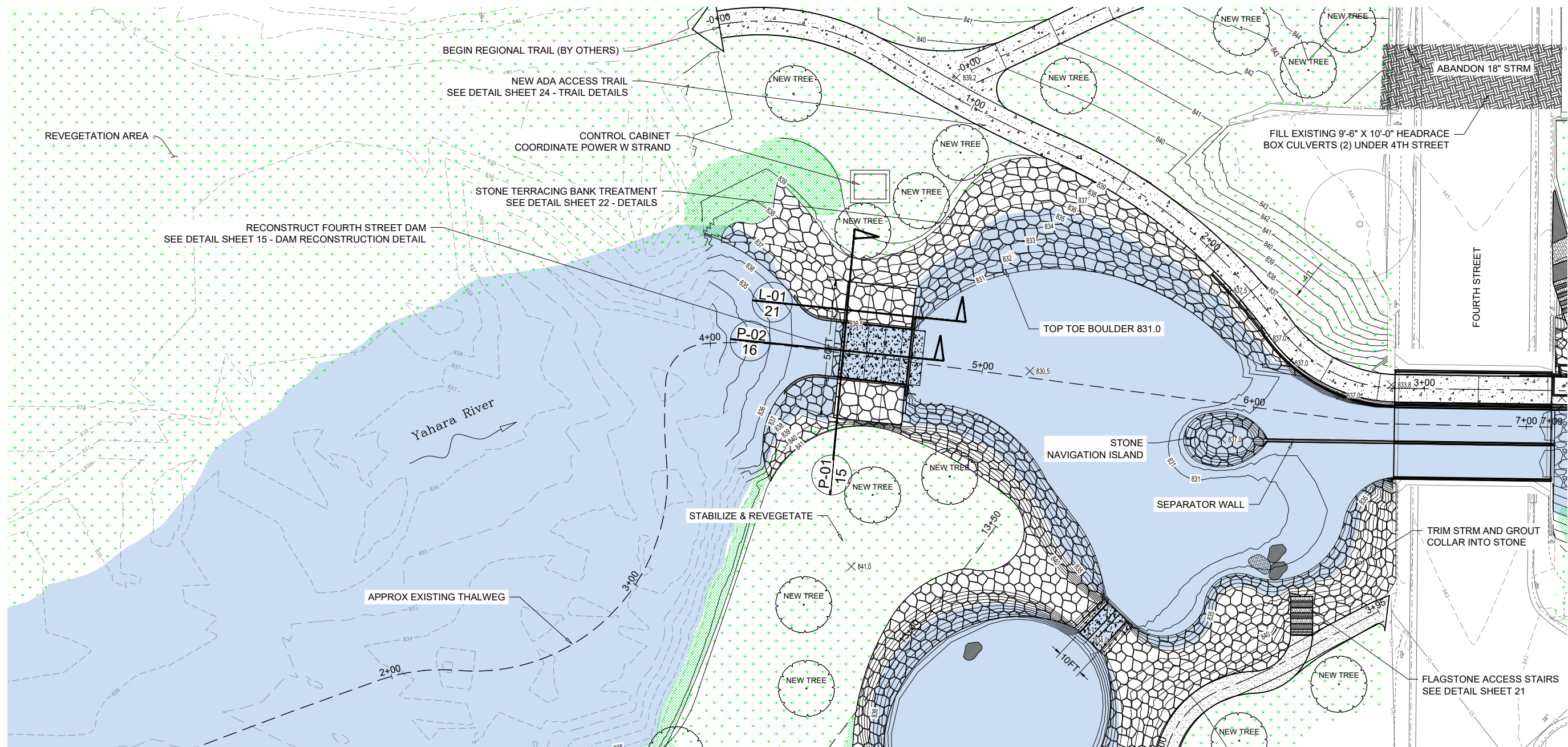
CHECKED: GL

PLOT DATE: 3/3/2022

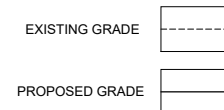
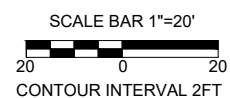
DRAWING NO.

10

SHEET 10 OF 28



SITE PLAN & PROFILE



NOTES:

- EXISTING FOURTH STREET DAM ELEVATIONS, DIMENSIONS AND ALIGNMENT BASED ON AS BUILT RECORD DRAWINGS PROVIDED BY MEAD & HUNT, INC DATED 02/01/2010.





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
NEW CHANNEL PLAN & PROFILE

REVISIONS:

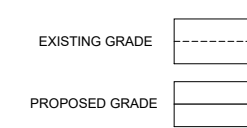
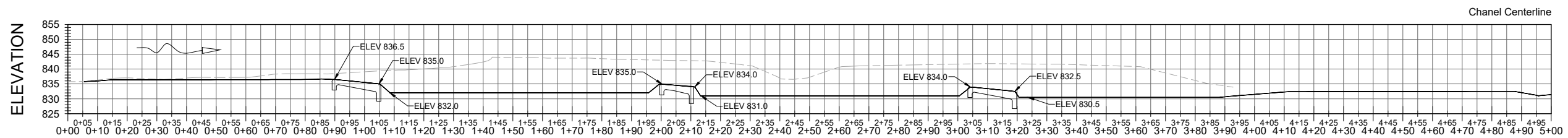
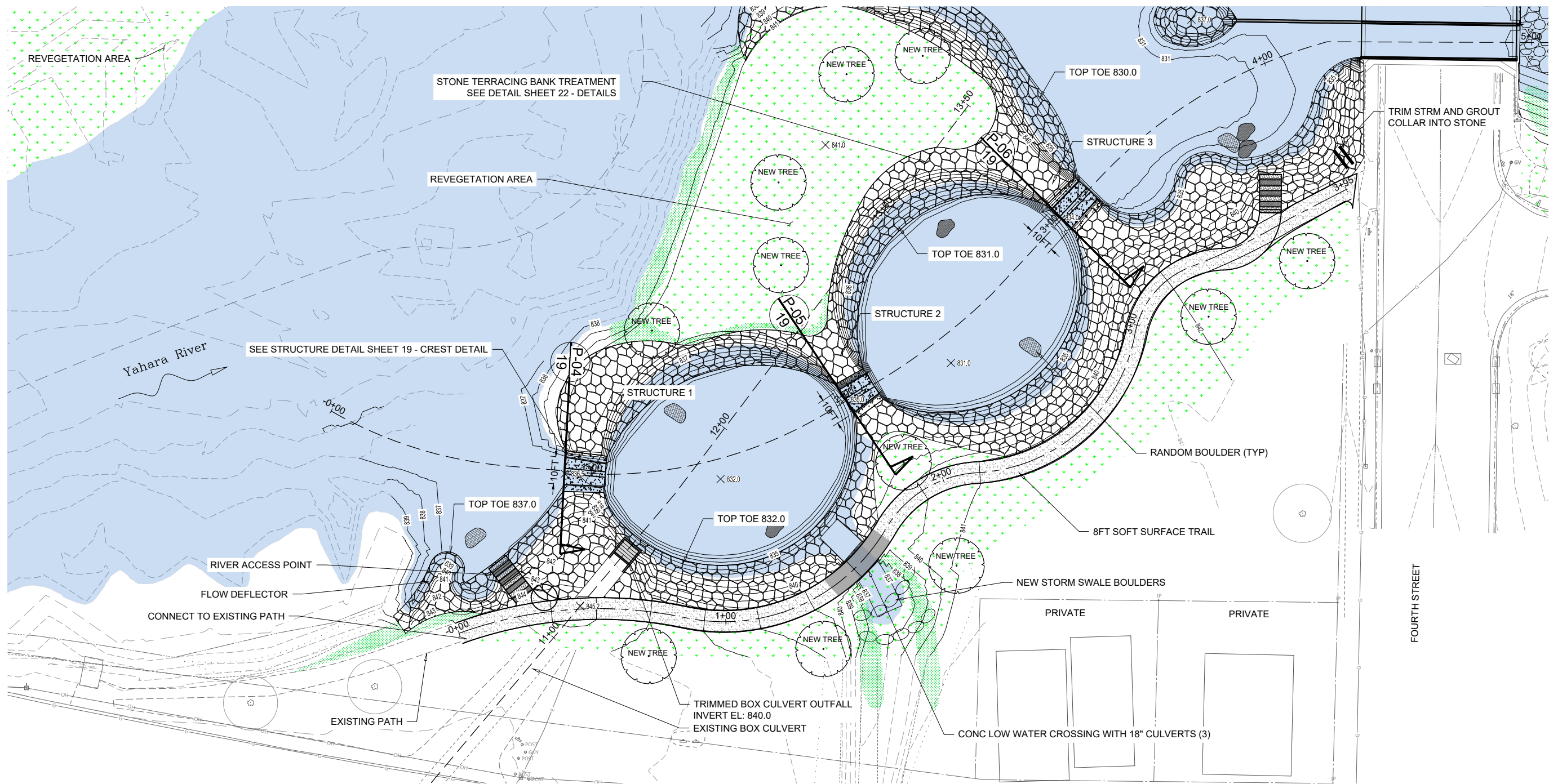
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

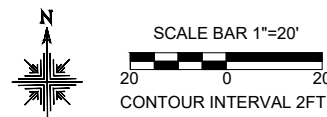
DRAWING NO.

11

SHEET 11 OF 28



SITE PLAN & PROFILE



NOTES:

- EXISTING BOX CULVERT ELEVATIONS, DIMENSIONS AND ALIGNMENT BASED ON AS BUILT RECORD DRAWINGS PROVIDED BY MEAD & HUNT, INC DATED 02/01/2010. BOX CULVERT ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE. FIELD SURVEY TO BE COMPLETED BEFORE FURTHER DESIGN.





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
SOFT PATH PLAN & PROFILE

REVISIONS:

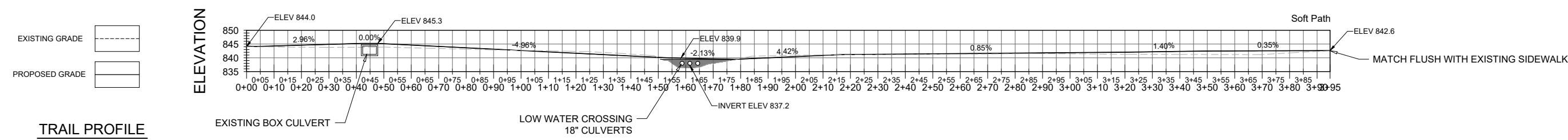
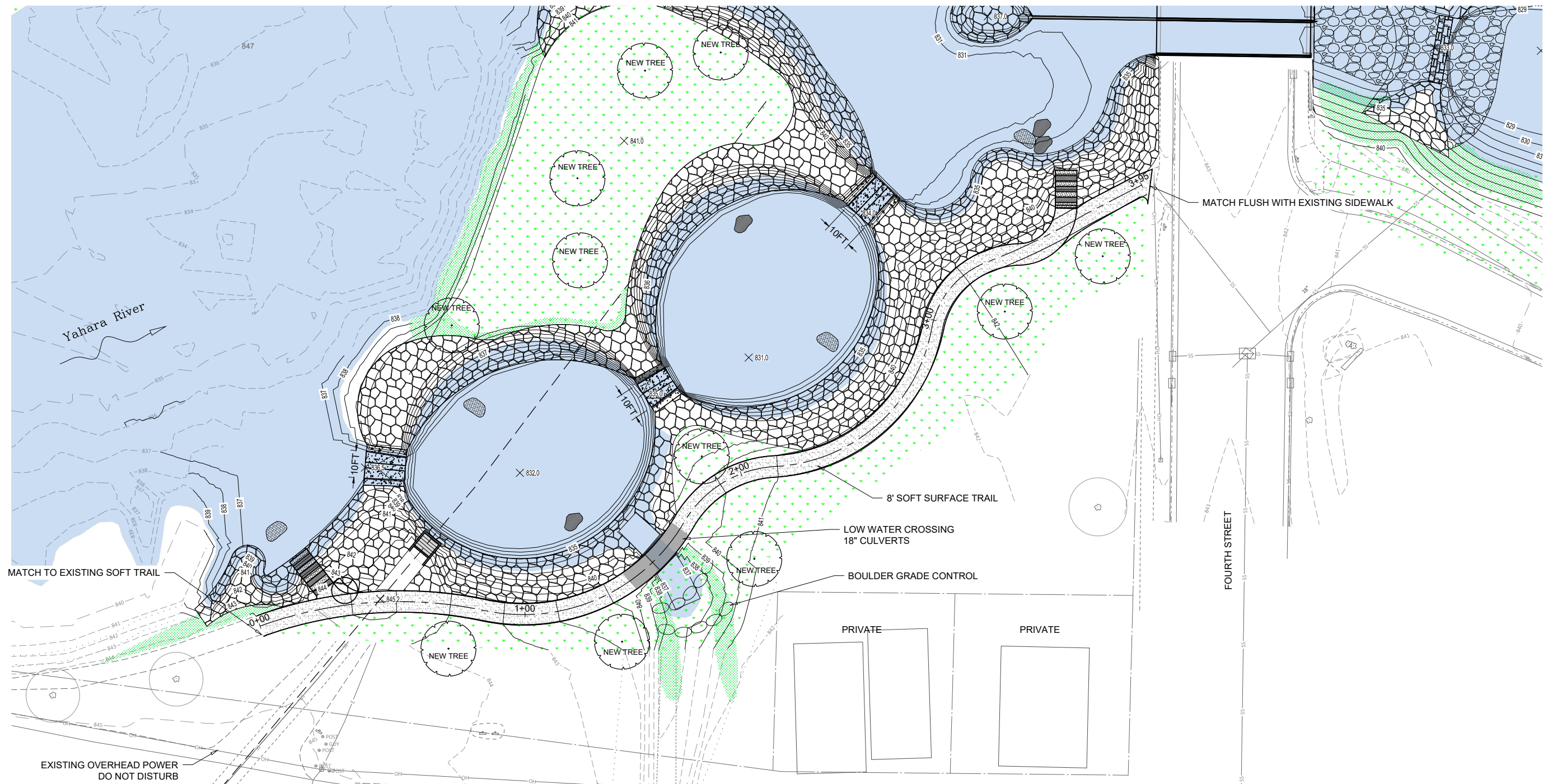
NO.	DATE

DESIGNED: ML    DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

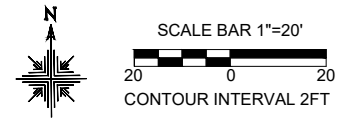
12

SHEET 12 OF 28



TRAIL PROFILE

SOFT PATH PLAN & PROFILE







RECREATION ENGINEERING  
AND PLANNING  
485 APARAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
TRAIL UNDERPASS PLAN & PROFILE

REVISIONS:

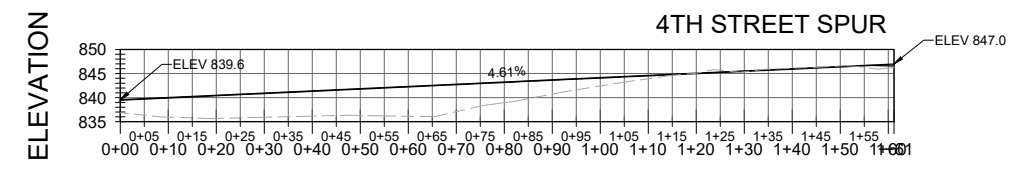
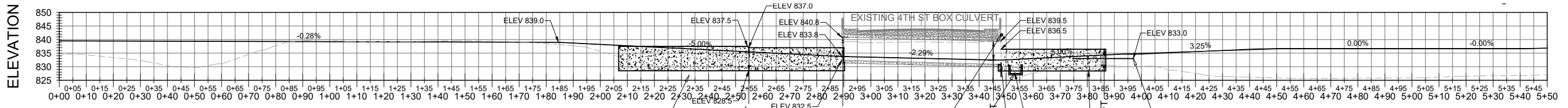
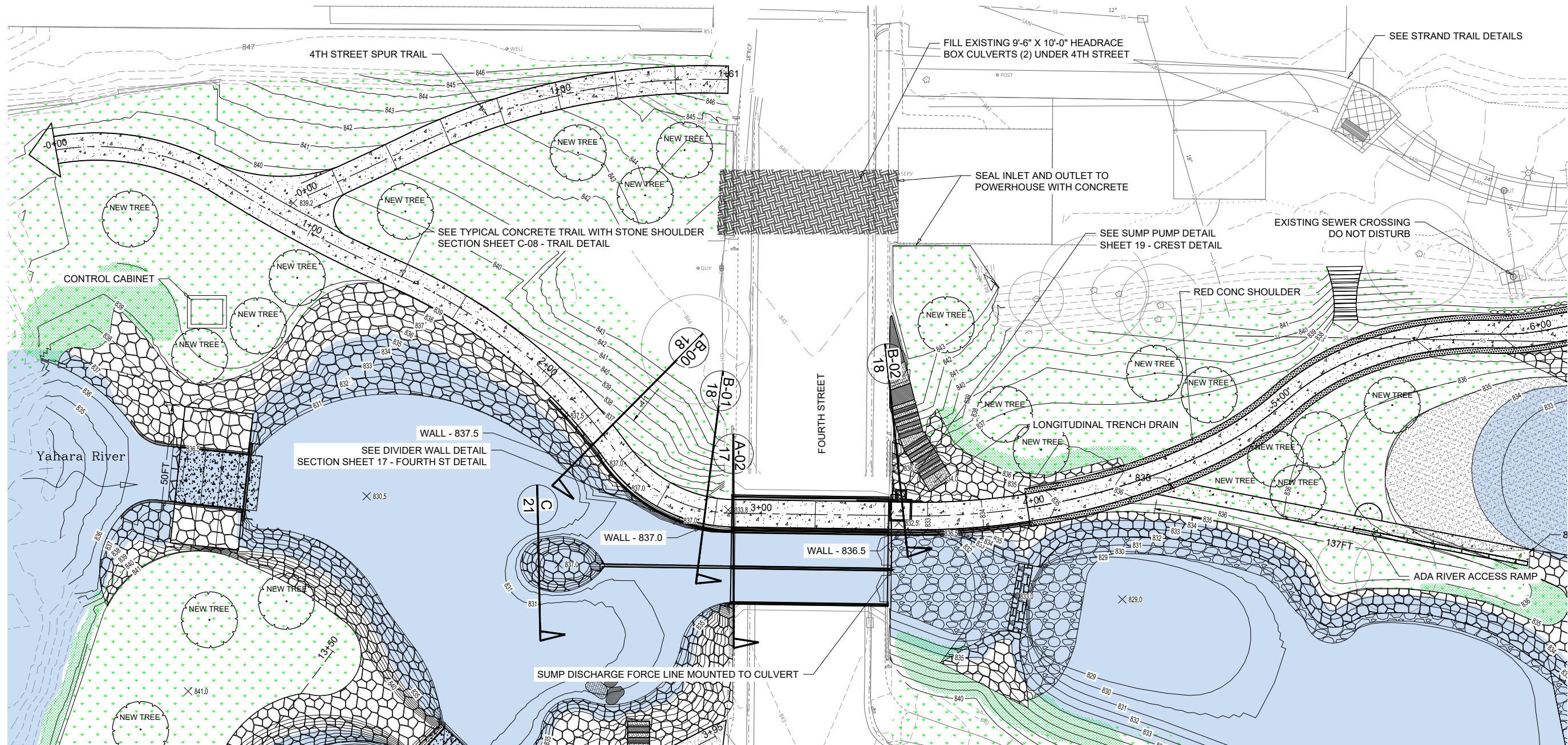
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

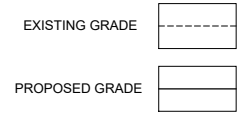
DRAWING NO.

13

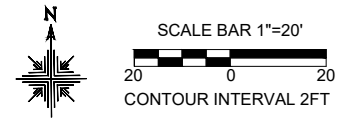
SHEET 13 OF 28



TRAIL PROFILE



TRAIL UNDERPASS PLAN & PROFILE



TRAIL PROFILE





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER CO | 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
DOWNSTREAM OF 4TH ST

REVISIONS:

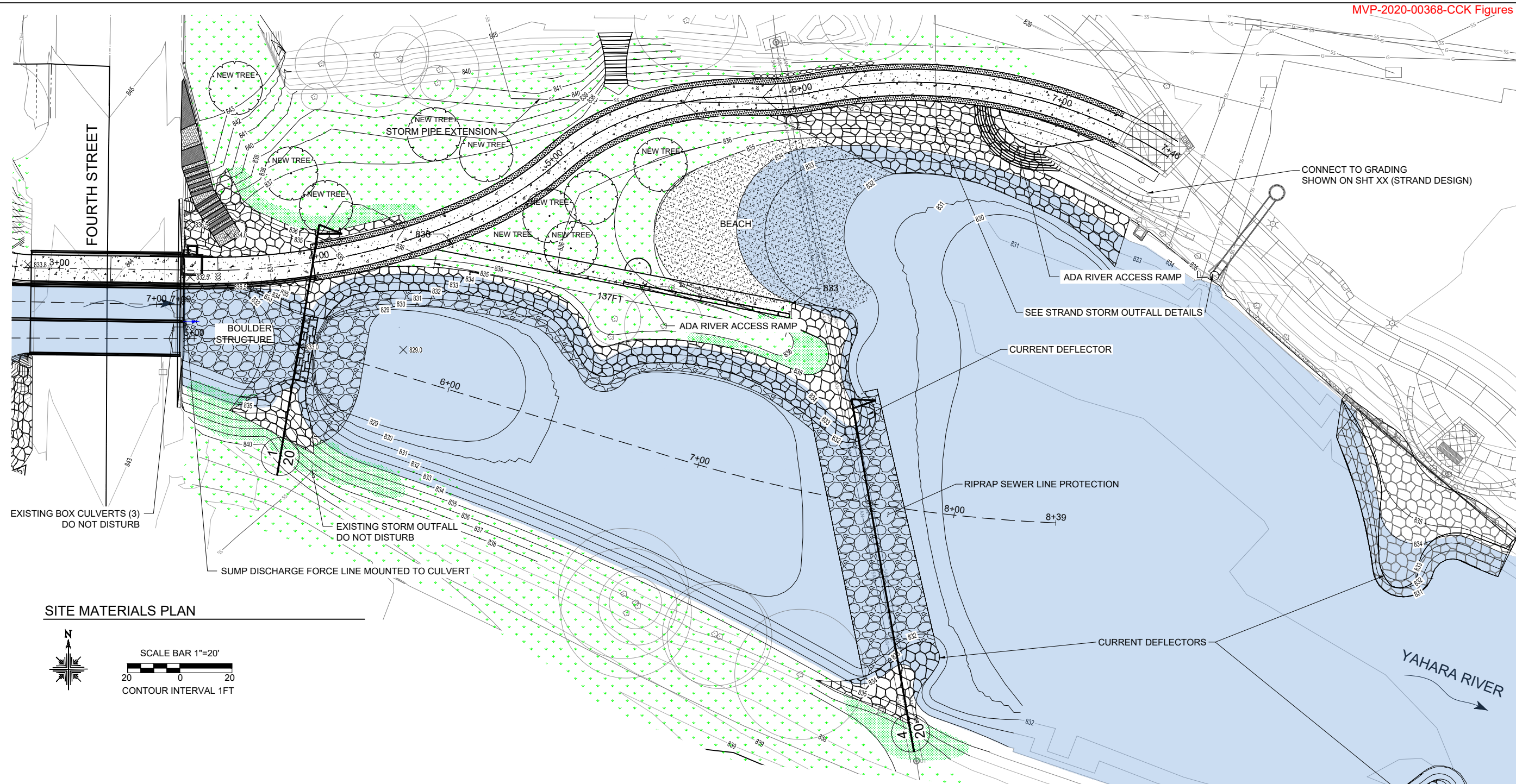
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

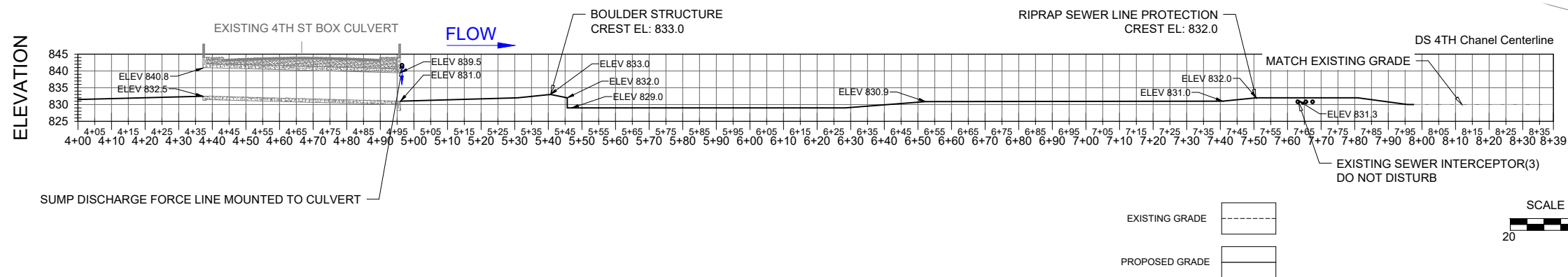
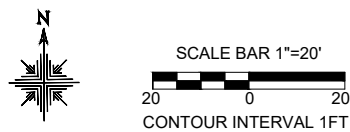
DRAWING NO.

14

SHEET 14 OF 28



SITE MATERIALS PLAN



PROPOSED THALWEG PROFILE





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

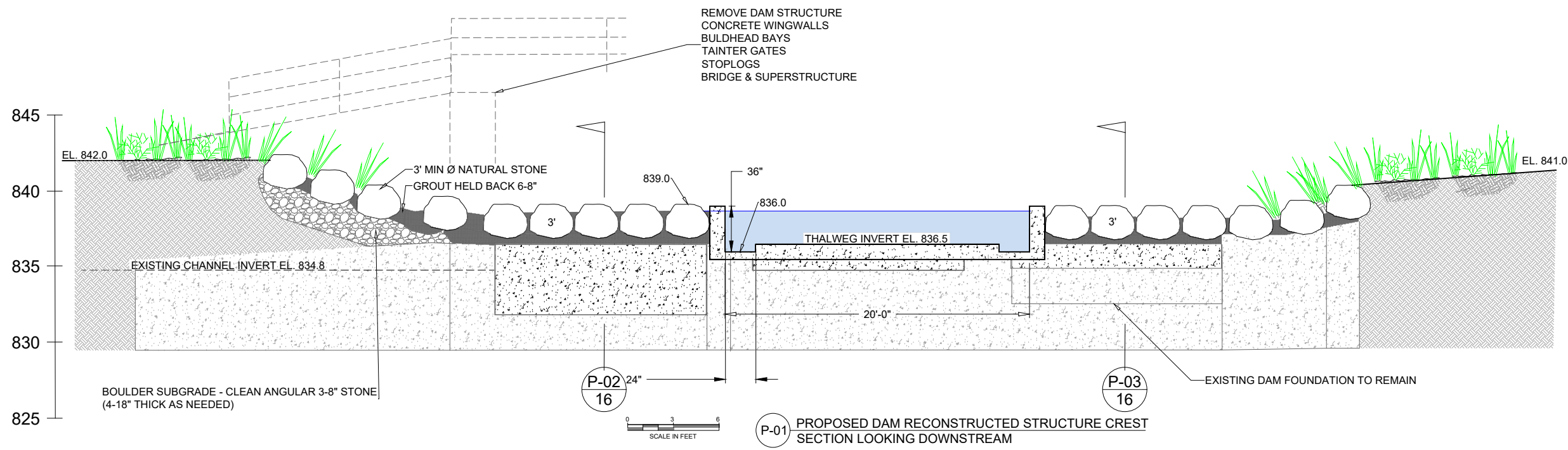
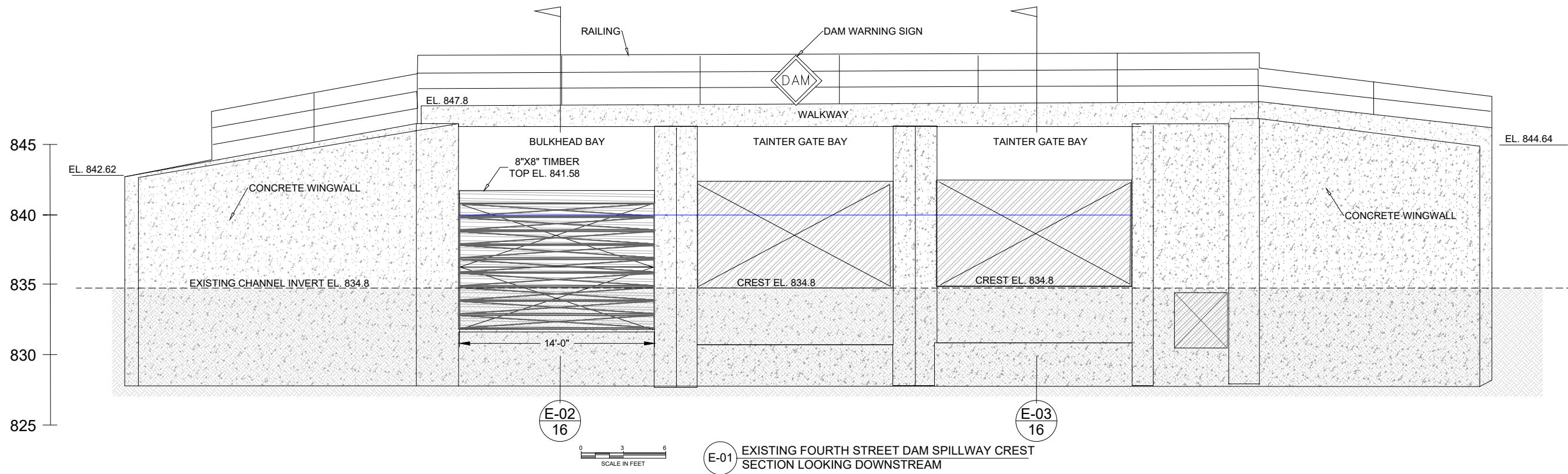
YAHARA RIVER PARK  
YAHARA RIVER STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
DAM RECONSTRUCTION DETAIL

REVISIONS:

NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.  
**15**  
SHEET 15 OF 28







RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
YAHARA RIVER STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
GATE BAY DETAIL

REVISIONS:

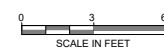
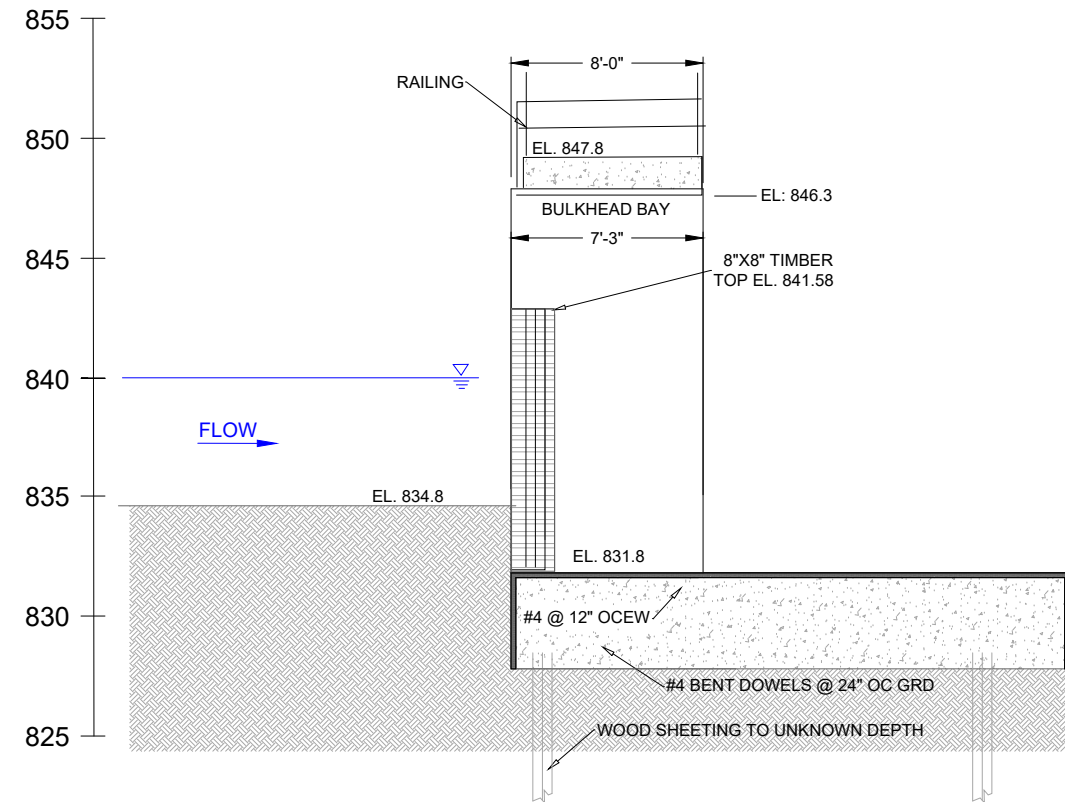
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

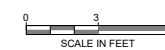
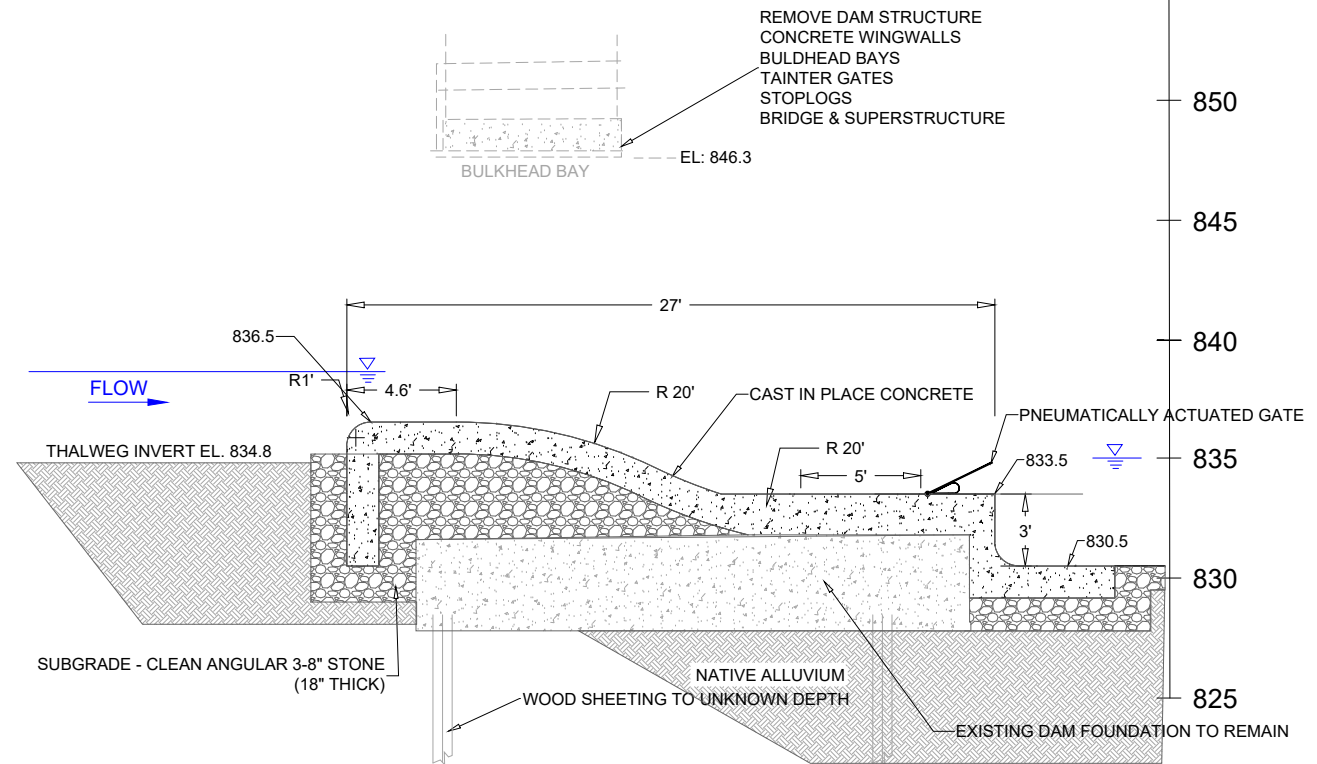
DRAWING NO.

16

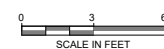
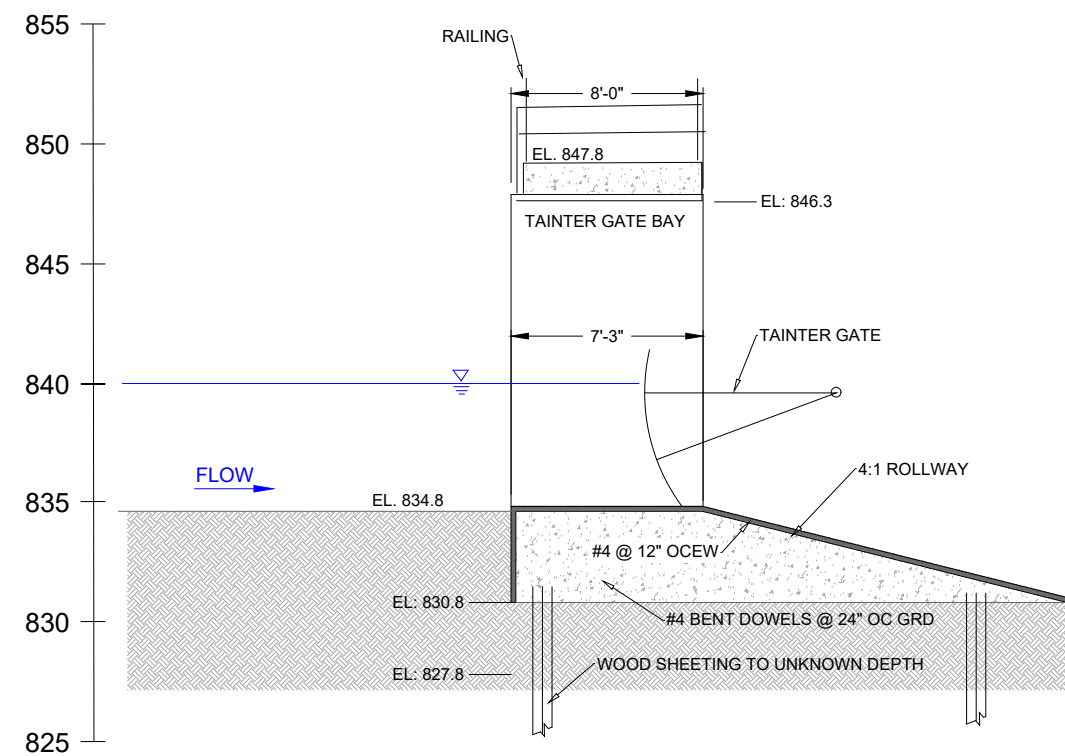
SHEET 16 OF 28



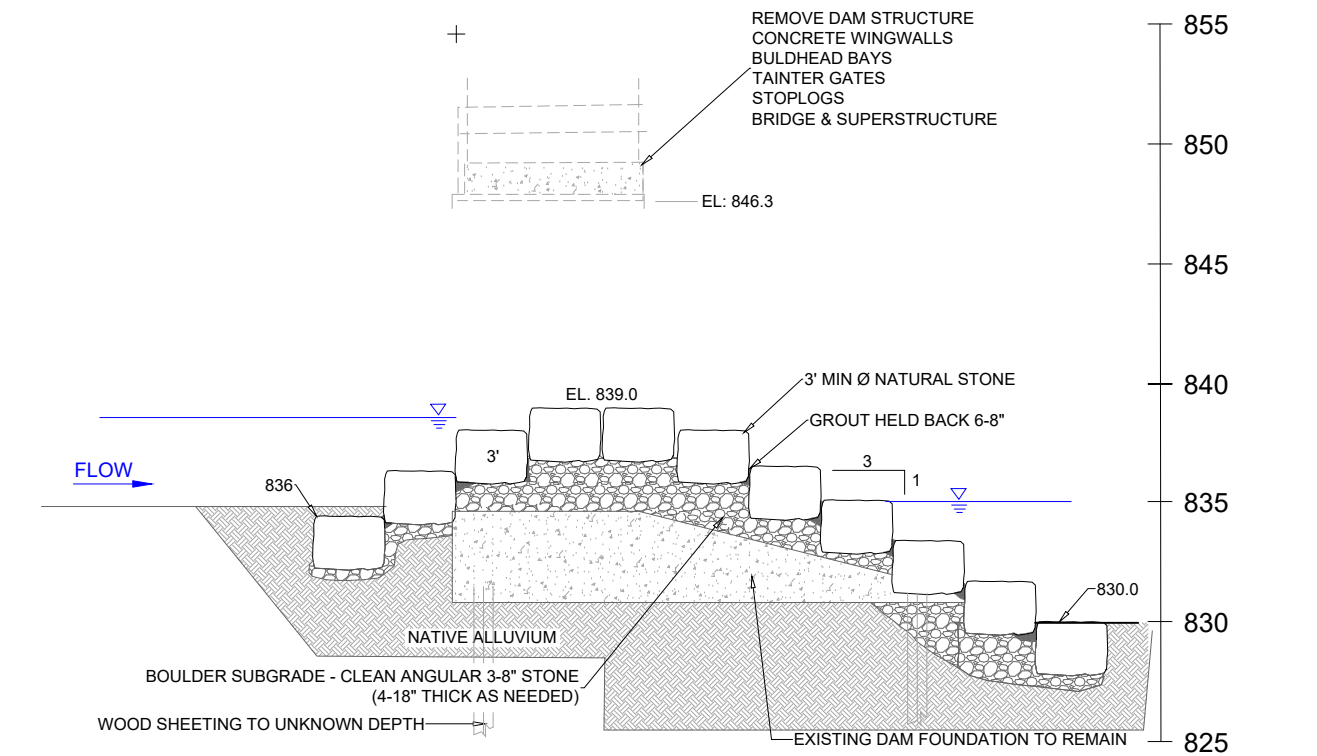
E-02 EXISTING SPILLWAY BULKHEAD BAY PROFILE



P-02 PROPOSED BOULDER STRUCTURE PROFILE



E-03 EXISTING SPILLWAY TAITNER GATE PROFILE



P-03 PROPOSED BOULDER WING STRUCTURE PROFILE



RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

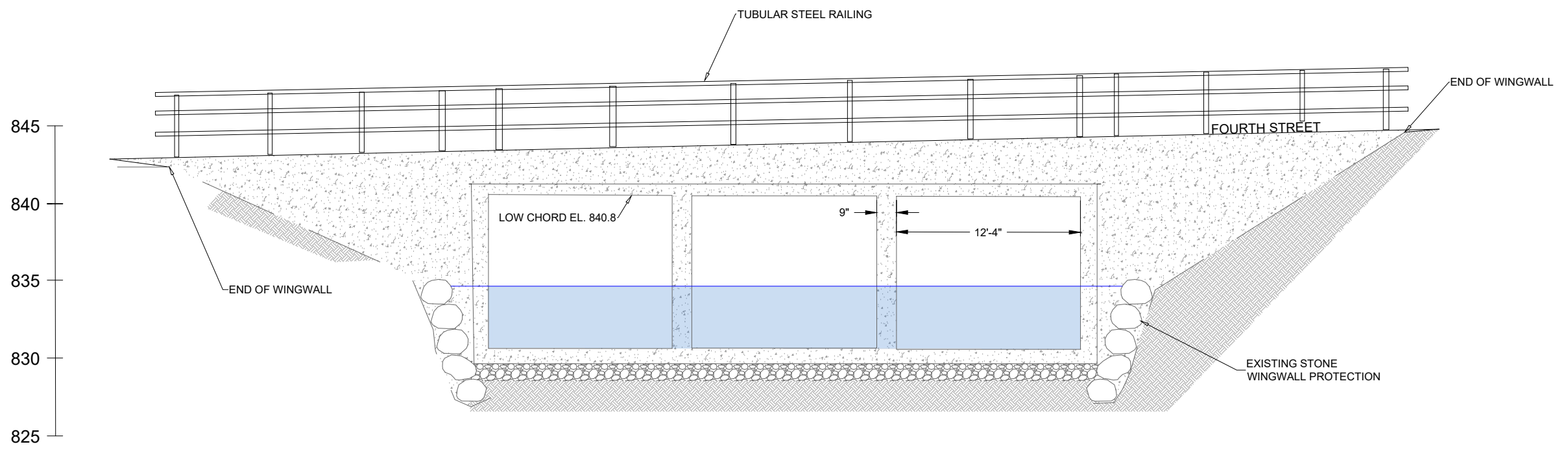
YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
FOURTH ST DETAIL

REVISIONS:

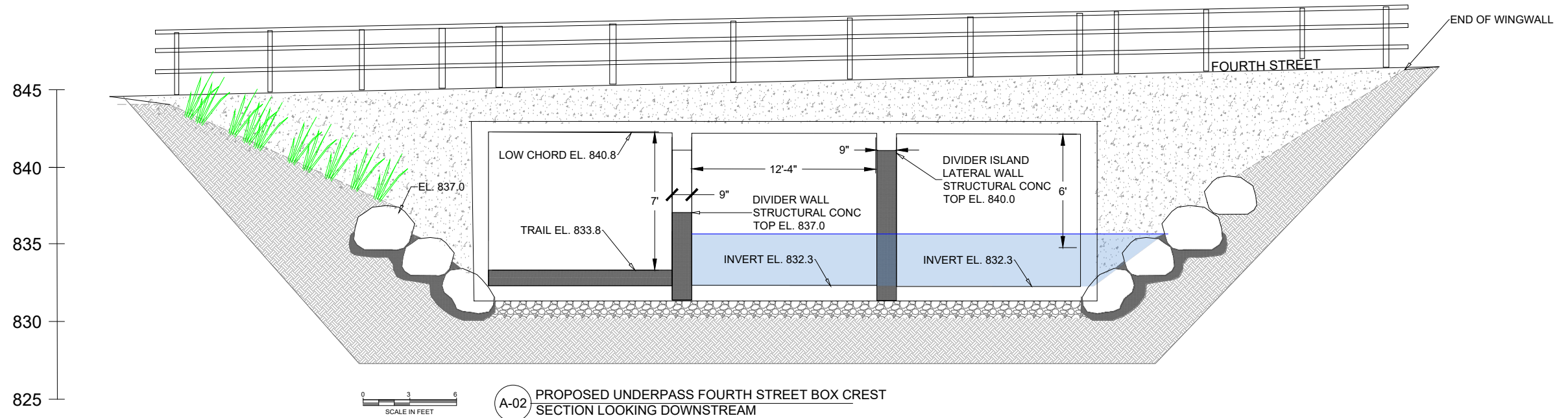
NO.	DATE
---	---

DESIGNED: ML    DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.  
**17**  
SHEET 17 OF 28



**A-01** EXISTING FOURTH STREET 3 BOX CREST SECTION LOOKING DOWNSTREAM



**A-02** PROPOSED UNDERPASS FOURTH STREET BOX CREST SECTION LOOKING DOWNSTREAM



RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
YAHARA RIVER STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
TRAIL UNDERPASS DETAIL

REVISIONS:

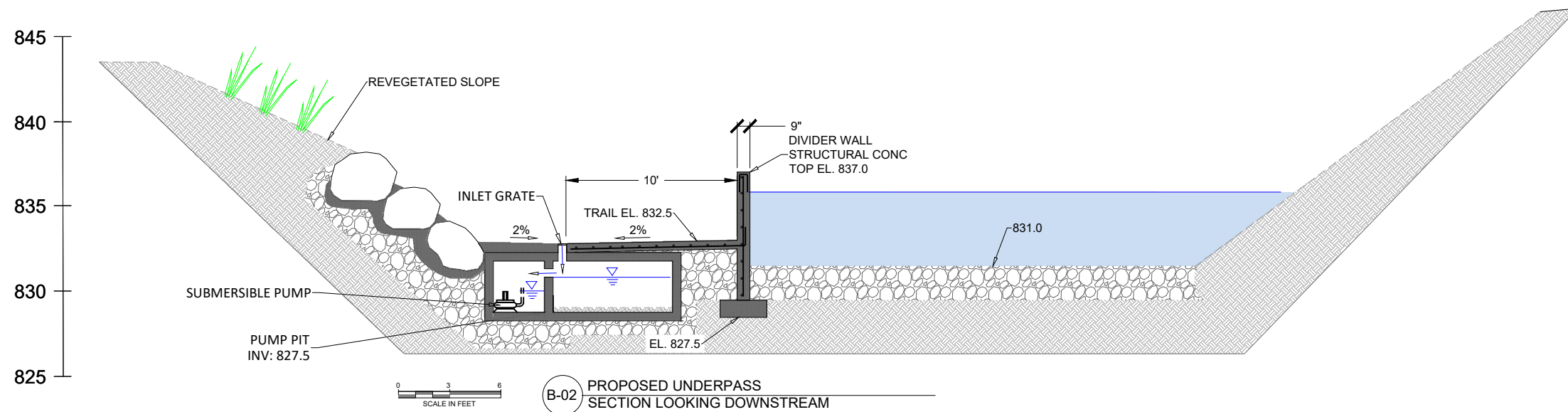
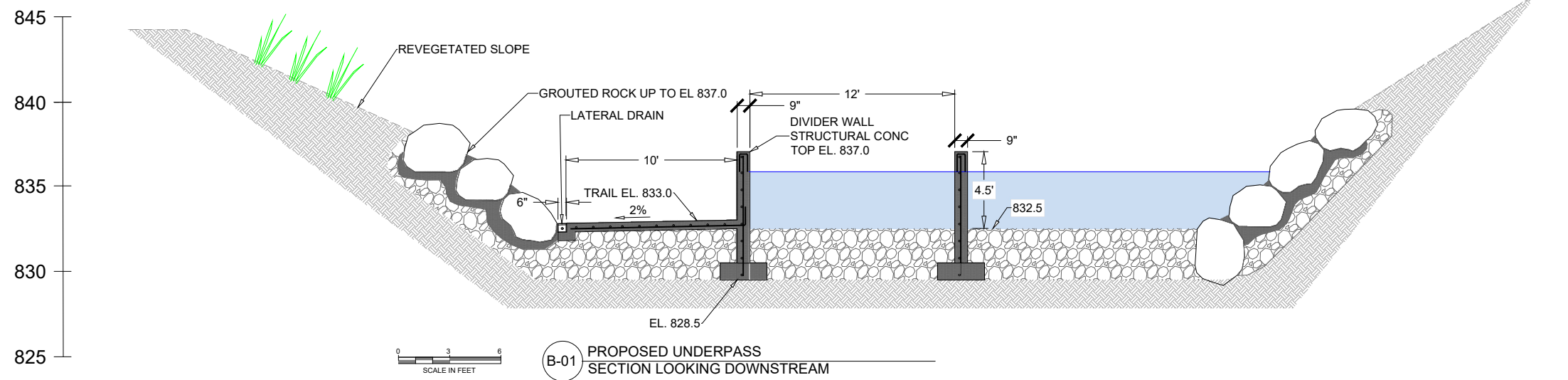
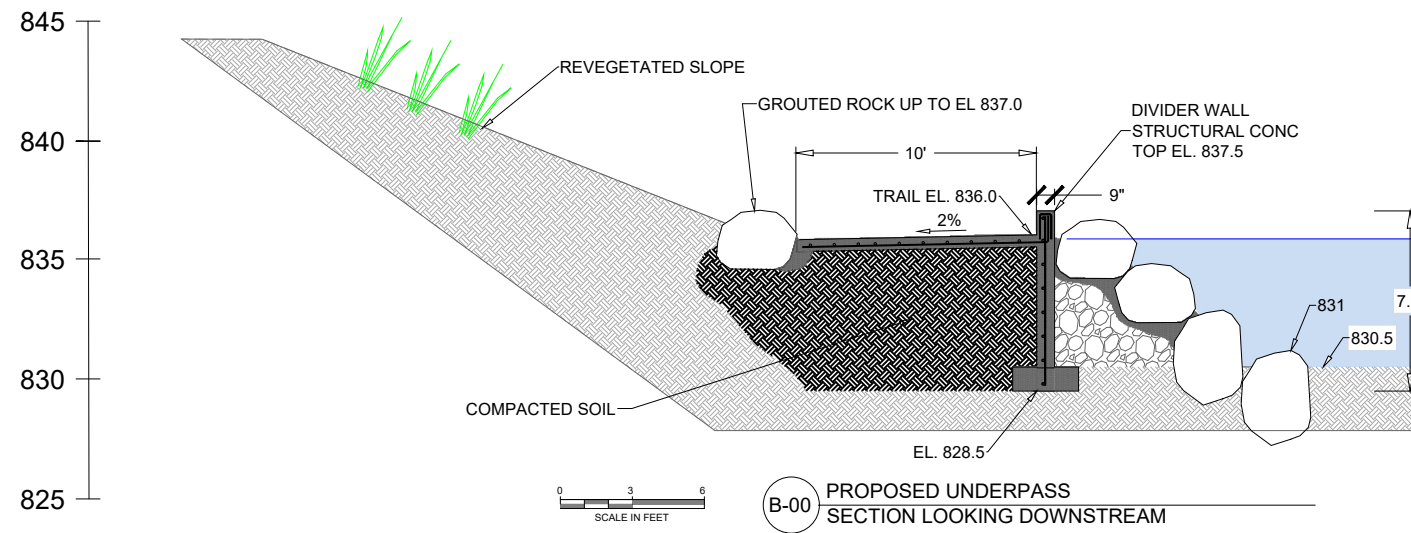
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

**18**

SHEET 18 OF 28



**UNDERPASS DETAIL SECTION VIEWS**  
SCALE: NTS





RECREATION ENGINEERING  
AND PLANNING  
485 APAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
CREST DETAIL

REVISIONS:

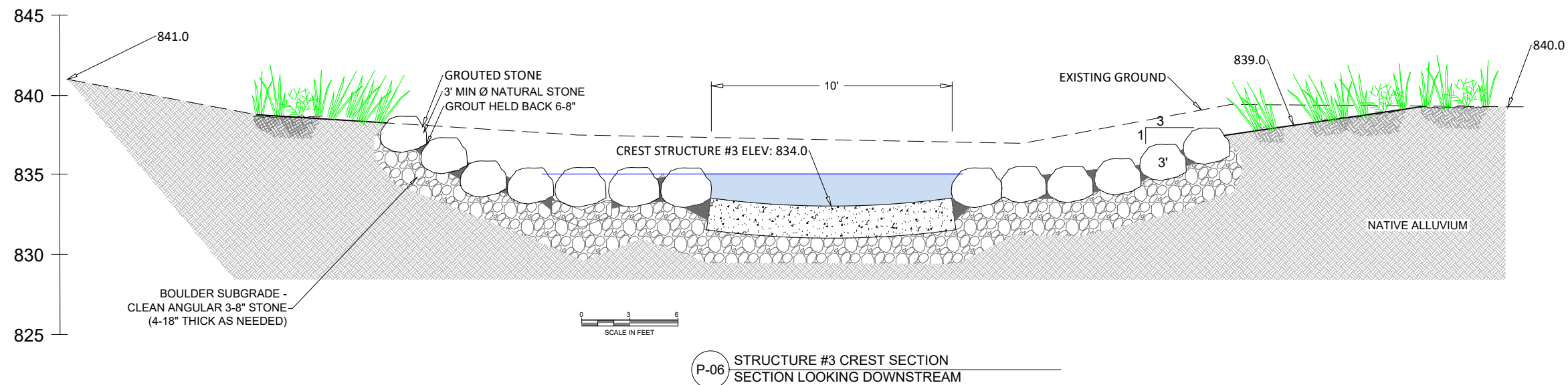
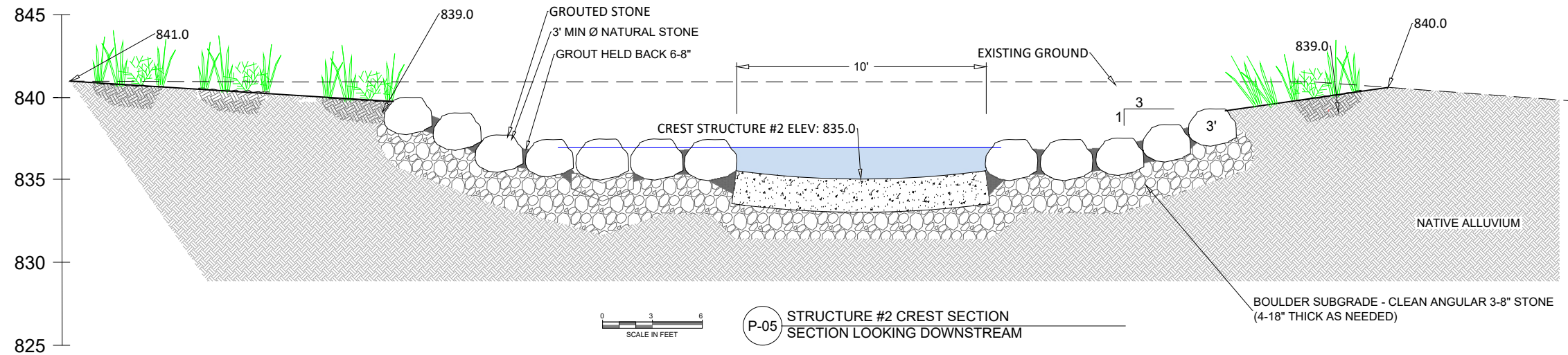
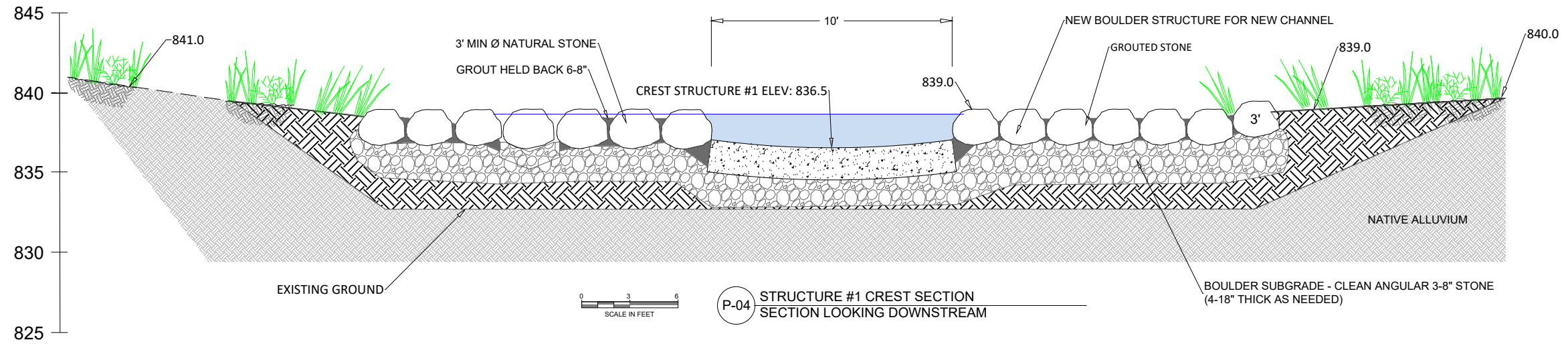
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

19

SHEET 19 OF 28





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
BOULDER STRUCTURE DETAIL

REVISIONS:

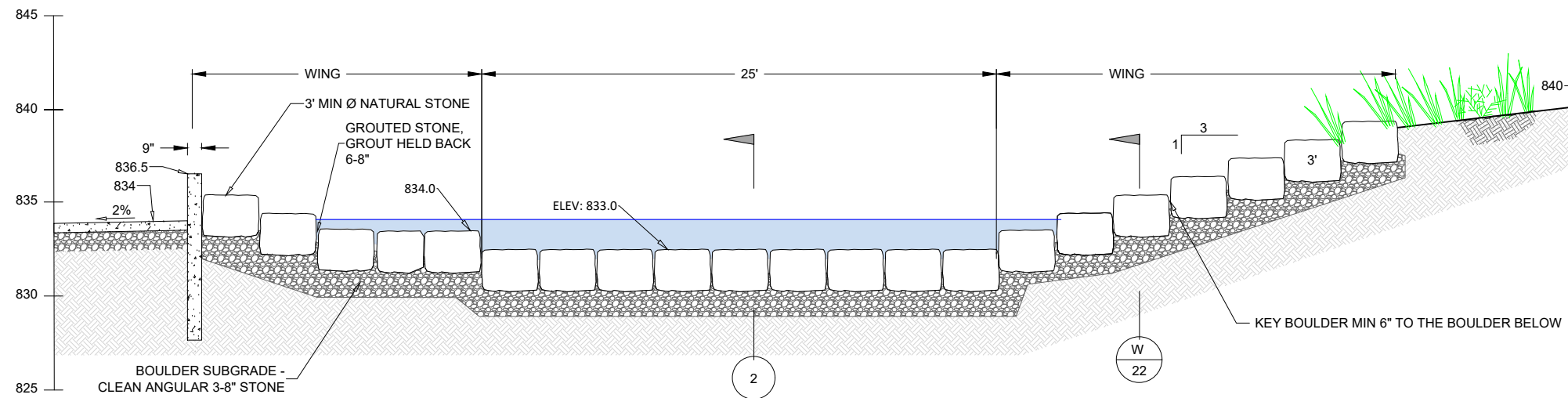
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

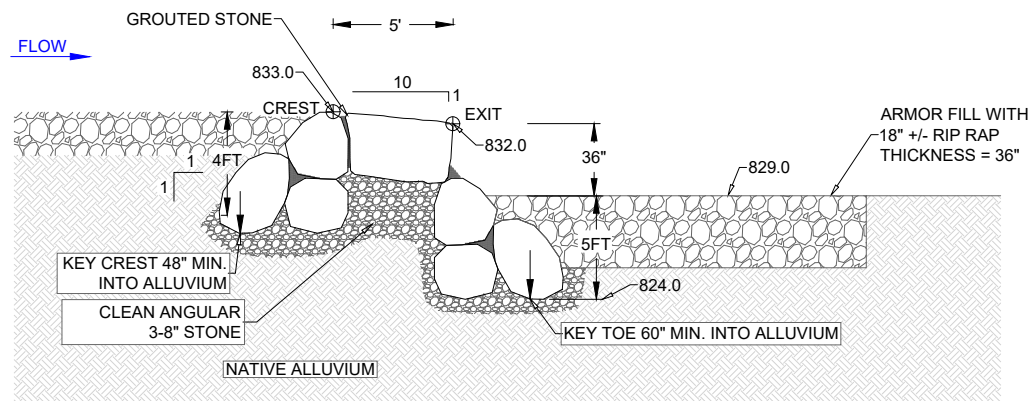
DRAWING NO.

20

SHEET 20 OF 28

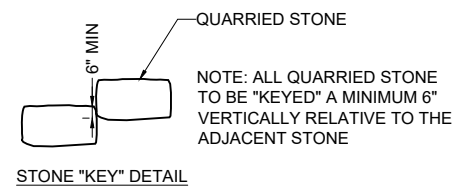


1 BOULDER STRUCTURE CREST SECTION  
SECTION LOOKING DOWNSTREAM



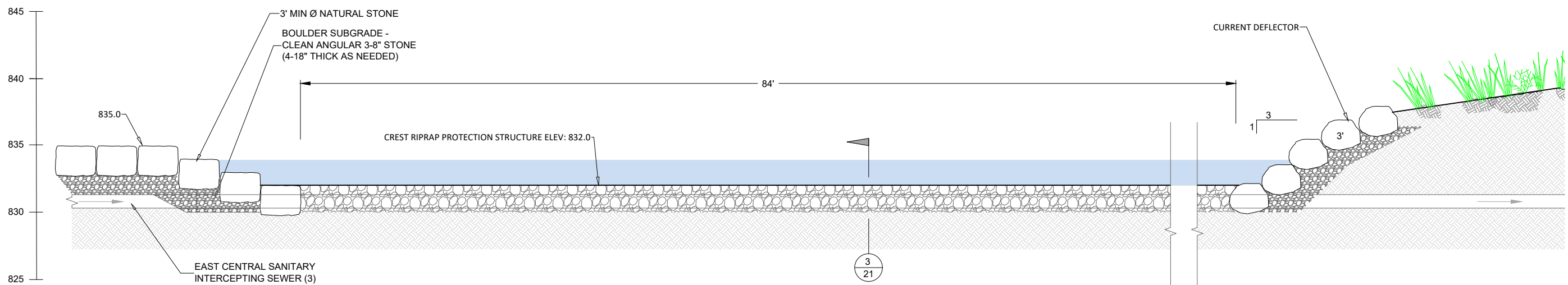
2 BOULDER STRUCTURE PROFILE CENTER LOW-FLOW

NOTES:  
THE CONTRACTOR IS REQUIRED TO FINISH ALL GROUT WITHIN THE INSTREAM STRUCTURE USING THE FOLLOWING TECHNIQUE:  
1) FOLLOWING INITIAL PLACEMENT OF GROUT, A TROWEL WILL BE USED TO REMOVE ALL SPILLED, SPLATTERED, AND DUMPED MATERIAL FROM ROCK FACES AND EXPOSED SURFACES.  
2) ONCE THE MATERIAL HAS BEEN REMOVED BY A TROWEL, ALL SURFACES ARE TO BE TROWEL FINISHED AND SMOOTHED.  
3) FOLLOWING TROWEL WORK, WET BROOMS AND BRUSHES ARE TO BE USED IN COMBINATION WITH BUCKETS OF WATER TO CLEAN ALL EXPOSED SURFACES AND TRANSITIONS FROM ROCK TO GROUT WITH THE INTENTION OF MAKING THE GROUT BLEND WITH THE ENVIRONMENT.



3 RIPRAP SEWER LINE PROTECTION PROFILE CENTERLINE

BOULDER STRUCTURE DETAILS



SEWER LINE RIPRAP PROTECTION DETAILS

4 SEWER INTERCEPTOR RIVER CROSSING ENCASMENT STRUCTURE CREST SECTION  
SECTION LOOKING DOWNSTREAM





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

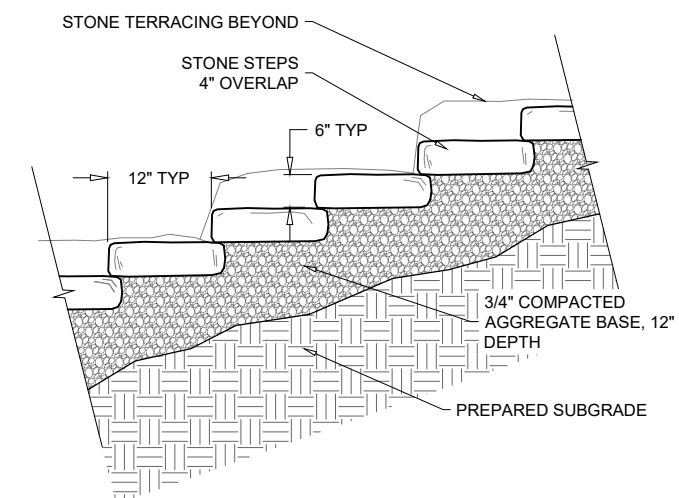
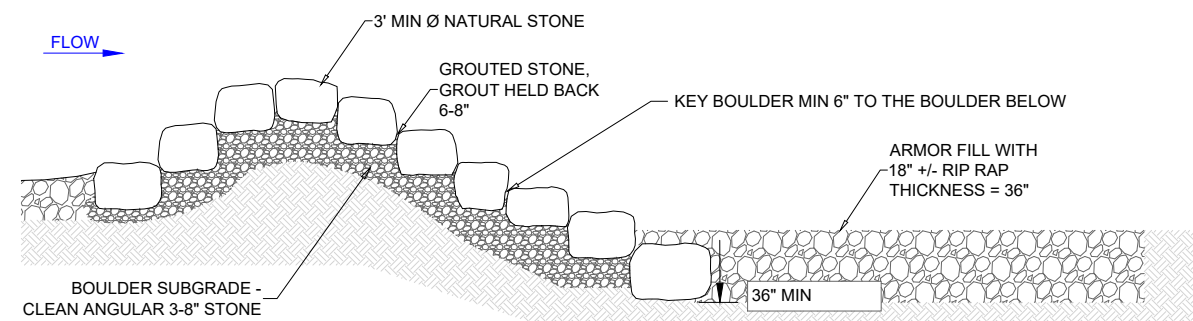
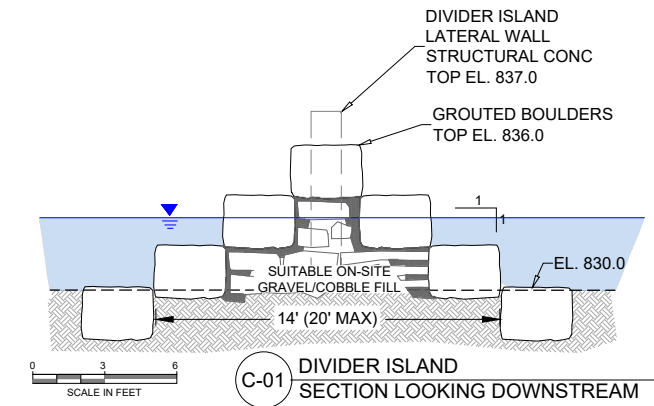
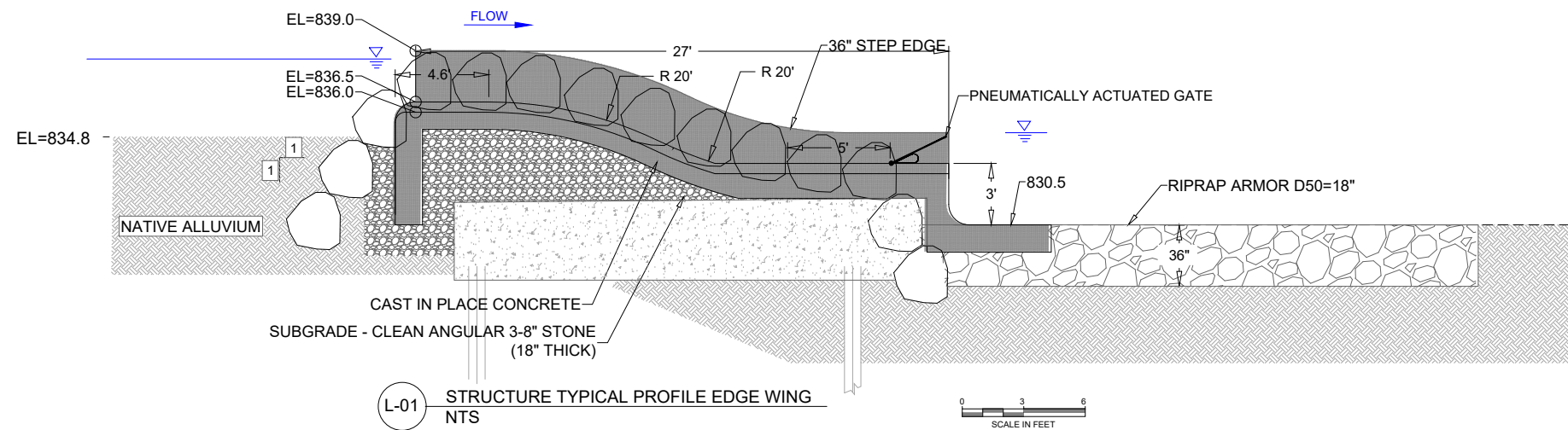
YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
MISC DETAIL

REVISIONS:

NO.	DATE
---	---

DESIGNED: ML    DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.  
**21**  
SHEET 21 OF 28





RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
PRELIMINARY - NOT FOR CONSTRUCTION  
DETAILS

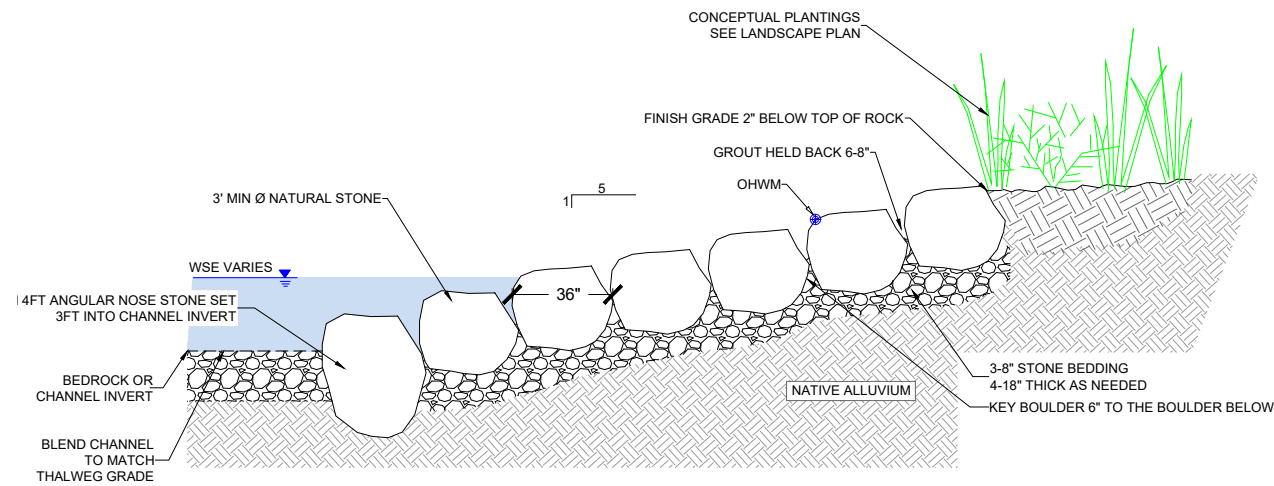
REVISIONS:

NO.	DATE

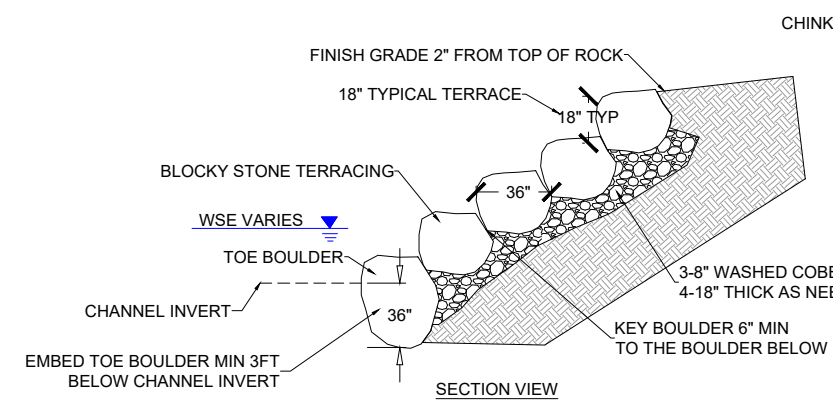
DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

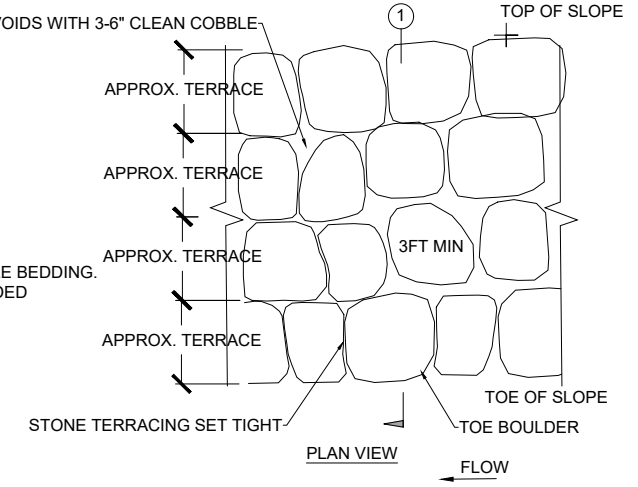
22



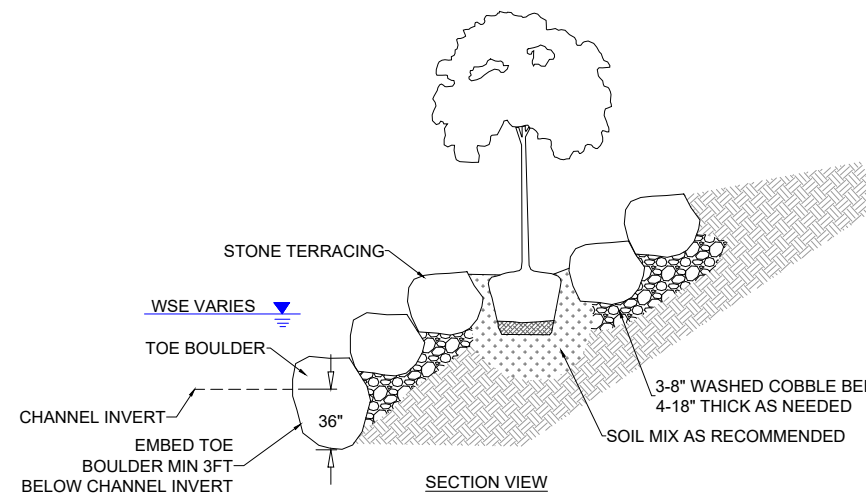
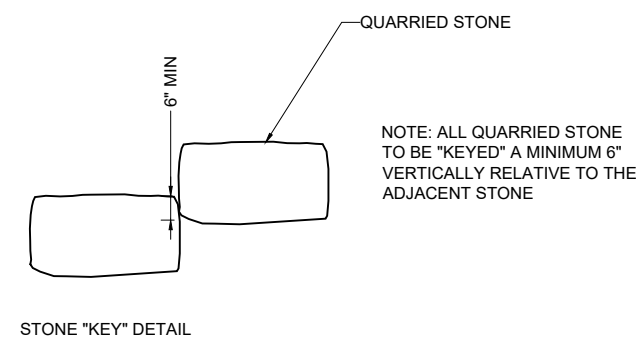
D-02 RIVER RIGHT CURRENT DEFLECTOR SECTION VIEW NTS



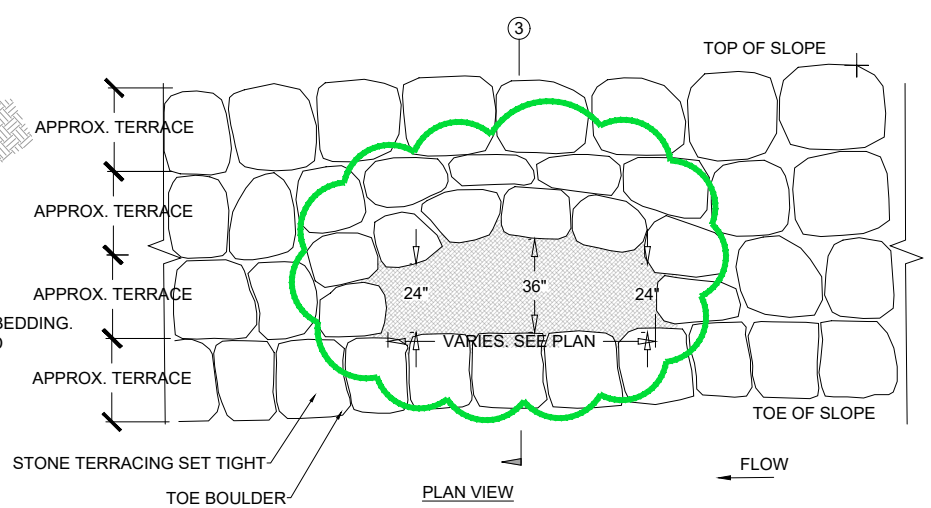
1 TYPICAL STONE TERRACING BANK TREATMENT NTS



2 TYPICAL STONE TERRACING PLAN NTS



3 TYPICAL STONE TERRACING WITH TREE PLANTING POCKET NTS



4 TYPICAL STONE TERRACING PLAN NTS

STONE TERRACING & CURRENT DEFLECTOR DETAILS



RECREATION ENGINEERING  
AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
PLANTING BANK DETAILS

REVISIONS:

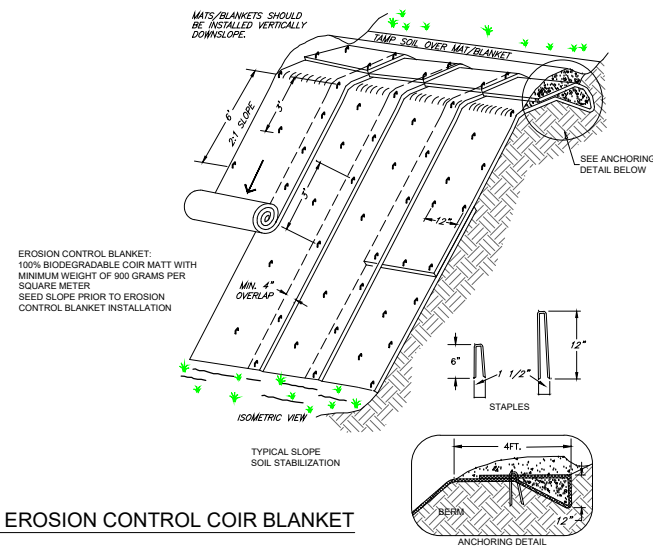
NO.	DATE

DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

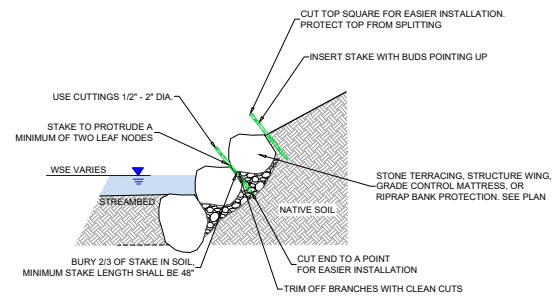
DRAWING NO.

23

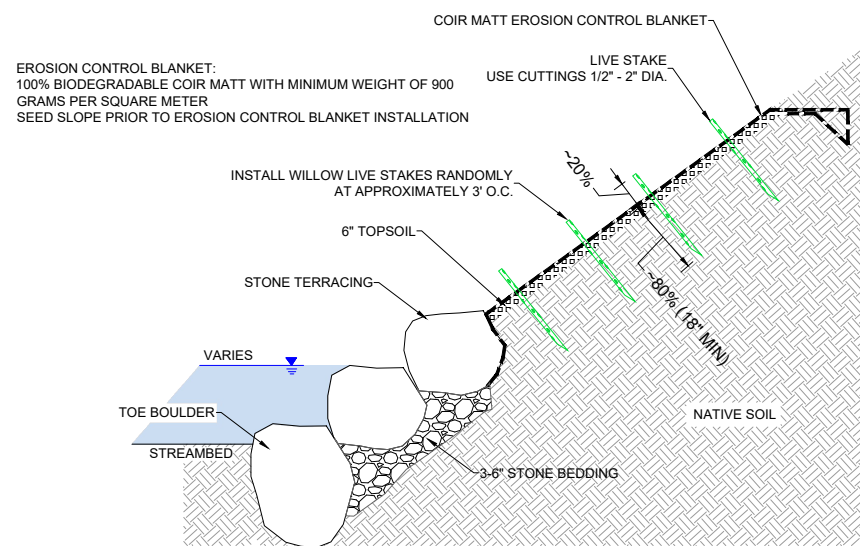
SHEET 23 OF 28



TYPICAL PLANTED EROSION CONTROL COIR BLANKET  
NTS

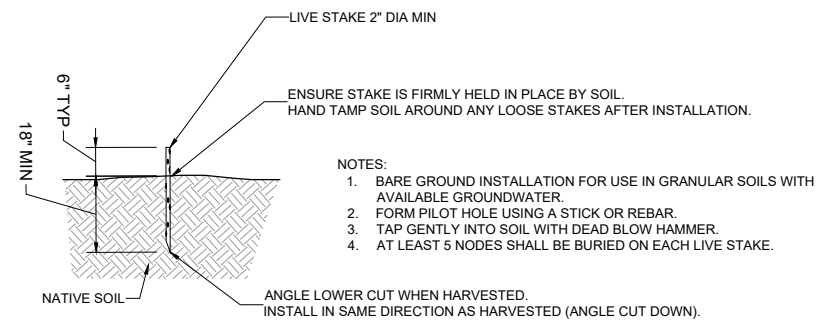


TYPICAL WILLOW LIVE STAKE PLANTED TOE PROTECTION  
NTS



W TYPICAL WILLOW STAKE BANK TREATMENT WITH STONE TOE SECTION VIEW  
NTS

- NOTE:
1. FORM PILOT HOLE USING A STICK OR REBAR.
  2. DO NOT HAMMER LIVE STAKE DIRECTLY INTO GROUND.
  3. AT LEAST 5 NODES SHALL BE BURIED ON EACH LIVE STAKE.



TYPICAL WILLOW LIVE STAKE  
NTS





RECREATION ENGINEERING  
AND PLANNING  
485 APAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53889

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
TRAIL DETAILS

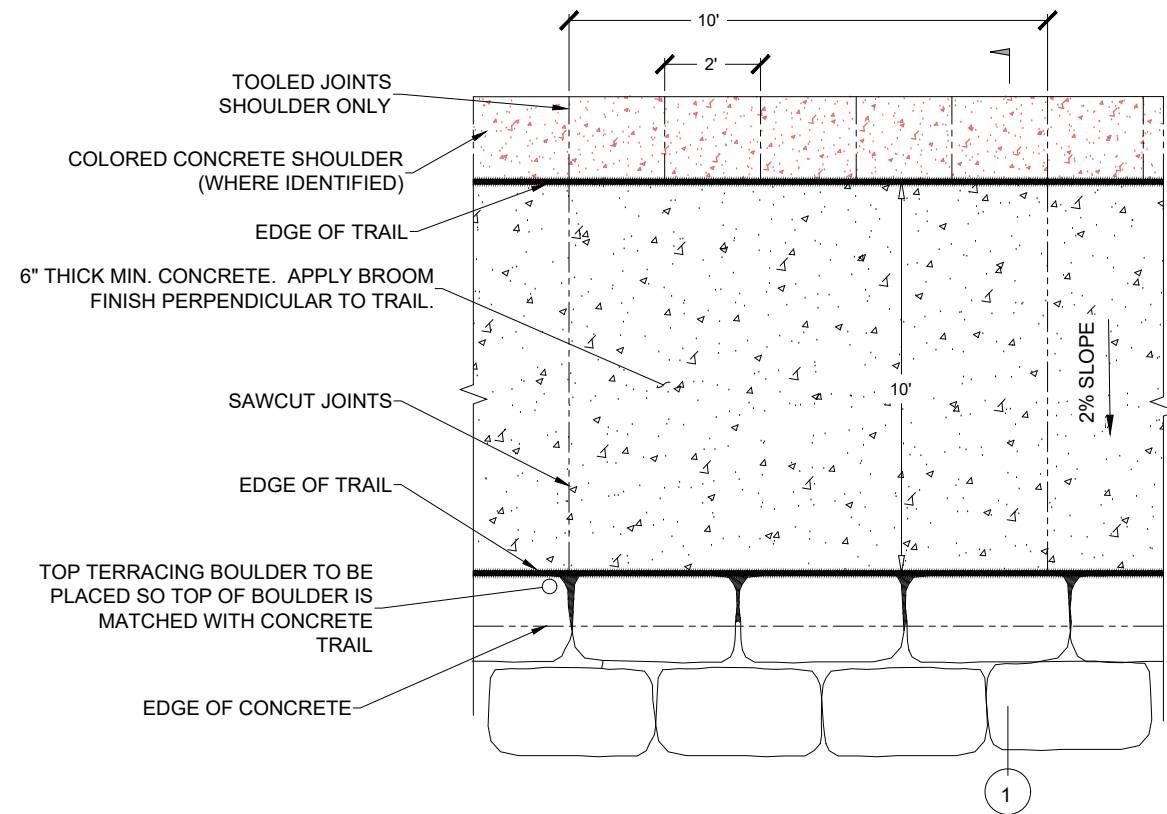
REVISIONS:

NO.	DATE

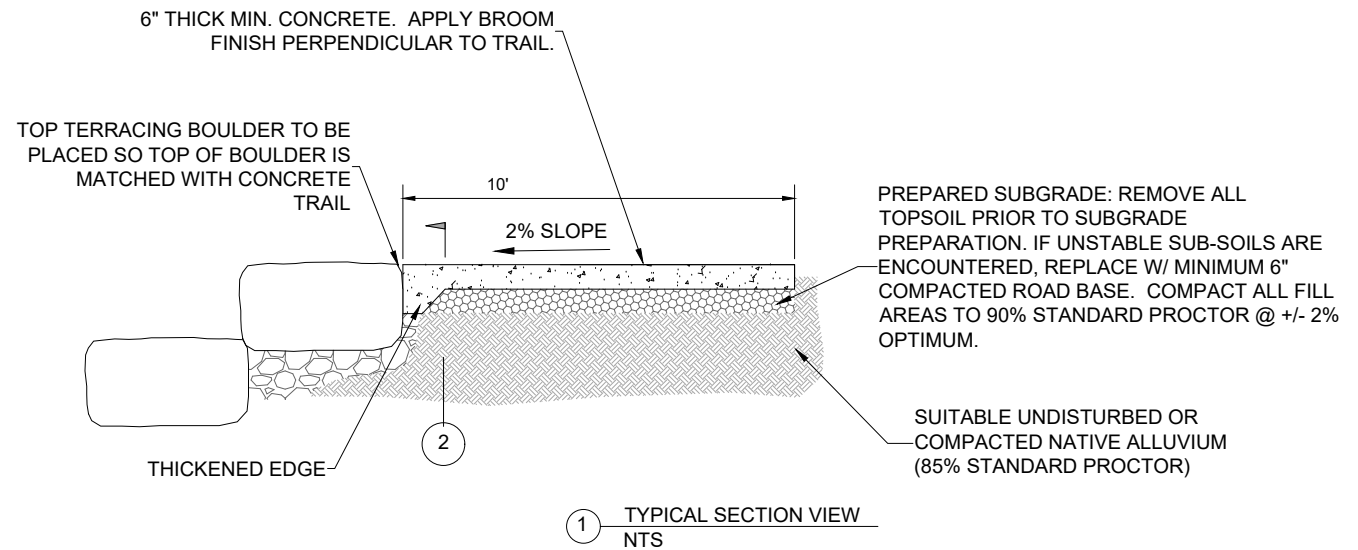
DESIGNED: ML DRAFTED: RG  
CHECKED: GL  
PLOT DATE: 3/3/2022

DRAWING NO.

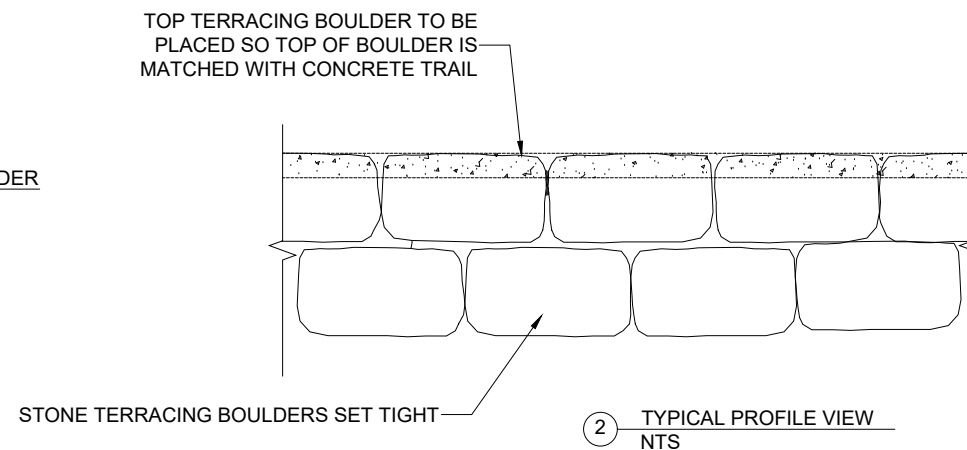
**24**



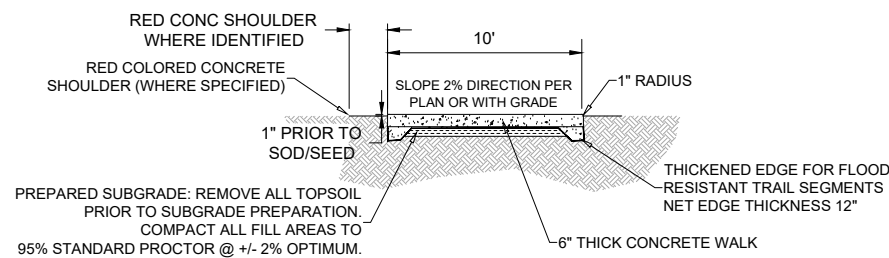
T-01 TYPICAL CONCRETE TRAIL WITH STONE SHOULDER  
NTS



1 TYPICAL SECTION VIEW  
NTS

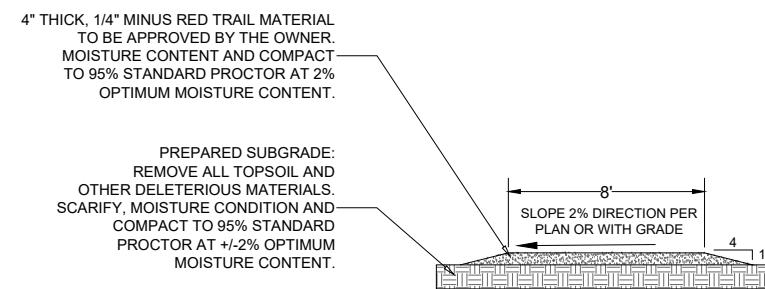


2 TYPICAL PROFILE VIEW  
NTS



T-02 TYPICAL CONCRETE TRAIL SECTION  
NTS

- NOTES:
1. SAW CUT JOINTS (WITHIN 96 HOURS)
  2. EXPANSION JOINTS WHERE SIDEWALK RUN EXCEEDS 120'
  3. TOOLED JOINTS ONLY ON RED COLORED CONCRETE SHOULDERS (WHERE SPECIFIED)



T-03 TYPICAL GRAVEL FINES TRAIL SECTION  
NTS



RECREATION ENGINEERING AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

DRAFT

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST  
STOUGHTON, WI 53589

YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
PRELIMINARY - NOT FOR CONSTRUCTION  
DEWATERING TYPICAL

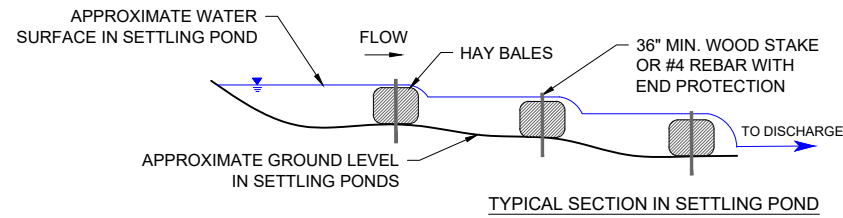
REVISIONS:

NO.	DATE

DESIGNED: \_\_\_\_\_ DRAFTED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
PLOT DATE: 3/3/2022

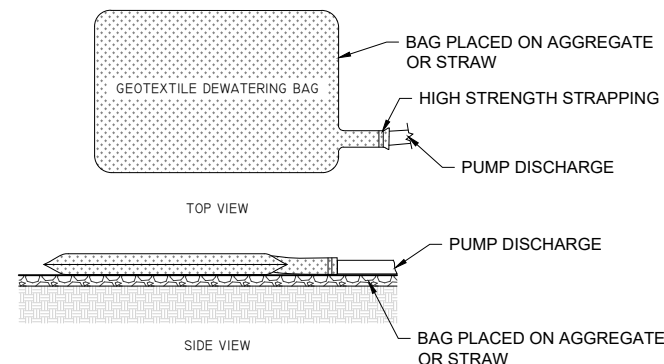
DRAWING NO.  
**25**  
SHEET 25 OF 28

**CARE OF PUMPED WATER OPTIONS**



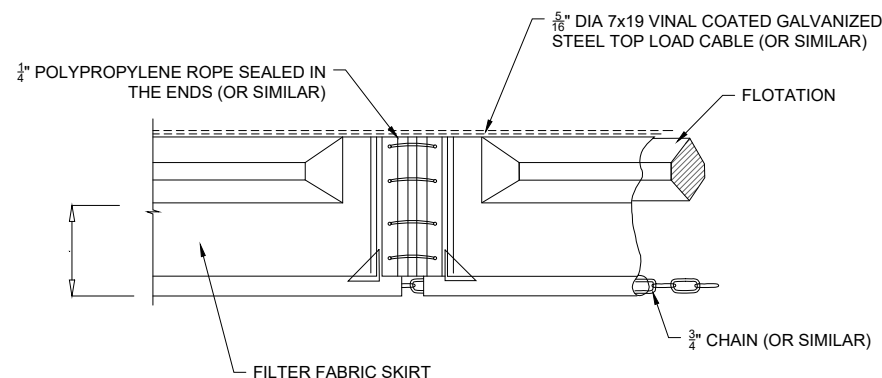
NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

**SETTLING POND OPTION**



NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT AND BAG SIZING TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

**GEOTEXTILE BAG OPTION**

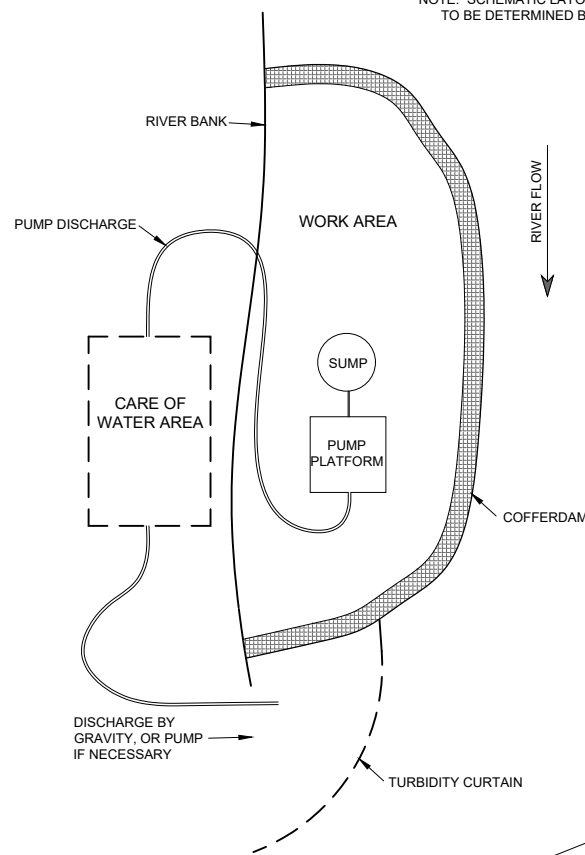


NOTE: SCHEMATIC DETAIL TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL DETAIL AND SIZING TO BE DETERMINED BY CONTRACTOR, PER PERMIT CONDITIONS.

**TURBIDITY CURTAIN OPTION**

**TYPICAL LAYOUT DEWATERING AREA**

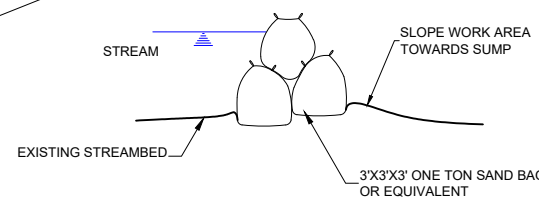
NOTE: SCHEMATIC LAYOUT TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL LAYOUT TO BE DETERMINED BY QUALIFIED CONTRACTOR, PER PERMIT CONDITIONS.



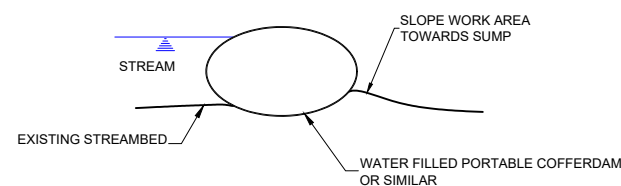
**DEWATERING NOTES:**

- SUMPS CAN BE MADE FROM DIGGING A HOLE AND INSERTING A PERFORATED PIPE AND BACKFILLING WITH CLEAN DRAIN ROCK OR OTHER APPROVED METHOD.
- CARE OF PUMPED WATER SHALL BE BASED UPON SITE SPECIFICS AND QUALITY OF WATER. METHODS OF TURBIDITY CONTROL SHALL BE DETERMINED BY THE CONTRACTOR. SCHEMATIC ALTERNATIVES ARE IDENTIFIED BELOW. THE CONTRACTOR SHALL REDUCE THE TURBIDITY OF DISCHARGED WATER TO THE MAXIMUM EXTENT PRACTICABLE.
- UPON COMPLETION, GEOTEXTILE BAGS, VISQUENE, SETTLED FINES, AND ANY OTHER CARE OF WATER MATERIALS SHALL BE REMOVED AND DISPOSED OF OFFSITE BY THE CONTRACTOR.
- PUMP STATION SHALL BE ELEVATED. FUEL CONTAINMENT BMP'S SHALL BE ONSITE AT ALL TIMES.
- PUMP REMAINING WATER IN CONSTRUCTION AREA AS NECESSARY TO MANAGE GROUNDWATER AND LEAKAGE. ALL DISCHARGED WATER MUST BE ROUTED TO THE CARE OF WATER AREA AS NECESSARY PER PERMIT CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR OWN SECURITY DURING CONSTRUCTION. ANY VANDALISM WILL BE CORRECTED AT CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE OF ALL WATER DURING CONSTRUCTION INCLUDING MAINTENANCE OF ALL DITCHES, COFFERDAMS, LEVEES, DIVERSIONS AND PUMPS TO KEEP THE WORK AREA FREE FROM WATER.
- DEWATERING PLAN DETAILS SHOWN HERE ARE ILLUSTRATIVE. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS TO COMPLETE AND SUBMIT A DEWATERING PLAN APPLICABLE TO THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND DESIGN OF COFFERDAM. CONTRACTOR SHALL SUBMIT A PLAN FOR COFFERDAM INSTALLATION, RIVER DIVERSION AND EROSION CONTROL INCLUDING LOCATION, SIZE, HEIGHT, SEQUENCING AND TIMING OF EACH COMPONENT. COFFERDAMS OR FILLS FOR ACCESS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS AND CARE OF PUMPED WATER SHALL BE PLACED AND REMOVED IN A MANNER THAT PREVENTS EROSION OR RELEASE OF SEDIMENT.
- ALL COFFER DAM PLANS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS AND CARE OF PUMPED WATER SHALL BE PROVIDED DIRECTLY TO REP AND WILL BE REVIEWED BY THE ENGINEER AND APPROPRIATE PERMITTING AGENCIES.
- ALTERNATE COFFER DAM METHODS PRESENTED TO DESCRIBE FUNCTIONALITY ONLY. ACTUAL METHOD TO BE DETERMINED BY QUALIFIED CONTRACTOR, PER PERMIT CONDITIONS, IN ORDER TO ACHIEVE DRY WORK AREA.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DEWATERING AND COFFERDAMS DURING CONSTRUCTION. REPAIRS AND REPLACEMENTS DUE TO NATURAL CAUSES ARE AT THE SOLE EXPENSE OF THE CONTRACTOR.
- AFTER COMPLETION OF CONSTRUCTION, COFFERDAMS AND PIPE EXTENSIONS AND MATTING AT END OF BYPASS PIPE EXTENSIONS MUST BE COMPLETELY REMOVED AND RIVER BANK AREAS STABILIZED AND RESTORED.

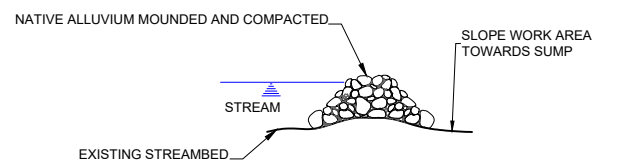
**COFFERDAM OPTIONS**



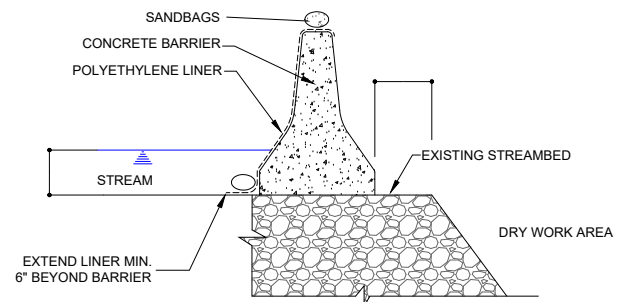
**SUPERSACK OPTION**



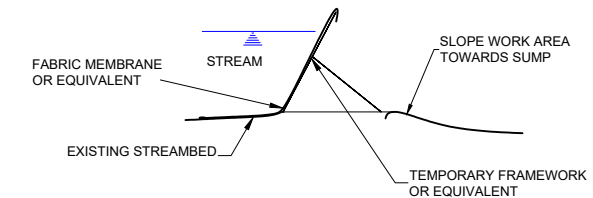
**WATER FILLED OPTION**



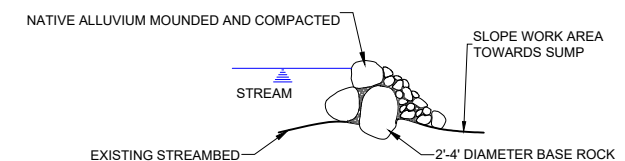
**TYPICAL COFFER DAM CROSS SECTION**



**CONCRETE BARRIER OPTION**



**"PORTADAM" OPTION**



**TYPICAL COFFER DAM CROSS SECTION**



RECREATION ENGINEERING AND PLANNING  
485 ARAPAHOE AVE.  
BOULDER, CO 80302  
WWW.BOATERPARKS.COM

**DRAFT**

PROJECT OWNER:  
CITY OF STOUGHTON  
381 E. MAIN ST.  
STOUGHTON, WI 53589

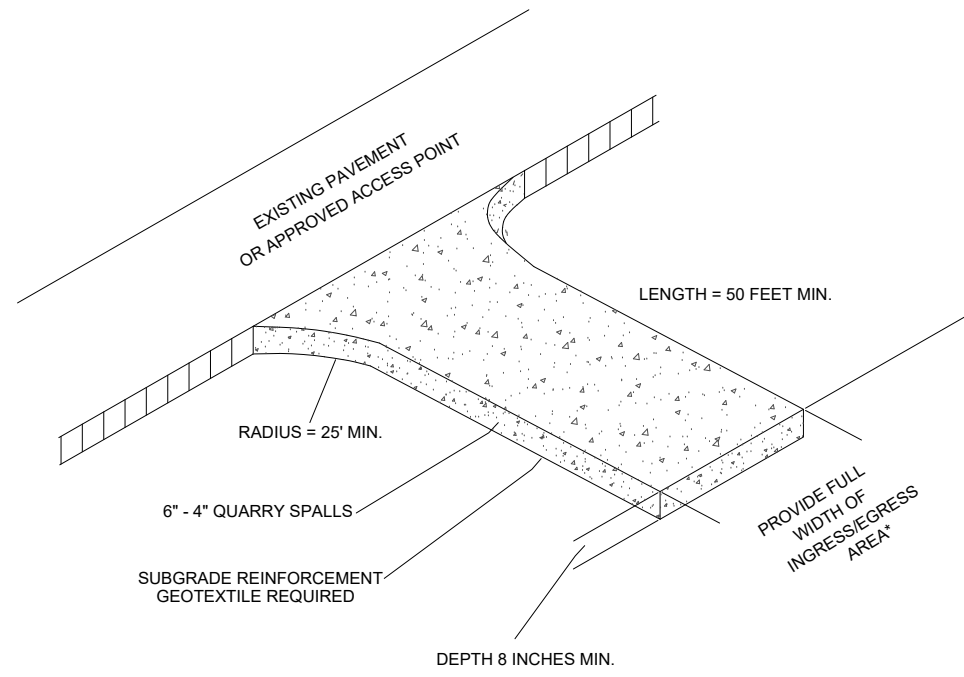
YAHARA RIVER PARK  
STOUGHTON, WISCONSIN  
YAHARA RIVER  
**PRELIMINARY - NOT FOR CONSTRUCTION**  
TYPICAL BMPS

REVISIONS:

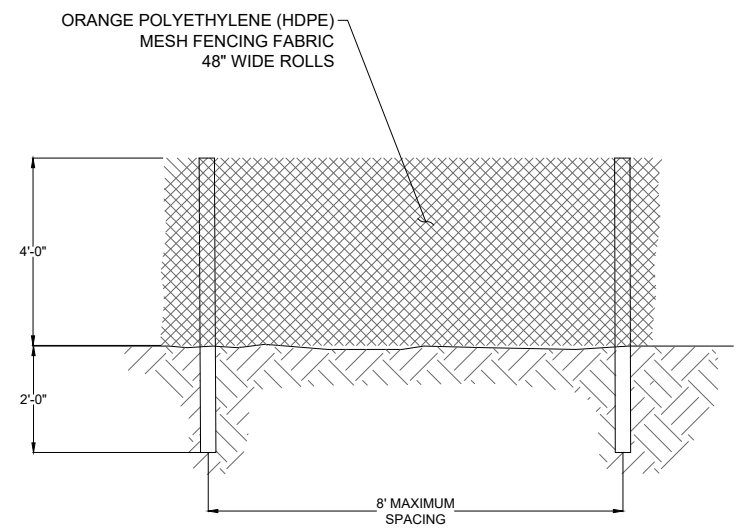
NO.	DATE

DESIGNED:      DRAFTED:  
CHECKED:      PLOT DATE: 3/3/2022

DRAWING NO.  
**26**  
SHEET 26 OF 28

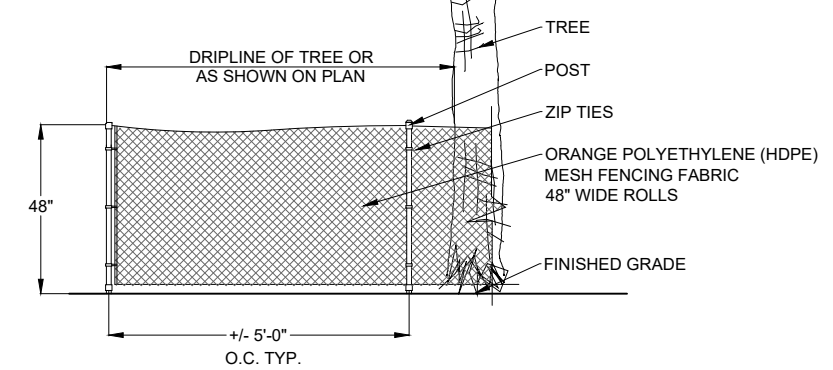
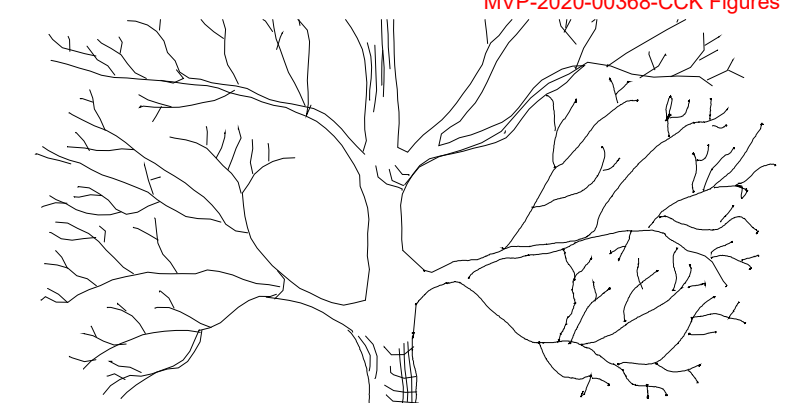


**TYPICAL CONSTRUCTION ENTRANCE/EXIT:**  
NTS



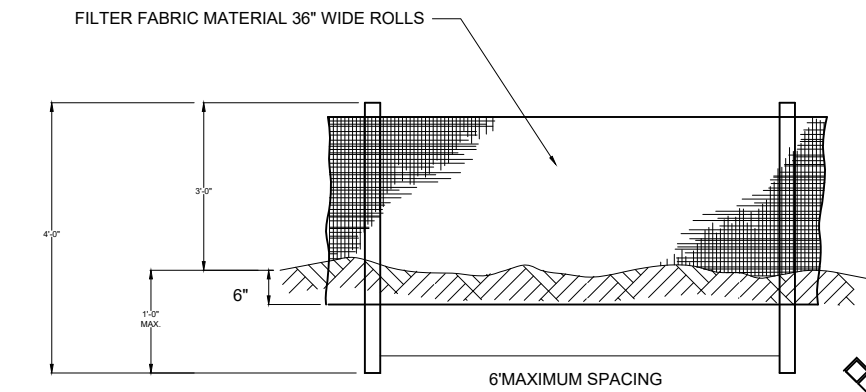
- NOTES:
- 2"x 2"x 6' STEEL FENCE POSTS. INSTALL AROUND TREE DRIP LINE WHERE APPLICABLE.
  - FASTEN FABRIC TO FENCE PER MANUFACTURERS RECOMMENDATION.
  - INSURE ALL POST ARE SET FIRM AND STABLE INTO GROUND MIN. 2'-0" DEPTH.

**TYPICAL CONSTRUCTION FENCING:**  
NTS

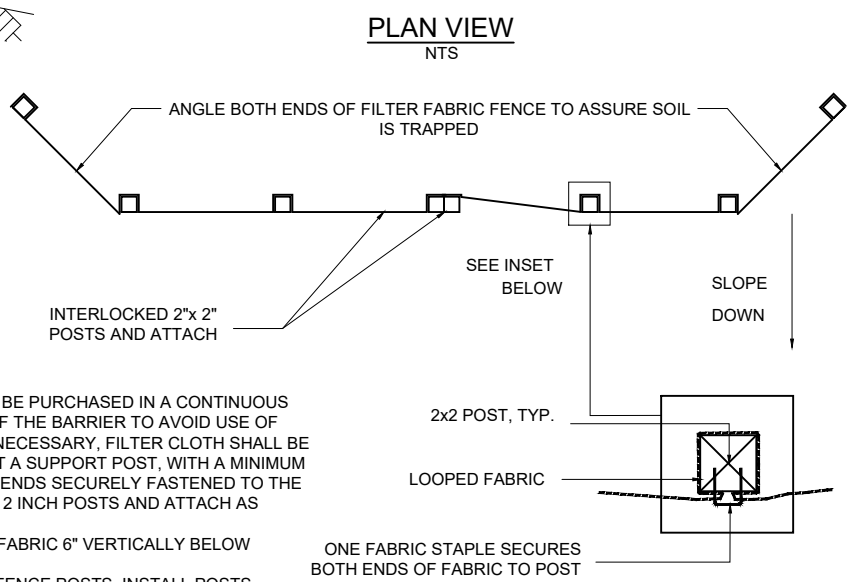


- NOTES:
- 2"x 2"x 6' STEEL FENCE POSTS. INSTALL AROUND TREE DRIP LINE WHERE APPLICABLE.
  - FASTEN FABRIC TO FENCE PER MANUFACTURERS RECOMMENDATION.
  - INSURE ALL POST ARE SET FIRM AND STABLE INTO GROUND MIN. 2'-0" DEPTH.

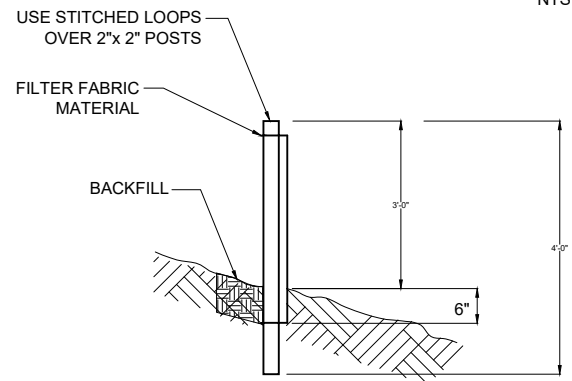
**TYPICAL TREE PROTECTION FENCING:**  
NTS



**ELEVATION**  
NTS



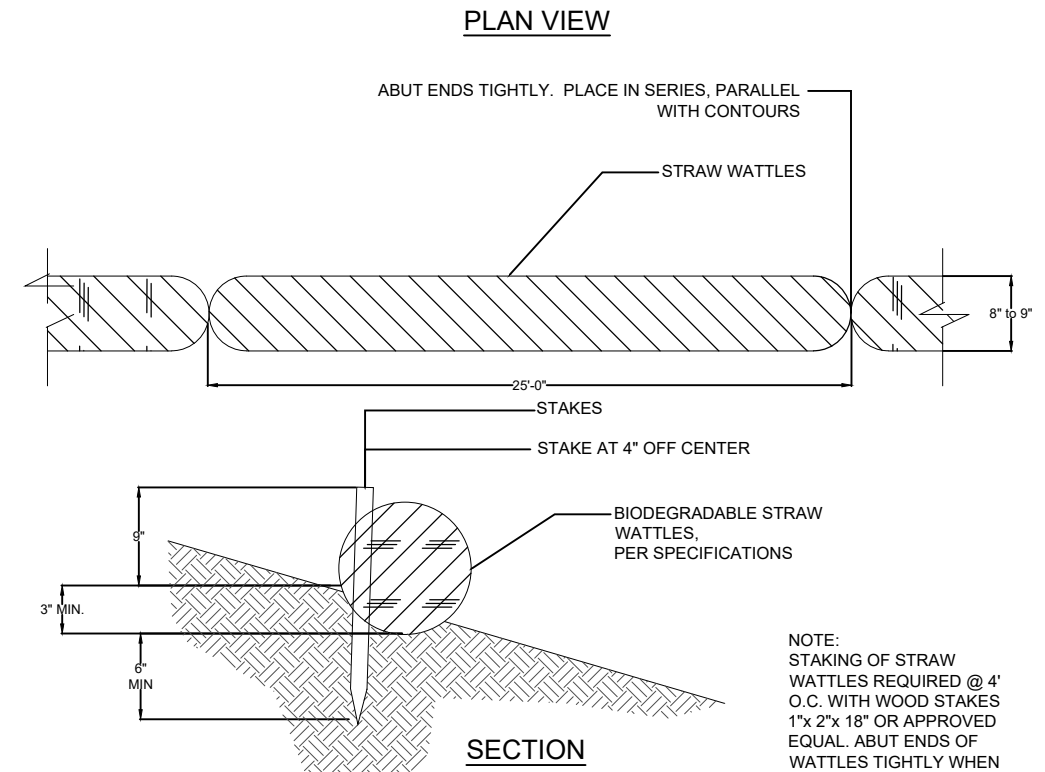
**FABRIC ATTACHMENT DETAIL**  
NTS



**SECTION**  
NTS

- NOTES:
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2 INCH X 2 INCH POSTS AND ATTACH AS SHOWN.
  - BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
  - 2"x 2" FIR, PINE OR STEEL FENCE POSTS. INSTALL POSTS UPHILL OF FILTER FABRIC.
  - STITCHED LOOPS TO BE INSTALLED ON THE UPHILL SIDE OF FABRIC.
  - COMPACT ALL AREAS OF FILTER FABRIC TRENCH.
  - FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

**TYPICAL SEDIMENT FENCING:**  
NTS



**SECTION**

**TYPICAL STRAW WADDLE:**  
NTS

- NOTE:  
STAKING OF STRAW WATTLES REQUIRED @ 4' O.C. WITH WOOD STAKES 1"x 2"x 18" OR APPROVED EQUAL. ABUT ENDS OF WATTLES TIGHTLY WHEN USED IN SERIES ALONG CONTOURS.