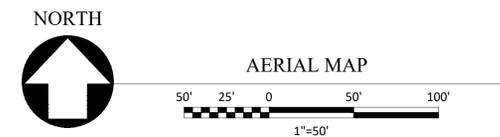
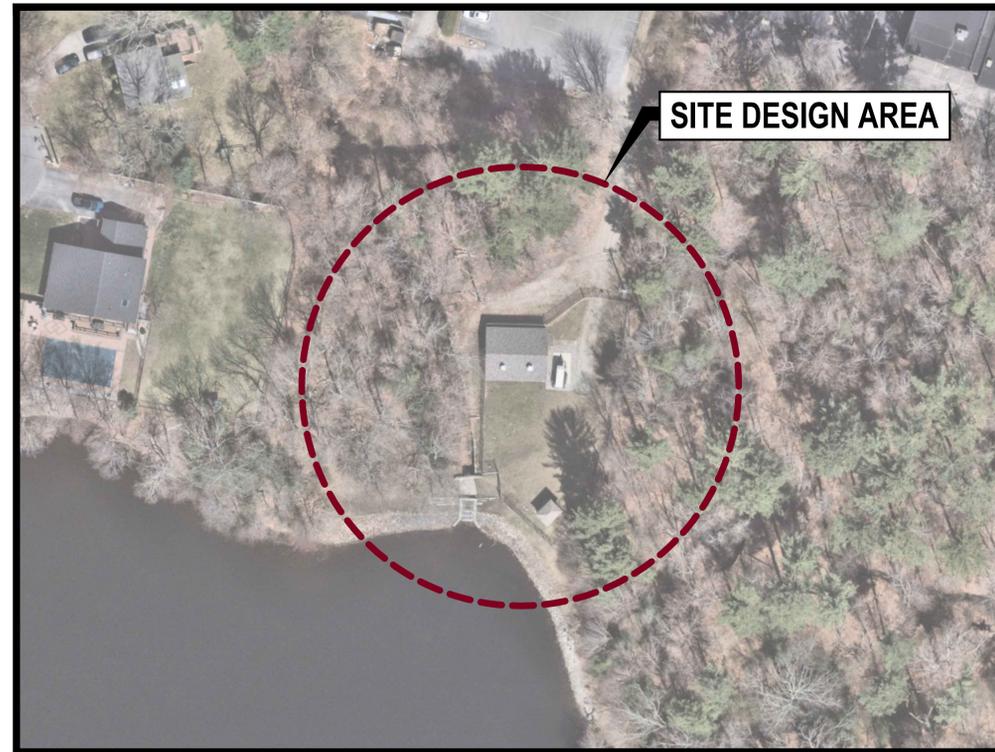
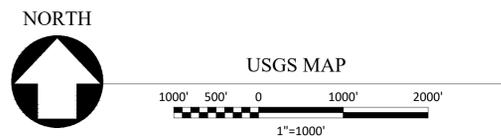
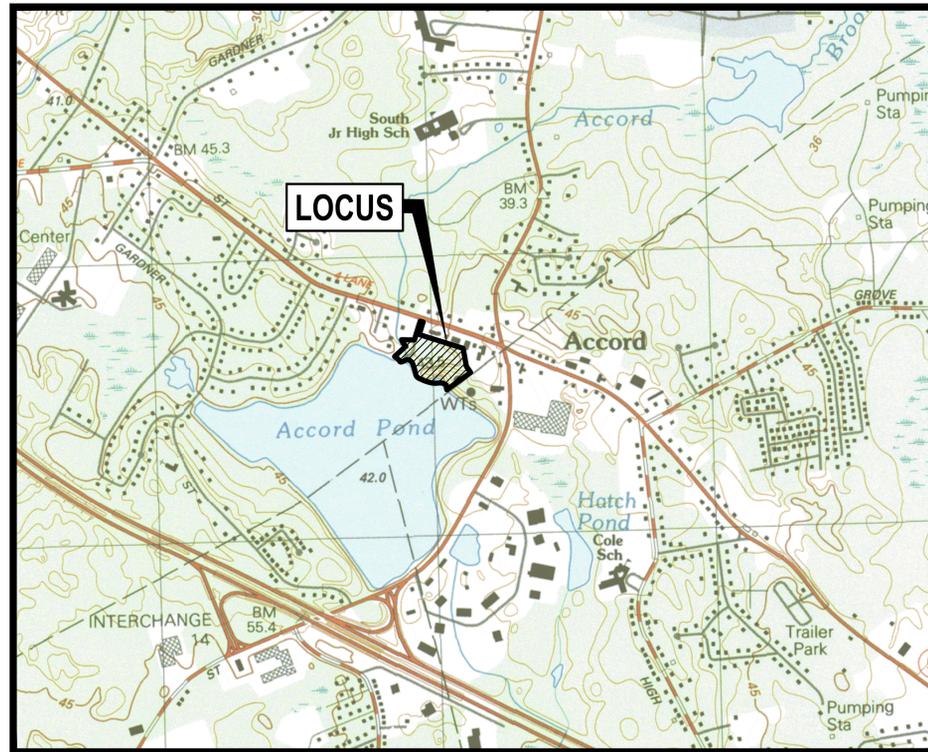


# PROPOSED WATER SERVICE PLANS

## FOR WEIR RIVER WATER SYSTEMS

0 / 42 WHITING STREET, HINGHAM, MA 02043



**APPLICANT:**  
WEIR RIVER WATER SYSTEMS  
185 LINCOLN STREET, UNIT 200B  
HINGHAM, MA 02043



**CIVIL ENGINEER /  
LAND SURVEYORS**

CROCKER DESIGN GROUP, LLC.  
2 SHARP STREET, UNIT A,  
HINGHAM, MA 02043  
(781) 919-0808



**DRAWING INDEX:**

- C-0 COVER SHEET
- C-1 EXISTING CONDITIONS PLAN
- C-2 SITE STAGING PLAN
- C-3 WATER INTAKE PLAN

Date	Description	No.
Revisions		

*John Green*  
JOSHUA L. GREEN  
PROFESSIONAL ENGINEER, MA REGISTRATION #58871

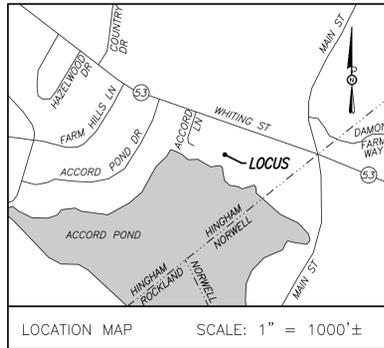
**Crocker Design Group**  
2 SHARP STREET, UNIT A  
HINGHAM, MA 02043  
P: 781-919-0808

Project: **42 WHITING STREET  
ASSESSORS MAP 204  
LOTS 36 & 37  
HINGHAM, MA**

Prepared for:  
**WEIR RIVER  
WATER SYSTEM**  
#25 BARE COVE PARK DRIVE

Drawing Title:  
**COVER SHEET**

Project No.	100-282	Drawing No.	<b>C-0</b>
Date	06 / 06 / 2025		
Scale	AS NOTED		
Drawn By	JPM		
Approved By	JG		



**RECORD OWNER:**  
 ASSESSORS MAP 204 LOT 36  
 42 WHITING STREET  
 HINGHAM, MA, 02043

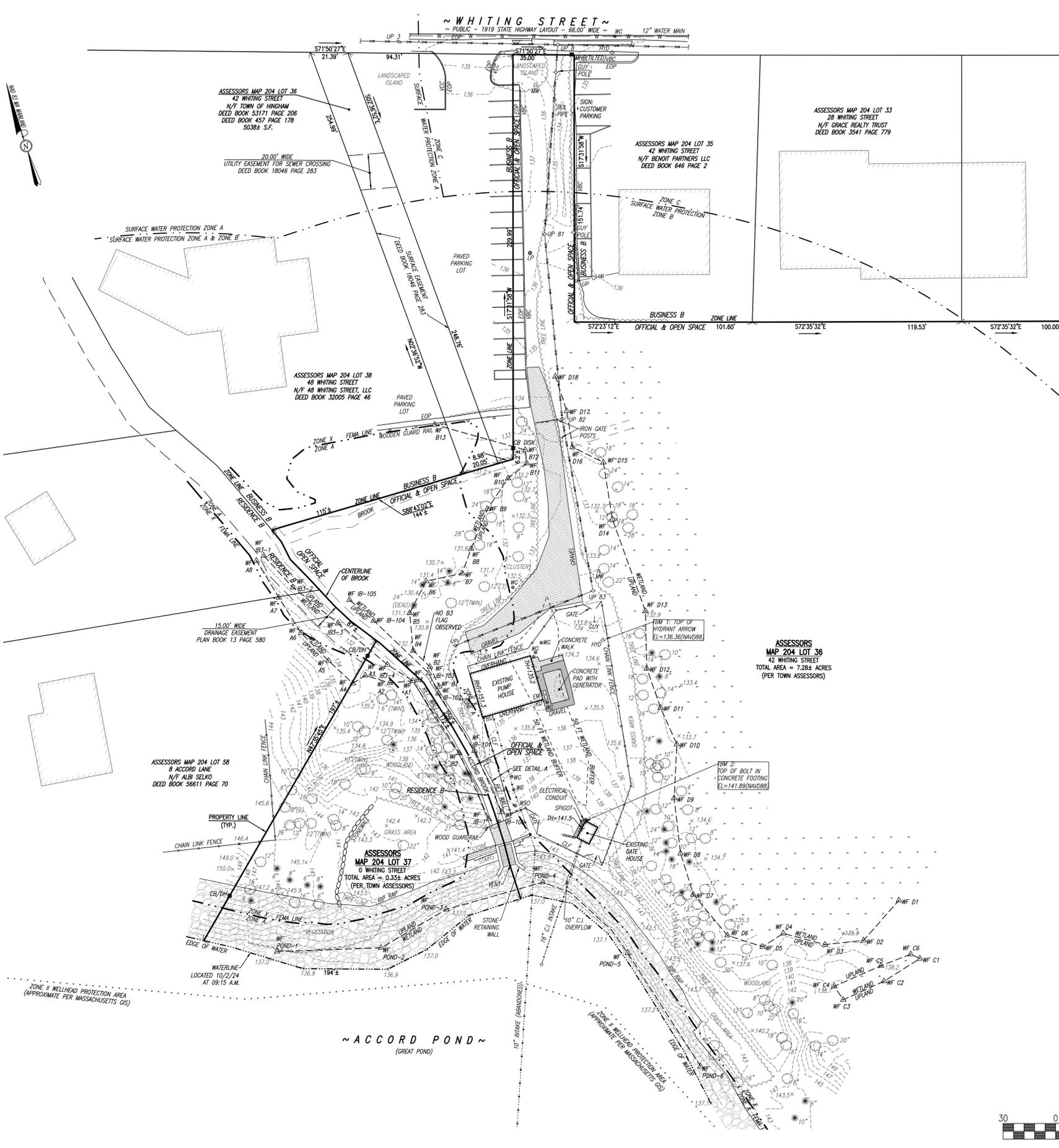
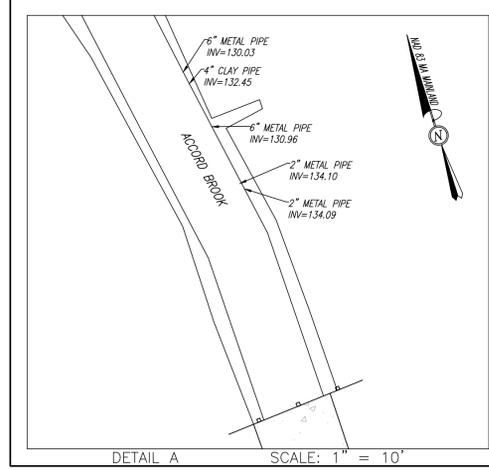
ASSESSOR MAP 204 LOT 37  
 0 WHITING STREET  
 HINGHAM, MA, 02043

TOWN OF HINGHAM  
 210 CENTRAL STREET  
 HINGHAM, MA 02043  
 DEED BOOK 53171 PAGE 206

**FLOOD NOTE:**  
 BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE A AND ZONE X OF THE FLOOD INSURANCE RATE MAP, AS SHOWN ON COMMUNITY MAP No. 250230092L, WHICH BEARS AN EFFECTIVE DATE OF JULY 3, 2024, AND A PORTION OF THE SUBJECT PROPERTY IS WITHIN A SPECIAL FLOOD HAZARD AREA.

- NOTES:**
- PROPERTY LINE, STREET LINE AND OWNER INFORMATION WAS COMPILED FROM RECORDS ON FILE AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS AND THE TOWN OF HINGHAM ASSESSORS DEPARTMENT.
  - TOPOGRAPHIC AND DETAIL INFORMATION SHOWN HEREON IS BASED UPON AN ON THE GROUND SURVEY PERFORMED BY CROCKER DESIGN GROUP DURING OCTOBER OF 2024.
  - ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
  - SUBJECT SITE IS WITHIN THE OFFICIAL AND OPEN SPACE DISTRICT AND RESIDENCE B AS SHOWN ON THE TOWN OF HINGHAM ZONING MAP.
  - EXISTING UTILITIES, WHERE SHOWN, HAVE BEEN COMPILED BASED ON OBSERVED ABOVE GROUND EVIDENCE AND AVAILABLE RECORD PLANS AND ARE TO BE CONSIDERED APPROXIMATE. CROCKER DESIGN GROUP DOES NOT GUARANTEE THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN OR THAT ALL EXISTING UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN.

- ENVIRONMENTAL NOTES:**
- SITE IS NOT WITHIN AN A.C.E.C. (AREA OF CRITICAL ENVIRONMENTAL CONCERN).
  - SITE IS NOT WITHIN AN AREA OF ESTIMATED HABITAT OF RARE WILDLIFE PER NHESP MAP AUGUST 1, 2021 "ESTIMATED HABITATS OF RARE WILDLIFE" FOR USE WITH THE MA WETLANDS PROTECTION ACT REGULATIONS (310 CMR 10).
  - SITE DOES NOT CONTAIN A CERTIFIED VERNAL POOL PER NHESP MAP AUGUST 1, 2021 "CERTIFIED VERNAL POOLS."
  - SITE IS NOT WITHIN A PRIORITY HABITAT PER NHESP MAP AUGUST 1, 2021 "PRIORITY HABITATS OF RARE SPECIES" FOR SPECIES UNDER THE MASSACHUSETTS ENDANGERED SPECIES ACT, REGULATIONS (321 CMR10).
  - SITE IS LOCATED IN ITS ENTIRETY WITHIN A STATE APPROVED ZONE II GROUND WATER RECHARGE PROTECTION AREA.



EXISTING	DESCRIPTION
--- 30 ---	1' CONTOUR
+30.5	SPOT ELEVATION
---	PROPERTY LINE
---	EDGE OF PAVEMENT
---	VERTICAL BITUMINOUS CURB
---	FENCE LINE
---	STONE WALL
---	EDGE OF WATER
---	WATER LINE
---	OVERHEAD WIRE
---	TREE LINE
WF D1, WF D2	WETLAND LINE
---	WETLAND BUFFER
● 8"	CONIFEROUS TREE
○ 8"	DECIDUOUS TREE
○ HYD	HYDRANT
■ CB/DH (Ind)	CONCRETE BOUND W/ DRILL HOLE (FOUND)
■ CB/DSK (Ind)	CONCRETE BOUND W/ DISK (FOUND)
■ HHB (Ind)	HINGHAM HIGHWAY BOUND (FOUND)
◆ TBM 1	CONSTRUCTION BENCHMARK (SET)
□ EM	ELECTRICAL METER
○ RD	ROOF DRAIN

	6.
	5.
	4.
	3.
	2.
	1.
Date	No.

SHANE M. BRENNER  
 PROFESSIONAL LAND SURVEYOR, MA REGISTRATION #45917

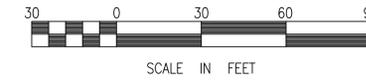
**Crocker Design Group**  
 2 SHARP STREET, UNIT A  
 HINGHAM, MA 02043  
 P: 781-919-0808

Project  
**42 WHITING STREET**  
**ASSESSORS MAP 204**  
**LOTS 36 & 37**  
**HINGHAM, MA**

Prepared for  
**WEIR RIVER**  
**WATER SYSTEM**  
 #25 BARE COVE PARK DRIVE  
 HINGHAM, MA 02043

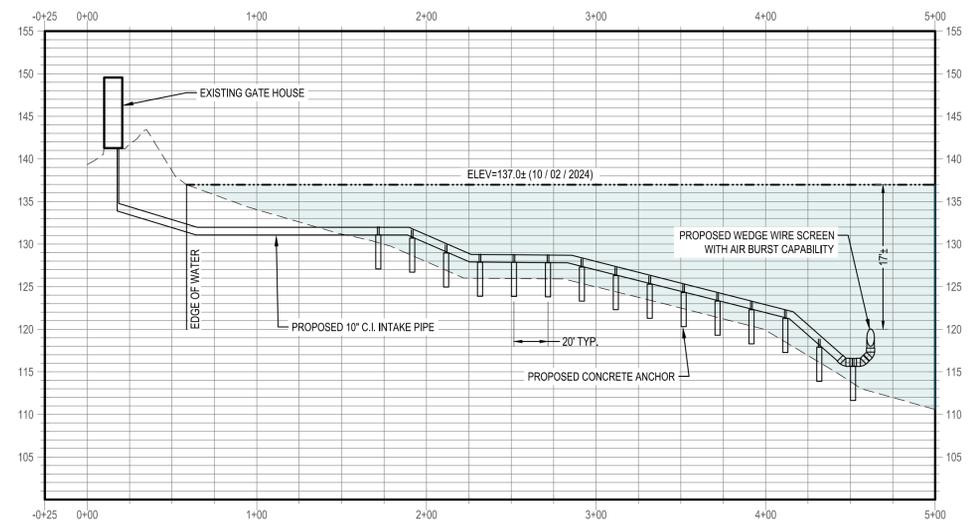
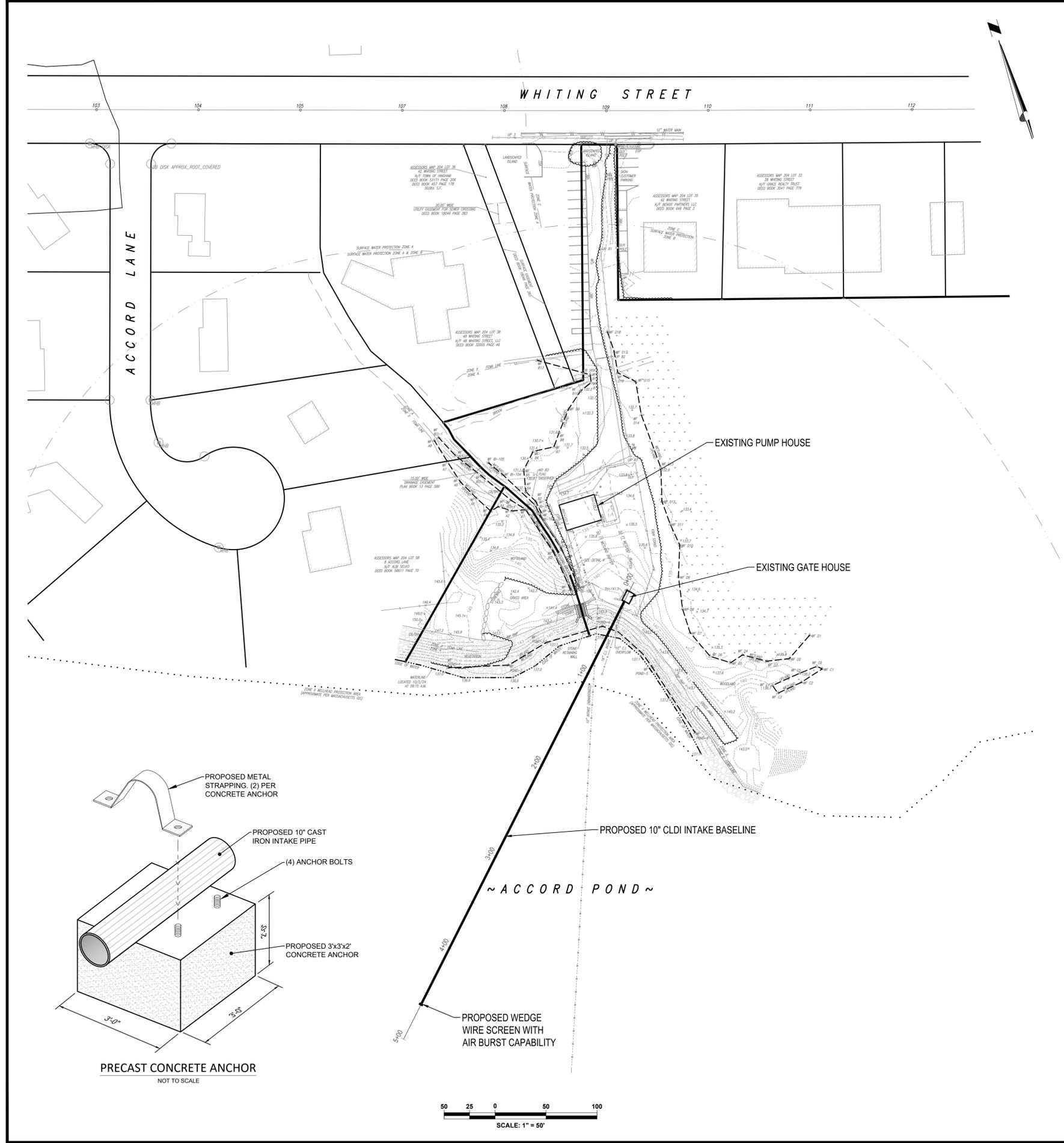
Drawing Title  
**EXISTING**  
**CONDITIONS PLAN**

Project No.	100-282	Drawing No.	<b>C-1</b>
Date	06/10/2025		
Scale	1" = 30'		
Drawn By	SVP		
Approved By	SMB		



C:\Users\Crocker\OneDrive\Desktop\Projects\100-282-36-37\100-282-36-37.dwg, EXISTING CONDITIONS PLAN, 10, 2025, 10:45





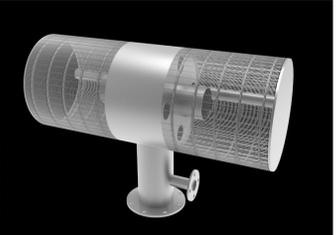
## Intake Screens

Achieving Efficient Filtration Of Water Impurities

Intake screens are typically installed at the inlet point of a pumping system and are designed to protect pumps and other equipment from debris, contaminants in the lakes or water bodies, and to prevent aquatic animals from entering the pipeline.

The intake screen primarily uses wedge wire as the filter screen. The continuous smooth V-shaped wedge wire ensures its open area and filtration effect. It also has self-cleaning and backwashing capabilities to reduce the risk of clogging, significantly improve maintenance efficiency and minimize the need for maintenance.

Based on the water flow rate and applications, we offer T intake screens, half-barrel intake screens, I type intake screens, drum type intake screens and small pipe type intake screens.



### Technical Information

The dimensions of our products can be customized according to the design and purchasing needs of our customers.

- Material** stainless steel and duplex stainless steel
- Slot size** 0.1/0.15/0.2/0.25/0.3 and up to 6.0 mm.
- Diameter** 25 mm to 1500 mm
- Wedge wire sizes** Width: 1.5/1.8/2.3/3.0/3.3/3.7 mm Height: 2.2/2.5/2.7/3.6/4.3/4.7/5.6/6.3/7.0 mm
- Support rod sizes** Width: 2.3/3.0/3.3/3.7 mm Height: 2.7/3.6/4.7/5.6/6.3 mm

### Common Specifications of Passive Intake Screens

Type	Capacity MGD (liters/sec.)	Screen Diameter inch (mm)	Overall Length inch (mm)	Outlet Diameter inch (mm)
T-type Intake Screen	1.0 (44)	12 (305)	44 (1118)	12 (305)
	2.5 (110)	20 (508)	66 (1676)	20 (508)
	5.0 (219)	30 (762)	76 (1930)	24 (610)
	10 (438)	36 (914)	112 (2845)	30 (762)
	20 (876)	54 (1372)	156 (3962)	48 (1219)
Half Intake Screen	30 (1314)	60 (1524)	198 (5029)	54 (1372)
	60 (2629)	90 (2286)	276 (7010)	84 (2134)
	1.0 (44)	18 (457)	56 (1422)	16 (406)
	2.5 (110)	30 (762)	76 (1930)	24 (610)
	5.0 (219)	36 (914)	112 (2845)	30 (762)
Drum Intake Screen	10 (438)	48 (1219)	162 (4115)	42 (1067)
	1.0 (44)	18 (457)	22 (559)	18 (457)
	2.5 (110)	30 (762)	30 (762)	30 (762)
	5.0 (219)	36 (914)	47 (1194)	36 (914)
	10 (438)	48 (1219)	68 (1727)	48 (1219)

Date	Description	No.
Revisions		

*John Green*  
**JOSHUA L. GREEN**  
PROFESSIONAL ENGINEER, MA REGISTRATION #58871

**Crocker Design Group**  
2 SHARP STREET, UNIT A  
HINGHAM, MA 02043  
P: 781-919-0808

Project: **42 WHITING STREET ASSESSORS MAP 204 LOTS 36 & 37 HINGHAM, MA**

Prepared for: **WEIR RIVER WATER SYSTEM**  
#25 BARE COVE PARK DRIVE

Drawing Title: **WATER INTAKE PLAN**

Project No. **100-282** Drawing No. **C-3**  
Date **06 / 06 / 2025**  
Scale **1"=50'**  
Drawn By **JPM**  
Approved By **JG**