

City of East Jordan  
Charlevoix County, Michigan  
Wastewater Treatment Plant

PROJ #2016510001.00	ADDENDUM #1	DATE:05/22/17
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NOTICE: This Addendum No.1, issued in accordance with the Contract Documents, is incorporated into the Contract Documents and supersedes and updates all conflicting information and is hereby amended in certain particulars as follows:

Date: May 22, 2017

**CHANGES TO THE CONTRACT DOCUMENTS:**

1. Wastewater Treatment Plant – Bid Bond
  - a. Attached Bid Bond is to be included in Bid
2. Wastewater Treatment Plant – Section 11285
  - a. Section 2.01 (C) - **ADD** “RW Gates” as approved Manufacturer
  - b. Section 2.03 (C) – **ADD** “RW Gates” as approved Manufacturer
3. Wastewater Treatment Plant – Section 11520
  - a. Extinguisher Manufacturers - **ADD** “Ansul Incorporated, Marinette, WI”
  - b. Multi-Purpose Dry Chemical Type – **STRIKE** “(2A-10BC-FE): UL-rated 2-A, 5lb nominal capacity, **ADD** “ (10# ABC) : UL-rated 4-A, 80-B:C.
4. Wastewater Treatment Plant – Section 11307
  - a. Section 1.01 (C.1) – **STRIKE** “See existing plans”
5. Wastewater Treatment Plant – Section 11310  
Section 2.08 (C) – **DELETE** C in its entirety and **REPLACE** with  
“C. Operating conditions: Each Effluent pump unit shall be capable of operating at infinitely variable speeds to meet the following operating conditions:
  1. Operating Range: 165 gpm @ 16.5' TDH to 650 gpm @ 51' TDH.
  2. Nominal size of connections:
    - a. Suction: 4 inch
    - b. Discharge: 3 inch
  3. Solids handling: Ability to pass a 3 inch diameter sphere.
  4. Impeller: 9.25inches
  5. Motor: 15 hp, 1800 rpm, variable speed duty, 480 V, 3 phase.”
6. Wastewater Treatment Plant – Section 15480
  - a. Section 2.04 (B.11) – **ADD** “Milliken Millcentric” as approved equal
  - b. Section 2.04 (D.6) - **ADD** “Milliken CCNE” as approved equal
7. Wastewater Treatment Plant – Section 28 31 10
  - a. Section 1.02 (A) – **ADD** “ 3. The master control cabinet shall be provided with an integral uninterruptible power supply (UPS) to provide power for the cabinet’s components for a minimum of 30 minutes.”

**CHANGES TO THE PLANS:**

1. M-1: **ADD** Under NOTE “ \* DENOTES EQUIPMENT SUPPLIED BY MANUFACTURER.”, See Sheet M-1

2. M-1: **ADD** “ \* “ to GRIT BLOWER, BELT GUARD, MOTOR, INLET FILTERS/SILENCER, 1-1/2” 304 SS AIRLIFT SUPPLYLINE. See sheet M-1
3. M-1: **REPLACE** Last note Under FEW NOTES with “6” FOOT VALVE ON SUCTION (EB-5, NOT SHOWN), C/L ELEV.: 632.00’ +/- 0.08’ FOOT VALVE TO BE APPROVED BY ENGINEER” See Sheet M-1
4. M-2: **ADD** dotted line around equipment supplied by manufacturer. See Sheet M-2
5. M-3 **REPLACE** Valve label in Section M-8 from EB-6 to EB-5. See Sheet M-3.
6. M-3 **ADD** dotted line around equipment supplied by manufacturer. See Sheet M-3.
7. M-4 **REPLACE** Wall Sleeve Type on Influent Mixing Box at all gate locations from Type 1 to Type 5. Typical of 8, See Sheet M-4
8. M-4 **RELOCATE** “STEEL EFFLUENT PIPE WITH FLANGED END (TO BE FIELD WELDED” back to Clarifier weir location. (Typical of both). See Sheet M-4.
9. M-4 **REPLACE** (TYP. OF 4) with (TYP. OF 8) on “1/4” THICK, SLIP RESISTANT CHECKERPLATE ALUMINUM OVERS MOTORS & ROTORS...” See Sheet M-4

#### **General Mechanical**

1. MP-2 **DELETE** “FH-1” From Plumbing Fixture Schedule and “FH-1” on Plumbing Lab Building Plan

#### **ADDENDUM ACKNOWLEDGMENT:**

This Addendum No. 1 shall be attached to and shall become a part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may result in the rejection of the Bid.

#### **END SECTION**

#### **DISTRIBUTION: (via email)**

All Plan Holders  
Tom Cannon, City of East Jordan  
Troy Thomas, City of East Jordan  
Andy Granskog, USDA RD  
File

## BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

City of East Jordan  
201 Main Street  
East Jordan, MI, 49727

BID

Bid Due Date:

Description (*Project Name— Include Location*):

BOND

Bond Number:

Date:

Penal sum \_\_\_\_\_ \$ \_\_\_\_\_  
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

**BIDDER**

**SURETY**

\_\_\_\_\_  
Bidder's Name and Corporate Seal

\_\_\_\_\_  
Surety's Name and Corporate Seal

By:

Signature

Print Name

Title

Attest:

Signature

Title

By:

Signature (Attach Power of Attorney)

Print Name

Title

Attest:

Signature

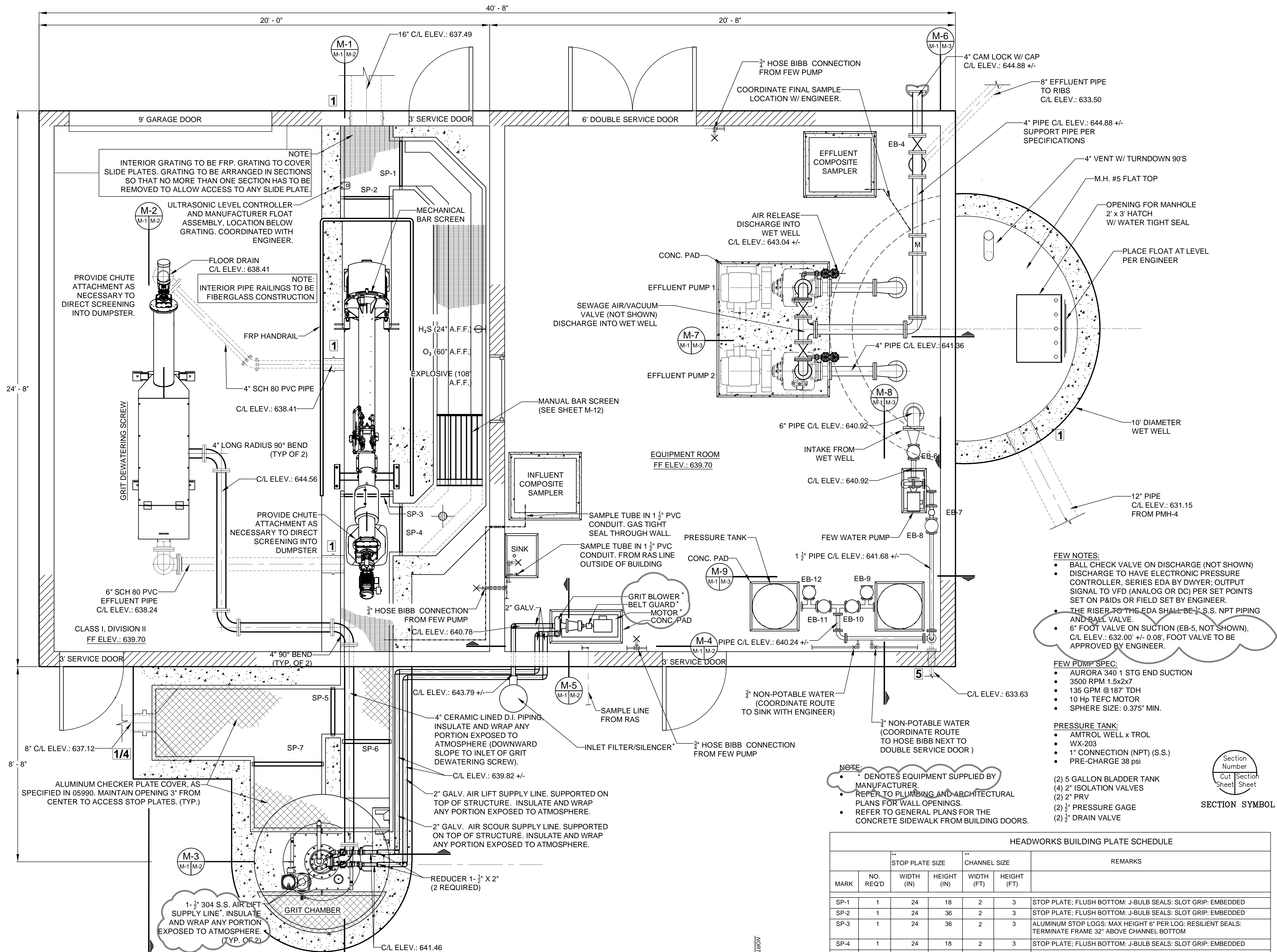
Title

*Note: Addresses are to be used for giving any required notice.*

*Provide execution by any additional parties, such as joint venturers, if necessary.*

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
  - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
  - 3.2 All Bids are rejected by Owner, or
  - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.



PLAN - HEADWORKS AND EQUIPMENT BUILDING

SCALE: 1/2" = 1'-0"

- FEW NOTES:**
- BALL CHECK VALVE ON DISCHARGE (NOT SHOWN)
  - DISCHARGE TO HAVE ELECTRONIC PRESSURE CONTROLLER, SERIES EDA BY DWYER; OUTPUT SIGNAL TO VFD (ANALOG OR DC) PER SET POINTS SET ON P&IDs OR FIELD SET BY ENGINEER.
  - THE RISER TO THE EDA SHALL BE 1" S.S. NPT PIPING AND BALL VALVE.
  - 6" FOOT VALVE ON SUCTION (EB-5, NOT SHOWN), C/L ELEV.: 632.00' +/- 0.08', FOOT VALVE TO BE APPROVED BY ENGINEER.

- FEW PUMP SPEC:**
- AURORA 340 1 STG END SUCTION
  - 3500 RPM 1.5x2x7
  - 135 GPM @187' TDH
  - 10 Hp TEFC MOTOR
  - SPHERE SIZE: 0.375" MIN.

- PRESSURE TANK:**
- AMTROL WELL x TROL
  - WX-203
  - 1" CONNECTION (NPT) (S.S.)
  - PRE-CHARGE 38 psi

- (2) 5 GALLON BLADDER TANK  
(4) 2" ISOLATION VALVES  
(2) 2" PRV  
(2) 1/2" PRESSURE GAGE  
(2) 1/2" DRAIN VALVE

- NOTE:**
- DENOTES EQUIPMENT SUPPLIED BY MANUFACTURER.
  - REFER TO PLUMBING AND ARCHITECTURAL PLANS FOR WALL OPENINGS.
  - REFER TO GENERAL PLANS FOR THE CONCRETE SIDEWALK FROM BUILDING DOORS.

HEADWORKS BUILDING PLATE SCHEDULE						
		** STOP PLATE SIZE		** CHANNEL SIZE		REMARKS
MARK	NO. REQ'D	WIDTH (IN)	HEIGHT (IN)	WIDTH (FT)	HEIGHT (FT)	
SP-1	1	24	18	2	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED
SP-2	1	24	36	2	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED
SP-3	1	24	36	2	3	ALUMINUM STOP LOGS: MAX HEIGHT 6" PER LOG; RESILIENT SEALS: TERMINATE FRAME 32" ABOVE CHANNEL BOTTOM
SP-4	1	24	18	2	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED
SP-5	1	24	36	2	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED
SP-6	1	24	36	2	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED
SP-7	1	36	36	3	3	STOP PLATE; FLUSH BOTTOM: J-BULB SEALS: SLOT GRIP: EMBEDDED

\*\* SEE DETAIL SHEET FOR TYPICAL PLATE DETAILS & DIMENSION REFERENCE POINTS

**Gosling Cubak**  
engineering sciences, inc.  
12080 Riverchase Blvd., Suite 100  
Tomball, TX 77375  
281-366-9101 800-686-1062  
Fax: 281-366-1063

By: M.H. M.H. M.H.  
Checked By: M.H.

Revision: PART 41 DEGRADATION  
PUMP AND PUMP  
ISSUED FOR BIDDING  
ADDENDUM #1

Date: 12/12/16  
1 05/07/17  
2 05/22/17  
3  
4

No. 1  
2  
3  
4

Drawn By: ERB  
Checked By: M.H.

Date: 11/10/2016  
Scale: AS NOTED

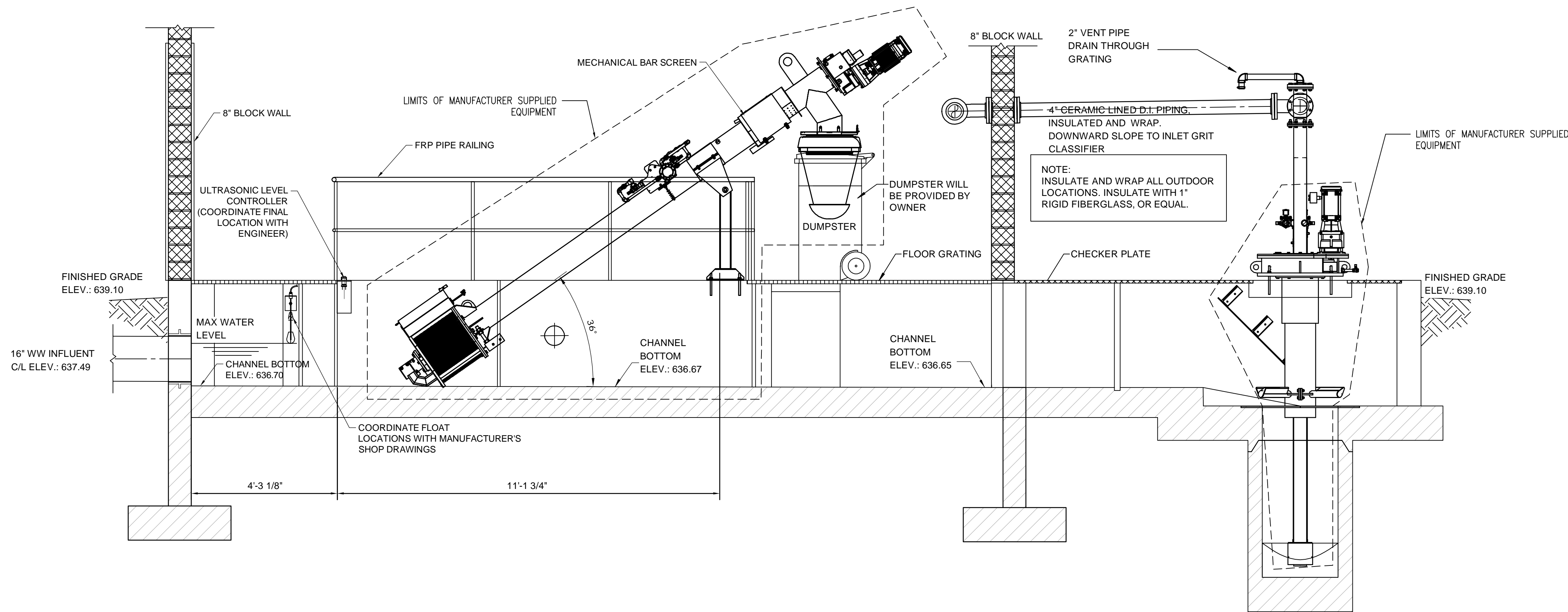
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T32N R07W,  
CITY OF EAST JORDAN,  
CHARLEVOIX COUNTY, MICHIGAN

**HEADWORKS AND EQUIPMENT BUILDING PLAN**

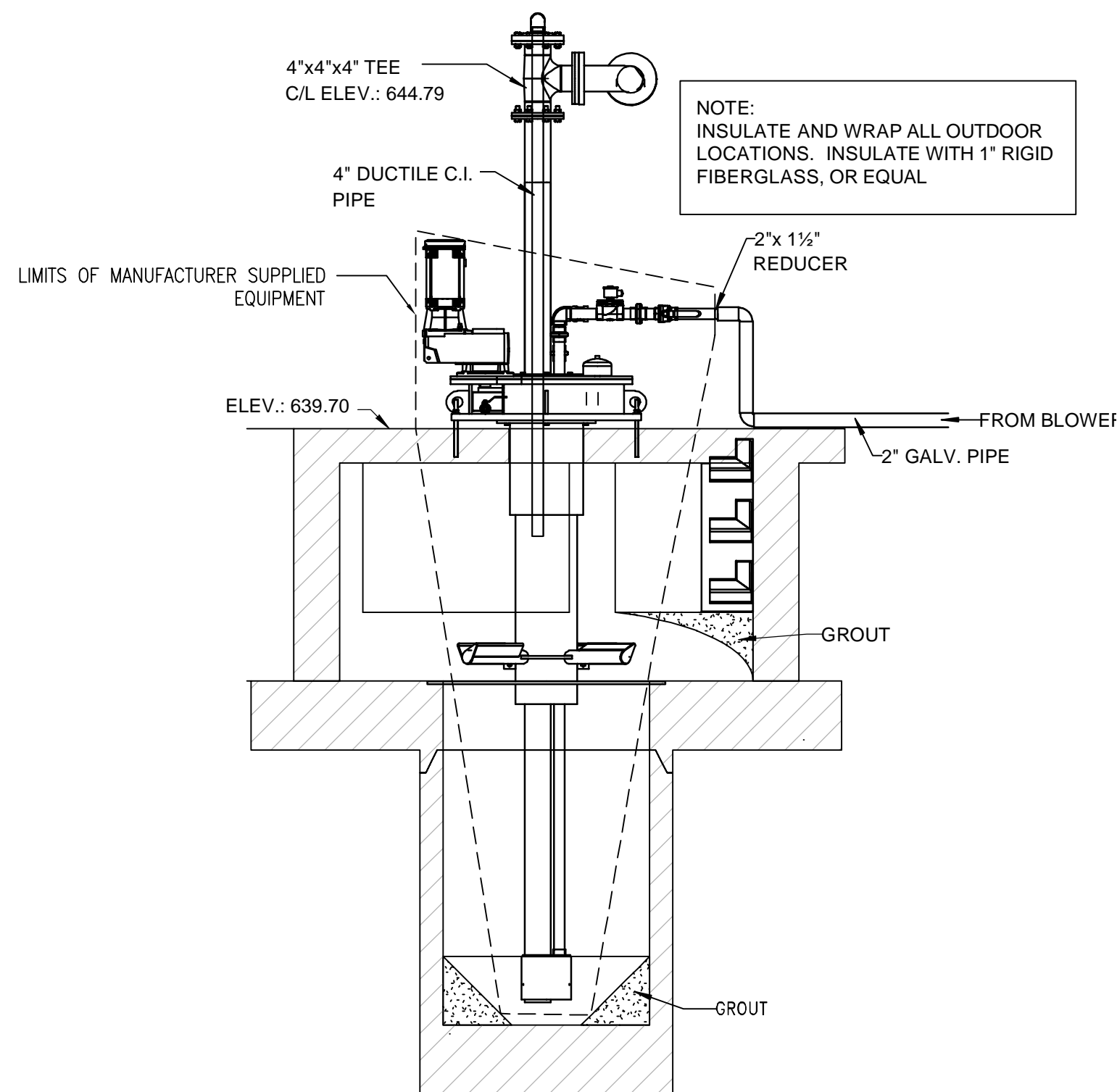
**CITY OF EAST JORDAN WWTP**

Project No.  
2016510001.04

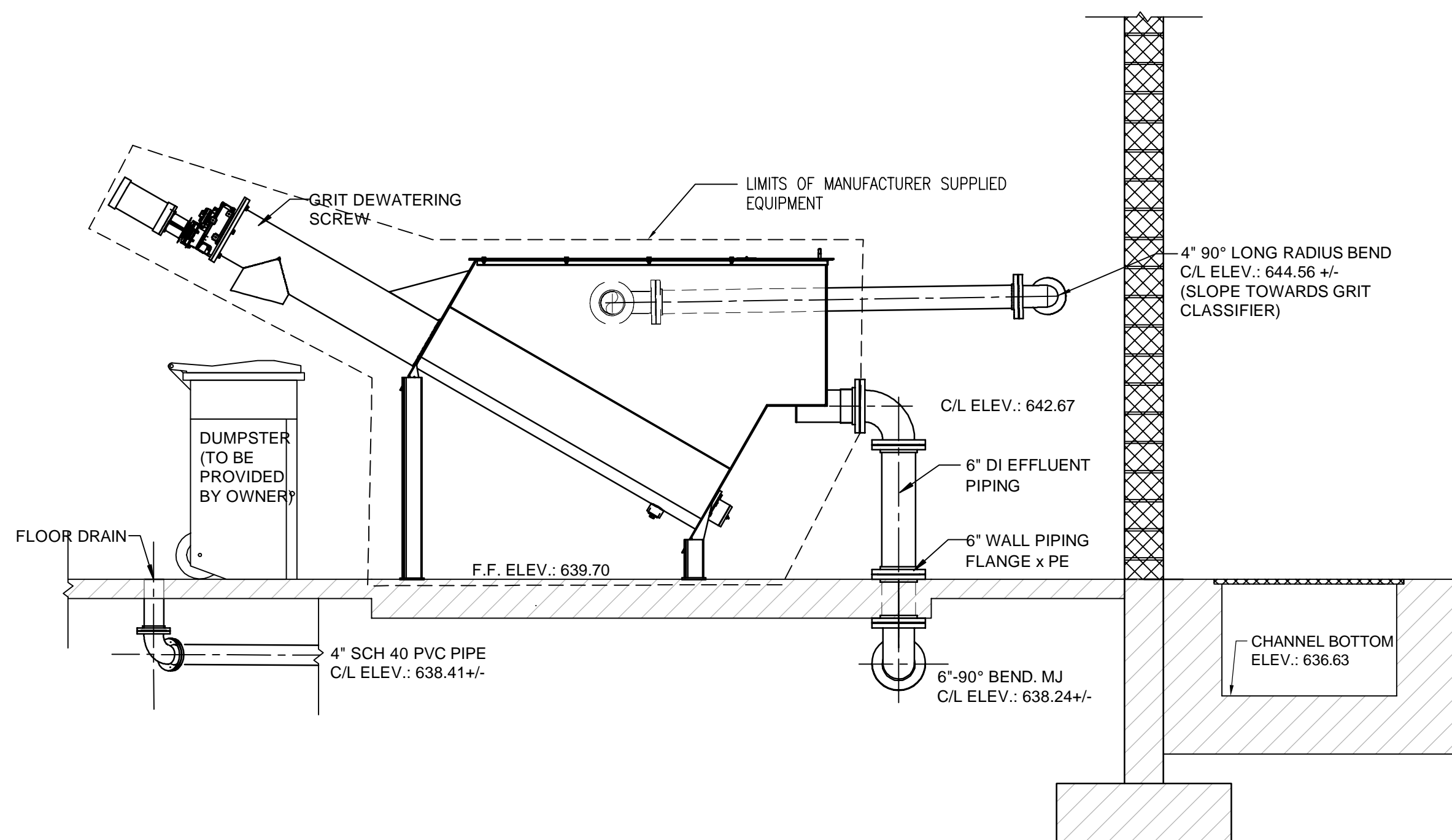
Sheet  
**M-1**



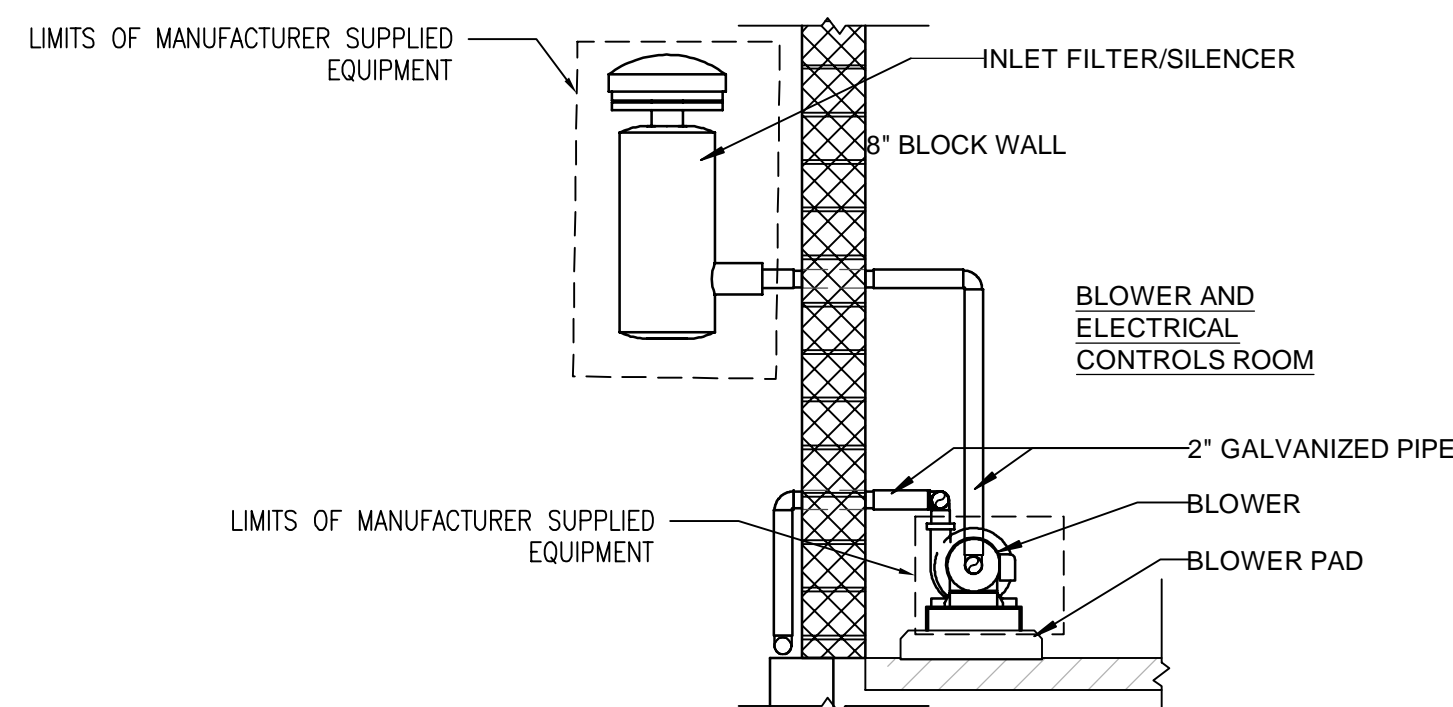
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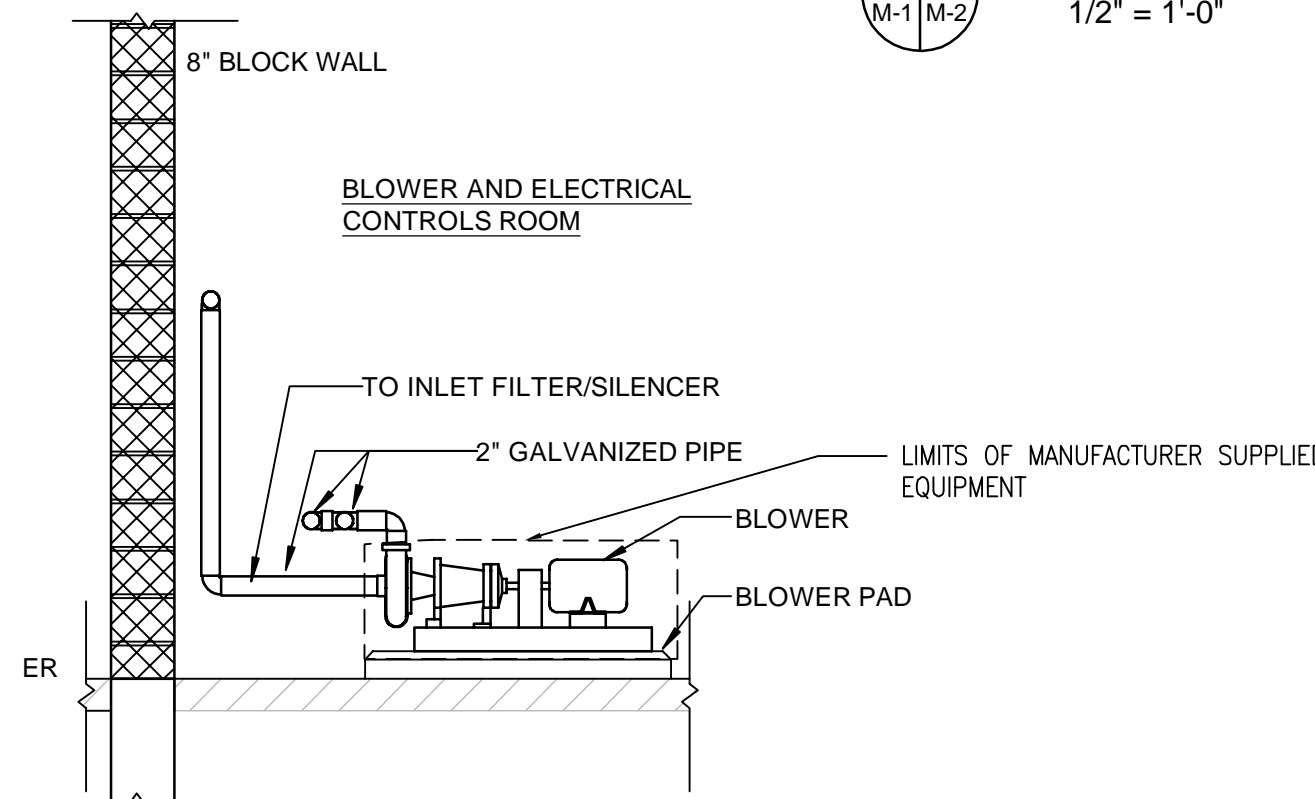
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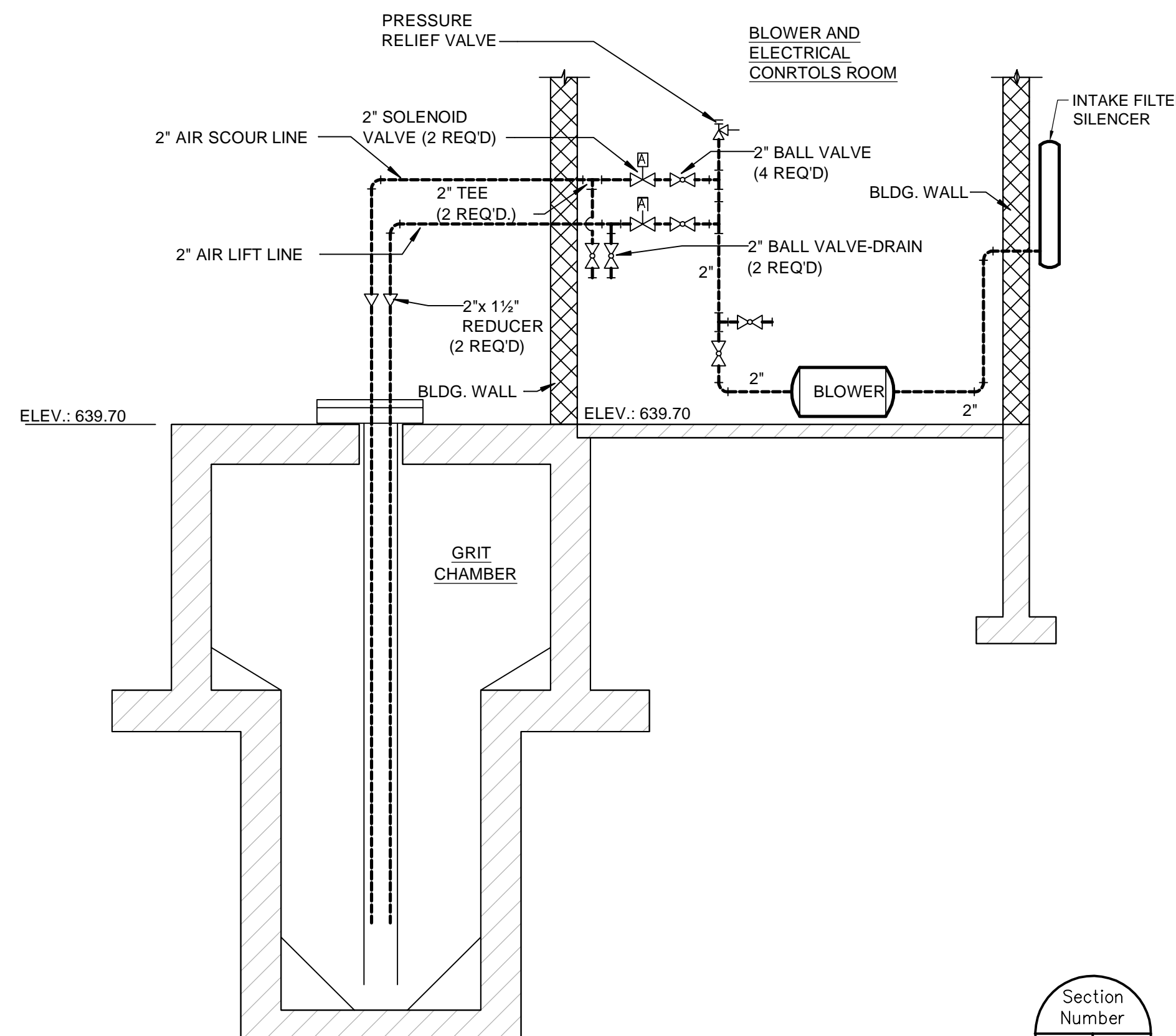
**SECTION M-2**  
1/2" = 1'-0"



**SECTION M-5**  
1/2" = 1'-0"



**SECTION M-4**  
1/2" = 1'-0"



**BLOWER SCHEMATIC**  
NO SCALE

**SECTION SYMBOL**

**Gosling Czuhak**  
engineering sciences, inc.  
1280 Business Park Drive  
231-946-9191 800-965-1662  
Fax: 231-941-4603

Engineers  
Surveyors  
Environmental Services  
Architecture

By: MJH  
MJH  
MJH

Revision:  
PART 41 DES SUBMITTAL  
PER REQ PART 41 REVIEW  
ISSUED FOR BIDDING  
ADDITIONAL M1

No.: 1  
2  
3  
4

Date:  
12/2/16  
03/31/17  
05/07/17  
05/22/17

Drawn By: DPG  
Checked By: MJH

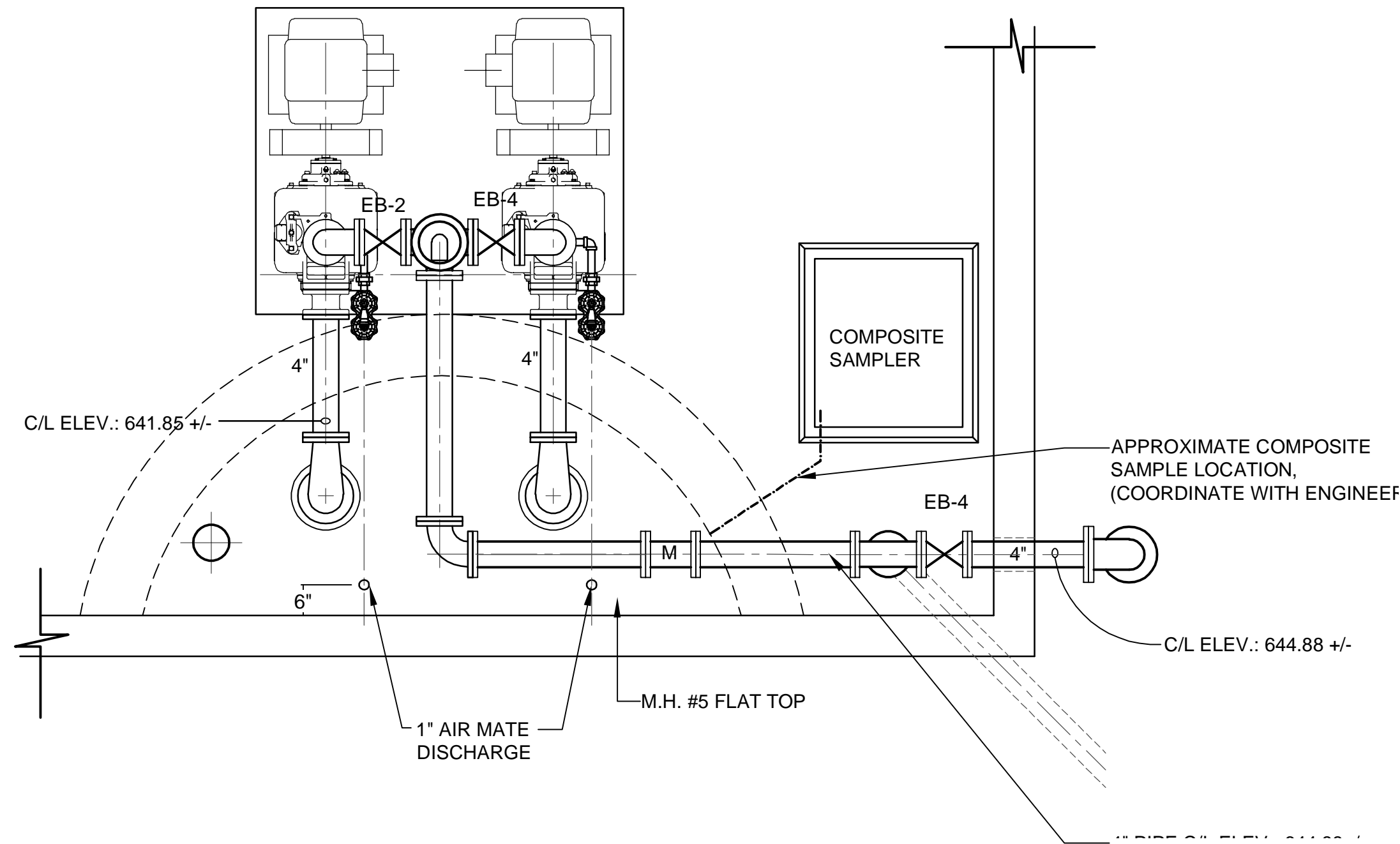
Date:  
11/07/2016  
Scale:  
AS NOTED

Location:  
PART OF SECTION 36,  
T32N R07W  
CITY OF EAST JORDAN  
CHARLEVOIX COUNTY, MI

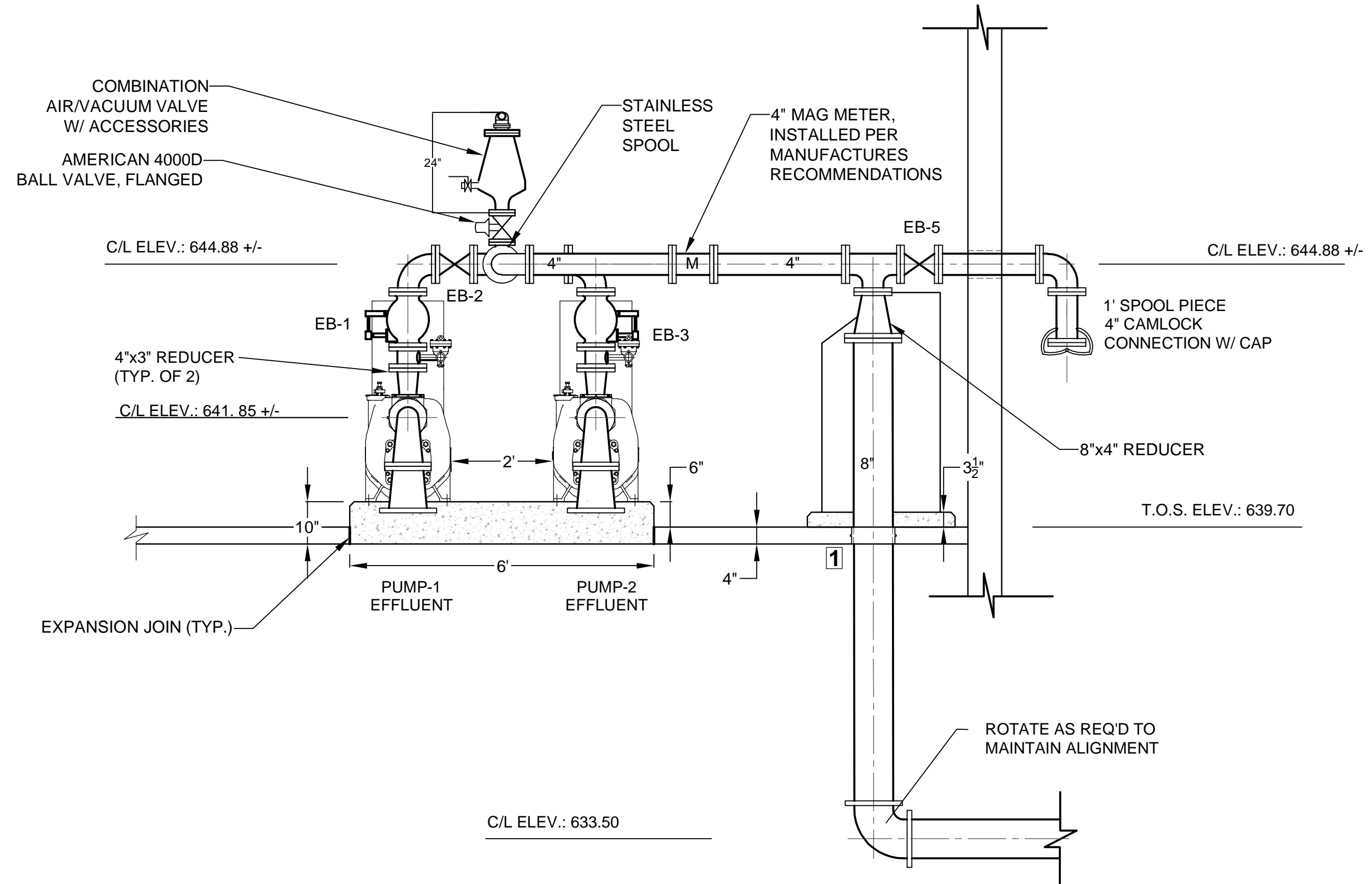
Section Number  
Cut Section  
Sheet Sheet

Project No.  
2016S10001.04  
Sheet  
**M-2**

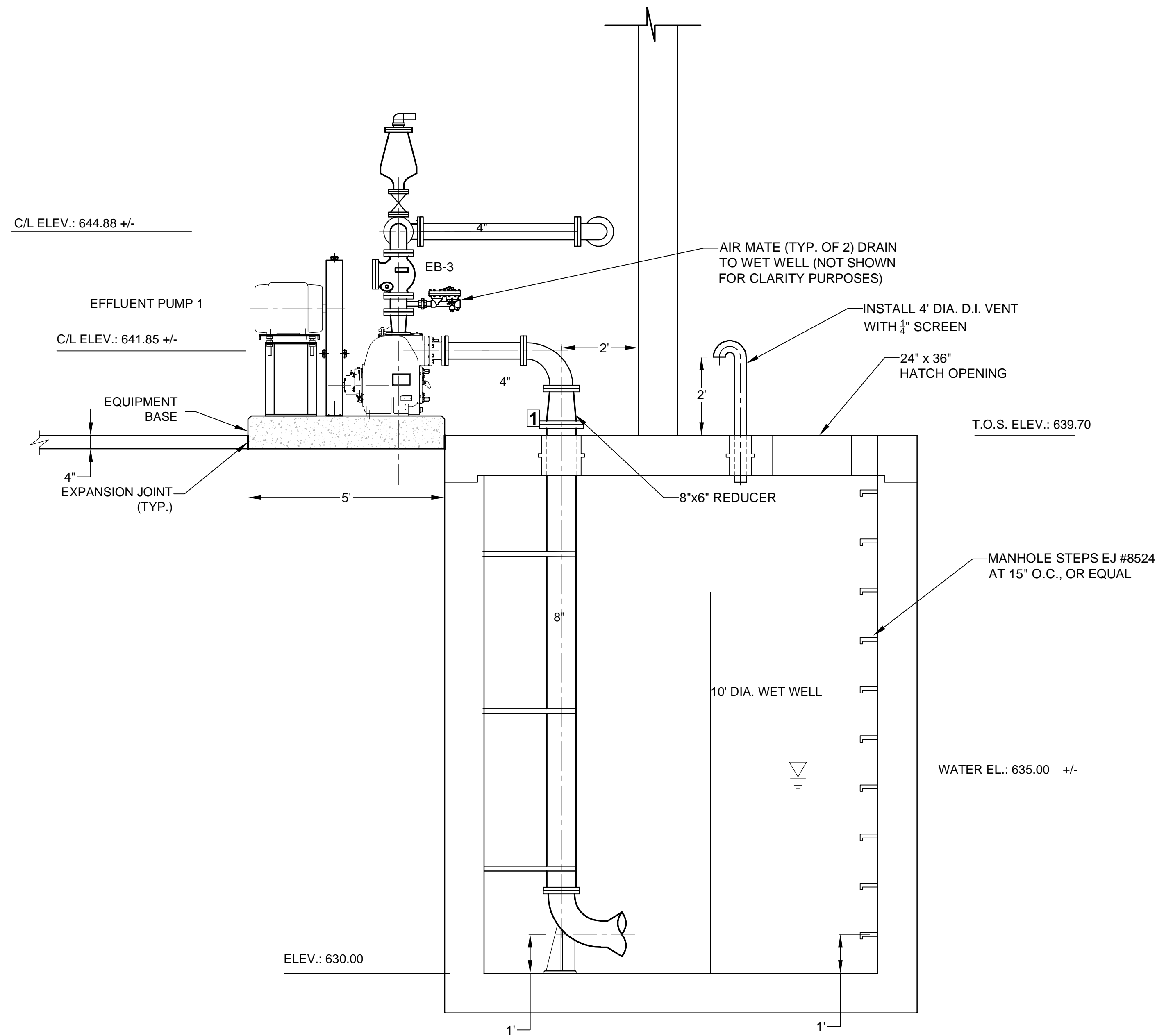




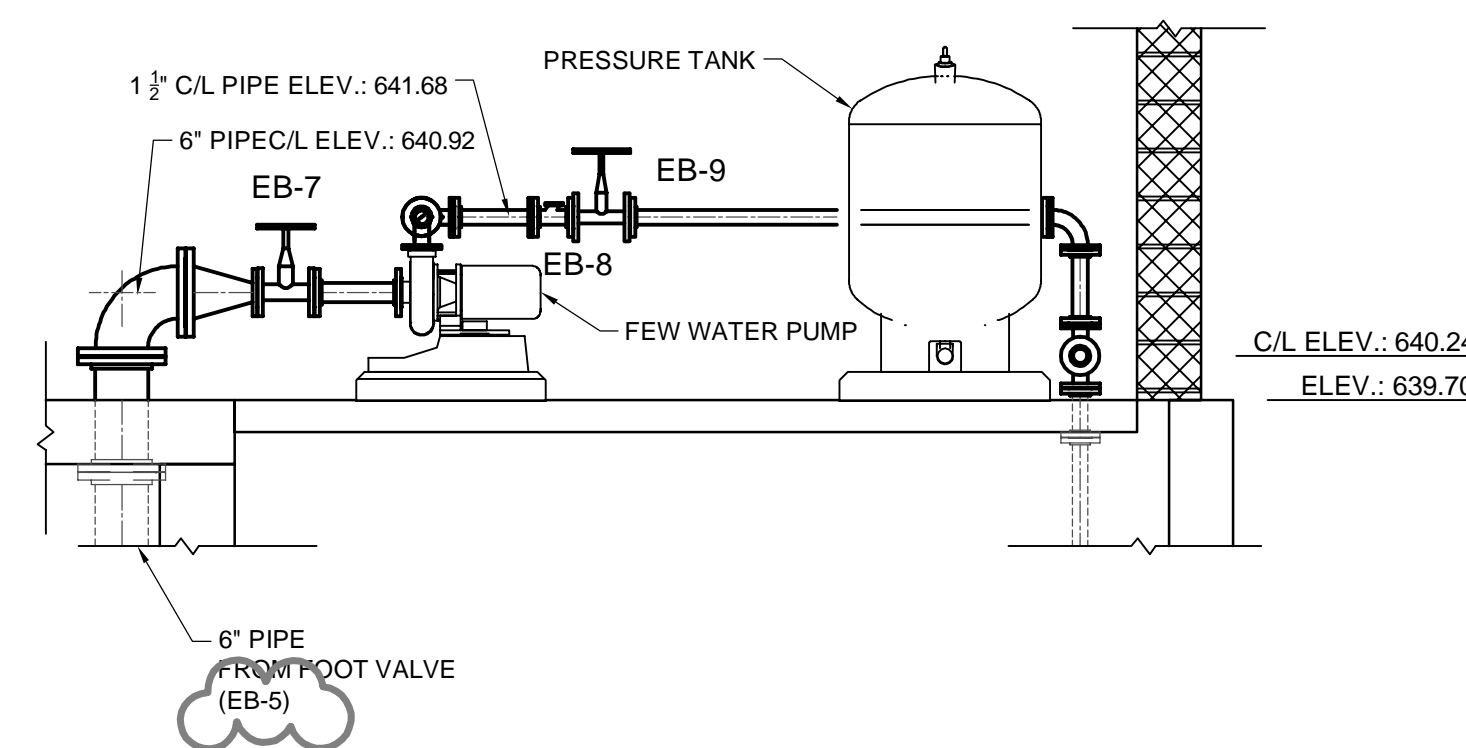
**PLAN - EFFLUENT PUMPS**  
SCALE: 1/2" = 1'-0"



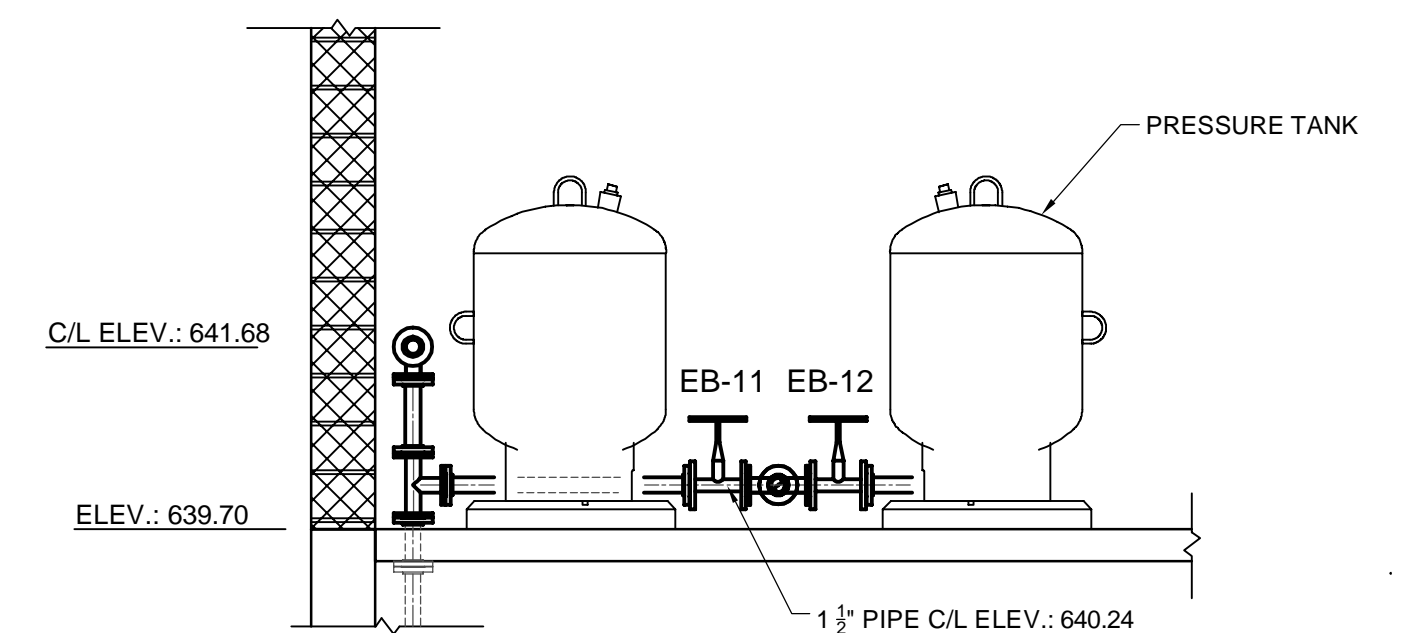
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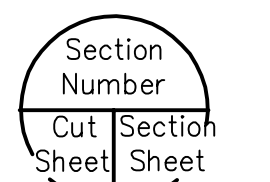
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SCALE: 1/2" = 1'-0"



**M-8 SECTION**  
SCALE: 1/2" = 1'-0"



**M-9 SECTION**  
SCALE: 1/2" = 1'-0"

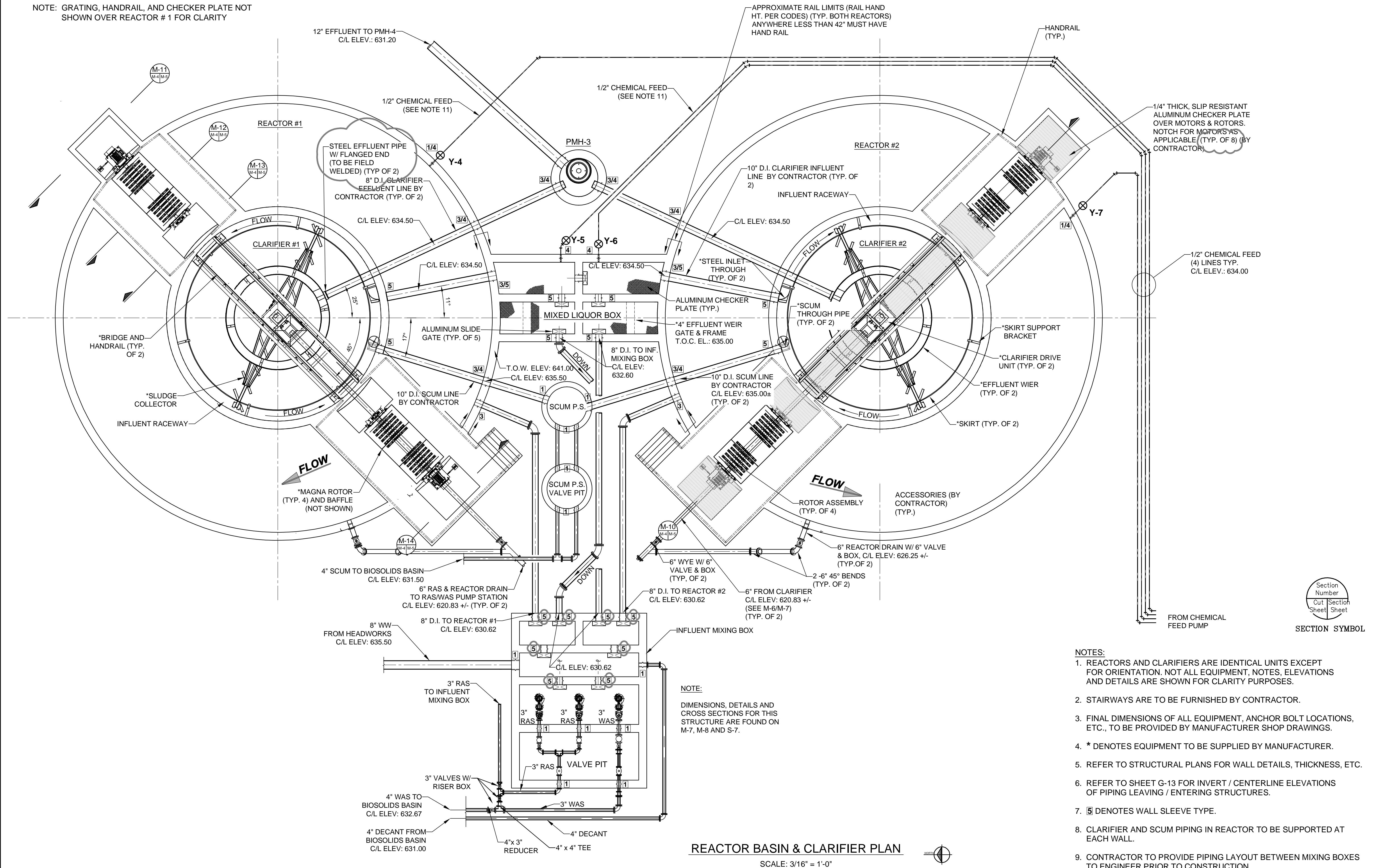


SECTION SYMBOL





NOTE: GRATING, HANDRAIL, AND CHECKER PLATE NOT SHOWN OVER REACTOR #1 FOR CLARITY



#### NOTES:

1. REACTORS AND CLARIFIERS ARE IDENTICAL UNITS EXCEPT FOR ORIENTATION. NOT ALL EQUIPMENT, NOTES, ELEVATIONS AND DETAILS ARE SHOWN FOR CLARITY PURPOSES.
2. STAIRWAYS ARE TO BE FURNISHED BY CONTRACTOR.
3. FINAL DIMENSIONS OF ALL EQUIPMENT, ANCHOR BOLT LOCATIONS, ETC., TO BE PROVIDED BY MANUFACTURER SHOP DRAWINGS.
4. \* DENOTES EQUIPMENT TO BE SUPPLIED BY MANUFACTURER.
5. REFER TO STRUCTURAL PLANS FOR WALL DETAILS, THICKNESS, ETC.
6. REFER TO SHEET G-13 FOR INVERT / CENTERLINE ELEVATIONS OF PIPING LEAVING / ENTERING STRUCTURES.
7. 5 DENOTES WALL SLEEVE TYPE.
8. CLARIFIER AND SCUM PIPING IN REACTOR TO BE SUPPORTED AT EACH WALL.
9. CONTRACTOR TO PROVIDE PIPING LAYOUT BETWEEN MIXING BOXES TO ENGINEER PRIOR TO CONSTRUCTION.
10. REACTOR MIXERS NOT SHOWN, CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
11. SEE SHEET M-7 FOR CHEMICAL FEED AT STRUCTURES.



By:	ERB
Checked By:	MLH
Revision:	INITIAL
Part 41	PER REQ PART 41 REVIEW
Part 42	ISSUED FOR BIDDING
Part 43	ADDENDUM #1
Date:	11/07/2016
No.:	2
Date:	03/14/17
No.:	3
Date:	05/07/17
No.:	4
Date:	05/22/17

Drawn By:	ERB
Checked By:	MLH
Date:	11/07/2016
No.:	2
Date:	03/14/17
No.:	3
Date:	05/07/17
No.:	4
Date:	05/22/17

Location:  
PART OF SECTION 36,  
T32N, R07W,  
CITY OF EAST JORDAN,  
CHARLEVOIX COUNTY, MICHIGAN

## REACTOR BASIN AND CLARIFIER PLAN