

ADDENDUM NUMBER 1

Page 1 of 4

PROJECT	BIDS DUE
Village of Central Lake Sanitary Sewer Improvements Division B – Pump Station Replacement GFA Project No: 21006	Date: August 27, 2026 Time: 9:30 AM Location: Village of Central Lake 2530 N Main St Central Lake, MI 49622

The Addendum is issued prior to the receipt of bid proposals to amend the Contract Documents as follows. Bidders shall acknowledge receipt of this addendum by means of acknowledging on Page 1 of the Bid Form (EJCDC C-410).

CLARIFICATIONS

1. Effluent Cluster Pumps – All references to simplex in the bid documents shall be disregarded. The proposed replacement cluster pump stations are duplex and shall be constructed and installed compliant with the bid drawing, Sheet C4.4.

SPECIFICATIONS / DRAWINGS

DRAWINGS

1. Sheet C1.1 included with this addendum shall be incorporated into the bid documents.
2. Sheet C2.2 shall be stricken in its' entirety and shall be replaced with the attached and incorporated into the bid documents. The changes are clouded and illustrate recent site updates that were implemented to include kayak launch and sidewalk that are within the vicinity of this project.
3. Sheet C4.2 shall be stricken in its' entirety and shall be replaced with the attached and incorporated into the bid documents. The proposed changes are clouded and provide additional wiring and conduit information pertinent to the proposed generator. In addition, further clarification and information is provided as the proposed generator is intended to support both Pump Station #1 and the Village Office. All costs associated with materials, electrical, wiring, conduit, and labor are to be provided and included in the respective bid items.

This Addendum No. 1 becomes part of the Contract Documents as of this date and supersedes the information in the originally issued Contract Documents where applicable. The Contractor shall acknowledge receipt of the Addendum in the Bid Schedule included with his/her bid.

PLANS PREPARED FOR:
VILLAGE OF CENTRAL LAKE
SANITARY SEWER SYSTEM IMPROVEMENTS
DIVISION B: PUMP STATION REPLACEMENT

CLIENT / AGENCY

VILLAGE OF CENTRAL LAKE
2530 NORTH MAIN STREET
CENTRAL LAKE, MICHIGAN 49622
PHONE: 231.544.6483



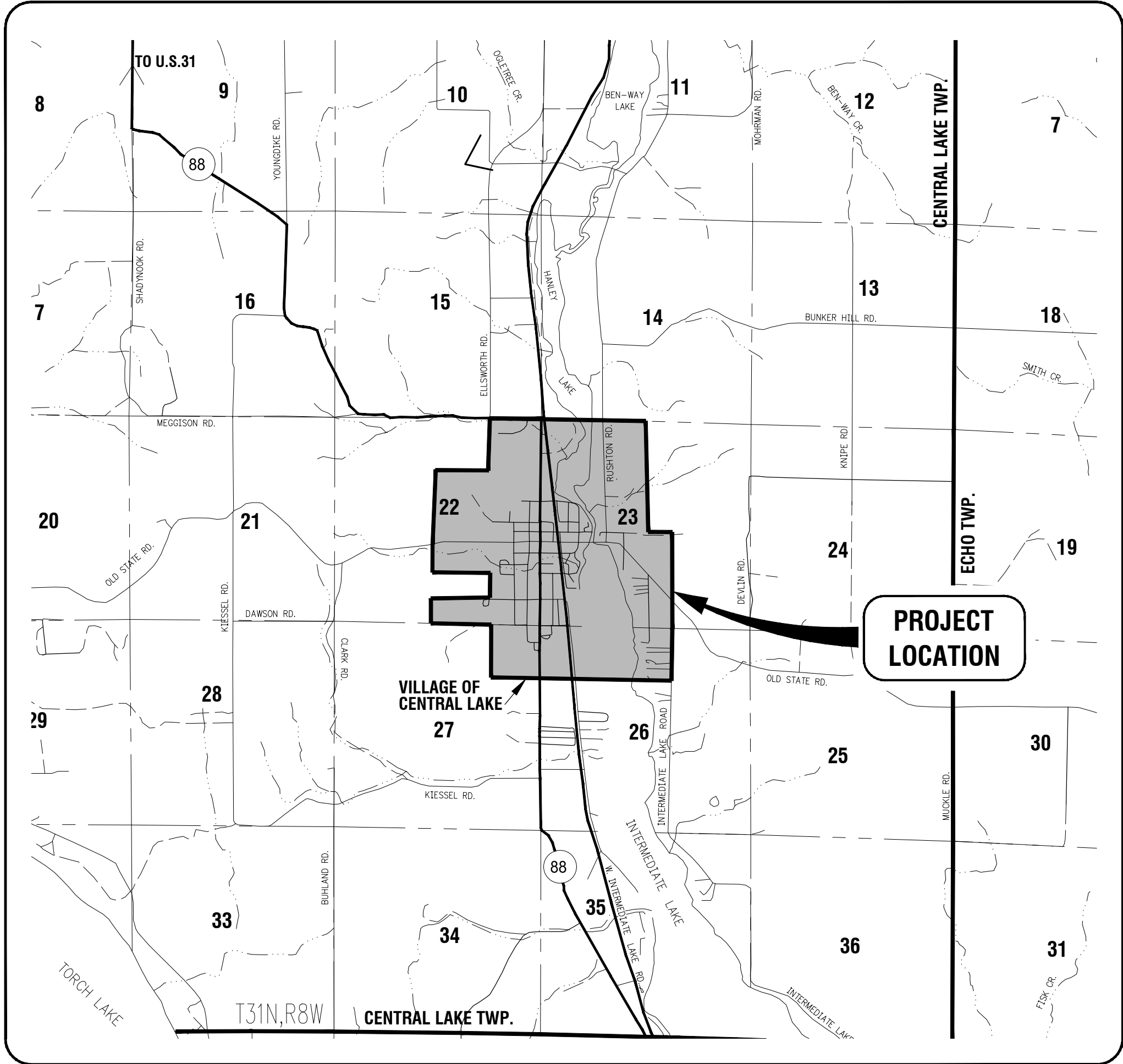
ENGINEER

ENGINEERING
SURVEYING
TESTING & OPERATIONS

1820 Oak Hollow Drive
Traverse City, MI 49686



231.946.5874 (p)
<http://gfa.tc>



SHEET INDEX

- C1.1 COVER SHEET
- C1.2 NOTE SHEET
- C1.3 EXISTING SANITARY SEWER SERVICE AREAS
- C2.1 PUMP STATION #1 PLAN AND PROFILE
- C2.2 PUMP STATION #2 PLAN AND PROFILE
- C2.3 CLUSTER PUMP SITE PLAN
- C3.1 EXISTING DRAIN FIELD SITE PLAN/FLOW METER INSTALLATION
- C4.1 EXISTING PUMP STATION #1 & #2 DETAILS
- C4.2 PUMP STATION #2 DETAILS
- C4.3 PUMP STATION #2 DETAILS
- C4.4 CLUSTER PUMP DETAILS
- C4.5 SANITARY SEWER DETAILS
- C4.6 SANITARY SEWER DETAILS

LOCATION MAP

VILLAGE OF CENTRAL LAKE, ANTRIM COUNTY, MICHIGAN
SCALE: NOT TO SCALE

PUBLIC AGENCIES AND UTILITIES

PUBLIC AGENCIES

VILLAGE OF CENTRAL LAKE Telephone: 231.544.6483	MICHIGAN DEPARTMENT OF TRANSPORTATION (M.D.O.T.) Telephone: 989.731.5090
VILLAGE OF CENTRAL LAKE D.P.W. Telephone: 231.544.2701	ANTRIM COUNTY CONSERVATION DISTRICT Telephone: 231.533.8363
ANTRIM COUNTY ROAD COMMISSION Telephone: 231.587.8521	MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (E.G.L.E.) Telephone: 517.599.1461
ANTRIM COUNTY DRAIN COMMISSION Telephone: 231.264.6800	

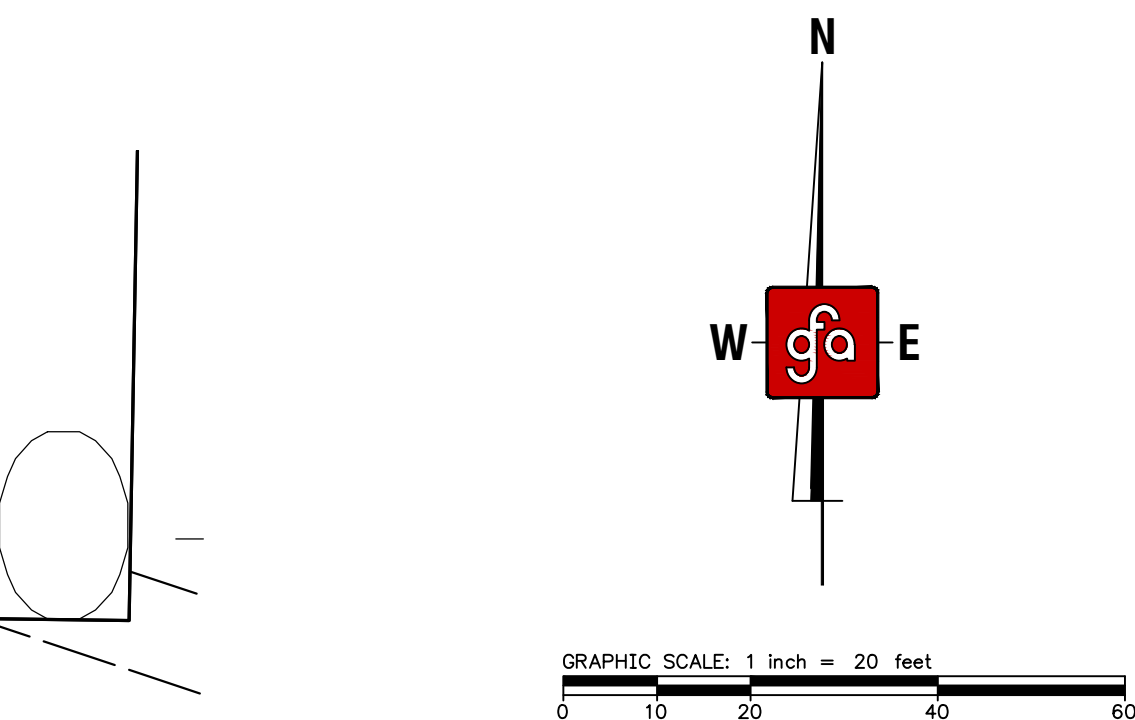
UTILITY AGENCIES

GREAT LAKES ENERGY Telephone: 231.582.6521	CHARTER COMMUNICATIONS Telephone: 231.929.7012
CONSUMERS ENERGY Telephone: 231.929.6242	AT&T MICHIGAN Telephone: 231.941.2707
DTE ENERGY Telephone: 231.592.3244	

EMERGENCY SERVICES

EMERGENCY CALLS 911	FIRE DEPARTMENTS EMERGENCY SERVICE: 911
EMERGENCY AMBULANCE SERVICE 911	Village of Central Lake: Telephone: 231.544.8003
POLICE AGENCIES EMERGENCY SERVICE: 911	MISS DIG Telephone: 1.800.482.7171
Village of Central Lake: Telephone: 231.544.6483	
Antrim County Sheriff: Telephone: 231.533.8627	
Michigan State Police: Telephone: 231.946.4646	



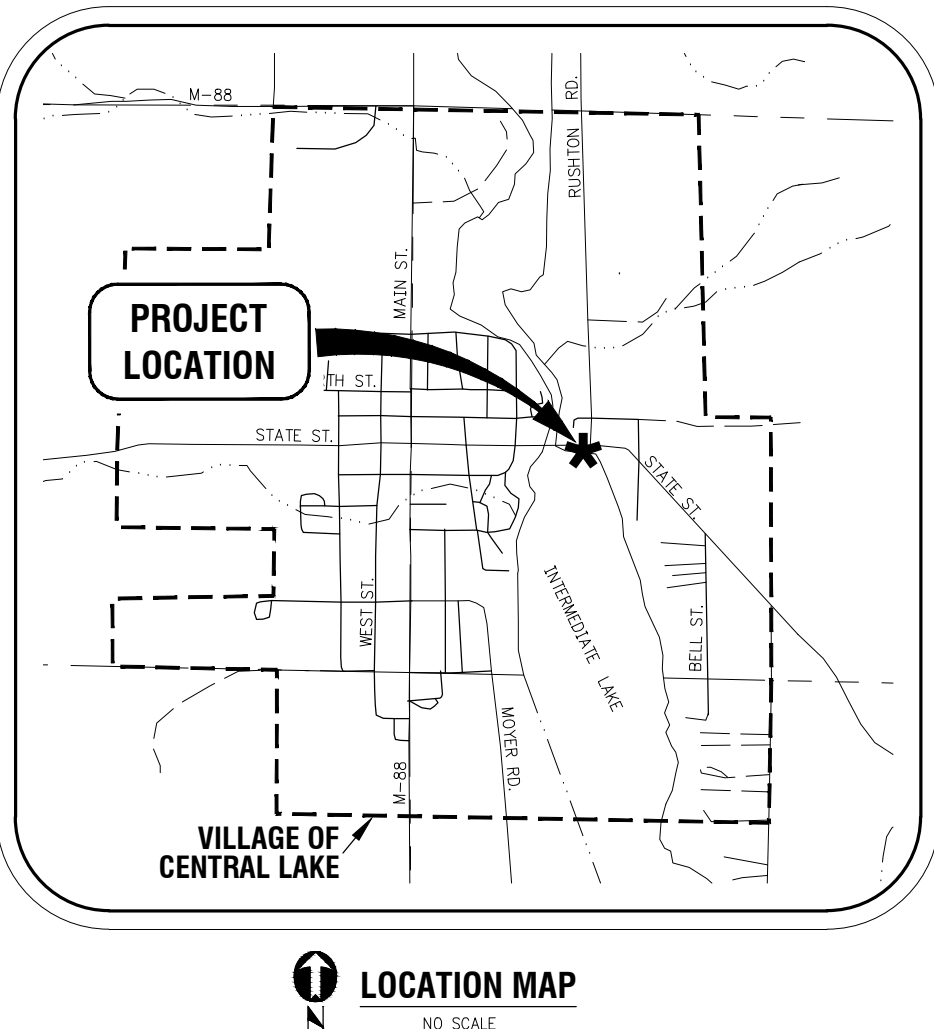


1. PUMP STATION #2 ADDRESS: 7703 EAST STATE STREET.
2. REFER TO SHEET C1.2 FOR ADDITIONAL NOTES.
3. REFER TO SHEET C4.1 FOR EXISTING STATION DETAILS.
4. REFER TO SHEET C4.3 FOR PUMP STATION AND VALVE/BY-PASS MANHOLE DETAILS.
5. LOCATION IS ADJACENT TO EXISTING PUBLIC PARK. CONTRACTOR IS RESPONSIBLE TO PROPERLY SECURE SITE AND MAINTAIN SAFETY.
6. CONTRACTOR SHALL NOT DAMAGE/REMOVE EXISTING PAVEMENT UNLESS OTHERWISE NOTED. ANY DAMAGE SHALL BE RESTORE TO PRE-CONSTRUCTION CONDITION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING PERMITS AND ASSOCIATED FEES.
8. CONTRACTOR TO PROVIDE FINAL GRADING AND RESTORATION OF SITE, INCLUDING TOPSOIL, SEED, AND MULCH, TO MATCH SURROUNDING AREA. ENSURE POSITIVE DRAINAGE AWAY FROM STATION.
9. NO BENDS GREATER THAN 45° FOR SANITARY FORCE MAIN ARE ALLOWED. FORCE MAIN TO BE INSTALLED TO MAINTAIN POSITIVE SLOPE (NO HIGH POINTS).
10. FINAL LOCATION FOR INFRASTRUCTURE LOCATED ABOVE GROUND TO BE STAKED AND COORDINATED WITH THE VILLAGE AND ENGINEER.
11. CONTRACTOR TO MAINTAIN TEMPORARY SUPPORT OF UTILITY AND SERVICE POLES THROUGHOUT CONSTRUCTION. COORDINATE WITH UTILITY COMPANY FOR FINAL SUPPORT OF UTILITY POLES.
12. EXISTING ELECTRICAL SERVICE: 100A, 1Ø, 240V
13. PROPOSED ELECTRICAL SERVICE: 200A, 1Ø, 240V
14. NATURAL GAS SERVICE FOR GENERATOR TO BE EXTENDED FROM NEAREST AVAILABLE UTILITY AS COORDINATED WITH OTE THROUGH ALLOWANCE.

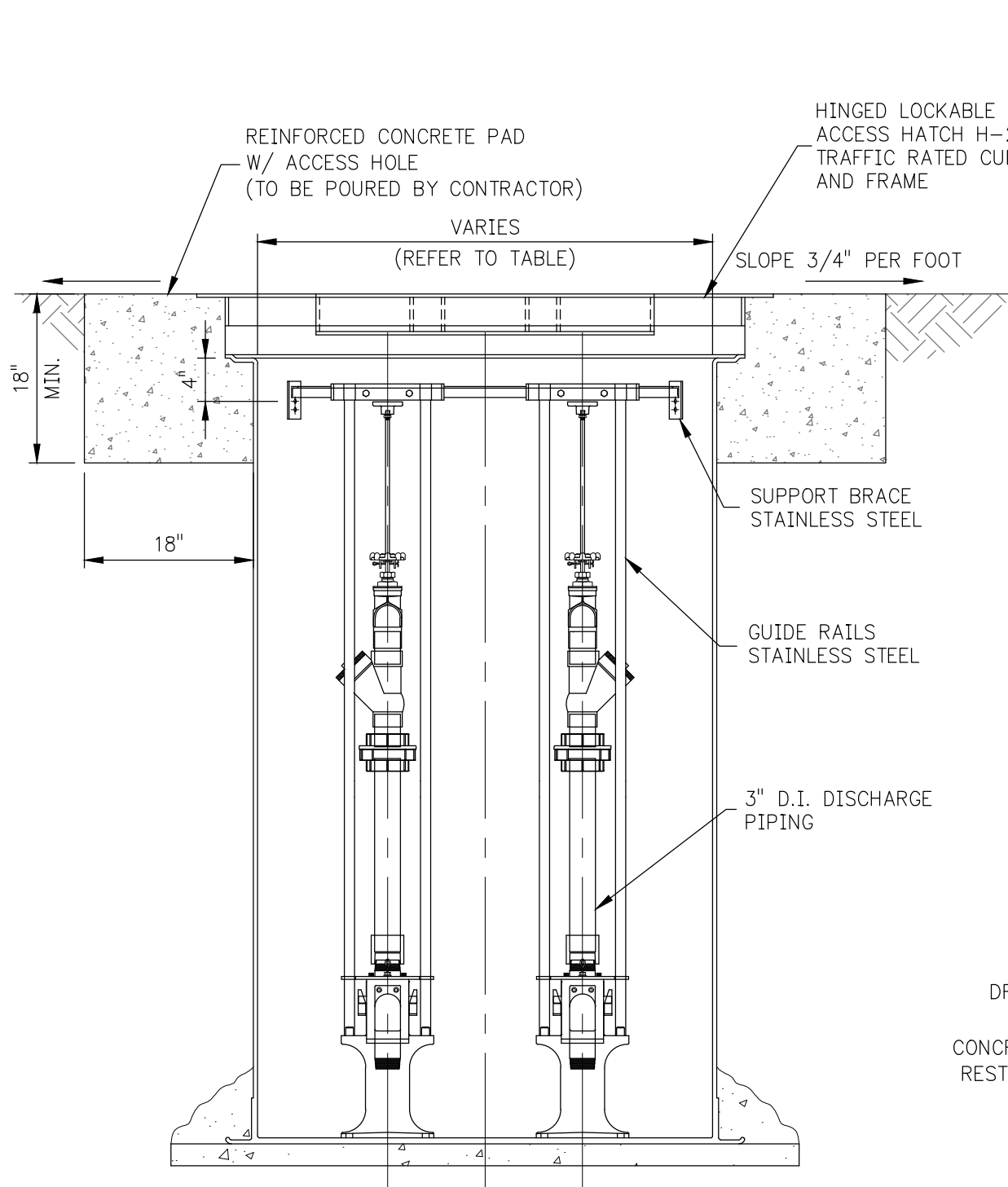
1. CONTRACTOR TO PROVIDE ABANDONMENT PROCEDURES INCLUDING BY-PASS PLAN PRIOR TO START OF WORK FOR VILLAGE DPW AND ENGINEER REVIEW/APPROVAL.
2. BY-PASS PUMPING IS REQUIRED FOR ALL PIPES ENTERING THE EXISTING WET WELL.
3. VALVE OPERATION TO BE PERFORMED BY VILLAGE/DPW STAFF ONLY.
4. CONTRACTOR TO REMOVE PUMPS, MOTORS, PIPE, FITTINGS, ELECTRICAL VALVES ETC. WITHIN THE WET WELL. IF REQUESTED, SALVAGE AND DELIVER TO OWNER, OTHERWISE CONTRACTOR TO PROPERLY DISPOSE OF AT NO ADDITIONAL COST TO THE PROJECT. CONTRACTOR TO REMOVE WET WELL STRUCTURE.
5. VENTS SHALL BE REMOVED WITH WET WELL STRUCTURE.
6. ALL STRUCTURES TO BE CUT 48" BELOW GRADE PRIOR TO FILL.
7. CONTRACTOR TO UTILIZE FLOWABLE FILL TO TOP OF PIPES AND FILL REMAINDER WITH SAND, INCLUDING WET WELL.
8. BY-PASS VALVES TO BE PLACED IN CLOSED POSITION AND BOXES/STEMS REMOVED.
9. TEMPORARY POWER SUPPLY MAY BE REQUIRED AND TO BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. WATER SUPPLY IS AVAILABLE FOR TESTING AS COORDINATED WITH THE DPW. CONTRACTOR SHALL OBTAIN PERMIT, FEE, PAYMENT AND BACKFLOW PREVENTION.
10. ELECTRICAL UPGRADES INCLUDING REMOVAL/DISCONNECTION OF EXISTING AND INSTALLATION OF NEW, INCLUDING METER, TO BE PROVIDED BY CONTRACTOR AS COORDINATED WITH CONSUMERS ENERGY, INCLUDING ALL ASSOCIATED PERMITS AND FEES THROUGH ALLOWANCE.
11. NATURAL GAS SERVICE INSTALLATION INCLUDING METER, SERVICE EXTENSION AND CONNECTION TO BE PROVIDED BY CONTRACTOR AS COORDINATED WITH DTE, INCLUDING ALL ASSOCIATED PERMITS AND FEES THROUGH ALLOWANCE.

SB #4
0-6" TOPSOIL
6"-2' SANDY GRAVEL
BORING STOPPED BY ROCKS @ 2'

SB #11
0-5" FINE MEDIUM SAND
5"-50" MEDIUM SAND, WET
6" WATER TABLE ENCOUNTERED

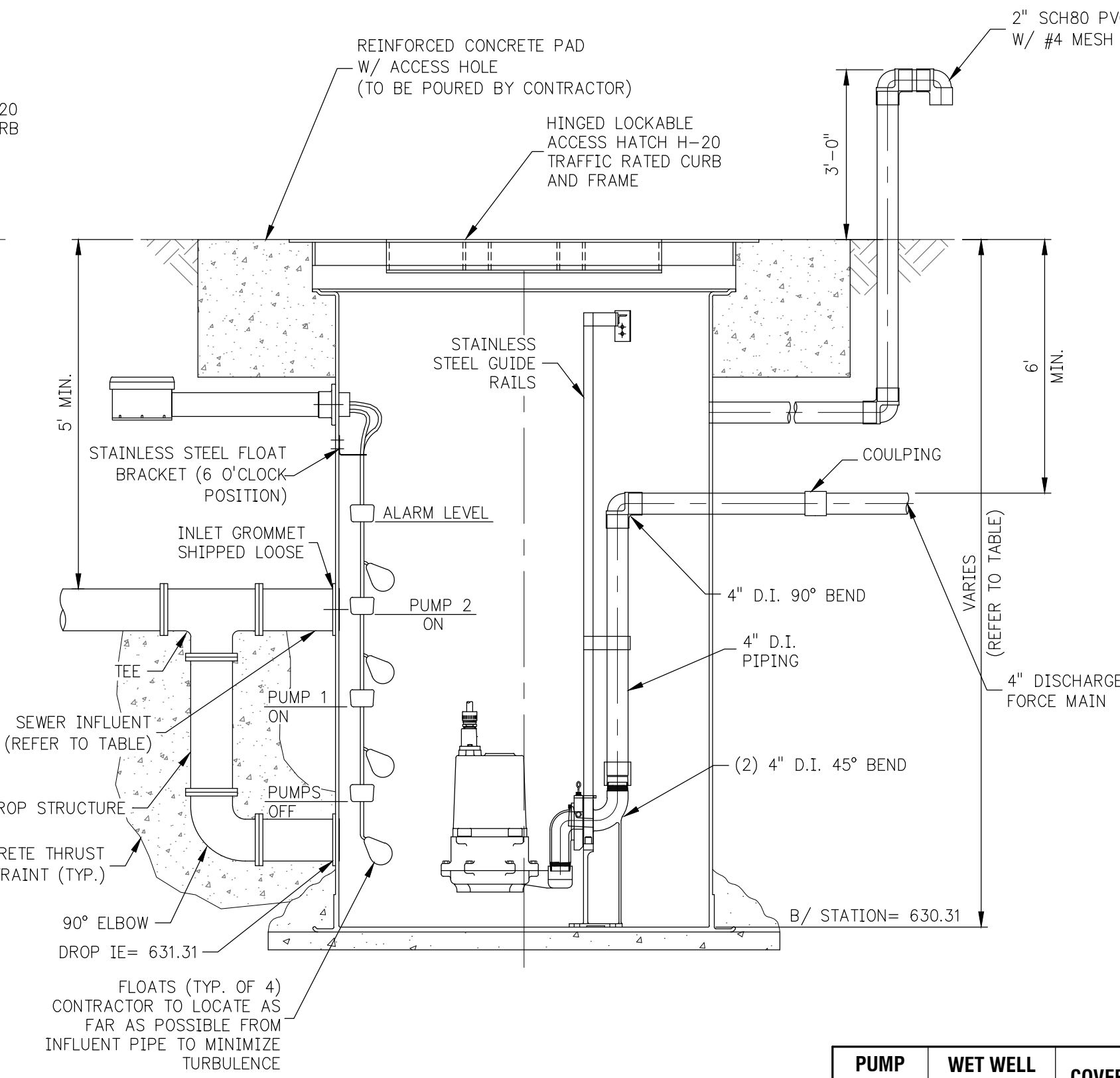


1. PROJECT: VILLAGE OF CENTRAL LAKE, SANITARY SEWER SYSTEM IMPROVEMENTS. 2. DRAWING: PUMP STATION #1 DETAILS. 3. DATE: 08/17/2024. 4. SCALE: AS SHOWN.



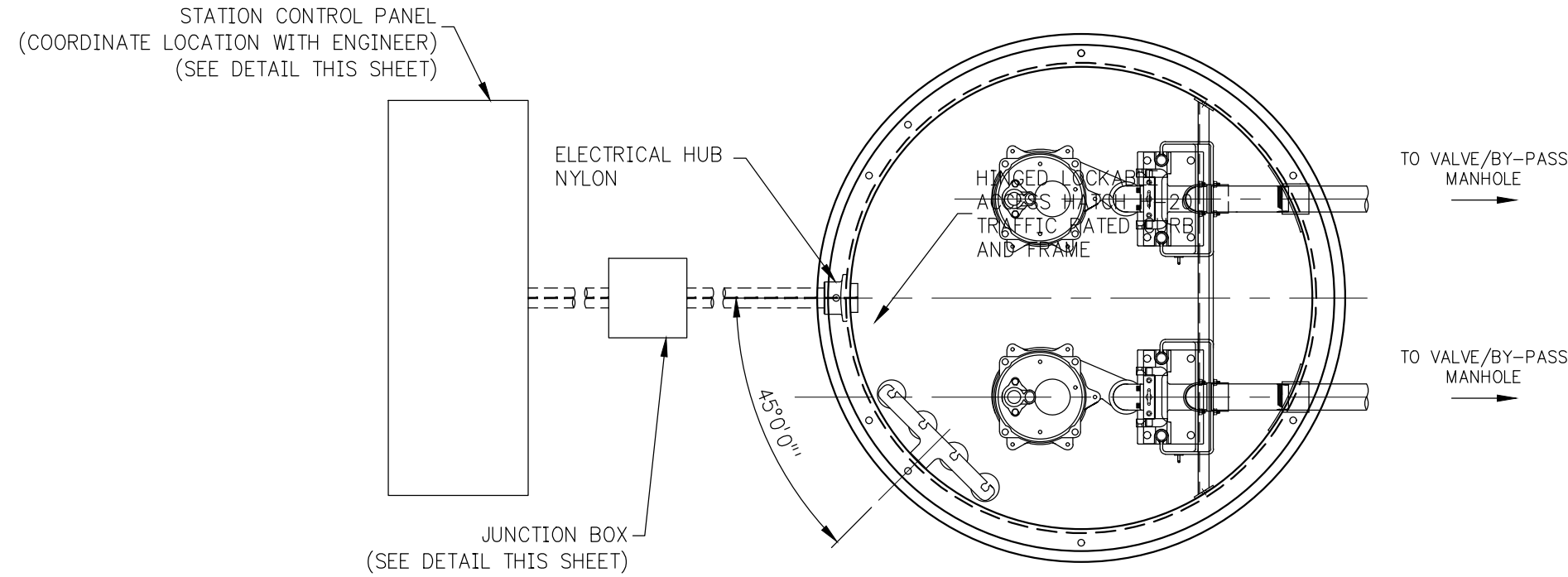
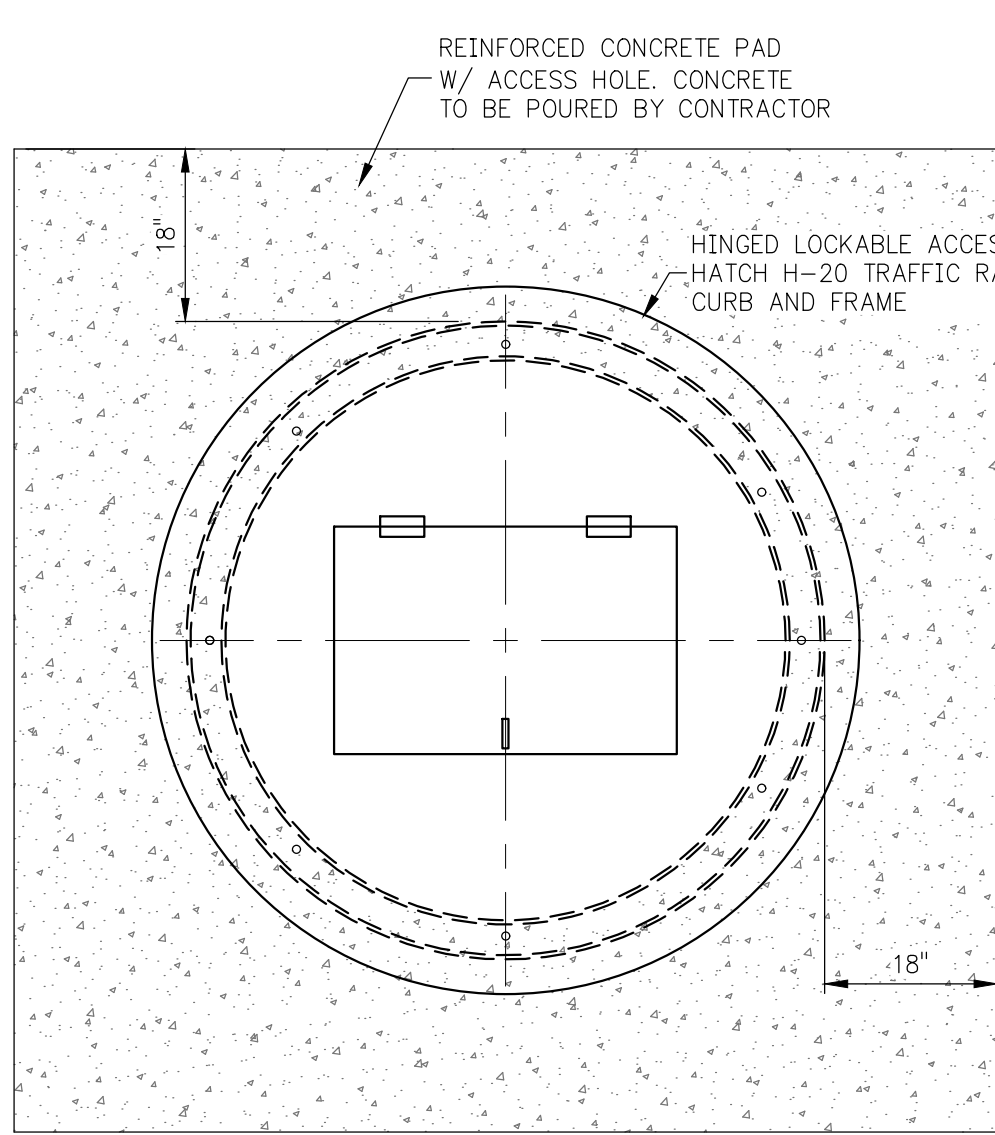
PUMP STATION SECTION

SCALE: NOT TO SCALE



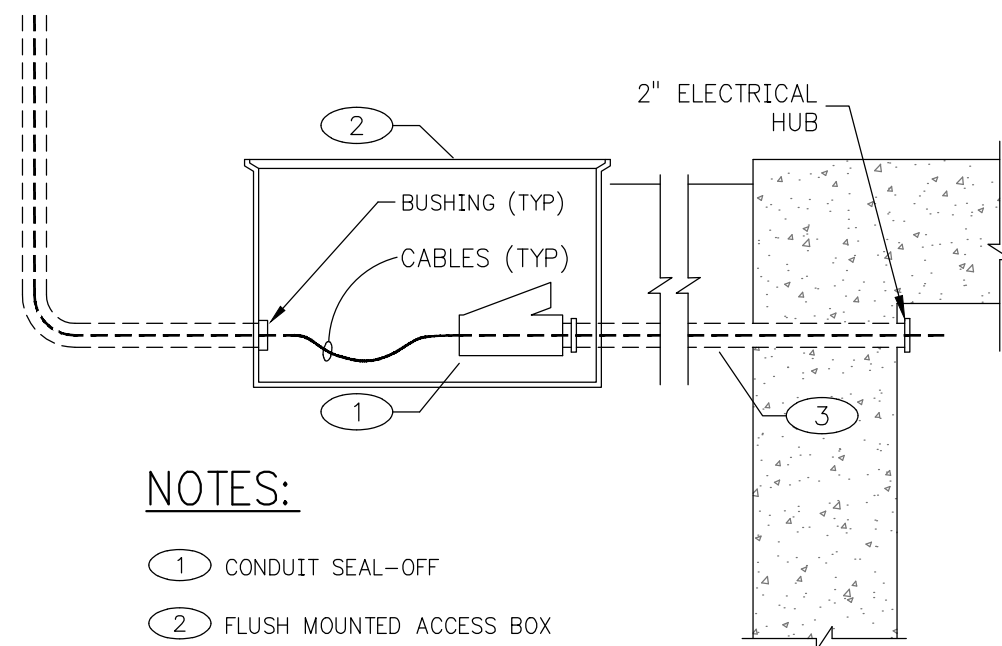
PUMP STATION PLAN VIEW

SCALE: NOT TO SCALE



PUMP STATION PLAN VIEW

SCALE: NOT TO SCALE



JUNCTION BOX DETAIL

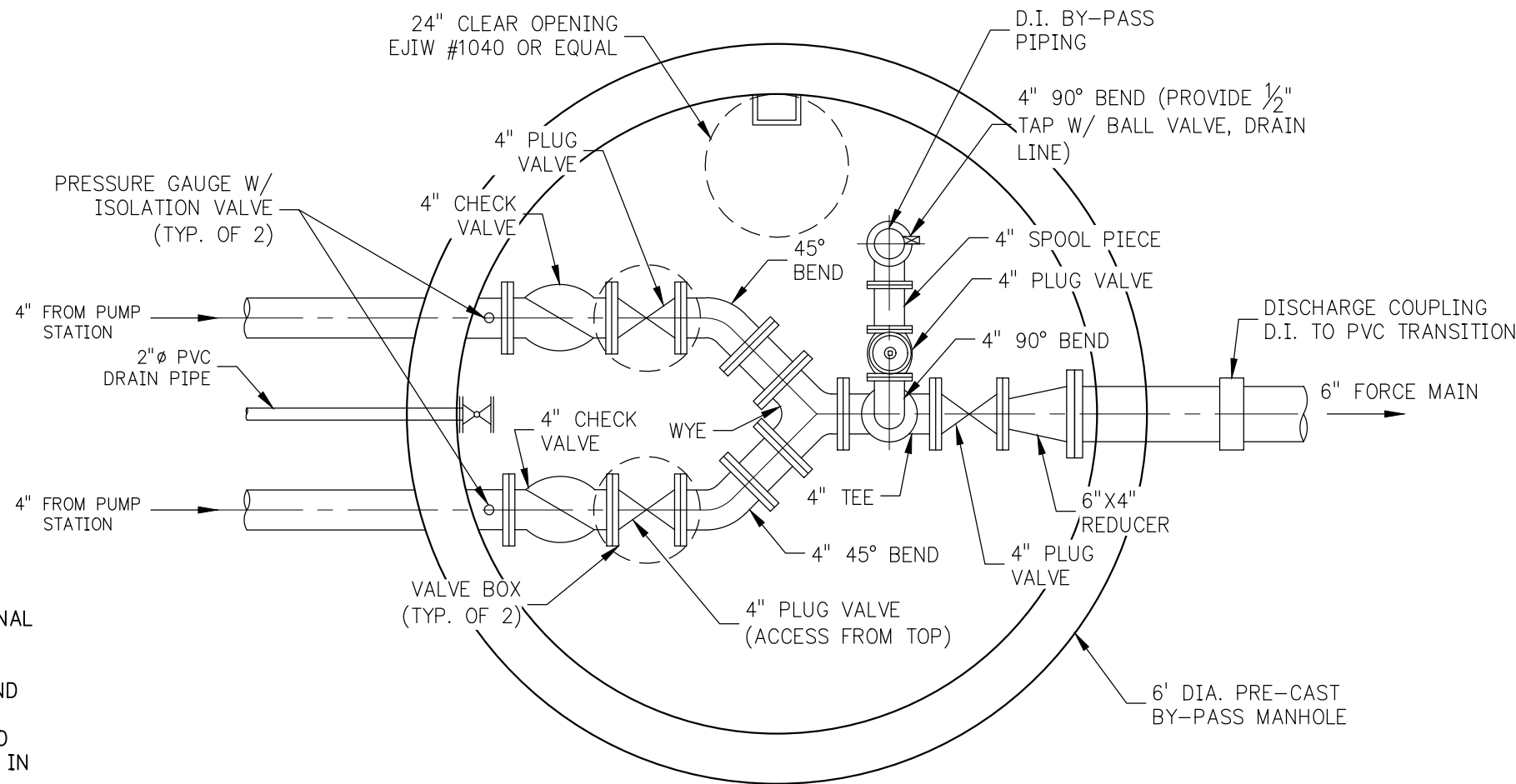
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NOTES:

- CONDUIT SEAL-OFF
- FLUSH MOUNTED ACCESS BOX
- RIGID CONDUIT FOR GROUND WIRE. CONTRACTOR RESPONSIBLE TO SIZE TO MEET LOAD REQUIREMENTS.

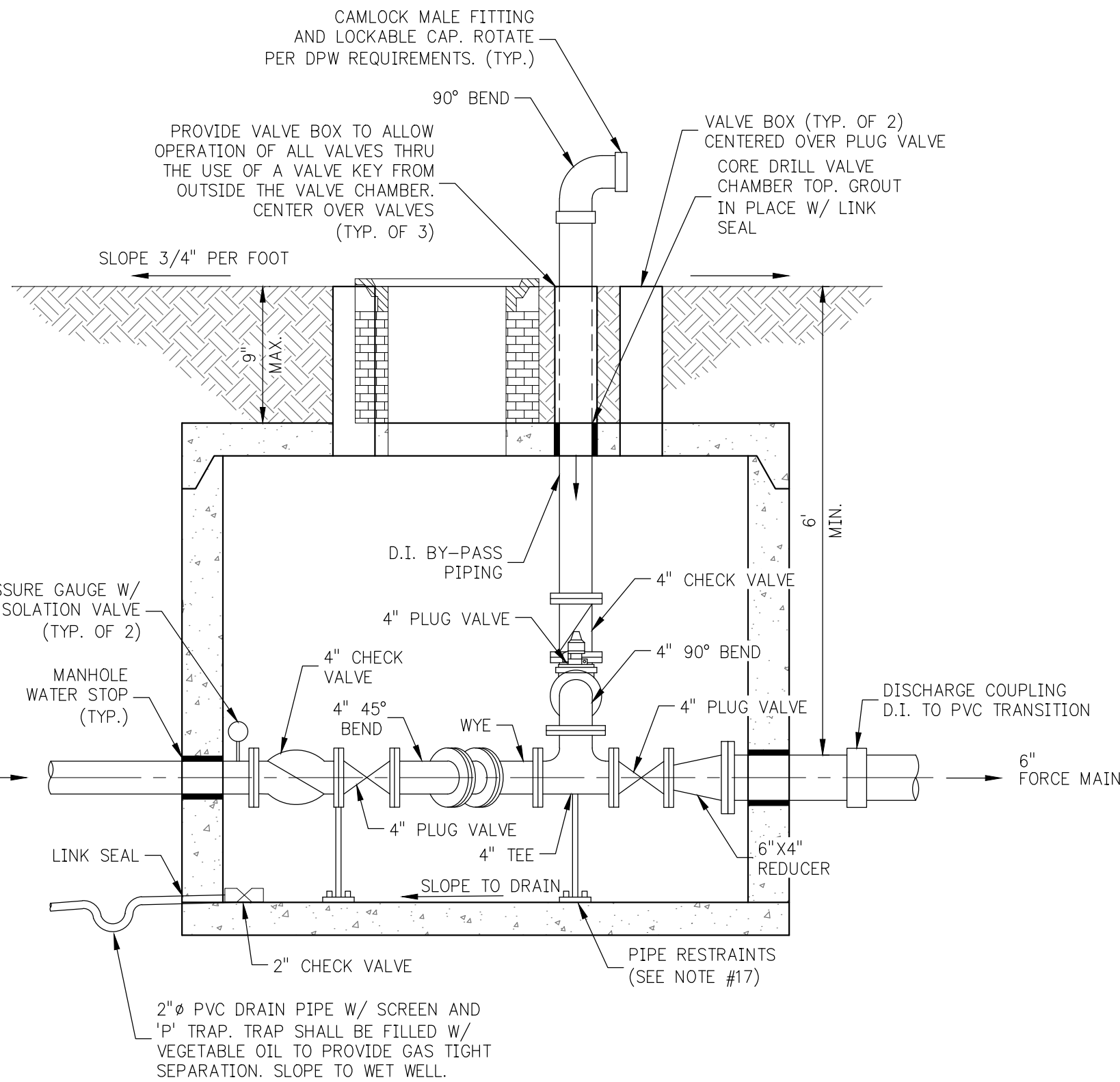
PUMP STATION #1 NOTES

- STATION PACKAGE SHALL BE DUPLEX STATION AS SUPPLIED BY KERR PUMP AND SUPPLY, OR ENGINEER APPROVED EQUAL AND INCLUDE: (REFER TO SPECIFICATION 12 FOR ADDITIONAL DETAILS)
 - FIBERGLASS SUMP AND 24" MIN. ACCESS OPENING AND COVER.
 - EXPLOSION PROOF SUBMERSIBLE PUMPS, IEEE RATED
 - E-Z OUT GUIDE RAILS
 - CONTROL SYSTEM:
 - AUTOMATIC WITH FOUR (4) FLOATS
 - MANUAL INDEPENDENT OF FLOATS
 - LEVEL TRANSDUCER
 - LEAD/LAG ALTERNATION
 - AUDIBLE/VISUAL ALARM SYSTEM:
 - PUMP FAILURE
 - HIGH WATER LEVEL
 - POWER FAILURE
 - SEAL FAILURE
 - CONTROL PANEL, LOCKABLE NEMA 3R ENCLOSURE:
 - MAIN DISCONNECT
 - VFD
 - REMOTE TELEMETRY UNIT (RTU)
 - VOLTAGE RELAYS AND OVERLOAD PROTECTION (SURGE SUPPRESSION)
 - H-O-A SWITCHES
 - CONTROL CIRCUIT BREAKER
 - GFI RECEPTACLE
 - ELAPSED TIME METERS
 - SPACE HEATER W/ THERMOSTAT
 - AUTOMATIC TRANSFER SWITCH
 - APPLICABLE FUSES, CIRCUIT BREAKERS, SWITCHES AND RELAYS
 - EXTERIOR IN-GRADE JUNCTION BOX
 - INTERNAL DISCHARGE PIPING
 - O&M MANUALS, START-UP, AND WARRANTY PER SPECIFICATIONS
- PUMP TANK AND ALARM LEVELS SHALL BE DETERMINED AT THE TIME OF INSTALLATION BASED UPON TANK LOCATIONS AND SEWER LEAD CONNECTIONS. CONTRACTOR SHALL COORDINATE WITH ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL SERVICE INCLUDING METER BASE INSTALLATION TO CONTROL PANEL AS COORDINATED WITH UTILITY COMPANY AND ENGINEER AND SIZED APPROPRIATELY TO SERVICE STATION.
- VARIABLE FREQUENCY DRIVE TO BE USED FOR PUMP MOTOR PHASE CONVERSION AND TO BE SUPPLIED BY STATION PACKAGE SUPPLIER.
- PROPOSED PUMPS HAVE BEEN SELECTED BASED ON ASSUMPTIONS OF EXISTING SEWER MAIN DEPTHS AND LOCATIONS. DURING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH ENGINEER AND OWNER TO ADJUST PUMPS AS NECESSARY BASED UPON FIELD INFORMATION.
- WET WELL CHAMBER IS CLASSIFIED AS CLASS I, DIVISIONS I, GROUP D. VALVE/BY-PASS MANHOLE IS CLASS I, DIVISION 2, GROUP D.
- ALL WET WELL CONTROLS, FLOATS, AND WIRING SHALL BE INTRINSICALLY SAFE.
- INTRINSICALLY SAFE CIRCUITS SHALL BE ISOLATED FROM NON-INTRINSICALLY SAFE CIRCUITS PER NEC.
- ALL CONDUITS, JUNCTION BOXES, CABLE PENETRATIONS, STRUCTURAL MOUNTS, ETC. SHALL BE SEALED OFF IN ACCORDANCE WITH NEC ARTICLE 500 TO SEPARATE THE WET WELL FROM THE CONTROL PANEL. SEAL LOCATIONS RELATIVE TO JUNCTION BOXES SHALL BE PER NEC.
- ALL ELECTRICAL EQUIPMENT, WIRING, AND METHODS WITHIN THE WET WELL SHALL BE SUITABLE FOR CLASS I, GROUP D, DIVISION 1 LOCATION AND SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.
- CONTROL PANEL SHALL BE UL 698A LISTED NEMA 3R AND CONSTRUCTED IN ACCORDANCE WITH APPLICABLE NEC AND NFPA STANDARDS.
- SUBMERSIBLE PUMP MOTOR CORDS SHALL BE DESIGNED FOR FLEXIBILITY AND SERVICEABILITY UNDER CONDITIONS OF EXTRA HARD USAGE AND SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE FOR FLEXIBLE CORDS IN WASTE WATER PUMP STATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING FOUR (4) SPARE PUMPS, MOTORS, AND MECHANICAL SEALS AT NO ADDITIONAL COST TO THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY WATER TABLE AND COORDINATE WITH ENGINEER FOR BUOYANCY TO ADJUST BALLAST VOLUME AND INSTALL AS NECESSARY AT NO ADDITIONAL COST TO THE PROJECT. EXTERNAL CONCRETE BALLAST SHALL BE PROVIDED IN ADDITION TO INTEGRAL BASE.
- ELECTRICAL SERVICE, JUNCTION BOX, METER BASE, AND ANY OTHER EQUIPMENT PROVIDING POWER AND/OR GAS TO THE CONTROL PANEL, INCLUDING INSTALLATION OF SHALL BE COORDINATED WITH CONSUMERS ENERGY AND PUMP STATION SUPPLIER.
- NATURAL GAS SERVICE, AND ANY ASSOCIATED EQUIPMENT PROVIDING NATURAL GAS TO THE GENERATOR, INCLUDING INSTALLATION OF SHALL BE COORDINATED WITH DTE, GENERATOR SUPPLIER AND PUMP STATION SUPPLIER. ALL WORK RELATED TO NATURAL GAS SERVICE SHALL BE INCLUDED AS PART OF THE ALLOWANCE ON BID TAB.
- STAINLESS STEEL TO BE USED FOR ALL ANGLE IRON, PLATES, BRACKETS, AND FITTINGS INSIDE PUMP STATION AND VALVE VAULT. ALL CONDUIT TO BE LISTED CORROSIVE RESISTANT AND RIGID.
- ALL INTERNAL PIPING/VALVES WITHIN VALVE/BY-PASS MANHOLE, AND BETWEEN TO BE FLANGED DUCTILE IRON AND PAINTED COMPLIANT WITH SPECIFICATIONS. VAULT TO BE WATERPROOFED W/ TNEC PERMAGLAZE OR EQUAL.
- STATION TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO AVOID WARRANTY ISSUES.
- CONTRACTOR SHALL INSTALL ALL PIPING/CONDUIT RESTRAINTS AND SECURELY ANCHOR AS NECESSARY TO PROVIDE A RIGID STRUCTURE.
- MANUFACTURER SHALL INSTALL A CONCRETE FLOOR (FILLET BOTTOM) WITH A MINIMUM SLOPE OF 1:1 TO THE HOPPER BOTTOM WITHIN WET WELL. THE HORIZONTAL AREA OF THE HOPPER BOTTOM SHALL BE NO GREATER THAN NECESSARY FOR PROPER INSTALLATION AND FUNCTION OF THE INLET.
- BALLAST/ANTI-FLOTATION DEVICES ARE TO BE PROVIDED, AS REQUIRED TO RESIST BUOYANCY FORCES EQUIVALENT TO A FULLY SUBMERGED STATION, AS RECOMMENDED BY MANUFACTURER AND APPROVED BY THE ENGINEER. CONTRACTOR TO VERIFY WATER TABLE AND COORDINATE WITH ENGINEER SIZING OF BALLAST PRIOR TO INSTALLATION.
- CONTRACTOR TO COORDINATE LOCATION OF FLOAT / TRANSDUCER TUBE AND SETTINGS WITH VILLAGE DPW.
- ELECTRICAL WIRING IS SHOWN FOR BIDDING PURPOSES. CONTRACTOR IS RESPONSIBLE TO ENSURE PROPER SIZING AT NO ADDITIONAL COST TO THE PROJECT.
- ALL CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 40. ALL CONDUIT INSTALLED WITHIN PUMP STATION SHALL AND VALVE VAULT BE GRC (CORROSION RESISTANT & RIGID) AND SEALED TIGHT TO EQUIPMENT.
- ALL CONDUCTORS TO BE THHN COPPER.
- INTRINSICALLY SAFE CIRCUITS SHALL BE ISOLATED FROM NON-INTRINSICALLY SAFE CIRCUITS PER NEC.



VALVE/BY-PASS MANHOLE PLAN VIEW

SCALE: NOT TO SCALE



VALVE/BY-PASS MANHOLE SECTION

SCALE: NOT TO SCALE

**VILLAGE OF CENTRAL LAKE
SANITARY SEWER SYSTEM IMPROVEMENTS
PUMP STATION #1 DETAILS
SECTION 22 & 23, T. 31 N., R. 8 W.
VILLAGE OF CENTRAL LAKE, ANTRIM COUNTY, MICHIGAN**

DESIGNED BY: JENNIFER HODGES, P.E.
CHECKED BY: C. BALLANCE
DATE: 08/17/2024
SCALE: 1" = 10'-0"

**21006
C4.2**

ENGINEERING
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TESTING & OPERATIONS
1820 Oak Hollow Drive
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<http://gfa.io>



231.946.5874 (p)
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These documents are prepared in accordance with the contractual terms and conditions for this project.