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August 14, 2025

Submitted via electronic mail

Mr. Brian Rath  
Land Quality Bureau  
Iowa Department of Natural Resources  
6200 Park Ave, Suite 200  
Des Moines, IA 50321

**Subject: Permit Amendment Request for Underdrain Routing Modifications  
Interstate Power and Light Company Ottumwa Midland Landfill (OML)  
Permit #90-SDP-8-92P**

Dear Mr. Rath,

On behalf of Interstate Power and Light Company (IPL), Alliant Energy is submitting the enclosed drawings prepared by SCS Engineers (SCS) to re-route underdrain flows at the Ottumwa Midland CCR Landfill (OML) in Ottumwa, Iowa. IPL respectfully requests Department review and approval of this narrative and drawings as a Permit Amendment for Sanitary Disposal Project Permit #90-SDP-8-92P.

OML currently operates two separate underdrain systems beneath the liners of the two cells that contain waste at the site, the Existing Phase (GU-EX) and the Phase 1 expansion (GU-1). Currently, the GU-1 underdrain system gravity drains to an outfall that is collected and hauled to the City of Ottumwa Water Pollution Control Facility (WPCF). GU-EX gravity drains to the existing GU-EX lift station, where it is pumped south across 130<sup>th</sup> Street, collected, and hauled to the WPCF.

The enclosed engineer design drawings summarize proposed site modifications for consolidation of existing underdrain flows from points GU-1 and GU-EX into a single point for future discharge. The underdrain system as currently installed under the Existing Phase and Phase 1 expansion cells will continue to operate as originally designed. The gravity flow from the underdrains will combine into the existing GU-EX lift station, be passed through any treatment device as needed to meet surface water quality standards, and then pumped across 130<sup>th</sup> Street for discharge to the adjacent wetland complex.

The main components of the project include the following:

1. Installation of a lift station at GU-1,

August 14, 2025

2. Installation of a force main between the new GU-1 lift station and existing GU-EX lift station,
3. Tying in the new GU-1 force main into the existing GU-EX lift station,
4. Installation of a water treatment enclosure, and
5. Routing the existing force main from the existing GU-EX lift station through the proposed water treatment enclosure for discharge at the existing outfall structure.

An isolation valve between the existing GU-EX underdrain gravity main and the existing GU-EX lift station is also proposed (on drawings as VMH-1). This isolation valve will be used to allow the existing GU-EX lift station and loadout to be used for pumping water from the storm water sedimentation basin without addition of groundwater from the underdrain system. Piping and an isolation valve between the storm water sedimentation basin and the existing GU-EX lift station already exists as part of the current approved design.

Please note that the current approved design for future OML Phases 2, 5, and 6 include underdrain systems. Any modifications to the routing of those future underdrains will be submitted to the Department for review and approval as needed to accommodate these additional future underdrain flows.

For completeness, the drawings include proposed water treatment prior to discharge to the environment. With this submittal, IPL does not request review and approval of the wastewater treatment and discharge portions of the project. IPL will seek approvals from the IDNR Wastewater Construction Department under work Record No. W2025-0026A to ensure that treatment prior to discharge is designed and operated appropriately.

Should the Department require additional information in its review of this request, please contact me at (608) 458-3853.

Sincerely,



Jeff Maxted  
Manager – Environmental Services  
Alliant Energy Corporate Services, Inc.  
*On behalf of IPL*

CC: Emmanuel Nathi (IDNR)  
Martin Lamb, Matt Loehr (IPL)  
Eric Nelson (SCS)

*Enclosures*



GROUNDWATER UNDERDRAIN FORCE MAIN  
OTTUMWA MIDLAND LANDFILL  
SANITARY DISPOSAL PROJECT PERMIT #90-SDP-08-92P  
15300 130TH STREET  
OTTUMWA, IOWA

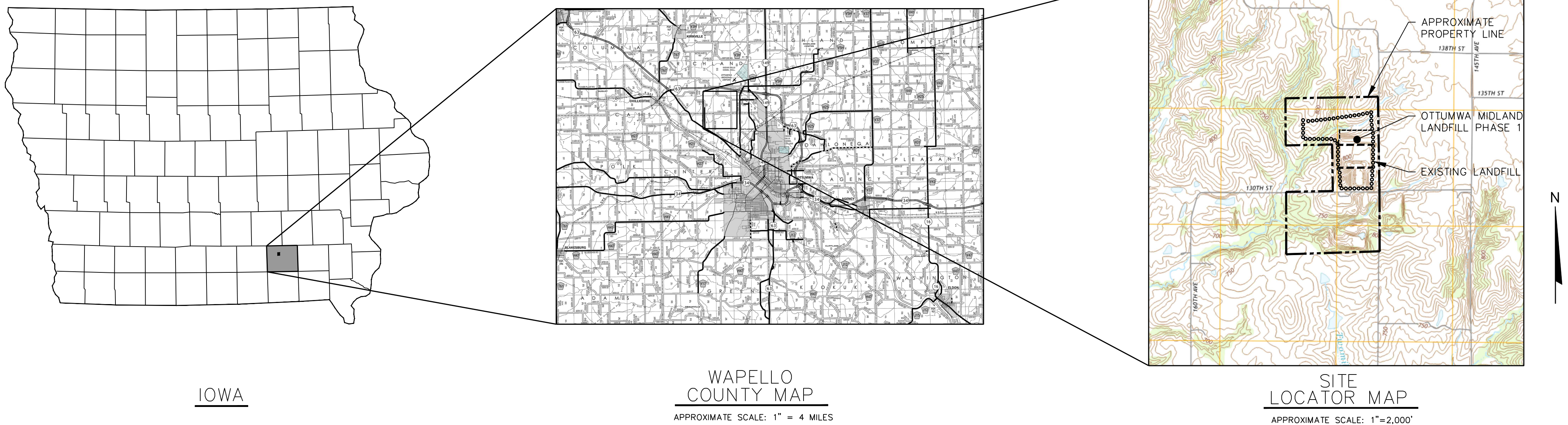
PREPARED FOR: INTERSTATE POWER AND LIGHT COMPANY  
OTTUMWA, IOWA

PREPARED BY: SCS ENGINEERS  
MADISON, WISCONSIN

DATE: JULY 2025

INDEX

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|                                                                                                      |             |             |              |    |
|------------------------------------------------------------------------------------------------------|-------------|-------------|--------------|----|
| SCS ENGINEERS<br>2830 DAIRY DRIVE, MADISON, WI 53718-6751<br>PHONE: (608) 224-2830                   | PROJECT NO. | 25224149.00 | DRAWN BY:    | KP |
|                                                                                                      | DRAWN       | 07/08/2025  | CHECKED BY:  | RH |
|                                                                                                      | REVISED     | 07/10/2025  | APPROVED BY: | MS |
| INTERSTATE POWER AND LIGHT COMPANY<br>15300 130TH STREET<br>OTTUMWA, IOWA 52501                      |             |             |              |    |
| CLIENT                                                                                               |             |             |              |    |
| GROUNDWATER UNDERDRAIN FORCE MAIN<br>OTTUMWA MIDLAND LANDFILL<br>15300 130TH STREET<br>OTTUMWA, IOWA |             |             |              |    |
| ENGINEER                                                                                             |             |             |              |    |
| SITE                                                                                                 |             |             |              |    |
| TITLE SHEET                                                                                          |             |             |              |    |
| SHEET<br>1 of 7                                                                                      |             |             |              |    |



|  |                                                   |
|--|---------------------------------------------------|
|  | APPROXIMATE OTUMWA MIDLAND LANDFILL PROPERTY LINE |
|  | APPROXIMATE RIGHT-OF WAY/PROPERTY LINE            |
|  | GROUND SURFACE (10' CONTOUR)                      |
|  | GROUND SURFACE (2' CONTOUR)                       |
|  | UNPAVED ROAD                                      |
|  | PAVED ROAD                                        |
|  | OML SITE STREAM                                   |
|  | OML SITE DRAINAGE SWALE                           |
|  | OML SITE WATER                                    |
|  | OML SITE WETLAND                                  |
|  | FENCE                                             |
|  | APPROVED LIMITS OF WASTE                          |
|  | PHASE LIMIT                                       |
|  | OVERHEAD UTILITY                                  |
|  | BURIED TELEPHONE LINE                             |
|  | WATER MAIN                                        |
|  | FORCEMAIN                                         |
|  | LEACHATE GRAVITY LINE                             |
|  | UNDERDRAIN GRAVITY LINE                           |
|  | STORM WATER PIPE                                  |
|  | RIPRAP                                            |
|  | CULVERT                                           |
|  | TELEPHONE PEDESTAL                                |
|  | UTILITY POLE                                      |
|  | WATER VALVE                                       |
|  | MW20 MONITORING WELL                              |
|  | MW2 ABANDONED MONITORING WELL                     |
|  | TP202 TEST PIT                                    |
|  | B106 BORING                                       |
|  | SW-1 STAFF GAUGE                                  |
|  | SM#1 CONTROL MONUMENT                             |
|  | LP-1 LEACHATE HEADWELL                            |
|  | CULVERT                                           |
|  | EXISTING WET WELL DUPLEX PUMPING STATION          |
|  | WETLAND                                           |
|  | 100-YEAR FLOODPLAIN                               |
|  | WATER                                             |
|  | PROPOSED UNDERDRAIN GROUNDWATER FORCE MAIN        |
|  | PROPOSED STORAGE POND OUTLET PIPE                 |
|  | PROPOSED STORM WATER FORCE MAIN                   |
|  | PROPOSED UNDERGROUND ELECTRIC                     |
|  | PROPOSED CLEANOUT AND GATE VALVE                  |
|  | PROPOSED AIR RELEASE VALVE AND CLEANOUT           |
|  | PROPOSED PERMANENT EASEMENT                       |
|  | PROPOSED TEMPORARY CONSTRUCTION EASEMENT          |
|  | PROPOSED MONITORING WELL (BY OTHERS)              |
|  | PROPOSED SECURITY FENCE                           |
|  | PROPOSED SILT FENCE/FILTER SOCK                   |
|  | PROPOSED SEDIMENT LOG CHECK DAM                   |
|  | PROPOSED SILT CURTAIN (HANGING)                   |
|  | B1 2024 GEOTECHNICAL BORINGS                      |

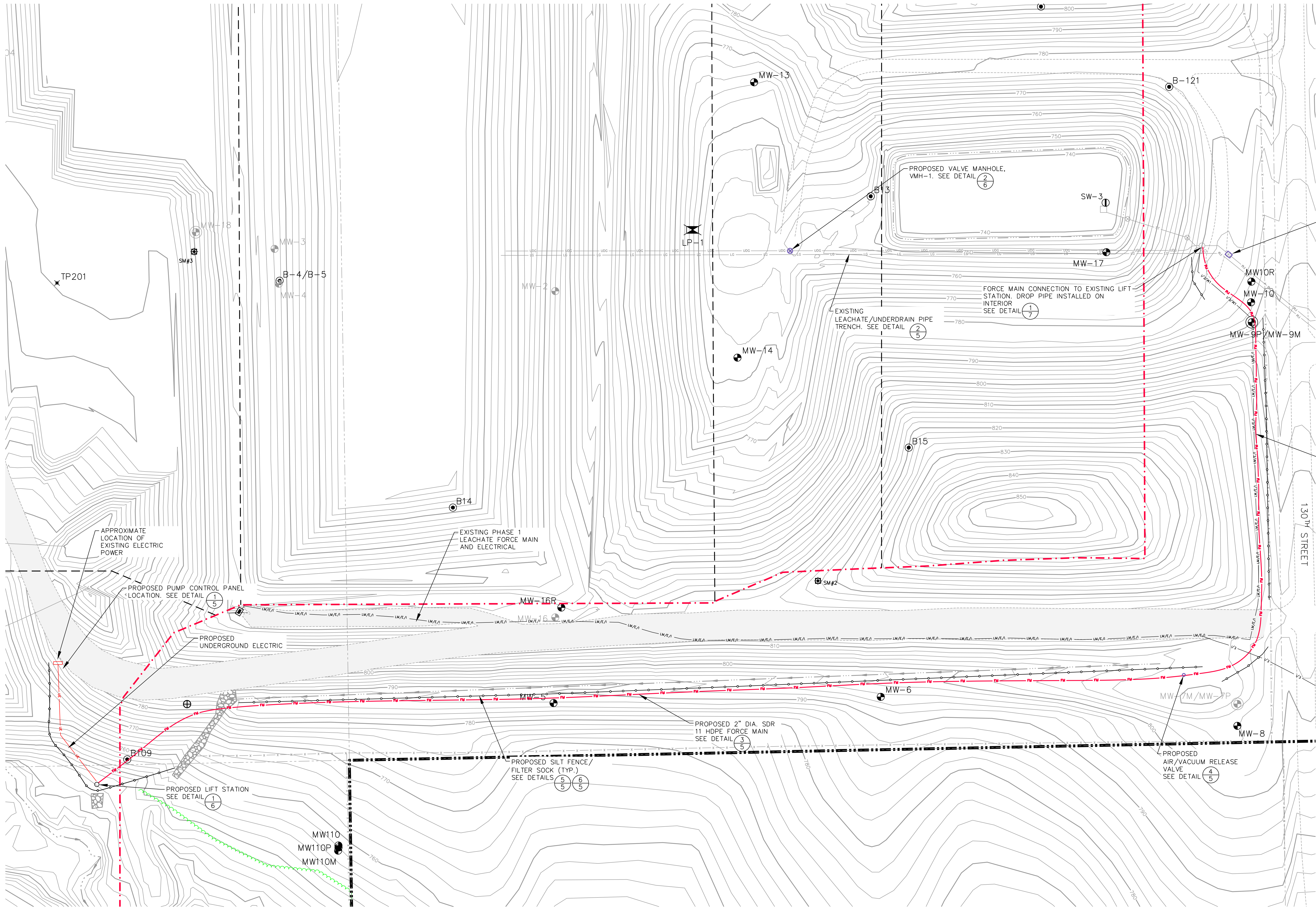
1. TOPOGRAPHIC BASE MAP WAS COMPILED FROM IOWA DEPARTMENT OF NATURAL RESOURCES GENERALIZED TWO FOOT CONTOURS OF WAUKESHA COUNTY IOWA DERIVED FROM LIDAR DATA. THE LIDAR DATA WAS ACQUIRED IN THE SPRING OF 2008. THE CONTOUR DATA WAS FIELD VERIFIED BY GLOBAL POSITIONING SURVEY (GPS) IN THE SPRING OF 2012. CONTOUR INTERVAL IS 2 FOOT.
2. TOPOGRAPHIC BASE MAP SUPPLEMENTED WITH SURVEYS PERFORMED BY FRENCH-RENEKER ASSOCIATES, INC., FAIRFIELD, IOWA. DATES OF GROUND SURVEYS ARE FEBRUARY 22, 2011, AND JANUARY 22, 2013, 2015 DOCUMENTATION SURVEYS BY SCS ENGINEERS, RYAN CENTRAL, AND STANTEC, AND LANDFILL GRADES SURVEY BY FRENCH-RENEKER, JUNE 8, 2023.
3. TOPOGRAPHIC BASE, PROPERTY LINES, UTILITIES, ROAD EDGE AND SITE FEATURES ALONG FORCE MAIN ALIGNMENT FROM SURVEY DATA COLLECTED BY MOHN SURVEYING ON JUNE 18 AND 25, 2024 AND AUGUST 8, 2024.
4. ELEVATIONS ARE BASED ON NAVD 88 DATUM.
5. THE GRID SYSTEM IS BASED ON THE IOWA STATE PLANE COORDINATE SYSTEM NAD 83 (2007 ADJUSTMENT) AS DERIVED FROM NATIONAL GEODETIC SYSTEM (NGS) CONTROL MONUMENT DESIGNATION D 6.
6. PROPERTY LINE NORTH OF 130<sup>TH</sup> STREET FROM PLAT OF SURVEY MAP PREPARED BY SCS ENGINEERS, MADISON, WISCONSIN, DATED FEBRUARY 20, 2013.
7. USE BEST MANAGEMENT PRACTICES FOR CONSTRUCTION STORM WATER MANAGEMENT AND EROSION CONTROL FOR ALL WORK INVOLVING DISTURBANCE TO THE EXISTING GROUND.
8. COMPLY WITH ALL APPLICABLE PERMIT REQUIREMENTS.
9. PROTECT ALL MONITORING WELLS IN AND ADJACENT TO WORK AREAS.

| HORIZONTAL AND VERTICAL CONTROL POINTS |            |              |           |
|----------------------------------------|------------|--------------|-----------|
| POINT                                  | NORTHING   | EASTING      | ELEVATION |
| SM#1                                   | 394,487.72 | 1,930,354.82 | 820.39    |
| SM#2                                   | 394,249.46 | 1,929,325.84 | 819.14    |
| SM#3                                   | 395,101.57 | 1,929,775.56 | 814.05    |
| SM#4                                   | 395,105.73 | 1,930,315.43 | 820.03    |



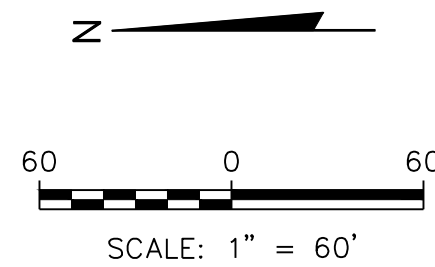






NOTES:  
1. BEST MANAGEMENT PRACTICES (BMP) FOR EROSION CONTROL SHOWN ARE FOR CONTRACTOR REFERENCE AND REPRESENT MINIMUM EXPECTATIONS. EXTENT AND LOCATION CAN VARY BASED ON CONSTRUCTION TECHNIQUES. BMPs SHOULD BE LOCATED AND INSTALLED BY CONTRACTOR AS NECESSARY TO PREVENT EROSION OFF-SITE AND COMPLY WITH PROJECT STORM WATER POLLUTION PREVENTION PLAN (IF APPLICABLE).

NOTE  
1. SEE SHEET 2 FOR BASE MAP NOTES.



PROPOSED WATER TREATMENT ACCESS BUILDING (REMOVE EXISTING VALVE) SEE DETAIL (2/7)

PROPOSED 2" DIA. SDR 11 HDPE FORCE MAIN SEE DETAIL (3/5)

PROPOSED VALVE MANHOLE, VMH-1. SEE DETAIL (2/6)

FORCE MAIN CONNECTION TO EXISTING LIFT STATION. DROP PIPE INSTALLED ON INTERIOR SEE DETAIL (1/7)

EXISTING LEACHATE/UNDERDRAIN PIPE TRENCH. SEE DETAIL (2/5)

APPROXIMATE LOCATION OF EXISTING ELECTRIC POWER

PROPOSED PUMP CONTROL PANEL LOCATION. SEE DETAIL (1/5)

PROPOSED UNDERGROUND ELECTRIC

PROPOSED LIFT STATION SEE DETAIL (1/6)

EXISTING PHASE 1 LEACHATE FORCE MAIN AND ELECTRICAL

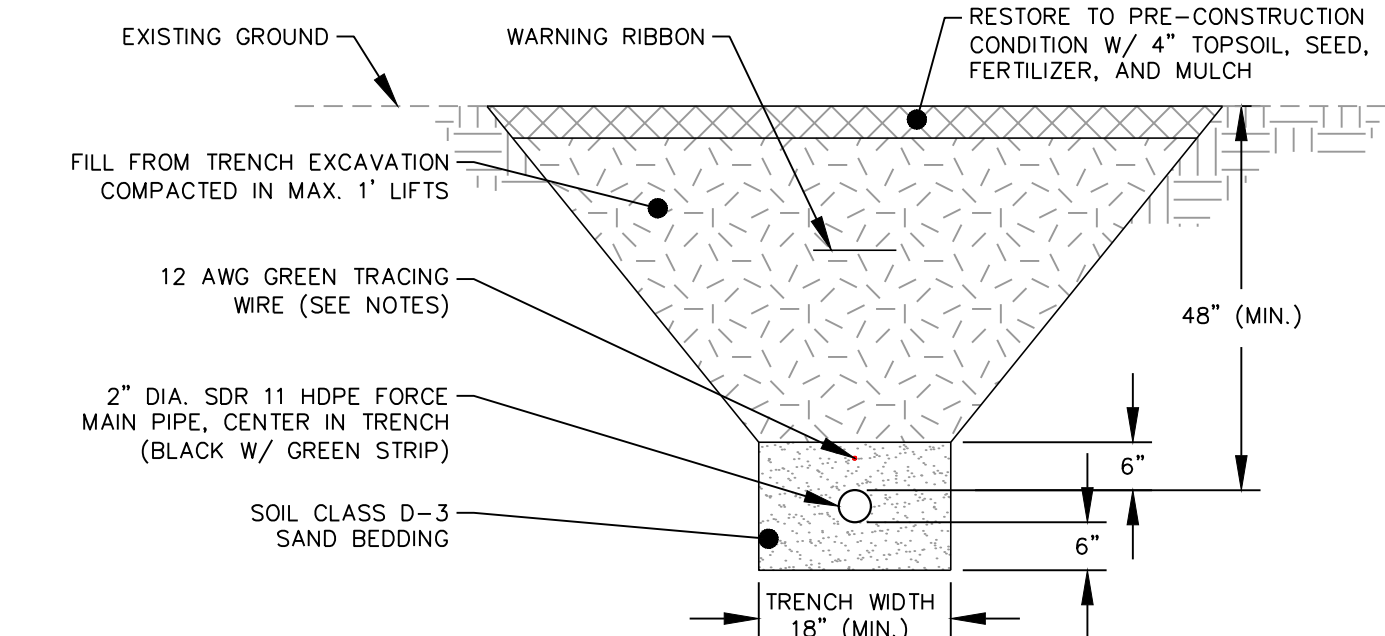
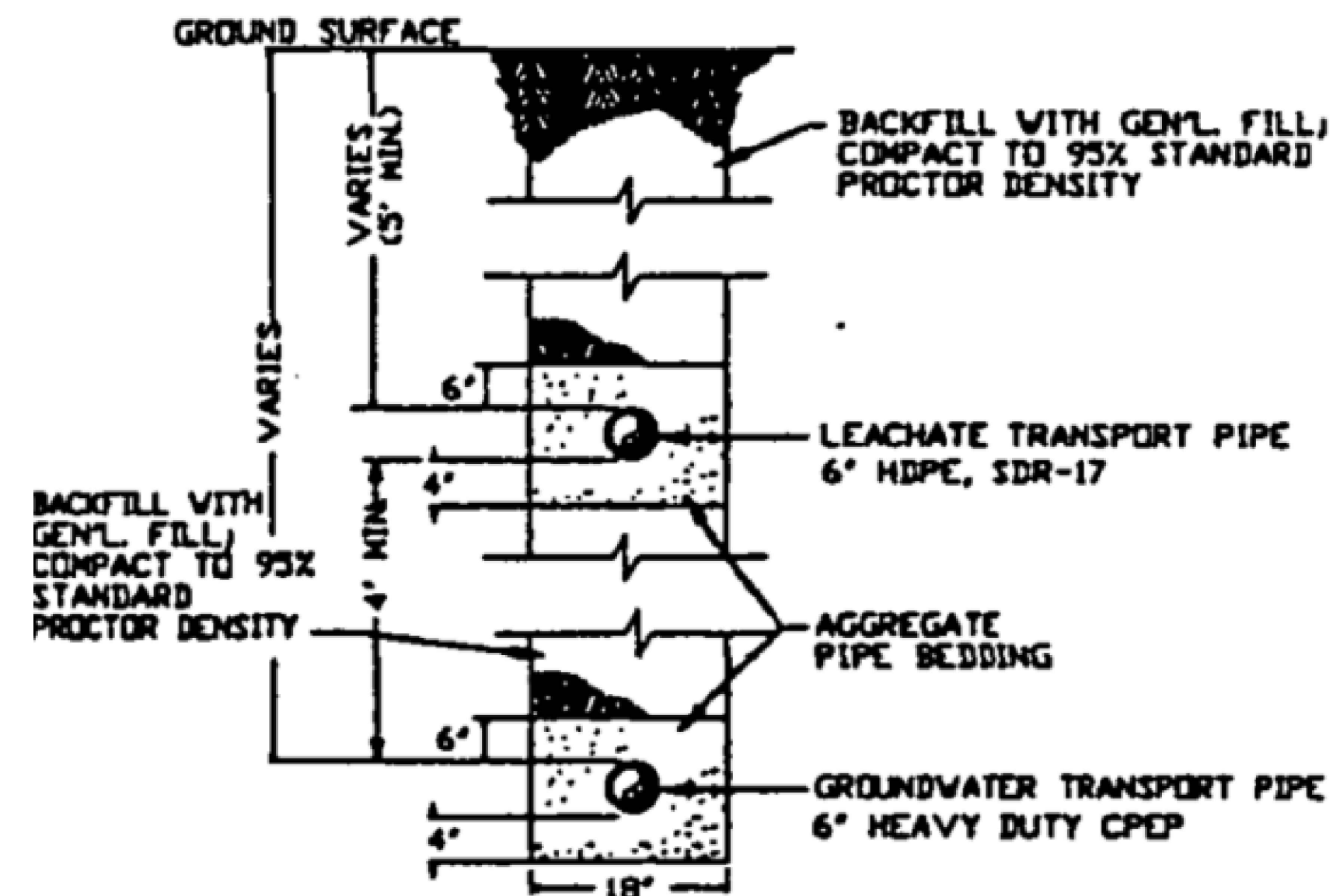
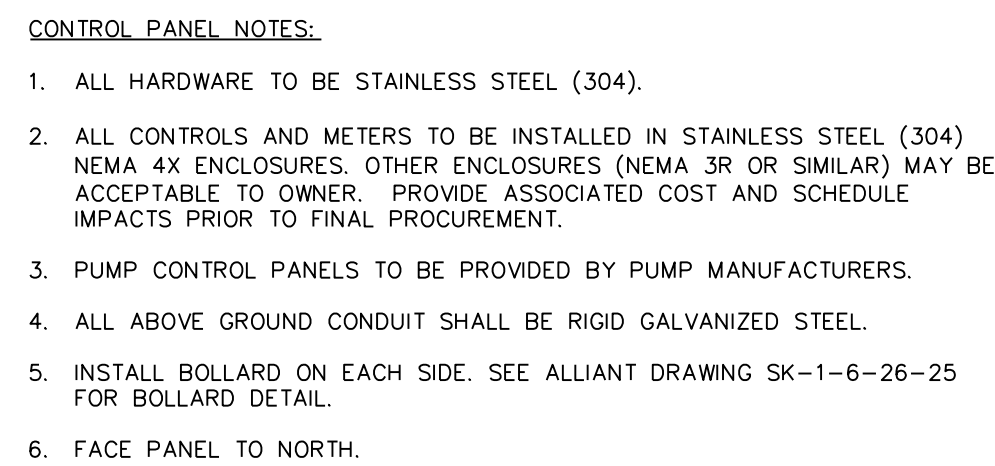
PROPOSED SILT FENCE/FILTER SOCK (TYP.) SEE DETAILS (3/5) (6/5)

PROPOSED AIR/VACUUM RELEASE VALVE SEE DETAIL (4/5)

ISSUED FOR CONSTRUCTION

|                                        |  |                |  |
|----------------------------------------|--|----------------|--|
| PROJECT NO. 25224149.00                |  | DRAWN BY: KP   |  |
| 15300 130th STREET                     |  | CHECKED BY: RH |  |
| OTTUMWA, IOWA 52501                    |  | REVIEWED: MS   |  |
| INTERSTATE POWER AND LIGHT COMPANY     |  | ---            |  |
| CLIENT                                 |  |                |  |
| SCS ENGINEERS                          |  |                |  |
| 2830 DARY DRIVE MADISON, WI 53718-6751 |  |                |  |
| PHONE: (608) 224-2830                  |  |                |  |
| ENGINEER                               |  |                |  |
| GROUNDWATER UNDERDRAIN FORCE MAIN      |  |                |  |
| OTTUMWA MIDLAND LANDFILL               |  |                |  |
| 15300 130th STREET                     |  |                |  |
| OTTUMWA, IOWA                          |  |                |  |
| SITE                                   |  |                |  |
| PROPOSED ON-SITE PIPING                |  |                |  |
| SHEET                                  |  | 4 of 9         |  |

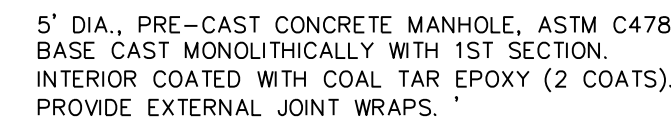




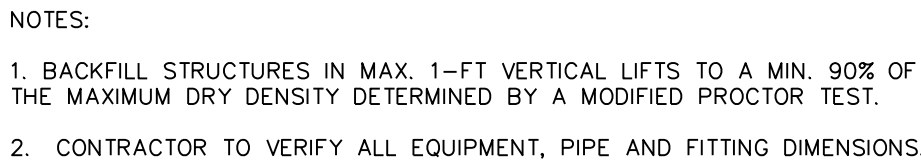
|                                                                                                                                   |                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1. INSTALL TRACING WIRE 3 TO 6 INCHES ABOVE TOP OF PIPE.                                                                          | 4. THIS DETAIL APPLIES TO AN OPEN TRENCH INSTALLATION.                                                            |
| 2. TERMINATE BOTH ENDS OF TRACING WIRE IN ACCESS BOXES BY CAST IRON & PLASTIC MANUFACTURING & SALES, MUNCY, PA OR APPROVED EQUAL. | 5. ALTERNATIVE INSTALLATION TECHNIQUES (I.E., DIRECTIONAL BORING) MAY BE ACCEPTABLE WITH PRIOR APPROVAL BY OWNER. |
| 3. INSTALL GROUNDING ROD AT ONE END OF TRACING WIRE PER MANUFACTURER'S INSTRUCTIONS.                                              |                                                                                                                   |





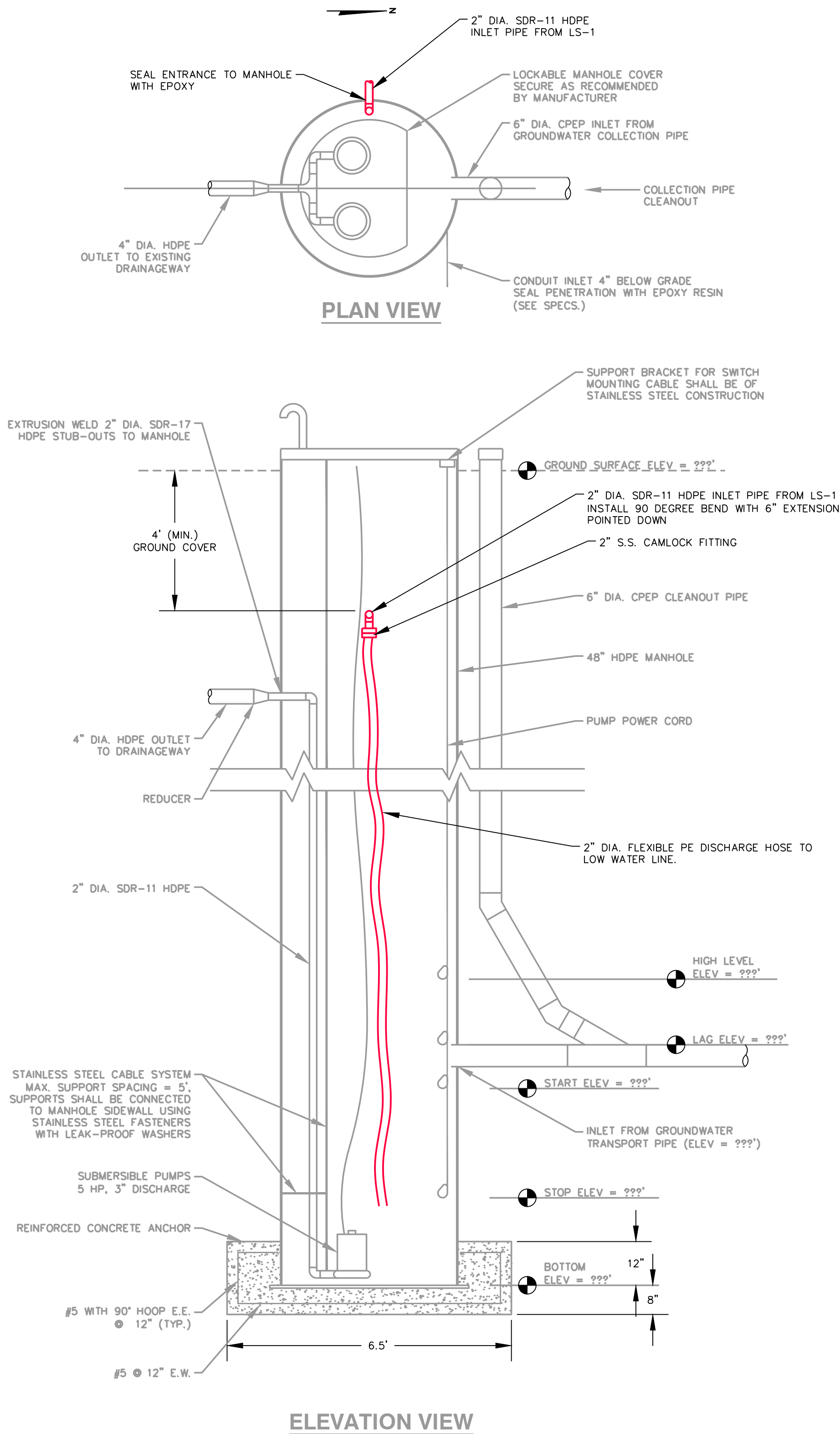


NOT TO SCALE



NOT TO SCALE

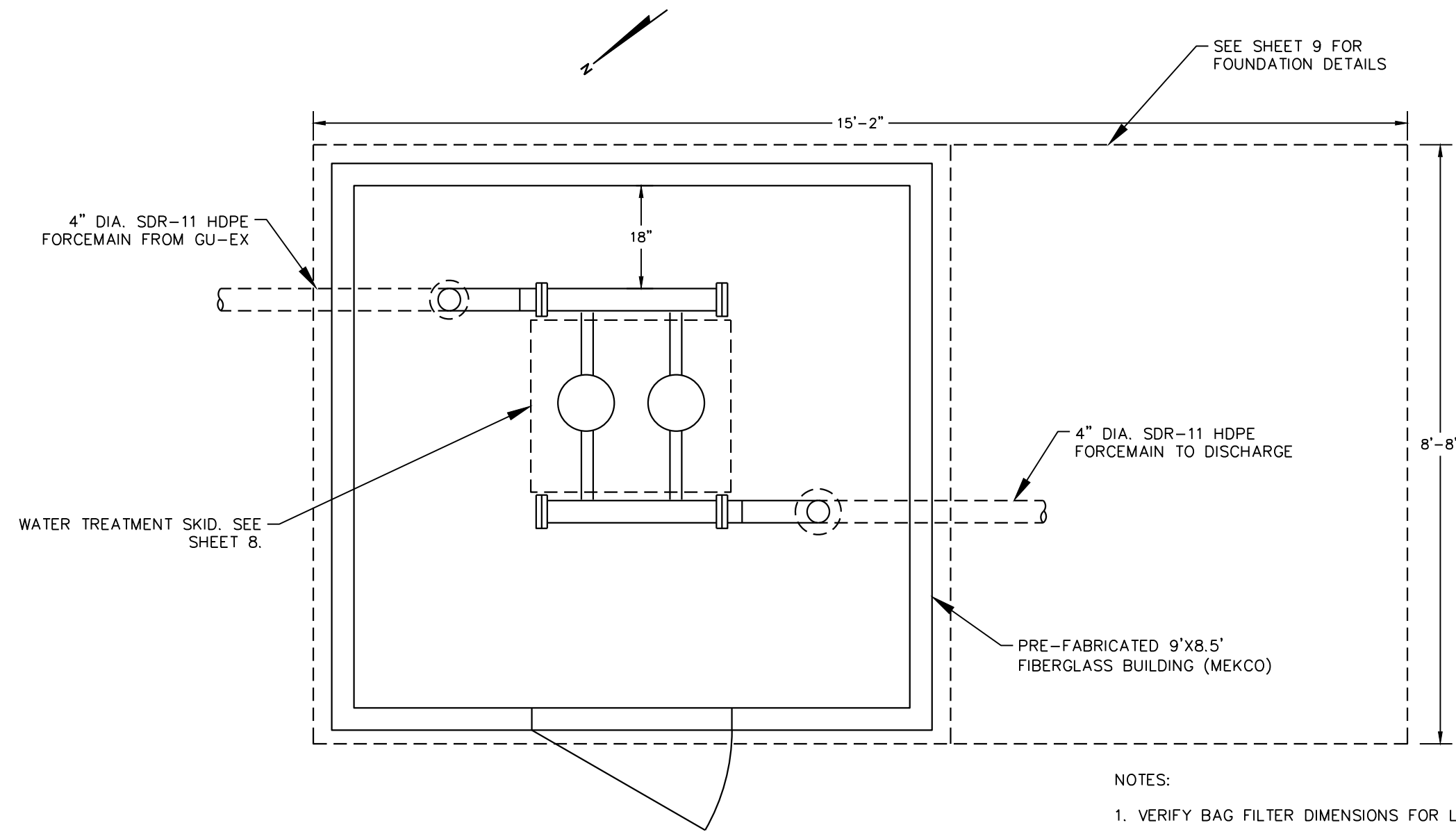




ELEVATION VIEW

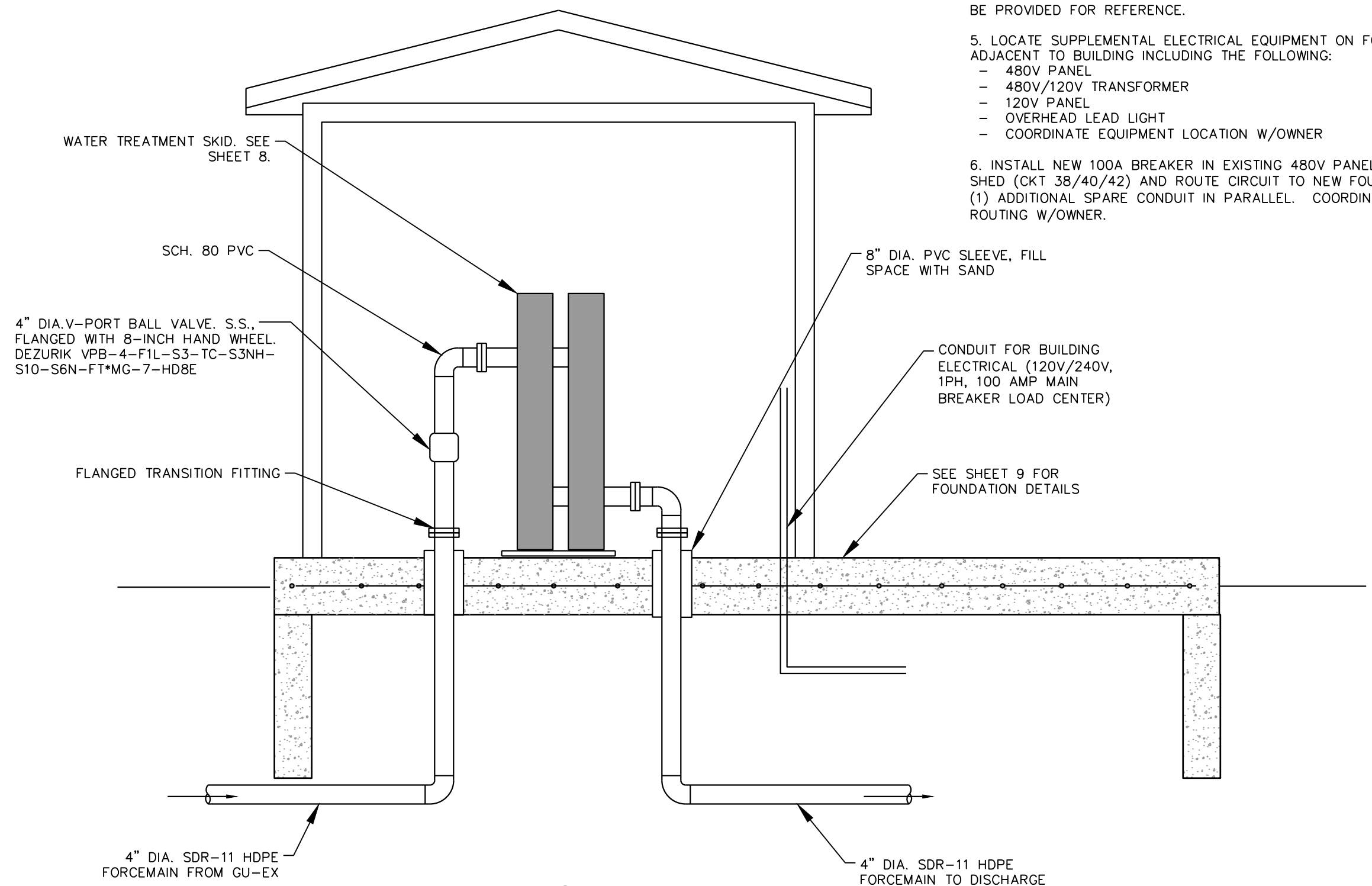
1  
7

CONNECTION TO EXISTING  
GU-EX LIFT STATION  
NOT TO SCALE



PLAN VIEW

- NOTES:
1. VERIFY BAG FILTER DIMENSIONS FOR LOCATION OF SLAB PENETRATIONS.
  2. FASTEN BUILDING TO SLAB WITH DRILLED 3/8" WEDGE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
  3. COORDINATE LOCATION AND ORIENTATION OF BUILDING, FOUNDATION, PIPING, AND CONDUIT W/OWNER.
  4. OWNER WILL BE RESPONSIBLE FOR PROCUREMENT OF PRE-FAB BUILDING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SHOP DRAWINGS WILL BE PROVIDED FOR REFERENCE.
  5. LOCATE SUPPLEMENTAL ELECTRICAL EQUIPMENT ON FOUNDATION ADJACENT TO BUILDING INCLUDING THE FOLLOWING:
    - 480V PANEL
    - 480V/120V TRANSFORMER
    - 120V PANEL
    - OVERHEAD LEAD LIGHT
    - COORDINATE EQUIPMENT LOCATION W/OWNER
  6. INSTALL NEW 100A BREAKER IN EXISTING 480V PANEL IN MAINTENANCE SHED (CKT 38/40/42) AND ROUTE CIRCUIT TO NEW FOUNDATION. PROVIDE (1) ADDITIONAL SPARE CONDUIT IN PARALLEL. COORDINATE ELECTRICAL ROUTING W/OWNER.



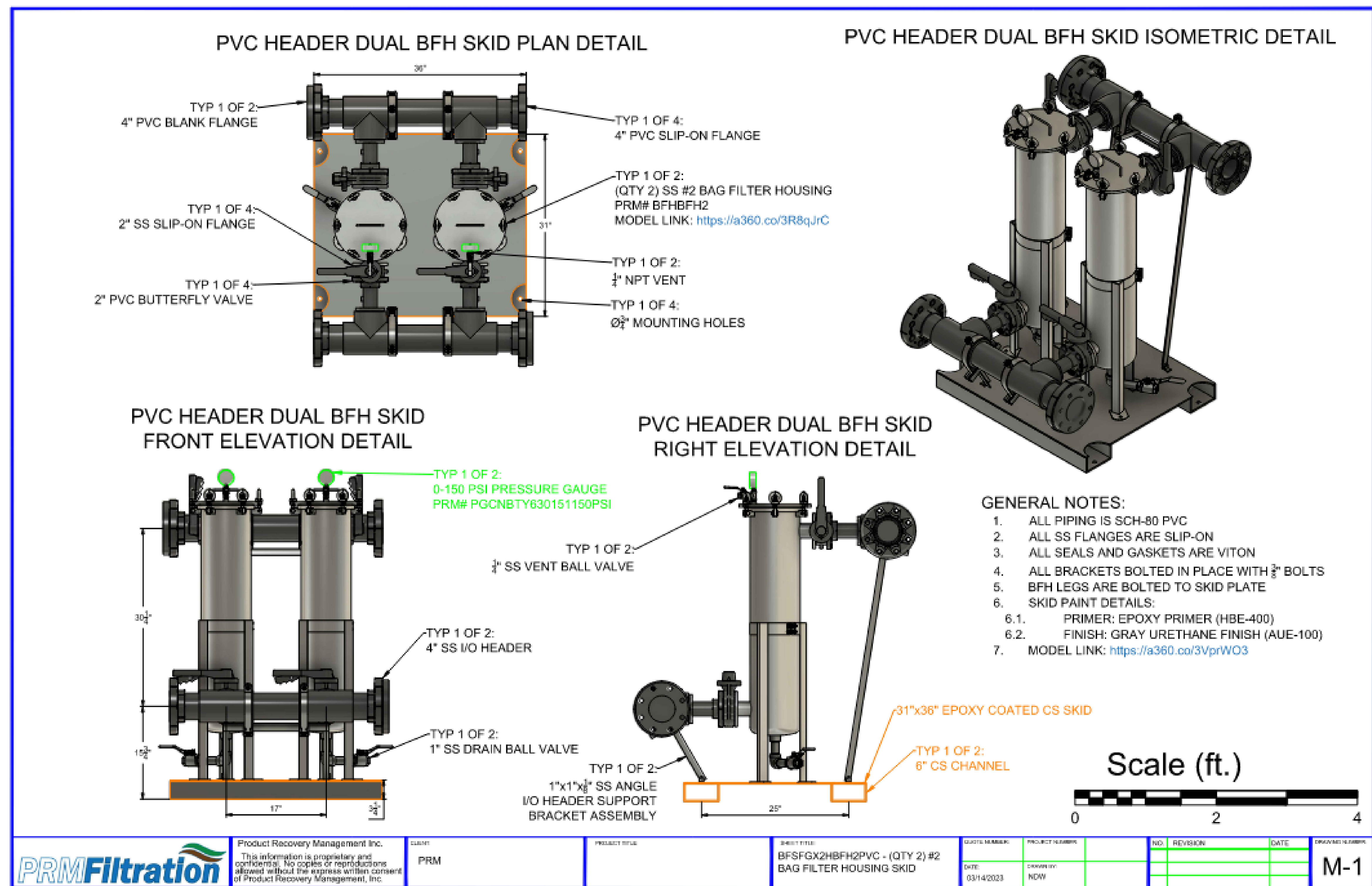
ELEVATION VIEW

2  
7

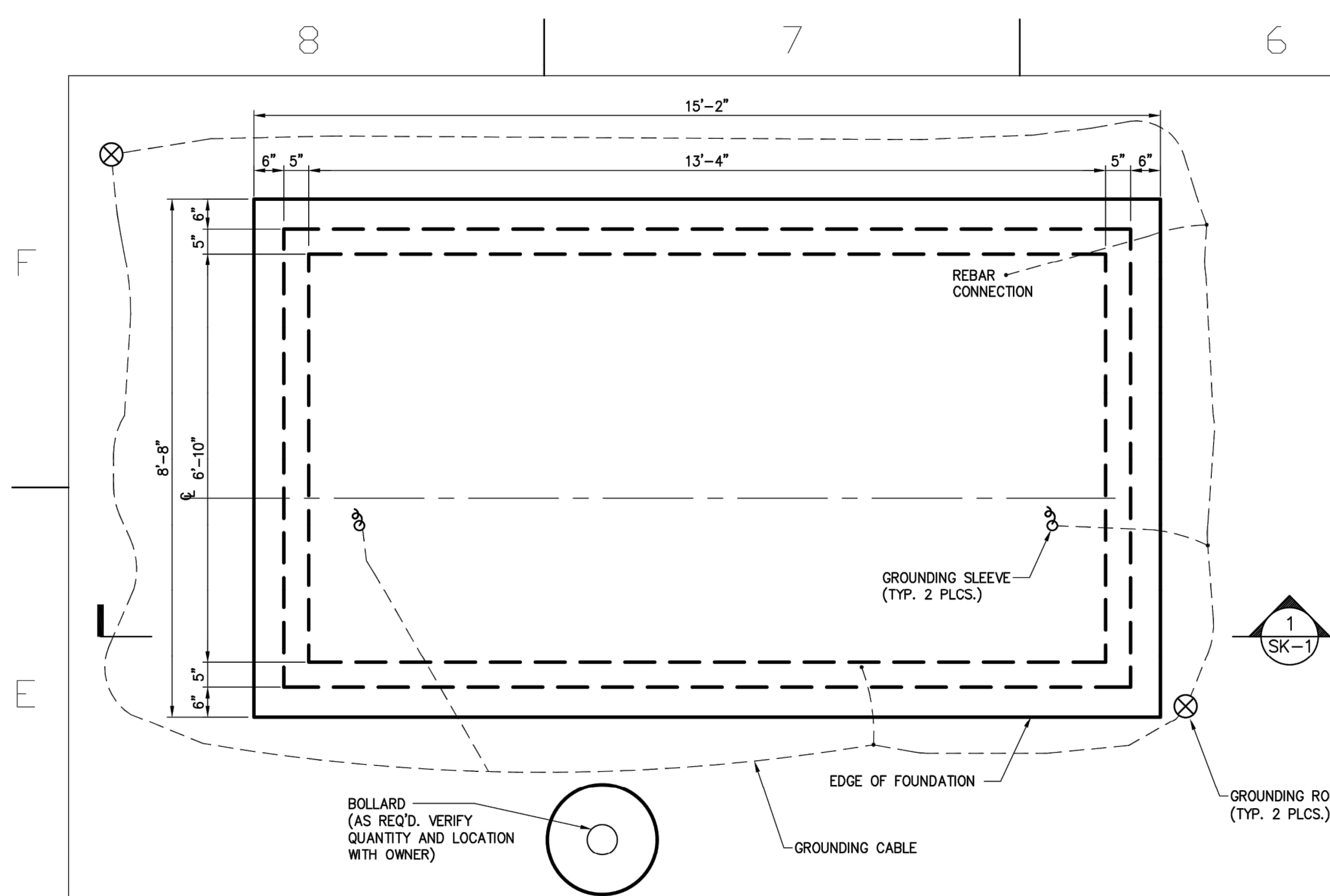
WATER TREATMENT ENCLOSURE  
NOT TO SCALE



10/24/2024 10:55:00 AM SCS Engineers, Inc. 11/22/2024 1:30 PM





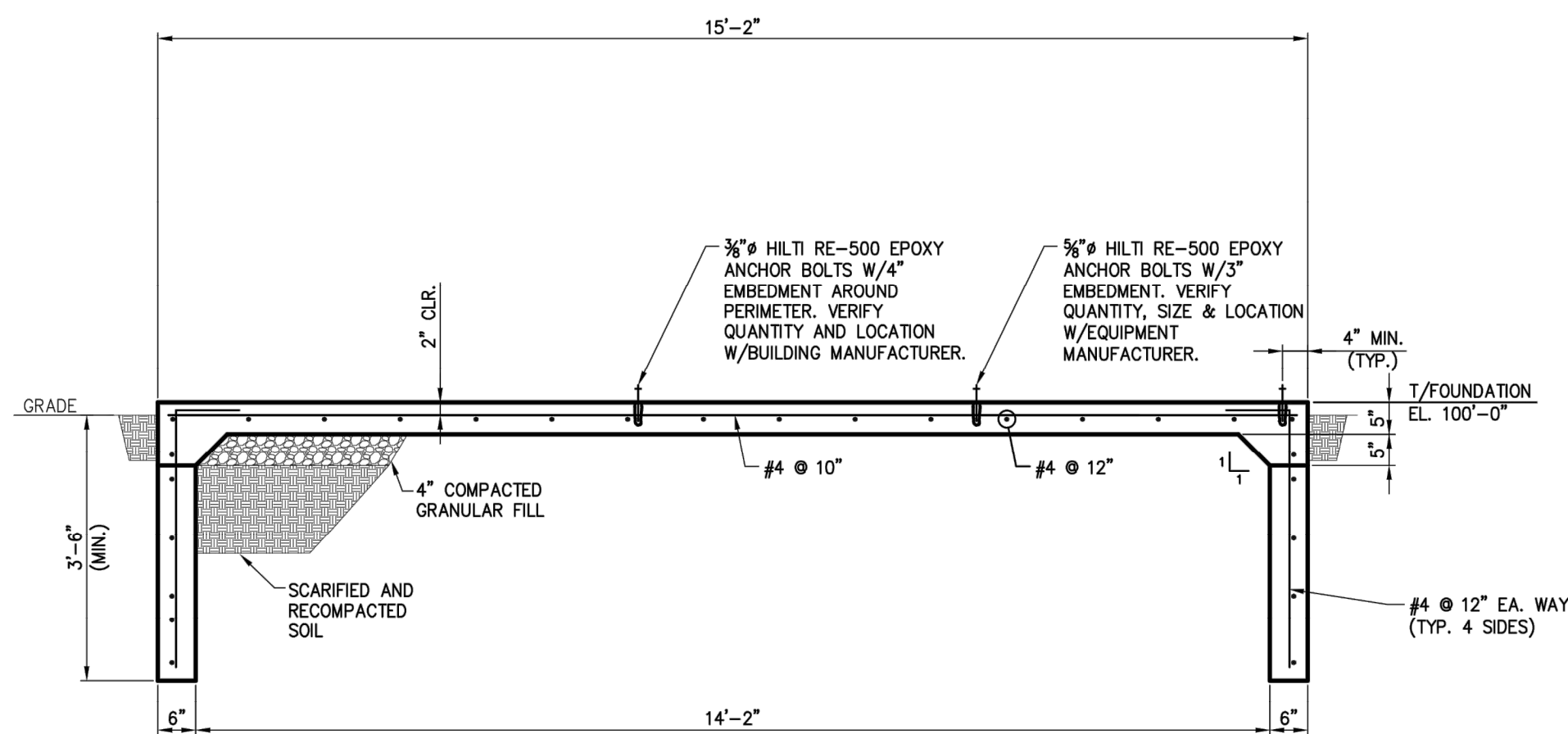


FOUNDATION PLAN-EL. 100'-0"

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

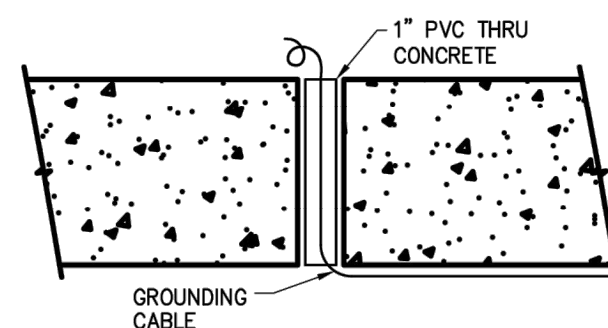
NOTES:

- 1) ORIENTATION AND LOCATION OF FOUNDATION TO BE DETERMINED IN FIELD.
- 2) POWER TO COME UP THRU THE SLAB. LOCATION TO BE SET BY CONTRACTOR.



SECTION 1

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



GROUNDING SLEEVE DETAIL

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

NOTES:

- 1) VERIFY REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND OWNER.
- 2) TO BE LOCATED BY CONTRACTOR.

GROUNDING SPECIFICATIONS:

1. GROUND RODS:
  - a. COPPER-CLAD STEEL OR COPPER ALLOY RODS.
  - b. ONE END POINTED TO FACILITATE DRIVING INTO GROUND.
  - c. 3/4-INCH DIAMETER AND 10'-0" LENGTH.
  - d. DRIVE TO A DEPTH SUCH THAT TOP OF RODS WILL BE APPROXIMATELY 30" BELOW FINAL GRADE OR SUB-GRADE AND CONNECT TO THE BURIED GRID GROUND CONDUCTORS.
2. CONNECTION MATERIALS:
  - a. BURNDY "HYGROUND" COMPRESSION-TYPE CONNECTORS.
  - b. TYPE: "HYLUG (YH4)" FOR BOLT ON APPLICATIONS.
  - c. TYPE: "C" HYTAP (YH4-C) CONNECTOR FOR JUMPER/TAI CONNECTIONS.
  - d. TYPE: "6" HYTAP (YH4-C) CONNECTOR FOR GRID TO REBAR CONNECTIONS.
  - e. TYPE: GRIDLOK (YGR-C) CONNECTOR FOR GRID TO GROUND ROD CONNECTIONS.
3. MAIN GRID GROUNDING CONDUCTOR SHALL BE BARE, MEDIUM SOFT DRAWN COPPER CABLES AT A DEPTH BELOW EARTH SURFACE FROST LEVEL BUT NOT LESS THAN 30" BELOW GRADE.
4. MAIN GROUND LOOP OR GRID, NO. 4/0 AWG MINIMUM.
5. GROUNDING CONNECTION SHALL BE MADE ONLY TO SURFACES THAT ARE CLEAN AND DRY. STEEL SURFACES SHALL BE CLEANED TO REMOVE SCALE, RUST, GREASE, PAINT AND DIRT. WHERE PAINT IS REMOVED FOR GROUNDING PURPOSES, IT SHALL BE REPAINTED AFTER THE CONNECTION IS MADE.
6. INSTALL NO. 2 AWG BONDING JUMPERS/TAILS.
7. GROUND GRID SHALL CONNECT TO REBAR IN TWO (2) LOCATIONS.

CONFIDENTIAL

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CONCRETE AND GROUNDING  
CONCRETE PAD  
OUTFALL REROUTE BUILDING PAD

Scale: NTS

SK-1-6-26-25

DESIGN DATA:

1. DESIGN SOIL PRESSURE USED. . . . . 1500 PSF (ASSUMED)

GENERAL NOTES:

1. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS.
2. ELEVATIONS GIVEN THUS (-3'-0") ARE TO BE THE TOP (UNLESS NOTED (U.N.)) OF BEAMS, COLUMNS, SLABS, LINTELS, ETC. WITH REFERENCE TO THE FINISH FLOOR LINE = (100'-0").
3. CONTRACTOR SHALL COORDINATE WORK SCHEDULES WITH THE OWNER TO ESTABLISH CONSTRUCTION SEQUENCING OF OCCUPIED AREA. CONTRACTOR SHALL NOT PROCEED TO OCCUPIED AREAS UNTIL AUTHORIZED BY OWNER.
4. CONTRACTOR TO VERIFY UNDERGROUND UTILITY LOCATIONS PRIOR TO EXCAVATION WORK AND PAVING REMOVAL. CARE SHALL BE TAKEN TO AVOID DAMAGE TO ANY UNDERGROUND UTILITY.
5. REMOVE THE SUBGRADE AND UNDERLYING SOIL TO A SUFFICIENT DEPTH FOR NEW CONSTRUCTION WHERE APPLICABLE.
6. COMPACT SUBGRADE SURFACES TO THE DENSITY REQUIREMENTS FOR BACKFILL MATERIAL.
7. BEFORE STARTING BACKFILL WORK, REMOVE FORMING DEBRIS, WOOD, WATER, ICE, SNOW AND FROZEN SOIL.
8. IF CONTRACTOR ENCOUNTERS CONDITIONS CONTRARY TO THE DRAWINGS THEY SHALL INFORM THE OWNER OR HIS REPRESENTATIVE OF THE DISCREPANCY.

GENERAL CONCRETE NOTES:

1. DESIGN, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS UNLESS OTHERWISE MODIFIED ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS:
  - ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
  - ACI 301, "SPECS. FOR STRUCTURAL CONCRETE FOR DETAILING"
  - CRSI, "RECOMMENDED PRACTICES FOR PLACING REINFORCING BARS"
2. CONCRETE SHALL DEVELOP 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS (U.N.).
3. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 (FLAT SHEETS ONLY).
4. PROVIDE A MINIMUM CLEAR COVER OF 3 INCHES FOR REINFORCING STEEL WHEN CONCRETE IS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
5. PROVIDE A MINIMUM CLEAR COVER OF 2 INCHES FOR BARS LARGER THAN #5, AND 1 1/2 INCHES FOR #5 BARS AND SMALLER IF AFTER REMOVAL OF FORMS THE CONCRETE IS EXPOSED TO WEATHER OR EARTH.
6. PROVIDE A MINIMUM CLEAR COVER WHEN NOT EXPOSED TO WEATHER OR EARTH:
  - SLABS AND WALLS: 3/4" FOR #11 AND SMALLER 1 1/2" FOR #14 & #18
  - BEAMS, COLUMNS, AND PIERS: 1 1/2"
7. EMBEDMENT AND LAP SPICE LENGTHS FOR REINFORCING STEEL SHALL CONFORM TO ACI 318, UNLESS SHOWN ON THE DESIGN DRAWINGS. BARS SHOULD CONTINUE AT SIZE AND SPACING IN CORNERS.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" RADIUS TROWEL FINISH.
9. FOUNDATION TO HAVE BROOM FINISH.

PRELIMINARY  
NOT FOR CONSTRUCTION

BY: TOM KAZMIERCZAK

DATE: 7/3/25

REVISION: B