



# GENERAL MECHANICAL NOTES

**GENERAL:**

1. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP, SHALL CONFORM WITH THE MOST RECENTLY ADOPTED SPECIFICATION OF CODE AND WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS AND REGULATORY BODIES HAVING JURISDICTION OVER THIS WORK.
2. THE CONTRACTOR SHALL ASSUME THAT THERE WILL BE MINOR MODIFICATIONS MADE DURING CONSTRUCTION.
3. WORK REQUIRING A SHUTDOWN OF GCCS, FLARE, OR ENERGY FACILITY SHALL BE AT SUCH TIME AND IN SUCH MANNER AS DIRECTED BY THE OWNER. PROVIDE A MINIMUM ONE (1) WEEK PRIOR WRITTEN NOTICE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY FIELD CONDITIONS AT THE SITE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF INSTALLATION PRINTS. THE CONTRACTOR SHALL NEATLY AND CLEARLY RECORD ON THESE PRINTS ALL DEVIATIONS FROM THE CONTRACT DRAWINGS IN SIZES, LOCATIONS AND DETAILS. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL RETURN THE MARKED PRINTS WITH ALL INFORMATION OBTAINED DURING THE CONSTRUCTION PROCESS TO THE ENGINEER.
6. ENERGYNEERING SOLUTIONS, LLC. INCORPORATES COMMERCIALY MANUFACTURED ITEM(S) OR COMPONENT(S) IN THE PREPARATION OF THIS PLAN, AND RELIES UPON THE MANUFACTURER'S STATED OR IDENTIFIED SPECIFICATIONS AND PROPERTIES IN THE PREPARATION OF THIS PLAN. ENERGYNEERING SOLUTIONS, INC. HAS NOT UNDERTAKEN ANY INDEPENDENT EXAMINATION, TESTING OR ANALYSIS TO VERIFY THE MANUFACTURERS' SPECIFICATIONS OR PROPERTIES FOR ANY ITEM OR COMPONENT.
7. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED FOR THIS PROJECT.
9. ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
10. THESE DOCUMENTS CONTAIN NOTES THAT MAY APPLY GENERALLY TO ALL MECHANICAL ELEMENTS, SPECIFICALLY TO ONE SHEET, OR SPECIFICALLY TO ONE OR MORE MECHANICAL ELEMENTS. THE NOTES ARE NOT MERE GUIDELINES, THEY ARE PART AND PARCEL OF THE DESIGN. ANY WORK THAT IS PERFORMED THAT IS NOT IN COMPLIANCE WITH THE NOTES IS NOT IN COMPLIANCE WITH THE DESIGN AND IS SUBJECT TO REJECTION. ANY ALTERATION, MODIFICATION, DELETION, OR ADDITION TO THE NOTES BY WRITING, ACT OR FAILURE TO ACT, SHALL BE CARRIED OUT ONLY WITH THE PRIOR EXPRESS WRITTEN CONSENT AND APPROVAL OF THE DESIGN ENGINEER.
11. UNLESS OTHERWISE SPECIFIED, DETAIL SHEETS ARE NOT TO SCALE.

**MECHANICAL PIPING:**

1. ALL FLANGES TO BE ANSI 150# UNLESS OTHERWISE NOTED.
2. ALL STEEL PIPING AND COMPONENTS TO BE GALVANIZED OR PAINTED FOR CORROSION PROTECTION. STEEL CASING FOR LANDFILL GAS WELLS ARE EXCLUDED FROM BEING COATED.
3. REFLECTIVE TAPE TO BE INSTALLED ON ALL STUB-UPS.
4. ALL OFF-LINER PIPING, AND WHERE APPLICABLE, SHALL UTILIZE 100% EXPANDED PTFE GASKETS (GORE® OR APPROVED EQUAL).

**PIPE SUPPORTS:**

1. PIPE SUPPORTS TO BE INSTALLED TO MAINTAIN SLOPE, SUPPORT, AND ACCESSIBILITY. MECHANICAL CONTRACTOR TO INSTALL ADDITIONAL PIPE SUPPORTS AS NECESSARY.
2. MAXIMUM SUPPORT SPACING TO COMPLY WITH ALL APPLICABLE CODES (E.G. INTERNATIONAL MECHANICAL CODE, TABLE 305.4).

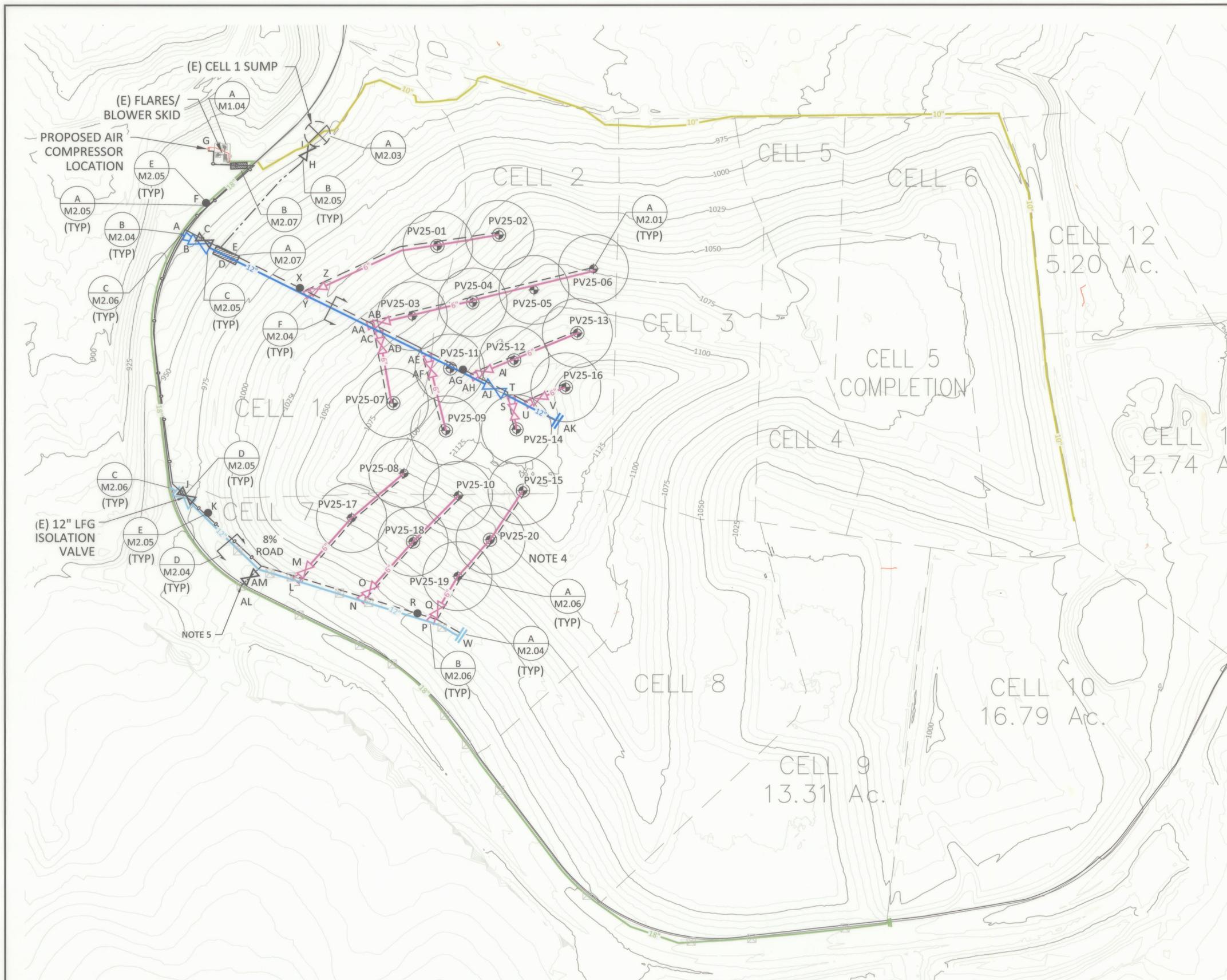
**MECHANICAL COMPONENTS:**

1. UNIONS TO BE INSTALLED AS NECESSARY.

**AS-BUILT, SURVEY, AND PROVIDED INFORMATION:**

1. EXISTING WELL LOCATIONS COMPILED BASED ON FIELD OBSERVATION AND HISTORICAL SITE DRAWINGS.
2. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY BY COWLITZ COUNTY ON JANUARY 7, 2025.
3. EXISTING OPERATIONS LAYER ELEVATIONS FOR CELLS 1-9 ARE BASED ON AN AS-BUILT TOPO PROVIDED BY COWLITZ COUNTY AND RECEIVED BY ESI ON MARCH 3, 2025.

|     |         |                |        |        |        |  |   |   |   |  |  |       |
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|     |         |                |        |        |        |  |   |   |   |  |  |       |
| 0   | 7/30/25 | ISSUED FOR BID | PD     | QM     | BB     |  |  | DEPARTMENT<br>OF<br>PUBLIC WORKS<br><br>1600 13TH AVENUE SOUTH<br>KELSO, WASHINGTON 98626 |  | 15820 BARCLAY DRIVE SISTERS, OR 97759<br>PHONE: (541) 549-8766<br>WWW.ESISOLUTIONS.COM | GENERAL NOTES  | G0.01 |
| REV | DATE    | DESCRIPTION    | DRN BY | DSN BY | CHK BY |  |   |   |   |  | PROPOSED 2025 GCCS EXPANSION<br>HEADQUARTERS LANDFILL<br>CASTLE ROCK, WA |       |



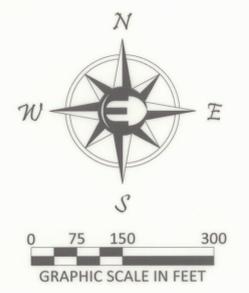
**LEGEND**

**PROPOSED**

- FILL
- 12" LFG PIPING
- 6" LFG PIPING
- - - AIR & FORCE MAIN PIPING
- - - FORCE MAIN PIPING
- AIR PIPING
- ⊕ VERTICAL LFG WELL
- ⊕ VERTICAL LFG WELL WITH PUMP
- ⊗ LFG/AIR & LIQUID CONVEYANCE ISOLATION VALVE
- LIQUID CONVEYANCE CLEANOUT/AIR BLOWOFF
- △ REDUCER
- SLOPE
- ▨ ROAD CROSSING
- 1" ELECTRICAL CONDUIT

**EXISTING**

- 10" LFG HEADER
- 18" LFG HEADER
- 12" LFG HEADER (ON 8% ROAD)
- ⊗ HORIZONTAL MANIFOLD/WELLHEAD
- ⊗ SUMP



- NOTES:**
1. TOPOGRAPHY SHOWN REPRESENTS PROJECTED GRADES PROVIDED BY COWLITZ COUNTY ON JANUARY 7, 2025.
  2. VACUUM, LIQUID, AND AIR LINES SHOULD BE INSTALLED ON THE DOWN HILL SIDE OF ALL WELLS
  3. FIELD GRADE TO MAINTAIN 3% MINIMUM DROP FOR DRAINAGE BACK INTO WASTE
  4. WELLS CONNECT TO HEADER/LATERAL PIPING WITH 6" RISER
  5. TIE IN 3" FORCE MAIN LINE INTO (E) 8" LCS NEAR CLEANOUT

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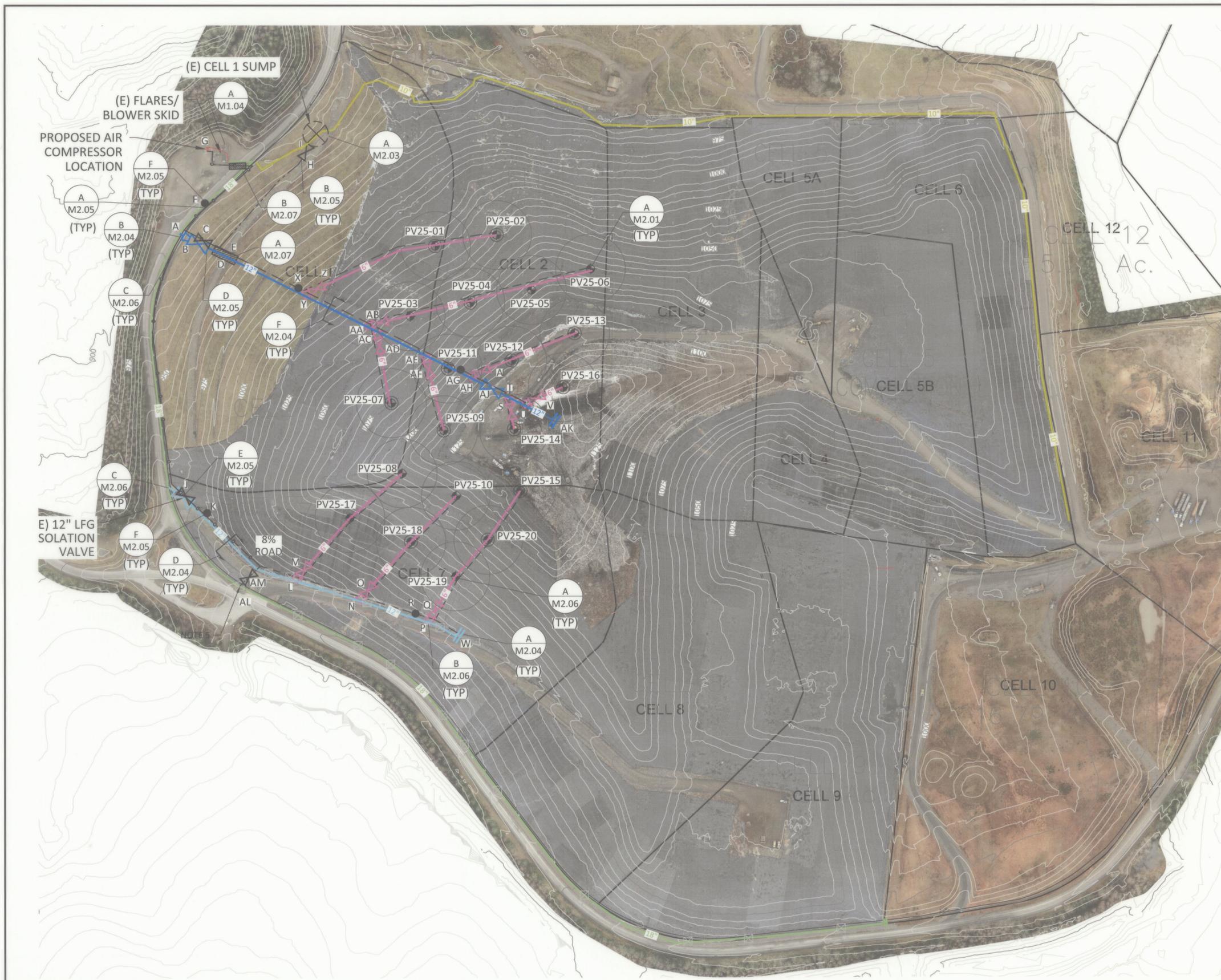


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2025 GCS EXPANSION LAYOUT  
 PROPOSED 2025 GCS EXPANSION  
 HEADQUARTERS LANDFILL  
 CASTLE ROCK, WA

**M1.01A**  
 077.517



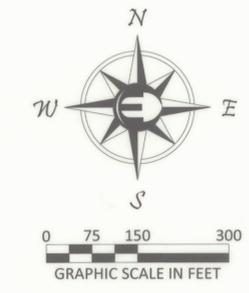
**LEGEND**

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- LIQUID CONVEYANCE CLEANOUT/AIR BLOWOFF
- ▽ REDUCER
- SLOPE
- ▨ ROAD CROSSING
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|     |         |                |        |        |        |
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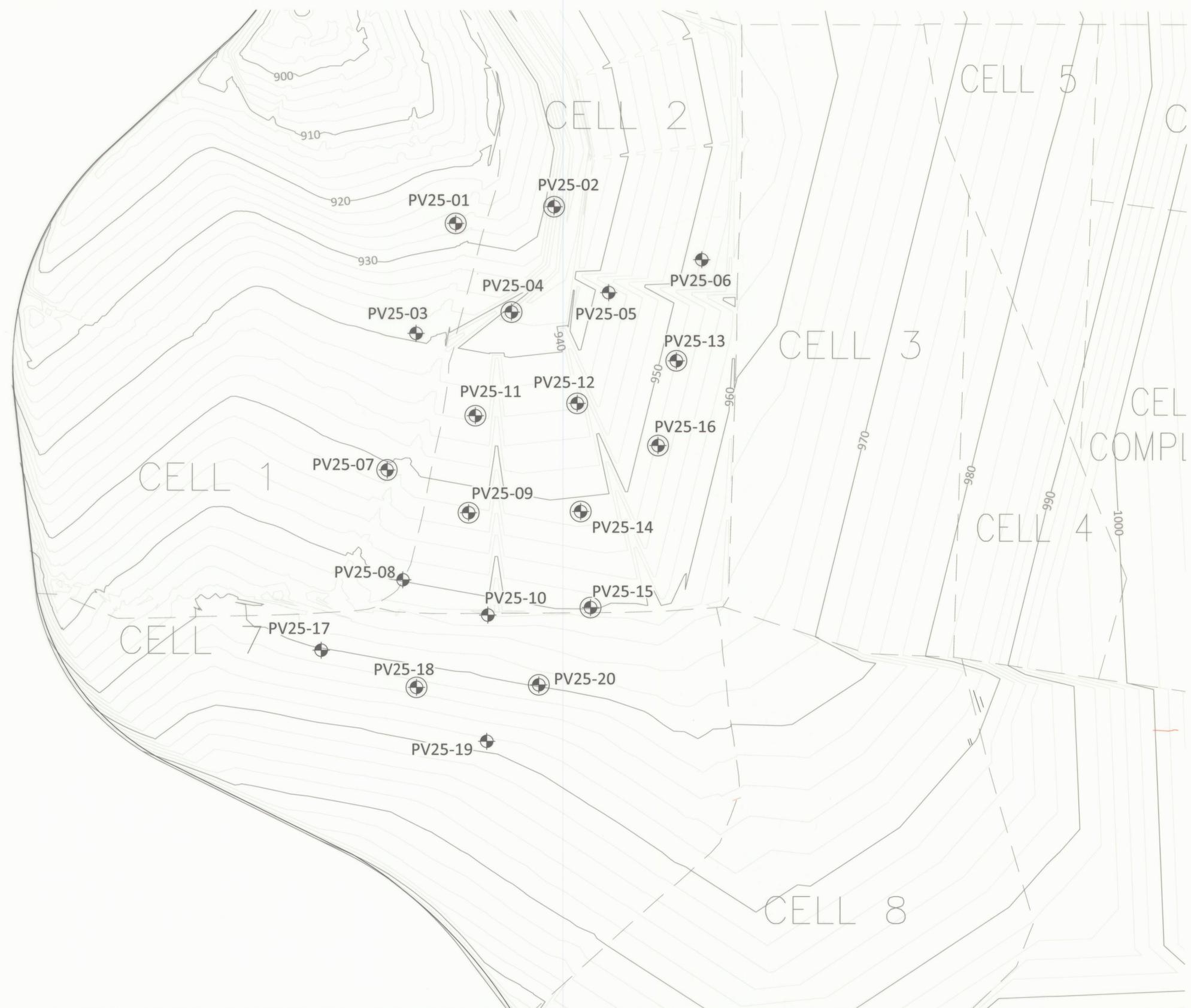
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2025 GCCS EXPANSION ORTHO LAYOUT

PROPOSED 2025 GCCS EXPANSION HEADQUARTERS LANDFILL  
 CASTLE ROCK, WA

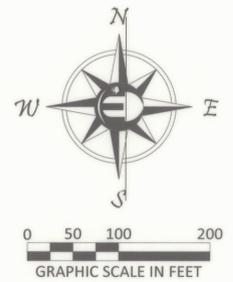
**M1.01B**

077.517



**LEGEND**

|                 |                             |
|-----------------|-----------------------------|
| <b>PROPOSED</b> |                             |
|                 | VERTICAL LFG WELL           |
|                 | VERTICAL LFG WELL WITH PUMP |
| <b>EXISTING</b> |                             |
|                 | LINER                       |
|                 | CELL BOUNDARY               |



- NOTES:**
1. LINER TOPOGRAPHY SHOWN REPRESENTS PROJECTED GRADES PROVIDED BY COWLITZ COUNTY ON MARCH 3, 2025.
  2. LINER ELEVATIONS ARE APPROXIMATELY 2 FEET LOWER THAN TOP OF OPERATIONS LAYER.

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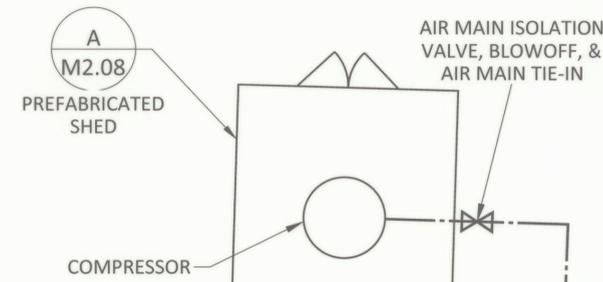
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EXPANSION LAYOUT-  
LINER ELEVATIONS  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

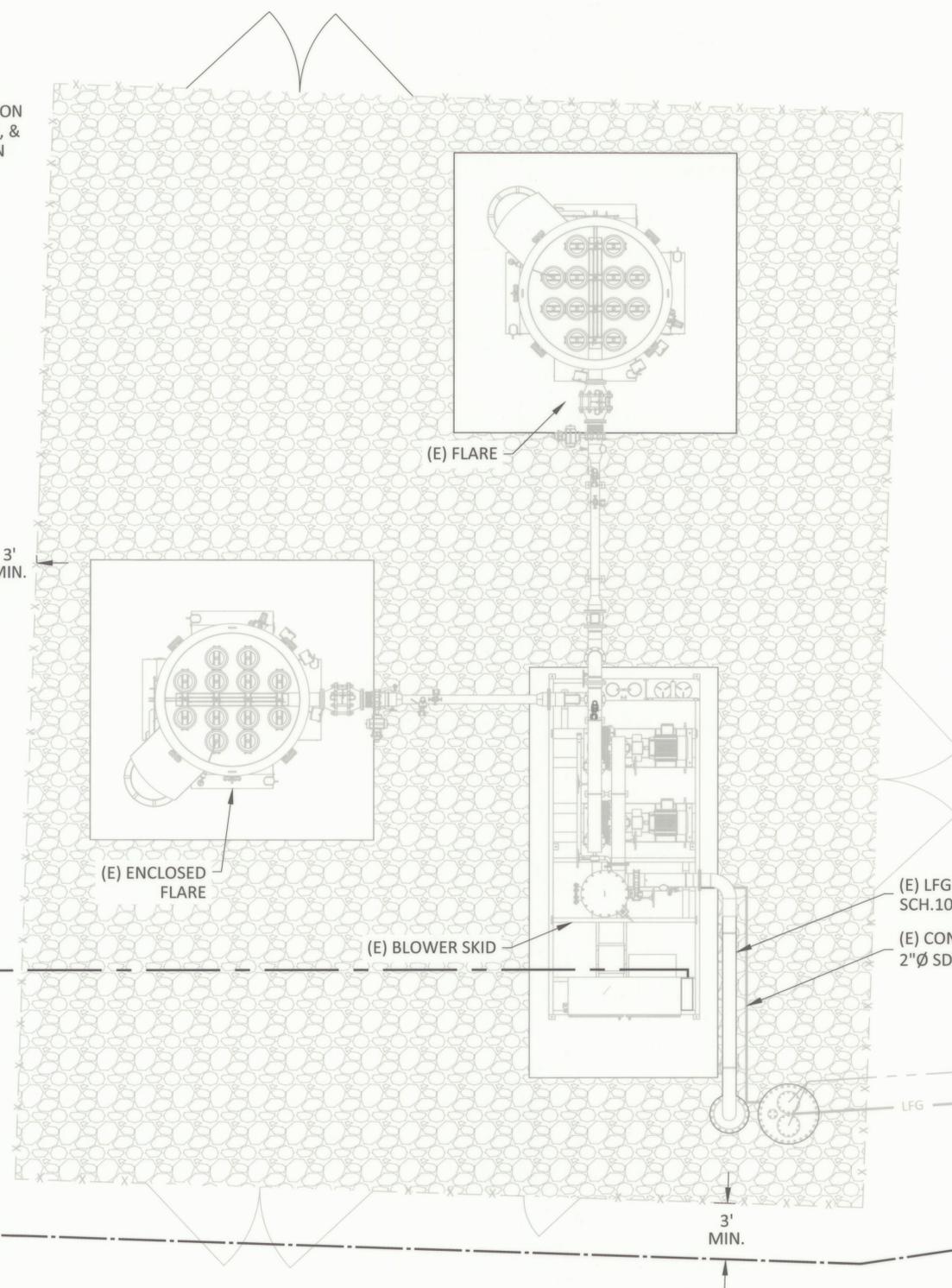
**M1.02**  
077.517





ELECTRIC POWER CONDUIT  
CONNECT TO (E) BREAKER

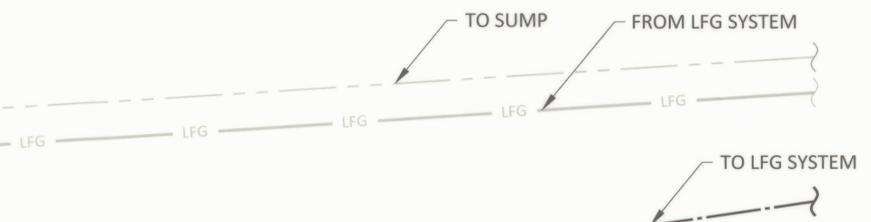
AIR FORCE MAIN  
RUN TO LANDFILL



**LEGEND**

- LFG — (E) LFG HEADER PIPE
- (E) CONDENSATE FORCE MAIN
- x-x- (E) FENCE
- - - UNDERGROUND POWER CONDUIT
- · - · - AIR PIPING - 2" SDR 9 HDPE
- ⊗ VALVE

A  
M1.01 M1.04  
**COMPRESSOR HOUSING LAYOUT**



|     |         |                |        |        |        |
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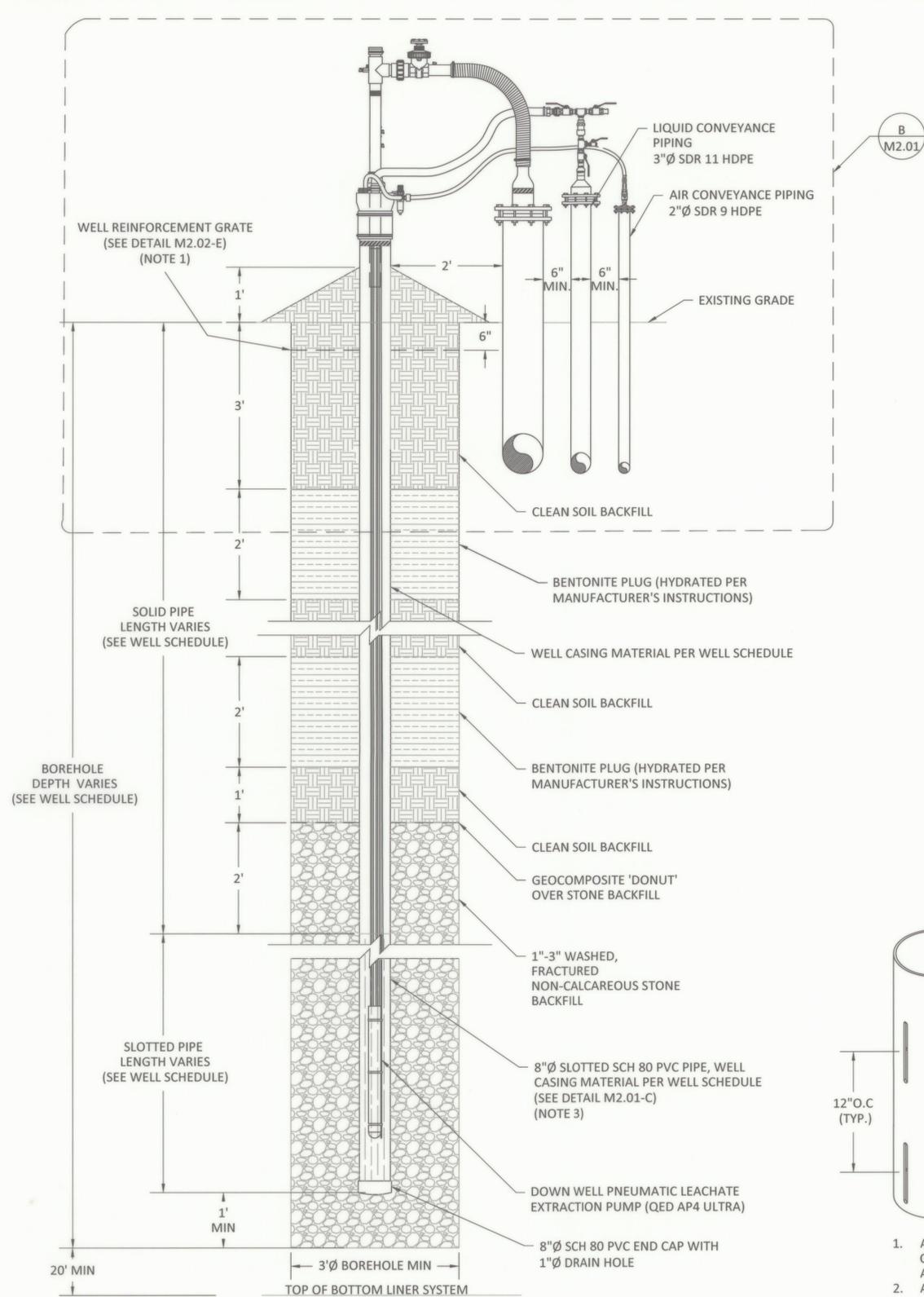


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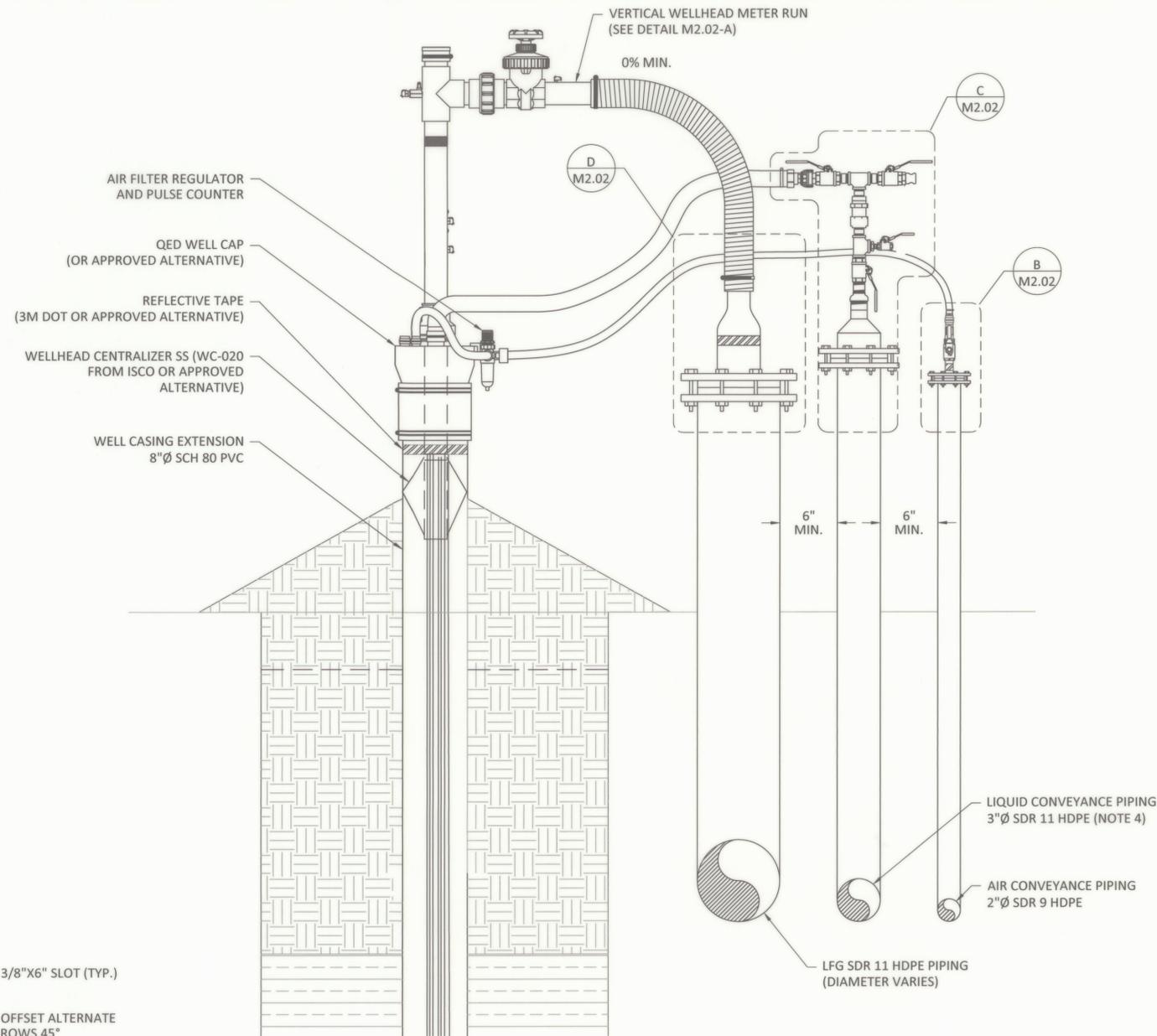
COMPRESSOR HOUSING LAYOUT

PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

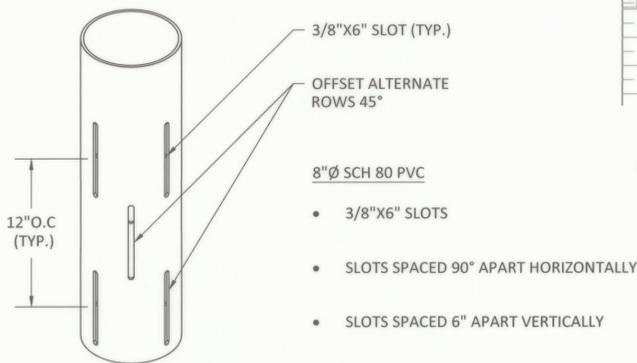
DRAWING NO.  
**M1.04**  
PROJECT NO.  
077.517



**A** LFG VERTICAL EXTRACTION WELL  
M1.01 M2.01



**B** STANDARD LFG VERTICAL WELLHEAD DETAIL  
M2.01 M2.01 (NOTE 2)



**C** PERFORATED WELL CASING DETAIL I  
M2.01 M2.01

1. ALTERNATE SLOT DETAILS MAY BE SUBMITTED IF THE CONTRACTOR HAS PREFERRED FABRICATION OR AVAILABILITY.
2. ALTERNATES TO BE APPROVED BY THE DESIGN ENGINEER.

NOTES:

1. WELL BORE REINFORCEMENT GRATES ARE REQUIRED FOR ALL WELLS AND BOREHOLE ABANDONMENTS IN ORDER TO PROVIDE A SAFEGUARD FROM COLLAPSE OF BACKFILL MATERIAL.
2. AIR AND LIQUID CONVEYANCE STUB-UPS TO BE LOCATED AT EVERY VERTICAL LFG COLLECTION WELL AND WHERE APPLICABLE.
3. CONTRACTOR TO DETERMINE JOINING METHOD FOR WELL CASING. ACCEPTABLE OPTIONS INCLUDE COUPLINGS, FLANGES, OR WELDED SEAMS. JOINING METHOD SELECTED SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER TWO WEEKS PRIOR TO CONSTRUCTION OF CASING FOR APPROVAL.
4. IN PLACE OF TEE, USE A WYE FITTING TO TIE INTO LIQUID CONVEYANCE PIPING.

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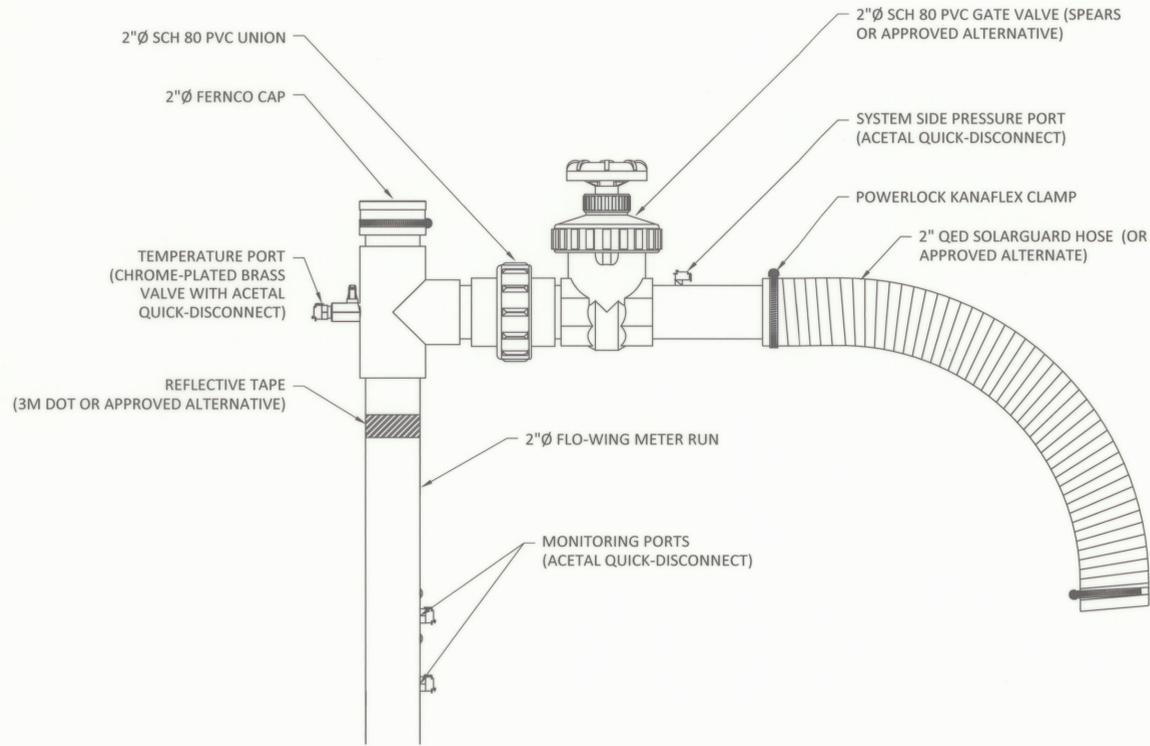
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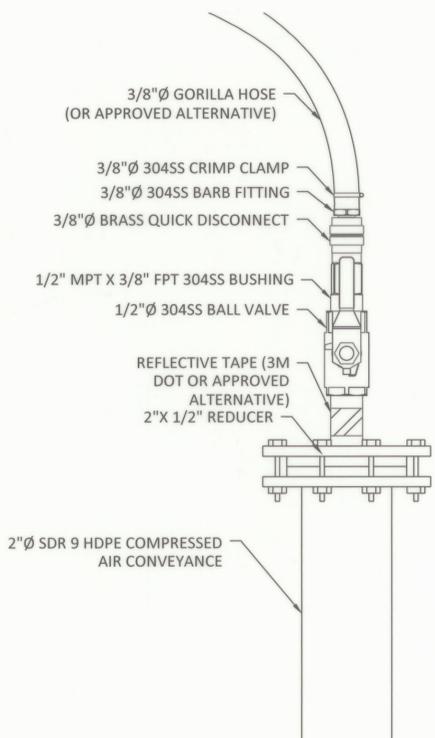
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VERTICAL WELL DETAILS I  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

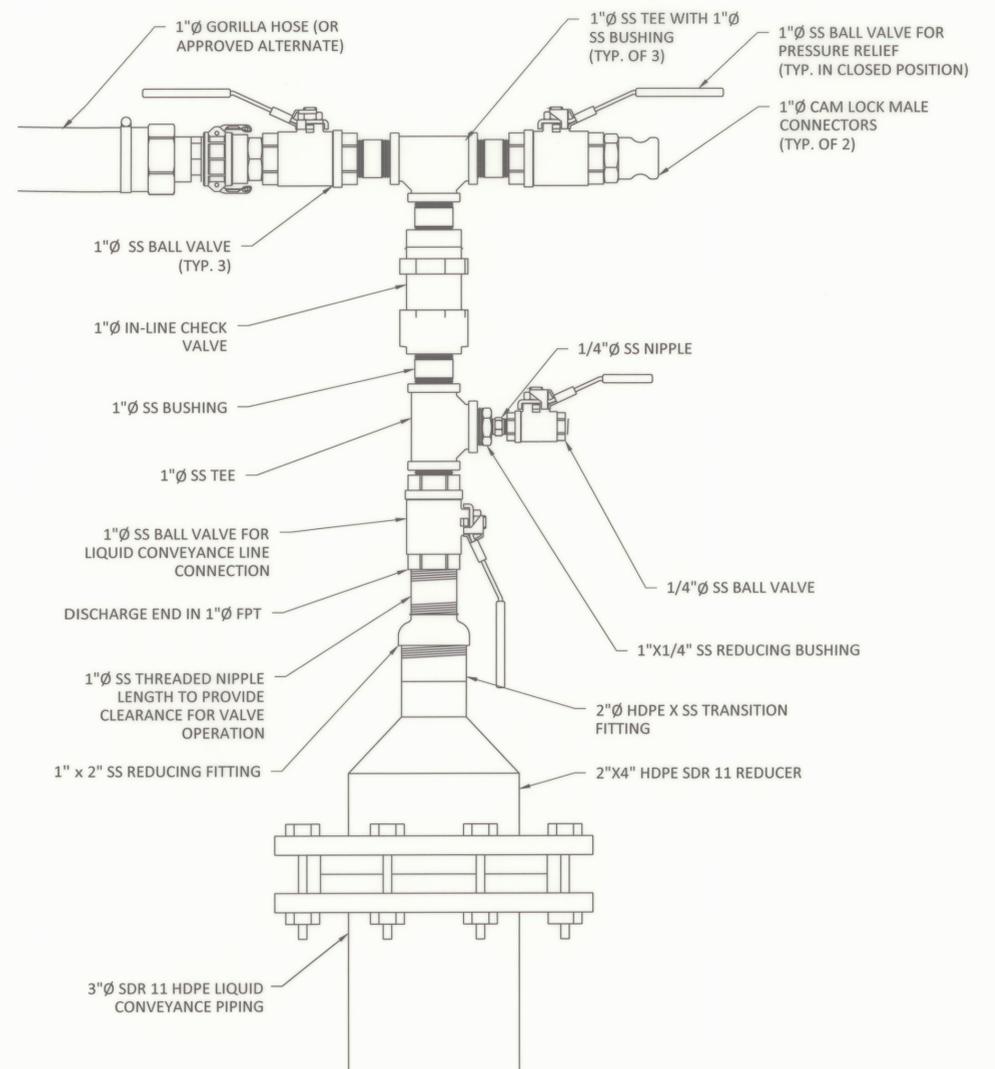
DRAWING NO.  
**M2.01**  
PROJECT NO.  
077.517



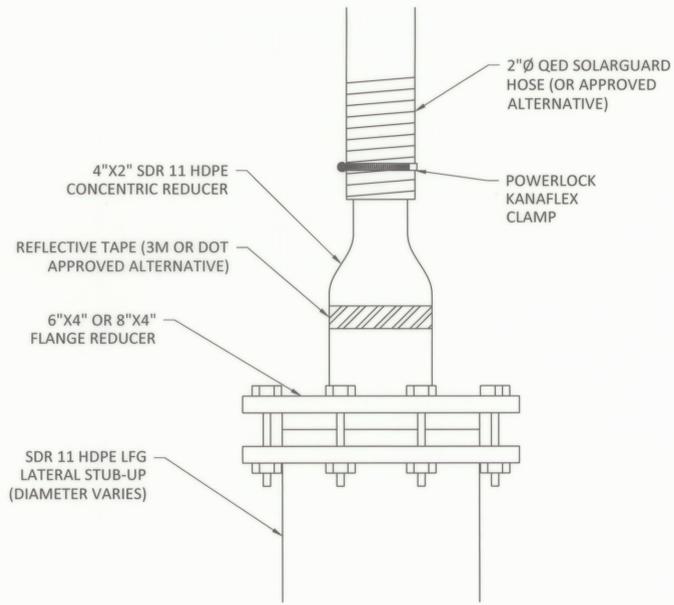
**A** VERTICAL WELLHEAD METER RUN  
M2.01 M2.02



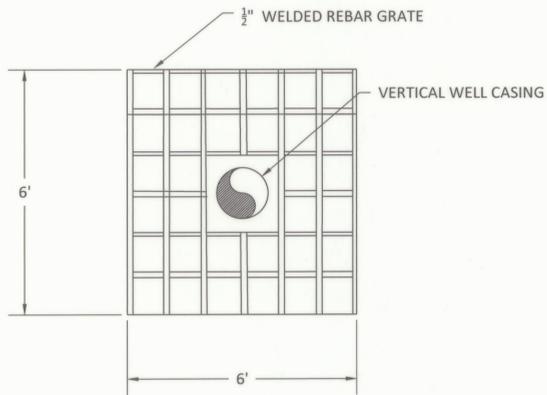
**B** STANDARD AIR CONVEYANCE STUB-UP DETAIL AT WELL  
M2.01 M2.02



**C** STANDARD LIQUID CONVEYANCE STUB-UP DETAIL AT WELL  
M2.01 M2.02



**D** STANDARD LFG LATERAL STUB-UP DETAIL  
M2.01 M2.02



**E** WELL REINFORCEMENT GRATE DETAIL (TOP VIEW)  
M2.01 M2.02

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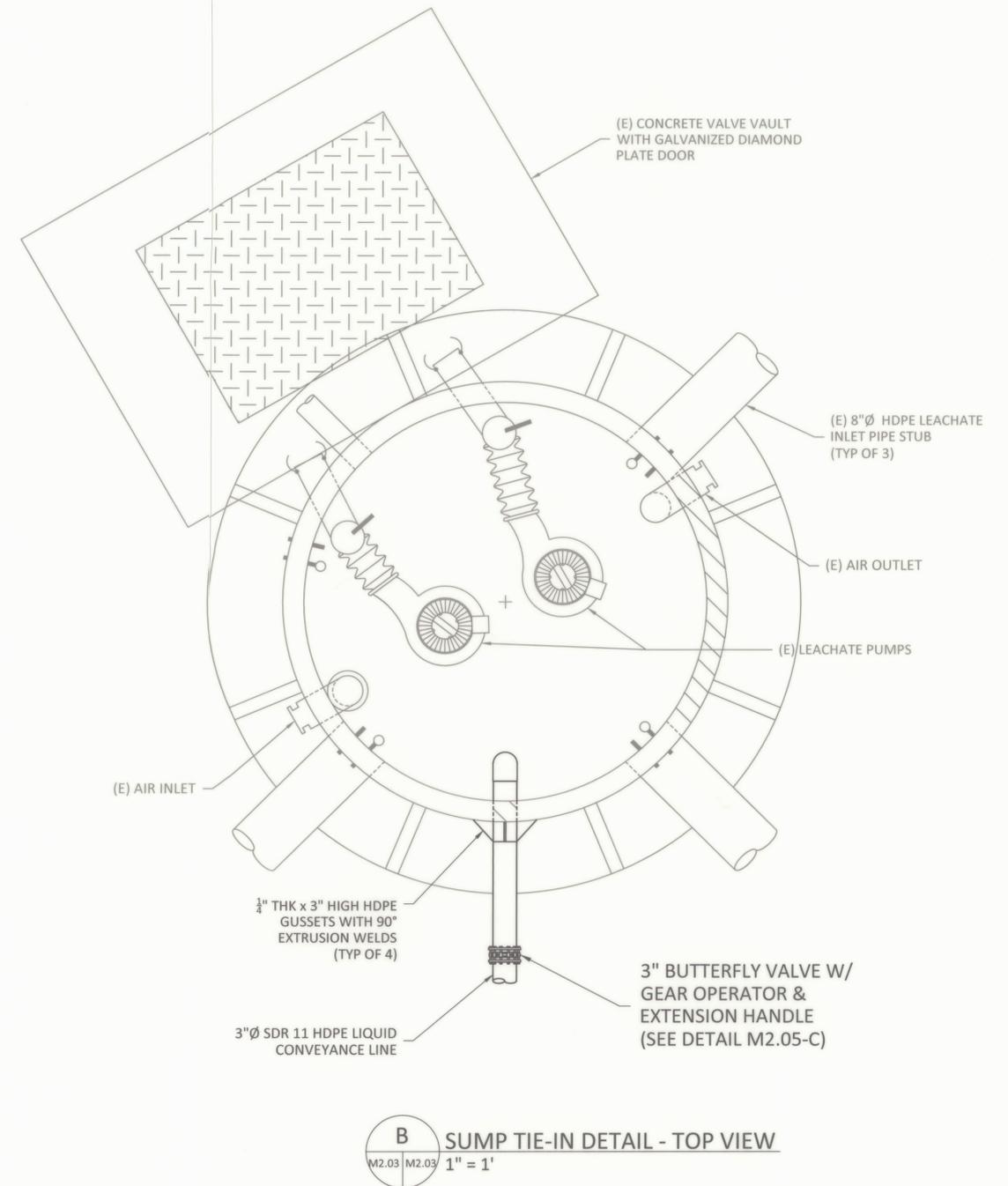
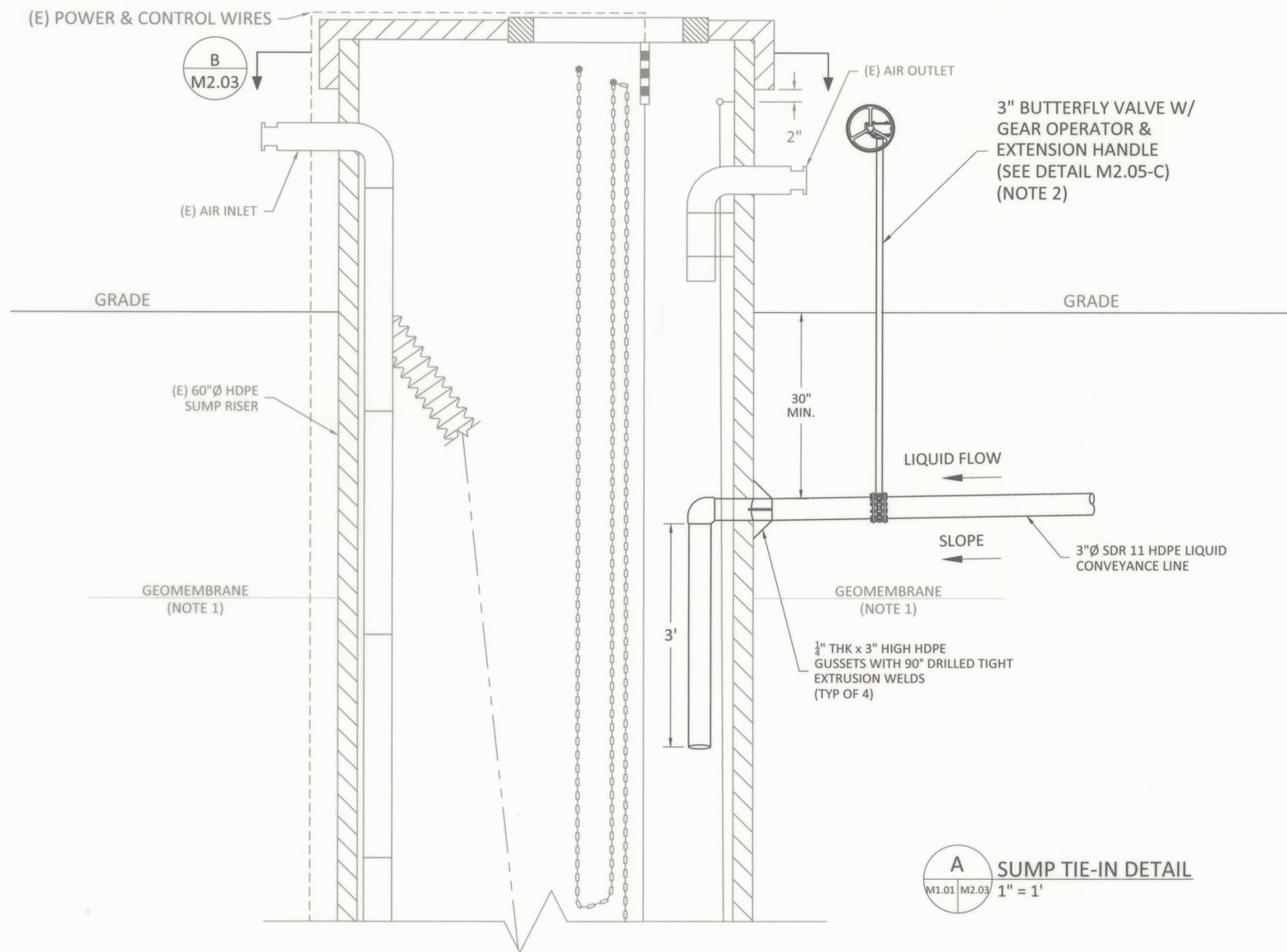
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VERTICAL WELL DETAILS II  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**M2.02**  
PROJECT NO.  
077.517



NOTES:

- EXCAVATION NOT TO INTERFERE WITH THE LANDFILL GEOMEMBRANE.
- THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR APPROVED ALTERNATIVE, AFTER TIGHTENING BOLTS. THOROUGHLY WRAP BURIED VALVES IN PLASTIC WRAP PRIOR TO BACKFILLING.

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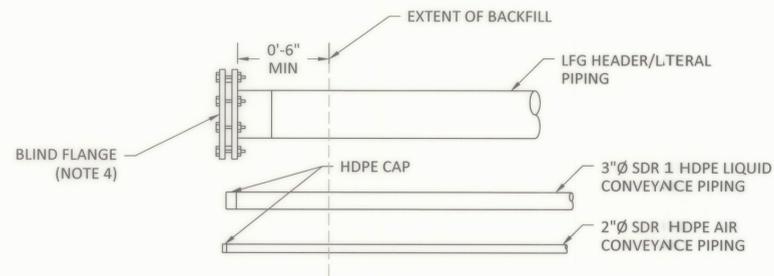
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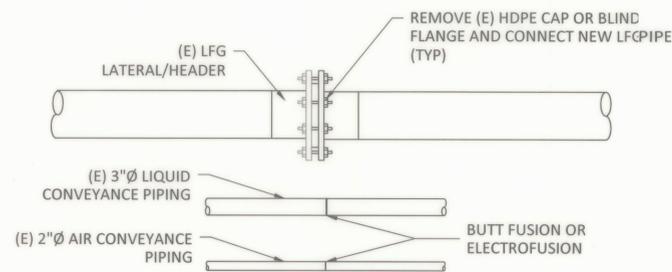
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SUMP DETAILS  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

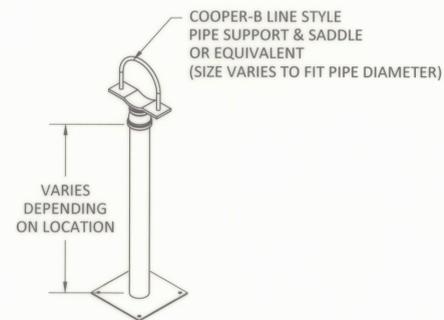
DRAWING NO.  
**M2.03**  
PROJECT NO.  
077.517



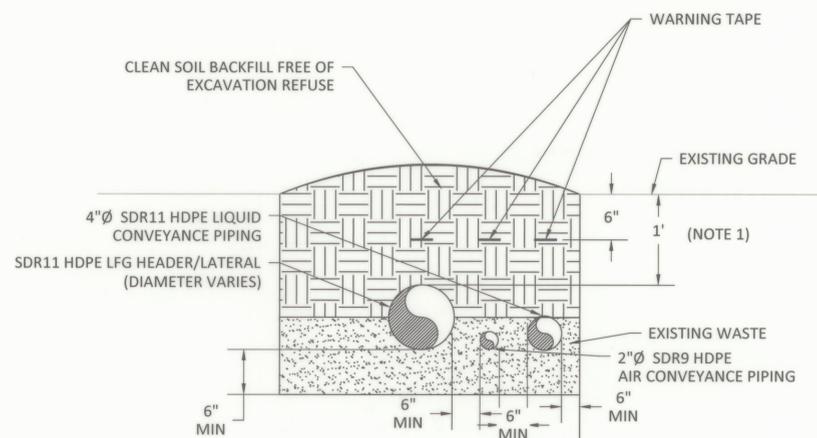
**A** LFG LATERAL, AIR & LIQUID PIPE TERMINATION DETAIL  
M1.01 M2.04



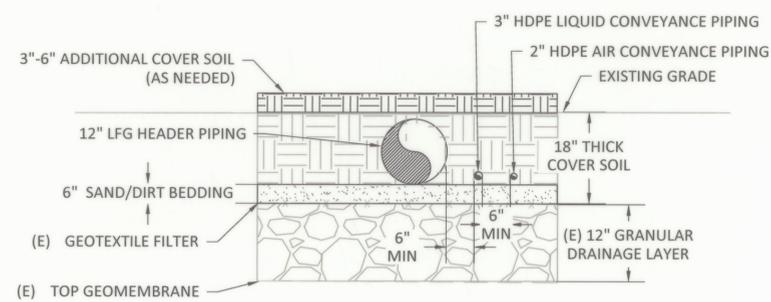
**B** CONNECTION TO LFG LATERAL, HEADER, AIR & LIQUID PIPING FLANGE  
M1.01 M2.04



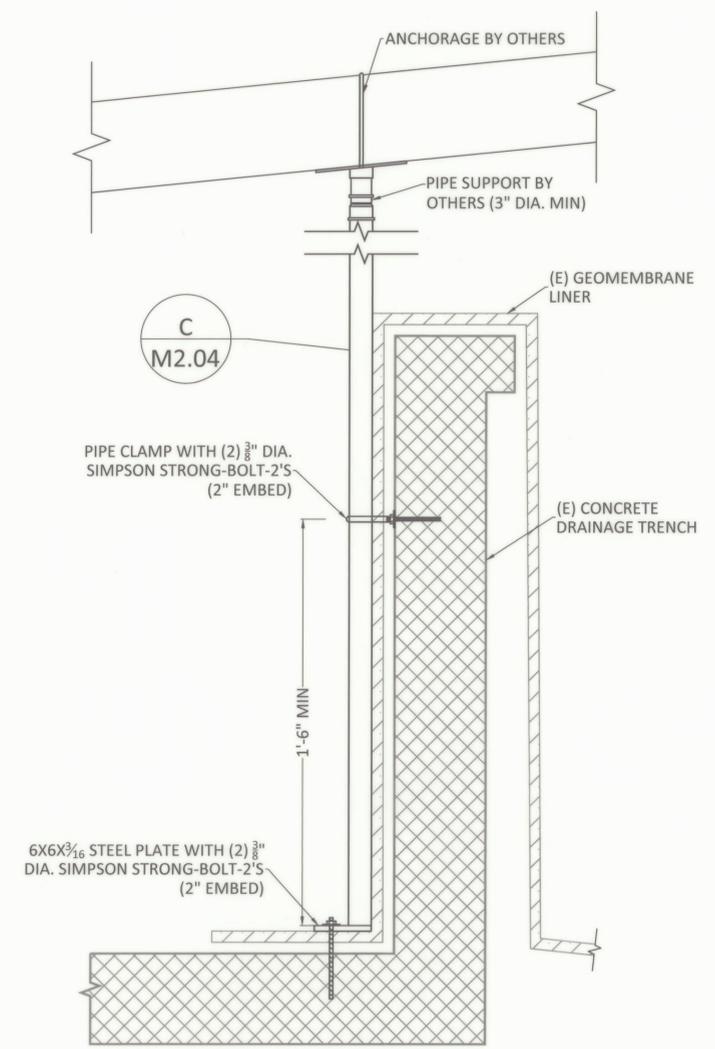
**C** PIPE SUPPORT (AS NEEDED)  
M2.04 M2.04



**D** LFG TRENCH DETAIL  
M1.01 M2.04



**F** CELL 1 LFG TRENCH DETAIL  
M1.01 M2.04



**E** TRENCH PIPE SUPPORT DETAIL  
M2.06 M2.04

- NOTES:
- EXCAVATION NOT TO INTERFERE WITH THE LANDFILL LINER.
  - PROVIDE PIPE SUPPORTS AT A MAXIMUM SPACING OF 8' TO PREVENT SAG IN LFG PIPING AND MAINTAIN A MINIMUM OF 1% SLOPE. ALTERNATIVE METHODS OF PIPE SUPPORT MAY BE USED WITH OWNER OR ENGINEER APPROVAL
  - INSTALL SOIL MOUNDS WHERE NEEDED TO HOLD LFG PIPING IN PLACE.
  - IF TERMINATING INSIDE THE WASTE, PIPE MAY BE TERMINATED WITH AN HDPE CAP (INSTEAD OF BLIND FLANGE)

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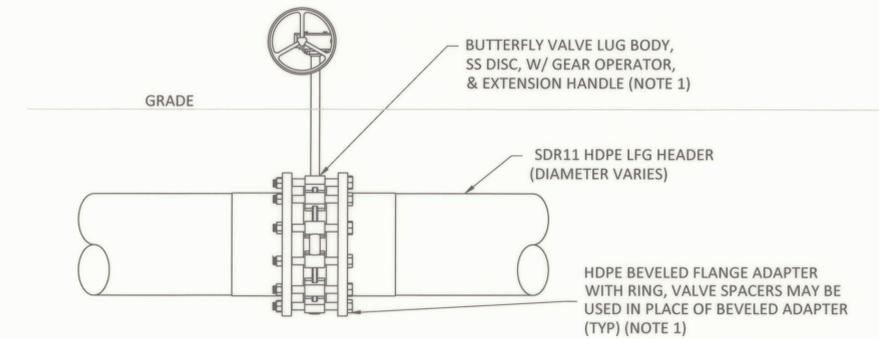
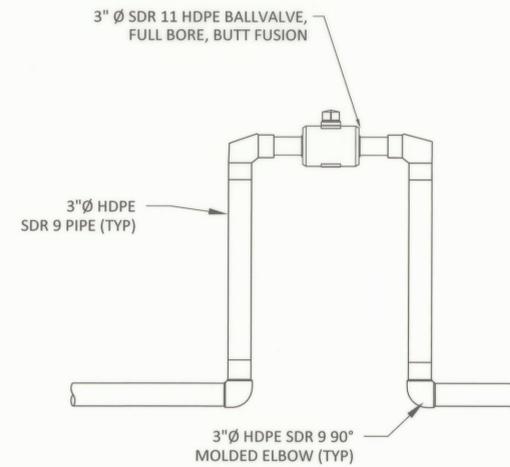
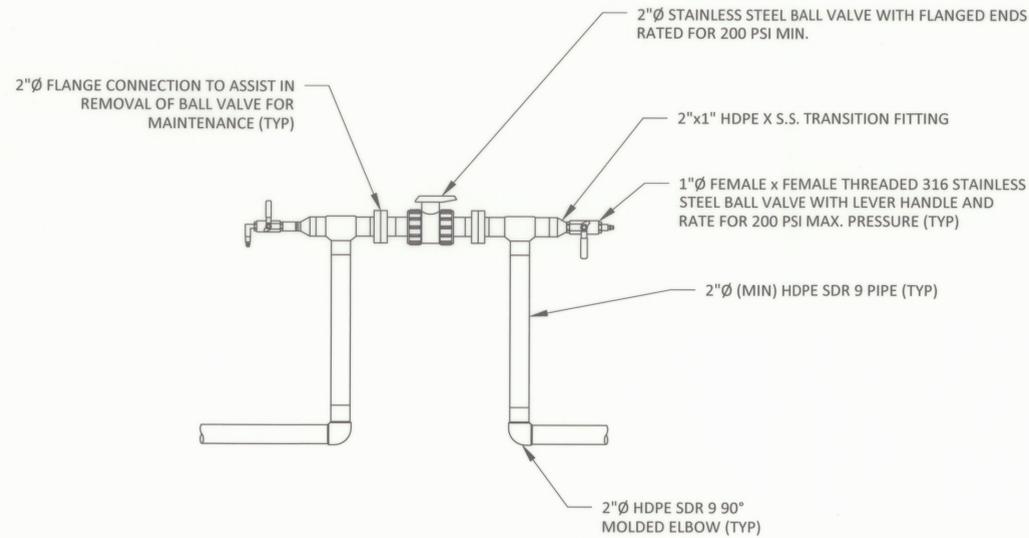


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LFG CONNECTION, PIPE TERMINATION, & TRENCH DETAILS  
PROPOSED 2025 GCCS EXPANSION HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO. **M2.04**  
PROJECT NO. 077.517



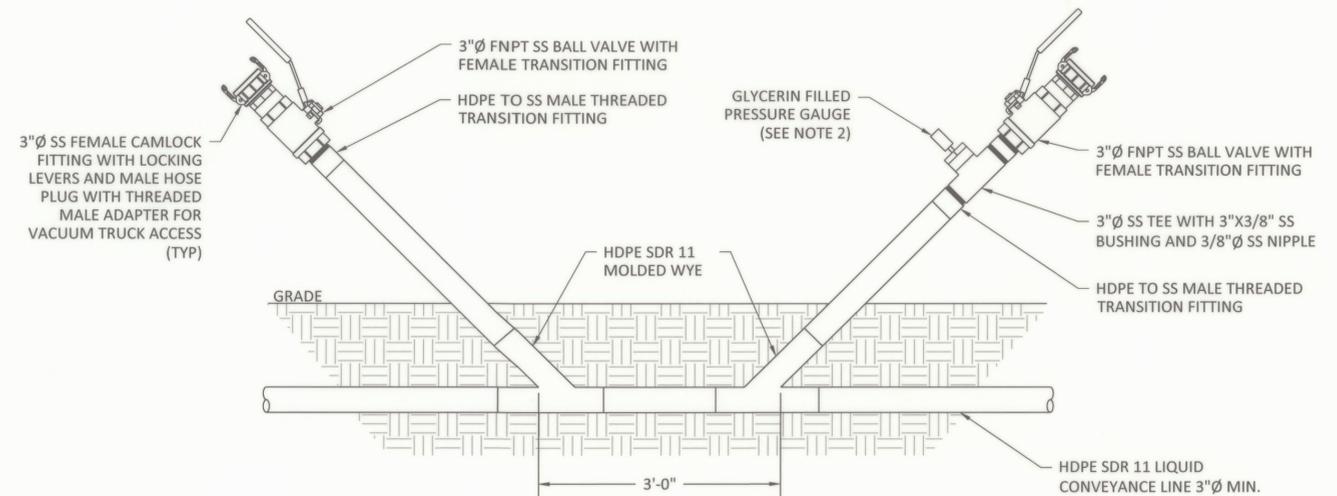
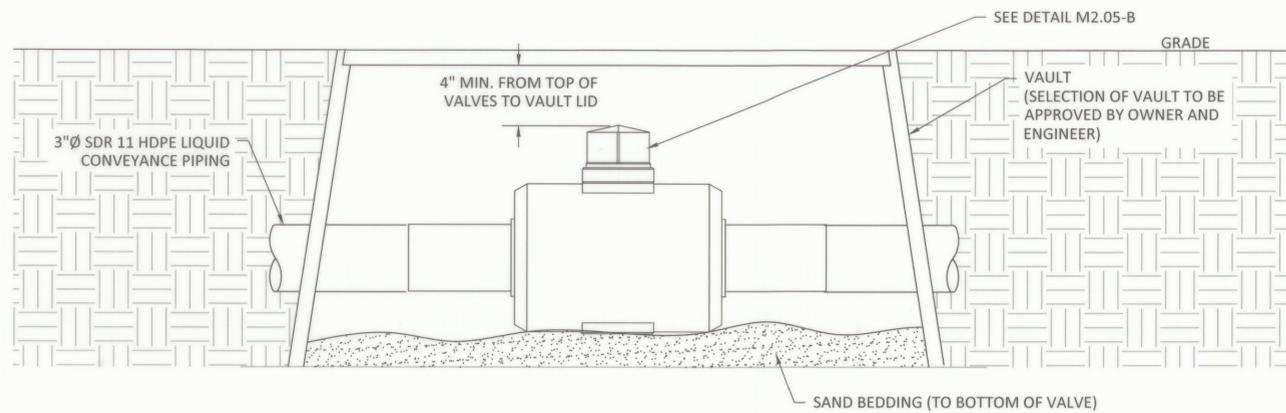
**A** AIR LINE ISOLATION AND BLOWOFF VALVES DETAIL

**B** LIQUID CONVEYANCE LINE ISOLATION VALVE DETAIL

**C** BELOWGRADE LFG ISOLATION VALVE DETAIL

NOTES:

1. ALL AIR SUPPLY PIPING SHALL BE 2" HDPE SDR 9 (MIN).
2. 1" VALVES ARE USED TO BLOW OFF LIQUIDS THAT ACCUMULATE IN THE AIR LINE AND FOR PRESSURIZING PIPE SEGMENTS FOR TROUBLESHOOTING PURPOSES.
3. PVC FITTINGS AND VALVES MAY NOT BE USED IN COMPRESSED AIR APPLICATIONS UNDER ANY CIRCUMSTANCES.



**D** LIQUID CONVEYANCE ISOLATION VALVE VAULT DETAIL

**E** LIQUID CONVEYANCE CLEANOUT

NOTES:

1. THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR APPROVED ALTERNATIVE, AFTER TIGHTENING BOLTS. THOROUGHLY WRAP BURIED VALVES IN PLASTIC WRAP PRIOR TO BACKFILLING.
2. 3/8" SS BALL VALVE AND GLYCERIN FILLED PRESSURE GAUGE (0-200 PSI RANGE).

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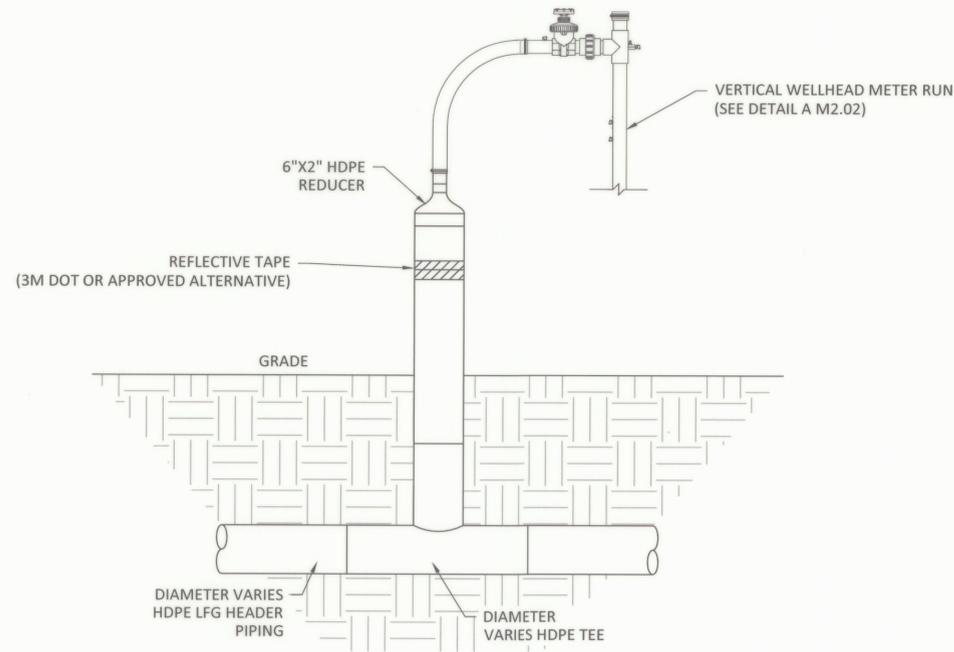


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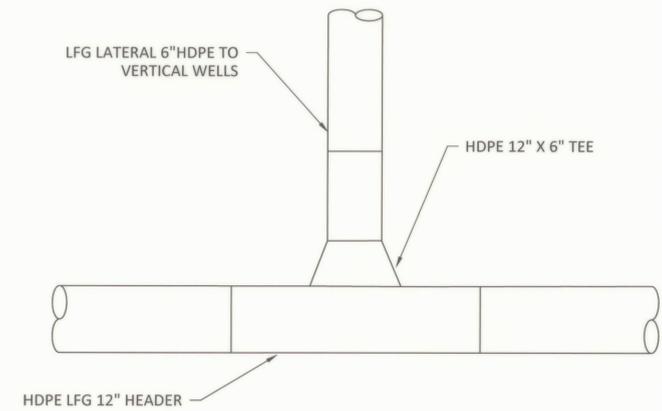


MISCELLANEOUS DETAILS  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

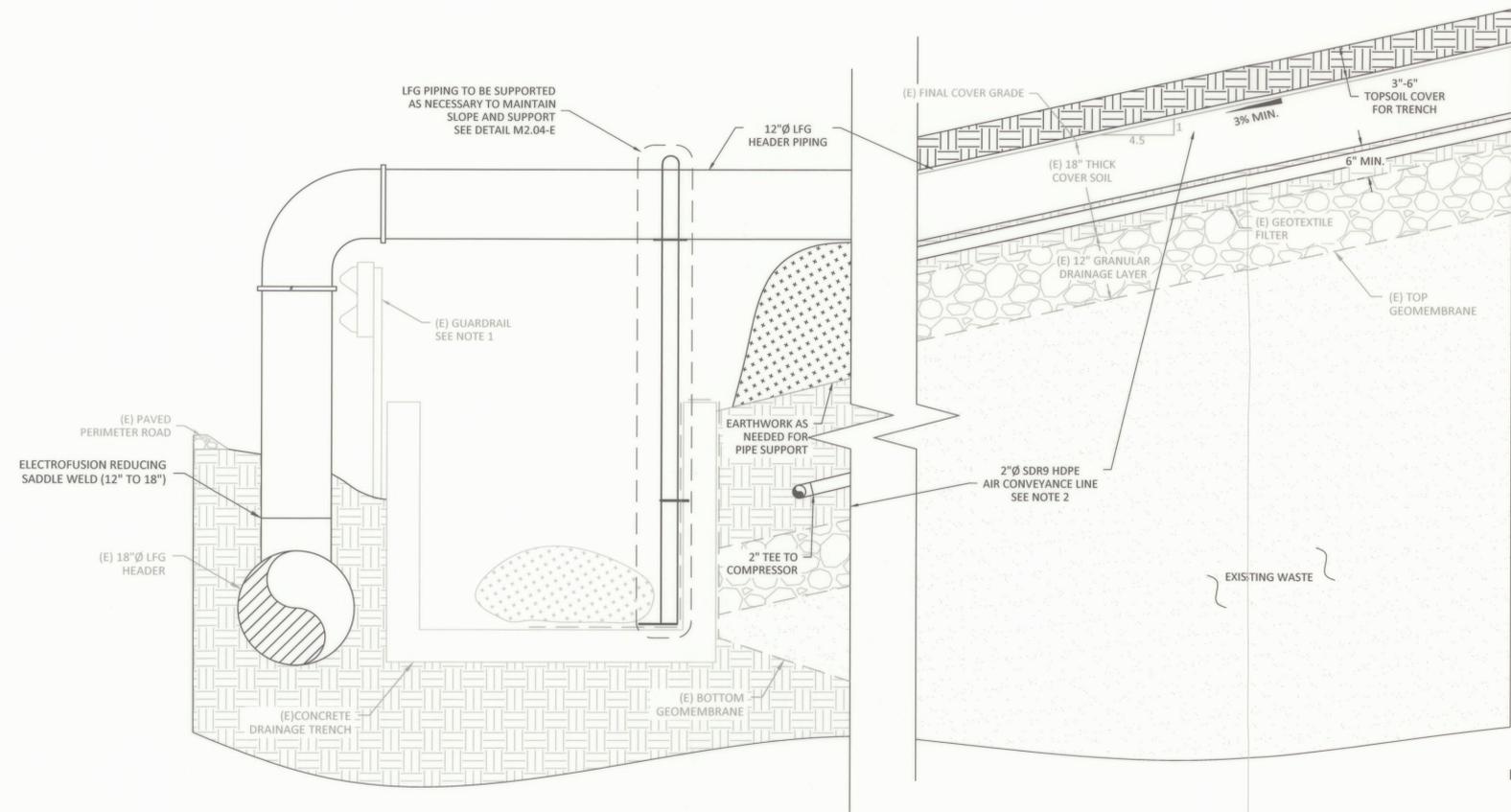
DRAWING NO.  
**M2.05**  
PROJECT NO.  
077.517



**A** WELLHEAD LATERAL AND HEADER TIE-IN DETAIL  
M1.01 M2.06



**B** 6" LATERAL TIE-IN TO 12" LFG HEADER  
M1.01 M2.06



**C** 12" HEADER TIE-IN TO (E) 18" LFG HEADER  
M1.01 M2.06

- NOTES:
- SUPPORT 12" HEADER CROSSING OVER CONCRETE TRENCH AS NEEDED TO MAINTAIN 3% DROP TO ELBOW INTO (E) 18" HEADER
  - AIR CONVEYANCE LINE IS SHOWN BELOW HEADER FOR CLARITY, BUT SHOULD BE TRENCHED SIDE BY SIDE (SEE DETAIL M2.04-F)

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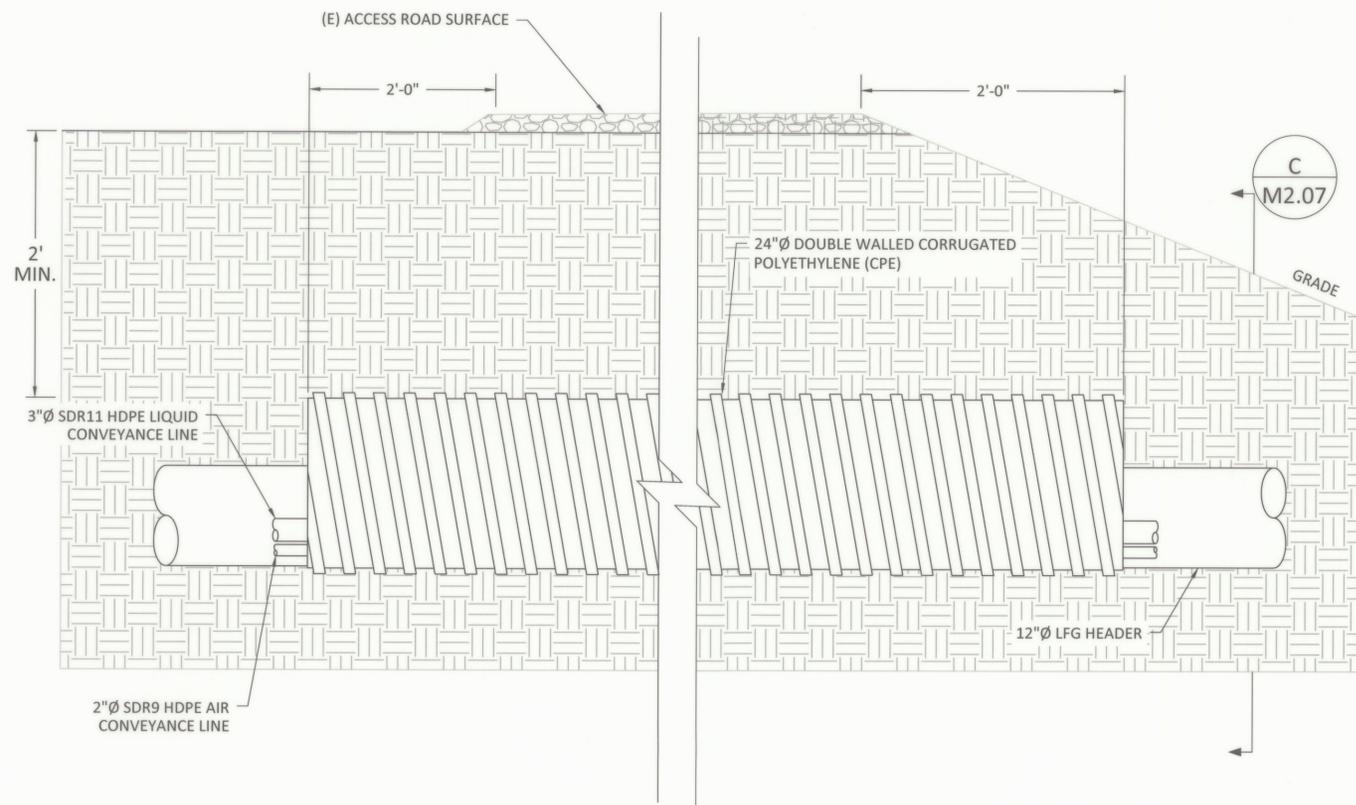


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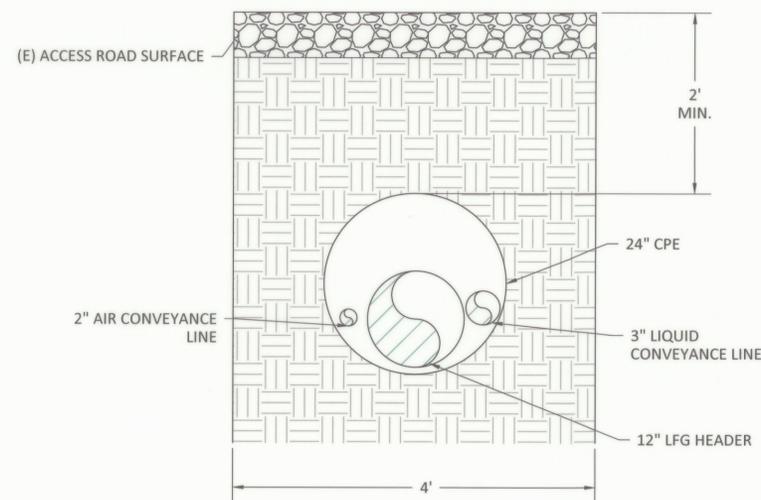


TIE-IN DETAILS  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

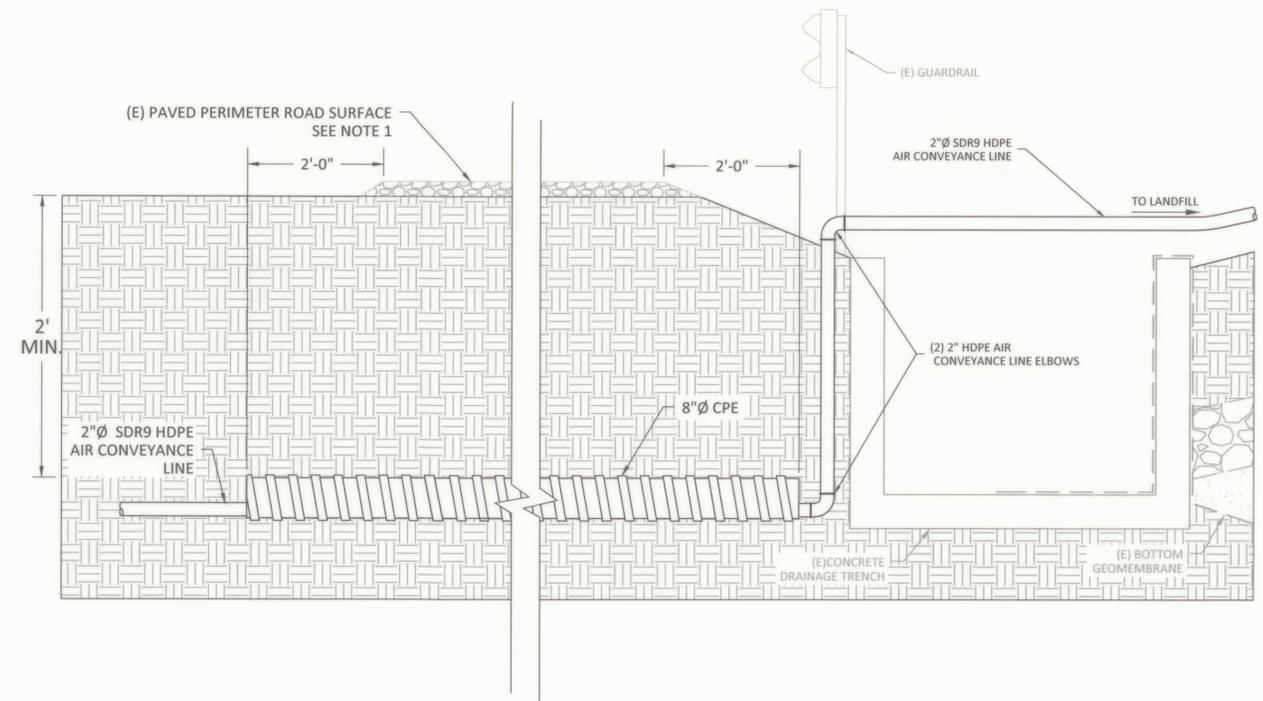
DRAWING NO.  
**M2.06**  
PROJECT NO.  
077.517



**A** ROAD CROSSING - 12" HEADER  
M1.01 M2.07



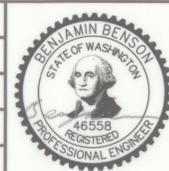
**C** ROAD CROSSING - 12" HEADER CROSS SECTION  
M2.07 M2.07



**B** ROAD CROSSING - 2" AIR LINE  
M1.01 M2.07

- NOTES:
1. PATCH PAVEMENT WITH 4" THICK HMA CLASS 3 PG58H-22 PER COWLITZ COUNTY STANDARD PLAN CC-1303.

|     |         |                |        |        |        |
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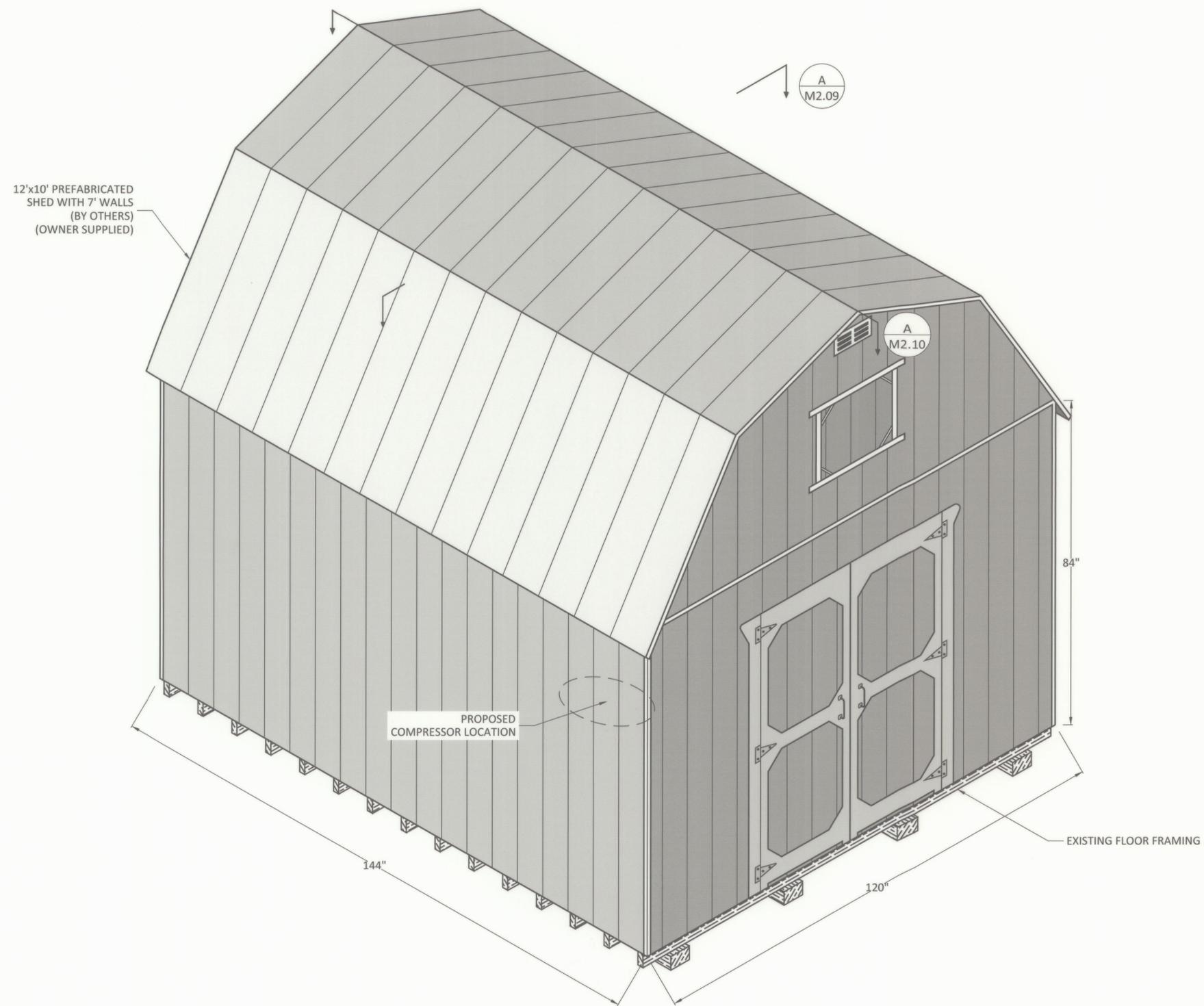


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ROAD CROSSING DETAILS  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**M2.07**  
PROJECT NO.  
077.517



**A** AIR COMPRESSOR HOUSING OVERVIEW  
M1.04 | M2.08

- NOTES:  
1. ALTERNATE COMPRESSOR HOUSING TO BE APPROVED BY OWNER AND ENGINEER

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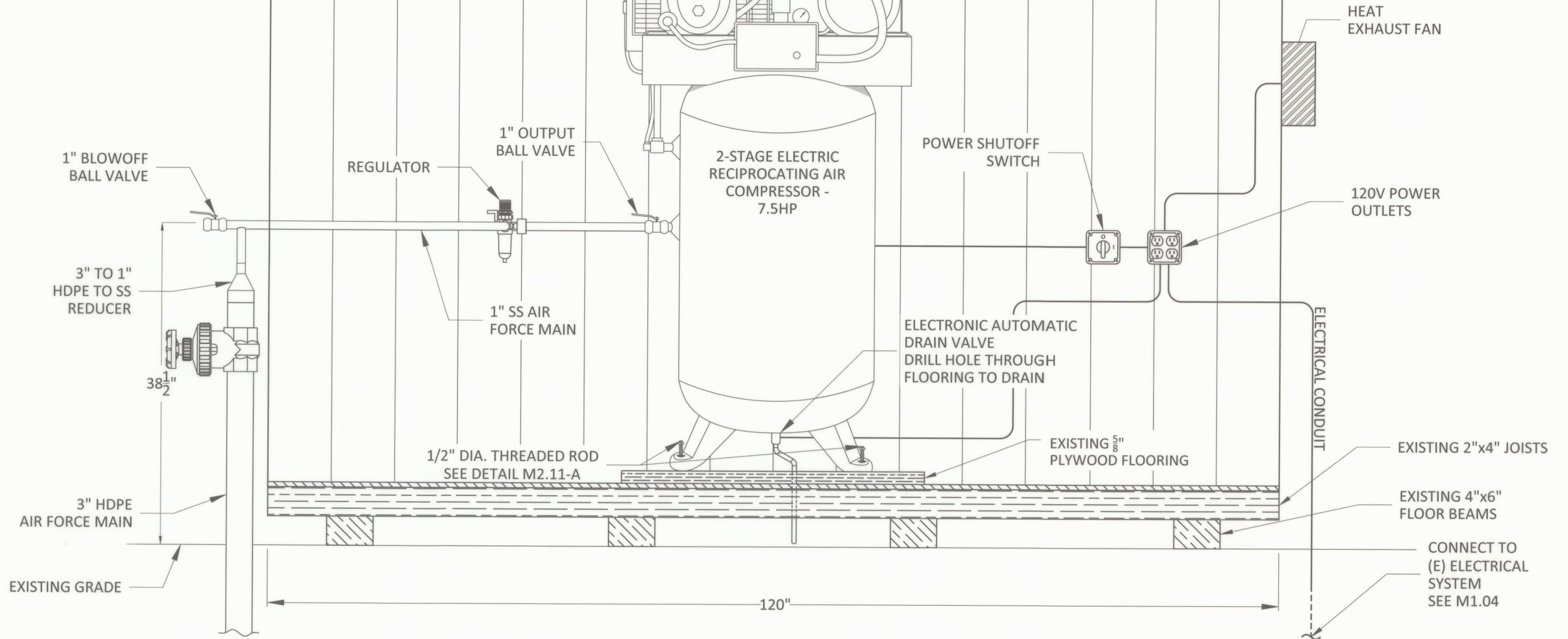
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AIR COMPRESSOR HOUSING  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**M2.08**  
PROJECT NO.  
077.517

**A** AIR COMPRESSOR HOUSING -  
CROSS SECTION I

12'x10' PREFABRICATED  
SHED WITH 7' WALLS  
(BY OTHERS)



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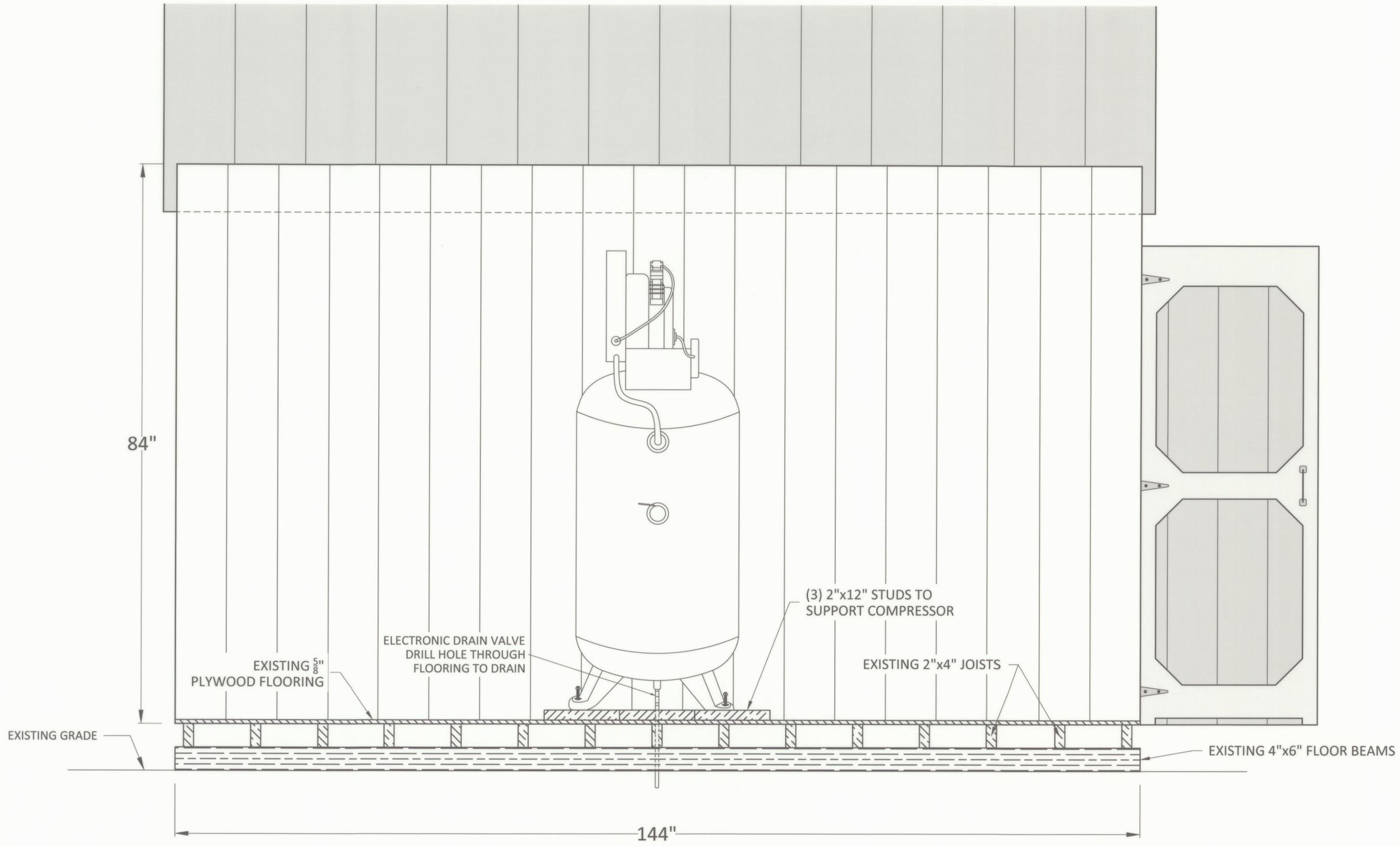
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COMPRESSOR HOUSING -  
CROSS SECTION I  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**M2.09**  
PROJECT NO.  
077.517



A COMPRESSOR HOUSING -  
CROSS SECTION II

| REV | DATE    | DESCRIPTION    | DRN BY | DSN BY | CHK BY |
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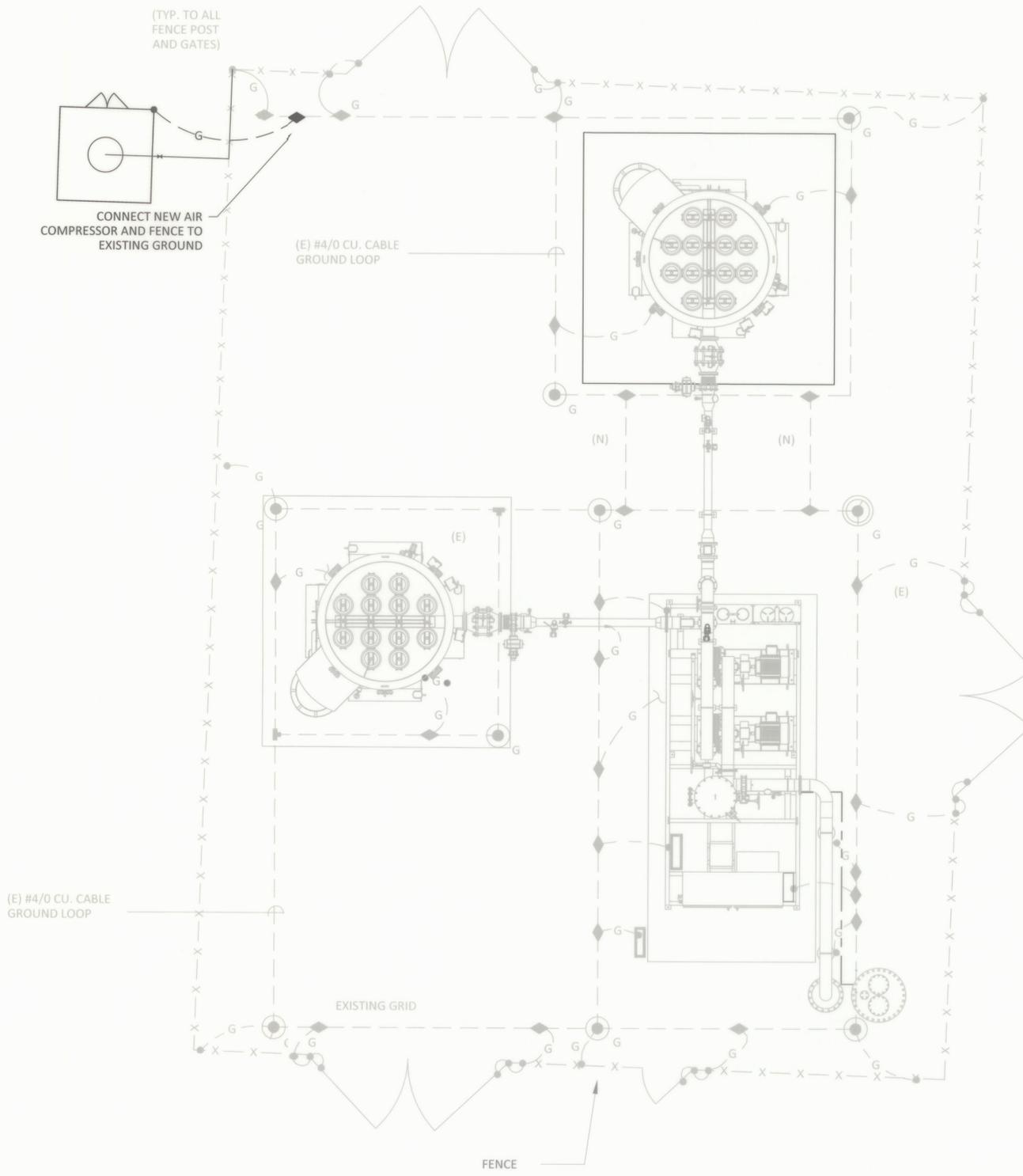


COMPRESSOR HOUSING -  
CROSS SECTION II  
PROPOSED 2025 GCCS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**M2.10**  
PROJECT NO.  
077.517







**SHEET NOTES:**

1. E.C. SHALL PROVIDE ALLOWANCE IN HIS BID FOR 10% ADDITIONAL GROUNDING CONNECTIONS. ENGINEER WILL INDICATE IN FIELD WHERE THESE SHALL BE REQUIRED.
2. DRAWING DOES NOT INCORPORATE ALL BONDING CONNECTIONS. THIS IS A GUIDE ONLY. E.C. SHALL BOND ALL EQUIPMENT FOR SAFE TOUCH POTENTIALS.

**GROUNDING LEGEND:**

- (E) 4/0 SOFT DRAWN STRANDED CU. GROUND LOOP.
- ⊙ (N) 3/4" x 10' COPPER CLAD GROUND ROD WITH GROUND ROD COUPLER AND EXOTHERMIC WELD CONNECTIONS. SEE DETAIL #1, E5.01
- ⊙ (E) 3/4" x 10' COPPER CLAD GROUND RODS WITH GROUND ROD COUPLER AND EXOTHERMIC WELD CONNECTIONS IN TEST WELL.
- G--- (N) #6, SOFT DRAWN STRANDED COPPER CONDUCTOR FOR THE CONNECTION OF EQUIPMENT.
- ◆ (N) EXOTHERMIC WELD

**2 ELECTRICAL GROUNDING PLAN**  
SCALE: NTS

|     |          |                |        |        |        |
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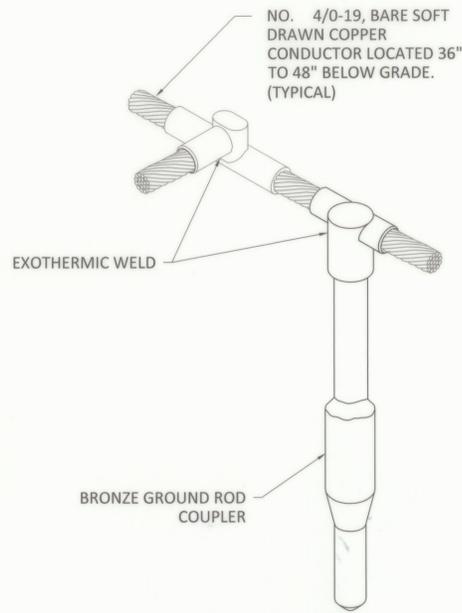
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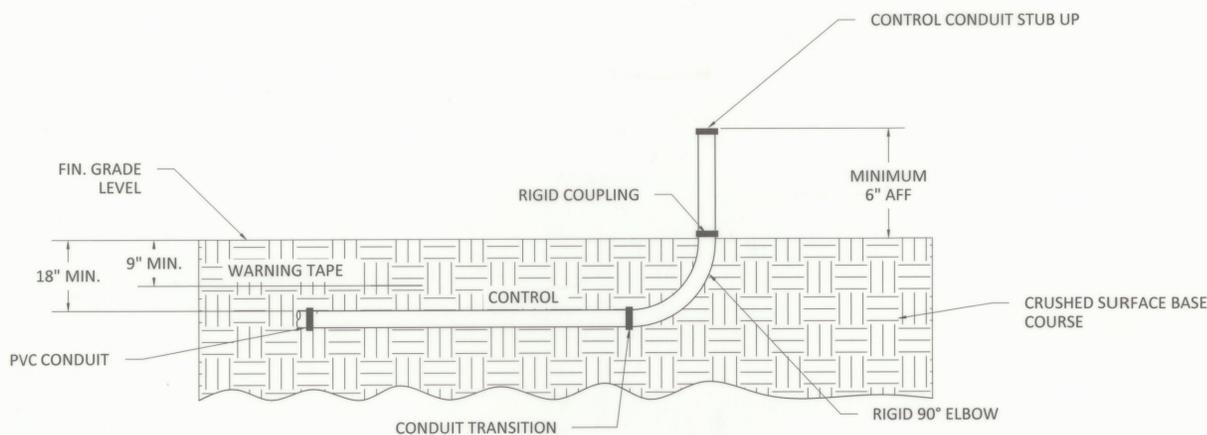
GROUNDING PLAN  
PROPOSED 2025 GCSS EXPANSION  
HEADQUARTERS LANDFILL  
CASTLE ROCK, WA

DRAWING NO.  
**E2.01**  
PROJECT NO.  
077.516

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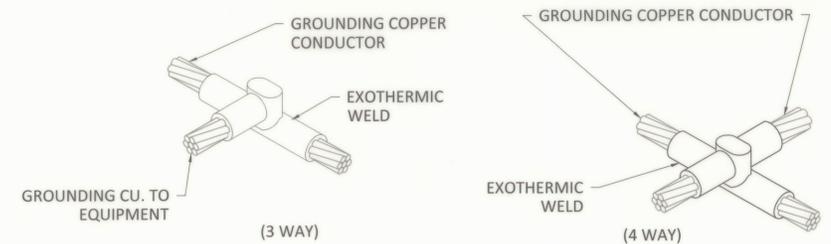


**1** GROUND ROD DETAIL  
SCALE: NTS

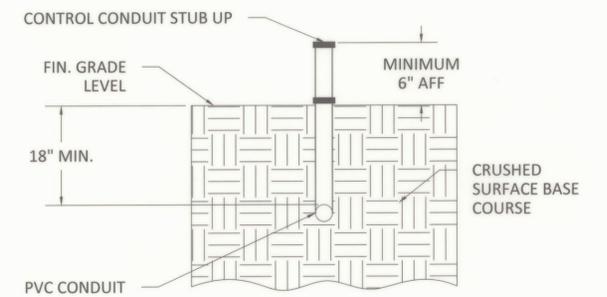


NOTE: EXCAVATION BY CONTRACTOR

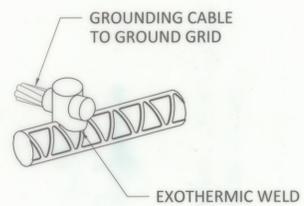
**2** TYPICAL GROUND FILL AND CONDUIT STUB UP DETAIL (OUTDOORS)  
SCALE: NTS



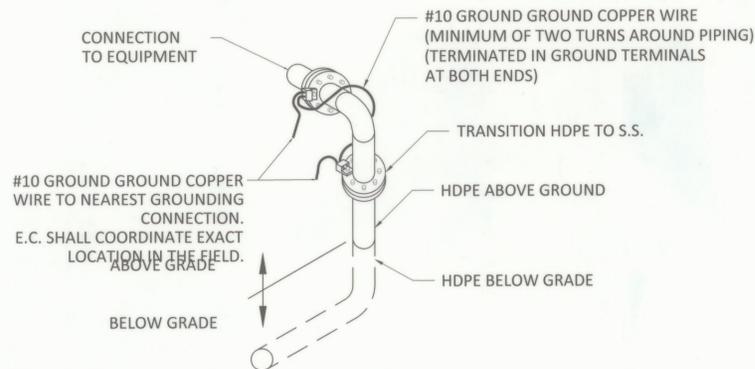
**3** EXOTHERMIC WELD CONNECTION DETAIL  
SCALE: NTS



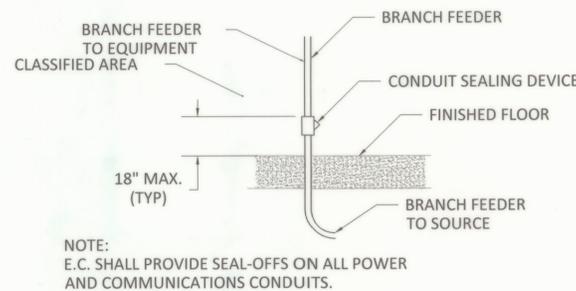
**4** TYPICAL TRENCH DETAIL  
SCALE: NTS



**5** TYPICAL GROUND WIRE TO REBAR CONNECTION  
SCALE: NTS

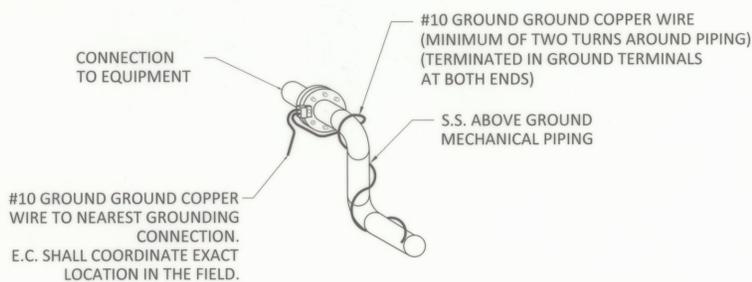


**7** EXPOSED MECHANICAL PIPING (HDPE-STEEL) ELECTRICAL GROUNDING DETAIL  
SCALE: NTS

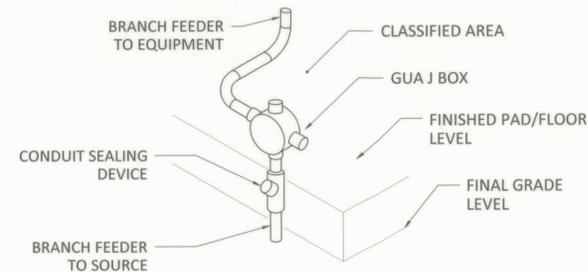


NOTE: E.C. SHALL PROVIDE SEAL-OFFS ON ALL POWER AND COMMUNICATIONS CONDUITS.

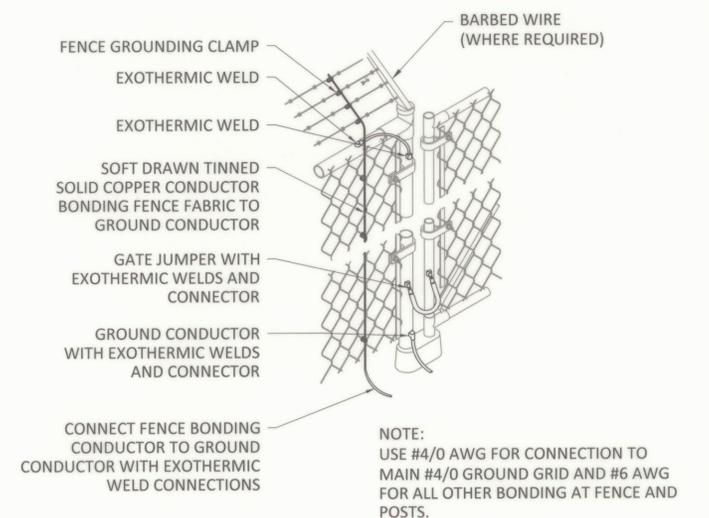
**8** CONDUIT SEAL FOR CLASS I AREAS DETAIL  
SCALE: NTS



**6** EXPOSED MECHANICAL PIPING (STEEL) ELECTRICAL GROUNDING DETAIL  
SCALE: NTS



**9** CONDUIT STUB-UP WITH SEAL FOR CLASS I AREAS DETAIL  
SCALE: NTS



NOTE: USE #4/0 AWG FOR CONNECTION TO MAIN #4/0 GROUND GRID AND #6 AWG FOR ALL OTHER BONDING AT FENCE AND POSTS.

**10** FENCE/SWING GATE GROUND DETAIL  
SCALE: NTS

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ELECTRICAL DETAILS  
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