

ADDENDUM NUMBER 2 – JULY 22, 2024

AUGUSTA REGIONAL LANDFILL – LFGCCS EXPANSION

SOLID WASTE PERMIT NO. 21 AND NO. 585

STAUNTON, VIRGINIA

Prospective Bidders are hereby advised of the following revisions to the Bid Documents for the subject Project:

- The addition of answers to questions asked during the bid process as part of this Addendum
- The following changes were made to the Drawings
 - Note No. 15 on Sheet No. 1 has been modified to reference a leachate seep repair detail.
 - Changes to the proposed silt fence installation have been made to Sheet No. 3A.
 - A callout for the installation of landfill gas collection piping in a common trench with airline and liquids forcemain has been added to Sheet No. 6A.
 - Profiles on Sheet No. 7A, Sheet No. 7B, and Sheet No. 7C have been revised to reflect a minimum pipe depth of 3 feet. Additional notes have also been added to these sheet.
 - Wellhead and piping dimensions in Detail No. 6 on Sheet No. 8 have been revised.
 - Detail No. 1 and Detail No. 2 on Sheet No. 9, has been revised to reflect a minimum pipe depth of 3 feet.
 - Descriptions of soil layers in Detail No. 1 on Sheet No. 11 have been revised.
 - Detail No. 1 has been added to new Sheet No. 12 to incorporate a gravity drain connection to existing manhole detail.
 - Detail No. 2 has been added to new Sheet No. 12 to incorporate a gravity drain detail.
 - Detail No. 3 has been added to new Sheet No. 12 to incorporate a leachate seep repair detail.
 - Callouts for stormwater culvert details have been revised to reflect the correct detail, Detail No. 4 on Sheet No. 11.



Addendum Number 2 - LFGGCCS Expansion

July 22, 2024

Page 2

- Profiles of the stormwater culverts have been added to new Sheet No. 13 and new Sheet No. 14.
- The following changes were made to Section 00 52 13 – Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)
 - Article 7.01.A.6 was revised to reflect the number of sheets and revision date of the revised drawings.
- The following changes were made to Section 00 41 13 – Bid Form
 - Addendum 2 was added to the table in Item 5.3.

This Addendum must be identified in Item No. 5.3 of Section 00 41 13 Bid Form.

The deadline for receiving sealed Bids has **not** changed and is still 2:00 local time on the 2nd day of August 2024 at 18 Government Center Lane, Verona, VA 24482, as stated in Section 00 11 10 Invitation to Bid.

AUGUSTA REGIONAL LANDFILL
SOLID WASTE PERMITS 21 & 585 – LFGCCS EXPANSION
PRE-BID QUESTIONS AND ANSWERS

The following questions have been received to date and SCS' answers are shown below. Similar questions have been grouped together and questions may have been lightly edited for clarity.

Question 1: *Will a pre-bid meeting attendee's list or plan holder's list be provided?*

Answer: The pre-bid meeting minutes and sign-in sheet were included in Addendum No 1.

Question 2: *Can you provide information about a specific potential bidder's intent to bid?*

Answer: The Augusta Regional Landfill does not attempt to predict whether or not a potential bidder intends to bid.

Question 3: *On Sheet No. 1 General Note No. 15 states: Contractor shall address all leachate seeps within the project area during construction. Should the cost of addressing leachate seeps be included in the bid price?*

Answer: As stated in Paragraph 5.1.1.3 and Paragraph 5.1.2.9 of Section 01 20 00: "The cost of...managing leachate seeps shall be included in the Lump Sum Price". These paragraphs refer to Bid Item No. 3 and Bid Item No. 9. Repair of leachate seeps is a part of site restoration required by Article 5.02.C of the General Conditions.

Question 4: *Will a separate bid item be included for the cost of addressing leachate seeps?*

Answer: No.

Question 5: *Is the contractor to install a 4" Gravity Line from CS-4, CS-5, and CS-7 to the existing manhole vaults shown? Can a detail for these lines be provided?*

Answer: Yes. Detail 2 on Sheet No. 12 has been added for the installation of the 4-inch gravity line.

Question 6: *Can a detail be provided for the connections to each of the existing manholes/vaults?*



Answer: A typical detail for connection to the existing manholes/vaults has been added to the drawings. The new detail is Detail 1 on Sheet No. 12.

Question 7: Detail 1 on Sheet No. 9 references Sheet No. 6A, but there was not a call-out for Detail 1 Sheet No. 9 on Sheet No. 6A. What is this detail referring to?

Answer: Detail 1 on Sheet No. 9 is the typical detail for the installation of Landfill Gas Collection piping in a common trench with airline and liquids forcemain. The detail should be used when landfill gas collection piping, airline, and liquids forcemain are shown running parallel to one another (i.e. in a common trench). Bidders should be familiar with this type of installation. A callout has been added to Sheet 6A for clarity.

Question 8: The callout for the stormwater culvert detail references Detail 4 on Sheet No. 10. Detail 4 on Sheet No. 10 shows an Access Riser Detail. Where is the detail for the stormwater culvert?

Answer: The callouts for the stormwater culverts have been corrected to reference Detail 4 on Sheet No. 11.

Question 9: Can profiles of the stormwater culverts be provided?

Answer: Profiles of the stormwater culverts have been added to new Sheet No. 13 and new Sheet No. 14.

Question 10: Detail 4 Note 1 on Sheet No. 11 indicates that the selected contractor should replace undesirable material with crushed stone. How should pricing of the crushed stone be addressed in the bid?

Answer: The cost of crushed stone backfill below the stormwater culvert should be included in the lump sum cost for Bid Item No. 12. No additional payment will be made for additional backfill.

Question 11: Extraction Well 25 on Sheet No. 6B is labeled as an Extraction Well, but has a symbol for a remote well. Is Extraction Well 25 an extraction well or a remote well?

Answer: Remote wells are extraction wells that utilize a construction technique in which the wellhead is located upgradient of the well as shown in Detail 3 on Sheet 10. Accordingly, Well 25 should be drilled where the remote well symbol is shown, and its wellhead installed adjacent to the 8-inch landfill gas collection piping. This technique allows condensate that builds up in the 4-inch collection piping to drain back into the extraction well without the use of an additional sump. The 4-inch collection piping for a remote well should be placed at a minimum 4% slope so that liquids drain

from the wellhead to the extraction well. The wellhead should be at an elevation above both the 8-inch collection piping and the extraction well. Except for the change in wellhead location and connection arrangement, the drilling and construction of a remote well should be the same as any other extraction well. Bidders should be familiar with the conditions which necessitate a remote wellhead installation and the construction methods used for a remote well.

Question 12: Detail 6 on Sheet No. 8 shows 1-inch wellheads and pipe for the landfill gas vent conversions. Should 1-inch wellheads and pipe be used for landfill gas vent conversions?

Answer: Detail 6 on Sheet No. 8 has been revised. The LFG vent conversions should still utilize 1-inch wellheads. The flexible PVC piping and header connections are typically 2-inch diameter with wellheads manufactured by QED Environmental Systems, as shown on the revised detail. If a contractor wishes to propose an alternative to this configuration they may do so during the submittal process. Adjustments to the size of the piping necessitated by the selection of a particular wellhead manufacturer should be made at no additional cost to the owner.

Question 13: Detail 1 Note 3 on Sheet No. 11 refers to infiltration layer soil. What does infiltration layer soil refer to?

Answer: Infiltration layer soil refers to the compacted soil cap layer as shown in the Detail. Both of these labels may be used interchangeably throughout the drawings and specifications.

Question 14: Is there sufficient quantity of soil in onsite borrow sources that are available to the contractor and will meet the requirements of Paragraph 1.5.1 of Section 31 05 13, Compacted Soil Cap Layer?

Answer: The owner makes no representation about the quantity or quality of soil materials on site. The selected contractor should be able to provide soil from offsite if they are unable to effectively manage soil during excavation.

Question 15: If during trenching and excavation through the existing Soil Cap on the Solid Waste Permit No. 21 Landfill there is found to be less than 18 inches of Compacted Soil Cap Material, how should the existing final cover be restored?

Answer: Bidders should anticipate restoring materials to the same thicknesses encountered during excavation. Existing material thicknesses will be determined based on adjacent final cover thicknesses observed in the excavation.

Question 16: If the constructed alignment of the landfill gas collection piping in Phase 4 of Solid Waste Permit No. 585 differs from the conceptual alignment on Sheet No. 6B, will the selected contractor be paid for these modifications?

Answer: Bidders should anticipate making modifications to the proposed alignment to maintain the required landfill gas collection system slopes at no additional cost to the owner.

Question 17: Is the contractor required to provide an independent firm to provide all testing listed under CQC Frequency in Table 31 00 00-1 or Section 31 00 00 of the Project Specifications?

Answer: Yes.

Question 18: Is the contractor expected to mow the seeded areas as outlined in Paragraph 1.3.2 and Paragraph 4.1.5 of Section 32 90 00 of the Project Specifications?

Answer: Yes the contractor will be required to maintain the newly seeded areas and should mow them by the end of the 1-year maintenance period.

Question 19: In some cases the gap between sections of silt fence where silt fence breaks are designated on Sheet No. 3A and Sheet No. 3B is greater than the minimum 10-foot length shown in Detail 8 on Sheet No. 5. How long should the silt fence breaks be at these locations?

Answer: The silt fence break may be limited to 10 feet as long as the silt fence break is aligned with the low point on the silt fence to allow stormwater to effectively discharge. The contractor should provide silt fence to supplement the 10-foot width of the silt fence break, between the end of the silt fence as shown in plan view and the silt fence break. There should not be a gap between the silt fence and silt fence break. Additional silt fence utilized between the limits of the silt fence in plan view and the silt fence break shall be at no additional cost to the owner.

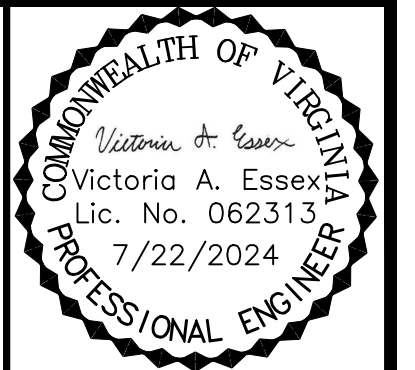
Question 20: Are subcontractors required to complete a site visit?

Answer: Subcontractors are not required to visit the site prior to the bid opening as long as the prime contractor has visited the site or attended the Pre-Bid meeting.

AUGUSTA REGIONAL LANDFILL SOLID WASTE PERMITS #21 & #585

LANDFILL GAS COLLECTION AND CONTROL SYSTEM EXPANSION

AUGUSTA COUNTY, VIRGINIA



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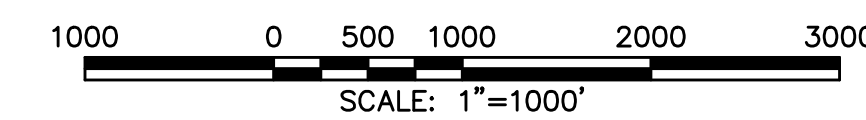
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| SHEET TITLE | COVER SHEET |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

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| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
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| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TURNPIKE - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433 | APP. BY: VAE |
| | CHK. BY: VAE |
| Q/A BY: CJV | CHK. BY: VAE |
| OWN. BY: HGW | CHK. BY: VAE |
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| SHEET | DRAWING NO. | SHEET TITLE |
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| 1 | 0 | COVER SHEET |
| 2 | 1 | GENERAL NOTES |
| 3 | 2A | EXISTING CONDITIONS SWP #21 |
| 4 | 2B | EXISTING CONDITIONS SWP #585 |
| 5 | 3A | EROSION AND SEDIMENT CONTROL PLAN SWP #21 |
| 6 | 3B | EROSION AND SEDIMENT CONTROL PLAN SWP #585 |
| 7 | 4 | ESC PLAN NOTES AND DETAILS |
| 8 | 5 | ESC PLAN DETAILS |
| 9 | 6A | PROPOSED LFG SYSTEM SWP #21 |
| 10 | 6B | PROPOSED LFG SYSTEM SWP #585 |
| 11 | 7A | PROPOSED LFG HEADER PROFILE 1 |
| 12 | 7B | PROPOSED LFG HEADER PROFILE 2 |
| 13 | 7C | PROPOSED LFG HEADER PROFILE 3 |
| 14 | 8 | WELL SCHEDULE AND DETAILS |
| 15 | 9 | LFG SYSTEM DETAILS 1 |
| 16 | 10 | LFG SYSTEM DETAILS 2 |
| 17 | 11 | LFG SYSTEM DETAILS 3 |
| 18 | 12 | LFG SYSTEM DETAILS 4 |
| 19 | 13 | STORMWATER CULVERT 1 |
| 20 | 14 | STORMWATER CULVERT 2 |



LOCATION MAP

PREPARED FOR:

AUGUSTA WATER
P.O. BOX 859
VERONA, VIRGINIA 24482

AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VIRGINIA 24401

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

11521 MIDLOTHIAN TURNPIKE, SUITE 305
MIDLOTHIAN, VIRGINIA 23113-7313
PH. (804) 378-7440 FAX. (703) 471-6676
WWW.SCSENGINEERS.COM

SCS PROJECT NO. 02208015.37/38

MAY 14, 2024
REVISED JULY 22, 2024

GENERAL NOTES:

1. THE CONTRACTOR WILL BE DESIGNATED AS THE RESPONSIBLE LAND DISTURBER AND MUST BE CERTIFIED TO CARRY OUT THAT TASK. CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS. IF NOT OTHERWISE STIPULATED CONTRACTOR SHALL NOTIFY AUGUSTA COUNTY AT LEAST 24 HOURS PRIOR TO STARTING WORK.
2. LOCATION OF EXISTING SEWER, WATER, OR GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS. IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF A UTILITY NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL OBTAIN FIELD UTILITY LOCATIONS.
3. DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO OWNER.
4. EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO LIKE-NEW CONDITION.
5. THE CONTRACTOR IS REQUIRED TO MAINTAIN DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
6. CONTRACTOR SHALL HAVE AN APPROVED SET OF PLANS AND PERMITS ON SITE AT ALL TIMES DURING CONSTRUCTION. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY THE OWNER.
7. EXISTING VEGETATION THAT IS TO BE PRESERVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY PROTECTED VEGETATION DAMAGED BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL LINER AND CAP ELEMENTS AT ALL TIMES. ANY REPAIRS REQUIRED DUE TO ANY TYPE OF DAMAGE WILL BE COMPLETED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR IS SOLEY RESPONSIBLE FOR MAINTAINING MEMBRANE, GEOTEXTILE, GEOCOMPOSITE, AND/OR RAIN TARP AND PROTECTING THESE MATERIALS FROM WIND DAMAGE THROUGH PROPER BALLASTING.
10. AT NO TIME SHALL THE CONTRACTOR ALLOW LEACHATE INTO THE STORMWATER SYSTEM.
11. ALL IMPROVEMENTS AND WORK SHALL BE SUBJECT TO INSPECTION BY THE CONSTRUCTION QUALITY ASSURANCE FIRM.
12. CONTRACTOR SHALL USE THE FACILITY'S SOUTHERN PERIMETER ROAD TO ACCESS THE PROJECT AREA TO PREVENT INTERFERENCE WITH LANDFILL OPERATIONS.
13. COORDINATE ALL CONSTRUCTION ACTIVITIES INCLUDING TRAFFIC CIRCULATION WITH THE LANDFILL OPERATIONS MANAGER.
14. REFER TO PROJECT MANUAL FOR ADDITIONAL PROJECT REQUIREMENTS.
15. CONTRACTOR SHALL ADDRESS ALL LEACHATE SEEPS WITHIN THE PROJECT AREA DURING CONSTRUCTION. AT MINIMUM, LEACHATE SEEPS SHOULD BE REPAIRED IN ACCORDANCE WITH THE DETAIL 3 ON SHEET 12.

GENERAL GCCS NOTES

1. THE WORK TO BE PERFORMED INVOLVES, BUT IS NOT LIMITED TO, THE CONSTRUCTION AND INSTALLATION OF THE LANDFILL GAS COLLECTION AND CONTROL SYSTEM DEPICTED ON THESE CONSTRUCTION DRAWINGS. WORK SHALL INCLUDE THE INSTALLATION OF LANDFILL GAS EXTRACTION WELLS, HEADER AND LATERAL PIPING, VALVES, CONDENSATE MANAGEMENT FEATURES, AND ANY OTHER ITEMS NEEDED TO MAKE THE SYSTEM OPERATE PROPERLY.
2. CONTRACTOR SHALL MINIMIZE LAND DISTURBANCE RELATED TO CONSTRUCTION ACTIVITIES TO THE GREATEST EXTENT POSSIBLE TO MINIMIZE ODORS. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS INSIDE AND OUTSIDE THE LANDFILL FOOTPRINT TO ITS ORIGINAL CONDITION.
3. ALL LANDFILL WASTE ENCOUNTERED DURING DRILLING AND EXCAVATION ACTIVITIES SHALL BE REMOVED AND HAULED TO THE ACTIVE LANDFILL WORKING FACE. ALL EXCAVATED TRENCHES MUST BE COVERED AT THE END OF EACH WORKING DAY. NO EXPOSED REFUSE WILL REMAIN OVERNIGHT.
4. THE CONTRACTOR SHALL PREPARE A WRITTEN SITE-SPECIFIC HEALTH AND SAFETY PLAN THAT ADDRESSES THE POTENTIAL HAZARDS ASSOCIATED WITH LANDFILL GAS CONSTRUCTION ACTIVITIES AT SOLID WASTE MANAGEMENT FACILITIES AND IMPLEMENT THE PROCEDURES AND PROTOCOLS NECESSARY TO MAINTAIN A SAFE WORK ENVIRONMENT.

PIPE REQUIREMENTS

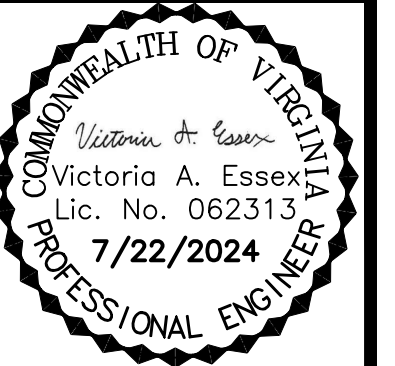
1. LFG SYSTEM HEADER AND LATERAL PIPING SHALL BE HIGH DENSITY POLYETHYLENE (HDPE), SDR-17, PE 4710, UNLESS OTHERWISE NOTED.
2. PNEUMATIC SUPPLY PIPING SHALL BE HDPE SDR-9, PE4710.
3. LIQUID FORCEMAIN PIPING SHALL BE HDPE SDR-11, PE4710.
4. PIPE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ASTM D-2321, PPI TR-31/9-79, AND THE MANUFACTURER'S RECOMMENDATIONS.
5. HEADER, LATERAL PIPING, PNEUMATIC SUPPLY, AND LIQUID FORCEMAIN SHALL BE SUBJECTED TO AN AIR TEST TO DETECT ANY LEAKS.
6. ALL HEADER AND LATERAL PIPING INSIDE AND OUTSIDE WASTE LIMITS SHALL BE INSTALLED AT A 4 PERCENT AND 2 PERCENT MINIMUM GRADE, RESPECTIVELY, UNLESS APPROVED BY ENGINEER AND OWNER.

VERTICAL EXTRACTION WELLS

1. CONTRACTOR SHALL SURVEY AND STAKE THE VERTICAL EXTRACTION WELL LOCATIONS PRIOR TO DRILLING. WELL DEPTHS AND PIPE LENGTHS MAY BE ADJUSTED BY THE ENGINEER OR OWNER PRIOR TO DRILLING;
2. CONTRACTOR SHALL PROVIDE WELL LOCATION ELEVATIONS TO ENGINEER PRIOR TO DRILLING. THE BORING DEPTHS MAY BE ADJUSTED BY THE ENGINEER OR OWNER.
3. THE PLANS PROPOSES 7 VERTICAL EXTRACTION WELLS WITHIN PHASE 4 OF THE SWP #585 LANDFILL TO BE INSTALLED. LANDFILL OWNER RESERVES THE RIGHT TO ADD OR DELETE ANY PROPOSED WELLS.
4. CQA CONSULTANT AND CONTRACTOR SHALL KEEP DETAILED WELL LOGS FOR ALL WELLS DRILLED, INCLUDING THE TOTAL DEPTH OF WELL, THE STATIC WATER LEVEL (IF ANY), AND THE DEPTH, THICKNESS, AND DESCRIPTION OF SOIL OR WASTE STRATA. THE WELL LOGS SHALL INCLUDE DIMENSIONS THAT INDICATE TOTAL WELL DEPTH, LENGTH OF PERFORATED PIPE, LENGTH OF SOLID PIPE, THICKNESS OF BENTONITE PLUG, AND THICKNESS OF SOIL.
5. FOLLOWING REVIEW OF ADJUSTED WELL SCHEDULE, CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM OWNER AND CQA CONSULTANT PRIOR TO DRILLING.

PASSIVE VENT CONVERSION

1. THE PLANS PROPOSE THE CONVERSION OF SELECT EXISTING PASSIVE VENTS WITHIN THE SWP #21 LANDFILL TO ACTIVE LFG EXTRACTION WELLS.



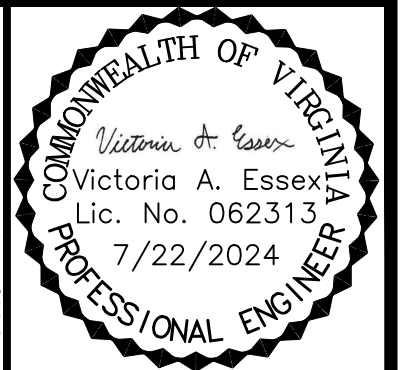
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| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

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| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7483 | O/A BY: C/JW APP. BY: VAE |
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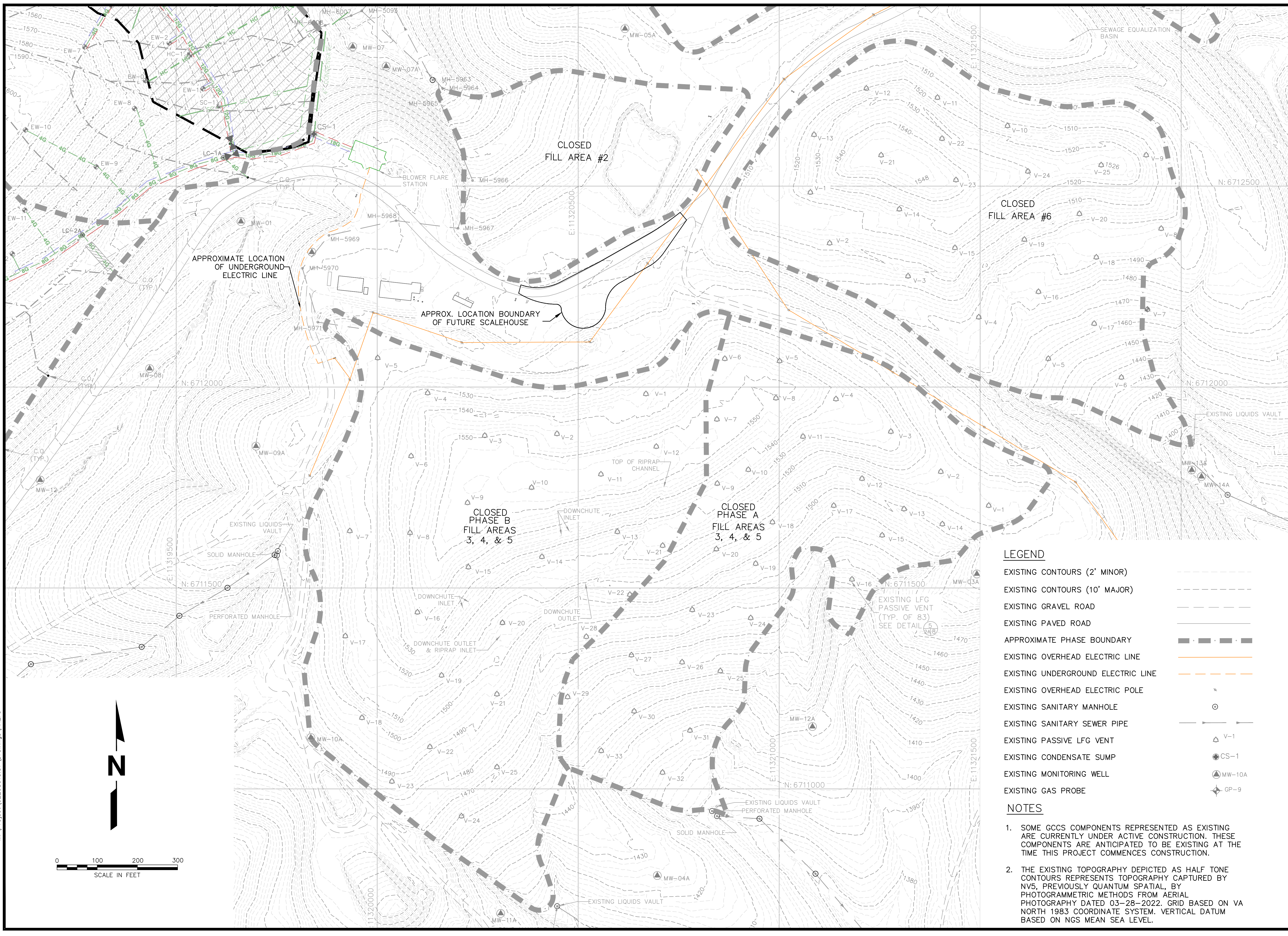
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| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

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| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN PARK - MIDLOTHIAN, VA 23113 PH. (804) 578-7440 FAX. (804) 378-7433 | DATE: 02208015.37 DWG. BY: JGW CHK. BY: VAE |
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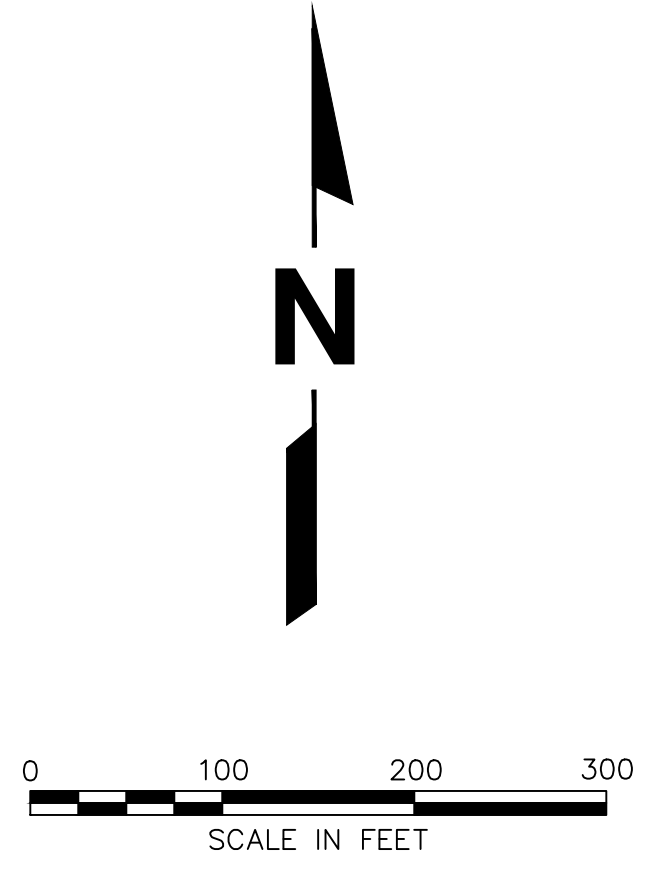


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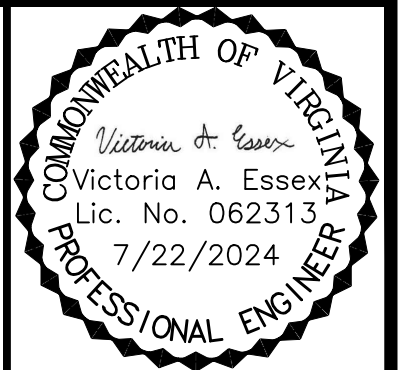
- EXISTING CONTOURS (2' MINOR)
- EXISTING CONTOURS (10' MAJOR)
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- APPROXIMATE PHASE BOUNDARY
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC POLE
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER PIPE
- EXISTING PASSIVE LFG VENT
- EXISTING CONDENSATE SUMP
- EXISTING MONITORING WELL
- EXISTING GAS PROBE

NOTES

1. SOME GCCS COMPONENTS REPRESENTED AS EXISTING ARE CURRENTLY UNDER ACTIVE CONSTRUCTION. THESE COMPONENTS ARE ANTICIPATED TO BE EXISTING AT THE TIME THIS PROJECT COMMENCES CONSTRUCTION.
2. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.



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SHEET TITLE
EXISTING CONDITIONS SWP #585

PROJECT TITLE
**AUGUSTA REGIONAL LANDFILL
GCCS DESIGN AND EXPANSION**

CLIENT
**AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VA 24401**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
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16521 MIDLOTHIAN PARK - MIDLOTHIAN, VA 23113
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PROJ. NO. 02208015.33
DATE 5/14/24

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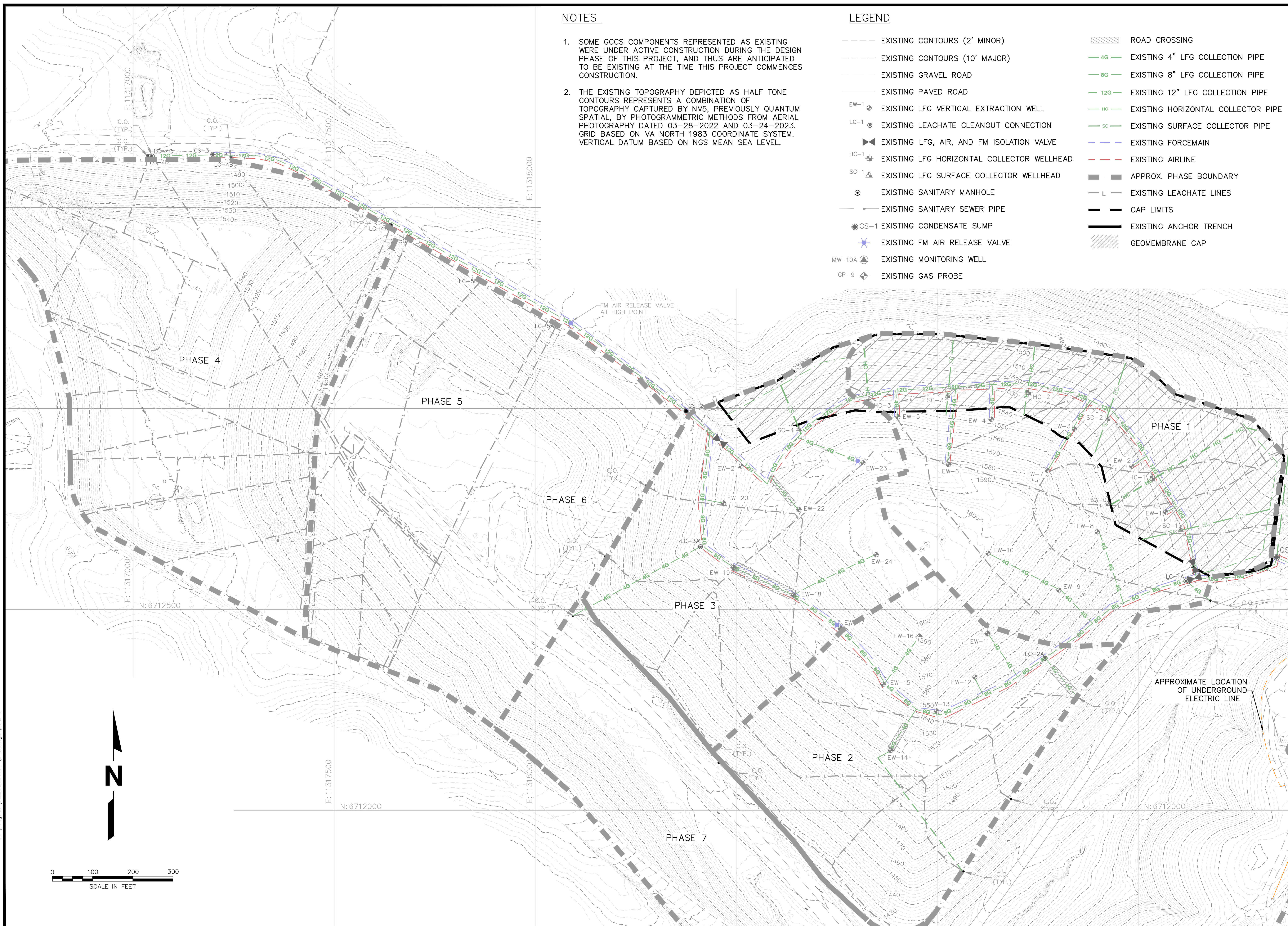
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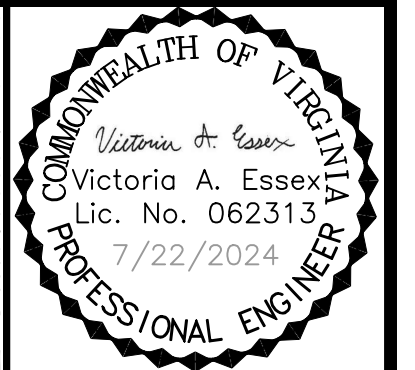
- SOME GCCS COMPONENTS REPRESENTED AS EXISTING WERE UNDER ACTIVE CONSTRUCTION DURING THE DESIGN PHASE OF THIS PROJECT, AND THUS ARE ANTICIPATED TO BE EXISTING AT THE TIME THIS PROJECT COMMENCES CONSTRUCTION.
- THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS A COMBINATION OF TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022 AND 03-24-2023. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.

LEGEND

- EXISTING CONTOURS (2' MINOR)
- EXISTING CONTOURS (10' MAJOR)
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EW-1 EXISTING LFG VERTICAL EXTRACTION WELL
- LC-1 EXISTING LEACHATE CLEANOUT CONNECTION
- ▲ EXISTING LFG, AIR, AND FM ISOLATION VALVE
- HC-1 EXISTING LFG HORIZONTAL COLLECTOR WELLHEAD
- SC-1 EXISTING LFG SURFACE COLLECTOR WELLHEAD
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER PIPE
- CS-1 EXISTING CONDENSATE SUMP
- ★ EXISTING FM AIR RELEASE VALVE
- MW-10A EXISTING MONITORING WELL
- GP-9 EXISTING GAS PROBE
- ▨ ROAD CROSSING
- 4G EXISTING 4" LFG COLLECTION PIPE
- 8G EXISTING 8" LFG COLLECTION PIPE
- 12G EXISTING 12" LFG COLLECTION PIPE
- HC EXISTING HORIZONTAL COLLECTOR PIPE
- SC EXISTING SURFACE COLLECTOR PIPE
- EXISTING FORCEMAIN
- EXISTING AIRLINE
- ▨ APPROX. PHASE BOUNDARY
- EXISTING LEACHATE LINES
- CAP LIMITS
- EXISTING ANCHOR TRENCH
- ▨ GEOMEMBRANE CAP



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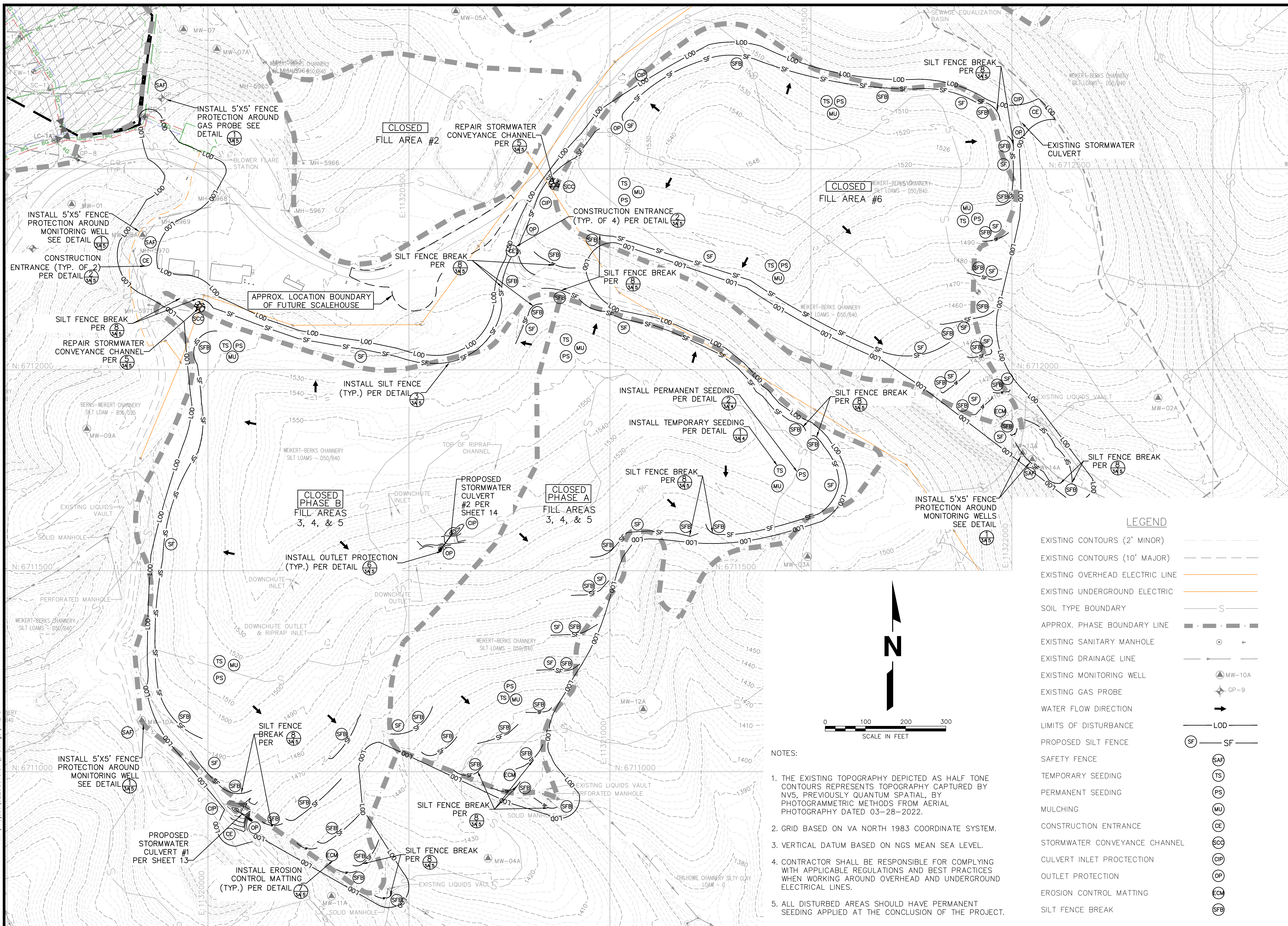
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| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |

| SHEET TITLE | EROSION AND SEDIMENT CONTROL PLAN |
|---------------|---|
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

| CUSTOMER | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|----------|--|
|----------|--|

| CLIENT | SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TRPK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433 |
|-----------|--|
| PROJ. NO. | 02208015.37 |
| DWN. BY: | HW |
| CHK. BY: | VAE |
| APP. BY: | VAE |

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| DATE: | 5/14/24 |
| SCALE: | AS SHOWN |
| DRAWING NO. | |



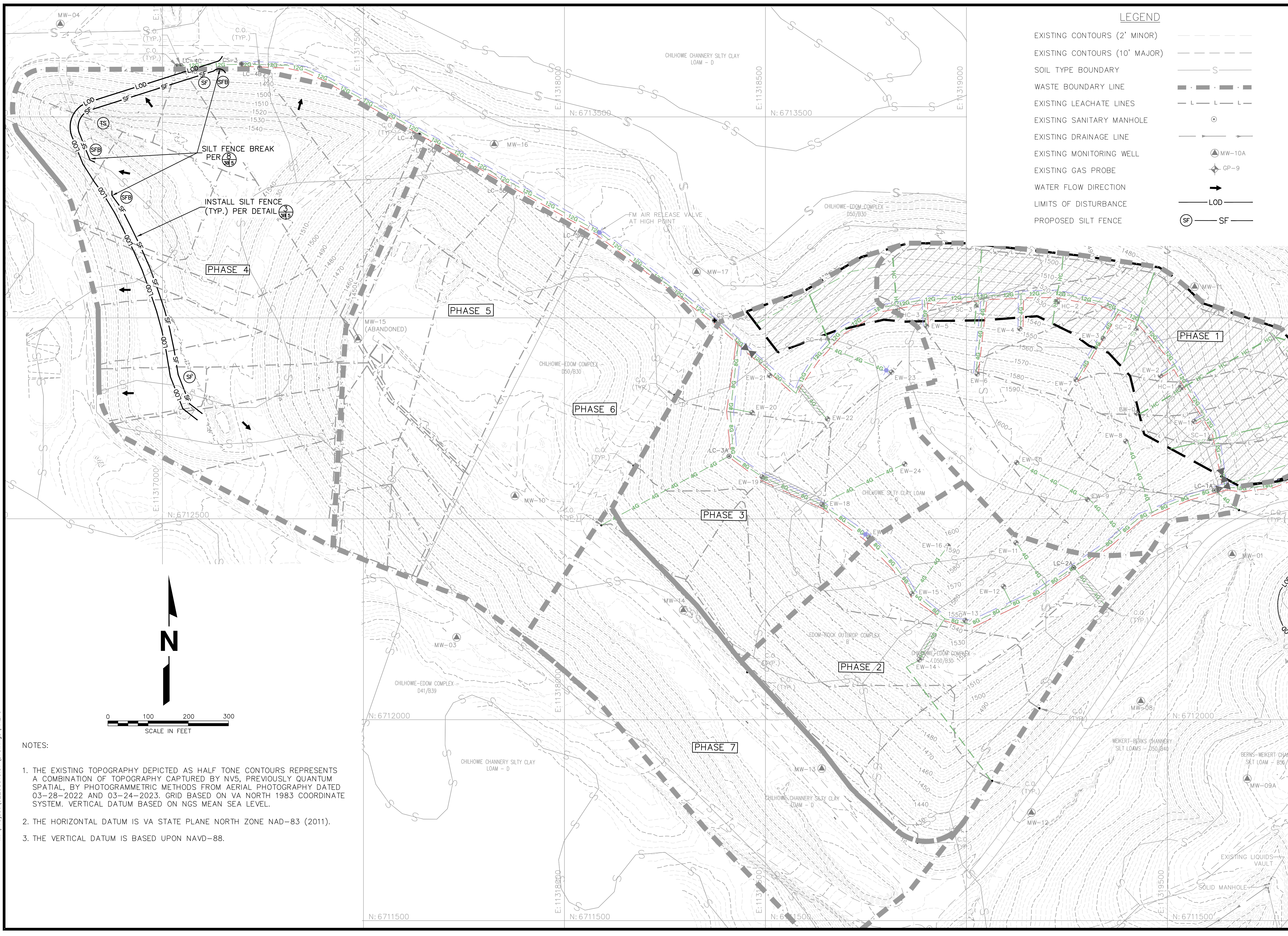
LEGEND

| | |
|---------------------------------|-----------|
| EXISTING CONTOURS (2' MINOR) | --- |
| EXISTING CONTOURS (10' MAJOR) | - - - - |
| EXISTING OVERHEAD ELECTRIC LINE | — |
| EXISTING UNDERGROUND ELECTRIC | — |
| SOIL TYPE BOUNDARY | S |
| APPROX. PHASE BOUNDARY LINE | - · - · - |
| EXISTING SANITARY MANHOLE | ⊙ |
| EXISTING DRAINAGE LINE | — |
| EXISTING MONITORING WELL | ▲ MW-10A |
| EXISTING GAS PROBE | ◆ GP-9 |
| WATER FLOW DIRECTION | → |
| LIMITS OF DISTURBANCE | LOD |
| PROPOSED SILT FENCE | SF |
| SAFETY FENCE | SAF |
| TEMPORARY SEEDING | TS |
| PERMANENT SEEDING | PS |
| MULCHING | MU |
| CONSTRUCTION ENTRANCE | CE |
| STORMWATER CONVEYANCE CHANNEL | SCC |
| CULVERT INLET PROTECTION | CIP |
| OUTLET PROTECTION | OP |
| EROSION CONTROL MATTING | ECM |
| SILT FENCE BREAK | SFB |

- NOTES:
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022.
 2. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM.
 3. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE REGULATIONS AND BEST PRACTICES WHEN WORKING AROUND OVERHEAD AND UNDERGROUND ELECTRICAL LINES.
 5. ALL DISTURBED AREAS SHOULD HAVE PERMANENT SEEDING APPLIED AT THE CONCLUSION OF THE PROJECT.

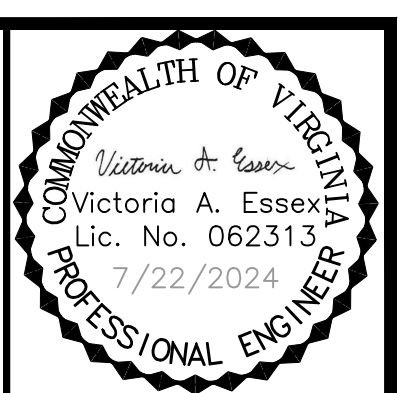
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LEGEND

| | |
|-------------------------------|---------------|
| EXISTING CONTOURS (2' MINOR) | --- |
| EXISTING CONTOURS (10' MAJOR) | - - - - |
| SOIL TYPE BOUNDARY | S |
| WASTE BOUNDARY LINE | ■ ■ ■ ■ |
| EXISTING LEACHATE LINES | - L - L - L - |
| EXISTING SANITARY MANHOLE | ⊙ |
| EXISTING DRAINAGE LINE | → → → |
| EXISTING MONITORING WELL | ▲ MW-10A |
| EXISTING GAS PROBE | ◆ GP-9 |
| WATER FLOW DIRECTION | → |
| LIMITS OF DISTURBANCE | LOD |
| PROPOSED SILT FENCE | ⊙ SF |



| NO. | REVISION | DATE |
|-----|-------------------------|---------|
| 1 | ESC PLAN & OVERALL REV. | 7/22/24 |

SHEET TITLE: **EROSION AND SEDIMENT CONTROL PLAN**

PROJECT TITLE: **AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION**

CLIENT: **AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VA 24401**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
16521 MIDLOTHIAN PARK - MIDLOTHIAN, VA 23113
PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02208015_38
DWG. BY: HGW
CHK. BY: VAE
APP. BY: VAE

CADD FILE: 02208015_37

DATE: 5/14/24

SCALE: AS SHOWN

DRAWING NO.

3B of 14

- NOTES:**
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS A COMBINATION OF TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022 AND 03-24-2023. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 2. THE HORIZONTAL DATUM IS VA STATE PLANE NORTH ZONE NAD-83 (2011).
 3. THE VERTICAL DATUM IS BASED UPON NAVD-88.

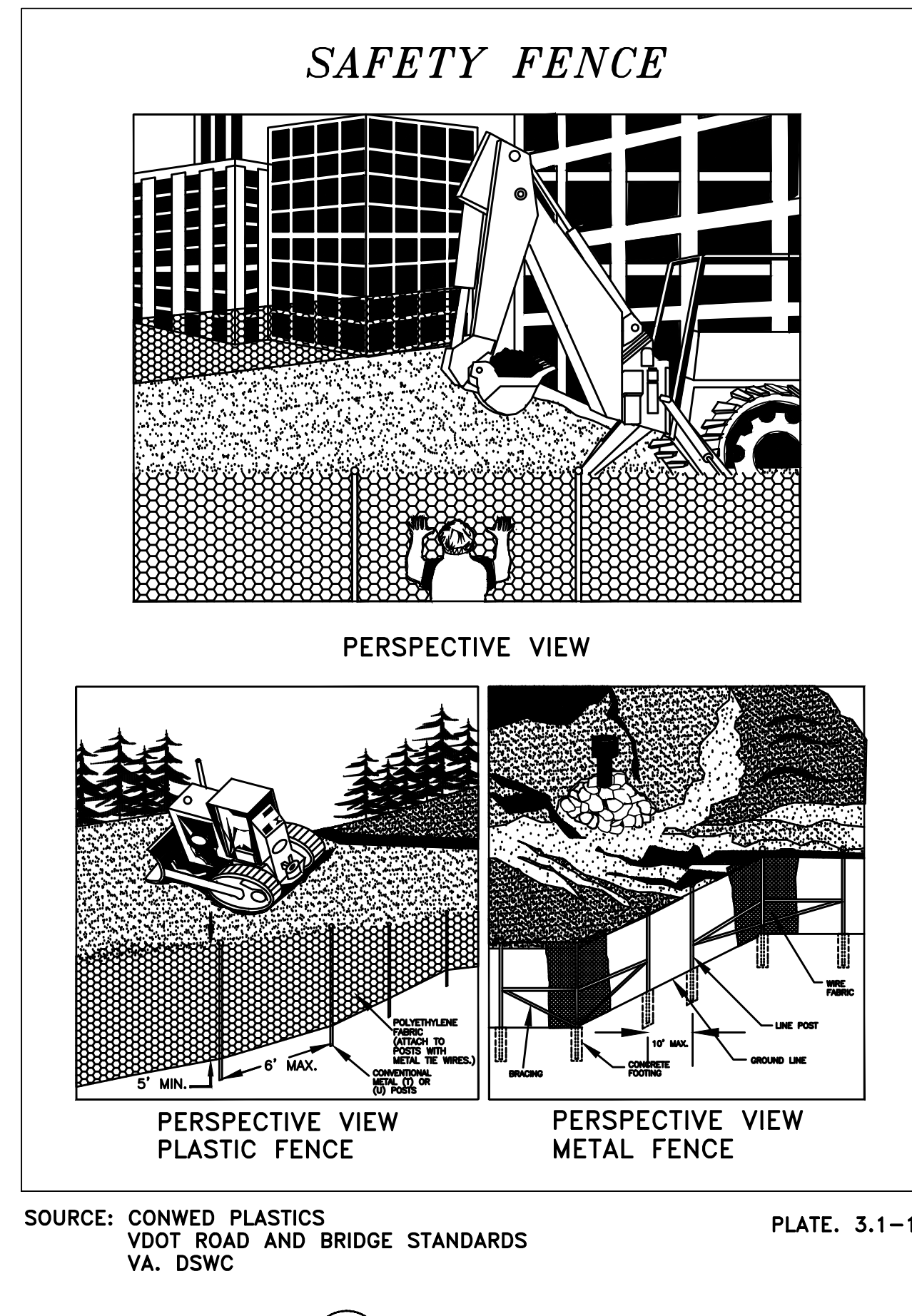
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| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | Δ Δ Δ Δ Δ |

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| SHEET TITLE | ESC PLAN DETAILS |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

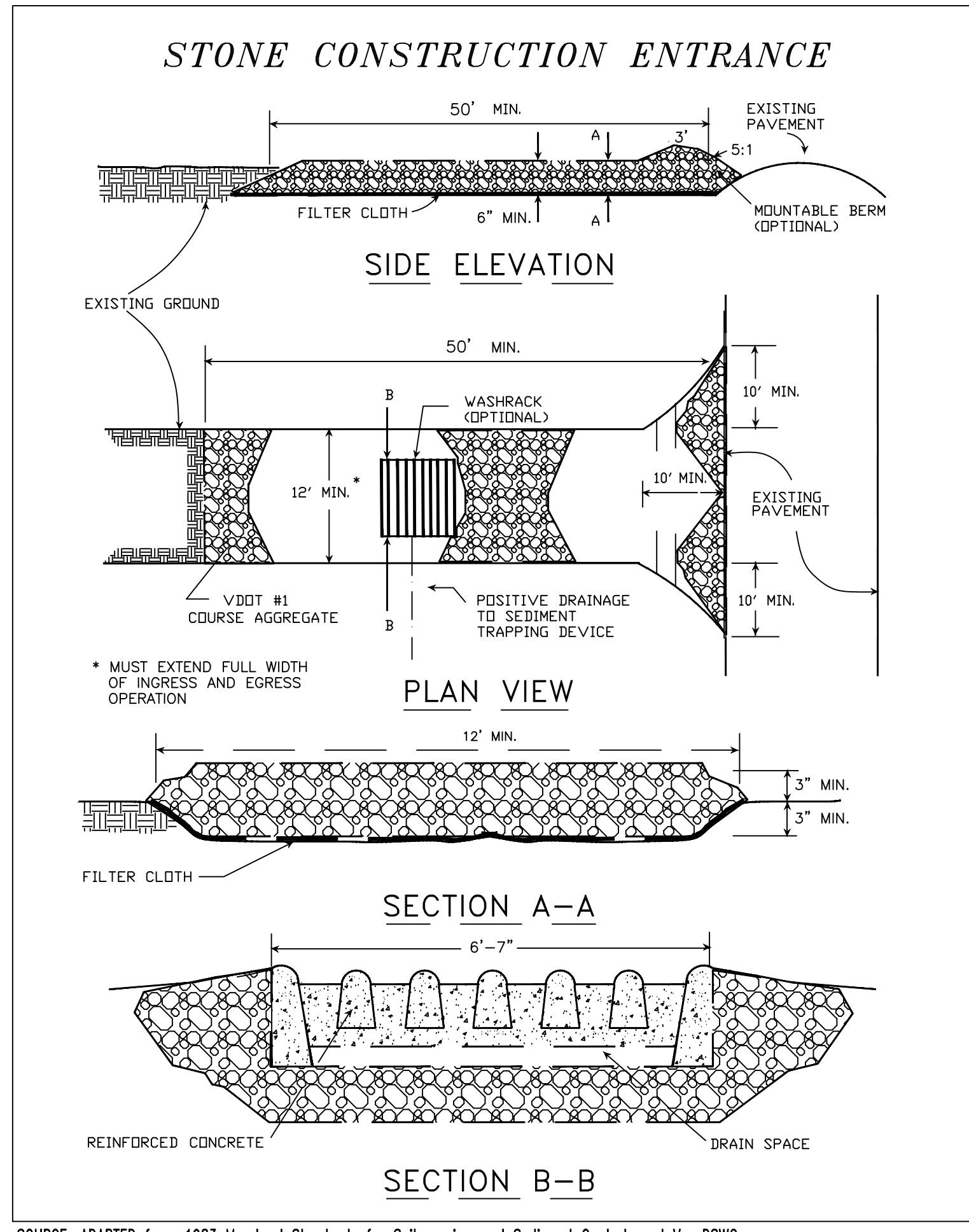
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|--------|--|
| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|--------|--|

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|---|---|
| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH. (804) 378-7400 FAX. (804) 378-7433 | Q/A BY: VAE C/JW APP. BY: VAE DWN. BY: HGW CHK. BY: VAE DSC. BY: HGW |
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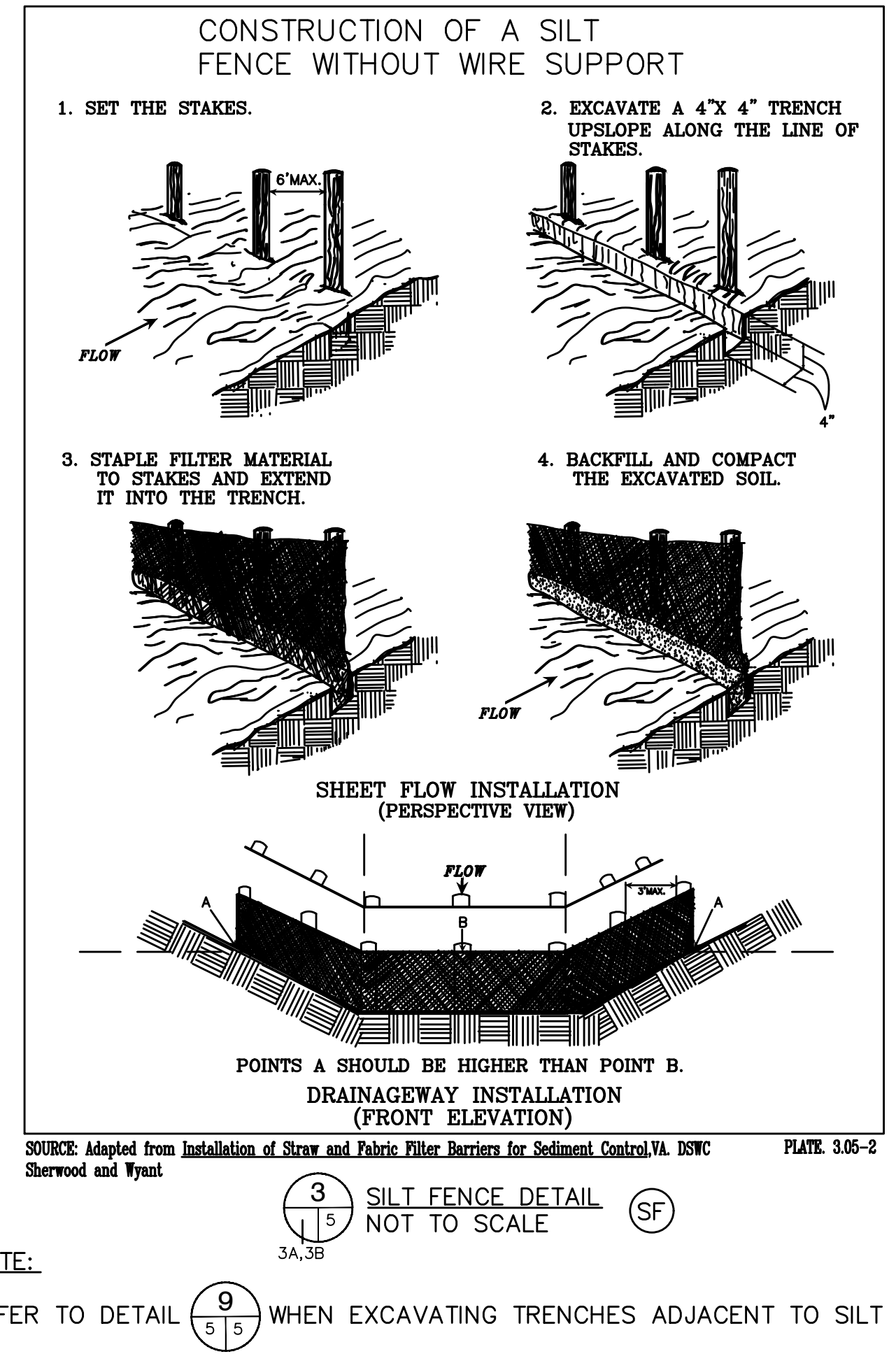
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| DRAWING NO. | |



1 SAFETY FENCE (SAF)
 NOT TO SCALE

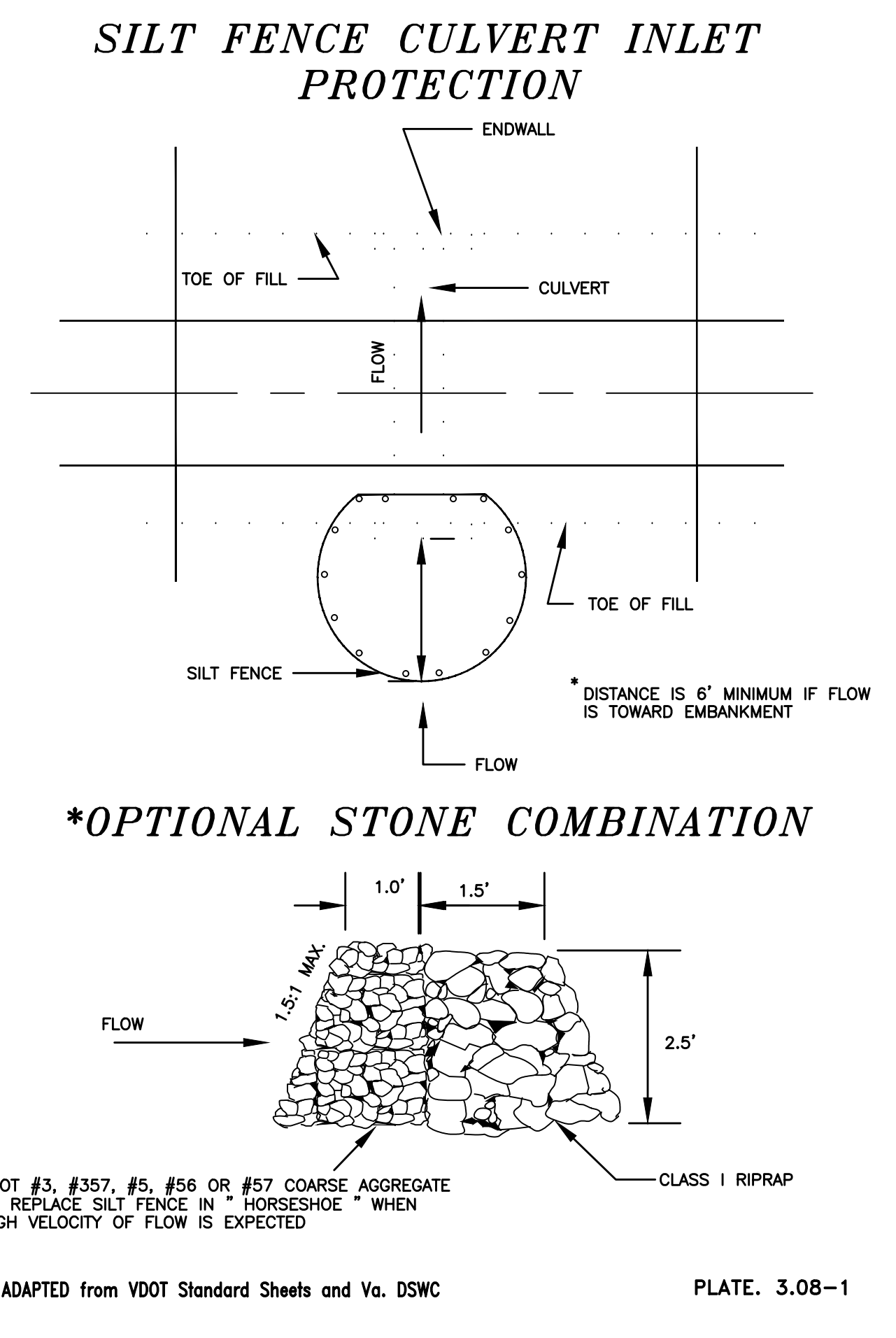


2 CONSTRUCTION ENTRANCE (CE)
 NOT TO SCALE

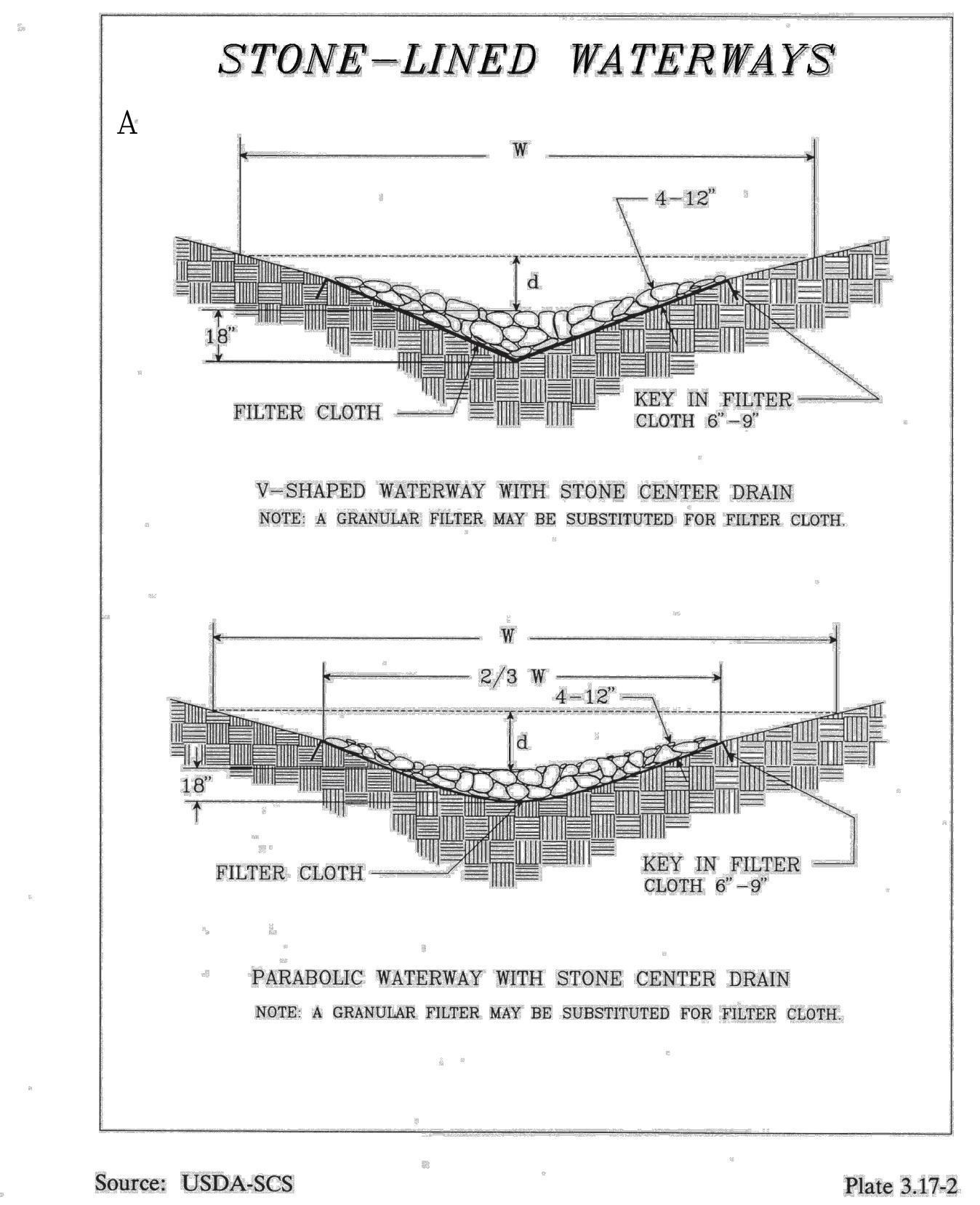


NOTE:
 REFER TO DETAIL 9 WHEN EXCAVATING TRENCHES ADJACENT TO SILT FENCE.

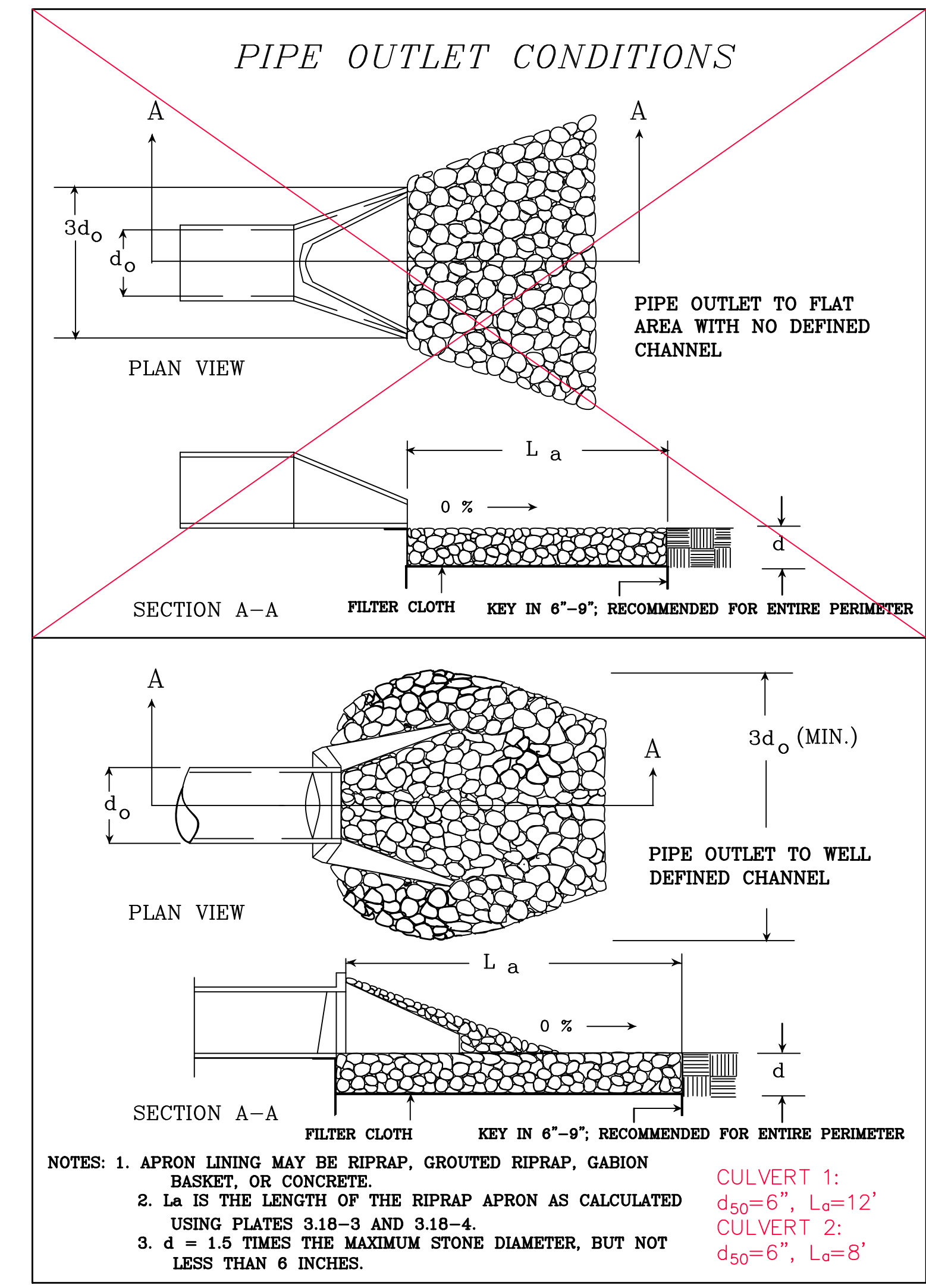
3 SILT FENCE DETAIL (SF)
 NOT TO SCALE



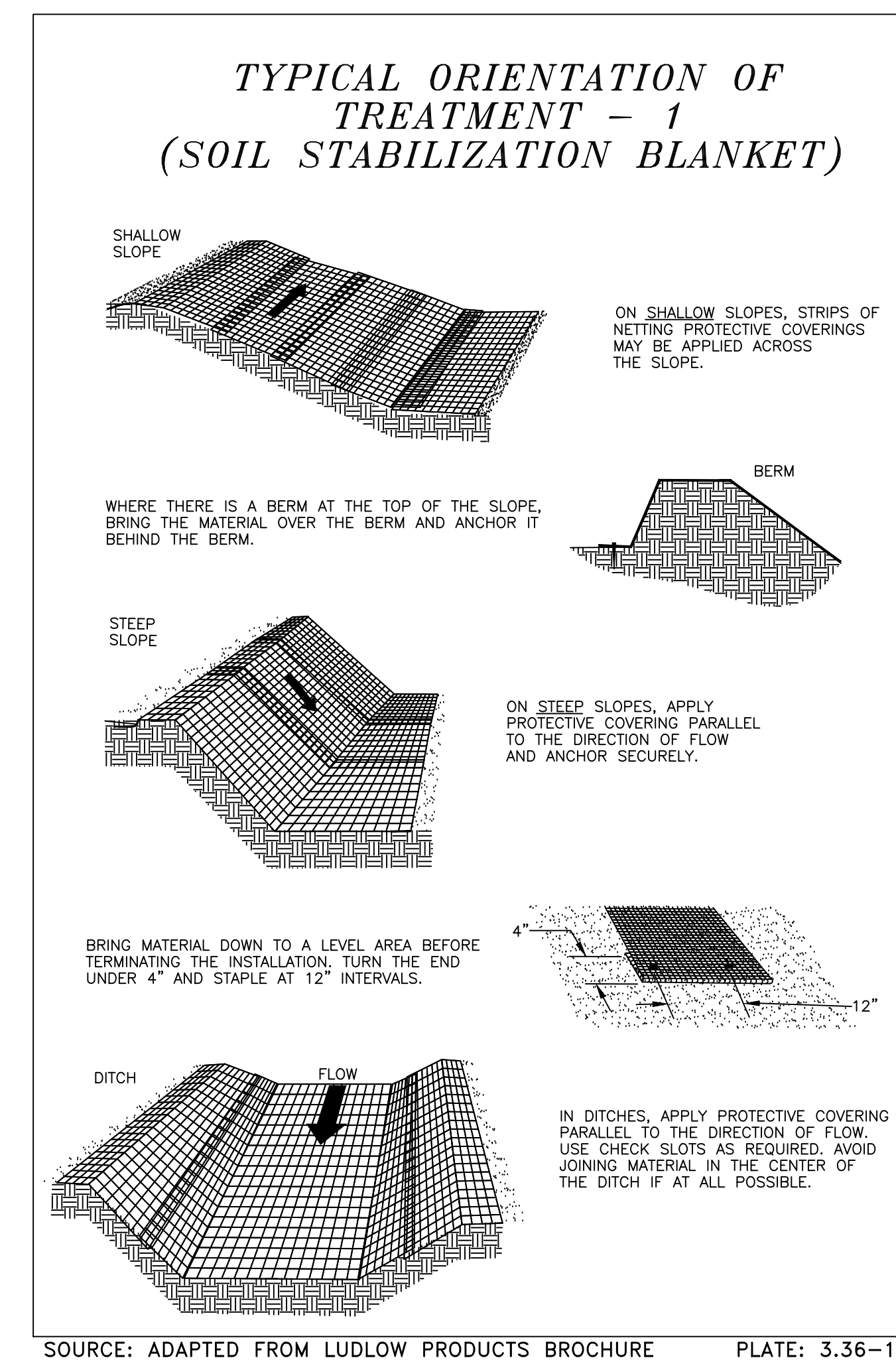
4 CULVERT INLET PROTECTION (CIP)
 NOT TO SCALE



5 STORMWATER CONVEYANCE CHANNEL (SCC)
 NOT TO SCALE

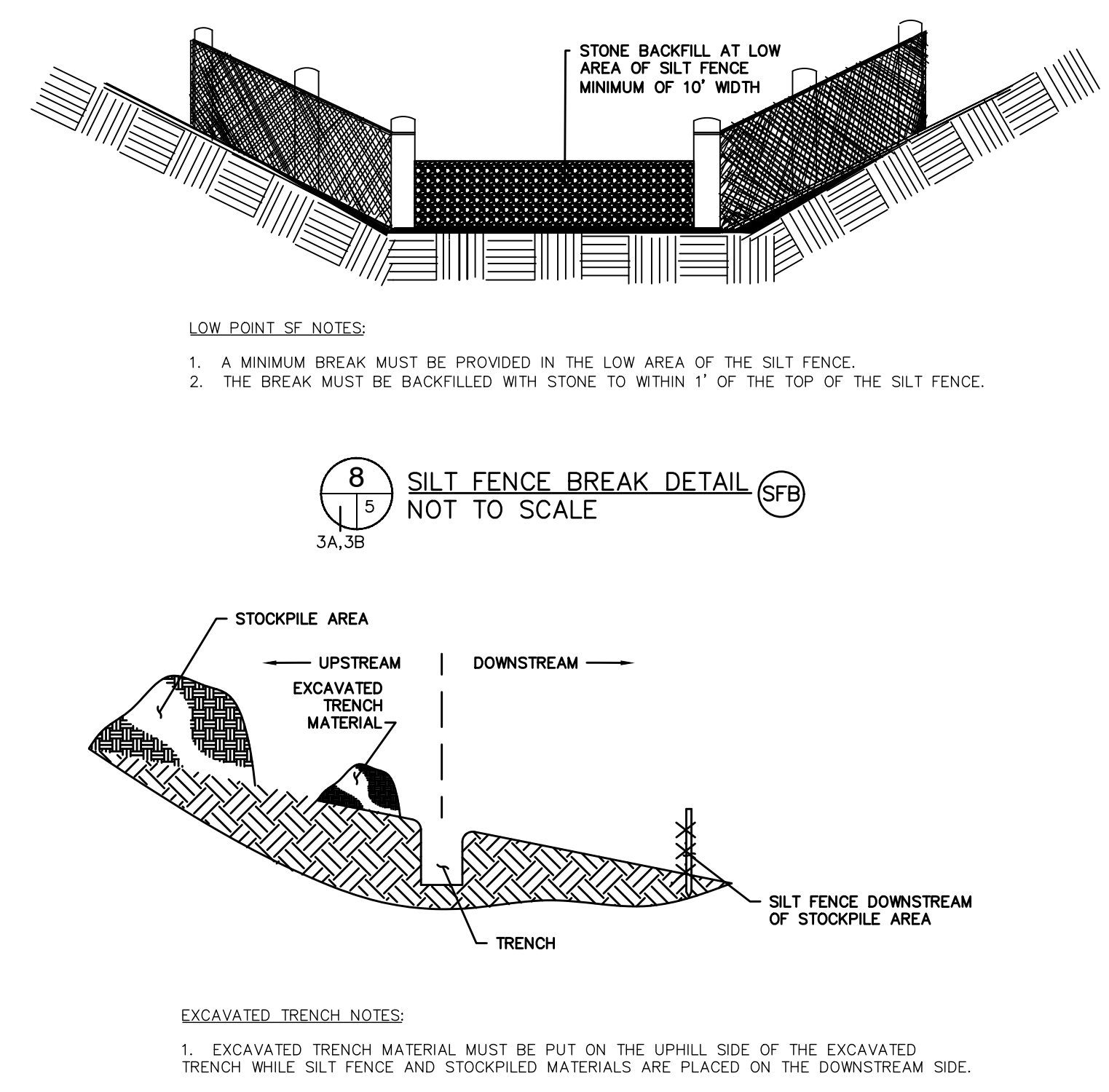


6 OUTLET PROTECTION (OP)
 NOT TO SCALE



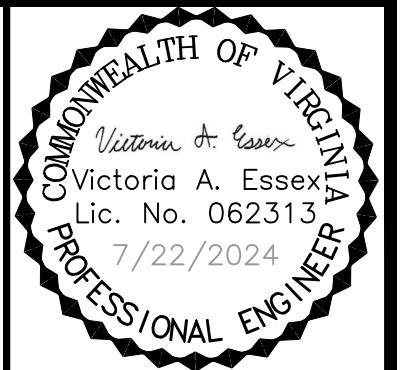
7 EROSION CONTROL MATTING (ECM)
 NOT TO SCALE

NOTE:
 REFER TO VAESCH PLATE 3.36-6 FOR STAPLE PATTERN.



8 SILT FENCE BREAK DETAIL (SFB)
 NOT TO SCALE

9 TRENCH EXCAVATION NEAR SILT FENCE DETAIL
 NOT TO SCALE

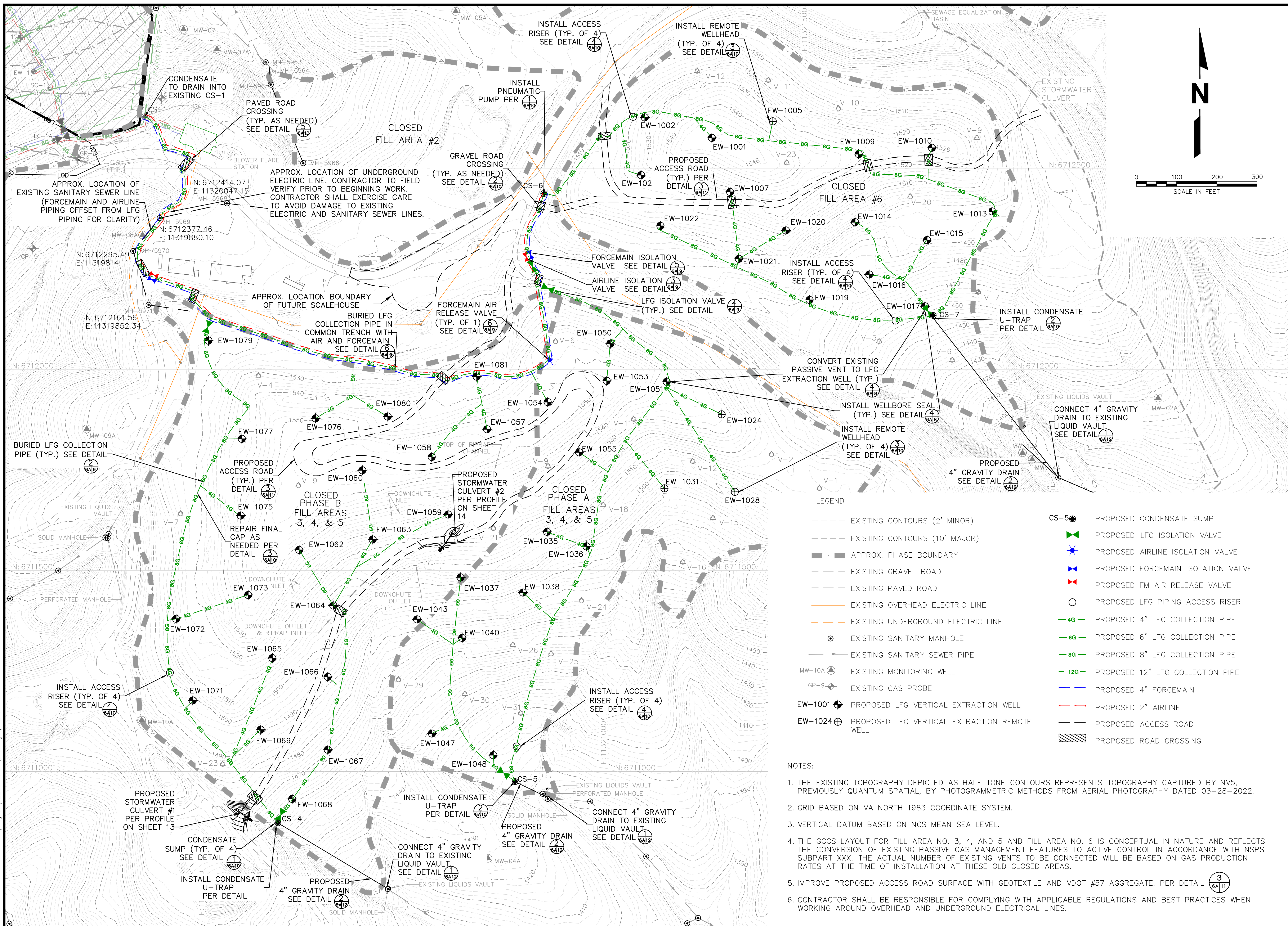


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| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |

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| SHEET TITLE | SWP #21 PROPOSED GCCS DESIGN LAYOUT |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

| | |
|--------|--|
| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|--------|--|

| | |
|--|-------------------|
| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TPKE - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433 | DATE 5/14/24 |
| PROJ. NO. 02208015.37 | SCALE AS SHOWN |
| DWN. BY CJW | DRAWING NO. 6A |
| CHK. BY VAE | |
| APP. BY VAE | |

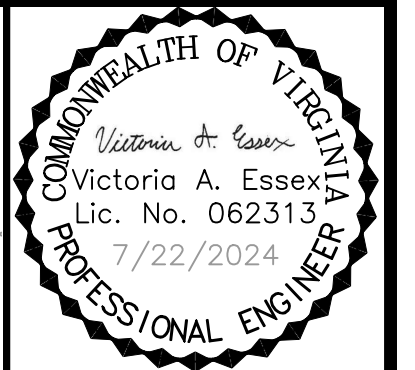


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LEGEND

- EXISTING CONTOURS (2' MINOR)
- EXISTING CONTOURS (10' MAJOR)
- EXISTING PHASE BOUNDARY
- EXISTING GRAVEL ROAD
- EXISTING PAVED ROAD
- EXISTING SANITARY MANHOLE
- EXISTING SANITARY SEWER PIPE
- EXISTING FM AIR RELEASE VALVE
- EXISTING LFG HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LFG SURFACE COLLECTOR WELLHEAD
- EXISTING ISOLATION VALVE
- EXISTING MONITORING WELL
- EXISTING GAS PROBE
- EXISTING LEACHATE CLEANOUT CONNECTION
- EXISTING FORCEMAIN
- EXISTING AIRLINE
- EXISTING ROAD
- EXISTING CONDENSATE SUMP
- EXISTING SOLID LEACHATE LINES
- CAP LIMITS
- EXISTING 4" LFG COLLECTION PIPE
- EXISTING 8" LFG COLLECTION PIPE
- EXISTING 12" LFG COLLECTION PIPE
- EXISTING HORIZONTAL COLLECTOR PIPE
- EXISTING SURFACE COLLECTOR PIPE
- EXISTING 4" LFG COLLECTION PIPE
- EXISTING 8" LFG COLLECTION PIPE
- EXISTING 12" LFG COLLECTION PIPE
- EXISTING HORIZONTAL COLLECTOR PIPE
- EXISTING SURFACE COLLECTOR PIPE
- EXISTING LFG EXTRACTION WELL
- EXISTING LEACHATE CLEANOUT CONNECTION
- PROPOSED 4" LFG COLLECTION PIPE
- PROPOSED 8" LFG COLLECTION PIPE
- PROPOSED LFG EXTRACTION WELL
- PROPOSED LFG EXTRACTION REMOTE WELL
- PROPOSED LFG ISOLATION VALVE
- PROPOSED AIR ISOLATION VALVE
- PROPOSED FORCEMAIN ISOLATION VALVE
- PROPOSED AIR RELEASE VALVE



| NO. | REVISION | DATE |
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| 1 | ESC PLAN & OVERALL REV. | 7/22/24 |

SHEET TITLE: SWP #585
 PROPOSED GCCS DESIGN LAYOUT
 PROJECT TITLE: AUGUSTA REGIONAL LANDFILL
 GCCS DESIGN AND EXPANSION

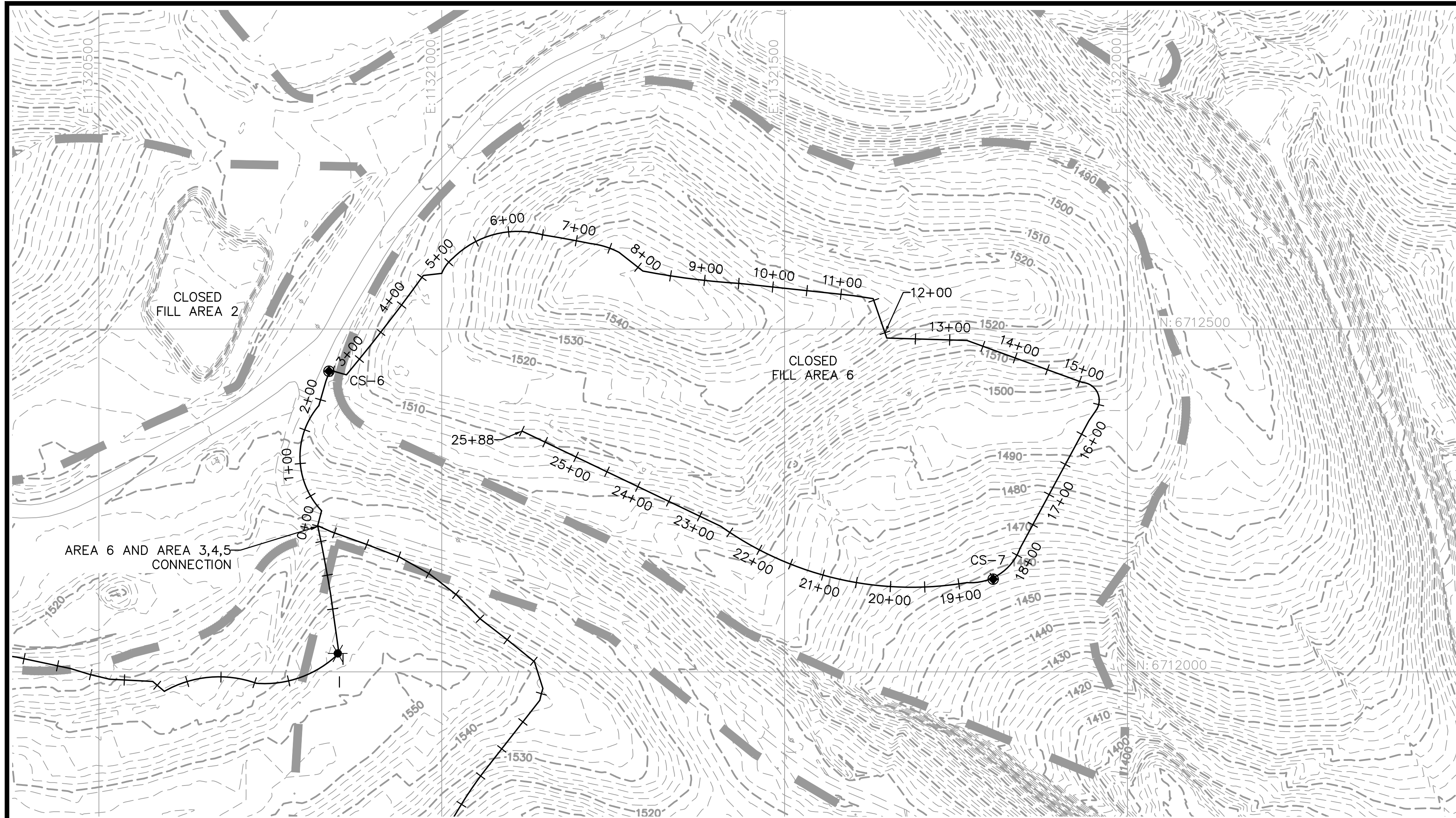
CLIENT: AUGUSTA REGIONAL LANDFILL
 749 CHRISTIANS CREEK RD
 STAUNTON, VA 24401

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
 PH. (804) 378-7440 FAX. (804) 378-7433

CADD FILE: 02208015.37
 DATE: 5/14/24
 SCALE: AS SHOWN
 DRAWING NO. **6B** of 14

- NOTES:
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS A COMBINATION OF TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022 AND 03-24-2023. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 2. THE HORIZONTAL DATUM IS VA STATE PLANE NORTH ZONE NAD-83 (2011).
 3. THE VERTICAL DATUM IS BASED UPON NAVD-88.
 4. THE PHASE 4 INITIAL GCCS LAYOUT IN THIS PLAN IS CONCEPTUAL IN NATURE AND BASED ON THE TOPOGRAPHY AND LANDFILL CONFIGURATION AS OF THE DATE NOTED HEREIN. THIS LANDFILL IS CURRENTLY ACTIVE AND THEREFORE CERTAIN AREAS OF THIS CELL ARE AT INTERIM GRADES AND CERTAIN AREAS ARE CURRENTLY BEING FILLED. THE GCCS WILL BE INSTALLED IN THE PHASE 4 AREA IN ACCORDANCE WITH THE WASTE AGE REQUIREMENTS OF NSPS SUBPART XXX AND THE EVOLUTION OF THE PHASE 4 GCCS DURING ACTIVE FILLING OPERATIONS WILL BE IN GENERAL ACCORDANCE WITH THE GUIDELINES AND DESIGN CRITERIA OUTLINED IN THIS PLAN.

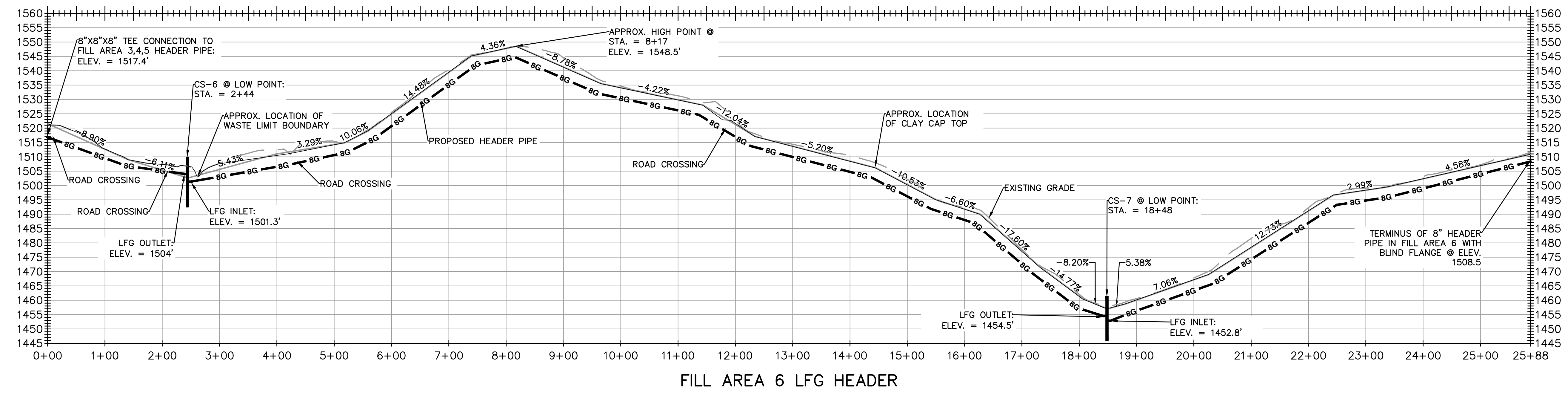
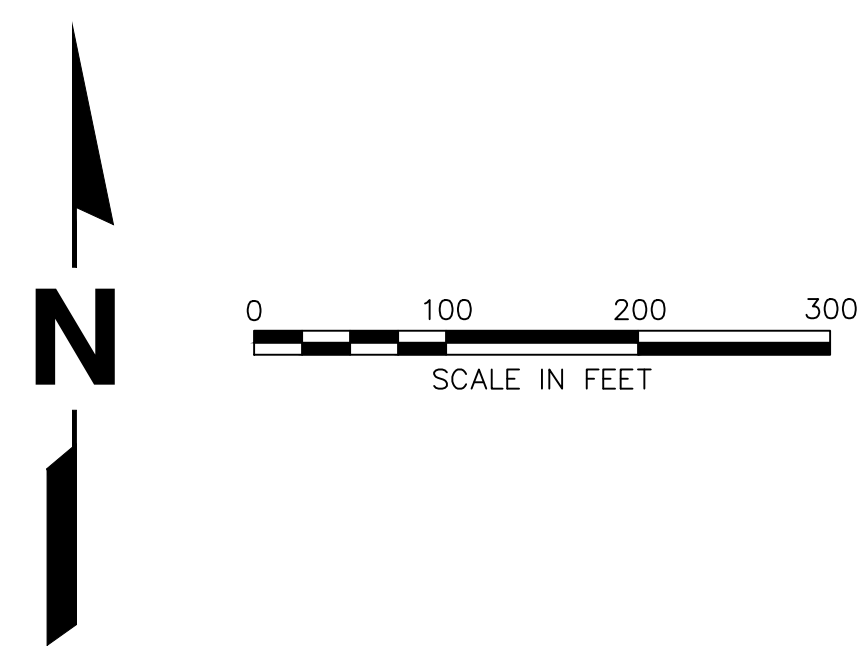
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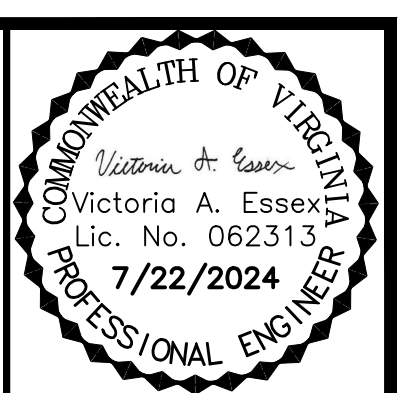
LEGEND

- EXISTING CONTOURS (2' MINOR)
- EXISTING CONTOURS (10' MAJOR)
- - - - - EXISTING ROAD
- ▬▬▬▬▬▬ APPROXIMATE PHASE BOUNDARY
- PROPOSED PERIMETER LFG HEADER ALIGNMENT
- 8G — 8G — PROPOSED 8 IN. LFG HEADER PIPING
- CS-5 ● PROPOSED CONDENSATE SUMP

- NOTES:**
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 2. THE GCCS LAYOUT FOR FILL AREA NO. 3, 4, AND 5 AND FILL AREA NO. 6 IS CONCEPTUAL IN NATURE AND REFLECTS THE CONVERSION OF EXISTING PASSIVE GAS MANAGEMENT FEATURES TO ACTIVE CONTROL IN ACCORDANCE WITH NSPS SUBPART XXX. THE ACTUAL NUMBER OF EXISTING VENTS TO BE CONNECTED WILL BE BASED ON GAS PRODUCTION RATES AT THE TIME OF INSTALLATION AT THESE OLD CLOSED AREAS.
 3. SLOPES SHOWN ON THE PROFILE(S) ARE APPROXIMATE EXISTING SURFACE GRADES. HEADER DEPTH SHOULD BE ADJUSTED TO ACHIEVE MINIMUM SLOPES OUTLINED IN DETAIL 1 AND DETAIL 2 ON SHEET NO. 9.



FILL AREA 6 LFG HEADER



| | |
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| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |

SHEET TITLE: PROPOSED LFG HEADER PROFILE 1
SWP #21 - FILL AREA 6

PROJECT TITLE:
**AUGUSTA REGIONAL LANDFILL
GCCS DESIGN AND EXPANSION**

CLIENT:
**AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VA 24401**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
16521 MIDLOTHIAN PARK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

PROJ. NO.: 02208015.37
DWN. BY: HGW
CHK. BY: VAE

Q/A BY: C/JW
APP. BY: VAE

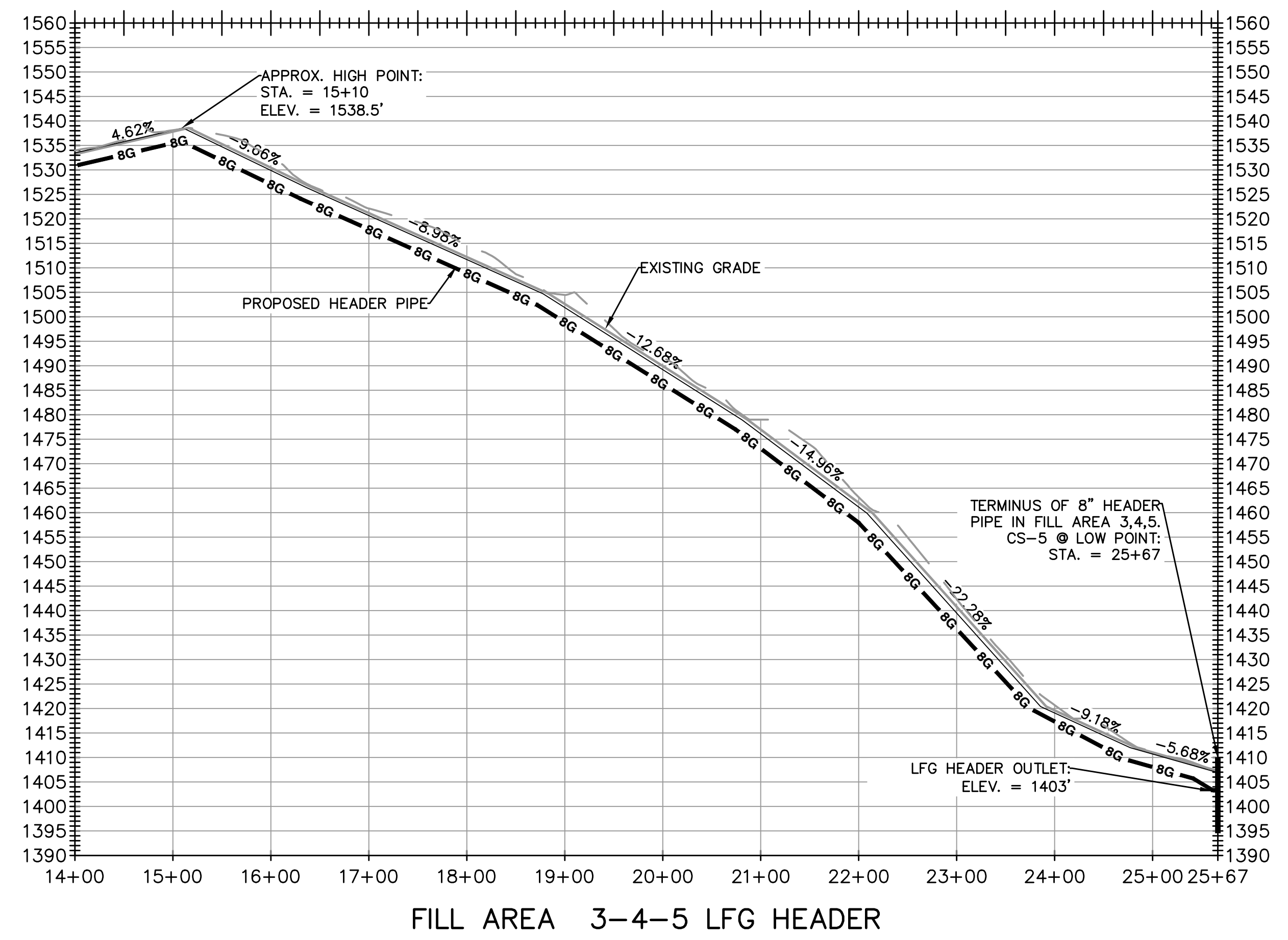
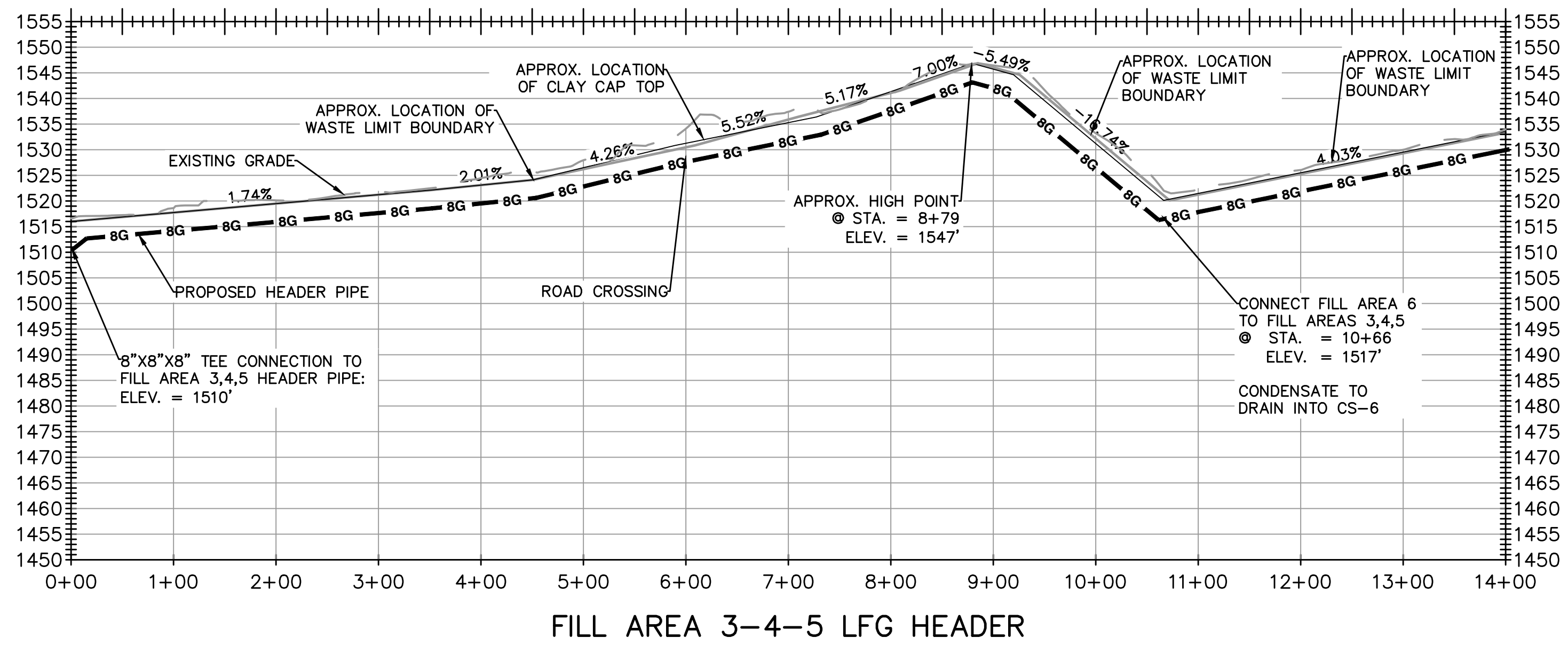
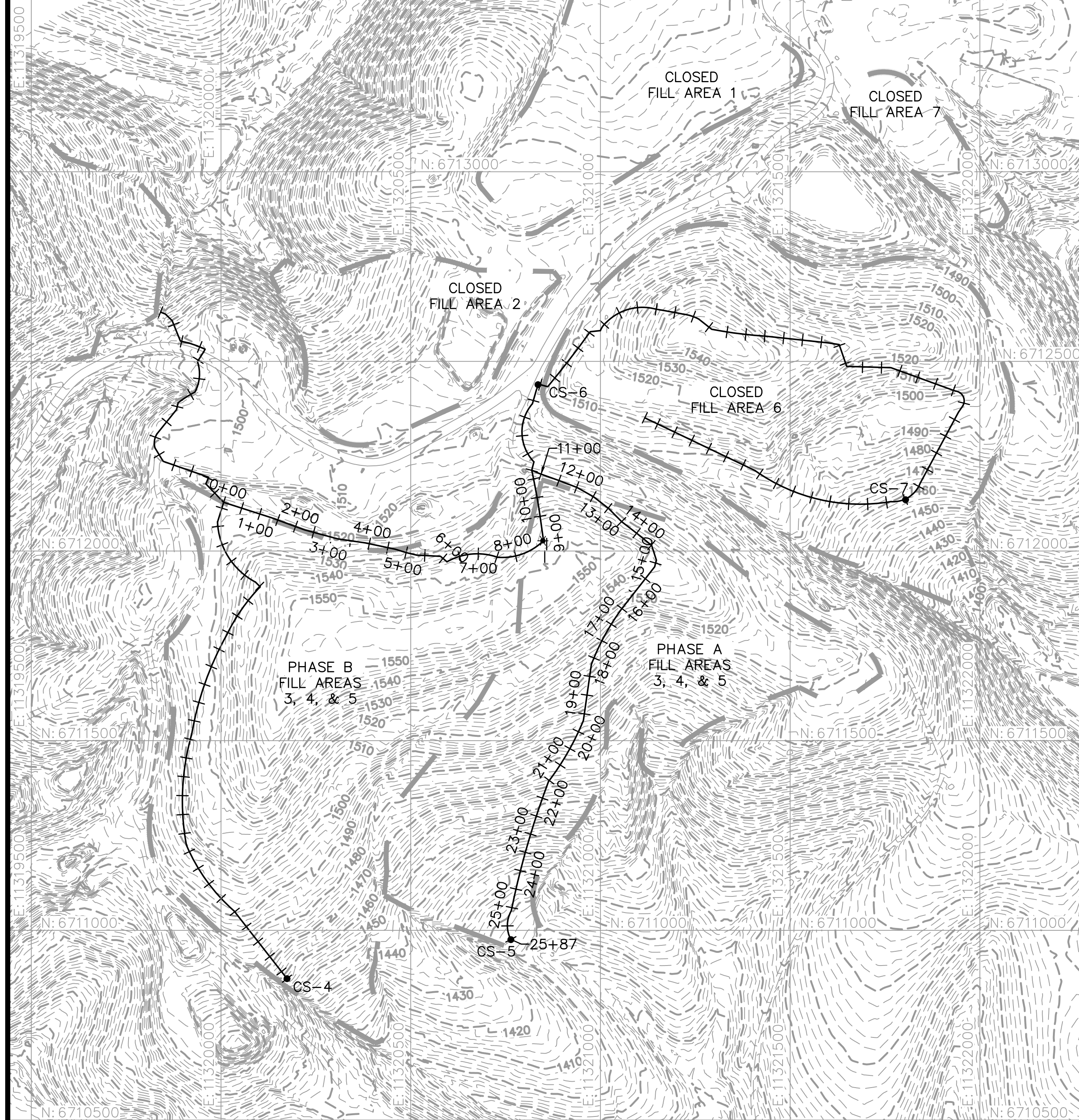
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DATE:
5/14/24

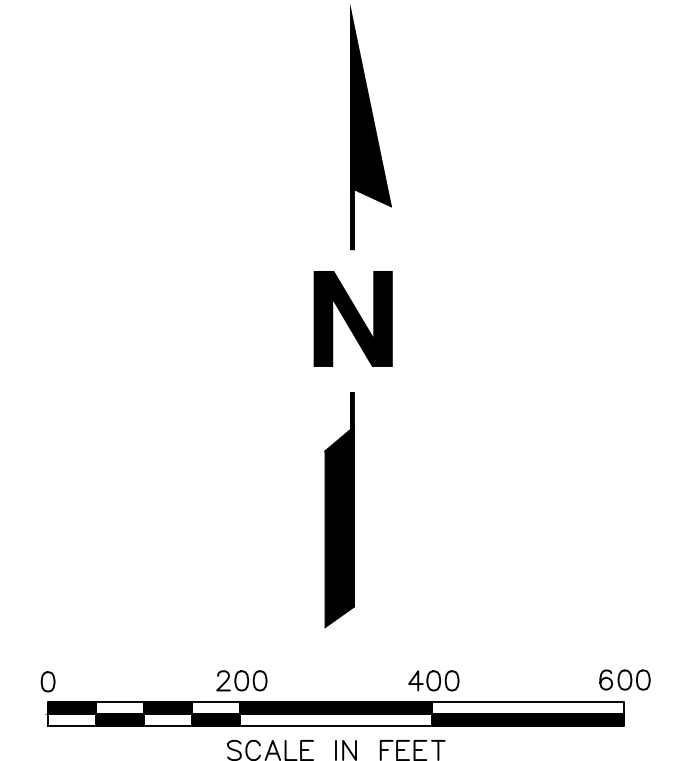
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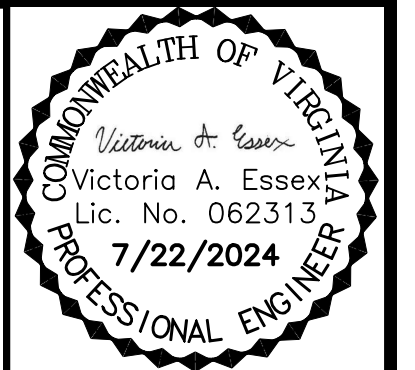
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| LEGEND | |
|------------|---|
| ----- | EXISTING CONTOURS (2' MINOR) |
| ----- | EXISTING CONTOURS (10' MAJOR) |
| ----- | EXISTING ROAD |
| ----- | APPROXIMATE PHASE BOUNDARY |
| ----- | PROPOSED PERIMETER LFG HEADER ALIGNMENT |
| --- 8G --- | PROPOSED 8 IN. LFG HEADER PIPING |
| ● | PROPOSED CONDENSATE SUMP |



- NOTES:
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 2. THE GCCS LAYOUT FOR FILL AREA NO. 3, 4, AND 5 AND FILL AREA NO. 6 IS CONCEPTUAL IN NATURE AND REFLECTS THE CONVERSION OF EXISTING PASSIVE GAS MANAGEMENT FEATURES TO ACTIVE CONTROL IN ACCORDANCE WITH NSPS SUBPART XXX. THE ACTUAL NUMBER OF EXISTING VENTS TO BE CONNECTED WILL BE BASED ON GAS PRODUCTION RATES AT THE TIME OF INSTALLATION AT THESE OLD CLOSED AREAS.
 3. SLOPES SHOWN ON THE PROFILE(S) ARE APPROXIMATE EXISTING SURFACE GRADES. HEADER DEPTH SHOULD BE ADJUSTED TO ACHIEVE MINIMUM SLOPES OUTLINED IN DETAIL 1 AND DETAIL 2 ON SHEET NO. 9.



| NO. | REVISION | DATE |
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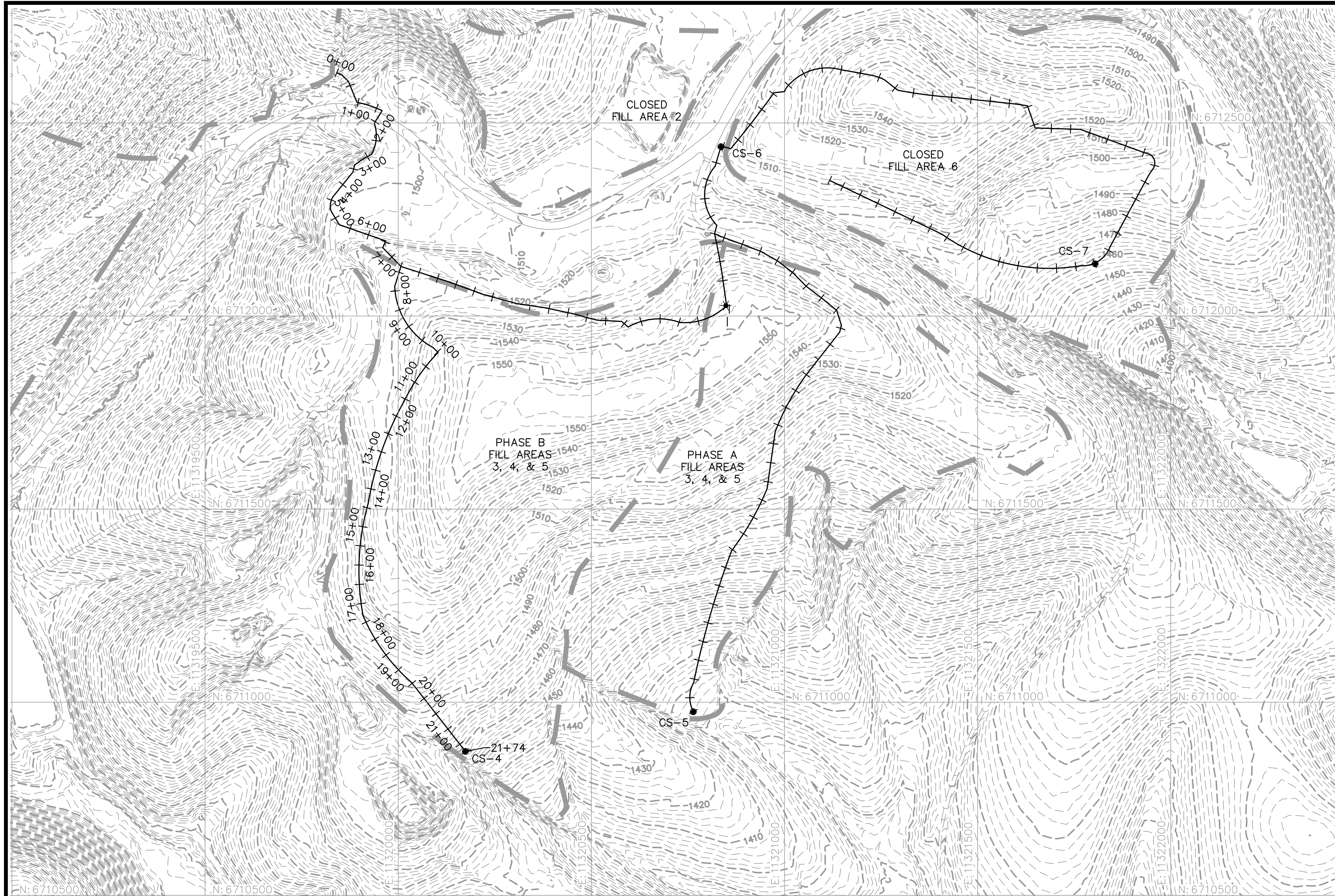
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 SWP #21 - FILL AREAS 3, 4, 5
 PROJECT TITLE: AUGUSTA REGIONAL LANDFILL
 GCCS DESIGN AND EXPANSION

CLIENT: AUGUSTA REGIONAL LANDFILL
 749 CHRISTIANS CREEK RD
 STAUNTON, VA 24401

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
 PH. (804) 378-7400 FAX. (804) 378-7433

CADD FILE: 02208015.37
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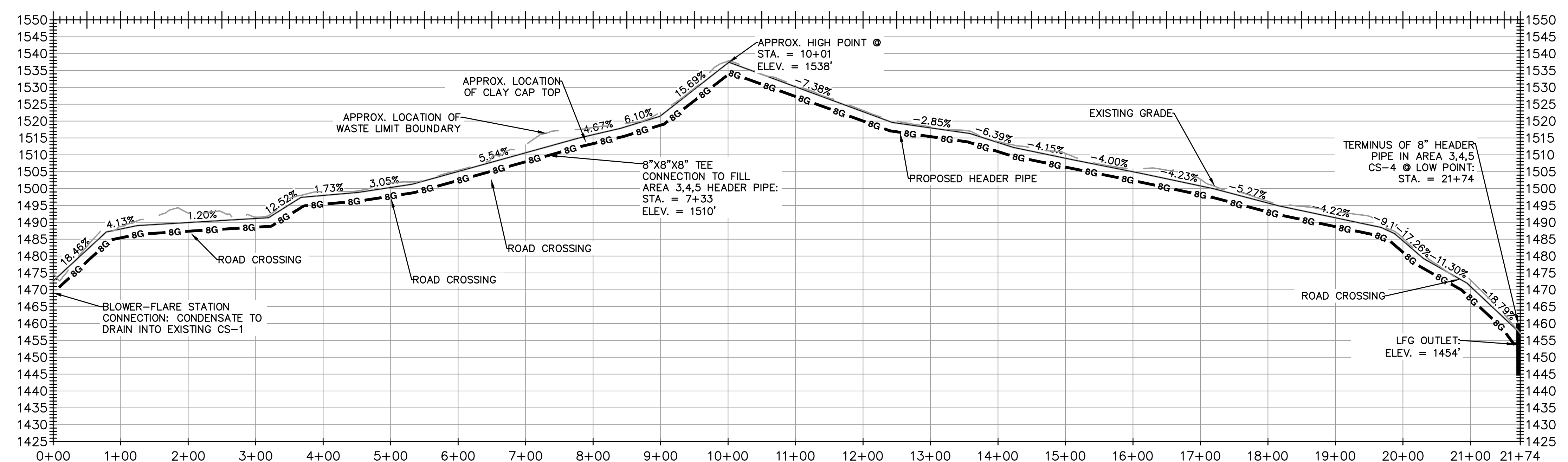
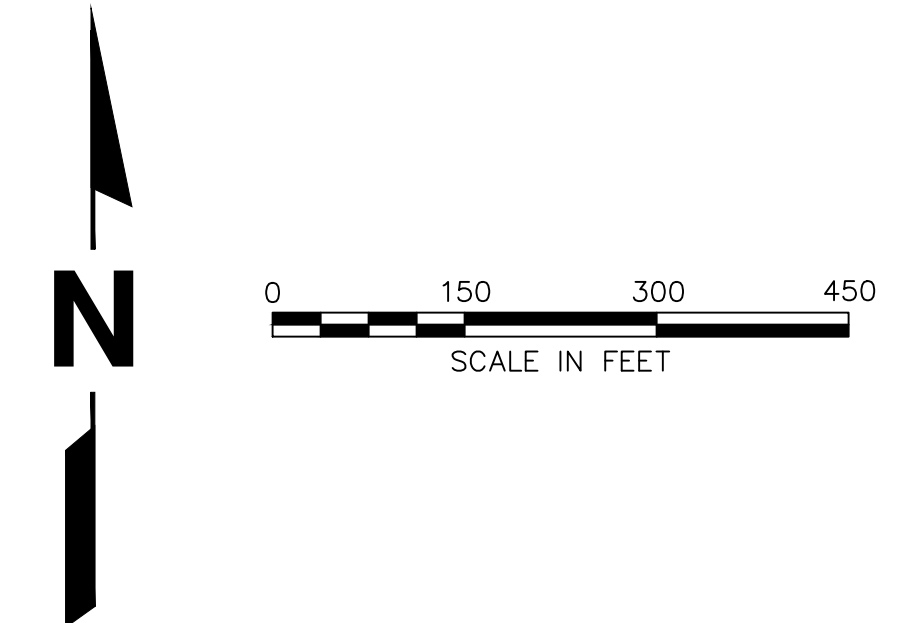
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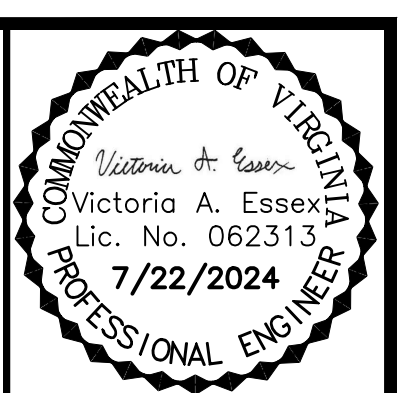
LEGEND

- EXISTING CONTOURS (2' MINOR)
- EXISTING CONTOURS (10' MAJOR)
- - - - - EXISTING ROAD
- ▬ APPROXIMATE PHASE BOUNDARY
- PROPOSED PERIMETER LFG HEADER ALIGNMENT
- 8G — 8G — PROPOSED 8 IN. LFG HEADER PIPING
- CS-5 PROPOSED CONDENSATE SUMP

- NOTES:**
1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
 2. THE GCCS LAYOUT FOR FILL AREA NO. 3, 4, AND 5 AND FILL AREA NO. 6 IS CONCEPTUAL IN NATURE AND REFLECTS THE CONVERSION OF EXISTING PASSIVE GAS MANAGEMENT FEATURES TO ACTIVE CONTROL IN ACCORDANCE WITH NSPS SUBPART XXX. THE ACTUAL NUMBER OF EXISTING VENTS TO BE CONNECTED WILL BE BASED ON GAS PRODUCTION RATES AT THE TIME OF INSTALLATION AT THESE OLD CLOSED AREAS.
 3. SLOPES SHOWN ON THE PROFILE(S) ARE APPROXIMATE EXISTING SURFACE GRADES. HEADER DEPTH SHOULD BE ADJUSTED TO ACHIEVE MINIMUM SLOPES OUTLINED IN DETAIL 1 AND DETAIL 2 ON SHEET NO. 9.



BLOWER-FLARE CONNECTION LFG HEADER



| NO. | REVISION | DATE |
|-----|-------------------------|---------|
| 1 | ESC PLAN & OVERALL REV. | 7/22/24 |

SHEET TITLE: PROPOSED LFG HEADER PROFILE 3
 SWP #21 BLOWER-FLARE CONNECTION

PROJECT TITLE: AUGUSTA REGIONAL LANDFILL
 GCCS DESIGN AND EXPANSION

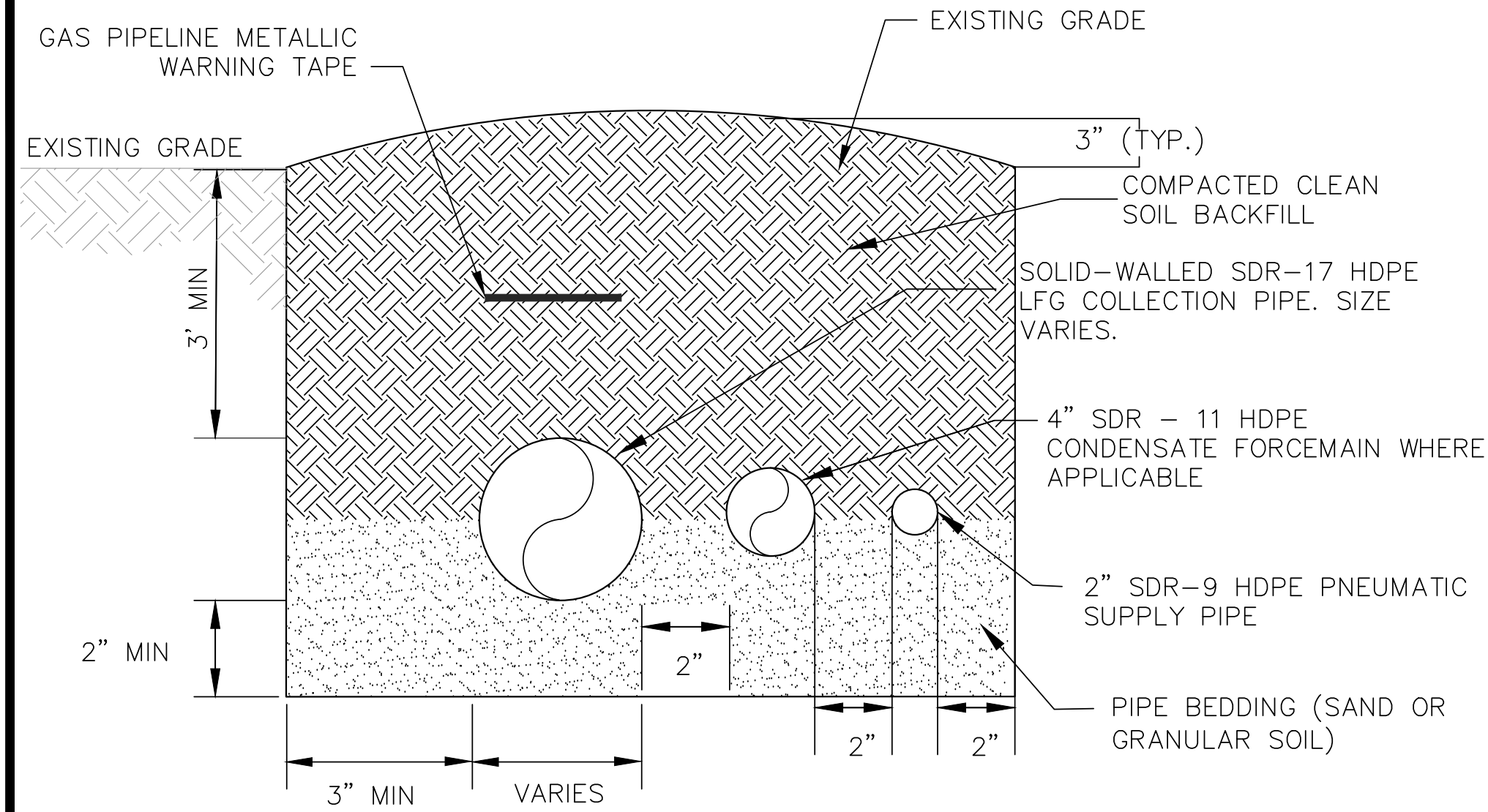
CLIENT: AUGUSTA REGIONAL LANDFILL
 749 CHRISTIANS CREEK RD
 STAUNTON, VA 24401

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
 PH. (804) 378-7440 FAX. (804) 378-7433

PROJ. NO. 02208015.37
 DWN. BY: C/JW
 CHK. BY: VAE
 APP. BY: VAE

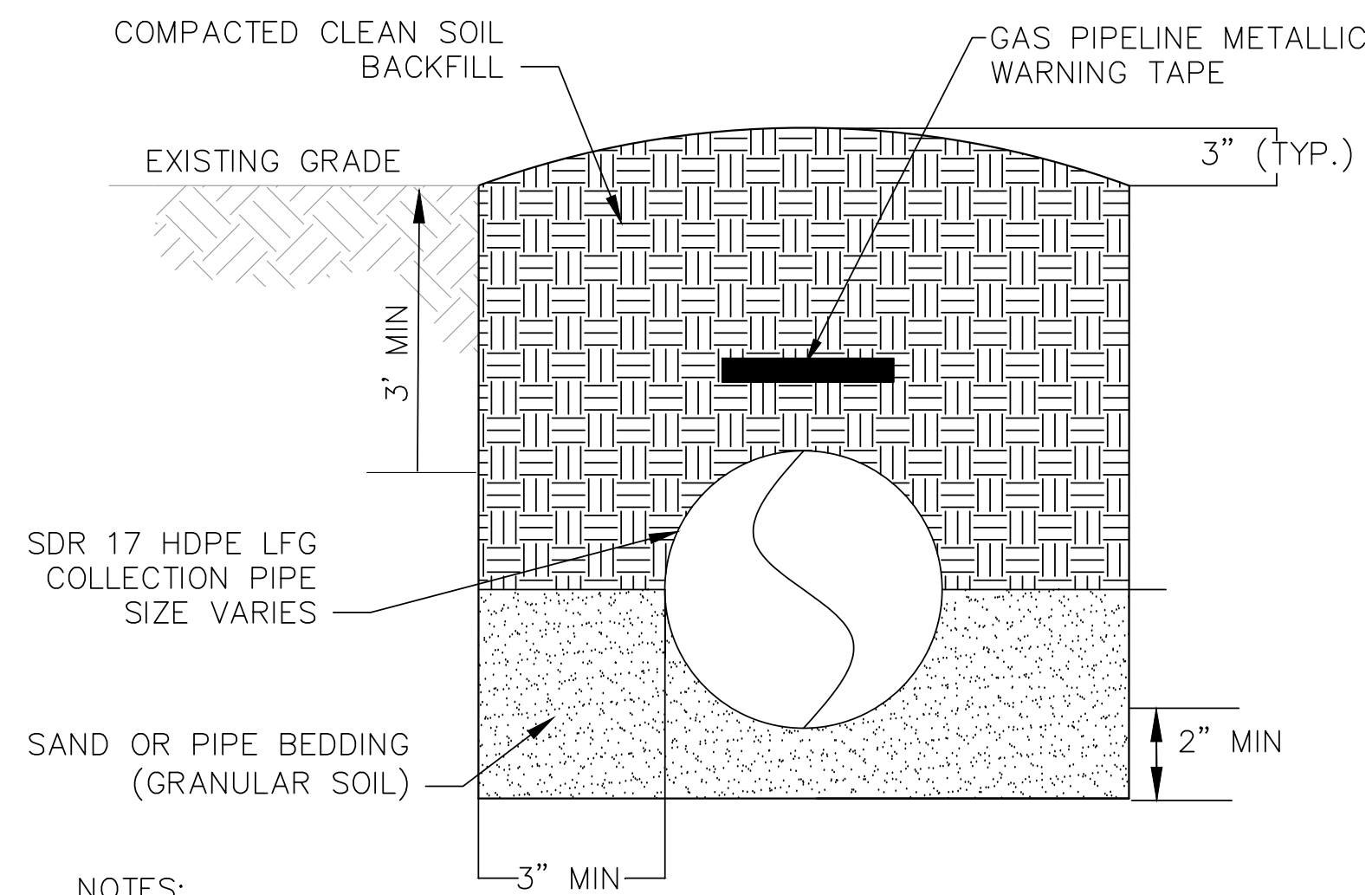
CADD FILE: 02208015.37
 DATE: 5/14/24
 SCALE:

DRAWING NO. **7C** of 14



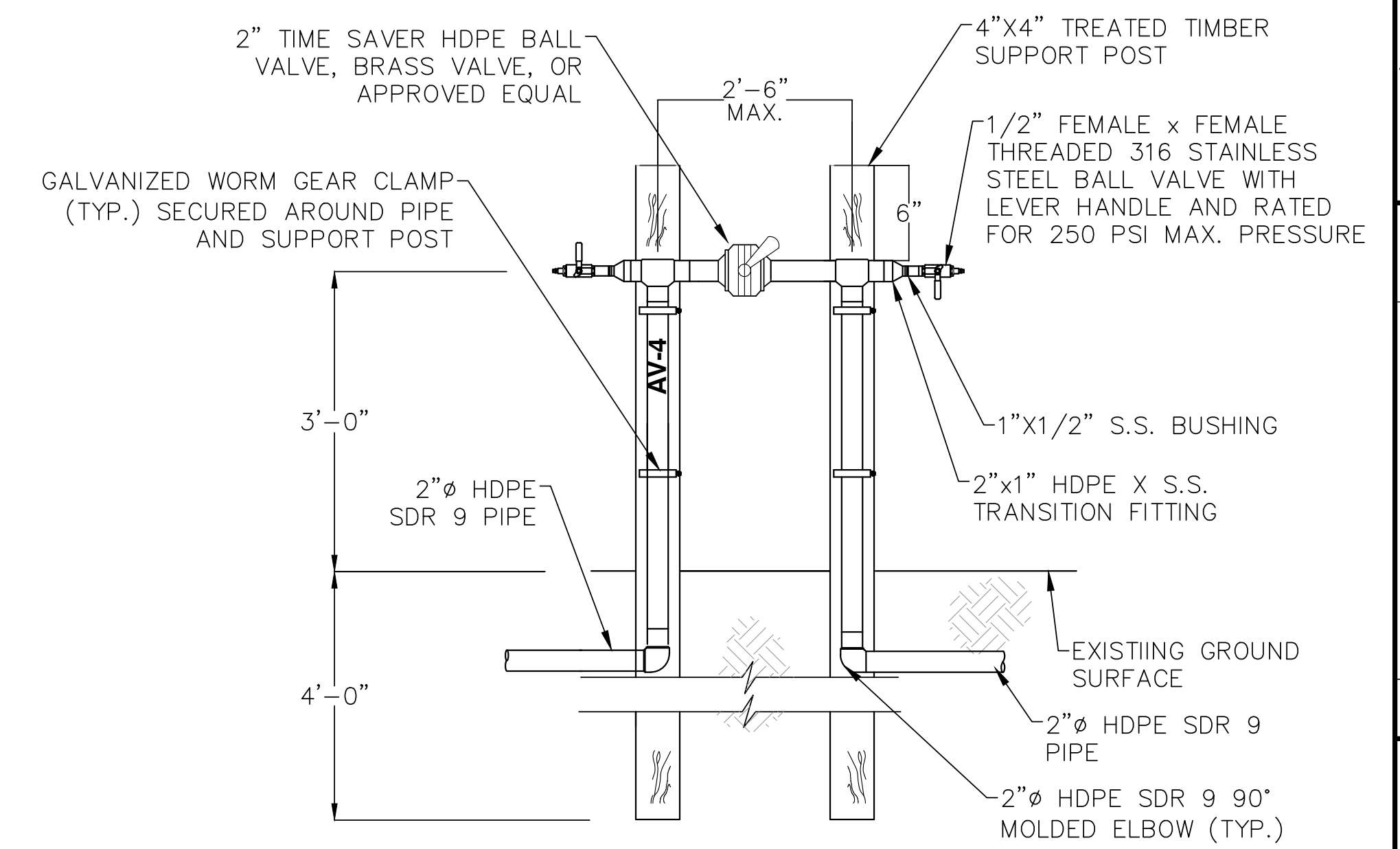
- NOTES:
- TRENCHING AND EXCAVATION SHALL CONFORM WITH OSHA TRENCHING AND EXCAVATION REGULATIONS AS REVISED IN SUBPART P OF PART 1926 IN THE FEDERAL REGISTER.
 - EXCAVATIONS GREATER THAN 5 FT, CUT SLOPE BACK AT 1H:1V MINIMUM SLOPE OR USE TRENCH BOX.
 - LFG PIPING SHALL BE PLACED AT 4% MINIMUM SLOPE WITHIN WASTE LIMITS.
 - LFG PIPING SHALL BE PLACED AT 2% MINIMUM SLOPE OUTSIDE OF WASTE LIMITS (UNLESS APPROVED BY ENGINEER OR OWNER).
 - REPAIR FINAL CAP WITHIN FILL AREAS 3 THROUGH 6 OF SWP #21 PER 1/9 11

BURIED LFG COLLECTION PIPE IN COMMON TRENCH WITH AIR AND FORCEMAIN DETAIL
N.T.S. 1/9 6A 9

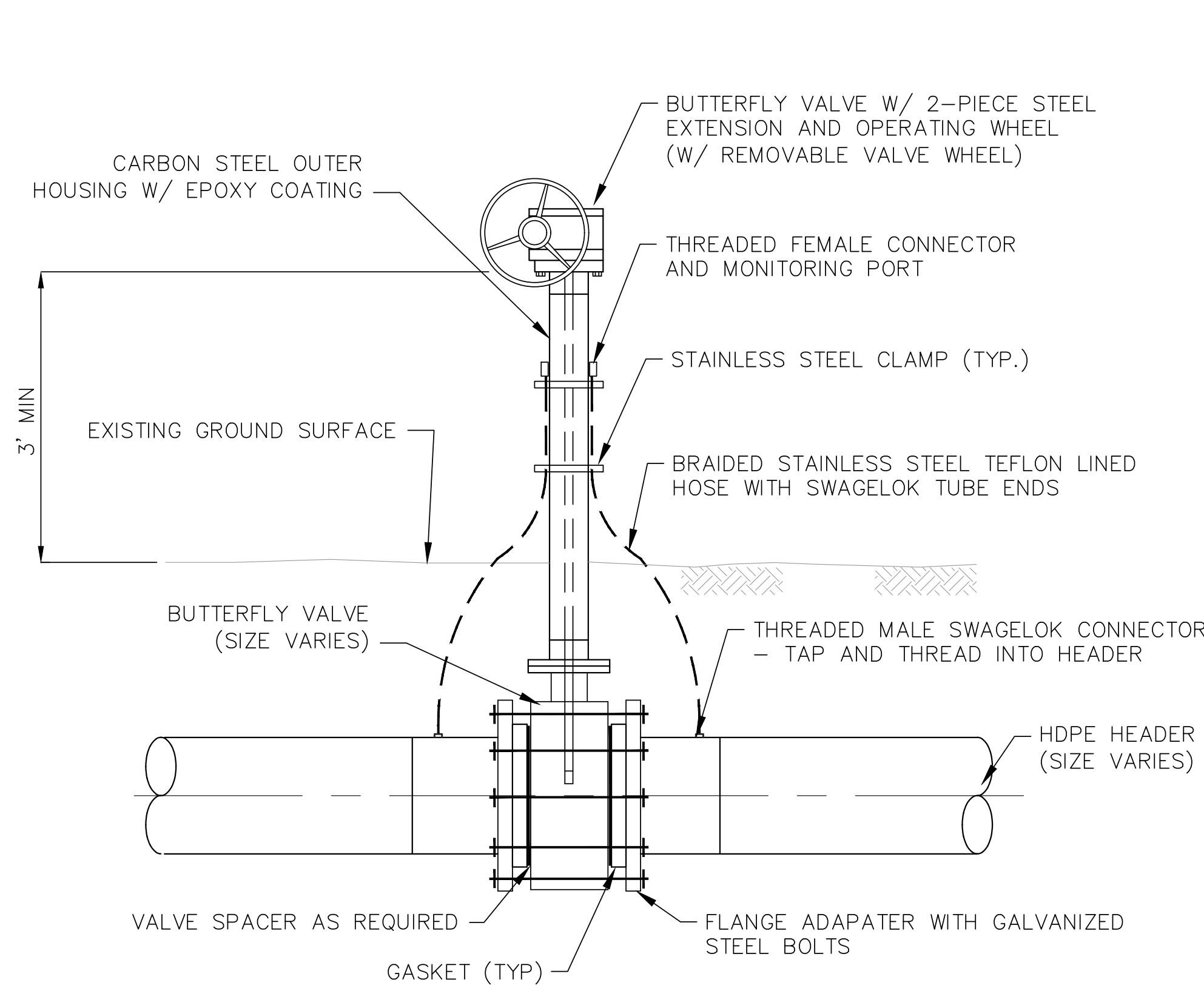


- NOTES:
- TRENCHING AND EXCAVATION SHALL CONFORM WITH OSHA TRENCHING AND EXCAVATION REGULATIONS AS REVISED IN SUBPART P OF PART 1926 IN THE FEDERAL REGISTER.
 - EXCAVATIONS GREATER THAN 5 FT, CUT SLOPE BACK AT 1H:1V MINIMUM SLOPE OR USE TRENCH BOX.
 - LFG PIPING SHALL BE PLACED AT 4% MINIMUM SLOPE WITHIN WASTE LIMITS.
 - REPAIR FINAL CAP WITHIN FILL AREAS 3 THROUGH 6 OF SWP #21 PER 1/9 11

BURIED LFG COLLECTION PIPE TRENCH DETAIL
N.T.S. 2/9 6A,6B

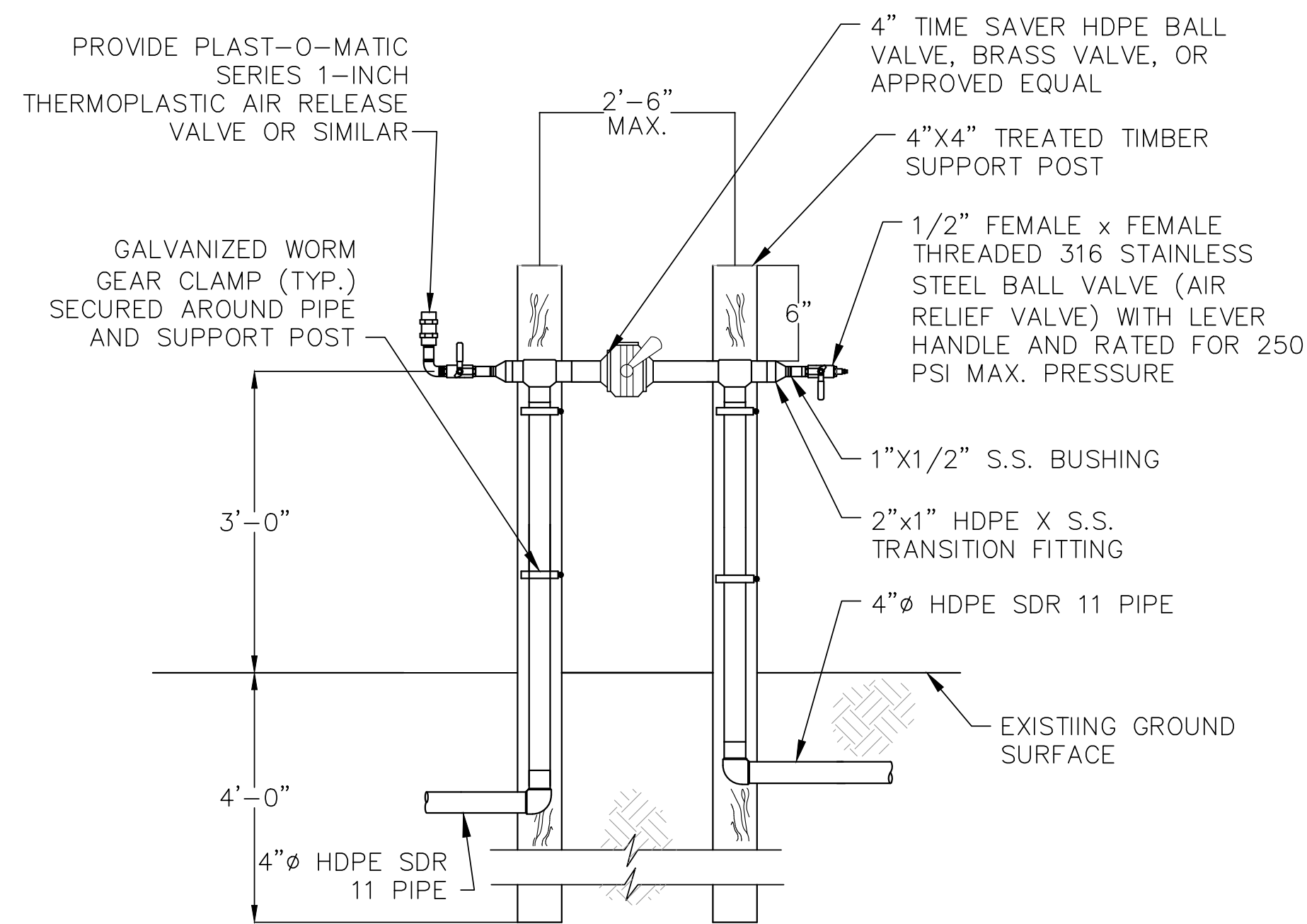


AIRLINE ISOLATION VALVE DETAIL
N.T.S. 3/9 6A,6B

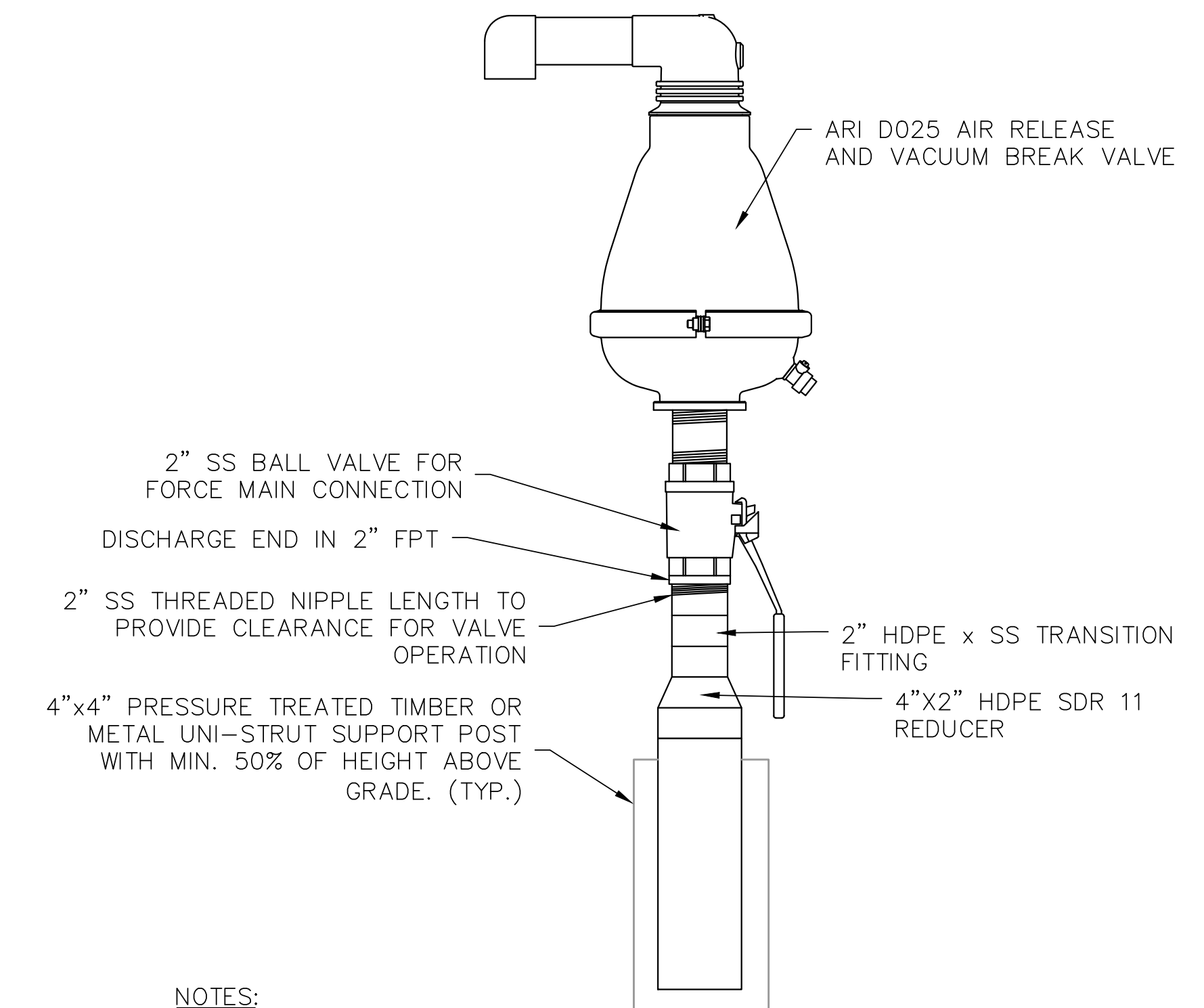


- NOTES:
- WRAP AND TAPE THE VALVE, FLANGE, AND BOLTS IN 5-MIL POLYETHYLENE SHEETING PRIOR TO BACKFILLING.

LFG ISOLATION VALVE DETAIL
N.T.S. 4/9 6A,6B

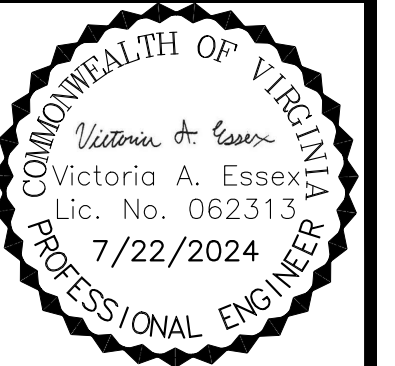


FORCEMAIN ISOLATION VALVE DETAIL
N.T.S. 5/9 6A,6B



- NOTES:
- SECURE WITH AT LEAST 3 WORM GEAR CLAMPS ABOVE GRADE ALONG LENGTH OF MANIFOLD.
 - INSTALL PLUMB TO GROUND. MANIFOLD IS NOT TO BE SECURED TO VACUUM RISER.

FORCEMAIN AIR RELEASE VALVE DETAIL
N.T.S. 6/9 6A,6B



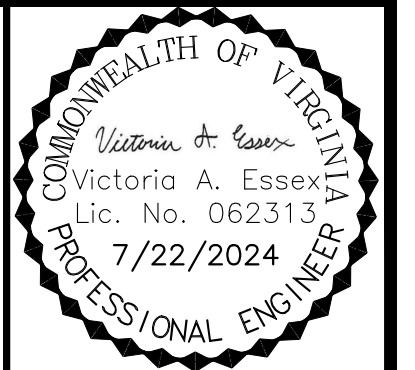
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| 7/22/24 <td>ESC PLAN & OVERALL REV. <td>1</td> </td> | ESC PLAN & OVERALL REV. <td>1</td> | 1 |
| | | 2 |
| | | 3 |
| | | 4 |

SHEET TITLE: LFG SYSTEM DETAILS 1
PROJECT TITLE: AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION

CLIENT: AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VA 24401

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

CADD FILE: 02208015.37
DATE: 5/14/24
SCALE: NO SCALE
DRAWING NO.



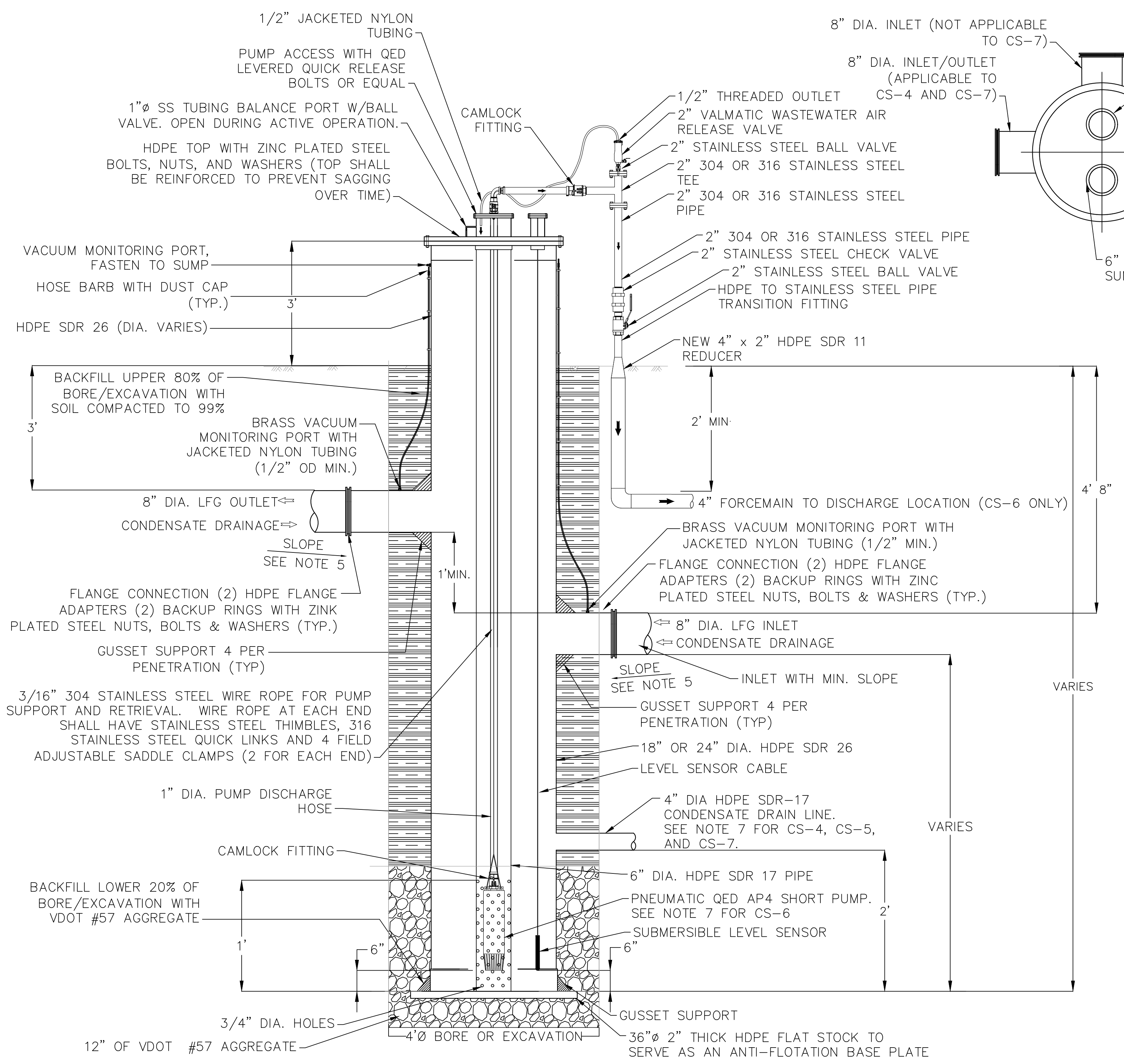
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|----------|-------------------------|
| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |

SHEET TITLE: **LFG SYSTEM DETAILS 2**
 PROJECT TITLE: **AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION**

CLIENT: **AUGUSTA REGIONAL LANDFILL
 749 CHRISTIANS CREEK RD
 STAUNTON, VA 24401**

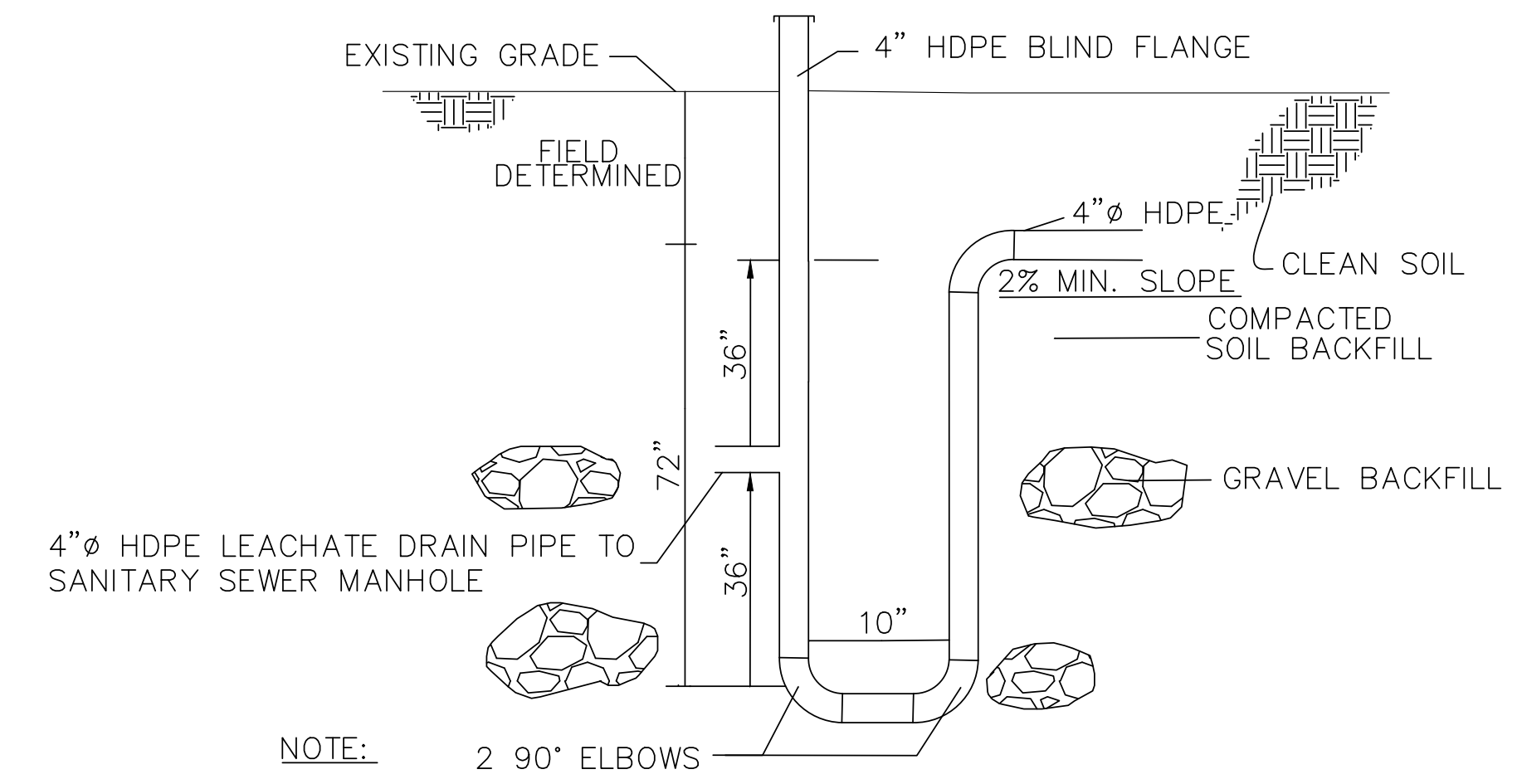
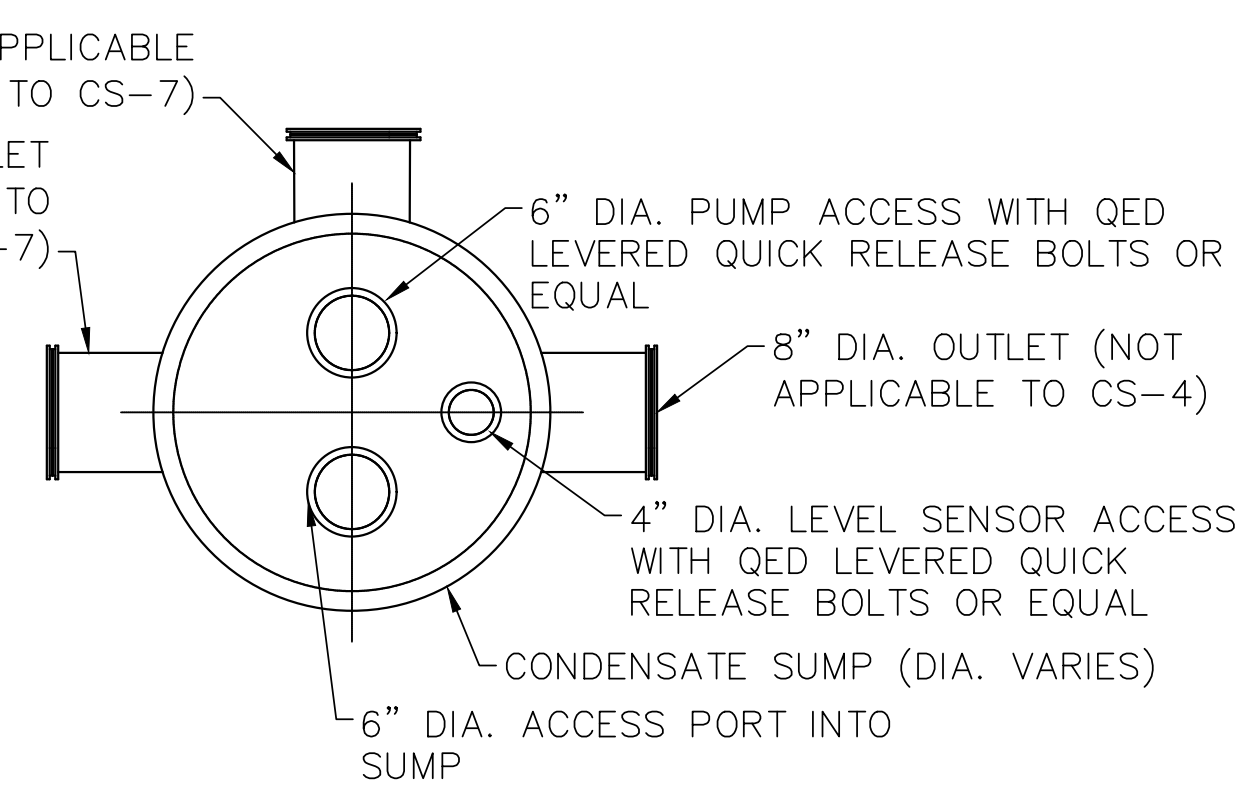
SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
 PH: (804) 378-7400 FAX: (804) 378-7433

CADD FILE: 02208015.37
 DATE: 5/14/24
 SCALE: NO SCALE
 DRAWING NO.

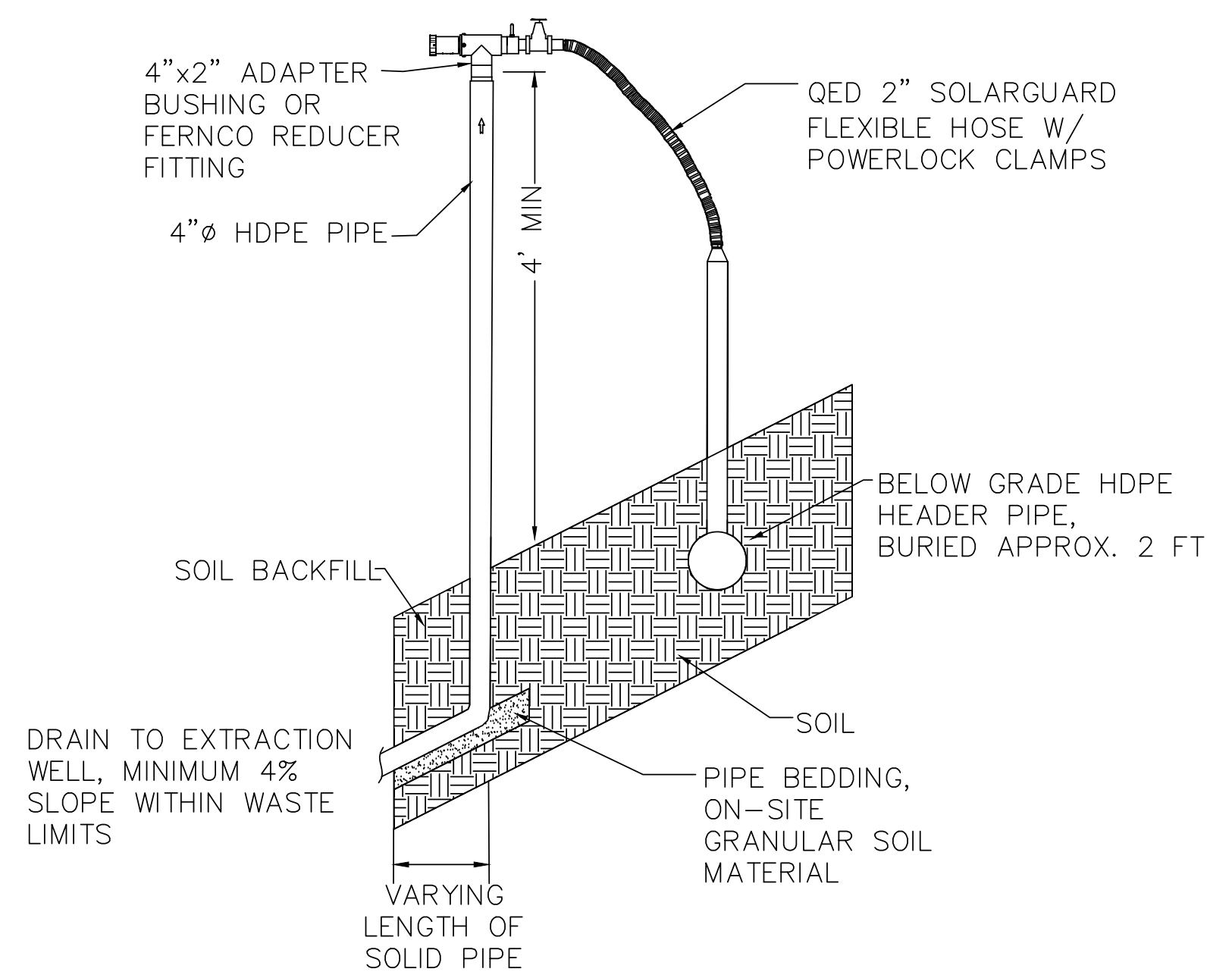


- NOTES:**
- CONTRACTOR SHALL PROVIDE ALL COMPONENTS SHOWN AND NOT SHOWN FOR A COMPLETE AND OPERATIONAL CONDENSATE SUMP.
 - PROVIDE REGULATOR, AND AIR EXHAUST PORT EQUIPPED WITH NEEDLE VALVE FOR THROTTLING PURPOSES AND PLUMBED ABOVE THE HIGH LIQUID LEVEL FOR PNEUMATIC PUMP.
 - INSULATION TO BE INSTALLED BY CONTRACTOR ON ALL EXPOSED PIPING FROM PUMP STATION TO FORCEMAIN.
 - VDOT NO. 57 AGGREGATE TO BE INSTALLED UNDER BASE PLATE AT 12" MINIMUM DEPTH. BOTTOM 20% OF BORE OR EXCAVATION TO BE BACKFILLED WITH VDOT #57 AGGREGATE. TOP 80% TO BE BACKFILLED WITH SOIL COMPACTED TO 99% (ASTM D698).
 - MINIMUM SLOPE ON HEADER PIPES INSIDE AND OUTSIDE OF THE WASTE LIMITS SHALL BE 4% AND 1%, RESPECTIVELY.
 - LFG INLET/OUTLET DIMENSION SHALL BE 8" FOR CS-4 THROUGH CS-7.
 - CONDENSATE SUMP, CS-4, CS-5, AND CS-7, SHALL BE EQUIPPED WITH 4" GRAVITY DRAIN LINE EXTENDING TO U-TRAP AND 4" BFV TO ENABLE PASSIVE DISCHARGE TO EXISTING SANITARY SEWER. ALL CONDENSATE SUMPS SHALL BE FABRICATED WITH 6" INNER STRAW TO ENABLE A PUMP TO BE INSERTED AND CONNECTED TO FORCEMAIN. CONDENSATE SUMP CS-6 TO BE EQUIPPED WITH A QED AP4 SHORT PUMP AND CONNECTED TO FORCEMAIN UPON INSTALL.
 - SUMP DIMENSIONS VARY. SEE CONDENSATE SUMP AND PUMP SCHEDULE TABLE.

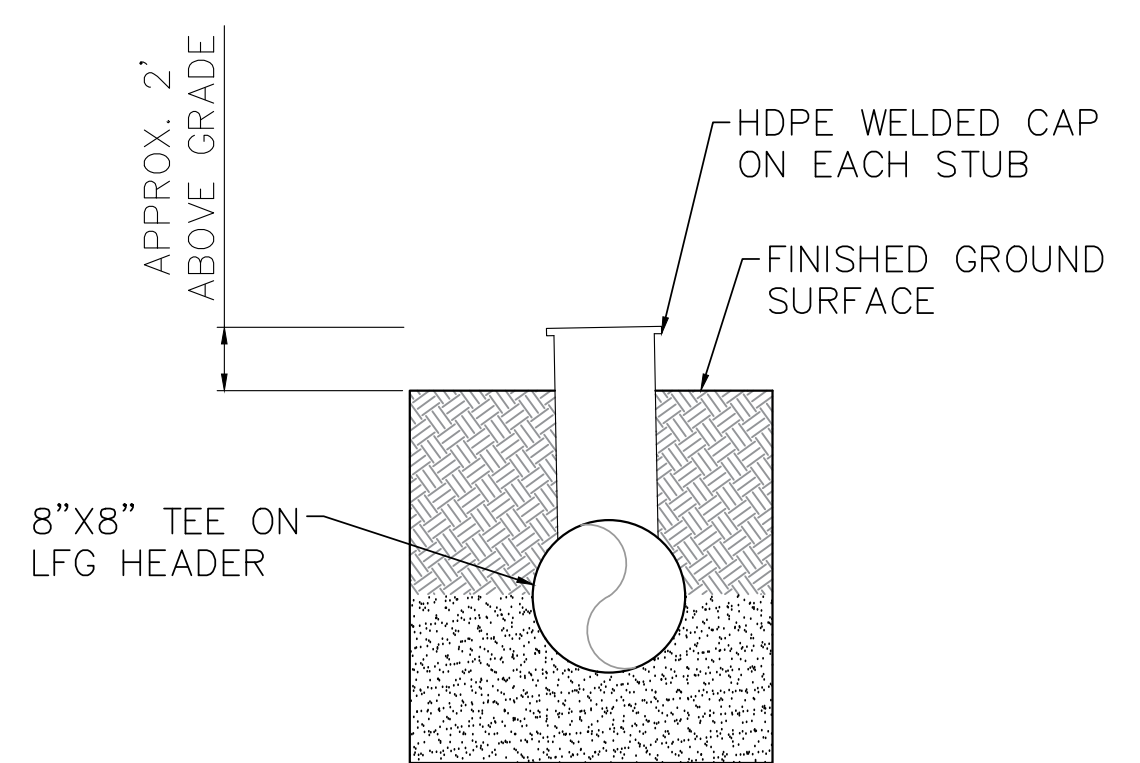
CONDENSATE SUMP DETAIL 1
 N.T.S. 6A10



U-TRAP DETAIL FOR CONDENSATE DISCHARGE 2
 N.T.S. 6A10



REMOTE WELLHEAD DETAIL 3
 N.T.S. 6A,6B

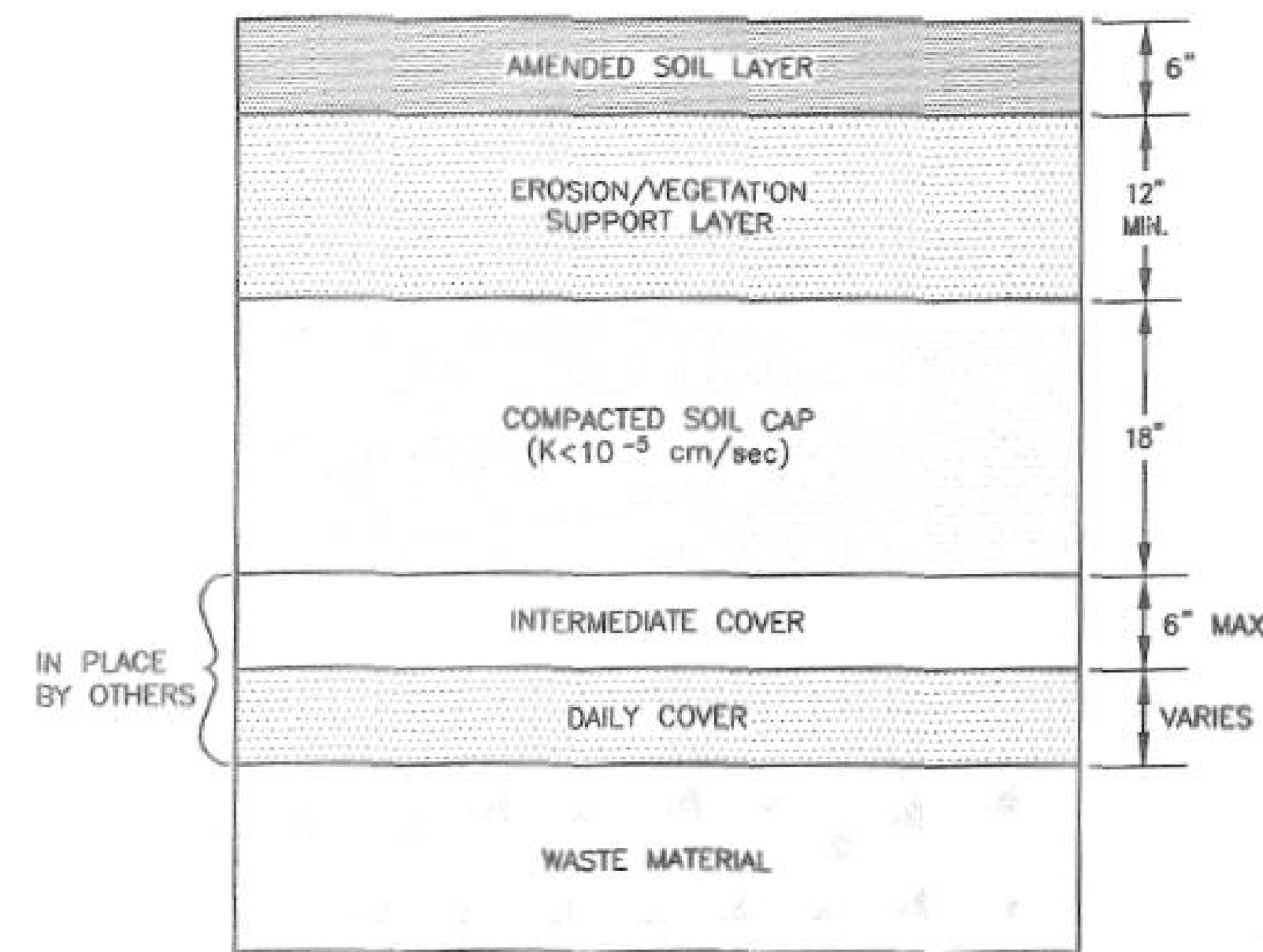
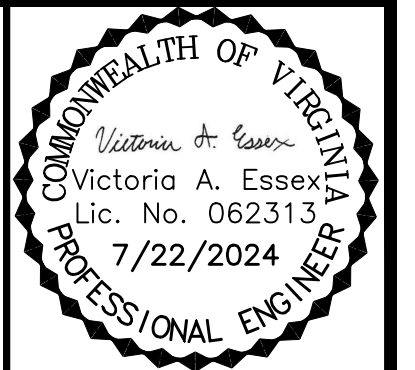


ACCESS RISER DETAIL 4
 N.T.S. 6A10

SWP #21 CONDENSATE SUMP AND PUMP SCHEDULE

| SUMP ID | SUMP DIA. (IN) | NORTHING | EASTING | ASSUMED GROUND ELEVATION (MSL) | TOP OF 8" OUTLET ELEVATION (FT) | TOP OF 8" INLET ELEVATION (FT) | STORAGE DEPTH (FT) | TOTAL SUMP HEIGHT (FT) | PUMP (Y/N) | PUMP SIZE (GPM) |
|---------|----------------|------------|-------------|--------------------------------|---------------------------------|--------------------------------|--------------------|------------------------|------------|-----------------|
| CS-4 | 24 | 6710872.49 | 11320174.02 | 1457 | 1452.3 | 154 | 2 | 14 | N | N/A |
| CS-5 | 24 | 6710975.30 | 11320764.02 | 1406 | 1401.3 | 1403 | 2 | 14 | N | N/A |
| CS-6 | 18 | 6712438.50 | 11320835.50 | 1507 | 1501.3 | 1504 | 6-7 | 16 | Y | 7.2 |
| CS-7 | 24 | 6712135.21 | 11321804.19 | 1457.5 | 1454.5 | 1452.8 | 2 | 14 | N | N/A |

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NOTES:

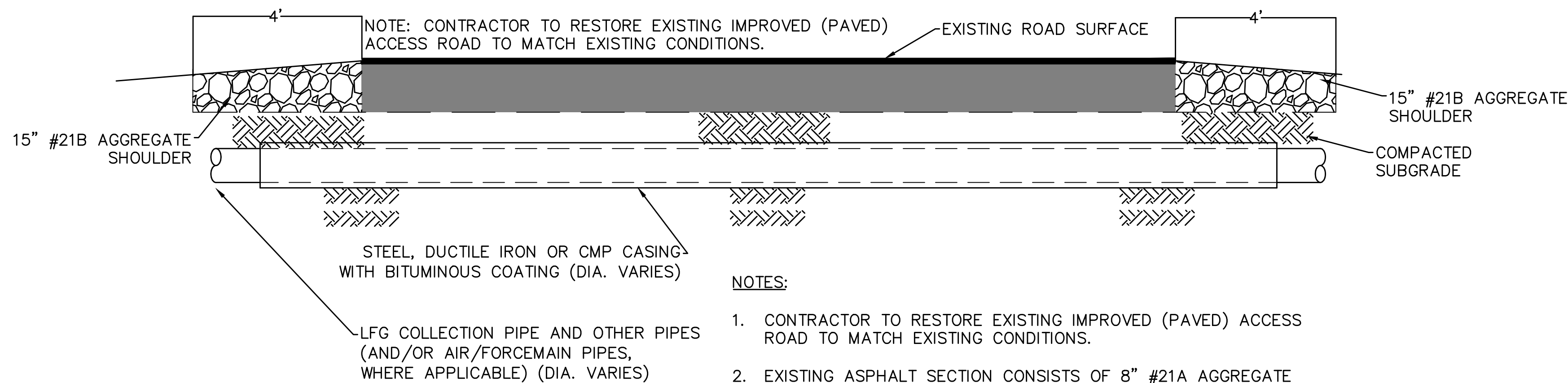
1. AMENDED SOIL LAYER SHALL BE PLACED AND SEEDING IMMEDIATELY AFTER INSTALLATION OF THE EROSION/VEGETATION SUPPORT LAYER. A TEMPORARY SEEDING MIXTURE MAY BE USED TO PROTECT THE AREA FROM EROSION. ONCE THE CLOSURE IS COMPLETED, FINAL SEEDING WILL OCCUR.
2. MATERIAL TO BE USED FOR THE FINAL COVER SHALL HAVE A PERMEABILITY AS PER THE SPECIFICATIONS AND SHALL BE APPROVED BY THE OWNER AND QUALITY ASSURANCE ENGINEER.
3. SOIL CAP SHALL BE COMPACTED AS PER THE SPECIFICATIONS. PLACEMENT OF THE FINAL COVER SHALL BE CERTIFIED BY QUALITY ASSURANCE ENGINEER.

SOIL CAP DETAIL
NOT TO SCALE

NOTE:

1. THIS DETAIL WAS OBTAINED FROM THE DETAILS SHEET #7 OF THE DRAWING SET TITLED "LANDFILL CLOSURE - FILL AREA NO. 6" BY DRAPER ADEN ASSOCIATES, DATED FEBRUARY 2, 2002.
2. IN ANY INSTANCES WHERE FINAL CAP IS DISTURBED WITHIN FILL AREAS 3 THROUGH 6 OF THE SWP #21 LANDFILL, CONTRACTOR TO REPAIR FINAL CAP PER THIS DETAIL
3. CONTRACTOR SHALL MANAGE INFILTRATION LAYER SOIL (COMPACTED SOIL CAP) SEPARATELY FROM OTHER LAYERS AND COMPACT TO 95% MDD DURING REPAIR. IF ADDITIONAL SOIL IS NEEDED, CONTRACTOR SHALL PROVIDE INFILTRATION LAYER SOIL (COMPACTED SOIL CAP) WITH A MAXIMUM PERMEABILITY OF 1×10^{-5} CM/S.

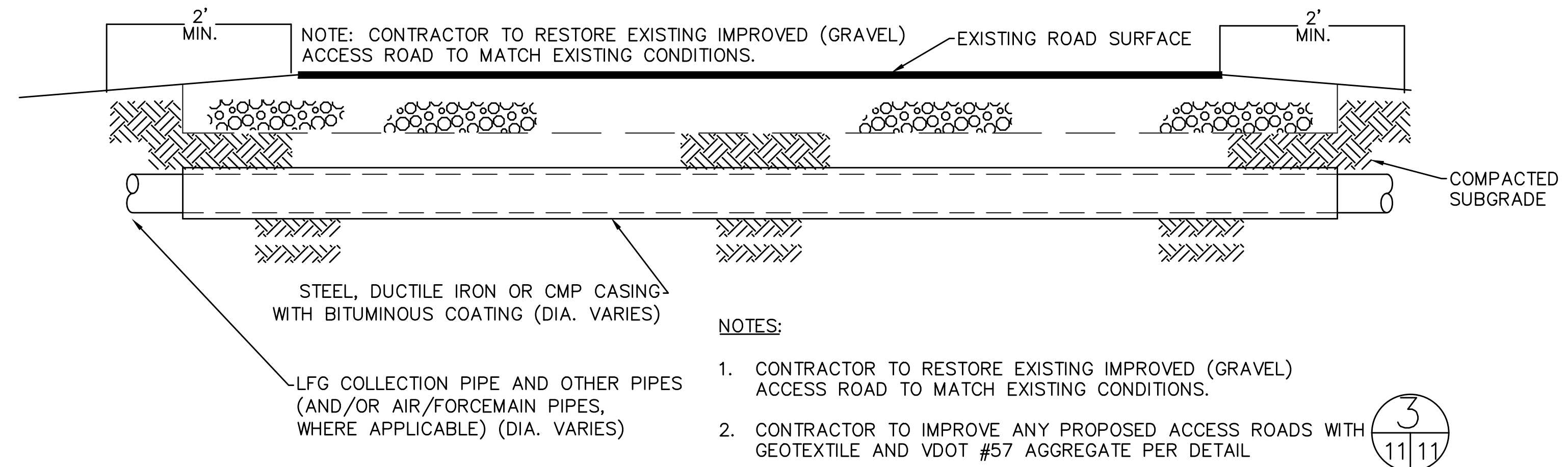
EXISTING CAP DETAIL - SWP #21
N.T.S. 6A,8 11,12



NOTES:

1. CONTRACTOR TO RESTORE EXISTING IMPROVED (PAVED) ACCESS ROAD TO MATCH EXISTING CONDITIONS.
2. EXISTING ASPHALT SECTION CONSISTS OF 8" #21A AGGREGATE BASE, 3" BM-25.0D, 2.5" IM-19.0D, AND 1.5" SM-9.5D.

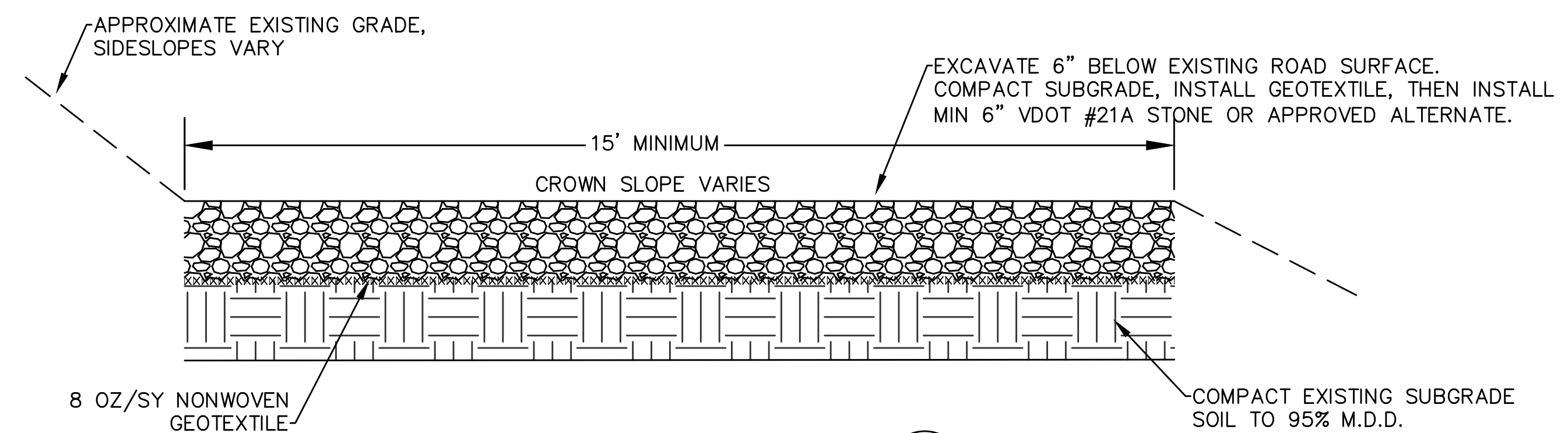
PAVED ROAD CROSSING DETAIL
N.T.S. 6A,11



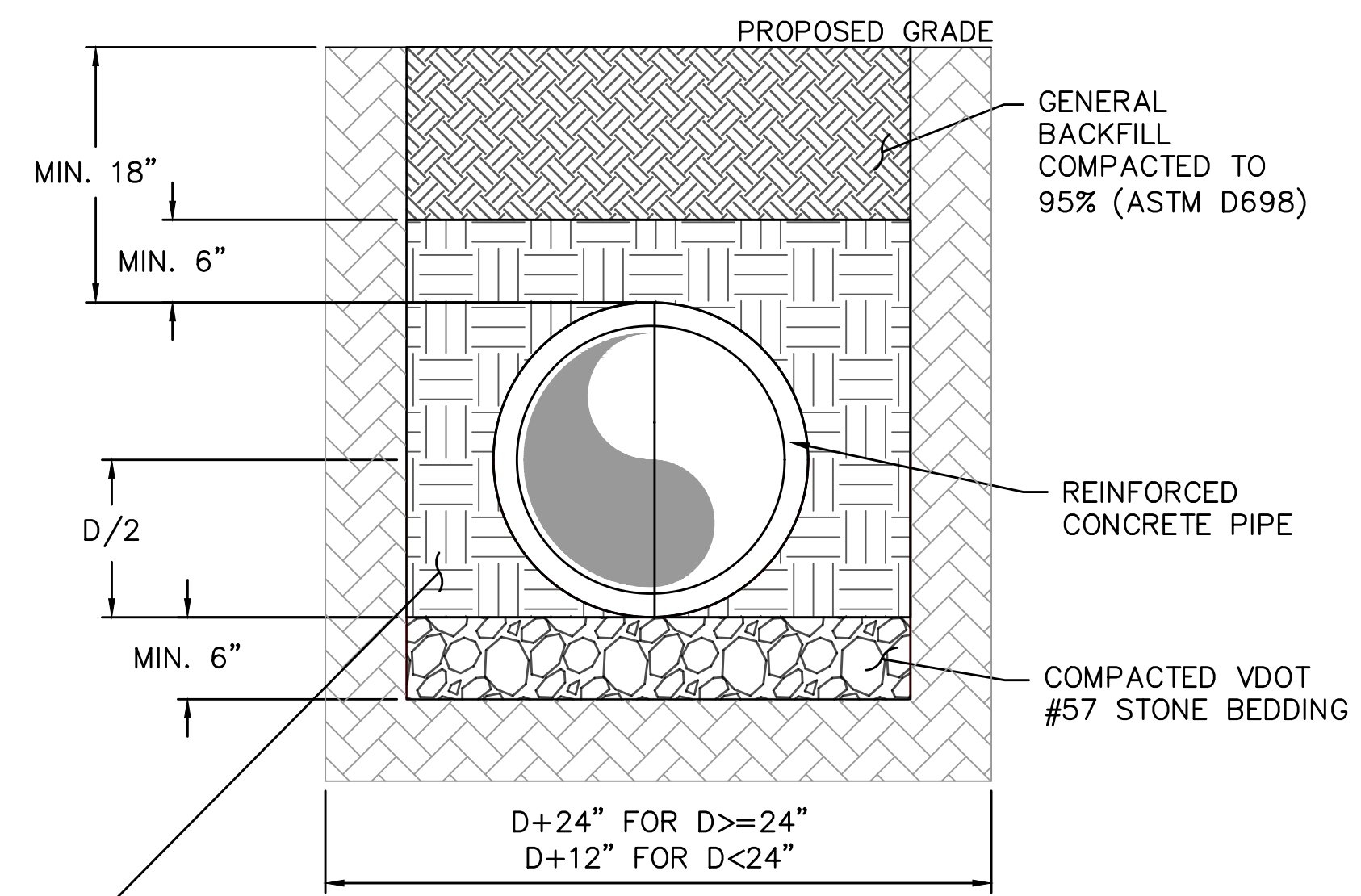
NOTES:

1. CONTRACTOR TO RESTORE EXISTING IMPROVED (GRAVEL) ACCESS ROAD TO MATCH EXISTING CONDITIONS.
2. CONTRACTOR TO IMPROVE ANY PROPOSED ACCESS ROADS WITH GEOTEXTILE AND VDOT #57 AGGREGATE PER DETAIL

GRAVEL ROAD CROSSING DETAIL
N.T.S. 6A,11



LANDFILL ACCESS ROAD DETAIL
N.T.S. 6A,9,11



NOTES:

1. IF UNDESIRABLE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, THE MATERIAL SHALL BE REMOVED AND REPLACED BY CRUSHED STONE AS REQUIRED BY THE ENGINEER.

STORMWATER CULVERT DETAIL
N.T.S. 6A,11

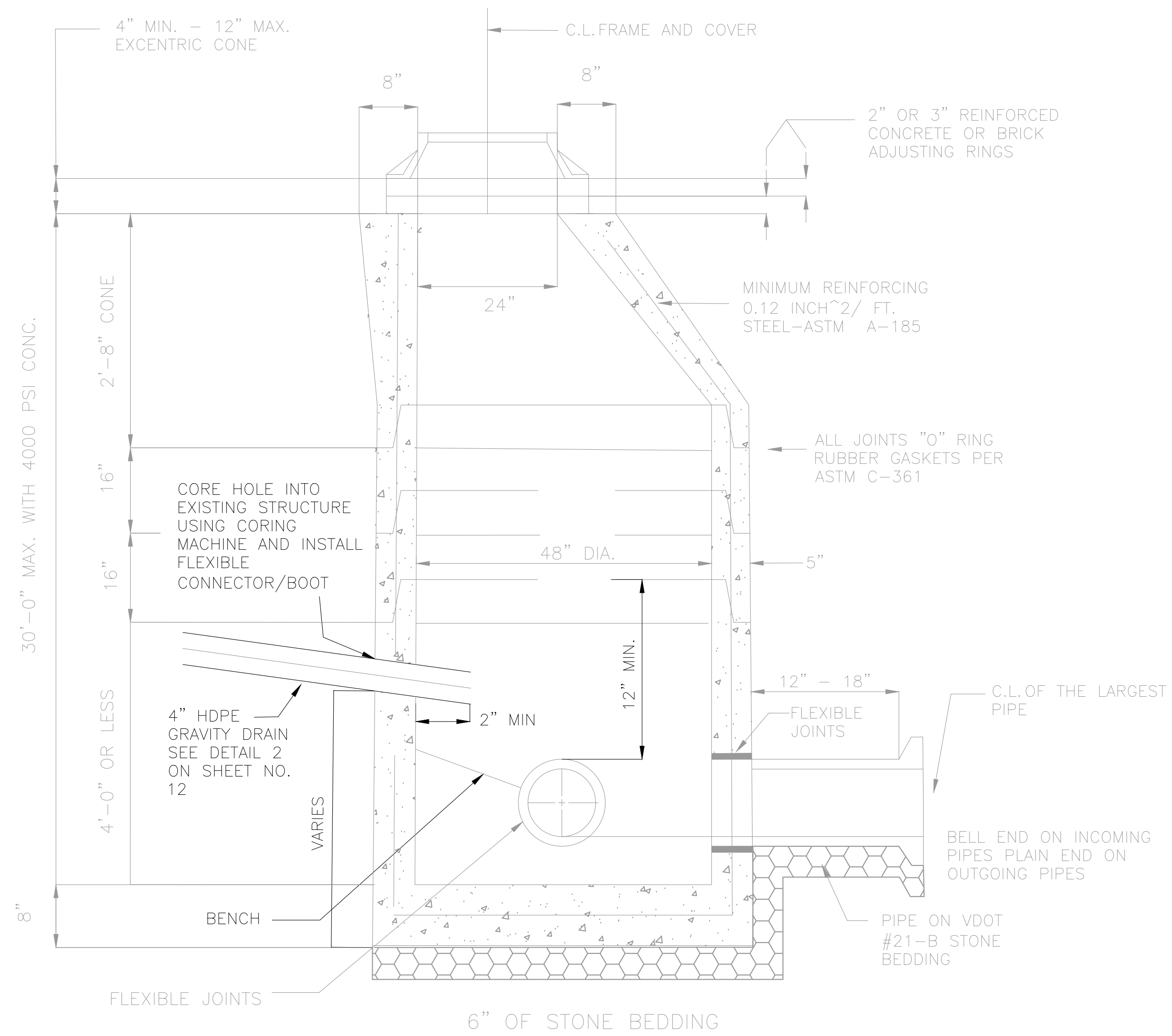
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| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |
| NO. | 2 |
| NO. | 3 |

| | |
|---------------|--|
| SHEET TITLE | LFG SYSTEM DETAILS 3 |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

| | |
|--------|--|
| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|--------|--|

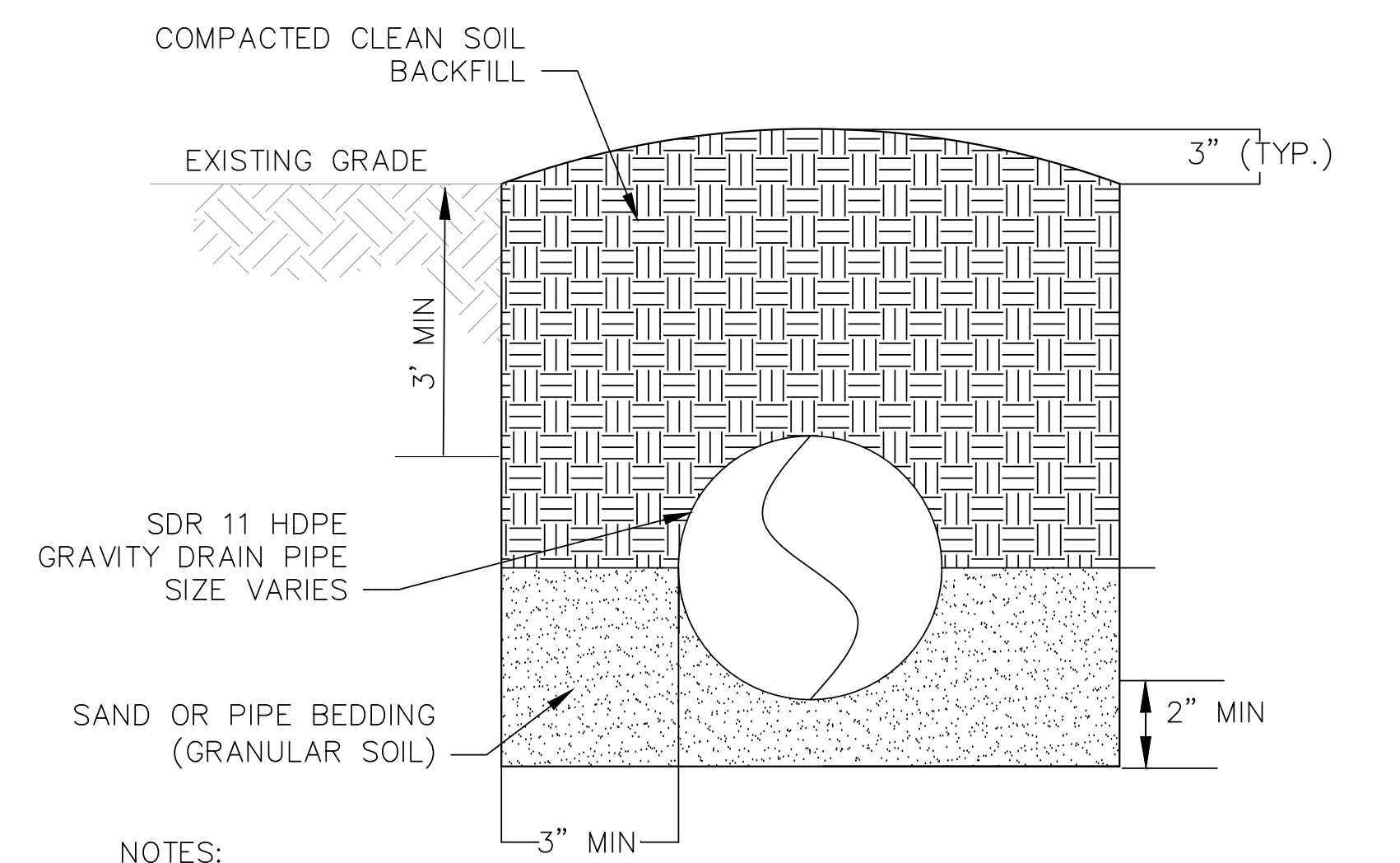
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|---------------|--|
| SCS ENGINEERS | STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN PARK - MIDLOTHIAN, VA 23113 PH. (804) 378-7440 FAX. (804) 378-7433 |
| PROJ. NO. | 02208015.37 |
| DATE | 5/14/24 |
| SCALE | NO SCALE |
| DRAWING NO. | 11 of 14 |

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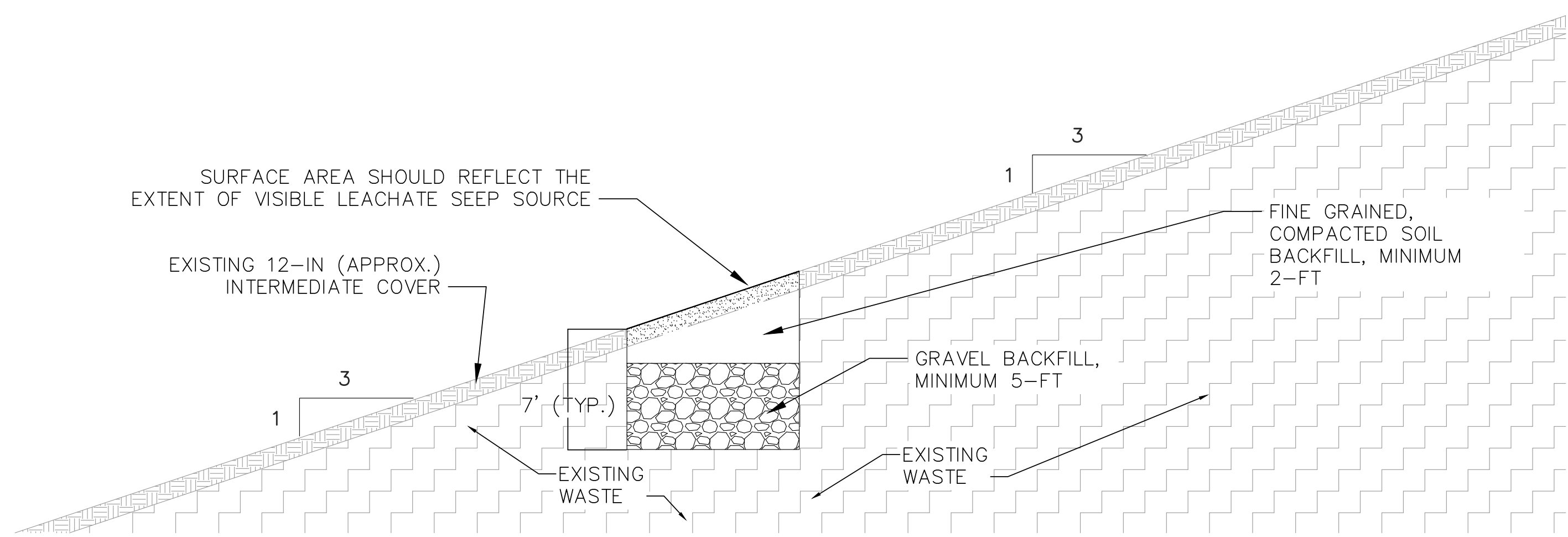


- NOTES:
- DO NOT CORE INTO CONE SECTION OF STRUCTURE.
 - GRAVITY LINE SHALL BE INSTALLED WITH A FLEXIBLE PIPE TO MANHOLE CONNECTOR/ BOOT AND ALL-STAINLESS STEEL TAKE UP CLAMPS IN ACCORDANCE WITH ASTM C923
 - CHIPPING, JACKING, OR BREAKING OF CONCRETE TO MAKE CONNECTIONS IS PROHIBITED. ANY SUCH OCCURRENCES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - THE CONNECTOR SHALL BE OF A SIZE SPECIFICALLY DESIGNED FOR THE PIPE SIZE AND MATERIAL BEING UTILIZED ON THE PROJECT

TYPICAL GRAVITY DRAIN CONNECTION TO STANDARD PRECAST MANHOLE
 N.T.S. 1
6A12



- NOTES:
- TRENCHING AND EXCAVATION SHALL CONFORM WITH OSHA TRENCHING AND EXCAVATION REGULATIONS AS REVISED IN SUBPART P OF PART 1926 IN THE FEDERAL REGISTER.
 - EXCAVATIONS GREATER THAN 5 FT, CUT SLOPE BACK AT 1H:1V MINIMUM SLOPE OR USE TRENCH BOX.
 - LFG PIPING SHALL BE PLACED AT 4% MINIMUM SLOPE WITHIN WASTE LIMITS.
 - REPAIR FINAL CAP WITHIN FILL AREAS 3 THROUGH 6 OF SWP #21 PER 1
1211
- BURIED GRAVITY DRAIN PIPE TRENCH DETAIL 2
6A12
 N.T.S.



- LEACHATE SEEP DETAIL 3
6A12
 N.T.S.
- NOTES:
- CONTRACTOR TO EXCAVATE EXISTING INTERMEDIATE COVER AND UNDERLYING WASTE TO A TOTAL DEPTH OF APPROXIMATELY 7.0-FT OR AS NEEDED TO ENABLE DRAINAGE. CONTRACTOR SHALL BACKFILL WITH 5-FT GRAVEL AND AT LEAST 2-FT OF FILL SOIL, AS SHOWN. THE TRENCH WIDTH SHALL BE APPROXIMATELY 24-36 IN, OR AS WIDE AS THE EXCAVATOR BUCKET.

| NO. | REVISION | DATE |
|-----|-------------------------|---------|
| 1 | ESC PLAN & OVERALL REV. | 7/22/24 |

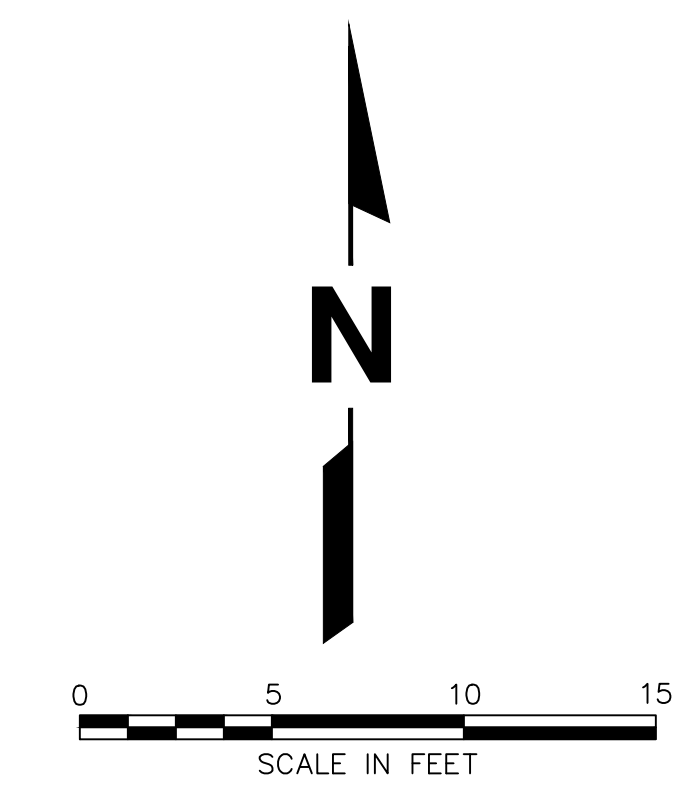
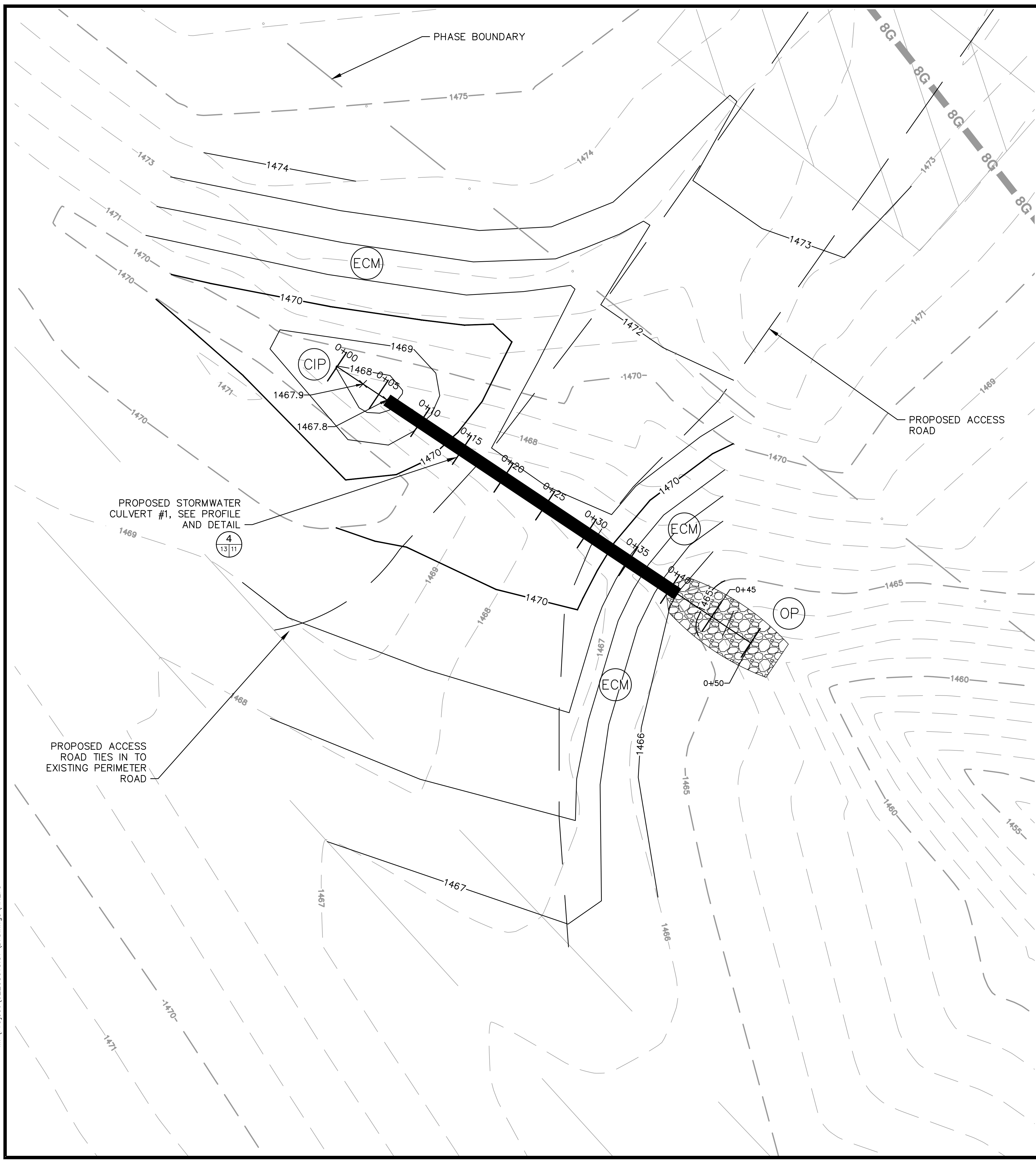
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| SHEET TITLE | LFG SYSTEM DETAILS 3 |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

| | |
|--------|--|
| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|--------|--|

| | | |
|---|---|------------------------------|
| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113 PH: (804) 378-7400 FAX: (804) 378-7433 | PROJ. NO. 02208015.37 DWN. BY: HGW CHK. BY: VAE | Q/A BY: C/JW APP. BY: VAE |
|---|---|------------------------------|

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| CADD FILE: | 02208015.37 |
| DATE: | 5/14/24 |
| SCALE: | NO SCALE |
| DRAWING NO. | |

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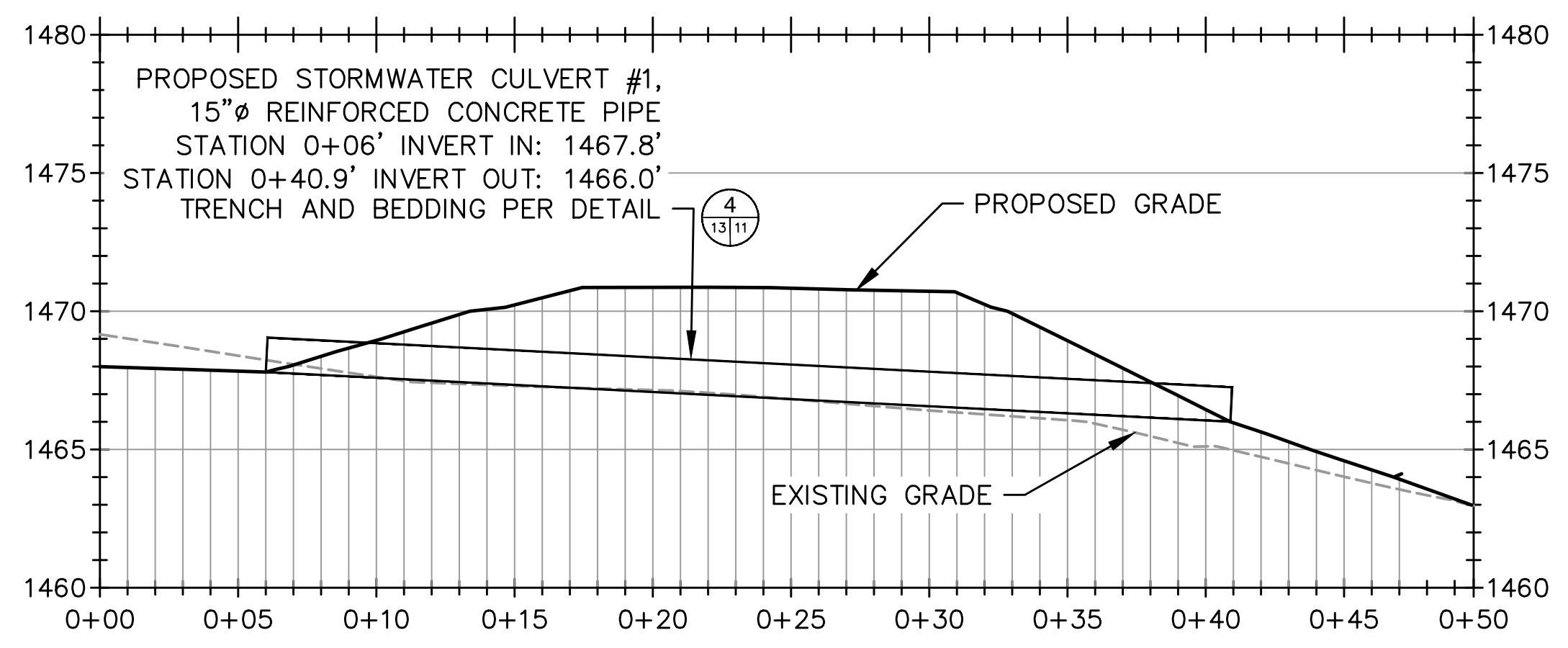


LEGEND

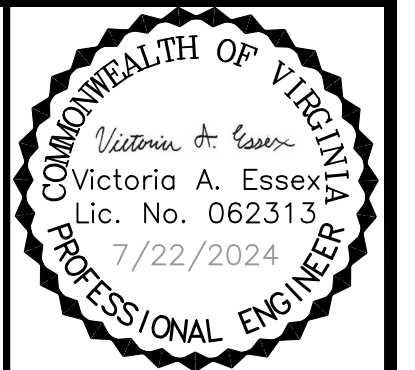
- EXISTING CONTOURS (1' MINOR)
- - - EXISTING CONTOURS (5' MAJOR)
- · - · - APPROX. PHASE BOUNDARY
- EDGE OF PROPOSED ROAD
- PROPOSED CONTOUR (1' MINOR)
- PROPOSED CONTOUR (5' MAJOR)
- PROPOSED CULVERT
- CIP CULVERT INLET PROTECTION
- OP OUTLET PROTECTION
- ECM EROSION CONTROL MATTING

NOTES:

1. THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NVS, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022.
2. GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM.
3. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
4. PROPOSED ACCESS ROAD SURFACE WITH GEOTEXTILE AND VDOT #57 AGGREGATE PER DETAIL (3/13/11)
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE REGULATIONS AND BEST PRACTICES WHEN WORKING AROUND OVERHEAD AND UNDERGROUND ELECTRICAL LINES.



STORMWATER CULVERT 1 PROFILE
H: 1" = 5'
V: 1" = 5'



| NO. | REVISION | DATE |
|-----|-------------------------|---------|
| 1 | ESC PLAN & OVERALL REV. | 7/22/24 |

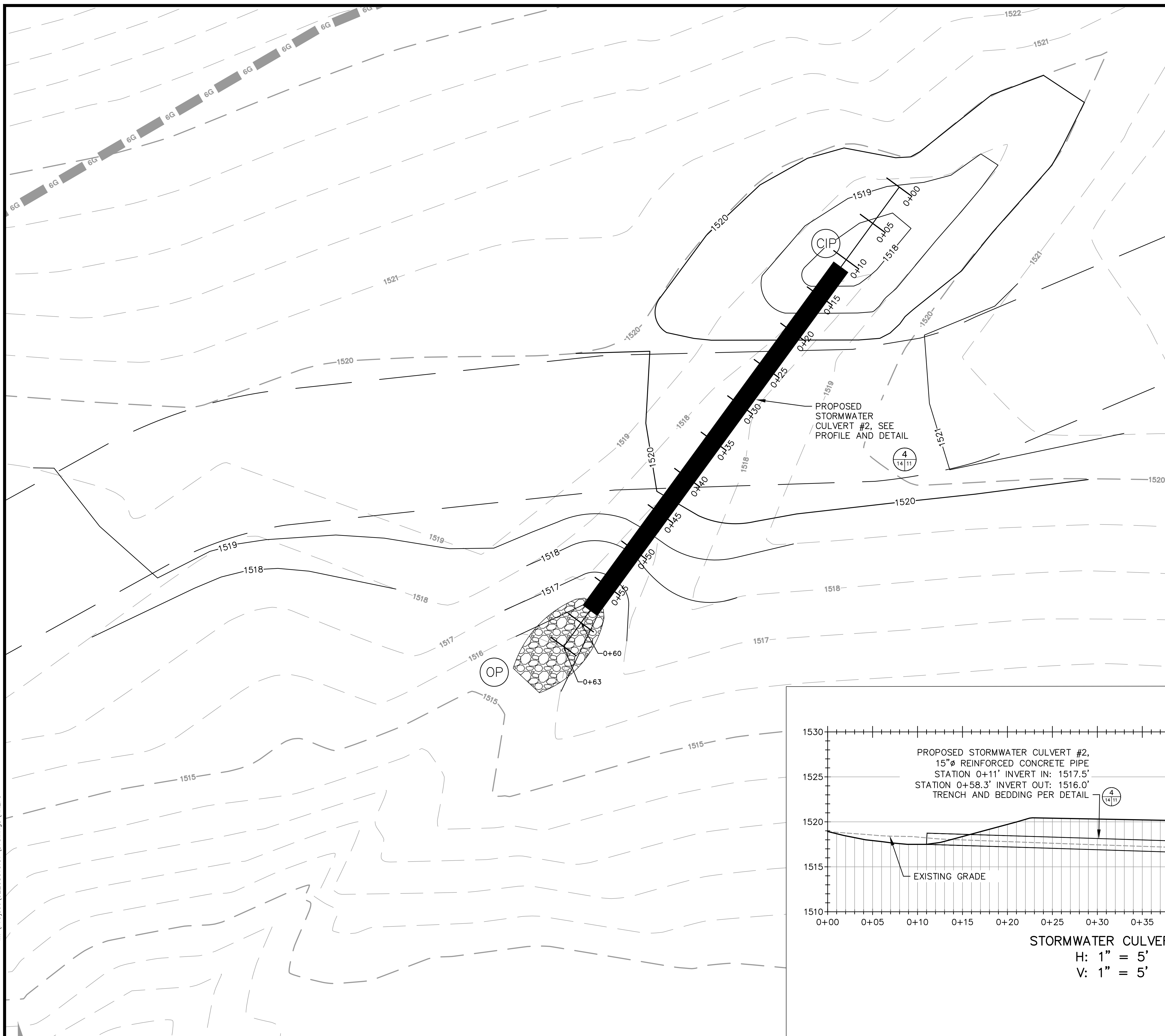
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| SHEET TITLE | STORMWATER CULVERT 1 |
| PROJECT TITLE | AUGUSTA REGIONAL LANDFILL GCCS DESIGN AND EXPANSION |

| | |
|--------|---|
| CLIENT | AUGUSTA REGIONAL LANDFILL 749 CHRISTIANS CREEK RD STAUNTON, VA 24401 |
|--------|---|

| | |
|---|--|
| SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 16521 MIDLOTHIAN PK - MIDLOTHIAN, VA 23113 PH: (804) 378-7440 FAX: (804) 378-7483 | O/A BY: VAE C/JW APP. BY: VAE HGW DWN. BY: HGW CHK. BY: VAE |
|---|--|

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| CADD FILE: | 02208015.37 |
| DATE: | 5/14/24 |
| SCALE: | AS SHOWN |
| DRAWING NO. | |

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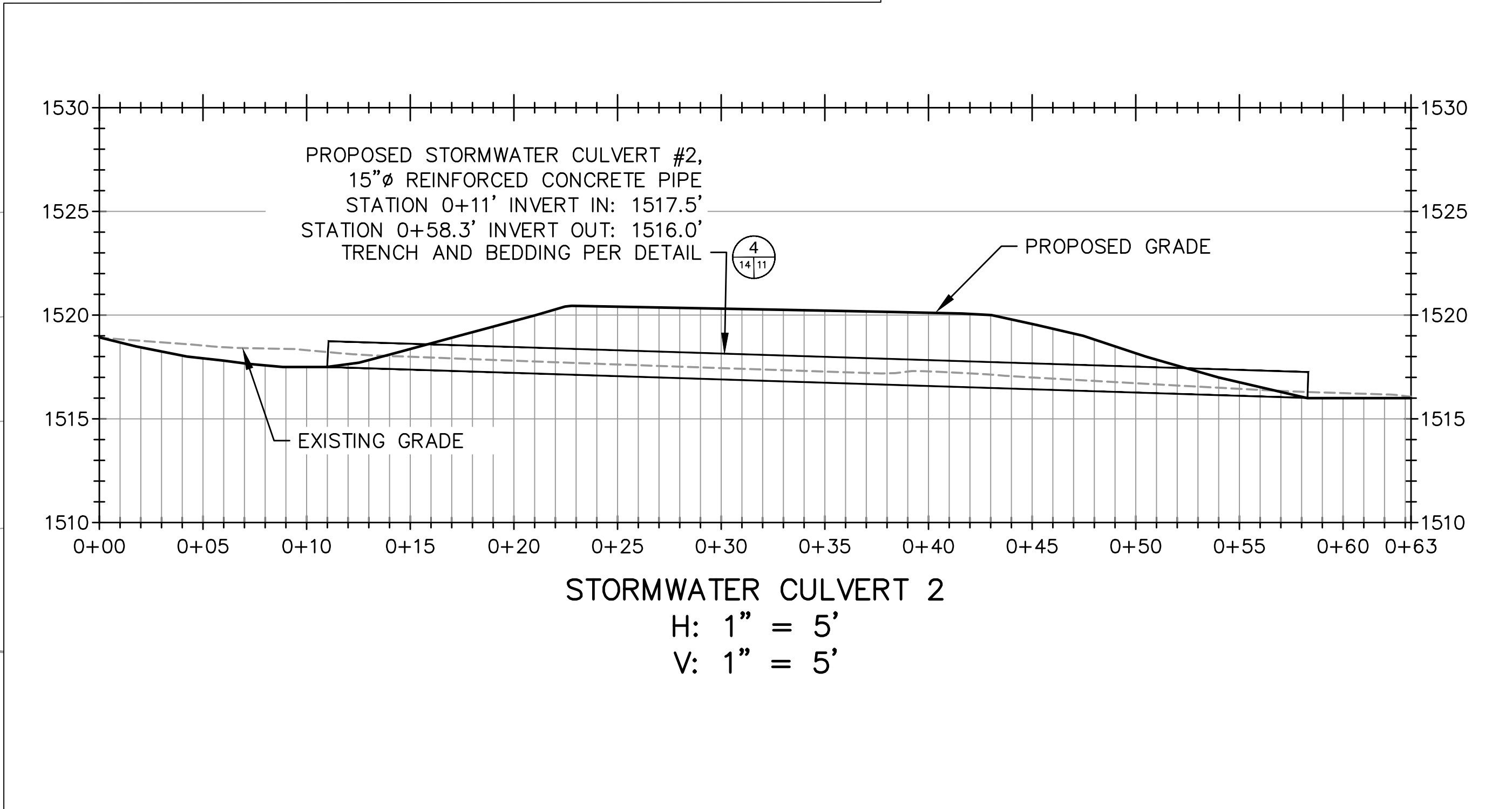


LEGEND

- EXISTING CONTOURS (1' MINOR)
- EXISTING CONTOURS (5' MAJOR)
- - - APPROX. PHASE BOUNDARY
- EDGE OF PROPOSED ROAD
- PROPOSED CONTOUR (1' MINOR)
- PROPOSED CONTOUR (5' MAJOR)
- PROPOSED CULVERT
- CIP CULVERT INLET PROTECTION
- OP OUTLET PROTECTION
- ECM EROSION CONTROL MATTING

NOTES:

- THE EXISTING TOPOGRAPHY DEPICTED AS HALF TONE CONTOURS REPRESENTS TOPOGRAPHY CAPTURED BY NV5, PREVIOUSLY QUANTUM SPATIAL, BY PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY DATED 03-28-2022.
- GRID BASED ON VA NORTH 1983 COORDINATE SYSTEM.
- VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL.
- PROPOSED ACCESS ROAD SURFACE WITH GEOTEXTILE AND VDOT #57 AGGREGATE PER DETAIL
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE REGULATIONS AND BEST PRACTICES WHEN WORKING AROUND OVERHEAD AND UNDERGROUND ELECTRICAL LINES.



COMMONWEALTH OF VIRGINIA
Victoria A. Essex
Lic. No. 062313
7/22/2024
PROFESSIONAL ENGINEER

| | |
|----------|-------------------------|
| DATE | 7/22/24 |
| REVISION | ESC PLAN & OVERALL REV. |
| NO. | 1 |

SHEET TITLE
STORMWATER CULVERT 2

PROJECT TITLE
AUGUSTA REGIONAL LANDFILL
GCCS DESIGN AND EXPANSION

CLIENT
AUGUSTA REGIONAL LANDFILL
749 CHRISTIANS CREEK RD
STAUNTON, VA 24401

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
16521 MIDLOTHIAN TPK - MIDLOTHIAN, VA 23113
PH: (804) 378-7440 FAX: (804) 378-7433

| | |
|------------|-------------|
| PROJ. NO. | 02208015.37 |
| DATE | 5/14/24 |
| SCALE | AS SHOWN |
| DRAWN BY | HGW |
| CHECKED BY | VAE |
| APP. BY | VAE |
| DATE | 5/14/24 |

CADD FILE: 02208015.37

DATE: 5/14/24

SCALE: AS SHOWN

DRAWING NO. 14 of 14

00 52 13 - AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

THIS AGREEMENT is by and
between

Augusta Water (“Owner”) and

_____ (“Contractor”).

Owner and Contractor hereby agree as follows:

ARTICLE 1 – WORK

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

The Project generally consists of (but is not limited to) the construction of an expansion to the Augusta Regional Landfill’s Landfill Gas Collection and Control System (LFGCCS) on the the Solid Waste Permit No. 585 and No. 21 areas **including excavation, grading, stormwater management, erosion & sediment control, landfill gas liquids management infrastructure, gas collection infrastructure, and road construction as outlined in the Contract Documents.**

ARTICLE 2 – THE PROJECT

2.01 *The Project, of which the Work under the Contract Documents is a part, is generally described as follows: **construction of an expansion to the Augusta Regional Landfill’s Landfill Gas Collection and Control System (LFGCCS).***

ARTICLE 3 – ENGINEER

3.01 The Owner has retained SCS Engineers (“Engineer”) to act as Owner’s representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

3.02 The part of the Project that pertains to the Work has been designed by “Engineer”

ARTICLE 4 – CONTRACT TIMES

4.01 *Time of the Essence*

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Contract Times: Days*

A. The Work will be substantially complete within **150** days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **180** days after the date when the Contract Times commence to run.

4.03 *Liquidated Damages*

- A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the times specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):
1. Substantial Completion: Contractor shall pay Owner **\$1000** for each day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 4.02.A above for Substantial Completion until the Work is substantially complete.
 2. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner **\$1000** for each day that expires after such time until the Work is completed and ready for final payment.
 3. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.
- B. If Owner recovers liquidated damages for a delay in completion by Contractor, then such liquidated damages are Owner's sole and exclusive remedy for such delay, and Owner is precluded from recovering any other damages, whether actual, direct, excess, or consequential, for such delay, except for special damages (if any) specified in this Agreement.

4.04 *Special Damages*

- A. Contractor shall reimburse Owner (1) for any fines or penalties imposed on Owner as a direct result of the Contractor's failure to attain Substantial Completion according to the Contract Times, and (2) for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Substantial Completion (as duly adjusted pursuant to the Contract), until the Work is substantially complete.
- B. After Contractor achieves Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times, Contractor shall reimburse Owner for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.02 for Work to be completed and ready for final payment (as duly adjusted pursuant to the Contract), until the Work is completed and ready for final payment.
- C. The special damages imposed in this paragraph are supplemental to any liquidated damages for delayed completion established in this Agreement.

ARTICLE 5 – CONTRACT PRICE

- 5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to adjustment under the Contract:
- A. For all Work, at the prices stated in Contractor's Bid, attached hereto as an exhibit.

ARTICLE 6 – PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

- A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the 25th day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.
 - 1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract
 - a. 95 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
- B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts set off by Owner pursuant to Paragraph 15.01.E of the General Conditions, and less 200 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work, Owner shall pay the remainder of the Contract Price in accordance with Paragraph 15.06 of the General Conditions.

6.04 *Interest*

- A. All amounts not paid when due shall bear interest at the rate of 1 percent per annum.

ARTICLE 7 – CONTRACT DOCUMENTS

7.01 *Contents*

- A. The Contract Documents consist of all of the following:
 - 1. This Agreement.
 - 2. Bonds:
 - a. Performance bond (together with power of attorney).
 - b. Payment bond (together with power of attorney).
 - 3. General Conditions.
 - 4. Supplementary Conditions.
 - 5. Specifications as listed in the table of contents of the project manual.

6. Drawings (not attached but incorporated by reference) consisting of **20** sheets dated *July 22, 2024* with each sheet bearing the following general title: **AUGUSTA REGIONAL LANDFILL – SOLID WASTE PERMITS NO. 21 AND NO. 585 – LANDFILL GAS COLLECTION AND CONTROL SYSTEM EXPANSION.**
7. Addenda

ARTICLE 8 – REPRESENTATIONS, CERTIFICATIONS, AND STIPULATIONS

8.01 Contractor's Representations

- A. In order to induce Owner to enter into this Contract, Contractor makes the following representations:
 1. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.
 2. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Contractor is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Contractor has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
 5. Contractor has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
 6. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (c) Contractor's safety precautions and programs.
 7. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
 8. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
 9. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and of

discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

10. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

8.02 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 8.02:
 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in the Contract execution;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and
 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

8.03 *Standard General Condition*

- A. Owner stipulates that if the General Conditions that are made a part of this Contract are EJCDC® C-700, Standard General Conditions for the Construction Contract (2018), published by the Engineers Joint Contract Documents Committee, and if Owner is the party that has furnished said General Conditions, then Owner has plainly shown all modifications to the standard wording of such published document to the Contractor, through a process such as highlighting or "track changes" (redline/strikeout), or in the Supplementary Conditions.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on _____ (which is the Effective Date of the Contract).

1.

Owner:

Contractor:

(typed or printed name of organization)

(typed or printed name of organization)

By: _____
(individual's signature)

By: _____
(individual's signature)

Date: _____
(date signed)

Date: _____
(date signed)

Name: _____
(typed or printed)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Title: _____
(typed or printed)

(If [Type of Entity] is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____
(individual's signature)

Attest: _____
(individual's signature)

Title: _____
(typed or printed)

Title: _____
(typed or printed)

Address for giving notices:

Address for giving notices:

Designated Representative:

Designated Representative:

Name: _____
(typed or printed)

Name: _____
(typed or printed)

Title: _____
(typed or printed)

Title: _____
(typed or printed)

Address:

Address:

Phone: _____

Phone: _____

Email: _____

Email: _____

(If [Type of Entity] is a corporation, attach evidence of authority to sign. If [Type of Entity] is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)

License No.: _____
(where applicable)

State: _____

END OF DOCUMENT 00 52 13

SECTION 00 41 13

BID FORM

1.0 OWNER AND BIDDER

1.1 OWNER

This Bid is submitted to: Augusta Water, 18 Government Center Lane, Verona, VA 24482

1.2 AGREEMENT

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

2.0 ATTACHMENTS TO THIS BID

The following documents are submitted with and made a condition of this Bid:

- Required Bid security;
- List of Proposed Subcontractors;
- List of Proposed Suppliers;
- Evidence of authority to do business in the state of the Project;
- Contractor's license number as evidence of Bidder's State Contractor's License; and
- Required Bidder Qualification Statement with supporting data.

3.0 BASIS OF BID—LUMP SUM BID

3.1 LUMP SUM BIDS

Bidders should submit prices for the Augusta Regional Landfill – LFGCCS Expansion. The prices for the SWP#585 LFGCCS Expansion and the SWP#21 LFGCCS expansion will be tabulated separately. Bids will be evaluated on the lowest total price for both categories. Payment applications will be submitted separately for each category and the Augusta County Service Authority may elect to make separate payments for each category.

3.1.1 Lump Sum Price – SWP No. 585 LFGCCS Expansion

| # | Description | Price |
|--|---|-------|
| 1 | Lump Sum Bid Price for Mobilization/Demobilization | \$ |
| 2 | Lump Sum Bid Price for Erosion and Sediment Control | \$ |
| 3 | Lump Sum Bid Price for Landfill Gas, Air, and Force Main Pipe; Materials and Installation | \$ |
| 4 | Lump Sum Bid Price for Landfill Gas Extraction Wells, Components, and Wellfield Controls | \$ |
| 5 | Lump Sum Bid Price for Seeding and Restoration | \$ |
| SWP No. 585 LFGCCS Expansion Subtotal Price (Total of all SWP No. 585 LFGCCS Lump Sum Price Bid Items) | | \$ |

3.1.2 Lump Sum Price – SWP No. 21 LFGCCS Expansion

| # | Description | Price |
|--|---|-------|
| 6 | Lump Sum Bid Price for Mobilization/Demobilization | \$ |
| 7 | Lump Sum Bid Price for Erosion and Sediment Control | \$ |
| 8 | Lump Sum Bid Price for Clearing and Grubbing | \$ |
| 9 | Lump Sum Bid Price for Landfill Gas, Air, and Force Main Pipe; Materials and Installation | \$ |
| 10 | Lump Sum Bid Price for Landfill Gas Extraction Components and Wellfield Controls | \$ |
| 11 | Lump Sum Bid Price for Wellfield Dewatering System Infrastructure | \$ |
| 12 | Lump Sum Bid Price for Access Roads and Stormwater Infrastructure | \$ |
| 13 | Lump Sum Bid Price for Seeding and Restoration | \$ |
| SWP No. 21 LFGCCS Expansion Subtotal Price (Total of all SWP No. 21 LFGCCS Lump Sum Price Bid Items) | | \$ |

3.1.3 Total Bid Price

| | |
|---|----|
| Total Bid Price (Total of all Lump Sum Price Bid Items) | \$ |
|---|----|

4.0 TIME OF COMPLETION

4.1 TIME OF THE ESSENCE

Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

4.2 CONTRACT TIMES

Bidder agrees that the work will be substantially complete within 150 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 180 calendar days after the date when the Contract Times commence to run.

4.3 LIQUIDATED DAMAGES

Bidder accepts the provisions of the Agreement as to liquidated damages.

5.0 BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.1 BID ACCEPTANCE PERIOD

This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.2 INSTRUCTIONS TO BIDDERS

Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.3 RECEIPT OF ADDENDA

Bidder hereby acknowledges receipt of the following Addenda:

| Addendum Number | Addendum Date |
|-----------------|---------------|
| 1 | July 16, 2024 |
| 2 | July 22, 2024 |
| | |
| | |
| | |

6.0 BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

6.1 BIDDER'S REPRESENTATIONS

6.1.1 Bid Submission

In submitting this Bid, Bidder represents the following:

6.1.1.1 Bidding Documents

Bidder has examined and carefully studied the Bidding Documents, including Addenda.

6.1.1.2 Site Visit

Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

6.1.1.3 Laws and Regulations

Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.

6.1.1.4 Background Information

Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

6.1.1.5 Environmental Hazards

Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6.1.1.6 Supplementary Information

Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.

6.1.1.7 Investigations

Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

6.1.1.8 Nature of Work

Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

6.1.1.9 Errors and Conflicts

Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

6.1.1.10 Bidding Documents

The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

6.1.1.11 Performance of Work

The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.2 BIDDER'S CERTIFICATIONS

6.2.1 Certification

The Bidder certifies the following:

6.2.1.1 Genuine Bid

This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

6.2.1.2 Influence of Bids

Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

6.2.1.3 Exclusion of Bids

Bidder has not solicited or induced any individual or entity to refrain from bidding.

6.2.1.4 Corruption and Fraud

Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 6.2.1.4:

6.2.1.4.1 Corrupt

Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.

6.2.1.4.2 Fraudulent

Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

6.2.1.4.3 Collusive

Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.

6.2.1.4.4 Coercive

Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

6.2.1.5 Debarment

By submitting a proposal the Bidder certifies neither it (nor he or she) nor any person or firm which has an interest in the Bidder's firm is disbarred or suspended from bidding or working on a state or federally funded project. No part of this contract will be subcontracted to any person or firm who has been debarred or suspended from bidding or working on a state or federally funded project.

6.2.1.6 Anti-Discrimination

By submitting their proposals, all Bidders certify to OWNER that they will conform to the provisions of the Presidential Order #11246, the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Act of 1975, as amended, where applicable, and Section 2.2-4311 of the Virginia Public Procurement Act and that during the performance of this contract, the Bidder agrees as follows:

6.2.1.6.1 Employees

The Bidder will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by the state law relating to discrimination in employment, except when there is bona fide occupational qualification reasonably necessary to the normal operation of the Bidder. The Bidder agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

6.2.1.6.2 Notices

Notices, advertisements and solicitations placed by or on behalf of the Bidder will state that such contractor is an equal opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

6.2.1.6.3 Subcontracts and Purchase Orders

The Bidder will include the provisions of the foregoing paragraphs in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

6.2.1.6.4 Faith Based Organizations

In accordance with the Personal Responsibility and Work Opportunity Reconciliation Act of 1996, P.L. 104-193, the OWNER will not discriminate against faith-based organizations. The bidder also agrees to abide by § 2.2-4343.1 of the Virginia Public Procurement Act.

Bidder:

(typed or printed name of organization)

By:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

Address for giving notices:

Bidder's Contact:

Name:

(typed or printed)

Title:

(typed or printed)

Phone:

Email:

Address:

Bidder's Contractor License No.: (if applicable)

Does bidder wish to utilize Escrow Option?

Yes

No

END OF SECTION 00 41 13

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