

February 07, 2025

**ADDENDUM NO. 3
TO THE
CONTRACT DOCUMENTS
FOR
CUMBERLAND COUNTY TRANSFER STATION**

To All Plan Holders:

The following revisions, additions and clarifications are hereby made part of the Contract Documents for the above-referenced project and shall be taken into account in the preparation of all Bids and the execution of all work. Bidders shall acknowledge receipt of the Addendum in the appropriate space on the Proposal Form. Failure to do so may result in your Bid being considered non-responsive.

I. ATTACHMENTS

- AD3-1. Revised Site Civil Drawings
- AD3-2. Revised Bid Form

II. QUESTIONS AND ANSWERS

Questions are provided below in *italics* followed by S+G's response in **bold**.

- AD3-3. *Please I don't see where it is possible, with the Deflector Framing, but do you believe we could use X bracing in the front and back sidewall on the PEMB?*

The deflector plate framing does not extend along the entire length of the building. X bracing should be able to be placed in a bay that does not have deflector plate framing.

- AD3-4. *General Specifications section 01400 B. Testing Laboratory Services states the Contractor is responsible for the cost of the laboratory testing required by the specs. This is typically paid for by the owner and accomplished through third party inspections. Please confirm this is the responsibility of the contractor or the owner.*

The Contractor shall pay for laboratory testing required by the specifications as part of required Construction Quality Control (CQC) Testing. The Owner will pay for and provide all laboratory testing as required by the specifications as part of required Construction Quality Assurance (CQA).

- AD3-5. *Section 01400 A1.a references a Project CQA Manual that the Contractor is to follow. This manual is not included in the project documents. Please provide if this is applicable.*

No Project CQA Manual is included with this project. All CQC/CQA requirements are stipulated by the Project Specifications and other Contract Documents.

- AD3-6. *Please advise where pricing for doors/frames and the painting scope should be included on the bid form.*

Bid Item 20, Pre-Engineered Metal Building.

- AD3-7. *Section 01700 B. describes providing spare parts/special tools for "equipment listed". Please confirm if this section is applicable and what equipment would have these requirements.*

This Section applies to any mechanical equipment supplied for the project that would require special tooling or comes with spare parts from the manufacturer. This may include, but not be limited to, pumps, valves, scales, fans, fire suppression equipment. If no special tooling or spare parts are supplied or required, this section will not apply.

- AD3-8. *The existing conditions S1 drawing indicates some additional topo lines at the proposed transfer station site location that are not defined – please confirm these topo elevations. Also, please confirm the topo elevation of the existing leachate pond/skimmer basin.*

Additional topo line has been removed. Topographic information depicted on the pad is existing as of 12-12-24. Contractors to assume the existing sediment pond (not leachate pond)/ skimmer basin is in accordance with proposed elevations as indicated.

- AD3-9. *In detail 1/S203 (Attached), shows a tube steel member at 22'-8" AFF along the REW. In this detail is calls out for the Metal Building Manufacture to design girt for the reactions from the deflector plate. Are we to supply the tube member in this area or just design our columns to accept the attachment of this member by others? I ask this question since all the other tube members have been sizes and calls for them to only attach to the PEMB and are to be supplied by others (Misc. Steel provider).*

The Building Girt in Section 1/S203 (shown as a steel tube) shall be provided by the building supplier. This could be a Tube or Wide Flange section.

- AD3-10. *Please advise where the miscellaneous steel, joint sealants, and general requirements pricing should be added on the bid form schedule.*

Pricing for these items shall be included in Item 19 – Pre Engineered Metal building.

- AD3-11. *Detail 1/S203 depicts a tube steel member, but does not define its size; moreover, next to it has a kip loading and for the "PEMB Manuf. to design the girt for the following reaction". Please confirm the tube steel depicted within the CL on 1/S203 is to be already sized as HSS8x8x3/8 and the PEMB manuf is to use this loading to size the columns, not girts.*

The Building Girt in Section 1/S203 (shown as a steel tube) shall be provided by the building supplier. This could be a Tube or Wide Flange section.

- AD3-12. *The embed detail at 1/S202 at the 18" concrete wall is not currently able to be constructed as drawn without providing holes in the top of the plate to place the concrete (several inches for pump shoot). Please confirm these holes are acceptable. If not, please confirm if this embed plate can be modified to be multiple pieces and either wet set (could only be the top plate, left side would be eliminated) or countersunk attached after the pour. Also, please confirm if approx. 1/2" dia holes in the vertical plates are also acceptable as they are needed for the ties to attach formwork on each side. If not, additional field welding to support this plate is required since it is acting as the form.*

It is acceptable to wet set the top plate. Provide the side plates as part of the forms. After setting the top plate, weld to the side plates with continuous welds.

- AD3-13. *Currently there are no PEMB columns shown at the riser room, but it appears this is to be a lean to PEMB. Since this building is already needing metal stud framing at the adjacent wall, please confirm if this room can be completely framed out of metal studs and the exterior shell envelope to still match the adjacent PEMB.*

Per the cover sheet note, notes on detail 2/A601, column grid on sheet A101, the design intention is for the riser room to be a PEMB lean-to structure. Drawings are preliminary and will be finalized once PEMB signed/sealed shop drawings are submitted.

- AD3-14. *The PEMB spec on AS101 calls for a 5 year warranty; however, standard warranties are 1 year. Please confirm if 5 is required.*

A 1 year warranty is allowable.

- AD3-15. *Please confirm it is acceptable to just tapcon the PEMB siding to the concrete curb at the 3' extension pieces at the east and west sizes. Otherwise, additional steel is required to make this attachment and the girts will not be flush with the building column flanges.*

Connection of the PEMB siding to the concrete curb utilizing "tapcon" style connectors is allowable.

AD3-16. *The bid form states (#12) PVC roof drain pricing to be broken out. The civil drawings only call for 8" PVC Leachate drains that tie into the sand/oil separator, but this is shown as a separate line item. There are roof downspouts on the architectural elevation plans and a PVC foundation drain on S204; however, the civil plan does not show these tying in on the exterior. Please advise.*

Downspout roof leader piping has been added to the Utility Plan, Sheet 7, Drawing S6, attached. Piping to be 12" diameter PVC set at a minimum grade of 0.5%. Contractor to coordinate with other site utilities as required.

AD3-17. *S203 shows the trench drain detail - detail 2 shows the drain up above the scale pit; however, detail 3 indicates the trench rain is to be below the scale pit top of concrete. Please advise. Also these trench drains are not shown on the plumbing plans, just the connections. Lastly, the east elevation shows this work to be by the plumber ;however, there is a note on the west elevation that this is to be by others. It is our understanding the plumbing contractor is to perform the trench drain, connection work and stub out 5' outside of the building - please confirm.*

There is no prefabricated trench drain. There is a cast in place concrete trench with a cover as shown by Detail 3. The 8" PVC leachate drains connect to the end of this trench. This trench work should be included in the concrete work in the loading pits. The General Contractor is responsible for all of this work, including the concrete and the leachate removal system.

AD3-18. *Addendum #1 references electrical requirements with the electrostatic pit scales and cites section 16050, which is only the general electrical requirements, and there are no actual descriptions of the pit requirements. Please provide a detail and/or spec to indicate what is required of the pit scales, location (i.e. are these the locations shown to the left and right of the center?) and what circuit/panel to be used if different from what is shown.*

The Contractor will coordinate with the selected Scale vendor regarding electrical requirements for the pit scales and required digital displays.

AD3-19. *The Civil Drawings mentions the 3 phase power from pole is "by others" on Dwg S3; however Dwg S6 states "Contractor to provide conduit". There are no electrical site plans, so please confirm this scope is Not in Contract (NIC), including the raceways themselves. If so, please confirm the connection point where the work NIC stops and we are to continue (and any additional details needs for tie in/continuation). Please advise what size and quantity of*

raceways are required to be provided for PWC for primary power. If power is to be in contract, please provide additional information.

The Contractor is to assume, for purposes of the bid, that the power provider, Fayetteville PWC, will set a transformer adjacent to the building. The Contractor is to install a conduit from the power pole indicated on Sheet 7, Drawing S6 to the electrical panel location on the proposed building. The Contractor is to coordinate the conduit size with PWC. Further, in the event the PWC will not bring the power to the building, the Contractor will supply a cost per foot of the four (4) #2/0 cables required for the building. A line item has been added to the Bid Form as a Supply Additional cost for this item.

- AD3-20. *There is a backflow preventor shown on P101, but is not reflected on the S6 civil drawing. Typically a plumber will only provide work within 5' outside of the building. Please advise where this is located on plan to define the scope. Also, the electrician will need to understand this information for the underground electrical power.*

See revised Sheet 7, Drawing S6 for location of backflow preventor. Contractor to supply in a PWC approved hot box.

- AD3-21. *Please provide proposed grades/contours for the trailer parking area. Drawing S2 and S4 where this parking lot is shown does not provide this information.*

Grading has been added. See attached revised civil drawings.

- AD3-22.

Please clarify the limit of disturbance as the Drawing S3 shows one line around the transfer station and another is around the existing sediment basin. Is any site work required in the sediment basin area to include temp silt fence, drainage channels, etc.? Please advise.

The limit of disturbance has been revised. See attached revised civil drawings.

- AD3-23. *Please confirm if there is a hydrant back on the access road/near site that is available and approved to be used for loading bulk water trucks for earthwork activities. If acceptable, please confirm the usage cost responsibility for this as well.*

There is a hydrant near the transfer station site used by the landfill to load their water truck. The Contractor may use this hydrant with no charge. The landfill has priority.

AD3-24. *Drawing E201 item 5 states 1 1/4" conduit; however, the minimum code for that wire size and quantity is 2" per 2020 NEC.*

The conduit shall be 2"

AD3-25. *Drawing E201 "notes" item 3 indicates the furthest distance the utility transformer can be from the fire pump is 350' using the (4) #1 conductors due to voltage drop. On Drawing S6, the utility pad location is approximately 450' using the routing shown. Please confirm if the wire size should increase or will the utility transformer be moved closer.*

If the transformer is 450-ft away, the conductors will need to be (4) #2/0 to stay compliant with NEC 695.7(A).

AD3-26. *The structural plans show the lift walls to be elevation 110' from CL C.5 to the South wall on both the east and west sides; furthermore, elevation 105' north of CL C.5 on both the east and west sides. The architectural plans reflect this on the east; however, there is a conflicting written note on the west (just under CL B) that this part of the wall is supposed to jump back up to 10'? Please advise and confirm structural plans are to be followed.*

Contractor shall use the structural drawings for top of wall elevations, The note on sheet A101 can be deleted.

AD3-27. *Structural and architectural plans show the outside curb being 36" tall along with the structural cut section 1/S202; however, arch section 1/A602 mentions a 24" tall curb. Please advise.*

The curb is to be 36" tall in accordance with the structural sections.

AD3-28. *The riser room elevation SOB is at elevation 92'; however, the top of concrete wall is at 95'. Currently there is no opening shown on plan on the arch A101 nor the structural S102 to access this space. Please confirm there should be and if so, where.*

The riser room is accessible by an exterior personnel door. See Floor Plan A101, 2/A500, and Building Elevation 1/A501.

AD3-29. *A301 shows 4 exit signs along the north elevation and none at the east/west; however, E101 shows 2 at the north elevation and 2 at east/west. Please advise exit signs quantities and locations.*

There are a total of 6 exit sign locations. Four (4) at the front as shown on A301, and one (1) at each door from the loading pit as shown on E101.

AD3-30. *Does the Build America Buy America (BABA) Act apply to the Project?*

No, the BABA Act does not apply.

AD3-31. *Please confirm if the Project is receiving any funding assistance (State, Federal or otherwise) that would subject the Project to compliance with AIS or Davis-Bacon and Related Acts (DBRA). We do not see any requirements for AIS compliance or Davis-Bacon Wage Determinations listed in the Contract Documents.*

The project is receiving no funding assistance. Therefore, there is no requirement for AIS compliance or Davis-Bacon Wage Determination.

AD3-32. *Regarding the 'Qualifications of Bidders' referenced in the Instructions To Bidders ("ITB") Article 2.0: can the requested contractor qualification documentation be submitted post-bid? Specifically, a compilation of qualification data including items 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10, 2.11 could all be provided post-bid on EJCDC Form C-451 or similar if acceptable?*

The General Contractor qualifications must be submitted with the bid. Subcontractor qualifications may be submitted post bid. EJCDC forms are acceptable.

AD3-33. *Further to the RFI clarifying the 'Qualifications of Bidders': there are no specific forms or templates provided for the 'Qualifications of Bidders' requested to be submitted with the Bid per ITB 10.3-1.c. Can this documentation be provided on a form equal to EJCDC C-451? Can it be submitted post-bid?*

The General Contractor qualifications must be submitted with the bid. Subcontractor qualifications may be submitted post bid. EJCDC forms are acceptable.

AD3-34. *Please confirm the basis of the award for this project will be in accordance with ITB Article 14.3, and that award will be made to the lowest responsible, responsive Bidder. Accordingly, please remove Item 2.12 from the Instructions To Bidders which indicates "Favorable consideration will be given to the Bidder who can demonstrate and commit to a more expeditious schedule and earlier completion date."*

Item 2.12 from the Instructions to Bidders will NOT be removed.

AD3-35. *Please clarify the limits for the proposed aggregate paving. Drawings S3, S4 and S5 do not specifically depict limits of aggregate paving. The gray shaded areas appear to represent Flood Zone AE.*

See revised Drawings.

AD3-36. *Contract Times: the Agreement indicates the project shall be fully complete within 180 consecutive calendar days from the commencement dates specified in the Notice to Proceed. Please change this to 365 consecutive calendar days. Based on lead times for pumps, control panels, Pre Engineered Metal Building systems, etc. the 180-days of Contract Time noted in the Agreement needs to be increased to more realistically align with the probable duration for procurement, submittal approvals, fabrication, delivery and ultimately construction of this project.*

The County will negotiate with the successful bidder regarding contract times once actual lead times are known.

AD3-37.

Please clarify if the Bid hold period is 60 days or 90 days. There appears to be conflicting information in the documents. ITB Section 6.0 indicates 60 days, whereas ITB Sections 13.0 and 14.4 indicate Bids shall remain open for up to ninety (90) days before the Notice of Award will be issued.

The bid hold period is 90 days. Instructions to Bidders, Section 6.0 Bid Security has been revised as follows:

Each Bid must be accompanied by a Bid Security which shall be an amount equal to five (5%) percent of the Bid amount. The required Bid Security must be in the form of a certified check on some bank or trust company insured by the Federal Deposit Insurance Corporation and made payable to Owner, or a Bid Bond issued by a surety licensed to conduct business in North Carolina. The Bid Security of the successful Bidder will be retained until they have executed the Contract and furnished the required Contract Security, whereupon it will be returned. If the successful Bidder fails to execute and deliver the Contract and furnish the required Contract Security within fifteen (15) calendar days of the Notice to Award, the Owner may annul the Notice of Award and the Bid Security of the Bidder will be forfeited. The Bid Security of any other Bidder whom Owner believes to have a reasonable chance of receiving the Award may be retained by Owner until the earlier of (1) the seventh day after the executed Contract is delivered by the Owner to the Contractor and the required Contract Security is furnished, or (2) the ninety-first day after Bid opening. The Bid Security of other Bidders will be returned within fourteen (14) calendar days of the Bid opening.

AD3-38. *Regarding ITB Section 8.0: are there any specific Subcontractors that the Owner or Engineer object to using for this project in which they would request the apparent low Bidder to submit an acceptable substitute for?*

There are none at this time.


AD3-39. Please confirm there is no 'Pay Item Number' 10 on the Bid Form. This row is missing from Table A1 'Base Bid Schedule - Transfer Station' on the Bid Form.

A revised Bid Form is attached.

END OF ADDENDUM

Submitted by,

SMITH GARDNER, INC.

DocuSigned by:

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John D. Barnard, P.E.

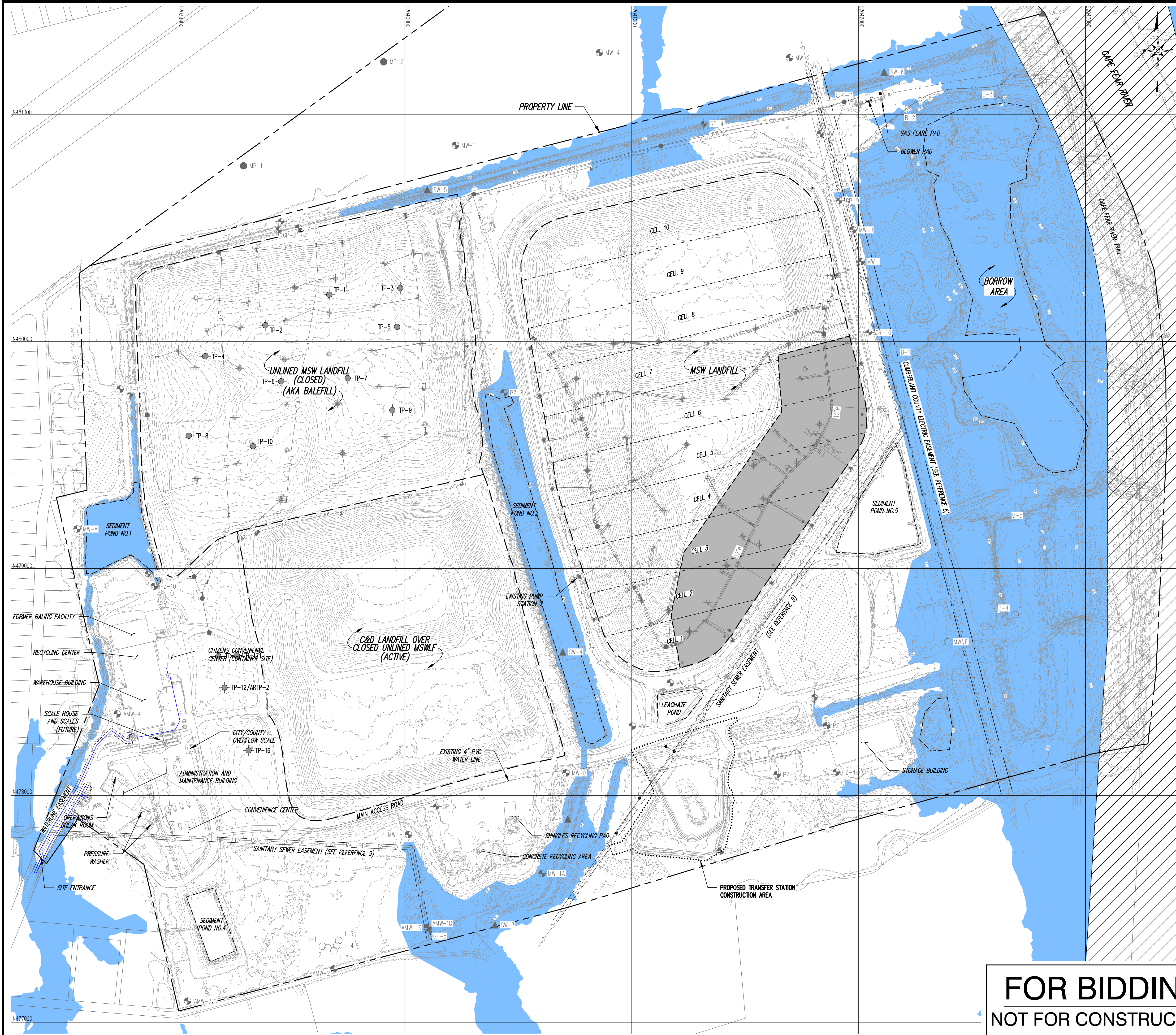
Senior Engineer

johnb@smithgardnerinc.com

Attachments Revised Site Drawings
Revised Bid Form

Cc: Plan Holders
Amanda Lee
Johnny Scott
File

H:\Projects\Cumberland County (NC)\CUMBERLAND-23-6 (Transfer Station Permitting)\Bid Documents\Addenda\Addendum 3\Cumberland Transfer Station Construction Addendum No. 3.docx



- LEGEND**
- EXISTING CONTOUR (SEE REFERENCE 1)
 - - - PROPERTY LINE (SEE REFERENCE 2)
 - - - STREAM (APPROXIMATE)
 - - - APPROXIMATE EXISTING WASTE LIMITS
 - - - LIMIT OF FUTURE WASTE PLACEMENT
 - LIMITS OF DISTURBANCE
 - EXISTING SEWER LINE
 - EXISTING LEACHATE LINE
 - EXISTING LANDFILL GAS LINE (SEE REFERENCE 5)
 - EXISTING COMPRESSED AIR LINE
 - EXISTING CONDENSATE LINE
 - EXISTING COMPRESSED AIR AND CONDENSATE LINE
 - EXISTING FORCEMAIN
 - EXISTING WATER SERVICE (SEE REFERENCE 11)
 - EXISTING SANITARY SERVICE (SEE REFERENCE 11)
 - FINAL COVER LIMITS (SEE REFERENCE 11)
 - FLOOD ZONE AE (SEE REFERENCE 9)
 - FLOODWAY (SEE REFERENCE 9)
 - WETLANDS (SEE REFERENCE 8)
 - EW-720 LFG EXTRACTION WELL (SEE REFERENCE 5)
 - CW-1 LFG CAP WELL (SEE REFERENCE 5)
 - LC05E LEACHATE CLEANOUT (SEE REFERENCE 5)
 - TP-1 TEST PIT (SEE REFERENCE 4)
 - GP-1 GAS MONITORING PROBE (SEE REFERENCE 4)
 - MW-1 MONITORING WELL (SEE REFERENCE 4)
 - I-1 INJECTION WELL (SEE REFERENCE 5)
 - SW-1 STORMWATER MONITORING POINT (SEE REFERENCE 4)
 - CS-1 CONDENSATE SUMP (SEE REFERENCE 5)
 - CK-1 CONDENSATE KNOCKOUT (SEE REFERENCE 5)
 - EXISTING LEACHATE COLLECTION PIPE CLEANOUT

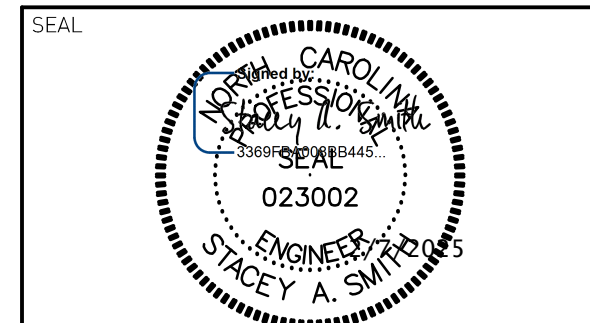
- REFERENCES**
1. SITE TOPOGRAPHY DATED JANUARY 7, 2021 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY IN ACTIVE AREAS PREFROMED ON DEC. 6, 2022, BY SMITH GARDNER, INC.
 2. PERIMETER BOUNDARY INFORMATION DATED MAY 26, 2022 BY JOYNER KEENEY, FAYETTEVILLE, NC.
 3. LANDFILL GAS WELL LOCATION PROVIDED BY SCS ENGINEERS, PC, DRAWING TITLED "ANN STREET C&D LANDFILL FACILITY PLAN".
 4. TEST PIT LOCATIONS PROVIDED BY SCS ENGINEERS, P.C. DRAWING TITLED TEST PIT SITE PLAN.
 5. EXISTING LANDFILL GAS SYSTEM LOCATIONS DIGITIZED BASED ON "AS-BUILT EXISTING CONDITIONS" DATED SEPTEMBER 2019, "AS-BUILT SITE PLAN" DATED APRIL 2020; PREPARED BY SCS ENGINEERS, WITH SUPPLEMENTS FROM CAD DRAWING TITLED 2021-11-08 BLOWER AND FLARE PAD AS-BUILT MAP; PREPARED BY FEI CIVIL ENGINEERS AND LAND SURVEYORS; DATED OCT. 11, 2021.
 6. MCMAEE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY SURVEYING SOLUTIONS OF YOUNGSVILLE, NC; DATED JUNE 21, 2022.
 7. SANITARY SEWER EASEMENT AND CUMBERLAND COUNTY UTILITY EASEMENT DIGITIZED FROM DRAWING TITLED "CAMPBELL COMPANY 20" SANITARY SEWER EASMT", PROVIDED BY THE CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION, DATED 4/7/1971.
 8. WETLAND LOCATIONS PROVIDED BY 4D SOLUTIONS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDFILL", DATED APRIL 13, 2020.
 9. FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 3720044700K, DATED 06/18/07.
 10. FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.
 11. WATER MAIN AND SANITARY SEWER LINE DIGITIZED FROM TERRADYNE ENERGY SYSTEMS DRAWING TITLE "WATER & SEWER LAYOUT CUMBERLAND COUNTY LANDFILL - ANN ST. SITE", DATED NOV. 29, 1991.
 12. PREVIOUSLY APPROVED LIMITS OF DISTURBANCE DIGITIZED FROM DRAWING TITLED "SITE DEVELOPMENT PLAN"; PROVIDED BY CDM SMITH, DATED 2/13/17.

PREPARED FOR:

PREPARED BY: NC LIC. NO. F-1070 (ENGINEERING)
SC COA NO. C01488

SMITH+GARDNER ENGINEERS

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REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3

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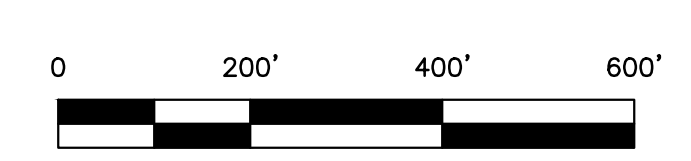
ANN STREET LANDFILL SOLID WASTE TRANSFER STATION TRANSFER STATION

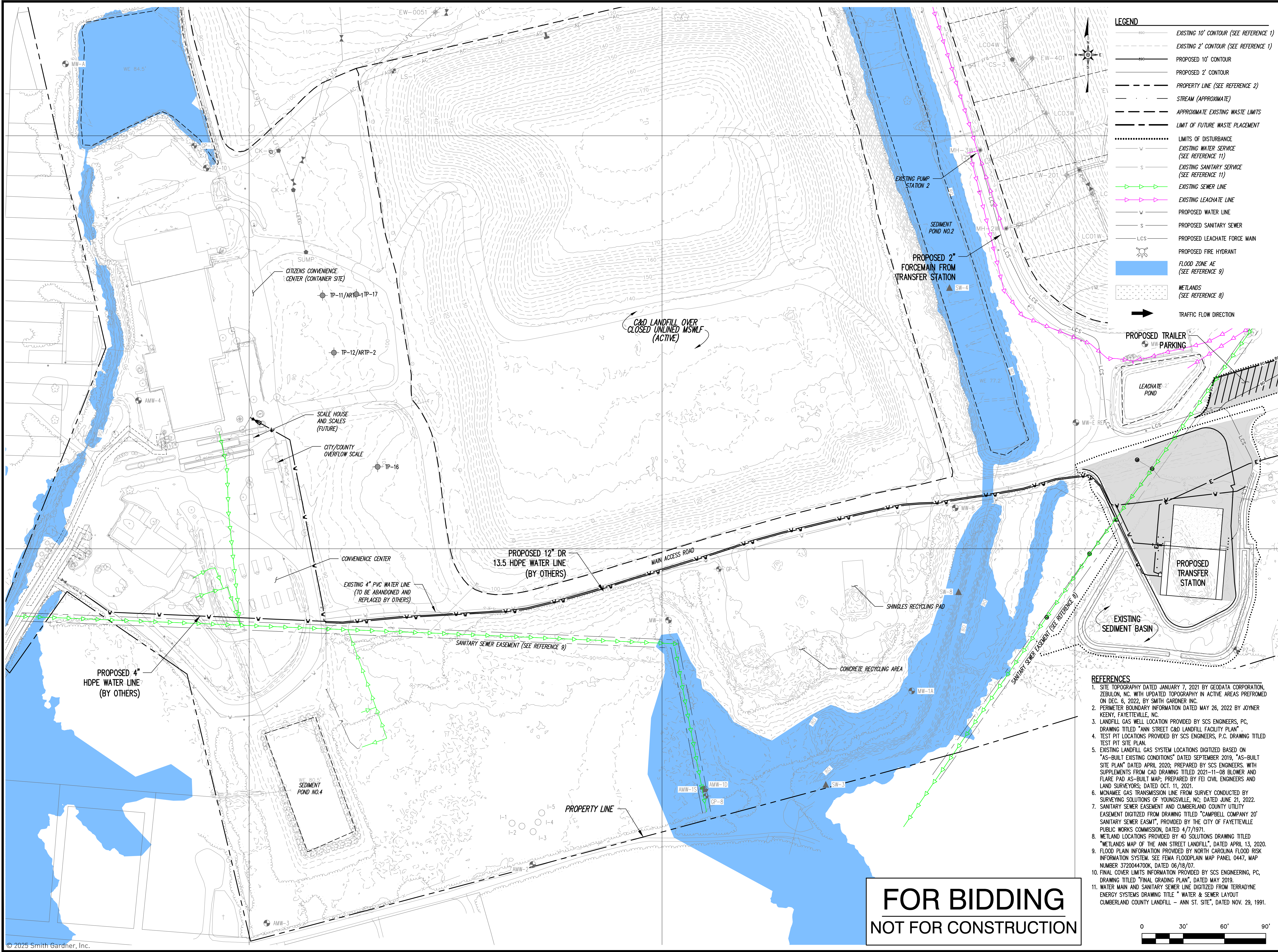
DRAWING TITLE:

EXISTING CONDITIONS

DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0262	
SHEET NUMBER: 2	DRAWING NUMBER: S1

FOR BIDDING
NOT FOR CONSTRUCTION





LEGEND

- EXISTING 10' CONTOUR (SEE REFERENCE 1)
- EXISTING 2' CONTOUR (SEE REFERENCE 1)
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- - - PROPERTY LINE (SEE REFERENCE 2)
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- EXISTING SEWER LINE
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- W PROPOSED WATER LINE
- S PROPOSED SANITARY SEWER
- LCS PROPOSED LEACHATE FORCE MAIN
- PROPOSED FIRE HYDRANT
- FLOOD ZONE AE (SEE REFERENCE 9)
- WETLANDS (SEE REFERENCE 8)
- TRAFFIC FLOW DIRECTION

PREPARED FOR:

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

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SEAL

SEAL

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1	2/6/25	ADDENDUM 3

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PROJECT TITLE:

ANN STREET LANDFILL SOLID WASTE TRANSFER STATION TRANSFER STATION

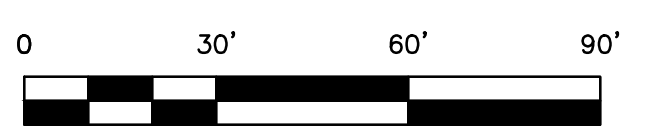
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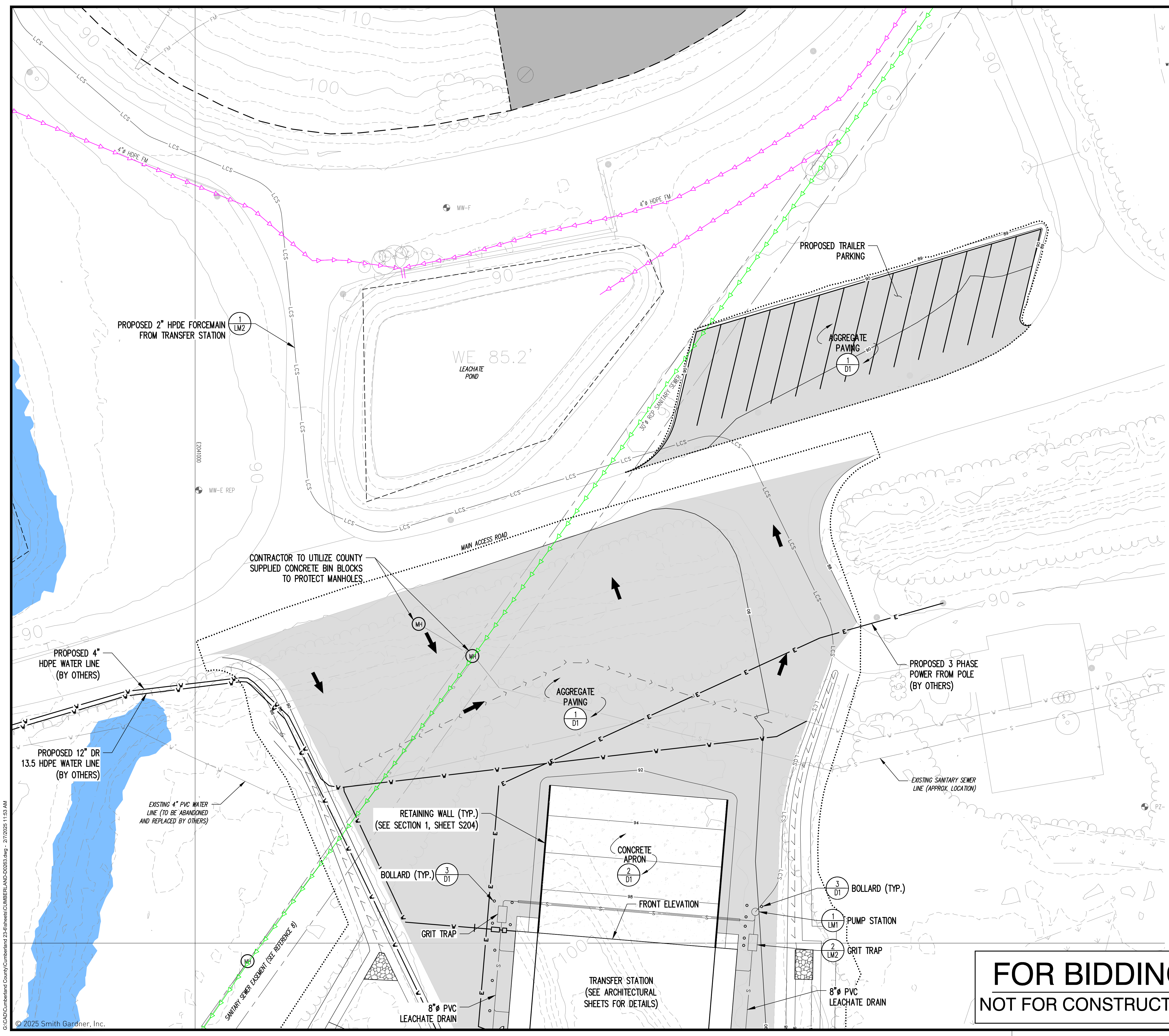
OVERALL SITE PLAN

DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0263	DRAWING NUMBER:
3	S2

- REFERENCES**
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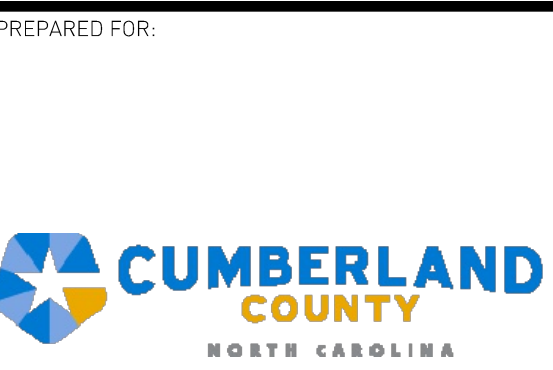
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NOT FOR CONSTRUCTION**





LEGEND

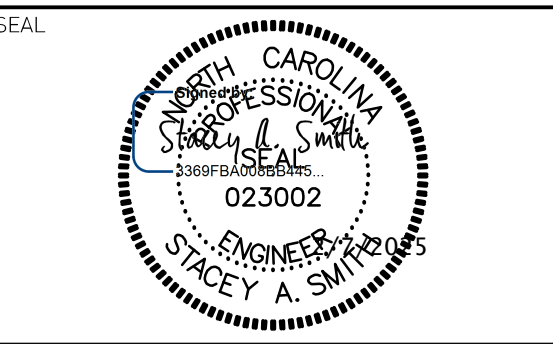
- 100 — EXISTING 10' CONTOUR (SEE REFERENCE 1)
- 90 — EXISTING 2' CONTOUR (SEE REFERENCE 1)
- 90 — PROPOSED 10' CONTOUR
- 90 — PROPOSED 2' CONTOUR
- - - - - PROPERTY LINE (SEE REFERENCE 2)
- - - - - STREAM (APPROXIMATE)
- - - - - APPROXIMATE EXISTING WASTE LIMITS
- - - - - LIMIT OF FUTURE WASTE PLACEMENT
- LIMITS OF DISTURBANCE
- W EXISTING WATER SERVICE (SEE REFERENCE 11)
- S EXISTING SANITARY SERVICE (SEE REFERENCE 11)
- EXISTING SEWER LINE
- EXISTING LEACHATE LINE
- W PROPOSED WATER LINE
- S PROPOSED SANITARY SEWER
- LCS PROPOSED LEACHATE FORCE MAIN
- PROPOSED FIRE HYDRANT
- FLOOD ZONE AE (SEE REFERENCE 9)
- WETLANDS (SEE REFERENCE 8)
- TRAFFIC FLOW DIRECTION



PREPARED FOR: NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

SMITH+GARDNER ENGINEERS

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3

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PROJECT TITLE:

ANN STREET LANDFILL SOLID WASTE TRANSFER STATION

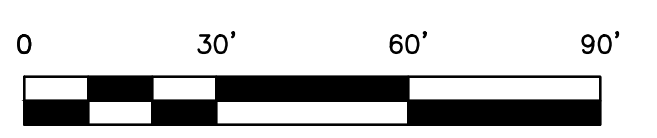
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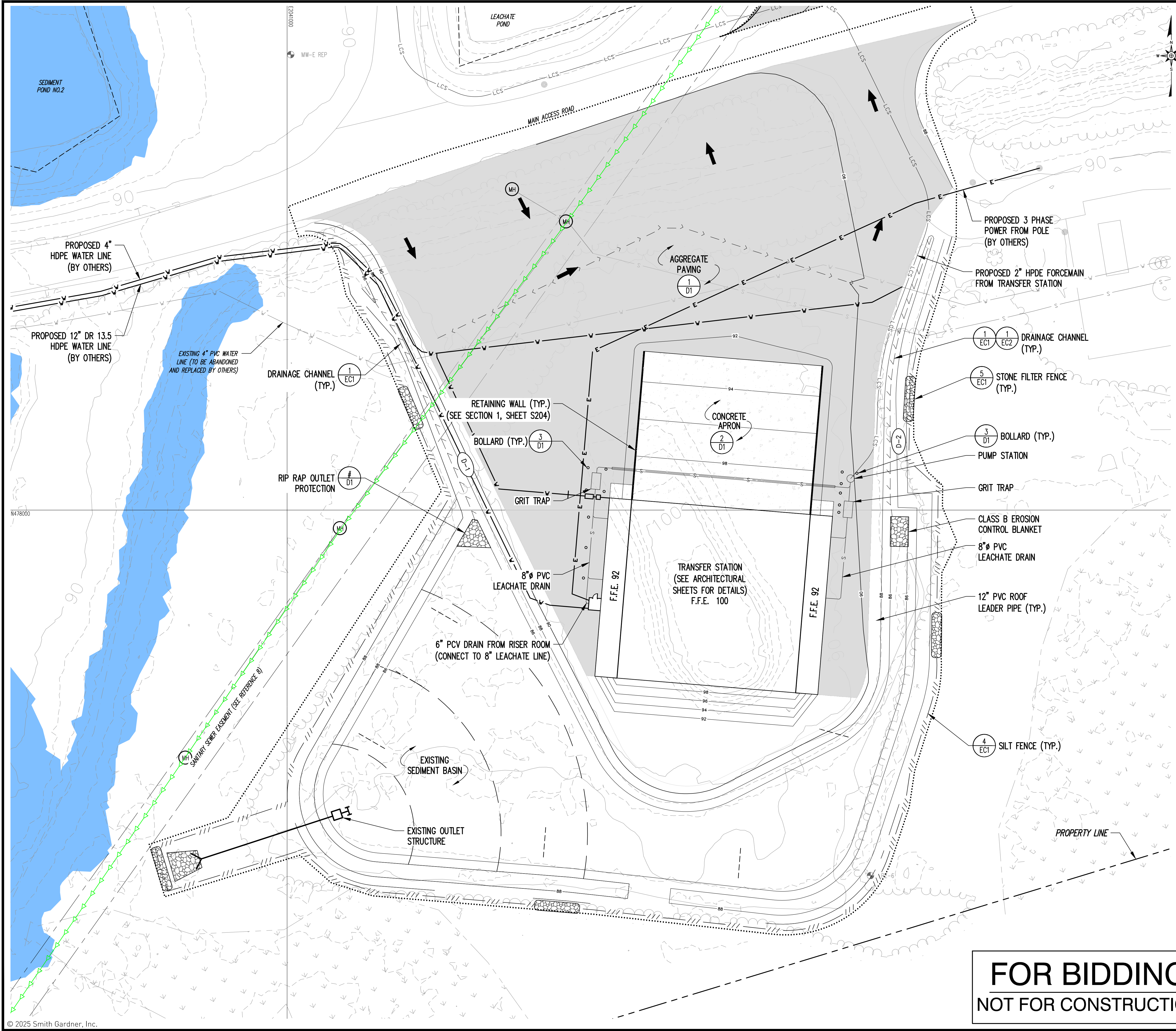
TRAILER PARKING SITE PLAN

DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILENAME: CUMBERLAND-020263	
SHEET NUMBER: 5	DRAWING NUMBER: S4

- REFERENCES**
- SITE TOPOGRAPHY DATED JANUARY 7, 2021 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY IN ACTIVE AREAS PREFROMED ON DEC. 6, 2022, BY SMITH GARDNER INC.
 - PERIMETER BOUNDARY INFORMATION DATED MAY 26, 2022 BY JOYNER KEENEY, FAYETTEVILLE, NC.
 - LANDFILL GAS WELL LOCATION PROVIDED BY SCS ENGINEERS, PC, DRAWING TITLED "ANN STREET C&D LANDFILL FACILITY PLAN"
 - TEST PIT LOCATIONS PROVIDED BY SCS ENGINEERS, P.C. DRAWING TITLED TEST PIT SITE PLAN.
 - EXISTING LANDFILL GAS SYSTEM LOCATIONS DIGITIZED BASED ON "AS-BUILT EXISTING CONDITIONS" DATED SEPTEMBER 2019, "AS-BUILT SITE PLAN" DATED APRIL 2020; PREPARED BY SCS ENGINEERS. WITH SUPPLEMENTS FROM CAD DRAWING TITLED 2021-11-08 BLOWER AND FLARE PAD AS-BUILT MAP; PREPARED BY FEI CIVIL ENGINEERS AND LAND SURVEYORS; DATED OCT. 11, 2021.
 - MONAHEE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY SURVEYING SOLUTIONS OF YOUNGVILLE, NC, DATED JUNE 21, 2022.
 - SANITARY SEWER EASEMENT AND CUMBERLAND COUNTY UTILITY EASEMENT DIGITIZED FROM DRAWING TITLED "CAMPBELL COMPANY 20' SANITARY SEWER EASMT", PROVIDED BY THE CITY OF FAYETTEVILLE PUBLIC WORKS COMMISSION, DATED 4/7/1971.
 - WETLAND LOCATIONS PROVIDED BY 4D SOLUTIONS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDFILL", DATED APRIL 13, 2020.
 - FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 3720044700K, DATED 06/18/07.
 - FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.
 - WATER MAIN AND SANITARY SEWER LINE DIGITIZED FROM TERRADYNE ENERGY SYSTEMS DRAWING TITLED "WATER & SEWER LAYOUT CUMBERLAND COUNTY LANDFILL - ANN ST. SITE", DATED NOV. 29, 1991.

FOR BIDDING
NOT FOR CONSTRUCTION





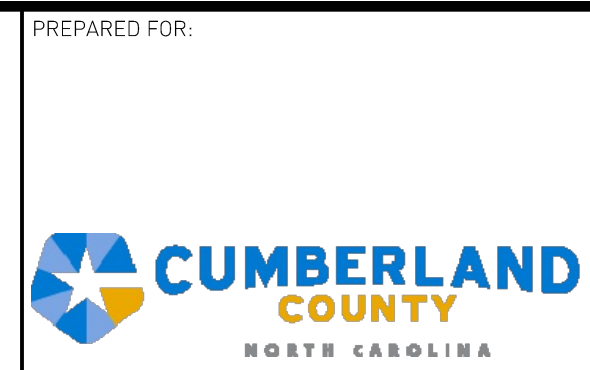
LEGEND

- EXISTING 10' CONTOUR (SEE REFERENCE 1)
- EXISTING 2' CONTOUR (SEE REFERENCE 1)
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPERTY LINE (SEE REFERENCE 2)
- STREAM (APPROXIMATE)
- APPROXIMATE EXISTING WASTE LIMITS
- LIMIT OF FUTURE WASTE PLACEMENT
- LIMITS OF DISTURBANCE
- EXISTING WATER SERVICE (SEE REFERENCE 11)
- EXISTING SANITARY SERVICE (SEE REFERENCE 11)
- EXISTING SEWER LINE
- EXISTING LEACHATE LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED LEACHATE FORCE MAIN
- PROPOSED DRAINAGE CHANNEL
- PROPOSED ALL-WEATHER ACCESS ROAD DRAINAGE CHANNEL
- SILT FENCE
- STONE FILTER FENCE
- PROPOSED FIRE HYDRANT
- FLOOD ZONE AE (SEE REFERENCE 9)
- WETLANDS (SEE REFERENCE 8)
- TRAFFIC FLOW DIRECTION

NOTES

- CONTRACTOR SHALL GRADE BASIN TO PROVIDE DRAINAGE FLOW TO BASIN RISER.
- CONTRACTOR TO VERIFY WHICH EROSION CONTROL MEASURE ARE EXISTING AND PROPOSED MEASURES THROUGHOUT CONSTRUCTION.

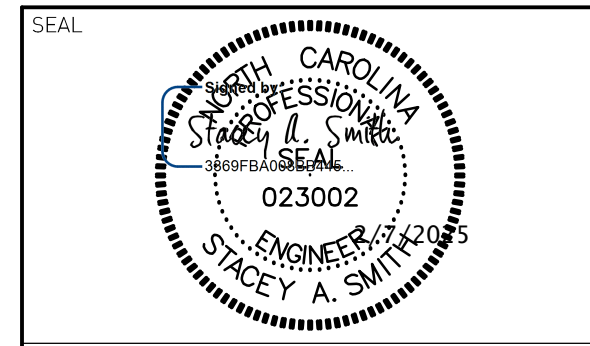
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 - FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 3720044700K, DATED 06/18/07.
 - FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, PC, DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.



PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

SMITH+GARDNER ENGINEERS

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1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3

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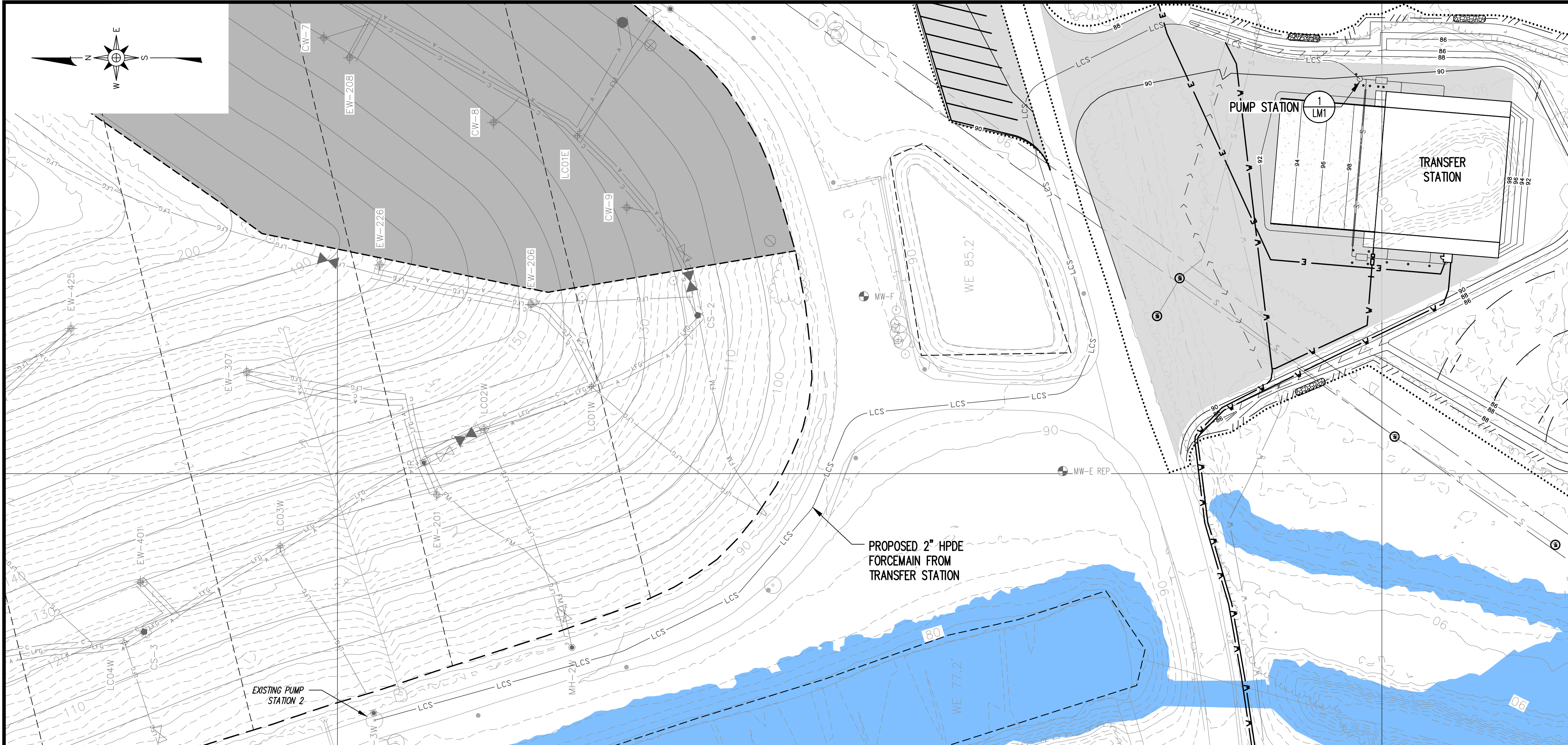
PROJECT TITLE:
ANN STREET LANDFILL SOLID WASTE TRANSFER STATION TRANSFER STATION

DRAWING TITLE:
GRADING SEDIMENTATION & EROSION CONTROL PLAN

DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILENAME: CUMBERLAND-D0263	
SHEET NUMBER: 6	DRAWING NUMBER: S5

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NOT FOR CONSTRUCTION





LEGEND

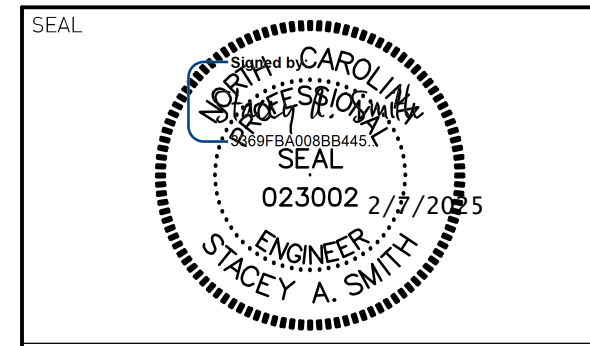
- EXISTING CONTOUR (SEE REFERENCE 1)
- - - PROPERTY LINE (SEE REFERENCE 2)
- - - STREAM (APPROXIMATE)
- - - APPROXIMATE EXISTING WASTE LIMITS
- - - PROPOSED WATER LINE
- - - LIMIT OF FUTURE WASTE PLACEMENT
- LIMITS OF DISTURBANCE
- EXISTING SEWER LINE
- EXISTING LEACHATE LINE
- EXISTING WATER LINE
- LFG EXISTING LANDFILL GAS LINE (SEE REFERENCES 5, 6, & 11)
- A EXISTING COMPRESSED AIR LINE (SEE REFERENCES 5, 6, & 11)
- C EXISTING CONDENSATE LINE (SEE REFERENCES 5, 6, & 11)
- AC EXISTING COMPRESSED AIR AND CONDENSATE LINE (SEE REFERENCES 5, 6, & 11)
- FM EXISTING FORECMAIN (SEE REFERENCES 5, 6, & 11)
- FINAL COVER LIMITS (SEE REFERENCE 11)
- FLOOD ZONE AE (SEE REFERENCE 9)
- FLOODWAY (SEE REFERENCE 9)
- WETLANDS (SEE REFERENCE 8)
- EW-720 LFG EXTRACTION WELL (SEE REFERENCE 5 & 11)
- CW-1 LFG CAP WELL (SEE REFERENCE 5)
- LC05E LEACHATE CLEANOUT WELL (SEE REFERENCE 5 & 11)
- TP-1 TEST PIT (SEE REFERENCE 4)
- GP-1 GAS MONITORING PROBE (SEE REFERENCE 4)
- MW-1 MONITORING WELL (SEE REFERENCE 4)
- I-1 INJECTION WELL (SEE REFERENCE 5)
- SW-1 STORMWATER MONITORING POINT (SEE REFERENCE 4)
- CS-1 CONDENSATE SUMP (SEE REFERENCE 5 & 11)
- RW-930 PROPOSED REMOTE WELLHEAD
- EXISTING LEACHATE COLLECTION PIPE CLEANOUT (SEE REFERENCE 5)
- SEWER MANHOLE
- LEACHATE MANHOLE
- FIRE HYDRANT
- BACKFLOW PREVENTER

PREPARED FOR:

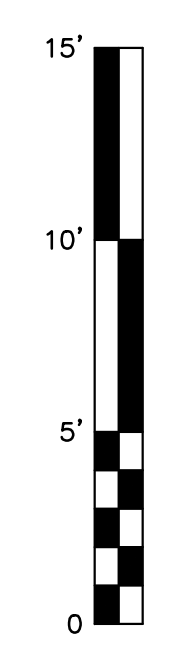
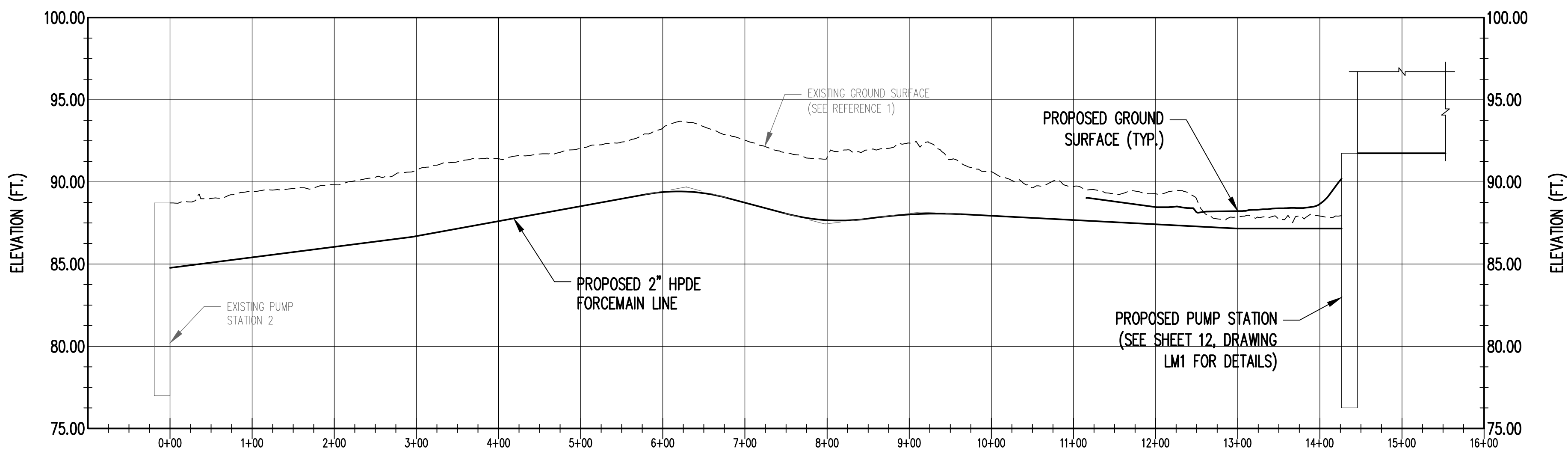
PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)
SC COA NO. C01488

SMITH+GARDNER ENGINEERS

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1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3



FORCEMAIN LINE STA. 00+00 - 14+27

PROFILE 2
SCALE: AS SHOWN S9

- REFERENCES**
- SITE TOPOGRAPHY DATED MARCH 18, 2022 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY FOR CELLS 8-10 BY SMITH GARDNER US AERIAL TOPOGRAPHY, DATED MARCH 21, 2024.
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 - WETLAND LOCATIONS PROVIDED BY 4D SOLUTIONS DRAWING TITLED "WETLANDS MAP OF THE ANN STREET LANDFILL", DATED APRIL 13, 2020.
 - FLOOD PLAIN INFORMATION PROVIDED BY NORTH CAROLINA FLOOD RISK INFORMATION SYSTEM. SEE FEMA FLOODPLAIN MAP PANEL 0447, MAP NUMBER 3720044700K, DATED 06/18/07.
 - FINAL COVER LIMITS INFORMATION PROVIDED BY SCS ENGINEERING, P.C. DRAWING TITLED "FINAL GRADING PLAN", DATED MAY 2019.
 - PROTECTIVE COVER (PCVR) ELEVATIONS FOR CELLS 1-5 BASED ON CDM DRAWING TITLED "CUMBERLAND COUNTY ANN STREET LANDFILL FACILITY PLAN", DATED JANUARY 1995; CELLS 6-8 (PCVR) ELEVATIONS BASED ON CAD DRAWING FROM CDM TITLED "C-5"; DATED SEPTEMBER 2020; CELLS 9-10 (PCVR) BASED ON CAD DRAWING FROM CDM TITLED "CUMBERLAND LF FINAL ASBUILT".
 - ALL POINT FEATURES FOR WATER, SEWER, AND LEACHATE INFRASTRUCTURE FROM FIELD SURVEYS CONDUCTED BY SMITH GARDNER, INC., DATED 12/07/2023, 12/20/2023, AND 01/15/2024.
 - WATER LINES IN ENTRANCE AREA FROM DRAWING TITLED "ANN STREET LANDFILL SITE ENTRANCE IMPROVEMENTS" BY SCS ENGINEERS, P.C. DATED APRIL 2020.
 - LEACHATE FORCEMAIN LOCATION BETWEEN PS-1 AND PS-2 FROM DRAWING TITLED "TOPOGRAPHY BASE MAP OF A PORTION OF THE ANN STREET LANDFILL FEBRUARY 2018 FOR CUMBERLAND COUNTY SOLID WASTE MANAGEMENT" BY JOYNER KEENEY, PLLC, DATED 03/29/2018.

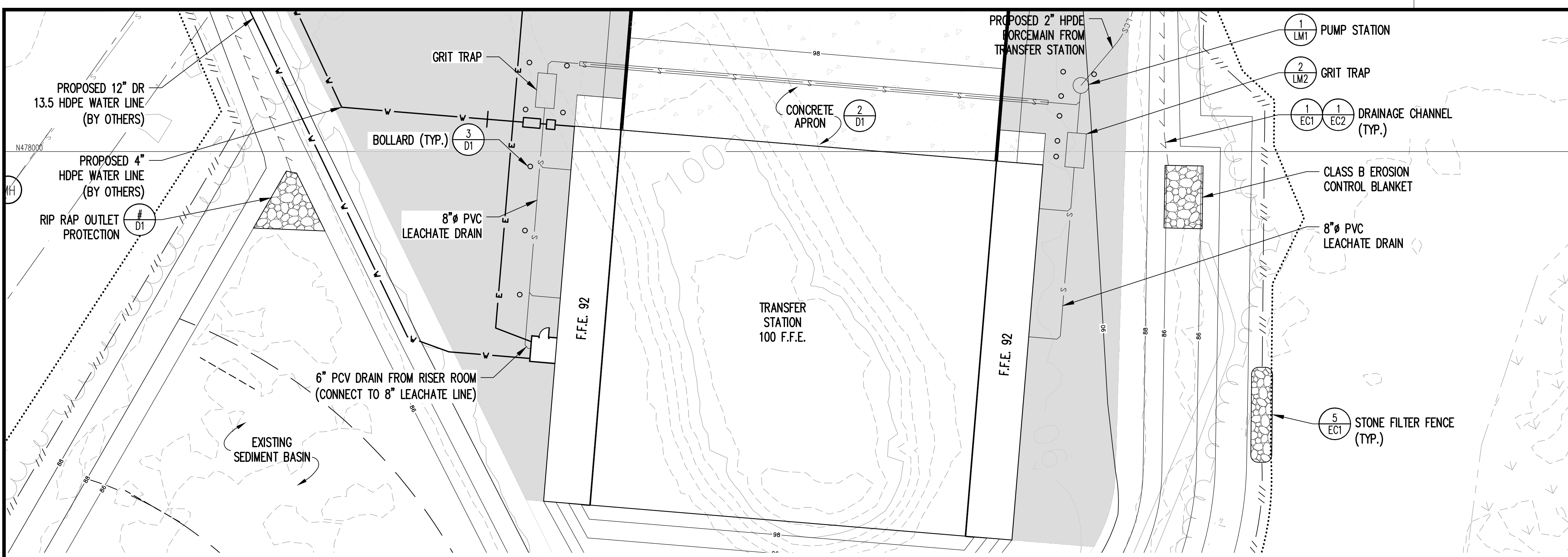
- NOTES**
- WATER FOR CONSTRUCTION PURPOSES AVAILABLE FROM TAP ON BUILDING.
 - LANDFILL GAS SYSTEM COMPONENTS IN CELLS 8-10 UNDER CONSTRUCTION, PROPOSED WORK IS SHOWN.

FOR BIDDING
NOT FOR CONSTRUCTION

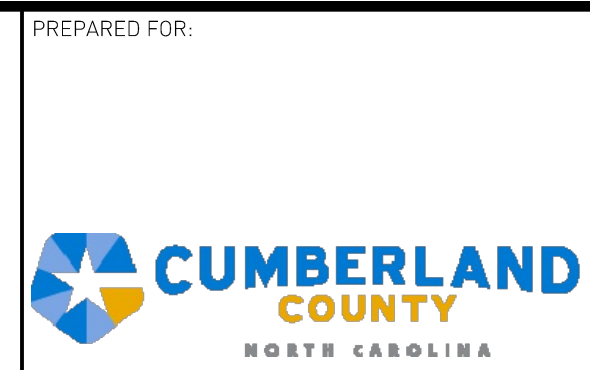
PROJECT TITLE:
ANN STREET LANDFILL SOLID WASTE TRANSFER STATION TRANSFER STATION

DRAWING TITLE:
LEACHATE FORCEMAIN PLAN AND PROFILE (SHEET 1 OF 2)

DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILENAME: CUMBERLAND-00263	
SHEET NUMBER: 8	DRAWING NUMBER: S7



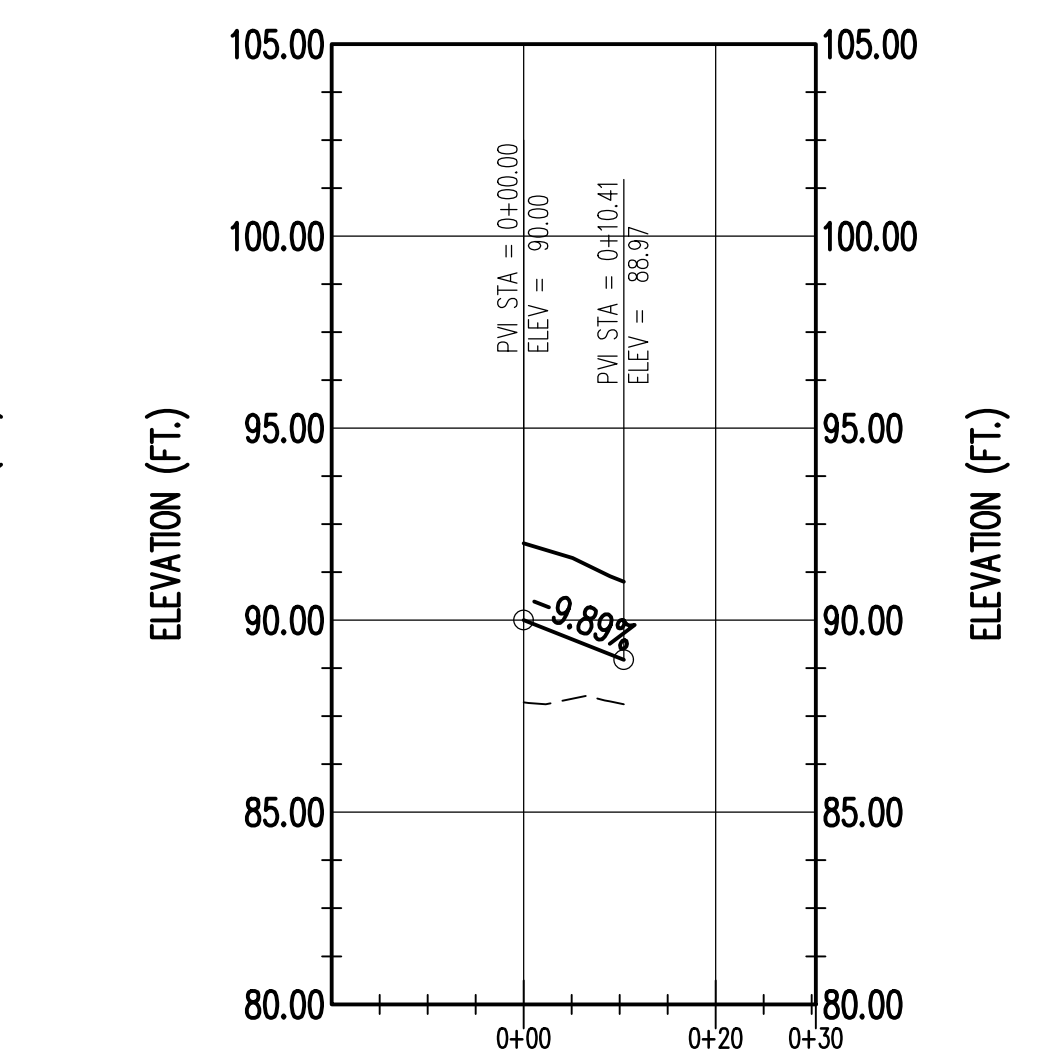
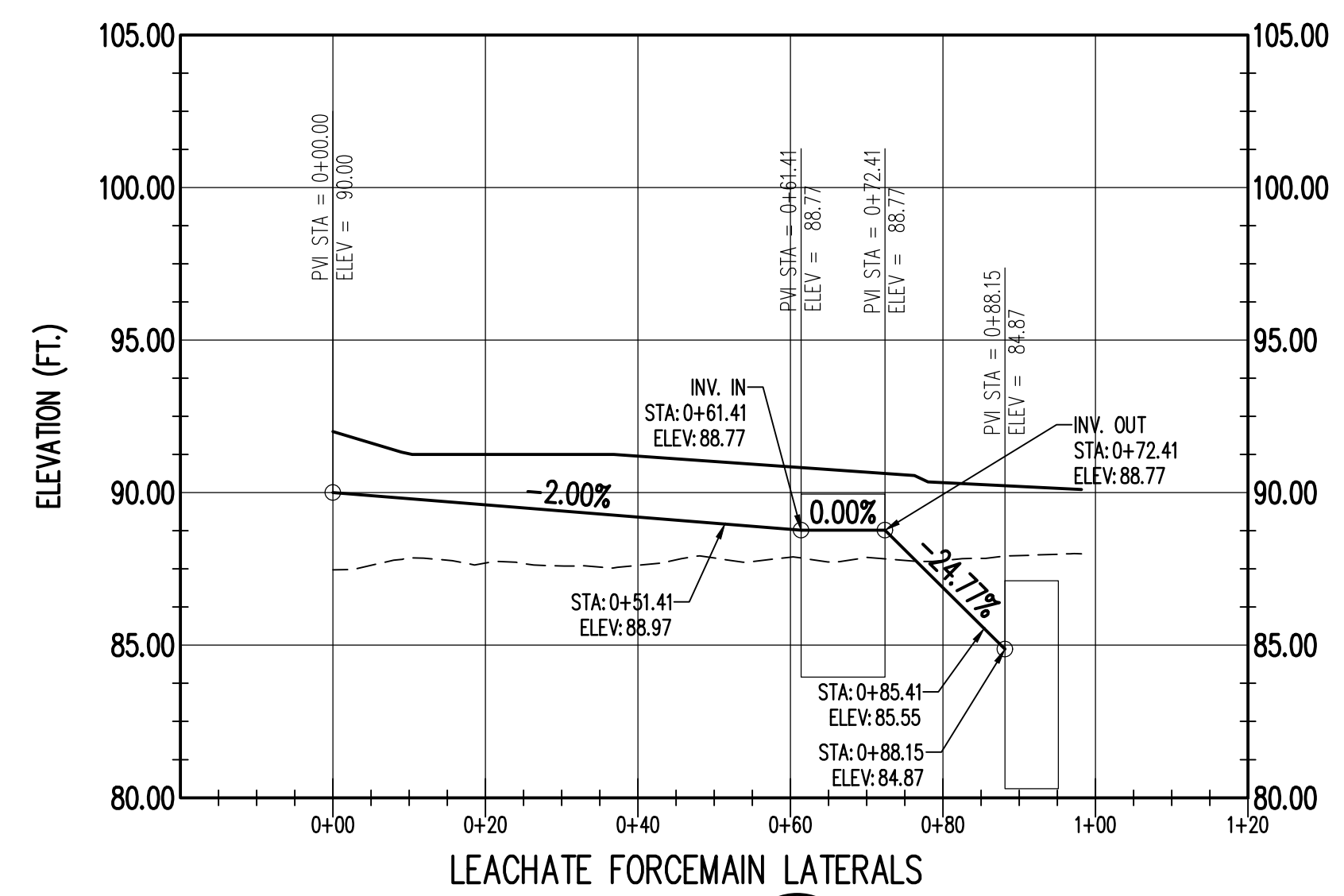
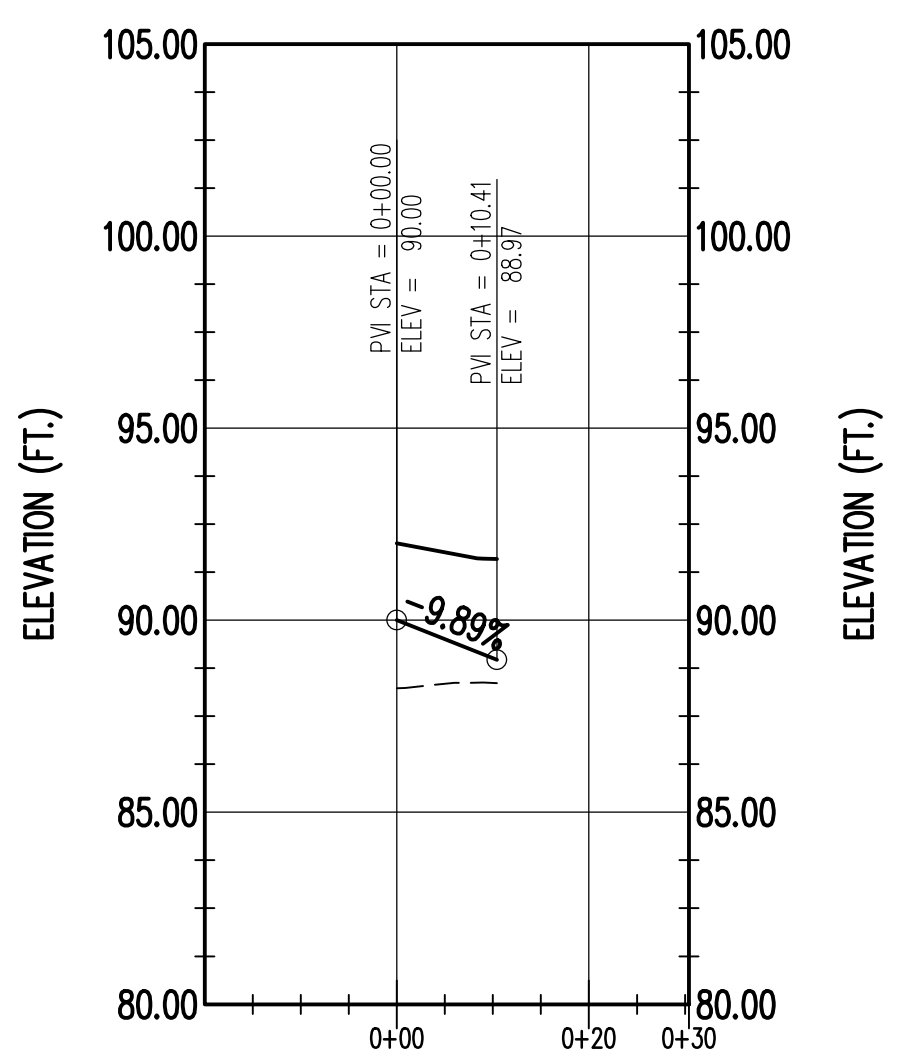
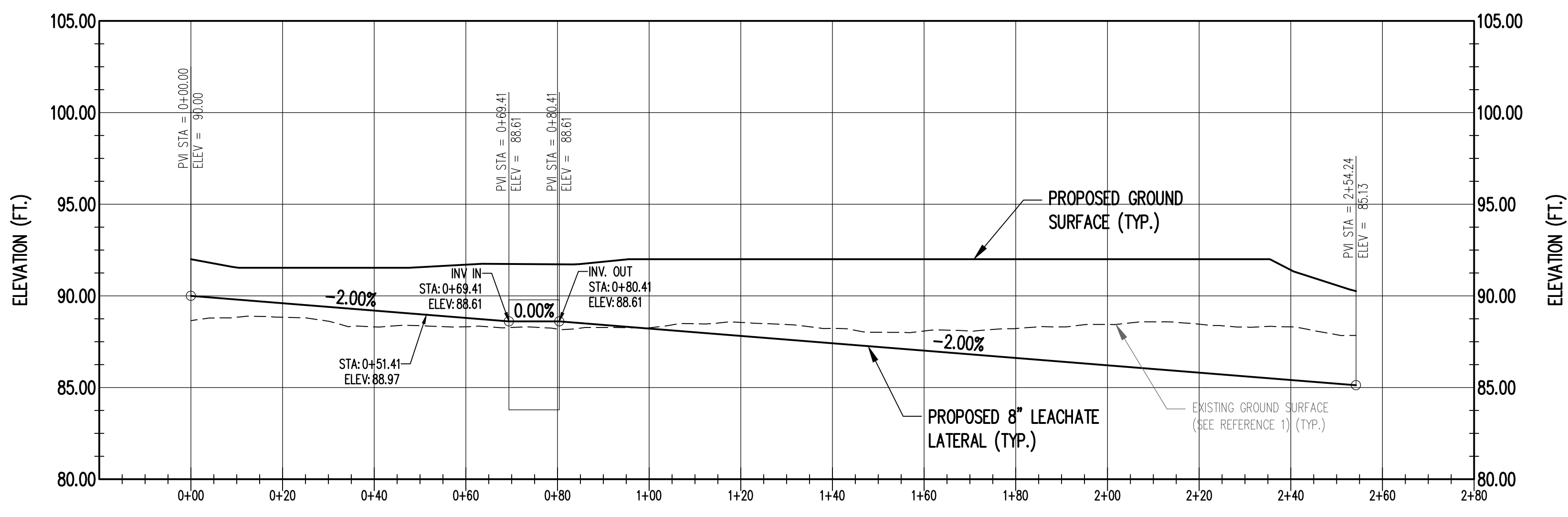
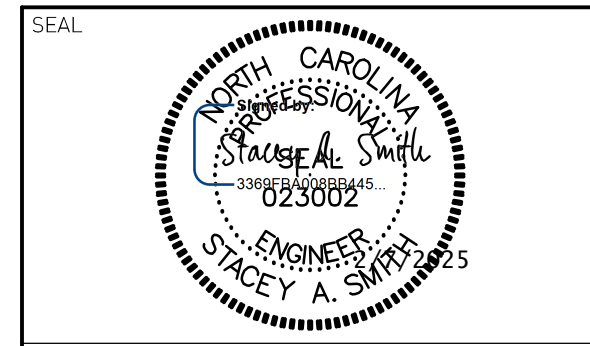
- LEGEND**
- EXISTING CONTOUR (SEE REFERENCE 1)
 - - - PROPERTY LINE (SEE REFERENCE 2)
 - - - STREAM (APPROXIMATE)
 - - - APPROXIMATE EXISTING WASTE LIMITS
 - - - PROPOSED WATER LINE
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 - FM EXISTING FORECMAIN (SEE REFERENCES 5, 6, & 11)
 - FINAL COVER LIMITS (SEE REFERENCE 11)
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PREPARED BY: NC LIC. NO. F-1070 (ENGINEERING)
SC COA NO. C01488

SMITH+GARDNER ENGINEERS

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1526 Richland St., Columbia SC 29201



LEACHATE FORCEMAIN LATERALS
PROFILE 2
SCALE: AS SHOWN
S7

- REFERENCES**
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 - WATER LINES IN ENTRANCE AREA FROM DRAWING TITLED "ANN STREET LANDFILL SITE ENTRANCE IMPROVEMENTS" BY SCS ENGINEERS, P.C. DATED APRIL 2020.
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- NOTES**
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 - LANDFILL GAS SYSTEM COMPONENTS IN CELLS 8-10 UNDER CONSTRUCTION, PROPOSED WORK IS SHOWN.

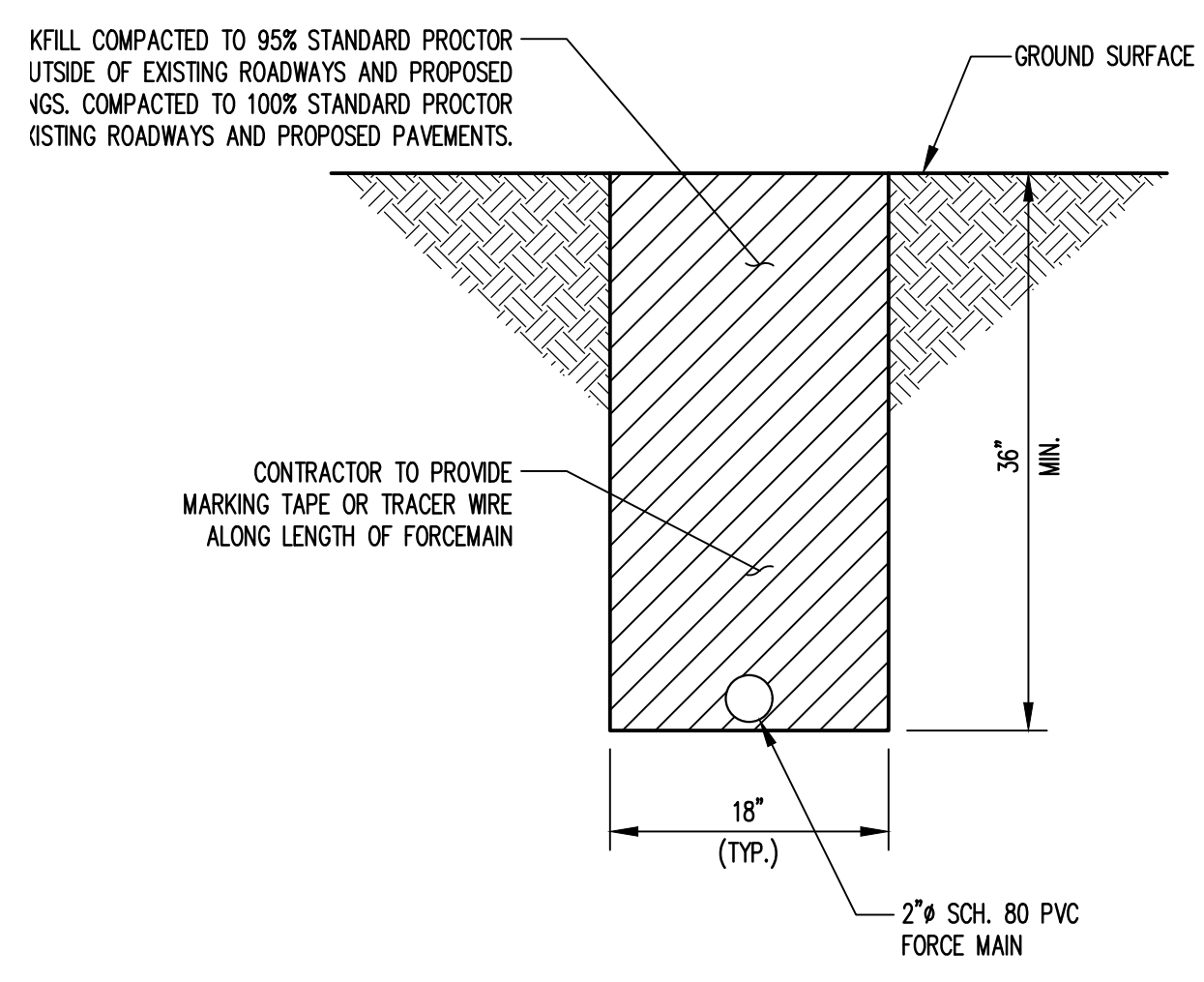
FOR BIDDING
NOT FOR CONSTRUCTION

REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3

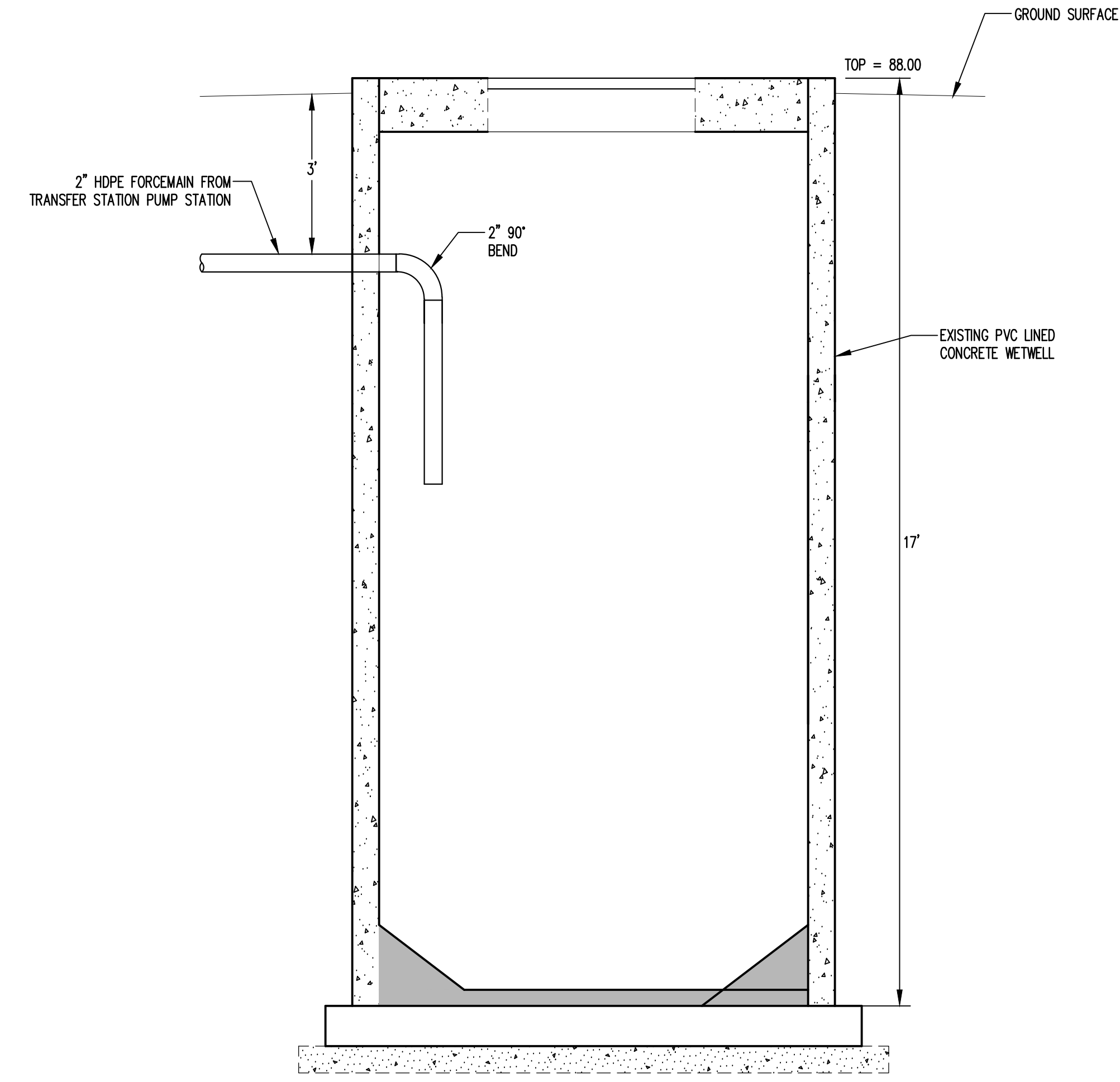
PROJECT TITLE:
ANN STREET LANDFILL SOLID WASTE TRANSFER STATION TRANSFER STATION

DRAWING TITLE:
LEACHATE FORCEMAIN PLAN AND PROFILE (SHEET 2 OF 2)

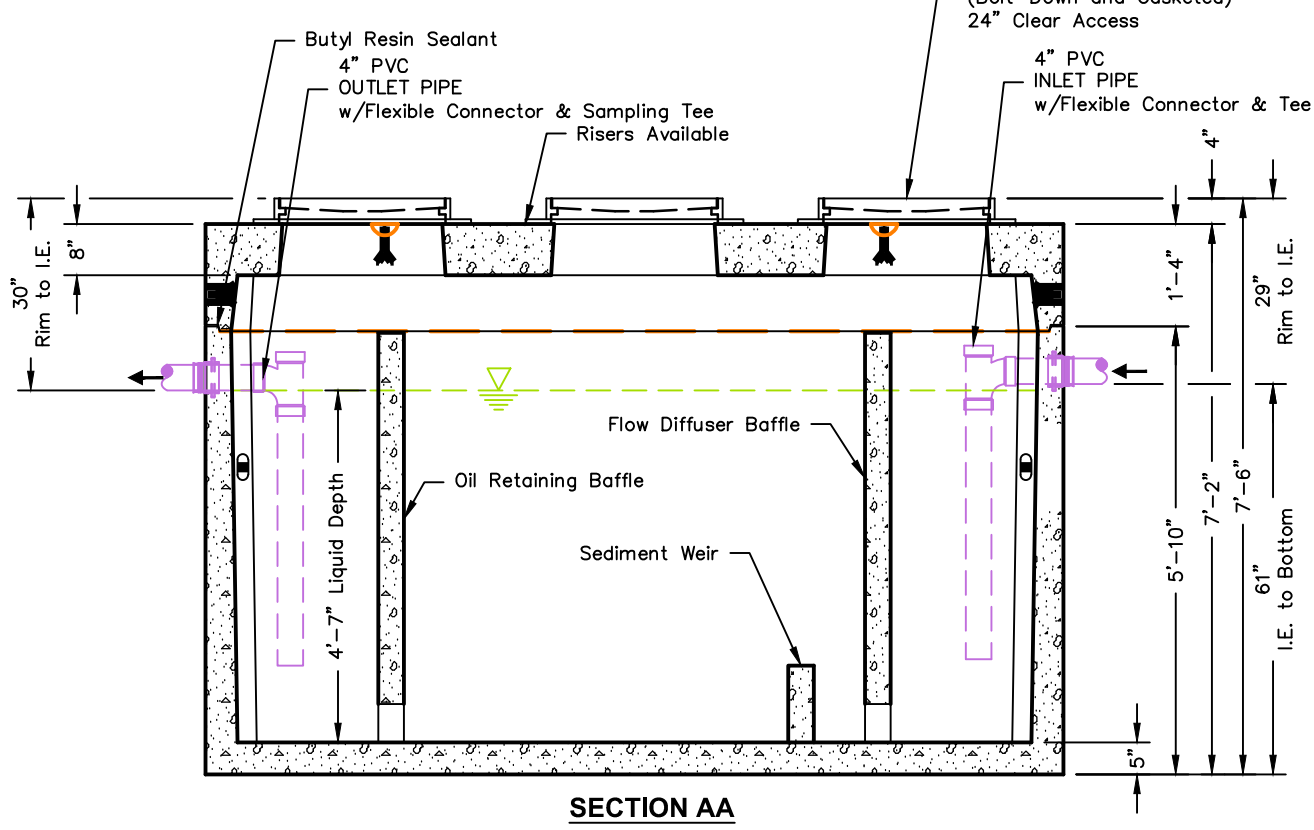
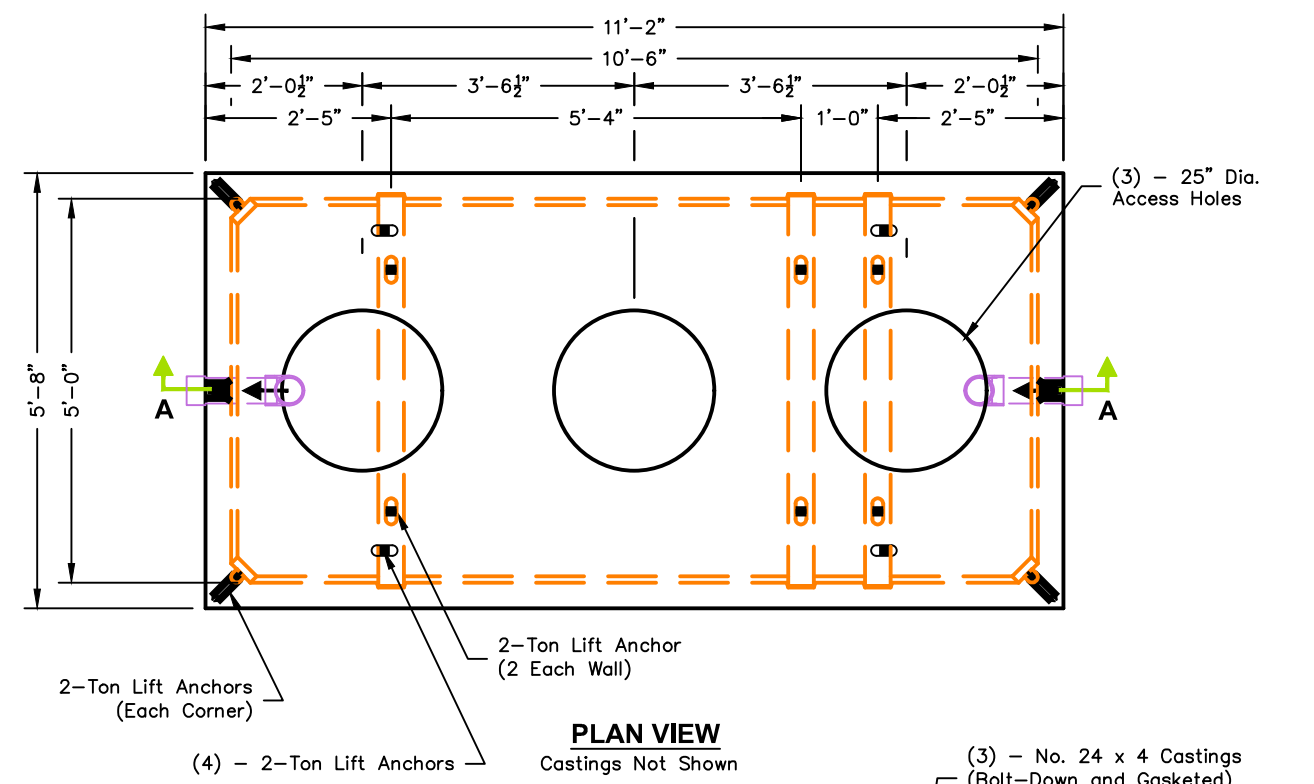
DESIGNED: J.D.B.	PROJECT NO: CUMBERLAND 22-1
DRAWN: J.R.T.	SCALE: AS SHOWN
APPROVED: S.A.S.	DATE: DEC. 2024
FILE NAME: CUMBERLAND-00263	DRAWING NUMBER: 9
SHEET NUMBER: 9	DRAWING NUMBER: S8



MAIN-PIPE-TRNCH
DETAIL 1
 NOT TO SCALE **LM2**

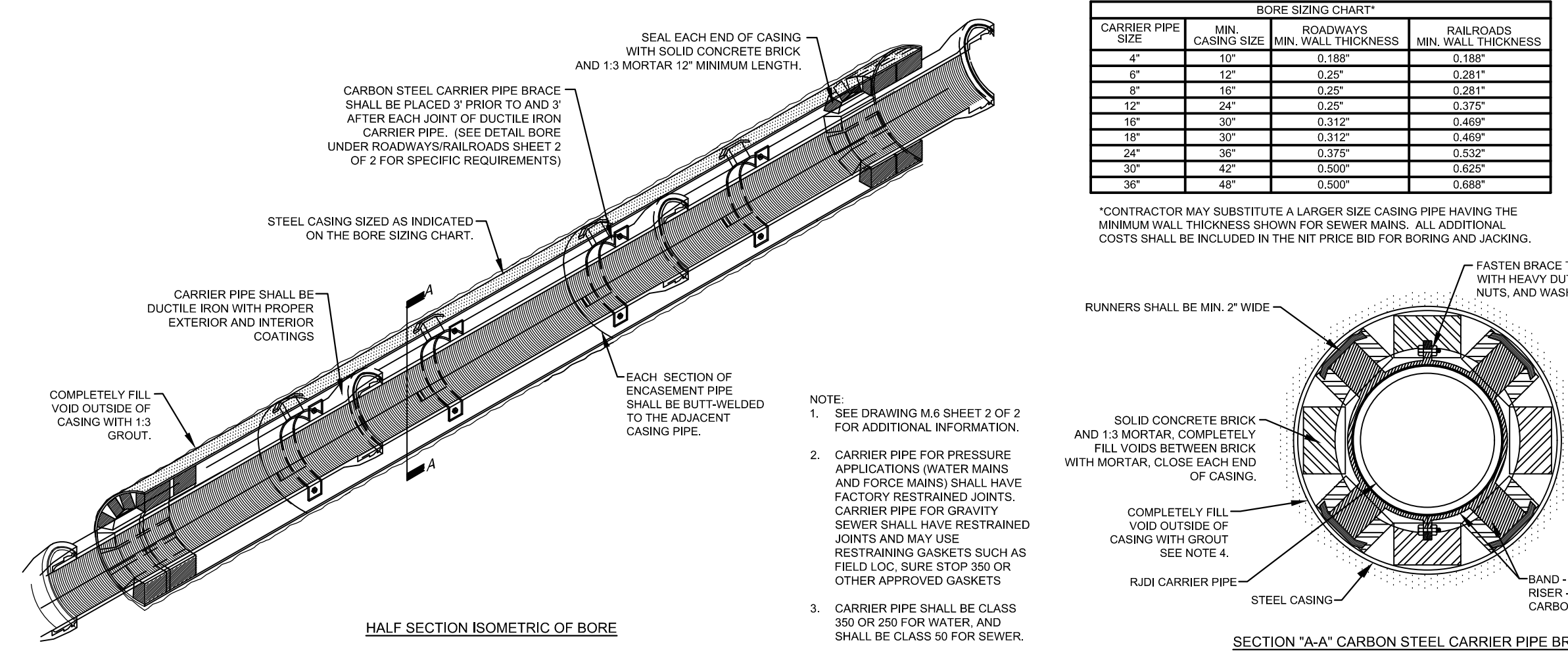


FM CONNECTION TO EXIST
DETAIL 3
 NOT TO SCALE **LM2**



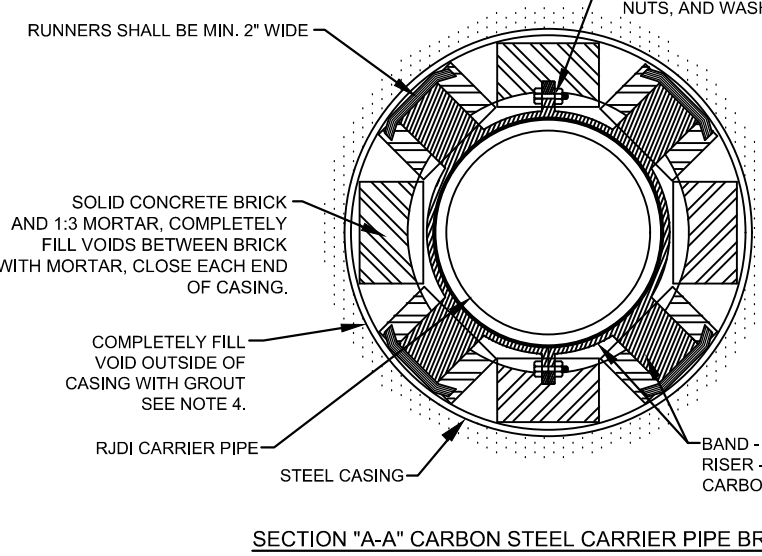
- Notes:**
- Designed in accordance with ASTM C 890 for AASHTO HS20-44 vehicle loading
 - Flow Rate 117 GPM based on 15 min. retention time.
 - Manufacturer's recommendations:
 - 1.) Ventilate each end to open atmosphere.
 - 2.) Prior to "Start Up" of System, fill with clean water to bottom of outlet pipe (approx. one foot deep). For best results, fill to flow line.
 - 3.) Follow Regular Inspection, Cleaning, & Maintenance Schedule (See Clean Out & Maintenance).

OIL WATER SEPARATOR
DETAIL 2
 NOT TO SCALE **LM2**



CARRIER PIPE SIZE	BORE SIZING CHART*		
	MIN. CASING SIZE	ROADWAYS MIN. WALL THICKNESS	RAILROADS MIN. WALL THICKNESS
4"	10"	0.188"	0.188"
6"	12"	0.25"	0.281"
8"	16"	0.25"	0.281"
12"	20"	0.25"	0.375"
16"	30"	0.312"	0.468"
18"	30"	0.312"	0.468"
24"	36"	0.375"	0.562"
30"	42"	0.500"	0.625"
36"	48"	0.500"	0.688"

*CONTRACTOR MAY SUBSTITUTE A LARGER SIZE CASING PIPE HAVING THE MINIMUM WALL THICKNESS SHOWN FOR SEWER MAINS. ALL ADDITIONAL COSTS SHALL BE INCLUDED IN THE NET PRICE BID FOR BORING AND JACKING.



LEACHATE LATERAL CASING DETAIL
DETAIL 4
 NOT TO SCALE **LM2**

- NOTES:**
1. PUMP STATION INFORMATION FROM "CELLS 1 THRU 5 - CONSTRUCTION PLAN, ANN STREET SUBTITLE D LANDFILL" SHEET D4, PROJECT NUMBER 2724-3 BY CDM, DATED 5/29/97.
 2. INTERNAL COMPONENTS IN PUMP STATION NOT SHOWN FOR CLARITY.
 3. CONTRACTOR TO CUT HOLE IN PUMP STATION WITH MINIMAL DISTURBANCE TO EXISTING PVC LINER.
 4. CONTRACTOR TO REPAIR ANY DAMAGE TO THE PVC LINER CAUSED BY INSTALLATION OF FORCE MAIN.
 5. CONTRACTOR TO PROVIDE PVC BOOT SOLVENT WELDED TO EXISTING PVC LINER OR EQUIVALENT AS APPROVED BY ENGINEER.

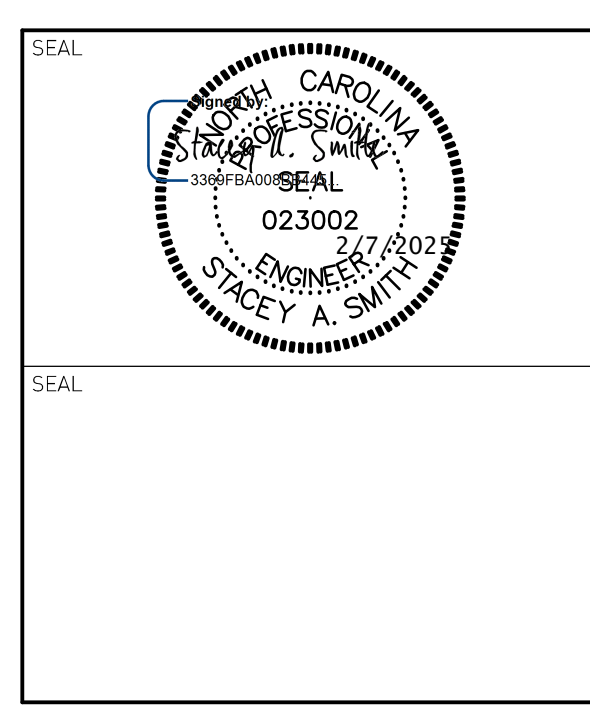
FOR BIDDING
NOT FOR CONSTRUCTION

PREPARED FOR:

PREPARED BY: NC LIC. NO. F-1370 (ENGINEERING)
 SC COA NO. C01488

SMITH+GARDNER ENGINEERS

14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577
 1526 Richland St., Columbia SC 29201



REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3

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PROJECT TITLE:
**ANN STREET LANDFILL
 SOLID WASTE TRANSFER STATION
 TRANSFER STATION**

DRAWING TITLE:
**LEACHATE MANAGEMENT DETAILS
 (SHEET 2 OF 2)**

DESIGNED	J.D.B.	PROJECT NO.	CUMBERLAND 23-6
DRAWN	J.R.T.	SCALE	AS SHOWN
APPROVED	S.A.S.	DATE	DEC. 2024
FILENAME	CUMBERLAND-D0264		
SHEET NUMBER	14	DRAWING NUMBER	LM2

A1. Base Bid Schedule – Transfer Station:

Pay Item Number	Description	Spec. Reference	Estimated Quantity ¹	Units	Unit Cost	Extended Cost
1	Site Preparation	02110	3.7	AC	Lump Sum	
2	Excavation to Stockpile	02222	3,900	CY	Lump Sum	
3	Excavation-to-Embankment	02222/02223	3,600	CY	Lump Sum	
4	Over-excavation and Backfill	02222/02223	100	CY	Lump Sum	
5	Erosion and Sedimentation Control (Maintenance and Installation)	02270	1	LS	Lump Sum	
6	Aggregate Paving	02500	10,650	SY	Lump Sum	
7	Concrete Paving - Pavement and Ramps	02500	1,370	SY	Lump Sum	
8	1.5" HDPE Waterline	02616	160	LF	Lump Sum	
9	8" PVC Leachate Drainage Line	02616	345	LF	Lump Sum	
10	Precast Concrete Oil Water Separator	02608	2	EA	Lump Sum	
11	PVC Roof Drainage System	02616	370	LF	Lump Sum	
12	Leachate Pump Station	11316	1	LS	Lump Sum	
13	Leachate Forcemain	02614	1	LS	Lump Sum	
14	Revegetation	02930	1.5	AC	Lump Sum	
15	Structural Concrete (Foundations and Floor)	DWG	1	LS	Lump Sum	
16	Concrete Floor Overlay	DWG	1	LS	Lump Sum	
17	Concrete Retaining Walls (Site)	DWG	2	LS	Lump Sum	
18	Steel Plated Concrete Lifter and Push Walls	DWG	1	LS	Lump Sum	
19	Pre-Engineered Metal Building	DWG	1	LS	Lump Sum	
20	Plumbing (Domestic Service)	DWG	1	LS	Lump Sum	
21	Mechanical	DWG	1	LS	Lump Sum	

Pay Item Number	Description	Spec. Reference	Estimated Quantity ¹	Units	Unit Cost	Extended Cost
22	Fire Suppression	DWG	1	LS	Lump Sum	
23	Electrical	DWG	1	LS	Lump Sum	
24	Utility Connections/Relocations	DWG	1	LS	Lump Sum	
25	Mobilization, Bonds, and Insurance	01025	1	LS	Lump Sum	

The TOTAL BASE BID PRICE for the pay items listed above is as follows:

(In Words) _____ Dollars and _____ Cents.

(In Numbers) (\$ _____)

Notes:

1. Engineer's estimated quantities are based on in-place quantities. Areas and lengths are based on horizontally projected areas and lengths. No adjustments have been made for stripping topsoil, slopes, uneven contours, overlaps, seams, anchor trenches, compaction factors, etc.

B. Miscellaneous Additions and Deductions:

The Bidder agrees that the Owner has the full unconditional right to select any combination of additions or deductions and adjust the total Contract price accordingly. Variations from estimated quantities shall be in accordance with the General Conditions. For additions or deductions as described by the Engineer, the following unit prices bid under the Base Bid shall apply:

Misc. Item Number	Description	Spec. Reference	Units	Unit Price
M1	Electrical Cable 4 - #2/0	DRAWING	LF	