

February 12, 2025

**ADDENDUM NO. 4
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

AD4-1. *Sheet 7, Drawing S6*

II. QUESTIONS AND ANSWERS

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

AD4-2. *Please clarify if the topping slab has a separate mix design.*

Contractors shall apply the following notes to the Topping Slab on the tipping floor and loading tunnels.

II. CONCRETE TOPPING SLAB

1. UNLESS OTHERWISE NOTED, CONCRETE MIX SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-08 AND SHALL MEET THE FOLLOWING REQUIREMENTS:

MAXIMUM WATER/CEMENT (W/C) RATIO = 0.36

MINIMUM 5,000 PSI 28-DAY COMPRESSIVE STRENGTH

4"-5" SLUMP (SEE NOTE ON HRWR BELOW)

THE TOTAL VOLUME FRACTION OF AGGREGATE SHALL NOT BE LESS THAN 70% OF THE TOTAL VOLUME OF THE MIXTURE. COARSE AGGREGATE SHALL CONSIST OF GRANITE AGGREGATE.

CONCRETE MIX SHALL BE PROPORTIONED TO MINIMIZE WATER CONTENT, DRYING SHRINKAGE CRACKING, AND CURLING. AGGREGATE SHALL BE PROPERLY GRADED. THE LARGEST SIZE OF PROPERLY GRADED AGGREGATE AVAILABLE SHALL BE USED. TYPE I OR TYPE II PORTLAND CEMENT SHALL BE USED. THE USE OF FLYASH OR OTHER SUPPLEMENTARY CEMENTITIOUS MATERIALS SHALL NOT BE PERMITTED. A SHRINKAGE REDUCING ADMIXTURE SHALL BE USED (SIMILAR TO SIKA CONTROL -40 OR EQUIVALENT), WITH DOSAGE RATES AS RECOMMENDED BY THE MANUFACTURER.

A HIGH RANGE WATER REDUCER (HRWR) MAY BE USED. SLUMP GIVEN IS BEFORE THE ADDITION OF THE HRWR. SLUMP AT THE POINT OF PLACEMENT (AFTER THE ADDITION OF HRWR) WILL BE HIGHER (APPROXIMATELY 6" -7"). THE HRWR SHALL BE SELECTED TO INCREASE CONCRETE WORKABILITY WITHOUT SEGREGATION OF THE MIXTURE. ALL ADMIXTURES USED SHALL BE COMPATIBLE.

AD4-3. *Please clarify the location of the transformer. It is not shown on Sheet 7, Drawing S6.*

See attached Bulletin Drawing.

AD4-4. *Clarify the conduit size required by the note on Sheet 7, Drawing S6.*

Contractors shall stipulate the conduit size they will supply in their bid. In the event the conduit size is different than that stipulated based upon final location of PWC service, the change may be included in a Change Order.

AD4-5. *Please clarify the notes on Section 1, Sheet S2020 relative to the HSS 8x8x3/8 steel sections called out in two locations. The PEMB suppliers are concerned about conflicts with the called out steel section and x-bracing in bays not affected by the deflector plate.*

Contractor to place X-bracing in bays in any of bays D through F.

AD4-6. *The Pre-Bid Meeting Summary included in Addendum No. 01 stated within the Project Description that there is a very particular concrete mix design for the 7" topping slabs. We are unable to locate any specific provisions for mix design, required admixtures, etc. pertaining specifically to the 7" topping slab. Please clarify what is meant by "Sacrificial concrete floors on tipping and load out floors. These do have a very specific mix design".*

See response AD4-2

AD4-7. *Please clarify the response to Addendum No. 01, AD1-7, which indicated the only field painting requirements applied to door frames, doors, and bollards. Please confirm no painting is required for miscellaneous building steel components to include building columns, deflector plates, exposed plates on push walls, etc.)*

No Painting is required for miscellaneous building steel components to include building columns, deflector plates, exposed plates on push walls, etc.

AD4-8. *Please confirm field painting of sprinkler piping (as noted on the fire suppression drawings) is no longer required, in accordance with the painting clarifications listed in Addendum No. 01, AD1-7.*

No field painting of sprinkler piping is required.

AD4-9. *Please confirm if there is any required specified rubbed finish for exposed concrete walls? What are the acceptable finish requirements for exposed walls?*

Finish requirements below:

- Repair surface defects, including tie holes, immediately after removing formwork.
- Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
 - Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.

AD4-10. *Please specify panel profile for metal wall panels.*

Trapezoidal rib as shown in specifications on AS101

AD4-11. *Please clarify the Roofing System/Panels required. Elevations, graphically, appear to show "ribs" spaced wider than the wall panels indicating it could be a standing seam metal roof. However, the PEMB specification on AS101 seems to indicate the wall and roof panels are the same product (i.e. exposed mechanically fastened Wall and Roof Panels).*

Graphics on elevations are not to scale. Provide manufacturer standard roof and wall panels. Specifications call for exposed fasteners.

AD4-12. *With a low slope (1:12) roof as this is, the roof will not be very visible from the ground level. Galvalume finish is recommended for cost effectiveness. However, please confirm if roof panels should have a painted finish from manufacturer's standard range of color options.*

Specifications AS101 call for a panels to be precoated and a color selected from manufacturers standard colors

AD4-13. *We'd like to request ICS be an approved PEMB supplier. Please see attached brochure/docs. Website as follows: www.ironcitystructures.com*

There are no pre-approved suppliers listed on the drawings. The GC shall provide a PEMB that shall meet the design criteria and specifications of the drawings. GC shall provide shop drawings and qualifications statements as stated in specifications.

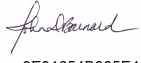
AD4-14. *Can the welded steel carrier be installed by open cut or does it have to be jack and bored?*

We would anticipate that being installed during the earthwork portion of the project by open cut. The decision is left to the Contractor.

END OF ADDENDUM

Submitted by,

SMITH GARDNER, INC.

DocuSigned by:


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John D. Barnard, P.E.

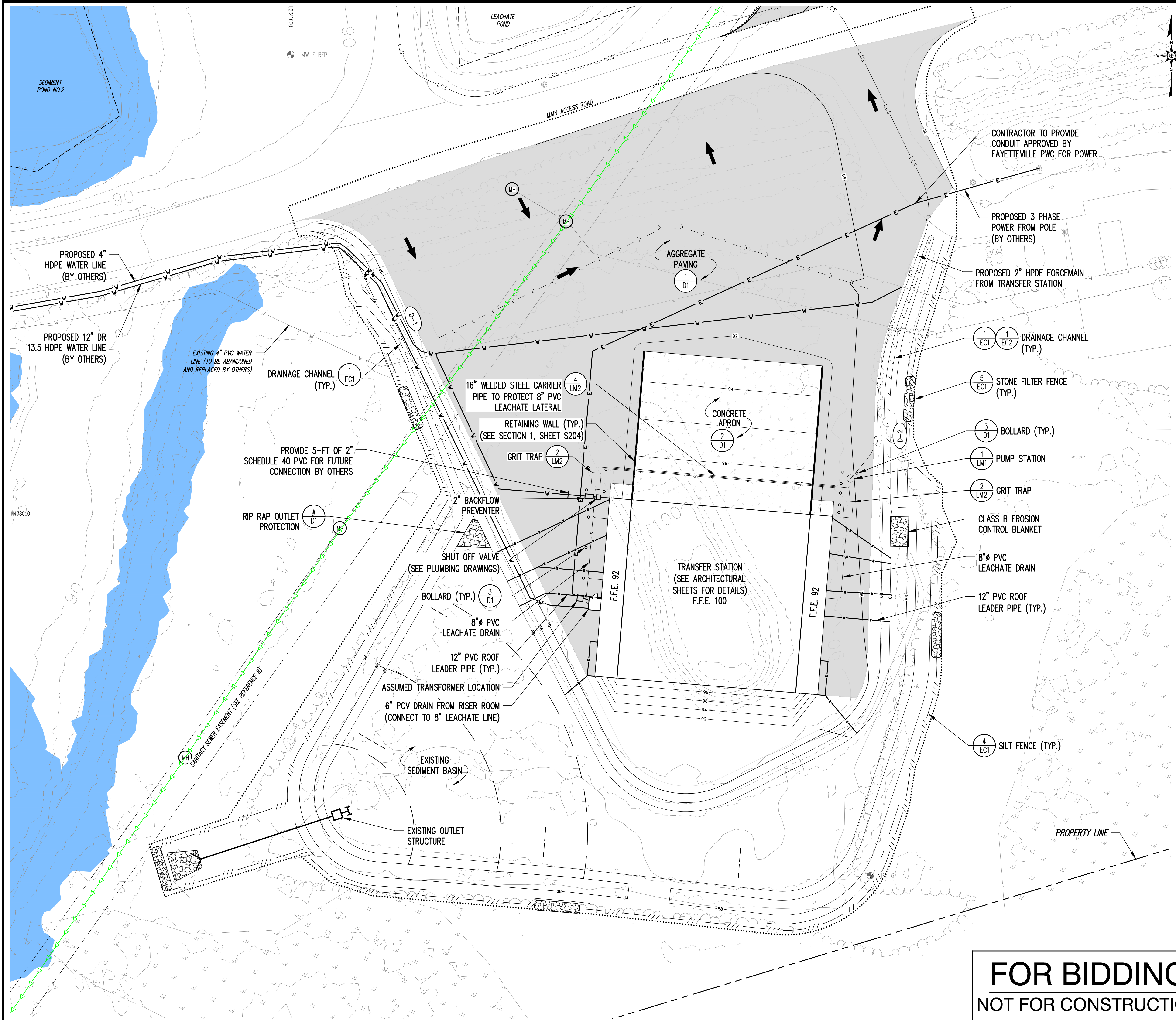
Senior Engineer

johnb@smithgardnerinc.com

Attachments Revised Sheet 7, Drawing S6

Cc: Plan Holders
Amanda Lee
Johnny Scott
File

H:\Projects\Cumberland County (NC)\CUMBERLAND-23-6 (Transfer Station Permitting)\Bid Documents\Addenda\Addendum 4\Cumberland Transfer Station Construction Addendum No. 4.docx



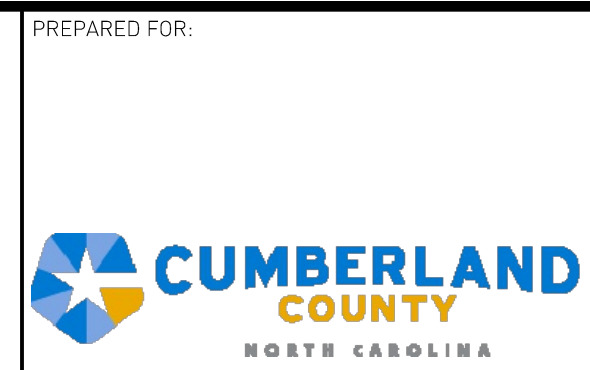
LEGEND

- 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
- LCS --- 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.

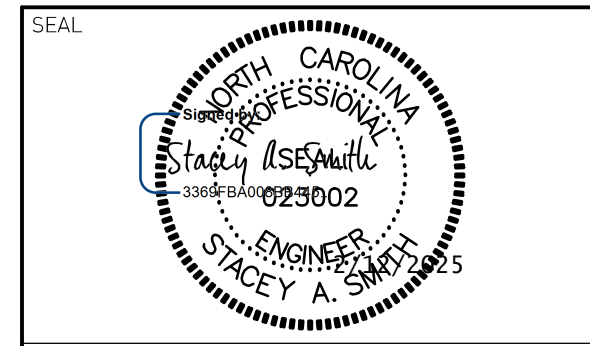
- REFERENCES**
- SITE TOPOGRAPHY DATED JANUARY 7, 2021 BY GEODATA CORPORATION, ZEBULON, NC. WITH UPDATED TOPOGRAPHY IN ACTIVE AREAS PREFROMED ON DEC. 6, 2022, BY SMITH GARDNER INC.
 - PERIMETER BOUNDARY INFORMATION DATED MAY 26, 2022 BY JOYNER KEENTY, FAYETTEVILLE, NC.
 - LANDFILL GAS WELL LOCATION PROVIDED 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.
 - MCNAMEE GAS TRANSMISSION LINE FROM SURVEY CONDUCTED BY SURVEYING SOLUTIONS OF YOUNGSVILLE, 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.



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

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REV.	DATE	DESCRIPTION
1	2/6/25	ADDENDUM 3
2	2/12/25	ADDENDUM 4

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

DRAWING TITLE:
UTILITY PLAN

DESIGNED	PROJECT NO.
J.D.B.	CUMBERLAND 22-1
DRAWN	SCALE
J.R.T.	AS SHOWN
APPROVED	DATE
S.A.S.	DEC. 2024
FILENAME	
CUMBERLAND-D0263	
SHEET NUMBER	DRAWING NUMBER
7	S6

FOR BIDDING
NOT FOR CONSTRUCTION

