

**ADDENDUM THREE
NORTH ST ELMO DRAINAGE SYSTEM STUDY AND UPGRADE
CONTRACT NUMBER S-09-008-201
CITY OF CHATTANOOGA, TENNESSEE**

The following changes shall be made to the Contract Documents, Specifications, and Drawings:

I. BIDDING REQUIREMENTS AND DOCUMENTS

1. Replace Contract Documents and Specifications page 00100-1 with 00100-1R1
2. Replace Contract Documents and Specifications page 00201-1 with 00201-1R1
3. Replace Contract Documents and Specifications, Appendix F "Soil and Groundwater Management Plan", Figure No. 2 with the attached Figure No. 2.

II. CONTRACT CLARIFICATIONS

1. **On sheet 21 and 21C in the plans the note for the Nitrogen Line calls for the line to be refilled with nitrogen; however, Appendix D in the specifications does not mention refilling the lines. Is the refilling of the lines done by Linde, Inc.?** Additional information regarding the pipelines that are associated with the Linde, Inc. facility will be released in a future addendum.
2. **Can Symon Forms be used for PIP Structures and the flat snap ties for Symons forms? Just want to make sure it meets the engineer's requirements for breakage depth of 2" in section 2.02 "Form Ties".** Form ties shall have a breakage depth of 2" into the concrete for plain steel ties or 1" into the concrete for stainless steel ties. The requirement that ties be of the snap cone or she-bolt with cone type may be waived as long as the proposed form tie can meet all other requirements of the specifications, including the breakage depth.
3. **General Note (49) states all concrete to be Class A 4000 PSI but on the bid tab states High Early Strength Concrete (3310-2, 3301-3 & 3301-4). Please verify.** General Note Number 49 requires all concrete to be Class A 4000 psi concrete unless otherwise noted on a drawing. Junction box note number 1 on sheet 08A requires all junction boxes to be poured with high early strength concrete. This includes JB-101, JB-102, and JB-103. High early strength concrete is used for these structures due to the time constraints for Phases 1, 2, and 3 of the contract.
4. **Sheet 07 of 28: Box Culvert Installation Note #7 states that a non-shrink hydraulic cement shall be installed on the box culvert joints on the inside face of the box culvert? Need clarification?** In addition to the butyl rubber gasket material, hydraulic cement shall be installed on the joints between the box culvert sections on the inside face of the box culvert and finished flush with the inside face of the box culvert to provide a smooth surface and help seal the joints to keep the hydraulic pressure in the box culvert from pushing water through the joint into the ground and from allowing groundwater from entering the box culvert through the joints. The concrete surface where the hydraulic cement is to be applied shall be clean and free of any debris or material which could negatively affect the bond between the hydraulic cement and the box culvert concrete surface.

5. **Sheet 15 and 16 – the plans depict installing a 78” Tunnel / Liner plate for both of the tunnels under NS railroad. In lieu of 78” Tunnel / Liner plate, would it be acceptable to upsize and install 87” Tunnel / Liner plate under both NS railroad crossings? NSCE-8 would be followed with respect to design and installation of the liner plates. The corresponding 60” and 66” carrier pipe would then be installed in each respective conveyance.** The Standard Pipe License Agreement for each railroad crossing is specific to installing a 78” tunnel. The City of Chattanooga will entertain the alternate for a larger tunnel size providing the following conditions are met:
- The contractor must, at his own expense, provide all documentation and fulfill all other requirements as required by Norfolk Southern Railroad to revise the Standard Pipe License Agreement to reflect the larger tunnel.
 - Norfolk Southern Railroad approves the larger tunnel alternate.
 - The larger tunnels are installed under respective bid items APPENDIX A-3 and APPENDIX A-5 at the bid price as listed in the bid schedule with no additional cost to the City of Chattanooga. Payment for bid items 001-2 and 002-2 will be based on excavation dimensions that would be required to install a 78” diameter tunnel, rather than the larger tunnel actually installed, multiplied by the actual tunnel length.
 - The additional time required for the larger tunnel alternate does not cause a delay to any phase of the construction schedule and the contractor can provide reasonable justification to the engineer as to why the increased tunnel size will not cause a delay to any phase of the construction schedule.
 - Construction of the larger tunnel does not increase the required time for railroad flagging and/or inspection services and the contractor can provide reasonable justification to the engineer as to why the increased tunnel size will not increase the required time for railroad flagging and/or inspection services prior to construction of the tunnels.
6. **Structural Plate Special Requirement: Structural plate pipe shall be galvanized in accordance with AASHTO M111 or ASTM A153 and have a bituminous coating in accordance with AASHTO M190? Typically bituminous coating only refers to AREMA requirements. Can you please give clarification on exactly which pipes, tunnels, etc. where bituminous coating is required?** See Addendum Two, Section III. ADDENDUM 1 CLARIFICATION, for additional information regarding the protective coating requirements for steel structural plate pipe and structural steel tunnel liner plates.
7. **Where can we stockpile material that we dig out from the ditch to be tested? Can we get a general idea of locations?** Figure No. 2 in Appendix F “Soil and Groundwater Management Plan” shows the available area for stockpiling soil. A revised Figure No. 2 is attached to this addendum.
8. **What size, gauge, type, etc. fencing goes in?** All new fence installed under this contract is only to replace existing fences that must be removed due to construction. The fences that are removed shall be replaced in like kind or better and shall include the repair and/or replacement, as necessary, for any security system components or other equipment which may be damaged or rendered inoperable by the fence removal. The contractor is encouraged to visit the site to determine the exact specifications for the fence(s) to be replaced. Additionally, the limits of fence removal and replacement must be approved by the resident project representative prior to removal.

9. **How did you calculate unclassified excavation? It doesn't appear to be near enough for the material that is to be excavated from the ditches.** Excavation for the ditches for which payment shall be made is based on the original surface and the final, completed surface of the ditch. This means that all additional excavation for installation of the gabions, gabion bedding material, gabion retaining walls and structural backfill, headwalls, etc. should be included in the cost of the respective bid item.
10. **If the water that we pump into a tank is too contaminated to take to sanitary sewer plant and disposed of, then what are we to do with the water?** Groundwater sampling has been completed on the project site as described in Appendix F "Soil and Groundwater Management Plan" of the contract documents and specifications. The test results for all groundwater samples showed maximum lead levels of 0.0256 ppm which is well below the allowed 1.5 ppm lead limit for the publicly owned treatment works (POTW) facility. Therefore, it is not anticipated that the groundwater will be too contaminated to discharge into the sanitary sewer system after pre-treatment for sediment and debris as outlined in Section 4.9 of the City of Chattanooga Best Management Practices Manual and the Storm Water Pollution Prevention Plan (SWPPP) as included in this contract. However, if the water is too contaminated to discharge into the sanitary sewer facility, the water can be discharged back into the ground at another area of the excavation. Additionally, the total amount of water discharged into the sanitary sewer system for the duration of the contract must be quantified and reported, in writing, to the project manager and a pre-treatment plan must be submitted to the POTW facility for approval prior to discharging water into the sanitary sewer system. The contaminate levels of the water to be discharged into the sanitary sewer system must also be reported, in writing, to the POTW facility for approval prior to discharging water into the sanitary sewer system.
11. **Are we able to pump water that enters the box culvert trench (that would be considered water that needs to be treated) into the sanitary sewer after it has been filtered?** Yes. See answer to question 10 above for additional details.
12. **I'd ask that you reconsider (allowing Big R Bridge to be an alternate supplier of structural plate culvert).** Alternate suppliers of structural plate culvert will be considered if the proposed alternate product meets or exceeds all requirements in the contract documents and specifications and the engineer can evaluate and approve the product without delaying the bid date. (See Contract Document and Specifications, Appendix C, Section 1.0 "General", Part 1.2, "Qualified Suppliers", Sub-part (c) regarding timeframe for submittals from alternate suppliers of structural plate culvert). Additionally, all potential structural plate culvert suppliers, including the supplier specified in the contract documents, must submit, in writing, documentation showing that their product is approved by TDOT for installation under TDOT owned roadways and rights-of-way. After submission of the TDOT approval documentation, the engineer will further evaluate the alternate product(s) for approval in this contract.

13. **Is there any (TDOT) State or Federal money provided for this project where T-2 certifications will be required?** No. This project is 100% funded by the City of Chattanooga.

A. **If yes, then all pipe per TDOT specifications must include gaskets and pipe to structure connections for all flexible pipe to catchbasins/junction boxes must be rubber boot connections. If boots are required some current structures designed in 120" Dia. Manholes will not work. In addition, the Hobas pipe would require a boot connection into the structures if we must follow TDOT specifications. Is this required?** Centrifugally Cast Fiberglass Reinforced Polymer Mortar Pipe (CCFRPMP) connections to manholes, junction boxes, catch basins, etc. shall be constructed in accordance with the pipe manufacturer's recommendations per the Contract documents and Specifications, Appendix A, Section A.08.

B. **If no, then do we need to follow TDOT guidelines even though TDOT structures are specified on plans. Can City of Chattanooga storm structures be used in lieu of TDOT?** The City of Chattanooga does not have standard structures that will accommodate the large diameter pipes used in this project; however, alternate structures will be considered but must meet the following requirements:

- a. Structures must be designed in accordance with the appropriate ASTM standard relevant to the subject structure type.
- b. Detail drawings for the alternate structures showing all dimensions, reinforcement, and other appropriate details, sealed by a professional engineer licensed in the State of Tennessee, shall be submitted to the project engineer for approval.
- c. The alternate structure must meet the intent of the plans and specifications, as determined by the project engineer.

14. **There is a note on the Drainage Structure schedule that states MH-200 & CB-200 are the only structures that will allow transition slabs to 48" Dia. Is this correct or can others follow these same guidelines?** There is no such note in the contract plans.

15. **On the sheet piling, how does it get measured for payment? Above ground or above and below ground?** The sheet piling area for payment will be the total area of sheet piling installed, above and below ground, as measured in the single vertical plane of each sheet pile run. Measurement for the length of the sheet pile run will not be made along the corrugations or other irregular shapes formed into the sheet pile panels. Additionally, the contractor will be required to submit the design documents from his engineer for the sheet pile shoring system to the resident project representative and the project manager.

III. ADDENDUM ONE CLARIFICATION

1. Since Addendum One was issued, new information has been acquired regarding the dialysis clinic foundation. As a revised response to question 14 in Addendum One, attached is a drawing depicting the foundation details for the dialysis clinic.

IV. DATE FOR SUBMISSION OF BID DOCUMENTS

1. The “Cost Criteria” requirement, or Bid, as stated in Section 00101 of the Contract Documents and Specifications, and all other required bid documents will be received by the City of Chattanooga at City Hall, Purchasing Department, Suite G13, located at 101 E. 11th Street, Chattanooga, TN 37402, until **2:00 p.m., local time**, on **Thursday, May 12, 2016**, and then at said place publicly opened and read aloud.
2. The “Schedule / Project Approach” and “Experience and Qualifications” requirements, as stated in Section 00101 of the Contract Documents and Specifications, will be received by the City of Chattanooga at City Hall, Purchasing Department, Suite G13, located at 101 E. 11th Street, Chattanooga, TN 37402, until **2:00 p.m., local time**, on **Monday, May 16, 2016**.

April 26, 2016

Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works

ADVERTISEMENT FOR BIDS

CITY OF CHATTANOOGA, TENNESSEE
OWNER

Separate sealed bids for furnishing all supervision, materials, labor, tools, equipment, and appliances necessary for the construction of the following described project, will be received by the City of Chattanooga at City Hall, Purchasing Department, Suite G13, located at 101 E. 11th Street, Chattanooga, TN 37402, until **2:00 p.m., local time**, on **Thursday, May 12, 2016**, and then at said place publicly opened and read aloud:

NORTH ST. ELMO DRAINAGE SYSTEM STUDY AND UPGRADE

CONTRACT NUMBER S-09-008-201

The scope of work shall consist of , but is not limited to the following:

Installing a new drainage system from the Walgreen's property near the intersection of St. Elmo Avenue and Broad Street to Gillespies Springs Branch to replace the existing, deteriorated culvert under the Wheeland Foundry Landfill. Other, smaller storm water systems which flow into the existing system under the landfill will be replaced and/or re-routed outside of the landfill limits.

The Contract Documents may be examined at the:

City of Chattanooga
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, TN 37402
bidinfo@chattanooga.gov
Phone Number: (423) 643-7230
Fax Number: (423) 643-7244

Specifications are available for pick up from 8:00 am until 4:30 pm, Monday through Friday. Copies of the Contract Documents may be purchased at the same location upon payment of \$100.00 per set; no part of the purchase price will be refunded.

A Pre-Bid Conference is scheduled for Thursday, April 14, 2016, at 9:00 A.M. local time, in the City of Chattanooga Development Resource Center, located at 1250 Market Street, Conference Room 1A, Chattanooga, TN 37402.

The bid amount will account for 50% of the overall qualifications evaluation for this project. In addition to the the bid evaluation, each proposal will be evaluated and scored based on the criteria and weighted point system set forth in Section 00101 "Evaluation Criteria".

All bidders must be licensed and shall comply with all requirements of the State of Tennessee Contractor's Licensing Act.

SECTION 00201

CONTRACTOR'S IDENTIFICATION
(ALL BLANKS MUST BE FILLED. USE N/A AS NECESSARY)

This form shall be attached to the sealed envelope containing the Bid. All prime contractors and contractors for electrical, plumbing, and heating, ventilation, and air conditioning contracts for bids of \$25,000 or more and/or masonry items for \$100,000 or more are required to complete this form pursuant to TCA 62-6-119. Failure to provide all of this information on the sealed envelope shall be considered a non-responsive Bid and shall not be opened or shall automatically disqualify such bid.

BIDDER:

Complete the following for all applicable Electrical, Plumbing, Masonry and Heating, Ventilation, and Air Conditioning Subcontractors: Prime Contractor must fill in space below when performing Electrical, Plumbing, or Heating, Ventilation, and Air Conditioning Sub-Contractor work for any bids of \$25,000 or more; and for Masonry for any bids of \$100,000 for more:

Name: _____

Subcontractor: _____

Address: _____

Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

If TaxID Number (TIN) issued, list below. Otherwise, list Owner's Social Security Number (SSN).

TaxID Number: _____

Subcontractor: _____

Tennessee License No.: _____

Tennessee License No.: _____

License Registration Date: _____

License Expiration Date: _____

License Expiration Date: _____

License Classification: _____

Monetary Limit: _____

_____ (\$ _____)

Subcontractor: _____

Classification : _____

Tennessee License No.: _____

License Expiration Date: _____

License Classification: _____

CITY OF CHATTANOOGA
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, Tennessee 37402

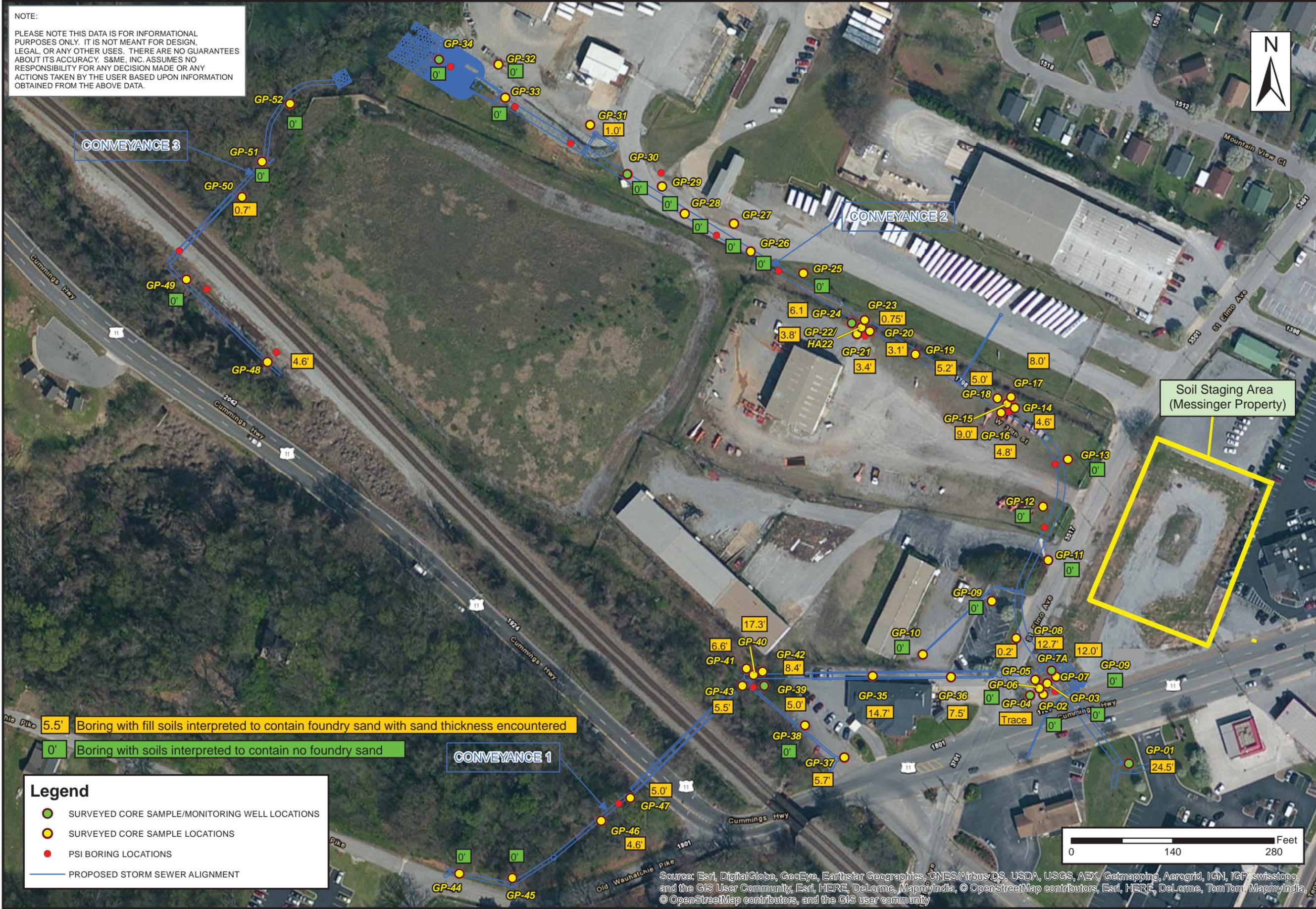
SEALED BID PROPOSAL FOR :
North St. Elmo Drainage System Study and Upgrade
Contract Number: S-09-008-201

DATE OF BID OPENING: **Thursday, May 12th, 2016**

LOCATION: City Hall, Purchasing Department
101 E. 11th Street
Suite G13
Chattanooga, TN 37402

TIME: 2:00 p.m.

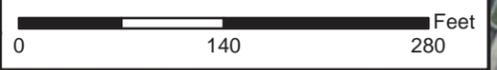
NOTE:
PLEASE NOTE THIS DATA IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON INFORMATION OBTAINED FROM THE ABOVE DATA.



5.5' Boring with fill soils interpreted to contain foundry sand with sand thickness encountered
0' Boring with soils interpreted to contain no foundry sand

Legend

- SURVEYED CORE SAMPLE/MONITORING WELL LOCATIONS
- SURVEYED CORE SAMPLE LOCATIONS
- PSI BORING LOCATIONS
- PROPOSED STORM SEWER ALIGNMENT



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus/DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

DATE: 08-28-2015
DRAWN BY: JPR
CHECKED BY: JRB

SCALE: AS SHOWN
PROJECT NO: 4143-15-038

BORING LOCATION AND FOUNDRY SAND THICKNESS MAP
ST ELMO DRAINAGE IMPROVEMENT PROJECT
ST ELMO STREET
CHATTANOOGA TENNESSEE

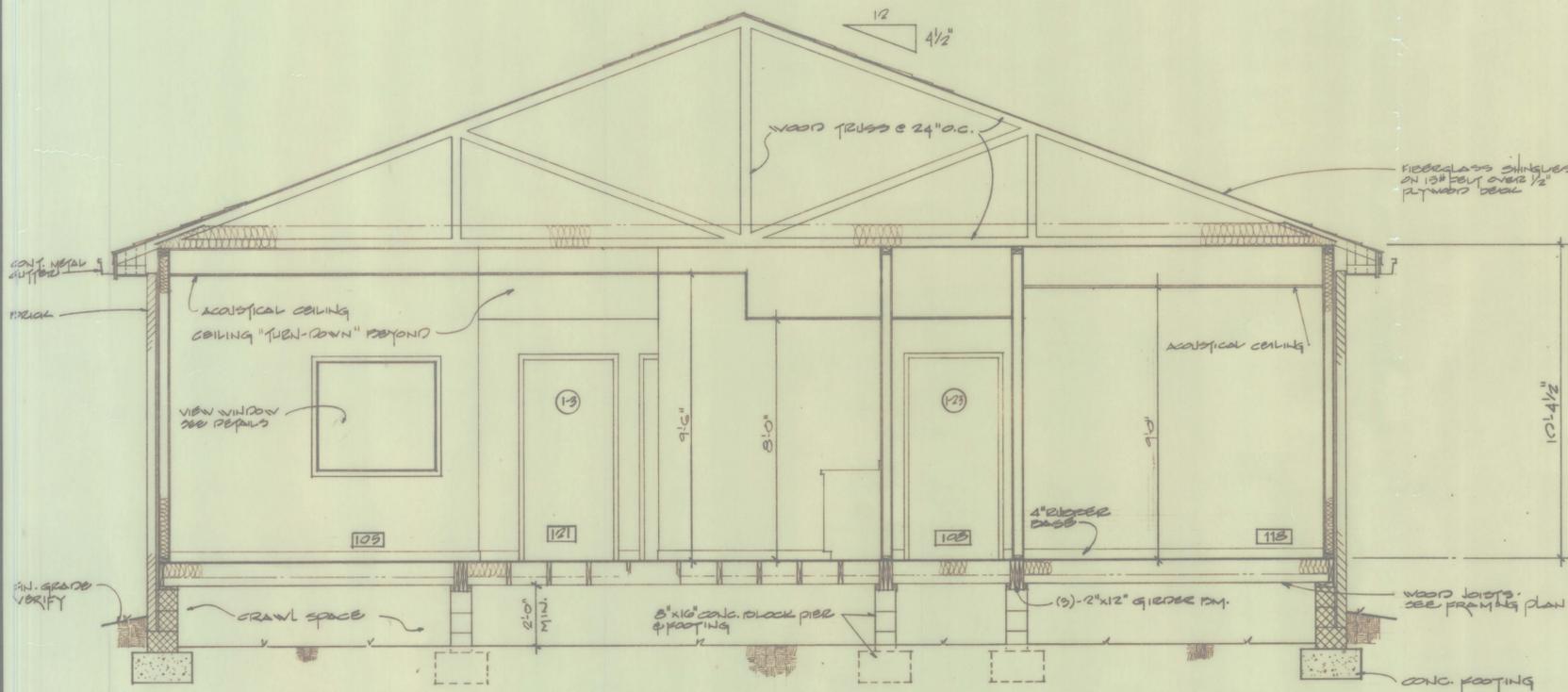
FIGURE NO.
2

STRUCTURAL NOTES

- ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- REINFORCING STEEL SHALL MEET THE STANDARDS OF A.S.T.M. A615-82(S1) GRADE 60.
- WIRE MESH SHALL CONFORM TO A.S.T.M. A185-79.
- WOOD CONSTRUCTION SHALL COMPLY WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (LATEST EDITION) AS PUBLISHED BY THE "NATIONAL FOREST PRODUCTS ASSOCIATION."
- WOOD DESIGN SHALL BE BASED ON NO. 2 SOUTHERN YELLOW PINE, $F_b = 1400$ P.S.I. FOR REPETITIVE MEMBER USE.
- ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

| | |
|----------------|----------------------------|
| ROOF LIVE LOAD | 20 LBS. P.S.F. |
| ROOFING | 4 LBS. P.S.F. |
| DECK | 2 LBS. P.S.F. |
| INSULATION | 3 LBS. P.S.F. |
| CEILING | 10 LBS. P.S.F. |
| TOTAL | 39 LBS. PER SQ. FT. |

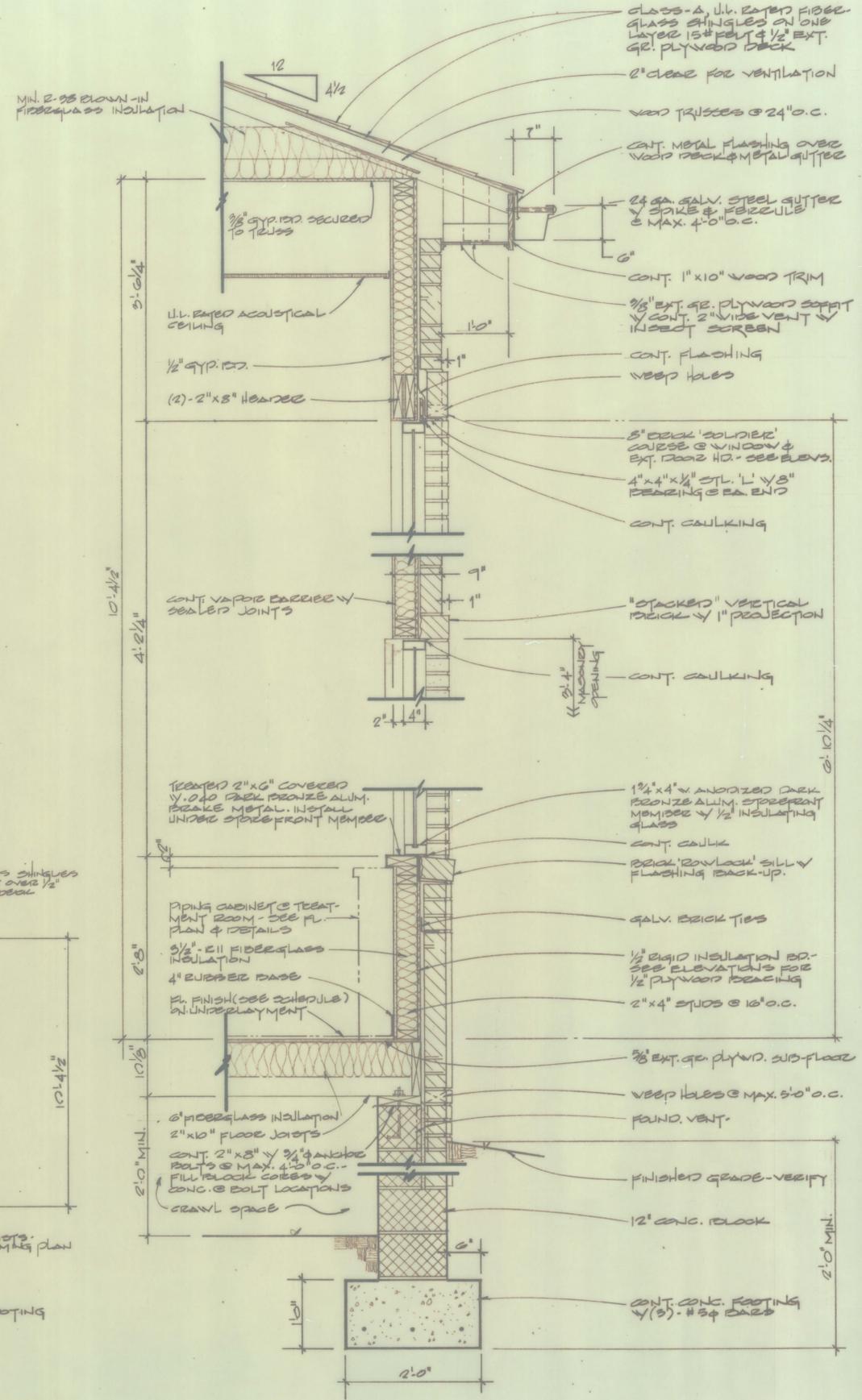
 PLUS WEIGHT OF ROOF TRUSSES
- ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE STANDARD BUILDING CODE.
- DESIGN SOIL BEARING PRESSURE IS 2,000 LBS. P.S.F.



CROSS SECTION

SCALE: 3/8" = 1'-0"

2
A-1



WALL SECTION

SCALE: 1" = 1'-0"

1
A-1

WILLIAM VICK & ASSOC., INC.
CONSULTING ENGINEERS
NASHVILLE, TENNESSEE

| REVISION | DATE | BY |
|----------|------|----|
| | | |
| | | |
| | | |
| | | |

DIALYSIS CLINIC
SOUTH BROAD STREET
CHATTANOOGA, TENNESSEE

DIALYSIS CLINIC, INC.
NASHVILLE, TENNESSEE



| | |
|---------|----------|
| DRAWN | CE-S |
| CHECKED | |
| DATE | 10-30-87 |
| SCALE | AS NOTED |
| JOB NO. | 572A |
| SHEET | |

A-5

OF SHEETS