

ADDENDUM 3

November 30, 2018

WET WEATHER COMBINED SEWER STORAGE – PHASE 1

CONTRACT NO. W-17-004-101

CITY OF CHATTANOOGA, TENNESSEE

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

Project Manual – Volume I

1. Section 00 41 00, Bid Form

Replace: Section 00 41 00 Bid Form in its entirety

With: Revised Section 00 41 00 Bid Form (attached) with line items in Part 1: Base Bid 4.b and Bid Alt. No. 1 2.b. updated.

2. Section 00 80 00, Wage Rate General Decision

Add: 00 80 00 Wage General Decision TN20170089, dated 11/02/2018 (Building)

Project Manual – Volume II

3. Section 31 08 13, Pile Load Tests, Part 1.04

Replace: A. Pile load tests shall conform with the 2012 International Building Code and these Specifications. Where the requirements of the Specifications are more rigorous, they shall be adhered to. For compressive load test the type of method utilized (static or dynamic) shall be as recommended by the registered design professional overseeing the testing.

With: A. Pile load tests shall conform with the 2012 International Building Code and these Specifications. Where the requirements of the Specifications are more rigorous, they shall be adhered to. For compressive load tests, the first compressive load test at each Equalization Tank shall be a static test. The second compressive load test at each Equalization Basin shall be of a method (static or dynamic) as recommended by the registered design professional overseeing the testing.”

Additional Information

- a. 00 80 00 Wage General Decision TN20170089, dated 11/02/2018, (attached).
- b. Both Heavy and Building Construction Types are part of the contract documents. In general, the Building determination should be used for the Electrical Building and associated components, and the Heavy determination should be used for the remaining parts of the contract. It shall be the contractor's responsibility to choose the appropriate type, rate, and fringe for the laborers onsite each day.

Drawings (attached)

1. Replace: M100 Rev 3 Bid Set sheet
With: M100 Rev 4 Addendum 3 sheet
2. Replace: M101 Rev 3 Bid Set sheet
With: M100 Rev 4 Addendum 3 sheet
3. Replace: M300 Rev 3 Bid Set sheet
With: M300 Rev 4 Addendum 3 sheet

Questions/Responses

Deadline to submit questions is midnight Sunday, December 2. Any received after that will not be answered.

1. **Question:** Please confirm whether the compression load tests for the micropiles are to be Dynamic or Static.
Answer: Refer to Item 3 under Project Manual – Volume II above.
2. **Question:** Please provide applicable Davis-Bacon wage rates and fringe benefits for the following labor classifications: Roofer, Painter, Cement Mason, Sheetmetal Worker
Answer: Refer to Additional Information item b above for reference to Wage Determinations.
3. **Question:** Please applicable Davis-Bacon wage rates and fringe benefits for the following labor classifications: Plumber, Form Setter, Iron Worker
Answer: Refer to Additional Information item b above for reference to Wage Determinations.
4. **Question:** Sheet M300 includes a micropile schedule for Tanks 1, 2, and 3. For Tanks 2 and 3, the “Estimated pile length to top of rock (ft) is shown to be 51.75 feet, and the “Estimated total length of pile group to top of rock (ft) is shown to be 24,426 feet for each tank.

The “Top of pile elevation (max)” is shown to be 666.75 and the “Estimated top of rock elevation is shown to be 620.00, which would make the “Estimated Pile length to top of rock” 46.75 feet for each pile, and the “Estimated total length of pile group to top of rock” 22,066 LF for each Tank.

Please Clarify the correct information for the micropiles.

Additionally, it appears the footage of micropile in the rock socket is not included in the estimated quantities shown in the bid form. Is this correct? Is this how the measurement for payment purposes will be handled?

Answer: Refer to the revised M300 sheet and Bid Form (attached) with updated quantities. The cost for the length of the plunge and rock socket shall be incorporated into the vertical foot unit cost of micropile from the structure to top of rock. There will be no separate payment for plunge or rock socket length.

5. **Question:** On sheet A400, Note 2 (and on sheet P400) indicate the owner is seeking deletion of the restroom from the project. Is the base bid to include the restroom and related features? If no, please provide revised Plumbing, HVAC, and Electrical drawings that reflect this change.

Answer: The base bid shall include a completed and functional restroom as indicated in the plans and specifications. However, the Contractor should be prepared to provide the Owner a credit should the restroom and associated appurtenances be omitted after the contract has been awarded.

6. **Question:** Per Section 09 90 00, Page 11, Table 9-1 indicates exterior concrete and masonry surfaces (if interior is dry) are to be waterproof coated per Section 07 13 50. Section 07 13 50 is not included in the project documents. Please confirm the requirement for waterproofing, and provide applicable specifications

Answer: Row 5 of Table 9-1 Painting Schedule list the Surface to be “Exterior below grade if interior is dry”. Below grade exterior concrete and masonry walls are not required to be waterproofed.

7. **Question:** Section 31 08 13, Article 2.04, Pertains to “Pile Uplift Load Tests”. However, no uplift (tension) load information is found in the drawings. The drawings indicate the piles should be developed to a minimum compression allowable load of 250kips (500 kips ultimate), and a minimum lateral allowable load of 20 kips (40 kips ultimate). Nothing is shown for tension loads. Please confirm there will be no uplift (tensile) loading in the piles, and no uplift load tests will be required.

Answer: Tension Piles are not needed therefore no tension load tests will be required.

Supplemental Information by Others

NA

November 30, 2018

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

**CHATTANOOGA WET WEATHER COMBINED SEWER STORAGE – PHASE 1
CONTRACT NUMBER W-17-004-101**

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

City of Chattanooga, Tennessee
Purchasing Department
101 E. 11th Street, Suite G13
Chattanooga, Tennessee 37402

1.02 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.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for period of time after the Bid opening as stated in the Advertisement for Bids, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

| <u>Addendum No.</u> | <u>Addendum Date</u> |
|---------------------|----------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

B. Bidder has visited the Site 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.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in SC-4.02 as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable "technical data."
- E. Bidder has considered the information known to Bidder; 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 Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.01.E above, Bidder does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. 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.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- J. Where this Bid Form contains the provision for a bid based on a lump sum price, the Bidder shall be responsible for having prepared its own estimate of the quantities necessary for the satisfactory completion of the Work specified in these Contract Documents and for having based the lump sum price bid on its estimate of quantities.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. 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;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

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;
2. "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;
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.

ARTICLE 5 – BASIS OF BID

5.01 Refer to Section 01 22 00, Measurement and Payment, for pay item descriptions. Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

*** PART 1: BASE BID ***

| Item No. | Description | Est. Qty. | Unit | Unit Price | Total Price |
|----------|--|-----------|----------|------------|-------------|
| 1. | Wet Weather Combined Sewer Storage Facility: Furnish all products, materials, equipment, appurtenances, and perform all labor necessary to complete the work and make fully operable as indicated on the Drawings and/or in the specifications other than that specifically listed in the line items below. | | Lump Sum | | \$ |
| 2. | Mobilization and General Conditions | | Lump Sum | | \$ |
| 3. | Bonds and Insurance | | Lump Sum | | \$ |
| 4.a | Load Testing for Micropiles | | Lump Sum | | \$ |
| 4.b | Micropiles, 7.5" O.D. per M300 detail, Vertical Length per Structural Drawing Schedules | 48,852 | VF | \$ | \$ |
| 4.c | Micropiles, 7.5" O.D. per M300 detail, (Additional Vertical Length if needed per subsurface conditions) | 12,000 | VF | \$ | \$ |
| 5. | Prestressed Concrete Tank 1, Foundation, and all Appurtenances for a complete installation | | Lump Sum | | \$ |
| 6. | Prestressed Concrete Tank 2, Foundation Slab, and all Appurtenances for a complete installation | | Lump Sum | | \$ |

| Item No. | Description | Est. Qty. | Unit | Unit Price | Total Price |
|----------|--|-----------|-----------|------------|-------------|
| 7. | Engine Generator w/belly fuel tank and all Appurtenances for a complete installation | | Lump Sum | | \$ |
| 8. | Prestressed Concrete Tanks and CSSPS Odor Control System and all Appurtenances from each discipline for a complete installation. Conduits/Duct Banks required shall be included in Item 1. | | Lump Sum | | \$ |
| 9. | Diversion Structure Odor Control System and all Appurtenances from each discipline for a complete installation. Conduits/Duct Banks required shall be included in Item 1. | | Lump Sum | | \$ |
| 10. | Field Office, Use Existing Building or Provide Trailers, (circle one) | 20 | Month | \$ | \$ |
| 11. | Asphalt Surface Course, 1.5" | 1,100 | Ton | \$ | \$ |
| 12. | Asphalt Base Course, 2" | 1,300 | Ton | \$ | \$ |
| 13. | Crushed Stone Road Base, 6" | 3,900 | Ton | \$ | \$ |
| 14. | Polyolefin Coated Chain Link Fence w/3-strands of barb and all Appurtenances for a complete installation | 2,400 | LF | \$ | \$ |
| 15. | Slats (Black) for Polyolefin Coated Chain Link Fence surrounding Diversion Structure. Approx. 300 LF of fence. | | Lump Sum | | \$ |
| 16. | Polyolefin Coated Chain Link Double Swing Gate – 15 ft | | Lump Sum | | \$ |
| 17. | Polyolefin Coated Chain Link Double Slide Gate – 20 ft | | Lump Sum | | \$ |
| 18. | Polyolefin Coated Chain Link Double Slide Gate (motorized) – 25 ft | | Lump Sum | | \$ |
| 19. | Erosion Prevention and Sediment Control Installation and Maintenance | | Lump Sum | | \$ |
| 20. | Permanent Seeding, Fertilizer, and Straw Mulch | 10 | Acre | \$ | \$ |
| 21. | Contaminated Soil Removal and Hauled to Landfill | 6,000 | Tons | \$ | \$ |
| 22. | Trench Stabilization Stone and Undercut (if directed by Engineer) | 500 | Tons | \$ | \$ |
| 23. | Materials Testing | | Allowance | | \$100,000 |
| 24. | City of Chattanooga Stormwater Quality Permitting Requirements | | Allowance | | \$100,000 |
| 25. | Site Landscaping | | Lump Sum | | \$ |

PART 1 BASE BID TOTAL, ITEMS 1 THROUGH 25, INCLUSIVE, THE AMOUNT OF _____

 _____ DOLLARS (\$_____).

*** * * PART 2 ALTERNATE NO. 1 * * ***

| Item No. | Description | Est. Qty. | Unit | Unit Price | Total Price |
|----------|---|-----------|----------|------------|-------------|
| 1. | Prestressed Concrete Tank-3, Base Slab, and all Appurtenances for a complete installation | | Lump Sum | | \$ |
| 2.a | Load Testing for Micropiles for Tank-3 | | Lump Sum | | \$ |
| 2.b | Micropiles, 7.5" O.D. per M300 detail, Vertical Length per Structural Drawing Schedules | 22,066 | VF | \$ | \$ |
| 2.c | Micropiles, 7.5" O.D. per M300 detail, (Additional Vertical Length if needed per subsurface conditions) | 6,000 | VF | \$ | \$ |

ADD FOR PART 2 ALTERNATE NO. 1, PRESTRESSED CONCRETE TANK 3, LINE ITEMS 1 THROUGH 2C, FOUNDATION SLAB, AND ALL APPURTENANCES FOR A COMPLETE INSTALLATION AS SPECIFIED IN SECTION 33 16 32, PRESTRSSED CONCRETE TANK (TYPE II) AND AS SHOWN ON DRAWINGS, THE AMOUNT OF

_____ DOLLARS (\$_____).

*** * * PART 3 ALTERNATE NO. 2 * * ***

ADD FOR PART 3 ALTERNATE NO. 2 CSSPS MONORAIL HOIST WITH APPURTENANCES AS SPECIFIED IN SECTION 41 22 23, HOISTS, AND AS SHOWN ON DRAWINGS, THE AMOUNT OF

_____ DOLLARS (\$_____).

*** * * PART 4 ALTERNATE NO. 3 * * ***

ADD FOR PART 4 ALTERNATE NO. 3 680 LF of 36-INCH DI FORCEMAIN WITH APPURTENANCES AS SHOWN ON C411 AND SPECIFIED IN SECTION 45 05, THE AMOUNT OF

_____ DOLLARS (\$_____).

BID TOTAL (Completed by Owner)

PART 1 BASE BID AND ALTERNATES SELECTED: 1 2 3 (circle items selected)

_____ DOLLARS (\$_____).

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.01 The following documents are submitted with and made a condition of this Bid:
- A. Statement of Bidders Qualifications
 - B. Affidavit of No Collusion by Prime Bidder
 - C. Drug-Free Workplace Affidavit
 - D. Iran Divestment Act Compliance Certification
 - E. Attestation Regarding Personnel Used in Contract Performance
 - F. Certification By Proposed Prime or Subcontractor Regarding Equal Employment Opportunity
 - G. Certification Regarding Debarment, Suspension and Other Responsibility Matters

ARTICLE 8 – DEFINED TERMS

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

Attest: _____
(Notary)

Name (typed or printed): _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner – attach evidence of authority to sign)

Name (typed or printed): _____

Attest: _____
(Signature of another Partner)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____
(Signature)

Name (typed or printed): _____

Title: _____
(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Name (typed or printed): _____

Date of Qualification to do business in Tennessee is _____

A Joint Venture

Name of Joint Venturer: _____

First Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of first joint venture partner)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____
(Signature of second joint venture partner)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

All Bidders shall complete the following:

Bidder's Business address: _____

Phone: _____ Facsimile: _____

Primary Contact: _____

E-mail: _____

Submitted on _____, 201__.

State Contractor License No. _____.

This document was prepared in part from material (EJCDC C-410 Suggested Bid Form for Construction Contracts) which is copyrighted as indicated below:

Copyright © 2007 National Society of Professional Engineers
1420 King Street, Alexandria, VA 22314-2794
(703) 684-2882
www.nspe.org

American Council of Engineering Companies
1015 15th Street N.W., Washington, DC 20005
(202) 347-7474
www.acec.org

American Society of Civil Engineers
1801 Alexander Bell Drive, Reston, VA 20191-4400
(800) 548-2723
www.asce.org

Associated General Contractors of America
2300 Wilson Boulevard, Suite 400, Arlington, VA 22201-3308
(703) 548-3118
www.agc.org

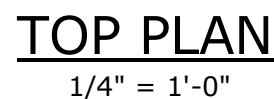
The copyright for this EJCDC document is owned jointly by the four EJCDC sponsoring organizations and held in trust for their benefit by NSPE

- 1 CONSTRUCT DIVERSION STRUCTURE AROUND
EXISTING 84" INTERCEPTOR. SEE NOTES 2 AND 4
- 2 INSTALL WEIR GATE AND STOP LOG FRAME.
- 3 CONCRETE FILL AS SHOWN.
- 4 CUT OUT AND REMOVE ENTIRE PIPE AT STOP LOG
FRAME.
- 5 CUT OUT AND REMOVE TOP SECTION OF EXISTING
INTERCEPTOR. SEE NOTE 3.
- 6 INSTALL STOP LOGS.
- 7 FLOW WILL BE DIVERTED TO THE PUMP STATION AFTER
STOP LOGS ARE INSTALLED. CUT OUT AND REMOVE
ENTIRE PIPE BETWEEN WALLS AT SLIDE GATE G-1000.
- 8 INSTALL 84" SLIDE GATE AND GROUT TO INVERT.
- 9 REMOVE STOP LOGS AND CONSTRUCT BAFFLES AND
BAR RACK MOUNTING WALL.
- 10 INSTALL BAR RACK.

1. CERTAIN FEATURES ARE INCLUDED IN THE DESIGN OF THE DIVERSION STRUCTURE TO FACILITATE CONSTRUCTION OF THE FACILITY WITHOUT THE NEED TO BYPASS PUMP THE 84" INTERCEPTOR FLOW AROUND THE WORK SITE. A SUGGESTED SEQUENCE OF CONSTRUCTION IS PROVIDED ON THIS SHEET FOR CONTRACTOR CONSIDERATION TO ACCOMPLISH THE WORK. CONTRACTOR MAY CHOOSE TO BYPASS PUMP OR CHOOSE AN ALTERNATE SEQUENCE TO CONSTRUCT THE DIVERSION STRUCTURE AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS AND SEQUENCING TO MANAGE THE INTERCEPTOR FLOW AND CONSTRUCT THE FACILITY. CONTRACTOR SHALL SUBMIT A DETAILED SEQUENCE OF CONSTRUCTION PLAN FOR APPROVAL PRIOR TO STARTING CONSTRUCTION OF THE DIVERSION STRUCTURE.

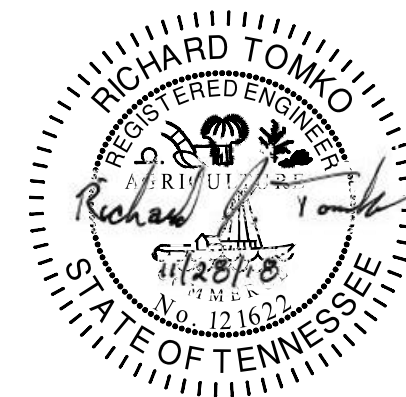
2. WHEN CONSTRUCTING DIVERSION STRUCTURE AROUND EXISTING 84" INTERCEPTOR, WATERTIGHTNESS TESTING AND BACKFILLING PROCEDURES SHALL BE AS FOLLOWS:
 - A. CONSTRUCT STRUCTURE UP TO WALL CJ AT EL 658.00.
 - B. 84" INTERCEPTOR SHALL BE SECURED TO PREVENT BOUYANT CONDITION DURING WATERTIGHTNESS TESTING.
 - C. PRIOR TO BACKFILLING ADJACENT TO WALLS AND BOTTOM SLAB, WATERTIGHTNESS TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIOIN SECTION 01 88 16 - WATERTIGHTNESS TESTING OF CONCRETE STRUCTURES ARTICLE 3.02 PARAGRAPH C. DESIGN MAXIMUM WATER EL 645.00.
 - D. UPON PASSING WATERTIGHTNESS TEST, BACKFILLING OPERATIONS CAN PROCEED TO EL 654.00.
 - E. CONSTRUCT REMAINING WALLS AND ROOF AND FRAMING.
 - F. FINAL BACKFILLING MAY BE PERFORMED.

3. THE AVERAGE DRY WEATHER WATER LEVEL INSIDE OF THE 84-INCH INTERCEPTOR IS APPROXIMATELY 2.3 FT DEEP AT THE CENTER OF THE PIPE.
4. CONTRACTOR SHALL EXPOSE PIPE AND IDENTIFY LOCATIONS OF EXISTING PIPE JOINTS RELATIVE TO THE NEW DIVERSION STRUCTURE. DEPENDING ON PIPE JOINT LOCATIONS, THE DIVERSION STRUCTURE MAY BE MOVED A COUPLE FEET TO AVOID CASTING A NEW WALL ON AN EXISTING PIPE JOINT.
5. GATE FRAME SHALL ANCHOR TO THE EDGE OF CONCRETE OPENING IN THE TOP SLAB, PROVIDE YOKE 1/4" LOWER THAN TOP OF SLAB FOR CHECKERED PLATE SUPPORT.
6. PIPE ALIGNMENT IS ESTIMATED BASED OFF RECORD DRAWINGS FOR THE INTERCEPTORS. CONTRACTOR SHALL VERIFY DIMENSION BETWEEN THE INTERCEPTORS AND PROVIDE DIMENSION TO THE ENGINEER.
7. PROVIDE TEMPORARY 10" RS CONNECTION TO EXISTING MANHOLE ON THE 60" RS INTERCEPTOR. PLUG TEMPORARY MANHOLE CONNECTION AFTER 10" RS IS CONNECTED TO THE DIVERSION STRUCTURE.
8. PROVIDE DROP CONNECTION FOR 10" RS PER CITY OF CHATTANOOGA STANDARD DETAIL SD-302.01.
9. DEFLECT 10" RS TO CONNECT TO THE DIVERSION STRUCTURE. PROVIDE A SOLID SLEEVE COUPLING IF NECESSARY TO CLOSE THE PIPE.
10. ALL DISTURBED MANHOLE JOINTS FOR THE 60" AND 84" MANHOLES SHALL BE SEALED WITH JOINT WRAPS AS SPECIFIED IN SECTION 33 05 61.



BOTTOM PLAN
1/4" = 1'-0"


Hazen
HAZEN AND SAWYER
1200 W. MARTIN LUTHER KING BLVD.,
SUITE 1000
CHATTANOOGA TN 37402



BID SET

WET WEATHER COMBINED SEWER
STORAGE - PHASE 1
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM

[illegible]

THIS LINE  IS ONE INCH
LONG WHEN PLOTTED FULL SCALE

THIS DRAWING MUST BE USED IN CONJUNCTION
WITH THE APPLICABLE OR GOVERNING TECHNICAL
SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS

PROJECT NO: 50037-007

DATE: NOVEMBER - 2018

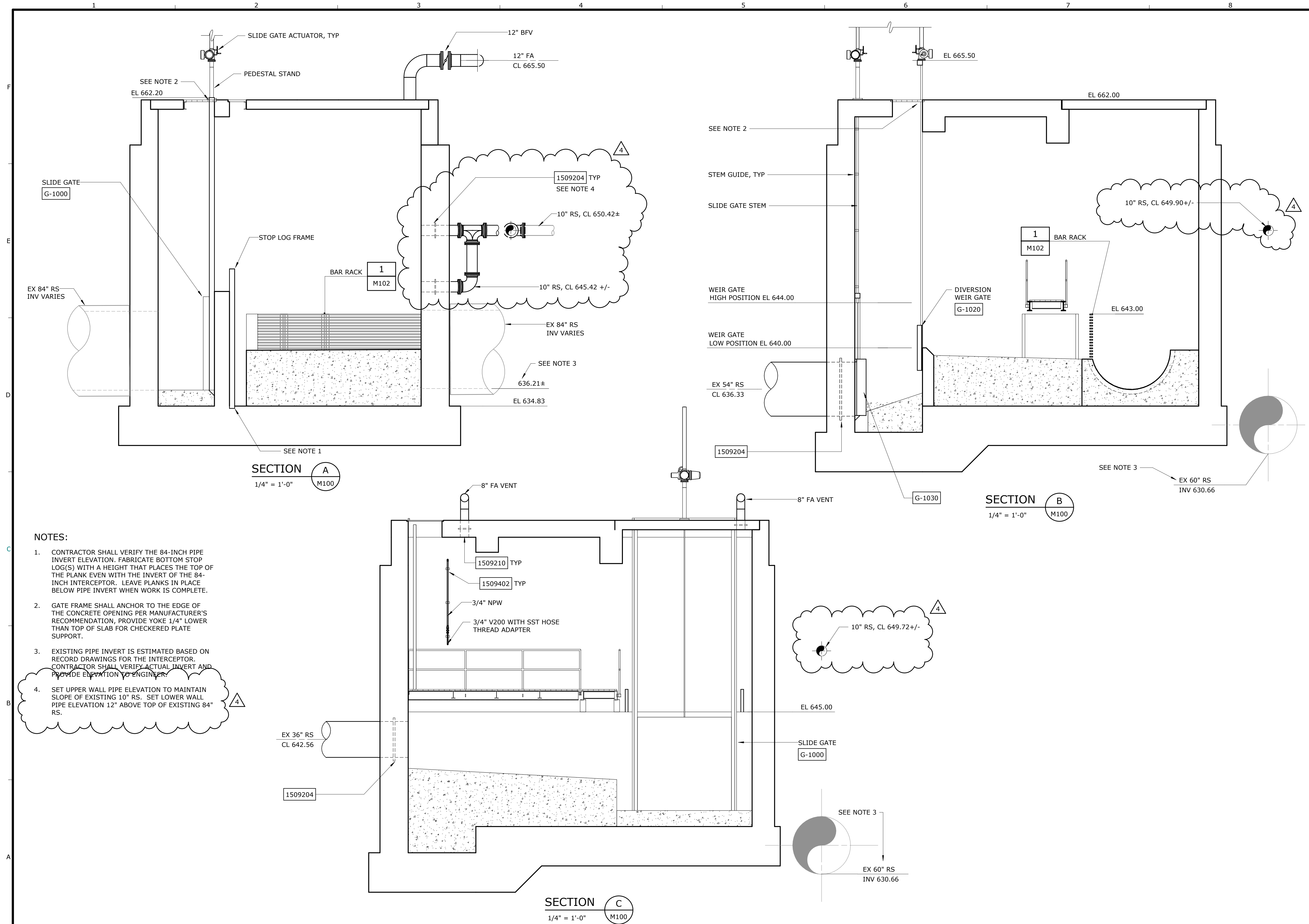
| | |
|------------|-----------|
| DISC LEAD: | DESIGNER: |
|------------|-----------|

SHEET TITLE

DIVERSION STRUCTURE MECHANICAL PLANS

| | |
|-------|------|
| SHEET | M100 |
|-------|------|

C:\Users\aalvarez\Documents\Revit Project Backups\50037-007-100-DVC-M_aalvarez78.rvt
11/29/2018 6:07:23 AM



Hazen

HAZEN AND SAWYER
200 W. MARTIN LUTHER KING BLVD.,
SUITE 1000
CHATTANOOGA TN 37402



BID SET

WET WEATHER COMBINED SEWER
STORAGE - PHASE 1
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



| REV | DATE | REVISION DESCRIPTION |
|-----|---------|--------------------------------|
| 4 | 11/2018 | ADDENDUM 3 |
| 3 | 11/2018 | BID SET |
| 2 | 09/2018 | 100% CITY LDO SUBMITTAL |
| 1 | 09/2018 | 100% CITY LDO SUBMITTAL REVIEW |

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE.

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 50037-007

DATE: NOVEMBER - 2018

| | | |
|-------------|-----------|----------|
| DISC. LEAD: | DESIGNER: | CHECKER: |
| RJT | AA | RJT |

SHEET TITLE

DIVERSION
STRUCTURE
MECHANICAL
SECTIONS

SHEET M101

General Decision Number: TN180089 11/02/2018 TN89

Superseded General Decision Number: TN20170089

State: Tennessee

Construction Type: Building

County: Hamilton County in Tennessee.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 01/05/2018 |
| 1 | 02/09/2018 |
| 2 | 04/27/2018 |
| 3 | 06/01/2018 |
| 4 | 11/02/2018 |

BOIL0454-001 03/01/2018

| | Rates | Fringes |
|------------------|----------|---------|
| Boilermaker..... | \$ 30.07 | 21.61 |

CARP0074-003 05/01/2017

| | Rates | Fringes |
|---|----------|---------|
| CARPENTER (Including Form Work (Excluding Acoustical Ceiling Installation)..... | \$ 20.80 | 11.26 |

ELEC0175-010 06/01/2018

| | Rates | Fringes |
|------------------|----------|------------|
| ELECTRICIAN..... | \$ 31.59 | 14.5%+7.35 |

ENGI 0917-019 05/01/2017

| | Rates | Fri nges |
|---------------------------|----------|----------|
| OPERATOR: Power Equipment | | |
| Crane. | \$ 28.26 | 10.10 |
| Forkl i ft. | \$ 25.97 | 10.10 |
| Grader/Bl ade. | \$ 25.97 | 10.10 |

* IRON0704-006 05/01/2018

| | Rates | Fri nges |
|---|----------|----------|
| IRONWORKER, STRUCTURAL AND REINFORCING. | \$ 27.00 | 15.47 |

PLUM0043-004 07/01/2017

| | Rates | Fri nges |
|---|----------|----------|
| PIPEFITTER (Including HVAC Pipe Installation)..... | \$ 29.32 | 10.83 |

PLUM0043-005 07/01/2017

| | Rates | Fri nges |
|--|----------|----------|
| PLUMBER (Excl udi ng HVAC Pipe Installation)..... | \$ 29.32 | 10.83 |

SHEE0005-009 06/01/2017

| | Rates | Fri nges |
|--|----------|----------|
| SHEET METAL WORKER (Including Metal Building Erector(Metal Siding/Wall Panels), HVAC Duct Installation and Metal Roof Installation)..... | \$ 25.09 | 11.83 |

SUTN2009-087 09/21/2009

| | Rates | Fri nges |
|--|----------|----------|
| BRICKLAYER. | \$ 20.00 | 0.80 |
| CARPENTER (Acoustical Ceiling Installation Only)..... | \$ 17.43 | 2.25 |
| CEMENT MASON/CONCRETE FINISHER... \$ | 17.55 | 1.57 |
| LABORER: Common or General..... \$ | 11.47 | 5.12 |
| LABORER: Landscape..... \$ | 10.67 | 0.89 |
| LABORER: Mason Tender - Brick... \$ | 10.00 | 0.80 |
| LABORER: Roof Tearoff..... \$ | 9.75 | 0.49 |

OPERATOR:

| | | |
|----------------------------------|----------|------|
| Backhoe/Excavator/Trackhoe..... | \$ 18.90 | 7.53 |
| OPERATOR: Bobcat/Skid | | |
| Steer/Skid Loader..... | \$ 17.53 | 0.00 |
| OPERATOR: Bulldozer..... | \$ 18.90 | 7.53 |
| OPERATOR: Mechanic..... | \$ 18.66 | 3.39 |
| OPERATOR: Paver (Asphalt, | | |
| Aggregate, and Concrete)..... | \$ 13.50 | 0.00 |
| OPERATOR: Roller..... | \$ 13.98 | 0.00 |
| PAINTER: Spray..... | \$ 14.30 | 0.00 |
| ROOFER: Built up Roof..... | \$ 12.74 | 0.00 |
| ROOFER: Rubber Roof..... | \$ 15.73 | 0.00 |
| ROOFER: Single Ply Roof..... | \$ 16.50 | 0.32 |
| TILE FINISHER..... | \$ 10.00 | 0.74 |
| TRUCK DRIVER: Dump Truck..... | \$ 12.56 | 0.00 |
| TRUCK DRIVER: Material Truck.... | \$ 16.50 | 1.95 |
| TRUCK DRIVER: Pickup Truck..... | \$ 11.70 | 3.92 |

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in

the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

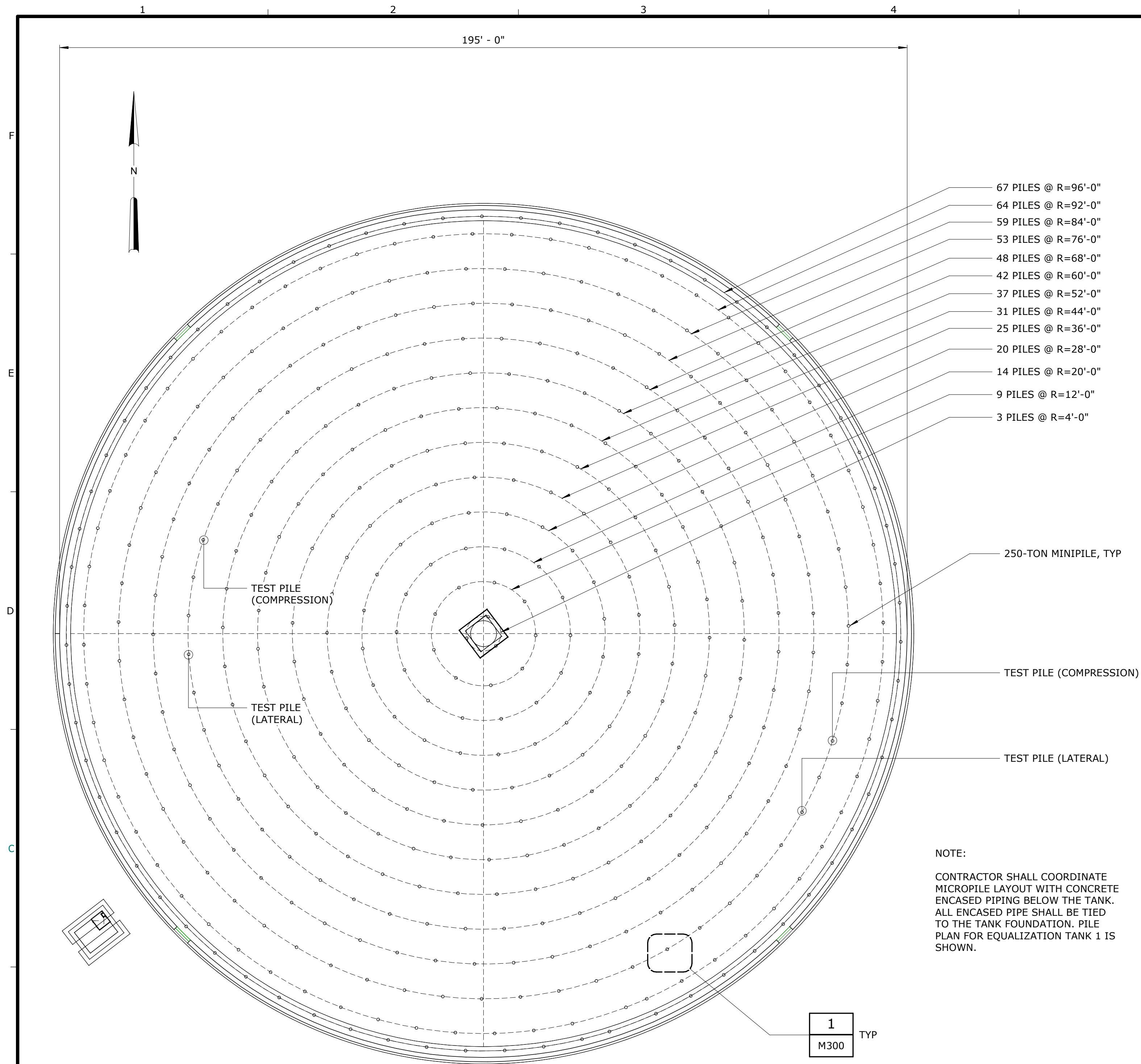
Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

C:\Users\lmedwards\Documents\50037-007-300-EQT-S_bmedwards@hazenandawyer.com.rvt
11/30/2018 9:51:47 AM

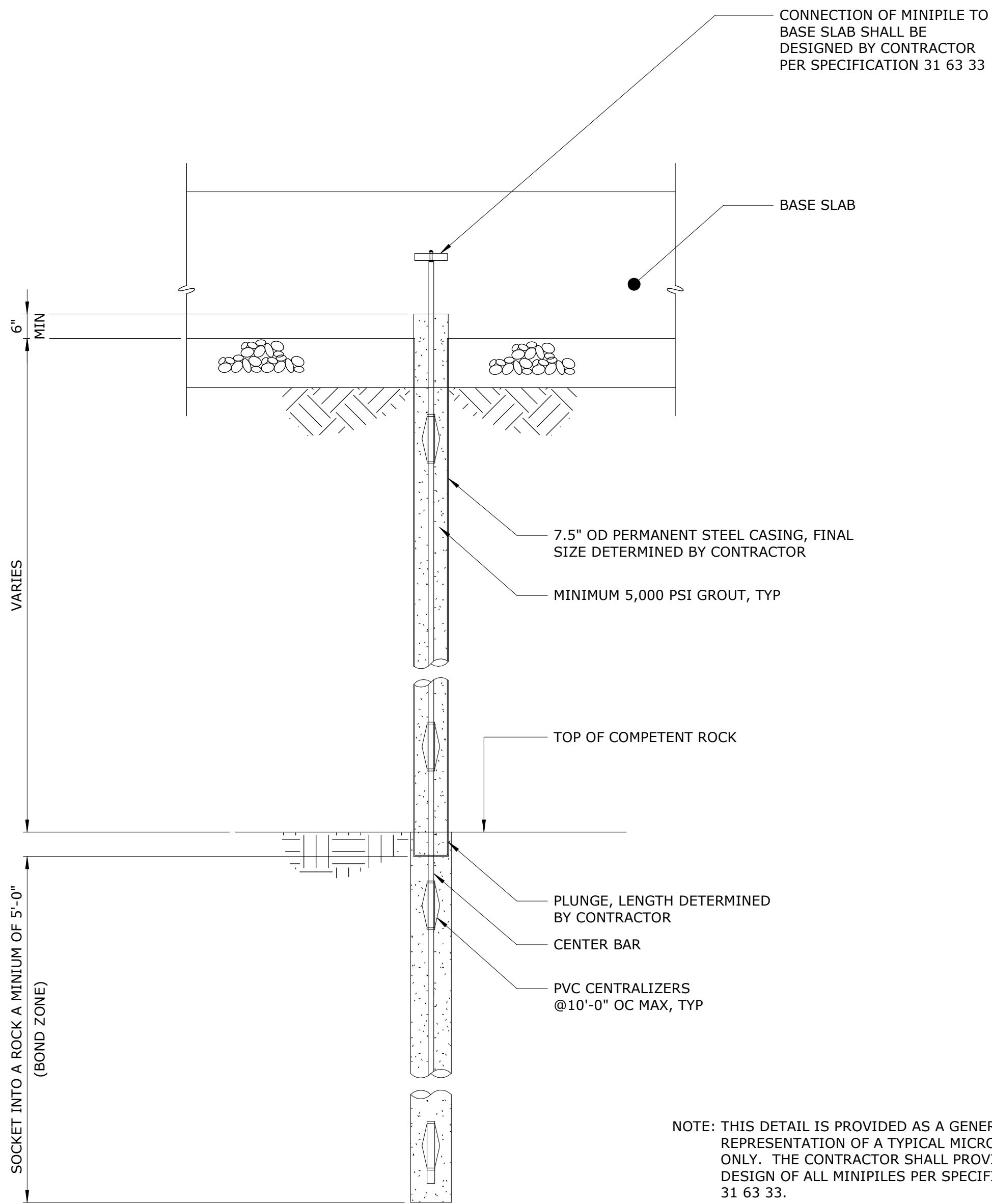


PILE PLAN
1/16" = 1'-0"

| MICROPILE SCHEDULE | | | | | | |
|--------------------|-----------------------|--------|---------------------------------|---|----------------------------|--|
| TANK NO. | TOP OF PILE ELEVATION | | ESTIMATED TOP OF ROCK ELEVATION | ESTIMATED PILE LENGTH TO TOP OF ROCK (FT) | QUANTITY OF PILES IN GROUP | ESTIMATED TOTAL LENGTH OF PILE GROUP TO TOP OF ROCK (FT) |
| | MAX | MIN | | | | |
| 1 | 666.75 | 664.42 | 610.00 | 56.75 | 472 | 26786 |
| 2 | 666.75 | 664.42 | 620.00 | 46.75 | 472 | 22066 |
| 3 | 666.75 | 664.42 | 620.00 | 46.75 | 472 | 22066 |

NOTES:

- MICROPILES FOR TANK 3 SHALL BE PART OF BID ALTERNATE 1.
- MICROPILES ARE EQUALLY SPACED ON EACH RADIUS.



TYPICAL MICROPILE DETAIL

| | |
|---------------|----------|
| DETAIL | 1 |
| 1/2" = 1'-0" | M300 |

NOTES:

- ALL MICROPILES SHALL BE INSTALLED TO DEVELOP A MINIMUM COMPRESSIVE ALLOWABLE LOAD OF 250 KIPS (500 KIPS ULTIMATE) AND A MINIMUM LATERL ALLOWABLE LOAD OF 20 KIPS (40 KIPS ULTIMATE). MICORPILES SHALL HAVE A MINIMUM 5'-0" EMBEDMENT INTO ROCK.
- PILE LAYOUT SHOWN IS FOR GENERAL ARRANGEMENT AND BID PURPOSES. FINAL LAYOUT WILL BE DETERMINED BY THE TANK MANUFACTURER.
- MICROPILES DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICAITON 31 63 33. SELECTED MINIPILES SHALL BE LOAD TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 31 08 13. TWO MICROPILES SHALL BE TESTED IN COMPRESSION AND TWO MICROPILES SHALL BE TESTED LATERALLY FOR EACH EQUALIZATION TANK. MICROPILE LOAD TEST LOCATIONS ARE SHOWN ON THE PILE PLAN/M300 FOR THE EQUALIZATION TANKS. CONTRACTOR MAY SUBMIT ALTERNATE LOAD TEST LOCATIONS TO THE ENGINEER FOR APPROVAL.
- FOR BID PURPOSES, THE CONTRACTOR SHALL PROVIDE PRICING UNDER BASE BID ITEMS 4.a, 4.b, and 4.c FOR COMPLETE DESIGN, TESTING, AND INSTALLATION OF MICROPILES. SEE ALSO BID ALTERNATE NO. 1.

NOTE: THIS DETAIL IS PROVIDED AS A GENERAL REPRESENTATION OF A TYPICAL MICROPILE ONLY. THE CONTRACTOR SHALL PROVIDE FINAL DESIGN OF ALL MINIPILES PER SPECIFICAITON 31 63 33.

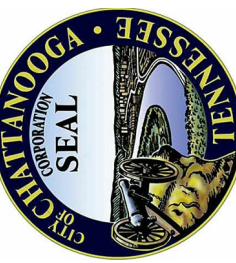
Hazen

HAZEN AND SAWYER
200 W. MARTIN LUTHER KING BLVD.,
SUITE 1000
CHATTANOOGA TN 37402



BID SET

WET WEATHER COMBINED SEWER
STORAGE - PHASE 1
CITY OF CHATTANOOGA, TN
CONSENT DECREE PROGRAM



| REV | DATE | REVISION DESCRIPTION |
|-----|---------|--------------------------------|
| 4 | 11/2018 | ADDENDUM 3 |
| 3 | 11/2018 | BID SET |
| 2 | 09/2018 | 100% CITY LDO SUBMITTAL |
| 1 | 09/2018 | 100% CITY LDO SUBMITTAL REVIEW |

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE.

THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

PROJECT NO: 50037-007

DATE: NOVEMBER - 2018

| | | |
|-------------|-----------|----------|
| DISC. LEAD: | DESIGNER: | CHECKER: |
| WGL | ZPG | WGL |

SHEET TITLE

EQUALIZATION TANK
MECHANICAL
PILE PLAN

SHEET
M300