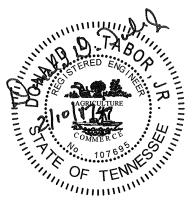
#### **ADDENDUM NO. 4**

# MOCCASIN BEND WASTEWATER TREATMENT PLANT DETRITORS REHABILITATION CONTRACT NO. W-15-001-201

# **CITY OF CHATTANOOGA, TENNESSEE**

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



#### I. CONTRACT DOCUMENTS

- A. Section 00 41 00, Bid Form. Pages 00 41 00-1 through 00 41 00-7
  - 1. DELETE Section 00 41 00 in its entirety and SUBSTITUTE therefor the attached Section 00 41 00.
- **B.** Section 00 52 00, Agreement. Page 00 52 00-1
  - 1. DELETE Article 4.02 in its entirety and SUBSTITUTE therefor the following:
    - "4.02 Days to Achieve Substantial Completion and Final Payment
      - A. The Work will be substantially completed within 390 calendar days after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within 420 days after the date when the Contract Times commence to run. The 390 days includes 120 days for submittals review, material/equipment procurement, development of final construction sequence, etc. On site construction shall be completed within and limited to 270 calendar days thereafter unless additional construction time is allocated by change order."

- **C. Section 00 73 00, Supplementary Conditions.** Article 18.13, Paragraphs A. through D., Pages 00 73 00-12 and -13.
  - 1. DELETE Article 18.13 in its entirety.

#### **II. SPECIFICATIONS**

- **A. Section 09 92 00, Protective Coatings**. Page 09 92 00-3.1.
  - 1. DELETE Article 1.6 in its entirety and SUBSTITUTE therefor the following:

#### "1.6 LEVELS OF REPAIR FOR INTERIOR CONCRETE SURFACES

- A. Level I Repair Surface preparation and application of protective coating on surfaces with none of the defects described below for Level II or III repairs. Surface preparation and application of the protective coating shall be done in accordance with the requirements stipulated in Parts 2 and 3 below.
- B. Level II Repair Surface preparation and application of surface restoration mortar and protective coating on surfaces with exposed aggregate, concrete spalling, cracking, delamination, voids, and/or any other defects identified by the Owner's representative that are greater than ¼ inch in any direction along the concrete surface and between ¼ and ½ inch in depth. Surface preparation and application of the surface restoration mortar and protective coating shall be done in accordance with the requirements stipulated in Parts 2 and 3 below.
- C. Level III Repair Surface preparation and concrete repair for areas with exposed aggregate, concrete spalling, cracking, delamination, voids, honeycombing, rock pockets, holes left by the tie rods, and/or other defects identified by the Owner's representative that are greater than ¼ inch in any direction along the concrete surface and greater than ½ inch in depth. Repairs shall be conducted in accordance with the requirements stipulated in Parts 2 and 3 below and as shown/stipulated on the Contract Drawings."

# III. DRAWINGS

- **A. Drawing No. G2.** DELETE the drawing in its entirety and SUBSTITUTE therefor the attached Drawing No. G2.1.
- **B. Drawing No. G3.1.** DELETE the drawing in its entirety and SUBSTITUTE therefor the attached Drawing No. G3.2.
- **C. Drawing No. G5.1.** DELETE the drawing in its entirety and SUBSTITUTE therefor the attached Drawing No. G5.2.

- **D. Drawing No. C.3** DELETE the drawing in its entirety and SUBSTITUTE therefor the attached Drawing No. C3.1.
- **E. Drawing No. C.4** DELETE the drawing in its entirety and SUBSTITUTE therefor the attached Drawing No. C4.1.
- F. Drawing No.s R17 through R22 INSERT attached Drawing No.s R17 through R22.
- **G. Drawing No.s R1 through R16** DELETE R16 from each of Drawing No.s R1 through R16 and SUBSTITUTE R22.

#### IV. REQUESTS FOR INFORMATION (RFIs)

The following are the responses to the Requests For Information (RFIs) that were submitted to the City Purchasing Department:

A. Addendum No.2, Item I.B.2 and Specification Section 00 41 00 (Bid Form), Article 7.01, Paragraphs E & F. Page 00 41 00-5.

#### **RFI Statements and Questions**

1. Regarding the requirement that EEO and Debarment forms from 00 21 13-15.01.E/F but 00 41 00-7.01.E/F remains intact. Should these sections (00 41 00-7.01.E/F) also be deleted? Please advise.

#### **Engineer's Response**

- 1. The requirements of Section 00 41 00-7.01.E/F shall be deleted as well. These paragraphs are being deleted in this addendum (see above).
- B. Specification Section 00 73 00, (Supplementary Conditions), Article 18.13 (Davis-Bacon Wage Rates). Pages 00 73 00-12 and -13.

#### **RFI Statements and Questions**

1. Since this project is locally funded, are Davis-Bacon wage rates applicable to this project? If not, please delete this spec section. If D-B wage rates are applicable, please provide applicable wage rate determinations - none are currently found in the bidding documents.

#### **Engineer's Response**

1. The project is locally funded. Therefore, the Davis-Bacon wage rates are not applicable. This article is being deleted in this addendum (see above).

C. Specification Section 09 92 00 (Protective Coatings), Article 3.2, Paragraph A.1. Page 09 92 00-7.

#### **RFI Statements and Questions**

1. Regarding "Mineral slag by-products may not be used". Can coal slag abrasives be used if they meet the <5% silica content requirement? If needed, proposed product data can be provided for review. Please advise.

#### **Engineer's Response**

- 1. Coal slag abrasives may not be used.
- D. Addendum No. 2, Items II.B, II.C.3, II.D, and Specification Section 01 25 00 (Substitutions and Options)

#### **RFI Statements and Questions**

1. Regarding discussion about "equal" manufacturers/suppliers for different materials/equipment (valves, slide gates, & detritors). Spec section 01 25 00-1.05 details differences between "equal" manufacturers/suppliers dependent upon whether the term "equal" "precedes" or "follows" named manufacturers/suppliers – if "equal" "precedes", no consideration until after the Notice to Proceed and if "equal" "follows", approval must be given prior to the bid date (submittal data must be submitted to the engineer no later than 14 days prior to the bid date). With the incorporation of the addenda items, the term "equal" is now found both "preceding" and "following" the named manufacturers/suppliers in 40 05 23-2.2.A, 40 05 73-2.2.A, & 46 23 7-1.1.C. Please advise if "equal" manufacturers/suppliers of these materials/equipment require approval prior to the bid (pre-bid submittal & approval via addendum) or will "equal" Manufacturers/ suppliers be evaluated/approved after the Notice to Proceed. Please clarify.

#### **Engineer's Response**

- 1. The 14-day period prior to the bid date has passed. Therefore, the only option at this point for consideration of substitutes for manufacturers/suppliers for the sections that were revised in Addendum No.2 is following the Notice to Proceed.
- E. Specification Section 01 43 33 (Manufacturer Services), Article 1.06, Paragraphs K and L. Page 01 43 33-4.

#### **RFI Statements and Questions**

1. Regarding 30-day & 6-month "follow up" manufacturer services and instruction. These services/instructions are specified to be "in addition to the specified services of manufacturer's representative" found in the detailed equipment specs. Please confirm that these "follow up" visits are required.

#### **Engineer's Response**

- The "follow up" visits are required.
- F. Specification Section 01 75 16 (Starting of Systems), Article 1.01, Paragraph D and Article 1.06. Pages 01 75 16-1 and 01 75 16-2 repectively. Specification 00 72 00 (General Conditions), Article 1.01, Paragraph A.44. Page 5 of 91. Regarding the 30-day Operating Test.

#### **RFI Statements and Questions**

- 1. Must the 30-day operating test period be successfully completed before "substantial completion" is attained?
- 2. Must a 30-day operating test period be performed on each detritor basin before moving on to the next detritor basin or sequenced construction activity?
- 3. Must the GC pay for all utilities (water, air, oil, power, fuel, chemicals, test equipment, etc.)?

# **Engineer's Response**

- 1. Yes.
- 2. No.
- 3. The City will allow the GC to access/utilize on-site water and electrical service for use at the project trailer and for normal power tool use. All other services shall be provided and paid for by the GC.
- G. Drawing G5.1 (Construction Sequence), "Minimum Temporary Bypass Pumping Requirements" for handling both the North & South Recycle Pump Station Flows.

#### **RFI Statements and Questions**

- 1. How long can these pump stations be completely turned off (shut down) in order to determine "best" plans for tieing into or bypassing around the pump station force mains?
- 2. What portions of the road to the west of the detritor complex be closed to allow for installation of temporary bypass piping?
- 3. Where can the flows from these pump stations be temporarily routed/discharged?
- 4. What quantities of grit and/or organics (sludge) should the contractor anticipate having to remove/dispose in the detritor basins and influent/effluent/bypass/distribution channels once they are drained?

# **Engineer's Response**

- 1. 4 hours (max.) for both the north and south recycle pump stations.
- 2. The main road west of the detritors shall remain open. Access to the septage receiving area shall also remain open. See response in item 3 below and Drawing G5.2 (included in this Addendum) for proposed temporary routing of force main from the north and south recycle pump stations.
- 3. The north and south recycle pump force mains may be temporarily intercepted, re-piped, and re-routed as shown on Drawing G5.2 (included in this Addendum). The GC may propose other routes, however the alternate routes must be approved by the City and the Engineer.
- 4. The GC should assume an average of 6 to 12 inches of grit/sludge mixture that could remain in detritors 1, 2, and 3 after draining. The mixture of grit/sludge removed by vac truck or other means may be disposed of in the City's decanter dumpster located just west of the filter press building. The quantity of daily disposed grit/sludge may be limited if it disrupts plant operation. Coordination with the City will be required. Similar depths of grit/sludge should be assumed when cleaning/removing solids from the primary clarifier influent channels.
- H. Drawing C3 (Site Plan Concrete Surface Improvements), Note 2, Sentence 2.

#### **RFI Statements and Questions**

1. The exterior perimeter walls of the concrete decking are to be repaired and coated "from the top of the deck to the base of the wall". Is it the engineer's intent for the exterior perimeter walls to be repaired and coated in their entirety to the wall foundation slab or only the wall portion that is above grade and exposed to view? The indicated walls extend significantly below grade to their foundation. This would require excavation to expose the the below grade walls. Please Clarify.

#### **Engineer's Response**

- 1. Only the wall portions that is above grade and exposed to view shall be repaired and coated.
- I. Drawing G5.1 (Construction Sequence)

# **RFI Statements and Questions**

1. Regarding the "Minimum Temporary Bypass Pumping Requirements". Please provide "as-built" drawings/details for the North & South Recycle PS's. Please provide "as-built" drawings/details for the "Existing MH (w/ 18" BFV)" and pipe connection detail between the 18" FM and Primary Influent Channel wall (North Recycle PS FM). This information is needed to assist in putting together a bypass plan for the respective North & South Recycle PS flows during construction.

- 2. Task 1.H When is Gate "C" ever open so that it needs to be closed during Task 1? Isn't Gate "C" always closed for this task? Isn't Gate "C" always closed during the construction of this project?
- 3. Task 3.4 Aren't Primary Clarifiers 1-4 the "north" clarifiers, not "south"?
- 4. Task 5.4 Aren't Primary Clarifiers 5-8 the "south" clarifiers, not "north"?
- 5. Task 5.7 Shouldn't a task including "close Gate "O"" precede Task 5.7?
- 6. Regarding flows from the onsite Influent Pump Station. It appears that flows from the onsite Influent Pump Station have three (3) possible routes one (1) to the existing Detritor Inlet Box, one (1) to the existing 66" concrete pipe, and one (1) to the existing 48" Plant Bypass. Is it of any concern to bidding contractors that no mention or discussion of flows to/from the existing 48" Plant Bypass is addressed? With that said, do any flows to/from this 48" Plant Bypass line impact construction sequencing in any way? Must any flows to/from the 48" Plant Bypass line need to be handled by the contractor? Please clarify/advise.
- 7. Drawing G5.1 (area E3), Drawing D2 (lower left corner), & Drawing R7 (areas E2 & F2) regarding a 42" diameter pipe (w/ 36" BFV w/ EMO) whose flow discharges into the Primary Clarifier Influent Channel. Are bidding contractors to assume no flows will enter the Primary Clarifier Influent Channel, in particular during Task 5 activities. No reference is made to when and/or how long this line can be shut down and/or fits into the construction sequencing details. Must any flows from this 42" line need to be temporarily handled by the contractor? We have assumed that the modifications to the 36" BFV can be made anytime during construction but that the 36" BFV will be "closed" (locked out/tagged out) during any work activities in the Primary Clarifier Channel south of either the location of temporary bulkhead "M" or permanent gate "O" (as required by sequencing). Please clarify/advise.

#### **Engineer's Response**

- 1. The requested drawings have been added as Reference Drawings R18 through R22 (included above in this addendum).
- 2. Disregard Task 1.H. However, verify that Gate "C" is closed as required under Task 1.A. Correction has been made in Drawing G5.2 (included in this addendum).
- 3. Correct. Primary Clarifiers 1-4 are the "north" clarifiers. Correction will be made in Drawing G5.2 (included in this addendum).
- 4. Correct. Primary Clarifiers 5-8 are the "south" clarifiers. Correction will be made in Drawing G5.2 (included in this addendum).
- 5. A task involving closing Gate "O" prior to Task 5.7 has been added to Drawing G5.2 (included in this addendum).
- 6. Flows to/from the 48" Plant Bypass line should not need to be handled by the contractor and should not impact the construction sequencing.
- 7. The 42-inch line is an old recycle line from the equalization basin pump station t that has not been used in 20-plus years. There are two isolation valves on this line that have been closed during this 20-plus-year time period. One is located near the SE corner of the south primary clarifiers and the other is located as shown on drawing D2. Care should be taken when draining the primary clarifier influent channel to the south primary clarifiers. Inspections for possible leaks

	should be conducted before starting final cleaning and concrete restoration work. If any leakage is observed, it shall be brought to the attention of the Engineer.	
Rid	dder Must Acknowledge Receipt of this Addendum on Bid Form	
<u> </u>	ado: maot / total o mago recosipt of timo / adolidam on bla f orm	

Addendum Prepared by CTI ENGINEERS, INC. February 10, 2017

**Bid Form** 

# MOCCASIN BEND WASTEWATER TREATMENT PLANT DETRITORS REHABILIATION CONTRACT NUMBER W-15-001-201

#### **ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

City of Chattanooga, Tennessee Purchasing Department 101 E. 11<sup>th</sup> 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.

Addendum No.	Addendum Date

- 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.
- 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

Bid Form

- 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

"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 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

	SCHEDULE IA - LUMP SUN	BASE	BID		
Necessa Improver as requi Docume	ry Appurtenances for the construction of the D ments at the Moccasin Bend Wastewater Treatment Pla red for a complete operating installation as described ints and/or as shown on the Contract Drawings, include	etritors ant (MB in the ing all E	Facility WWTP), Contract Base Bid		
	Dollars and	_ Cents	\$		
	SCHEDULE IB - UNIT PRICE B	ASE BI	D		
ltem No.	Description	Unit	Est. No. Of Units	Unit Price	Items Total
	CONCRETE REPAIRS AND PROTECTIVE COATIN	GS	•		
1	Level I Interior Concrete Repair/Coatings	SF	3,400		
2	Level II Interior Concrete Repair/Protective Coatings (Depth: 0.25" to < or = to 0.50")	SF	15,500		
3	Level III Interior Concrete Repair/Protective Coatings				
3a	Depth: $>0.50$ " to $<$ or $=$ to $1.50$ "	SF	3,000		
3b	Depth: $>1.50$ " to $<$ or $=$ to $2.50$ "	SF	1,000		
3c	Depth: $>2.50$ " to $<$ or $=$ to $4.00$ "	SF	1,000		
No.       Description       Unit       Of Units       Unit Price       Item         CONCRETE REPAIRS AND PROTECTIVE COATINGS         1       Level I Interior Concrete Repair/Coatings       SF       3,400       3,400       3,400       3,400       3,500       3,500       3,500       3,500       3,500       3,500       3,500       3,000       3					
5		SF	750		
6	Exterior Concrete Coating	SF	10,400		

Bid Form

	CASH ALLOWANCES				
7	Concrete and Materials Testing	LS	1	\$7,500	\$7,500
8	Odor Control Duct Repair	LS	1	\$20,000	\$20,000
TOTAL -	SCHEDULE IB				
	Dollars and	Cen	ts	\$	
TOTAL -	SCHEDULES IA AND IB				
	Dollars and		_ Cents	\$	
SC	HEDULE II – DEDUCTIVE ALTERNATE FOR DELETI AND COATING/REUSING OF EXISTING BRIDG				ES
Item No.	Description			Item To	otal
46 23 73	For deleting the new support bridges and handrail a reusing the existing support bridges and handrail at DEDUCT				
	Dollars and	Ce	ents	\$	
	SCHEDULE III – DEDUCTIVE ALTERNATI DETRITOR EQUIPMENT MANUF	_		ATE	
Item No.	Description			Item To	otal
46 23 73	For furnishing Detritor Grit Separator Mechanisms accessories manufactured by Envirodyne Systems, Ir PA in lieu of the named base bid manufacturer (Ovivo DEDUCT	nc. of Ca	mp Hill,		
	Dollars and	Ce	ents	\$	

#### **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

Name (typed or printed):

D. Attestation Regarding Personnel Used in Contract Performance

# **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 Inc	<u>vidual</u>	
	Name (typed or printed):	
	By:(Individual's signature)	(SEAL)
	(Individual's signature)  Doing business as:	
	Attest: (Notary)	
	Name (typed or printed):	
A Part	<u>nership</u>	
	Partnership Name:	(SEAL)
	By:(Signature of general partner – attach evidence of authority to signature	gn)
	Name (typed or printed):	
	Attest:(Signature of another Partner)	

Α	Cor	poratio	n

Corporation Name:		(SEA
State of Incorporation:		
Type (General Business, Professional, Service, Limited Lial	bility):	
By:(Signature)		
(Signature)  Name (typed or printed):	_	
Title:		
Attest:	(CORPORATE SEAL)	
Attest:(Signature of Corporate Secretary) Name (typed or printed):		
Date of Qualification to do business in Tennessee is		
oint Venture		
Name of Joint Venturer:		
First Joint Venturer Name:		(SEA
By:(Signature of first joint venture partner)		
Name (typed or printed):		
Title:		
Second Joint Venturer Name:		(SEA
		(OL/
By:(Signature of second joint venture partner)		
Name (typed or printed):		
Title:		
(Each joint venturer must sign. The manner of signing for e and corporation that is a party to the joint venture should labove.)		

# All Bidders shall complete the following:

Bidder's Business address:		
_		
Phone:	Facsimile:	
Primary Contact:		
E-mail:		
Submitted on	, 201	
State Contractor License No.		

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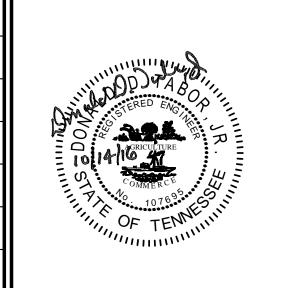
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SPECIFICATIONS AND OTHER CONTRACT DOCUMENT

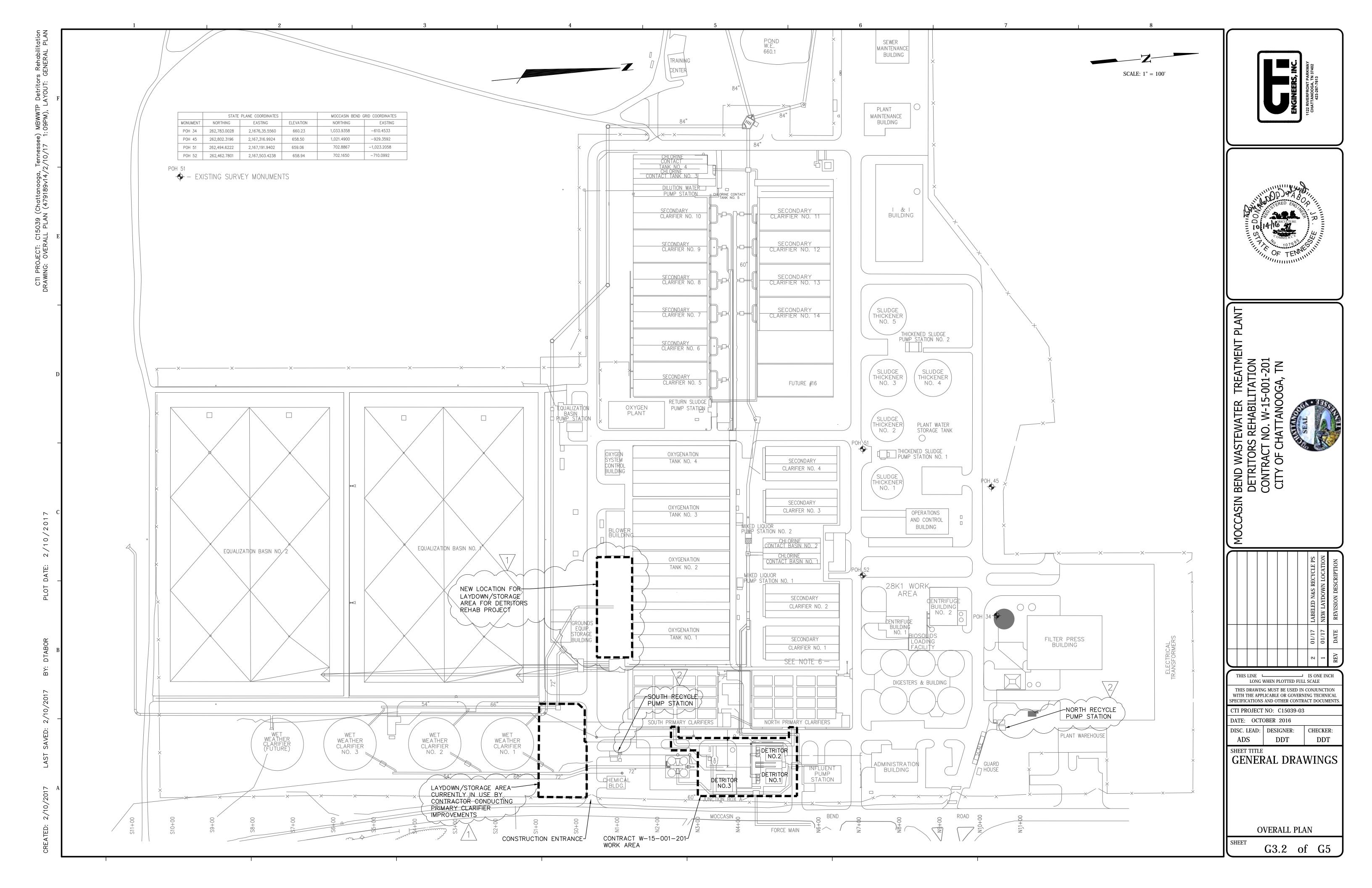
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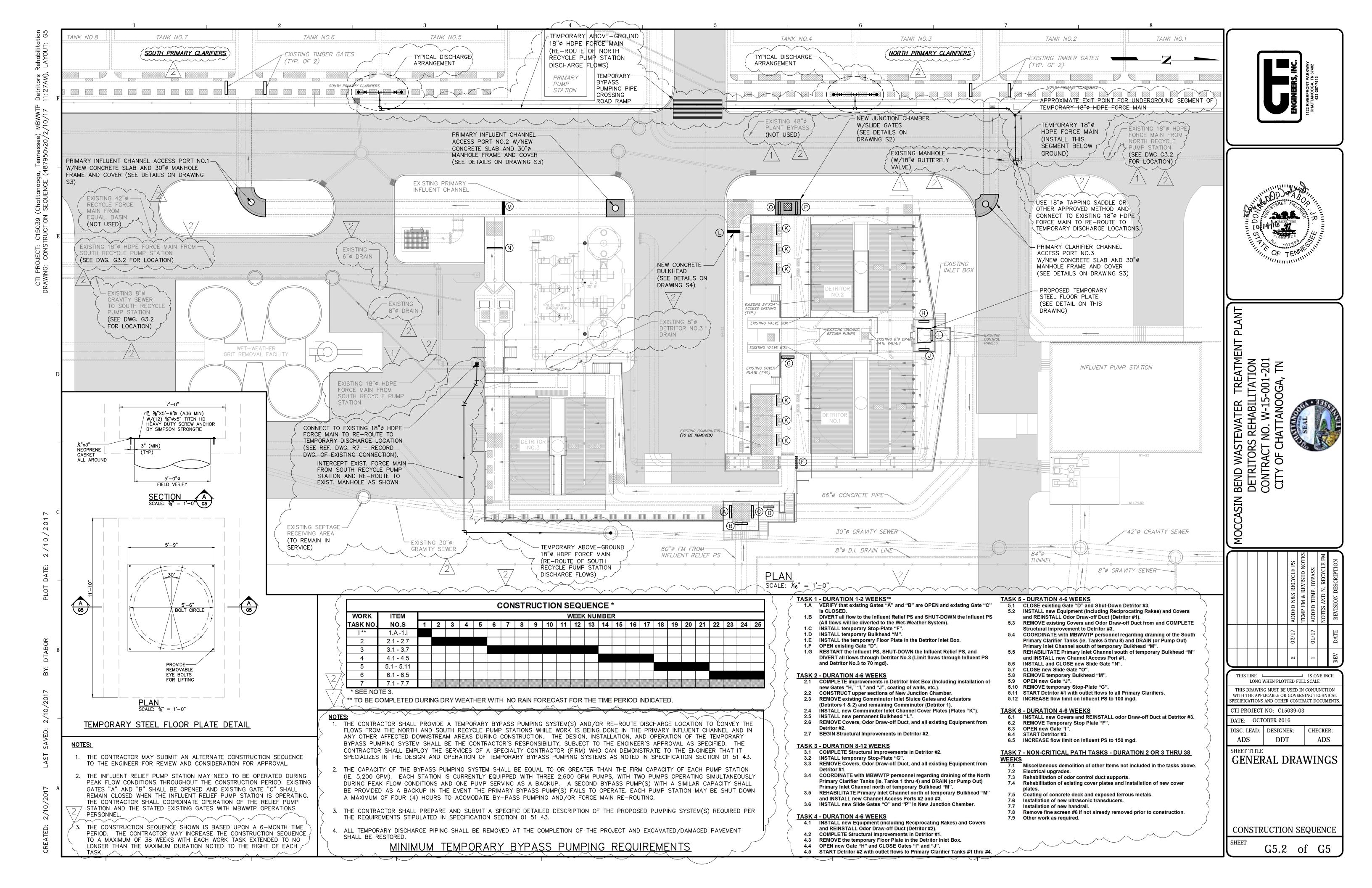
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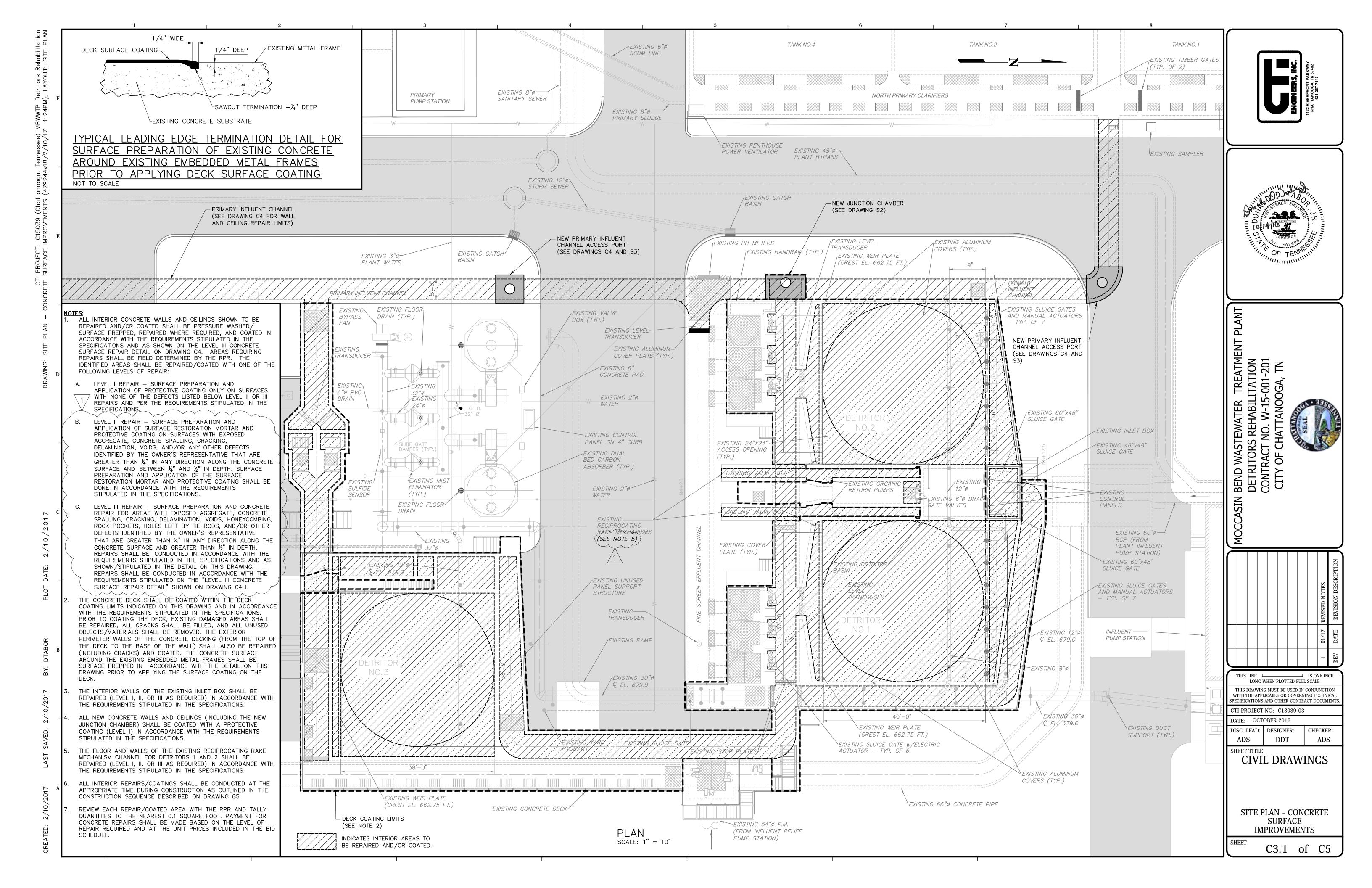
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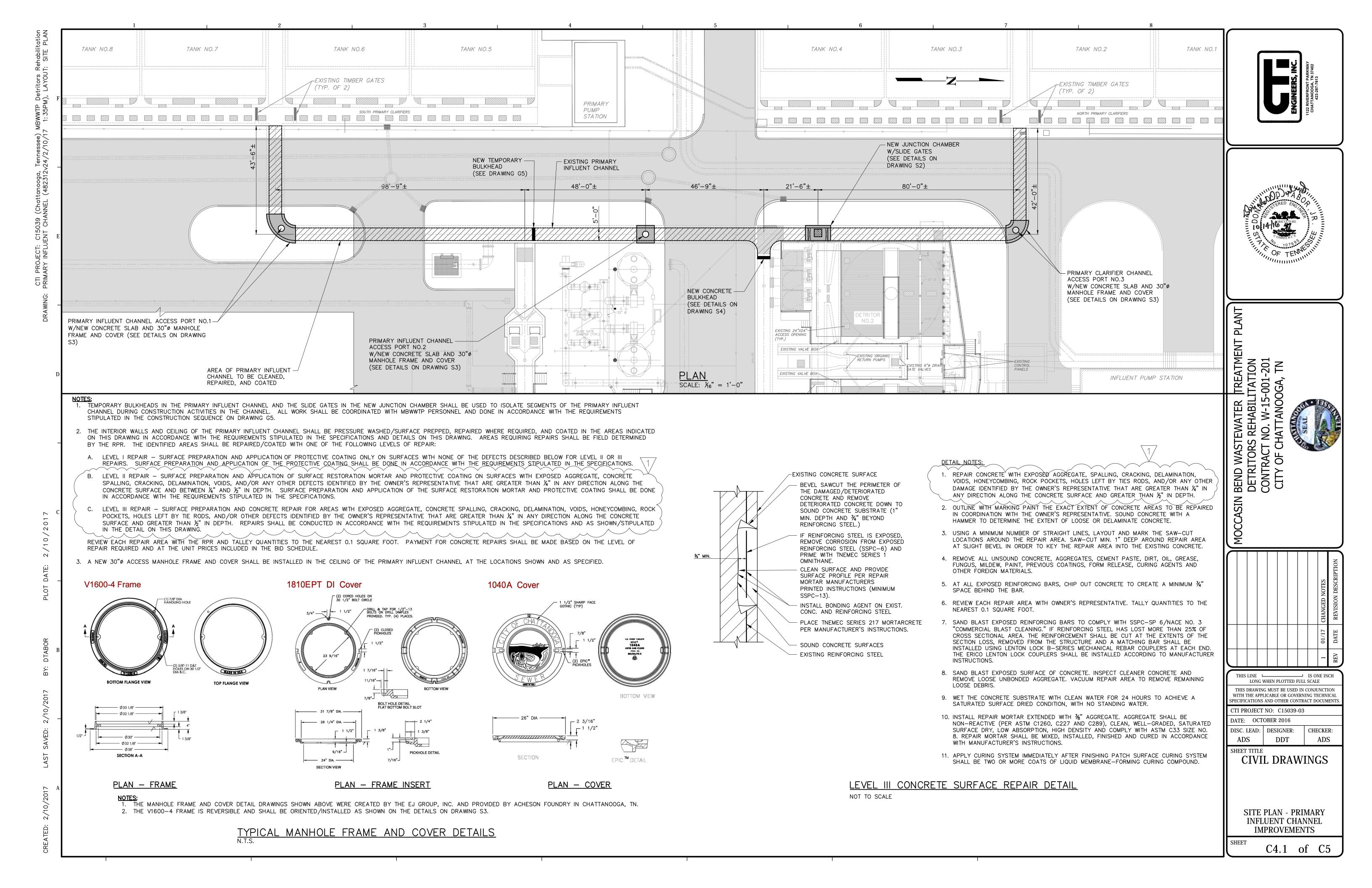
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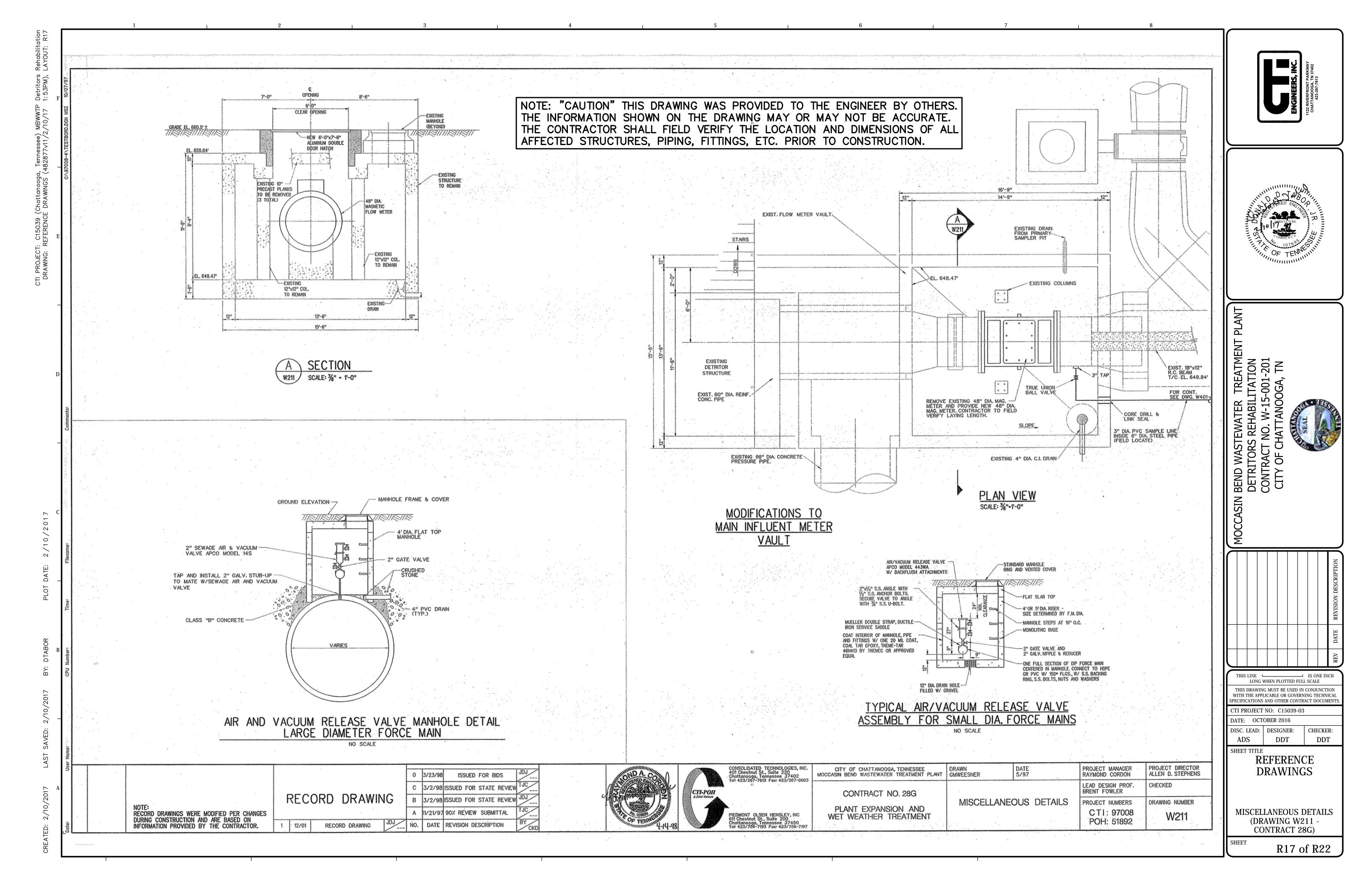
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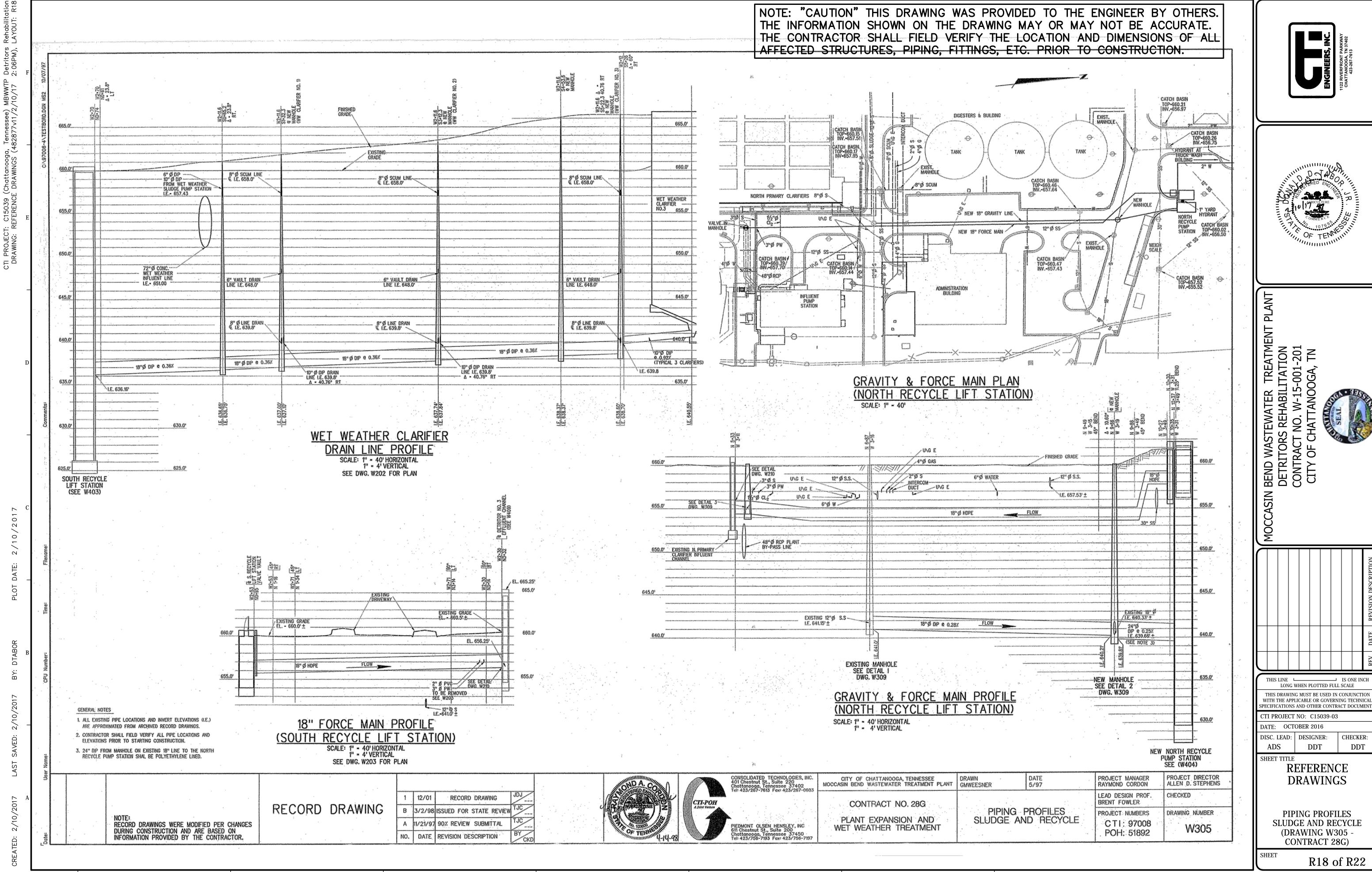


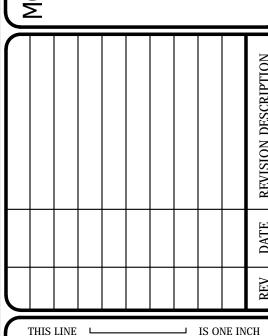


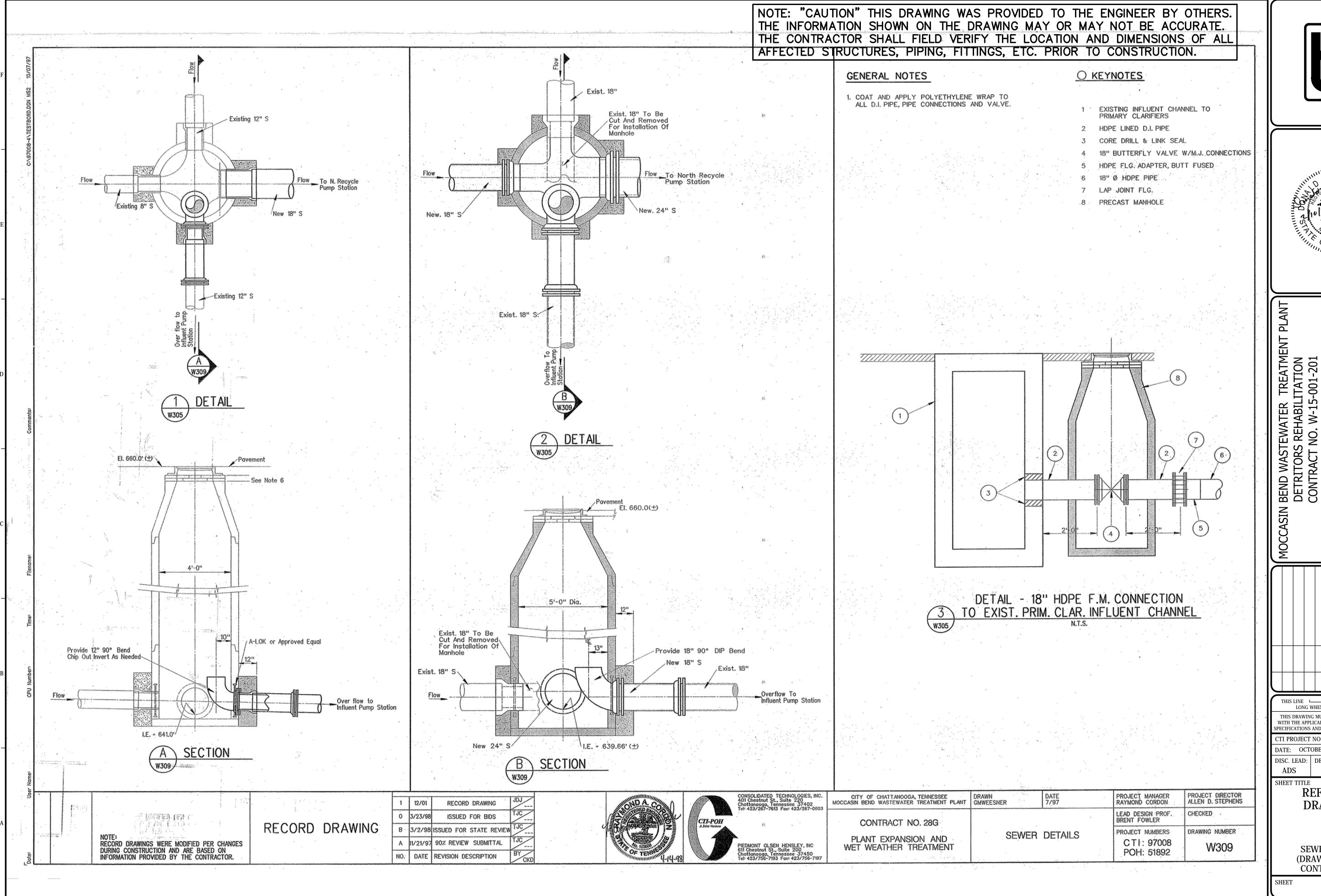




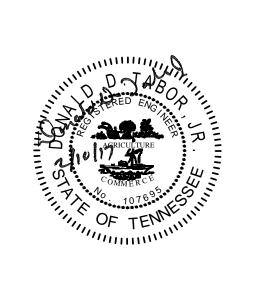








Rehabilita LAYOUT:



LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENT

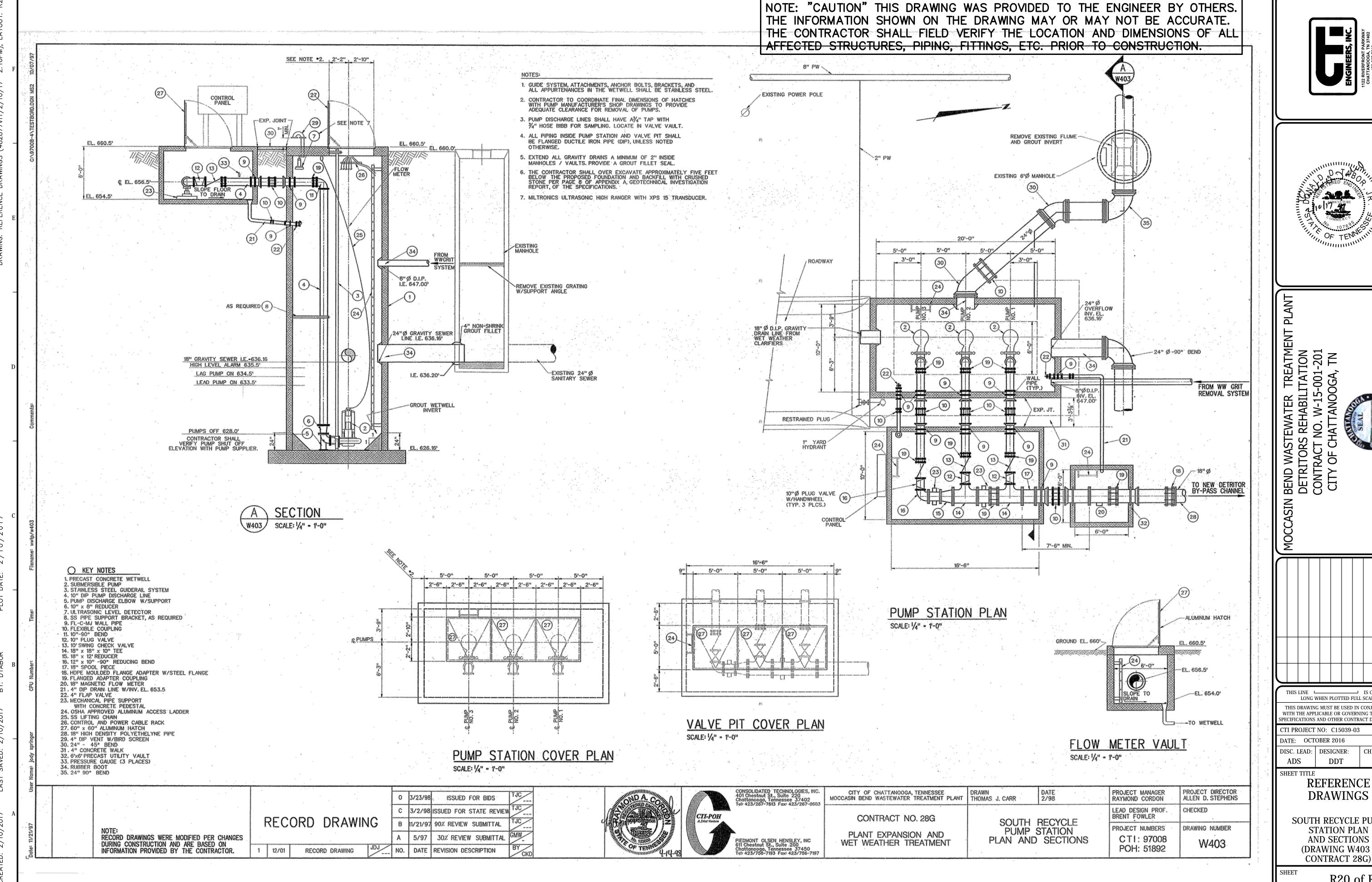
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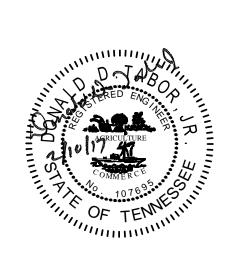
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SEWER DETAILS (DRAWING W309 CONTRACT 28G)

R19 of R22

DDT





LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL SPECIFICATIONS AND OTHER CONTRACT DOCUMENT

CTI PROJECT NO: C15039-03

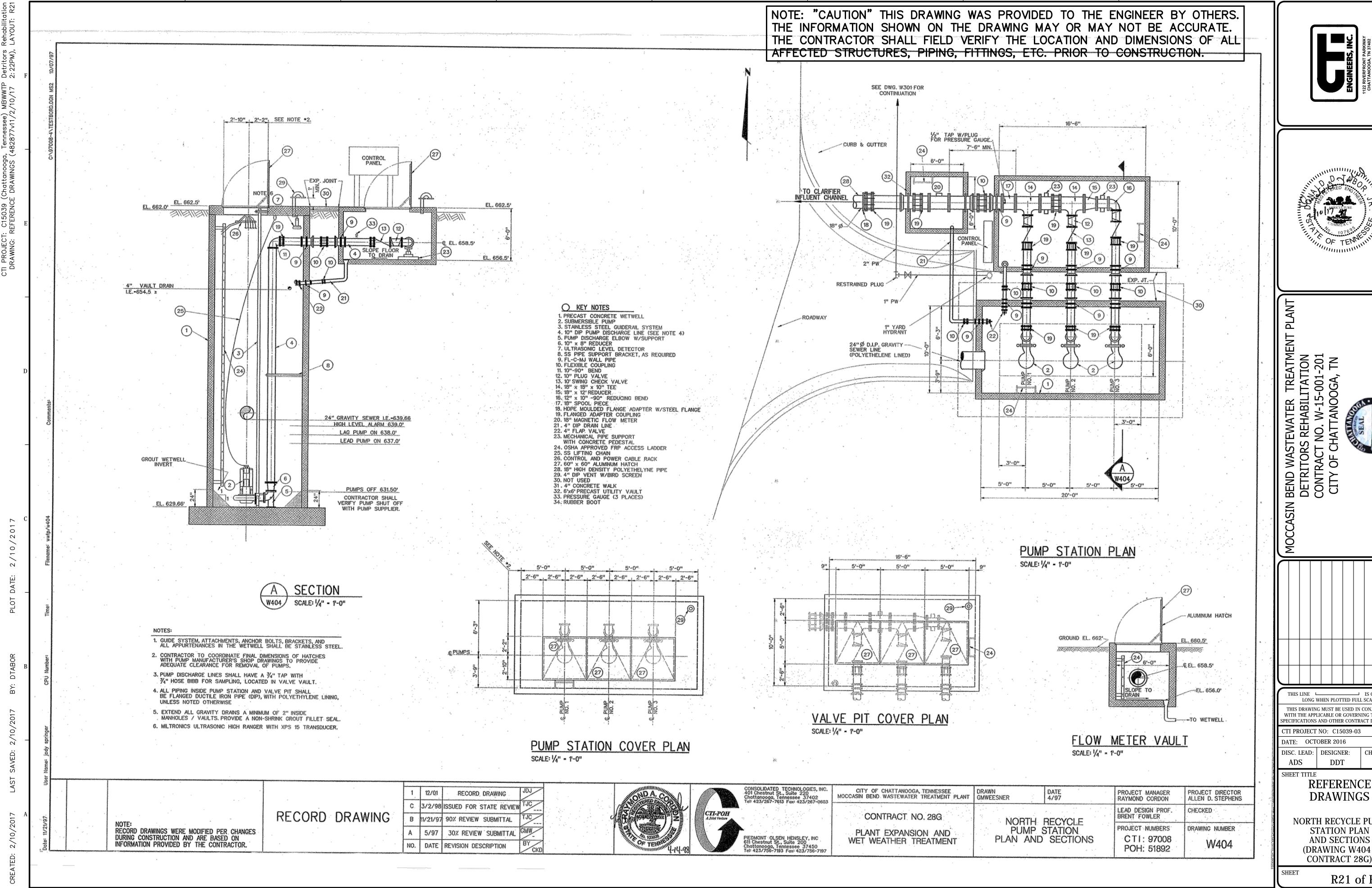
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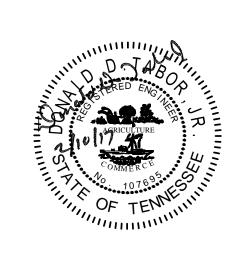
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SOUTH RECYCLE PUMP STATION PLAN AND SECTIONS (DRAWING W403 CONTRACT 28G)

R20 of R22





LONG WHEN PLOTTED FULL SCALE THIS DRAWING MUST BE USED IN CONJUNCTION WITH THE APPLICABLE OR GOVERNING TECHNICAL PECIFICATIONS AND OTHER CONTRACT DOCUMENT

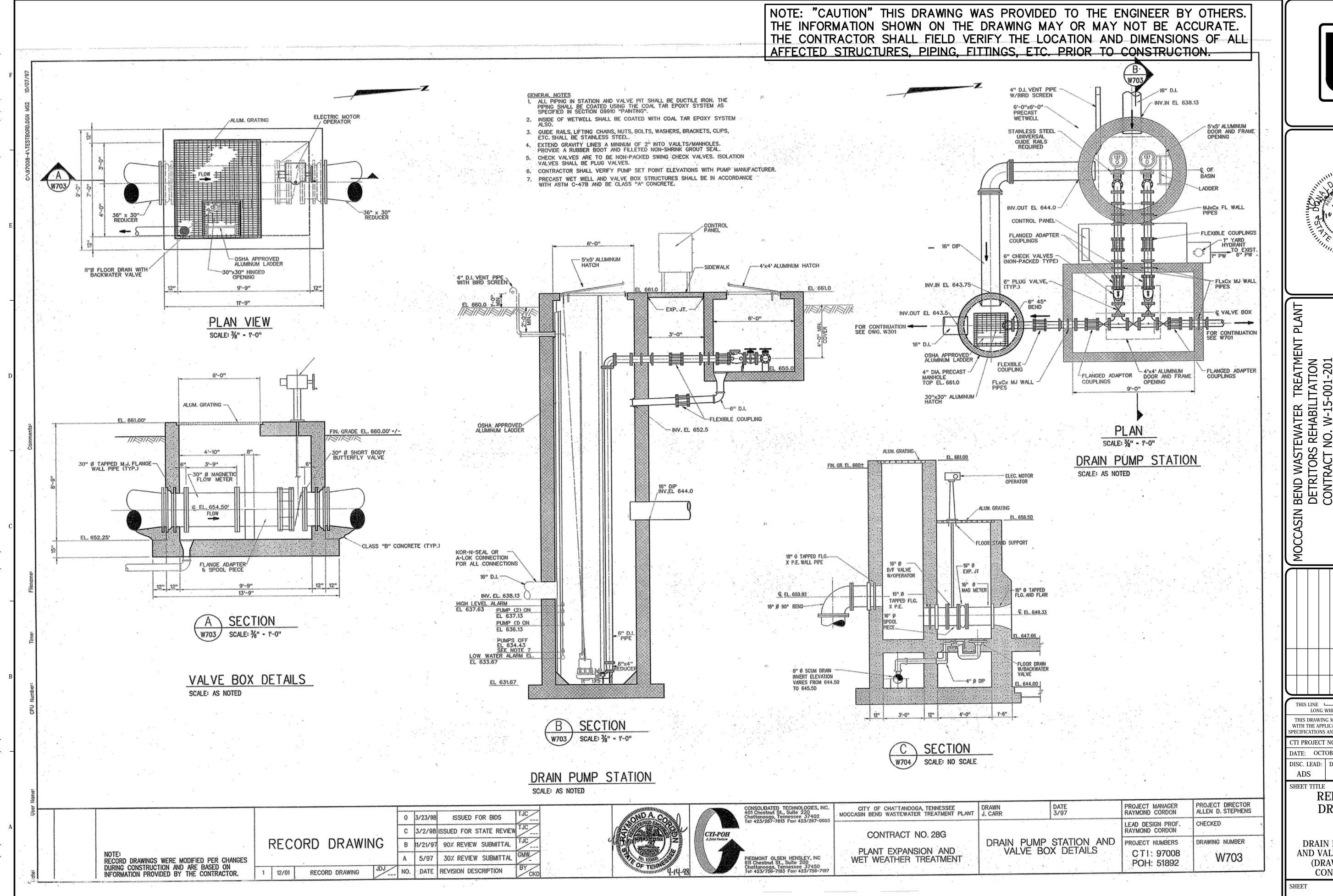
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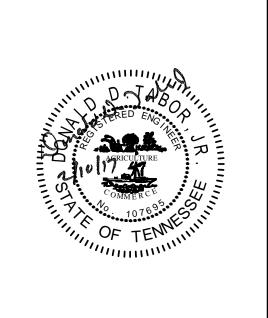
**DRAWINGS** 

NORTH RECYCLE PUMP STATION PLAN AND SECTIONS (DRAWING W404 CONTRACT 28G)

R21 of R22







LONG WHEN PLOTTED FULL SCALE

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

CTI PROJECT NO: C15039-03 DATE: OCTOBER 2016 DISC. LEAD: DESIGNER: CHECKER: DDT

REFERENCE **DRAWINGS** 

DRAIN PUMP STATION AND VALVE BOX DETAILS (DRAWING W703 -CONTRACT 28G)

R22 of R22