

**LETTER OF TRANSMITTAL**

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FROM: John King, P.E.

DATE: June 5, 2023

PROJ. NO.: K21011

SUBJECT: Addendum No. 2  
Hiwassee Utility Commission, Charleston, TN  
Water Treatment Plant Filters 1 – 4 Rehabilitation and Improvements

PAGES:   3   pages to follow

<b>PLEASE RESPOND</b> → → → →	<b>TO CONFIRM RECEIPT OF THIS ADDENDUM NO. 2 PLEASE SIGN AND EMAIL TO CTI</b> <a href="mailto:awilliams@ctiengr.com">awilliams@ctiengr.com</a>
	Company _____
	Signature _____
	Title _____
	Date _____

**ADDENDUM NO. 2**

**CONTRACT DOCUMENTS, SPECIFICATIONS, AND DRAWINGS  
FOR THE  
WATER TREATMENT PLANT  
FILTERS 1 – 4 REHABILITATION AND IMPROVEMENTS**

The following changes shall be made to the Contract Drawings.

**I. DRAWINGS**

**A. Drawing No. 104 Walkway Platform and Guardrail Replacement Sheet 1 of 2**

1. DELETE existing drawing "104" and REPLACE with attached drawing "104".

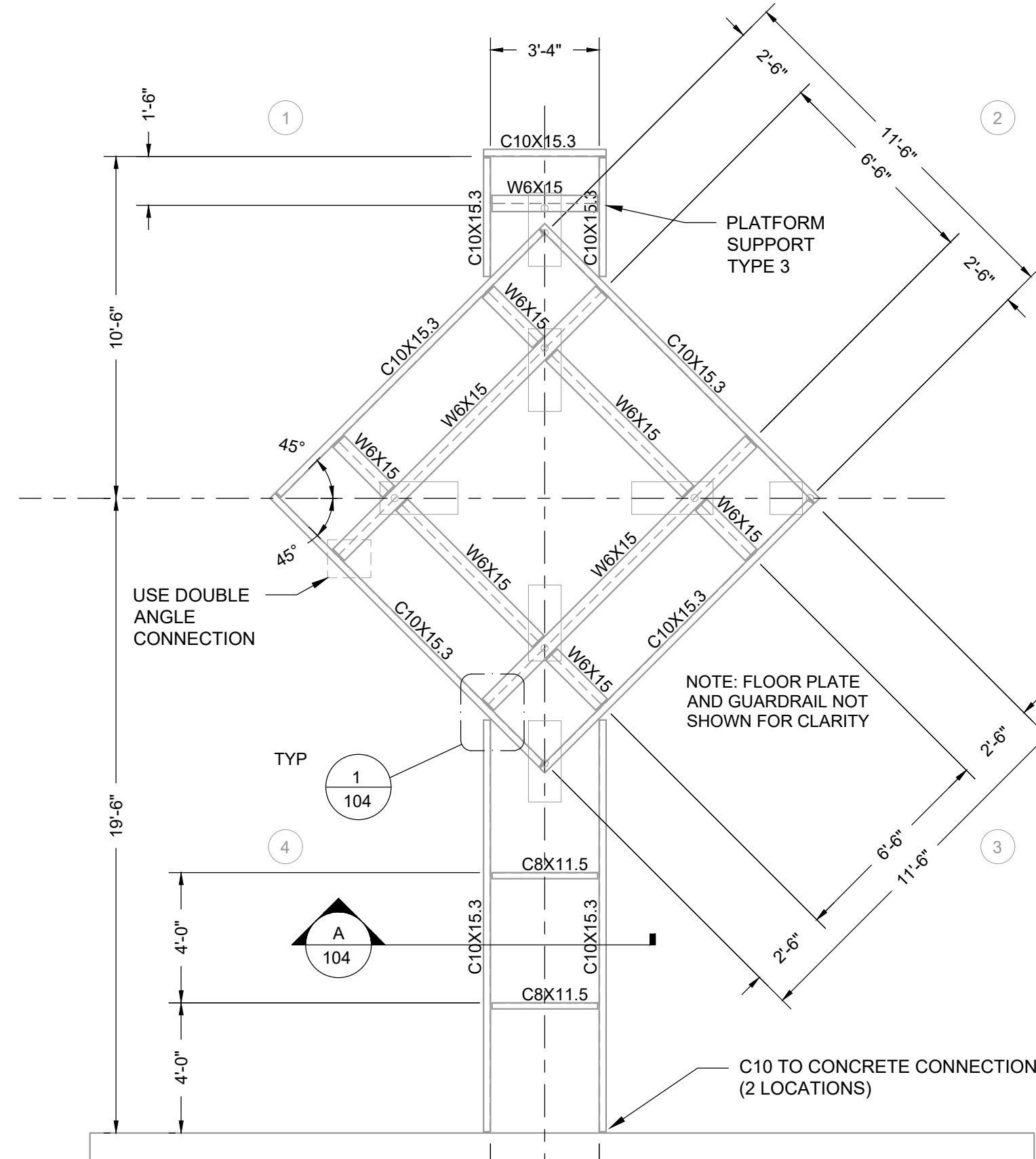
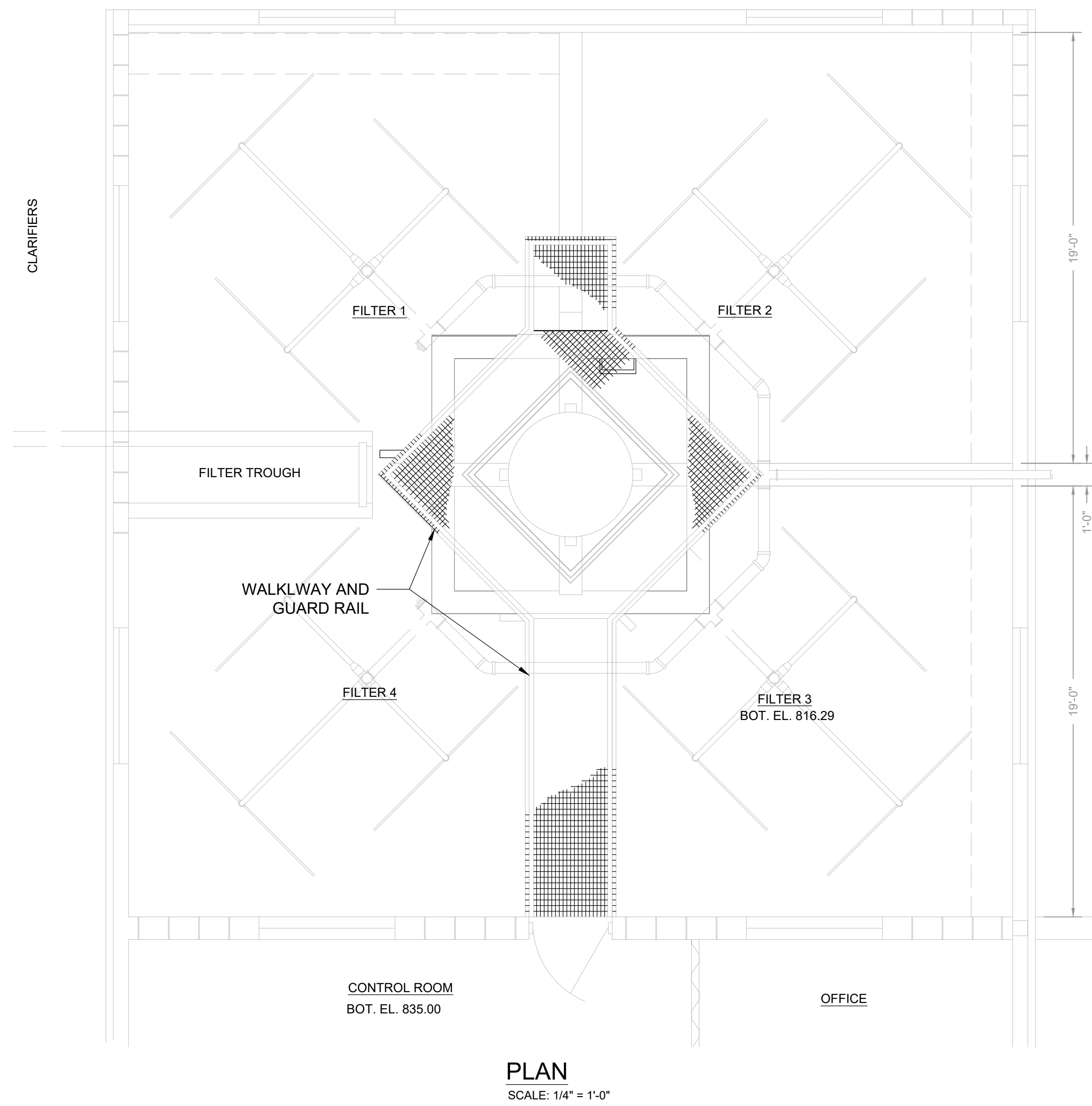
**B. Drawing No. 105 Walkway Platform and Guardrail Replacement Sheet 2 of 2**

1. DELETE existing drawing "105" and REPLACE with attached drawing "105".

Date: June 5, 2023

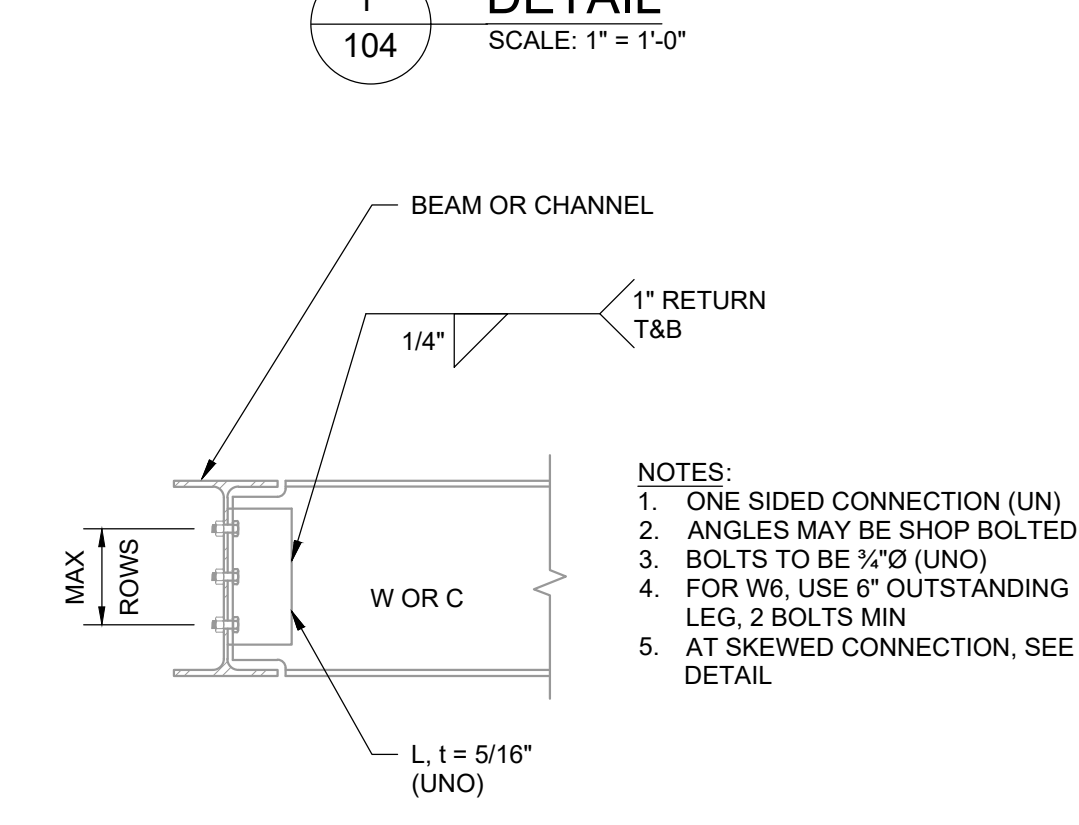
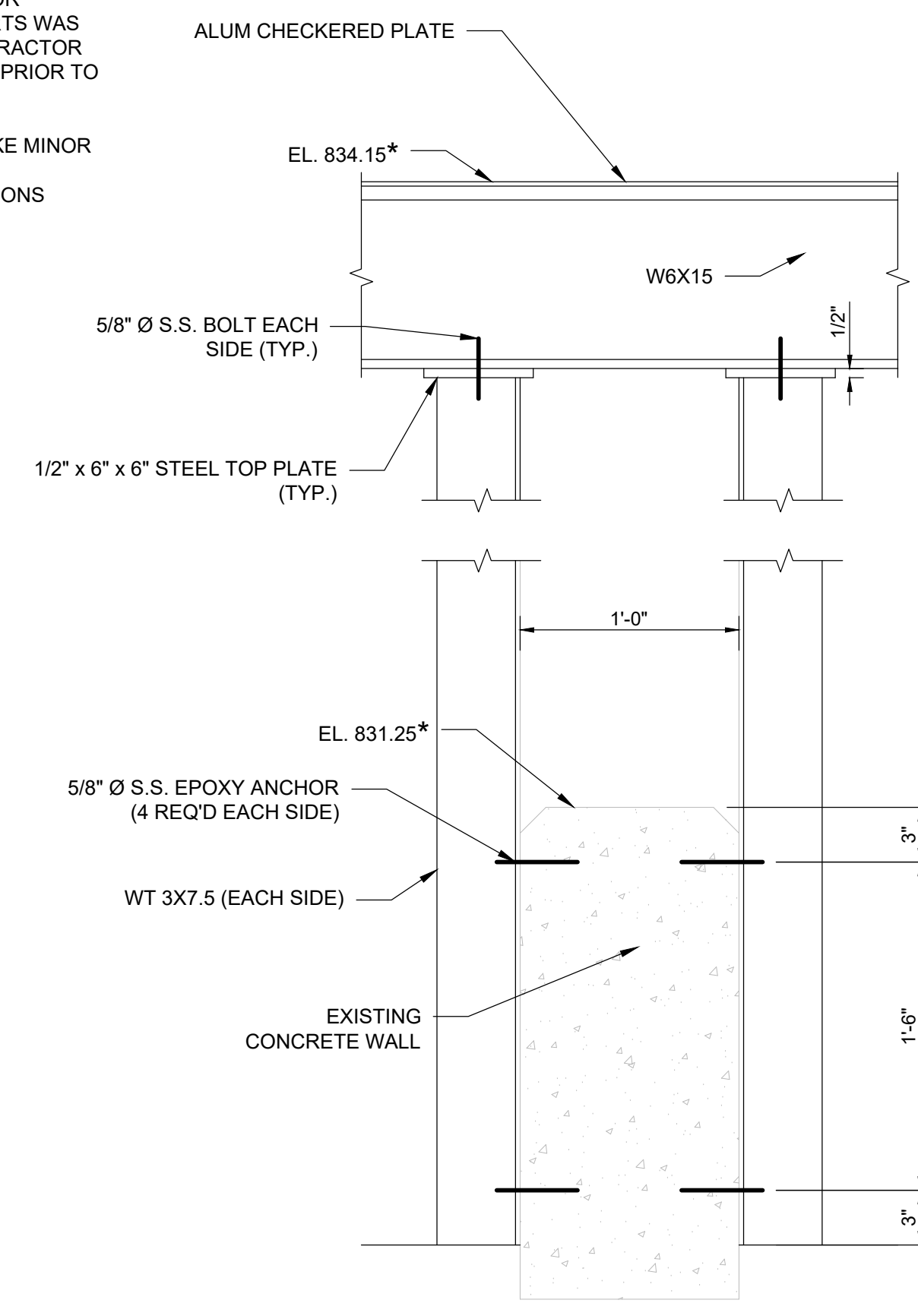
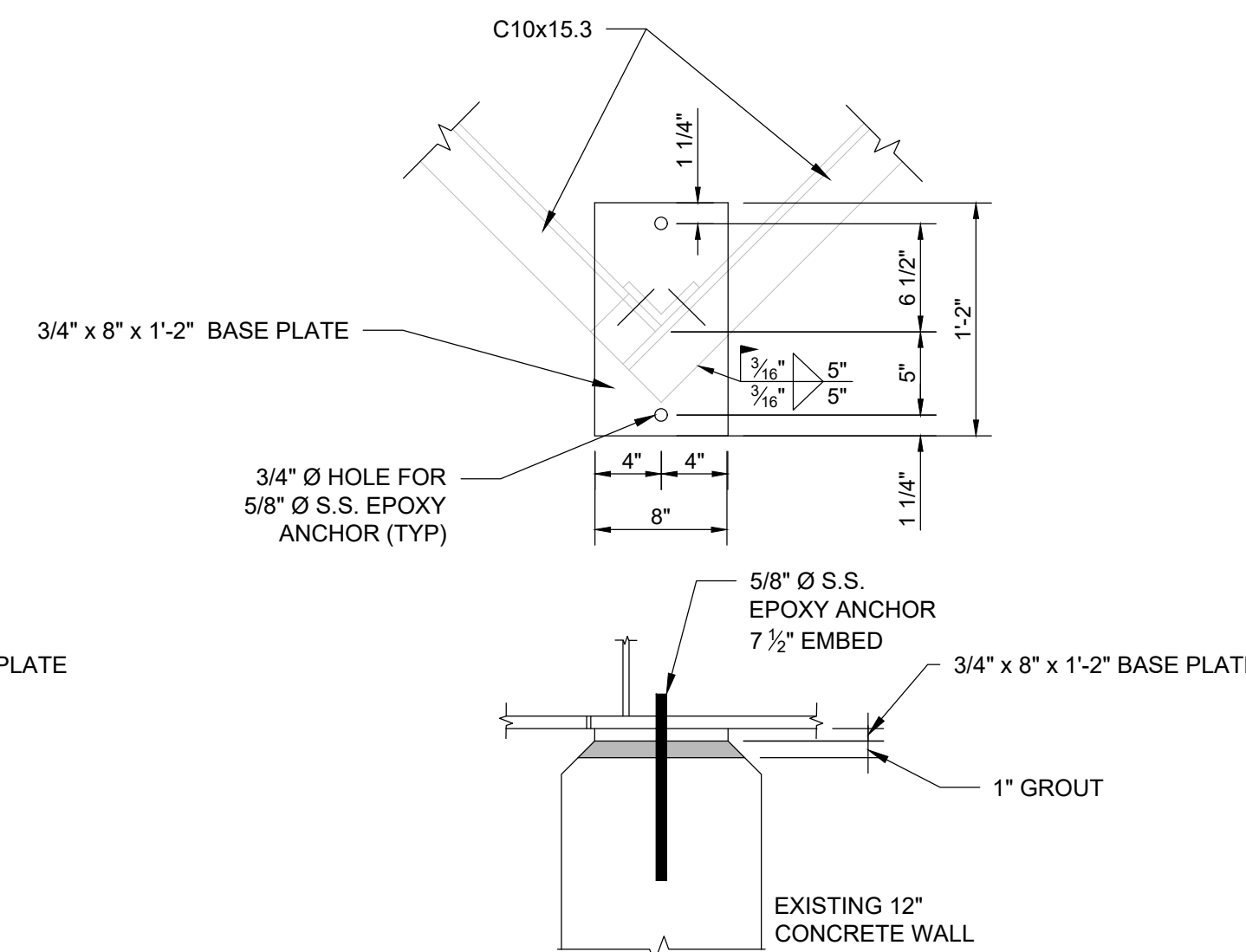
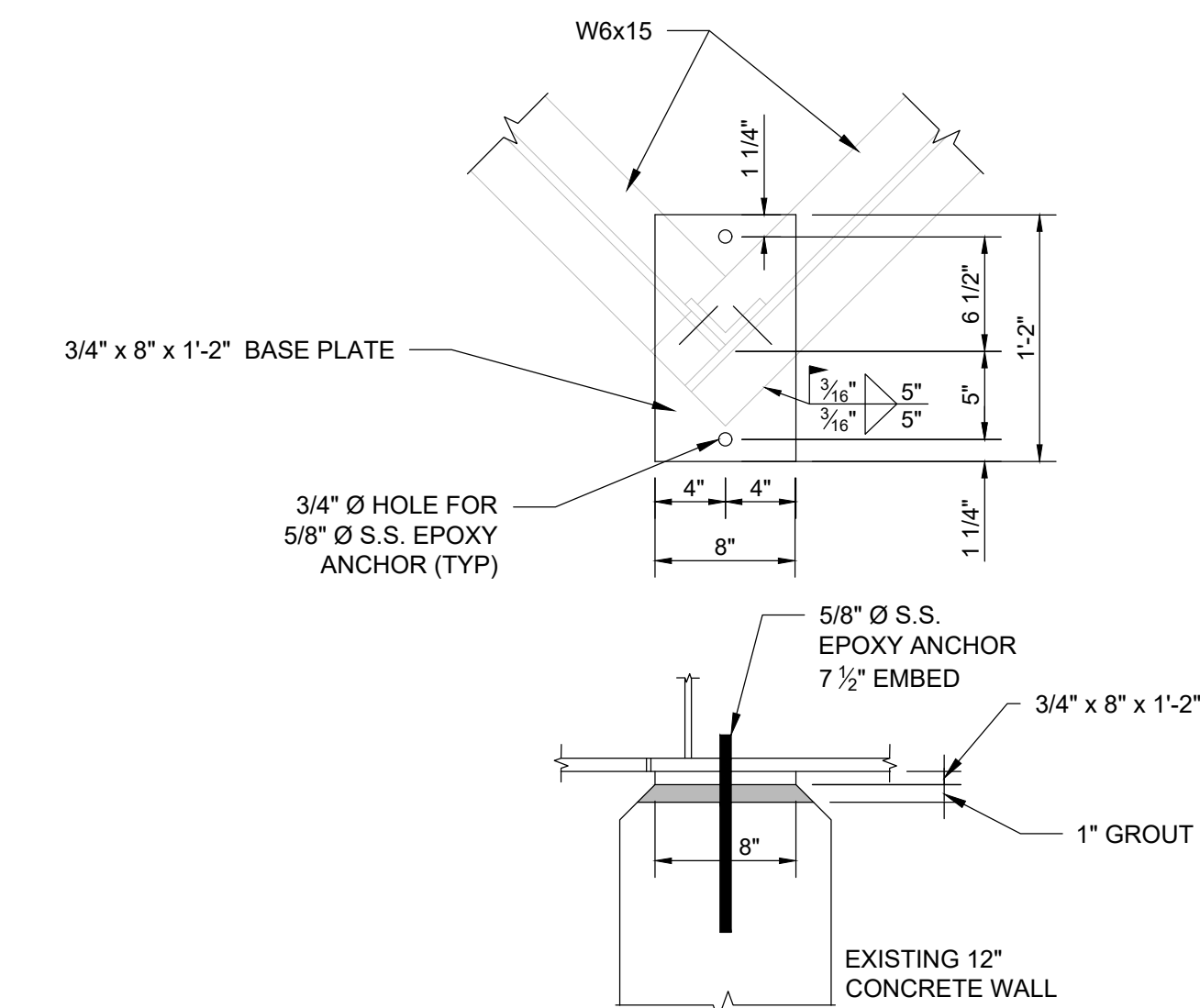
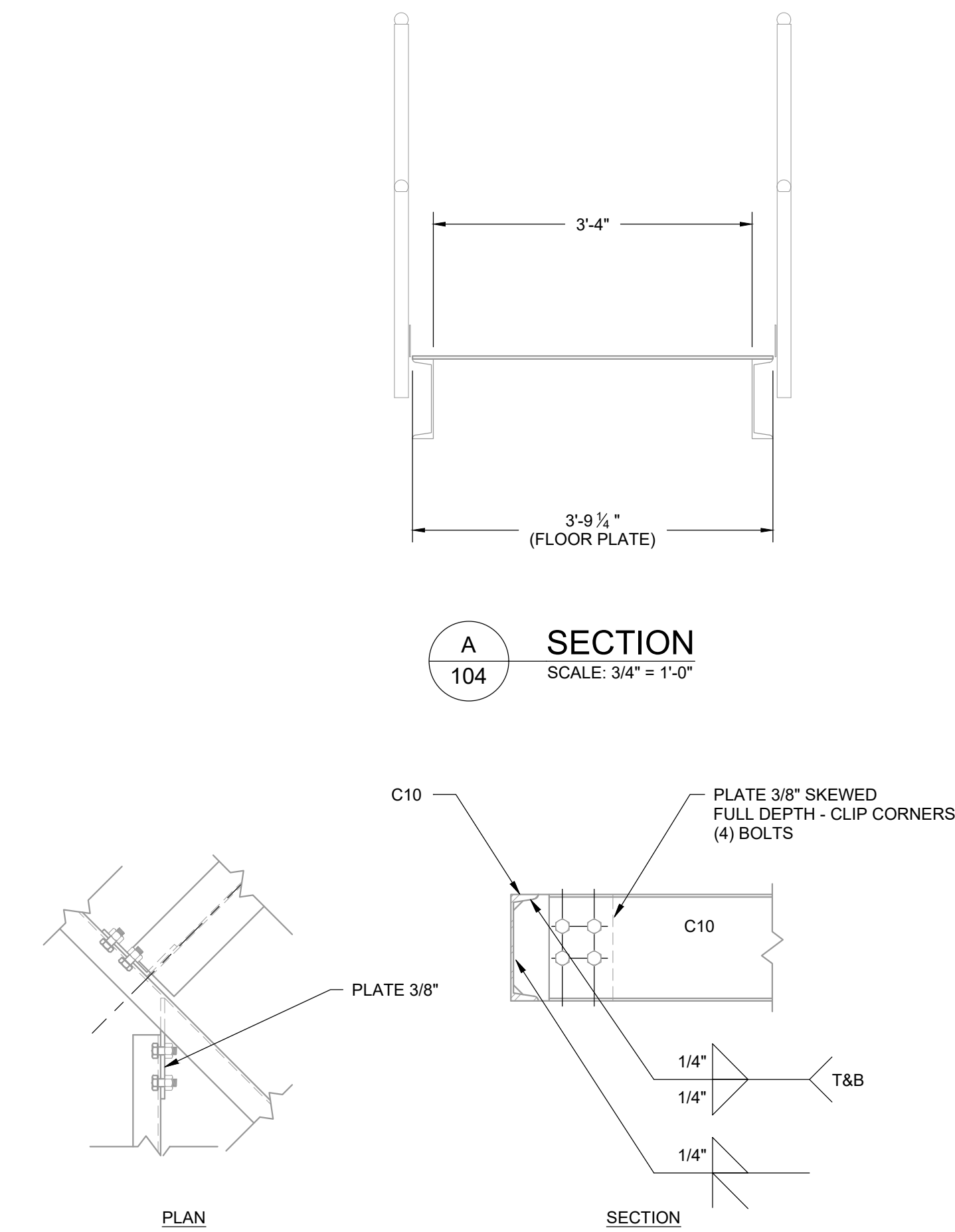
CTI Engineers, Inc.  
/s/ John L. King, P.E.  
Senior Project Manager

CLARIFIERS

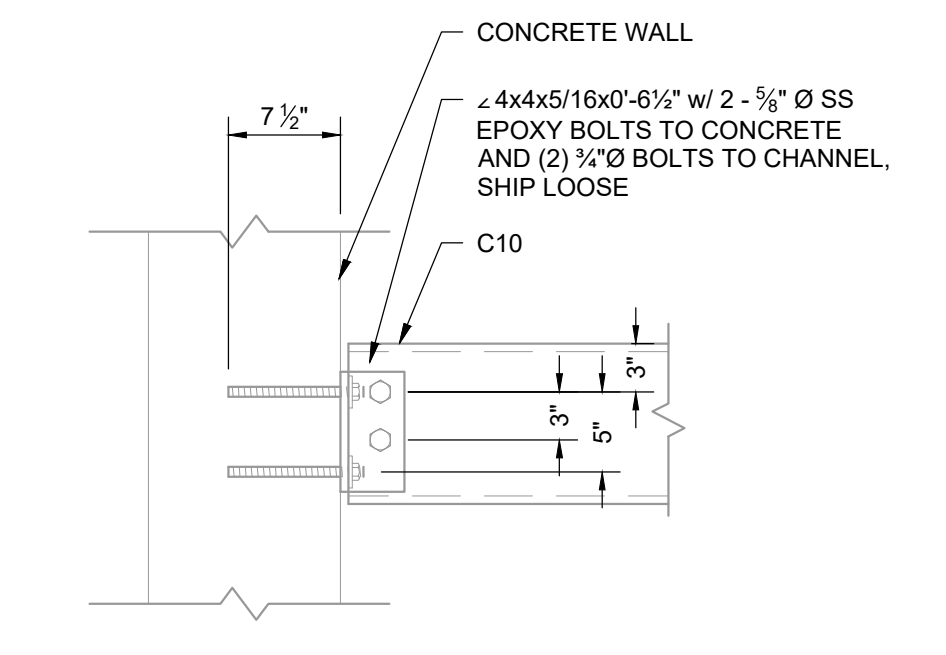


**CONTRACTOR NOTES:**

1. LIMITED AS BUILT INFORMATION FOR DIMENSIONS OF EXISTING SUPPORTS WAS AVAILABLE DURING DESIGN. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. CONTRACTOR IS ALLOWED TO MAKE MINOR ADJUSTMENTS IN DIMENSIONS TO ACCOMMODATE EXISTING CONDITIONS AFTER INFORMING ENGINEER OF DISCREPANCIES.



**FRAMING CONNECTION**  
NOT TO SCALE



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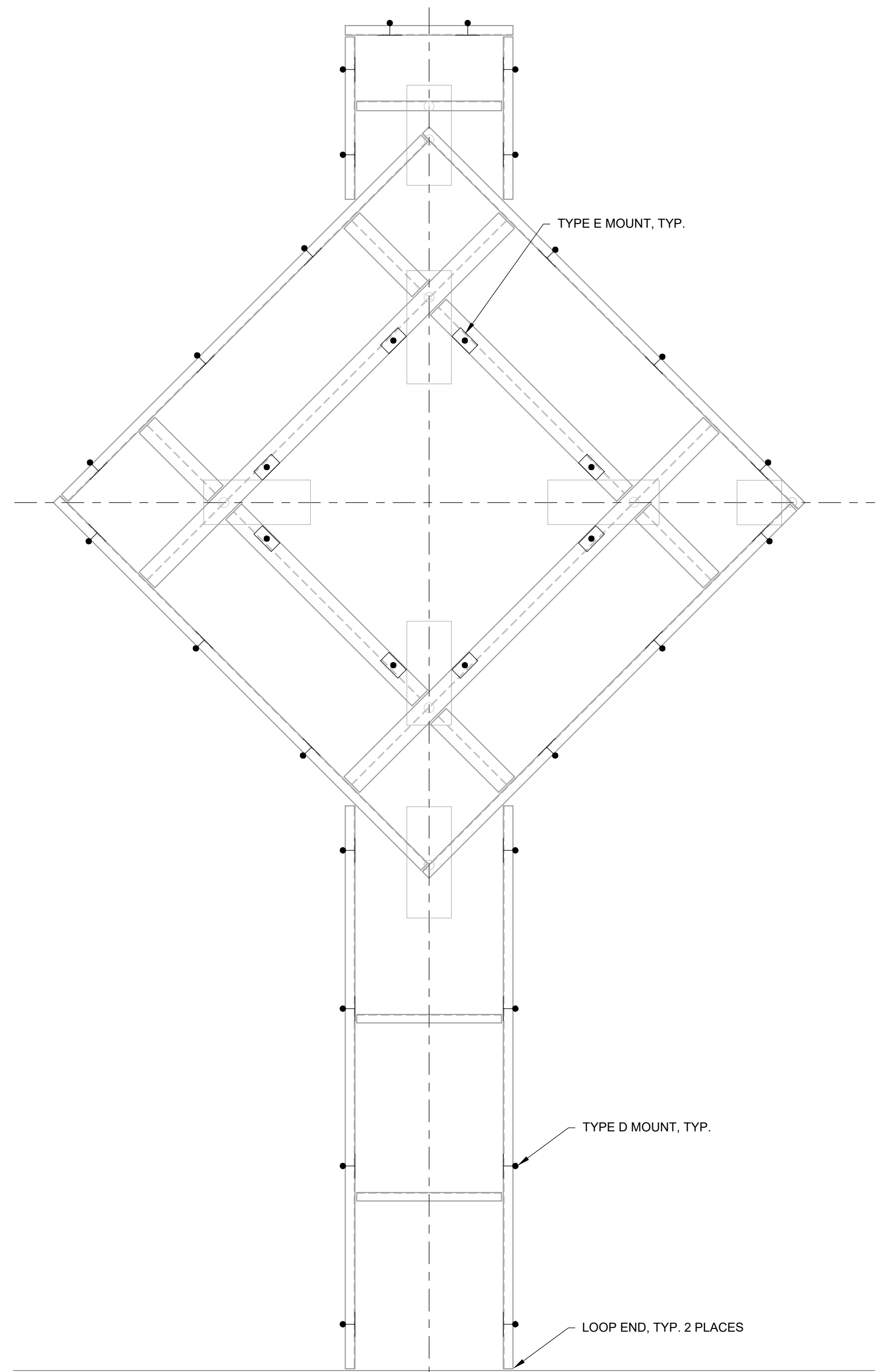
REVISIONS		DATE		BY		APPD	
NO.	DESCRIPTIONS	DATE	BY	PKG	KIL	PKG	KIL
1	CHANGED WALKWAY SYSTEM	5/30/23					

DESIGN		DRAWN		CHECKED		APPROVED	
PKG	PKG	GJM	GJM	KIL	KIL	KIL	KIL

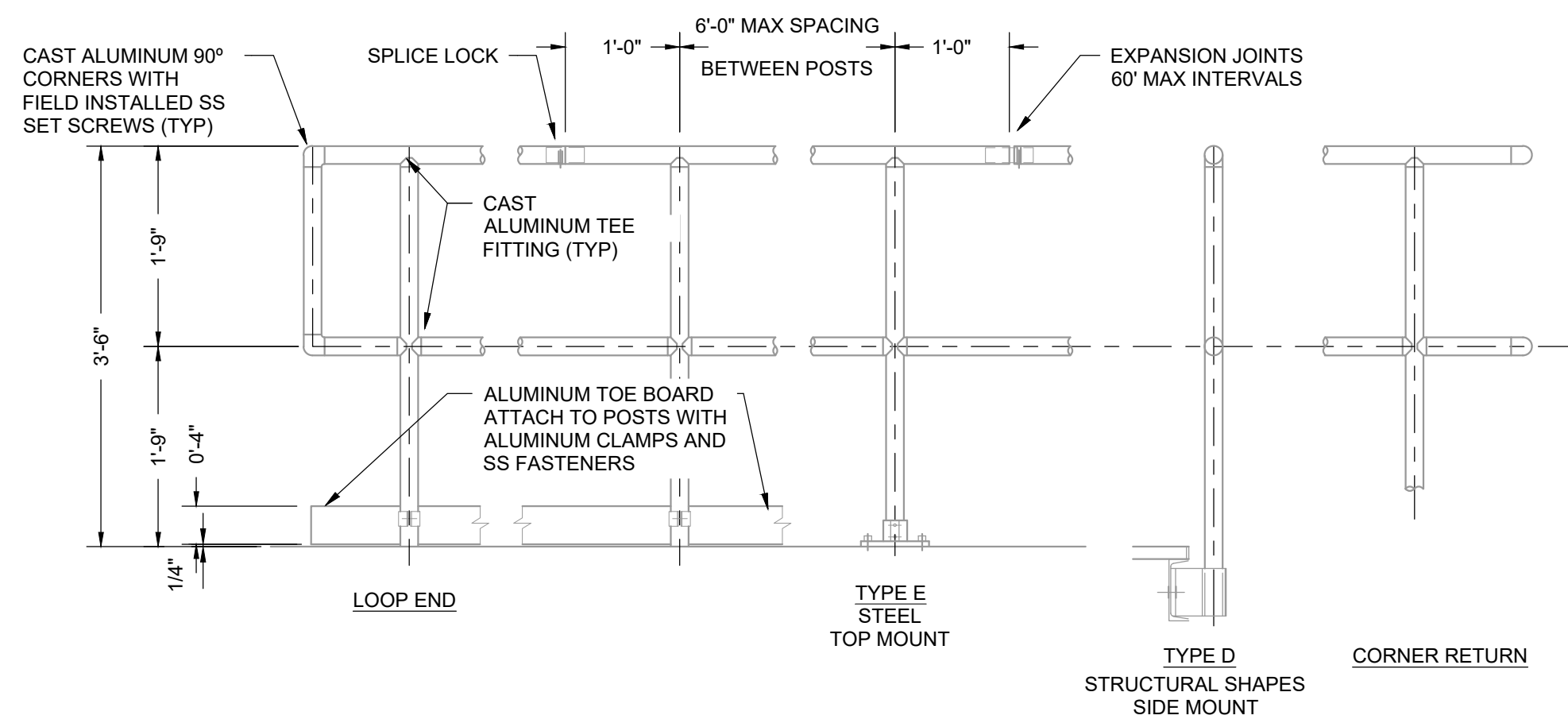
**HIWASSEE UTILITIES COMMISSION**  
**WATER TREATMENT PLANT**  
**FILTERS 1-4 REHABILITATION AND IMPROVEMENTS**  
**WALKWAY PLATFORM AND GUARDRAIL REPLACEMENT**  
**SHEET 1 OF 2**



JOB NO.  
K21011  
ISSUE DATE  
3-30-22  
DRAWING NO.  
104



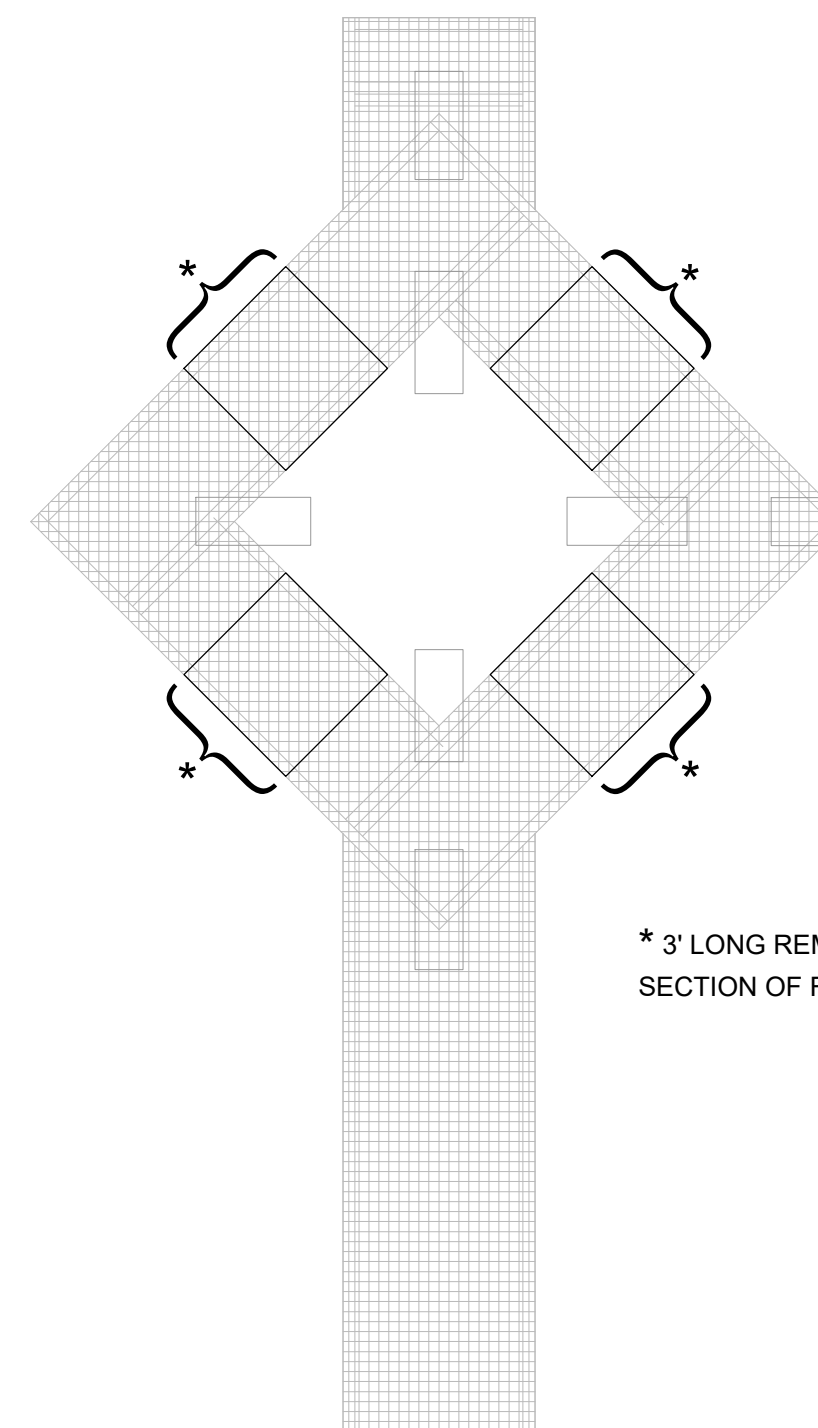
**GUARDRAIL LAYOUT DETAIL**  
SCALE: 1/2" = 1'-0"



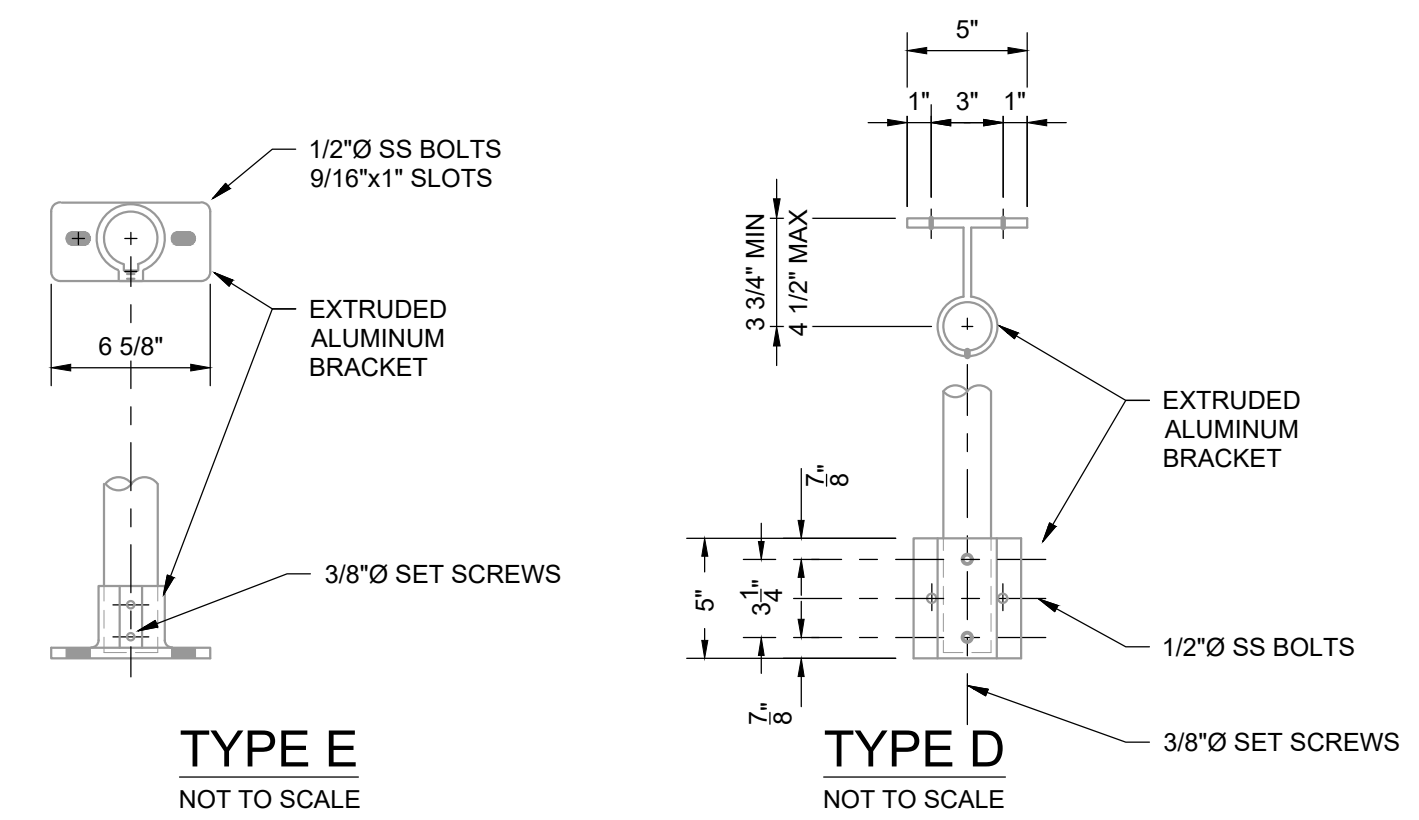
**TYPICAL GUARDRAIL**  
NOT TO SCALE

**NOTE:**

1. PROVIDE 3/8" ALUMINUM FLOOR PLATE.
2. ATTACH FLOOR PLATES TO STRUCTURAL MEMBERS W/ COUNTERSUNK HEAD #10 X 3/4" 18-8 S.S. SELF-TAPPING SCREWS SPACED 1" FROM THE PLATE EDGE AND AT 6" O.C. MAXIMUM.
3. PROVIDE NOTCH IN FLOOR PLATE TO ACCOMMODATE TOP MOUNTED POST BASE.
4. PROVIDE MYLAR ISOLATION BETWEEN FLOOR PLATES AND DISSIMILAR METALS OR OTHER MATERIALS.



**FLOOR PLATES**  
SCALE: 1/4" = 1'-0"



**TYPE E**  
NOT TO SCALE

**TYPE D**  
NOT TO SCALE

**GUARDRAIL NOTES:**

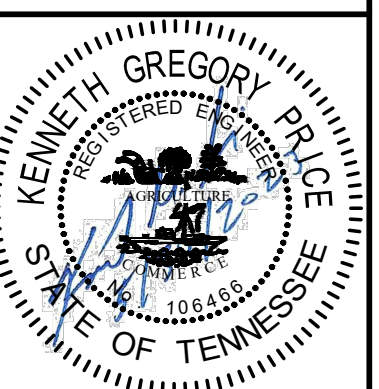
1. GUARDRAILS AND HANDRAILS SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
2. THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE SHALL BE SUBMITTED FOR APPROVAL AT THE REQUEST OF THE DESIGNER. COMPONENTS THAT ARE POP-RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. SIZES AND DIMENSIONS SHOWN ON DETAILS FOR COMPONENTS ARE FOR GUIDE PURPOSES ONLY. FABRICATOR MAY SUBMIT ALTERNATE SIZES.
3. RAILINGS SHALL BE 1 1/2"Ø SCHEDULE 40 ALUMINUM PIPE ALLOY 6105-T5, ASTM B-429 OR ASTM B-221. POSTS SHALL BE 1 1/2"Ø SCHEDULE 40 ALUMINUM PIPE OF THE SAME ALLOY. POST SPACING SHALL BE A MAXIMUM OF 4'-0".
4. GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A 200 LB CONCENTRATED LOAD APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE TOP RAIL.
5. THE MANUFACTURER SHALL SUBMIT CALCULATIONS FOR APPROVAL AT THE REQUEST OF THE DESIGNER. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
6. POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING, INCLUDING CORNERS AND END TERMINATIONS. THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
7. THE MID-RAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200 LB LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM AND PROVIDE PHYSICAL LABORATORY TESTS TO CONFIRM COMPLIANCE.
8. TOE PLATE SHALL CONFORM TO OSHA STANDARDS. TOE PLATE SHALL BE A MINIMUM OF 4" HIGH AND SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS THAT WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE PLATES SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE PLATES SHALL BE PROVIDED ON HANDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS. TOE PLATES SHALL BE SHIPPED LOOSE IN STOCK LENGTHS FOR FIELD INSTALLATION.
9. FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-R1). THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
10. ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS (EXCEPT PAINTED STEEL) WILL BE PROTECTED BY MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.

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REVISIONS		DATE	BY	APPD
NO.	DESCRIPTIONS	PKG	KIL	KIL
1	CHANGED GUARDRAIL SYSTEM	5/30/23		

DESIGN	PKG	DRAWN	GJM	CHECKED	KIL	APPROVED	KIL

**HIVASSEE UTILITIES COMMISSION**  
**WATER TREATMENT PLANT**  
**FILTERS 1-4 REHABILITATION AND IMPROVEMENTS**  
**WALKWAY PLATFORM AND**  
**GUARDRAIL REPLACEMENT**  
**SHEET 2 OF 2**



JOB NO.	K21011
ISSUE DATE	3-30-22
DRAWING NO.	105