

# Submittal Review



**Submittal:** Pre-selection Submittal 1-R3

**Contractor  
Submittal Ref.:**

**Clarifier Submittal GA  
Drawing Tanks 8 -  
Spec Section 11451 -  
WesTech Job #  
24946A, B, C**

**Project Name:** WWTP Rehab Secondary Clarifiers **Review Date:**

May 31, 2024

**Project No:** T001630A

**Client:**

City of Brantford

**Reviewers:** Graham Seggewiss (GS)  
Rebecca Pringlemeir (ARP)  
Tim Barichello (TB)  
Nathan Sherwood (NS)  
Jameson Palmer (JP)

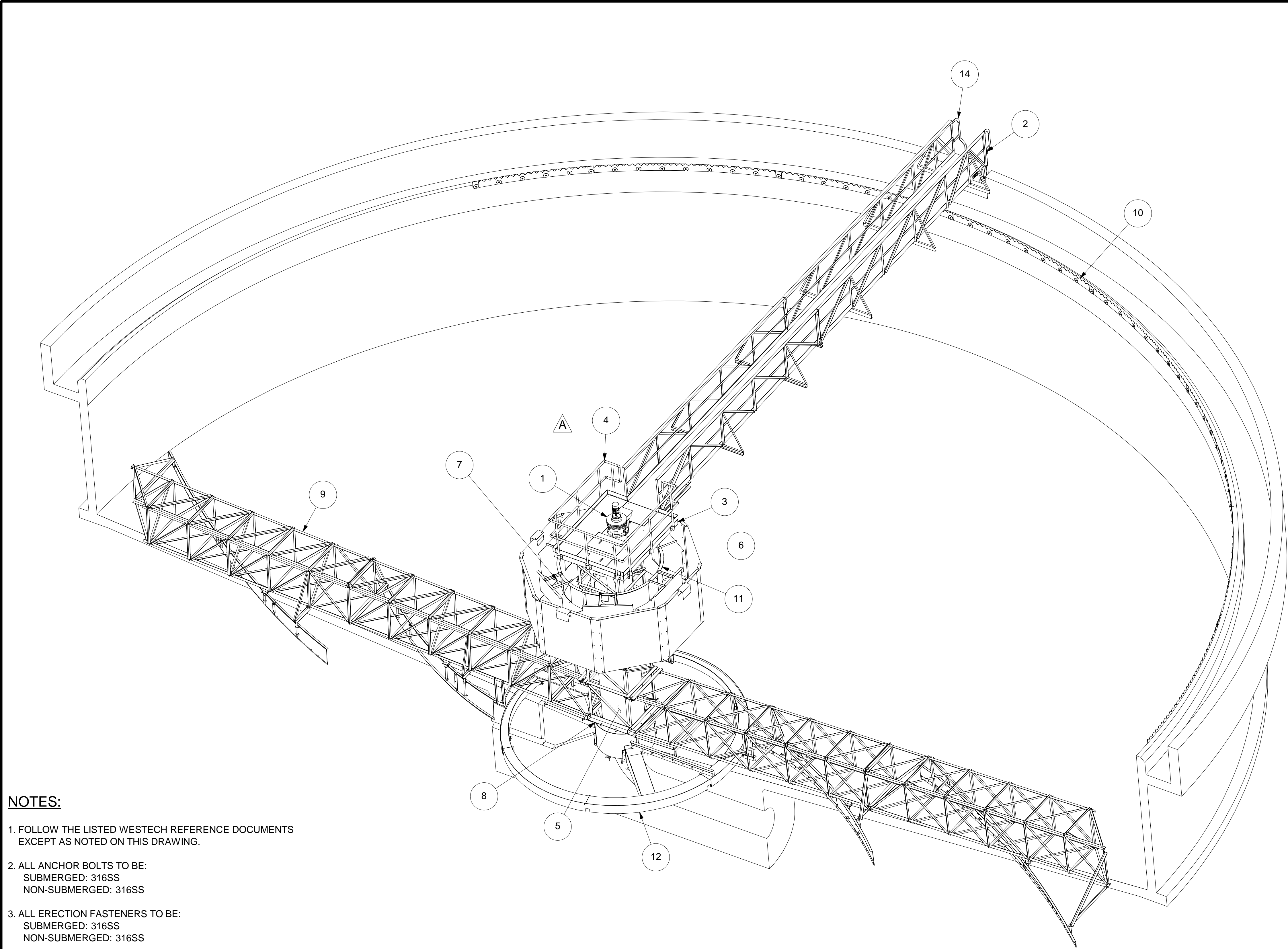
**Submittal Status:** 1 – No Comment  
2 – As Noted  
3 – Revise & Resubmit  
4 – Not Reviewed  
5 – Rejected

Item	Reference	Reviewer	Comment Status	Comment
1.		ARP / GS	2	Please confirm all forms required to contain concrete, gravel, etc. within the centre sludge withdrawal ring are provided by the vendor. See comment in drawings.

## Notes:

1. The Contractor's responsibility for errors and omissions in a submittal is not relieved by the Engineer's review of the submittal. Review by the Engineer is for general conformance with the design concept and compliance with the Contract documents.
2. The Engineer's review does not relieve the Contractor of their responsibility to meet all contractual requirements. Deviations must be noted on the cover sheet of the Contractor's submission.

	<b>SUBMITTAL REVIEW</b>
<b>NATURE AND EXTENT OF REVIEW:</b> This document has been reviewed to verify conformity with the Contract Plans and Specifications. <b>THE DESIGN OF THE PRODUCT DESCRIBED ON THIS DOCUMENT HAS NOT BEEN VERIFIED.</b> The review of this document does not relieve the contractor or his engineer, if applicable, of their responsibilities regarding dimensions, quantities, and workmanship which must satisfy the requirements of the Contract.	
DATE (dd/mm/yyyy)	31/05/2024
<b>REMARKS</b> See remarks on the document (if any)	
NO COMMENT <input type="checkbox"/> AS NOTED <input checked="" type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED <input type="checkbox"/>	
REVIEWER'S NAME Graham Seggewiss	REV. NO. <b>R3</b>
SIGNATURE 	



NOTES:

- 1. FOLLOW THE LISTED WESTECH REFERENCE DOCUMENTS EXCEPT AS NOTED ON THIS DRAWING.
- 2. ALL ANCHOR BOLTS TO BE:  
SUBMERGED: 316SS  
NON-SUBMERGED: 316SS
- 3. ALL ERECTION FASTENERS TO BE:  
SUBMERGED: 316SS  
NON-SUBMERGED: 316SS
- 4. WESTECH WILL PROVIDE: (1) 32m [105'-0] DIAMETER CAGE DRIVE SECONDARY CLARIFIER 8
- 5. ALL DIMENSIONS ARE METRIC [IMPERIAL].

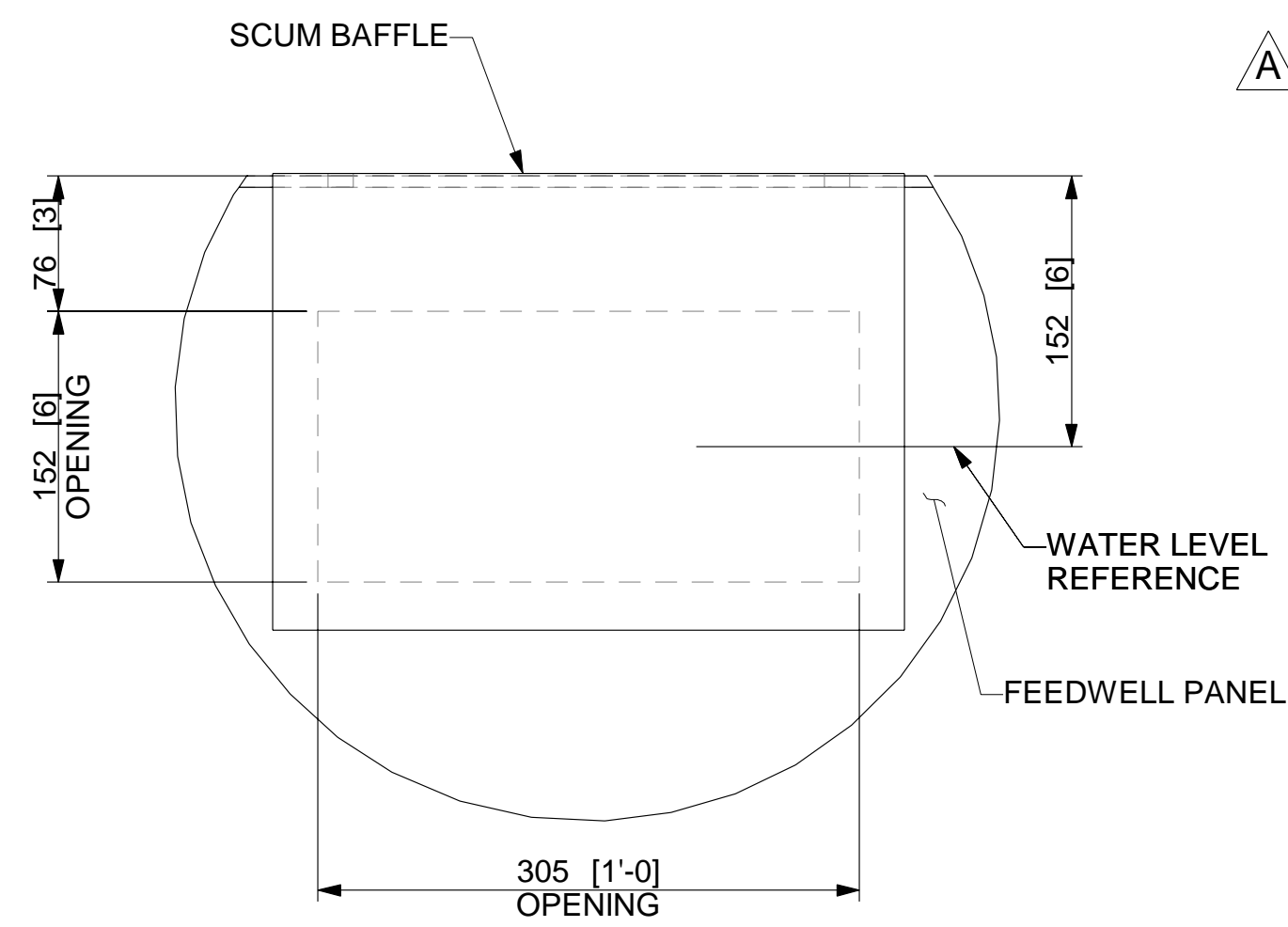
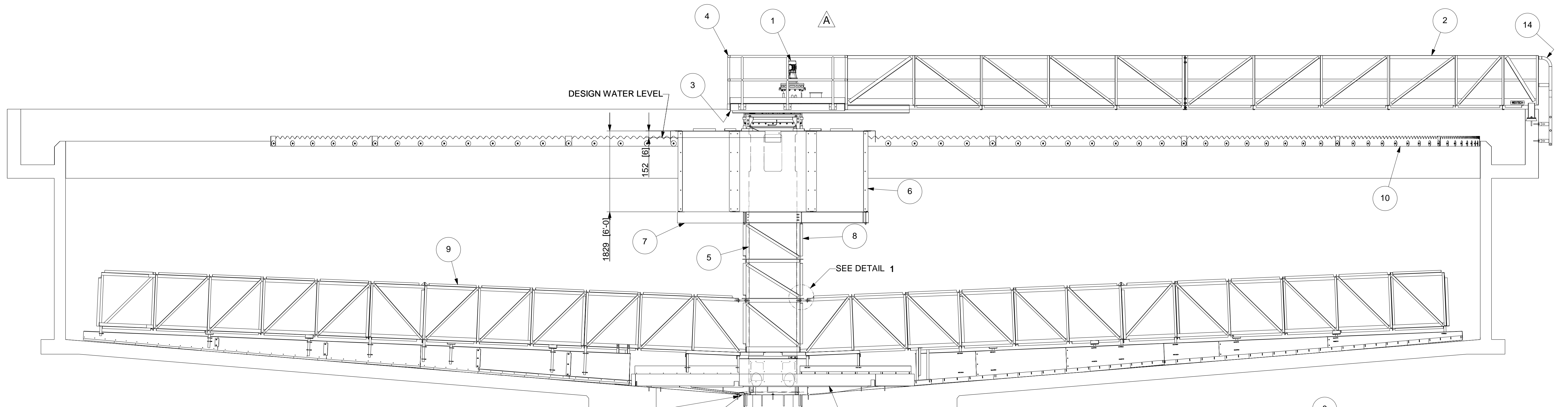
SECONDARY CLARIFIER 8 PROCESS DESIGN INFORMATION PER UNIT		
AVERAGE DAILY FLOW	14157 [3.7399]	m <sup>3</sup> /d [MGD]
DESIGN FLOW (MAXIMUM MONTH)	19496 [5.1502]	m <sup>3</sup> /d [MGD]
MAXIMUM SUSTAINED FLOW (MAXIMUM DAY)	28883 [7.63]	m <sup>3</sup> /d [MGD]
PEAK HOURLY FLOW	40731 [10.76]	m <sup>3</sup> /d [MGD]
DESIGN INFLUENT MLSS	3000	mg/L
DESIGN INFLUENT SVI	130	mL/g
DESIGN RAS FLOW	6511 [1.72]	m <sup>3</sup> /d [MGD]
MAXIMUM RAS FLOW	14157 [3.7399]	m <sup>3</sup> /d [MGD]

A	RAS WITHDRAWAL UPDATED; COLUMN WAS 914[3'-0]; LOCAL CONTROLS REMOVED. ADDED ADDITIONAL LADDER ANCHOR.	ECN	RI74	ME75	2024-08-28
REV	REVISION DESCRIPTION	ECN	DESIGNER	APPROVER	DATE

EQUIPMENT LIST	
ITEM	DESCRIPTION/REMARKS
1	DRIVE UNIT, 1067 [42]" WITH TORQUE CONTROL DEVICE 48471 Nm [35750 FTLBS] CONTINUOUS RUNNING TORQUE
2	WALKWAY, 914 [3'-0] WIDE (304LSS) GRATING, 32 [1 1/4] (ALUMINUM)
3	PLATFORM, 2591 [8'-6] LONG x 2134 [7'-0] WIDE (304LSS) MINIMUM 610 [2'-0] CLEARANCE AROUND DRIVE FLOORPLATE, 10 [3/8] (ALUMINUM)
4	HANDRAIL, 38 [1 1/2] NOMINAL DIAMETER x 1067 [3'-6] HIGH, 2-RAIL (ALUMINUM) RIVET, SUB-ASSEMBLED (SHIPPED LOOSE) 127 [5] x 6 [1/4] TOE-BOARD (ALUMINUM)
5	CENTER COLUMN, Ø 1092 [3'-7] (OUTSIDE) x 6 [1/4] THICK (304LSS) WITH PORTS
6	FEEDWELL, Ø 4270 [14'-0 1/8] (INSIDE) x 1829 [6'-0] SIDEDEPTH x 6 [1/4] THICK (304LSS) 4-BAFFLED SCUM PORTS
7	FEEDWELL SUPPORTS (304LSS)
8	DRIVE CAGE, 1219 [4'-0] SQUARE (304LSS)
9	RAKE ARMS, 1219 [4'-0] WIDE x 1219 [4'-0] HIGH (304LSS) SPIRAL AND SLUDGE SCRAPER BLADES ADJUSTABLE SQUEEGEES (304SS)
10	WEIR PLATE, 229 [9] DEEP x 6 [1/4] (FRP) V-NOTCHES, 90° x 64 [2 1/2] DEEP AT 153 [6] INTERVALS
11	ENERGY DISSIPATING INLET WELL (EDI) WITH MULTIPLE INLET GATES Ø 2591 [8'-6] (INSIDE) x 1219 [4'-0] SIDEDEPTH x 5 [3/16] THICK (304LSS)
12	SLUDGE WITHDRAWAL RING WITH 381 [1'-3] TO 102 [4]" INSIDE WIDTH TAPER Ø 6401 [21'-0] (OUTSIDE) x 267 [10 1/2] INSIDE HEIGHT x 6 [1/4] THICK (304LSS)
13	N/A
14	BRIDGE ACCESS LADDER (304LSS)

PREPARED FOR:	BRANTFORD WWTP SECONDARY CLARIFIERS REHABILITATION BRANTFORD, ONTARIO, CANADA
ENGINEER:	CIMA+
CONTRACTOR:	
P.O./CONTRACT NUMBER	2022-92

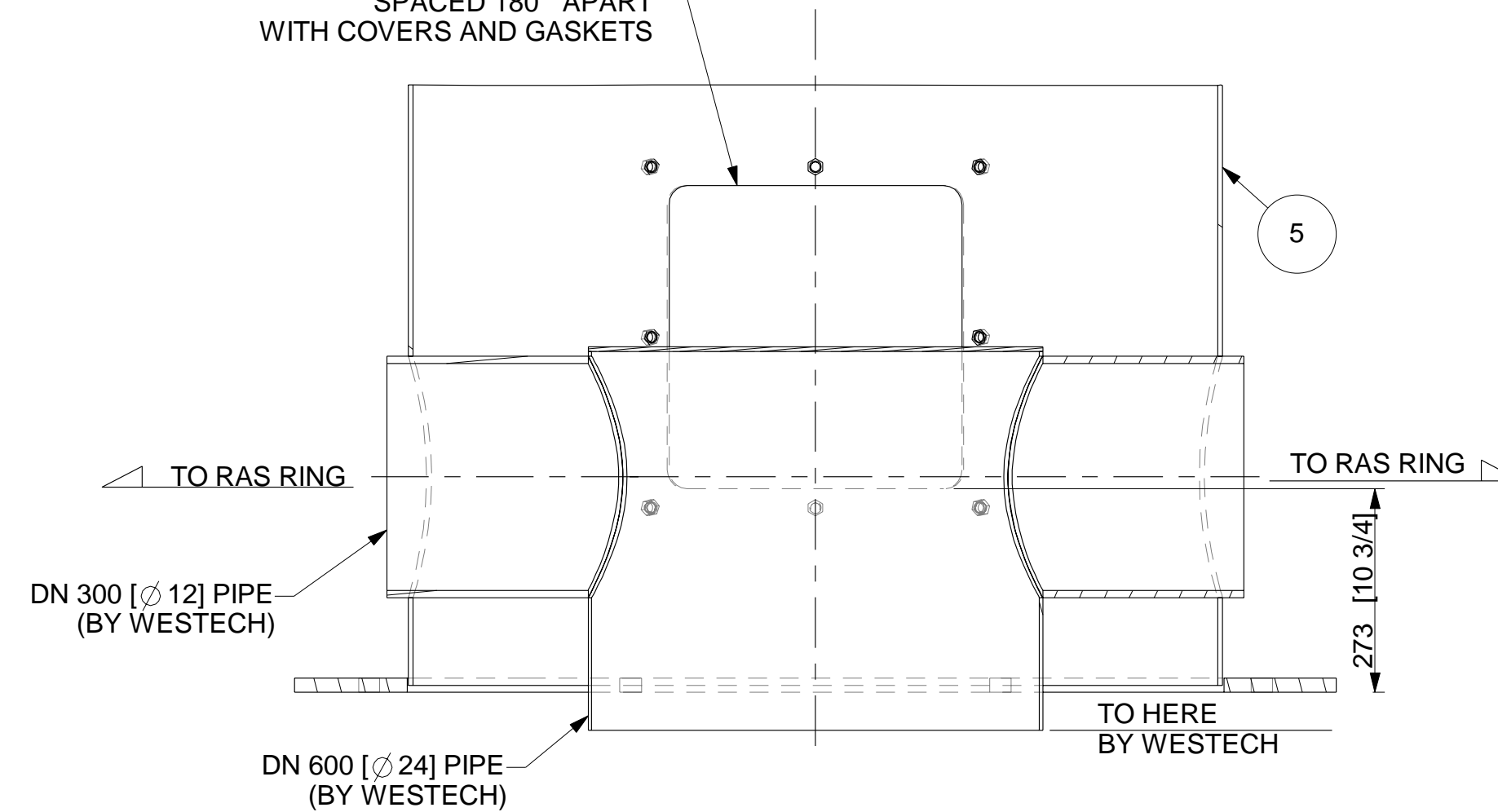
<div>WestTech®</div> <div>THIS DRAWING IS PROPERTY OF WESTTECH ENGINEERING, LLC AND IS TRANSMITTED IN CONFIDENCE. NEITHER RECEIPT NOR POSSESSION CONFERS OR TRANSFERS ANY RIGHTS TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR IN PART, DATA CONTAINED HEREIN FOR ANY PURPOSE WITHOUT THE WRITTEN PERMISSION OF WESTTECH ENGINEERING, LLC.</div>				
TITLE: GENERAL ARRANGEMENT Ø 32004 [105'-0] SECONDARY CLARIFIER 8 COPC1G				
DESIGNER RI62	CHECKER SA103	APPROVER ME75	DATE 2023-08-28	
JOB NUMBER 24946C	DOCUMENT NUMBER 0003408851		SHEET 1 OF 5	REV -



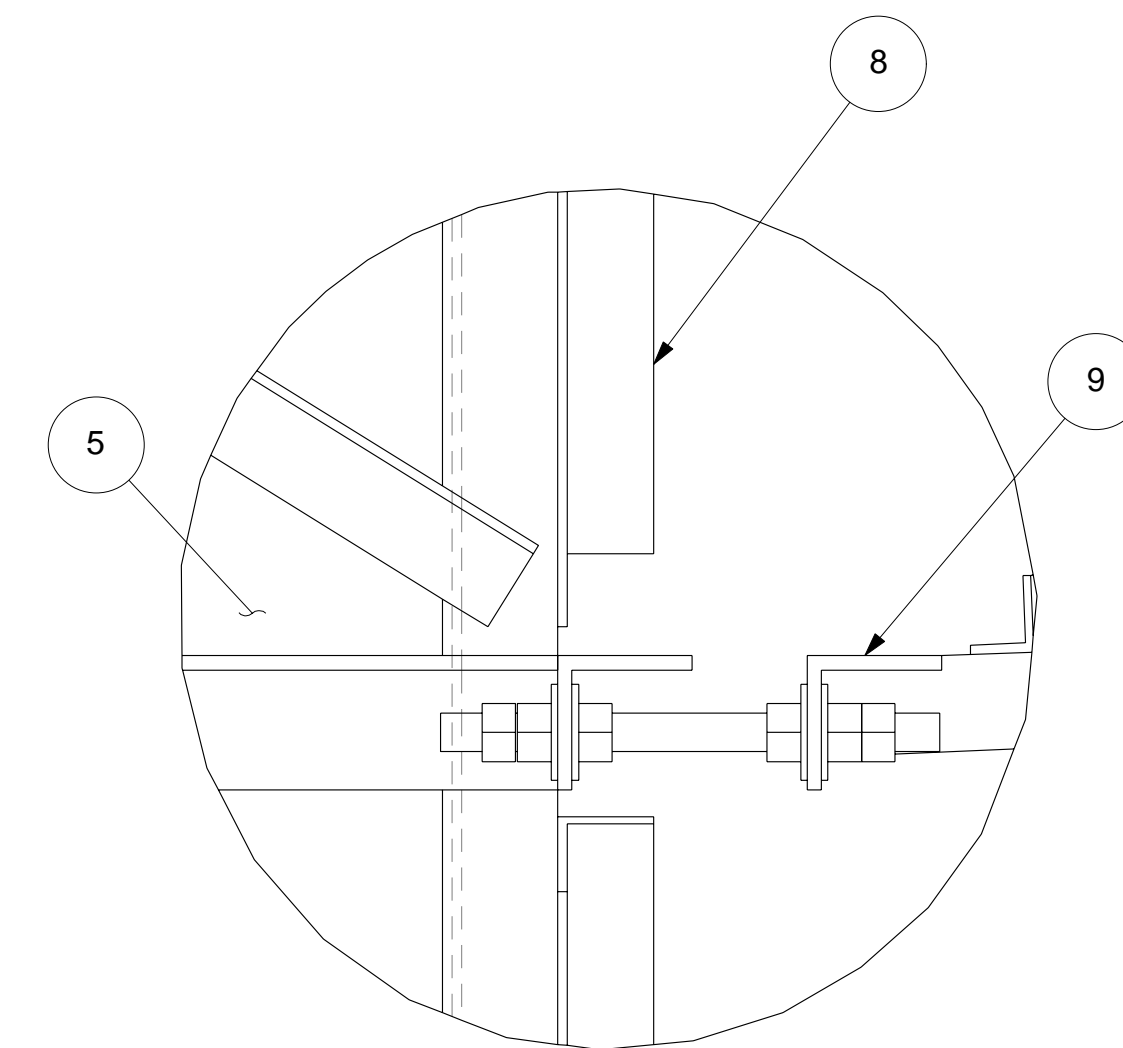
**FEEDWELL BAFFLE DETAIL**  
SCALE 0.250

**A** CONTRACTOR TO FILL  
WAS PIT/RAS MANIFOLD  
OVERLAP WITH GROUT

(2) 355 [1'-2"] x 355 [1'-2"]  
COLUMN ACCESS PORTS  
SPACED 180° APART  
WITH COVERS AND GASKETS



**RAS CONNECTION DETAIL**  
SCALE 0.125



**DETAIL 1**  
SCALE 0.200

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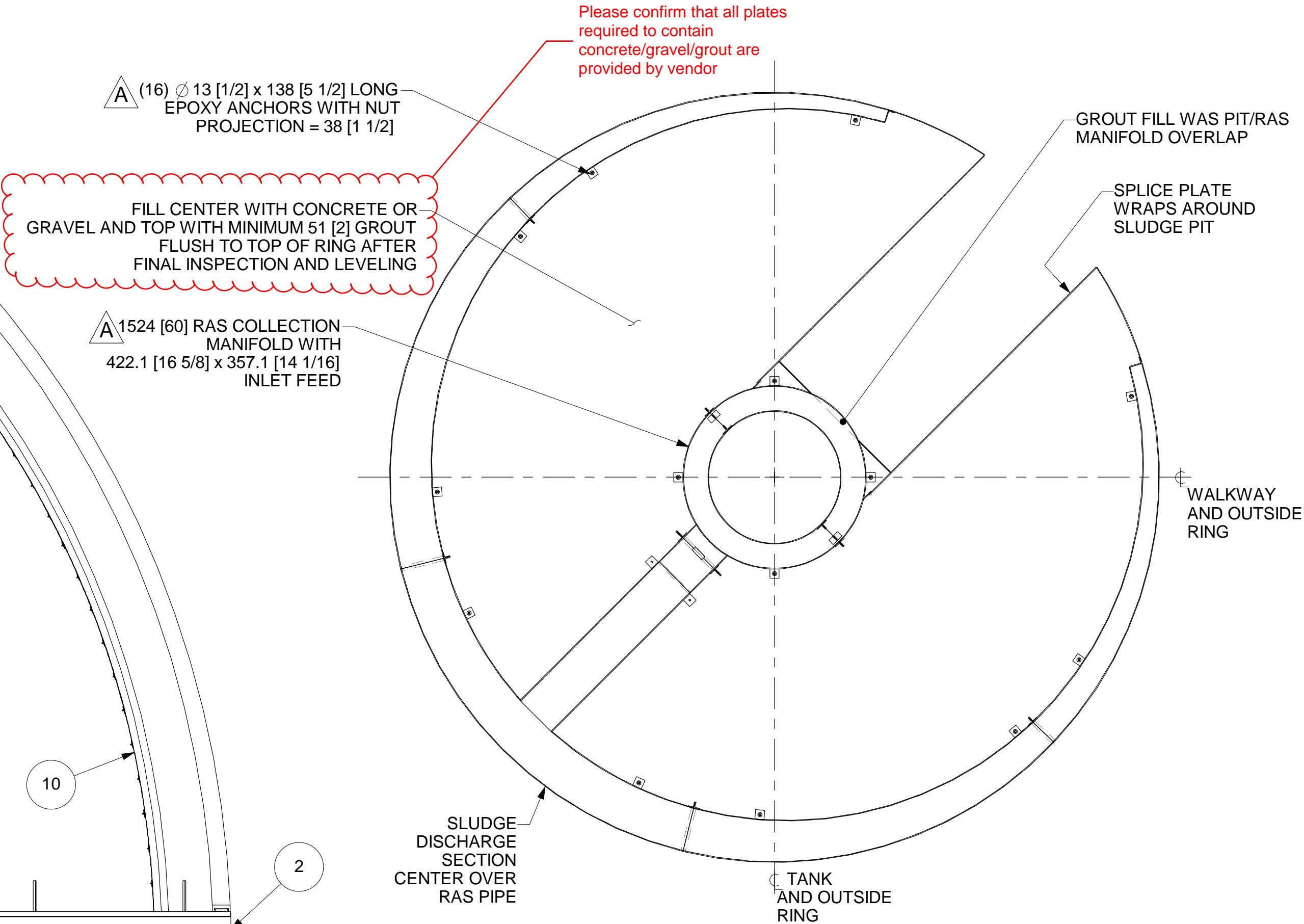
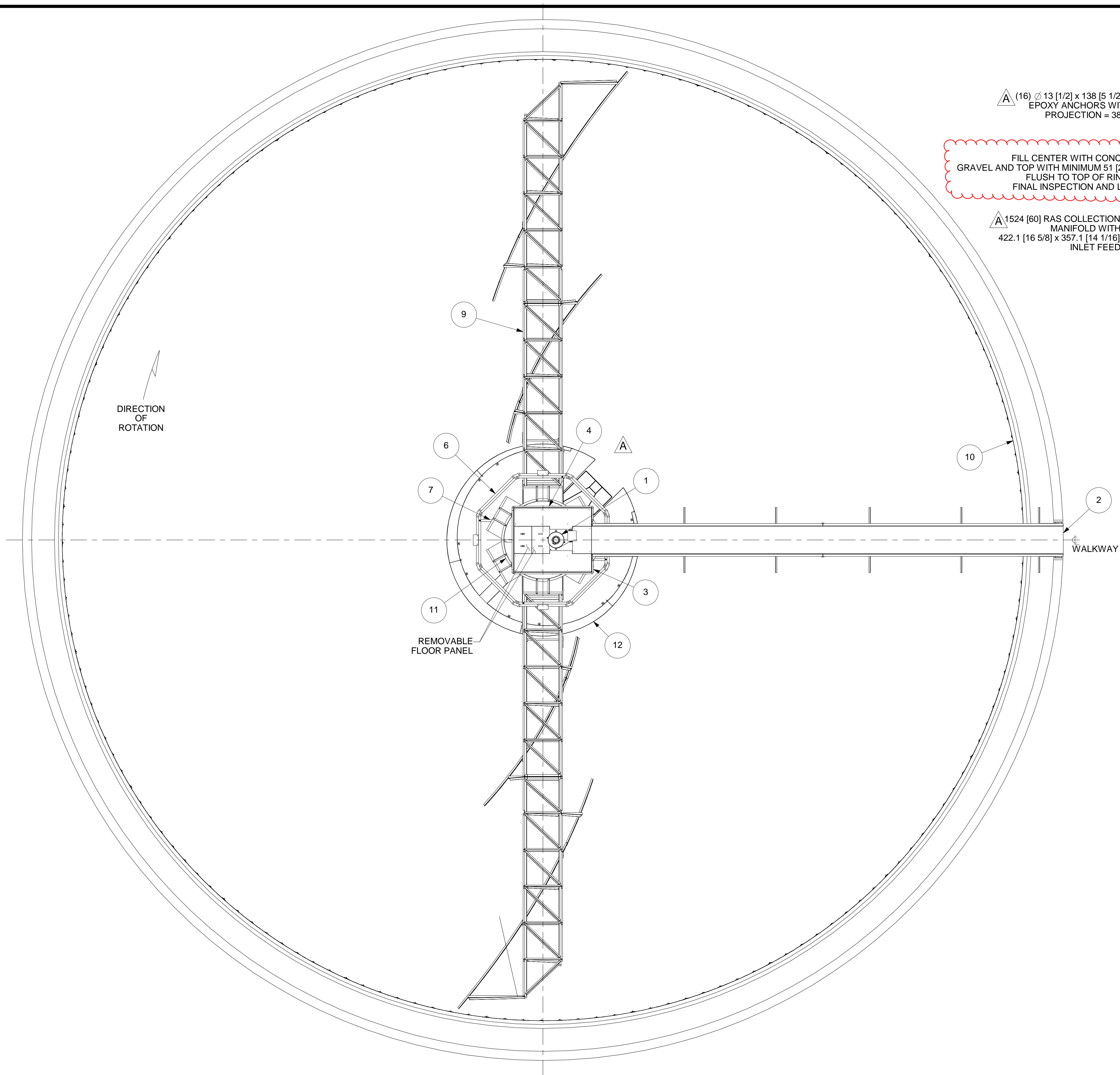
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<b>24946C</b>	<b>0003408851</b>	2 OF 5	-





**SLUDGE WITHDRAWAL RING PLAN VIEW**  
SCALE 0.031  
OUTSIDE OF SLUDGE RING IS CENTERED IN TANK.  
RING MOUNTS DIRECTLY ON CONCRETE FLOOR WITH  
ANCHOR BOLTS BEFORE FLOOR GROUT IS POURED.  
SEE OTHER VIEW FOR ORIENTATION.

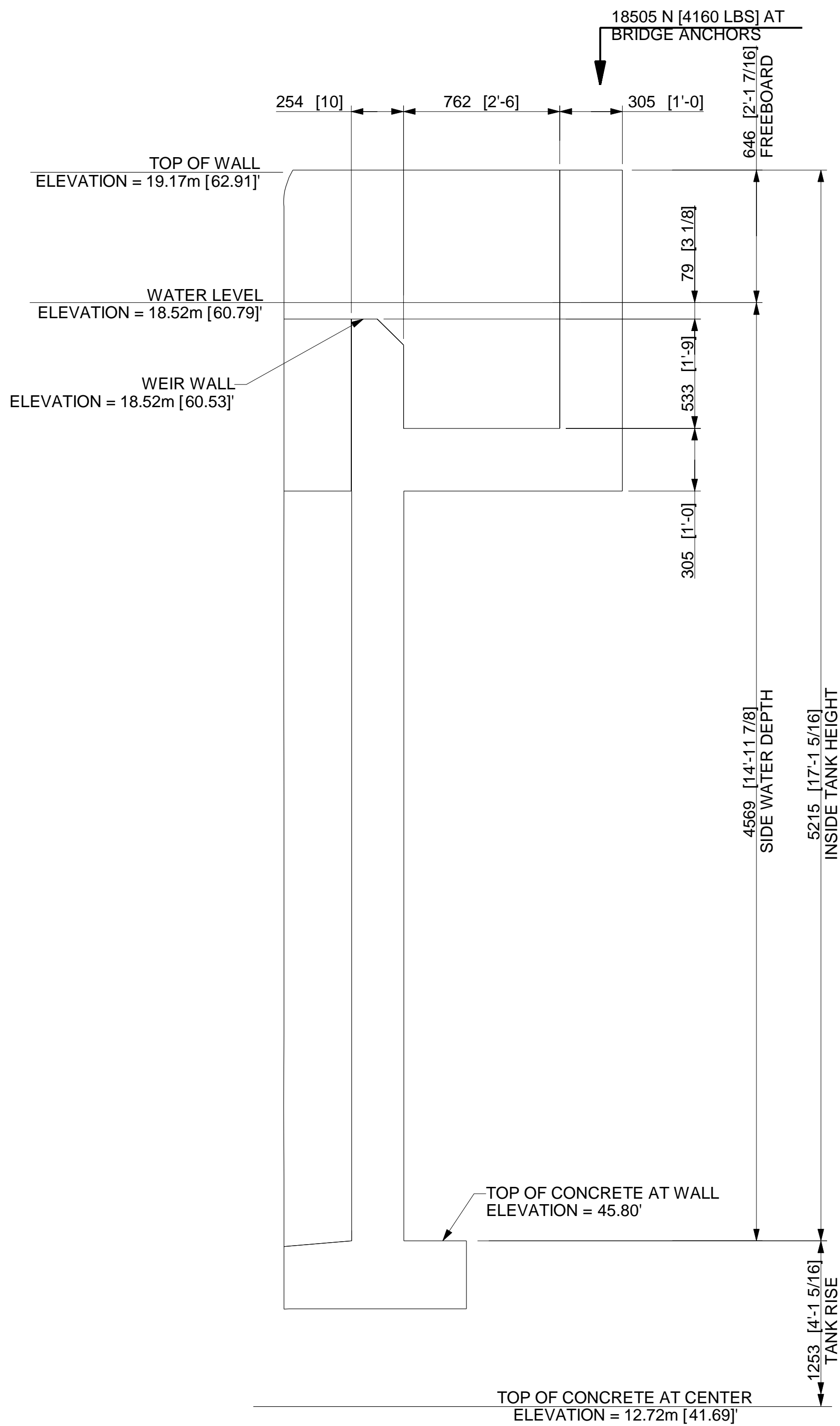
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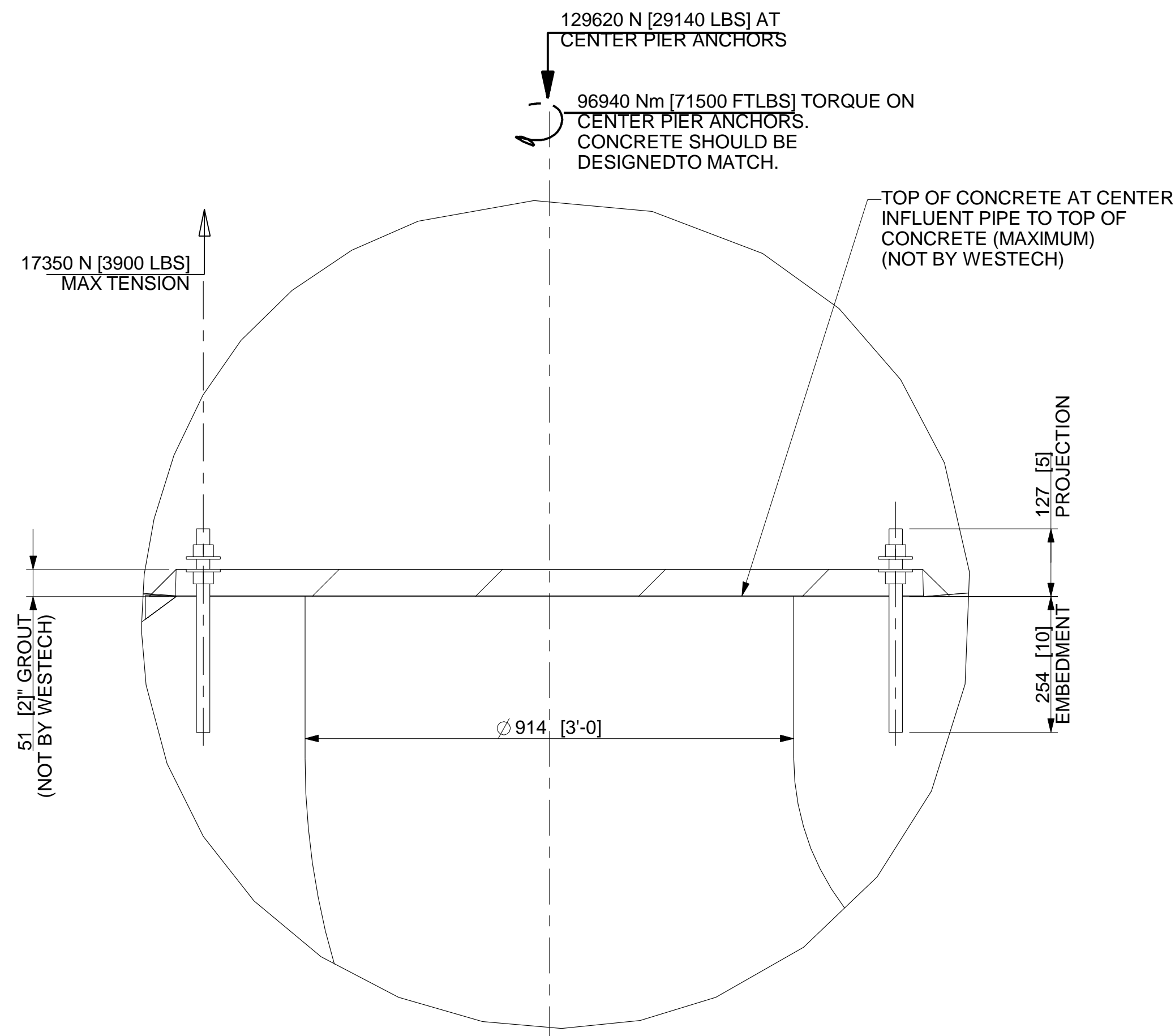
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24946C	0003408851		3 OF 5	-



DETAIL 2  
SCALE 0.055



DETAIL 3  
SCALE 0.125


1. CONCRETE DESIGN IS NOT BY WESTECH. IT IS THE RESPONSIBILITY OF THE ENGINEER TO ENSURE THAT THE CONCRETE IS ADEQUATE TO SUPPORT THE LOADS SHOWN ON DRAWINGS.

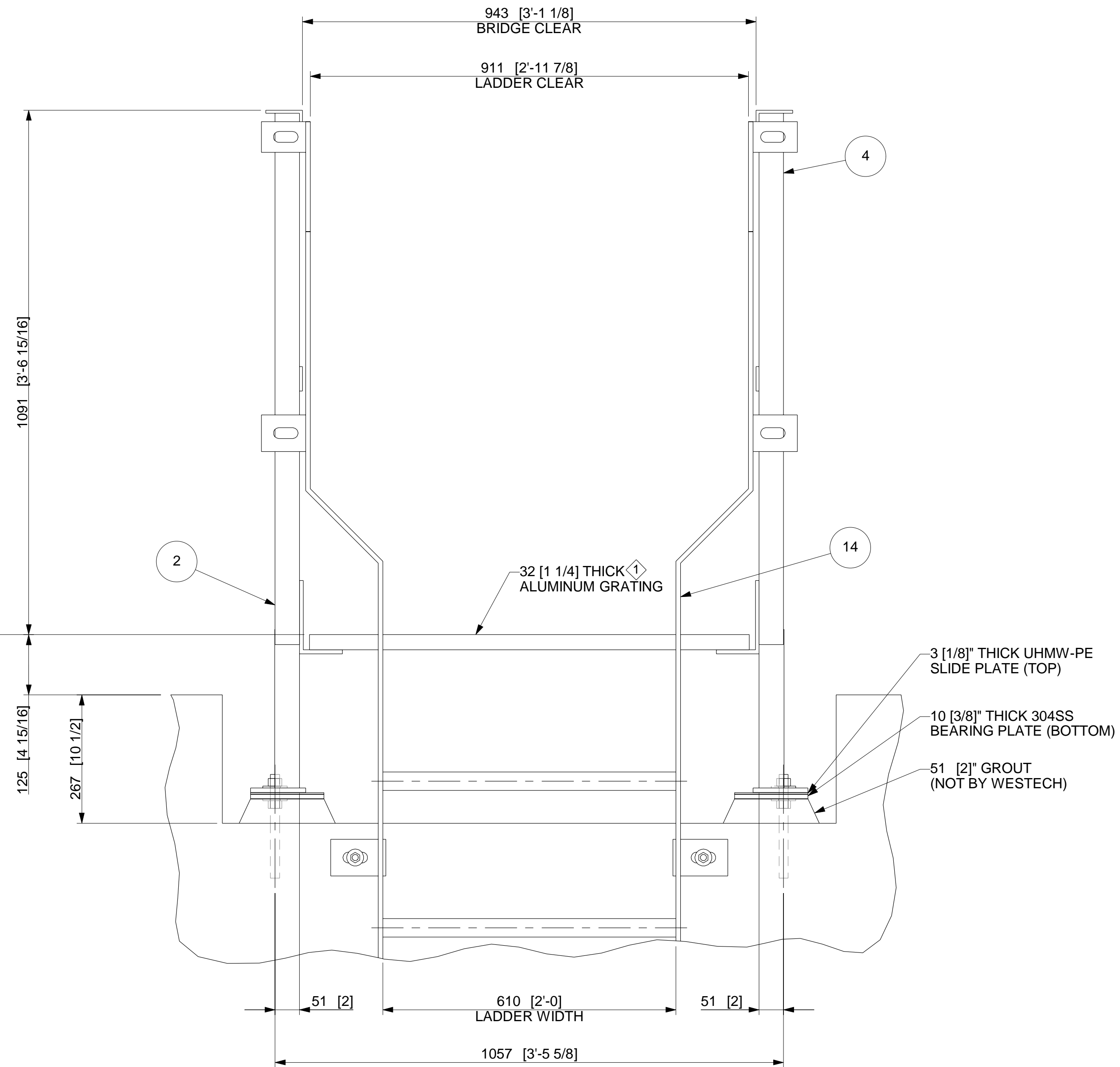
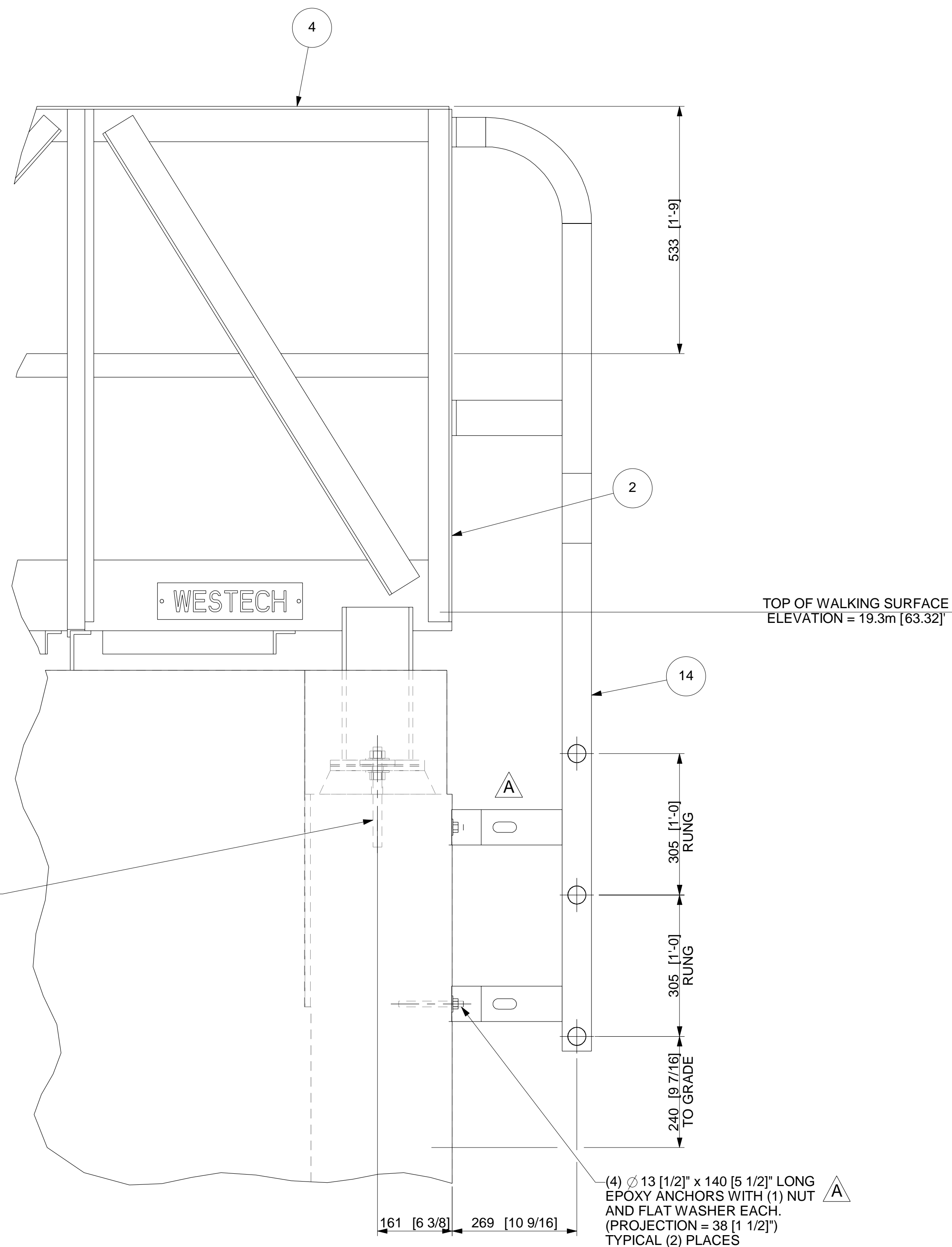
2. ALL LOADS ARE NON-FACTORED UNLESS NOTED OTHERWISE.

3. INFLUENT, EFFLUENT, SLUDGE, AND SCUM PIPE LOCATION PER ENGINEERS DRAWINGS.

4. STANDARD HOLE CLEANING FOR THREADED ROD REQUIRED. REFER TO EPOXY MANUFACTURER'S RECOMMENDED CLEANING REQUIREMENTS.

5. WESTECH RECOMMENDS STRUCTURAL GRADE CONCRETE BE ADDED TO THE INNER EDGE OF THE SLUDGE PIT TO INCREASE CENTER COLUMN ANCHOR EDGE DISTANCE.

			
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R162	SA103	ME75	2023-08-28
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<b>24946C</b>	<b>0003408851</b>		4 OF 5
			REV
			-



# WALKWAY TO TANK WALL

## NOTES:

- GRATING USES SELF-TAPPING SCREWS THAT REQUIRE FIELD DRILLED PILOT HOLES.

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