

ADDENDUM NUMBER 1:
Pease WWTF SBR1 Aeration Improvements Bid Proposal #31-14

Issued: December 31, 2013

This Addendum forms part of the original document marked: **Pease WWTF SBR1 Aeration Improvements Bid Proposal #31-14**

A. The bid period is extended for two days. Page 3, Invitation to Bid, paragraph 1:

Replace the words “January 7” with the words “January 9”

B. Page 3, Invitation to Bid, paragraph 3:

Replace the number “30” with the number “45”

C. Page 15, Contract Agreement, Article III – Contract Time:

Replace the number “30” with the words “45 calendar”

D. Section 011000-Summary, Item 1.2, paragraph D.1.a:

Add the following sentences at the end of this paragraph:

“The Contractor shall unbolt all 9 diffuser racks and remove them from the SBR basin. The racks shall be moved to a location outside of the SBR basin as requested by the City. The City will perform maintenance on these units during the course of the Contractor’s work and the contractor will re-install the diffuser racks. The City will also perform maintenance on the aeration mixer motor. The Contractor shall remove the mixer motor from the basin to a location as requested by the City. Once motor maintenance is complete, the Contractor will move the motor back into the SBR basin. The motor will be removed from the mixer and re-installed on the mixer by the City. It is anticipated that maintenance on the diffuser racks and mixer motor will be complete in advance of the contractor’s installation of the new aeration equipment.”

E. Section 011000-Summary, Item 1.2, paragraph D.1.c:

Add the following sentence at the end of this paragraph:

“The Contractor will be responsible for all other materials needed to perform the work including, but not limited to, pipe, flanges, flange adapters, supports, seals, and nuts and bolts.”

F. Section 011000-Summary, Item 1.2, paragraph 2:

Add the following sentence at the end of this paragraph:

“The City’s electrical contractor will connect electrical power to the new motor operated valves installed by the Contractor.”

G. Section 011000-Summary, Part 3 - Execution:

Add the following paragraph to this section:

“3.1 General Prosecution of Work for SBR Influent Valve Modifications

- A. The City will dewater SBR1 basin for the purpose of the aeration improvements. During the progress of the aeration improvement work, the Contractor shall install an isolation valve on the influent line to SBR1. This work must be completed in a period of approximately 3 hours in order to maintain flow to and treatment in SBR2. Installation of the remaining piping and valves for the influent line to SBR1 must be complete by the time the aeration improvements for SBR1 are complete. Once SBR1 and the influent valves to SBR1 are complete, the City will transfer treatment from SBR2 to SBR1. This work will take between 2 and 4 days. Once complete, the Contractor will be able to install an isolation valve on the influent line to SBR2. This work must be completed in a period of approximately 3 hours in order to maintain flow to and treatment in SBR1. Installation of the remaining piping and valves for the influent line to SBR2 must be completed as soon as possible so that treatment in SBR2 can be resumed.
- B. The Contractor can propose an alternative prosecution of work to paragraph A for the City’s review and approval during the shop drawing review process. Treatment at the facility cannot be interrupted.”

H. Valve Modifications Drawings, Prosecution of Work:

Delete Item 8.c in its entirety.

I. Valve Modifications Drawing, Section B:

Replace Section B with the attached SK-1.

J. Bidder’s Questions - The following questions have been asked and answered:

Question #1 Will the influent piping to the SBRs be empty once flow is stopped in preparation for the isolation valve installation?

Answer #1 **No. The drawings have been modified to include installation of a 1” tap near the floor for dewatering purposes.**

All other questions asked at the pre-bid meeting have been addressed elsewhere in this addendum.

K. Drawings:

Add the attached original shop drawings entitled “Sequencing Batch Reactor for Pease Development Authority”, dated March 26, 1996 for the Contractor’s information.

L. Appendix A – Pre-purchased Equipment:

Add the attached Packing Slip from Aqua Aerobics to this section.

Shop drawings of the pre-purchased valves will be made available the selected Contractor.

The City purchased stainless steel nuts, bolts and washers for the decanter effluent piping as shown on the drawings.

M. Mandatory Pre-Bid Sign in Sheet

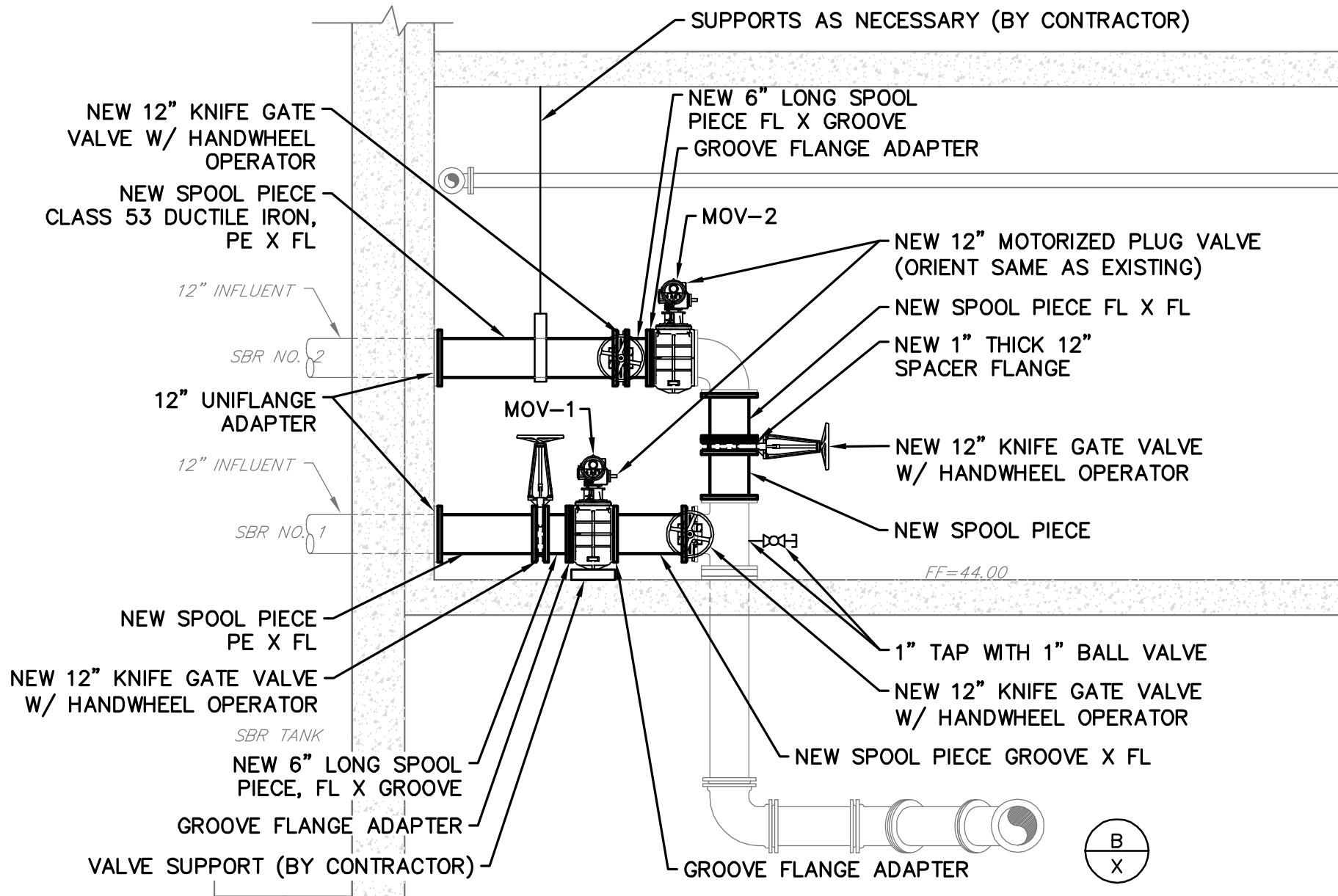
See attached Sign in Sheet from Mandatory Pre-bid Meeting.

All else remains unchanged from the original bid document.

Please acknowledge receipt of this addendum within your proposal, failure to do so may subject a bidder to disqualification.

End of Addendum #2

H:\Real Numbers\Portsmouth\1775 Pease Evaluation\Work Plans\1775 Blower Building.dwg, sk-1, 12/23/2013 3:38:44 PM, jfb



DATE
12/23/13

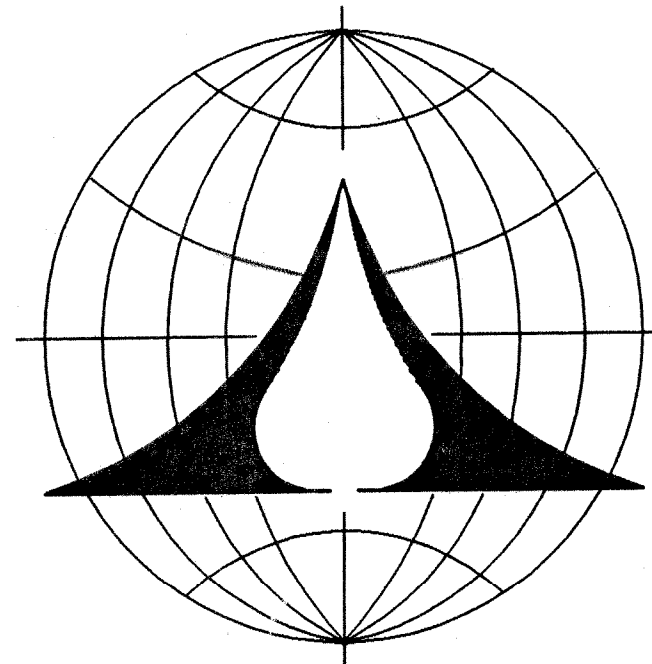
PROJECT
1775

UNDERWOOD
engineers

25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

VALVE MODIFICATIONS
PEASE WWTF
PEASE
PORTSMOUTH, NEW HAMPSHIRE

FIG.
SK-1



AQUA-AEROBIC SYSTEMS, INC.
 6306 NORTH ALPINE ROAD
 ROCKFORD, ILLINOIS 61111
 PHONE: 815/654-2501
 TELEX: 257-420
 FAX NO: (815) 654-2508

MANUFACTURERS OF WASTEWATER TREATMENT EQUIPMENT

THESE DRAWINGS CORRELATE TO DRAWINGS AND SPECIFICATIONS SUPPLIED BY: UNDERWOOD ENGINEERS, INC. ALL EQUIPMENT AND COMPONENT DIMENSIONS ARE SHOWN FOR GENERAL LOCATION ONLY. ALL DIMENSIONS OF ITEMS CONNECTED TO BASIN, AND OTHER SUCH CONSTRUCTION ITEMS ARE SUBJECT TO ENGINEERS APPROVAL. AQUA-AEROBIC SYSTEMS, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR STRUCTURAL DIMENSIONS, OR EQUIPMENT SUPPLIED BY OTHERS, THAT IS NOT WITHIN DIMENSIONS SHOWN ON THESE DRAWINGS.

SEQUENCING BATCH REACTOR FOR PEASE DEVELOPMENT AUTHORITY

DRAWING SHEET INDEX

- DWG. NO. 94846000 SYSTEM PLAN VIEW
- DWG. NO. 94846001 30 HP FSS MIXER INSTALLATION
- DWG. NO. 94846002 10'x9'/18" DECANTER INSTALLATION (SHEET 1 OF 2)
- DWG. NO. 94846002 10'x9'/18" DECANTER INSTALLATION (SHEET 2 OF 2)
- DWG. NO. 94846003 50-TUBE RETRIEVABLE DIFFUSER INSTALLATION (T-WALL)
- DWG. NO. 94846004 50-TUBE RETRIEVABLE DIFFUSER INSTALLATION (L-WALL)
- DWG. NO. 94846005 SBR LEVEL SENSOR INSTALLATION
- DWG. NO. 94846006 INFLUENT BAFFLE INSTALLATION
- DWG. NO. 94846007 6'x4'/4" FLOATING WEIR INSTALLATION (SHEET 1 OF 2)
- DWG. NO. 94846007 6'x4'/4" FLOATING WEIR INSTALLATION (SHEET 2 OF 2)
- DWG. NO. 94846040 CONTROL PANEL INSTALLATION

NOTE:
 AQUA-AEROBIC SYSTEMS, INC. DOES NOT ASSUME THE RESPONSIBILITY OF COORDINATING CIVIL, MECHANICAL, OR DESIGN ENGINEERING.

AQUA M.O.#: 104846
 ENGINEERS : UNDERWOOD ENGINEERS, INC.
 S.R.F. PROJECT NO. CS-330325-01

DRAWN BY: MARK LENOX APPROVED BY: *M. Herzig*
 DATE: APRIL 26, 1996 DRAWING NO: 3107863

ALL ELECTRICAL DRAWINGS WILL BE INSERTED IN THE APPROVAL BOOK

THESE DRAWINGS ARE FOR THE PURPOSE OF APPROVING MATERIALS AND EQUIPMENT PROPOSED.

DO NOT USE FOR INSTALLATION

GENERAL PROJECT NOTES AND COMMENTS:

1. THE DECANTER ASSEMBLIES FOR THE SBR BASINS HAVE BEEN DETAILED TO OPERATE WITHIN A MAXIMUM SIDE WATER DEPTH OF 21'-1" AND A MINIMUM SIDE WATER DEPTH OF 14'-0" FROM THE BASIN FLOOR ELEVATION.
2. ANY BASIN HANDRAILING ILLUSTRATED IS SHOWN FOR REFERENCE ONLY AND MUST BE SUPPLIED AND INSTALLED BY OTHERS. ALL HANDRAILING AROUND RETRIEVABLE DIFFUSERS MUST BE REMOVABLE FOR WHEN THE DIFFUSER IS IN THE ACCESS POSITION. AN OPENING IN THE HANDRAILING MUST BE PROVIDED FOR CLEARANCE OF THE WINCH WHEN THE DIFFUSER RACK IS PIVOTED INTO THE ACCESS POSITION.
3. ANY PIPING ILLUSTRATED ON THESE DRAWINGS IS SHOWN FOR REFERENCE ONLY. SIZING, LOCATION, AND SUPPLY ARE TO BE DETERMINED BY OTHERS.
4. ALL LOCAL DISCONNECTS, JUNCTION BOXES AND MOUNTING HARDWARE FOR ELECTRICAL DEVICES ARE SUPPLIED AND INSTALLED BY OTHERS UNLESS NOTED OTHERWISE.
5. OWNER/ENGINEER PLEASE VERIFY DIMENSIONS GIVEN TO ASSURE ACCURATE FABRICATION OF EQUIPMENT. ADDITIONAL DETAILS AND SPECIFICATIONS ARE LOCATED IN THE SUBMITTAL BOOK SUPPLIED WITH THESE DRAWINGS.
6. INSTALLATION DRAWINGS WITH COMPLETE PARTS LIST WILL BE PROVIDED WITHIN EACH OPERATION & MAINTENANCE MANUAL. (6) SIX SETS OF O&M MANUALS WILL BE SENT PRIOR TO EQUIPMENT BEING SHIPPED.
7. SPARE PARTS WILL BE PROVIDED CONSISTING OF THE FOLLOWING:
 - (1) DECANTER WARNER ELECTRIC ACTUATOR
 - (1) BOX OF 12 PANEL LIGHT BULBS
 - (20) FINE BUBBLE DIFFUSER MEMBRANE SLEEVES
 - (1) WARNER ELECTRIC CAPACITOR, 35 FU
 - (2) FLOAT SWITCHES
 - (1) LIMIT SWITCH AND ADJUSTABLE LEVER ARM
 - (2) INPUT CARDS
 - (2) OUTPUT CARDS
 - (1) BOX 1 AMP FUSES, 250V
 - (1) BOX 3 AMP FUSES, 250V
 - (1) BOX 4 AMP FUSES, 250V
8. AQUA-AEROBIC SYSTEMS' SBR DIFFUSER TERMINATION POINT SHALL CONSIST OF 3" FLEXIBLE HOSE WITH QUICK DISCONNECT AND ENDING WITH A GALV. FLANGE FOR CONNECTION TO AN ISOLATION VALVE (OR AIR MANIFOLD PIPING) BY OTHERS.
9. IT IS RECOMMENDED THAT OVERFLOW PROVISIONS BE PROVIDED IN ALL BASINS.
10. AQUA-AEROBIC SYSTEMS' FINE BUBBLE DIFFUSER HAS A PRESSURE LOSS OF 1.3 PSIG. ENGINEER TO VERIFY THAT BLOWERS ARE PROPERLY SIZED FOR APPLICATION.
11. EQUIPMENT IS BASED ON BEAMS AND POSTS ANCHORING TO THE BASIN FLOOR WITH THE 12" CONCRETE FILL BEING INSTALLED AFTER BEAMS AND POSTS ARE INSTALLED.
12. EXTERNAL SLUDGE PUMPS, SLUDGE VALVES, BLOWERS, AND THE MCC IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
13. IT IS RECOMMENDED THAT A 120 VOLT, SINGLE PHASE, GROUND FAULT OUTLET BE POSITIONED WITHIN 20 FEET OF EACH RETRIEVABLE DIFFUSER BANK IN ORDER TO OPERATE THE ELECTRICAL HOIST PROVIDED.

DEVIATIONS FROM PLANS AND SPECIFICATIONS:


1. THE INFLUENT PIPING DETAILS HAVE BEEN CHANGED DUE TO INTERFERENCES OF ELEVATIONS.
2. DUE TO THE SUMP PUMP LOCATED IN THE CENTER OF EACH BASIN, AQUA-AEROBIC SYSTEMS WILL SUPPLY A CABLE MOORING SYSTEM IN LIEU OF THE PIVOTAL MOORING SYSTEM SPECIFIED TO PREVENT POTENTIAL DEWATERING PROBLEMS AS THE MIXER RESTS ON THE BASIN FLOOR.
3. ALL ANCHORS WILL BE 4 1/4" IN LIEU OF THE 4 1/2" SPECIFIED.
4. INFLUENT AND DECANT FLOW WILL NOT BE MODULATED. VALVES WILL OPEN AND CLOSE TO TERMINAL POSITIONS BASED ON SBR PLC LOGIC.

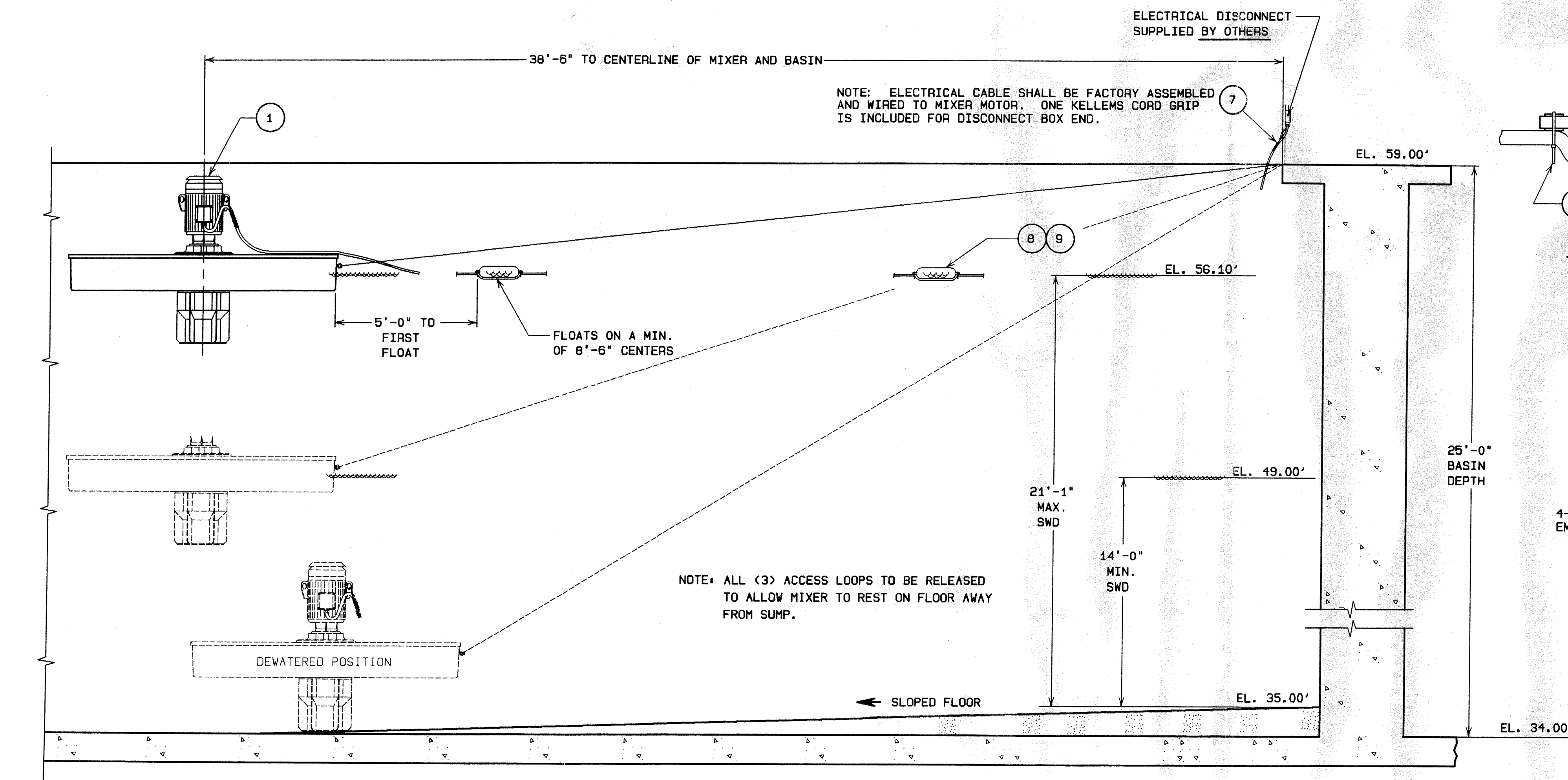
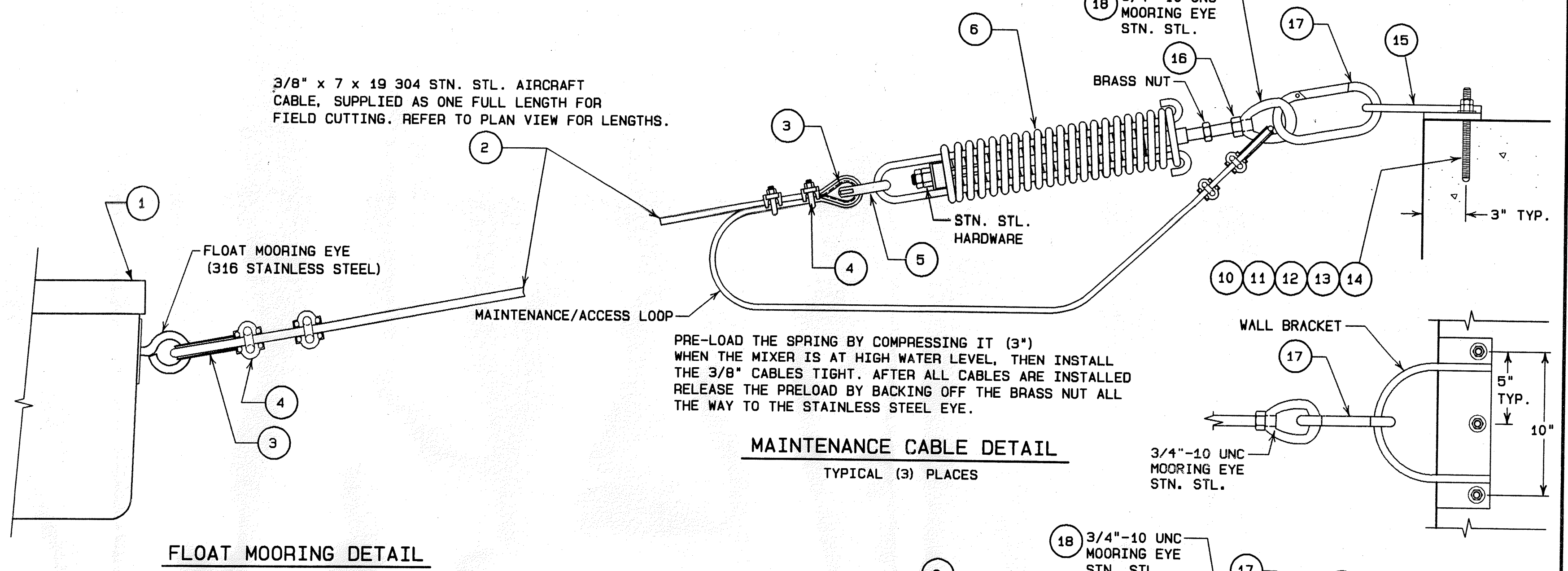
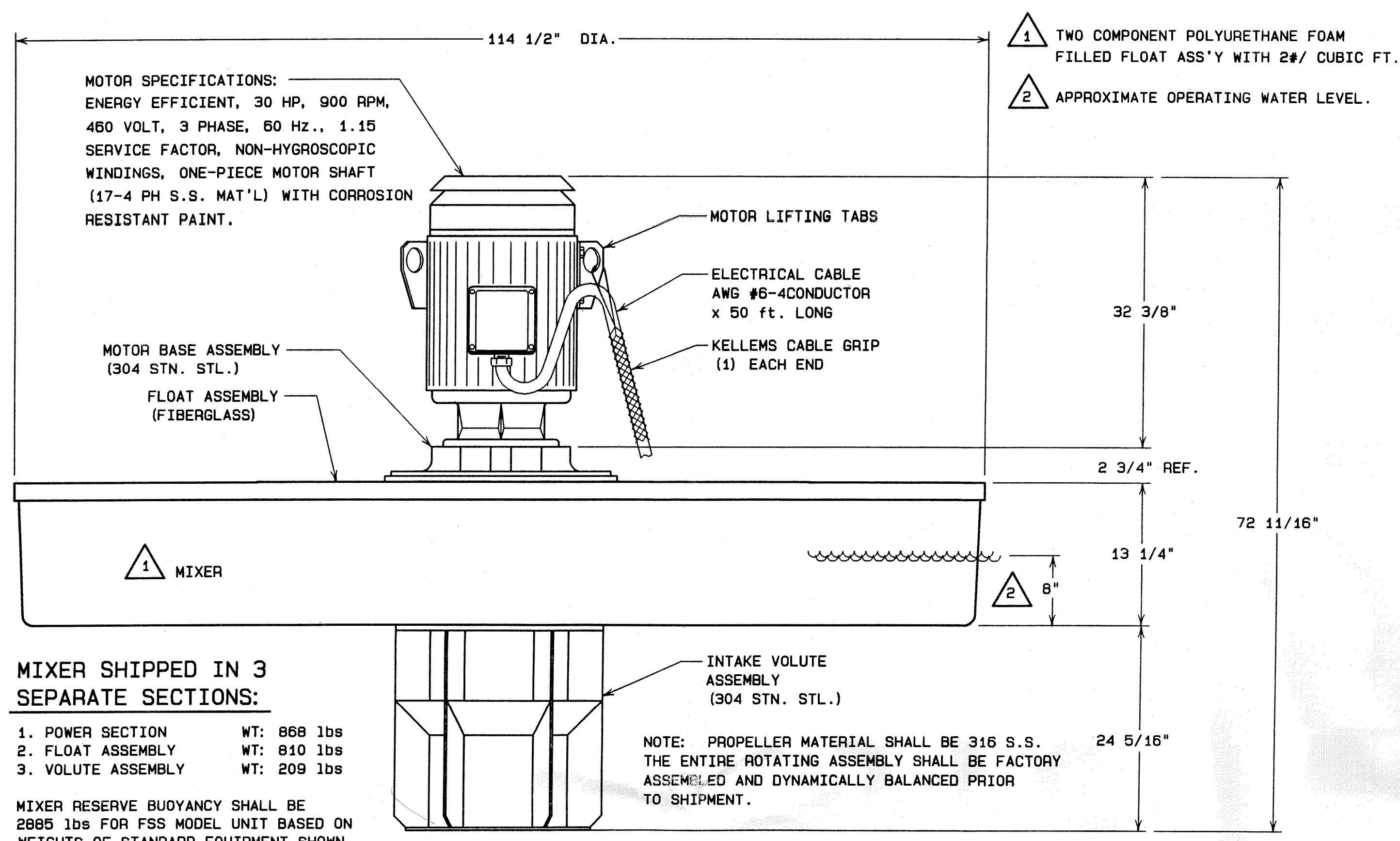
WE APPRECIATE YOUR PROMPT ATTENTION TO THIS SUBMITTAL PACKAGE. ORDERING OF ALL LONG LEAD TIME COMPONENTS WILL BEGIN AFTER WE HAVE RECEIVED FULL WRITTEN APPROVAL OF MATERIALS AND EQUIPMENT SUBMITTED. ANY DELAYS MAY AFFECT DELIVERY SCHEDULES. IF YOU HAVE ANY QUESTIONS OR COMMENTS, PLEASE TELEPHONE AQUA-AEROBIC SYSTEMS, INC. AT 815/654-2501.

AQUA-AEROBIC SYSTEMS, INC. DOES NOT ASSUME THE RESPONSIBILITY OF COORDINATING CIVIL, MECHANICAL, OR DESIGN ENGINEERING.

NOTICE TO ALL REVIEWING PARTIES:

DIMENSIONS ON THESE DRAWINGS ARE FINAL UNLESS CHANGED IN WRITING BY OTHERS. SPECIFIC NOTATION MUST BE SHOWN IN RED INK TO CHANGE ANY DIMENSIONS OR COMPONENT PARTS OR EQUIPMENT DETAILS. UNLESS CHANGES ARE SHOWN HEREON, AQUA-AEROBIC SYSTEMS, INC. SHALL NOT BE RESPONSIBLE FOR COST REQUIRED TO MODIFY OR CHANGE EQUIPMENT AS A RESULT OF UNMARKED CHANGES OR CHANGES AFTER REVIEW. MANUFACTURED PRODUCTS WILL BE SHIPPED AS DIMENSIONED AND DESCRIBED WITHIN THIS APPROVAL PACKAGE.

JOB NAME: PEASE DEVELOPMENT AUTHORITY		DO NOT SCALE DRAWING		 AQUA-AEROBIC SYSTEMS, INC. <small>MANUFACTURERS OF WASTEWATER TREATMENT EQUIPMENT</small>
JOB LOCATION:		DRN BY: GML	CKD BY:	
ENGINEERS: UNDERWOOD ENGINEERS, INC.		APP BY: <i>AMH</i>	DATE: 4/26/96	NAME:
		SCALE:		PROJECT NOTES AND COMMENTS
		HP/SIZE:		SHEET OF
		TYPE:		DWG. NO.: NOTEPAGE
		PATH: F:\DATA\SBR\JOB\104846		
REF.	ECO	DATE	BY	REVISION



MIXER OPERATIONAL VIEW

ITEM	QUAN.	PART NUMBER	DESCRIPTION	DWG.
18	4	2606937	EYE NUT, 3/4"-10UNC	316SS N
17	4	2603053	SNAP HOOK 3/8" DIA.	316SS N
16	4	2600496	FULL NUT, 3/4"-10UNC	316SS N
15	4	2910701	MOORING WALL BRACKET, WALL TOP	304SS B
14	12	2600426	FLAT WASHER, 1/2"	316SS N
13	12	2600234	JAM NUT, 1/2"-13UNC	316SS N
12	12	2600517	FULL NUT, 1/2"-13UNC	316SS N
11	12	2603545	ANCHOR ROD, 1/2"-13UNC x 6 1/2" LG.	304SS A
10	12	2603544	ADHESIVE CARTRIDGE, 1/2" DIA.	N
9	12	2600286	TY-WRAP CABLE TIE, 4" MAX. DIA.	NYLON N
8	3	2603475	TAYLOR FLOAT, 5 1/2" x 20"	VINYL N
7	1	2602413	KELLEMS GRIP, 1 1/4"-1 1/5", 2-EYE	304SS N
6	4	2605655	MOORING SPRING ASSEMBLY, HEAVY-DUTY	304SS B
5	4	2603057	SHACKLE, 3/8" w/7/16" PIN	316SS N
4	22	2600316	CABLE CLAMP, 3/8" DIA., U-BOLT	316SS N
3	11	2600319	THIMBLE, 3/8" CABLE	316SS N
2	275	2600317	MOORING CABLE, 3/8" DIA. 7x19	304SS N
1	1	94846009	30 HP FSS MIXER / CABLE ASSEMBLY ENERGY EFF.	N

JOB NAME: PEASE INTERNATIONAL TRADEPORT

DO NOT SCALE DRAWING

DRN BY: GML DATE: 4/26/96
 CKD BY: [Signature] ACT WT:
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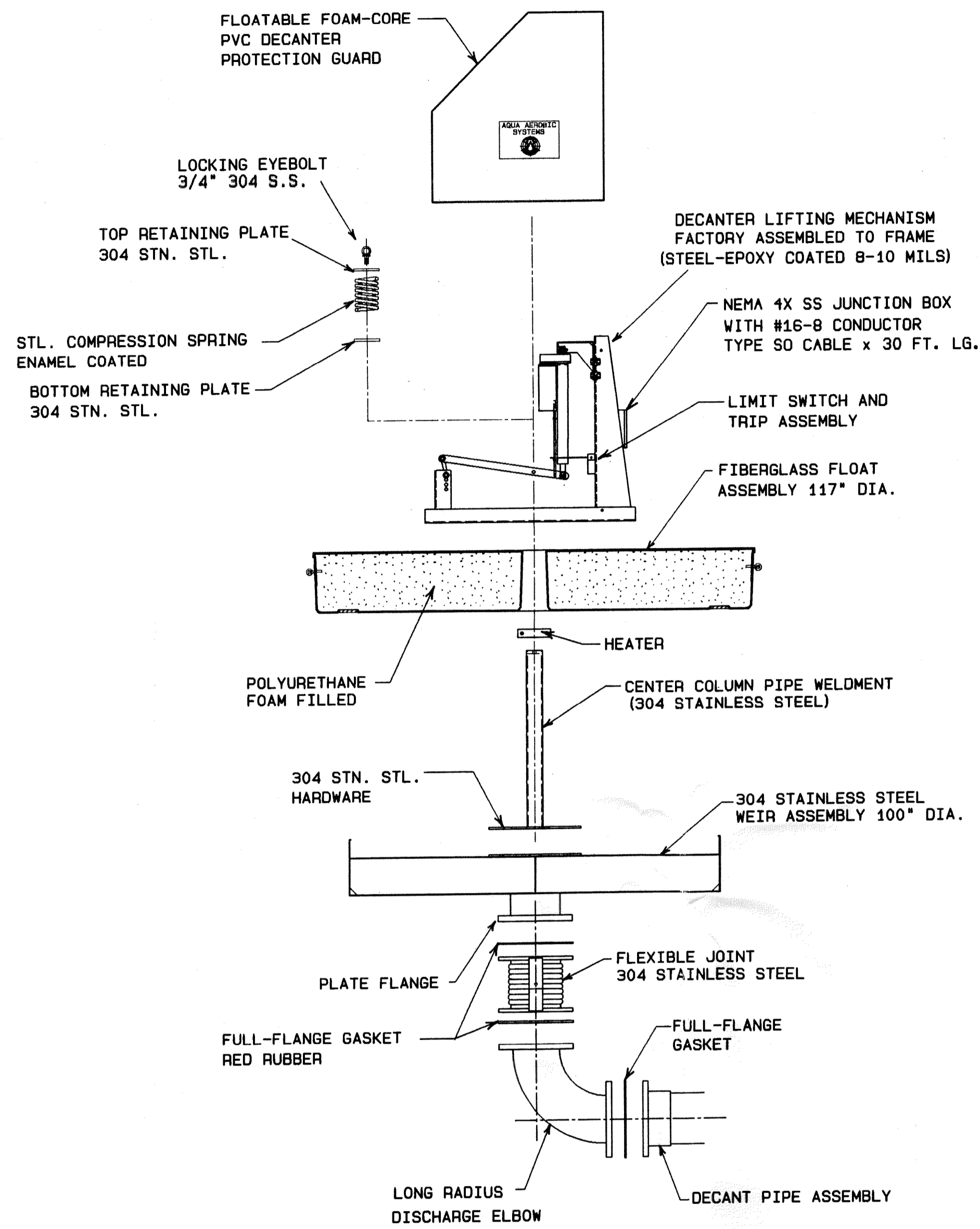
UNLESS OTHERWISE SPECIFIED
 FRACTIONAL DIMENSIONS ± 1/16
 ALL TWO PLACE DECIMALS ± .010
 ALL THREE PLACE DECIMALS ± .005
 ALL ANGLES ± 1/2°

HP/SIZE:
 TYPE: 1 OF 1
 DWG. NO.: 94846001

AQUA-AEROBIC SYSTEMS, INC.
 MANUFACTURER OF WASTEWATER TREATMENT EQUIPMENT

30 HP FSS MIXER INSTALLATION

REF.	ECO	DATE	BY	REVISION



DECANTER EXPLODED VIEW

NOTE: DECANTER ASSEMBLY MAY BE SHIPPED AS (3) THREE MAJOR COMPONENTS WITH FIELD ASSEMBLY PROVIDED BY OTHERS.

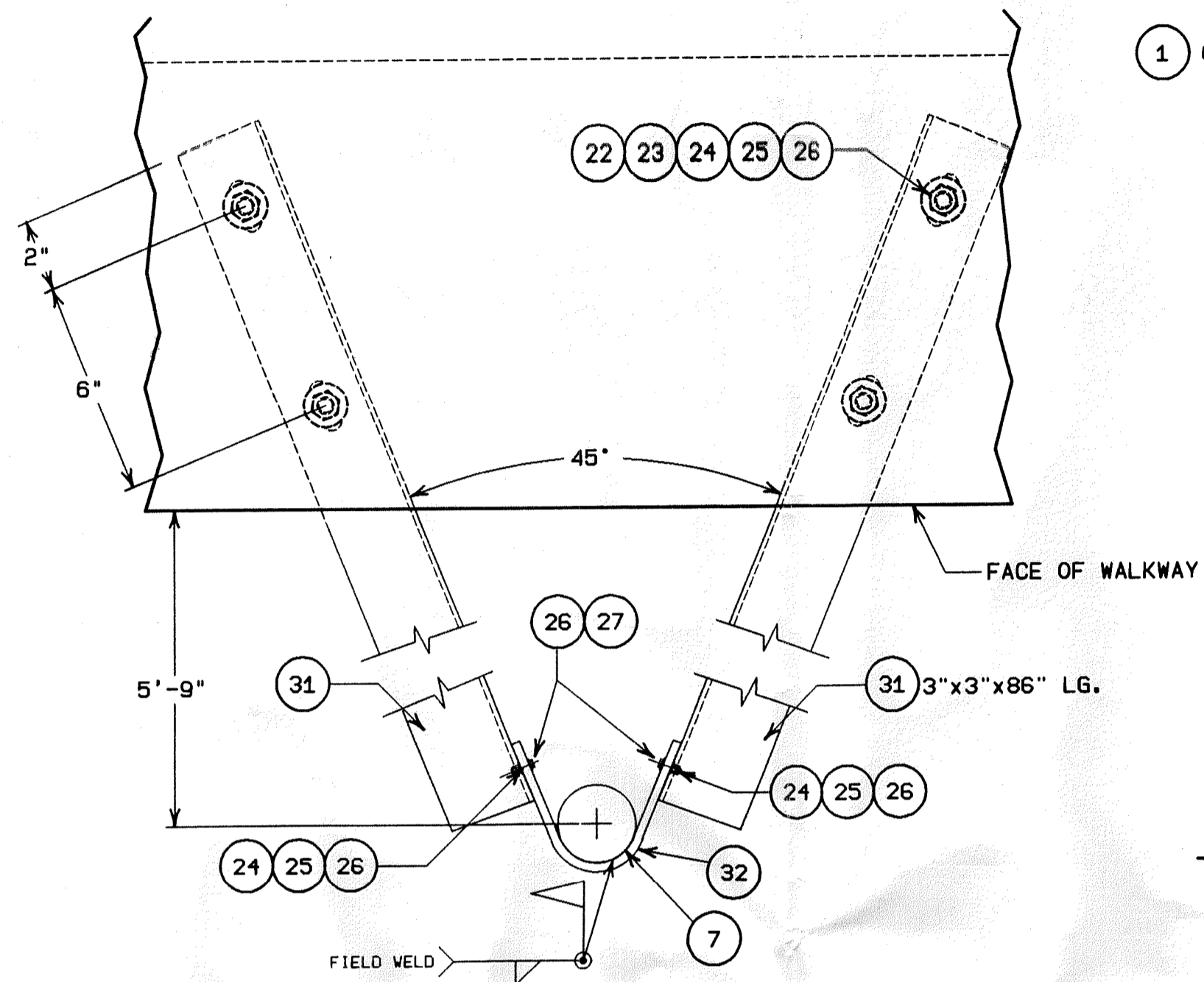
1. DECANTER POWER SECTION = 329 LBS.
2. FIBERGLASS FLOAT ASSEMBLY = 672 LBS.
3. 304 SS WEIR WELDMENT = 631 LBS.
4. RESERVE BUOYANCY = 1833 LBS.

ALL DECANTER ACCESSORIES SUCH AS: PIPING, MOORING FRAME, POSTS, ETC., SHALL BE SHIPPED LOOSE FOR FIELD ASSEMBLY.

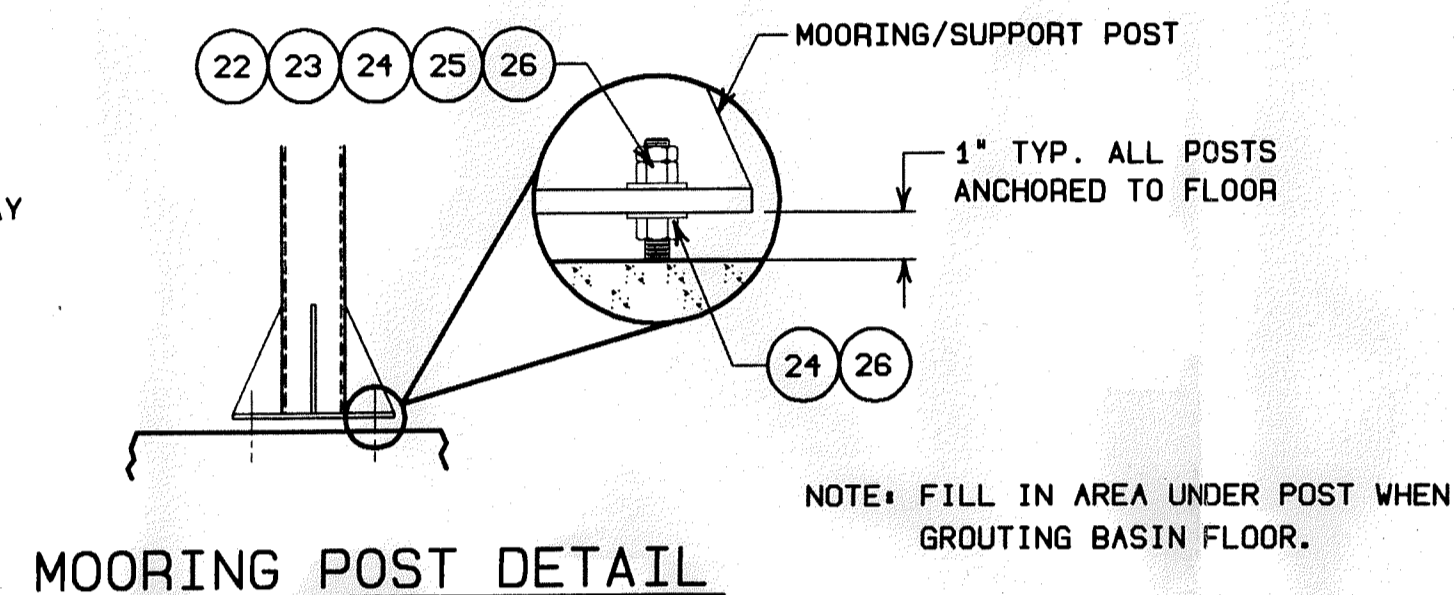
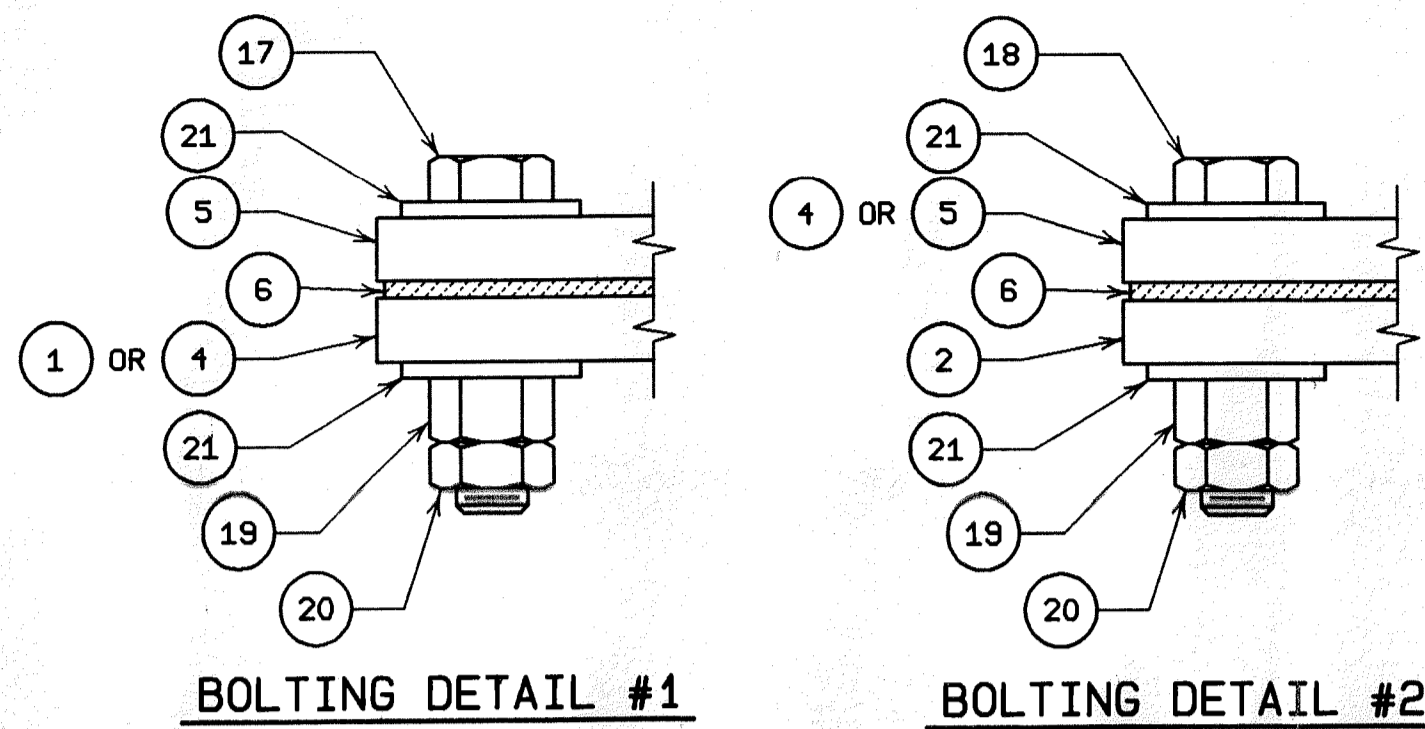
DECANTER INSTALLATION NOTES:

1. PLEASE REVIEW ALL INSTALLATION DRAWINGS AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
2. ALL THREADED FASTENERS MUST BE SECURED WITH FULL NUT & JAM NUT.
3. ANTI-SIEZE LUBRICANT IS RECOMMENDED ON ALL STAINLESS STEEL FASTENERS.
4. ALL LOCAL ELECTRICAL DISCONNECTS/JUNCTION BOXES HAVE BEEN SHOWN FOR REFERENCE ONLY AND ARE TO BE SUPPLIED AND LOCATED BY OTHERS.
5. ALL EFFLUENT DECANT PIPING HAS BEEN SHOWN FOR REFERENCE ONLY AND SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
6. POSTS ARE TO BE HELD VERTICAL AND PLUMB TO WITHIN +/- 1/4" TO ALLOW VERTICAL MOVEMENT OF UNIT. POSTS ARE TO BE FILLED WITH CONCRETE, BY OTHERS, AFTER INSTALLATION.
7. REFER TO BASIN LAYOUT DRAWING FOR LOCATION OF DECANTER.
8. TOUCH UP ALL WELDED AREAS OF EQUIPMENT INSTALLATION WITH HOT STICK GALVANIZE KIT.

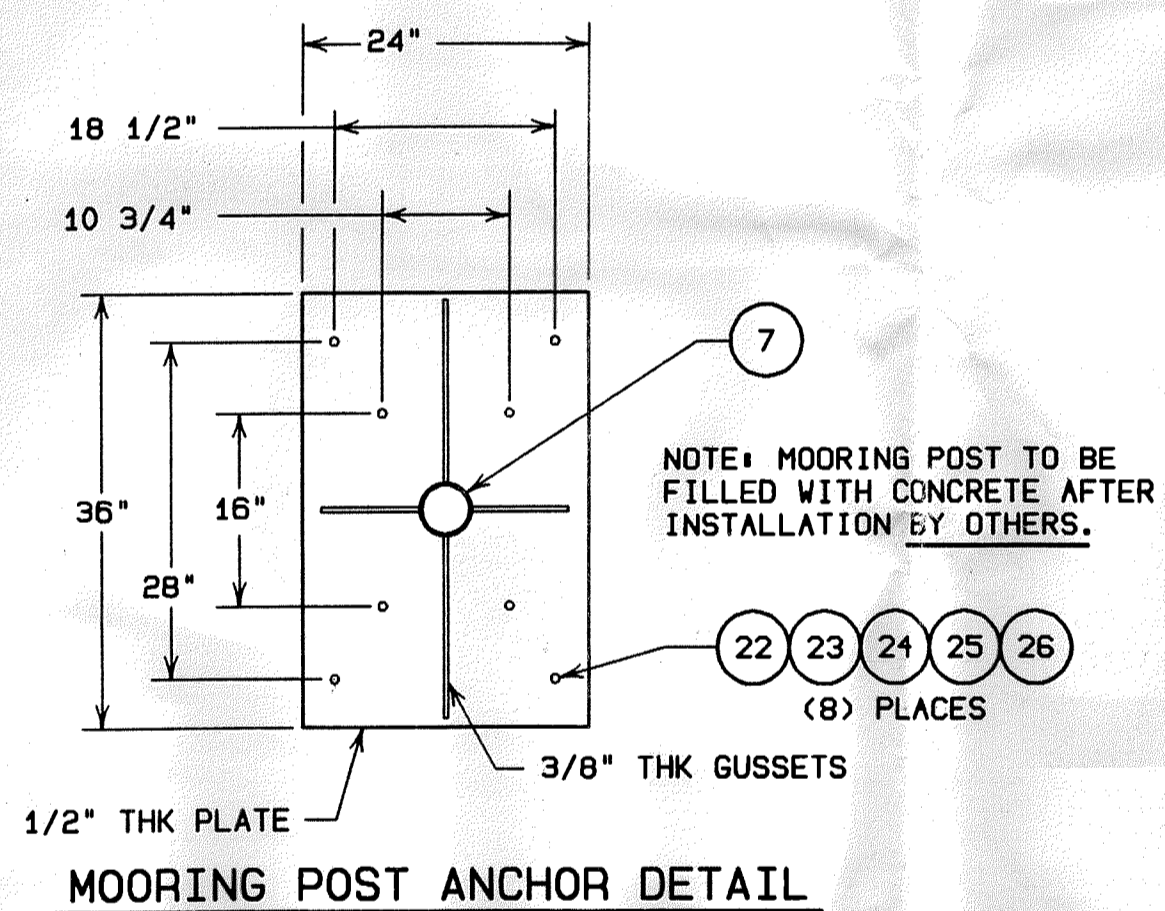
NOTE: ANCHOR MOORING POST TOP SUPPORT ANGLES TO UNDERSIDE OF WALKWAY. USE ANGLES AS TEMPLATE TO LOCATE ANCHORS.



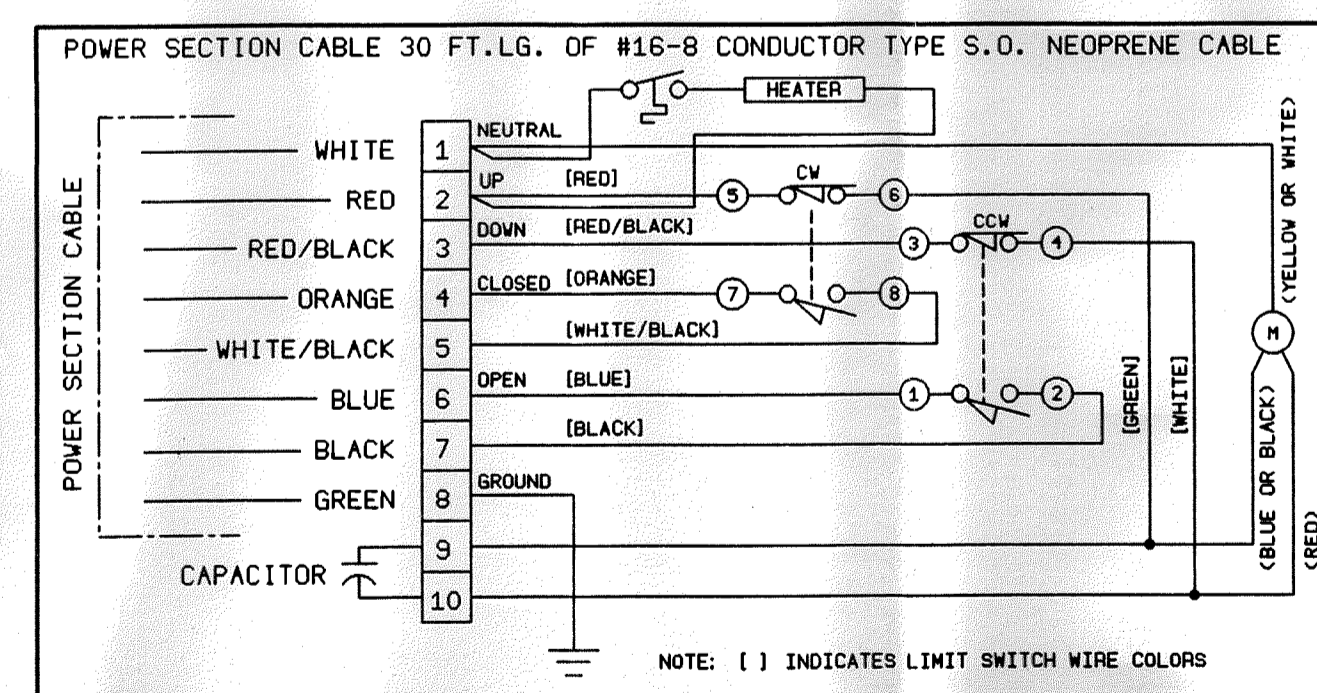
TOP MOORING POST SUPPORT DETAIL



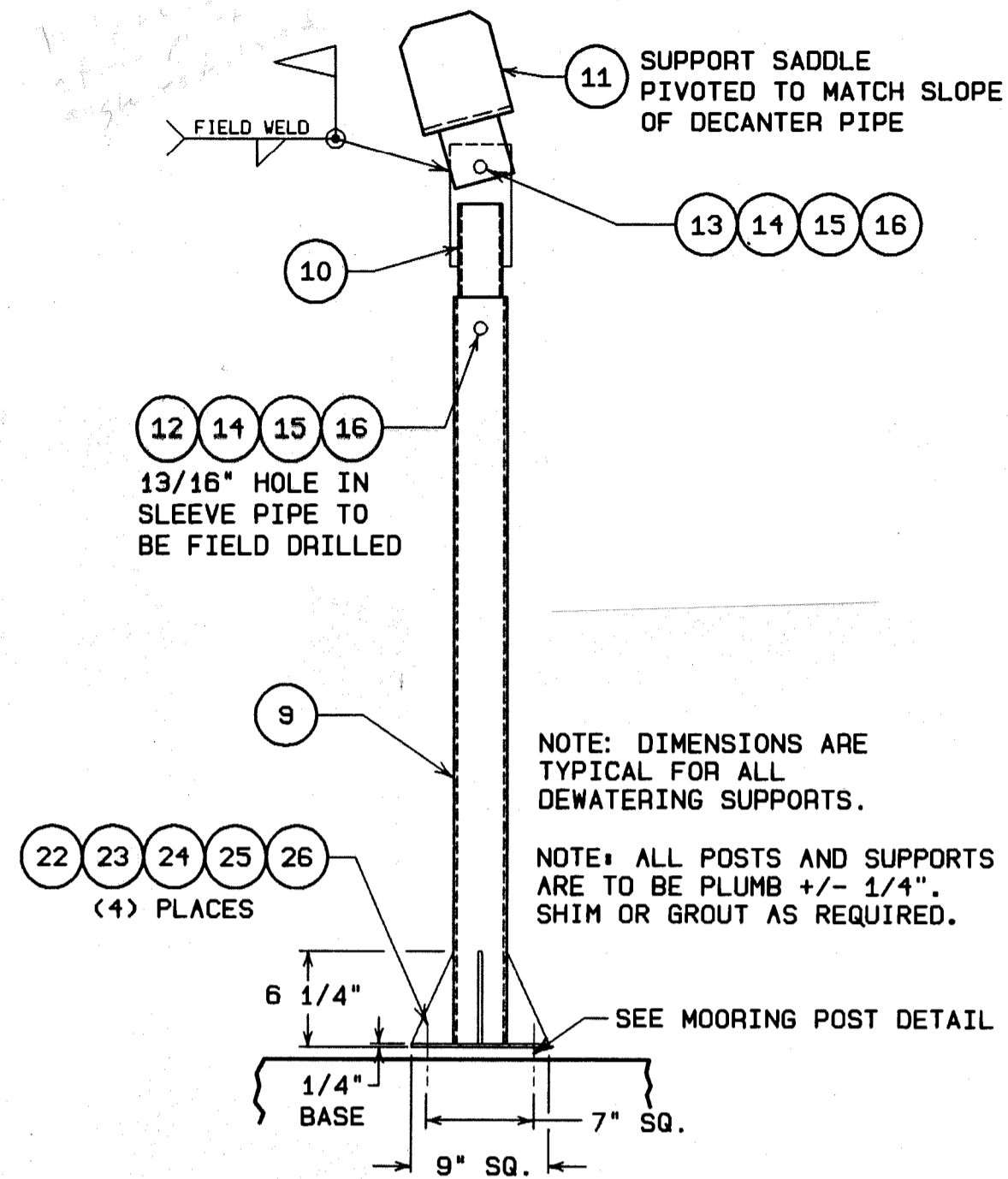
MOORING POST DETAIL



MOORING POST ANCHOR DETAIL

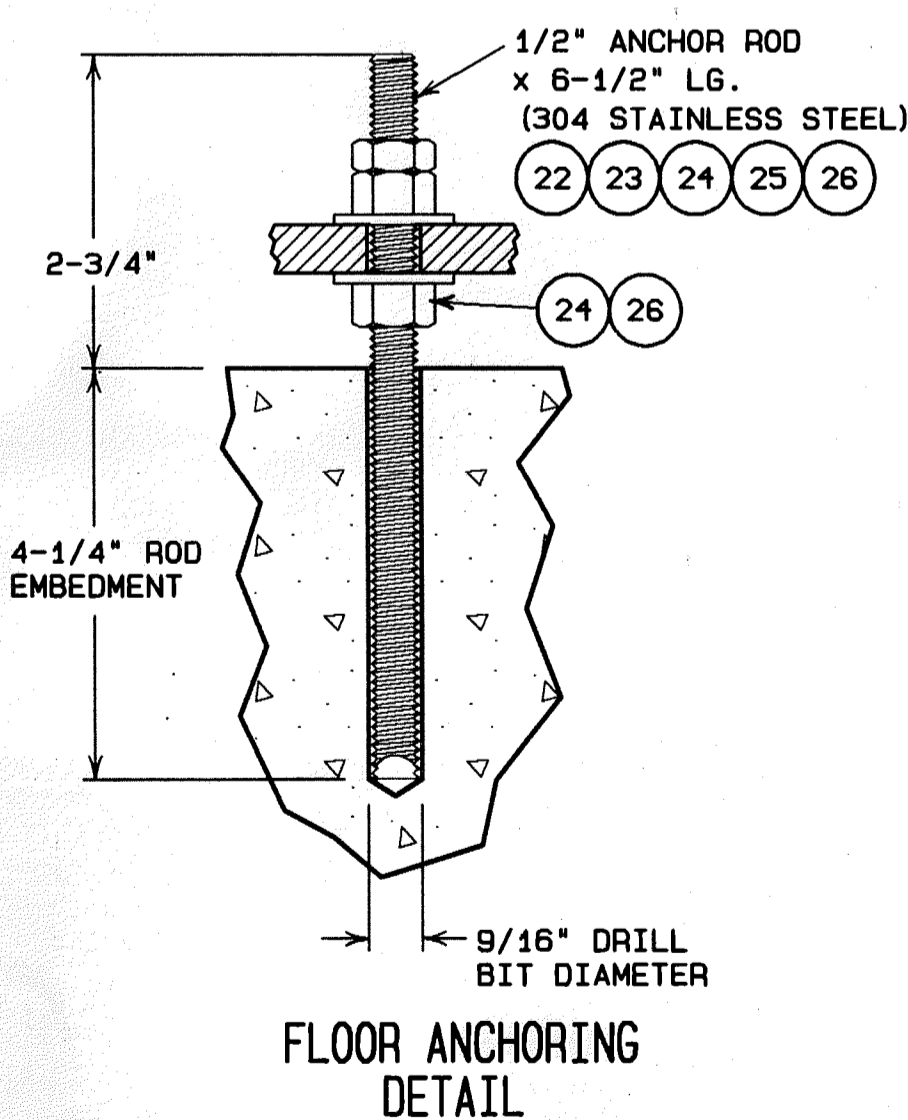
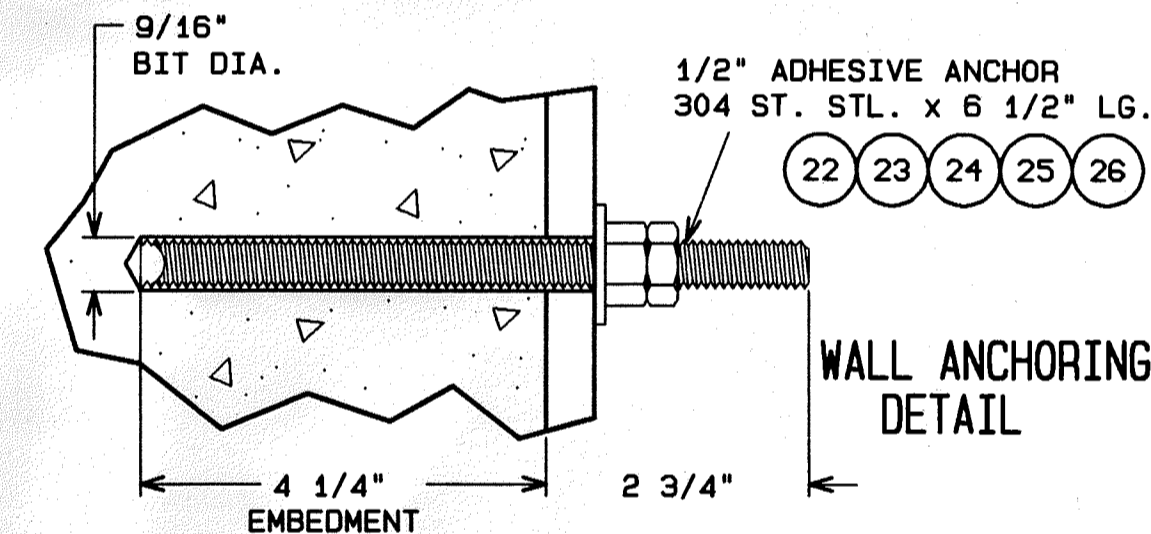


DECANTER JUNCTION BOX WIRING DIAGRAM

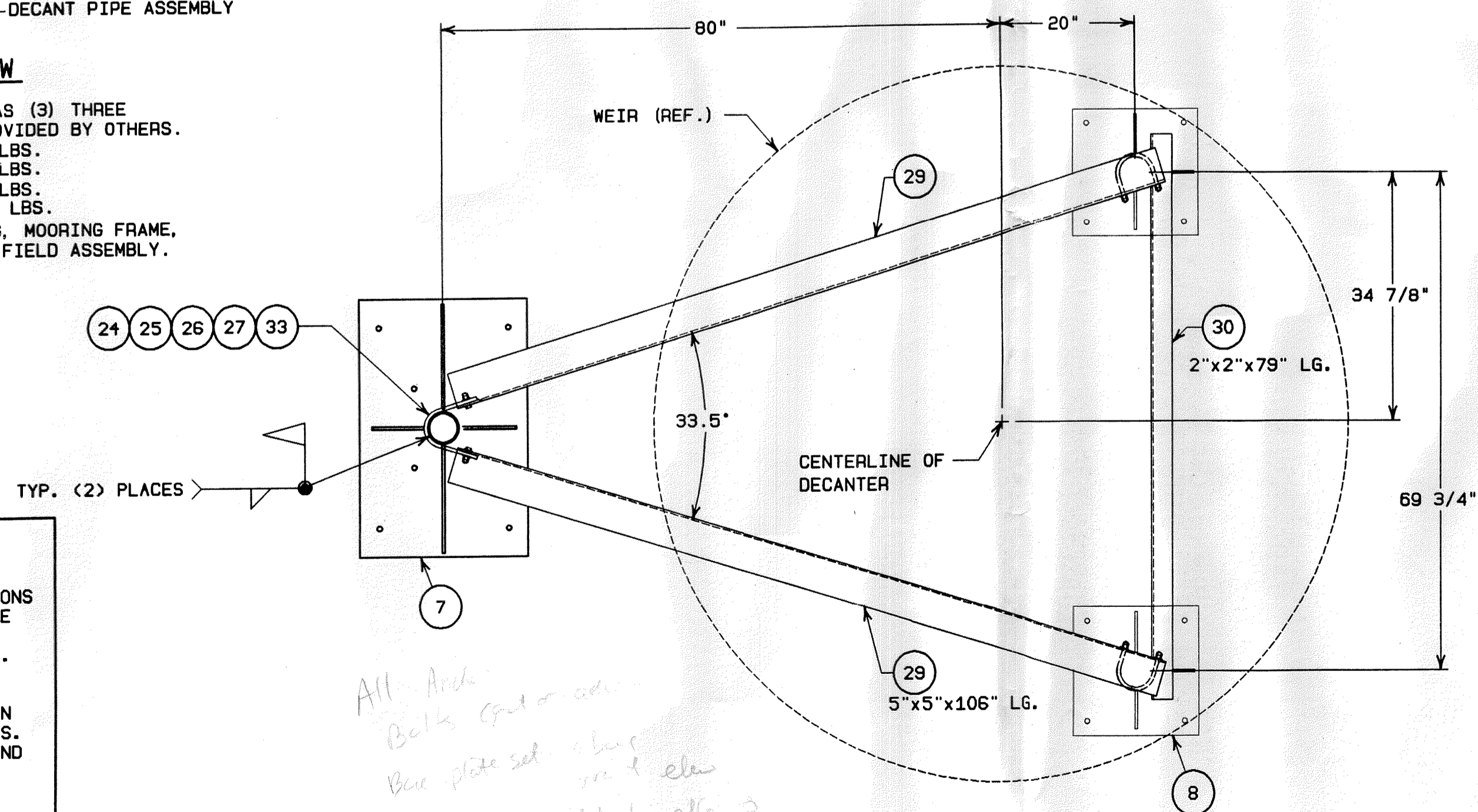


DECANTER PIPE SUPPORT SADDLE

NOTE: THIS ASSEMBLY TO BE FIELD SET WHILE DECANTER IS IN THE DEWATERED POSITION. DRILL THROUGH SLEEVE PIPE AND FIELD BOLT SADDLE IN POSITION.

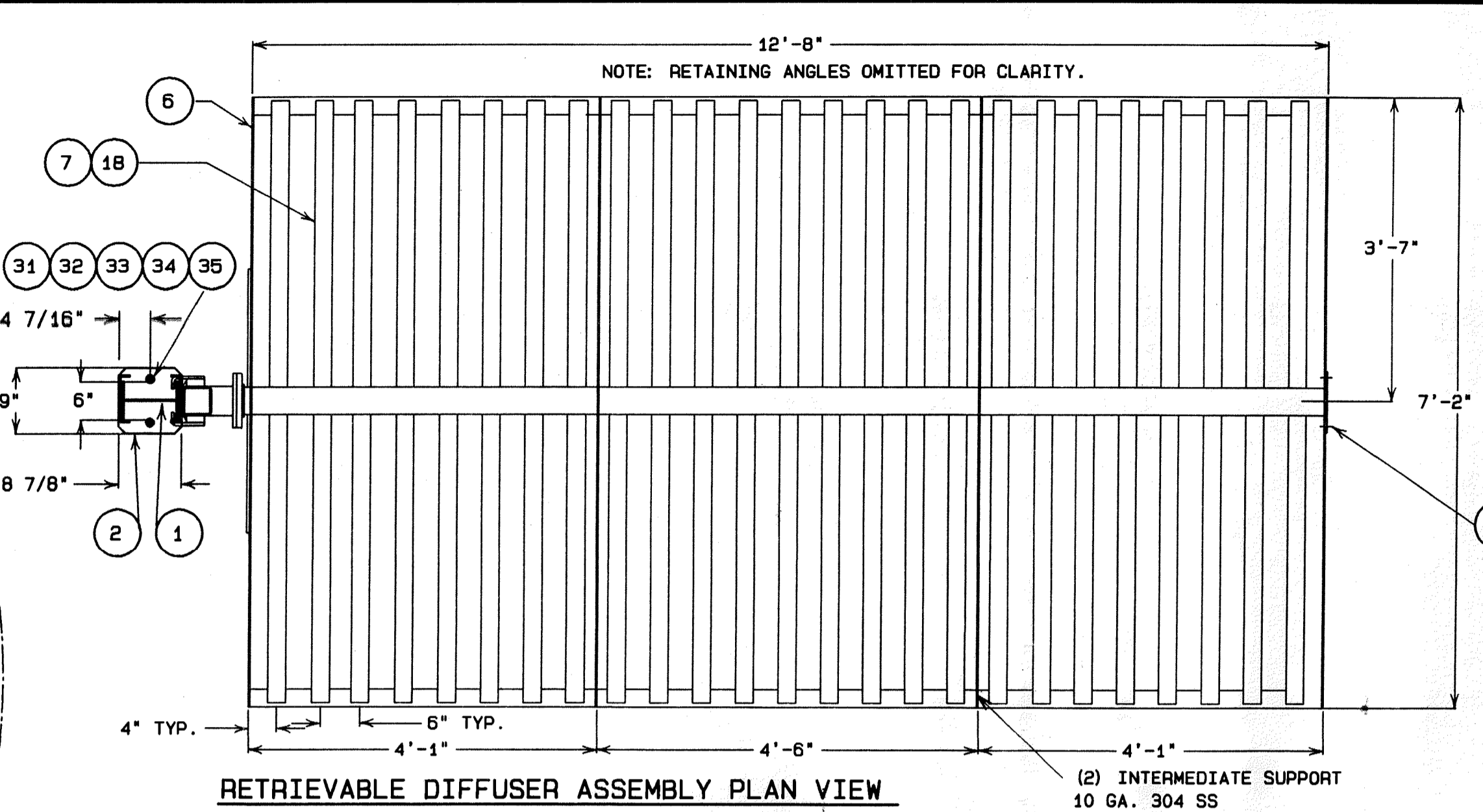
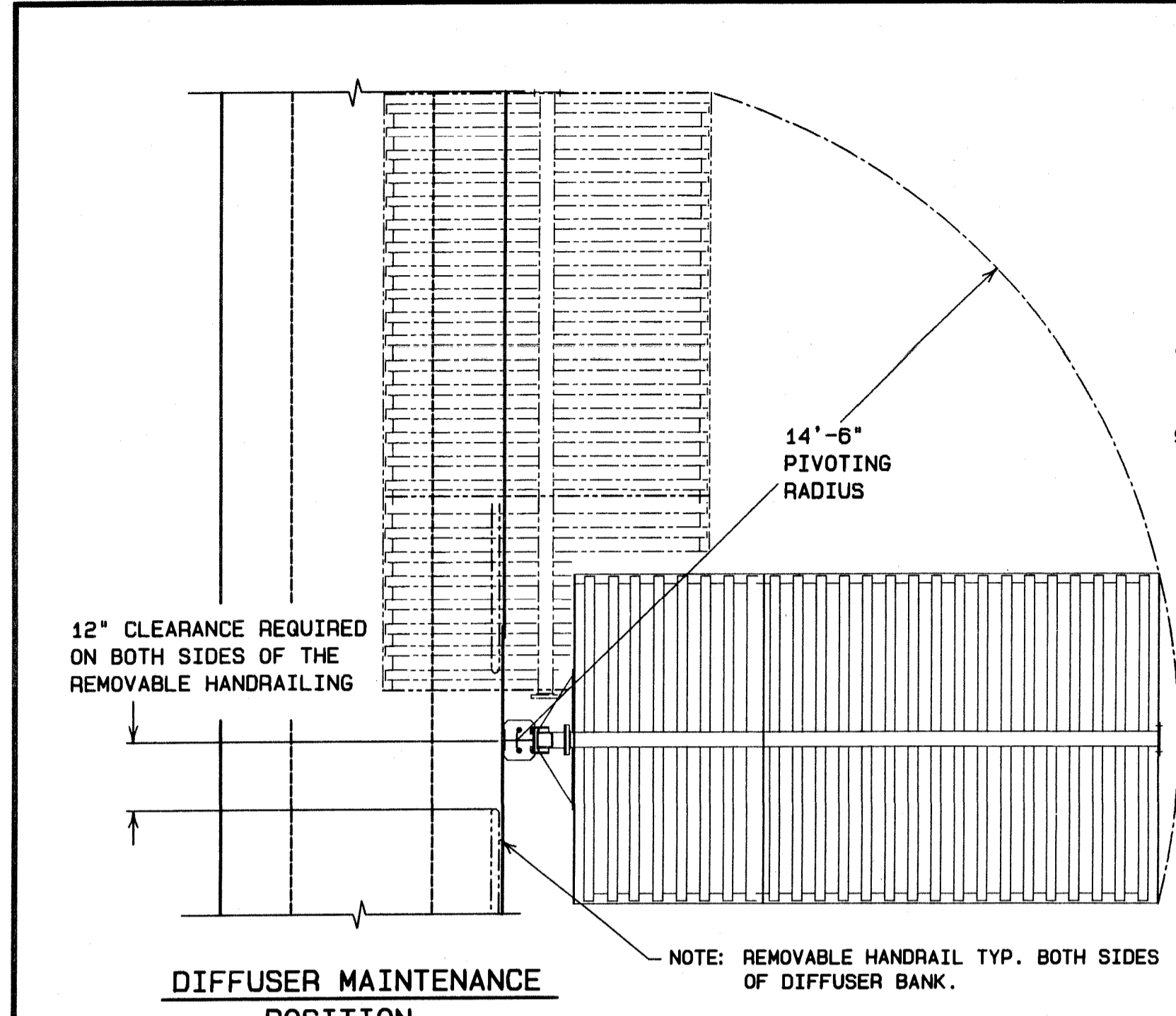


NOTE: ALL FIELD WELDING IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

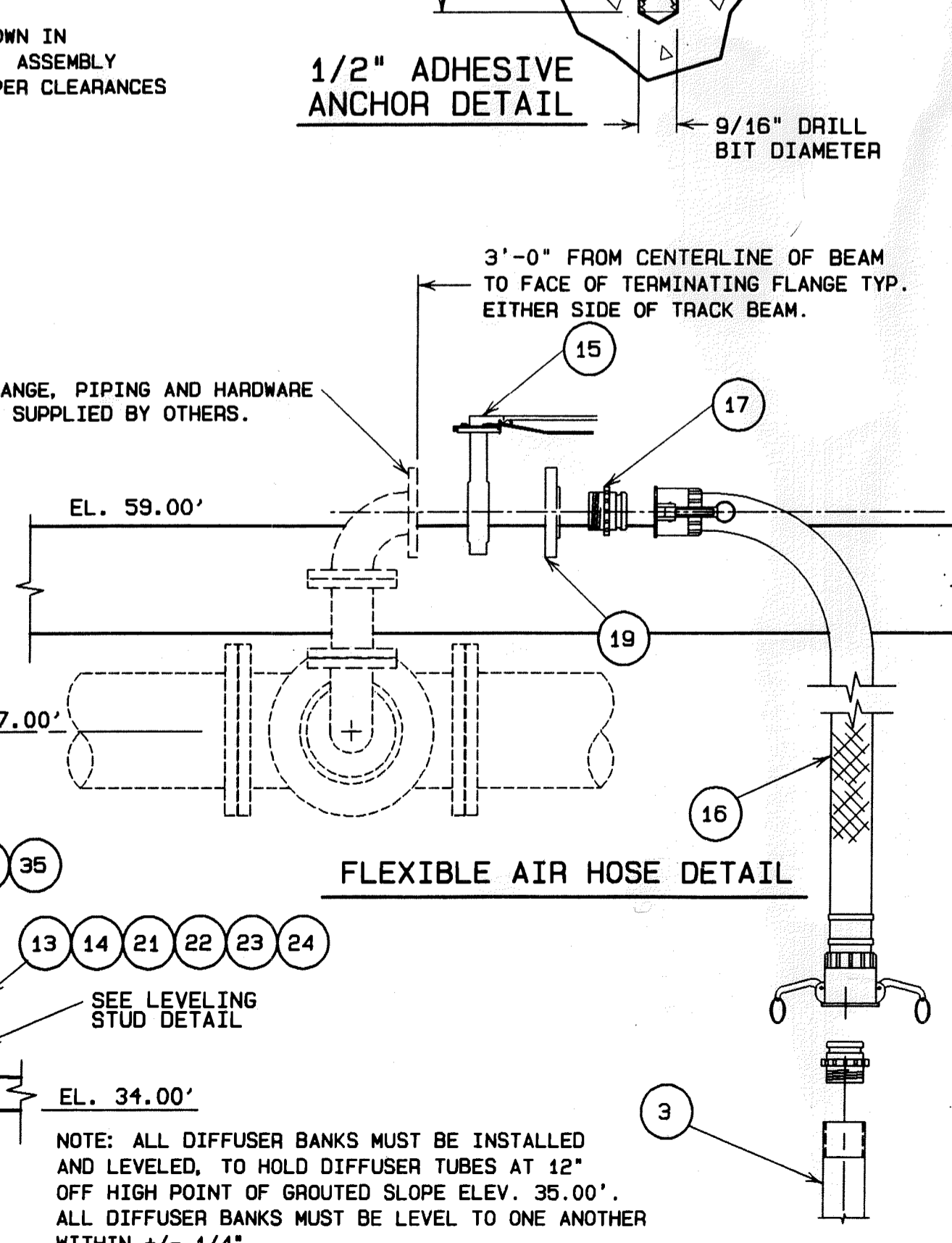
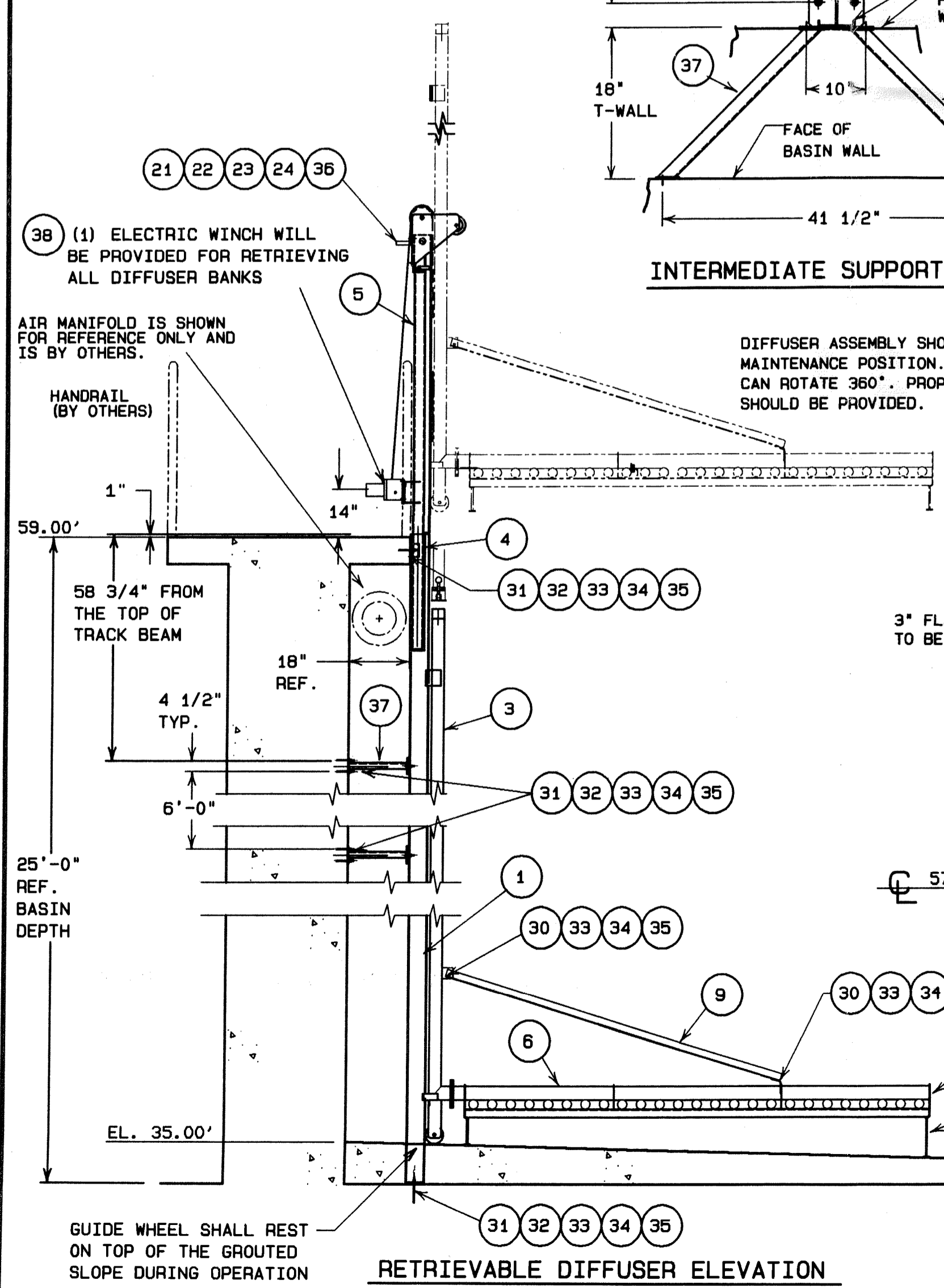
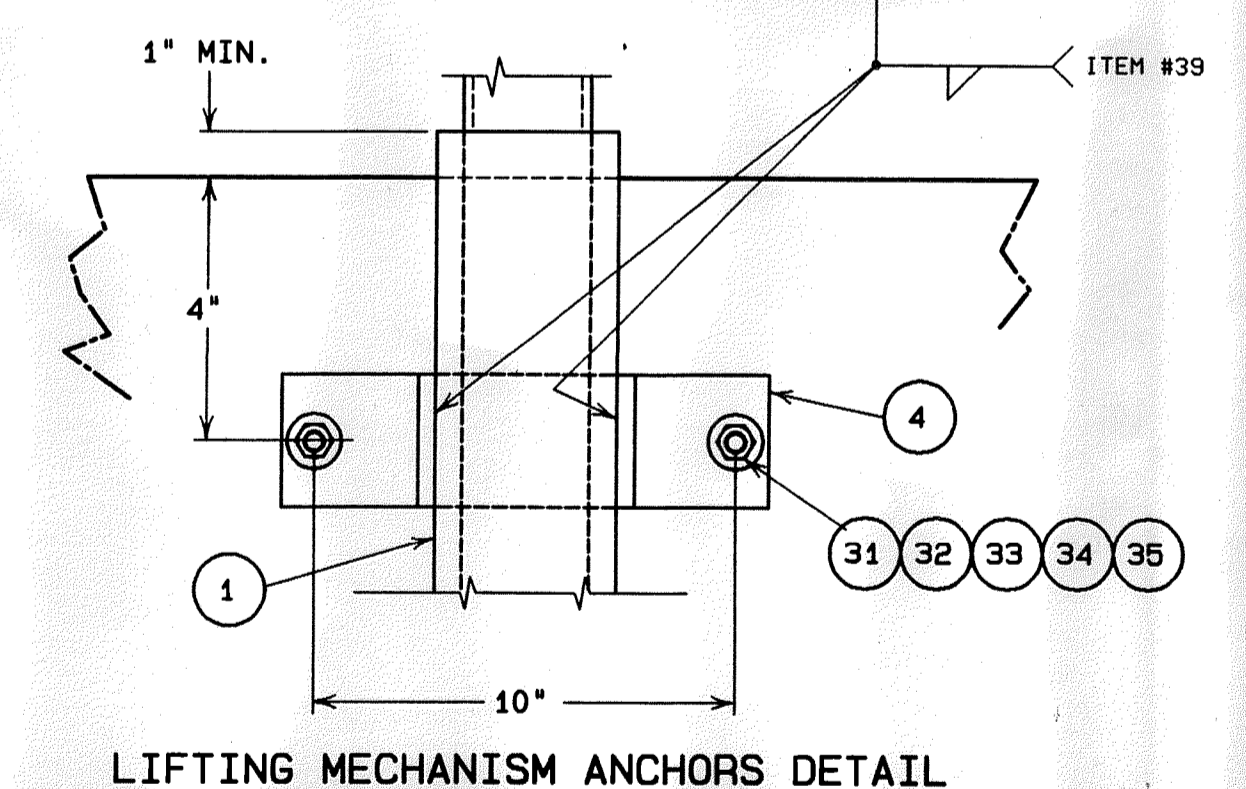
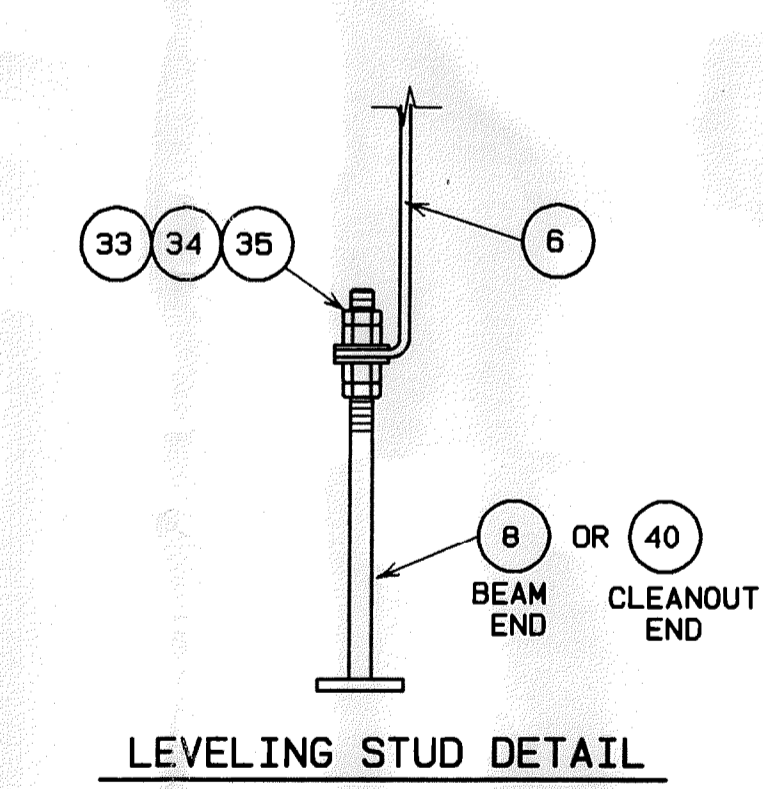
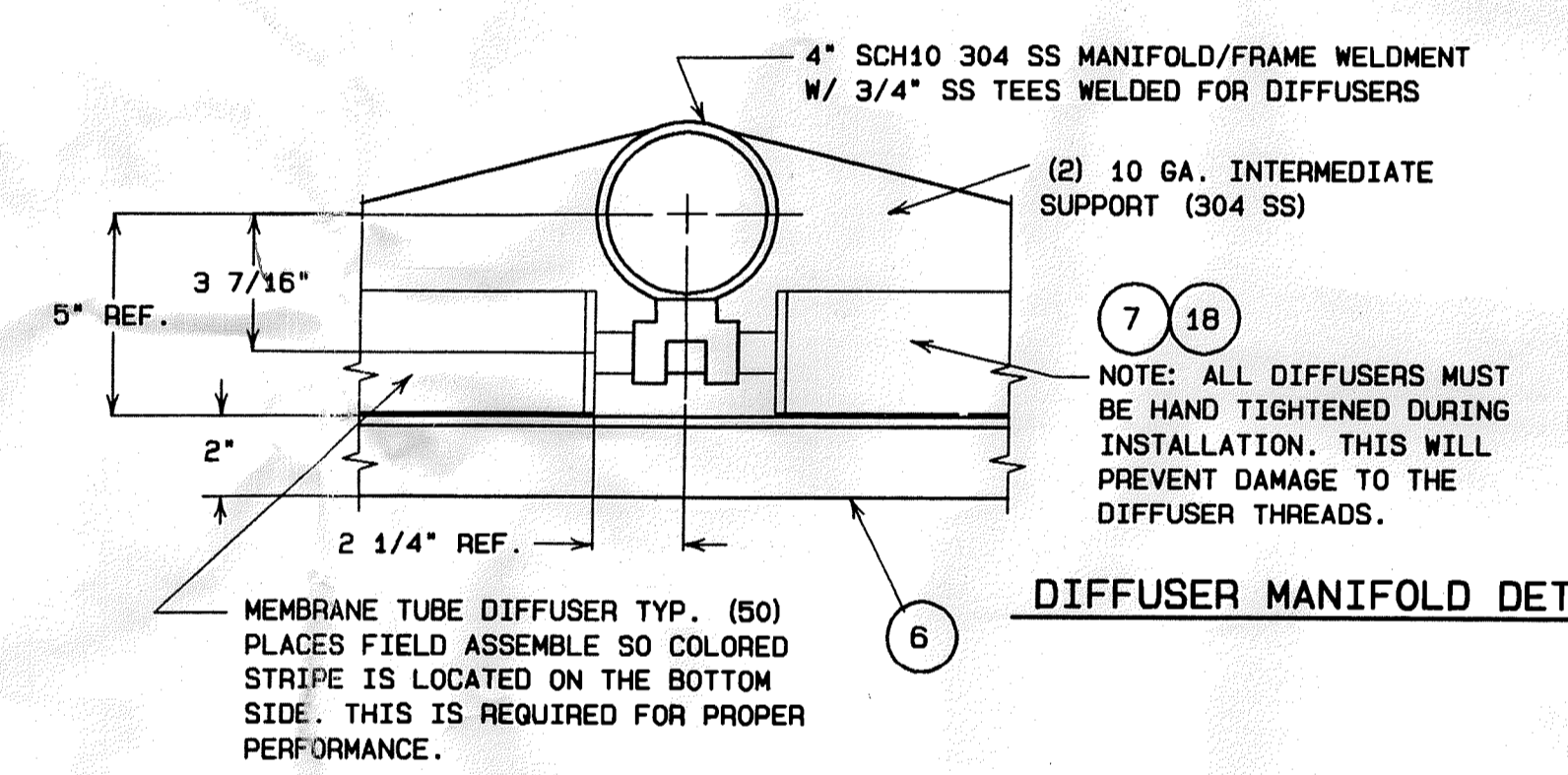
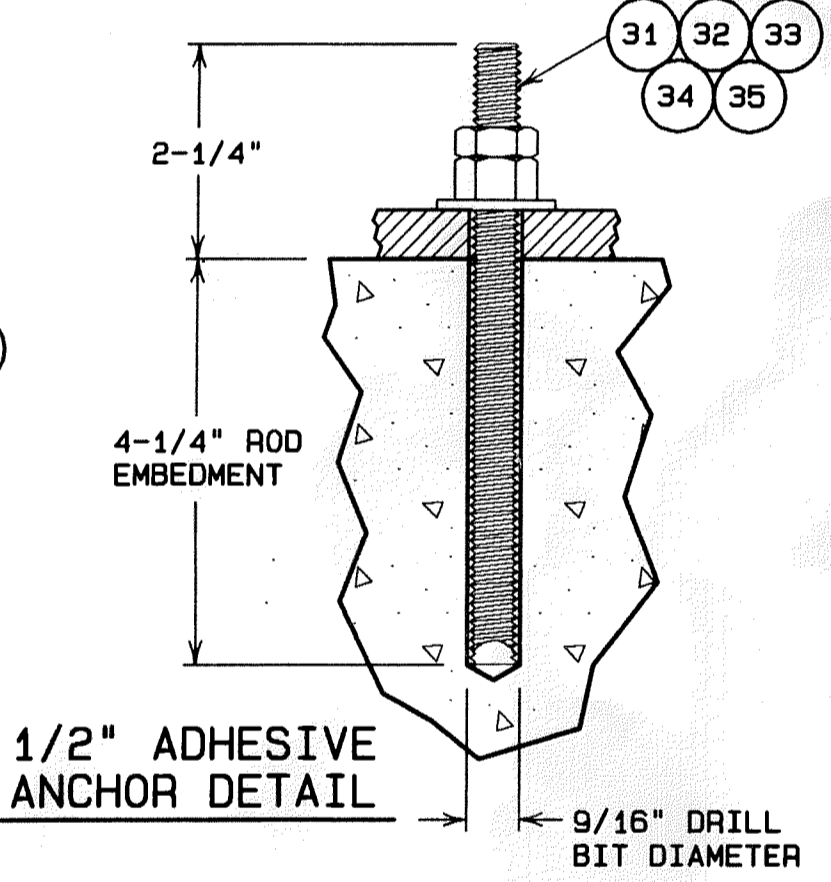
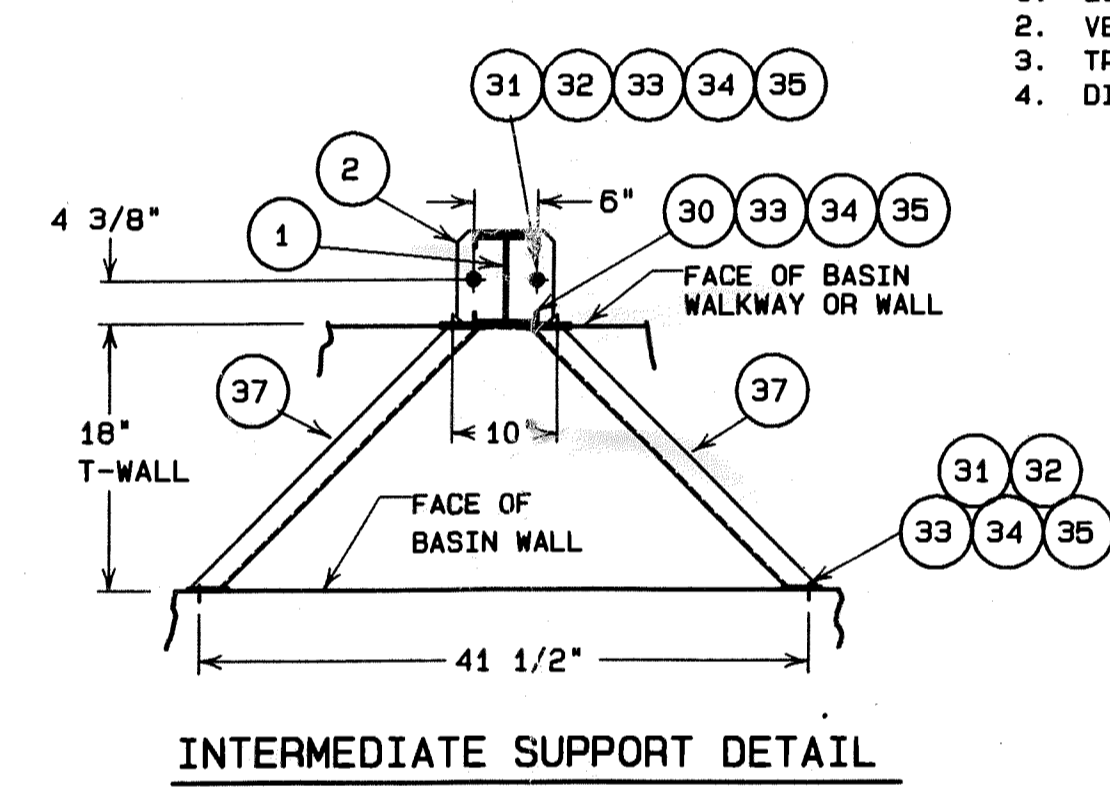
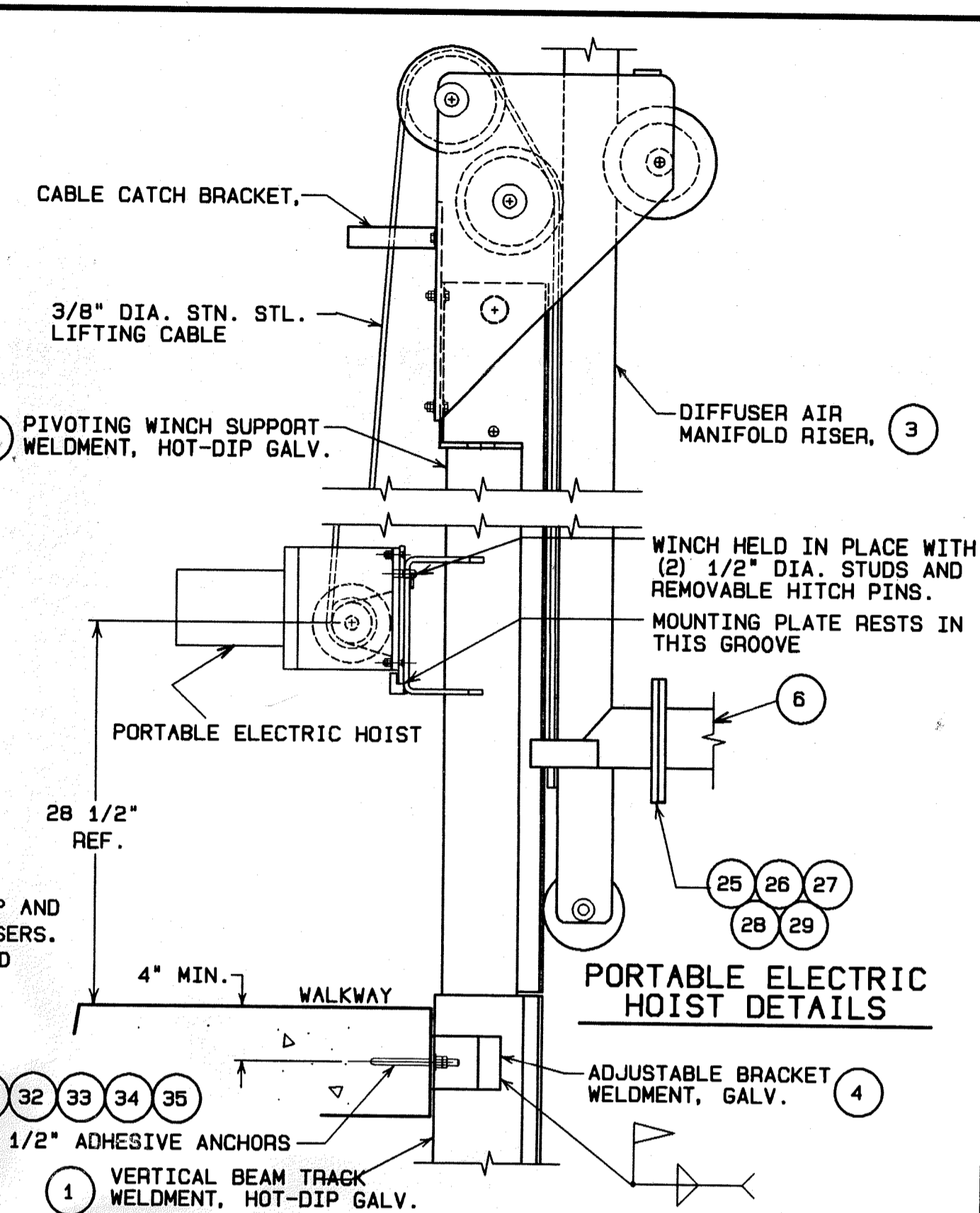
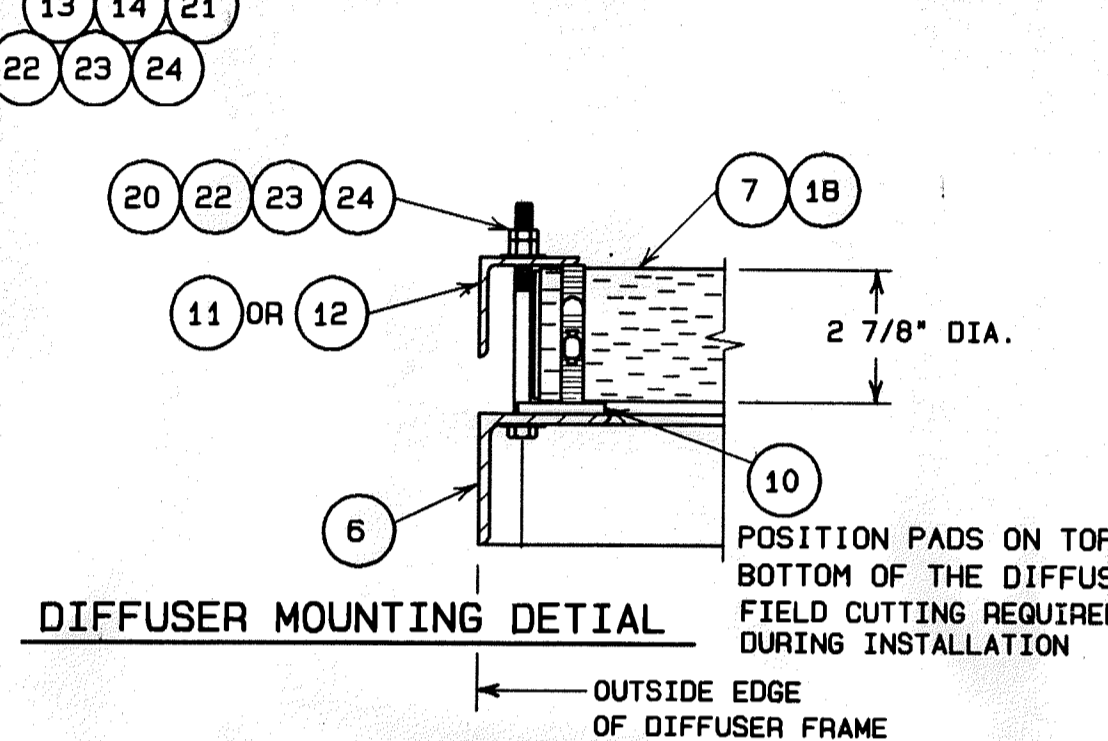
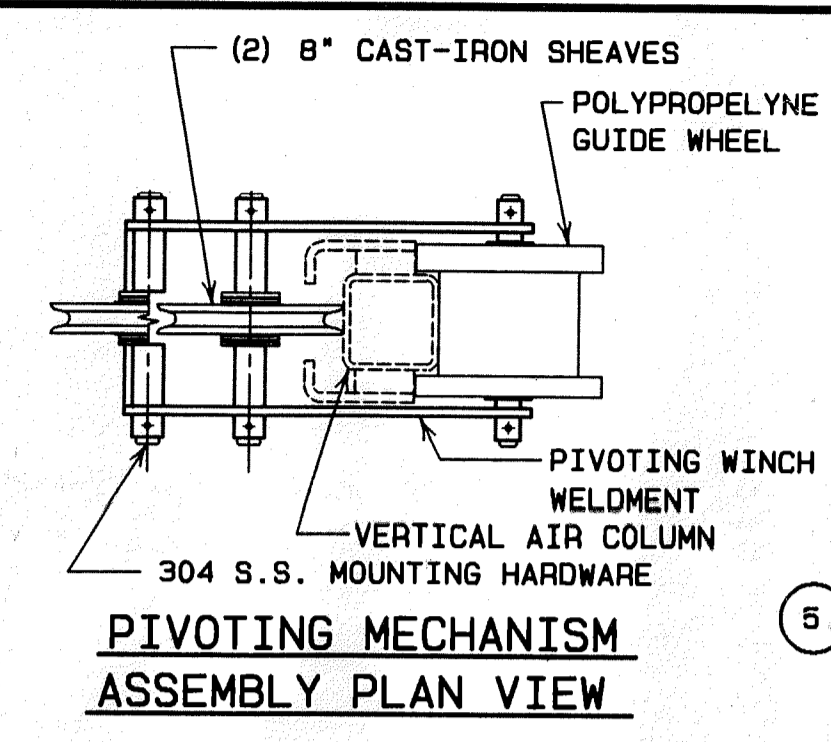


DEWATERING SUPPORT POST LOCATION DETAIL

JOB NAME: PEASE DEVELOPMENT AUTHORITY		DO NOT SCALE DRAWING		AQUA-AEROBIC SYSTEMS, INC.	
DRN BY: GML	DATE: 4/26/96	ACT WT:		NAME: 10' x 9' / 18" DECANTER INSTALLATION	
CKD BY: GML		SCALE:		HP/SIZE:	
		PATH: F:\DATA\SBR\JOB104846		TYPE: SHEET 2 OF 2	
		CAD NO.: 94846082		DWG. NO.: 94846002	
UNLESS OTHERWISE SPECIFIED					
FRACTIONAL DIMENSIONS ± 1/16					
ALL TWO PLACE DECIMALS ± .010					
ALL THREE PLACE DECIMALS ± .005					
ALL ANGLES ± 1/2°					
REF:	ECO	DATE	BY	REVISION	



- NOTE: RETRIEVABLE DIFFUSER ASSEMBLY IS SUPPLIED AS (4) MAJOR COMPONENTS FOR FIELD ASSEMBLY BY OTHERS. SMALLER COMPONENTS SUCH AS DIFFUSERS, LEVELING LEGS, RETAINING ANGLES, AND MISC. HARDWARE ARE SHIPPED LOOSE IN BOXES FOR FINAL ASSEMBLY.
1. LIFTING MECHANISM ASSEMBLY ----- WT. = 3531lbs.
 2. VERTICAL AIR COLUMN ASSEMBLY ----- WT. = 2251lbs.
 3. TRACK AND BEAM WELDMENT ----- WT. = 5321lbs.
 4. DIFFUSER FRAME WELDMENT ----- WT. = 3351lbs.



- RETRIEVABLE F.B. DIFFUSER INSTALLATION NOTES:**
1. PLEASE REVIEW ALL INSTALLATION AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING EQUIPMENT.
 2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS USED BE STAINLESS STEEL AND SECURED WITH FULL NUT AND JAM NUT AS SHOWN.
 3. ANTI-SIZE LUBRICANT IS RECOMMENDED ON ALL STAINLESS STEEL FASTENERS.
 4. SET EACH TRACK BEAM INTO POSITION AND ATTACH TO TANK WALL WITH BRACKETS AND ANCHORS PROVIDED. THE TRACK BEAM MUST BE HELD VERTICAL AND PLUMB +/- 1/4". ASSEMBLE THE 3/8" DIA. LIFTING CABLE FROM THE AIR MANIFOLD OVER THE TOP SHEAVE AND ONTO THE WINCH OF THE LIFTING MECHANISM WITH A CRANE TO SLIDE THE AIR MANIFOLD BEHIND FRONT FLANGE OF THE TRACK BEAM. CAUTION MUST BE OBSERVED TO PREVENT KINKING THE LIFTING CABLE. SLIDE AIR MANIFOLD DOWN TRACK BEAM UNTIL GUIDE WHEEL RESTS ON BASIN FLOOR. WRAP REMAINING CABLE AROUND DRUM OF WINCH TO REMOVE ALL SLACK, AND ASSEMBLE DIFFUSER FRAME, BRACE ANGLES, LEVELING STUDS, DIFFUSERS, ETC.
 5. THREAD THE FINE BUBBLE DIFFUSERS INTO THE TEES OF THE AIR MANIFOLD, UNTIL HAND TIGHT, WITH A YELLOW STRIP OR NOTCHED SLEEVE IS LOCATED ON THE BOTTOM OF EACH DIFFUSER. ONCE DIFFUSERS ARE ASSEMBLED INSTALL RETAINING ANGLES.
 6. ALL DIFFUSER RACKS IN THE BASIN MUST BE HELD LEVEL TO EACH OTHER WITHIN +/- 1/4", TO MAINTAIN UNIFORM AIR DISTRIBUTION.
 7. ALL PIPING AND HARDWARE BEYOND THE 3" AIR VALVE IS SUPPLIED BY OTHERS.
 8. REFER TO THE PROJECT PLAN VIEW / LAYOUT FOR ALL DIFFUSER BANK LOCATIONS.
 9. TOUCH-UP ALL FIELD WELDS WITH HOT-STICK GALVANIZE KIT (ITEM #39).

ITEM	QUAN.	PART NUMBER	DESCRIPTION	DWG.
40	2	94846016	LEVELING STUD 1/2"-13UNC x 18 1/8" LG 304SS	A
39	.25	2508210	HOT-STICK GALVANIZE KIT	A
38				
37	4	2903024-35	INTERMEDIATE SUPPORT BRACKET	GALV A
36	1	2911023	CABLE CATCH WELDMENT	304 SS C
35	30	2800426	WASHER, FLAT 1/2"	316 SS N
34	25	2800294	NUT, FULL 1/2-13UNC	316 SS N
33	25	2800517	NUT, FULL 1/2-13UNC	316 SS N
32	12	2803545	ANCHOR ROD, 1/2-13UNC x 6 1/2" LG	304 SS A
31	12	2803544	ADHESIVE CARTRIDGE, 1/2"	N
30	5	2800348	HHCS, 1/2-13 UNC x 2" LG	316 SS N
29	16	2802498	WASHER, FLAT 5/8"	316 SS N
28	8	2800302	NUT, JAM 5/8-11UNC	316 SS N
27	8	2800301	NUT, FULL 5/8-11UNC	316 SS N
26	8	2800396	HHCS, 5/8-11 UNC x 3" LG	316 SS N
25	1	2800580	GASKET, 4" RED RUBBER w/HOLES	N
24	36	2800381	WASHER, FLAT 3/8"	316 SS N
23	18	2800403	NUT, JAM 3/8-16UNC	316 SS N
22	18	2800481	NUT, FULL 3/8-16UNC	316 SS N
21	6	2800421	HHCS, 3/8-16 UNC x 1 1/2" LG	316 SS N
20	12	2800397	HHCS, 3/8-16 UNC x 4 1/2" LG	316 SS N
19	1	2803748	FLANGE, 3" 150# THD	GALV N
18	25qt	2805154	TEFLON THREAD PASTE	N
17	1	2803742	NY-GLASS COUPLING, 3" #300F-N	NYLON/FRP N
16	1	2808006-3	HOSE ASSEMBLY, 3" x 13'-0" LG	B
15	1	2806583	VALVE, 3" BUTTERFLY w/LEVER	PRATT N
14	1	2805591	GASKET END PLATE	URETHANE A
13	1	2805590	END PLATE	SS A
12	2	2805896	RETAINER ANGLE x 53" LG	304 SS B
11	4	2805895	RETAINER ANGLE x 47" LG	304 SS B
10	8	2803740	SPONGE NEOPRENE, 1/4"x2"x72" LG	N
9	2	2805899	BRACE ANGLE, 2"x2x1/4"x113"	GALV B
8	2	2902939	LEVELING STUD, 1/2-13UNC x 15 1/8" LG	304 SS A
7	50	2980299	DIFFUSER ASSEMBLY FINE BUBBLE	B
6	1	2910016	DIFFUSER FRAME WELDMENT	304 SS D
5	1	2981078	LIFTING MECHANISM ASSEMBLY ELECT. WINCH GALV	D
4	1	2910258	ADJUSTABLE BRACKET WELDMENT 40-50 TUBE	GALV C
3	1	2981077	VERTICAL AIR COLUMN ASSEMBLY	GALV C
2	1	2910780	BEAM BASE PLATE	GALV B
1	1	2910259-11	VERTICAL SUPT BEAM WLDMT x 25'-1" LG.	GALV C

JOB NAME: PEASE DEVELOPMENT AUTHORITY

DO NOT SCALE DRAWING

DRN BY: GML DATE: 4/26/96

CKD BY: [Signature] ACT WT:

SCALE:

PATH: F:\DATA\SRV\JOB\104846

CAD NO.: 94846003

UNLESS OTHERWISE SPECIFIED

FRACTIONAL DIMENSIONS ± 1/16

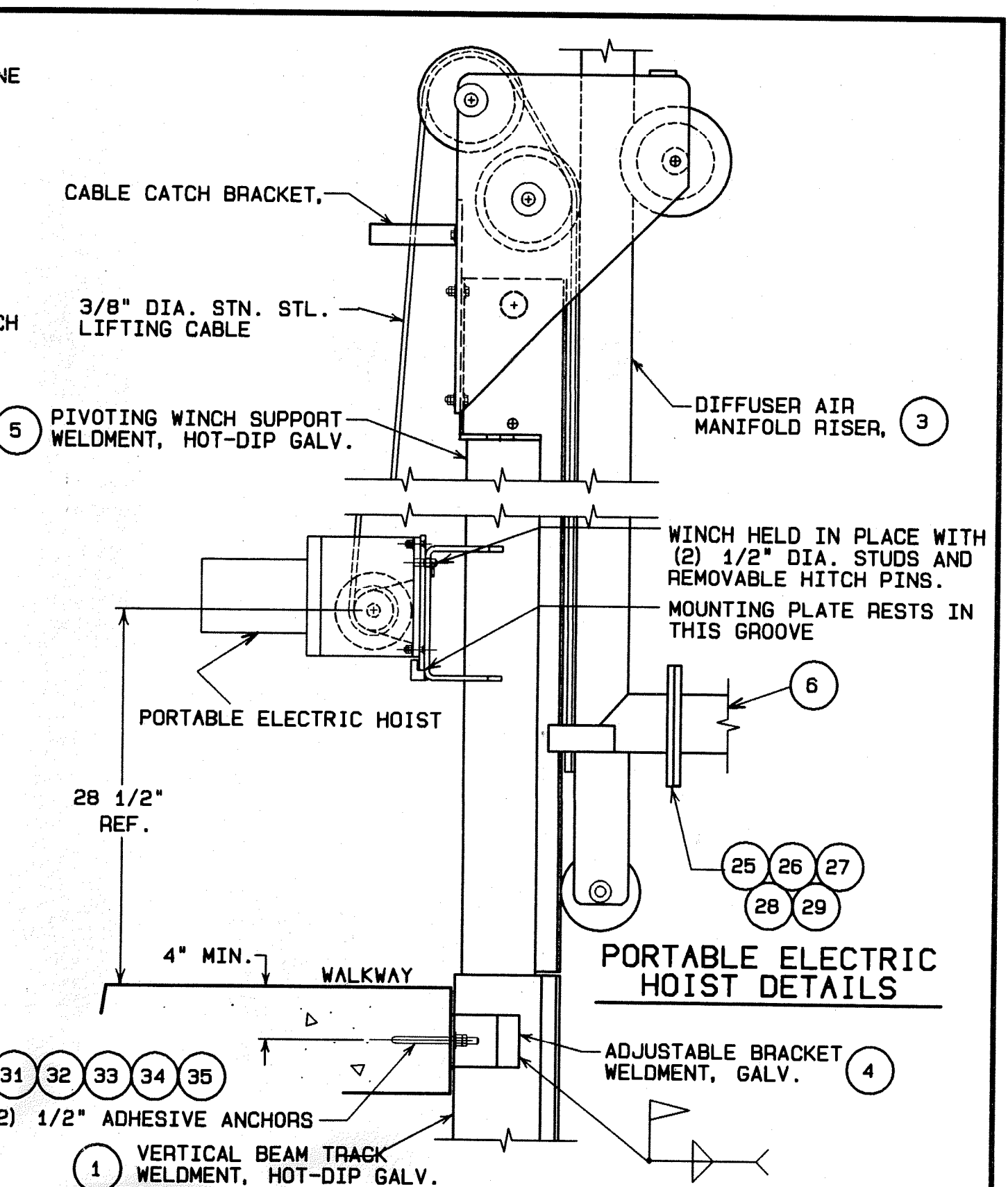
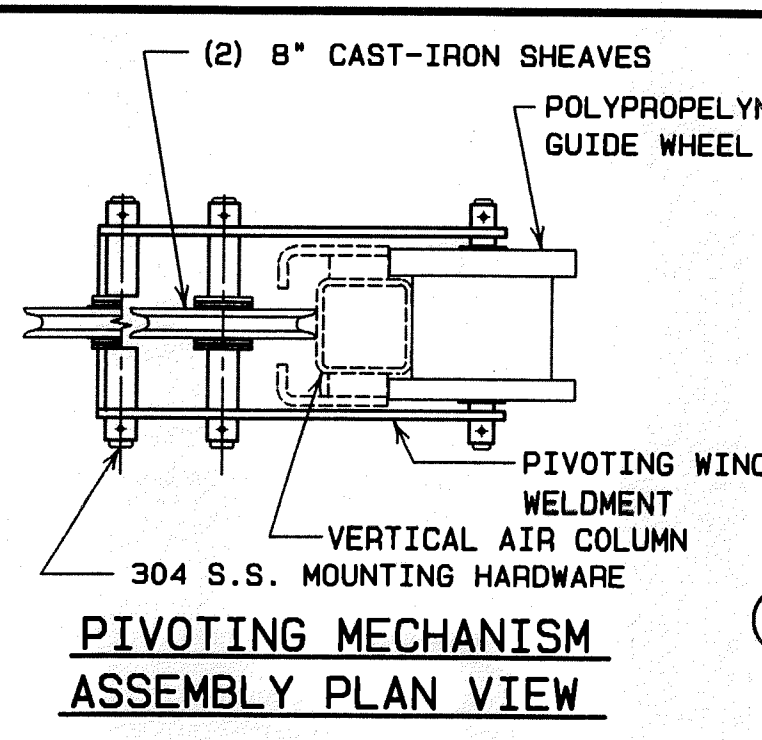
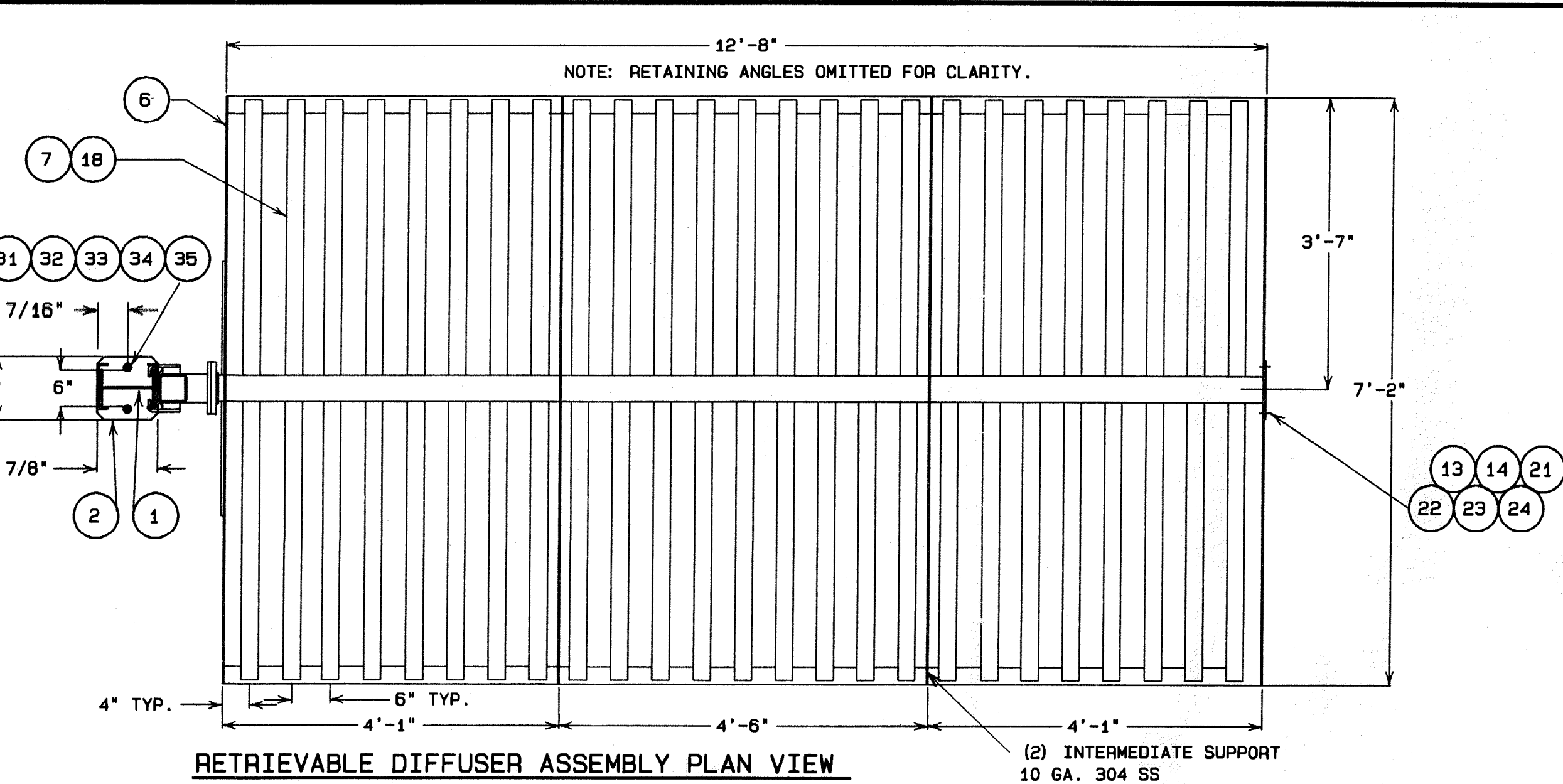
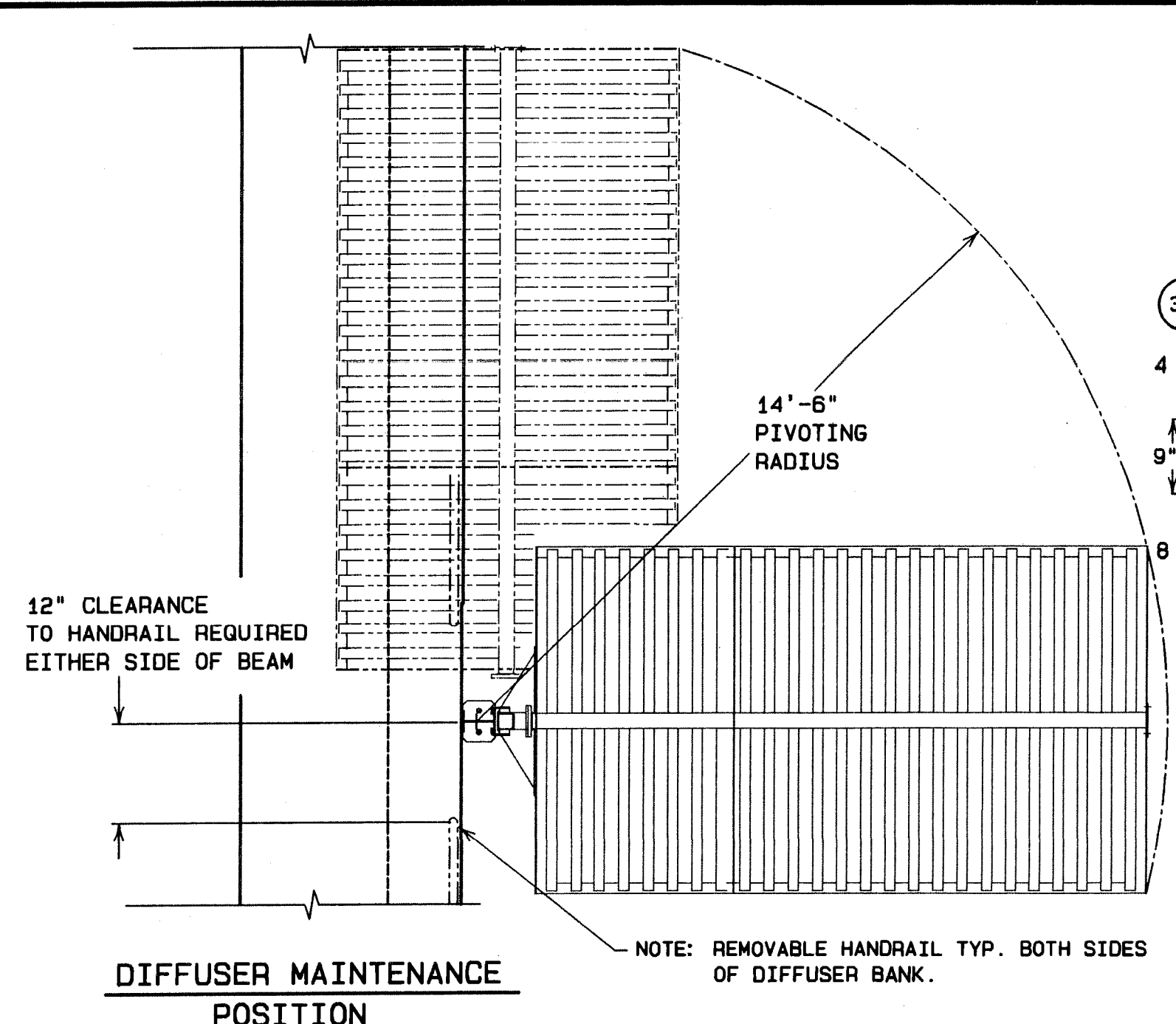
ALL TWO PLACE DECIMALS ± .010

ALL THREE PLACE DECIMALS ± .005

ALL ANGLES ± 1/2°

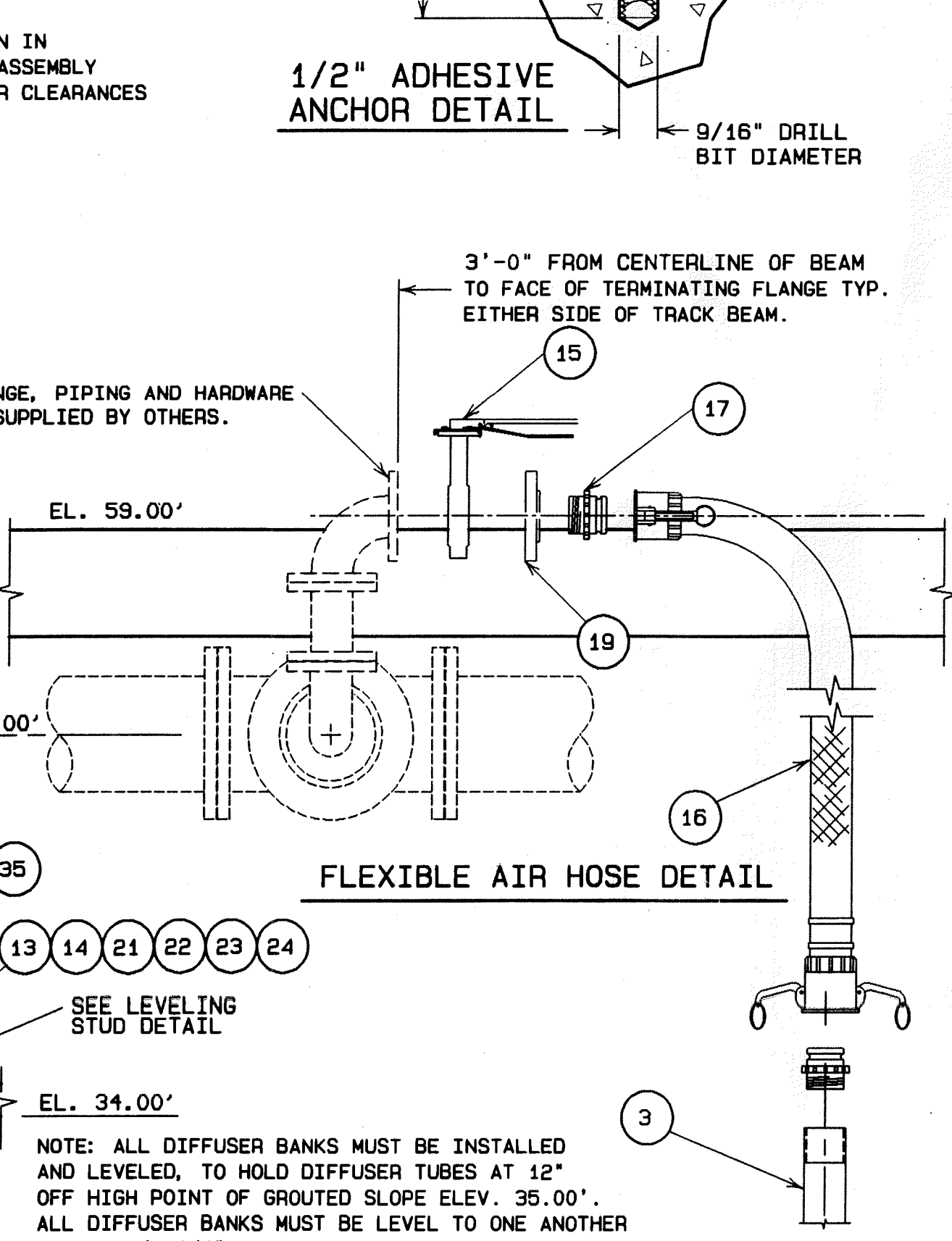
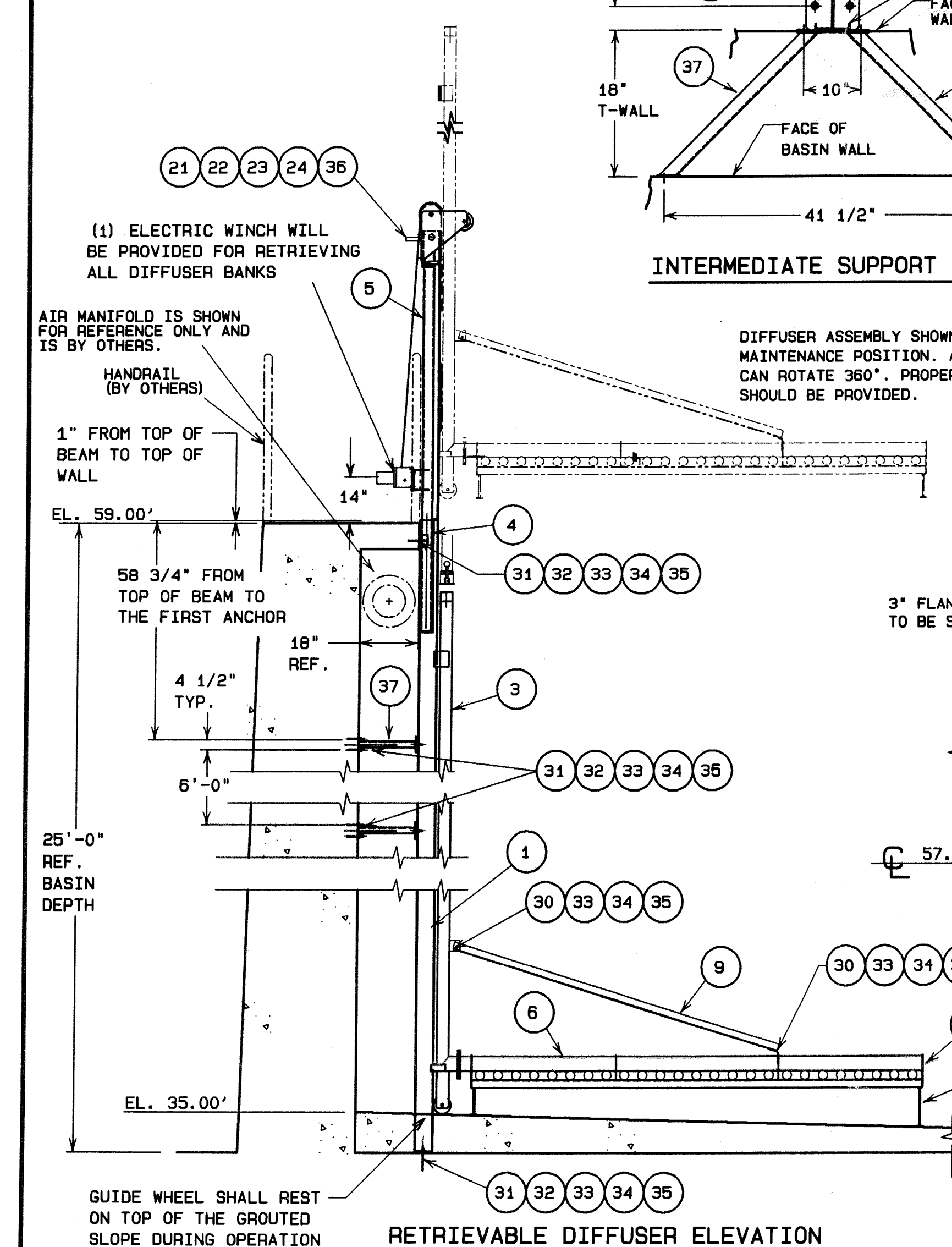
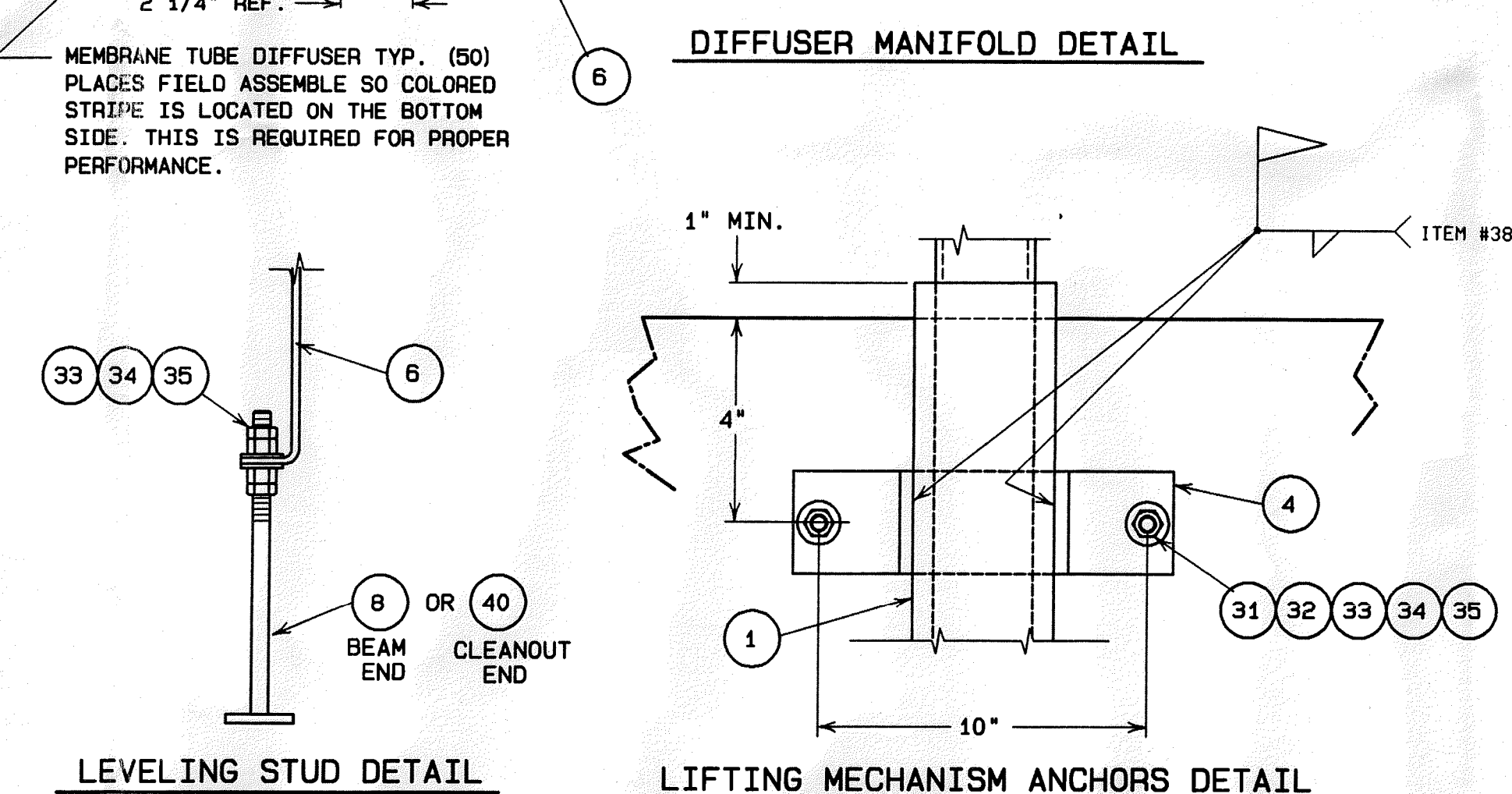
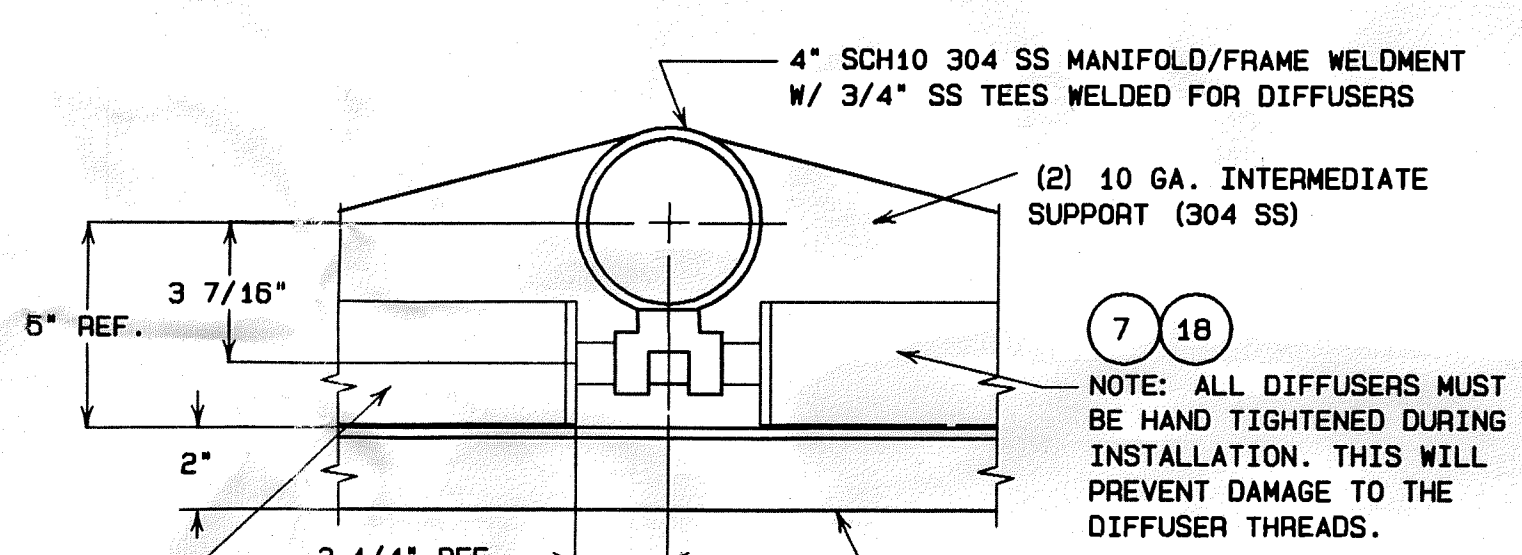
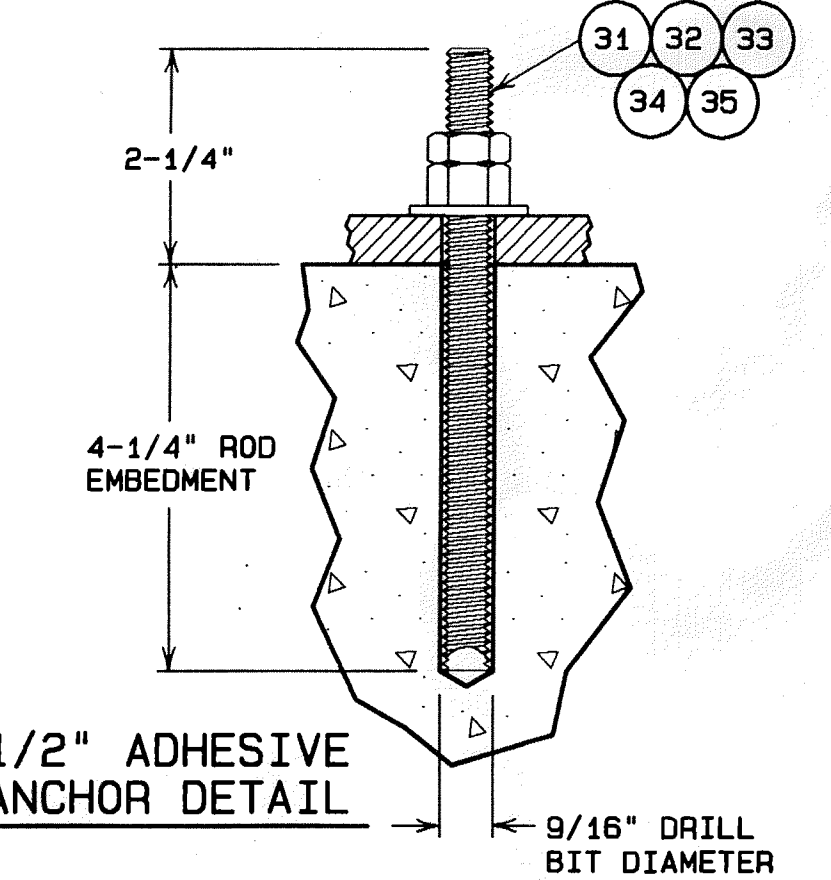
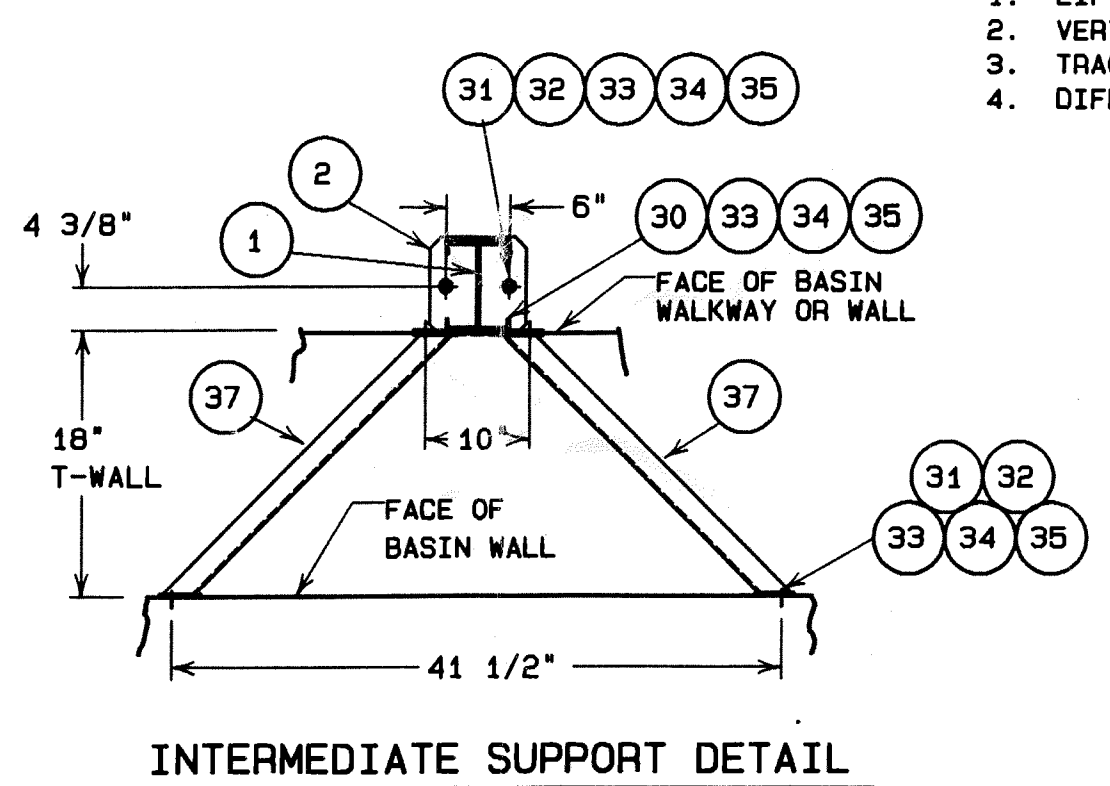
HP/SIZE: TYPE: SHEET 1 OF 1 DWG. NO.: 94846003

REF. ECO. DATE BY REVISION



NOTE: RETRIEVABLE DIFFUSER ASSEMBLY IS SUPPLIED AS (4) MAJOR COMPONENTS FOR FIELD ASSEMBLY BY OTHERS. SMALLER COMPONENTS SUCH AS DIFFUSERS, LEVELING LEGS, RETAINING ANGLES, AND MISC. HARDWARE ARE SHIPPED LOOSE IN BOXES FOR FINAL ASSEMBLY.

1. LIFTING MECHANISM ASSEMBLY ----- WT. = 353lbs.
2. VERTICAL AIR COLUMN ASSEMBLY ----- WT. = 225lbs.
3. TRACK AND BEAM WELDMENT ----- WT. = 532lbs.
4. DIFFUSER FRAME WELDMENT ----- WT. = 335lbs.

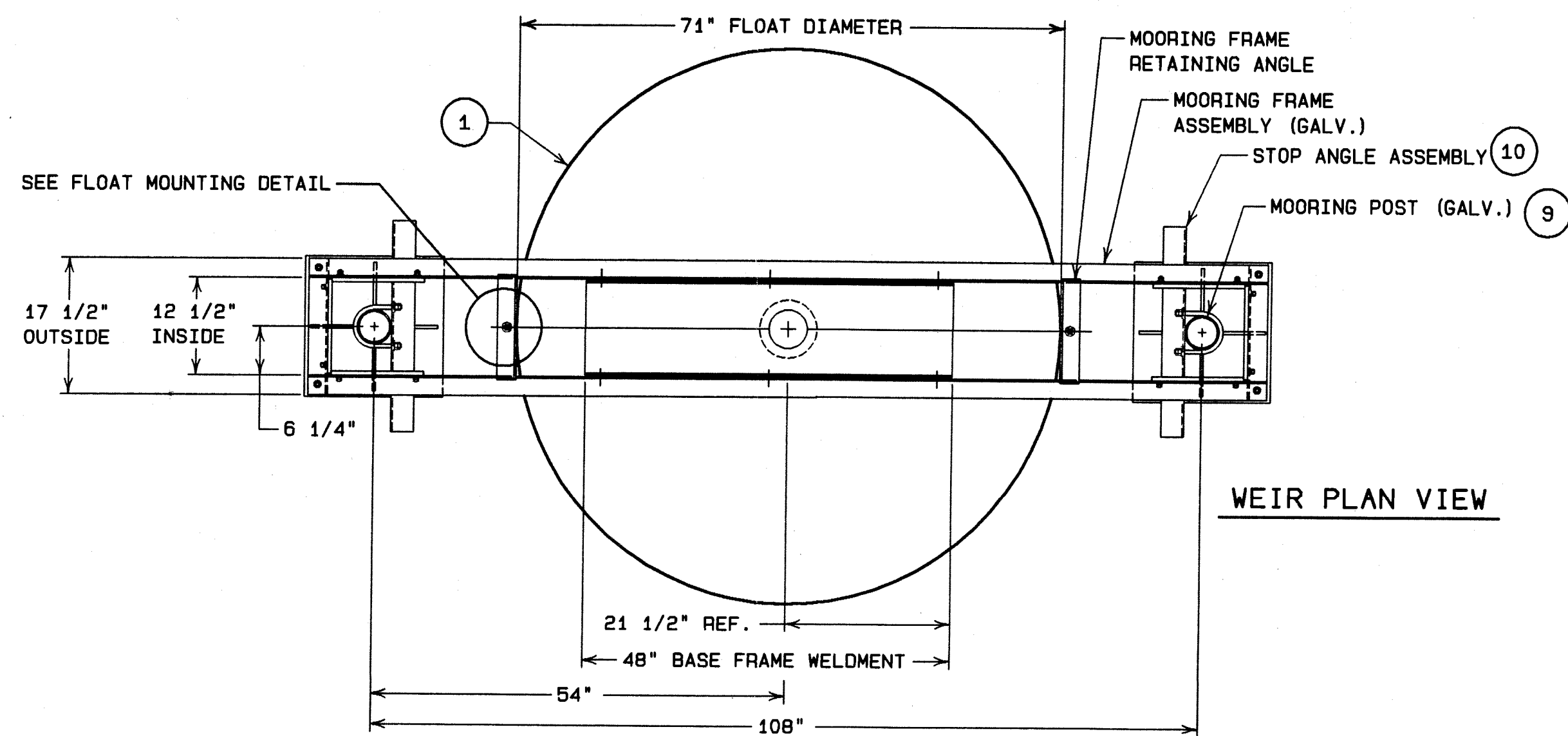


- RETRIEVABLE F.B. DIFFUSER INSTALLATION NOTES:**
1. PLEASE REVIEW ALL INSTALLATION AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING EQUIPMENT.
 2. IT IS RECOMMENDED THAT ALL THREADED FASTENERS USED BE STAINLESS STEEL AND SECURED WITH FULL NUT AND JAM NUT AS SHOWN.
 3. ANTI-SIEZE LUBRICANT IS RECOMMENDED ON ALL STAINLESS STEEL FASTENERS.
 4. SET EACH TRACK BEAM INTO POSITION AND ATTACH TO TANK WALL WITH BRACKETS AND ANCHORS PROVIDED. THE TRACK BEAM MUST BE HELD VERTICAL AND PLUMB +/- 1/4". ASSEMBLE THE 3/8" DIA. LIFTING CABLE FROM THE AIR MANIFOLD OVER THE TOP SHEAVE AND ONTO THE WINCH OF THE LIFTING MECHANISM WITH A CRANE TO SLIDE THE AIR MANIFOLD BEHIND FRONT FLANGE OF THE TRACK BEAM. CAUTION MUST BE OBSERVED TO PREVENT KINKING THE LIFTING CABLE. SLIDE AIR MANIFOLD DOWN TRACK BEAM UNTIL GUIDE WHEEL RESTS ON BASIN FLOOR. WRAP REMAINING CABLE AROUND DRUM OF WINCH TO REMOVE ALL SLACK, AND ASSEMBLE DIFFUSER FRAME, BRACE ANGLES, LEVELING STUDS, DIFFUSERS, ETC.
 5. THREAD THE FINE BUBBLE DIFFUSERS INTO THE TEE'S OF THE AIR MANIFOLD, UNTIL HAND TIGHT, WITH A YELLOW STRIP OR NOTCHED SLEEVE IS LOCATED ON THE BOTTOM OF EACH DIFFUSER. ONCE DIFFUSERS ARE ASSEMBLED INSTALL RETAINING ANGLES.
 6. ALL DIFFUSER RACKS IN THE BASIN MUST BE HELD LEVEL TO EACH OTHER WITHIN +/- 1/4", TO MAINTAIN UNIFORM AIR DISTRIBUTION.
 7. ALL PIPING AND HARDWARE BEYOND THE 3" AIR VALVE IS SUPPLIED BY OTHERS.
 8. REFER TO THE PROJECT PLAN VIEW / LAYOUT FOR ALL DIFFUSER BANK LOCATIONS.
 9. TOUCH-UP ALL FIELD WELDS WITH HOT-STICK GALVANIZE KIT (ITEM #38).

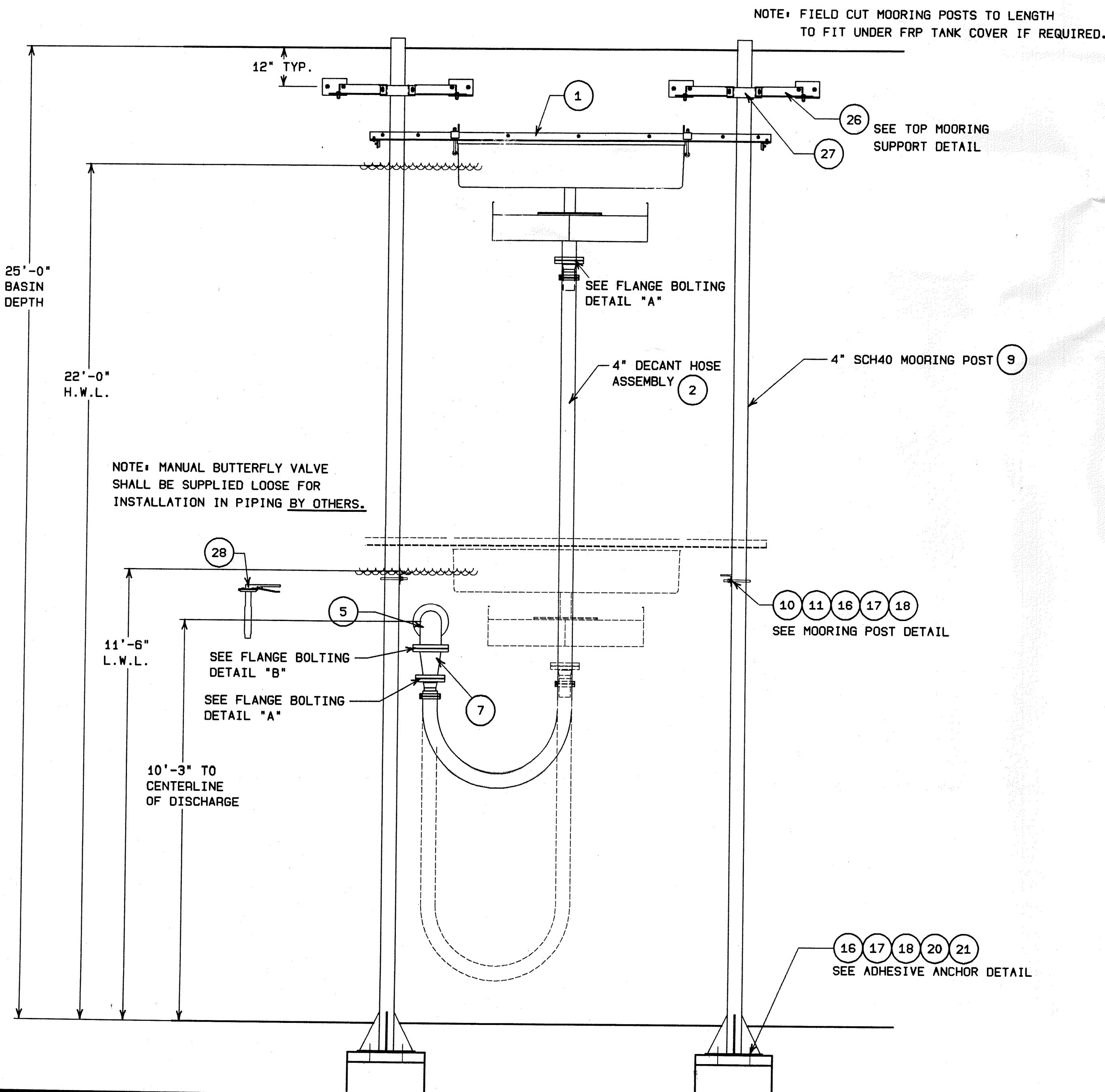
ITEM	QUAN.	PART NUMBER	DESCRIPTION	UNIT
39	2	94846016	LEVELING STUD 1/2"-13UNC x 18 1/8" LG. 304 SS	A
38	.20	2508210	HOT-STICK GALVANIZE KIT	A
37	4	2903024-35	INTERMEDIATE SUPPORT BRACKET	GALV C
36	1	2911023	CABLE CATCH WELDMENT	304 SS A
35	30	2600426	WASHER, FLAT 1/2"	316 SS N
34	25	2600234	NUT, JAM 1/2-13UNC	316 SS N
33	25	2600517	NUT, FULL 1/2-13UNC	316 SS N
32	12	2603545	ANCHOR ROD, 1/2-13UNC x 6 1/2" LG	304 SS A
31	12	2603544	ADHESIVE CARTRIDGE, 1/2"	N
30	5	2600348	HHCS, 1/2-13UNC x 2" LG	316 SS N
29	16	2602498	WASHER, FLAT 5/8"	316 SS N
28	8	2600302	NUT, JAM 5/8-11UNC	316 SS N
27	8	2600301	NUT, FULL 5/8-11UNC	316 SS N
26	8	2600396	HHCS, 5/8-11UNC x 3" LG	316 SS N
25	1	2600580	GASKET, 4" RED RUBBER W/HOLES	N
24	36	2600381	WASHER, FLAT 3/8"	316 SS N
23	18	2600403	NUT, JAM 3/8-16UNC	316 SS N
22	18	2600481	NUT, FULL 3/8-16UNC	316 SS N
21	6	2600421	HHCS, 3/8-16UNC x 1 1/2" LG	316 SS N
20	12	2600397	HHCS, 3/8-16UNC x 4 1/2" LG	316 SS N
19	1	2603748	FLANGE, 3" 150# THD	GALV N
18	.25qt	2605154	TEFLON THREAD PASTE	N
17	1	2603742	NY-GLASS COUPLING, 3" #300F-N	NYLON/FRP N
16	1	2606006-3	HOSE ASSEMBLY, 3" x 13'-0" LG	B
15	1	2606583	VALVE, 3" BUTTERFLY W/LEVER	PRATT N
14	1	2505591	GASKET END PLATE	URETHANE A
13	1	2505590	END PLATE	SS A
12	2	2505896	RETAINER ANGLE x 53" LG	304 SS B
11	4	2505895	RETAINER ANGLE x 47" LG	304 SS B
10	8	2603740	SPONGE NEOPRENE, 1/4"x2"x72" LG	N
9	2	2505899	BRACE ANGLE, 2"x2x1/4"x113"	GALV B
8	2	2902939	LEVELING STUD, 1/2-13UNC x 15 1/8" LG	304 SS A
7	50	2960299	DIFFUSER ASSEMBLY FINE BUBBLE	B
6	1	2910016	DIFFUSER FRAME WELDMENT	304 SS D
5	1	2961078	LIFTING MECHANISM ASSEMBLY ELECT. WINCH	GALV D
4	1	2910258	ADJUSTABLE BRACKET WELDMENT 40-50 TUBE	GALV C
3	1	2961077	VERTICAL AIR COLUMN ASSEMBLY	GALV C
2	1	2910780	BEAM BASE PLATE	GALV B
1	1	2910259-11	VERTICAL SUPT BEAM WLDMT x 25'-1" LG.	GALV C

REF.	ECO	DATE	BY	REVISION

JOB NAME: PEASE DEVELOPMENT AUTHORITY		DO NOT SCALE DRAWING		AQUA-AEROBIC SYSTEMS, INC. MANUFACTURERS OF WASTEWATER TREATMENT EQUIPMENT
DRN BY: GML	DATE: 4/26/96	ACT WT:	SCALE:	
PATH: F:\DATA\SR\JOB\104846				NAME: 50-TUBE RET. DIFFUSER INSTALLATION (L-WALL)
CAD NO.: 94846004				
UNLESS OTHERWISE SPECIFIED				HP/SIZE:
FRACTIONAL DIMENSIONS ± 1/16				
ALL TWO PLACE DECIMALS ± .010				TYPE: SHEET 1 OF 1
ALL THREE PLACE DECIMALS ± .005				
ALL ANGLES ± 1/2°				DWG. NO.: 94846004



WEIR PLAN VIEW

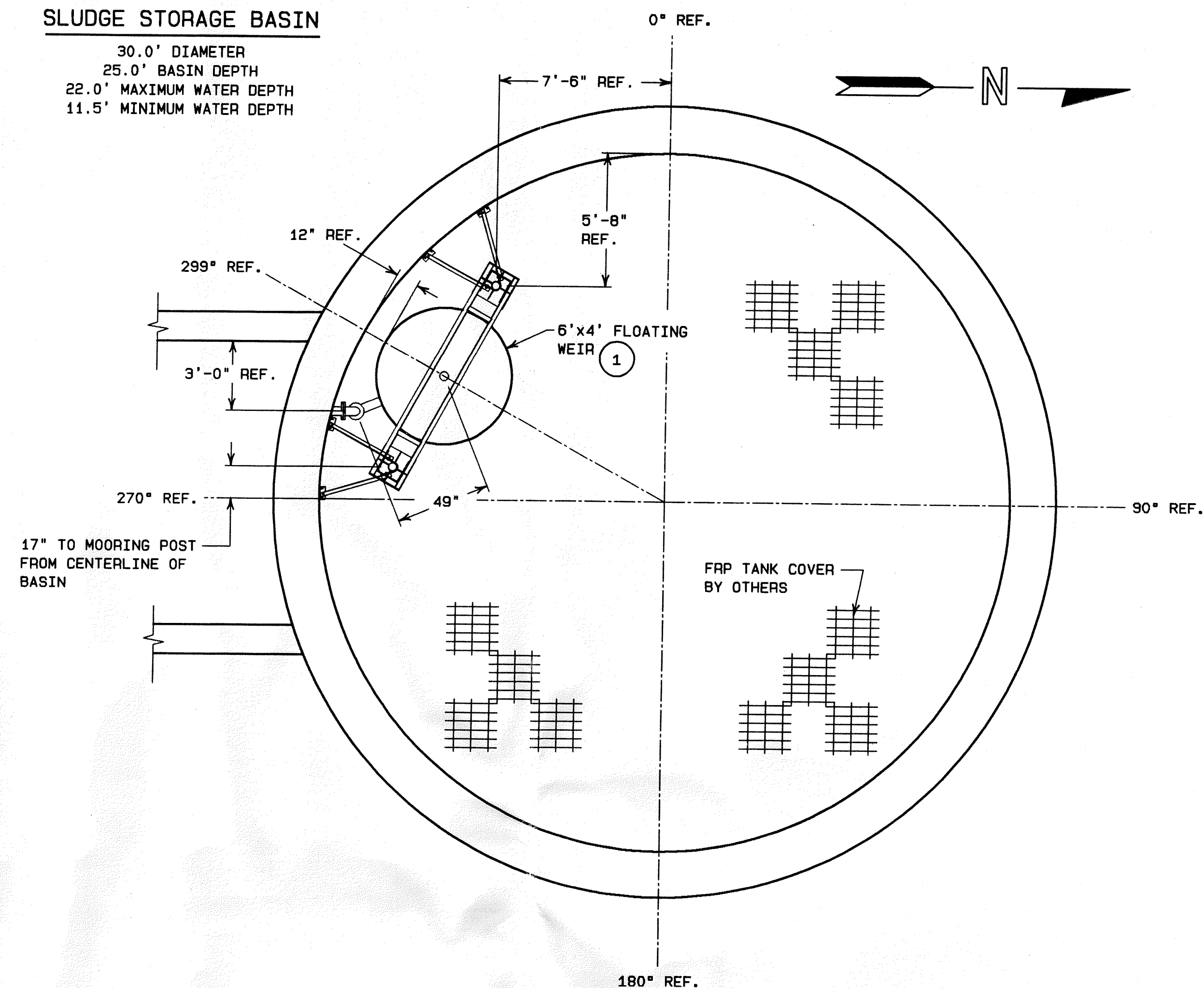


NOTE: FIELD CUT MOORING POSTS TO LENGTH TO FIT UNDER FRP TANK COVER IF REQUIRED.

NOTE: MANUAL BUTTERFLY VALVE SHALL BE SUPPLIED LOOSE FOR INSTALLATION IN PIPING BY OTHERS.

SLUDGE STORAGE BASIN

30.0' DIAMETER
25.0' BASIN DEPTH
22.0' MAXIMUM WATER DEPTH
11.5' MINIMUM WATER DEPTH



SLUDGE STORAGE BASIN PLAN VIEW

NOTE: CAST IRON FITTINGS FACTORY PAINTED WITH EPOXY PAINT 10-12 MILS D.F.T.

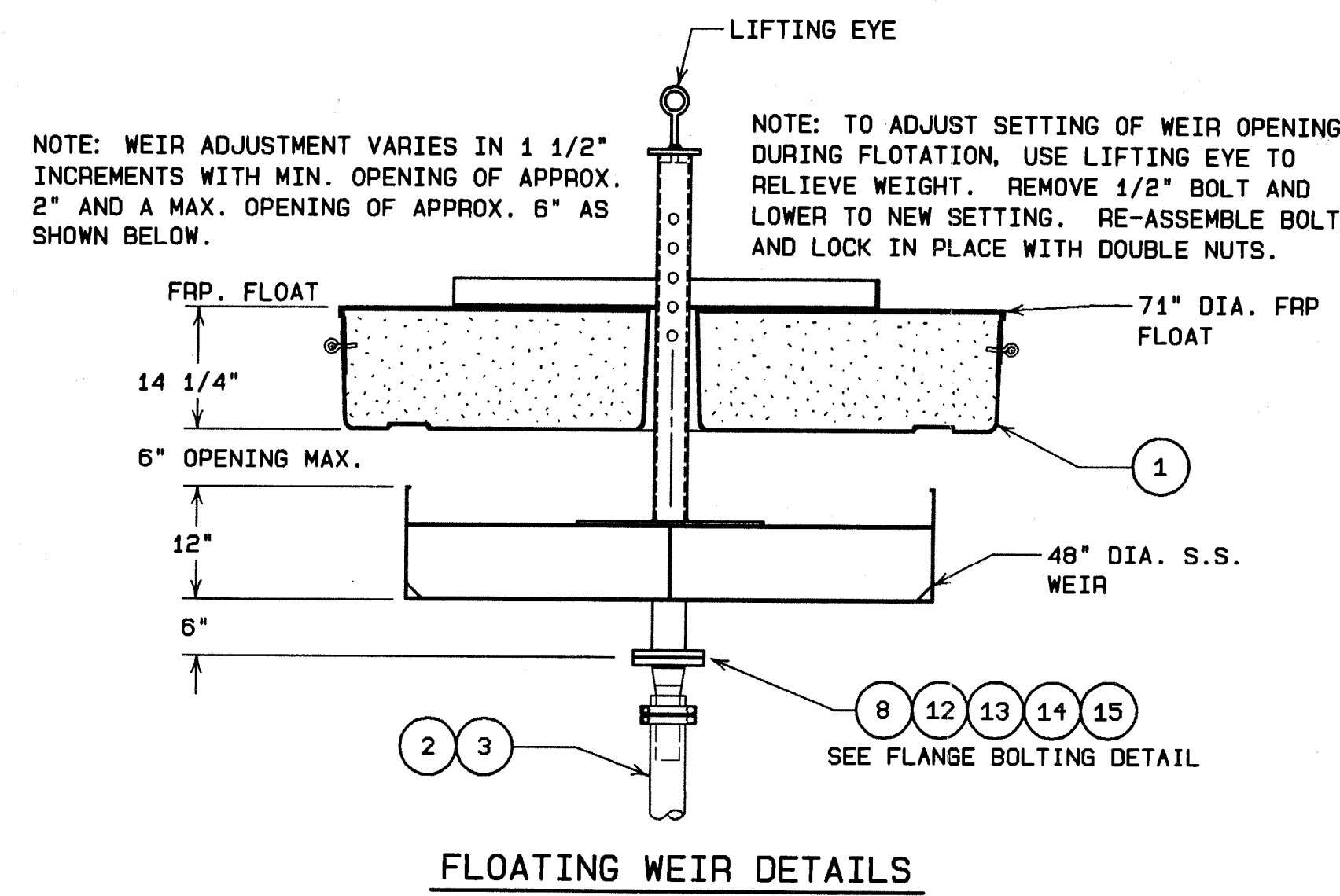
ITEM	QUAN.	PART NUMBER	DESCRIPTION	OWG
31	8	2505355	ANCHOR ROD 1/2"-13UNC x 10" LG.	304SS A
30	2	94846013	TOP SUPPORT WALL BRACKET	GALV B
29	1	2600826	COLD SPRAY GALVANIZE	N
28	1	2606585	VALVE, 6" MANUAL BUTTERFLY	PRATT N
27	1	2508237	MOORING POST SUPPORT MOUNTING BRACKET	GALV B
26	4	94846012	DECANTER TOP SUPPORT ANGLE	GALV B
25	16	2602580	WASHER, FLAT 3/4"	316SS N
24	8	2602579	NUT, JAM 3/4"-10UNC	316SS N
23	8	2600496	NUT, FULL 3/4"-10UNC	316SS N
22	8	2603767	HHCS, 3/4"-10UNC x 4" LG.	304SS N
21	8	2603545	ANCHOR ROD, 1/2" x 6.50"	304SS A
20	16	2603544	ADHESIVE CARTRIDGE, 1/2"	N
19	8	2600348	HHCS, 1/2"-13UNC x 2" LG	316SS N
18	38	2600426	FLAT WASHER, 1/2"	316SS N
17	28	2600234	JAM NUT, 1/2"-13UNC	316SS N
16	36	2600517	FULL NUT, 1/2"-13UNC	316SS N
15	32	2602498	FLAT WASHER, 5/8"	316SS N
14	16	2600302	JAM NUT, 5/8"-11UNC	316SS N
13	16	2600301	FULL NUT, 5/8"-11UNC	316SS N
12	16	2600396	HHCS, 5/8"-11UNC x 3" LG	316SS N
11	2	2605185	U-BOLT, 4" x 1/2"-13UNC, STANDARD	304SS A
10	2	2506120	DEWATERING SUPPORT ANGLE, 27" LG	GALV B
9	2	2910175-26	MRG POST, 4" SCH40 x 26'-0" LG	GALV B
8	2	2600580	GASKET, 4" RED RUBBER w/ HOLES	N
7	1	2605255	PIPE REDUCER, 6" x 4" 150# FLANGED	CI N
6	1	2600738	GASKET, 6" RED RUBBER w/ HOLES	N
5	1	2603736	ELBOW, 6" 90° SR, 150# FLANGED	CI N
4	1 QT	2605154	TEFLON THREAD PASTE	N
3	2	2603928	FLANGE, 4" 150#, THREADED	GALV N
2	1	2607350-19	DECANT HOSE ASSY, 4" x 19'-0" LG, GALV END	B
1	1	2961145	FLOATING WEIR ASSEMBLY, 6x4/4", GALV	B

FLOATING WEIR INSTALLATION NOTES:

- PLEASE REVIEW ALL INSTALLATION DRAWINGS AND ASSEMBLY INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLING THE EQUIPMENT.
- ALL FASTENERS MUST BE SECURED WITH FULL NUT AND JAM NUT.
- ANTI-SIEZE LUBRICANT IS RECOMMENDED ON ALL STAINLESS STEEL FASTENERS.
- ALL EFFLUENT DECANT PIPING HAS BEEN SHOWN FOR REFERENCE ONLY AND SHALL BE SUPPLIED AND INSTALLED BY OTHERS.
- POSTS ARE TO BE HELD VERTICAL AND PLUMB TO WITHIN +/- 1/4" TO ALLOW VERTICAL MOVEMENT OF UNIT. POSTS ARE TO BE FILLED WITH CONCRETE BY OTHERS AFTER INSTALLATION.
- TOUCH-UP ALL FIELD WELDS WITH HOT-STICK GALVANIZE KIT PROVIDED WITH DIFFUSER INSTALLATION OR COLD SPRAY GALVANIZE (ITEM #29).

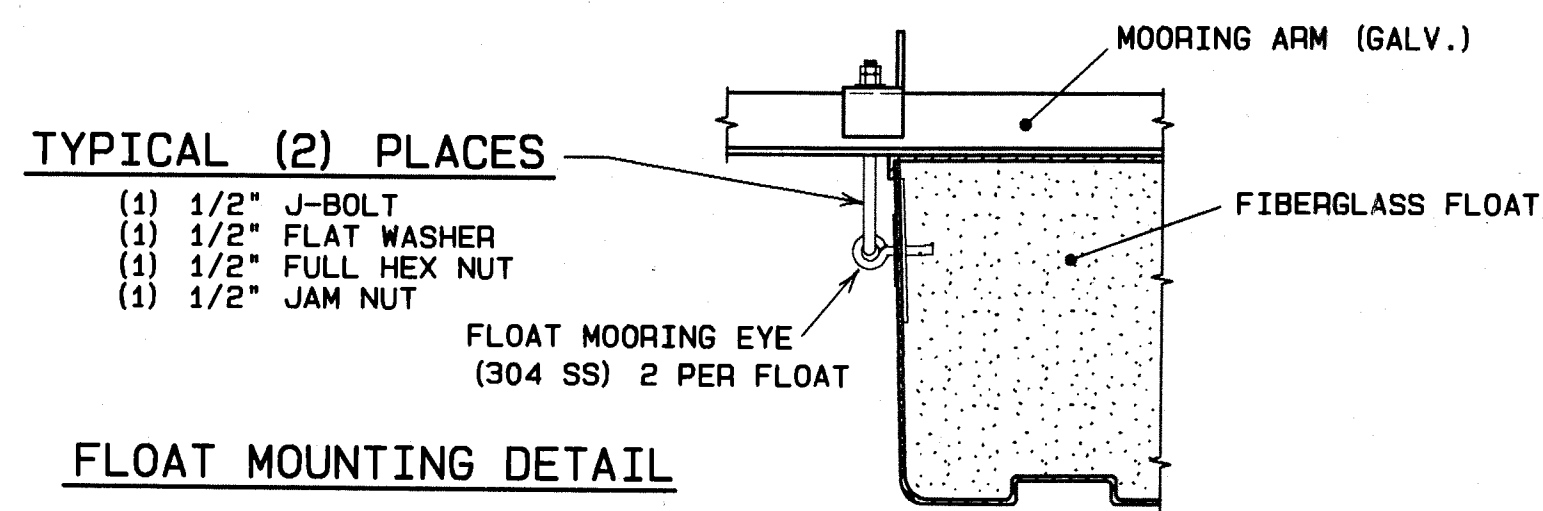
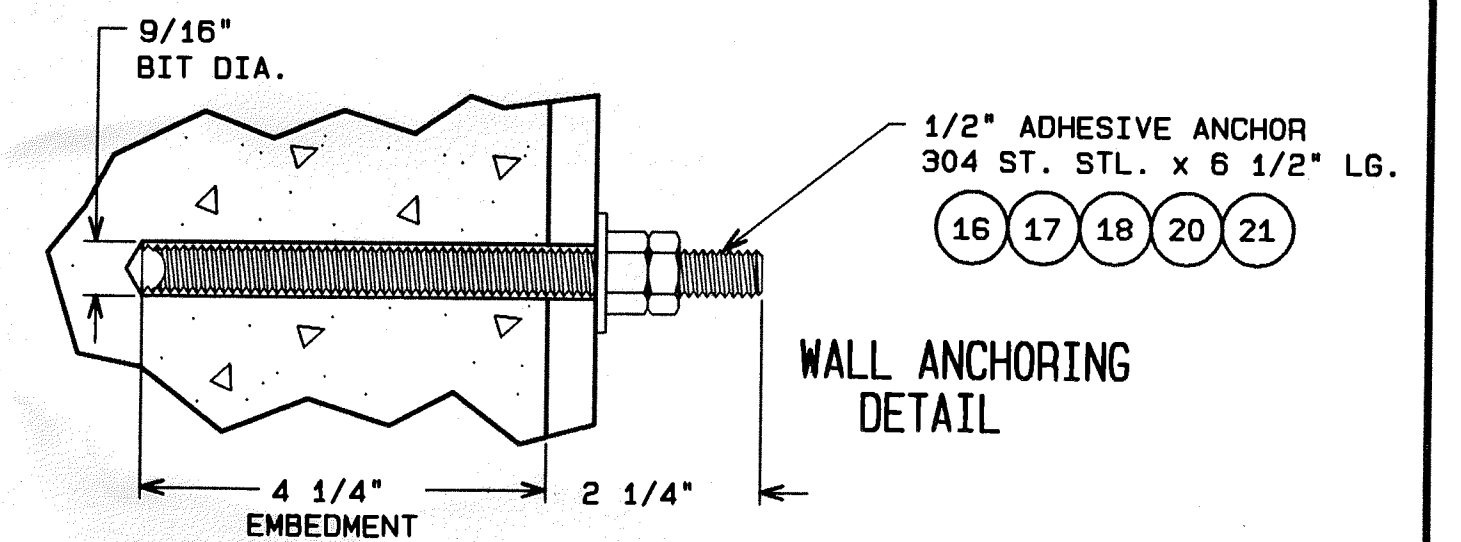
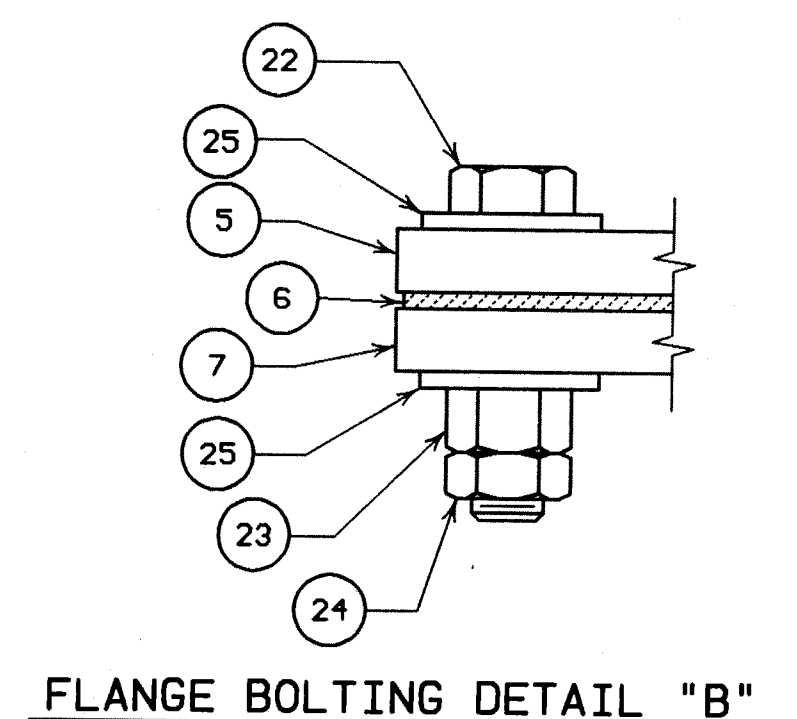
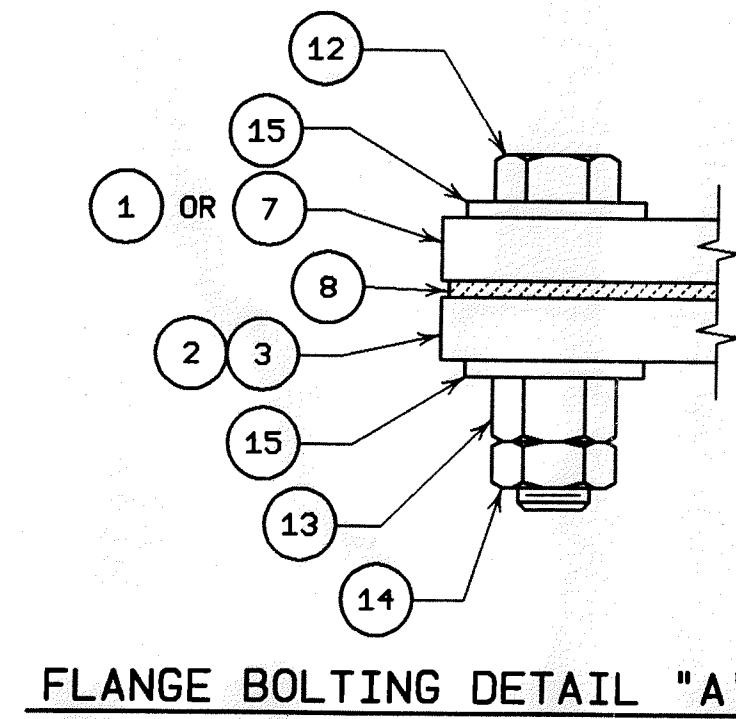
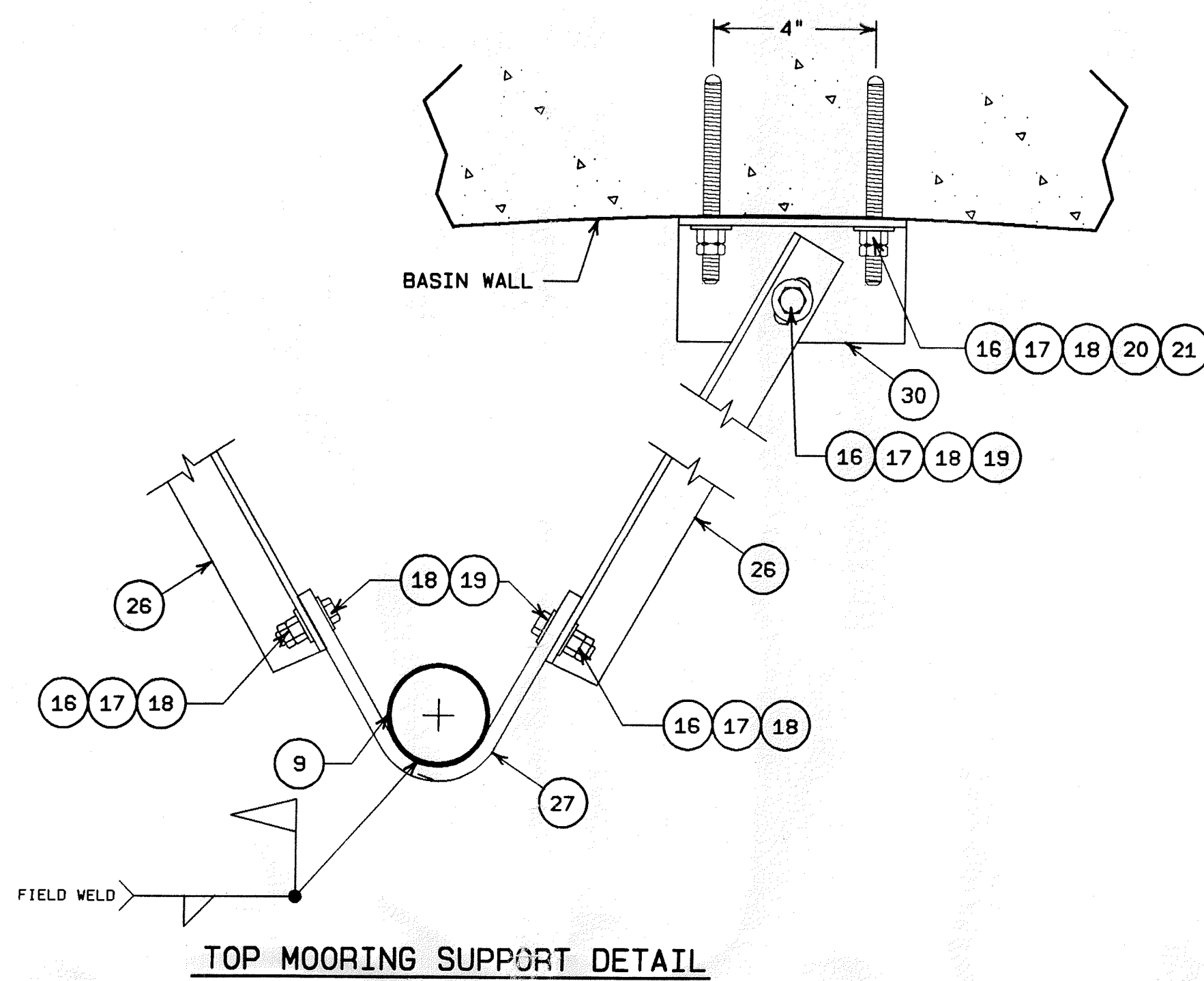
REF.	ECO	DATE	BY	REVISION

JOB NAME: PEASE DEVELOPMENT AUTHORITY		DO NOT SCALE DRAWING		AQUA-AEROBIC SYSTEMS, INC. MANUFACTURER OF WASTEWATER TREATMENT EQUIPMENT
DRN BY: GML	DATE: 4/26/96	CKD BY: [Signature]	ACT WT:	
SCALE:				NAME: 6' x 4' / 4" FLOATING WEIR INSTALLATION
PATH: F:\DATA\SRV\JOB\104846				
CAD NO.: 94846007				HP/SIZE: TYPE: SHEET 1 OF 2 DWG. NO.: 94846007
UNLESS OTHERWISE SPECIFIED				
FRACTIONAL DIMENSIONS ± 1/16				
ALL TWO PLACE DECIMALS ± .010				
ALL THREE PLACE DECIMALS ± .005				
ALL ANGLES ± 1/2°				

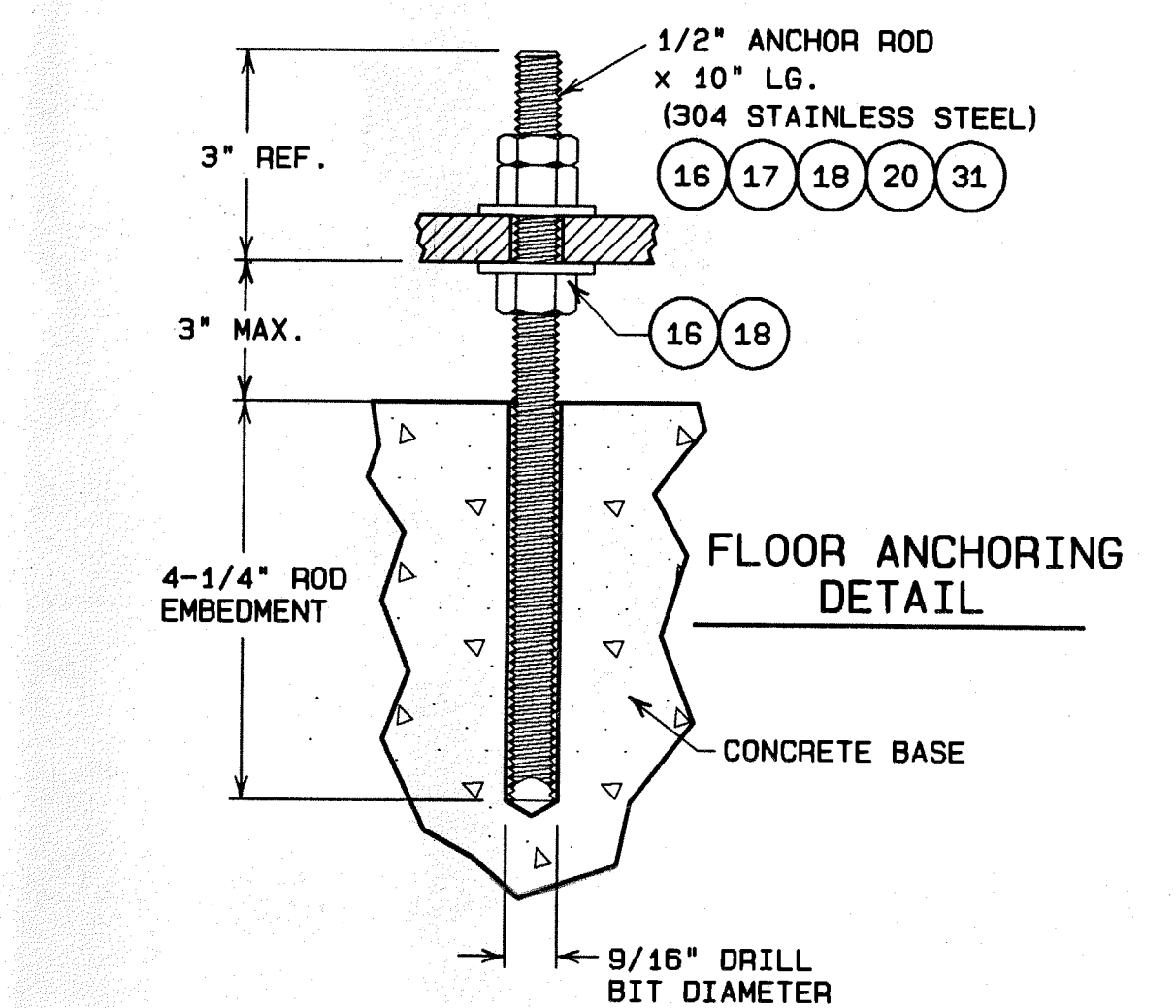
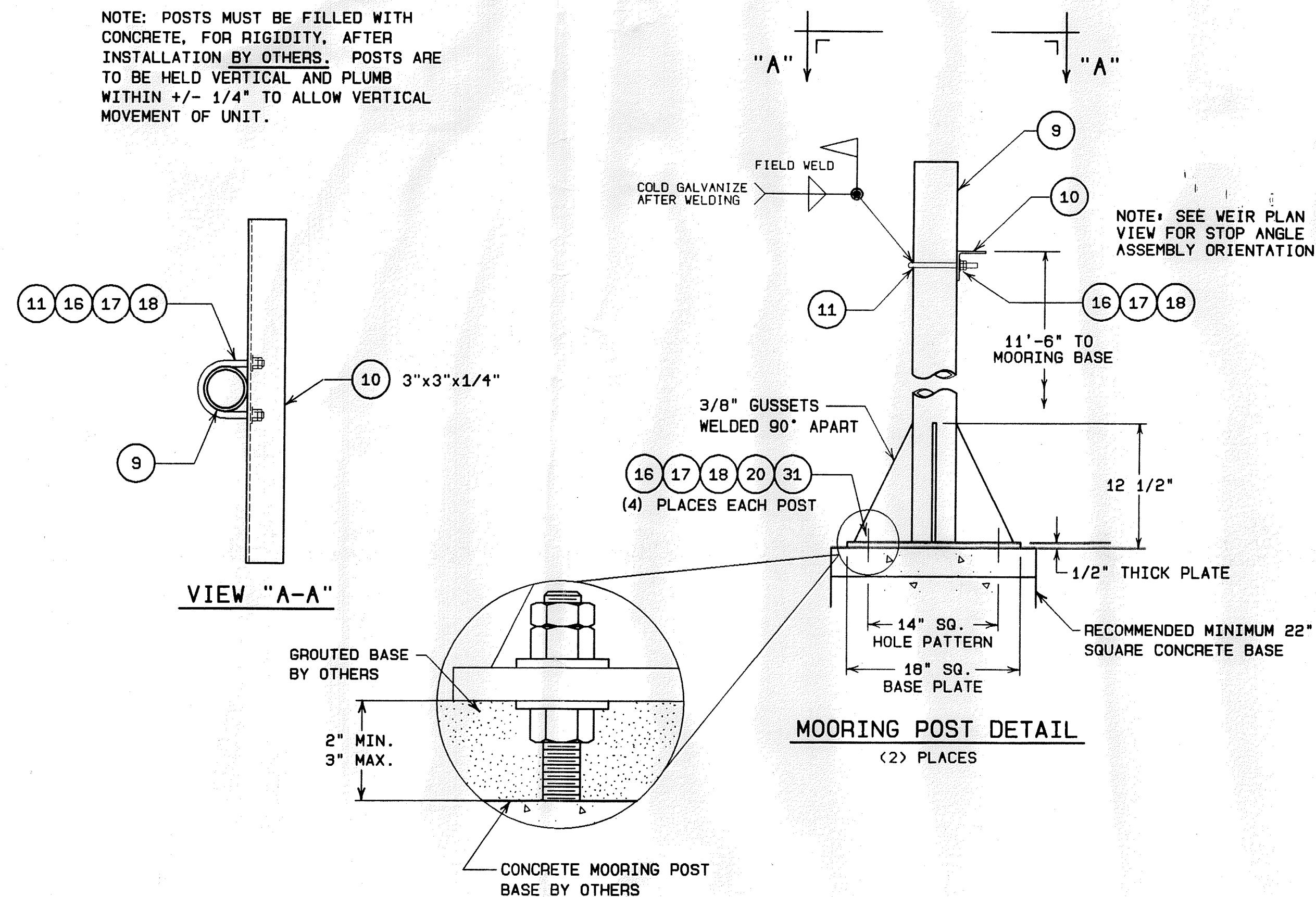


NOTE: FLOATING WEIR ASSEMBLY MAY BE SHIPPED AS TWO MAJOR COMPONENTS: (FIELD ASS'Y. BY OTHERS)

- 1) FRP. FLOAT ASSEMBLY WT. = 302 LBS.
 - 2) 304 STN. STL. WEIR ASSEMBLY WT. = 250 LBS.
- FLOATING WEIR ACCESSORIES: HOSE, MOORING FRAME, MOORING POSTS, ELBOW, VALVE AND HARDWARE SHALL BE SHIPPED LOOSE. RESERVE BUOYANCY IS 725 LBS.

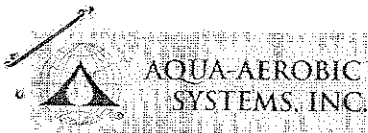


NOTE: POSTS MUST BE FILLED WITH CONCRETE, FOR RIGIDITY, AFTER INSTALLATION BY OTHERS. POSTS ARE TO BE HELD VERTICAL AND PLUMB WITHIN +/- 1/4" TO ALLOW VERTICAL MOVEMENT OF UNIT.



NOTE: REFER TO SHEET 1 OF THIS DRAWING FOR PART NUMBERS AND QUANTITIES.

JOB NAME: PEASE DEVELOPMENT AUTHORITY				DO NOT SCALE DRAWING		AQUA-AEROBIC SYSTEMS, INC.	
DRN BY: GML		DATE: 4/26/95		NAME:		6' x 4' / 4" FLOATING WEIR INSTALLATION	
CKD BY: [Signature]		ACT MT:		SCALE:		HP/SIZE:	
PATH: F:\DATA\SBR\JOB\104846		CAD NO.: 94846087		UNLESS OTHERWISE SPECIFIED		TYPE:	
REF: ECO		DATE		BY		REVISION	
				FRACTIONAL DIMENSIONS ± 1/16		SHEET 2 OF 2	
				ALL TWO PLACE DECIMALS ± .010		DWG. NO.: 94846007	
				ALL THREE PLACE DECIMALS ± .005			
				ALL ANGLES ± 1/2°			



Packing Slip

P/S #

103

Customer PO Number
14000098

Ship Date

70022	1048461	FEASE INTL TRADEPORT NH	Page 1
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Include Standard O&M Manuals

Job Number	Item	Part Number	Description	Quantity	Unit	Notes
1		910484619000	PARTS SBR ONE (1) BASIN DECANTER &	1.00	EA	See Detail Below
70022-1	0	910484619000	PARTS SBR ONE (1) BASIN DECANTER &	1.00	EA	See Detail Below
	✓40	2966974-2	VALVE ASSY, PLUG 12" 601-NO TO SA1	2.00	EA	2
	✓50	2963762-30	PORTABLE ELEC WINCH ASSY, 1.5 HP,	1.00	EA	1
	✓60	2612929	CORDSET, 10P, SINGLE FEMALE, 6' CC	2.00	EA	2
70022-1	1	910484619001	10'X9'1/8" DISCHARGE DECANTER REWC	1.00	EA	See Detail Below
	✓10	2910187-25	MOORING POST WELDMENT, 4" S40 X	1.00	EA	1 Direct
	✓20	2910499-08	DWTNG SUP 4"S10X11'6"304 74#B	2.00	EA	2 Direct
	✓30	2910200-25	DCNTR PIPE SUP 4"x8'-6" 304S B	1.00	EA	1 Direct
	✓40	2910202	PIPE SUPPORT SLEEVE	1.00	EA	1
	✓50	2903200	SADDLE, PIPE, 16-18"	1.00	EA	1
	✓60	2603879	HHCS, 3/4-10 X 5"	1.00	EA	1
	✓70	2602577	HHCS, 3/4-10 X 2.75"	1.00	EA	1
	✓80	2600496	NUT, HEX, FULL, 3/4-10	2.00	EA	2
	✓90	2602579	NUT, HEX, JAM, 3/4-10	2.00	EA	2
	✓100	2602580	WASHER, FLAT, 3/4" X 1 7/8"	4.00	EA	4
	✓110	2963000	KIT, ADHV ANCR, CRTG, 1/2", WEJ-IT	4.00	EA	4
	✓120	2600517	NUT, HEX, FULL, 1/2-13	40.00	EA	40
	✓130	2600234	NUT, HEX, JAM, 1/2-13	40.00	EA	40
	✓140	2600426	WASHER, FLAT, 1/2" X 1 1/4"	68.00	EA	68
	✓150	2507977	ANGLE, DEWATERING SUPPORT	2.00	EA	2 Direct
	✓160	2507915	ANGLE, BOTTOM STABILIZING	1.00	EA	1 Direct
	✓170	2519487-34-SX0	TOP SUPT ANGLE, MRG POST, 72" LG	2.00	EA	2 Direct
	✓180	2509120	PLATE, MOUNTING, DEWATERING ANC	1.00	EA	1

Job Number	Item	Part Number	Description	Quantity	Unit	Qty Shipped
	✓ 190	2509135	BRACKET, SUPPORT, MOVING POST	1.00	EA	<u>1</u>
	✓ 200	2509135	BRACKET, TOP SUPPORT, WALL	2.00	EA	<u>2</u>
	✓ 210	2600348	HHCS, 1/2-13 X 2"	6.00	EA	<u>6</u>
	✓ 220	2605934	U-BOLT, 4" PIPE, 1/2-13 X 7 3/4"	7.00	EA	<u>7</u>
	✓ 230	2508794	ANCR ROD, 1/2-13 X 19.00" 304S,	20.00	EA	<u>20</u>
	✓ 240	2603544	ADHESIVE CARTRIDGE, 1/2", WEJ-IT	20.00	EA	<u>20</u>
70022-1	2	910484619002	50 TUBE RET. DIFFUSER RE-WORK, T-W.	4.00	EA	See Detail Below
	✓ 10	2911142-10	VERT SUPT BM 25'1" 304S #508 D	4.00	EA	<u>4 Direct</u>
	✓ 30	2910430	ADJ BRKT WLDMT 304S 6# B	4.00	EA	<u>4</u>
	✓ 50	2506781	BRACE ANGLE 304S 30# A	8.00	EA	<u>8 Direct</u>
	✓ 60	2603536	VALVE, BFLY, 3", WAFER, LVR	4.00	EA	<u>4</u>
	✓ 70	2606006-18	HOSE 3" X 17'0" LG	4.00	EA	<u>4</u>
	✓ 80	2606949	FLANGE, THD, 150#, 3"	4.00	EA	<u>4</u>
	✓ 90	2600348	HHCS, 1/2-13 X 2"	64.00	EA	<u>64</u>
	✓ 100	2600517	NUT, HEX, FULL, 1/2-13	64.00	EA	<u>64</u>
	✓ 110	2600234	NUT, HEX, JAM, 1/2-13	64.00	EA	<u>64</u>
	✓ 120	2600426	WASHER, FLAT, 1/2" X 1 1/4"	128.00	EA	<u>128</u>
	✓ 130	2911326-00	INTRM SUPT 16-18" 304S 10# C	32.00	EA	<u>32</u>
	✓ 140	2606773	NIPPLE, 3" S40 CLOSE	4.00	EA	<u>4</u>
	✓ 150	2606916	ELBOW, 90DEG, S40, NPT, 3"	4.00	EA	<u>4</u>
	✓ 160	2603742	COUPLING, 3" #300F-N	4.00	EA	<u>4</u>
	✓ 170	2508794	ANCR ROD, 1/2-13 X 19.00" 304S,	8.00	EA	<u>8</u>
	✓ 180	2603544	ADHESIVE CARTRIDGE, 1/2", WEJ-IT	8.00	EA	<u>8</u>
	✓ 190	2963000	KIT, ADHV ANCR, CRTG, 1/2", WEJ-IT	24.00	EA	<u>24</u>
	✓ 200	2961245	AIR COLM ASSY ELEC WINCH SS C	4.00	EA	<u>4 Direct</u>
	✓ 210	2961338	LIFT MECH ELEC 304S D	4.00	EA	<u>4 Direct</u>
70022-1	3	910484619003	50 TUBE RET. DIFFUSER RE-WORK, L-W.	5.00	EA	See Detail Below
	✓ 10	2911142-10	VERT SUPT BM 25'1" 304S #508 D	5.00	EA	<u>5 DIRECT</u>
	✓ 30	2910430	ADJ BRKT WLDMT 304S 6# B	5.00	EA	<u>5</u>
	✓ 50	2506781	BRACE ANGLE 304S 30# A	10.00	EA	<u>Direct</u>

Pre-Bid 31-14 Meeting
 WWTF SBR1 Aeration Improvements
 December 20, 2013

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