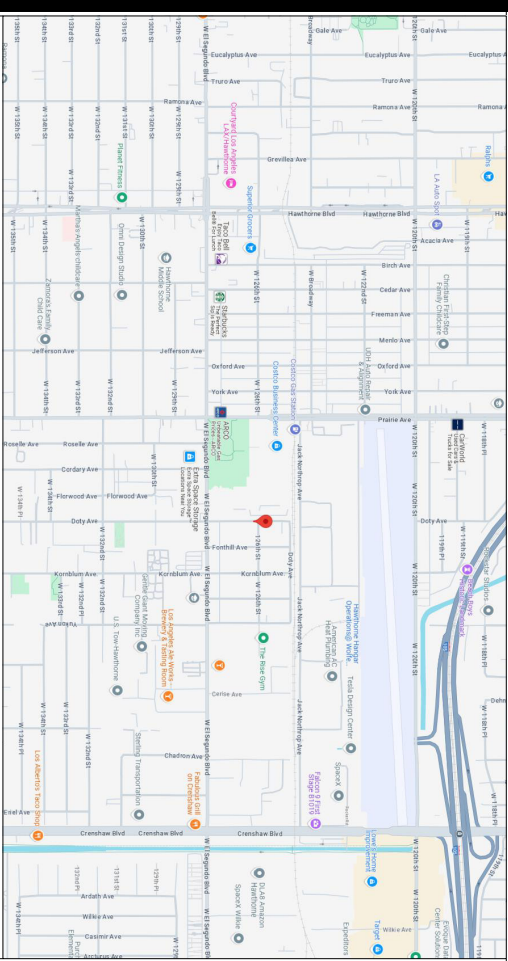


HAWTHORNE CITY YARD

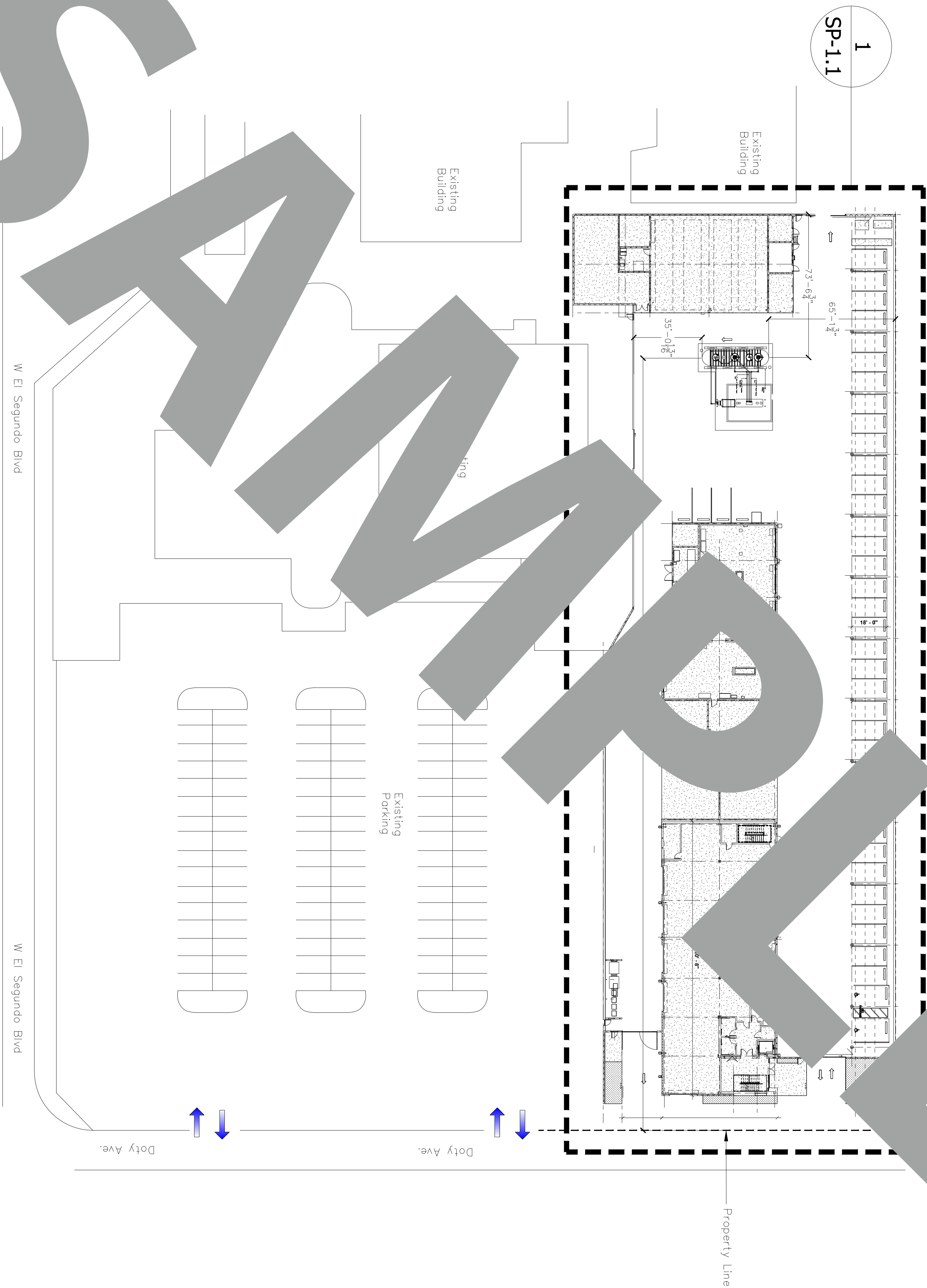
12613 Doty Ave. Hawthorne, CA 90250

UST Installation



VICINITY MAP

LEGEND	
1	SP-1 Site Plan Layout
2	SP-1.1 Site Plan Layout
3	Scope of Work
4	SP-2 Piping Layout
5	Ports List
6	A-1 Piping Layout & Tank Details
7	A-2 Tank Details
8	A-3 Tank Details
9	A-4 Tank Details
10	A-5 Zone Details
11	S-1 Concrete Details
12	E-1 Electrical Details
13	E-2 Electrical Details



Tank Specialists of California
(A Division of Tank Specialties, Inc.)
27570 Commerce Center Drive, Suite 129
Temecula, CA 92590
Toll Free # (1-888) 606 TANK (8265)
Fax (951) 676-0688
(License No. 745065 A, B-HAZ)

Hawthorne City Yard

12613 Doty Ave.
Hawthorne, CA 90250

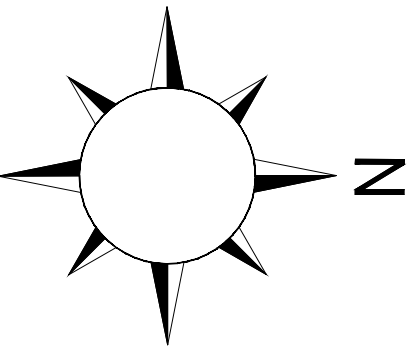
No.	Revision/Issue	Date

SP-1

Sheet Title:
Site Plan Layout

Project:	Sheet:
Date: 03/01/2025	SP-1
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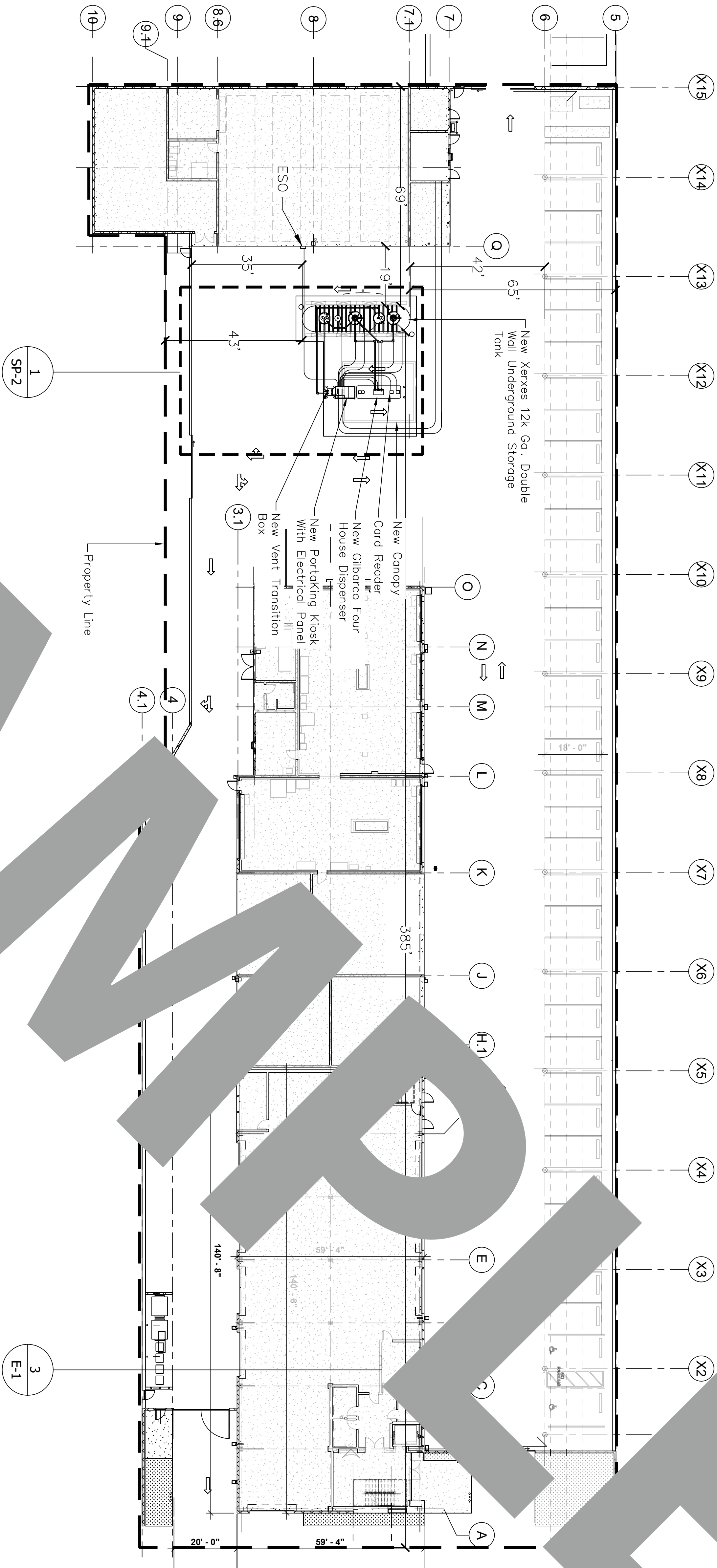
Scale
1/32" = 1'-0"



ALL PIPING SLOPES $\frac{1}{8}"$ PER FOOT BACK TO THE TANK.

WILL FOLLOW APPLICABLE CODES
2022 CBC-2022 CEC-2022 CFC





SITEPLAN DETAIL

SCALE
1"=20'-0"

1



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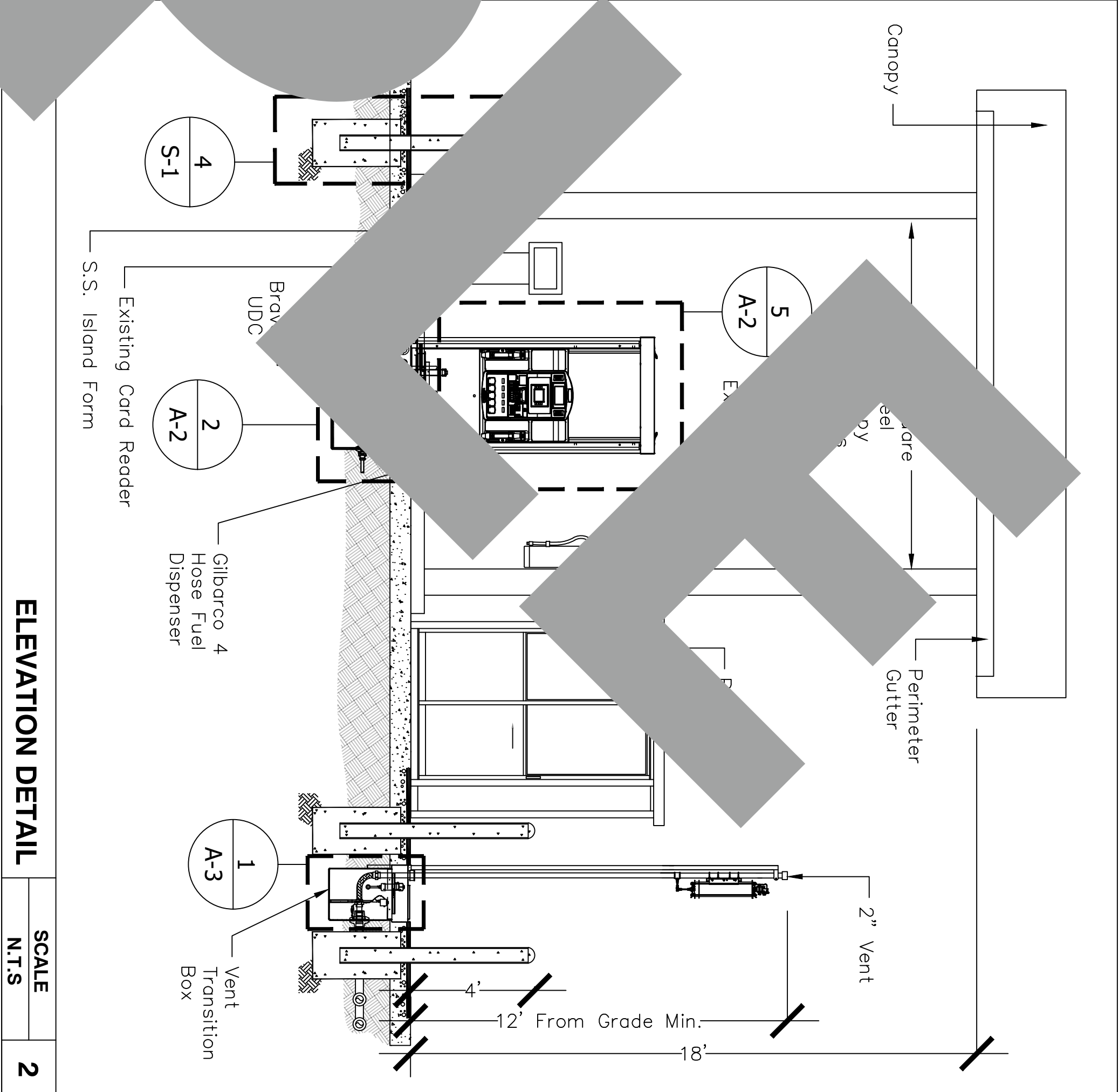
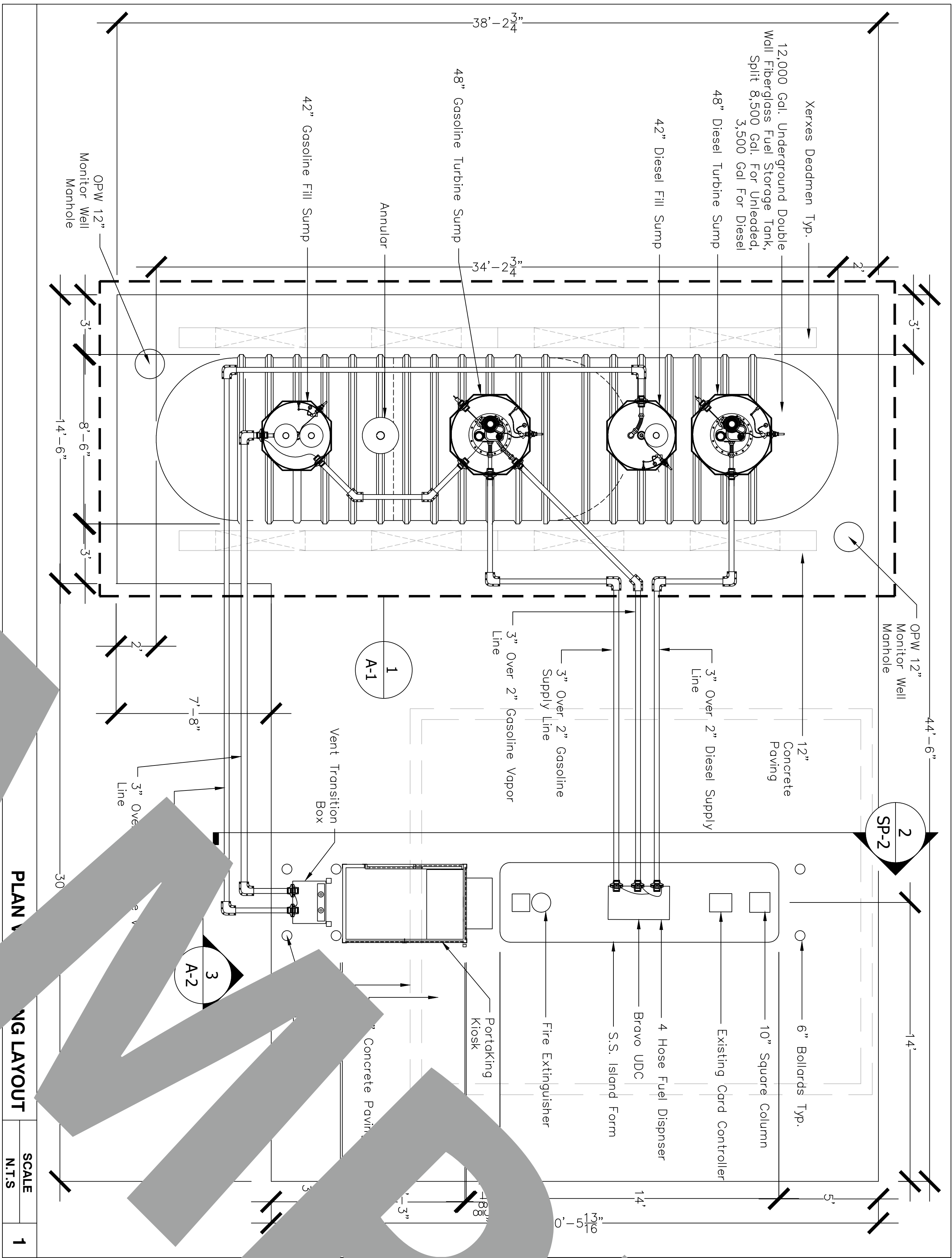
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SP-1.1

Sheet Title:
Site Plan Layout

Project:	Sheet:
Date: 03/01/2025	SP-1.1
Scale: 1"=20'-0"	

Scale
1"=20'-0"



Project

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Date

.....

Scale

AS NOTED

Sheet

SP-2

Sheet Title

PLAN VIEW
PIPING LAYOUT

SP-2

No.	Revision/Issue	Date

Hawthorne City Yard

12613 Doty Ave.
Hawthorne, CA 90250

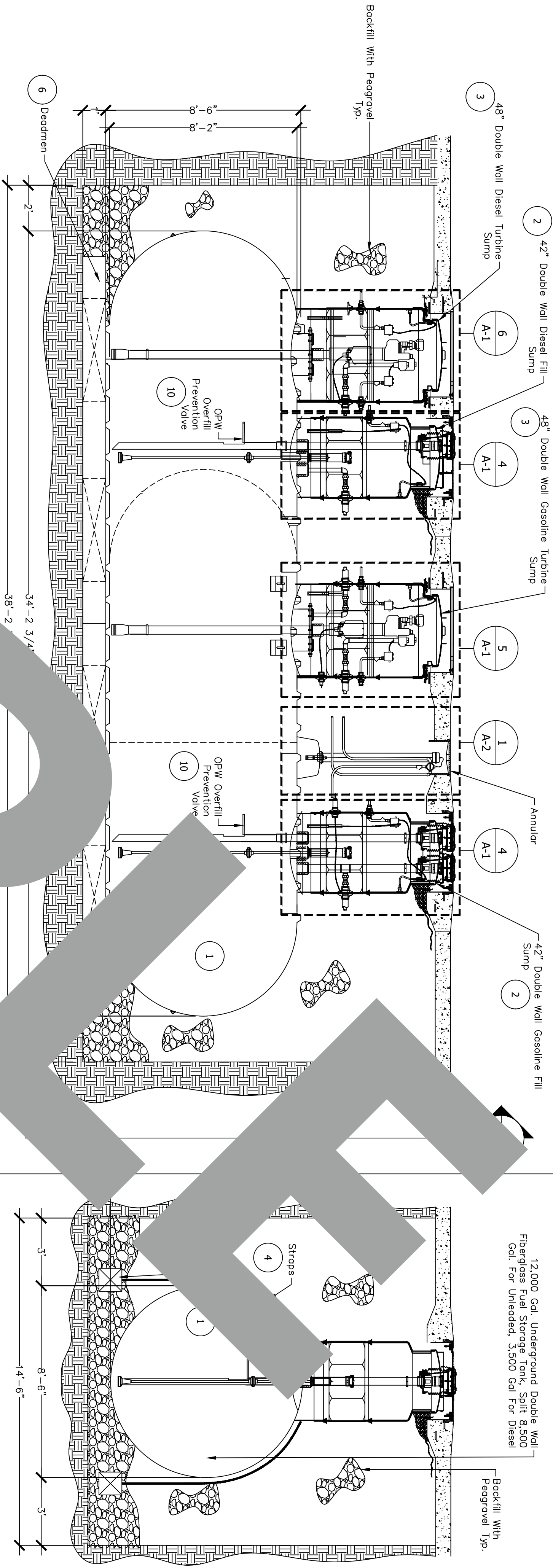
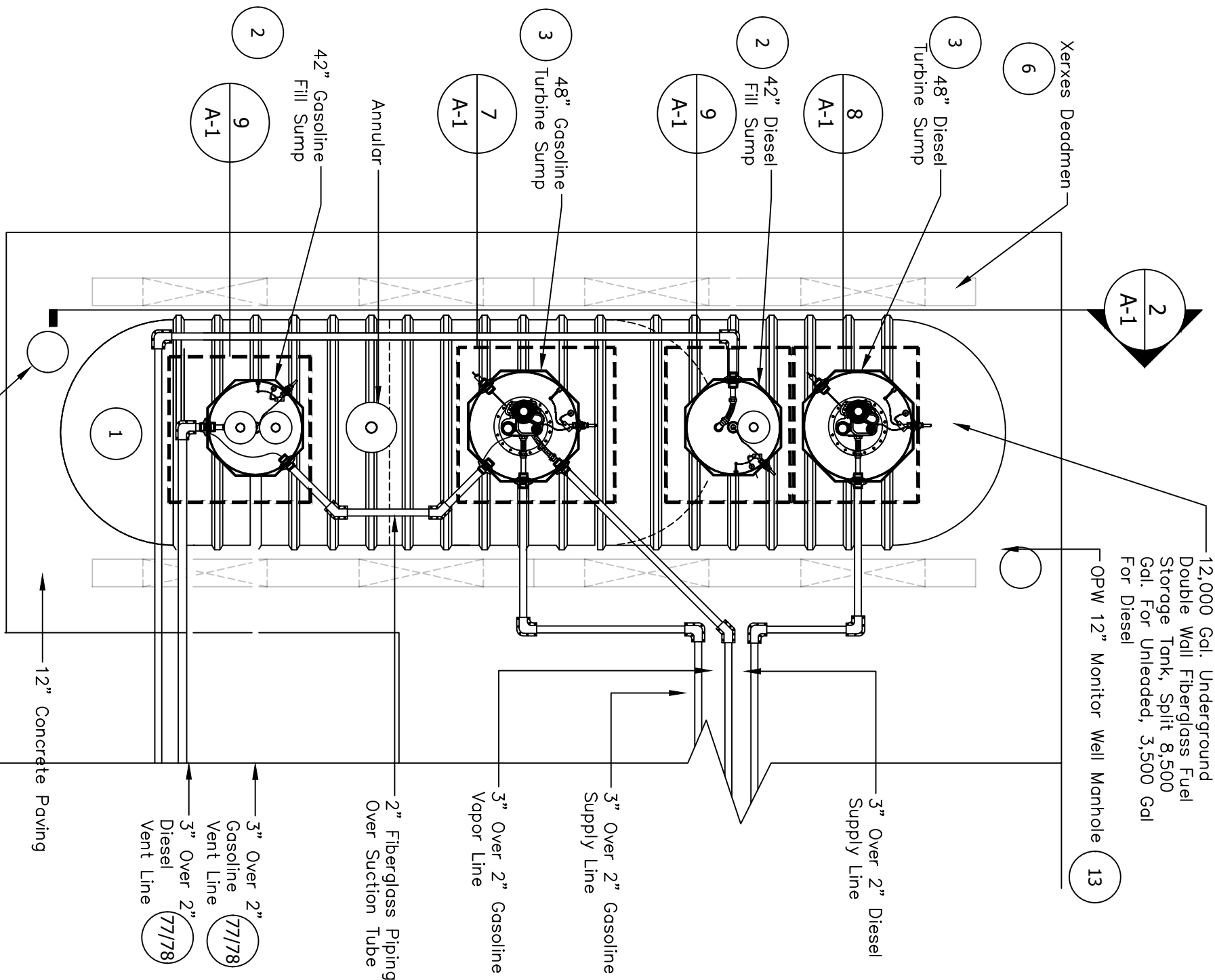
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PARTS LIST			Description		
#	QTY	Part#			
1	1	12000-8,000x4,000-8'DW	Xerxes 12,000 8,000 / 4,000 Gallon Fiberglass Double Wall Underground Storage Tank Double Wall		
2	2	42x60 SUMP PKG	Double Bulkhead Multi Compart Tank		
3	2	48x60 SUMP PKG	Unleaded 1 12,000 8k/4k 8" double wall double bulkhead multi-compart tank 1 12,000 8k/4k-8" DW-CT Brine-Interstice 2 DWXXCC DW 48"x6"H & 2 DWXXCC 42" Containment Collar 2 22" Manway-DW 6-4" Manway Cover Fittings half cplg. 4 4" Tank Wall Fitting, Half Coupling DW Xerxes Double Wall Collar & Sump Package: 42" Diameter DW Collar With 42" x 48" DW DSump With Open Top 36" Access, Brine and FRP Bonding Kits Xerxes Double Wall Collar & Sump Package: 48" Diameter DW Round Containment Collar With 48" x 48" DW Sump With 36" Watertight Lid, Brine And FRP Bonding Kits Xerxes 8x4-8" Strnd Straps Set Xerxes Strop Channel For Double Wall Collar Xerxes 8x4-8" Turnbuckles-8		
4	1		OPW 6571 Series Package Kit Including: 6571evrb-164042rt1o52 evr multiport 42" dia 71jsk-44ma e85 evr jack screw ass. for cast iron base fills 61sdlp-ma e85 fuel swivel adapter low profile, bronze 613lt-7085-evr4" fill cap 61vsa-102-evr vapor swivel adapter, bronze 1711t-7085-evr 4" vapor cap 723v-2203 2" thread on 3" wc pres.8" wc voc vpn4x7 4" nipple 7" long for fill fsa-400-s short evr face seal adapter h12806m 4" nipple 5" long for vapor 6511-rb16 riser spacer 16" center to center mpw-33 sump shield for sumps lids up to 32.5" di		
5	2		OPW 6571 Series Package Kit Including: 6571evrb-164042rt1o52 evr multiport 42" dia 71jsk-44ma e85 evr jack screw ass. for cast iron base fills 61sdlp-ma e85 fuel swivel adapter low profile, bronze 613lt-7085-evr4" fill cap 61vsa-102-evr vapor swivel adapter, bronze 1711t-7085-evr 4" vapor cap 723v-2203 2" thread on 3" wc pres.8" wc voc vpn4x7 4" nipple 7" long for fill fsa-400-s short evr face seal adapter h12806m 4" nipple 5" long for vapor 6511-rb16 riser spacer 16" center to center mpw-33 sump shield for sumps lids up to 32.5" di		
6	1		OPW 6571 Series Package Kit Including: 6571evrb-164042rt1o52 evr multiport 42" dia 71jsk-44ma e85 evr jack screw ass. for cast iron base fills 61sdlp-ma e85 fuel swivel adapter low profile, bronze 613lt-7085-evr4" fill cap 61vsa-102-evr vapor swivel adapter, bronze 1711t-7085-evr 4" vapor cap 723v-2203 2" thread on 3" wc pres.8" wc voc vpn4x7 4" nipple 7" long for fill fsa-400-s short evr face seal adapter h12806m 4" nipple 5" long for vapor 6511-rb16 riser spacer 16" center to center mpw-33 sump shield for sumps lids up to 32.5" di		
7	1	PK2-42RTMP-33EB5	6571EVR-164042RT051 EVR Single Port 42" Dia 61JSK-44CB EVR Jack Screw Ass. For Cast Iron Base Fills 61 SAMP-102-EVR Fuel Swivel Adapter Low Profile, Bronze 6341T-7085 EVR 4" Fill Cap 23-0033 2" Vent Cap VPN4x7 4" Nipple 7" Long For Fill FSA-400-S Short EVR Face Seal Adapter MPWS-33 Sump Shield For Sumps Lids Up To 32.5" Dia COS223M Shroud Boot Cap To Isolate One FRP Cover Paint		
8	1		OPW Testable 4" Overfill Valve 2 Point 60" Upper 83" Lower		
9	1	PK3-42RTDIESEL-33	OPW 4x4x3x2 Extractor Valve W/O Cage Fibrelite 40" Fiber Reinforced Composite Manhole Gray-Includes Frame & Skirt		
10	2	71SO-40OCT	OPW 12" IDx19" Deep WT Manhole Labeled Observation Well		
11	2	233-4432	Fibrelite 40" Fiber Reinforced Composite Manhole Gray-Includes Frame & Skirt		
12	2	FL100GRA-Y-SK12	OPW 12" IDx19" Deep WT Manhole Labeled Observation Well		
13	3	104A-1800WT	61JSK-44CB EVR Jack Screw Ass. For Cast Iron Base Fills 61 SAMP-102-EVR Fuel Swivel Adapter Low Profile, Bronze 6341T-7085 EVR 4" Fill Cap 23-0033 2" Vent Cap VPN4x7 4" Nipple 7" Long For Fill FSA-400-S Short EVR Face Seal Adapter MPWS-33 Sump Shield For Sumps Lids Up To 32.5" Dia COS223M Shroud Boot Cap To Isolate One FRP Cover Paint		
14	1	FL7A	OPW 12" IDx19" Deep WT Manhole Labeled Observation Well		
15	1	B501-D-220/EO-EBS	Fibrelite Stainless Steel Lifting Handle		
16	1	RS-501	Bravo D.W Vapor Vent 2 Product FRP Containment Box For 3" Over 2" FRP Pipe.		
17	1	P150 UIR42 0410141-002	Bravo Vent Rock System Assembly for 2 or 3 vent risers		
18	1	P75UIR1@ 0410140-002	Red Jacket 1.5 HP STP Fixed Speed Variable Length Sump Pump Riser		
19	2	880-041-5	Red Jacket 3/4 HP STP Fixed Speed Variable Length Sub Pump Riser		
20	4	FF20X18MSXEZM	Red Jacket Control Box w/Relay		
21	2	691BSS-0800 1V	2" diameter flexible connector, male swivel by EZ Fit male NPT, 18" OAL		
22	10	012030-626-0	Morrison SS 2" Locking Ball Valve Full Port E85Bio Smith FRP 3" AB248ISump Penetration/ Termination Fitting		
23	10	60210101	Smith PSX 20-6p2. Adhesive		
24	10	012040-238-3	Smith FRP 4:x3" Concentric Reducer use With 3" AB248IFitting Above		
25	10	F-32S-T-F	Bravo 1 Pocks of FRP Flat Wall Full Body Fitting w/ Testers For 3"x2' FRP Pipe Use 2each ep10		
26	20	EP-100	Bravo Epoxy Kit		
27	9	F-07RS-ODF	Bravo 3/4" FRP Rigid DW Electrical Sump Penetration Fitting		
28	10	PF-RA 3,6x2,4 ASS	Diversified 3"x2" Reducer With		
29	1	EN-700NA1-02	Gilbarco S Series Two Product Dispenser Hybrid card Reducer		
30	1		Junction Box		
31	2		Totalizer-Electromechanical Hose No Venturi		
32	2	532336640-00100	Continental 1' Premier Coaxial Hose With		
33	2	532366641-08031	Continental 8' Premier Coaxial Hose With		
34	2	VST-EVR-NBBK-2	VST Coaxial EVR G2 Nozzle Bl		
35	2	VSTA-EVR-SBKA	VST Redtouched Able Valve		
36	2	532331124-20869	Continital 3/4"x8" Green Hose		
37	2	532331124-01269	Continental 3/4"x12' Green Hose		
38	2	159503-03	Husky 14XS Automatic Diesel Nozzle Green Pressure Activated		
39	2	1808-3	Husky Green Splash Guard		
40	2	0350	Husky 3/4" Hose Swivel		
41	2	3360	Husky 3/4" Hose Swivel		
42	1	6013SS-SFR6W4L14	OPW S.S. Island SF 6" Radius 4 wx14Lx13W		
43	1	B9380-D36	Bravo 36" Encore DW Grine Dispenser Sump		
44	2	BK-8000	Bravo Product Shear Valve Bracket		
45	1	BK-B2	Bravo Vapor Shear Valve Bracket		
46	1	FRT	Bravo Factory Freight Need 1 Per Sump		
47	2	10BHMP-5830	OPW Double Poppet Shear Valve-Male		

48	1	60VSP-1001	OPW 1"x1 1/2" Poppeted Vapor Shear Valve
49	2	60210101	Smith PSX 20-6p2. Adhesive
50	2	002990-004-0	Smith Filler For PSX 20 Adhesive
51	2	012020-231-4	Smith 2 X1.5" Primary Bushing
52	2	FF15X18HMXEZ	1 1/2" diameter flexible connector, hex male by EZ Fit male, 18" OAL
53	1	860091-302-1SD	Weeder-Root TLS 450 Pluse Console
54	1	330020-619	Weeder-Root Universal Sensor Probe Interface Module for Up To 16 Sensors
55	1	330020-620	Weeder-Root Universal Input/Output Interface Module
56	1	0330020-846	Weeder-Root USM/ATM Module Group For TLS450 For Secondary Containment Vacuum Monitoring SCVS Installation only
57	1	332972-029	Weeder-Root Software enhanced feature secondary containment vacuum monitoring SCVS. Typically needed in CA uses 1 spot on the 330020-619 Above
58	2	839080-001	Weeder Root Digital DP/LD Line Leak Detector
59	1	330020-613	Weeder-Root RS-232 Interface Module
60	1	ZZ483850013	Weeder Root TLS 450 3 1/4" x 2" Paper
61	1	FRT	Weeder Root Factory
62	2	0846397-107	Weeder Root SS 8" HGP Mag Plus Magneto
63	1	886100-000	Weeder Root Phase Two Water Mag Plus Gas Probe
64	1	846400-001	Installation Kit 5' Cable
65	6	794380-208	Weeder Root Mag Plus Diesel Installation Kit 5' Cable
66	1	794380-303	Cable
67	1	790091-001	Weeder Root Sump Set
68	1	790095-001	Weeder Root Dual Port
69	1	U-MS-203	Tanks W/Cap E85
70	2	305XP41100AKEVR	Weeder Root Overfill Alarm
71	1	330020-480	Weeder Root Overfill Alarm
72	1	330020-485	Weeder Root Root 200
73	1	332310-003	Weeder Root 200
74	6	794380-304	Weeder Root 100 Vapor
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77	300	011020-069-1	Weeder Root Single Port
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81	1	FS120Kit	Weeder Root Single Port
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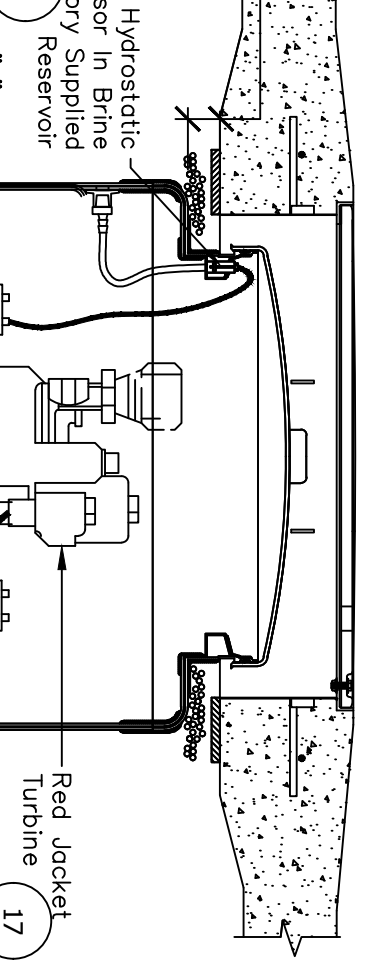
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PIPING LAYOUT DETAIL

SCALE

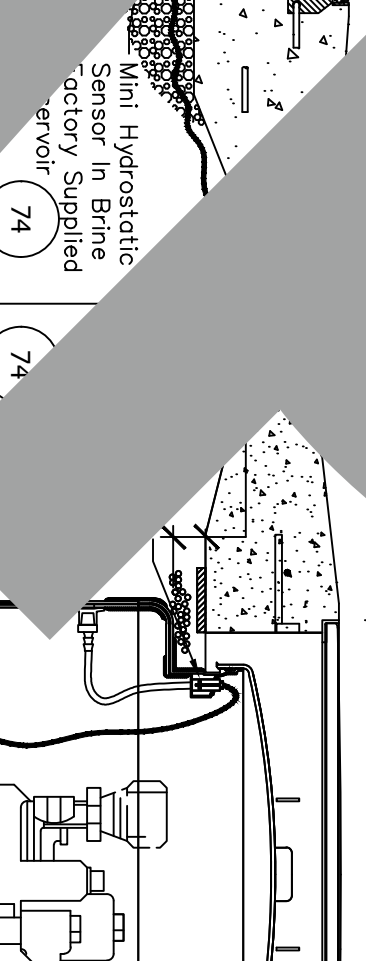
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DIESEL TURBINE SUMP DETAIL

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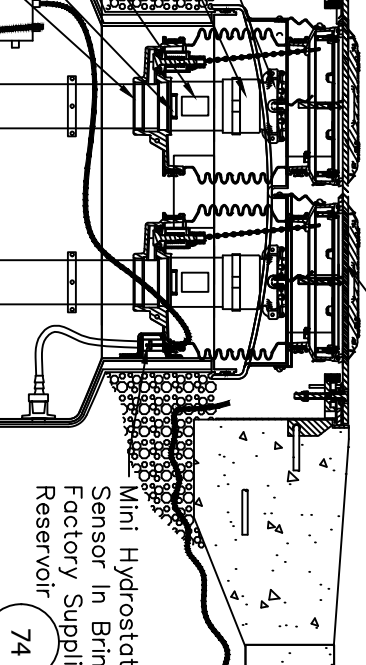
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GASOLINE TURBINE SUMP DETAIL

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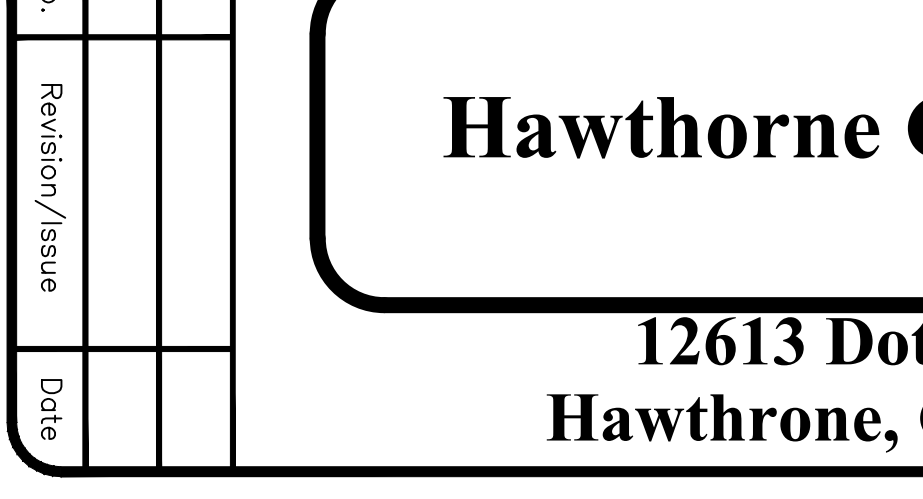
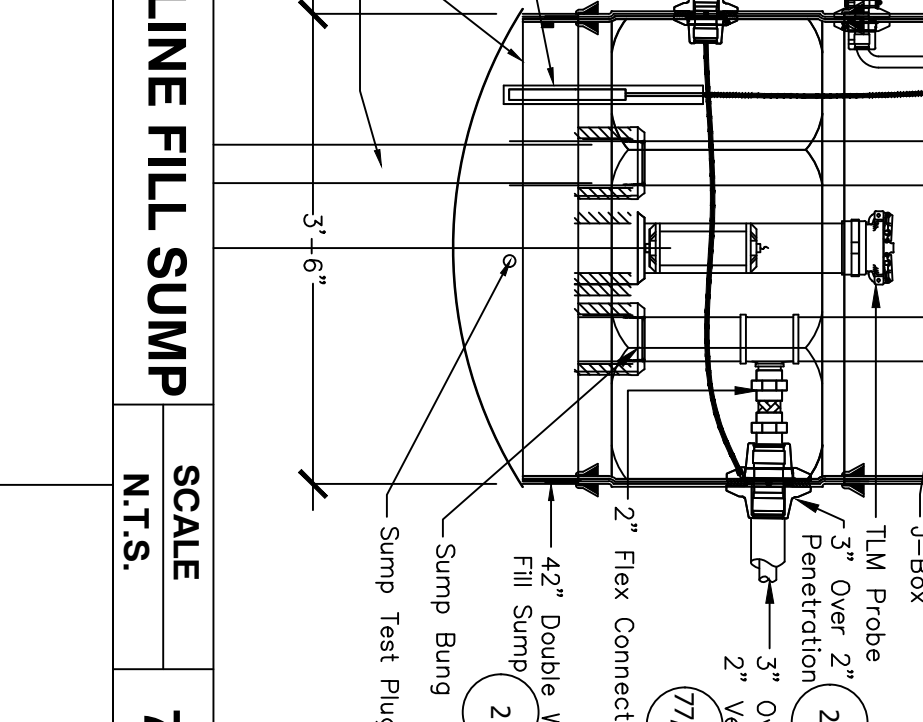
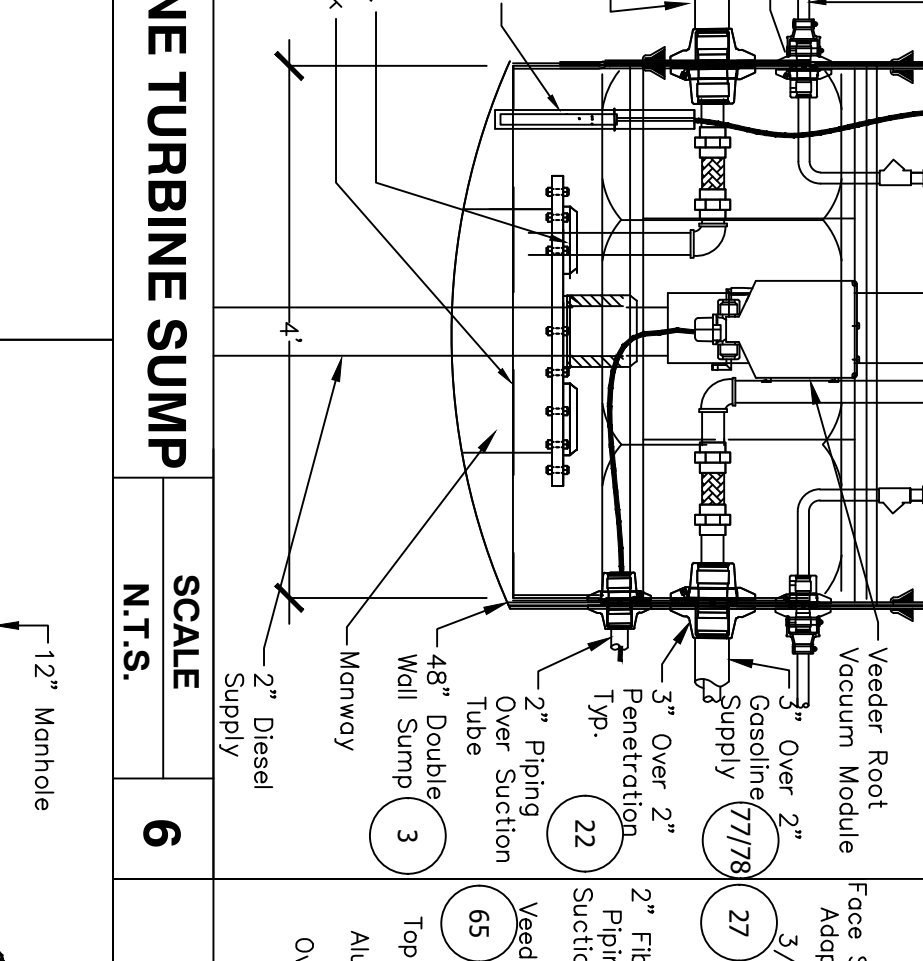
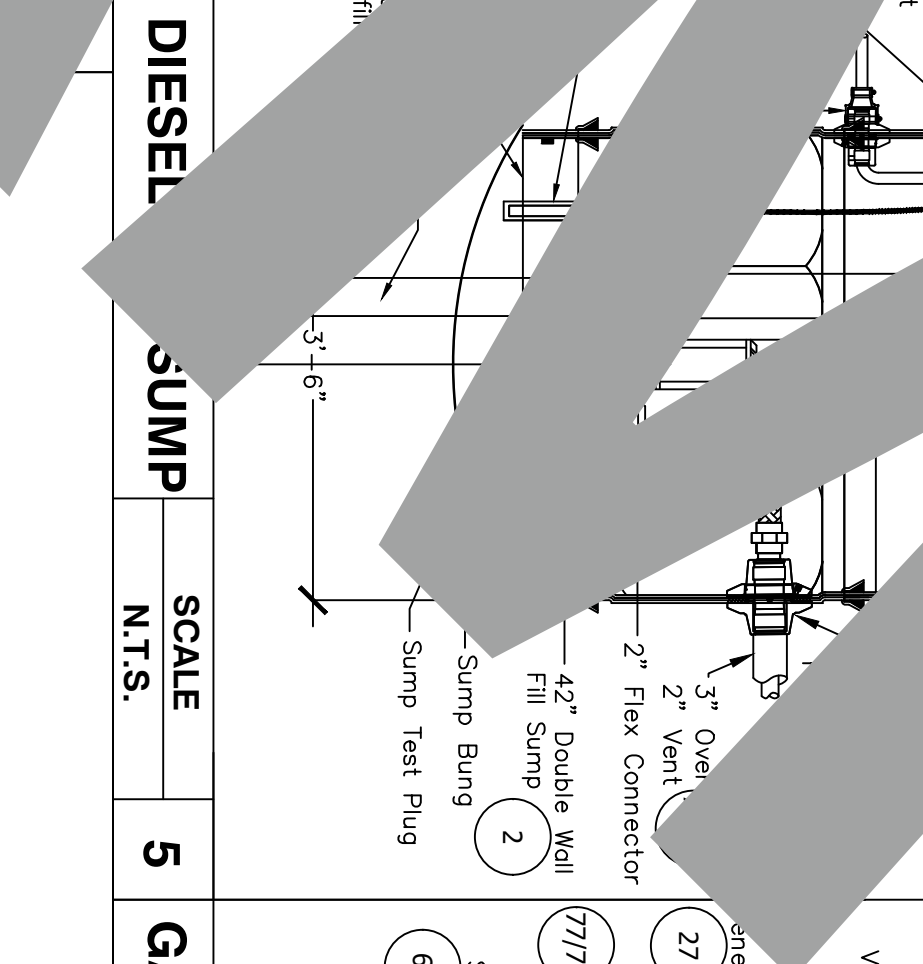
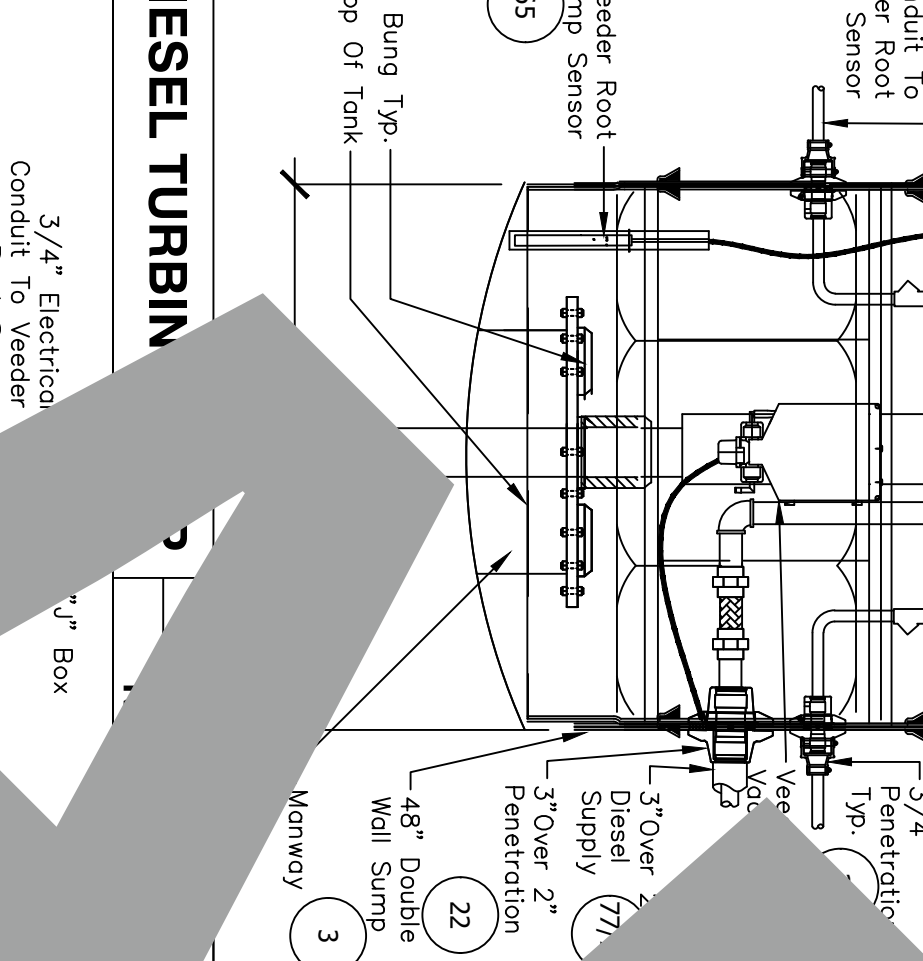
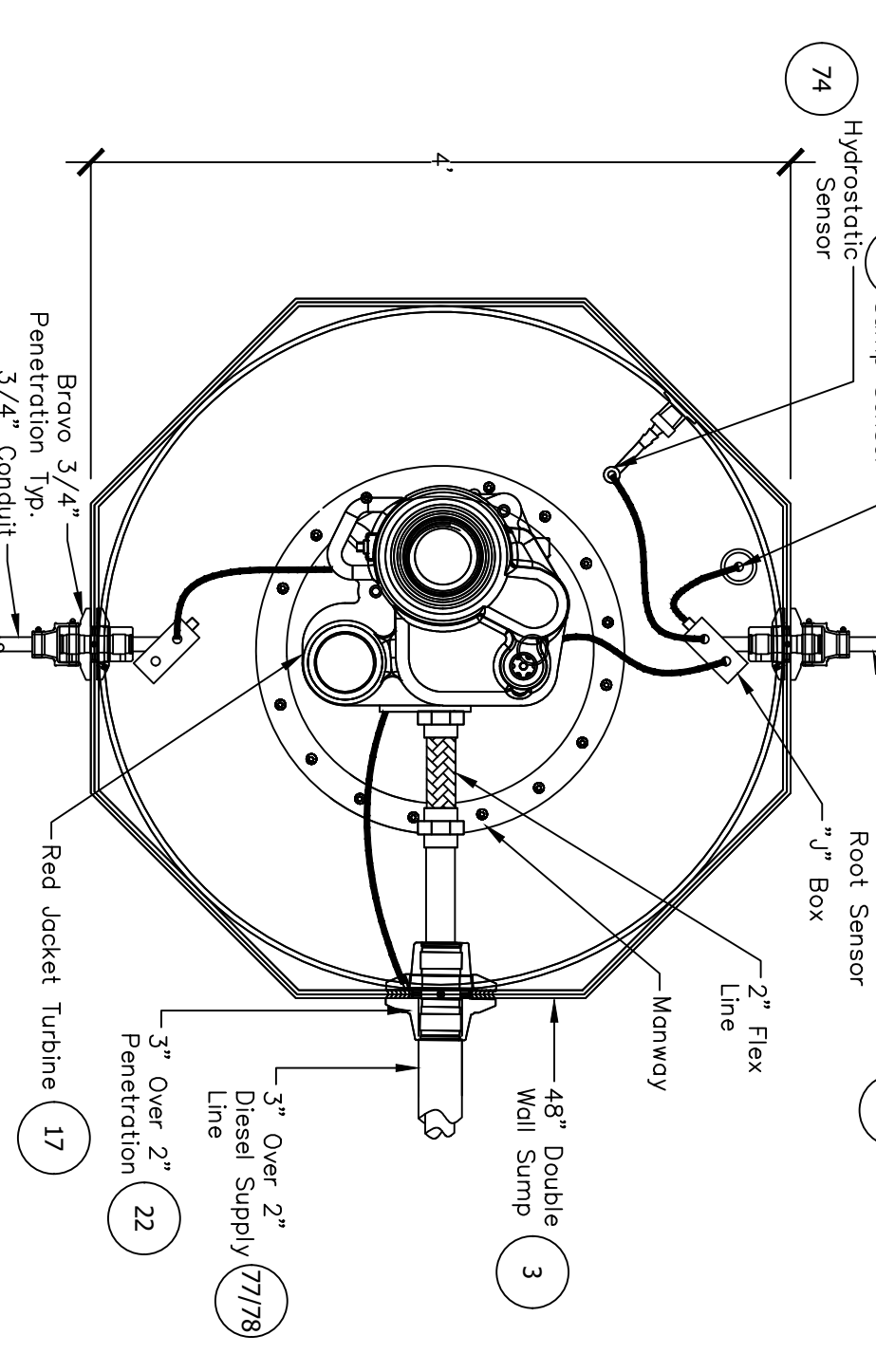
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DIESEL FILL SUMP DETAIL

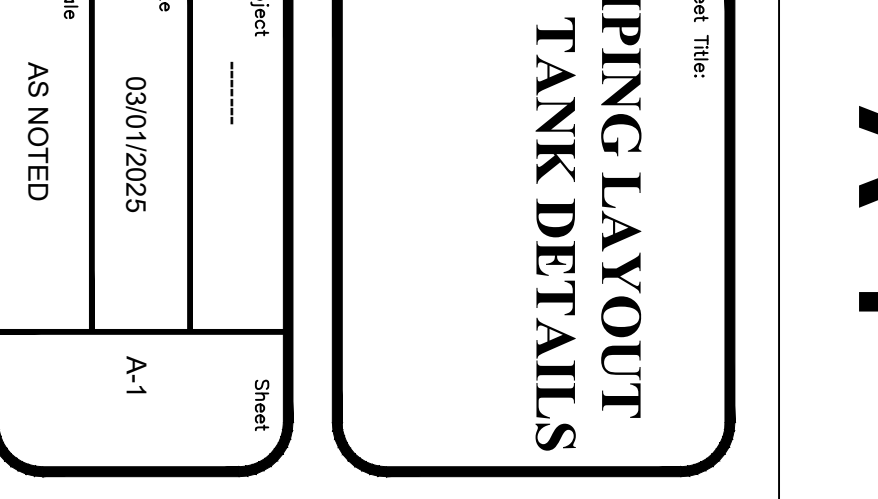
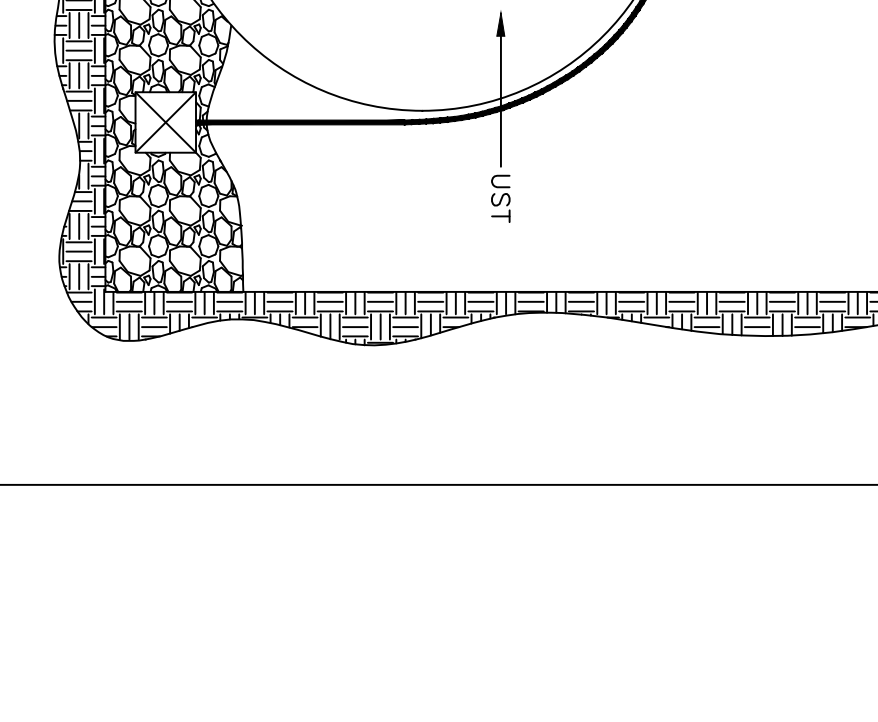
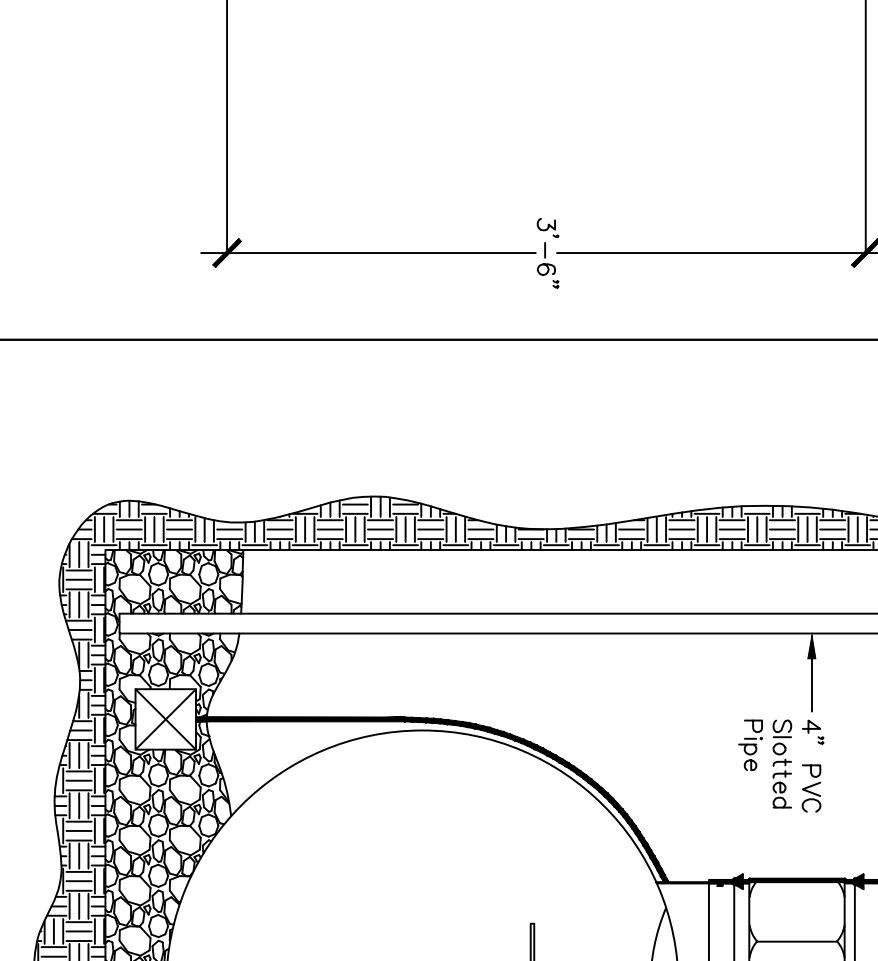
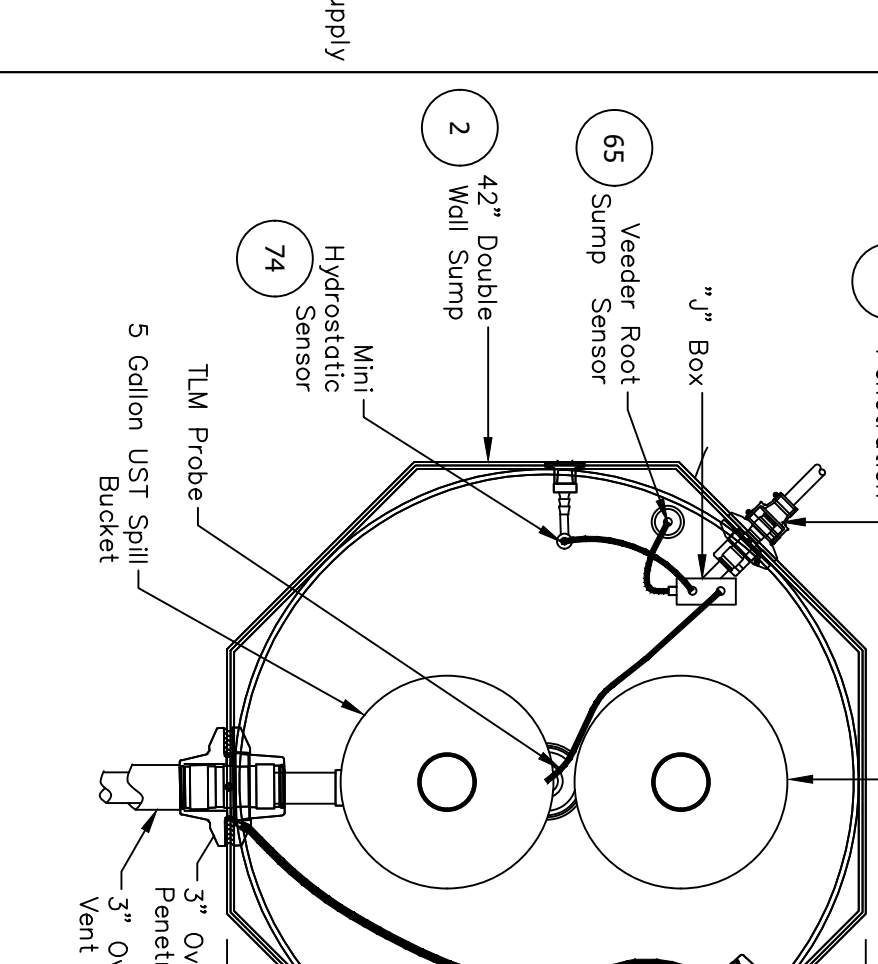
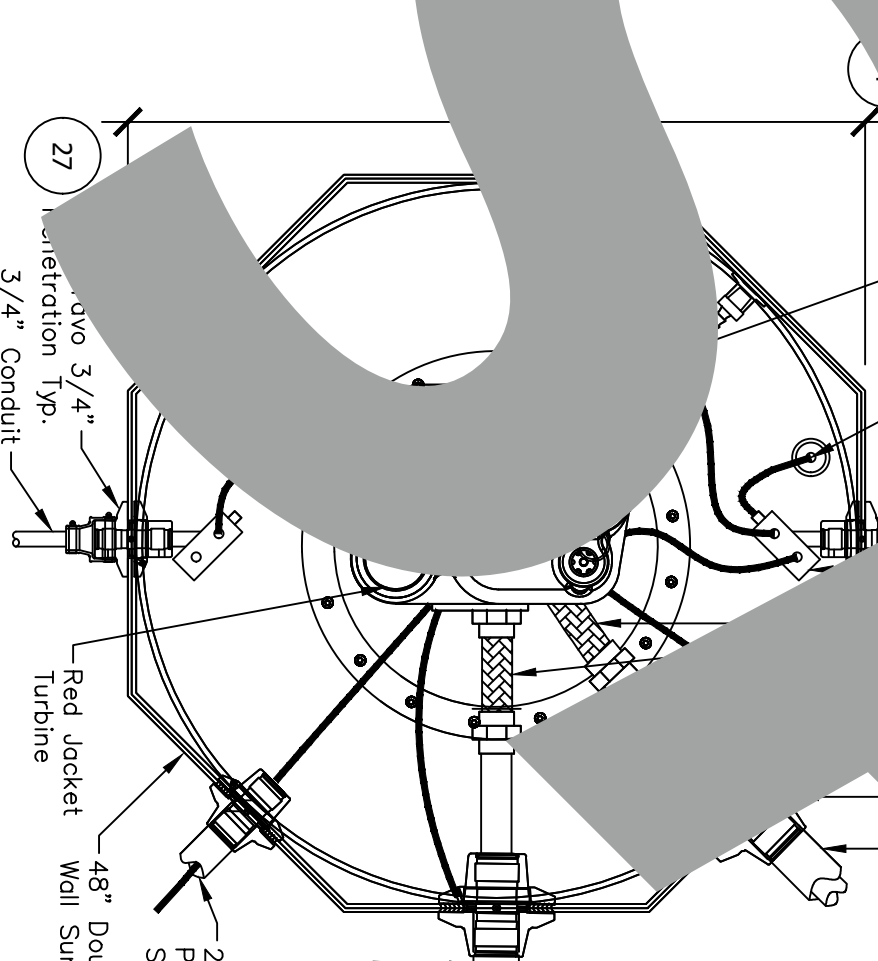
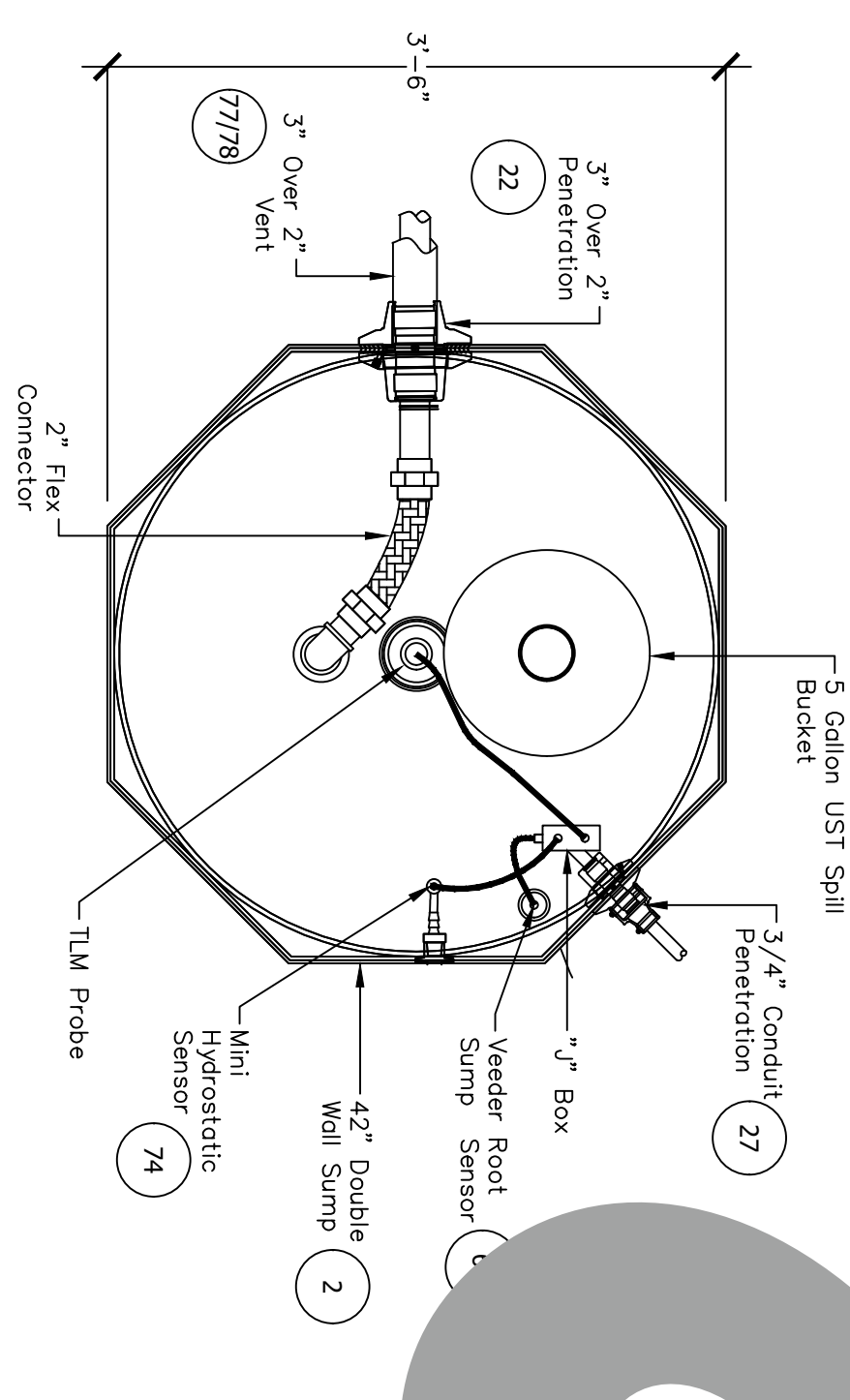
SCALE

N.T.S.



MONITOR WELL TYP. 2 DETAIL

SCALE N.T.S.



MONITOR WELL TYP. 2 DETAIL

SCALE N.T.S.



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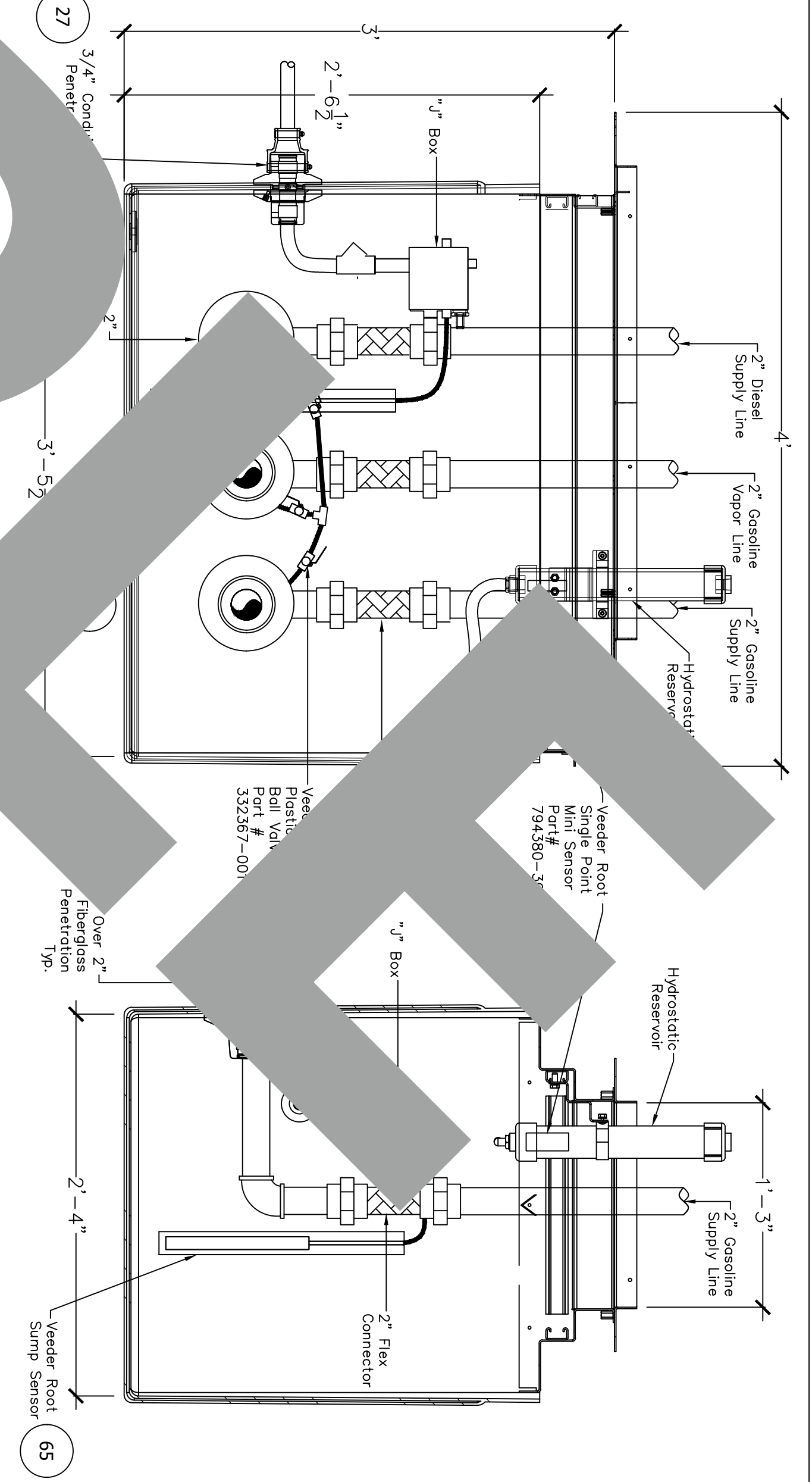
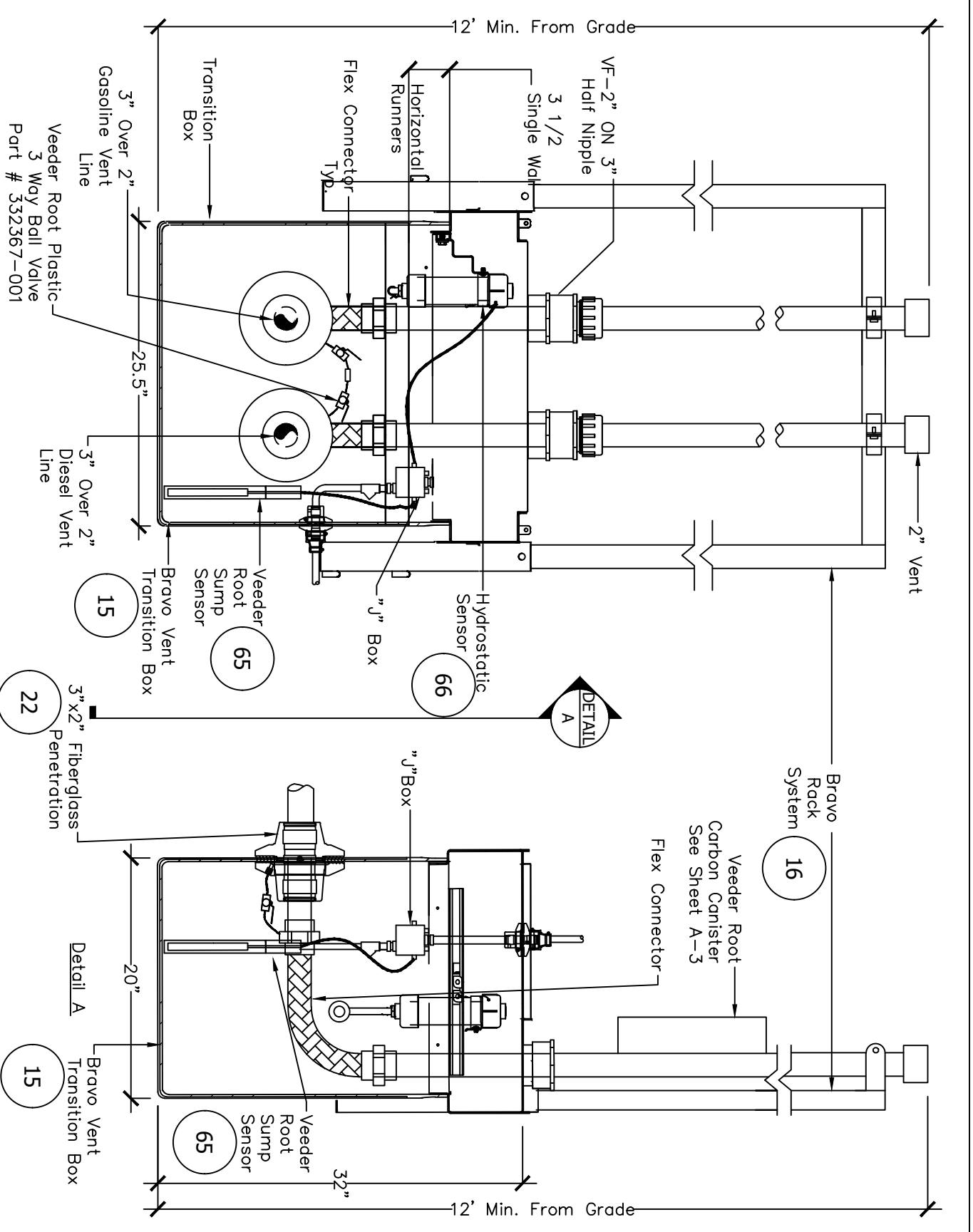
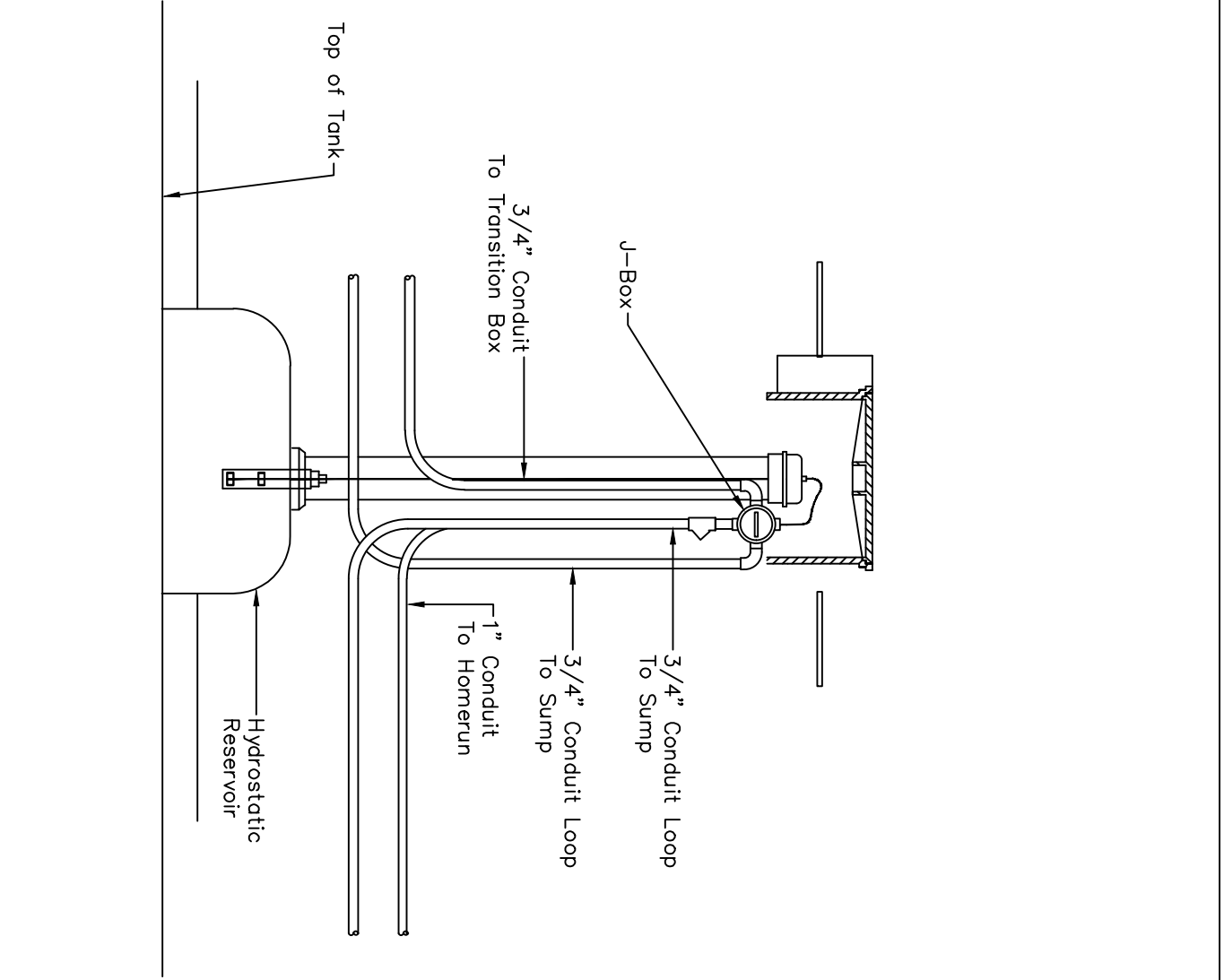
Hawthorne City Yard

12613 Doty Ave.
Hawthorne, CA 90250

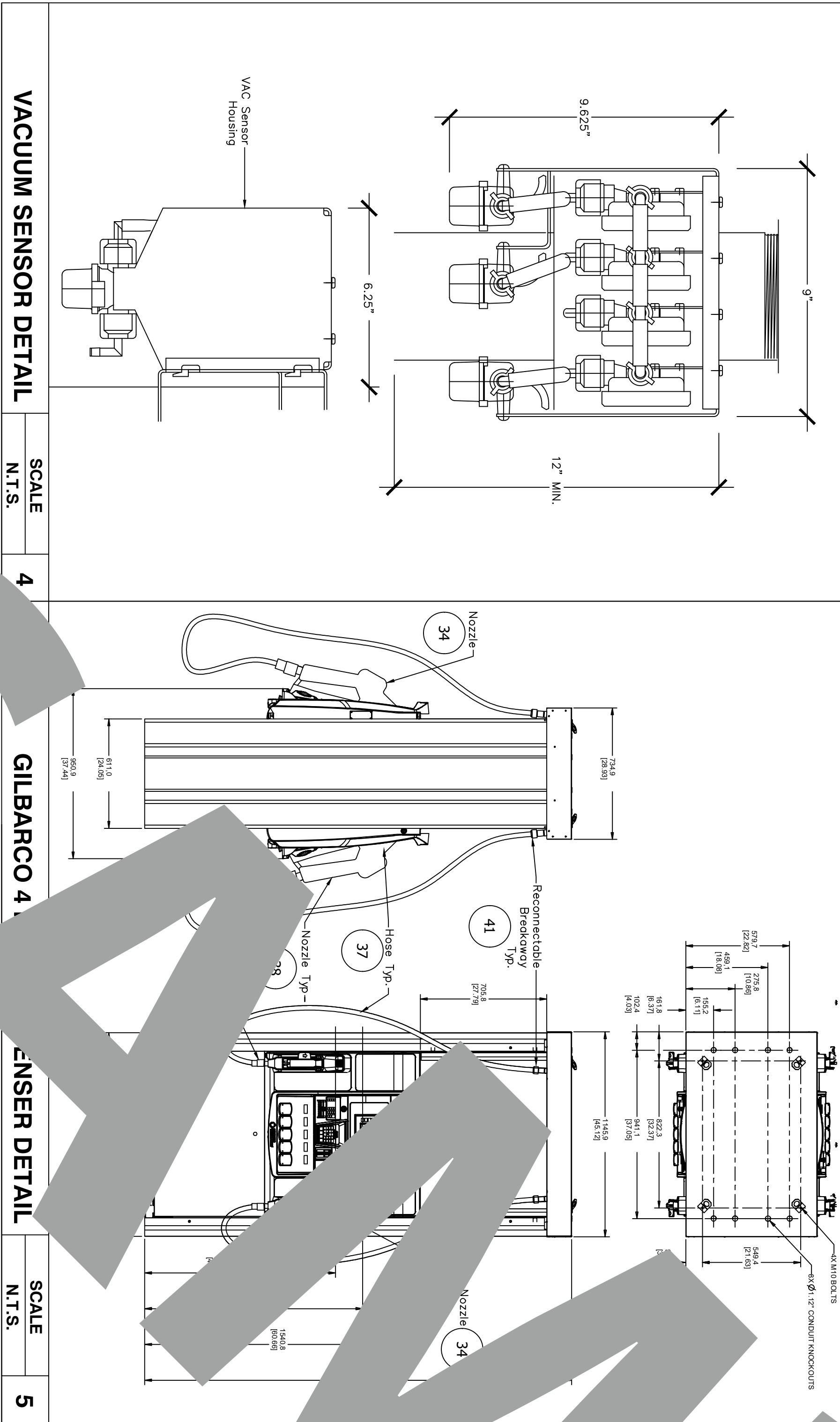
A-1

PIPING LAYOUT
& TANK DETAILS

Project	Sheet
Date	03/01/2025
Scale	AS NOTED



ANNULAR DETAIL	SCALE N.T.S.	1	VENT TRANSITION BOX DETAIL	SCALE N.T.S.	2	UDC DETAIL	SCALE N.T.S.	3
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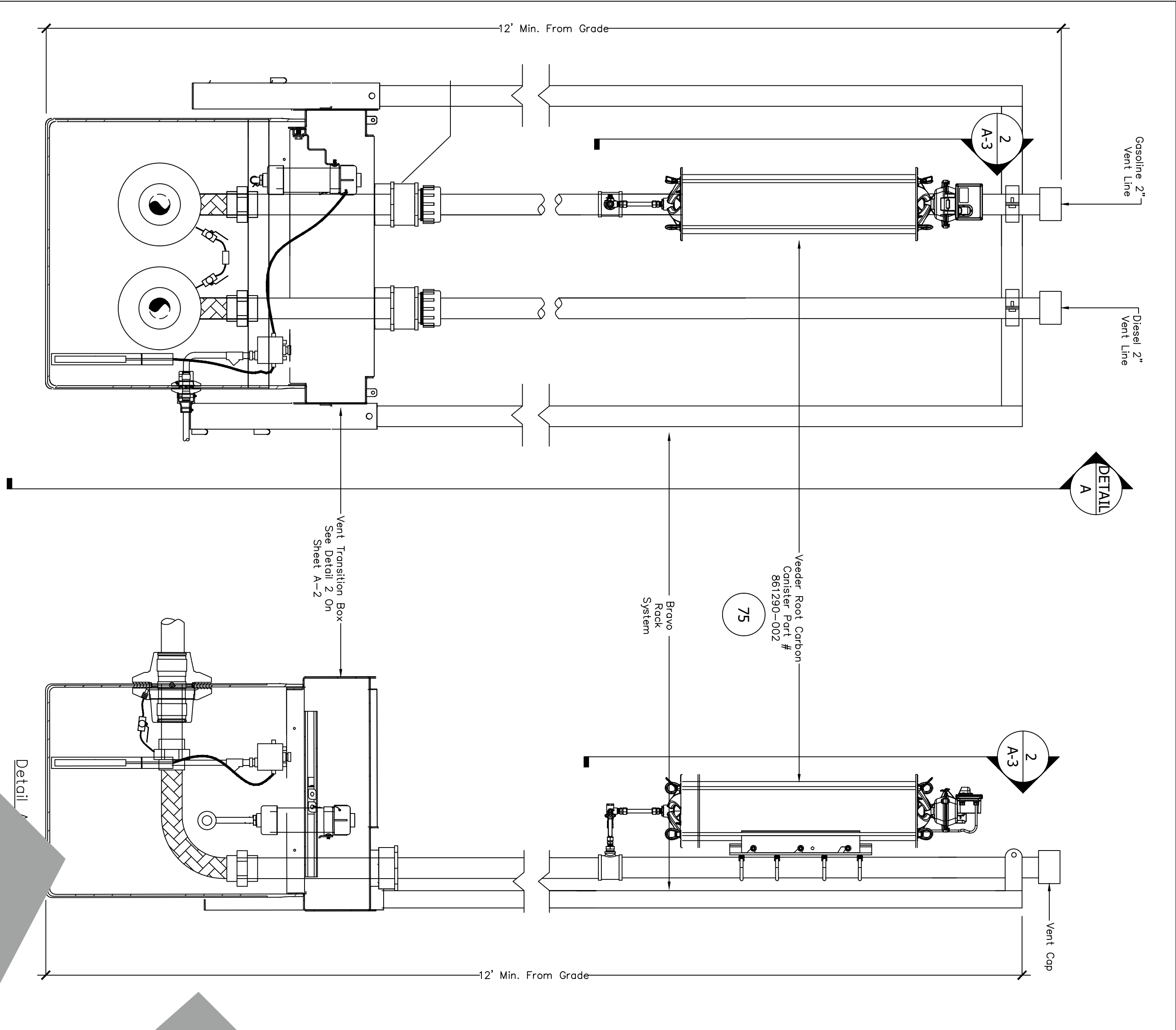
**12613 Doty Ave.
 Hawthorne, CA 90250**

No.	Revision/Issue	Date

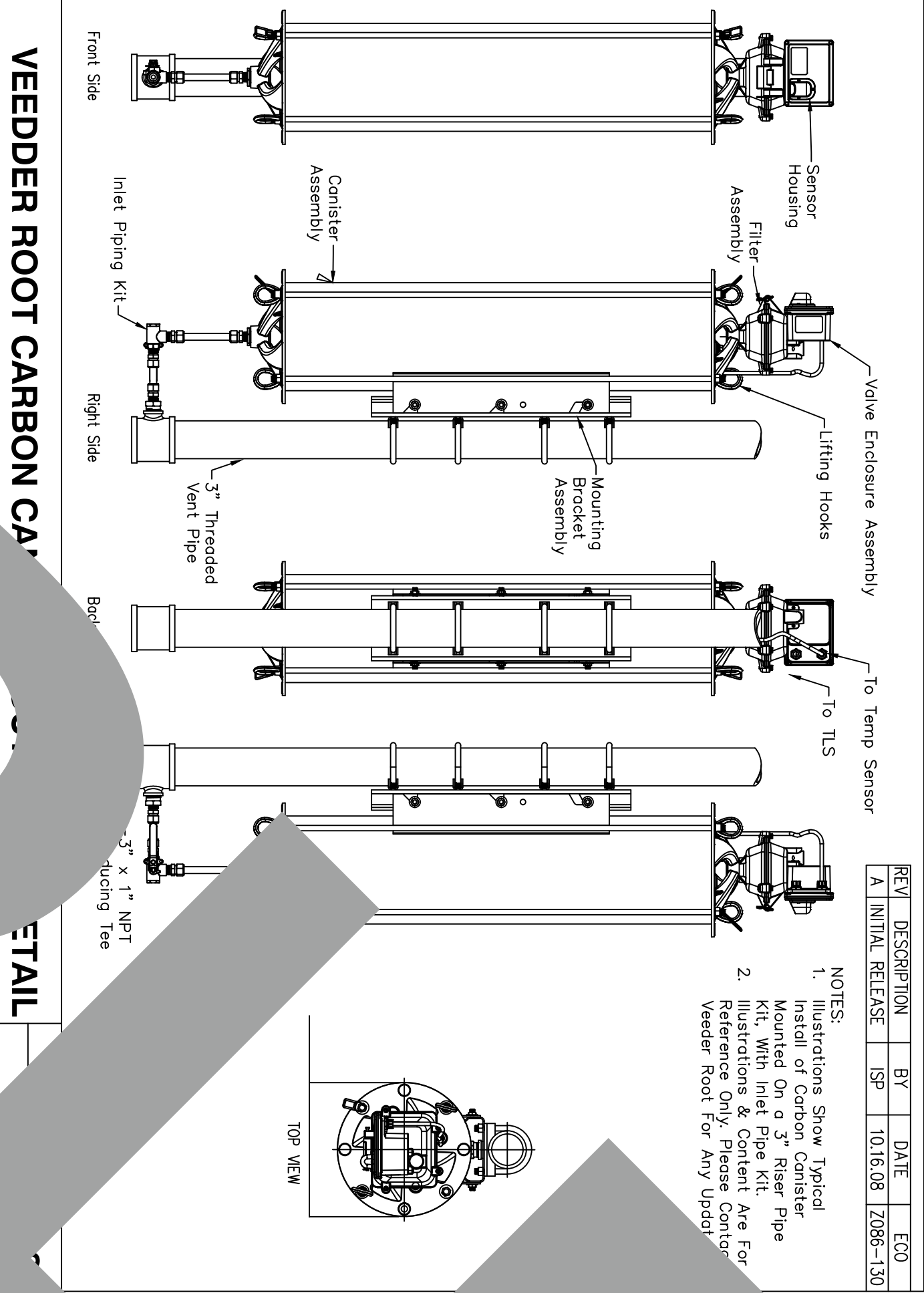
A-2

TANK DETAILS

Project	Sheet
Date	SP-2
Scale	AS NOTED



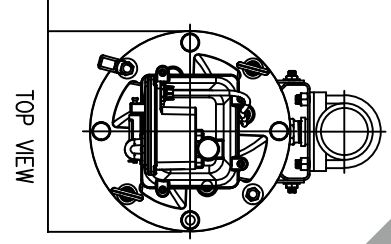
VEEDER ROOT CARBON CANISTER/TRANSITION BOX L



VEEDER ROOT CARBON CANISTER R

REV	DESCRIPTION	BY	DATE	ECO
A	INITIAL RELEASE	SP	10.16.08	2086-130

- NOTES:
1. Instructions Show Typical Install of Carbon Canister Mounted On a 3" Riser Pipe With Inlet Pipe Kit. Are For Reference Only. Please Contact Veeder Root For Any Update.
 - 2.



TOP VIEW

A-3

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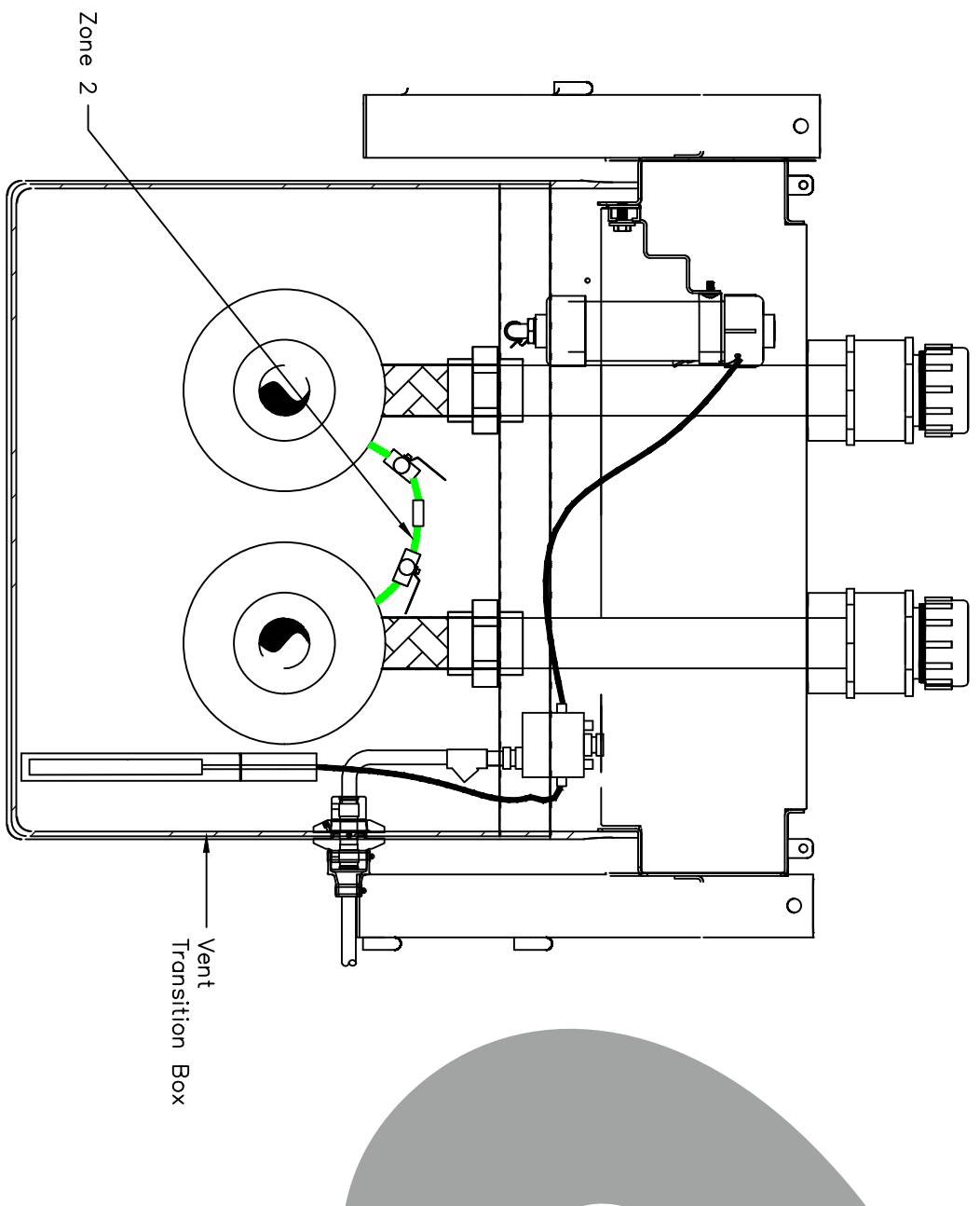
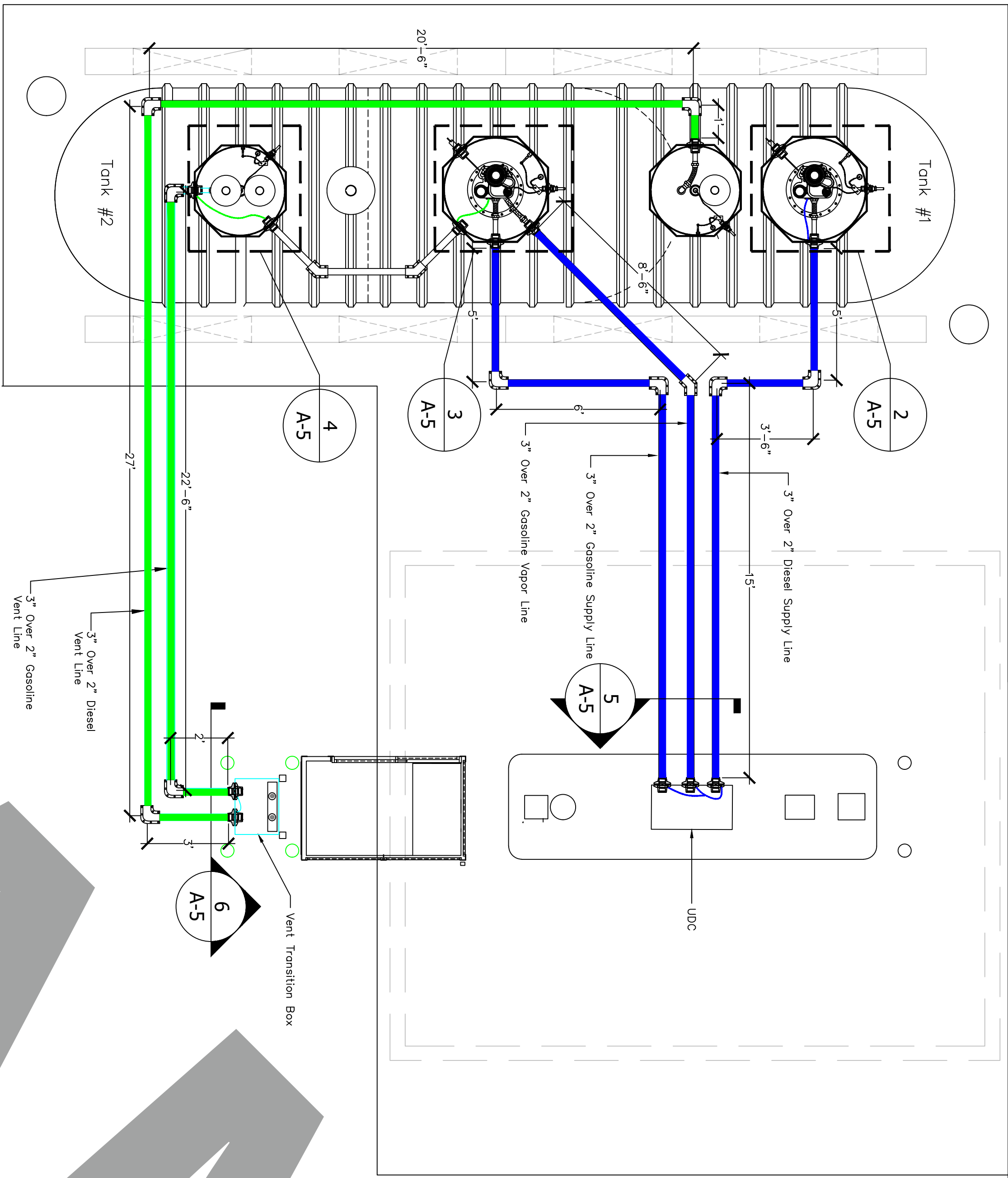


TANK DETAILS

Project	Sheet
Date	A-3
Scale	AS NOTED

When connecting the end of a hold-down strap to the anchor, The following method will be used: (see Figure H-4)

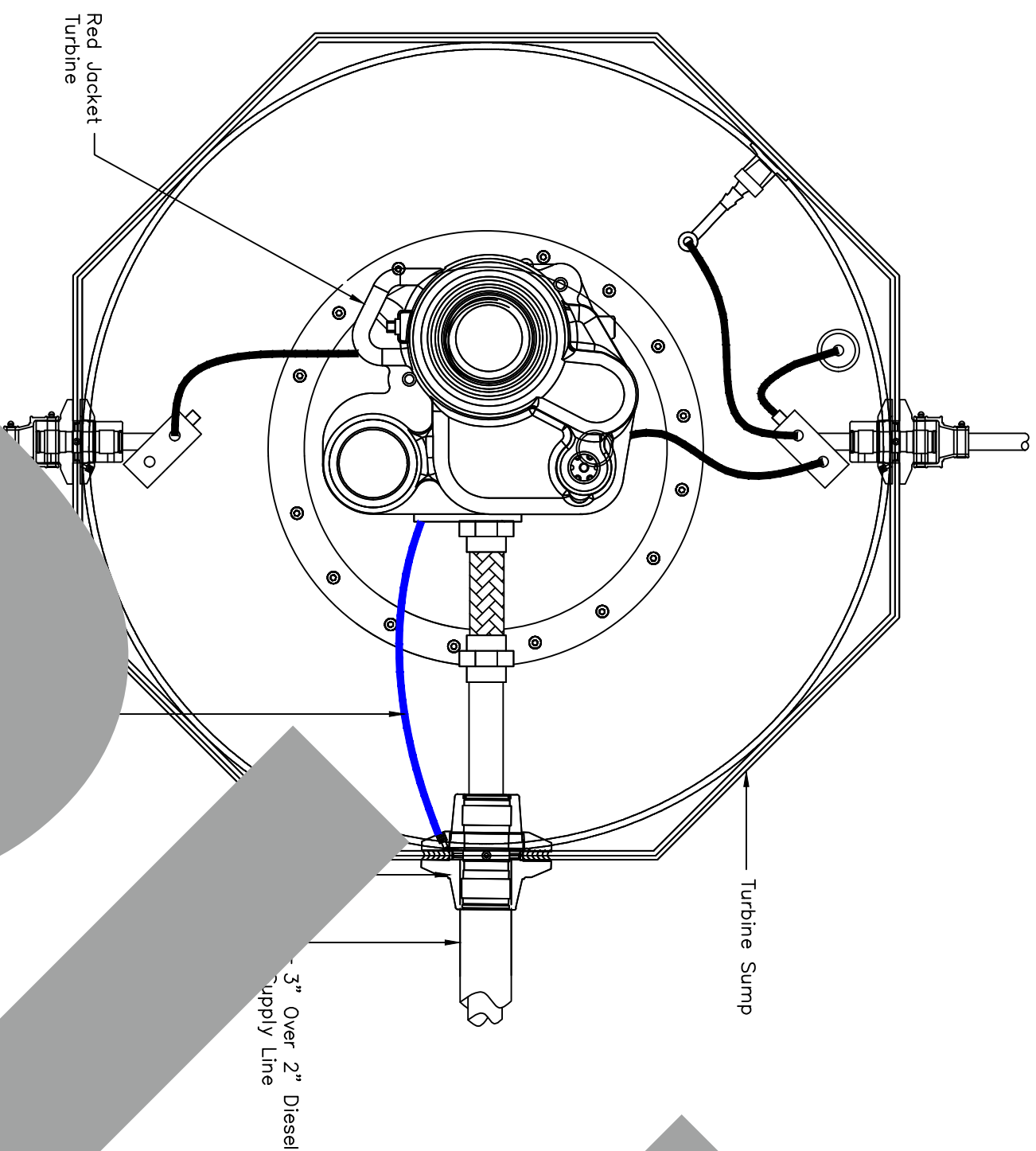
SENSOR/MAKE/MODEL	LOCATION	MODE	LINEAR FEET EQUATION	VOLUME
VEEDER ROOT VACUUM SENSOR KIT 330020-480	TANK #1	#1 DIESEL PRODUCT PIPE #2 VAPOR PIPE #3 GASOLINE PRODUCT PIPE	23.5'x.23=5.405 23.5'x.23=5.405 26'x.23=5.98	5.405 GALLONS 5.405 GALLONS 5.98 GALLONS
VEEDER ROOT VACUUM SENSOR KIT 330020-485	TANK #2	#1 GASOLINE VENT LINE #2 DIESEL VENT LINE	24.5'x.23=5.635 51.5'x.23=11.845	5.635 GALLONS 11.845 GALLONS



VENT TRANSITION BOX DETAIL

SCALE
N.T.S.

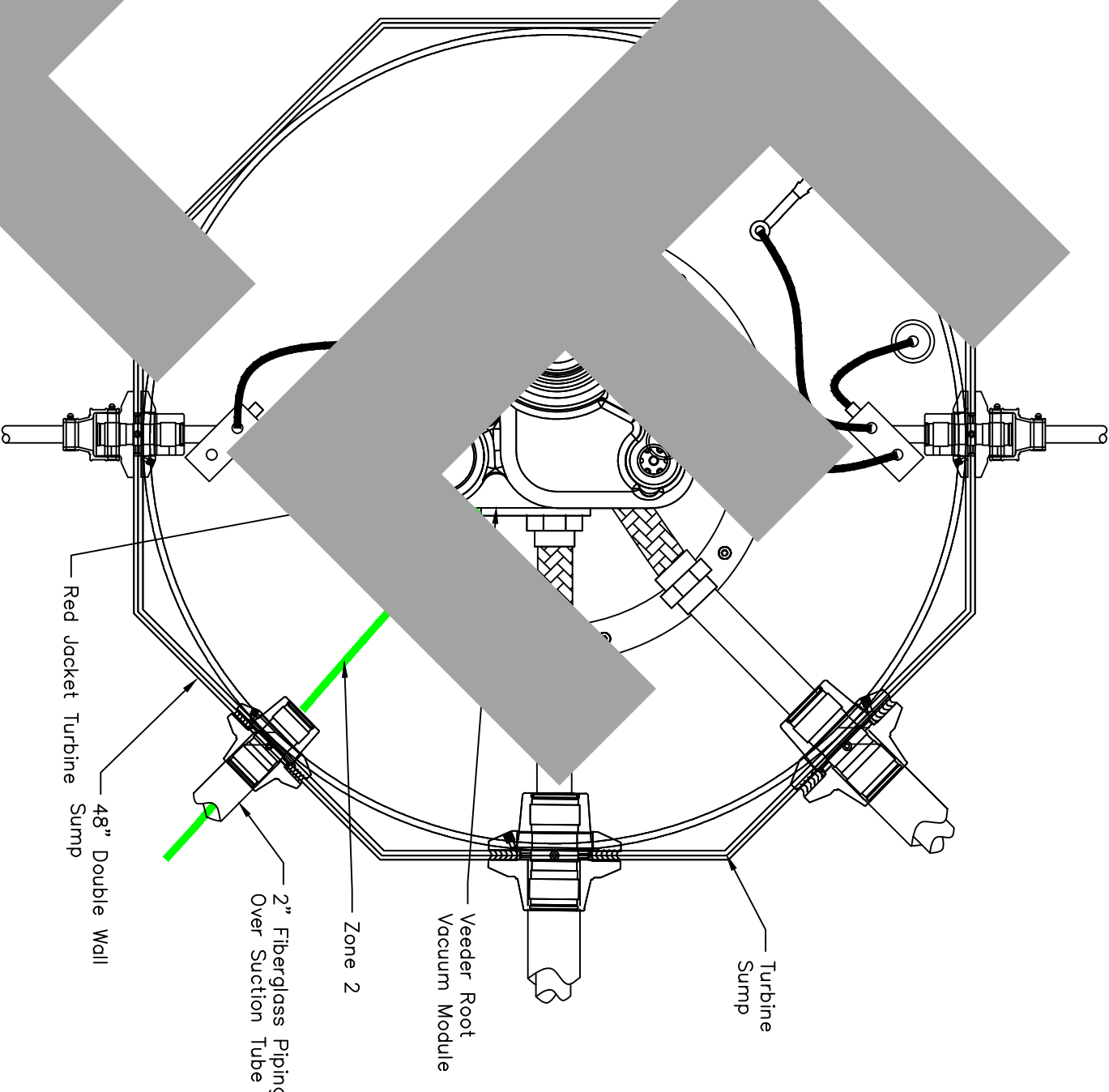
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DIESEL TURBINE SUMP DETAIL

SCALE
N.T.S.

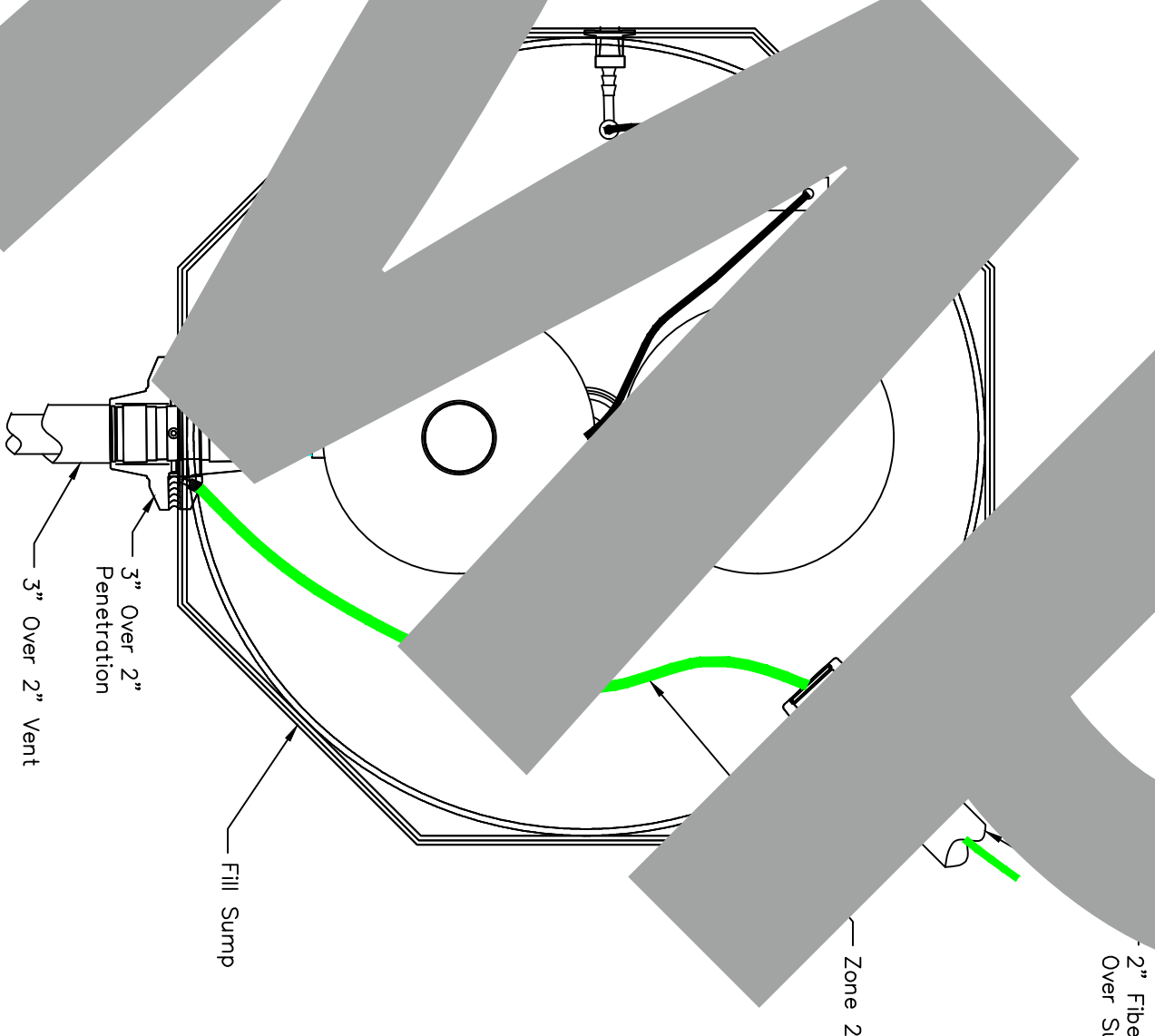
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GASOLINE TURBINE SUMP DETAIL

SCALE
N.T.S.

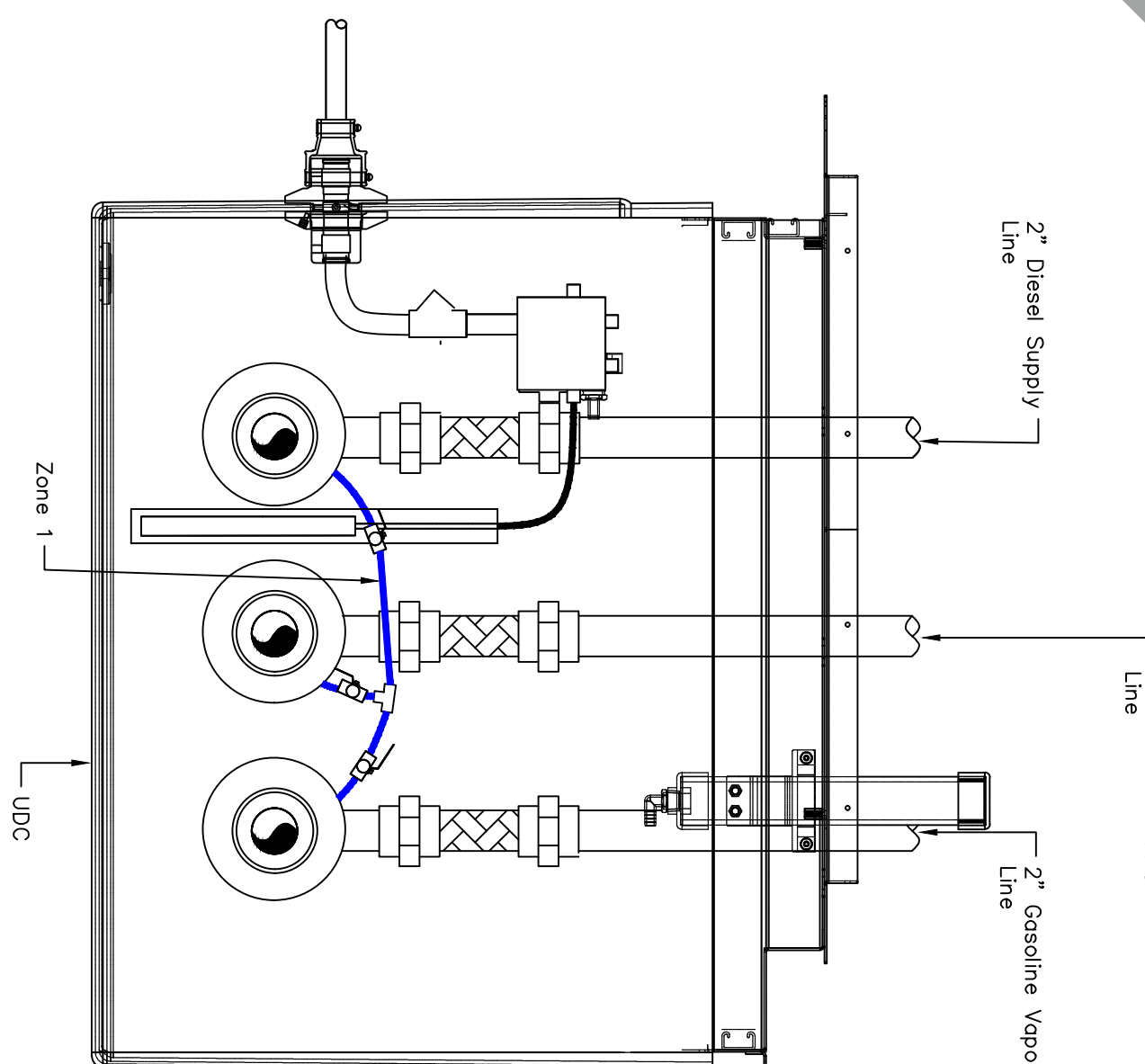
5



GASOLINE FILL SUMP DETAIL

SCALE
N.T.S.

4



UDC DETAIL

SCALE
N.T.S.

5



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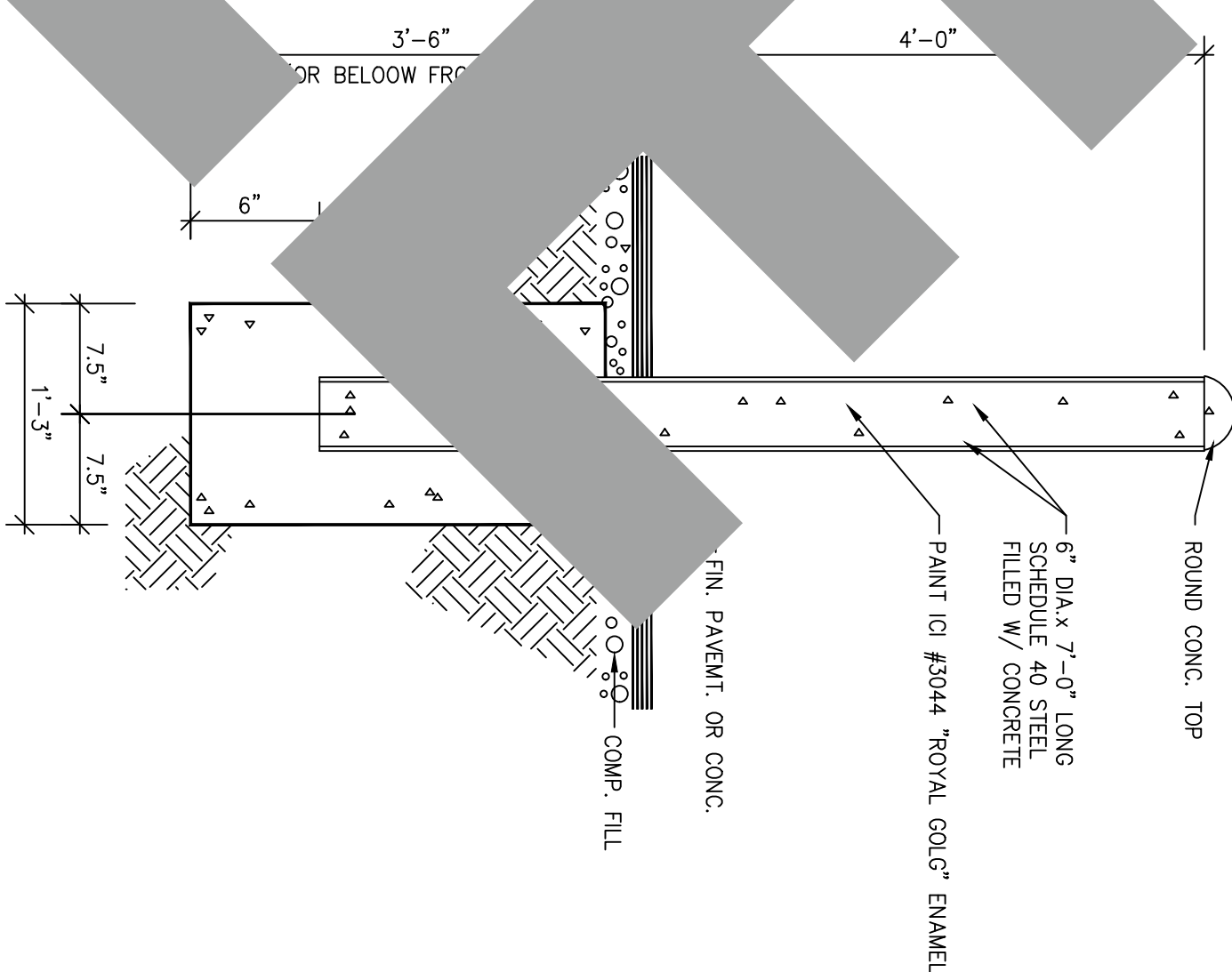
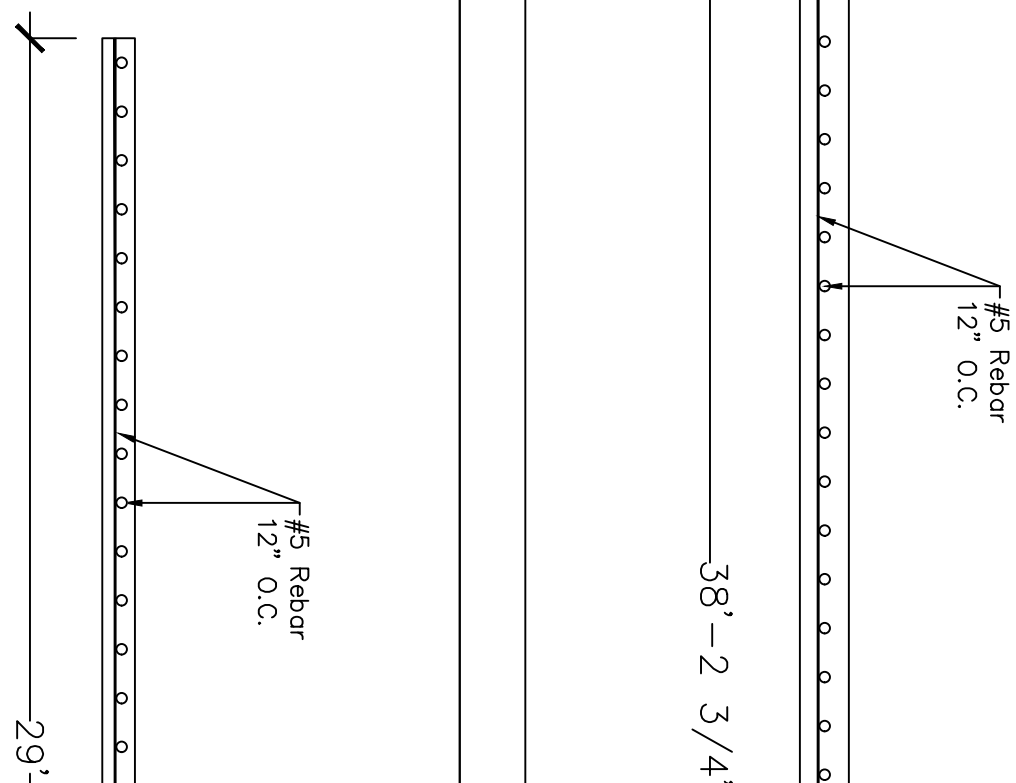
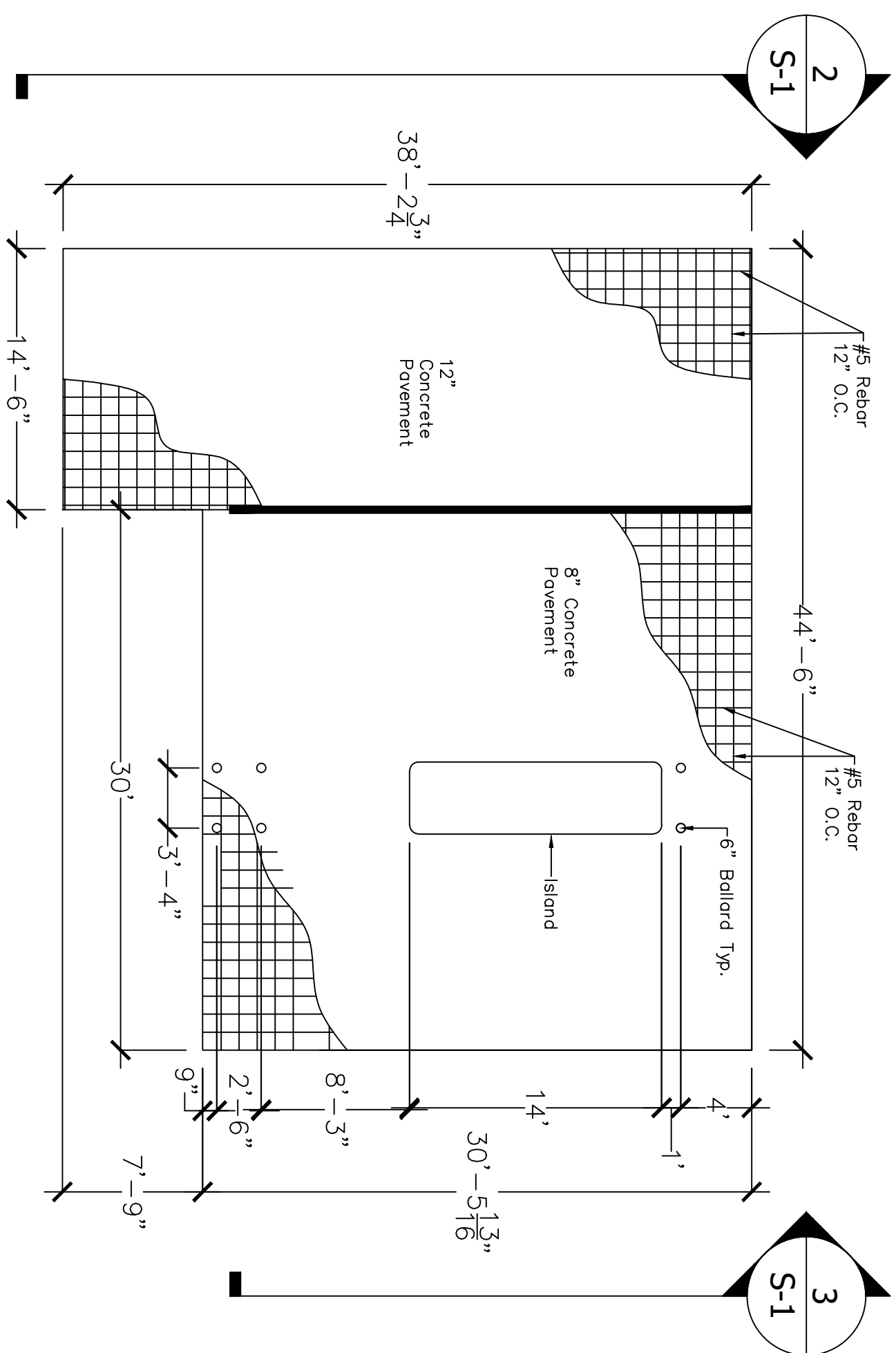
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No.	Revision/Issue	Date

A-5

Sheet Title:
Zones

Project	Sheet
Date	A-5
Scale	AS NOTED



CONCRETE AND REINFORCING STEEL

CONCRETE PLAN VIEW DETAIL	
SCALE	1
N.T.S.	

DESIGN CR

CONCRETE	ON DETAIL	SCALE	BUMPER POLE DETAIL	SCALE	4
	N.T.S.	N.T.S.		N.T.S.	

POST INSTALLED ANCHORS:

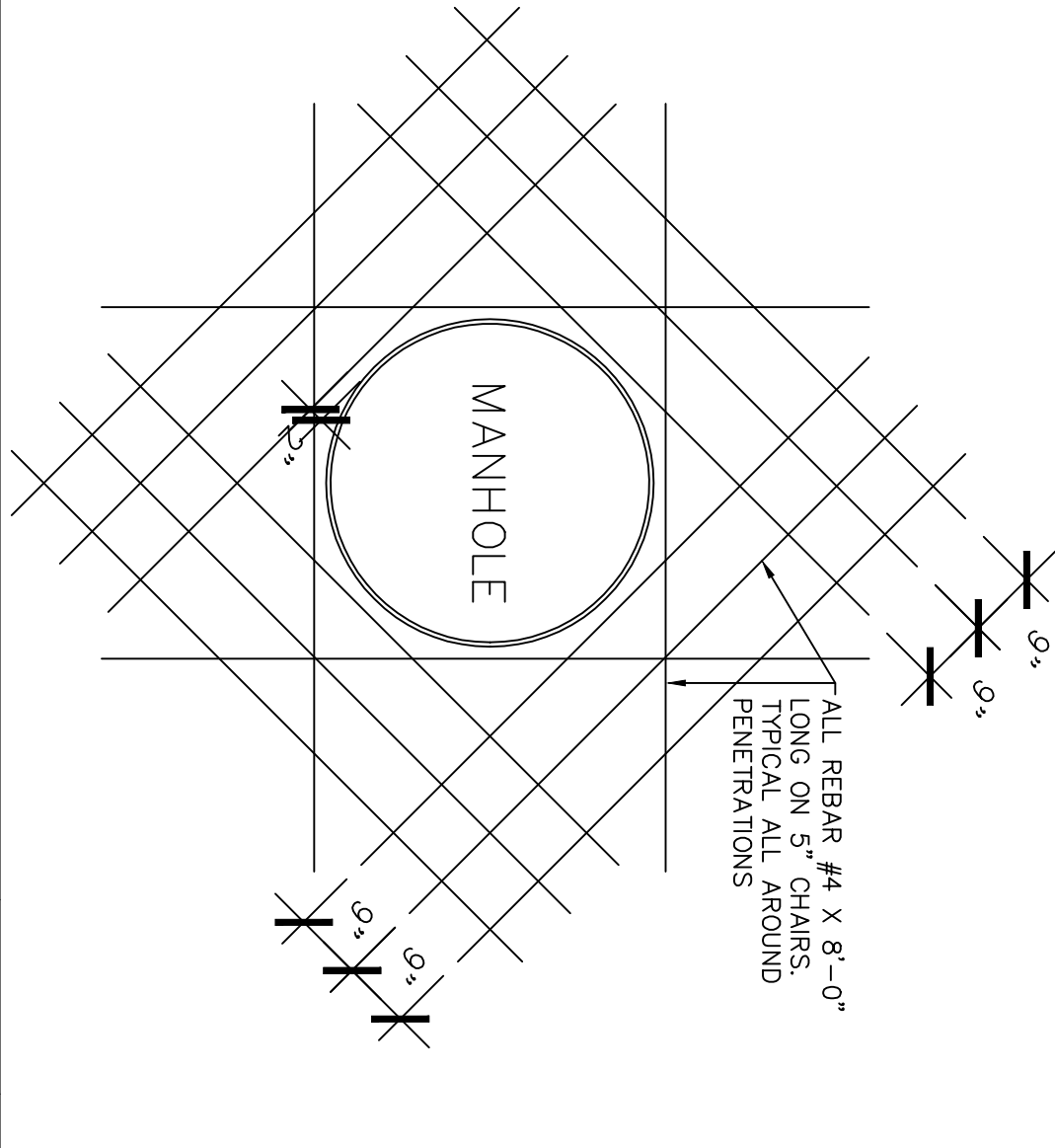
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ESR REPORTS:
- | | |
|------------------------|------------------------|
| HILT KWK BOLT TZ | ESR-1917 (IN CONCRETE) |
| | (LARR 25701) |
| HILT HIT-HY 200 | ESR-3187 (IN CONCRETE) |
| | (LARR 26077) |

2. SPECIAL PRETECTION IS REQUIRED FOR ESR ALLOWABLE TENSION VALUES LISTED IN ESR REPORTS ABOVE.
 3. DESIGN LOADS ON ANCHORS ARE NOT TO EXCEED 120% OF THE TENSION & SHEAR VALUES LISTED IN THE ESR REPORT NOTED ABOVE – COMBINED LOADING.
4. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.

EPOXY ANCHORS NORMAL WEIGHT CONCRETE		LARR 25/70T	
F'c = 3000 PSI		ICC ESR No. 1917	
EXPANSION ANCHORS HILTI KWIK BOLT 1Z			
ANCHOR DIAMETER	MINIMUM EMBED DEPTH (INCHES)	INSTALLATION (F1-B5)	
5/8"	4" (EFFECTIVE) 4.435" (MIN)	60	
1/2"	3"	60	

SPECIAL INSPECTION:

- Required for Post Installed Anchors – Verification of Anchor size, Depth and Torque



REINFORCEMENT LAP
SPLICE LENGTHS (IN INCHES)

F'C = 3000 PSI AT 28 DAYS											
SPICE CLASS	REIN'F LOCATION	REINFORCEMENT SIZE (GREG. UNO)									
		#3	#4	#5	#6	#7	#8	#9	#10	#11	
A	TOP	21	28	37	46	63	82	104	132	162	
	BOTTOM	16	22	27	35	48	63	80	102	125	
	TOP	27	36	45	60	82	107	135	172		
B	BOTTOM	21	20	37	46	63	82	104	132		

TOP REINFORCING IS HORIZONTAL REINFORCEMENT THAT HAS MORE THAN INCHES OF CONCRETE PLACED BELOW IT.

LAP SPLICE LENGTHS ABOVE ARE BASED ON CRSI CATEGORY 3

ALL REBAR TO BE WELDED SHALL BE CONTINUOUSLY INSPECTED BY A QUALITY LABORATORY.

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE
2. NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.

NO

1. ALL SPECIAL INSPECTION & TESTING AGENCIES SHALL BE QUALIFIED PER ASTM E329.
2. PROVIDE INSPECTION REPORTS TO BUILDING DEPARTMENT, OWNER, ARCHITECT AND ENGINEER WITHIN TWO WEEKS OF PERFORMANCE OF INSPECTION OR TEST.

S-1

Hawthorne City Yard

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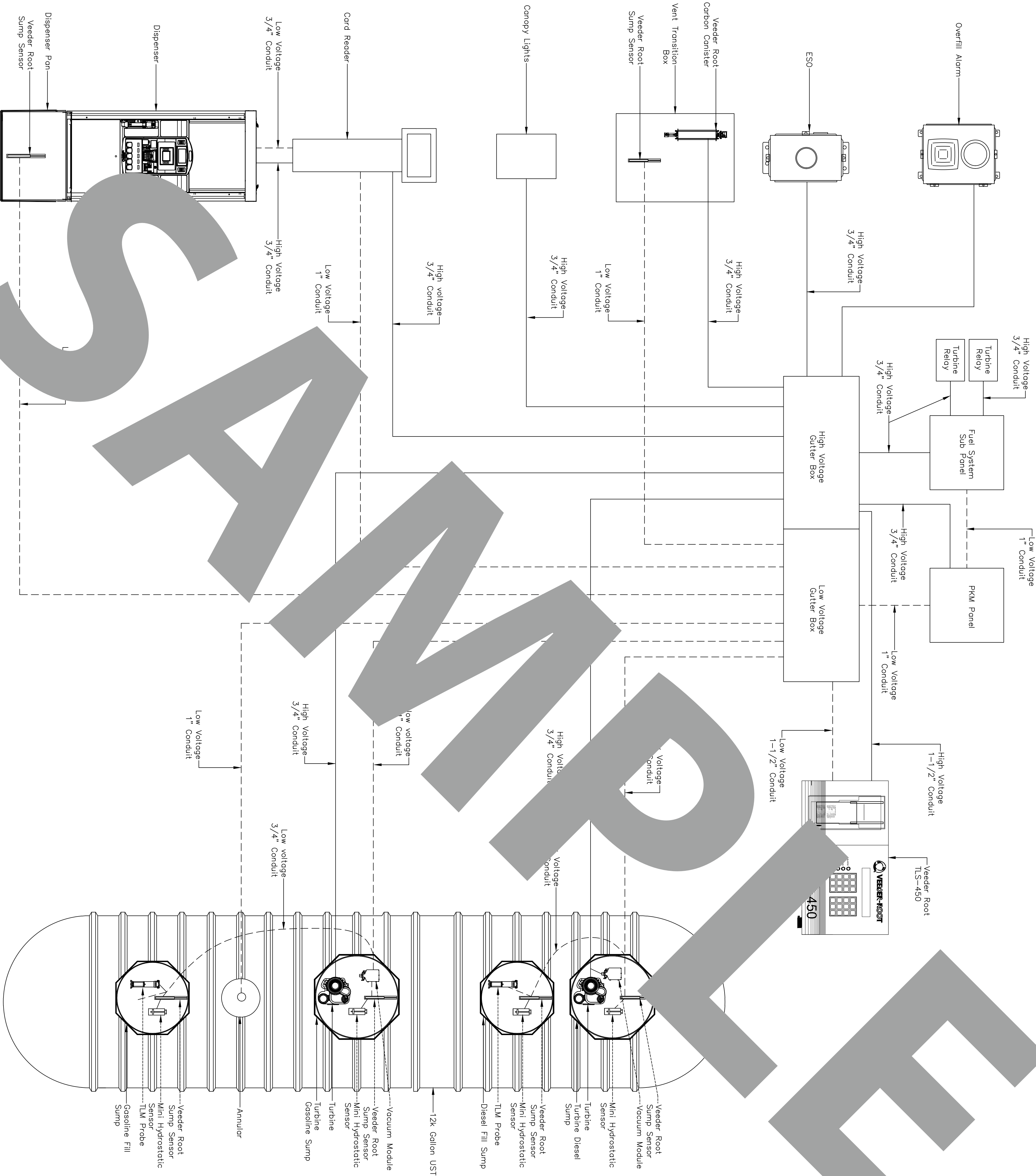
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Structural Details

No.	Revision/Issue	Date

Project	Sheet
Date	S-1
Scale	



CONDUIT SINGLE LINE DIAGRAM DETAIL

SCALE
N.T.S.

1



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E-2

Electrical Details

Project	Sheet
Date 06/14/2024	E-2
Scale AS NOTED	