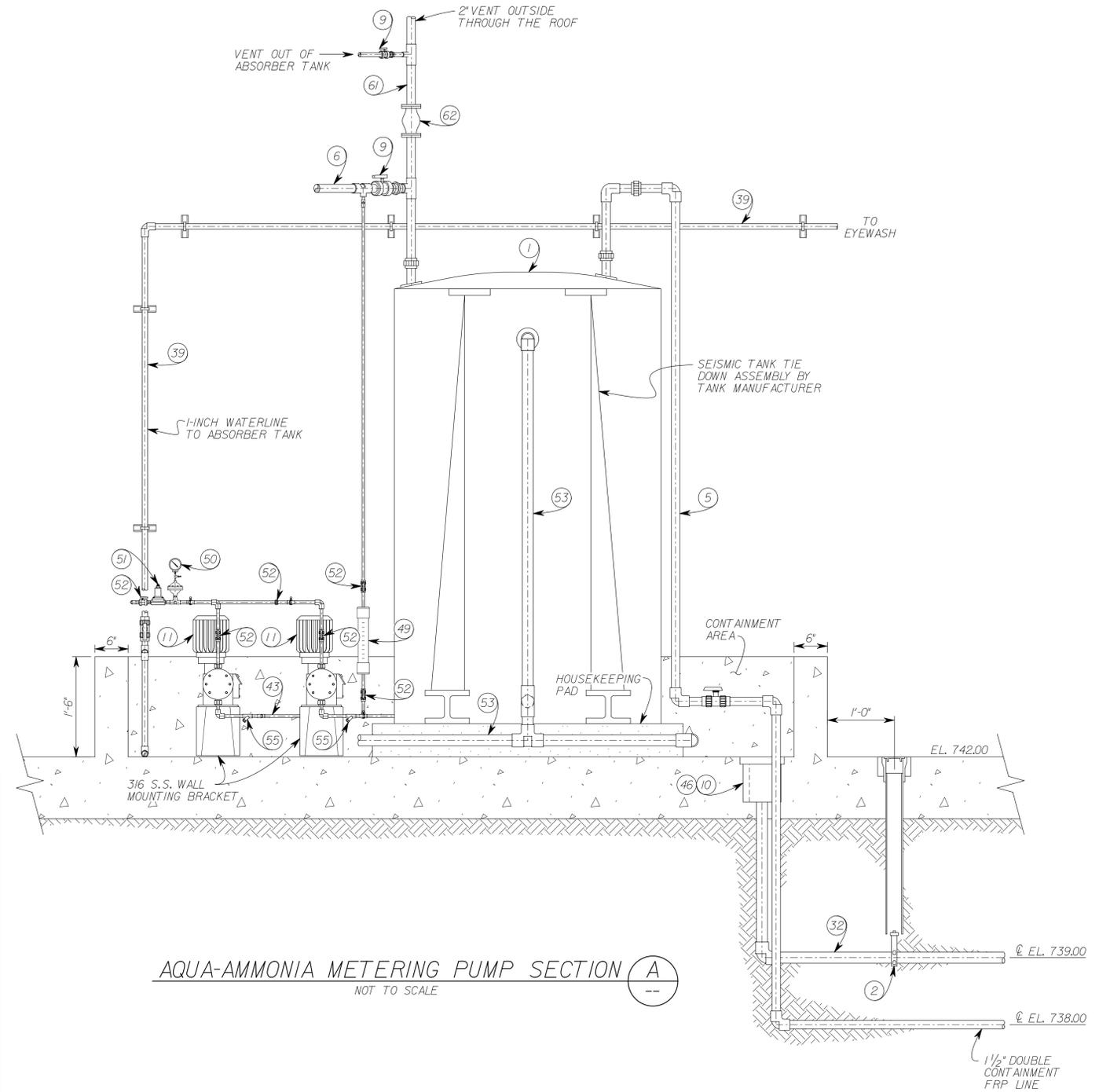


AQUA-AMMONIA METERING PUMP PLAN
SCALE: 1" = 1'-0"



AQUA-AMMONIA METERING PUMP SECTION A
NOT TO SCALE

LIST OF MATERIALS							
ITEM	DESCRIPTION	SIZE	QTY	ITEM	DESCRIPTION	SIZE	QTY
1	500 GALLON AA HD-XPLE STORAGE TANK (DIA. 4'-0", H-7'-0") WITH 6'-0" LADDER	-	1	49	METERING PUMP CALIBRATION COLUMN	-	1
2	BARE STEM EPDM & SS BUTTERFLY VALVE (NORMALLY CLOSED WITH LOCK)	2"	1	50	PULSATION DAMPENERS BY MILTON ROY OR EQUAL	-	1
3	ABSORBER PE TANK (DIA. 2'-0", H-48")	-	1	51	BACK PRESSURE VALVE BY MILTON ROY OR EQUAL	1/2"	1
5	AA FILL AND RETURN W/EPDM DIAPHRAGM VALVE	1 1/2"	AS REQ'D	52	TRUE UNION EPDM DIAPHRAGM VALVE	1/2"	12
6	VENT TO ABSORBER TANK (PVC)	2"	AS REQ'D	53	SCH 80 PVC OVERFLOW AND DRAIN	2"	AS REQ'D
7	PVC PIPE ON TANK FLOOR W/ 1/2" DIA. HOLES DRILLED @ 2' O.C. (TYP)	2"	AS REQ'D	54	SCH 80 PVC PIPE AND FITTINGS FOR AA INJECTION LINE	1/2"	AS REQ'D
8	FLOAT CONTROL VALVE W/FLOAT MECHANISM (CLA-VAL 129-01)	3/8"	1	55	PVC TRUE UNION WYE STRAINER	1/2"	2
9	PVC TRUE UNION BALL VALVE (NORMALLY OPEN)	2"	1	56	E&H DOSIMAG FLOWMETER	1/2"	1
10	FLOOR DRAIN (ZURN Z-1901 OR EQUAL)	12"	4	57	PRESSURE REGULATING VALVE WATTS MODEL SS263AP OR EQUAL	1/2"	1
11	MILTON ROY METERING PUMP (2.4 GAL/HR, 90 PSI)	-	2	58	PRESSURE SWITCH ALLEN BRADLEY 836 T OR EQUAL	1/2"	1
28	PVC SCH 80 PIPE AND FITTINGS FOR AA INJECTION LINE W/ 1/2" TUBING	1"	AS REQ'D	59	PRESSURE INDICATOR SEE SPEC. 13621 FOR DETAILS.	1/2"	2
32	PVC SCH 40 PIPE	2"	AS REQ'D	60	CLA-VAL RP-1 OR APPROVED EQUAL BACKFLOW PREVENTER DEVICE. SEE NOTE II HERON	1"	1
39	TYPE K HARD DRAWN COPPER TUBING	1"	AS REQ'D	61	SCRUBBER TANK VENT OUTSIDE THROUGH THE ROOF	2"	AS REQ'D
43	AQUA AMMONIA FROM TANK TO PUMP SUCTION PIPE PVC SCH 80	1/2"	AS REQ'D	62	VACUUM RELIEF VALVE	2"	1
46	CLEAN OUT IN VERTICAL AND VENT WITH TRAP PRIMER	1 1/2" & 2"	4	63	PVC TRUE UNION BALL VALVE	1/2"	1

SHEET NOTES:

- TANK VENT IS NOT SHOWN IN PLAN FOR CLARITY.
- THE TANKS PIPING SHALL BE MODIFIED AND SUBMITTED FOR APPROVAL IF THE APPROVED TANKS INLET, OUTLET, AND OVERFLOW LOCATIONS ARE DIFFERENT THAN THE LOCATIONS SHOWN IN THIS DRAWING.
- HAZARDOUS MATERIALS STORED AND/OR USED WITHIN THE BUILDING, SHALL COMPLY WITH THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.2 (2).
- TANK SUPPORT CALCULATIONS FOR SEISMIC SHALL BE SUBMITTED BY THE TANK MANUFACTURER.
- INSTALL 2" VACUUM RELIEF ON VENT. (PVC W/S.S. INTERNALS)

- INSTALL UNION AND BALL VALVE ON CHEMICAL TANK SCRUBBER TANK DRAINS.
- 1-INCH AND 2-INCH PIPES SHALL BE SUPPORTED PER DETAILS 5 AND 8 ON SHEET M-3.
- CONTAINMENT AREA TO BE EPOXY LINED AND COATED.
- CITY STAFF SHALL VISUALLY MONITOR CONTAINMENT AREA.
- ALL MATERIALS USED FOR AMMONIA SYSTEM SHALL BE LISTED AND MADE OF MATERIALS COMPATIBLE WITH 19% AMMONIA.
- RP DEVICE TO BE INSTALLED ABOVE CONTAINMENT WALL WITH SUPPORTS.

AKM JOB No. 0760890.00
Underground Service Alert
Call: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

0 1/2 1 24x36 FORMAT
IF THIS BAR MEASURES 1" THEN DRAWING SCALE IS AS NOTED
0 1/4 1/2 12x18 FORMAT
WARNING IF THIS BAR MEASURES 1/2" THEN DRAWING IS NOT FULL SCALE AND IS 50% REDUCED

Designed by KEVIN SALEH	Drawn by CADD	Checked by GARY J. HOBSON
PLANS PREPARED UNDER SUPERVISION OF GARY J. HOBSON		
Date MARCH 2010	R.C.E. No. 40779	

AKM AKM CONSULTING ENGINEERS
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CDWP	Department of Water and Power Approval
WMWD	By Donald A. Williams, P.E. R.C.E. No. 32333 EXP 12/31/2010

Approved	By Jeffrey D. Sims, P.E. R.C.E. No. 48212, Exp. 12/31/10 Assistant General Manager/ Chief Operations Officer
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Approved	By Kip D. Field, P.E. R.C.E. No. 45679, Exp. 12/31/10 Public Works Director
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CITY OF CORONA - ARLINGTON DESALTER CONNECTION		Drawing No. 09-050U
WESTERN MUNICIPAL WATER DISTRICT - PROMENADE CONNECTION		M-2
AQUA-AMMONIA METERING PUMP PLAN AND SECTION		Sht. 6 of 24

