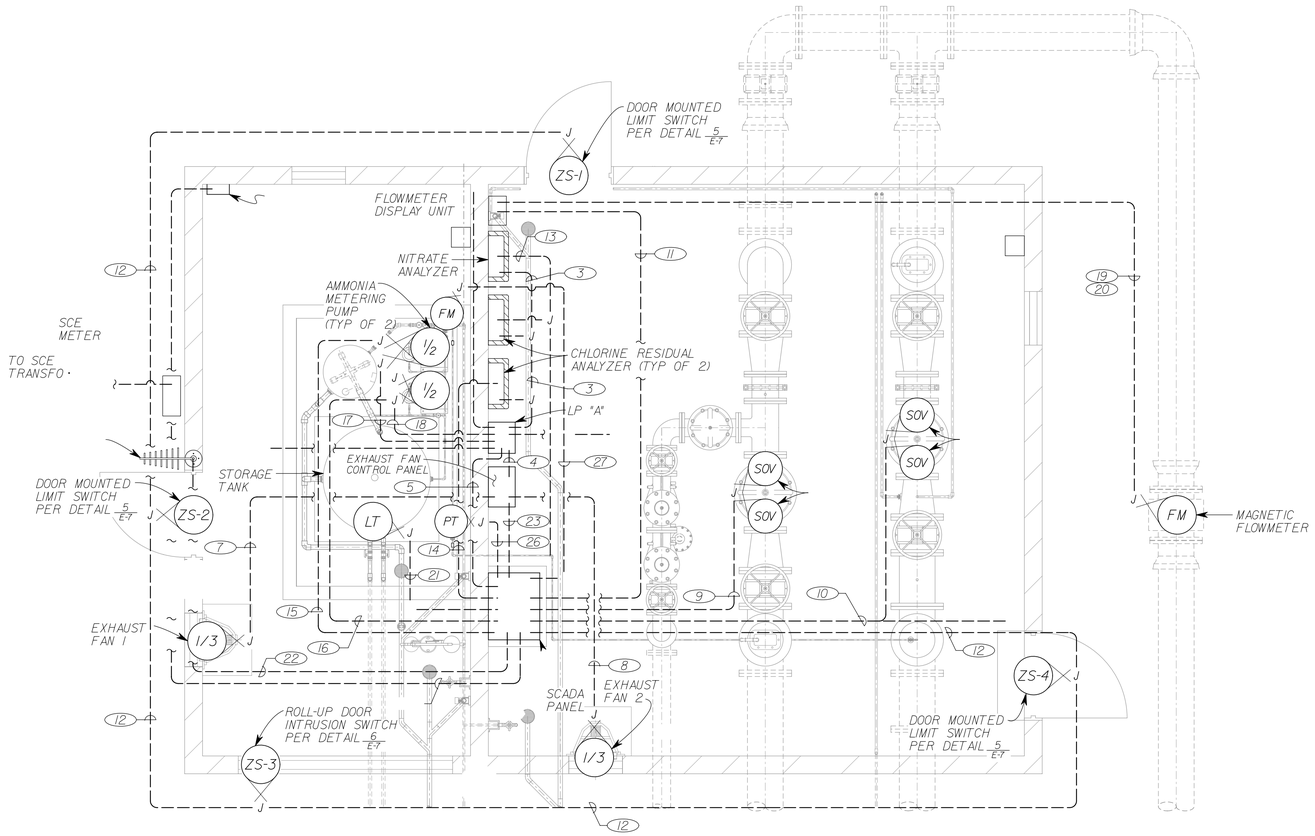

CONDUIT PLAN

SCALE: 3/8" = 1'-0"

CONDUIT SCHEDULE

CONDUIT NO.	CONDUIT SIZE	CABLE QTY	CABLE SIZE	FROM	TO	REMARKS
1		PULL ROPE		SCE PULLBOX	SCE METER	CABLE BY SCE (CABLE PER SCE REQUIREMENTS)
2	2"	3, 1		SCE METER	LP "A"	240V/120V, 1Ø POWER, GROUND
3	1"	6, 1	#12, #12	LP "A" - CKT 7, CKT 9, CKT 8	CHLORINE RESIDUAL ANALYZER 1 CHLORINE RESIDUAL ANALYZER 2 NITRATE ANALYZER	120V, 1Ø POWER, GROUND
4	1"	2, 1	#12, #12	LP "A" - CKT 6	EXHAUST FAN CONTROL PANEL	120V, 1Ø POWER, GROUND
5	1"	2, 1	#12, #12	LP "A" - CKT 10	SCADA PANEL	120V, 1Ø POWER, GROUND
6	1"	2, 1	#12, #12	LP "A" - CKT 11	FLOWMETER DISPLAY UNIT	120V, 1Ø POWER, GROUND
7	1"	2, 1	#12, #12	EXHAUST FAN CONTROL PANEL	EXHAUST FAN 1	120V, 1Ø POWER, GROUND
8	1"	2, 1	#12, #12	EXHAUST FAN CONTROL PANEL	EXHAUST FAN 2	120V, 1Ø POWER, GROUND
9	1"	4	#14	SCADA PANEL	FLOW CONTROL VALVE 1	OPEN, CLOSE SIGNAL
10	1"	4	#14	SCADA PANEL	FLOW CONTROL VALVE 2	OPEN, CLOSE SIGNAL
11	1"	1	#16 TSP	FLOWMETER DISPLAY UNIT	SCADA PANEL	4-20mA FLOW SIGNAL
12	1"	2	#12	DOOR MOUNTED LIMIT SWITCHES	SCADA PANEL	INTRUSION ALARM
13	1"	2	#16 TSP	NITRATE ANALYZER, CHLORINE RESIDUAL ANALYZER 1	SCADA PANEL	4-20mA NITRATE CONCENTRATION, 4-20mA CHLORINE LEVEL
14	1"	2	#12	CHLORINE RESIDUAL ANALYZER 2	SCADA PANEL	CHLORINE TOTALIZER
15	1"	2	#16 TSP	SCADA PANEL	METERING PUMP 1	STROKE LENGTH FEEDBACK, 4-20mA REMOTE STROKE LENGTH SIGNALS
16	1"	2	#16 TSP	SCADA PANEL	METERING PUMP 2	STROKE LENGTH FEEDBACK, 4-20mA REMOTE STROKE LENGTH SIGNALS
17	1"	2, 1	#12, #12	LP "A" - CKT 12	METERING PUMP 1	120V, 1Ø POWER, GROUND
18	1"	2, 1	#12, #12	LP "A" - CKT 14	METERING PUMP 2	120V, 1Ø POWER, GROUND
19	1"	CABLE PROVIDED WITH FLOWMETER		FLOWMETER DISPLAY UNIT	FLOWMETER	SIGNAL CABLE
20	1"	CABLE PROVIDED WITH FLOWMETER		FLOWMETER	FLOWMETER DISPLAY UNIT	EXCITATION CABLE
21	1"	CABLE PROVIDED WITH TRANSDUCER		ULTRASONIC LEVEL TRANSDUCER	ULTRASONIC LEVEL DISPLAY UNIT	FORWARD TANK LEVEL SIGNAL TO SCADA PANEL
22	2"	1	7/8" COAXIAL CABLE	YAGI ANTENNA	ETHERNET RADIO	ANTENNA CABLE
23	1"	2	#12	SCADA PANEL	EXHAUST FAN CONTROL PANEL	AMMONIA LEAK SIGNAL
24	1"	2, 1			AMMONIA LEAK DETECTOR	/
25	1"	2	#12	AMMONIA LEAK DETECTOR	SCADA PANEL	AMMONIA LEAK ALARM
26	1"	2	#12	PRESSURE REGULATOR	SCADA PANEL	PRESSURE SWITCH HIGH
27	1"	1	#16 TSP	FLOWMETER	SCADA PANEL	4-20mA METERING PUMP FLOW SIGNAL

NOTES:

1. CONDUIT PLAN IS DIAGRAMATIC. CONTRACTOR SHALL ROUTE CONDUITS AS NECESSARY FOR FIELD CONDITIONS
2. ALL EXPOSED CONDUIT SHALL BE PVC COATED RIGID GALVANIZED STEEL
3. ALL BURIED CONDUITS SHALL BE CONCRETE ENCASED PER DETAIL 4/E-7

AKM JOB No. 0760890.00

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REGISTERED PROFESSIONAL ENGINEER GARY J. HOBSON No. 40779 Exp. 3/31/11 CIVIL STATE OF CALIFORNIA

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 JUSTIN M. LEE | Drawn by CADD | Checked by GARY J. HOBSON
PLANS PREPARED UNDER SUPERVISION OF GARY J. HOBSON
Date MARCH 2010 | R.C.E. No. 40779

Date	By	REVISIONS	App'd

AKM CONSULTING ENGINEERS
553 WALD
IRVINE, CA. 92618
(949) 753-7333

CDWP _____
WMWD _____

Department of Water and Power Approval
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. 46212, Exp. 12/31/10
Assistant General Manager/
Chief Operations Officer

Approved _____
By _____
Kip D. Field, P.E.
R.C.E. No. 45679, Exp. 12/31/10
Public Works Director

CITY OF CORONA - ARLINGTON DESALTER CONNECTION
WESTERN MUNICIPAL WATER DISTRICT - PROMENADE CONNECTION
CONDUIT PLAN

Drawing No. 09-050U
E-3
Sht. 17 of 24

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