### COUNTY OF STANISLAUS

DEPARTMENT OF PARKS AND RECREATION

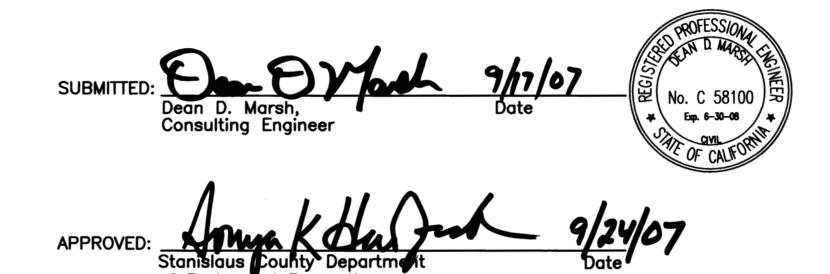
# WOODWARD RESERVOIR WATER WELL AND WATER FILTRATION SYSTEM

SEPTEMBER 2007

PROJECT SITE

DAKDALE

LOCATION MAP



### SHEET INDEX

SHEET 1 - COVER AND INDEX

SHEET 2 - WELL # 1 SITE PLAN
SHEET 3 - WELL # 1 WELL HEAD DETAIL

SHEET 4 - WELL # 2 SITE PLAN

SHEET 5 - WELL # 2 WELL HEAD DETA

SHEET 6 - TANK PROFILE AND FOUNDATION

HEET 7 - CHAIN LINK FENCE DETAILS

SHEET 8 - PLAN AND PROFILE 1 STA. 100+00 TO 111+50

SHEET 9 - PLAN AND PROFILE 2 STA. 111+50 TO 124+50

SHEET 10 - PIPE DETAILS

SHEET 11 - ELECTRICAL - SYMBOLS AND ABBREVIATIONS

SHEET 12 - WELL SITE NO. 1 ELECTRICAL PLAN

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SHEET 17- WELL SITE NO. 2 CONTROL WIRING DIAGRAM

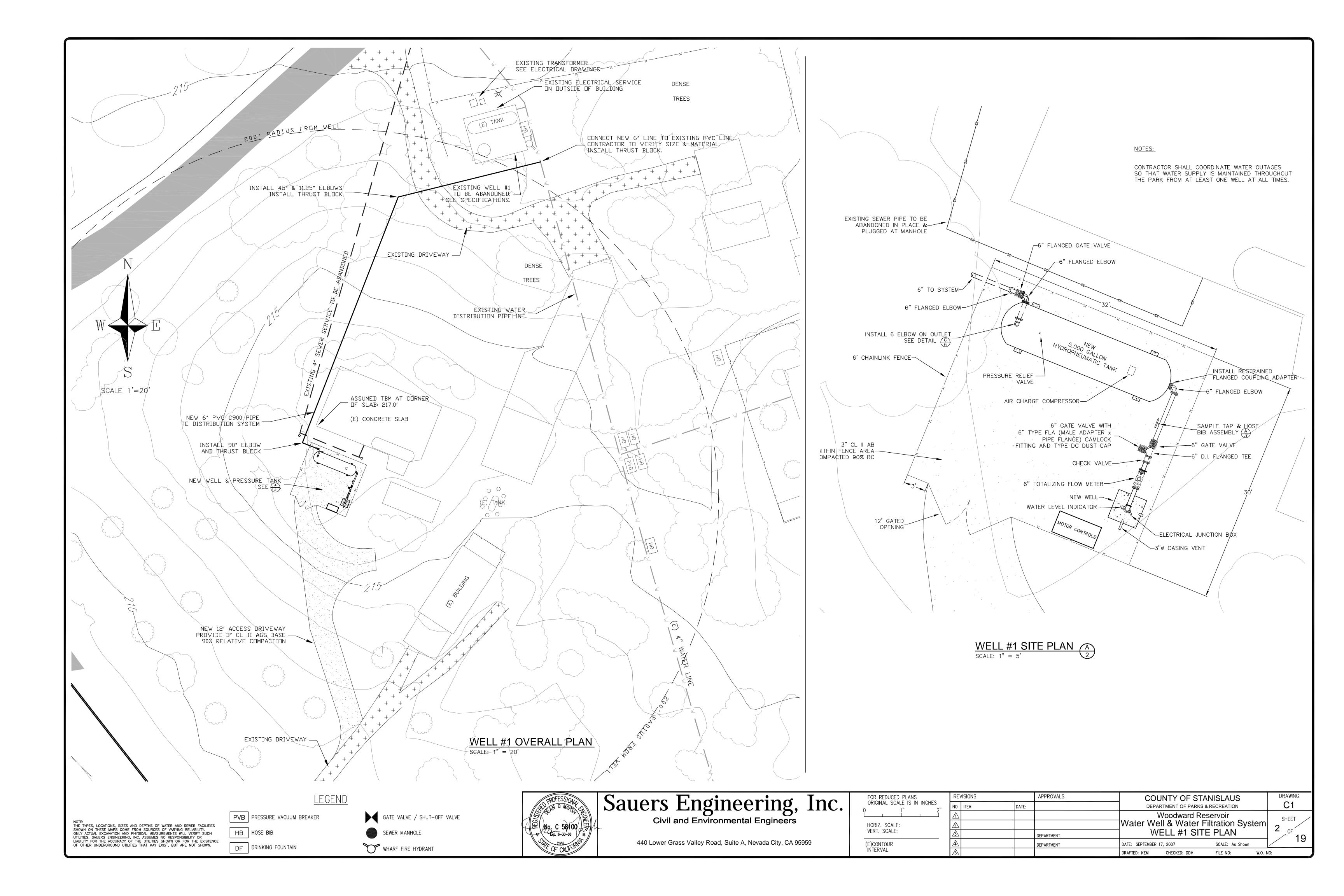
SHEET 18 - ELECTRICAL DETAILS I

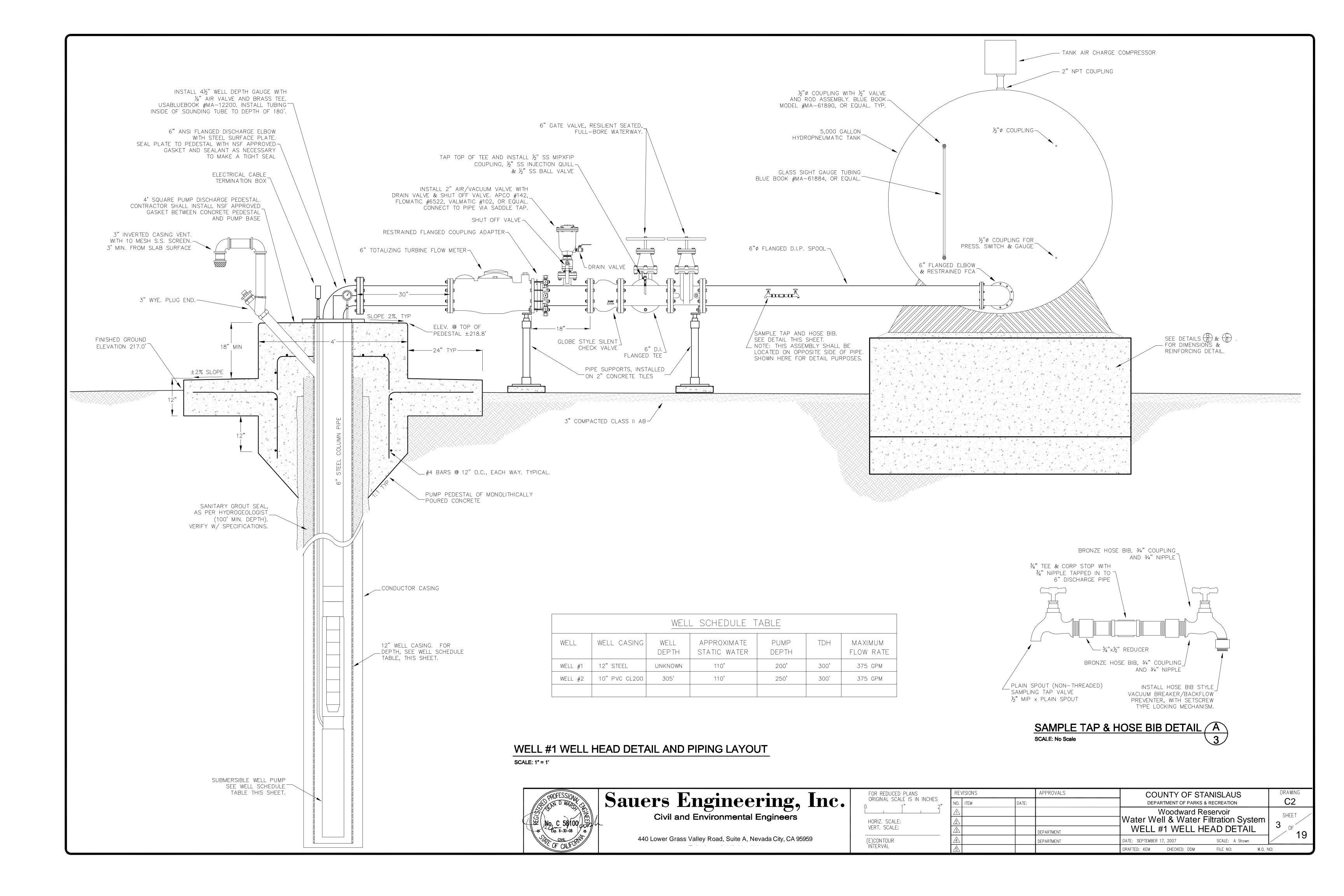
SHEET 19- ELECTRICAL DETAILS II

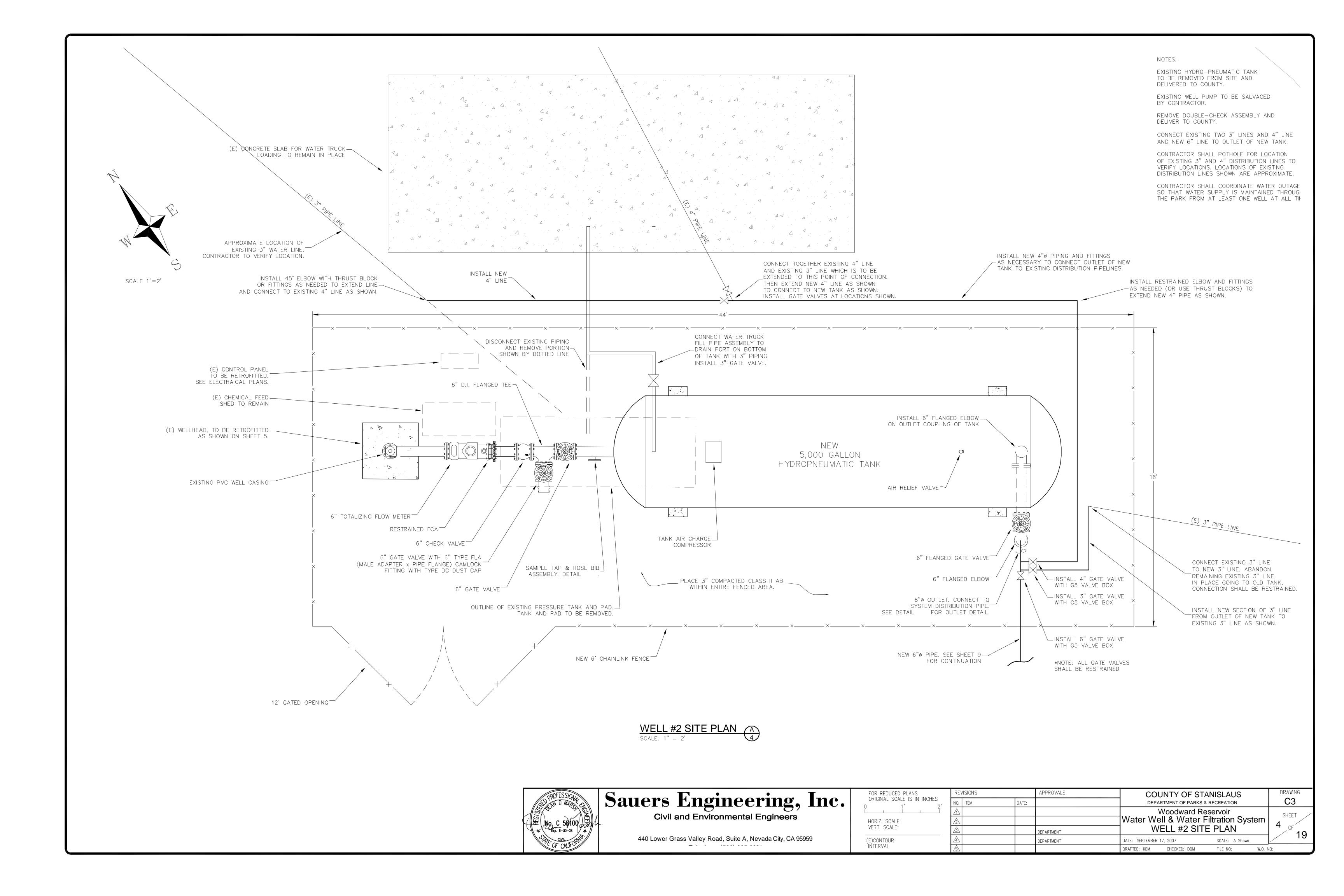
# Sauers Engineering, Inc. Civil and Environmental Engineers

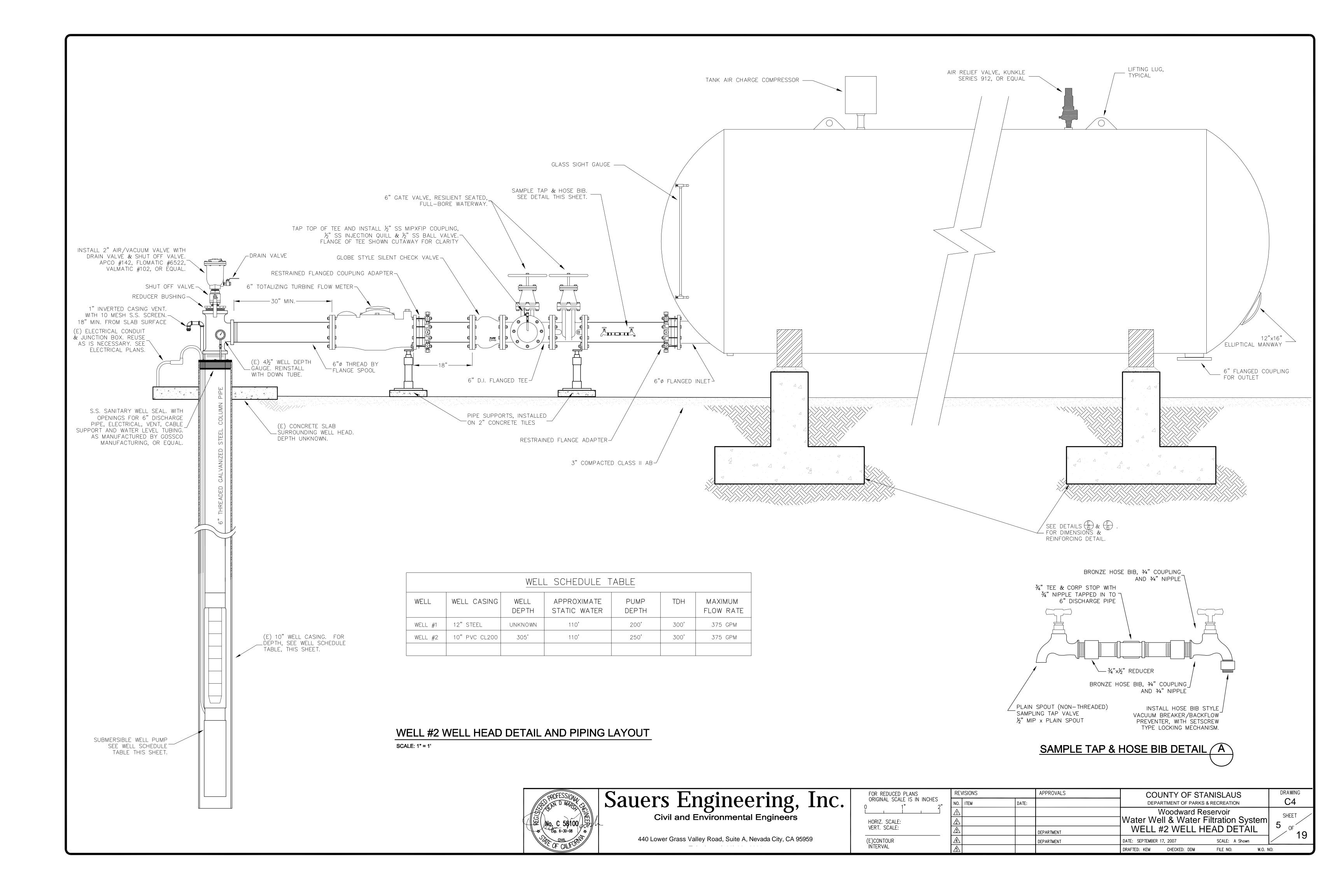
440 Lower Grass Valley Road, Suite A, Nevada City, CA 95959 Telephone (530) 265-8021

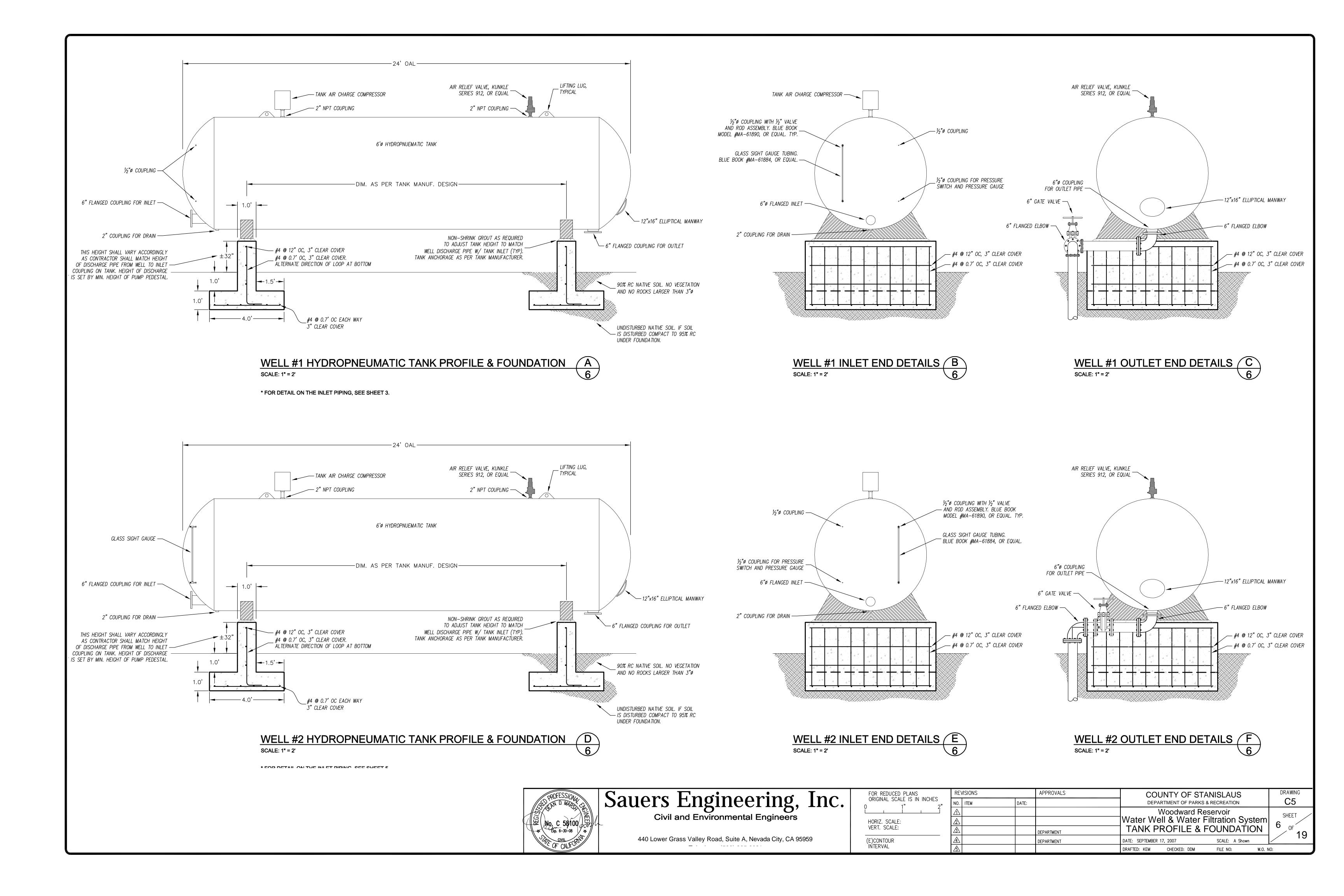
RE	ISIONS		APPROVALS	COUNTY OF S	COUNTY OF STANISLAUS					
NO.	ITEM	DATE:		DEPARTMENT OF PARK	DEPARTMENT OF PARKS AND RECREATION					
$\Delta$							SHEET			
Æ				WOODWARD	WOODWARD RESERVOIR					
⋬			DEPARTMENT	WATER WELL AND WATER	WATER WELL AND WATER FILTRATION SYSTEM					
<b>A</b>			DEPARTMENT	DATE: SEPTEMBER 17, 2007	SCALE:		<sup>*</sup> 19			
∕\$∖				DRAFTED: CHECKED:	FILE NO:	W.O. N	10:			

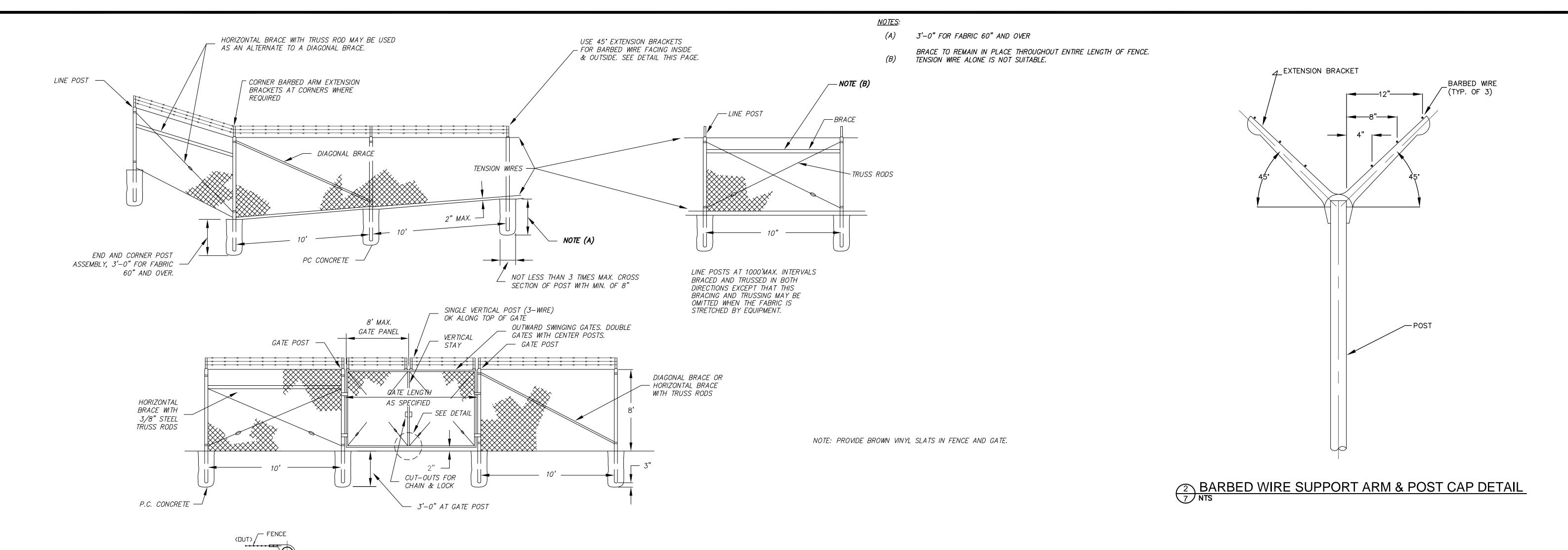


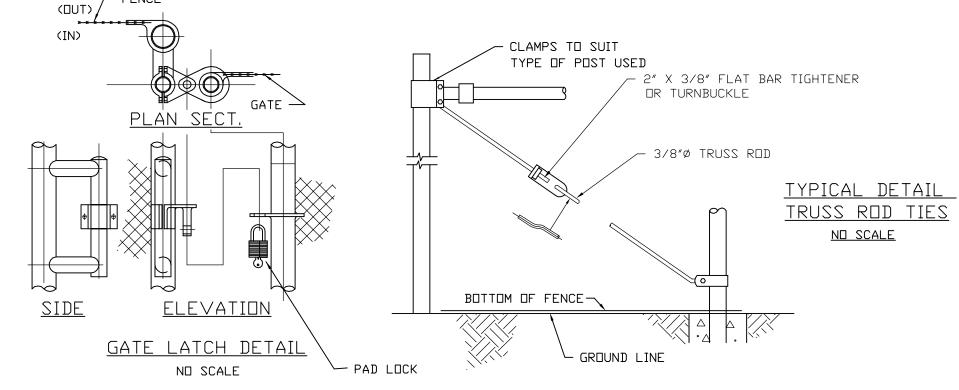












TYPICAL MEMBER DIMENSIONS										
FENCH	LINE POSTS			END,LAT	CH & CORNE	R POSTS	BRACES			
HEIGHT	ROUND (I.D.)	#_	ROLL FORMED	ROUND (I.D.)	ROLL FO	RMED	ROUND (I.D.)	Н	ROLL FO	RMED
OVER 6'	2"	2-4"x2"	2"x1-4"	$2"x2-\frac{1}{2}"$	3 2"x3-2"	2"x1-4"	1-4"	1- <u>2</u> "x1- <u>1</u> 6"	5 1-8"x1-4"	$\frac{3}{1-4}$ "x1=4"

#### NOTES:

- 1. THE TABLE ABOVE SHOWS EXAMPLES OF POST AND BRACE SECTIONS WHICH MAY COMPLY
- WITH THE SPECIFICATIONS.
  2. SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH THE STRENGTH REQUIREMENTS
- AND OTHER PROVISIONS OF THE SPECIFICATIONS.

  3. OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.

OF MEETING SNOW LOAD CONDITIONS.

- 4. DIMENSIONS SHOWN ARE NOMINAL.
  5. TYPICAL MEMBER DIMENSIONS AND GATE POST TABLES DETAIL (LSC-28A).
- 5. TYPICAL MEMBER DIMENSIONS AND GATE POST TABLES DETAIL (LSC—28A). 6. CONTRACTOR SHALL SUBMIT CALCULATIONS AND SUBMITTALS SHOWING FENCE & GATE IS CAPABLE

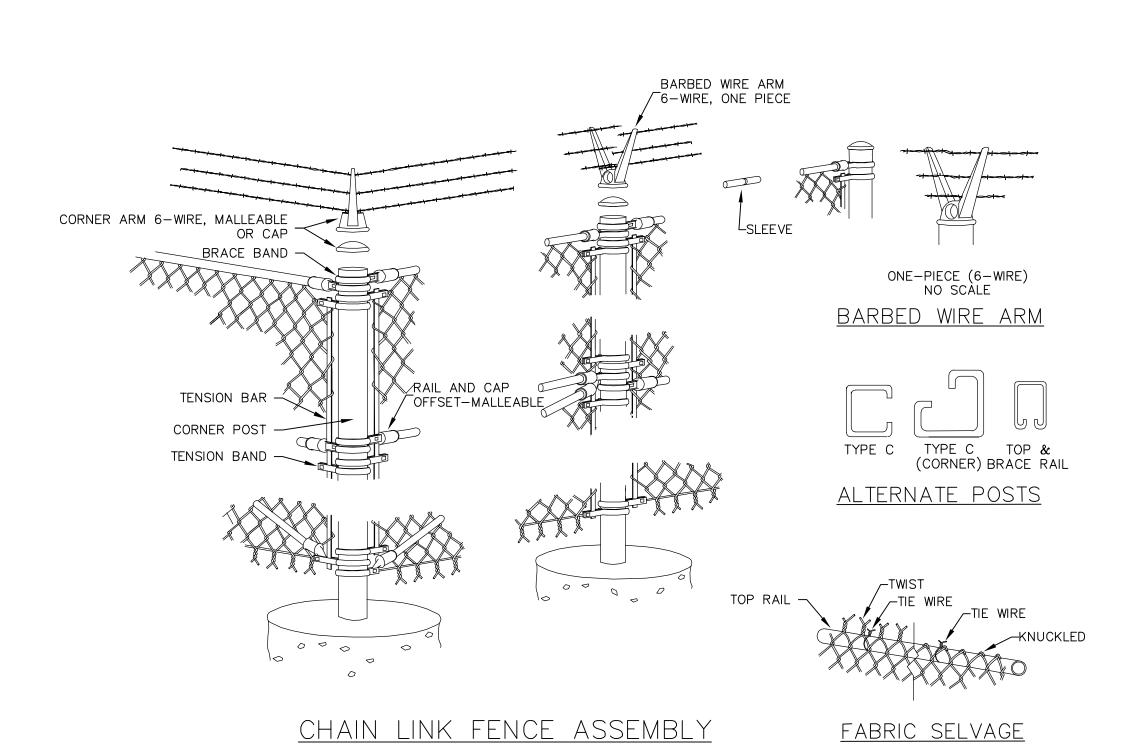
#### PROJECT SPECIFIC NOTES:

FACING OUT AS SHOWN IN DETAIL THIS PAGE.

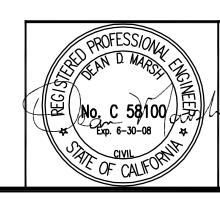
- 1. ALL CHAIN LINK FENCE, GATES, AND POSTS SHALL CONFORM TO THE MATERIALS AND CONSTRUCTION METHODS AS SET FORTH IN SECTION 80 OF THE STATE SPECIFICATIONS AND THE STANDARD DRAWINGS, EXCEPT AS MODIFIED HEREIN.
- 2. ALL POSTS SHALL BE ROUND. ROLL FORMED OR H POSTS SHALL NOT BE ALLOWED.
- 3. FENCE SHALL BE 8 FEET HIGH WITH BARBED WIRE ON SUPPORT ARMS FACING IN AND

GATE POST								
FENCE HEIGHT	GATE WIDTHS	NOMINAL I.D.	WEIGHT PER FOOT					
	UP THRU 6'	3"	7.58					
OVER 6'	OVER 6' THRU 12'	5 <b>"</b>	14.62					
6'	OVER 12' THRU 18'	6"	18.97					
	OVER 18' TO 24' MAX.	8"	28.55					

NOTE: ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED ON APPROVAL OF ENGINEER.



### CHAIN LINK FENCE DETAIL 8' HIGH, 12' GATE OPENING TO NTS



### Sauers Engineering, Inc

Civil and Environmental Engineers

440 Lower Grass Valley Road, Suite A, Nevada City, CA 95959

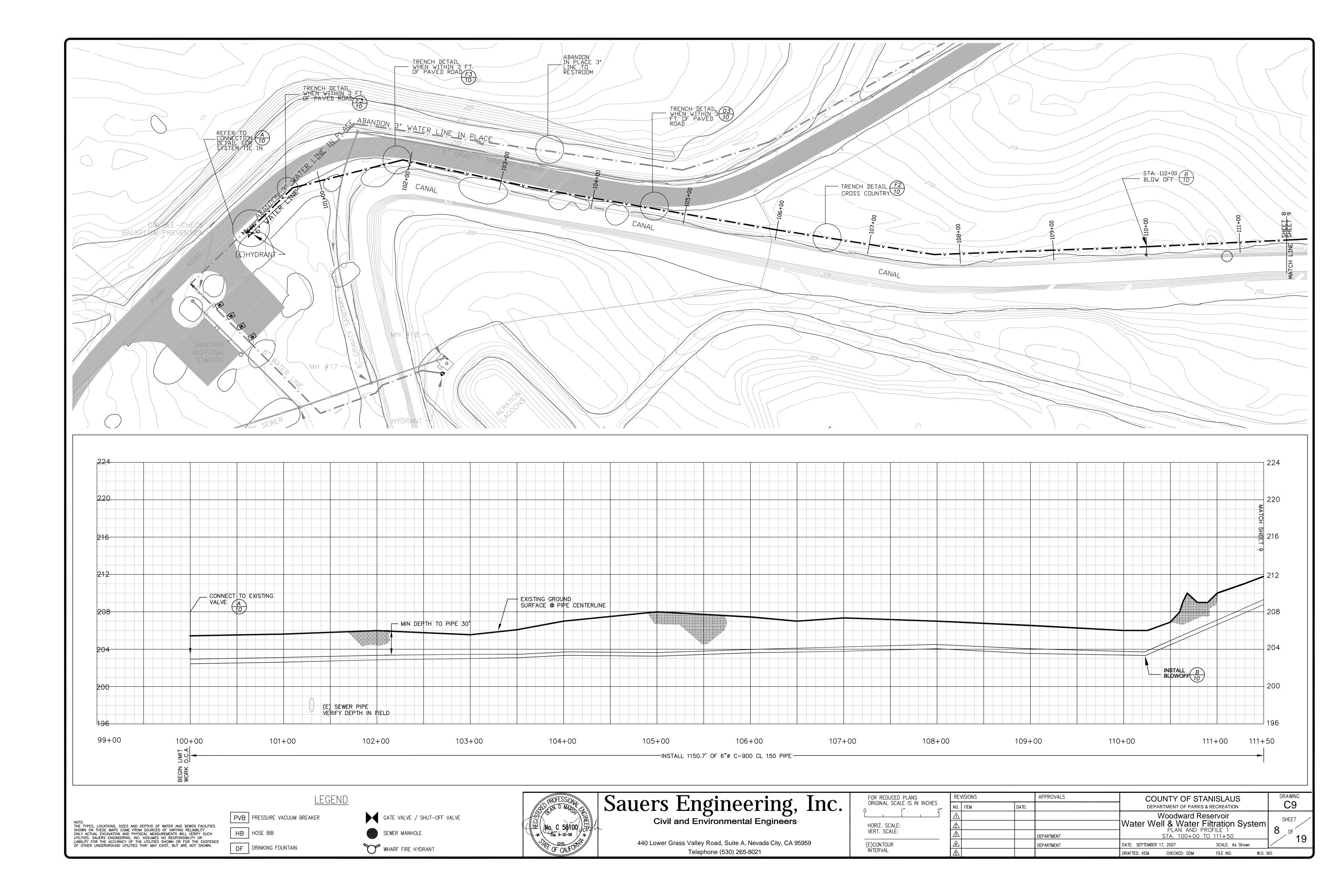
FOR REDUCED PLANS	RE۱	REVISION:		
ORIGINAL SCALE IS IN INCHES	NO.	ITEM		
	$\triangle$			
HORIZ. SCALE:	<u>^</u>			
VERT. SCALE:	<u>\$</u>			
(E)CONTOUR INTERVAL	4			
INTERVAL	A			

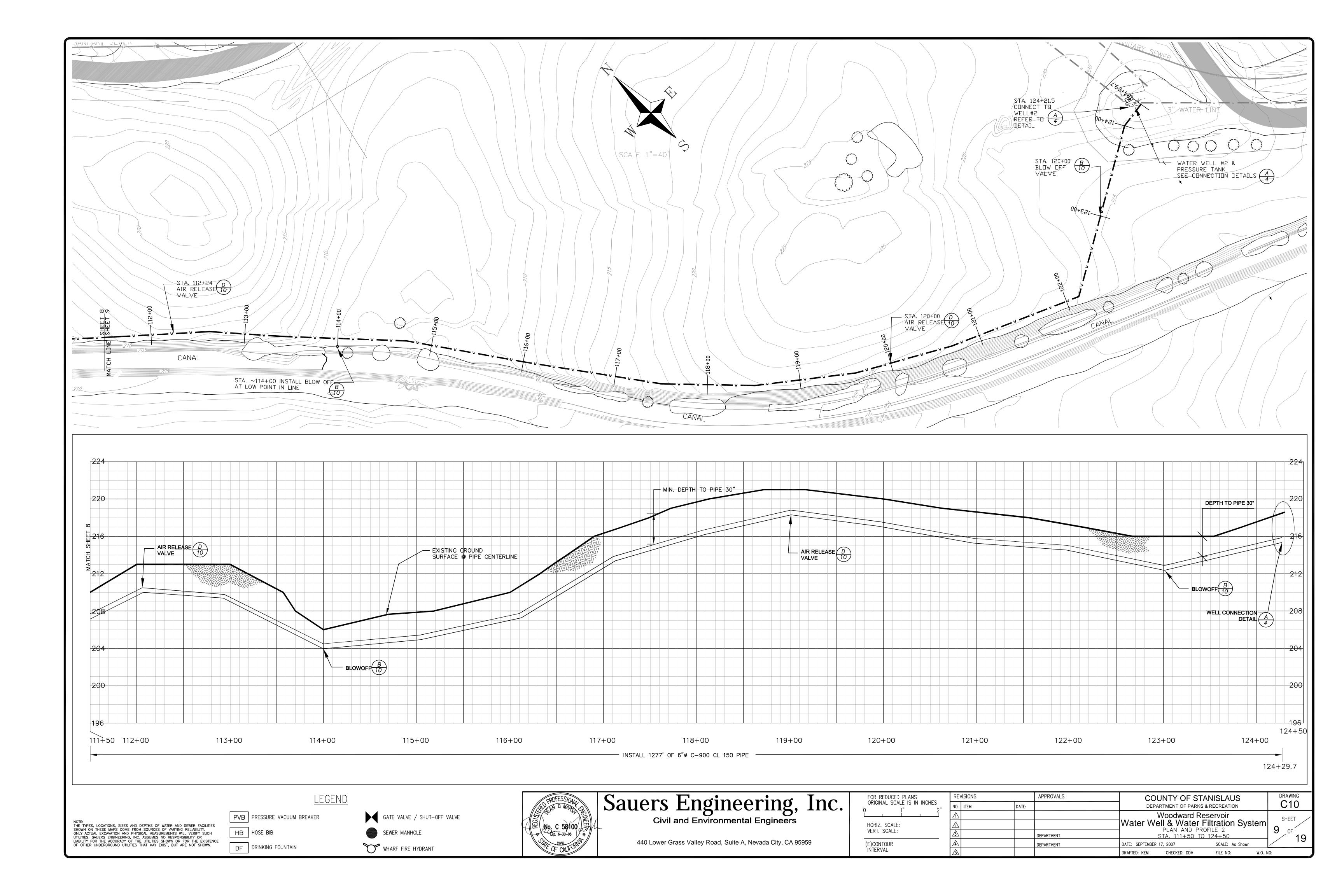
W/ONE-PIECE BARBED WIRE ARM (6-WIRE)

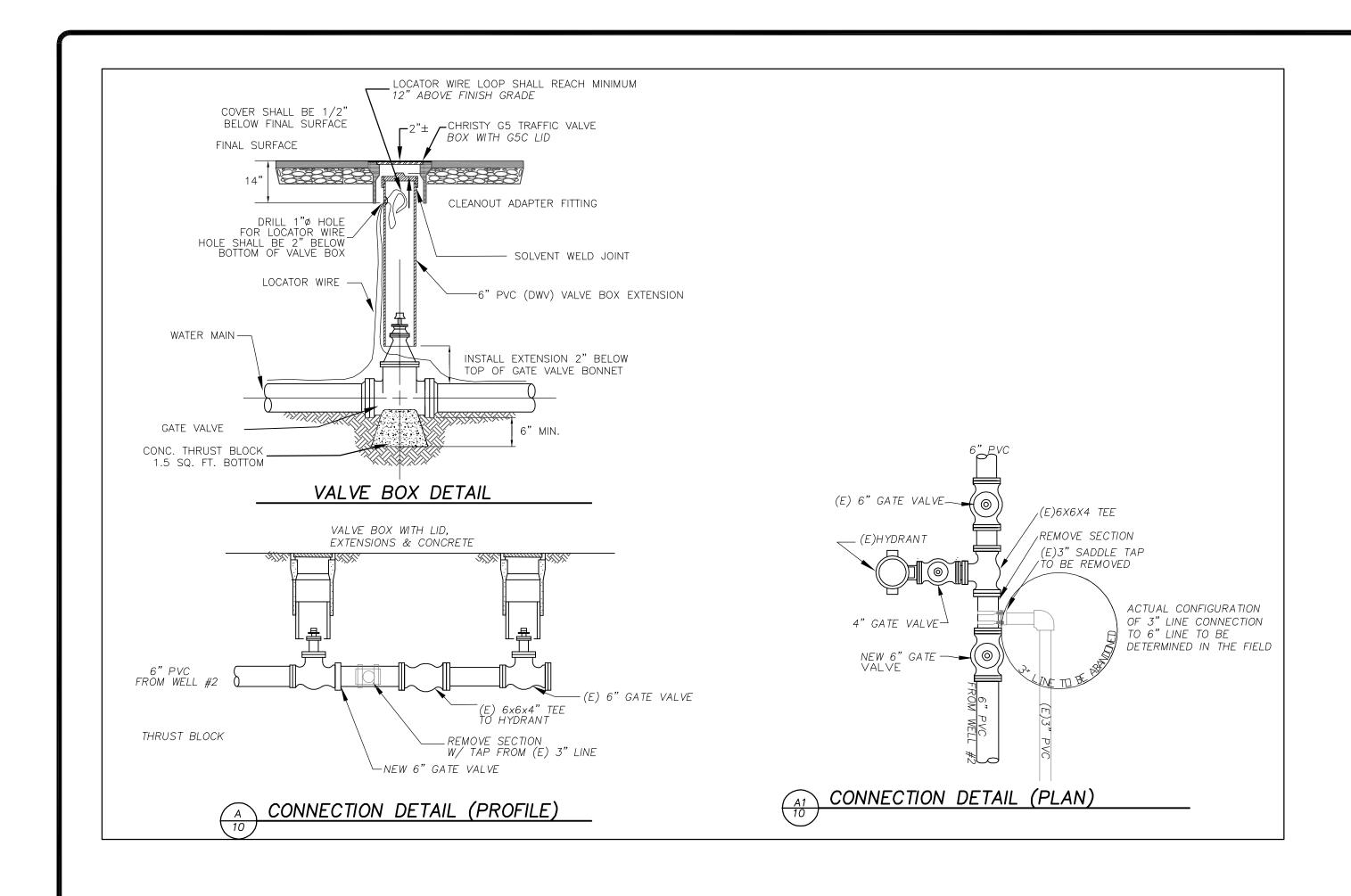
NO SCALE

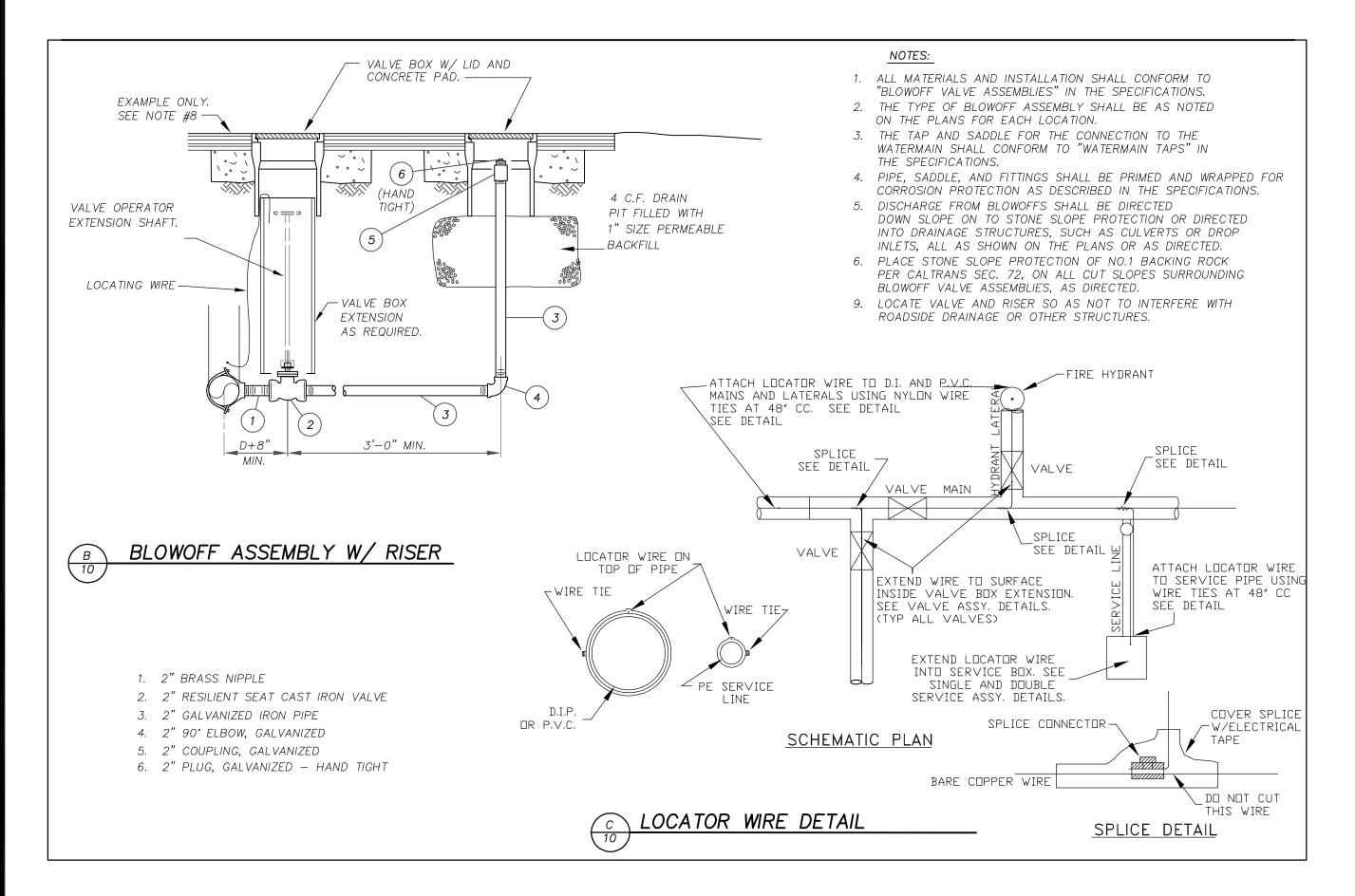
REVISIONS				APPROVALS	COU		DRAWING <b>C6</b>				
	NO.	ITEM	DATE:		1	DEPARTMENT OF PARKS & RECREATION					
	$\triangle$					Woodward Reservoir					
	2				]Water Wel	I & Water Fil	& Water Filtration System				
	<u>\$</u>			DEPARTMENT	CHAIN	CHAIN LINK FENCE DETAILS					
	4			DEPARTMENT	DATE: SEPTEMBER 17	DATE: SEPTEMBER 17, 2007 SCALE: A Shown			/ 19		
	<u>/</u> 5\				DRAFTED: KEM	CHECKED: DDM	FILE NO:	W.O. N	10:		

NO SCALE



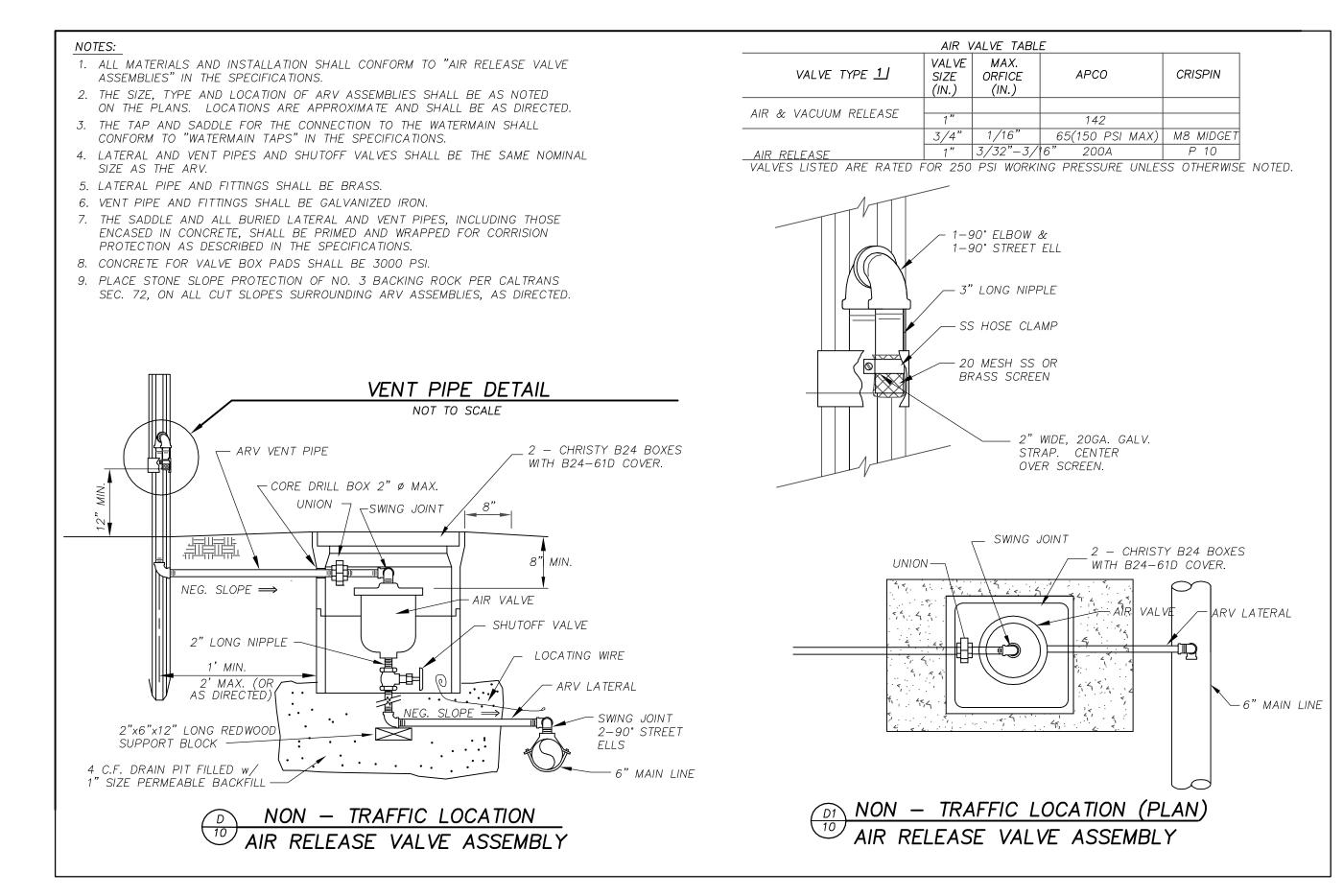






SEWER MANHOLE

WHARF FIRE HYDRANT

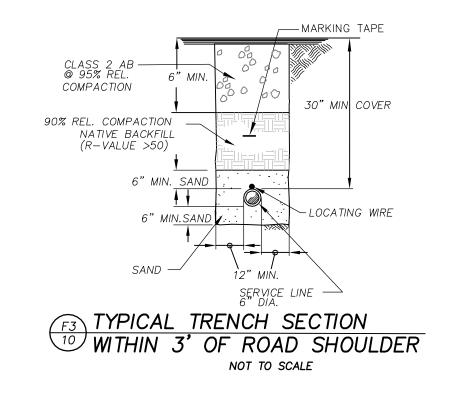


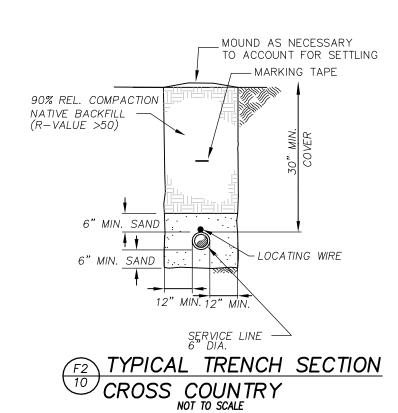
REQUIRED BEARING AREA—TOTAL SQUARE FEET								
1	PE OF	90° BEND	45° BEND	11 1/4° OR 22 1/2° BEND	TEE OR DEAD END	TEE	CROSS EE STUB OUT DET	CROSS
	INSTALLATION							
	4,,	2	1	1	2	2	2	2
PIPE	6"	4	2	1	3	4	4	4
90	8"	7	4	2	5	7	7	7
SIZE	10"	12	6	3	8	12	12	12
	12"		10	5	12	16	16	16
	14"	22	11	6	17	22	22	22
NO	NOTES: (1) THRUST BLOCKS TO BE CONSTRUCTED OF CLASS "B" CONCRETE.  (2) AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150  P.S.I. IN SOIL WITH 2,000 P.S.F. BEARING CAPACITY.  (3) BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.  (4) JOINTS TO BE KEPT CLEAR OF CONCRETE.							

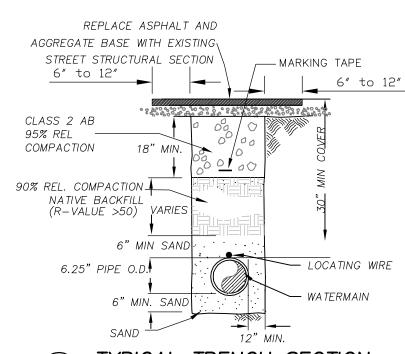
#### NOTES:

- 1. PROVIDE 95% COMPACTION IN 8" LAYERS FOR THE ENTIRE DEPTH OF TRENCH
- 2. PONDING OR JETTING WILL NOT BE ALLOWED
- 3. COMPACTION TEST SHALL BE PERFORMED BY CONTRACTOR AND BE SUBMITTED TO 4. (AND APPROVED BY) COUNTY INSPECTOR PRIOR TO PAVING. TEST TO BE PERFORMED USING CAL TRANS TEST METHOD NO. 216 AND NO. 231.
- IF SOIL R-VALUE IS LESS THAN 50, USE CLASS 2 AB VS NATIVE MATERIAL. R-VALUE TEST REPORTS MUST BE PROVIDED AT TRENCH LOCATIONS.
- ALL PIPES, INCLUDING, BUT NOT LIMITED TOSTORM, WATER, GAS, SEWER, CULVERTS AND LATERALS SHALL BE A MINIMUM OF 30" BELOW SUB GRADE AT EDGE OF PAVEMENT.
- 8. TRENCHES 5' OR MORE IN DEPTH MUST BE SHORED OR PROTECTED IN ACCORDANCE WITH CAL OSHA AND OTHER STATE AND FEDERAL SAFETY CODES, REGULATIONS, AND ORDINANCES
- 9. USE A SAND BEDDING DEPTH OF AT LEAST 6" FOR STABLE SOIL FOUNDATIONS, 12"
- ABOVE ROCK FOUNDATIONS AND 18" OR MORE ABOVE UNSTABLE FOUNDATIONS. 10. IF EDGE OF TRENCH IS LESS THAN 3' FROM EDGE OF LANE, THEN OVERLAY THE TRENCH WITH
- 1" OF AC. 11. NATIVE BACKFILL SHALL BE SCREENED AND SHALL NOT INCLUDE ANY ORGANICS OR ROCKS OVER 3" IN DIAMETER.









TYPICAL TRENCH SECTION WITHIN ROADWAY

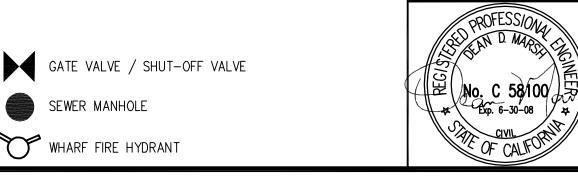
<u>LEGEND</u>

NOTE:
THE TYPES, LOCATIONS, SIZES AND DEPTHS OF WATER AND SEWER FACILITIES SHOWN ON THESE MAPS COME FROM SOURCES OF VARYING RELIABILITY.
ONLY ACTUAL EXCAVATION AND PHYSICAL MEASUREMENTS WILL VERIFY SUCH UTILITIES. SAUERS ENGINEERING, INC. ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE ACCURACY OF THE UTILITIES SHOWN OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES THAT MAY EXIST, BUT ARE NOT SHOWN.

PVB | PRESSURE VACUUM BREAKER

HB HOSE BIB

DF DRINKING FOUNTAIN



Civil and Environmental Engineers

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) L	FOR REDUCED ORIGINAL SCAL	 	•	INCHES 2'	
	HORIZ. SCALE: VERT. SCALE:				

(E)CONTOUR

`IŃTERVAL

RE'	VISIONS		APPROVALS	COUNTY OF STANISLAUS	DRAWING
NO.	ITEM	DATE:		DEPARTMENT OF PARKS & RECREATION	C11
$\triangle$				Woodward Reservoir	SHEET
2				Water Well & Water Filtration System	em 10
3			DEPARTMENT	PIPELINE DETAILS	10 OF 10
4			DEPARTMENT	DATE: SEPTEMBER 17, 2007 SCALE: As Shown	
<u>\$</u>				DRAFTED: KEM CHECKED: DDM FILE NO:	W.O. NO:



MS MOTION SENSOR

SV SOLENOID VALVE

PE PHOTOELECTRIC SENSOR

LIMIT SWITCH

PIT PRESSURE INDICATOR TRANSMITTER

<u>SYMBOL</u>	DESCRIPTION
•	LIMIT SWITCH, NORMALLY CLOSED
0—16	LIMIT SWITCH, NORMALLY OPEN
<b>~</b> °	LIMIT SWITCH, NEUTRAL POSITION
T.O.	TIME DELAY OPEN CONTACT, NORMALLY CLOSED TIME OPEN
T.C.	TIME DELAY CLOSE CONTACT, NORMALLY OPEN TIME CLOSE
<b>~</b>	FLOAT SWITCH
~ <b>_</b>	PRESSURE SWITCH
	DISCONNECT SWITCH
6 6	PUSH BUTTON, NORMALLY OPEN OR MOMENTARILY CLOSED
<u>•   •</u>	PUSH BUTTON, NORMALLY CLOSED OR MOMENTARILY OPEN
• <u>†</u> •	TEMP. SENSOR, NORMALLY OPEN
	WHITE PILOT LIGHT, PUSH TO TEST
	GREEN PILOT LIGHT, PUSH TO TEST
PIT	RED PILOT LIGHT, PUSH TO TEST
abla	FLOOD LIGHTS
ES >	ELECTRIC SUPPLY OR AIR SUPPLY
M	MOTOR
T	TRANSFORMER
$\square$	SIGNAL CONVERTER
0	LIGHT FIXTURE
0	LIGHT FIXTURE WITH BATTERY BACK-UP

<u>ABBRE VIATION</u>	<u>DESCRIPTION</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>	<u>ABBREVIATION</u>	<u>DESCRIPTION</u>
А	AMPERES	FM	FLOW METER	(M)	MODIFY	PT	POTIENTIAL TRANSFORMER
AFF	ABOVE FINISHED FLOOR	FLP	FAIL LAST POSITION	MCC	MOTOR CONTROL CENTER	PTT	PUSH TO TEST
AC	ALTERNATING CURRENT	FO	FAIL OPEN	MCP	MOTOR CIRCUIT PROTECTOR	PV	PROCESS VARIABLE
Al	PLC ANALOG INPUT	FS	FLOAT SWITCH	MH	MANHOLE	RSC	RIGID STEEL CONDUIT
АО	PLC ANALOG OUTPUT			MOV	MOTOR OPERATED VALVE	RTU	REMOTE TELEMETRY UNIT
ATS	AUTOMATIC TRANSFER SWITCH	FVC	FULL VOLTAGE CONTACTOR	MΤ	EMPTY CONDUIT WITH NYLON PULL CORD	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
BB	BACKBOARD	FVNR	FULL VOLTAGE NON REVERSING	MUX	MULTIPLEXER	RVSSS	REDUCED VOLTAGE SOLID STATE STARTER
BC	BARE COPPER	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MTS	MANUAL TRANSFER SWITCH	SPECBL	SPECIALTY CABLE
BW	BACKWASH CLOSE	GEN	GENERATOR	N	NEUTRAL	SV	SOLENOID VALVE
С		G, GND	GROUND	(N)	NEW	SW	SWITCH
C	CONDUIT	HTR	HEATER	NP	NAMEPLATE	SWBD	SWITCHBOARD
СВ	CIRCUIT BREAKER	HPS	HIGH PRESSURE SODIUM				
COMP	COMPRESSOR	1	INTERLOCK	0	OPEN	TB	TERMINAL BOX
CP	CONTROL PANEL	1/1	CURRENT TO CURRENT DEVICE	OL	OVERLOAD DEVICE	TELCO	TELEPHONE CO.
CPT	CONTROL POWER TRANSFORMER	I/E	CURRENT TO VOLTAGE DEVICE	PB	PULLBOX	TDD, TDE	TIME DELAY RELAY
CR CT	CONTROL RELAY	1/0	INPUT/OUTPUT	PB1	PUSHBUTTON 1	TM	THERMAL MAGNETIC CIRCUIT BREAKER
DC	CURRENT TRANSFORMER  DIRECT CURRENT	, I/P	CURRENT TO PRESSURE DEVICE	PC	PROGRAMMABLE CONTROLLER	TWP	TWISTED PAIR
DC	DIRECT CURRENT	INT	INTRUSION	PFR	POWER FAILURE RELAY	TWSP	TWISTED SHIELDED PAIR
		ISR	INTRINSICALLY SAFE RELAY	P/I	PRESSURE TO CURRENT DEVICE	TYP	TYPICAL
DI DET	PLC DIGITAL INPUT DETECTOR	KVA	KILOVOLT AMPERES	PID	PROPORTIONAL, INTEGRATION, DERIVATIVE	UG	UNDERGROUND
DO	PLC DIGITAL OUTPUT			PLC	PROGRAMMABLE LOGIC CONTROLLER	U.O.N.	UNLESS OTHERWISE NOTED
(E)	EXISTING	LA	LIGHTNING ARRESTER	PNL	PANEL		
EF	EXHAUST FAN	LDBNK	LOAD BANK	POC	POINT OF CONNECTION	VAD	VOLTS
		LOS	LOCK OFF STOP PUSH BUTTON	POT	POTENTIOMETER	VAR	VARIOUS
(F)	FUTURE	LPU	LINE PROTECTION UNIT	PR	SHIELDED, PAIR CABLE	VLV	VALVE
FC FAIL CLOSED		mA	MILLIAMPERES	PS	PRESSURE SWITCH	WP XFMR	WEATHERPROOF TRANSFORMER
						VI IAIL/	HAMIOLOMINELL

**ABBREVIATIONS** 

				CO	NDUI	T SC	HEDL	JLE				
		CONDUIT					NO	CKT	CKT	GND	GND	
CONDUIT		RUN	RUN	EQUIP	CKT	CKT	CKT	TYPE	WIRE	TYPE	WIRE	NOTES
NUMBER	SIZE	FROM	TO	SERVED	TYPE	VOLTS	WIRES	WIRE	SIZE	WIRE	SIZE	
P101A	4	SWITCHBOARD	XFMR	WELL PUMP	Р	480	1	Pullrope				CONDUIT PER PG&E REQUIREMENTS
P102A	2	SWBD/MTS	GEN RECPT	WELL PUMP	Р	480	4	THWN	3/0	THWN	4	GENERATOR POWER CONDUIT
P103A	1-1/2	SWBD/MCC	WELL PUMP	WELL PUMP	Р	480	3	THWN	4	THWN	6	VIA JUNCTION BOX
C103B	3/4	SWBD/MCC	WELL PUMP	WELL PUMP	С	120	6	THWN	14	THWN	14	WELL PUMP STATUS & SV CONTROL
P103D	3/4	SWBD/MCC	RECPT.	CHEM SYSTEM	Р	120	4	THWN	12	THWN	12	CHEM PUMP RECEPTACLE
P104A	1	SWBD/MCC	STUB OUT	FUTURE	Р	480	1	Pullrope				CAP — FOR FUTURE USE
X105A	1	SWBD/PNL A	FLOWMETER	FUTURE	Р	120	1	Pullrope				CAP — FOR FUTURE USE
P106A	1	SWBD/PNL A	COMP CNTL	WELL PUMP	Р	120	2	THWN	10	THWN	12	CAP — FOR FUTURE USE
C106B	3/4	SWBD/MCC	COMP CNTL	WELL PUMP	С	120	4	THWN	14	THWN	14	PUMP CALL SIGNAL
C106C	3/4	SWBD/DIALER	PSL	WELL PUMP	С	120	2	THWN	14	THWN	14	LOW PRESSURE SWITCH
T106D	1-1/2	SWBD/DIALER	PULLBOX	WELL PUMP	T	28	1	Pullrope				CAP — FOR FUTURE USE
P201A	(E)	MODIFY, AS REQUIF	RED, TO RE-ROUTE (	CONDUCTORS TO NE	EW MTS							
P202A	2	MTS	(E) 480 V PANEL	WELL PUMP	Р	480	4	THWN	3/0	THWN	4	GENERATOR POWER CONDUIT
P202B	2	MTS	(E) 480 V PANEL	WELL PUMP	Р	480	4	THWN	3/0	THWN	4	GENERATOR POWER CONDUIT
P202C	2	MTS	GEN RECPT	WELL PUMP	Р	480	4	THWN	3/0	THWN	4	GENERATOR POWER CONDUIT
P203A	1-1/4	STARTER	(E) 480 V PANEL	WELL PUMP	Р	480	3	THWN	6	THWN	8	VIA JUNCTION BOX
P203B	1-1/4	STARTER	WELL PUMP	WELL PUMP	Р	480	3	THWN	6	THWN	8	VIA JUNCTION BOX
C203C	3/4	STARTER	WELL PUMP	WELL PUMP	С	120	6	THWN	14	THWN	14	WELL PUMP STATUS & SV CONTROL
X205A	1	(E) PANEL	FLOWMETER	FUTURE	Р	120	1	Pullrope				CAP — FOR FUTURE USE
P206A	1	(E) PANEL	DIALER	WELL PUMP	Р	120	2	THWN	10	THWN		DIALER POWER
C206B	3/4	STARTER	DIALER	WELL PUMP	С	120	4	THWN	14	THWN		PUMP FAIL SIGNAL
C206C	3/4	PSL	DIALER	WELL PUMP	С	120	2	THWN	14	THWN	14	LOW PRESSURE SWITCH
T206D	1-1/2	DIALER	PULLBOX	WELL PUMP	Т	28	1	Pullrope				CAP — FOR FUTURE USE

IDENTIFIES THE TYPE OF CIRCUIT BEING SERVICED

C= CONTROL

T= TELEPHONE

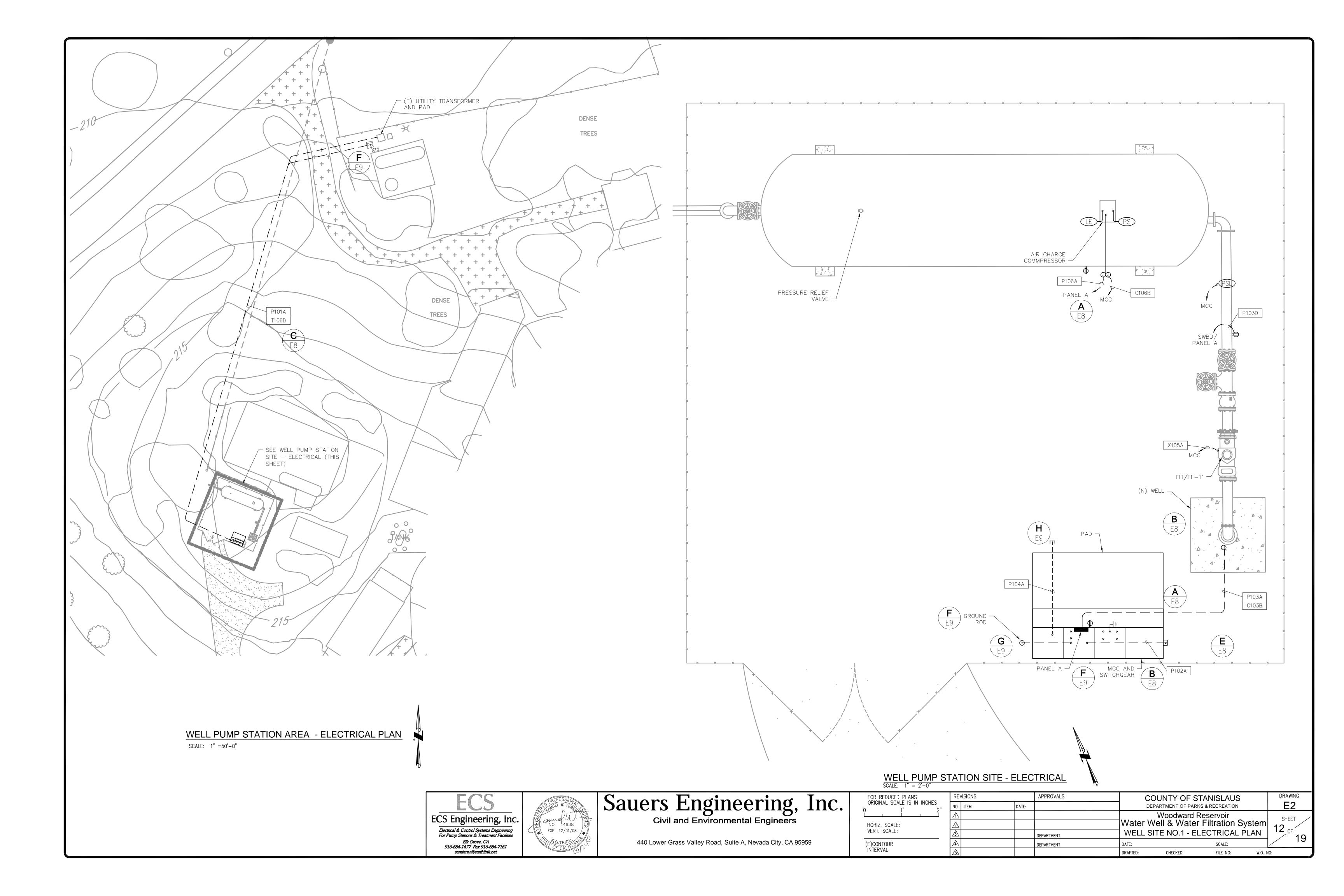
P= POWER X= SPARE

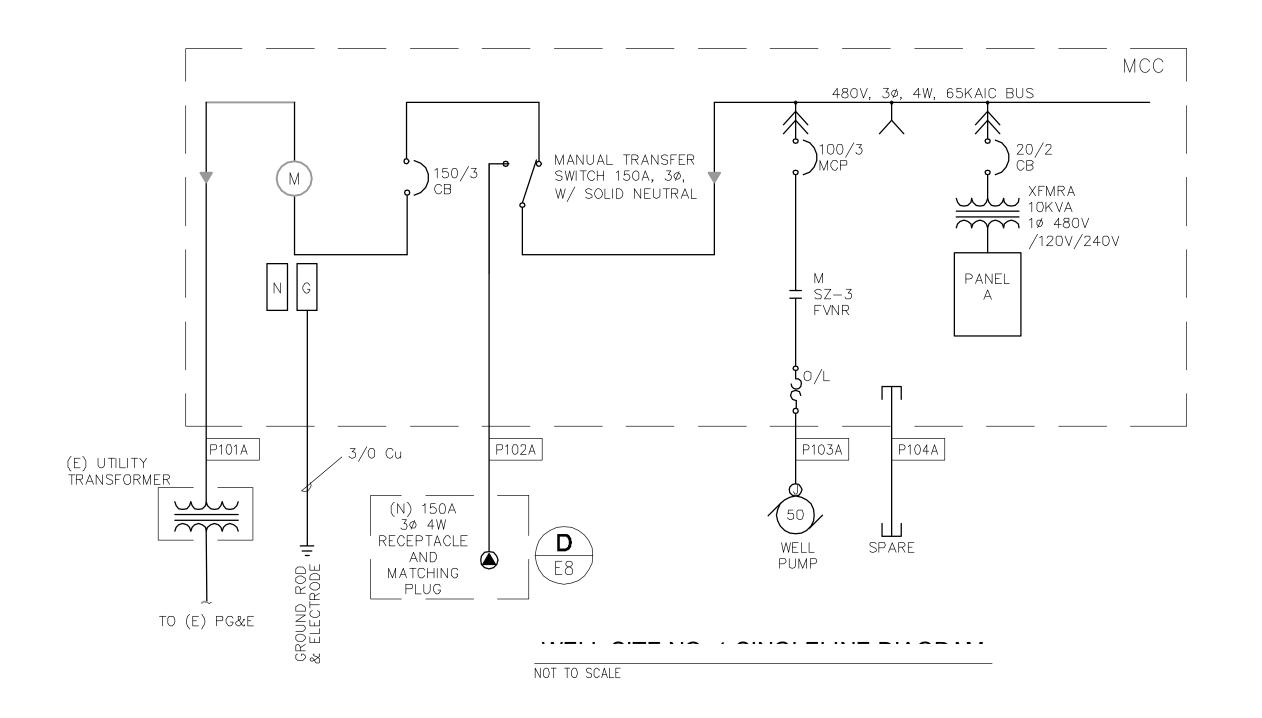
ECS
ECS Engineering, In
Electrical & Control Systems Engineering For Pump Stations & Treatment Facilitie
Elk Grove, CA
916-684-1477 Fax 916-684-7161

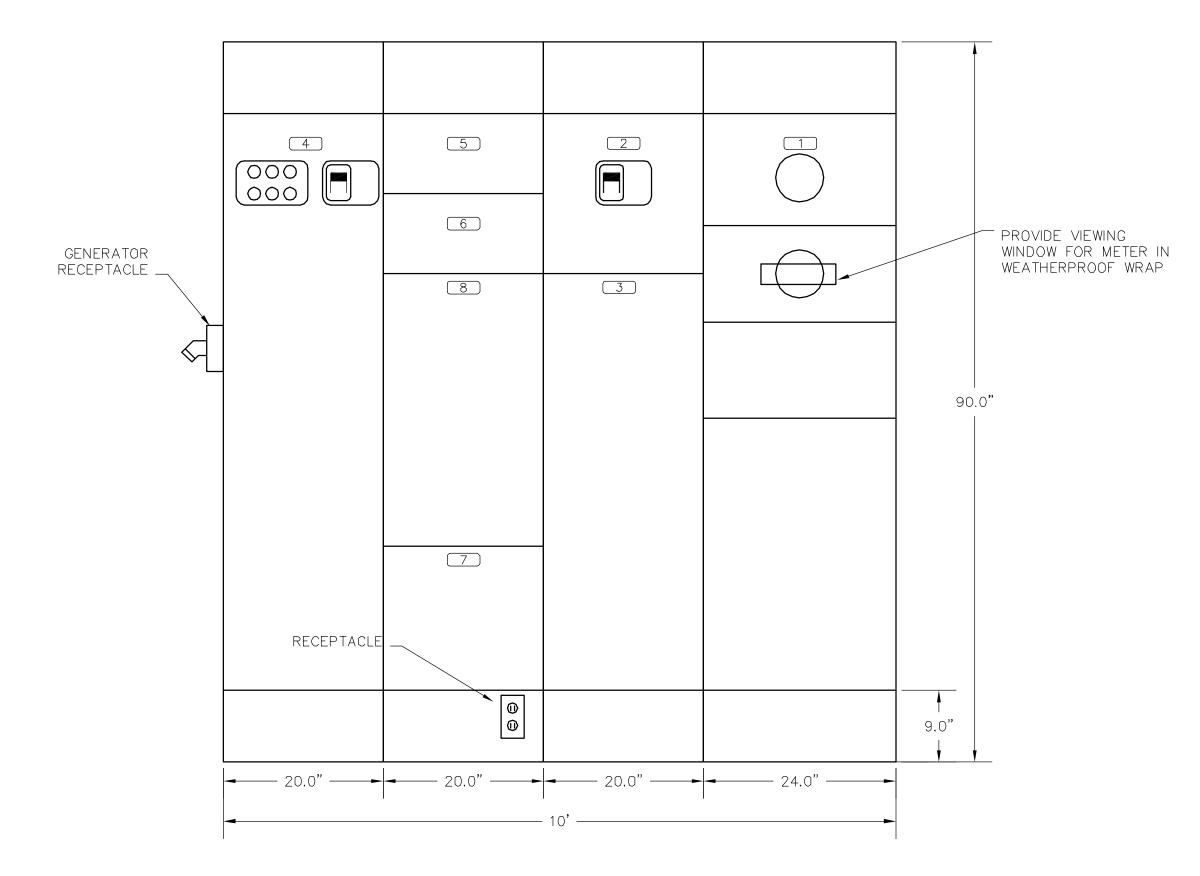
# Sauers Engineering, Inc. Civil and Environmental Engineers

440 Lower Grass Valley Roa	d, Suite A, Nevada City, CA 95959
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FOR REDUCED PLANS	REVISIONS			APPROVALS	COU	COUNTY OF STANISLAUS			DRAWING
ORIGINAL SCALE IS IN INCHES	NO.	ITEM	DATE:		DEPARTMENT OF PARKS & RECREATION		E1		
					Woodward Reservoir				SHEET /
HORIZ. SCALE:	<u>^</u> 2					I & Water Fil	•		11 25
VERT. SCALE:	<u> </u>			DEPARTMENT	SYMBOL	S AND ABBE	REVIATION	S	19 19
(E)CONTOUR	4			DEPARTMENT	DATE:		SCALE:		/ 19
ÎŃTERVAL	<u>\$</u>				DRAFTED:	CHECKED:	FILE NO:	W.O. N	NO:







#### WELL SITE NO. 1 - ELECTRICAL ELEVATION

NEMA 3 NON WALK-IN ENCLOSURE

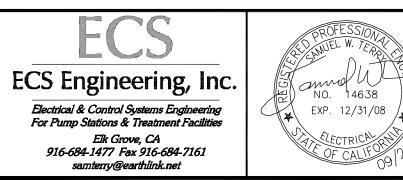
#### LOAD CALCULATION SITE 1 PUMP STATION (480V PANEL) WELL PUMP 65.0 AMPS AUX LOADS 3.0 AMPS 25% OF LARGEST MOTOR 16.3 AMPS TOTAL LOAD (131 KVA)

85.3 AMPS

PANEL A 10 KAIC									
VOLTAGE: 120/240	MOUNTIN	1G: N	1CC						KVA: 3.0
BUS: 100 A	TYPE:	MAIN	CI	3					CURRENT: 15 AMPS
LOAD	KVA	СВ	NO			NO	СВ	KVA	LOAD
AUTODIALER	0.20	20	1	+	+	2	20	1.00	AIR CHARGED SYSTEM
SPARE	0.00	20	3	+	+	4	20		SPARE
SPARE	0.00	20	5	+	+	6	20	0.80	METERING PUMP
SPARE	0.00	20	7	-	$\vdash$	8	20	0.80	METERING PUMP
SPARE	0.00	20	9		+	10	20	0.00	SPARE
SPARE	0.00	20	11	+	+	12	20	0.00	SPARE
SPARE	0.00	20	13	-	$\vdash$	14	20	0.20	SITE RECEPTACLES
SPARE	0.00	20	15		+	16	20/	0.00	SPARE
SPARE	0.00	20	17	+	+	18	/ 2	0.00	SPARE

CIRCUITS WITH MULTIPLE HOME RUNS SHALL BE COMBINED AT THE PANEL BY AN APPROVED MEANS (PER NEC AND UL). WIRES SHALL NOT BE DOUBLE LUGGED INTO CIRCUIT BREAKERS. MAKE AN APPROVED PIG TAIL WITH AN APPROVED/SPECIFIED DEVICE OR METHOD WITHIN THE PANEL AND LUG A SINGLE WIRE INTO CIRCUIT BREAKER.

NAMEPLATE SCHEDULE										
<u>NO.</u>	LETTER SIZE	INSCRIPTION								
1	1/4"	UTILITY METER								
2		MAIN DISCONNECT								
3		MANUAL TRANSFER SWITCH								
4		WELL PUMP								
5		AUTODIALER								
6		SPACE								
7		XFMR "A"								
8		PANEL "A"								
9	•	SPARE								



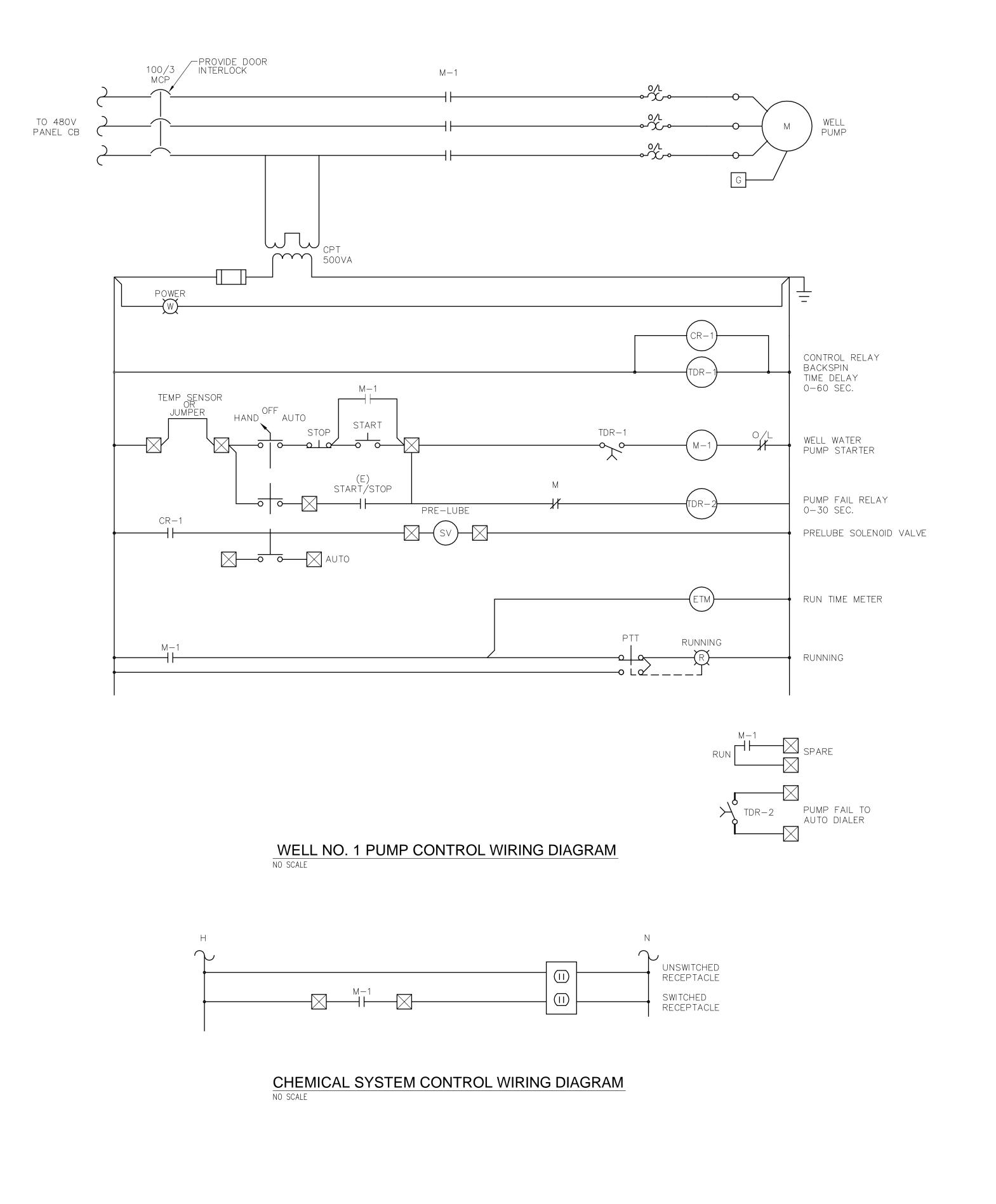
# Sauers Engineering, Inc. Civil and Environmental Engineers

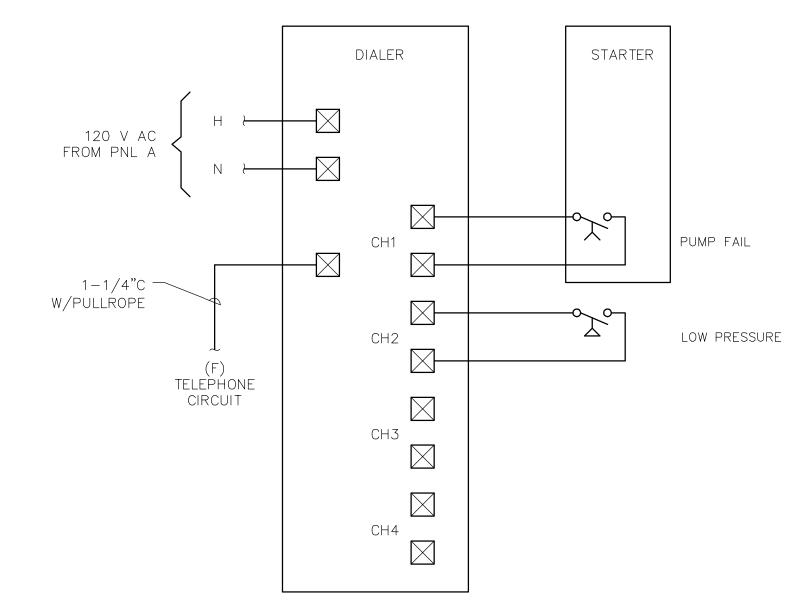
440 Lower Grass Valley Road, S	Suite A, Nevada City, CA 95959

	FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
•	0 1" 2"
	HORIZ. SCALE: VERT. SCALE:

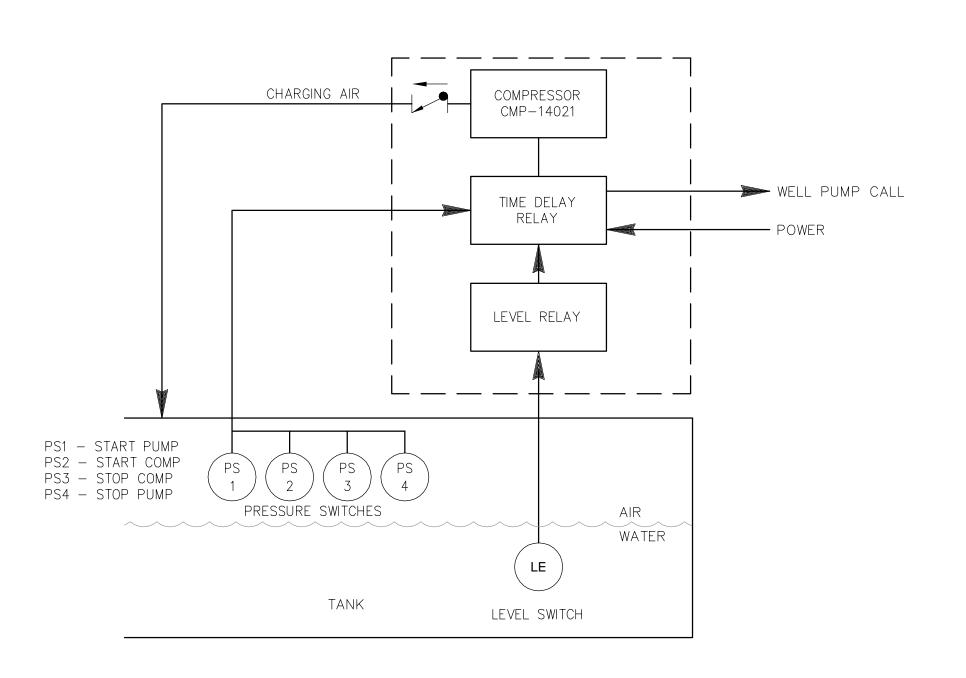
(E)CONTOUR INTERVAL

2 <b>"</b> J	REVIS	SIONS	APPROVALS	CO	COUNTY OF STANISLAUS				
	NO. ITEM DATE:		DATE:		DEPARTMENT OF PARKS & RECREATION				
	$\triangle$					SHEET /			
	2			Water Well & Water Filtration System					
	3		DEPARTMENT	WELL NO.	1 SINGLELINE	E AND ELEVA	TION	15 <sub>OF</sub>	
_	4		DEPARTMENT	DATE:		SCALE:		/ 19	
	<u>\$</u>			DRAFTED:	CHECKED:	FILE NO:	W.O. N	O:	

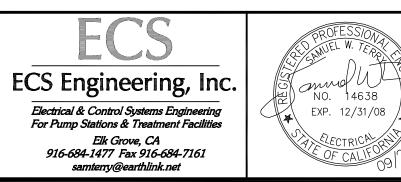




AUTO DIALER CONTROL WIRING DIAGRAM



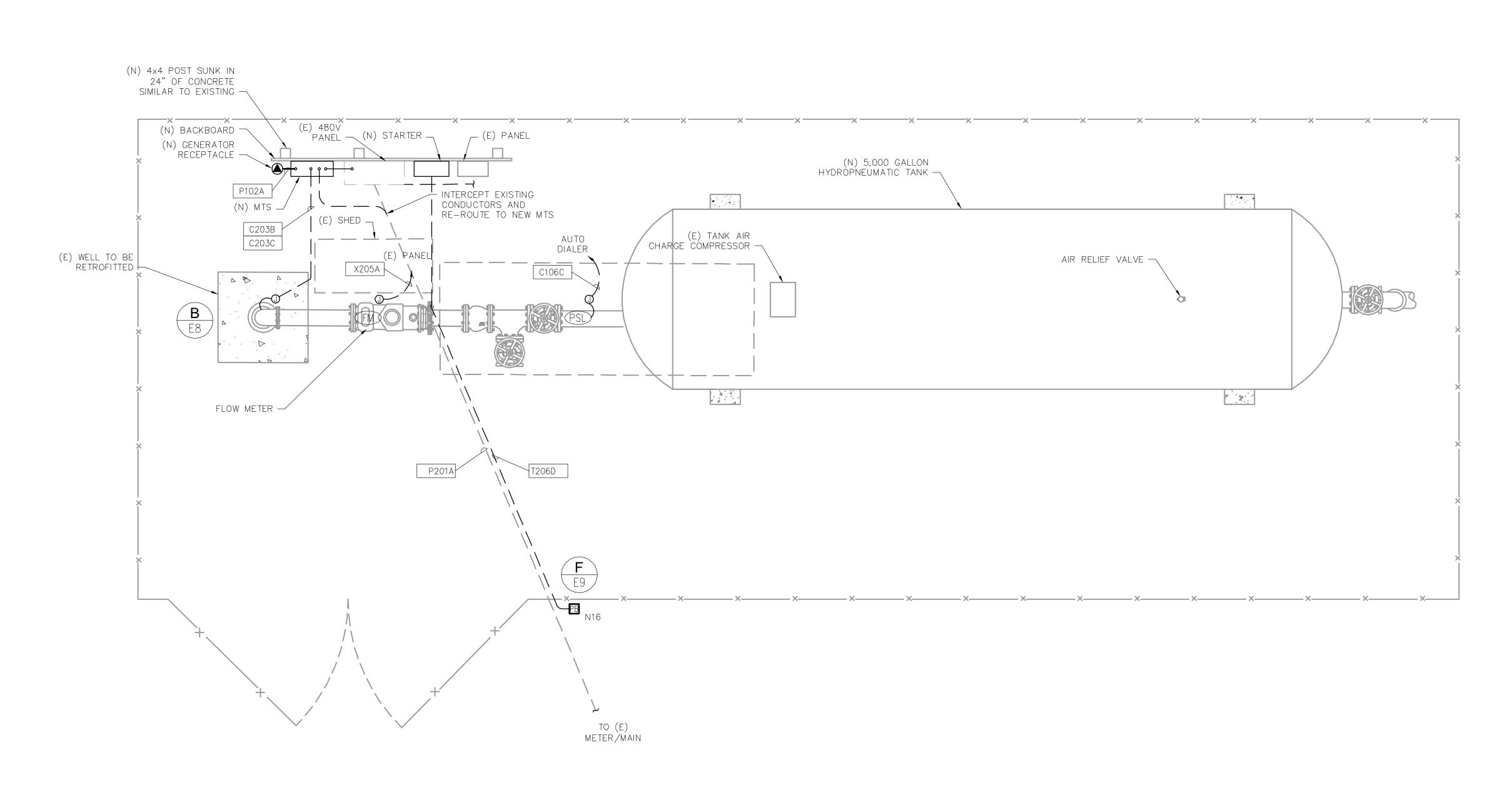
### PUMP/COMPRESSOR CONTROL BLOCK DIAGRAM NO SCALE



# Sauers Engineering, Inc. Civil and Environmental Engineers

FOR REDUCED PLANS	R						
ORIGINAL SCALE IS IN INCHES							
	1						
HORIZ. SCALE:	<u>/2</u>						
VERT. SCALE:	<u> 1</u> 3						
(E)CONTOUR INTERVAL	<u> 4</u>						
INTERVAL	<b>/</b> 5						

RE∖	/ISIONS		APPROVALS	COUNTY OF STANISLAUS	DRAWING
NO.	ITEM	DATE:		DEPARTMENT OF PARKS & RECREATION	E4
$\triangle$				Woodward Reservoir	SHEET
2				Water Well & Water Filtration System	1/
3			DEPARTMENT	WELL SITE NO.1 - CONTROL WIRING DIAGRAM	14 of 19
4			DEPARTMENT	DATE: SCALE:	/ 18
8				DRAFTED: CHECKED: FILE NO: W.O.N	IO·



(E) WELL NO. 2 SITE PLAN - ELECTRICAL SCALE: 1/2" = 1'-0"

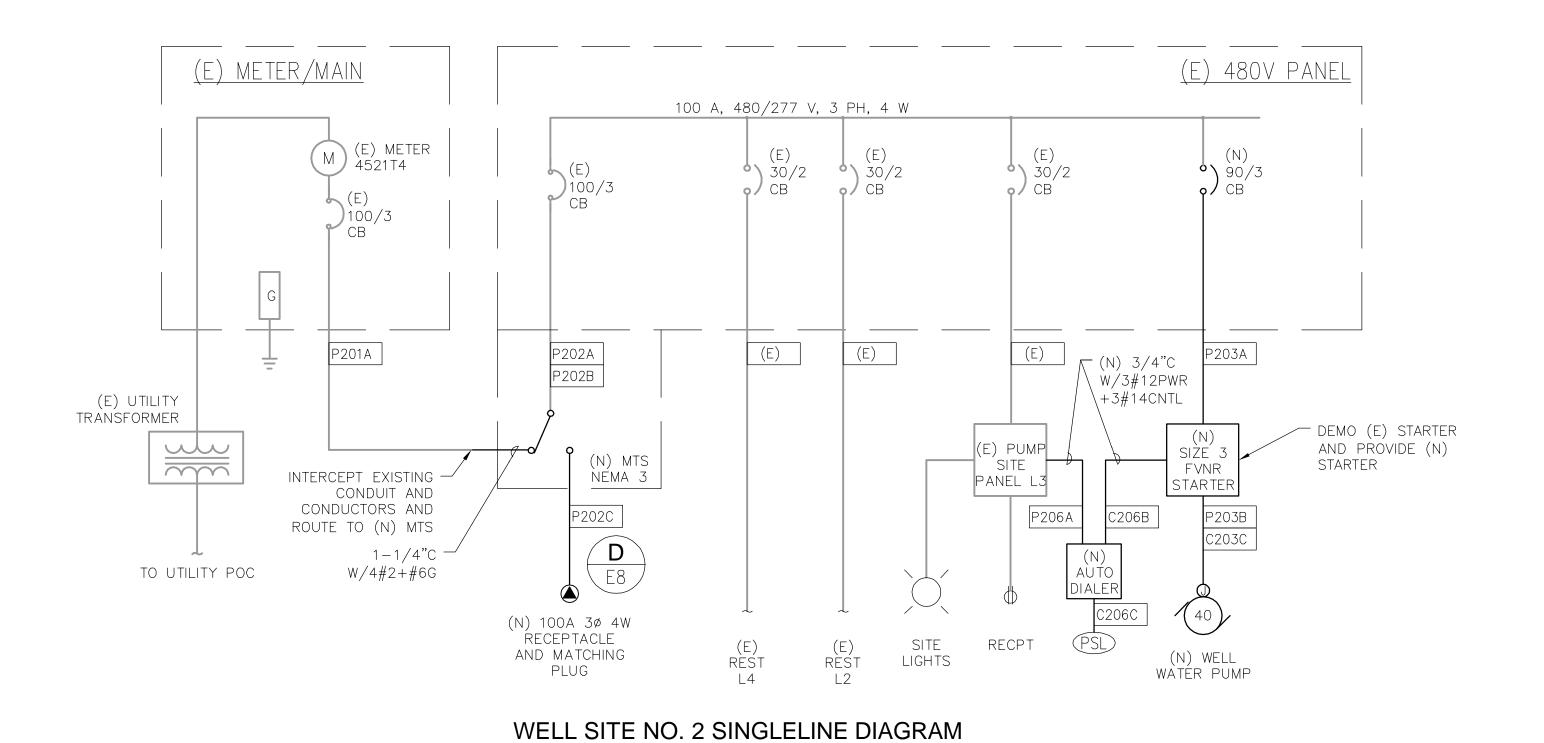






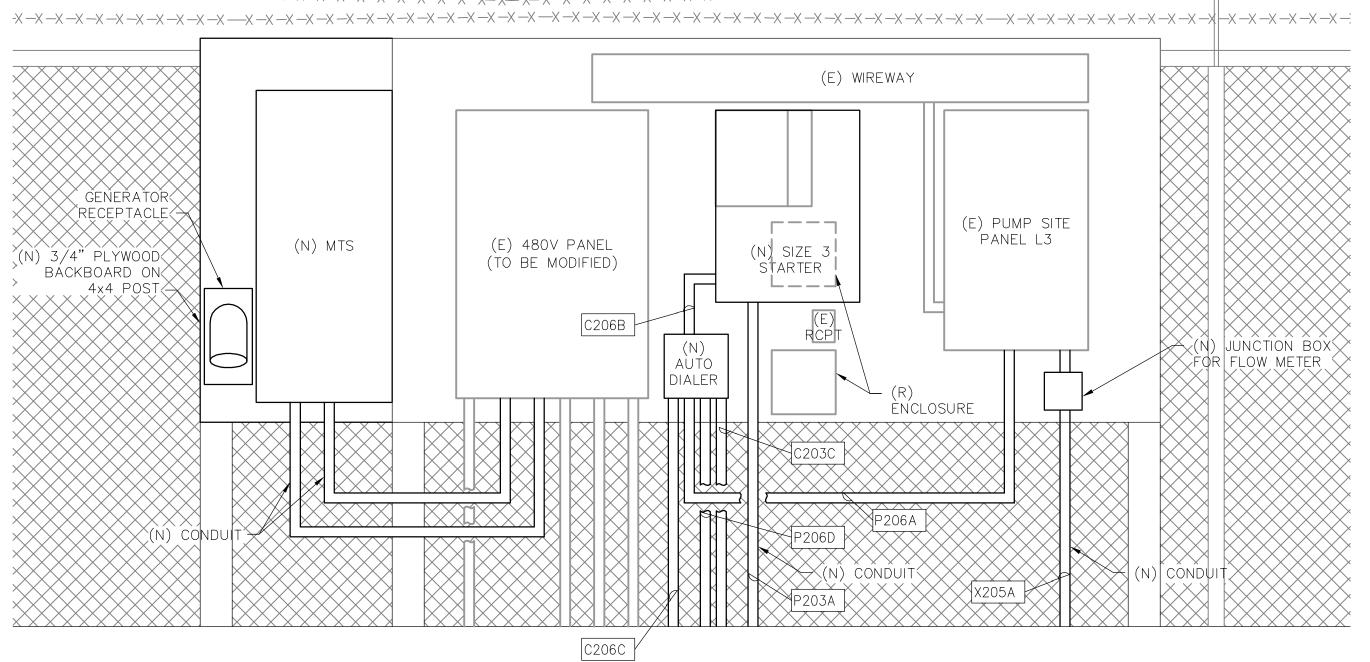
# Sauers Engineering, Inc. Civil and Environmental Engineers

FOR REDUCED PLANS	REVISIONS			APPROVALS	CC	COUNTY OF STANISLAUS			
ORIGINAL SCALE IS IN INCHES	NO.	ITEM	DATE:			DEPARTMENT OF PARKS & RECREATION		E5	
						Woodward Reservoir			
HORIZ. SCALE:	<u>^</u>				∏Water W	ell & Water Fi	Water Filtration System		
VERT. SCALE:	3			DEPARTMENT	WELL SI	15 of 19			
(E)CONTOUR	4			DEPARTMENT	DATE:		SCALE:	19	
ÎNTERVAL	<u>/</u> 5\				DRAFTED:	CHECKED:	FILE NO: W.O.	NO:	

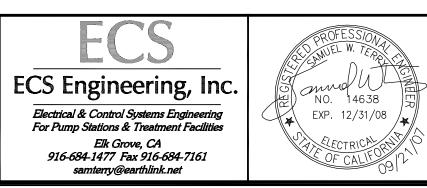


LOAD CALCULATION <u>SITE 2</u> (E) REST L4 4.0 AMPS (E) REST L2 4.0 AMPS (E) PANEL L3 4.0 AMPS WELL WATER PUMP 52.0 AMPS 13.0 AMPS 25% OF LARGEST MOTOR TOTAL LOAD (131 KVA) 77.0 AMPS

MODIFICATIONS SHOWN IN HEAVIER LINE WEIGHT THAN EXISTING



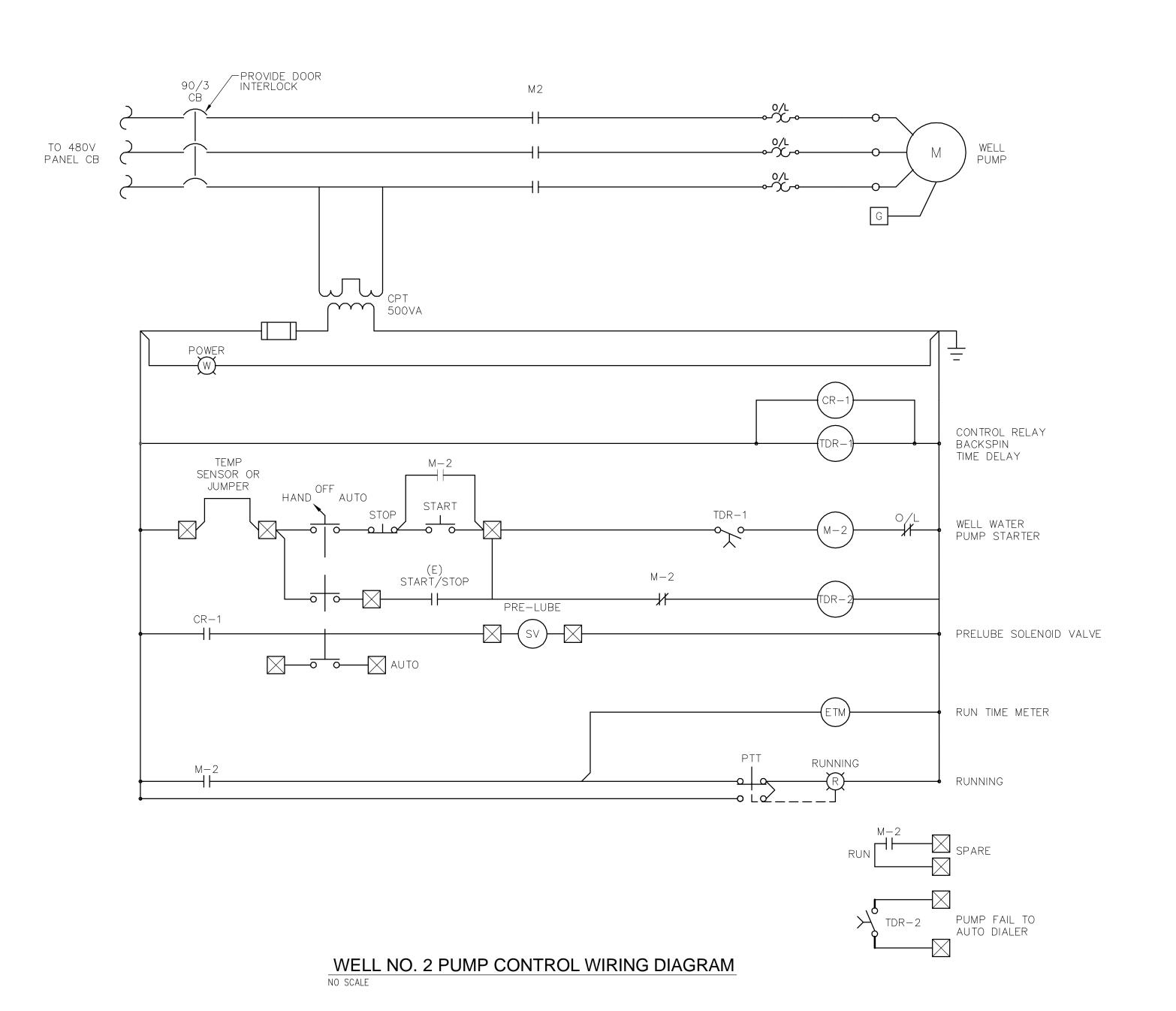
#### WELL SITE NO. 2 - ELECTRICAL ELEVATION MODIFICATIONS SHOWN IN HEAVIER LINE WEIGHT THAN EXISTING

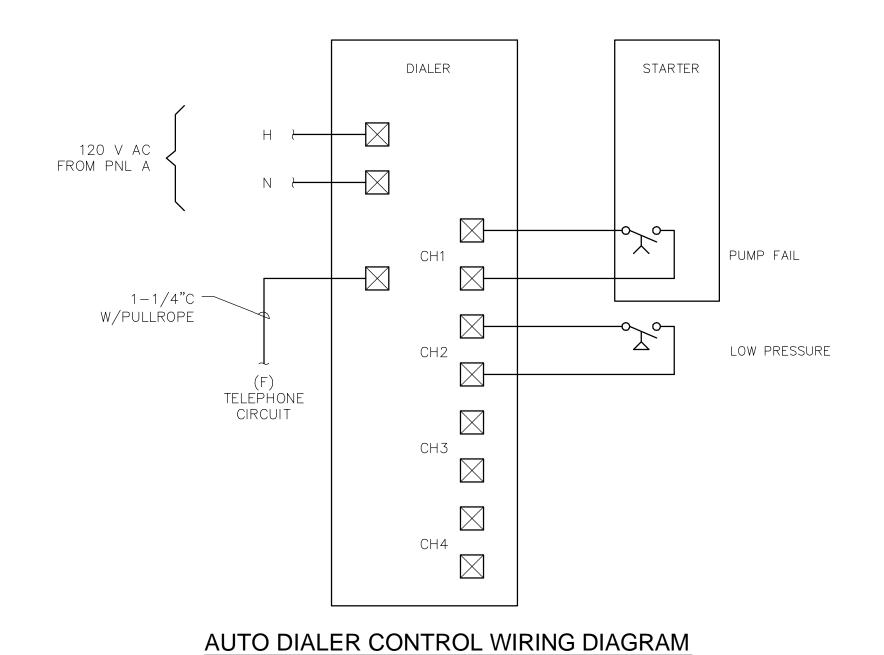


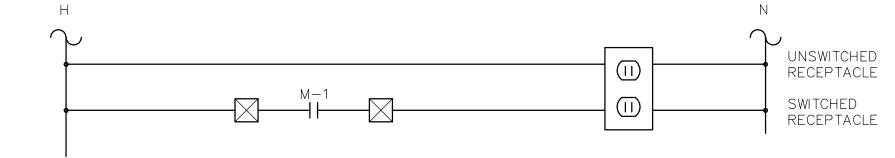
### Sauers Engineering, Inc. Civil and Environmental Engineers

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ORIGINAL SCALE IS IN INCHES	Γ
0 1" 2"	t
HORIZ. SCALE:	Ĺ
VERT. SCALE:	L
(E)CONTOUR	Ĺ
	VERT. SCALE:

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	NO.	ITEM	DATE:		DEPARTMENT OF PARKS & RECREATION				E6
ا ک	$\triangle$					ervoir	SHEET		
	<u> </u>				$\square$ Water Well & Water Filtration Sys		•		16 OF
	⅓			DEPARTMENT	WELL NO.2	ON	10 <sub>OF</sub>		
	4			DEPARTMENT	DATE:		SCALE:		/ 19
	<u>\$</u>				DRAFTED:	CHECKED:	FILE NO:	W.O. N	0:







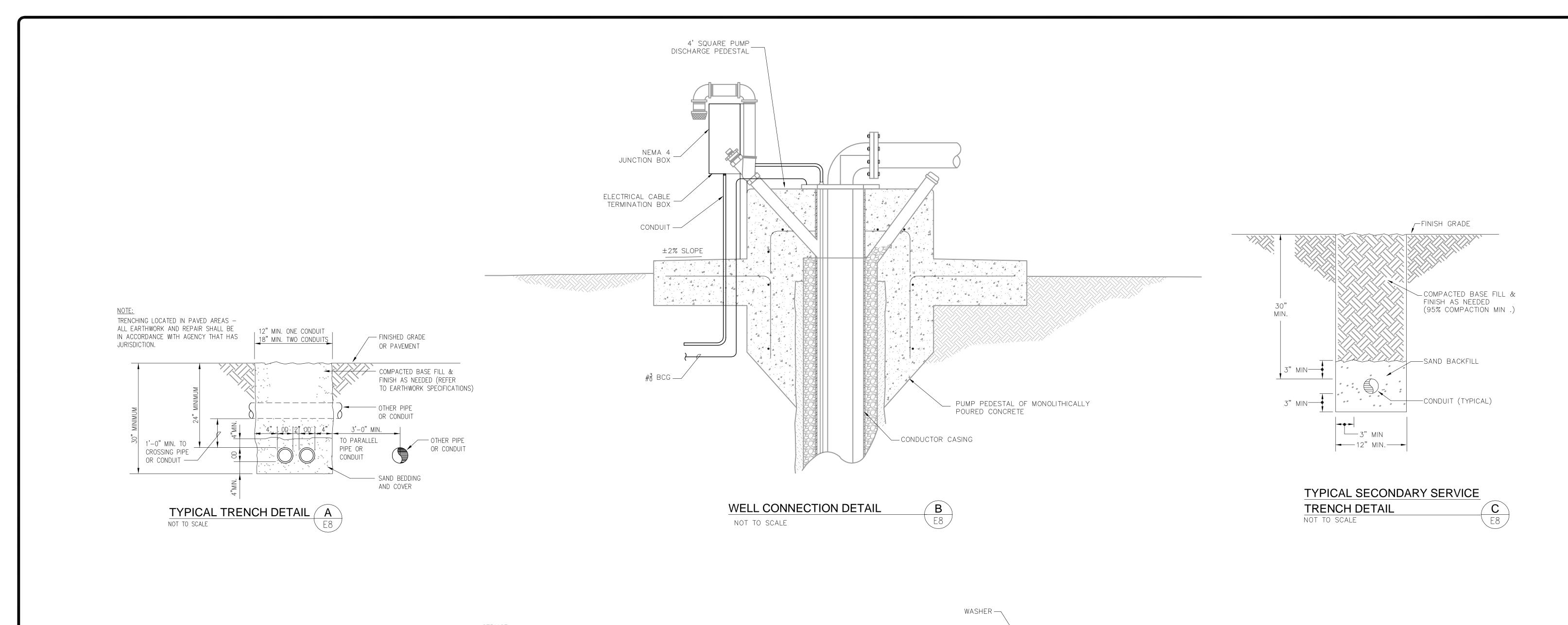
CHEMICAL SYSTEM CONTROL WIRING DIAGRAM

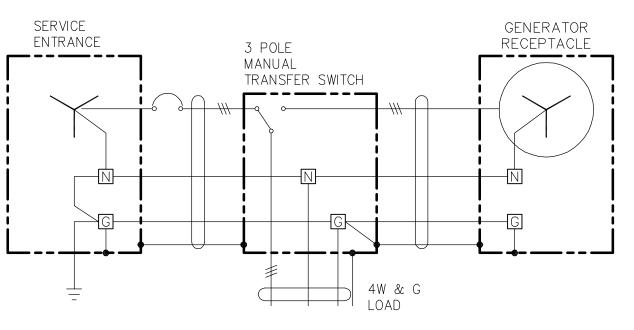


# Sauers Engineering, Inc. Civil and Environmental Engineers

FOR REDUCED PLANS	REVISIONS			
ORIGINAL SCALE IS IN INCHES	NO.	ITEM		
	$\bigcirc$			
HORIZ. SCALE:	2			
VERT. SCALE:	3			
(E)CONTOUR	4			
`IŃTERVAL	<u>\$</u>			

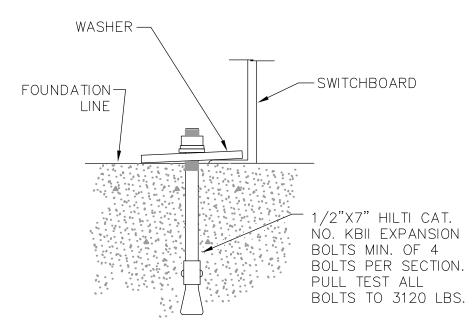
	REVISIONS			APPROVALS	COUNTY OF STANISLAUS			DRAWING	
,"	NO.	ITEM	DATE:		DEPARTMENT OF PARKS & RECREATION			E7	
İ	$\triangle$					loodward Rese			SHEET /
	<u>^</u>				Water Well & Water Filtration System			em	17
	ß			DEPARTMENT	WELL SITE NO.2 - CONTROL WIRING DIAGRAM				17 OF 19
	4			DEPARTMENT	DATE:		SCALE:		/ 19
	<u>\$</u>				DRAFTED:	CHECKED:	FILE NO:	W.O. N	0:





NON-SEPERATELY DERIVED
GROUND SYSTEM
NOT TO SCALE

E8









## Sauers Engineering, Inc.

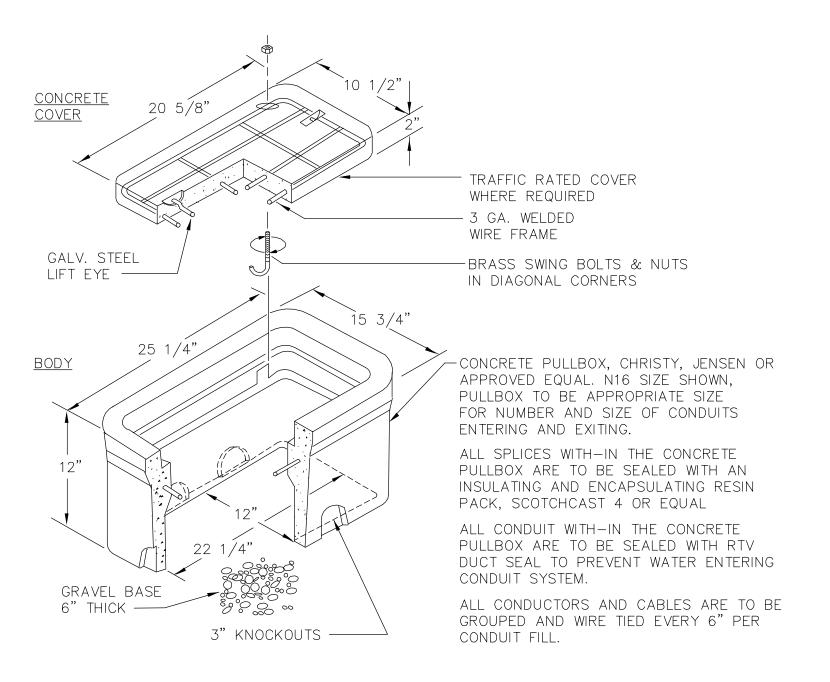
Civil and Environmental Engineers

440 Lower Grass Valley Road, Suite A, Nevada City, CA 95959

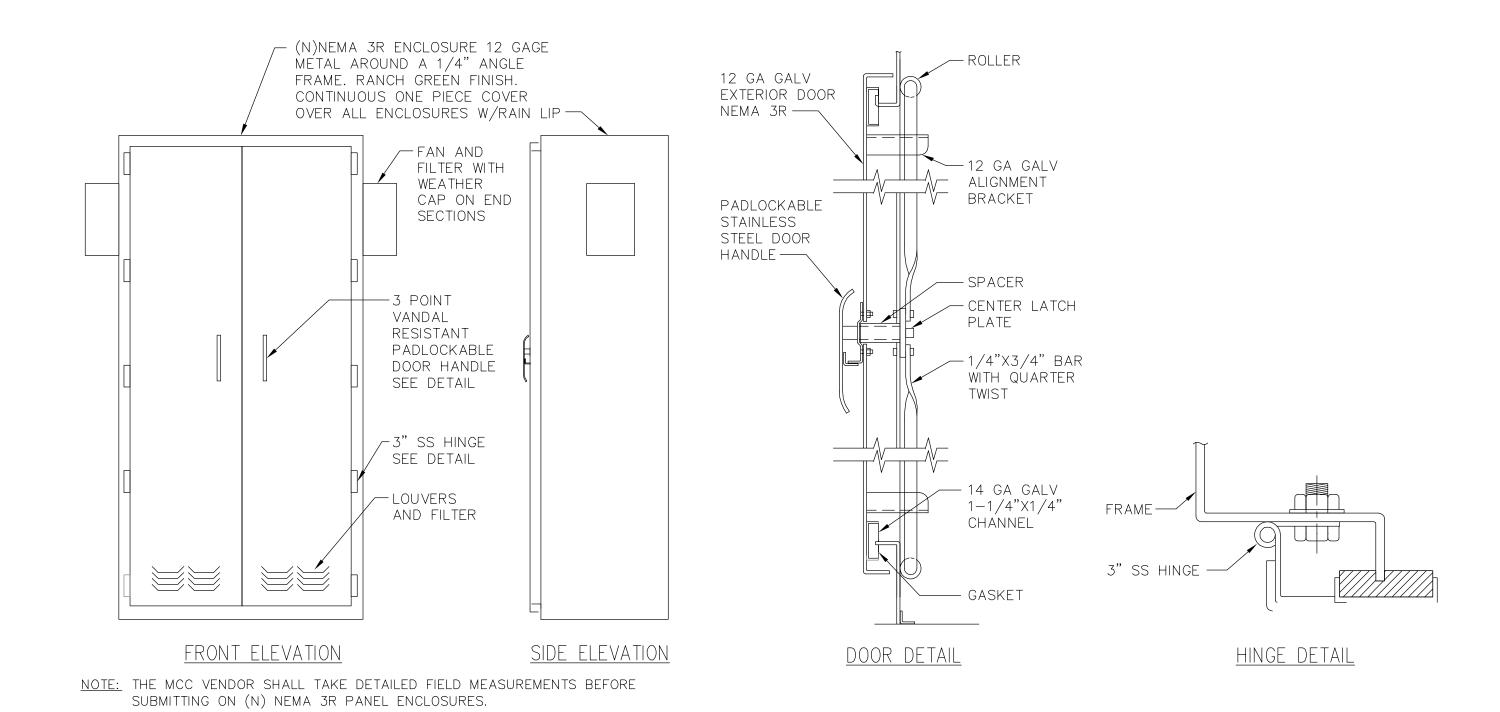
FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES
0 1" 2"
HORIZ. SCALE: VERT. SCALE:

(E)CONTOUR INTERVAL

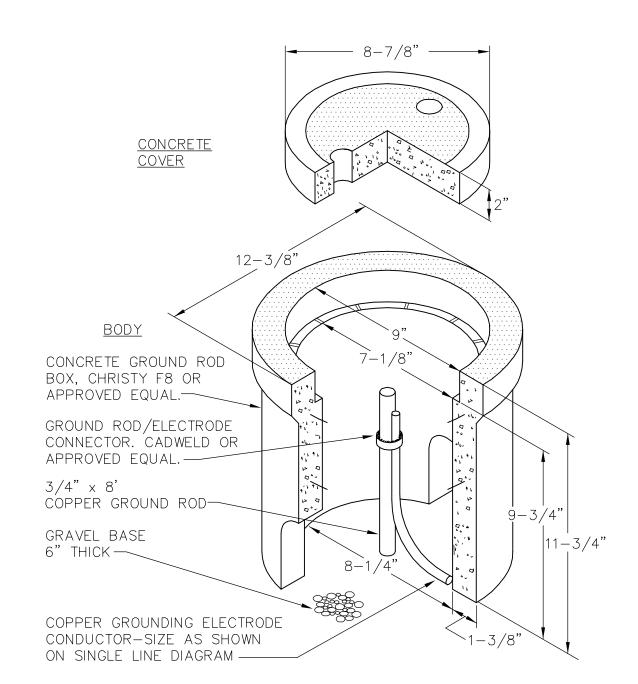
REVISIONS		APPROVALS	CC	COUNTY OF STANISLAUS			DRAWING	
NO.	ITEM	DATE:			PARTMENT OF PARK			E8
$\triangle$					Woodward F			SHEET /
<u>^</u>					Water Well & Water Filtration System			18
3			DEPARTMENT	EL	ECTRICAL	DETAILS I		10 of 19
4			DEPARTMENT	DATE:		SCALE:		/ 19
₫				DRAFTED:	CHECKED:	FILE NO:	W.O. N	10:



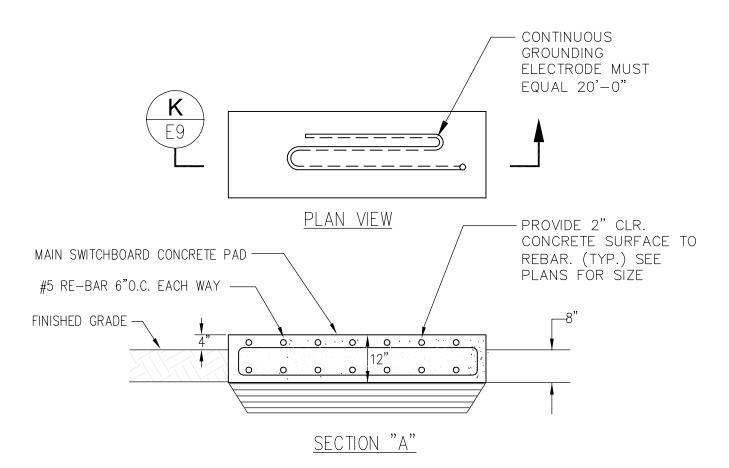




TYPICAL SWITCHBOARD/MCC WAEATHERPROOF ENCLOSURE ELEVATION H



CONCRETE GROUND ROD BOX G
NOT TO SCALE E9







Sauers Engineering, Inc.

Civil and Environmental Engineers

440 Lower Grass Valley Road, Suite A, Nevada City, CA 95959	

FOR REDUCED PLANS	REVISIONS			APPROVALS
ORIGINAL SCALE IS IN INCHES  1" 2"	NO.	ITEM	DATE:	
	$\triangle$			
HORIZ. SCALE: VERT. SCALE:	2			
	ß			DEPARTMENT
(E)CONTOUR	4			DEPARTMENT
ÎNTERVAL	A			

DRAWING

SHEET

W.O. NO:

19

COUNTY OF STANISLAUS
DEPARTMENT OF PARKS & RECREATION

Woodward Reservoir

ELECTRICAL DETAILS IÍ

CHECKED:

DRAFTED:

Water Well & Water Filtration System

SCALE:

FILE NO: