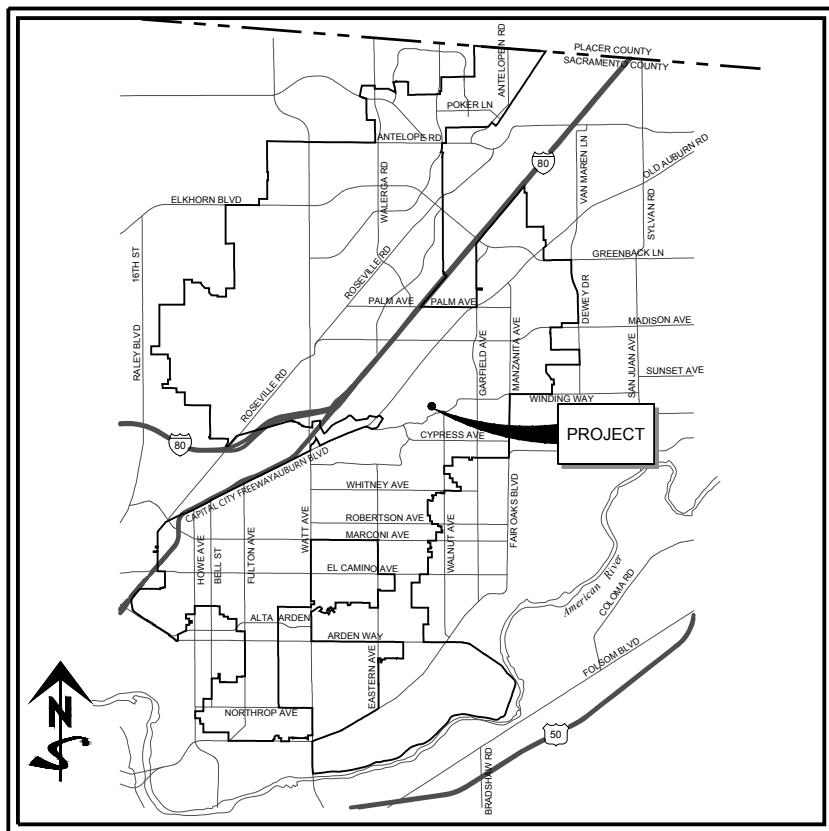
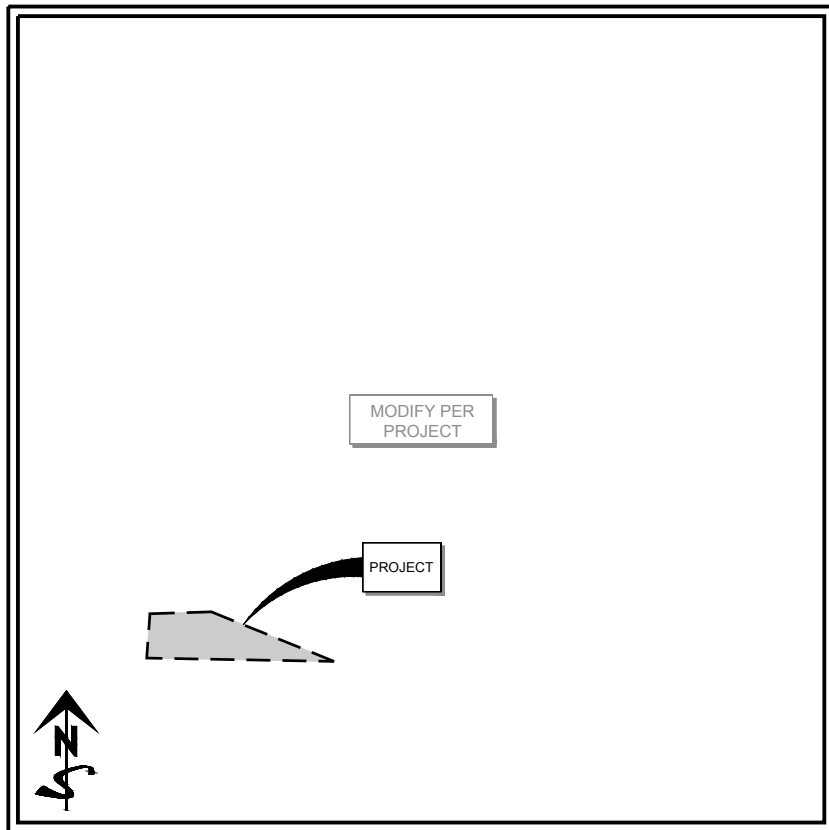


SACRAMENTO SUBURBAN WATER DISTRICT

PROJECT TITLE



VICINITY MAP
NO SCALE



LOCATION MAP
NO SCALE



MODIFY PER PROJECT

MODIFY PER PROJECT

MODIFY PER PROJECT

MODIFY PER PROJECT

BID DOCUMENT

JANUARY 2020

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	TITLE
GENERAL		
1	G0	COVER, LOCATION AND VICINITY MAPS
2	G1	ABBREVIATIONS, DESIGNATIONS AND STANDARD SYMBOLS
3	G2	GENERAL NOTES
CIVIL		
4	C1	SITE PLAN
5	C2	PLAN AND PROFILE
ARCHITECTURAL		
6	A1	ABBREVIATIONS, DESIGNATIONS AND STANDARD SYMBOLS
7	A2	ARCHITECTURAL PLANS
STRUCTURAL		
8	S1	STRUCTURAL ABBREVIATIONS, GENERAL STRUCTURAL NOTES
9	S2	SPECIAL INSPECTION AND TEST SCHEDULE
10	S3	STRUCTURAL PLANS
MECHANICAL		
11	M1	ABBREVIATIONS, STANDARD SYMBOLS AND DESIGNATIONS
12	M2	MECHANICAL PLANS
ELECTRICAL		
13	E1	ABBREVIATIONS AND STANDARD SYMBOLS
14	E2	ELECTRICAL PLANS
INSTRUMENTATION		
15	I1	ABBREVIATIONS AND PROCESS AND INSTRUMENTATION SYMBOLS
16	I2	PROCESS AND INSTRUMENTATION DIAGRAM

SACRAMENTO METRO FIRE DISTRICT

APPROVED AS TO FIRE SERVICE LOCATIONS ONLY. MAIN SIZE DETERMINED BY SACRAMENTO SUBURBAN WATER DISTRICT:

BY: _____ DATE: _____

SACRAMENTO SUBURBAN WATER DISTRICT

APPROVED FOR CONSTRUCTION OF WATER SYSTEM:

BY: _____ DATE: _____

NOTE: THIS PLAN EXPIRES ONE YEAR FROM APPROVAL

UTILITY CONTACT INFORMATION

UTILITY	REPRESENTATIVE	PHONE
GAS	PACIFIC GAS AND ELECTRIC - DON HENDRICKS	916-386-5469
DRAINAGE	SACRAMENTO COUNTY WATER RESOURCES - MARK RAINS	916-874-6851
TELEPHONE	AT&T - DAVE MATEO	916-281-7103
ELECTRICITY	SMUD	916-732-5755
WATER	SSWD - DAVID MORROW / ERIK FLAA	916-972-7171
SEWER	SACRAMENTO AREA SEWER DISTRICT - ROBERT ESPINOZA	916-876-7526
FIRE DISTRICT	SACRAMENTO METROPOLITAN FIRE DISTRICT - #####	916-859-4319
TELEVISION	COMCAST CABLE - JUSTIN WALLACE	650-444-4647
FIBER OPTICS	CCI - GRETCAGN H.	916-879-1029
SURVEY	SACRAMENTO COUNTY SURVEY DEPARTMENT - BILL CARMACK	916-875-7987
U.S.A.	USA NORTH: (811)	800-227-2600

NOTE:

1. IN GENERAL, WHERE NEW EQUIPMENT IS SHOWN ON THE SAME SHEET AS EXISTING OR FUTURE EQUIPMENT, THE NEW EQUIPMENT WILL BE SHOWN IN A HEAVIER LINE WEIGHT.



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ABBREVIATIONS				DESIGNATIONS				STANDARD SYMBOLS					
A	AMP	G	GAS	PVC	POLYVINYL CHLORIDE	DETAILS 					SURVEY CONTROL POINT		LUMINAIRE
ABAN	ABANDON	GA	GAGE, GAUGE	PVMT	PAVEMENT						SURVEY MONUMENT		SSCO
AC	ASPHALTIC CONCRETE	GAL	GALLON	Q	QUICK CONNECT	SECTIONS 					POTHOLE LOCATION		REDUCER OR INCREASER
ACI	AMERICAN CONCRETE INSTITUTE	GALV	GALVANIZED	QC	QUICK CONNECT						CORROSION TEST LOCATION		CENTER LINE
ADDIT	ADDITIONAL	GPM	GALLONS PER MINUTE	QTY	QUANTITY		CONTRACTOR WORK AREA		PROPOSED ITEM			(E) CONCRETE	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GR	GRADE	R	RADIUS		BELOW GROUND		PROPERTY LINE			(E) GRAVEL (E) SAND	
ALUM	ALUMINIUM	GS	GALVANIZED STEEL	R/W	RIGHT OF WAY		PUBLIC UTILITY EASEMENT		RIGHT OF WAY			(E) A.C. PAVEMENT (E) A.B.	
APPROX	APPROXIMATE	H	HEIGHT	RC(P)	REINFORCED CONCRETE (PIPE)		(E) CONTOUR MAJOR (FT)		(E) CONTOUR MINOR (FT)			(N) CONTOUR MAJOR (FT) (N) CONTOUR MINOR (FT)	
ARV	AIR RELEASE VALVE	HDPE	HIGH-DENSITY POLYETHYLENE	RD	ROOF DRAIN		FLOW LINE		(E) WATER PIPE LABEL			(E) SANITARY SEWER PIPE LABEL (E) STORM SEWER PIPE LABEL	
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	HR	HOUR	RED	REDUCER		(E) WATER PIPE LABEL		(E) GAS LINE			(E) WATER LINE (E) STORM DRAIN LINE	
AWS	AMERICAN WELDING SOCIETY	IE	INVERT ELEVATION	REINF	REINFORCED(ING)		(E) SANITARY SEWER LINE		(E) TELEPHONE LINE			(E) FIBER OPTICS (E) COMMUNICATIONS	
AWWA	AMERICAN WATER WORKS ASSOCIATION	IN	INCHES	RES	RESIDUAL		ELECTRICAL		FENCE			(E) STORM DRAIN INLET (E) FIRE HYDRANT	
B	BLIND FLANGE	IN WC	INCHES OF WATER COLUMN	RPP	REDUCED PRESSURE PREVENTOR		STEAMER HYDRANT		GATE VALVE			(E) WATER METER SERVICE (E) WATER METER SERVICE NOT FOUND	
BF	BLIND FLANGE	IRR, (IG)	IRRIGATION	S	SOUTH		WATER METER SERVICE NOT CONNECTED		WATER SETTLER			EXISTING CURB STOP SERVICE NOT FOUND	
BLKG	BLOCKING	J	JUNCTION BOX	SCH	SCHEDULE		GAS METER SERVICE		SANITARY SEWER MANHOLE			SANITARY SEWER MANHOLE STORM DRAIN MANHOLE WATER MANHOLE	
BMK	BENCHMARK	JB	JUNCTION BOX	SD	STORM DRAIN		WATER MANHOLE		UTILITY MANHOLE			UTILITY MANHOLE TELEPHONE MANHOLE ELECTRIC MANHOLE (EM#)	
BMP	BEST MANAGEMENT PRACTICE	JT(S)	JOINT(S)	SG	SUBGRADE		SIGN		STAND PIPE			STAND PIPE TELEPHONE SERVICE TELEPHONE POLE	
BOT	BOTTOM	L	LENGTH	SHT(S)	SHEET(S)		UTILITY POLE						
BW	BACKWASH	LD	DEVELOPMENT LENGTH	SIM	SIMILAR								
C	CATCH BASIN	M	MODIFIED	SLV	SLEEVE								
CB	CATCH BASIN	(M)	MODIFIED	SMH	SEWER MANHOLE								
CC	CENTER TO CENTER	MAX	MAXIMUM	SPEC(S)	SPECIFICATION(S)								
CCF	CONTROL DENSITY FILL	MB	MACHINE BOLT	SQ	SQUARE								
CFM	CUBIC FEET PER MINUTE	MCC	MOTOR CONTROL CENTER	SS	SANITARY SEWER								
CHEM	CHEMICAL	MECH	MECHANICAL	SST	STAINLESS STEEL								
C/L	CENTERLINE	MFR	MANUFACTURER	STA	STATION								
CLR	CLEAR	MIN	MINIMUM	STD	STANDARD								
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MJ	MECHANICAL JOINT	STL	STEEL								
CMU	CONCRETE MASONRY UNIT	N	NORTH	SSWD	SACRAMENTO SUBURBAN WATER DISTRICT								
CO	CLEANOUT	(N)	NEW	T	TOP OF								
COL	COLUMN	NA	NOT APPLICABLE	TEL	TELEPHONE								
CONC	CONCRETE	NIC	NOT IN CONTRACT	TEMP	TEMPORARY								
CONST(R)	CONSTRUCTION	NO	NUMBER	THK	THICK/THICKNESS								
CONT	CONTINUATION	NPT	NATIONAL PIPE THREAD	TOC	TOP OF CONCRETE								
CPLG	COUPLING	NSF	NATIONAL SANITATION FOUNDATION	TYP	TYPICAL								
D	DRAIN	NTS	NOT TO SCALE	U	UNDERGROUND								
DET	DETAIL	OC	ON CENTER	UG	UNKNOWN								
DFPT	DOUGLAS FIR PRESSURE TREATED	OC OF	OUTSIDE DIAMETER OVERFLOW	UNK	UNKNOWN								
DI	DUCTILE IRON	P	PIPE	V	VAULT								
DIA	DIAMETER	PB	PULL BOX	VAC	VACUUM								
DIM	DIMENSION	PCO	PRESSURE CLEANOUT	VERT	VERTICAL								
DIP	DUCTILE IRON PIPE	PL	PLATE	VFD	VARIABLE FREQUENCY DRIVE								
DN	DOWN	PO	PUSH ON JOINT	VOL	VOLUME								
DW	DRINKING (POTABLE) WATER	PP	POLYETHYLENE PIPE	W	WATER								
DWG	DRAWING	PRV	PRESSURE RELIEF VALVE	W, WTR	WATER								
E	EAST	PSF	POUNDS PER SQUARE FOOT	W/	WITH								
EA	EACH	PSIG	POUNDS PER SQUARE INCH, GAUGE	WC	WATER COLUMN								
EL, (EV)	ELEVATION	PT	POINT	WL	WATER LINE								
ELEC	ELECTRICAL	P	PIPE	PLT	PLATE								
EMH	ELECTRICAL MANHOLE	PB	PULL BOX	PL	PLATE								
EP	EDGE OF PAVEMENT	PCO	PRESSURE CLEANOUT	PL	PLATE								
EW	EACH WAY	PL	PLATE	PL	PLATE								
EX, (E)	EXISTING	PO	PUSH ON JOINT	PL	PLATE								
EXP	EXPANSION	PP	POLYETHYLENE PIPE	PL	PLATE								
F	FUTURE	PRV	PRESSURE RELIEF VALVE	PL	PLATE								
(F)	FUTURE	PSF	POUNDS PER SQUARE FOOT	PL	PLATE								
FCA	FLANGED COUPLING ADAPTER	PT	POINT	PL	PLATE								
FCO	FLOOR CLEAN OUT			PL	PLATE								
FD	FLOOR DRAIN			PL	PLATE								
FG	FINAL GRADE			PL	PLATE								
FH	FIRE HYDRANT			PL	PLATE								
FIG	FIGURE			PL	PLATE								
FIN	FINISH			PL	PLATE								
FM	FLOW METER			PL	PLATE								
FPM	FEET PER MINUTE			PL	PLATE								
FT, (FT)	FEET			PL	PLATE								
FT BGS	FEET BELOW GROUND SURFACE			PL	PLATE								
FW	FIRE WATER			PL	PLATE								

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS

REVISIONS <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>				NO	DATE	DESCRIPTION	BY	1	-	-	-	2	-	-	-	3	-	-	-	4	-	-	-	LINE IS 2 INCHES AT FULL SIZE SCALE: - DESIGNED: - DRAWN: - APPROVED: -	DATE: 00/99/1234	DATE: 00/99/1234	PRELIMINARY DESIGN THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL	 3701 MARCONI AVENUE, SUITE 100 SACRAMENTO, CA 95821 PHONE: 916.972.7171	PROJECT-TITLE 1 PROJECT-TITLE 2 GENERAL ABBREVIATIONS, DESIGNATIONS AND STANDARD SYMBOLS	PROJECT NUMBER - DATE 06/12/2019 DRAWING NUMBER G1 SHEET NUMBER 2 OF -
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SACRAMENTO SUBURBAN WATER DISTRICT GENERAL NOTES

- SACRAMENTO SUBURBAN WATER DISTRICT IS A MEMBER OF U.S.A. ONE CALL PROGRAM. CALL 811 FOR PUBLIC WATER SYSTEM INFORMATION.
- ALL MATERIALS USED AND WORK PERFORMED IN WATER SYSTEM CONSTRUCTION AND INSTALLATION SHALL COMPLY WITH APPROVED PLANS, SPECIAL CONDITIONS, AND THE DISTRICT STANDARDS AND TECHNICAL SPECIFICATIONS. ANY AND ALL DEVIATIONS FROM THESE DOCUMENTS SHALL REQUIRE PRIOR WRITTEN APPROVAL BY THE GENERAL MANAGER OR AN APPOINTED REPRESENTATIVE OF THE DISTRICT.
- TEN (10) DAYS PRIOR TO PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL FURNISH TO THE DISTRICT A LIST OF MATERIALS PROPOSED TO BE USED IN CONSTRUCTING THE WATER SYSTEM, INCLUDING MANUFACTURER INFORMATION AND MODEL NUMBER.
- PRE-CONSTRUCTION MEETING WITH THE DISTRICT INSPECTOR, CONSULTING ENGINEER, COUNTY/CITY INSPECTOR AND CONTRACTOR MUST BE HELD AT LEAST TWO (2) DAYS IN ADVANCE OF CONSTRUCTION TO INSPECT MATERIALS, SCHEDULE INSPECTIONS, REVIEW THE APPROVED WATER SYSTEM PLANS, AND SCHEDULE ANY TIE-IN CONNECTIONS. PRE-CONSTRUCTION MEETINGS WILL NOT BE SCHEDULED UNTIL ALL DISTRICT REQUIRED FEES HAVE BEEN PAID, ALL MATERIAL SUBMITTALS ARE APPROVED, AND THE DISTRICT RECEIVES ORIGINAL GUARANTEE LETTERS, ENCROACHMENT/MAINTENANCE BONDS, FINAL SIGNED PLANS, AND REPRODUCIBLE PLANS.
- NO WORK SHALL BEGIN UNTIL ITEMS IN GENERAL NOTES 3. AND 4., ABOVE, ARE COMPLETED.
- ALL WATER SYSTEM SHUTDOWNS SHALL BE MADE ONLY BY DISTRICT PERSONNEL. UNDER NO CIRCUMSTANCES SHALL ANYONE OTHER THAN THE DISTRICT OPEN OR CLOSE ANY VALVE IN THE DISTRICT SYSTEM. SHUTDOWNS FOR THE PURPOSE OF MAKING CONNECTIONS TO EXISTING MAINS MUST BE SCHEDULED AT LEAST THREE (3) DAYS IN ADVANCE, AND ARE ONLY PERMITTED ON TUESDAY, WEDNESDAY AND THURSDAY, EXCLUDING DISTRICT HOLIDAYS. THE HOURS OF THE SHUTDOWN SHALL BE DETERMINED BY THE DISTRICT. ALL CONNECTIONS WILL BE SUPERVISED AND CONTROLLED BY THE DISTRICT.
- THE FINISH GRADE SHALL BE ESTABLISHED, STAKED AND MARKED AT EACH WATER SERVICE CONNECTION AND HYDRANT LOCATION. PERMANENT PROPERTY CORNER MARKERS SHALL BE PLACED BY A LICENSED CIVIL ENGINEER OR LICENSED SURVEYOR.
- A SEPARATE WATER SERVICE CONNECTION MUST BE INSTALLED FOR EACH LOT, PARCEL OR PREMISE, AND SHALL BE ONE (1) INCH IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE APPROVED WATER PLAN. NO SERVICE SHALL BE PERMITTED WITHIN 20-FEET OF A BLOW OFF ASSEMBLY.
- THE COMPLETED WATER SYSTEM MUST BE DISINFECTED, HYDRO-TESTED AND FLUSHED.
- NO WATER SERVICE WILL BE PROVIDED AND NO CONNECTIONS TO WATER SERVICE WILL BE PERMITTED UNTIL THE REQUIREMENTS FOR TEMPORARY WATER APPROVAL HAVE BEEN COMPLETED.
- AT THE TIME OF FINAL ACCEPTANCE BY THE DISTRICT, THE COMPLETED WATER SYSTEM AND MAIN EXTENSIONS WITH ALL APPURTENANCES, APPARATUS, FITTINGS AND EQUIPMENT SHALL BECOME AND FOREVER REMAIN THE PROPERTY OF THE DISTRICT.
- ALL EXISTING WATER SERVICES NOT REQUIRED FOR THIS PROJECT SHALL BE ABANDONED ACCORDING TO TECHNICAL SPECIFICATIONS 2-2.19 OF THESE SPECIFICATIONS. THE EXACT METHOD SHALL BE DETERMINED BY THE DISTRICT INSPECTOR AND SHALL BE NO LESS THAN THE FOLLOWING:
 - REMOVING SECTION OF PIPE AND REPLACING WITH A NEW SECTION.
 - REMOVAL OF THE WELD-ON COUPLING, CORPORATION STOP, SADDLE AND INSTALL A FULL-CIRCLE 20-INCH WIDE, STAINLESS STEEL REPAIR BAND.
- ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY CERTIFIED COUNTY APPROVED TESTERS PRIOR TO FINAL ACCEPTANCE. COPIES OF SATISFACTORY TEST RESULTS SHALL BE FURNISHED TO THE DISTRICT PRIOR TO FINAL ACCEPTANCE OF SYSTEM AT NO COST TO THE DISTRICT. WATER SERVICE SHALL NOT BE PROVIDED UNTIL DISTRICT RECEIVES THE SATISFACTORY TEST RESULTS.
- UPGRADE OF EXISTING FACILITIES SHALL INCLUDE BUT NOT LIMITED TO BRINGING FACILITY TO CURRENT STANDARDS AND/OR REPLACEMENT AS REQUIRED OR DIRECTED BY THE DISTRICT.
- A SEPARATE SAMPLING STATION(S) SHALL BE INSTALLED AS NECESSARY TO MEET STATE WATER RESOURCES CONTROL BOARD DIVISION OF DRINKING WATER REQUIREMENTS FOR COLIFORM TESTING.
- ALL ABOVE GROUND APPURTENANCES (ARV'S, FIRE HYDRANTS, SAMPLE STATIONS, ETC.) SHALL HAVE 4 GUARD POSTS INSTALLED PER DISTRICT STANDARD DETAIL NO. 7 UNLESS OTHERWISE DIRECTED BY DISTRICT.

GENERAL NOTES

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS


SURVEY CONTROL NOTES

SURVEY CONTROL:

- SURVEY SHALL BE IN ACCORDANCE WITH SACRAMENTO COUNTY SURVEY DATUM:

NAD 1983, CALIFORNIA STATE PLAN COORDINATE SYSTEM, ZONE 2.

SURVEY CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
#	#####.##	#####.##	###.##	#####



REVISIONS			
NO	DATE	DESCRIPTION	BY
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

LINE IS 2 INCHES AT FULL SIZE
SCALE: AS SHOWN

DESIGNED: -
DRAWN: -
APPROVED: -
DATE: 00/99/1234

PRELIMINARY DESIGN

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

DATE: 00/99/1234



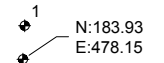
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PROJECT-TITLE 2
GENERAL

GENERAL NOTES

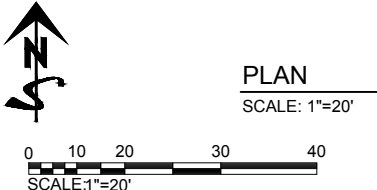
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DATE 06/12/2019
DRAWING NUMBER G2
SHEET NUMBER 3 OF -

SAMPLE SET OF PLANS. CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS

EXAMPLE POINTS



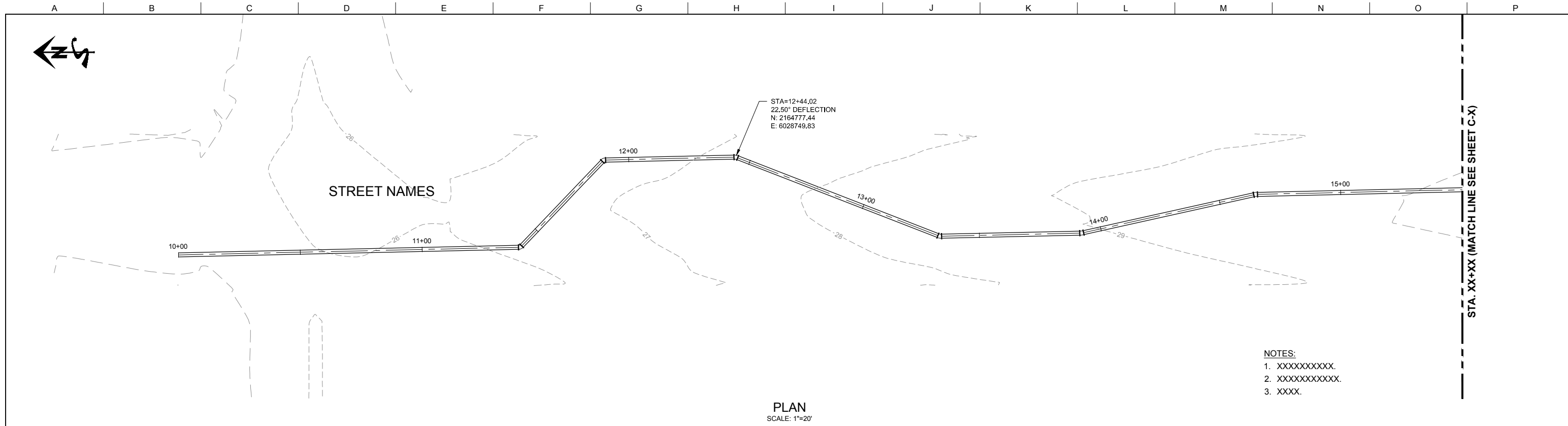
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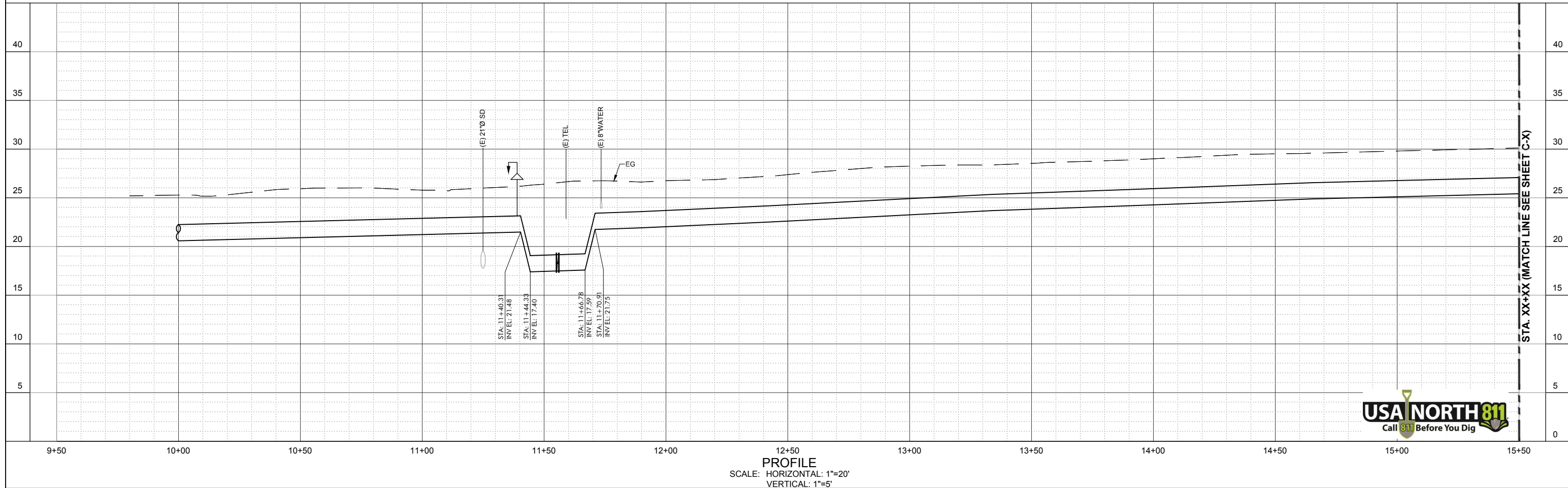
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3	-	-	-	DRAWN: -						
4	-	-	-	APPROVED: -						

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- NOTES:
 1. XXXXXXXXXXXX.
 2. XXXXXXXXXXXX.
 3. XXXX.



REVISIONS			
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DATE: 00/99/1234

DATE: 00/99/1234

PRELIMINARY DESIGN
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3701 MARCONI AVENUE, SUITE 100
 SACRAMENTO, CA 95821
 PHONE: 916.972.7171

PROJECT-TITLE 1
 PROJECT-TITLE 2
 CIVIL
PLAN AND PROFILE

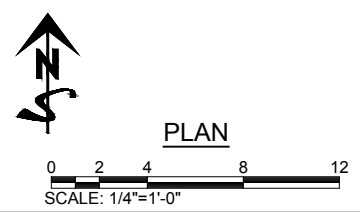
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DATE	06/12/2019
DRAWING NUMBER	C2
SHEET NUMBER	5 OF -

ABBREVIATIONS				DESIGNATIONS				STANDARD SYMBOLS			
A		DWG	DRAWING	LOA	LENGTH OVERALL	RFG	ROOFING				
ABV	ABOVE	D	NAIL SIZE	LT	LIGHT	RM	ROOM				
ACOUS	ACOUSTICAL			LF	LINEAL FEET	RO	ROUGH OPENING				
ADDL	ADDITIONAL	E		LL	LIVE LOAD						
ADH	ADHESIVE	EW	EACH WAY	LVL	LAMINATED VENEER LUMBER	S					
ADJ	ADJUSTABLE	E	EAST	LVR	LOUVER	SCH	SCHEDULE				
AFF	ABOVE FINISH FLOOR	EL	ELEVATION			SCN	SCREEN				
AGG	AGGREGATE	ELEV	ELEVATION	M		SECT	SECTION				
AHJ	AUTHORITY HAVING JURISDICTION (BUILDING DEPARTMENT)	EQ	EQUAL	MFR	MANUFACTURER	SGD	SLIDING GLASS DOOR				
A/C	AIR CONDITIONING	EQP	EQUIPMENT	MO	MASONRY OPENING	SHTH	SHEATHING				
ALT	ALTERNATE	EXCV	EXCAVATE	MAX	MAXIMUM	SHT	SHEET				
ALUM	ALUMINUM	EXH	EXHAUST	MAS	MASONRY	SH	SHELF, SHELVING				
ANC	ANCHOR, ANCHORAGE	EX, (E)	EXISTING	MECH	MECHANIC(AL)	SIM	SIMILAR				
AB	ANCHOR BOLT	EXT	EXTERIOR	MC	MEDICINE CABINET	SKL	SKYLIGHT				
ANOD	ANODIZED			MED	MEDIUM	S	SOUTH				
APX	APPROXIMATE	F		MDF	MEDIUM DENSITY FIBERBOARD	SLB	SLAB				
APT	APARTMENT	FOC	FACE OF CONCRETE	MDO	MEDIUM DENSITY OVERLAY	SLD	SLIDER(ING)				
ARCH	ARCHITECT (ARCHITECTURAL)	FOF	FACE OF FINISH	MBR	MEMBER	SPEC	SPECIFICATION				
ASPH	ASPHALT	FOM	FACE OF MASONRY	MMB	MEMBRANE	SQ	SQUARE				
AUTO	AUTOMATIC	FOS	FACE OF STUDS	MTL	METAL	STD	STANDARD				
AVE	AVENUE	FOW	FACE OF WALL	MWK	MILLWORK	STV	STOVE				
AVR	AVERAGE	FBD	FIBERBOARD	MIN	MINIMUM	STL	STEEL				
AWN	AWNING	FCB	FIBER CEMENT BOARD	MIR	MIRROR	STR	STRUCTURAL				
		FGL	FIBERGLASS	MISC	MISCELLANEOUS	SA	SUPPLY AIR				
		FIN	FINISH	MOD	MODULE	SC	SOLID CORE				
B		FFE	FINISHED FLOOR ELEVATION	MLD	MOULDING	SW	SHEAR WALL				
BSMT	BASEMENT	FA	FIRE ALARM	MLB	MICRO LAMINATE BEAM	SS	STAINLESS STEEL				
BM	BEAM	FE	FIRE EXTINGUISHER			SSWD	SACRAMENTO SUBURBAN WATER DISTRICT				
BVL	BEVELED	FPL	FIREPLACE	N		SYS	SYSTEM				
BITUM	BITUMINOUS	FLSH	FLASHING	(N)	NEW						
BLK	BLOCK	FLR	FLOOR	NOM	NOMINAL						
BLKG	BLOCKING	FLOR	FLUORESCENT	N	NORTH	T					
BLW	BELOW	FT	FOOT, FEET	NIC	NOT IN CONTRACT	TEL	TELEPHONE				
BLDV	BOULEVARD	FTG	FOOTING	NTS	NOT TO SCALE	TEMP	TEMPERED				
BTW	BETWEEN	FND	FOUNDATION	NO, #	NUMBER	TK	TIGHT KNOT				
BD	BOARD	FRM	FRAM(D), (ING)			T&G	TONGUE AND GROOVE				
BOT	BOTTOM	FBO	FURNISHED BY OTHERS	O		T/O	TOP OF				
BLDG	BUILDING	FUR	FURRED	O	NON-OPERABLE WINDOW SECTION	TOC	TOP OF CONCRETE				
BUR	BUILT UP ROOFING			OBS	OBSCURE	TOW	TOP OF WALL				
B/O	BY OTHERS	G		OC	ON CENTER	TB	TOWEL BAR				
BO	BOTTOM OF	GA	GAGE, GAUGE	OP	OPAQUE	T	TREAD				
BR	BEDROOM	GAL	GALLON	OPG	OPENING	TS	TUBULAR STEEL				
		GL	GLASS, GLAZING	OSB	ORIENTATED STRAND BOARD	TYP	TYPICAL				
C		GLBK	GLASS BLOCK	OD	OUTSIDE DIAMETER						
CAB	CABINET	GLB	GLUE LAMINATED BEAM	P		U	UNDERWRITERS LABORATORY				
CALC	CALCULATION	GT	GROUT	PMT	PAINT(ED)	UNF	UNFINISHED				
CAS	CASEMENT	GRD	GRADE, GRADING	PBD	PARTICLE BOARD	UNO	UNLESS NOTED OTHERWISE				
CB	CATCH BASIN	GWB	GYPSUM WALL BOARD	PRT	PARTITION						
CD	CABINET DOOR			PVMT	PAVEMENT	VB	VAPOR BARRIER				
CG	CORNER GUARD	H		PERF	PERFORATE(D)	VAR	VARNISH				
CIP	CAST-IN-PLACE (CONCRETE)	HWD	HARDWARE	PLAS	PLASTER	VIF	VERIFY IN FIELD				
C/L	CENTERLINE	HDR	HEADER	PLAM	PLASTIC LAMINATE	VRN	VENEER				
CO	CLEAN OUT	HTG	HEATING	PLT	PLATE	VERT	VERTICAL				
CONTR	CONTRACT (OR)	HVAC	HEATING, VENTILATION-AIR CONDITIONING	PLYWD	PLYWOOD	VG	VERTICAL GRAIN				
COORD	COORDINATE	H	HEIGHT	PCC	PRECAST CONCRETE	VIN	VINYL SHEET				
CRPT	CARPET	HC	HOLLOW CORE	PCF	POUNDS PER CUBIC FOOT						
CIP	CAST-IN-PLACE	HOR	HORIZONTAL	PLF	POUNDS PER LINEAR FOOT	W					
CLK	CAULKING	HB	HOSE BIB	PSF	POUNDS PER SQUARE FOOT	WL	WALL				
CLG	CEILING			PSI	POUNDS PER SQUARE INCH	WC	WATER CLOSET				
CT	CERAMIC TILE	I		PBF	PREFABRICATED	WH	WATER HEATER				
CIR	CIRCLE	IN	INCH	PRF	PREFORMED	WP	WATER PROOFING				
CLR	CLEAR	INCL	INCLUDE	PT	PRESSURE TREATED	WR	WEATHER RESISTANT				
COL	COLUMN	ID	INSIDE DIAMETER	PL	PROPERTY LINE	WRB	WEATHER RESISTIVE BARRIER				
CONC	CONCRETE	INS	INSULATE	PH	TOILET PAPER HANGER	WWF	WELDED WIRE FABRIC				
CMU	CONCRETE MASONRY UNIT	INT	INTERIOR			WWM	WELDED WIRE MESH				
CONST	CONSTRUCTION	INV	INVERT	Q		W	WEST				
CONT	CONTINUOUS	J		QTY	QUANTITY	WIN	WINDOW				
CJT	CONTROL JOINT	JNT	JOINT	QT	QUARRY TILE	W/O	WITHOUT				
CORR	CORRUGATED	JST	JOIST	R		W	WITH				
CUFT	CUBIC FOOT			RAD	RADIUS	WD	WOOD				
CUYD	CUBIC YARD			REF	REFERENCE	X					
D		K		RFL	REFLECT(ED),(IVE),(OR)	X	OPERABLE WINDOW SECTION				
DP	DAMP PROOFING	KD	KILN DRIED	REFR	REF						
DTL	DETAIL	KIT	KITCHEN	REG	REGISTER						
DIA	DIAMETER			RE	REINFORCED						
DIM	DIMENSION	L		REQ'D	REQUIRED						
DW	DISHWASHER	LB	POUND	RA	RETURN AIR						
DIV	DIVISION	LAM	LAMINATE(D)	REV	REVISION						
DR	DOOR	LAV	LAVATORY	R	RISER						
DH	DOUBLE HUNG	LH	LEFT HAND	RD	ROD						
DS	DOWNSPOUT	L	LENGTH	R&S	ROD AND SHELF						
DRWR	DRAWER										
DT	DRAIN TILE										

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr> </thead> <tbody> <tr> <td>1</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>-</td><td>-</td><td>-</td></tr> <tr> <td>4</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>				REVISIONS				NO	DATE	DESCRIPTION	BY	1	-	-	-	2	-	-	-	3	-	-	-	4	-	-	-	LINE IS 2 INCHES AT FULL SIZE SCALE: AS SHOWN DESIGNED: - DRAWN: - APPROVED: -	DATE: 00/99/1234	DATE: 00/99/1234	<p style="text-align: center;">PRELIMINARY DESIGN</p> THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL	 <p style="font-size: 0.8em;">3701 MARCONI AVENUE, SUITE 100 SACRAMENTO, CA 95821 PHONE: 916.972.7171</p>	<p style="text-align: center;">PROJECT-TITLE 1 PROJECT-TITLE 2 ARCHITECTURAL</p> <p style="text-align: center;">ABBREVIATIONS, DESIGNATIONS AND STANDARD SYMBOLS</p>	PROJECT NUMBER - DATE 06/12/2019 DRAWING NUMBER A1 SHEET NUMBER 5 OF -
REVISIONS																																		
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SAMPLE SET OF PLANS. CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS



PLAN

REVISIONS			
NO	DATE	DESCRIPTION	BY
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PROJECT-TITLE 1
PROJECT-TITLE 2
ARCHITECTURAL

ARCHITECTURAL PLANS

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	A2
SHEET NUMBER	6 OF -

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STRUCTURAL ABBREVIATIONS						GENERAL STRUCTURAL NOTES					
&	AND	EXP	EXPANSION	OPNG(S)	OPENING(S)	GENERAL 1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE APPROVED BUILDING CODE, AND THE REFERENCED BUILDING CODE STANDARDS. 2. THESE NOTES AS WELL AS THE TYPICAL DETAILS APPLY TO ALL PARTS OF THE PROJECT, UNLESS NOTED OTHERWISE. 3. SHOP DRAWINGS FOR THIS CONTRACT SHALL BE COORDINATED WITH FAVORABLY REVIEWED EQUIPMENT MANUFACTURER'S DRAWINGS. 4. DIMENSIONS NOTED WITH AN ASTERISK, " * ", ARE TO BE COORDINATED WITH FAVORABLY REVIEWED SUBMITTAL BY THE EQUIPMENT MANUFACTURER. PERMITS AND INSPECTIONS 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED BY THE LOCAL BUILDING INSPECTOR AND AS DESCRIBED IN THE SPECIFICATIONS. 2. THE CONTRACTOR SHALL SELECT, INSTALL AND MAINTAIN SHORING, SHEETING, BRACING AND SLOPING AS NECESSARY TO MAINTAIN SAFE EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING FULL COMPLIANCE WITH 29 CFR PART 1926 OSHA SUBPART P EXCAVATIONS AND TRENCHES REQUIREMENTS. ALL EARTHWORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LAW, INCLUDING LOCAL ORDINANCES, CALOSHA, CALIFORNIA CIVIL CODE AND CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY REQUIREMENTS, AND APPLICABLE OSHA REQUIREMENTS. SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS 1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48-HOURS BEFORE PLACEMENT OF REINFORCING STEEL AND CONCRETE SO THAT THE SUBGRADE OF EXCAVATIONS MAY BE INSPECTED BY THE GEOTECHNICAL ENGINEER. 2. THE GEOTECHNICAL ENGINEER SHALL VERIFY BACKFILL MATERIAL AND BACKFILLING PROCEDURES AND PROVIDE SOIL COMPACTION TESTS. 3. STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE DESIGN ENGINEER(S) OF RECORD OR THEIR AUTHORIZED REPRESENTATIVES IN ACCORDANCE WITH CBC 2013, SECTION 1710. STRUCTURAL OBSERVATION SHALL CONSIST OF SITE VISITS AT INTERVALS APPROPRIATE TO THE STAGE OF CONSTRUCTION TO OBSERVE CONSTRUCTION IN PROGRESS AND REVIEW OF TESTING AND INSPECTION REPORTS FOR GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS RELATING TO THE STRUCTURAL WORK AND THE NONSTRUCTURAL COMPONENTS AND EQUIPMENT ANCHORAGE. 4. SPECIAL INSPECTION IN ACCORDANCE WITH CBC 2013, SECTION 1701, SHALL BE REQUIRED AS INDICATED IN THE SPECIAL INSPECTION AND TESTING SCHEDULE ON SHEET ###. SOIL AND FOUNDATIONS 1. THE DESIGN BEARING CAPACITY OF THE SOILS IS ### PSF FOR DEAD AND LIVE LOADS. BEARING CAPACITY OF SOILS ARE FOR DEAD AND LIVE LOADS FOR FOUNDATIONS. BEARING VALUES MAY BE INCREASED AS PERMITTED BY CBC. 2. SOILS SHALL BE EXCAVATED TO THE ELEVATIONS INDICATED ON THE DRAWINGS FOR FOUNDATIONS. THE SUBGRADE SHALL BE PREPARED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. EXCAVATED MATERIAL SHALL BE REPLACED WITH STRUCTURAL FILL AS SHOWN ON THE DRAWINGS. FOUNDATIONS SHALL BE CONSTRUCTED AGAINST UNDISTURBED NATIVE COMPETENT MATERIAL OR COMPACTED STRUCTURAL FILL. LOADING CRITERIA 1. MINIMUM LOADING REQUIREMENTS PER CHAPTER 16 OF THE LATEST EDITION OF CBC. 2. DEAD LOAD: AS CALCULATED 3. LIVE LOADS: CATWALKS FOR MAINTENANCE ACCESS --- PSF UNIFORM, --- LBS POINT BALCONIES (EXTERIOR) --- PSF UNIFORM ELEVATED SLABS & WALKWAYS --- PSF UNIFORM FIXED LADDERS --- LBS POINT FIXED STAIRWAYS & EXIT-WAYS --- PSF UNIFORM, --- LBS POINT PER TREAD HANDRAILS, GUARDRAILS AND GRAB BARS --- PLF AT TOP RAIL, --- LBS POINT FLOOR - LIGHT MANUFACTURING/STORAGE --- PSF UNIFORM, --- LBS POINT ROOF (REDUCTION FOR UNIFORM LOAD) --- PSF UNIFORM, --- LBS POINT CEILING - WITH STORAGE AREA --- PSF UNIFORM GRATING, CHECKERED PLATE, ACCESS HATCHES EQUAL TO FLOOR LIVE LOAD SIDEWALKS & VEHICULAR DRIVEWAYS --- PSF UNIFORM, --- LBS POINT AASHTO UNRESTRICTED VEHICULAR ACCESS HS20-44 CONCRETE VAULTS AND COVERS AASHTO HS20-44					
@	AT	EXT	EXTERIOR	OPP	OPPOSITE						
#	NUMBER	F	FUTURE	PAF	POWDER ACTUATED FASTENER						
Ø	DIAMETER	(E)	FLOOR DRAIN	PER	PERIODIC PLATE						
A		FF	FINISH FLOOR	PL	POUND PER LINEAL FOOT						
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIAL	FIN	FINISH	PLF	PARTIAL PENETRATION						
AB	AGGREGATE BASE, ANCHOR BOLT	FLR	FLOOR	PP	POUND PER SQUARE FOOT						
ACI	AMERICAN CONCRETE INSTITUTE	FN	FIELD NAILING	PSF	POUND PER SQUARE INCH						
ADDIT	ADDITIONAL	FNDN	FOUNDATION	PT(S)	POINT(S)						
ADJ	ADJACENT	FRP	FIBERGLASS REINFORCED PLASTIC	PT	PRESSURE TREATED						
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FTG	FOOT/FEET FOOTING	R	RADIUS						
AISI	AMERICAN IRON AND STEEL INSTITUTE	GA	GAGE/GAUGE	R, RAD	RECTANGLE, RECTANGULAR						
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	GALV	GALVANIZED	RECT	REINFORCING, -MENT REQUIRED						
ALUM	ALUMINUM	GLB	GLULAM BEAM	REINF REQ'D							
ALT	ALTERNATE	H	HORIZONTAL	S	SCHEDULE						
APA	AMERICAN PLYWOOD ASSOCIATION	HORIZ	HOLLOW STRUCTURAL SECTION	SCH	SQUARE FOOT						
APROX	APPROXIMATE	HT	HEIGHT	SF	SHEET						
ARCH	ARCHITECTURAL	HWL	HIGH WATER LEVEL	SHT	SIMILAR						
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	I	INTERNATIONAL BUILDING CODE	SIM	SHORT LEGS						
AWS	AMERICAN WELDING SOCIETY	IBC	INTERNATIONAL CODE COUNCIL	SLBB	BACK-TO-BACK						
B		ICC	INTERNATIONAL CODE COUNCIL	SLH	SHORT LEG HORIZONTAL						
B/	BOTTOM OF	IN	INCH	SLV	SHORT LEG VERTICAL						
BLKG	BLOCKING	INT	INTERIOR	SMS	SHEET METAL SCREW						
BLDG	BUILDING	J	JOINT	SQ	SQUARE						
BM	BEAM	JT	JOINT	SS	STAINLESS STEEL						
BM-1	BEAM MEMBER 1	K	1,000 POUNDS	SSD	SATURATED SURFACE DRY						
BN	BOUNDARY NAILING	KIP	KIPS PER SQUARE INCH	SSWD	SACRAMENTO SUBURBAN WATER DISTRICT						
BOT	BOTTOM	KSI	KIPS PER SQUARE INCH	STAG	STAGGER						
BP	BASE PLATE	L	ANGLE	STD	STANDARD						
BS	BOTH SIDES	L, L	POUNDS	STIFF	STIFFENER						
BTWN	BETWEEN	LB(S)	POUND(S) PER SQUARE FOOT	STL	STEEL						
C		LB(SF)	POUND(S) PER SQUARE FOOT	STRUC	STRUCTURE						
C	CHANNEL	LL	LIVE LOAD	SUSP	SUSPENDED						
CBC	CALIFORNIA BUILDING CODE	LLH	LONG LEG HORIZONTAL	SYM	SYMMETRICAL						
CALC'S	CALCULATIONS	LLV	LONG LEG VERTICAL	T	TOP OF						
CC, C/C	CENTER-TO-CENTER	LLBB	LONG LEG BACK-TO-BACK	T/	TOP AND BOTTOM						
CJ	CONSTRUCTION JOINT	LONGIT	LONGITUDINAL	T&B	STRUCTURAL TUBING						
CJP	COMPLETE JOINT PENETRATION	LT	LIGHT	TS	TYPICAL						
CL	CENTERLINE	LW	LIGHT WEIGHT	U							
CLR	CLEAR	M	MATERIAL	UON	UNLESS OTHERWISE NOTED						
CNJ	CONTROL JOINT	MATL	MAXIMUM	UT	ULTRASONIC TESTING						
COL	COLUMN	MAX	MACHINE BOLT	V							
CONC	CONCRETE	MC	MOISTURE CONTENT	VERT	VERTICAL						
CONST	CONSTRUCTION	MC	MISCELLANEOUS CHANNEL	VIF	VERIFY IN FIELD						
CONT	CONTINUOUS	MECH	MECHANICAL	W							
D		MIN	MINIMUM	W/	WITH						
DBL	DOUBLE	MISC	MISCELLANEOUS	W/O	WITHOUT						
DIA	DIAMETER	N	NEW	W	WIDE FLANGE						
DIM	DIMENSION	(N)	NON-DESTRUCTIVE TEST(ING)	WP	WORK POINT						
DL	DEAD LOAD	NDT	NOT IN CONTACT	WT	WEIGHT, STRUCTURAL						
DN	DOWN	NIC	NUMBER	WWF	TEE WALL THICKNESS						
DWG(S)	DRAWINGS	NOM	NOMINAL	Y	WELDED WIRE FABRIC						
E		NS	NEAR SIDE	YD	YARD						
EX, (E)	EXISTING	NSG	NON-SHRINK GROUT								
EA	EACH	NTS	NOT TO SCALE								
EF	EACH FACE	O	ON CENTERS								
EL	ELEVATION	OC	OUTSIDE DIAMETER								
ELEC	ELECTRICAL	OD	OPPOSITE HAND,								
EMBED	EMBEDMENT	OH	OVERHEAD								
EN	EDGE NAILING										
EQ	EQUAL										
EQUIP	EQUIPMENT										
ES	EACH SIDE										
EW	EACH WAY										

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS

REVISIONS				LINE IS 2 INCHES AT FULL SIZE
NO	DATE	DESCRIPTION	BY	SCALE: AS SHOWN
1	-	-	-	DESIGNED: -
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PROJECT-TITLE 1
PROJECT-TITLE 2
STRUCTURAL

**STRUCTURAL ABBREVIATIONS, GENERAL
STRUCTURAL NOTES**

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	S1
SHEET NUMBER	7 OF -



SPECIAL INSPECTION AND TESTING SCHEDULE

1. CONCRETE INSPECTION:

- CONT PER
 CONTINUOUS PLACEMENT INSPECTION EXCEPT $f_c < 2,500$ PSI OR TYPE E CONCRETE
 VERIFY DESIGN MIX
 AT TIME SAMPLE TAKEN FOR STRENGTH, SLUMP, UNIT WEIGHT, AIR AND TEMPERATURE TESTS.
 PROPER CURING AND TEMPERATURE
 BOLTS INSTALLED IN CONCRETE
 REINFORCING PLACEMENT
 FORMWORK
 STRESSING & GROUTING OF TENDONS

- TESTING:**
 4 CYLINDERS PER 100 CUBIC YARDS*
 TEST: 2 @ 7 DAYS, 2 @ 28 DAYS.
 *EACH MIX PLACED, EACH DAY PLACED EXCEPT $f_c < 2,500$ PSI OR TYPE E CONCRETE
 SLUMP TEST - PER 50 CY & AT STRENGTH SAMPLE
 AIR TEST - PER STRENGTH SAMPLES
 SHRINKAGE TEST - 3 SPECIMENS PER STRENGTH SCHEDULE
 UNIT WEIGHT TEST - PER STRENGTH SAMPLES

2. STEEL INSPECTION:

- CONT PER
 HIGH STRENGTH BOLT, NUT AND WASHERS CONFORM TO ASTM STANDARDS SPECIFIED
 BOLT MFR CERTIFICATE OF COMPLIANCE
 BEARING-TYPE CONNECTIONS
 SLIP-CRITICAL CONNECTIONS
 SINGLE PASS FILLET WELDS $\leq 5/16"$
 SINGLE PASS FILLET WELDS $> 5/16"$
 MULTI-PASS FILLET WELDS
 ALL CJP AND PJP GROOVE WELDS
 FLOOR AND ROOF DECK WELDS
 STEEL FRAMING COMPLIANCE W/ CONST DOCUMENTS
 MAGNETIC PARTICLE TESTING 25% OF FILLET WELDS
 UT ON ALL CJP WELDS

3. STRUCTURAL MASONRY $f_m = 1,500$ PSI VERIFICATION OF f_m :

- PRISM TESTS
 PRISM TEST RECORD
 UNIT STRENGTH
 LEVEL I INSPECTION IN ACCORDANCE WITH IBC TABLE 1704.5.1
 LEVEL II INSPECTION IN ACCORDANCE WITH IBC TABLE 1704.5.3

TEST	BEFORE	DURING
PRISMS	<input type="checkbox"/>	<input type="checkbox"/>
UNITS	<input type="checkbox"/>	<input type="checkbox"/> 3/5,000 SF
GROUT	<input type="checkbox"/>	<input type="checkbox"/> 3/WEEK
MORTAR	<input type="checkbox"/>	<input type="checkbox"/> 3/WEEK

4. SOILS INSPECTION AND TESTING:

- CONT PER
 VERIFY MATERIAL BELOW FOOTING IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY
 VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH
 VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT OF CONTROLLED FILL
 PRIOR TO PLACEMENT OF CONTROLLED FILL, VERIFY PROPER SUBGRADE PREPARATION

- 4. SOILS INSPECTION AND TESTING (CONTINUED):**
 CONT PER
 CLASSIFICATION AND TESTING OF CONTROLLED FILL
 EXCAVATION SUPPORT & SHORING
 UNDERPINNING

- 5. SPECIAL CASES ANCHORAGE TO EXISTING CONCRETE/MASONRY (SPEC 05090):**
 CONTINUOUS INSTALLATION INSPECTION
 PROOF LOAD TEST PER SPEC 05090 (SUBMIT TEST LOADS TO ENGINEER PRIOR TO TEST)
 - 10% OF ANCHORS FOR DOWELS
 - 10% OF ANCHORS FOR SILL PLATE BOLTS
 - 50% OF ANCHORS FOR EQUIP ANCHORAGE
 - 100% OF ANCHORS FOR HOLD-DOWN BOLTS
 - 100% FOR ALL OTHER ANCHORS

NOTE: POST-INSTALLED FASTENERS ARE ONLY TO BE INSTALLED WHERE SPECIFICALLY INDICATED AND SHALL RECEIVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH SECTION 05090.

THE FOLLOWING ARE NOT USED:

6. WOOD
 7. PILE FOUNDATIONS
 8. SHOTCRETE
 9. INSULATING CONCRETE FILL
 10. SPRY-APPLIED FIRE RESISTIVE MATERIALS
 11. SMOKE CONTROL SYSTEMS
 12. REINFORCED GYPSUM CONCRETE

SAMPLE SET OF PLANS.
 CUSTOMIZE BASED ON CURRENT
 PROJECT SPECIFICS

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DATE: 00/99/1234

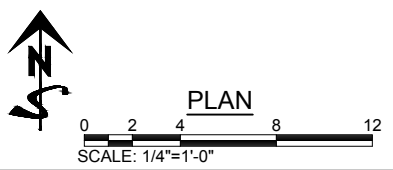
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PROJECT-TITLE 1
 PROJECT-TITLE 2
 STRUCTURAL
SPECIAL INSPECTION AND TESTING SCHEDULE

PROJECT NUMBER -
DATE 06/12/2019
DRAWING NUMBER S2
SHEET NUMBER 8 OF -

SAMPLE SET OF PLANS. CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS



REVISIONS			
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**SACRAMENTO
SUBURBAN
WATER
DISTRICT**
3701 MARCONI AVENUE, SUITE 100
SACRAMENTO, CA 95821
PHONE: 916.972.7171

PROJECT-TITLE 1
PROJECT-TITLE 2
STRUCTURAL

STRUCTURAL PLANS

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	S3
SHEET NUMBER	9 OF -

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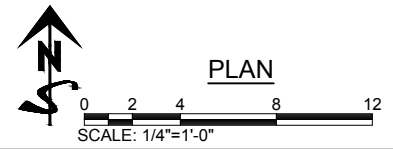
ABBREVIATIONS				PIPING DESIGNATIONS			STANDARD SYMBOLS					
A	AMP	G	GAS	Q	QUICK CONNECT	NEW PIPING	EXISTING PIPING	FUTURE PIPING	JOINTS	EXISTING PLAN	NEW ABOVE GROUND PLAN	NEW UNDER GROUND PLAN
ABAN	ABANDON	G	GAGE, GAUGE	QC	QUANTITY	12" W	12" W	12" W	FLANGED OR GROOVED COUPLING			
AC	ASPHALTIC CONCRETE	G	GALLON	QTY		PIPE SIZE ——— PIPING SYSTEM (SEE SPECS)			MECHANICAL JOINTS			
ACI	AMERICAN CONCRETE INSTITUTE	GALV	GALVANIZED	R	RADIUS	NOTE: SEE PIPING SYSTEM SPECIFICATIONS FOR PIPING MATERIALS LIST, VALVES AND FITTINGS.						
ADDIT	ADDITIONAL	GPM	GALLONS PER MINUTE	R	RIGHT OF WAY	FITTINGS						
AGG	AGGREGATE	GR	GRADE	RC(P)	REINFORCED CONCRETE (PIPE)	FLEXIBLE COUPLING						
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GS	GALVANIZED STEEL	RD	ROOF DRAIN	FLEXIBLE COUPLING ADAPTER						
		GV	GATE VALVE	RED	REDUCER	SCREWED OR SLIP ON JOINTS						
ALUM	ALUMINIUM	H	HEIGHT	REINF	REINFORCED(ING)	SCREWED OR SLIP ON JOINTS						
APPROX	APPROXIMATE	HB	HOSE BIB AND HOSE RACK	REQD	REQUIRED	REDUCER-CONCENTRIC						
ARV	AIR RELEASE VALVE	HDLPE	HIGH-DENSITY LINEAR POLYETHYLENE	RES	RESIDUAL	REDUCER-ECCENTRIC						
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	HORIZ	HORIZONTAL	RPP	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR	SINGLE LINE						
AWS	AMERICAN WELDING SOCIETY	HP	HORSE POWER	S	SOUTH	CROSS						
		HR	HOUR	S	SCHEDULE	ELBOW						
B	BLIND FLANGE	IE	INVERT ELEVATION	SCH	STORM DRAIN	REDUCER-CONCENTRIC						
BF	BLOCKING	INV	INVERT	SD	SECTION	REDUCER-ECCENTRIC						
BLKG	BENCHMARK	IN	INCHES	SECT	SECTION	UNION						
BMK	BEST MANAGEMENT PRACTICE	IN WC	INCHES OF WATER COLUMN	SHT(S)	SHEET(S)	FLEXIBLE COUPLING						
BMP	BOTTOM	IRR, (IG)	IRRIGATION	SIM	SIMILAR	FLANGED COUPLING ADAPTER						
BOT	BACKWASH	J	JUNCTION BOX	SMH	SEWER MANHOLE	FLEXIBLE CONNECTOR						
BW		JT(S)	JOINT(S)	SPEC(S)	SPECIFICATION(S)	GATE VALVE						
		L	LENGTH	SQ	SQUARE	CHECK VALVE						
C	CATCH BASIN	LD	DEVELOPMENT LENGTH	SS	SANITARY SEWER	BUTTERFLY VALVE						
CB	CENTER TO CENTER	M	MODIFIED	SST	STAINLESS STEEL							
IC	CONTROL DENSITY FILL	MB	MACHINE BOLT	STA	STATION							
CFM	CUBIC FEET PER MINUTE	MCC	MOTOR CONTROL CENTER	STD	STANDARD							
CHEM	CHEMICAL	MECH	MECHANICAL	STL	STEEL							
C/L	CENTERLINE	MFR	MANUFACTURER	SSWD	SACRAMENTO SUBURBAN WATER DISTRICT							
CLR	CLEAR	MIN	MINIMUM	T	TOP OF							
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MJ	MECHANICAL JOINT	T/	TEMPORARY							
CMU	CONCRETE MASONRY UNIT	N	NEW	TEL	TELEPHONE							
CO	CLEANOUT	(N)	NORTH	TEMP	TEMPORARY							
COL	COLUMN	NA	NOT APPLICABLE	THK	THICK/THICKNESS							
CONC	CONCRETE	NIC	NOT IN CONTRACT	TOC	TOP OF CONCRETE							
CONST(R)	CONSTRUCTION	NO.	NUMBER	TYP	TYPICAL							
CONT	CONTINUATION	NPT	NATIONAL PIPE THREAD	U	UNDERGROUND							
CPLG	COUPLING	NTS	NOT TO SCALE	UG	UNKNOWN							
		O	ON CENTER	UNK	UNKNOWN							
D	DRAIN	OC	ON CENTER	V	VAULT							
D	DETAIL	OD	OUTSIDE DIAMETER	V	VACUUM							
DET	DOUGLAS FIR PRESSURE TREATED	OF	OVERFLOW	VERT	VERTICAL							
DFPT	DUCTILE IRON	P	PIPE	VFD	VARIABLE FREQUENCY DRIVE							
DI	DIAMETER	PB	PULL BOX	VOL	VOLUME							
DIA	DIMENSION	PCO	PRESSURE CLEANOUT	W, WTR	WATER							
DIM	DUCTILE IRON PIPE	PL	PLATE	W/	WITH							
DIP	DOWN	PO	PUSH ON JOINT	WC	WATER COLUMN							
DN	DRINKING (POTABLE) WATER	PRV	PRESSURE RELIEF VALVE	WL	WATER LINE							
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT	WM	WATER METER							
		PSIG	POUNDS PER SQUARE INCH, GAUGE	WMM	WELDED WIRE MESH							
E	EAST	PT	POINT	W/O	WITHOUT							
E	EACH	PVC	POLYVINYL CHLORIDE	WSP	WELDED STEEL PIPE							
EA	ELEVATION	PVMT	PAVEMENT	WTR	WATER							
EL, (EV)	ELECTRICAL	PW	POTABLE WATER									
ELEC	ELECTRICAL MANHOLE											
EMH	EDGE OF PAVEMENT											
EP	EACH WAY											
EW	EXISTING											
EX, (E)	EXPANSION											
EXP												
F	FUTURE											
(F)	FLANGED COUPLING ADAPTER											
FCA	FLOOR CLEAN OUT											
FCO	FLOOR DRAIN											
FD	FINAL GRADE											
FG	FIRE HYDRANT											
FH	FIGURE											
FIG	FINISH											
FIN	FLOW METER											
FM	FEET PER MINUTE											
FPM	FEET											
FT	FEET BELOW GROUND SURFACE											
FT BGS	FIRE WATER											
FW												

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS



REVISIONS				LINE IS 2 INCHES AT FULL SIZE SCALE: AS SHOWN DESIGNED: - DRAWN: - APPROVED: -	PRELIMINARY DESIGN THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL	 3701 MARCONI AVENUE, SUITE 100 SACRAMENTO, CA 95821 PHONE: 916.972.7171	PROJECT-TITLE 1 PROJECT-TITLE 2 MECHANICAL ABBREVIATIONS, STANDARD SYMBOLS AND DESIGNATIONS	PROJECT NUMBER
NO	DATE	DESCRIPTION	BY					DATE
1	-	-	-					06/12/2019
2	-	-	-					DRAWING NUMBER M1
3	-	-	-					SHEET NUMBER 10 OF -


SAMPLE SET OF PLANS. CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS



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**SACRAMENTO
SUBURBAN
WATER
DISTRICT**

3701 MARCONI AVENUE, SUITE 100
SACRAMENTO, CA 95821
PHONE: 916.972.7171

PROJECT-TITLE 1
PROJECT-TITLE 2
MECHANICAL

MECHANICAL PLANS

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	M2
SHEET NUMBER	11 OF -

N:\CS_PROJECTS\SSWD\1818036-CAD_StandardsZ-SUPPORT\1-ProjectSetup FILENAME: XXXXX-E01.dwg PLOT DATE: 11/4/2019 10:32 AM

ABBREVIATIONS				STANDARD SYMBOLS			
A	AMPERES	O	OPERATOR INTERFACE	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AIC	AMPS INTERRUPTING CAPACITY	OI	OPERATOR INTERFACE PANEL		LIGHTING FIXTURE SYMBOL		TELEPHONE OUTLET, WALL
AI	ANALOG INPUT DRIVE	OIP	OPERATOR INTERFACE PANEL		PANELBOARD		JUNCTION BOX
AO	ANALOG OUTPUT	OL	OVERLOAD DEVICE		CAMERA		GROUND
B		P	PULLBOX		CONTROL PANEL		ALARM HORN
BC	BARE COPPER	PB	PULLBOX		SWITCHBOARD		THERMOSTAT
BP	BOOSTER PUMP	PCC	POINT OF COMMON COUPLING		SMOKE DETECTOR		HEATER, ELECTRIC
BWPS	BACKWASH PUMP STATION	PCRSC	RIGID STEEL PVC COATED POWER FAILURE RELAY		PHASE FAILURE RELAY		CIRCUIT BREAKER OPERATING HANDLE
C	CONDUIT	PFR	POWER FAILURE RELAY		ELAPSED TIME METER		MOTOR, HORSEPOWER SIZE NOTED
CB	CIRCUIT BREAKER	PLC	PROGRAMMABLE CONTROLLER		CONTROL STATION (SEE WIRING DIAGRAMS) COMBINATION STARTER		MOTOR STARTER CONTACTOR COIL
CH	CHANNEL	PNL	PANEL		LOCK OUT STOP PUSHBUTTON SWITCH		MANUAL MOTOR STARTER
CNTL	CONTROL	PM	POWER MONITOR		TRANSFORMER		DISCONNECT SWITCH - NON FUSED
CP	CONTROL PANEL	POC	POINT OF CONNECTION		CONTROL POWER TRANSFORMER		DISCONNECT SWITCH - FUSED
CPT	CONTROL POWER TRANSFORMER	PR	PAIR CABLE		CURRENT TRANSFORMER		DISCONNECT SWITCH WITH LOS PB
CR	CONTROL RELAY	PT	POTENTIAL TRANSFORMER		METER & CURRENT TRANSFORMER		DISCONNECT SWITCH WITH START PB LOS & AUX CONTACT
CT	CURRENT TRANSFORMER	PTT	PUSH TO TEST		SELECTOR SWITCH		INDICATION FUSE HOLDER AMPERE SIZE SHOWN
CU	COPPER	PWR	POWER		TIME DELAY RELAY		CURRENT TRIP RELAY
D	DIGITAL INPUT	R	RED		LATCHING RELAY		FUSE, AMPERE SIZE SHOWN
DI	DIGITAL INPUT	R(R)	EXISTING TO BE REMOVED		CONTROL RELAY		CONDUIT RUN ON/IN WALL OR CEILING
DO	DIGITAL OUTPUT	RSC	RIGID STEEL CONDUIT		INDUSTRIAL RELAY (MACHINE TOOL)		CONDUIT BANK
DVR	DIGITAL VIDEO RECORDER/CONTROLLER	S	SOLENOID PANEL		LIMIT SWITCH		CONDUIT RUN UNDER FLOOR/GROUND
E	EXISTING	SP	SOLENOID OPERATED VALVE		INTRINSICALLY SAFE RELAY		TERMINAL BLOCK POINT
EX, (E)	EXISTING	SPD	SURGE PROTECTION DEVICE		CEILING LIGHT FIXTURE		BRACKET LIGHT FIXTURE
ETM	ELAPSED TIME METER	SOV	SOLENOID OPERATED VALVE		WARNING LIGHT		POLE MOUNTED LIGHT FIXTURE
F	FUSE, FILTER	SWBD	SWITCHBOARD		FLUORESCENT LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING (SHADED FOR NIGHT LIGHT)		FLOOD LIGHT
FVNR	FULL VOLTAGE NON REVERSING	SZ	SIZE		EMERGENCY LIGHT PACK		SINGLE POLE TOGGLE SWITCH, SWITCHING FIXTURES DENOTED
FVR	FULL VOLTAGE REVERSING	T	TERMINAL BOX		THREE WAY TOGGLE SWITCH		THERMAL MANUAL STARTER
G	GROUND	TB	TERMINAL BOX		DUPLEX CONVENIENCE OUTLET		DUPLEX CONVENIENCE RECEPTACLE
GND	GROUND	TDR	TIME DELAY RELAY		FOURPLEX CONVENIENCE RECEPTACLE OUTLET 20A, 125V		DUPLEX CONVENIENCE OUTLET, HALF SWITCHED
G	GREEN	TERM	TERMINAL BOX		MOUNT OUTLET OR SWITCH ABOVE COUNTER OR BACKPLASH		FIRE ALARM COMPONENT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TC	TIME CLOCK		THERMAL MAGNETIC TRANSIENT VOLTAGE SURGE SUPPRESSION		
H	HIGH PRESSURE SODIUM	TSP	TWISTED SHIELDED PAIR		CONDUIT RUN ON/IN WALL OR CEILING		
HPS	HIGH PRESSURE SODIUM	TWP	TWISTED PAIR		CONDUIT RUN UNDER FLOOR/GROUND		
I	INSIDE DIMENSION	TYP	TYPICAL		TERMINAL BLOCK POINT		
ID	INSIDE DIMENSION	U	UNINTERRUPTABLE POWER SUPPLY		CEILING LIGHT FIXTURE		
ISR	INTRINSICALLY SAFE RELAY	UPS	UNINTERRUPTABLE POWER SUPPLY		BRACKET LIGHT FIXTURE		
INST	INSTANTANEOUS	UON	UNLESS OTHERWISE NOTED		WARNING LIGHT		
J	JUNCTION BOX	V	VOLTS, VOLTAGE		POLE MOUNTED LIGHT FIXTURE		
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE		FLUORESCENT LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING (SHADED FOR NIGHT LIGHT)		
K	KILOVOLT AMPERES	W	WEATHERPROOF		FLOOD LIGHT		
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF		EMERGENCY LIGHT PACK		
KW	KILOWATT	X	TRANSFORMER		SINGLE POLE TOGGLE SWITCH, SWITCHING FIXTURES DENOTED		
L	LIGHTNING ARRESTER	XFMR	TRANSFORMER		THREE WAY TOGGLE SWITCH		
LA	LIGHTNING ARRESTER				THERMAL MANUAL STARTER		
LC	LIGHTNING CONTROL				DUPLEX CONVENIENCE OUTLET		
LCP	LOCAL CONTROL PANEL				FOURPLEX CONVENIENCE RECEPTACLE OUTLET 20A, 125V		
LOS	LOCK OFF STOP PUSH BUTTON				DUPLEX CONVENIENCE OUTLET, HALF SWITCHED		
LPU	LINE PROTECTION UNIT				MOUNT OUTLET OR SWITCH ABOVE COUNTER OR BACKPLASH		
M	MILLIAMPERES				FIRE ALARM COMPONENT		
mA	MILLIAMPERES						
MCC	MOTOR CONTROL CENTER						
MCP	MOTOR CIRCUIT PROTECTOR						
MFG	MANUFACTURER						
MOT	MOTOR OVERTEMPERATURE SENSOR						
MSB	MAIN SWITCHBOARD						
MT	EMPTY CONDUIT (W/ PULLROPE)						
N	NEW						
(N)	NEUTRAL						
N/A	NOT APPLICABLE						
NA	NON AUTOMATIC						
NIC	NOT IN CONTRACT						
NL	NIGHT LIGHT						
NP	NAMEPLATE						
NTS	NOT TO SCALE						

SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS

REVISIONS				LINE IS 2 INCHES AT FULL SIZE
NO	DATE	DESCRIPTION	BY	SCALE: AS SHOWN
1	-	-	-	DESIGNED: -
2	-	-	-	DRAWN: -
3	-	-	-	APPROVED: -
4	-	-	-	DATE: 00/99/1234

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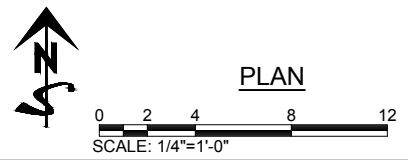
SACRAMENTO SUBURBAN WATER DISTRICT
3701 MARCONI AVENUE, SUITE 100
SACRAMENTO, CA 95821
PHONE: 916.972.7171

PROJECT-TITLE 1
PROJECT-TITLE 2
ELECTRICAL
ABBREVIATIONS AND STANDARD SYMBOLS

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	E1
SHEET NUMBER	12 OF -



SAMPLE SET OF PLANS. CUSTOMIZE BASED ON CURRENT PROJECT SPECIFICS



REVISIONS			
NO	DATE	DESCRIPTION	BY
1	-	-	-
2	-	-	-
3	-	-	-
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SACRAMENTO SUBURBAN WATER DISTRICT
3701 MARCONI AVENUE, SUITE 100
SACRAMENTO, CA 95821
PHONE: 916.972.7171

PROJECT-TITLE 1
PROJECT-TITLE 2
ELECTRICAL

ELECTRICAL PLANS

PROJECT NUMBER	-
DATE	06/12/2019
DRAWING NUMBER	E2
SHEET NUMBER	13 OF -

N:\CS_PROJECTS\SSWD\1818036-CAD_StandardsZ-SUPPORT\1-ProjectSetup FILENAME: XXXXX-101.dwg PLOT DATE: 11/4/2019 10:28 AM

ABBREVIATIONS				VALVE OPERATORS		P&ID INSTRUMENT IDENTIFICATION																																							
A	ACC	AIR CONDITIONING COIL (HEATING AND COOLING)	M	MOTOR (ELECTRIC, PNEUMATIC, HYDRAULIC, ETC.)		DIAPHRAGM		P	PNEUMATIC OPERATOR	CODE LETTER	FIRST LETTER (S)		SUCCEEDING LETTER(S)																																
	ACU	AIR CONDITIONING UNIT (SELF-CONTAINED)	MCC	MOTOR CONTROL CENTER		DIAPHRAGM PRESSURE BALANCED		S	SOLENOID		MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER																														
	AF	AIR FILTER (VENTILATION AND AIR CONDITIONING ONLY)	MEE	MISCELLANEOUS ELECTRICAL EQUIPMENT		MOTOR		SV	SOLENOID VALVE	A	ANALYSIS			ALARM																															
	AHC	AIR HANDLING UNIT WITH COIL	MH	MANHOLE (ELECTRICAL)	EQUIPMENT DESCRIPTION XXXYYY XXX = MECHANICAL EQUIPMENT DESIGNATION YYY = MECHANICAL EQUIPMENT NUMBER X-YYY X = PIPING SIZE INCHES YYY = PROCESS MATERIAL						B	BURNER FLAME																																	
	AHU	AIR HANDLING UNIT (SELF-CONTAINED)	MIE	MISCELLANEOUS INSTRUMENTATION EQUIPMENT							C	CONDUCTIVITY				C	CONTROL	CLOSE																											
	ATS	AUTOMATIC TRANSFER SWITCH	MME	MISCELLANEOUS MECHANICAL EQUIPMENT	D	DENSITY	DIFFERENTIAL			D	DENSITY																																		
			MOP	MOTOR OPERATOR	E	VOLTAGE				E	VOLTAGE		ELEMENT																																
B	B	BLOWER	N	NEW	F	FLOWRATE	RATIO			F	FLOWRATE																																		
	BG	BUTTERFLY GATE	(E)		G	GAUGING				G	GAUGING		GLASS																																
	BOX	HVAC BOX (MIXING, REHEAT, VARIABLE VOLUME)	P	PUMP	H	HAND				H	HAND				HIGH																														
	BP	BACKFLOW PREVENTER	PB	PULL BOX (ELECTRICAL)	I	CURRENT				I	CURRENT		INDICATE																																
C	C	COIL	PBD	PANEL BOARD	J	POWER	SCAN			J	POWER																																		
	CC	COOLING COIL	PCV	PRESSURE CONTROL VALVE (SELF-ACTING)	K	TIME				K	TIME			CONTROL STATION																															
	CDR	CONDENSER	PDCV	PRESSURE DIFFERENTIAL CONTROL VALVE	L	LEVEL				L	LEVEL		LIGHT		LOW																														
	CDU	CONDENSER UNIT	PLC	PROGRAMMABLE LOGIC CONTROLLER	M	MOISTURE	MOMENTARY			M	MOISTURE				MIDDLE																														
	CFR	CHEMICAL FEEDER	PNL	PANEL (CONTROL, PURGE, CABINET, CONSOLE, ETC.)	N	STATUS				N	STATUS																																		
	CHR	CHILLER	PRV	PRESSURE REDUCING VALVE	O	OPERATOR				O	OPERATOR		ORIFICE		OPEN																														
	COL	COLLECTOR	PSV	PRESSURE SAFETY VALVE (VACUUM OR PRESSURE RELIEF)	P	PRESSURE				P	PRESSURE		POINT																																
	COM	COMMUNOTOR	PV	PRESSURE CONTROLLED VALVE (NON SELF-ACTING)	Q	EVENT	TOTALIZE			Q	EVENT																																		
	CP	COMPRESSOR (AIR, GAS, ETC.)	PVL	PRESSURE VESSEL (AIR RECEIVER, HYDRO-PNEUMATIC TANK, ETC.)	R	RESET				R	RESET		RECORD																																
	CPU	COMPUTER	R	RELOCATE	S	SPEED	SAFETY			S	SPEED			SWITCH																															
	CSO	CHEMICAL SYSTEM	(R)		T	TEMPERATURE				T	TEMPERATURE			TRANSMIT																															
	CV	CONTROL VALVE	REC	RECEIVER	U	MULTIVARIABLE				U	MULTIVARIABLE		MULTIFUNCTION																																
D	D	PROCESS DRAINAGE	S	SAMPLE	V	VIBRATION				V	VIBRATION			VALVE																															
	DF	DRINKING FOUNTAIN	SA	STORM DRAINAGE	W	WEIGHT				W	WEIGHT		WELL																																
	DPR	DAMPER	SD	SLUICE GATE	X	STATUS				X	STATUS		TROUBLE/FAIL																																
	DU	DRIVE UNIT	SG	SLIDE GATE	Y	MONITOR/CONTROL				Y	MONITOR/CONTROL			COMPUTE/RELAY																															
E	EX, (E)	EXISTING	SLG	SILENCER	Z	POSITION				Z	POSITION			ACTUATE																															
	E	ENGINE	SLR	SAMPLER	GENERAL INSTRUMENT OR FUNCTION SYMBOLS <table border="1"> <thead> <tr> <th></th> <th>LOCATION NORMALLY ACCESSIBLE TO OPERATOR</th> <th>FIELD MOUNTED</th> <th>LOCATION NORMALLY NOT ACCESSIBLE TO OPERATOR</th> <th>SECONDARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR</th> <th>SECONDARY LOCATION NORMALLY NOT ACCESSIBLE TO OPERATOR</th> </tr> </thead> <tbody> <tr> <td>DISCRETE INSTRUMENTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SHARED DISPLAY SHARED CONTROL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>COMPUTER FUNCTION</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PROGRAMMABLE LOGIC CONTROL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												LOCATION NORMALLY ACCESSIBLE TO OPERATOR	FIELD MOUNTED	LOCATION NORMALLY NOT ACCESSIBLE TO OPERATOR	SECONDARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	SECONDARY LOCATION NORMALLY NOT ACCESSIBLE TO OPERATOR	DISCRETE INSTRUMENTS						SHARED DISPLAY SHARED CONTROL						COMPUTER FUNCTION						PROGRAMMABLE LOGIC CONTROL					
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	EE	ENGINE EXHAUST	SS	STAINLESS STEEL																																									
	EG	ENGINE-GENERATOR MODULE	STP	SOUND TRAP																																									
F	(F)	FUTURE	SV	SOLENOID VALVE																																									
	F	FAN FCU FAN COIL UNIT	SWB	SWITCHBOARD (ELECTRICAL)																																									
	FCV	FLOW CONTROL VALVE	SWGR	SWITCHGEAR																																									
	FLT	FILTER (PIPELINE, ETC., OTHER THAN "AF")	T	TANK (NON-PRESSURIZED TYPE: STORAGE, ETC.)																																									
	FOR	FUEL OIL RETURN	TD	TERMINAL BOX, BOARD, OR CABINET (ELECTRICAL, INSTRUMENTATION, TELEPHONE)																																									
	FOS	FUEL OIL SUPPLY	TEL	TELEPHONE EQUIPMENT																																									
	FV	FLOW CONTROLLED VALVE (NON SELF-ACTING)	TFR	TRANSFORMER																																									
G	GEN	GENERATOR	TM	TIMER																																									
			TRS	TRANSFER SWITCH																																									
H	HC	HEATING COIL	TV	TEMPERATURE CONTROLLED VALVE (NON SELF-ACTING)																																									
	HOA	HAND-OFF-AUTO	TCV	TEMPERATURE CONTROL VALVE (SELF-ACTING)																																									
	HOP	HYDRAULIC OPERATOR	TD	TANK DRAINAGE																																									
	HOR	HAND-OFF-REMOTE	TEL	TELEPHONE EQUIPMENT																																									
	HST	HOIST	TFR	TRANSFORMER																																									
	HTR	HEATER (BASEBOARD, DUCT, ETC.)	TM	TIMER																																									
	HTT	HEAT TRACE TAPE	TRS	TRANSFER SWITCH																																									
	HV	HAND (MANUALLY OPERATED) VALVE	TV	TEMPERATURE CONTROLLED VALVE (NON SELF-ACTING)																																									
I	INJ	INJECTOR (INDUCTOR)	U	UNIT HEATER																																									
			UH	UTILITY STATION																																									
J	JOG	SPRING LOADED ROTATED SWITCH	US	UTILITY STATION																																									
			V	TERMINAL UNIT																																									
K	KV	TIME (K) CONTROLLED VALVE	VAV	VENTILATOR (POWERED, ETC)																																									
			VEN	VENTILATOR (POWERED, ETC)																																									
L	LCV	LEVEL CONTROL VALVE	VFC	VARIABLE FREQUENCY CONTROL																																									
	LOS	LOCK OUT SWITCH	VFD	VARIABLE FREQUENCY DRIVE																																									
	LV	LEVEL CONTROLLED VALVE (NON SELF-ACTING)	W	WATER HEATER																																									
	LVR	LOUVER	WH	WATER HEATER																																									
M			WSU	WATER SOFTENER UNIT																																									

SAMPLE SET OF PLANS.
 CUSTOMIZE BASED ON CURRENT
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REVISIONS <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>				NO	DATE	DESCRIPTION	BY	1	-	-	-	2	-	-	-	3	-	-	-	4	-	-	-	5	-	-	-	LINE IS 2 INCHES AT FULL SIZE SCALE: AS SHOWN DESIGNED: - DRAWN: - APPROVED: -	DATE: 00/99/1234	DATE: 00/99/1234	PRELIMINARY DESIGN THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL	 3701 MARCONI AVENUE, SUITE 100 SACRAMENTO, CA 95821 PHONE: 916.972.7171	PROJECT-TITLE 1 PROJECT-TITLE 2 INSTRUMENTATION ABBREVIATIONS AND PROCESS AND INSTRUMENTATION SYMBOLS	PROJECT NUMBER - DATE 06/12/2019 DRAWING NUMBER 11 SHEET NUMBER 14 OF -
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SCADA	
RTU	



SAMPLE SET OF PLANS.
CUSTOMIZE BASED ON CURRENT
PROJECT SPECIFICS

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