	Λ		D		H (CONT.)				s (CONT)		
A/C	- A - AIR CONDITIONING	D OR $ riangle$	- D - DELTA ANGLE	HPI	- H - (CONT.) HORIZONTAL POINT OF INTERSECTION	- I P	POLE/PRESSURE/PIPE/POWER	- STL	S - (CONT.) STEEL		
AB	ANCHOR BOLT ABANDON	D/W	DRIVEWAY DECIMETER	HPG	HIGH PRESSURE GAS	P/L OR P L	PROPERTY LINE PATENT	STLT	STREET LIGHT STANDARDS & SPECIFICATIONS FOR	SURVEY INFORMATION	
ABAN ABC	ABANDON AGGREGATE BASE COURSE	DEC DEMO	DEMOLITION	HK HT	HOUR HEIGHT	PAT PAVMT	PATENT	SSPWC	PUBLIC WORKS CONSTRUCTION	SURVEYOR	
ABS ABUT	ABSOLUTE ABUTMENT	DEPT DET	DEPARTMENT DETAIL	HV HWY	HOSE VALVE HIGHWAY	PB DC	PULL BOX PRESSURE CLASS	SSTL SUPPL	STAINLESS STEEL SUPPLEMENT	SURVEYING FIRM NAME	
ABV	ABOVE	DEV	DEVELOPMENT	ΠVV Y	HIGHWAY	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	SUR	SURVEY	SURVEYING FIRM ADDRESS	
AC	ASPHALTIC CONCRETE	DI	DROP INLET OR DUCTILE IRON		-1-	PDL	PUMP DISCHARGE LINE	SV	SOLENOID VALVE	BENCHMARK	
ACKV ACP	AUTOMATIC CHECK VALVE ASBESTOS CEMENT PIPE	DIA OR Ø DIAG	DIAMETER DIAGONAL	ID	- I - INSIDE DIAMETER	PE PED	PLAIN END/POLYETHYLENE PIPE PEDESTAL	SW SWP	SIDEWALK OR SOUTHWEST STATE WATER PROJECT	CITY OF SAN BERNARDINO BM GI-29, 2" BRASS	
ACS	ACCESS	DIM	DIMENSION	IN	INCH	PERM	PERMANENT	SY	SQUARE YARD	DISC SET IN BACK OF SW 9.0 FT. NORTH OF	
ADA AD	AMERICAN DISABILITY ACT AREA DRAIN	DIP DIR	DUCTILE IRON PIPE DIRECTION	INST INSTR	INSTALL INSTRUMENT	PERP PG	PERPENDICULAR PRESSURE GAUGE	SYM SYMM	SYMBOL SYMMETRICAL	NORTH EAST BCR OF RIALTO AVE. & 'K' ST. ELEV.= XXXX.XX FT. NGVD29 OR NAVD88	
ADDL	ADDITIONAL	DISCH	DISCHARGE	INSUL	INSULATION	PH	PHASE	SYS	SYSTEM		
ADDM ADJ	ADDENDUM ADJUSTABLE	DIST DISTR	DISTANCE DISTRIBUTE	INT	INTERIOR	PI PHYD	POINT OF INTERSECTION POST HYDRANT			BASIS OF BEARING CENTERLINE OF "J" STREET BEING N00°24'04"E.	
AGGR	AGGREGATE	DIV	DIVISION	INV IPS	INVERT IRON PIPE SIZE	PKG	PACKAGE	_	Т-	CENTERLINE OF "J" STREET BEING NOO" 24 04 E.	
AHD	AHEAD	DL	DEAD LOAD	IRR	IRRIGATION	PKWY	PARKWAY PLACE/PLATE/PARCEL LINE	t	THICKNESS OF WELD	DATE OF SURVEY	
AL ALT	ALUMIINUM ALTERNATE	DMH DN	DROP MANHOLE DOWN			PL PLS	PLACE/PLATE/PARCEL LINE PROFESSIONAL LAND SURVEYOR	Ť	TELEPHONE/TANGENT	MAR 26, 2018	
AMS	ANGLE METER STOP	DR	DRIVE		-J-	PLT	PLATE (DRAWING)	T&B T&G	TOP & BOTTOM TONGUE & GROOVE		
AMT &	AMOUNT AND	DRW DUPL	DRY WELL DUPLICATE	JT	JOINT	PO POLY	PUSH-ON POLYETHYLENE	TAN	TANGENT		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	DWG	DRAWING			PP	POWER POLE	TBE TBM	THREAD BOTH ENDS TEMPORARY BENCH MARK		
ANT AP	ANTENNA ACCESS PANEL	DWR	STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES		V.	PPM DD	PARTS PER MILLION PAIR	TC	TOP OF CURB		
APN	ASSESSOR PARCEL NUMBER		WATER RESOURCES	kα	- K - KILOGRAM	P/R	PATENT RESERVATION	TD	TRENCH DRAIN		
APPROX APPVD	APPROXIMATE APPROVED			km	KILOMETER	PRC	PRECAST REINFORCED PIPE/ POINT OF REVERSE CURVE	TDH TEMP	TOTAL DYNAMIC HEAD TEMPORARY	- X -	
ASPH	ASPHALT	_	- E -			PRELIM	PRELIMINARY	THK	THICK(NESS)	XARM CROSS ARM XFMR TRANSFORMER	
ASSN	ASSOCIATION	E FA	EAST OR EDGE EACH		-1-	PRIM	PRIMARY	THR BLK THRD	THRUST BLOCK THREADED	XFR TRANSFER	
ASSY ASTM	ASSEMBLY AMERICAN SOCIETY OF TESTING MATERIALS	EC	EPOXY COATED/END OF CURB	LAD	LADDER	PROP PRV	PROPOSED PRESSURE REGULATING VALVE	TK	TANK	XSEC CROSS SECTION	
AUX	AUXILIARY	ECC FF	ECCENTRIC EACH FACE	LB OR #	POUND	PS BSE	PRESSURE SWITCH/PUMP STATION	TMH TOE	TOP OF MANHOLE THREAD ONE END		
AV AVAR	AIR VENT/AIR VALVE AIR VACUUM AIR RELEASE VALVE	EL	EPOXY LINED	LDR LEN OR L	LEADER LENGTH OF CURVATURE	PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	TOF	TOP OF FOOTING	- Y -	
AVE	AVENUE	ELEC FLEV	ELECTRICAL ELEVATION	LF	LINEAR FOOT	PT	POINT/POINT OF TANGENCY	TOG TOGR	TOGETHER TOP OF GRATE	YD YARD	
AWG AWWA	AMERICAN WIRE GAUGE AMERICAN WATER WORKS ASSOCIATION	ELL	ELBOW	LG I N	LONG LANE	PV PVC	PLUG VALVE POLYVINYL CHLORIDE PIPE	TOP	TOP OF PIPE	YH YARD HYDRANT YLD YIELD	
/\VVV/\		ENG ENGR	ENGINE/ENGINEERING ENGINEER	LT	LEFT/LIGHT	. v C	. SELT SILEGINDET II E	TOR TOS	TOP OF RIM TOP OF SLAB		
1	D.	EOP	EDGE OF PAVEMENT	LWR	LOWER			TOSTL	TOP OF STEEL		
	- B -	EOS FO	EDGE OF SHOULDER) -	TOSW	TOP OF SIDEWALK		
B/H B&S	BUMPED HEAD BELL & SPIGOT	EQ EQ SP	EQUAL OR EQUATION EQUALLY SPACED		- M -	QCV QDC	QUICK COUPLER VALVE QUICK DISCONNECT COUPLING	TOT TOW	TOTAL TOP OF WALL	NOTE:	
BAL	BALANCE	EQUIP	EQUIPMENT	M	METER	QS QTR	QUAD SHEET	TP	TELEPHONE POLE/TOP OF PIPE	THIS IS A STANDARD ABBREVIATION SHEET.	
BC BCV	BOLT CIRCLE/BACK OF CURB BUTTERFLY CHECK VALVE	EQUIV ESMT	EQUIVALENT EASEMENT	MATL MAX	MATERIAL MAXIMUM	QTR QTY	QUARTER QUANTITY	TR TRANS	TRAIL OF TRACK/TOP OF RIM TRANSITION/TRANSMISSION	SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT ARE NOT USED IN THE PLANS. ALL	
BE	BELL END	EST	ESTIMATE	MC	MORTAR COATED	QΠ	<u> </u>	(TYP)	TYPICAL	ABBREVIATIONS USED ON THE PLANS MUST APPEAR	
BETW BFP	BETWEEN BACKFLOW PREVENTER	ETC EW	ETCETERA EACH WAY	MEAS MECH	MEASUREMENT MECHANICAL					ON THIS SHEET.	
BFV	BUTTERFLY VALVE	EXC	EXCAVATE	MFR	MANUFACTURER	- h	₹ -	<u>-</u>	U -		
BK BL FLC	BOOD/BACK BLIND FLANGE	EXIST EXP JT	EXISTING EXPANSION JOINT	MG	MILLION GALLONS	K (R)	RADIUS RADIAL	UDS	UNIFORM DESIGN STANDARDS FOR SAN		
BL-FLG BLDG	BUILDING	EXT	EXPANSION JOINT EXTENSION	MGD MH	MILLION GALLONS PER DAY MANHOLE	R/W	RIGHT-OF-WAY		BERNARDINO MUNICIPAL WATER DEPARTMENT		
BLK	BLOCK			MIN	MINIMUM	RCB RCP	REINFORCED CONCRETE BOX REINFORCED CONCRETE PIPE	UE UFC	UNDERGROUND ELECTRIC UNIFORM FIRE CODE		
BLM BLVD	BUREAU OF LAND MANAGEMENT BOULEVARD		r	MISC MJ	MISCELLANEOUS MECHANICAL JOINT	RD	ROAD	UG	UNDERGROUND		
BM	BENCHMARK	c/c	- F - FACE TO FACE	MKR	MARKER	REC RECT	RECESSED RECTANGULAR	UGC UGP	UNDERGROUND CONDUIT UNDERGROUND POWER		
BO BOC	BLOW OFF ASSEMBLY BACK OF CURB	F/F FABR	FABRICATION/FABRICATED	ML MLC	MORTAR LINED MORTAR LINED & COATED	RED	REDUCER	UGT	UNDERGROUND TELEPHONE		
BOT	BOTTOM	FC	FACE OF CURB	MON	MONUMENT	REF	REFERENCE (DIMENSION)	UL	UNDERWRITERS LABORATORIES		
BOW BPV	BACK OF WALK BACK PRESSURE VALVE	FD FDN	FLOOR DRAIN FOUNDATION	MOV	MOTOR OPERATED VALVE	REG REINF	REGULATINĠ (REGULATÓR) REINFORCED (REBAR)	UNC UNF	AMERICAN STANDARD UNIFIED COARSE THREAD AMERICAN STANDARD UNIFIED FINE THREAD		
BPV BRG	BEARING	FEXT	FIRE EXTINGUISHER	MPT MSD	MALE PIPE THREAD MAIN SERVICE DISTRIBUTION	REQD	REQUIRED	UNIV	UNIVERSAL		
BS	BACK SIGHT	FF FG	FINISHED FLOOR FINISHED GRADE	MSDS	MATERIAL SAFETY DATA SHEET	RES RET	RESIDENTIAL OR RESERVOIR RETURN	UNO UPC	UNLESS NOTED OTHERWISE UNIFORM PLUMBING CODE		
BUR BV	BURIED BALL VALVE	FH	FIRE HYDRANT	MTD	MOUNTED	REV	REVISION OR REVERSE	UPRR	UNION PACIFIC RAILROAD		
BW	BOTH WAYS/BACK OF SIDEWALK	FIG FL OR F	FIGURE FLOW LINE			RF RHWC	RAISED FACE RIVERSIDE HIGHLAND WATER COMPANY	USGS UTIL	UNITED STATES GEODETIC SURVEY UTILITIES		
1		FLG	FLANGE		- N -	RM	ROOM	UIIL	OTHER		
1	- C -	FLR FMCT	FLOOR FLOW METER COMPOUND TORRENT	N	NORTH	RME RPM	RESIDENTIAL MAIN EXTENSION REVOLUTIONS PER MINUTE				
C/C	CENTER TO CENTER	FMC1 FMH	FLEXIBLE METAL HOSE	N/A NaOCL	NOT APPLICABLE SODIUM HYPOCHLORITE	RPS	REVOLUTIONS PER SECOND	- 	V -		
С	CONDUIT	FN FND	FENCE FOUND	NAVD	NORTH AMERICAN VERTICAL DATUM	RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY RAILROAD	V VAC	VOLT OR VALVE VACUUM		
C&G CAL	CURB & GUTTER CALIBRATE	FO	FIBER OPTIC	NAP NBS	NOT-A-PART NATIONAL BUREAU OF STANDARDS	RSGV	RESILIENT SEALED GATE VALVE	VAR	VARIES		
CAP	CAPACITY	FOC	FACE OF CURB	NC	NATIONAL COURSE	RT	RIGHT/RING TITE	VB VCP	VALVE BOX VITRIFIED CLAY PIPE		
CAV CB	COMBINATION AIR VALVE CATCH BASIN	FOW FPC	FACE OF WALL/FRONT OF WALK FLEXIBLIE PIPE COUPLING	NE NF	NORTHEAST NORTH FACE	RV	RELIEF VALVE	VEL	VELOCITY		
CEM	CEMENT	FPM	FEET PER MINUTE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION			VENT VERT	VENTILATOR VERTICAL		
CI CIP	CAST IRON CAST IRON PIPE/CAST IN PLACE	FPS FPT	FEET PER SECOND FEMALE PIPE THREAD	NG NIC	NATURAL GROUND NOT IN CONTRACT	- 9	5 -	VFD	VARIABLE FREQUENCY DRIVE		
CIR	CIRCLE	FREQ	FREQUENCY	NIP	NOT IN PROJECT	S SA	SOUTH/SLOPE SAMPLE LINE	VG VIIIE	VALLEY GUTTER VERY HIGH FREQUENCY		
CIRCUM CJP	CIRCUMFERENCE COMPLETE JOINT PENETRATION	FRP	FIRE RETARDANT POLYESTER RESIN/ FIBERGLASS REINFORCED POLYMER	NO. # NOM	NUMBER NOMINAL	SBCFCD	SAN BERNARDINO COUTNY FLOOD	VIIF VIB	VIBRATION		
CL OR C	CENTERLINE	FSTNR	FASTENER	NPS	NOMINAL PIPE SIZE	SBMWD	CONTROL DISTRICT SAN BERNARDINO MUNICIPAL WATER	VIN	VINYL VISCOSITY		
CL2 CLG	CHLORINE CEILING	FT	FOOT OR FEET FOOTING	NPT	NATIONAL TAPER PIPE THREAD		DEPARTMENT	VISC VOL	VOLUME		
CLO	CLEANOUT	FUT	FUTURE	NTS NW	NOT TO SCALE NORTHWEST	SBVMWD	SAN BERNARDINO VALLEY MUNICIPAL WATER DEPARTMENT	VPI	VERTICAL POINT OF INTERSECTION		
CLP CLR	CLAMP CLEAR					S/C	SAW CUT	VS VT	VALVE SHEET VENT		
CLSM	CONTROLLED LOW STRENGTH MATERIAL		- G -		- 0 -	SCCP SCH	STEEL CYLINDER CONCRETE PIPE				
CM CMP	CENTIMETER CORRUGATED METAL PIPE	G/B	GRADE BREAK		OUT TO OUT	SD	SCHEDULE STORM DRAIN		W -	FOR EXAMPLE ONLY	
CMU	CONCRETE MASONRY UNIT	Ġ.	GAS	O/O OC OD	ON CENTER	SDWK	SIDEWALK	\\//	W - WITH		DD 01 //D = :
СО	COUNTY/COMPANY/CONTRACT	GA GAL(S)	GAGE GALLON(S)	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	SDR cc	STANDARD DIMENSION RATIO SOUTHEAST	W	WEST/WATER	 THE CONTENTS OF THIS SET OF DRAWINGS WAS CREATED TO F 	
COL COMB	COLUMN COMBINATION	GALV	GALVANÌZÉD	OFC	OFFICE	SEC	SECTION/SECOND(ARY)	W/O	WITHOUT WIDTH	GRAPHIC REPRESENTATION OF SBMWD AUTOCAD STANDARD	
COMM	COMMUNICATION	GENL GIS	GENERAL GEOGRAPHIC INFORMATION SYSTEM	OH OHP	OVER HEAD OVER HEAD POWER	SEG	SEGMENT	WDH	WASTE DRAIN	REQUIREMENTS AND EXPECTATIONS.	
COMPL CON	COMPLETE CONCENTRIC	GND	GROUND	OHTEL	OVER HEAD TELEPHONE	SHLDR SHT	SHOULDER SHEET	WF	WIDE FLANGE WALL HYDRANT	2. ALL TYPES OF INFORMATION ON THIS SET OF DRAWINGS IS RE	OUIRED TO
CONC	CONCRETE	GPD GPH	GALLONS PER DAY GALLONS PER HOUR	OPER	OPERATOR	SID	SPECIAL IMPROVEMENT DISTRICT	vv n WI	WROUGHT IRON	BE PROVIDED AS SHOWN FOR THE PROJECT SUBMITTAL TO BE	
CONN CONST	CONNECTION CONSTRUCTION	GPH GPM	GALLONS PER MINUTE	OPNG OPP	OPENING OPPOSITE	SIG SIM	SIGNAL SIMILAR	WL	WASTE LINE		ACCLEIED
CONT	CONTINUE OR CONTINUOUS	GRD GRT	GRADE GRATE	ORF	ORIFACE	SL	SLOPE	WLD WM	WELDED WATER METER	AND APPROVED (TYP).	
CONTR COORD	CONTRACTOR COORDINATE	GK I GV	GRATE GATE VALVE	ORIG OS&Y	ORIGINAL OUTSIDE SCREW & YOKE	SLV SO	SLEEVE STUBOUT	WP	WORK POINT/WEATHER PROOF		
COR	CORNER			OSHA	OCCUPATIONAL SAFETY AND HEALTH	SPC	STATE PLANE COORDINATES	WS WSP	WATER SURFACE WELDED STEEL PIPE		
CORP STOR	CORPORATION STOP COVER PLATE		- H -	OVFL	ADMINISTRATION OVERFLOW	SPEC(S)	SPECIFICATION(S) SQUARE	WSTP	WATER STOP		
COV PL CPLG	COUPLING	н	- H - HOUSE	OZ	OUNCE	SQ SQ FT	SQUARE FOOT (FEET)	WT WTR	WEIGHT WATER		
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE	п H&V	HEATING & VENTILATION			SQ YD	SQUARE YARD SAMPLE RETURN	WV	WATER VALVE		
CT CTR	COURT CENTER	HARN	HIGH ACCURACY FREQUENCY NETWORK			SRM	SAMPLE RETURN SINGLE RESIDENTIAL MAIN	WWF	WELDED WIRE FABRIC		
CTV	CABLE TELEVISION	HD нв	HOSE BIB HEAD			SS	SANITARY SEWER	WWM	WELDED WIRE MESH		
CU CUST	CUBIC/COPPER CUSTOMER	HDR	HEADER			SSL ST	SANITARY SEWER LATERAL STREET				
CV	CONTROL VALVE	HEX HMWPE	HEXAGONAL HIGH MOLECULAR WEIGHT POLYETHYLENE			STA	STATION				
CW CY	CONTROL VALVE CLOCKWISE CUBIC YARD	HORIZ	HIGH MOLECULAR WEIGHT POLYETHYLENE HORIZONALE			STD STIR	STANDARD STIRRUP				
CY	CYLINDER	HP	HORSEPOWER			JIII	Similar in the second of the s				
					MADY I	D DATE 1		,		<u> </u>	
UNDERGROUND	SERVICE ALERT				MARK REVISIONS APPROVED	D DATE APPROVED DA	BENCHMARK:	AN BEA	PROJECT ROBERT LINDBERG	CITY OF SAIN BERNARDING	DRAWING SCALES:
15000			INSERT CONSULTANT LOGO, NAME, ADDRESS AND PHONE NO. HERE					4	MANAGER: ENGINEERING ASSOCIATE		HORIZ: N/A VERT: N/A
BEFURE	CALL: TOLL FREE	P15	- CONSULTANT LOON. HERE					10/	12/		C.O. NO.:
	1 000 227 2000	IGINEER'S P HERE	INSERT CONTAINS				-	E	ENGINEERING WARREN HUANG, P.E.	PROJECT TITLE	XXXXX
	1-800-227-2600 INSERTENT	P HEIL	ADDING					U	MANAGER: CA. R.C.E. 49208		
		I				1	—		70/	I	C/

ELEV.= XXXX.XX FT.

DESIGNED BY: XX DRAWN BY: XX CHECKED BY: XX DESIGN ENGINEER SBMWD ENGINEER

APPROVED BY:

REGISTERED CIVIL ENGINEER No. XXXXX

TWO WORKING DAYS BEFORE YOU DIG

SHEET **4** OF **XX**C-XXXXX-4-G-G4.DWG

G4

ABBREVIATIONS AND SURVEY INFORMATION

MIGUEL GUERRERO, P.E. CA. R.C.E. 73239

GENERAL MANAGER: