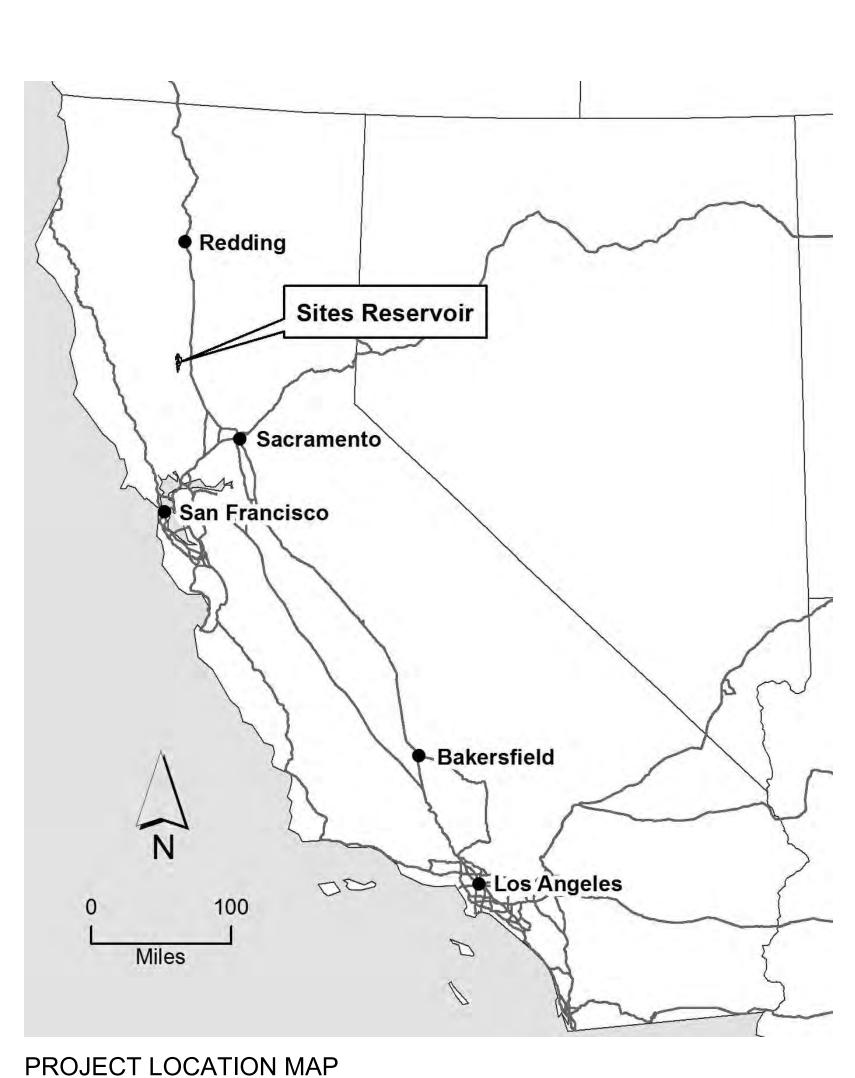
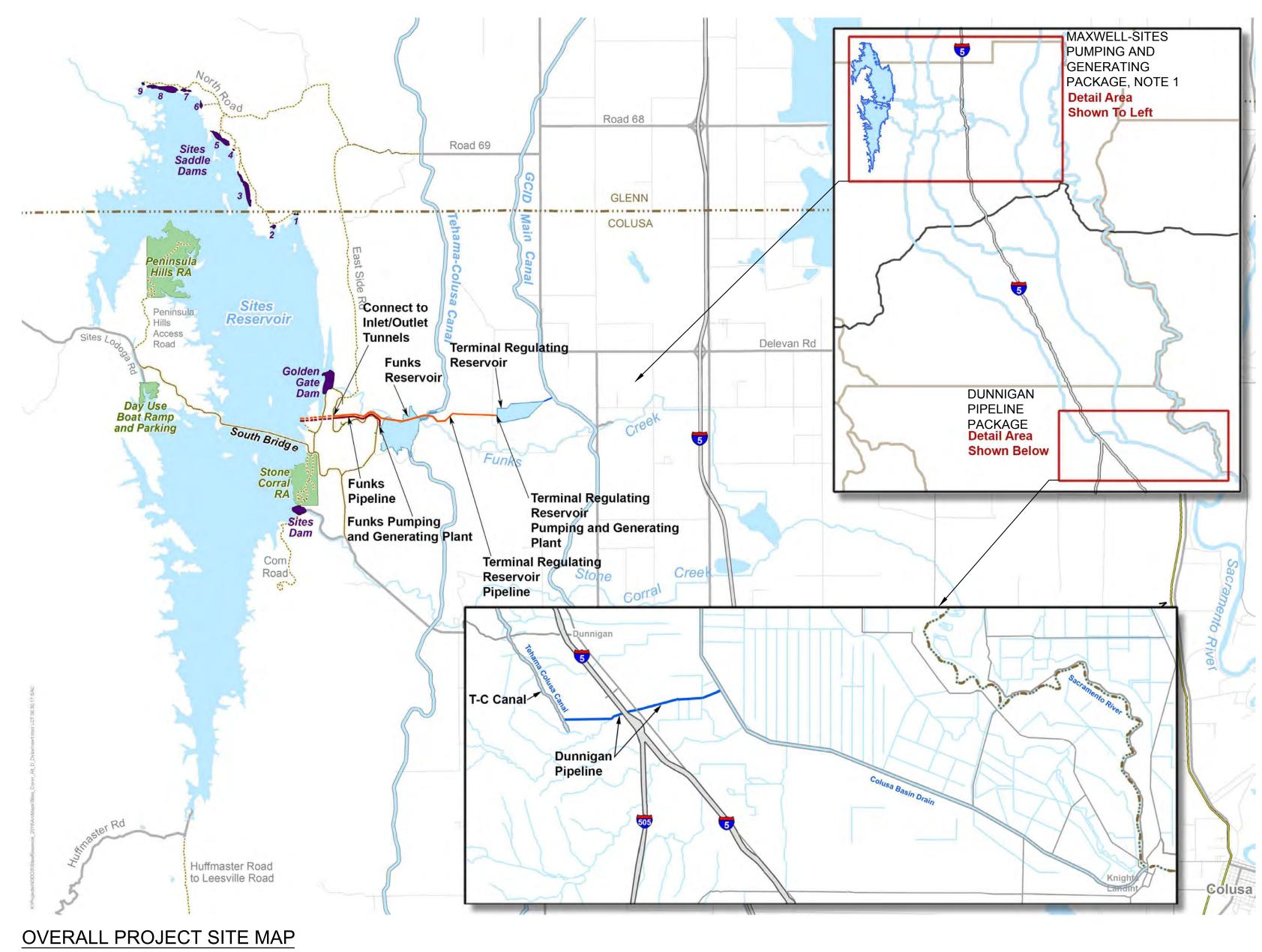
# SITES RESERVOIR DUNNIGAN PIPELINE PROJECT PIPELINE AND FACILITIES 30% DESIGN - CLIENT REVIEW FEBRUARY 5, 2024





NOTE 1: MAXWELL-SITES PUMPING AND GENERATING PACKAGE(S) NOT INCLUDED IN THIS PACKAGE

DESIGNED BY: D. CAVE D. CAVE CHECKED BY: B. MEMEO IN CHARGE: 02-02-2024 DATE BY CHK. APPR. DESCRIPTION

REDDING, CA 96001 (530) 243-5831

REGISTERED **PROFESSIONAL ENGINEER** BRAD L. MEMEO C81778 **CALIFORNIA** 



SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL** COVER SHEET, LOCATION MAP AND SITE MAP **VERIFY SCALES** DRAWING, ADJUST SCALES FOR REDUCED PLOTS

DRAWING NO. DNP-0001-G-0001 1 OF 55

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20	DNP-5020-P-2001	PIPELINE PLAN AND PROFILE STA 9+97.5 TO STA 35+00				
21	DNP-5020-P-2002	PIPELINE PLAN AND PROFILE STA 35+00 TO 60+00				
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24	DNP-5020-P-2005	PIPELINE PLAN AND PROFILE STA 110+00 TO 135+00				
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27	DNP-5020-P-2008	PIPELINE PLAN AND PROFILE STA 185+00 TO 205+00				
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32	DNP-5100-S-2101	T-C CANAL INLET STRUCTURE GROUND LEVEL PLAN				
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34	DNP-5100-D-2001	T-C CANAL INLET STRUCTURE PLAN				
35	DNP-5100-D-3001	T-C CANAL INLET STRUCTURE SECTION				
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38	DNP-5200-G-0001	CBD DISCHARGE STRUCTURE RENDERING				
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40	DNP-5200-S-2001	CBD DISCHARGE STRUCTURE FOUNDATION PLAN				
41	DNP-5200-S-2101	CBD DISCHARGE STRUCTURE GROUND LEVEL PLAN				
42	DNP-5200-S-3001	CBD DISCHARGE STRUCTURE SECTION				
43	DNP-5200-S-3002	CBD DISCHARGE STRUCTURE SECTION  CBD DISCHARGE STRUCTURE SECTION				
44	DNP-5200-S-5001	CBD DISCHARGE STRUCTURE SECTION  CBD DISCHARGE STRUCTURE DETAILS				
	DNP-5200-S-5001					
45 46	DNP-5200-D-2001	CBD DISCHARGE STRUCTURE PLAN CBD DISCHARGE STRUCTURE SECTION				
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52	DNP-5900-C-5002	STANDARD DETAILS				
53	DNP-5900-C-5003	STANDARD DETAILS				
54	DNP-5900-C-5004	STANDARD DETAILS				
55	DNP-5900-C-5005	STANDARD DETAILS				

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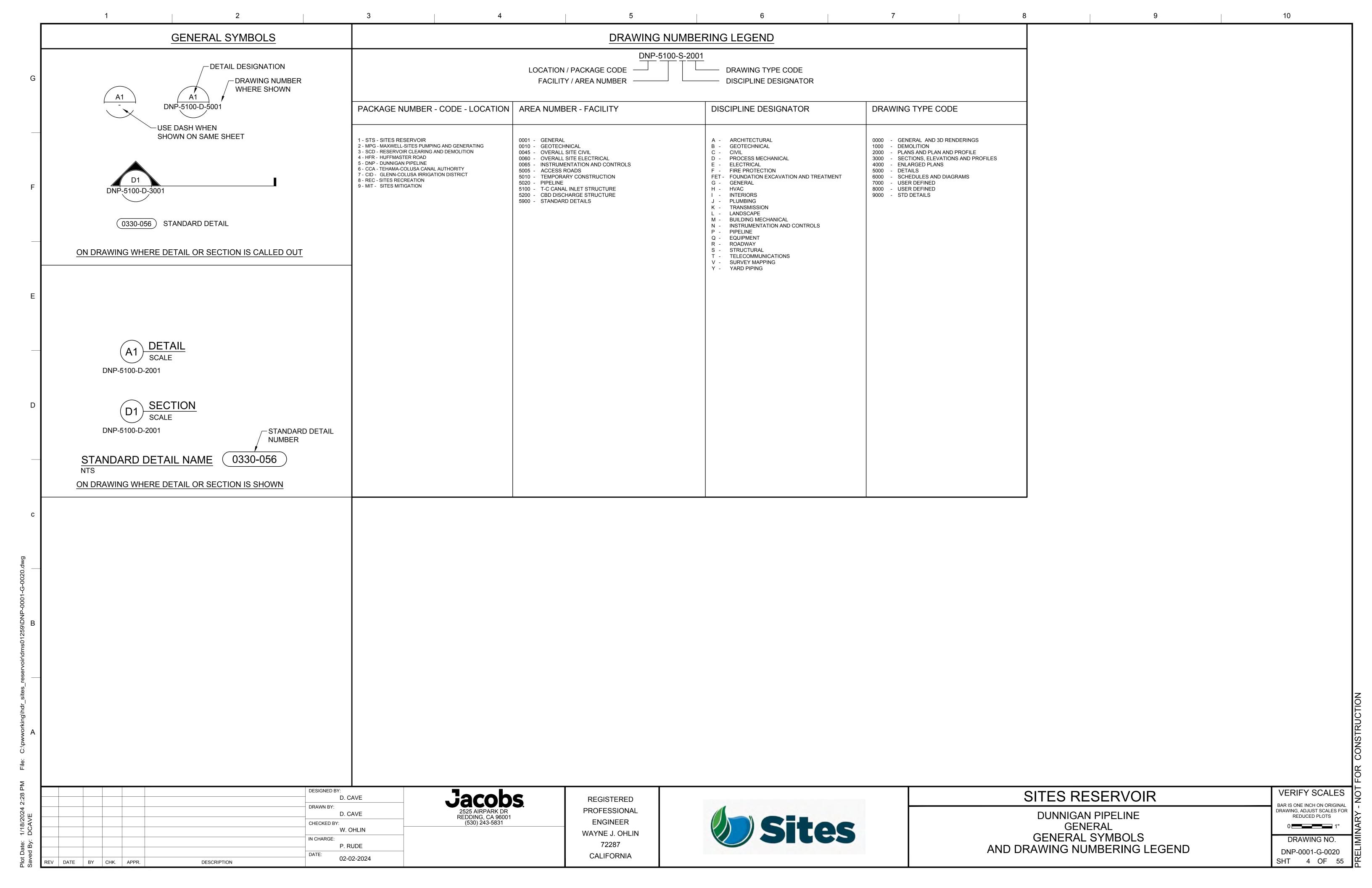
DUNNIGAN PIPELINE GENERAL INDEX OF DRAWINGS

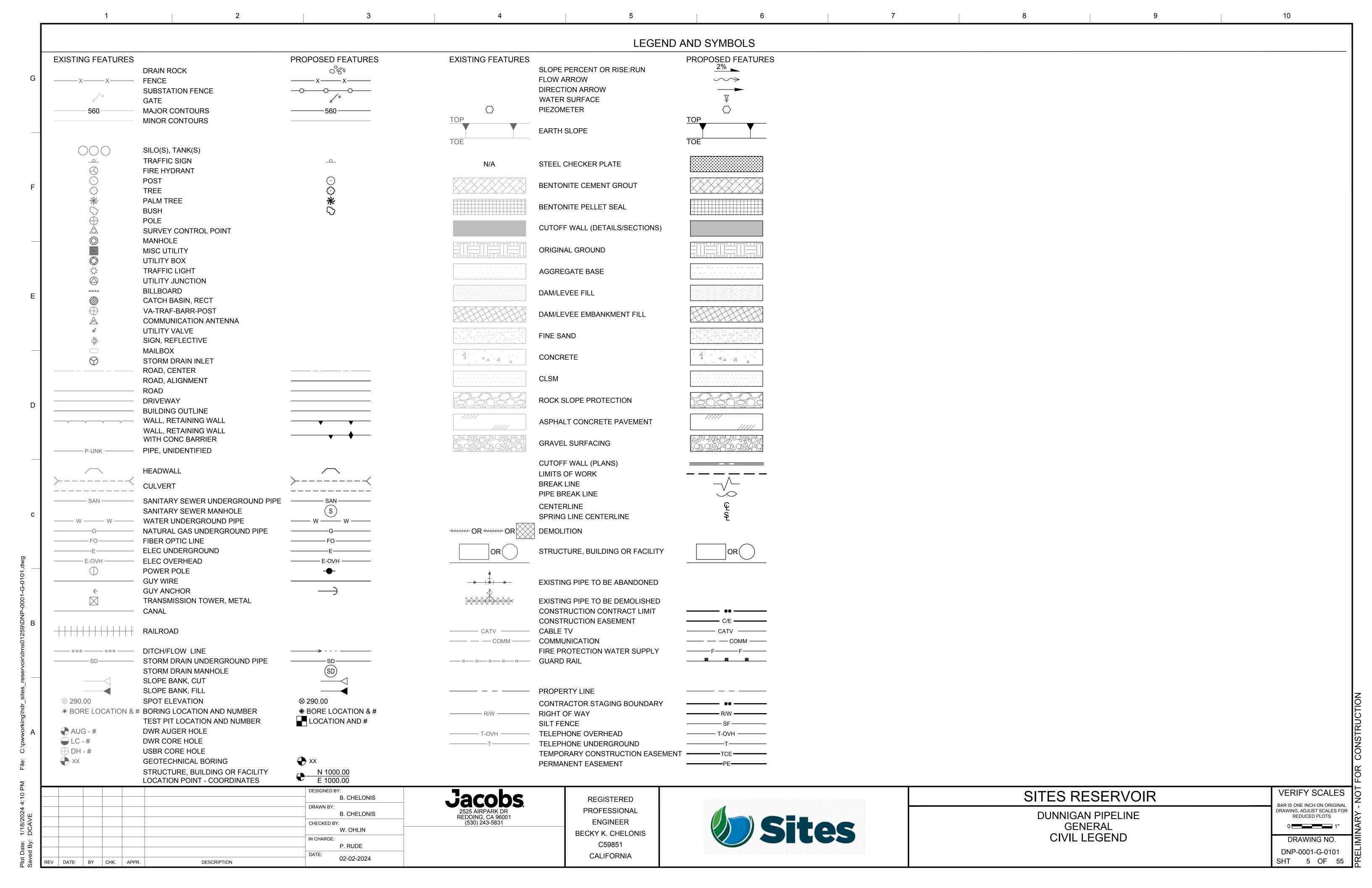
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL

> DRAWING NO. DNP-0001-G-0002 교 SHT 2 OF 55

DRAWING, ADJUST SCALES FOR REDUCED PLOTS

		1	2	3		4		5		6	7	8		9		10
	@ - A/C	AT ANGLE AIR CONDITIONING	CJ CJ CKT	CONTROL JOINT CONSTRUCTION JOINT CIRCUIT	EC ECR EF, E.F.	END HORIZONTAL CURVE END CURB RETURN EACH FACE	GLZ GLZ CMU GND	GLAZING GLAZED CONCRETE MASONRY UNITS GROUND	LT WT LTG LTNG		PC PCC PCF	POINT OF CURVATURE, PIECE POINT OF COMPOUND CURVE, PRECAST CONCRETE POUNDS PER CUBIC FOOT	RVS RVT R/W, R(	REVERSE RIVET DW RIGHT-OF-WAY	US USACE USBR	UPSTREAM U.S. ARMY CORPS OF ENGINEERS UNITED STATES BUREAU OF
	A/C UNIT AB ABUT	AIR CONDITIONING UNIT ANCHOR BOLT, AGGREGATE BASE ABUTMENT	CKT BRKR CL		EG EJ	EXISTING GRADE EXPANSION JOINT ELEVATION - GRADE OR BUILDING	GOVT GPM GPT	GOVERNMENT GALLONS PER MINUTE GYPSUM TILE	LVR LWC LWT	LOUVER LIGHTWEIGHT CONCRETE	PCP PCVC PD	CEMENT PLASTER (PORTLAND) POINT OF COMPOUND VERTICAL CURVE PAVEMENT DRAIN	RW RWC	RELIEF WELL, RAW WATER RAINWATER CONDUCTOR SOUTH	UTIL UV	RECLAMATION UTILITY UNIT VENTILATOR
	ABV AC	ABOVE ALTERNATING CURRENT, ASPHALT CONCRETE BASE	CL-6 CLG CLG HT	CHAIN LINK FENCE (6 FT) CEILING CEILING HEIGHT	ELECT ELEV, EL ELV	ELECTRIC ELEVATION ELECTRIC VAULT	GRAN GR LN GRTG	GRANITE GRADE LINE GRATING	m M&B MAINT		PED PERF	PEDESTAL PERFORATE(D) PERIMETER	SA SAFCA S B	SUPPLY AIR SACRAMENTO AREA FLOOD CONTROL AGENCY SECURITY BARS	V VAC VAR	VOLT VACUUM VARIES, VARNISH
	ACC ACI	ACCESSIBLE AMERICAN CONCRETE INSTITUTE	CLGL CLL	CLEAR GLASS CONTRACT LIMIT LINE	EM EMB	EXPANDED METAL EMBANKMENT	GST GSU	GLAZED STRUCTURAL TILE GLAZED STRUCTURAL UNITS	MACH MAF	MACHINE MILLION ACRE FEET	PG PG&E	PROFILE GRADE PACIFIC GAS & ELECTRIC	SB SBF	SOIL BENTONITE, SPLASH BLOCK SOUTH BAY FOUNDRY	VB VC	VINYL BASE VERTICAL CURVE
	ACR ACS DR ACS PNL	ACRYLIC PLASTIC ACCESS DOOR ACCESS PANEL	CLO CLOS CLR	CLOSET CLOSURE CLEAR, CLEARANCE	EMD EMER ENCL	ESTIMATED MAXIMUM DEMAND EMERGENCY ENCLOSE(URE)	GT GWT GYP	GROUT GLAZED WALL TILE GYPSUM	MAS MATL MAX	MASONRY MATERIAL(S) MAXIMUM	PGP PH PHAR	PUMPING AND GENERATING PLANT PILOT HOLE, PHASE PHARMACY	SC SCB SCCB	SOLID CORE SOIL-CEMENT-BENTONITE SLAG CEMENT-CEMENT-BENTONITE	VCT VCT VD	VINYL COMPOSITION TILE VITRIFIED CLAY TILE VAULT DOOR
	ACSR ACST ACT	ALUMINUM CABLE STEEL REINFORCED ACOUSTIC ACOUSTICAL CEILING TILE	CLS CLSM CLWG	CLASS CONTROLLED LOW STRENGTH MATERIAL CLEAR WIRED GLASS	ENGR ENTR EOD	ENGINEER ENTRANCE, ENTERING EDGE OF DECK	GYP BD GYP PLAS H	GYPSUM BOARD GYPSUM PLASTER HEIGHT	MB MBR MC	MACHINE BOLTS MEMBER MEDICINE CABINET	PI PIPU PIV	POINT OF INTERSECTION PREFAB ISOLATION POWER UNIT POST INDICATING VALVE	SCH, SO SCRN SCT	CHED SCHEDULE SCREEN STRUCTURAL CLAY TILE	VENT VERT VEST	VENTILATOR(TION) VERTICAL VESTIBULE
	ADDM ADH	ADDENDUM ADHESIVE	cm CM	CENTIMETER(S) CORRUGATED METAL	EP EPRF	END POINT, ELECTRICAL PANELBOARD EXPLOSION PROOF	HB HC	HOSE BIBB HOLLOW CORE	MCJ MCO	MASONRY CONTROL JOINT METAL-CASED OPENING	PL P/L	PROPERTY LINE, PLATE PROPERTY LINE	SD SDI	SADDLE DAM, STORM DRAIN STEEL DOOR INSTITUTE	VF VFD	VINYL FABRIC VARIABLE FREQUENCY DRIVE
	ADJ ADO AFF	ADJACENT, ADJOINING, ADJUSTABLE, ADJUST AUTOMATIC DOOR OPERATOR ABOVE FINISHED FLOOR	CMP CMPST CMU	CORRUGATED METAL PIPE COMPOSITE CONCRETE MASONRY UNIT	EPY ESA EQ	EPOXY COATING ENVIRONMENTALLY SENSITIVE AREA EQUAL	HCD HCP HD	HALON CONTAINMENT DAMPER HANDICAPPED HEAD	MDS MECH MECH RN	MECHANICAL MECHANICAL ROOM	PLAM PLAS PLAT	PLASTIC LAMINATE PLASTER PLATFORM	SECT SEQ SFGL	SECTION SEQUENCE SAFETY GLASS	VG VH VJ	VERTICAL GRAIN VINYL HOMOGENEOUS V-JOINT(ED)
	AGGR AHR AHU	AGGREGATE ANCHOR AIR HANDLING UNIT	CND CNL CNR	CONDUIT CONDUCTIVE NEOPRENE LATEX CORNER	EQUIP ESCAL EST	EQUIPMENT ESCALATOR ESTIMATE(D)	HD HDBD HD JT	HEAVY DUTY HARDBOARD HEAD JOINT	MED MEMB MES		PLBG PLF PLG	PLUMBING POUNDS PER LINEAR FOOT PILING	SFTU SFU SG	STRUCTURAL FACING TILE UNIT STRUCTURAL FACING UNIT SHEET GLASS	VNR VOL VR	VENEER VOLUME VAPOR RETARDER
F   /	AI AIC AISC	AREA INLET AMPERE INTERRUPTING CAPACITY AMERICAN INSTITUTE OF STEEL CONSTRUCTION	CNTR CO CO2	COUNTER COUNTY, CLEANOUT CARBON DIOXIDE	EVC E.W. EWC	END VERTICAL CURVE EACH WAY ELECTRIC WATER COOLER	HDR HDW HDWD	HEADER HARDWARE HARDWOOD	MFD MFG MFR		PL GL PLYWD PNL	PLATE GLASS PLYWOOD PANEL	SHLDR SHT SHTHG	SHOULDER SHEET	VRM VS V T	VERMICULITE VENT STACK VOLTAGE TRANSFORMER
	A.L. ALT	ACTIVE LEAF ALTERNATE	COL COM	COLUMN COMMON	EWT EXC	ENTERING WATER TEMPERATURE EXCAVATE, EXCAVATION	HES HEX	HIGH EARLY-STRENGTH CEMENT HEXAGON	MG MGT	MOTOR GENERATOR MATTE-GLAZED TILE	PT POB	PAINT(ED) POINT OF BEGINNING	SHV SIM	SHELVING SIMILAR	VTR VWC	VENT THRU ROOF VINYL WALL COVERING
	ALUM AMB AMP	ALUMINUM AMBIENT AMPERE	COMB COMPT CONC	COMBINED, COMBUSTION COMPARTMENT CONCRETE	EXH EXH A EXST, (E)	EXHAUST EXHAUST AIR EXISTING	HH HK HM	HANDHOLE HOOK(S) HOLLOW METAL	MH MI MIN	MANHOLE MALLEABLE IRON MINIMUM	POC POE POI	POINT OF HORIZONTAL CURVE POINT OF ENDING POINT OF INTERCONNECTION	SJI SKLT SLO	STEEL JOIST INSTITUTE SKYLIGHT SLOPE	W W/ W/OUT	WEST, WATER WITH WITHOUT
	ANOD ANSI APPD	ANODIZE AMERICAN NATIONAL STANDARDS INSTITUTE APPROVED	COND CONN CONSTR	CONDUIT CONNECT CONSTRUCTION	EXP EXP EXP BT	EXPANSION EXPOSED EXPANSION BOLT	HNDRL HORIZ, HO HP	HANDRAIL R HORIZONTAL HINGE POINT, HIGH PRESSURE, HORSEPOWER	MIRR MISC R ML		POL PORC PORT	POLISHED PORCELAIN PORTABLE	SLNT SLV SM	SEALANT SLEEVE SHEET METAL	WB WBL WC	WET BULB WOOD BLOCKING WATER CLOSET
	APPROX ARCH	APPROXIMATE ARCHITECT AMERICAN RIVER FLOOD CONTROL DISTRICT	CONT CONTR	CONTINUE CONTRACTOR	EXT F	EXTERIOR FAHRENHEIT FIRE ALARM	HPT HPU	HIGH POINT HYDRAULIC POWER UNIT HOUR	ML MLDG	MONOLITHIC	POT POVC	POINT OF TANGENT POINT OF VERTICAL CURVE	SMS SOV	SHEET METAL SCREWS SHUT OFF VALVE	W/C WCO	WHEELCHAIR WOOD-CASED OPENING
	ARFCD ARI ARN	AMERICAN REFRIGERATION INSTITUTE ARCADE CREEK NORTH	CONV COORD CORR	CONVENTIONAL COORDINATE CORRIDOR	FA FAC	FRESH AIR FIRE APPARATUS CLOSET	HS HSGYP	HIGH STRENGTH HIGH-STRENGTH GYPSUM PLASTER	MLWK mm MNIC	MILLIMETER(S) MATERIAL NOT IN CONTRACT	PPGL PPM	POWER POLE POLISHED PLATE GLASS PARTS PER MILLION	SPCL SPCL SPD	SPACER SPECIAL SOUNDPROOF DOOR	WDSP WDW	WIDTH, WOOD, WOOD DOOR WASTE DISPOSER WINDOW
E	ARS ARV ASB	ARCADE CREEK SOUTH AIR RELEASE VALVE ASBESTOS	COV CPRS CP	COVER COMPRESSIBLE CATCH POINT	FAI F BRK FC	FRESH AIR INTAKE FIRE BRICK FOOT CANDLE	HSKPG HT HTG	HOUSEKEEPING HEIGHT HEATING	MO MOD		PR PRC PREFAB	PAIR POINT OF REVERSE CURVE PREFABRICATE(D)	SPEC SPF SP FIN	SPECIFICATION, SPECIAL SOUNDPROOF SPECIAL FINISH	WF WGL WH	WIDE FLANGE WIRED GLASS WALL HUNG
	ASC ASPH ASTM	ABOVE SUSPENDED CEILING ASPHALT AMERICAN SOCIETY FOR TESTING AND MATERIALS	CPT CR S CRCMF	CONE PENETRATION TEXT, CARPET CREEK CIRCUMFERENCE	FC BRK FCG FCJ	FACE BRICK FACING FLOOR CONSTRUCTION JOINT	HTR HVAC HW	HEATER HEATING, VENTILATING AND AIR CONDITIONING HEADWALL, HIGH WATER	MOD.	- , -	PREFIN PREFMD PRKG	PREFINISHED PREFORMED PARKING	SPH SPKR SO	SPACE HEATER SPEAKER SQUARE	WH WHB WHM	WATER HEATER WHEEL BUMPER WATT-HOUR METER
	ATC AUTO	ACOUSTICAL TILE CEILING AUTOMATIC AVENUE	CRES CRG	CORROSIVE RESISTANT STEEL CROSS GRAIN	FCO FCU	FLOOR CLEANOUT FAN COIL UNIT	HWM HWY HYDR	HIGH WATER MARK HIGHWAY HYDRAULIC	MP MPG	MOVABLE PARTITION  MAXWELL / SITES PUMPING AND GENERATING	PROJ PRV	PROJECT PRESSURE-REGULATING VALVE	SQHD S&R	SQUARE HEAD SHELF AND ROD	WI WKSH	WROUGHT IRON WORK SHOP
	AVE AVG AWG	AVERAGE AMERICAN WIRE GAUGE	CRS CS CSK	COURSE(S) CAST STONE COUNTERSUNK	FD FDMPR FDTN	FLOOR DRAIN FIRE DAMPER FOUNDATION	HYDR Hz I-80	HERTZ INTERSTATE 80	MR MRB MRD	MARBLE BASE METAL ROOF DECKING	PRVC PS P.S.	POINT OF REVERSE VERTICAL CURVE PUMP STATION, PIPE SPACE PRESSED STEEL	SS SST	SANITARY SEWER, SERVICE SINK, STANDING SEAM (ROOF) STAINLESS STEEL	WM W/O WP	WATER METER, WIRE MESH WITHOUT WATERPROOF(ING)
1	AWT 3B 3-B	ACOUSTICAL WALL TREATMENT BEGINNING OF BRIDGE, BULLETIN BOARD BACK-TO-BACK	CSMT CT	CASEMENT COURT, CERAMIC TILE, CURRENT TRANSFORMER	FE FEB FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER BRACKET FIRE EXTINGUISHER CABINET	IB IC ID	IMPORTED BORROW INTERCOM INSIDE DIAMETER	MS MT MT	MACHINE SCREWS METAL THRESHOLD MOUNT	PS&E PS CONC PSF	PLANS, SPECIFICATIONS AND ESTIMATES PRESTRESSED CONCRETE POUNDS PER SQUARE FOOT	ST STA STD	STREET STATION STANDARD	WP WP WR	WEATHERPROOF WORKING POINT WASTE RECEPTACLE
	BC BD BDRY	BEGIN HORIZONTAL CURVE, BOOKCASE BOARD BOUNDARY	C TO C CTR	CENTER TO CENTER CENTER	FF FF EL	FACTORY FINISH FINISH FLOOR ELEAVATION FINISHED GRADE	IE IESNA	INVERT ELEVATION ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	MTD MTFR MTL	MOUNTED METAL FURRING METAI	PSI PT	POUNDS PER SQUARE INCH POINT OF TANGENCY, PNEUMATIC TUBE POINT	STG STL	SEATING STEEL STORAGE	WRB WS	WARDROBE WATER SURFACE, WATERSTOP WASTE STACK
	BEG BEJ	BEGIN BRICK EXPANSION JOINT	Cu Cu CU FT	CONDENSING UNIT COPPER CUBIC FEET	FGL FH	FIBERGLASS FIRE HYDRANT	ILK IN	INTERLOCK INCH, INCHES	MVBL MULL	MOVABLE MULLION	PT CONC PTD	POST-TENSIONED CONCRETE PAPER TOWEL DISPENSER	STOR ST PR STR	STATIC PRESSURE STRINGER	W.S. WSCT WSD	WAINSCOT WATERSIDE
	BEV BFV BITUM	BEVEL BUTTERFLY VALVE BITUMINOUS	CUH CU YD CUFPB	CABINET UNIT HEATER CUBIC YARDS CENTRAL VALLEY FLOOD PROTECTION BOARD	FH FHC FHMS	FLAT HEAD FIRE HOSE CABINET FLAT HEAD MACHINE SCREW	INCIN INCL INSF	INCINERATOR INCLUDED INSULATING FILL	MUTD MW N	MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES MONITORING WELL NORTH	PTN PTR PV	PARTITION PAPER TOWEL RECEPTACLE PAVED	STRUC' STWY SUB FL	T STRUCTURAL STAIRWAY SUBFLOOR	WSE WSP WT	WATER SURFACE ELEVATION WELDED STEEL PIPE WEIGHT
	BJT BK BKF	BED JOINT BACK BACKFILL	CULV CV CVH	CULVERT CEILING VENT CONDUCTIVE VINYL HOMOGENEOUS	FHR FHS FHWS	FIRE HOSE RACK FIRE HOSE STATION FLAT HEAD WOOD SCREW	INSUL INT INTM	INSULATION INTERIOR INTERMEDIATE	N/A NAD83 NAS	NOT APPLICABLE NORTH AMERICAN DATUM OF 1983 NORTH AREA STREAMS	PVC PVG PVMT	POLYVINYL CHLORIDE PAVING PAVEMENT	SUSP SV	SUSPENDED SHEET VINYL SWITCH	WTH WV W/W	WIDTH WATER VALVE WALL TO WALL
	BL BLDG	BUILDING LINE BUILDING	CVHS	(SHEET TYPE) CENTRAL VALLEY HYDROLOGY STUDY	FIG FIN	FIGURE FINISH	INV I/O	INVERT INLET/OUTLET	NAT NAVD88	NATURAL NORTH AMERICAN VERTICAL DATUM OF 1988	PW PWS	PASS WINDOW PIPELINE WARNING SIGN	SWBD SWPPP	SWITCHBOARD STORM WATER POLLUTION PREVENTION PLAN	WWF WWM	WELDED WIRE FABRIC WELDED WIRE MESH
	BLKT BLVD BLW	BLANKET BOULEVARD BELOW	CW CYL D	COLD WATER CYLINDER DEPTH	FIN FLR FIXT FJT	FINISH FLOOR FIXTURE FLUSH JOINT	IP IPS I.P.S.	IRON PIPE IRON PIPE SIZE INSIDE PIPE SIZE	NEC NEMA		QT. QTR	QUARRY TILE QUART QUARTER	SWR SYM SYMM	SEWER SYMBOL SYMMETRICAL	WWR WY XFMR	WELDED WIRE REINFORCEMENT WAY TRANSFORMER
	BM BMP BO	BENCHMARK BEST MANAGEMENT PRACTICE BOTTOM OF	d D.O.T. DAT	PENNY (AS IN NAIL - 10D) DEPARTMENT OF TRANSPORTATION DATUM	FL FLASH FLR	FLOW LINE FLASHING FLOOR	IR JAN CLO J-BOX	IRRIGATION JANITOR'S CLOSET JUNCTION BOX	ASSOCIA NEMDC NFPA		1/4 RND QTY R	QUARTER ROUND QUANTITY RADIUS, RANGE, RISER	SYNTH SYS T	SYNTHETIC SYSTEM TREAD	XSEC YD YD	CROSS SECTION YARD YARD DRAIN
į i	BOT BP	BOTTOM BEGINNING POINT, BACK PLASTER(ED) BRIDGE	DB DBL	DRY BULB  DOUBLE  R DOUBLE ACTING DOOR	FLEX FLG FLR PL	FLEXIBLE FLOORING FLOOR PLATE	JCT JST	JUNCTION JOIST JOINT	NGS NGVD	NATIONAL GEODETIC SURVEY NATIONAL GEODETIC VERTICAL DATUM	RA RAB RA GR	RETURN AIR RABBETED RETURN AIR GRILLE	TAN TB	TANGENT TOWEL BAR	YR YRS	YEAR YEARS
c l	BRCG BRDG	BRACING BRIDGING	DCJ DCJT	DOWELED CONTROL JOINT DUMMY CONTROL JOINT	FLUOR FN	FLUORESCENT FENCE	KIP KIT	KILOPOUND (1000 POUNDS) KITCHEN	NIC NL	NOT IN CONTRACT NAILABLE	RAR RB	RETURN AIR REGISTER RUBBER BASE, RESILIENT BASE	TBD TC T-C	TO BE DETERMINED TERRA COTTA/ TEHAMA-COLUSA TEHAMA-COLUSA		
	BRG BRG PL BRK	BEARING BEARING PLATE BRICK	DEG DEMO DEPR	DEGREE DEMOLITION DEPRESSION	FNK FO FOC	FUNKS FIBER OPTIC FACE OF CONCRETE	KOP KPL kV	KNOCKOUT PANEL KICKPLATE KILOVOLTS	N.L. N.M.W.S. NM	NEOPRENE LATEX NEW MAX WATER SURFACE NONMETALLIC	RBL RBR RC	RUBBLE STONE RUBBER REMOTE CONTROL	TCCA TCP TEL	TEHAMA-COLUSA CANAL AUTHORITY TRAFFIC CONTROL PLAN TELEPHONE		
	BRKT BRZ BS	BRACKET BRONZE BOTH SIDES	DEPT DET DE	DEPARTMENT DETAIL DRINKING FOUNTAIN	FOF FOM FOS	FACE OF FINISH FACE OF MASONRY FACE OF STUD	kVA kVAR kW	KILOVOLT AMPERES KILOVOLT AMPERES REACTIVE KILOWATT	NO NOM NR	NUMBER, NORMALLY OPEN NOMINAL NOISE REDUCTION	RCP RCVR RD	REINFORCED CONCRETE PIPE RECEIVER ROAD, ROOF DRAIN	TEMP TER TERM	TEMPORARY, TEMPERATURE TERRAZZO TERMINAL		
ž l	BSMT Btu	BASEMENT BRITISH THERMAL UNIT	DH DH	DOUBLE HUNG DUCT HEATER	FP	FIRE PROTECTION / FIREPROOF / FIRE PARTITION	KWY L	KEYWAY LENGTH LABORATORY	NRC N'REQD	NOISE REDUCTION COEFFICIENT NOT REQUIRED	RDG INS RDY	RIGID INSULATION ROADWAY	T&G TG	TONGUE AND GROOVE TOP OF GRADE		
0010	BtuH BTWN BV	BTU PER HOUR BETWEEN BALL VALVE	DIA, Ø DIAG	DRAINAGE INLET, DROP INLET DIAMETER DIAGONAL	FR FRG	FEET PER MINUTE FIRE RESISTANT / FRAME FORGED	LAB LAD LAM	LADDER LAMINATE	NTS O-O OA	OUTSIDE AIR	RECPT REC ROO RECT	RECTIFIER	TH THK	TOGGLE TRUSS HEAD THICK(NESS)		
	BUR BVC BW	BUILT-UP ROOFING BEGIN VERTICAL CURVE BOTH WAYS, BARBED WIRE	DIM DIP DISC	DIMENSION DUCTILE IRON PIPE DISCONNECT	FRMG FRT FS	FRAMING FIRE-RETARDANT FULL SIZE	LAT LAU LAV	LEAVING AIR TEMPERATURE LAUNDRY LAVATORY	OBSC OBW OC	OBSCURE OBSERVATION WINDOW ON CENTER	REF REFL REFR	REFERENCE REFLECT REFRIGERATION	THRES THW TK BD	THRESHOLD TOP OF HEADWALL TACKBOARD		
ď	CAB CAP CARV	CABINET CAPACITY COMBINATION AIR RELEASE VALVE	DISP DIST DISTR PNL	DISPENSER DISTANCE DISTRIBUTION PANEL	FSTNR FT FTG	FASTEN(ER) FEET, FOOT FOOTING	LB LB I BI	LAG BOLT POUND LABEL	OCEW OD OEC	ON CENTER EACH WAY OUTSIDE DIAMETER OFFICE	REG REG REINE	REGISTER REGLET REINFORCE	TKS TO TOC	TACKSTRIP TOP OF TOP OF CONCRETE		
G/65	CB CBD	CATCH BASIN, CEMENT BENTONITE COLUSA BASIN DRAIN	DIV DL	DIVISION DEAD LOAD	FURG FUT	FURRING FUTURE	LBR LC	LUMBER LIGHT CONTROL	OFST OG	OFFSET ORIGINAL GROUND	REL REM	RELOCATE REMOVE(ABLE)	TOL TOP	TOP OF LEVY, TOLERANCE TOP OF PIPE		
ms01	C-C CCS CCT	CENTER-TO-CENTER CALIFORNIA COORDINATE SYSTEM CUBICLE CURTAIN TRACK	DMPF DMPR DMT	DAMPPROOFING DAMPER DEMOUNTABLE	FWC G	FIRE WATER FABRIC WALL COVERING NATURAL GAS	LDCC LDG	LOAD LOW DENSITY CELLULAR CONCRETE LOADING	OGL OH OHW	OBSCURE GLASS OVERHEAD OVERHEAD WIRE	REQD RESIL	REPLACEMENT REQUIRED RESILIENT	TOPO TOS TOT	TOPOGRAPHY TOP OF SLOPE, TOP OF SLAB, TOP OF STEEL TOTAL		
Ę.	CCTV CE CEM	CLOSED CIRCUIT TELEVISION COVER ELEVATION CEMENT	DN DNP DR	DOWN DUNNIGAN PIPELINE DOOR, DRAIN, DRIVE	GA GAL GALV	GAGE GALLON(S) GALVANIZED	LF LG LH	LINEAR FOOT (FEET) LENGTH LEFT HAND(ED)	OHWM OHMS OHWS	ORDINARY HIGH WATER MARK OVALHEAD MACHINE SCREW OVALHEAD WOOD SCREW	RET REV RFG	RETAINING, RETURN REVISED, REVISION ROOFING	TOW TP TPD	TOP OF WALL TELEPHONE POLE TOILET PAPER DISPENSER		
eser —	CEM PLAS CER	CEMENT PLASTER CERAMIC	DRB DR CL	DRAINBOARD DOOR CLOSER	GALV STL GB	GALVANIZED STEEL GRADE BREAK, GRAB BAR	LIN LKR	LINEAR LOCKER LIVE LOAD	OPH OPNG	OPPOSITE HAND OPENING	RH RH	RELATIVE HUMIDITY RIGHT HAND	TPTN TRANS	TOILET PARTITION TRANSITION, TRANSOM, TRANSVERSE		
sites	CFDM CFI CFLG	COFFER DAM CONDUCTIVE FLOORING COUNTERFLASHING	DSM	DOWNSTREAM, DOWNSPOUT, DOUBLE STRENGTH (GLASS) DEEP SOIL MIX	GC GCID GEN	GENERAL CONTRACTOR GLENN-COLUSA IRRIGATION DISTRICT GENERAL	LL LLD LM	LEAD-LINED DOOR LUMEN	OPP OPQ OPS	OPPOSITE OPAQUE OPERATIONS	RK RLG	ROOF HATCH RACK RAILING	TRR TRW TSTAT	TERMINAL REGULATING RESERVOIR TERMINAL REGULATING RESERVOIR WEST THERMOSTAT		
g\hdi	CFM CFS CG	CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CORNER GUARD	DTL DT DVTL	DETAIL DRAIN TILE DOVETAIL	GF GFCI GFE	GROUND FACE GROUND FAULT CIRCUIT INTERRUPTER GOVERNMENT-FURNISHED EQUIPMENT	LMST LNTL LOC	LIMESTONE LINTEL LOCATION	OPT OPTN OS & Y	ONE PASS TRENCH METHOD OPTION OUTSIDE SCREW AND YOKE	RM RND RO	RIVER MILE, ROOM ROUND ROUGH OPENING	TV TYP UC	TELEVISION TYPICAL UNIT COOLER		
orkinę	CH BD CHFR CHIM	CHALKBOARD CHAMFER CHIMNEY	DWG DWLS DWR	DRAWING DOWELS DEPARTMENT OF WATER RESOURCES, DRAWER	GFE/CI GG	GOVERNMENT-FURNISHED EQUIPMENT CONTRACTOR INSTALLED GOLDEN GATE DAM	LOL LONG LP	LAYOUT LINE LONGITUDINAL LIGHTPROOF	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OBSCURE WIRED GLASS	ROW RP RPM	RIGHT OF WAY RADIUS POINT, RETRACTABLE PARTITION REVOLUTIONS PER MINUTE	UG, UG UH UL			
\wd\:	CHK CHNL CHR PL	CHECK CHANNEL	DX DWY	DIRECT EXPANSION DRIVEWAY	GI GIP	GALVANIZED IRON GALVANIZED IRON PIPE	LPD LPL	LIGHT ROOF LIGHTPROOF DOOR LIGHTPROOF LOUVER LOW POINT	P PA	POLE PUBLIC ADDRESS	RPRT RR	RAISED PATTERN RUBBER TILE RAILROAD	ULDC UNEX	URBAN LEVEE DESIGN CRITERIA UNEXCAVATED		
<u></u>	CHR PL CI CIP CIRC	CHROME PLATED CAST IRON, CURB INLET CAST-IN-PLACE CIRCULAR	E EA EAT EB	EAST, EASTING EACH, EXHAUST AIR ENTERING AIR TEMPERATURE END OF BRIDGE	GKT GL GL BLK GLF	GASKET(ED) GLASS GLASS BLOCK GLASS FIBER	LPT LR LS LT	LOW POINT LONG RADIUS, LIVING ROOM LANDSIDE, LAWN SPRINKLER LEFT, LIGHT	PAR PB PBD PBS		RSP RT RTE RTF	ROCK SLOPE PROTECTION RIGHT ROUTE RUBBER TILE FLOOR	UNFIN U.P.R.R UPS UR			
27 PM				DESIGNED BY: D. CAVE		Zacaka	$\overline{}$	DECISTEDED			Т	SITE	<u> </u>	RESERVOIR		VERIFY SCALES
)24 4:i				D. CAVE  DRAWN BY:  D. CAVE		Jacobs. 2525 AIRPARK DR. REPRING CA 20004		REGISTERED PROFESSIONAL	1		F			SAN PIPELINE		BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
/18/2C				CHECKED BY: W. OHLIN		2525 AIRPARK DR REDDING, CA 96001 (530) 243-5831		ENGINEER		Sites			G	ENERAL		REDUCED PLOTS  0 1"
ate: 1 By: C				IN CHARGE: P. RUDE				WAYNE J. OHLIN 72287		91169		Al	3BR	EVIATIONS		DRAWING NO.
Plot Di Saved	DATE	P.RU BY CHK. APPR. DESC	SCRIPTION	DATE: 02-02-2024				CALIFORNIA								DNP-0001-G-0010 SHT 3 OF 55





**GENERAL INFORMATION** 

FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).

DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT. WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED

VERIFY FINAL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH OTHER DISCIPLINE DRAWINGS PRIOR TO CONSTRUCTION OF THESE ELEMENTS.

FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.

DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES. DUCTS, ETC. UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.

VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

#### INSPECTION AND TESTING

SPECIAL INSPECTION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL SCHEDULE BOTH

SPECIFIED CONCRETE AND MASONRY AND OTHER MATERIAL TESTING RELATED TO SPECIAL INSPECTION DURING CONSTRUCTION WILL BE OWNER FURNISHED.

SPECIFIED LABORATORY TEST MIXES AND SIMILAR TEST RESULTS TO VERIFY MATERIAL QUALITY AND CONFORMANCE TO SPECIFICATIONS, AND SUBMITTED FOR REVIEW PRIOR TO ACCEPTANCE FOR USE ON THE PROJECT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL INSPECTION AND TESTS AND STRUCTURAL OBSERVATION (OWNER FURNISHED) IS REQUIRED IN ACCORDANCE WITH CBC SECTIONS 110 AND 1704 AS INDICATED IN THE STATEMENT OF SPECIAL INSPECTIONS. REFER TO DRAWINGS [xxx] TO [xxx].

#### **FOUNDATIONS**

REFER TO GEOTECHNICAL DATA REPORT NO. TBD

EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE AND DAMAGE TO ADJACENT EXISTING STRUCTURES, ROADS, UTILITIES, ETC.

FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS. TEST PITS AND DATA REPORTS.

NO BACKFILL SHALL BE PLACED BEHIND WALLS UNTIL THE WALL'S CONCRETE HAS ATTAINED 100 PERCENT AND TOP SUPPORTING SLAB'S CONCRETE HAS ATTAINED 80 PERCENT OF THEIR SPECIFIED 28 DAY COMPRESSIVE STRENGTH, OR UNTIL TOP-OF-WALL FRAMING SYSTEMS, INCLUDING STEEL DIAPHRAGMS, HAVE BEEN COMPLETED.

NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED. FREE TOP. WALLS UNTIL THE CONCRETE HAS ATTAINED 100 PERCENT OF ITS SPECIFIED 28 DAY COMPRESSIVE STRENGTH.

USE OF EXPLOSIVES IS ONLY ALLOWED WITH WRITTEN PERMISSION FROM ENGINEER.

#### FORMWORK, SHORING, AND BRACING

STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. DESIGN SHOWN DOES NOT INCLUDE NECESSARY COMPONENTS OR EQUIPMENT FOR STABILITY OF THE STRUCTURES DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.

TEMPORARY SHORING SHALL REMAIN IN PLACE UNTIL ELEVATED CONCRETE FLOOR OR SLABS HAVE REACHED 80 PERCENT OF THE 28 DAY COMPRESSIVE STRENGTH AS DETERMINED BY FIELD CYLINDER BREAKS.

"BURY" BARS OR "CARRIER" BARS ARE NOT ALLOWED FOR THE BOTTOM MATS OF REINFORCING IN ALL ELEVATED SLABS AND ARE NOT ALLOWED FOR THE TOP MATS OF REINFORCING IN FI FVATED SLABS LESS THAN 12 INCHES THICK

#### CONCRETE REINFORCING

REINFORCING STEEL:

TYPICAL: ASTM A615, GRADE 60 WELDED: ASTM A706. GRADE 60

FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

CONCRETE COVER FOR REINFORCING, UNLESS SHOWN OTHERWISE, SHALL BE: WHEN CAST AGAINST EARTH:

INTERIOR, DRY, HUMIDITY CONTROLLED AREAS: WALLS AND SLABS: 3/4" BEAM STIRRUPS AND COLUMN TIES: 1 1/2" OTHER CONCRETE SURFACES:

REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING STANDARD DETAIL. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.

90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 318 STANDARD HOOKS

WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS OR PILASTERS FOOTINGS.

LAP VERTICAL WALL BARS WITH DOWELS FROM BASE SLABS AND EXTEND INTO TOP FACE OF ROOF SLABS AND LAP WITH TOP SLAB REINFORCEMENT. PROVIDE A MINIMUM OF FOUR FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL SHOWN OR REQUIRED BY NOTES ABOVE

8. LOCATE ELEVATED SLAB AND BEAM TOP BAR SPLICES AT MIDSPAN AND BOTTOM BAR SPLICES AT SUPPORTS.

REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED

REFER TO OPENING REINFORCING STANDARD DETAILS.

REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE	E DESIGN STRE	NGTH =	4,500 P	SI **	GRADE 60 REINFORCING STEEL					
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11	
LAP SPLICE	E LENGTH ***									
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-1"	3'-0"	5'-2"	6'-8"	8'-6"	10'-10"	13'-4"
= 3"	OTHER BAR	1'-4"	1'-4"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-0"	2'-5"	3'-10"	5'-0"	6'-5"	8'-1"	10'-0"
= 4"	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
SPACING	TOP BAR ★	1'-4"	1'-8"	2'-0"	2'-5"	3'-6"	4'-0"	5'-0"	6'-2"	7'-5"
≥ 6"	OTHER BAR	1'-4"	1'-4"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
EMBEDME	NT LENGTH									
SPACING	TOP BAR ★	1'-0"	1'-3"	1'-8"	2'-4"	4'-0"	5'-2"	6'-7"	8'-4"	10'-3"
= 3"	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-10"	3'-1"	4'-0"	5'-1"	6'-5"	7'-11"
SPACING	TOP BAR ★	1'-0"	1'-3"	1'-7"	1'-10"	3'-0"	3'-11"	4'-11"	6'-3"	7'-8"
= 4"	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-4"	3'-0"	3'-10"	4'-10"	5'-11"
SPACING	TOP BAR *	1'-0"	1'-3"	1'-7"	1'-10"	2'-9"	3'-1"	3'-10"	4'-9"	5'-8"
≥ 6"	OTHER BAR	1'-0"	1'-0"	1'-3"	1'-5"	2'-1"	2'-5"	3'-0"	3'-8"	4'-5"

TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

\*\* WHERE 3,000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16%.

LAP LENGTHS ARE BASED ON MINIMUM CONCRETE COVER OF 2". LONGER LENGTHS ARE REQUIRED FOR CONCRETE COVER LESS THAN 2".

DATE: 02-02-2024 DESCRIPTION DATE BY CHK. APPR.

**Jacobs** REDDING, CA 96001 (530) 243-5831

REGISTERED **PROFESSIONAL ENGINEER** JEREMY KELLOGG **CALIFORNIA** 



SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL** STRUCTURAL NOTES 1

**VERIFY SCALES** BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

> DRAWING NO. DNP-0001-G-0301 SHT

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CAST IN PLACE CONCRETE WELDING **DEFERRED SUBMITTALS** WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION: 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS): D1.1. STRUCTURAL WELDING CODE – STEEL **HYDRAULIC STRUCTURES:** 4,500 PSI 3,500 PSI CONCRETE FILL AND ENCASEMENTS: D1.2, STRUCTURAL WELDING CODE – ALUMINUM ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK. G D1.3, STRUCTURAL WELDING CODE – SHEET STEEL D1.4, STRUCUTRAL WELDING CODE - REINFORCING STEEL 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS FOR ACI 318 AND ACI 350): **HYDRAULIC STRUCTURES:** 5,000 PSI D1.6, STRUCTURAL WELDING CODE - STAINLESS STEEL CONCRETE FILL AND ENCASEMENTS: 4.000 PSI 2. REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 CLAUSE 7.25. REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE. CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN WALLS AND SLABS OF WATER HOLDING BASINS AND BELOW GRADE STRUCTURES UNLESS USE INTERMITTENT WELDS AND A LOW HEAT INPUT WELDING PROCESS AT FIELD WELDS OF EMBED PLATES AND SPECIFICALLY NOTED OTHERWISE. ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE 4. BUTT JOINT AND GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE. LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER. STRUCTURAL STEEL AND METAL FABRICATIONS ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: PLACING ADJACENT CONCRETE, EXPOSING CLEAN AGGREGATE OF 1/4" AMPLITUDE SOLIDLY W-SHAPES AND CHANNELS A992 EMBEDDED IN MORTAR MIX. MISCELLANEOUS SHAPES INCLUDING OR ANCHURAGE SYSTEM CALCULATIONS ANGLES, PLATES, ETC. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, SQUARE OR RECTANGULAR STEEL TUBING A500, GRADE C CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE. STEEL PIPE A53, GRADE B STAINLESS STEEL SHAPES A276 NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE. 2. ALUMINUM SHALL CONFORM TO THE FOLLOWING STANDARDS: STRUCTURAL SHAPES CONDUIT SHALL NOT BE PLACED PARALLEL WITH BEAM OR COLUMN REINFORCEMENT UNLESS B209 PLATES SPECIFICALLY INDICATED IN DRAWINGS. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL PATCH FORM TIE HOLES IN ACCORDANCE WITH STANDARD DETAILS. OF STEEL CONSTRUCTION. CURRENT EDITION. AND CURRENT OSHA STANDARDS. FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE: UNLESS SHOWN OTHERWISE F3125, GRADE A325, TYPE1 ANCHOR BOLTS (AB) STAINLESS STEEL F593, AISI TYPE 304 OR 316, CONDITION CW STEEL F1554. GR 36 GALVANIZED STEEL F1554, GR 36 / A153 MACHINE BOLTS (MB) A307, GRADE B 5. ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT 6. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE WRITTEN APPROVAL OF JACOBS. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED TO ASTM A123 UNLESS NOTED OTHERWISE. MEMBERS THAT ARE WELDED AFTER GALVANIZING SHALL BE TOUCHED UP WITH A ZINC RICH COATING AFTER COMPLETIONS AND INSPECTION OF THE WELD. **DESIGNED BY:** SITES RESERVOIR J. KELLOGG **REGISTERED PROFESSIONAL** Sites **DUNNIGAN PIPELINE** D. CAVE REDDING, CA 96001 **ENGINEER** (530) 243-5831 **GENERAL** H. HENRIKSON JEREMY KELLOGG STRUCTURAL NOTES 2 IN CHARGE: **CALIFORNIA** 02-02-2024 DESCRIPTION DATE BY CHK. APPR

DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR

2. THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, SUBMIT THE

SPECIFICATION SECTION	ITEM
01 88 15	ANCHORAGE AND BRACING
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

**VERIFY SCALES** 

BAR IS ONE INCH ON ORIGINA

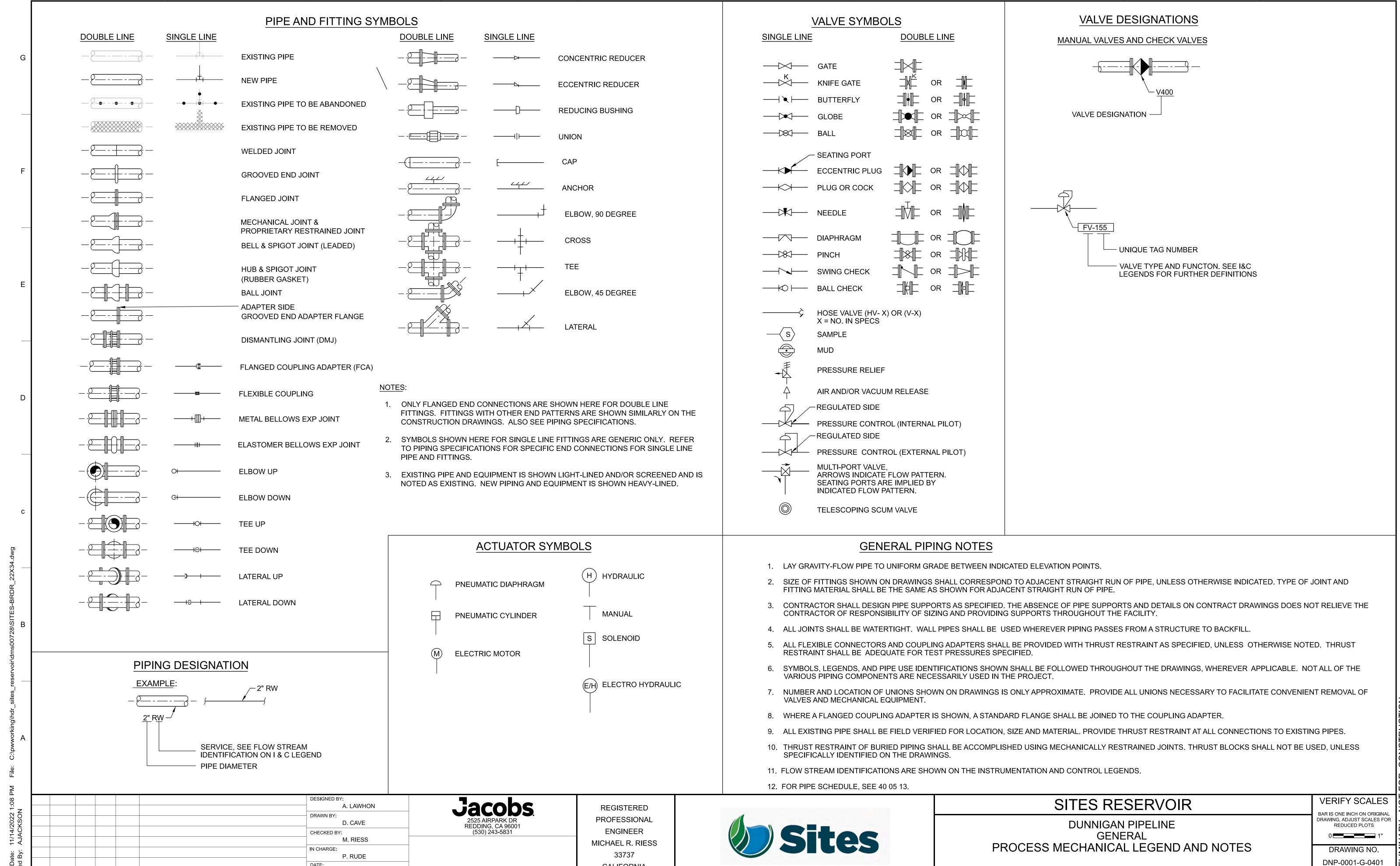
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DNP-0001-G-0302

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REDUCED PLOTS



**CALIFORNIA** 

02-02-2024

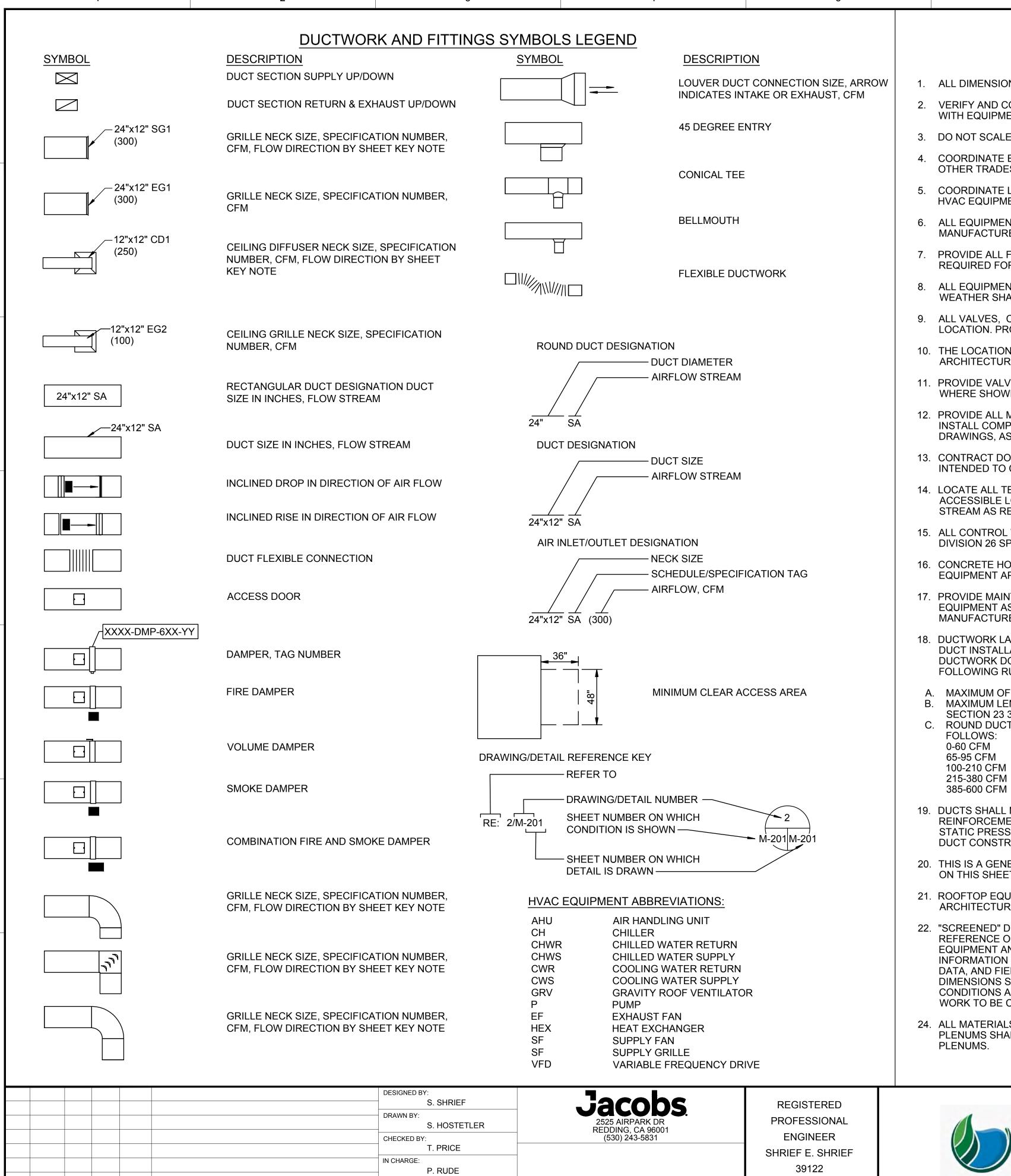
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SHT 8 OF 55

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02-02-2024

**DESCRIPTION** 

DATE BY CHK. APPR.

#### GENERAL HVAC NOTES

- 1. ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED.
- VERIFY AND COORDINATE EQUIPMENT LAYOUT, SIZE, AND CONNECTING SERVICES WITH EQUIPMENT ACTUALLY SELECTED FOR INSTALLATION
- 3. DO NOT SCALE DUCTWORK AND EQUIPMENT FOR SIZE
- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEMS WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION.
- COORDINATE LOCATION AND SIZE OF OPENINGS AND SUPPORTS BASED ON APPROVED HVAC EQUIPMENT, DUCT AND PIPING SHOP DRAWINGS.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- 7. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
- 8. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES OR MATERIAL EXPOSED TO THE WEATHER SHALL BE SEALED WATERTIGHT
- ALL VALVES, CONTROLS, DAMPERS, FANS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATION, PROVIDE HINGED ACCESS DOOR WHERE REQUIRED.
- 10. THE LOCATION OF CEILING AIR INLETS AND OUTLETS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- 11. PROVIDE VALVED DRAINS AT LOW POINTS, ALL AIR VENTS, WHERE SPECIFIED AND WHERE SHOWN ON DRAWINGS AND STANDARD DETAILS.
- 12. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 13. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- 14. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP-OR DOWN STREAM AS RECOMMENDED BY MANUFACTURER TO ACHIEVE PUBLISHED ACCURACY.
- 15. ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 SPECIFICATIONS.
- 16. CONCRETE HOUSEKEEPING PADS SHALL BE SIZED APPROPRIATELY FOR ACTUAL EQUIPMENT APPROVED FOR INSTALLATION.
- 17. PROVIDE MAINTENANCE AND SAFETY CLEARANCES AROUND EACH TYPE OF HVAC EQUIPMENT AS SHOWN. SPECIFIED OR OTHERWISE RECOMMENDED BY THE MANUFACTURER.
- 18. DUCTWORK LAYOUT IS DIAGRAMMATIC ONLY. IN THE PROCESS TO COORDINATE THE DUCT INSTALLATION WITH OTHER TRADES. THE CONTRACTOR MAY REARRANGE THE DUCTWORK DOWNSTREAM OF VAV TERMINAL UNIT FOR AN OPTIMAL LAYOUT. THE FOLLOWING RULES SHALL FOLLOWED.
- MAXIMUM OF FIVE DUCTS CAN BE CONNECTED TO THE VAV DISCHARGE PLENUM. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED LENGTH SPECIFIED IN
- **SECTION 23 31 13. PART 3.** C. ROUND DUCT SIZE FOR THE TOTAL FLOW THROUGH THE BRANCH SHALL BE AS

FOLLOWS:			
0-60 CFM	5 INCH	605-900 CFM	14 INCH
65-95 CFM	6 INCH	905-1300 CFM	16 INCH
100-210 CFM	8 INCH	1305-1800 CFM	18 INCH
215-380 CFM	10 INCH	1805-2300 CFM	20 INCH
385-600 CFM	12 INCH		

- 19. DUCTS SHALL NOT BE REINFORCED WITH TIE RODS OR OTHER INTERNAL REINFORCEMENT EXCEPT FOR DUCT DIMENSIONS GREATER THAN 85 INCH AND STATIC PRESSURE IN EXCESS OF 6 INCHES WG, AS REQUIRED BY SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE". THIRD EDITION.
- 20. THIS IS A GENERAL LEGEND SHEET FOR HVAC DRAWINGS. SOME ITEMS CONTAINED ON THIS SHEET MAY NOT BE USED ON THIS SPECIFIC PROJECT
- 21. ROOFTOP EQUIPMENT CURBS ARE SPECIFIED IN SECTION 23 31 13. SEE ARCHITECTURAL DETAILS FOR FLASHING REQUIREMENTS.
- 22. "SCREENED" DELINEATION DENOTES EXISTING AND NEW FACILITIES AND IS FOR REFERENCE ONLY. "LIGHT" LINE DELINEATION DENOTES EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. EXISTING FACILITY AND MECHANICAL SYSTEMS INFORMATION WAS TAKEN FROM PREVIOUS DRAWINGS, CONSTRUCTION RECORDS, DATA, AND FIELD SURVEY INFORMATION. ACTUAL LOCATION, ARRANGEMENT, AND DIMENSIONS SHALL BE FIELD VERIFIED AND WORK INSTALLED TO MEET ACTUAL CONDITIONS AND LOCATIONS ENCOUNTERED. "BOLD" (DARK) DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
- 24. ALL MATERIALS, FITTINGS, COVERS, AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE AND UL LISTED FOR USE IN RETURN AIR PLENUMS.

- 25. ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RESISTANCE RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOP SYSTEMS. EQUIPMENT AND ACCESSORIES TO RESIST THE PASSAGE OF FIRE, SMOKE AND OTHER GASES. THE ORIGINAL FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED SHALL BE MAINTAINED FOR ALL TYPES OF PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS.
- 26. METAL ROOF DECKING OR BOTTOM CHORD OF BAR JOISTS SHALL NOT BE USED FOR THE SUPPORT OF EQUIPMENT, PIPING, OR DUCTWORK UNLESS APPROVED BY THE REGISTERED STRUCTURAL DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- 27. ALL HANGERS, BRACKETS, OR BRACES FOR DUCTWORK, EQUIPMENT, AND PIPING ARE GENERALLY NOT INDICATED ON THE DRAWINGS. REFER TO SECTION 23 31 13 AND STANDARD DETAILS FOR SUPPORT REQUIREMENTS NOT SHOWN ON THE PLANS.
- 28. FIELD ROUTED PIPING AND CONDUIT INCLUDING BUT NOT LIMITED TO CONDENSATE, REFRIGERANT AND WIRING FOR H VAC EQUIPMENT AND CONTROLS SHALL NOT CAUSE A TRIPPING HAZARD OR HEAD KNOCKING
- 29. ALL PIPING AND DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE WITH A MINIMUM HEIGHT OF 8'-0" ABOVE THE WALKING SURFACE UNLESS OTHERWISE INDICATED BY A CENTERLINE, INVERT, OR BOTTOM OF DUCT ELEVATION.
- 30. PIPING AND DUCTWORK INSTALLED ABOVE SUSPENDED CEILINGS SHALL BE INSTALLED TO ALLOW A MINIMUM 6 INCH CLEARANCE BETWEEN THE TOP OF CEILING ASSEMBLY AND PIPING, BOTTOM OF THE DUCT, OR BOTTOM OF SUSPENDED EQUIPMENT.
- 31. DUCTWORK SHALL BE FABRICATED, REINFORCED, SUPPORTED AND SEALED FOR OPERATING PRESSURES INDICATED IN THE SPECIFICATIONS FOR THE EQUIPMENT IT SERVES. ALL DUCTWORK SHALL HAVE A MINIMUM SMACNA PRESSURE CLASSIFICATION OF 1 INCH.
- 32. DUCT SIZES INDICATED ARE CLEAR DIMENSIONS INSIDE THE DUCT OR DUCT LINING. SHEET METAL SIZES ARE LARGER FOR INTERNALLY LINED DUCTWORK.
- 33. MINIMUM INSULATION THICKNESSES FOR DUCTWORK SHALL BE AS INDICATED IN THE SPECIFICATIONS.
- 34. DUCT CONNECTIONS TO EQUIPMENT, PIPING SIZES TO EQUIPMENT, AND EQUIPMENT SUPPORTS SHALL BE VERIFIED AND ADJUSTED TO MATCH ACTUAL EQUIPMENT SELECTED FOR INSTALLATION
- 35. THE LOCATION OF PIPING AND VALVES TO THE AIR HANDLING AND AIR CONDITIONING EQUIPMENT SHALL NOT INTERFERE WITH FILTER REMOVAL. AIR HANDLING EQUIPMENT SERVICING, OR ELECTRICAL PANEL CLEARANCES.
- 36. ROOFTOP EQUIPMENT SHALL NOT BE LOCATED SUCH THAT ACCESS TO CONTROLS AND TO PERFORM SERVICE FOR EQUIPMENT IS LOCATED WITHIN 10 FEET OF THE BUILDING EDGE UNLESS THE PARAPET IS 42 INCHES HIGH OR HIGHER.
- 37. CONTROL DAMPER SIZES SHALL MATCH DIMENSIONS OF ASSOCIATED LOUVER OR DUCT UNLESS OTHERWISE INDICATED.
- 38. SEISMIC RESTRAINTS/BRACING SHALL BE PROVIDED FOR ALL EQUIPMENT. DUCTWORK, PIPING AND ACCESSORIES IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF THE LATEST SMACNA "SEISMIC RESTRAINT MANUAL", PROJECT SPECIFIC SEISMIC REQUIREMENTS, OR THE LATEST EDITION OF "GENERAL SEISMIC REQUIREMENTS FOR DESIGN OF NEW FACILITIES AND UPGRADE OF EXISTING FACILITIES", AS PUBLISHED BY SFPUC ENGINEERING MANAGEMENT BUREAU. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEISMIC SUPPORTS AND ADDITIONAL/MISCELLANEOUS STEEL REQUIRED FOR PROPER INSTALLATION OF SUPPORTS, SUPPORTS AND SEISMIC RESTRAINTS DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF CALIFORNIA LICENSED STRUCTURAL ENGINEER.
- 39. INSULATION SHALL BE PROVIDED FOR EQUIPMENT, PIPING, AND DUCT SYSTEMS AS INDICATED IN SECTIONS 23 07 00 AND 40 42 00 AND STANDARD DETAILS.
- 40. BOTTOM OF DUCT (BOD) ELEVATIONS ARE MEASURED FROM FINISHED FLOOR TO THE BOTTOM OF THE DUCT BEFORE APPLYING INSULATION.
- 41. INSULATED STEAM, STEAM CONDENSATE, HEATING WATER SUPPLY AND RETURN PIPING PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS M1020 AND M1021 RESPECTIVELY.



**CALIFORNIA** 

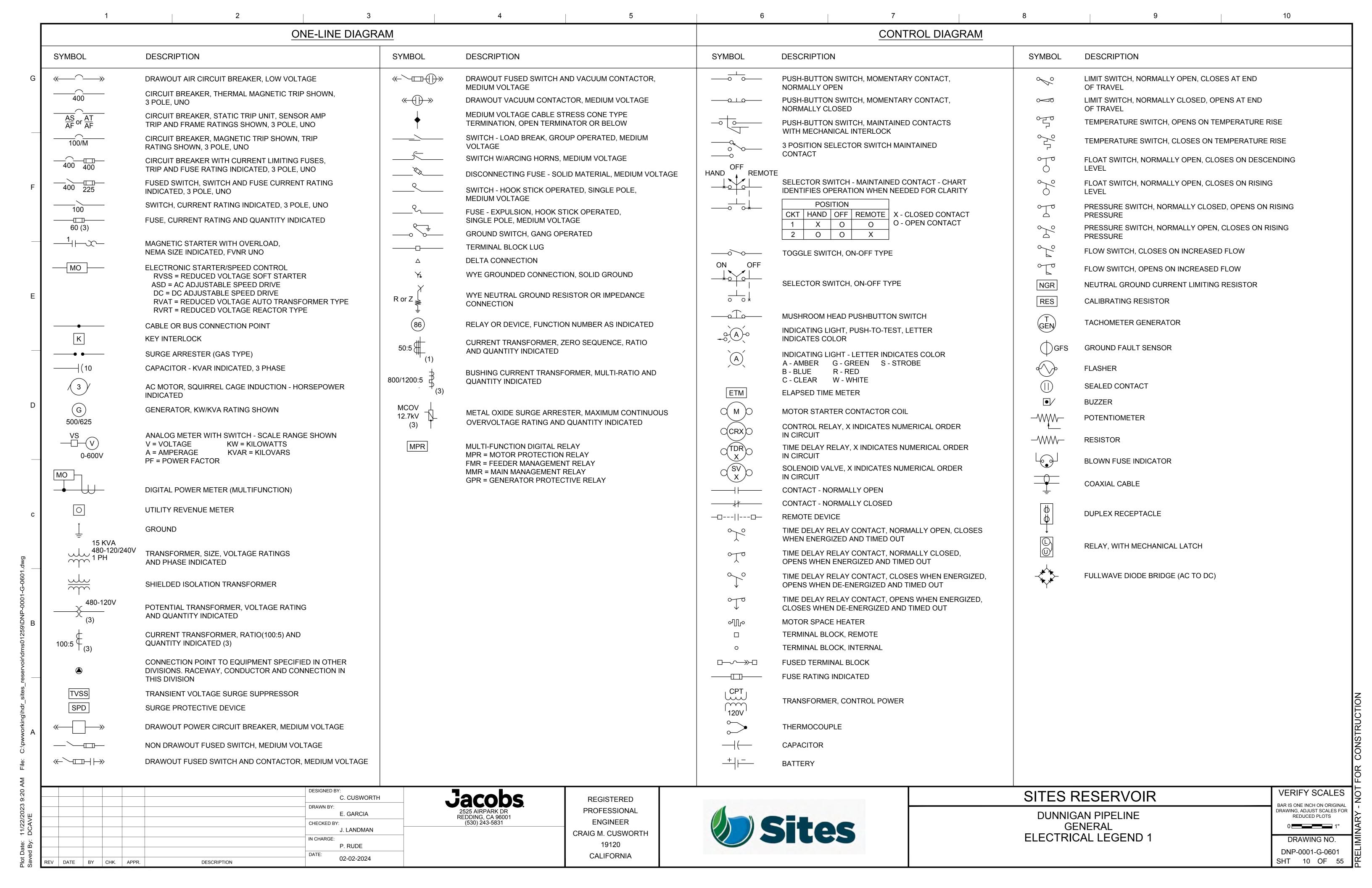
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**DUNNIGAN PIPELINE GENERAL HVAC LEGEND** 

**VERIFY SCALES** BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0

SHT

DRAWING NO. DNP-0001-G-0501 9 OF 55



	1	2		4 5	6	i l	7		8	9		10
	POWER SYSTEM PLAN					GROUND SYST	EM PLAN			ABBRE	/IATIONS	·
	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	• •	GROUND ROD  GROUND ROD IN TEST V	VELL		ABBREVIA <sup>-</sup>	TIONS DESCRIPTION	ABBREVIA	TIONS DESCRIPTION
G	MCC-A	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION  MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN	XX 2	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE WP - WEATHERPROOF C - CLOCK HANGER TL - TWIST LOCK CRE - CORROSION RESISTANT GFCI - GROUND FAULT CIRCUIT INTERRUPTER SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT	— —G— — — →	GROUNDING CONDUCTO  PIGTAIL FOR CONNECTION CABINET OR FRAME EQUIPMENT GROUND BUT	OR, SIZE AS INI		J, J-BOX K L	JUNCTION BOX KEY INTERLOCK LIGHTING CONTACTOR, LOW SPEED	W WHD WP XFDR	WATT WATTHOUR DEMAND METER WEATHERPROOF TRANSPONDER
	LPXXA	PANELBOARD - SURFACE MOUNTED  PANELBOARD LETTER OR NUMBER FACILITY NUMBER LP - LOW VOLTAGE PANEL	<b>⊕ ♦ ♦</b>	240V RECEPTACLE  CONVENIENCE RECEPTACLE - QUADRUPLEX  MULTI OUTLET ASSEMBLY	N——	EQUIPMENT NEUTRAL B			LOS LR LT FLEX LTS	LOCKOUT STOP PUSH BUTTON LATCHING RELAY LIQUID TIGHT FLEX CONDUIT LIGHTS	XFMR	TRANSFORMER
F		DP - DISTRIBUTION PANEL PANELBOARD - FLUSH MOUNTED		DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR  CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE			IATIONS					
	M/	TERMINAL JUNCTION BOX  MOTOR, SQUIRREL CAGE INDUCTION	L20R 20 🔘	RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE INDICATED		MMETER, AMPERE, AMBER	ABBREVIA M	TIONS DESCRIPTION  MAGNETIC CONTACTOR				
	G →LPXXA	GENERATOR, VOLTAGE AND SIZE AS INDICATED  HOME RUN - DESTINATION SHOWN  EXPOSED CONDUIT AND CONDUCTORS*	(T)	THERMOSTAT  UTILITY REVENUE METERING FACILITY  POWER POLE WITH GUY WIRE	AFD AI DF AFF AI AFG AI	MPERE FRAME DJUSTABLE FREQUENCY RIVE BOVE FINISHED FLOOR BOVE FINISHED GRADE	MCC MH MO MS	COIL MOTOR CONTROL CENTER MANHOLE, METAL HALIDE MOTOR OPERATER MOTOR STARTER				
E	—— or —/// G  – — – or – /// – G  NOTE:	CONCEALED CONDUIT AND CONDUCTORS*	Φ XX-YY-ZZ	230kV TRANSMISSION LINE STRUCTURE  ELECTRICAL BOX/VAULT IDENTIFICATION	ASU AI AT AI ATC AI	MMETER SWITCH, MPERE SENSOR R SUPPLY UNIT MPERE TRIP JTOMATIC THROWOVER	MSC MT MTD	MFR SUPPLIED CABLE MOUNT MOUNTED  NEUTRAL				
	CONDUCTORS IN 3/4" C	UIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE INDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" OUND WIRE.		XX: HH - HANDHOLE MH - MANHOLE PB - PULLBOX	ATS AU	ONTROL JTOMATIC TRANSFER WITCH ARE COPPER	NA NC NL NO NP	NON-AUTOMATIC NORMALLY CLOSED NIGHT LIGHT NORMALLY OPEN NAMEPLATE				
	<i>───</i> G	CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.		YY: MV - MEDIUM VOLTAGE POWER P - LOW VOLTAGE POWER C - CONTROL	BCP BF BPP BF BRKR BF	RANCH CIRCUIT PANEL RANCH POWER PANEL REAKER ONDUIT, CONTACTOR	OC OL PB	ON CENTER OVERLOAD RELAY PULL BOX, PUSH BUTTON				
D	[A1]————————————————————————————————————	CONDUIT DOWN CONDUIT UP		ZZ: IDENTIFICAITON NUMBER (e.g. 01)	CC CC CKT CI CPT CC	RCUIT BREAKER ONTROL CABLE RCUIT ONTROL POWER RANSFORMER	PC PH PMR	SWITCH PHOTOCELL PHASE PHASE MONITOR RELAY PANEL				
	——————————————————————————————————————	CONDUIT, STUBBED AND CAPPED  CONDUIT TERMINATION AT CABLE TRAY  EXISTING CONDUIT / DUCT BANK	~~	LIGHTING SYSTEM PLAN	CR CC CRE CC CRS CC	ONTROL RELAY ORROSION-RESISTANT OATED RIGID STEEL ONDUIT	PS PT PVC	PRESSURE SWITCH POTENTIAL TRANSFORMER POLYVINYL CHLORIDE CONDUIT				
	——ВD—— ——СЕ——	BUS DUCT - SEE SPECIFICATIONS CONCRETE ENCASED CONDUIT	① or ① ①	LUMINAIRE, SEE SCHEDULE LUMINAIRE, SEE SCHEDULE	DC DI	JRRENT TRANSFORMER RECT CURRENT VISION	R RCPT REQD	RED RECEPTACLE REQUIRED				
	——————————————————————————————————————	DIRECT BURIED CONDUIT FIBER OPTIC CONDUIT EXISTING OVERHEAD ELECTRICAL LINE CONCRETE ENCASED DUCT BANK WHERE XXXX IS		SEE SCHEDULE STRIP LUMINAIRE, SEE SCHEDULE	EO EL	MPTY LECTRIC OPERATOR QUIPMENT MERGENCY SHUTDOWN	RS RT RVNR	REMOTE MULTIPLEXER RIGID STEEL CONDUIT REMOTE TELEMETRY REDUCED VOLTAGE NON-REVERSING				
	XXXX	THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION CONCEALED CONDUIT ROUTING AREA	□-4 or ○-4  -5 or  -5 (1)	LUMINAIRE AND POLE, SEE SCHEDULE  WALL MOUNTED LUMINAIRE, SEE SCHEDULE  FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN	EXST EX	WITCH LAPSED TIME METER KISTING EEDER	RVR SA SCCR	REDUCED VOLTAGE REVERSING SURGE ARRESTOR SHORT CIRCUIT CURRENT				
0602.dwg		CONDUIT ROUTING AREA CABLE TRAY		STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE,	F FLR FL FLUOR FL FVNR FL	JSE .OOR .UORESCENT JLL VOLTAGE	S/N SPD SST	RATING SOLID NEUTRAL SPEED STAINLESS STEEL				
NP-0001-G	Jor HH	TRANSFORMER  GENERAL CONTROL OR WIRING DEVICE.  LETTER SYMBOLS OR ABBREVIATIONS  INDICATE TYPE OF DEVICE	XX⊗ or S \$3a or	ARROW INDICATES EGRESS DIRECTIONAL INDICATORS, XX = FIXTURE NUMBER, SEE SCHEDULE SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE	FVR FURI	ON-REVERSING JLL VOLTAGE EVERSING REEN, GROUND	SV SW SWBD	SOLENOID VALVE SWITCH SWITCHBOARD THERMOSTAT				
dms01259\E		CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED NONFUSED DISCONNECT SWITCH, CURRENT	\$ <sub>3</sub>	LUMINAIRE INDICATES CIRCUIT  WALL SWITCH:  2- DOUBLE POLE  P- PILOT LIGHT	GFCI GI IN GFR GI	ALVANIZED ROUND FAULT CIRCUIT TERRUPTER ROUND FAULT RELAY ROUND	TB TC TD TDR	TERMINAL BOARD TIME CLOSE TEMPERATURE DETECTOR RELAY TIME DELAY RELAY				
s_reservoir\	60/40 <u> </u>	RATING INDICATED, 3 POLE  FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED  (60/40, 60 = SWITCH RATING / 40 = FUSE RATING) 3 POLE		3- THREE WAY 4- FOUR WAY D- DIMMER WP- WEATHERPROOF CRE- CORROSION RESISTANT EX- EXPLOSIONPROOF L- MOMENTARY 3-WAY	H HI HH HA HID HI	GH SPEED ANDHOLE GH INTENSITY SCHARGE	TJB T.O. TS	TERMINAL JUNCTION BOX TIME OPEN AUTO TRANSFORMER TEMPERATURE SWITCH TWISTED SHIELDED PAIR				
\hdr_site	2 🔀 🗆	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED		M - MOTOR RATED MS- MANUAL STARTER WITH OVERLOADS LV- ON/OFF/DIMMING (0-10V)	HPS HI	SCHARGE GH PRESSURE SODIUM AND SWITCH	TST TYP	TWISTED SHIELDED PAIR TWISTED SHIELDED TRIAD TYPICAL				NC F
pwworking\ P	100/40 🔂 2	BREAKER SEPARATELY MOUNTED, CURRENT RATING INDICATED (100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE CONTACTOR, MAGNETIC, NEMA SIZE INDICATED	os LC	OCCUPANCY SENSOR LIGHTING CONTACTOR	I & C IN	TERRUPTING CAPACITY STRUMENTATION AND ONTROL CANDESCENT	UH UVR V	UNIT HEATER UNDER VOLTAGE RELAY VOLTMETER, VOLT				ONSTRUCTION
File: C:\	30 <b></b> 2	LIGHTING CONTACTOR, CURRENT RATING INDICATED STARTER, MAGNETIC NEMA SIZE INDICATED	MD (PC)	MOTION DETECTOR PHOTOCELL		STANTANEOUS	VS	VOLTMETER SWITCH				SOS ROS
024 4:17 PM E		DESIGNED BY:  C. CUSWORTH  DRAWN BY:  E. GARCIA		Jacobs.  2525 AIRPARK DR REDDING, CA 96001 (530) 243-5831  REGISTERED PROFESSIONAL ENGINEER						RESERVOIR		VERIFY SCALES  BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
Not Date: 1/18/20 Saved By: DCAVE	EV DATE BY CHK. API	CHECKED BY:  J. LANDMAN  IN CHARGE:  P. RUDE  DATE:  02.03.2024		ENGINEER  (530) 243-5831  ENGINEER  CRAIG M. CUSWORTH  19120  CALIFORNIA		Sites				GENERAL RICAL LEGEND 2		DRAWING NO.  DNP-0001-G-0602 SHT 11 OF 55

#### GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

	POWER CIRCU	T CALLO	JTS	MULTICONDUCTOR POWER CABLE CIRCUIT CALLOUTS			
[P1]	[1/2"FLEX, 2#12,#12G]	[P24]	[1"C,3#8,3#14,1#10G]	[PC1]	[3/4"C,1 (3C#12,1#12G) TYPE 2]		
[P2]	[3/4"C,2#12,1#12G]	[P25]	[1"C,3#8,4#14,1#10G]	[PC2]	[3/4"C,1 (3C#10,1#10G) TYPE 2]		
[P3]	[3/4"C,3#12,1#12G]	[P26]	[1"C,3#8,5#14,1#10G]	[PC3]	[3/4"C,1 (3C#8,1#10G) TYPE 2]		
[P4]	[3/4"C,4#12,1#12G]	[P27]	[1"C,2#6, 1#10G]	[PC4]	[3/4"C,2 (3C#12,1#12G) TYPE 2]		
[P5]	[3/4"C,5#12,1#12G]	[P28]	[1"C,3#6, 1#8G]	[PC5]	[1"C,2 (3C#10,1#10G) TYPE 2]		
[P6]	[3/4"C,6#12,1#12G]	[P29]	[1"C,3#6, 2#14,1#8G]	[PC1A]	[3/4"C,1 (2C#12,1#12G) TYPE 2]		
[P7]	[3/4"C,7#12,1#12G]	[P30]	[1 1/4"C,3#6, 3#14,1#8G]	[PC2A]	[3/4"C,1 (2C#10,1#10G) TYPE 2]		
[P8]	[3/4"C,8#12,1#12G]	[P31]	[1 1/4"C,3#6, 4#14,1#8G]	' '			
[P9]	[3/4"C,3#12,2#14,1#12G]	[P32]	[1 1/4"C,3#6, 5#14,1#8G]				
[P10]	[3/4"C,3#12,3#14,1#12G]	[P33]	[1 1/4"C,3#4,1#8G]		EMPTY CONDUIT		
[P11]	[3/4"C,3#12,4#14,1#12G]	[P34]	[1 1/4"C,3#4,3#14,1#8G]	[EC-1]	[3/4"C,WITH PULL STRING]		
[P12]	[3/4"C,3#12,5#14,1#12G]	[P35]	[1 1/4"C,3#4,5#14,1#8G]	[EC-2]	[1"C,WITH PULL STRING]		
[P13]	[3/4"C,3#12,6#14,1#12G]	[P36]	[1 1/4"C,3#3, 1#6G]	[EC-3]	[1 1/4"C,WITH PULL STRING]		
[P14]	[1"C,3#12,7#14,1#12G]	[P37]	[1 1/4"C,3#3, 3#14,1#6G]	[EC-4]	[1 1/2"C,WITH PULL STRING]		
[P15]	[3/4"C,2#10,1#10G]	[P38]	[1 1/4"C,3#2, 1#6G]	[EC-5]	[2"C,WITH PULL STRING]		
[P16]	[3/4"C,3#10,1#10G]	[P39]	[1 1/2"C,3#1, 1#6G]	[EC-6]	[3"C,WITH PULL STRING]		
[P17]	[3/4"C,3#10,1#10G]	[P40]	[2"C,3#1, 3#14,1#6G]	[EC-7]	[4"C,WITH PULL STRING]		
	[3/4"C,3#10,3#14,1#10G]	1	[2"C,3#2/0, 1#4G]	[EC-7]	[5"C,WITH PULL STRING]		
[P18]	• · · · · · •	[P41]		[[[-0]	[5 C,WITH FOLL STRING]		
[P19]	[3/4"C,3#10,4#14,1#10G]	[P42]	[2"C,3#3/0, 1#4G]				
[P20]	[1"C,3#10,5#14,1#10G]	[P43]	[2"C,3#4/0, 1#3G]				
[P21]	[1"C,2#8,1#10G]						
[P22]	[1"C,3#8,1#10G]						
[P23]	[1"C,3#8,2#14,1#10G]						
ANAL	LOG CIRCUIT CALLOUTS	CONTR	OL CIRCUIT CALLOUTS	MULTICON	IDUCTOR CONTROL CABLE CIRCUIT CALLOUTS		
[A1]	[3/4"C,1 TYPE 3]	[C1]	[3/4"C,MSC]	[CC3]	[3/4"C,1-3C TYPE 1]		
[A2]	[3/4"C,2 TYPE 3]	[C2]	[3/4"C,2#14,1#14G]	[CC5]	[3/4"C,1-5C TYPE 1]		
[A3]	[1"C,3 TYPE 3]	[C3]	[3/4"C,3#14,1#14G]	[CC7]	[3/4"C,1-7C TYPE 1]		
[A4]	[1 1/4"C,4 TYPE 3]	[C4]	[3/4"C,4#14,1#14G]	[CC9]	[1"C,1-9C TYPE 1]		
[A5]	[1 1/4"C,5 TYPE 3]	[C5]	[3/4"C,5#14,1#14G]	[CC12]	[1"C,1-12C TYPE 1]		
[A6]	[1 1/4"C,6 TYPE 3]	[C6]	[3/4"C,6#14,1#14G]	[CC19]	[1 1/2"C, 1-19C TYPE 1]		
[A7]	[1 1/2"C,7 TYPE 3]	[C7]	[3/4"C,7#14,1#14G]	[CC25]	[1 1/2"C,1-25C TYPE 1]		
[8A]	[1 1/2"C,8 TYPE 3]	[C8]	[3/4"C,8#14,1#14G]	[CC37]	[2"C,1-37C TYPE 1]		
[A9]	[1 1/2"C,9 TYPE 3]	[C9]	[3/4"C,9#14,1#14G]	[CCC1]	[1-7C #12 TYPE 1]		
[A10]	10110 40 T) (DE 01	' '	. , ,				
	[2"C,10 TYPE 3]	[C10]	[3/4"C,10#14,1#14G]				
[A11]	[2"C,10 TYPE 3] [2"C,11 TYPE 3]	[C10] [C11]	[3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G]				
[A11] [A12]	- · · -	[C11]	[3/4"C,11#14,1#14G]				
[A12]	[2"C,11 TYPE 3]	[C11] [C12]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G]				
[A12] [A13]	[2"C,11 TYPE 3] [2"C,12 TYPE 3]	[C11] [C12] [C13]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G]				
[A12] [A13] [A14]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3]	[C11] [C12] [C13] [C14]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G]				
[A12] [A13] [A14] [A15]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4]	[C11] [C12] [C13] [C14] [C15]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G]				
[A12] [A13] [A14] [A15] [A16]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,17#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,19#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G] [1"C,22#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] [A23]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] [2"C,9 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21] [C22] [C23]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G]				
[A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22]	[2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [3/4"C,1 TYPE 4] [3/4"C,2 TYPE 4] [1"C,3 TYPE 4] [1 1/4"C,4 TYPE 4] [1 1/4"C,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4]	[C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C19] [C20] [C21]	[3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,14#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,18#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,21#14,1#14G] [1"C,22#14,1#14G]				

#### NOTES:

- 1. FOR CABLE TYPES, SEE SPECIFICATIONS.
- 2. POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
- 3. SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
- 4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED. MINIMUM CONDUIT SIZE SHALL BE 1".
- 5. FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:

		DESIGNED BY: C. CUSWORTH	Jacobs.	REGISTERED	
		E CARCIA 2525 AIRPARK	2525 AIRPARK DR REDDING, CA 96001	PROFESSIONAL	
		CHECKED BY:	(530) 243-5831	ENGINEER	
		J. LANDMAN		CRAIG M. CUSWORTH	
		IN CHARGE: P. RUDE		19120	
		DATE: 02.02.2024		CALIFORNIA	
DATE BY	CHK APPR DESCRIPTION	02-02-2024			



## SITES RESERVOIR

**DUNNIGAN PIPELINE GENERAL ELECTRICAL LEGEND 3**  VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

SHT 12 OF 55

0 \_\_\_\_\_1 DRAWING NO. DNP-0001-G-0603

