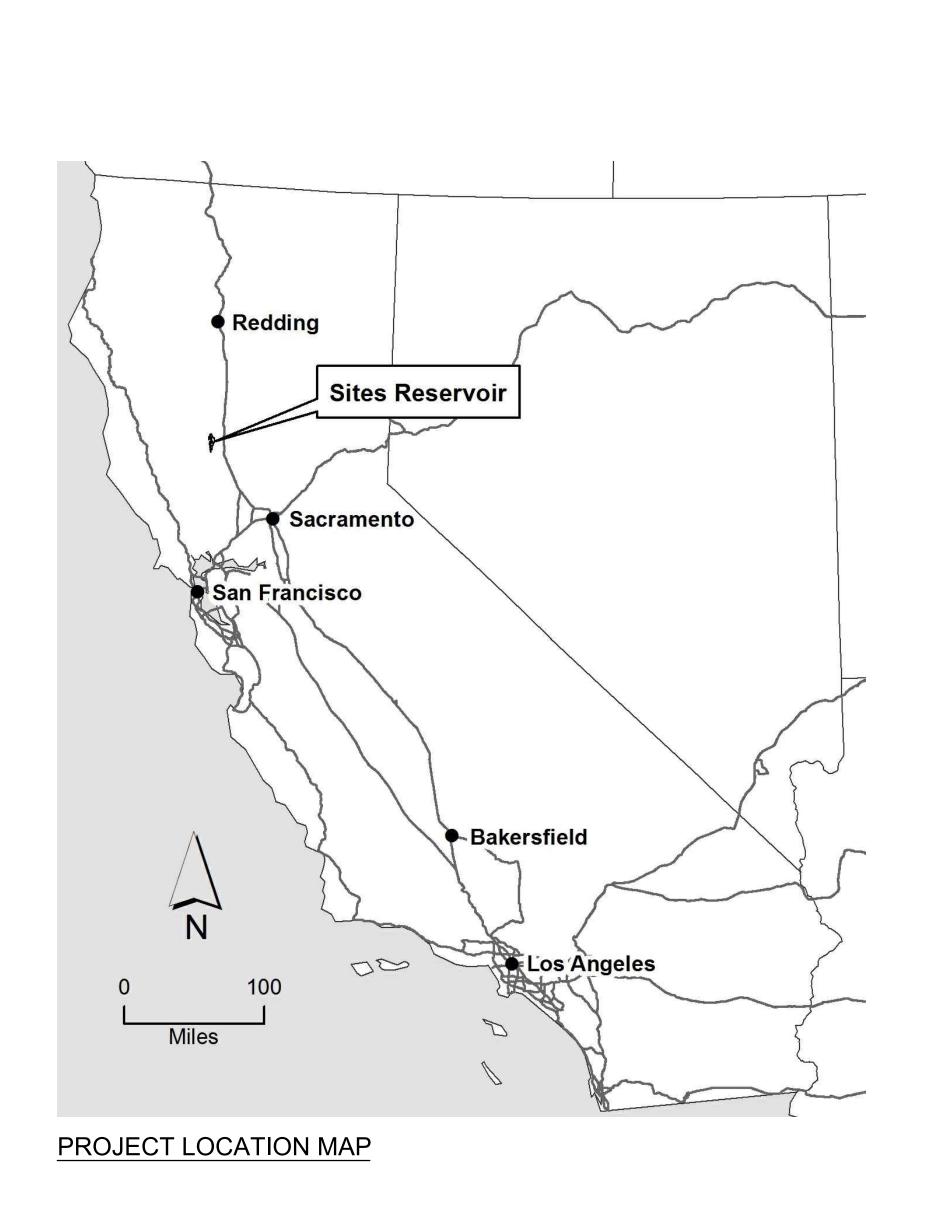
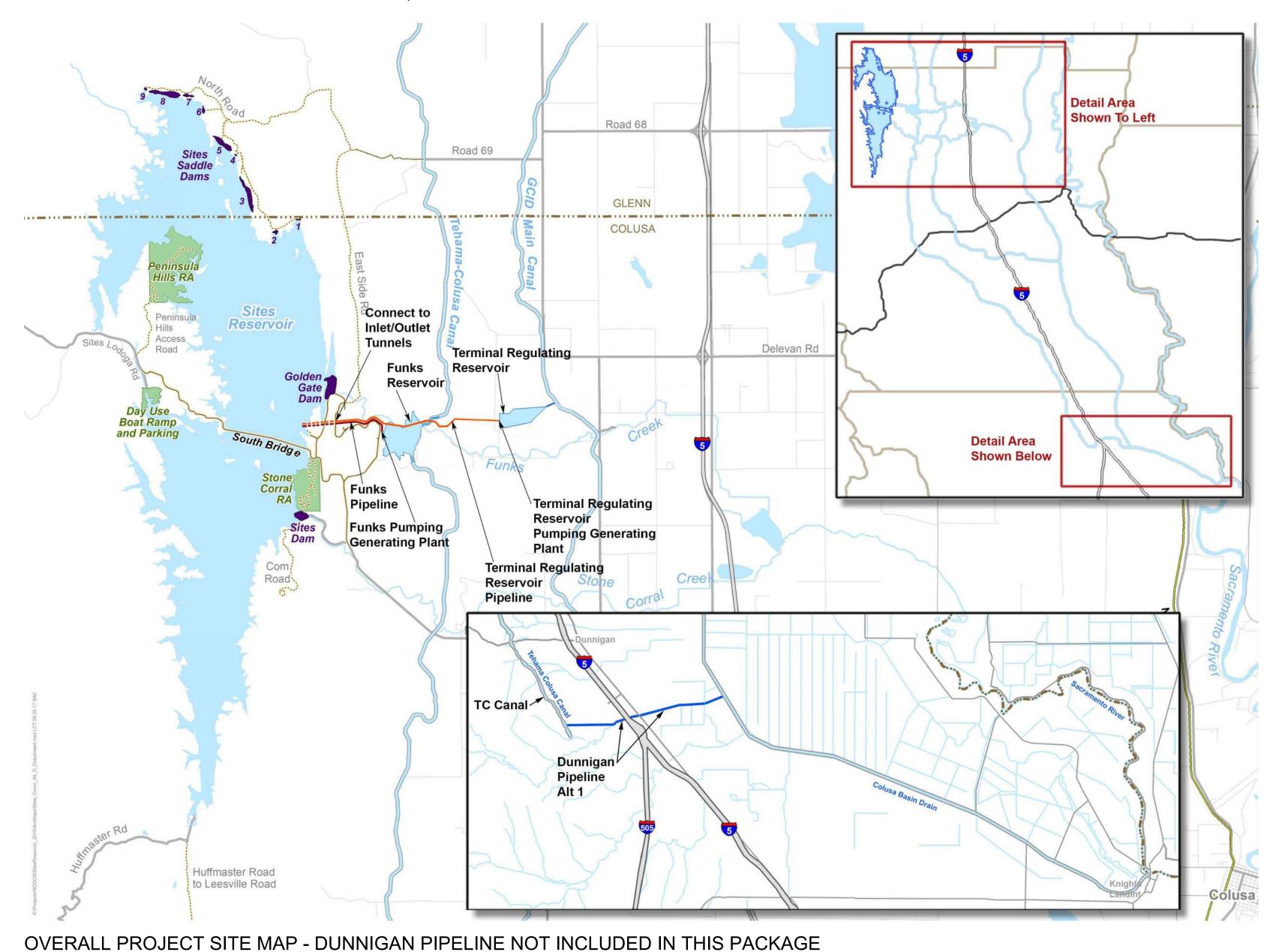
SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING PROJECT FUNKS, TRR AND ENVIRONMENTAL WATER PIPELINES

30% DESIGN - CLIENT REVIEW OCTOBER 6, 2023





| DESIGNED BY: | D. CAVE |

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REGISTERED
PROFESSIONAL
ENGINEER
WAYNE J. OHLIN
72287
CALIFORNIA



SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
GENERAL
COVER SHEET,
LOCATION MAP AND SITE MAP

VERIFY SCALES

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

0 1" 1"

DRAWING NO.

DRAWING NO.
MPG-0001-G-0001
SHT 1 OF 70

| SHT NO | DRAWING NO | DESCRIPTION |
|--------|-----------------|---|
| 1 | MPG-0001-G-0001 | COVER SHEET, LOCATION MAP AND SITE MAP |
| 2 | MPG-0001-G-0002 | INDEX OF DRAWINGS 1 |
| 3 | MPG-0001-G-0010 | ABBREVIATIONS |
| 4 | MPG-0001-G-0020 | GENERAL SYMBOLS AND DRAWING NUMBERING LEGEND |
| 5 | MPG-0001-G-0101 | CIVIL LEGEND |
| 5 | MPG-0001-G-0301 | STRUCTURAL NOTES 1 |
| 7 | MPG-0001-G-0302 | STRUCTURAL NOTES 2 |
| 3 | MPG-0001-G-0401 | PROCESS MECHANICAL LEGEND AND NOTES |
| 9 | MPG-0001-G-0502 | HVAC LEGEND |
| 10 | MPG-0001-G-0601 | ELECTRICAL LEGEND 1 |
| 11 | MPG-0001-G-0602 | ELECTRICAL LEGEND 2 |
| 12 | MPG-0001-G-0603 | ELECTRICAL LEGEND 3 |
| 13 | MPG-0001-G-0701 | INSTRUMENTATION AND CONTROLS - LEGEND 1 |
| 14 | MPG-0001-G-0702 | INSTRUMENTATION AND CONTROLS - LEGEND 2 |
| 15 | MPG-0001-G-0801 | PROCESS FLOW DIAGRAM |
| 16 | MPG-0001-G-1001 | HYDRAULIC PROFILE - FUNKS PIPELINE |
| 17 | MPG-0001-G-1002 | HYDRAULIC PROFILE - TERMINAL REGULATING RESERVOIR PIPELINE |
| 18 | MPG-0001-G-1003 | HYDRAULIC PROFILE - ENVIRONMENTAL WATER PIPELINE |
| 19 | MPG-0045-C-2001 | OVERALL LOCATION AND SURVEY CONTROL - PLAN |
| 20 | MPG-0065-N-6000 | OVERALL PROGRAM - P&ID |
| 21 | MPG-0065-N-6130 | OVERALL PROGRAM - P&ID - VALVE VAULT |
| 22 | MPG-0065-N-6140 | OVERALL PROGRAM - P&ID - ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE |
| 23 | MPG-0065-N-6200 | OVERALL PROGRAM - NETWORK BLOCK DIAGRAM |
| 24 | MPG-2030-G-0001 | VALVE VAULT - RENDERING |
| 25 | MPG-2030-S-2001 | VALVE VAULT - FOUNDATION PLAN |
| 26 | MPG-2030-S-2101 | VALVE VAULT - WALKWAY PLAN |
| 27 | MPG-2030-S-2201 | VALVE VAULT - GROUND LEVEL PLAN |
| 28 | MPG-2030-S-3001 | VALVE VAULT - SECTION |
| 29 | MPG-2030-D-2001 | VALVE VAULT - LOWER PLAN |
| 30 | MPG-2030-D-3001 | VALVE VAULT - SECTIONS |
| 31 | MPG-2030-H-2201 | VALVE VAULT - GROUND LEVEL PLAN |
| 32 | MPG-2030-E-2001 | VALVE VAULT - PLAN |
| 33 | MPG-2040-G-0001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - RENDERING |
| 34 | MPG-2040-C-2001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - SITE PLAN |
| 35 | MPG-2040-S-2001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - PLAN |
| 36 | MPG-2040-S-3001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - SECTION |
| 37 | MPG-2040-S-3002 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - SECTION |
| 38 | MPG-2040-D-2001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - PLAN |
| 39 | MPG-2040-D-3001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - SECTION |
| 40 | MPG-2040-E-2001 | ENVIRONMENTAL WATER PIPELINE - DISSIPATION STRUCTURE - PLAN |
| · · · | | |

| SHT NO | DRAWING NO | DESCRIPTION |
|--------|-----------------|---|
| 41 | MPG-2120-P-2000 | FUNKS PIPELINE - KEY PLAN AND HORIZONTAL ALIGNMENT DATA |
| 42 | MPG-2120-P-2001 | FUNKS PIPELINE - PLAN AND PROFILE - STA 299+95.67 TO 325+00 |
| 43 | MPG-2120-P-2002 | FUNKS PIPELINE - PLAN AND PROFILE - STA 325+00 TO STA 347+38.01 |
| 44 | MPG-2120-P-2101 | FUNKS AND TRR PIPELINES - CONNECTION MANIFOLD - PLAN |
| 45 | MPG-2135-N-6150 | FUNKS RESERVOIR - P&ID - FLOW METER VAULT |
| 46 | MPG-2190-G-0001 | FUNKS RESERVOIR - FLOW METER VAULT - RENDERING |
| 47 | MPG-2190-S-2001 | FUNKS RESERVOIR - FLOW METER VAULT - FOUNDATION PLAN |
| 48 | MPG-2190-S-2101 | FUNKS RESERVOIR - FLOW METER VAULT - WALKWAY PLAN |
| 49 | MPG-2190-S-2201 | FUNKS RESERVOIR - FLOW METER VAULT - GROUND LEVEL PLAN |
| 50 | MPG-2190-S-3001 | FUNKS RESERVOIR - FLOW METER VAULT - SECTION |
| 51 | MPG-2190-D-2001 | FUNKS RESERVOIR - FLOW METER VAULT - LOWER PLAN |
| 52 | MPG-2190-D-3001 | FUNKS RESERVOIR - FLOW METER VAULT - SECTIONS |
| 53 | MPG-2190-H-2201 | FUNKS RESERVOIR - FLOW METER VAULT - GROUND LEVEL PLAN |
| 54 | MPG-2190-E-2001 | FUNKS RESERVOIR - FLOW METER VAULT - PLAN |
| 55 | MPG-2220-P-2000 | TRR PIPELINE - KEYPLAN AND HORIZONTAL ALIGNMENT DATA - |
| 56 | MPG-2220-P-2001 | TRR PIPELINE - PLAN AND PROFILE - STA 400+00 TO 425+00 |
| 57 | MPG-2220-P-2002 | TRR PIPELINE - PLAN AND PROFILE - STA 425+00 TO 450+00 |
| 58 | MPG-2220-P-2003 | TRR PIPELINE - PLAN AND PROFILE - STA 450+00 TO 475+00 |
| 59 | MPG-2220-P-2004 | TRR PIPELINE - PLAN AND PROFILE - STA 475+00 TO 500+00 |
| 60 | MPG-2220-P-2005 | TRR PIPELINE - PLAN AND PROFILE - STA 500+00 TO 525+00 |
| 61 | MPG-2220-P-2006 | TRR PIPELINE - PLAN AND PROFILE - STA 525+00 TO 550+00.00 |
| 62 | MPG-2220-P-2007 | TRR PIPELINE - PLAN AND PROFILE - STA 550+00 TO 561+01.83 |
| 63 | MPG-2220-P-2201 | ENVIRONMENTAL WATER PIPELINE - PLAN AND PROFILE - STA 600+00 TO 624+30.50 |
| 64 | MPG-2220-P-5001 | TRR PIPELINE - TUNNEL DETAILS |
| 65 | MPG-2900-C-5001 | STANDARD DETAILS |
| 66 | MPG-2900-C-5002 | STANDARD DETAILS |
| 67 | MPG-2900-C-5003 | STANDARD DETAILS |
| 68 | MPG-2900-C-5004 | STANDARD DETAILS |
| 69 | MPG-2900-C-5005 | STANDARD DETAILS |
| 70 | MPG-2900-C-5006 | STANDARD DETAILS |

DESIGNED BY: D. CAVE D. CAVE CHECKED BY: W. OHLIN IN CHARGE: 10-06-2023 REV DATE BY CHK. APPR. DESCRIPTION

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SITES RESERVOIR

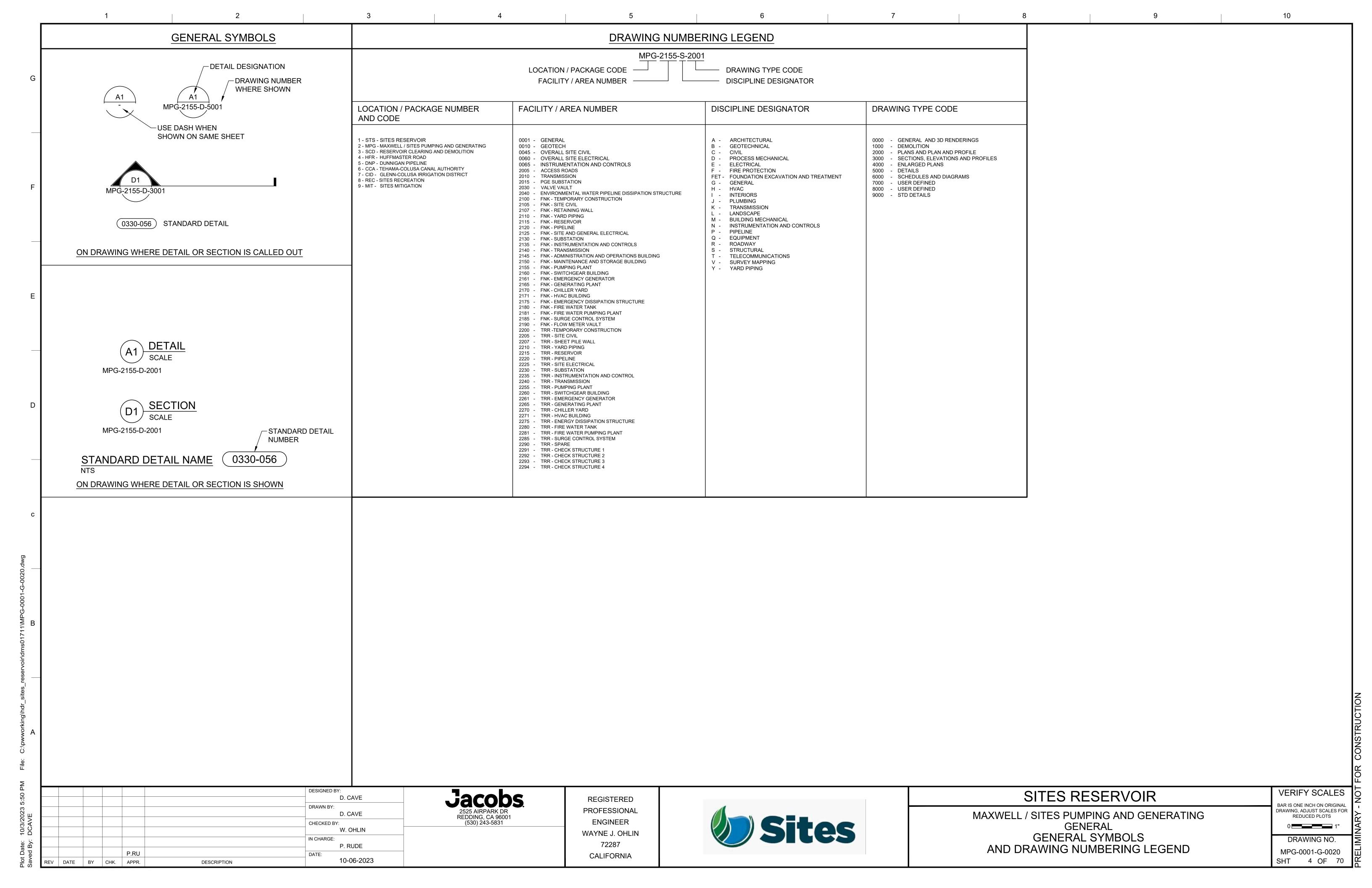
MAXWELL / SITES PUMPING AND GENERATING GENERAL INDEX OF DRAWINGS 1

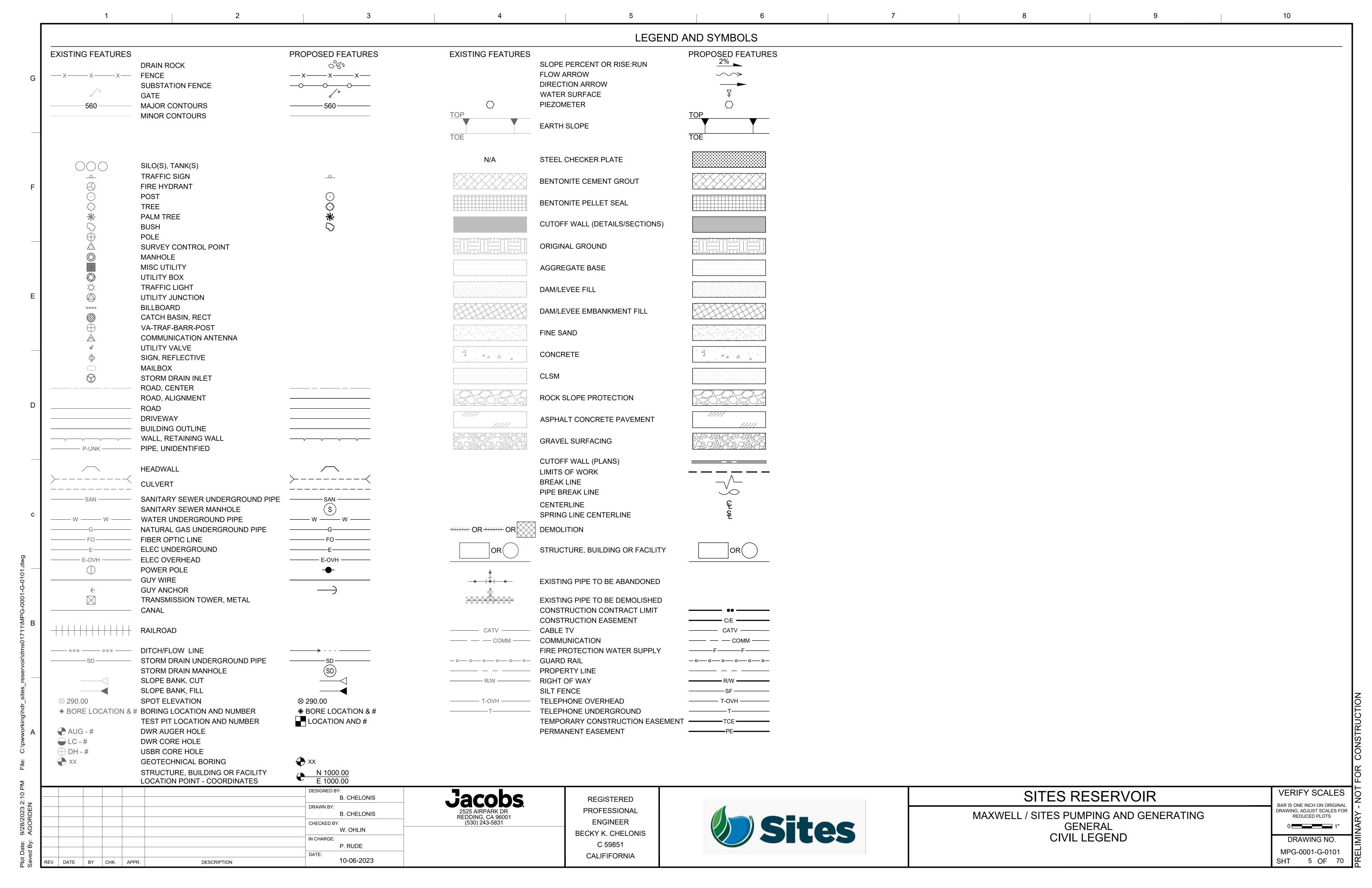
VERIFY SCALES

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| 1 | 2 | 3 | 4 | | 5 | | 6 | 7 | 8 | | 9 | 10 |
|---|---|------------------------|---|---------------------|--|----------------------------|---|-------------------------|---|---------------------|---|--|
| @ AT L ANGLE | CL CONTROL LINE CENTER LINE | ELEV, EL ELV | ELEVATION ELECTRIC VAULT | GRAN GR LN | GRANITE GRADE LINE | MACH MAS | MACHINE MASONRY | PH PHAR | PILOT HOLE, PHASE PHARMACY | • | | F VINYL FABRIC FD VARIABLE FREQUENCY D |
| A/C AIR CONDITIONING A/C UNIT AIR CONDITIONING UNIT AB ANCHOR BOLT, AGGREGATE BASE | CL-6 CHAIN LINK FENCE (6 FT) CLG CEILING CLG HT CEILING HEIGHT | EM EMB EMD | EXPANDED METAL EMBANKMENT ESTIMATED MAXIMUM DEMAND | GRTG GST GSU | GRATING GLAZED STRUCTURAL TILE GLAZED STRUCTURAL UNITS | MATL MAX MB | MATERIAL(S) MAXIMUM MACHINE BOLTS | PI PIPU PIV | POINT OF INTERSECTION PREFAB ISOLATION POWER UNIT POST INDICATING VALVE | SCRN SCT SD | SCREEN V STRUCTURAL CLAY TILE V SADDLE DAM, STORM DRAIN V | G VERTICAL GRAIN (H VINYL HOMOGENEOUS (J V-JOINT(ED) |
| ABUT ABUTMENT ABV ABOVE | CLGL CLEAR GLASS CLL CONTRACT LIMIT LINE | EMER ENCL | EMERGENCY ENCLOSE(URE) | GT GWT | GROUT GLAZED WALL TILE | MBR MC | MEMBER MEDICINE CABINET | PL P/L | PROPERTY LINE, PLATE PROPERTY LINE | SDI SECT | STEEL DOOR INSTITUTE V SECTION V | NR VENEER Ó OL VOLUME |
| AC ALTERNATING CURRENT, ASPHALT CONCRETE BASE ACC ACCESSIBLE | CLOS CLOSURE | ENGR ENTR | ENGINEER ENTRANCE, ENTERING | GYP GYP BD | GYPSUM GYPSUM BOARD | MCJ MCO | MASONRY CONTROL JOINT METAL-CASED OPENING | PLAM PLAS | PLASTIC LAMINATE PLASTER | SEQ SFGL | SEQUENCE V SAFETY GLASS V | R VAPOR RETARDER RM VERMICULITE |
| ACR ACRYLIC PLASTIC | CLR CLEAR, CLEARANCE CLS CLASS | EOD EP | EDGE OF DECK END POINT, ELECTRICAL PANELBOARD | GYP PLA H | HEIGHT | MDS MECH | METAL DIVIDER STRIP MECHANICAL | PLAT PLBG | PLATFORM PLUMBING | SFTU SFU | | S VENT STACK 7.T. VOLTAGE TRANSFORMER |
| ACS DR ACCESS DOOR ACS PNL ACCESS PANEL ACSR ALUMINUM CABLE STEEL REINFORCED | CLSM CONTROLLED LOW STRENGTH MATERIAL CLWG CLEAR WIRED GLASS CENTIMETER(S) | EPRF EPY | EXPLOSION PROOF EPOXY COATING | HC HR | HOSE BIBB HOLLOW CORE HALON CONTAINMENT DAMPER | MECH RM MED | MECHANICAL ROOM MEDIUM MEMBRANE | PLF PLG | POUNDS PER LINEAR FOOT PILING | SG SHLDR SHT | SHOULDER V | TR VENT THRU ROOF WC VINYL WALL COVERING |
| ACSR ALUMINUM CABLE STEEL REINFORCED ACST ACOUSTIC ACT ACOUSTICAL CEILING TILE | cm CENTIMETER(S) CM CORRUGATED METAL CMP CORRUGATED METAL PIPE | ESA EQ EQUIP | ENVIRONMENTALLY SENSITIVE AREA EQUAL EQUIPMENT | HCD HCP | HALON CONTAINMENT DAMPER HANDICAPPED HEAD | MEMB MES MFD | MEMBRANE METAL EDGE STRIP METAL FLOOR DECKING | PL GL PLYWD PNL | PLATE GLASS PLYWOOD PANEL | SHT SHTHG SHV | SHEET W SHEATHING W SHELVING W | W WEST, WATER W/WITH W/OUT WITHOUT |
| ADDM ADDENDUM ADH ADHESIVE | CMPST COMPOSITE CMU CONCRETE MASONRY UNIT | ESCAL EST | ESCALATOR ESTIMATE(D) | HD HDBD | HEAVY DUTY HARDBOARD | MFG MFR | MANUFACTURING MANUFACTURER | PT POB | PAINT(ED) POIND OF BEGINNING | SIM S.II | SIMILAR W STEEL JOIST INSTITUTE W | WB WET BULB WBL WOOD BLOCKING |
| ADJ ADJACENT, ADJOINING, ADJUSTABLE, ADJUST ADO AUTOMATIC DOOR OPERATOR | CND CONDUIT CNL CONDUCTIVE NEOPRENE LATEX | EVC E.W. | END VERTICAL CURVE EACH WAY | HD JT HDR | HEAD JOINT HEADER | MG MGT | MOTOR GENERATOR MATTE-GLAZED TILE | POC POE | POINT OF HORIZONTAL CURVE POINT OF ENDING | SKLT SLO | SKYLIGHT W SLOPE W | VC WATER CLOSET V/C WHEELCHAIR |
| AFF ABOVE FINISHED FLOOR AGGR AGGREGATE | CNR CORNER CNTR COUNTER | EWC EWT | ELECTRIC WATER COOLER ENTERING WATER TEMPERATURE | HDW HDWD | HARDWARE HARDWOOD | MH MI | MANHOLE MALLEABLE IRON | POL PORC | POLISHED PORCELAIN | SLNT SLV | SEALANT W SLEEVE W | WCO WOOD-CASED OPENING WD WIDTH, WOOD, WOOD DO |
| AHR ANCHOR AHU AIR HANDLING UNIT | CO COUNTY, CLEANOUT CO2 CARBON DIOXIDE | EXC EXH | EXCAVATE, EXCAVATION EXHAUST | HES HEX | HIGH EARLY-STRENGTH CEMENT HEXAGON | MIN MIRR | MINIMUM MIRROR | PORT POT | PORTABLE POINT OF TANGENT | SM SMS | SHEET METAL W SHEET METAL SCREWS W | VDSP WASTE DISPOSER VDW WINDOW |
| AI AREA INLET AIC AMPERE INTERRUPTING CAPACITY | COL COLUMN COM COMMON | EXH A EXST, (E) | EXHAUST AIR EXISTING | HH HK | HANDHOLE HOOK(S) | MISC ML | MISCELLANEOUS METAL LATH | POVC PP | POINT OF VERTICAL CURVE POWER POLE | SOV SPC | SHUT OFF VALVE W SPACER W | VF WIDE FLANGE VGL WIRED GLASS |
| AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION A.L. ACTIVE LEAF | COMB COMBUSTION COMPT COMPARTMENT | EXP EXP | EXPANSION EXPOSED | HM HNDRL | HOLLOW METAL HANDRAIL | ML MLDG | MONOLITHIC MOULDING | PPGL PPM | POLISHED PLATE GLASS PARTS PER MILLION | SPCL SPD | SPECIAL W SOUNDPROOF DOOR W | VH WALL HUNG VH WATER HEATER |
| ALT ALTERNATE ALUM ALUMINUM | CONC CONCRETE COND CONDUIT | EXP BT EXT | EXPANSION BOLT EXTERIOR | HORIZ, F | HOR HORIZONTAL HINGE POINT, HIGH PRESSURE, HORSEPOWER | MLWK mm | MILLWORK MILLIMETER(S) | PR PRC | PAIR POINT OF REVERSE CURVE | SPEC SPF | SPECIFICATION, SPECIAL W SOUNDPROOF W | WHB WHEEL BUMPER WHM WATT-HOUR METER |
| AMB AMBIENT AMP AMPERE ANOD ANODIZE | CONN CONNECT CONSTR CONSTRUCTION | FA | FAHRENHEIT FIRE ALARM FRESH AIR | HPU HPU | HIGH POINT HYDRAULIC POWER UNIT | MNIC CONTRAC MO | MATERIAL NOT IN CONTRACT (INSTALLATION BY CTOR) MASONRY OPENING | PREFAB PREFIN | PREFINISHED | SP FIN SPH | 0.7.02.1.2.1. | VI WROUGHT IRON VKSH WORK SHOP VM WATER METER. WIRE ME |
| ANSI AMERICAN NATIONAL STANDARDS INSTITUTE APPD APPROVED | CONT CONTINUE CONTR CONTRACTOR CONV CONVENTIONAL | FAC FAI | FRESH AIR FIRE APPARATUS CLOSET FRESH AIR INTAKE | HS HSGYP | HOUR HIGH STRENGTH HIGH-STRENGTH GYPSUM PLASTER | MOD MOD. | MASONRY OPENING MODULAR MODIFIED, MODIFY | PREFMD PRKG PROJ | PREFORMED PARKING PROJECT | SPKR SQ SQHD | SPEAKER W SQUARE W SQUARE HEAD W | WATER METER, WIRE ME W/O WITHOUT WP WATERPROOF(ING) |
| | COORD COORDINATE CORR CORRIDOR | F BRK | FIRE BRICK FOOT CANDLE | HSKPG HT | HOUSEKEEPING HEIGHT | MOD. MON MOT | MONUMENT MOTOR | PRV PRVC | PRESSURE-REGULATING VALVE POINT OF REVERSE VERTICAL CURVE | S&R SS | SHELF AND ROD SANITARY SEWER, SERVICE SINK, STANDING SEAM W | WEATHERPROOF WP WORKING POINT |
| ARFCD AMERICAN RIVER FLOOD CONTROL DISTRICT ARI AMERICAN REFRIGERATION INSTITUTE | COV COVER CPRS COMPRESSIBLE | FC BRK FCG | FACE BRICK FACING | HTG HTR | HEATING HEATER | MP MPG | MOVABLE PARTITION MAXWELL / SITES PUMPING AND GENERATING | PS P.S | PUMP STATION, PIPE SPACE PRESSED STEEL | (ROOF) SST | SANITARY SEWER, SERVICE SINK, STANDING SEAW W STAINLESS STEEL W | WR WASTE RECEPTACLE WRB WARDROBE |
| RN ARCADE CREEK NORTH RS ARCADE CREEK SOUTH | CP CATCH POINT CPT CONE PENETRATION TEXT, CARPET | FCJ FCO | FLOOR CONSTRUCTION JOINT FLOOR CLEANOUT | HVAC HW | HEATING, VENTILATING AND AIR CONDITIONING HEADWALL, HIGH WATER | MR MRB | MOP RECEPTOR MARBLE BASE | PS&E PS CONC | PLANS, SPECIFICATIONS AND ESTIMATES | ST STA | STAINLESS STEEL W STREET W STATION W | WARDROBE WS WATER SURFACE, WATE W.S. WASTE STACK |
| RV AIR RELEASE VALVE ASBESTOS | CR CREEK CRCMF CIRCUMFERENCE | FCU FD | FAN COIL UNIT FLOOR DRAIN | HWM HWY | HIGH WATER MARK HIGHWAY | MRD MS | METAL ROOF DECKING MACHINE SCREWS | PSF PSI | POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH | STD STG | STANDARD W SEATING W | VSCT WAINSCOT VSD WATERSIDE |
| SC ABOVE SUSPENDED CEILING SPH ASPHALT | CRES CORROSIVE RESISTANT STEEL CRG CROSS GRAIN | FDMPR FDTN | FIRE DAMPER FOUNDATION | HYDR Hz | HYDRAULIC HERTZ | MT MT | METAL THRESHOLD MOUNT | PT PT. | POINT OF TANGENCY, PNEUMATIC TUBE POINT | STL STOR | STEEL W STORAGE W | VSE WATER SURFACE ELEVA VSP WELDED STEEL PIPE |
| TC ACOUSTICAL TILE CEILING | CRS COURSE(S) CS CAST STONE | FE FEB | FIRE EXTINGUISHER FIRE EXTINGUISHER BRACKET | I-80 IB | INTERSTATE 80 IMPORTED BORROW | MTD MTFR | MOUNTED METAL FURRING | PT CONC PTD | PAPER TOWEL DISPENSER | ST PR STR | STATIC PRESSURE W STRINGER W | VT WEIGHT VTH WIDTH |
| JTO AUTOMATIC /E AVENUE | CSK COUNTERSUNK CSMT CASEMENT | FEC FF | FIRE EXTINGUISHER CABINET FACTORY FINISH | IC ID | INTERCOM INSIDE DIAMETER | MTL MVBL | METAL MOVABLE | PTN PTR | PARTITION PAPER TOWEL RECEPTACLE | STRUCT STWY | STRUCTURAL W STAIRWAY W | VV WATER VALVE V/W WALL TO WALL |
| /G AVERAGE NG AMERICAN WIRE GAUGE | CT COURT, CERAMIC TILE, CURRENT TRANSFORM C TO C CENTER TO CENTER | MER FF EL FG | FINISH FLOOR ELEAVATION FINISHED GRADE | IE IESNA | INVERT ELEVATION ILLUMINATING ENGINEERING SOCIETY OF NORTH | | MULLION MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICE | | PAVED POLYVINYL CHLORIDE | SUB FL SUSP | SUBFLOOR W SUSPENDED W | WWF WELDED WIRE FABRIC WWM WELDED WIRE MESH |
| NT ACOUSTICAL WALL TREATMENT BEGINNING OF BRIDGE, BULLETIN BOARD BACK TO BACK | CTR CENTER CU CONDENSING UNIT | FGL FH | FIBERGLASS FIRE HYDRANT FLAT HEAD | AMERIC/ ILK | INTERLOCK | MW N | MONITORING WELL NORTH | PVG PVMT | PAVING PAVEMENT | SV SW | SHEET VINYL W SWITCH W | WWR WELDED WIRE REINFOR WAY TRANSFORMER |
| -B BACK-TO-BACK C BEGIN HORIZONTAL CURVE, BOOKCASE D BOARD | Cu COPPER CU FT CUBIC FEET | FH FHC | FLAT HEAD FIRE HOSE CABINET FLAT HEAD MACHINE SCREW | IN INCIN INCL | INCH, INCHES INCINERATOR INCLUDED | N/A NAD83 NAS | NOT APPLICABLE NORTH AMERICAN DATUM OF 1983 NORTH AREA STREAMS | PW PWS | PASS WINDOW PIPELINE WARNING SIGN | SWBD | | FMR TRANSFORMER SEC CROSS SECTION D YARD |
| | CUH CABINET UNIT HEATER CU YD CUBIC YARDS CUFPB CENTRAL VALLEY FLOOD PROTECTION BOARD | FHR FHS | FIRE HOSE RACK FIRE HOSE STATION | INSF INSUL | INSULATING FILL INSULATION | NAT NAVD88 | NATURAL NORTH AMERICAN VERTICAL DATUM OF 1988 | QT. QTR | QUARRY TILE QUART QUARTER | SVK SYM SYMM | SEWER Y SYMBOL Y SYMMETRICAL Y | D YARD D YARD DRAIN R YEAR |
| EJ BRICK EXPANSION JOINT EV BEVEL | CULV CULVERT CV CEILING VENT | FHWS FIG | FLAT HEAD WOOD SCREW FIGURE | INT INTM | INTERIOR INTERMEDIATE | NC NEC | NORMALLY CLOSED NATIONAL ELECTRICAL CODE | 1/4 RND QTY | QUARTER QUARTER ROUND QUANTITY | SYNTH SYS | | RS YEARS |
| TUM BITUMINOUS | CVH CONDUCTIVE VINYL HOMOGENEOUS (SHEET T CVHS CENTRAL VALLEY HYDROLOGY STUDY | | FINISH FINISH FLOOR | INV IP | INVERT IRON PIPE | NEMA ASSOCIA | NATIONAL ELECTRICAL MANUFACTURERS | R RA | RADIUS, RANGE, RISER RETURN AIR | T TAN | TREAD TANGENT | |
| T BED JOINT K BACK | CW COLD WATER CYL CYLINDER | FIXT FJT | FIXTURE FLUSH JOINT | IPS I.P.S. | IRON PIPE SIZE INSIDE PIPE SIZE | NEMDC NFPA | NATOMAS EAST MAIN DRAINAGE CANAL NATIONAL FIRE PROTECTION ASSOCIATION | RAB RA GR | RABBETED RETURN AIR GRILLE | TB TC | TOWEL BAR TERRA COTTA/ TEHAMA-COLUSA | |
| KF BACKFILL BUILDING LINE | D DEPTH d PENNY (AS IN NAIL - 10D) | FL FLASH | FLOW LINE FLASHING | IR JAN CLO | IRRIGATION JANITOR'S CLOSET | NGS NGVD | NATIONAL GEODETIC SURVEY NATIONAL GEODETIC VERTICAL DATUM | RAR RB | RETURN AIR REGISTER RUBBER BASE, RESILIENT BASE | TCCA TCP | TEHAMA-COLUSA CANAL AUTHORITY TRAFFIC CONTROL PLAN | |
| LDG BUILDING LVD BOULEVARD | D.O.T. DEPARTMENT OF TRANSPORTATION DAT DATUM | FLR FLEX | FLOOR FLEXIBLE | J-BOX JCT | JUNCTION BOX JUNCTION | Ni NIC | NICKEL NOT IN CONTRACT | RBL RBR | RUBBLE STONE RUBBER | TEL TEMP | TELEPHONE TEMPORARY, TEMPERATURE | |
| LW BELOW M BENCHMARK | DB DRY BULB DBL DOUBLE | FLG FLR PL | FLOORING FLOOR PLATE | JST JT | JOIST JOINT | NL N.L. | NAILABLE NEOPRENE LATEX | RC RCP | REMOTE CONTROL REINFORCED CONCRETE PIPE | TER TERM | TERRAZZO TERMINAL | |
| O BOTTOM OF | DBL ACT DR DOUBLE ACTING DOOR DCJ DOWELED CONTROL JOINT | FLUOR FN | FLUORESCENT FENCE | KIT KOP | KILOPOUND (1000 POUNDS) KITCHEN | NM NO | NONMETALLIC NUMBER, NORMALLY OPEN | RCVR RD | RECEIVER ROAD, ROOF DRAIN | T&G TG | TONGUE AND GROOVE TOP OF GRADE | |
| OT BOTTOM P BEGINNING POINT, BACK PLASTER(ED) R BRIDGE | DCJT DUMMY CONTROL JOINT DEG DEGREE DEMOCRATION | FNK FO | FUNKS FIBER OPTIC FACE OF CONCRETE | KOP KPL | KNOCKOUT PANEL KICKPLATE KILOVOLTS | NOM NR NRC | NOMINAL NOISE REDUCTION NOISE REDUCTION COEFFICIENT | RDG INS RDY RECPT | RIGID INSULATION ROADWAY RECEPTACLE | TH | TOGGLE TRUSS HEAD | |
| BR BRIDGE BRCG BRACING BRDG BRIDGING | DEMO DEMOLITION DEPR DEPRESSION DEPT DEPARTMENT | FOF FOM | FACE OF CONCRETE FACE OF FINISH FACE OF MASONRY | kV kVA kVAR | KILOVOLTS KILOVOLT AMPERES KILOVOLT AMPERES REACTIVE | N"REQD NTS | NOISE REDUCTION COEFFICIENT NOT REQUIRED NOT TO SCALE | | DM RECREATION ROOM RECTIFIER | THK THRES THW | THICK(NESS) THRESHOLD TOP OF HEADWALL | |
| BRG BEARING BRG PL BEARING PLATE | DET DETAIL DF DRINKING FOUNTAIN | FOS FP | FACE OF STUD FIRE PARTITION | kW KWY | KILOWATT KEYWAY | NWSE O-O | NEW WATER SURFACE ELEVATION OUT-TO-OUT | REF REFI | REFERENCE REFLECT | TK BD TKS | TACKBOARD TACKSTRIP | |
| RK BRICK RKT BRACKET | DH DOUBLE HUNG DH DUCT HEATER | FP FPM | FIREPROOF FEET PER MINUTE | L LAB | LENGTH LABORATORY | OA OBSC | OUTSIDE AIR OBSCURE | REFR REG | REFRIGERATION REGISTER | TO TOC | TOP OF TOP OF CONCRETE | |
| RZ BRONZE S BOTH SIDES | DI DRAINAGE INLET, DROP INLET DIA, Ø DIAMETER | FR FR | FIRE RESISTANT FRAME | LAD LAM | LADDER LAMINATE | OBW OC | OBSERVATION WINDOW ON CENTER | REG REINF | REGLET REINFORCE | TOL TOP | TOP OF LEVY, TOLERANCE TOP OF PIPE | |
| SMT BASEMENT tu BRITISH THERMAL UNIT | DIAG DIAGONAL DIM DIMENSION | FRG FRMG | FORGED FRAMING | LAT LAU | LEAVING AIR TEMPERATURE LAUNDRY | OCEW OD | ON CENTER EACH WAY OUTSIDE DIAMETER | REL REM | RELOCATE REMOVE(ABLE) | TOPO TOS | TOPOGRAPHY TOP OF SLOPE, TOP OF SLAB, TOP OF STEEL | |
| tuH BTU PER HOUR TWN BETWEEN | DIP DUCTILE IRON PIPE DISC DISCONNECT | FRT FS | FIRE-RETARDANT FULL SIZE | LAV LB | LAVATORY LAG BOLT | OFC OG | OFFICE ORIGINAL GROUND | REPL REQD | REPLACEMENT REQUIRED | TOT TOW | TOTAL TOP OF WALL | |
| V BALL VALVE UR BUILT-UP ROOFING | DISP DISPENSER DIST DISTANCE | FSTNR FT | FASTEN(ER) FEET, FOOT | LB LBL | POUND LABEL | OGL OH | OBSCURE GLASS OVERHEAD | RESIL RET | RESILIENT RETAINING, RETURN | TP TPD | TELEPHONE POLE TOILET PAPER DISPENSER | |
| V BOTH WAYS, BARBED WIRE | DISTR PNL DISTRIBUTION PANEL DIV DIVISION | FTG FURG | FOOTING FURRING | LBR LC | LUMBER LIGHT CONTROL | OHW OHWM | OVERHEAD WIRE ORDINARY HIGH WATER MARK | REV RFG | REVISED, REVISION ROOFING | TPTN TRANS | TOILET PARTITION TRANSITION, TRANSOM, TRANSVERSE | |
| AB CABINET AP CAPACITY ADVICE COMPRISATION AIR RELEASE VALVE | DL DEAD LOAD DMPF DAMPPROOFING | FUI FW | FUTURE FIRE WATER FARRIO WALL COVERNO | LD LDG | LOAD LOADING | OHMS OHWS | OVALHEAD MACHINE SCREW OVALHEAD WOOD SCREW | RH RH | RELATIVE HUMIDITY RIGHT HAND | TRR TRW | TERMINAL REGULATING RESERVOIR TERMINAL REGULATING RESERVOIR WEST | |
| ARV COMBINATION AIR RELEASE VALVE B CATCH BASIN, CEMENT BENTONITE -C CENTER-TO-CENTER | DMPR DAMPER DMT DEMOUNTABLE | G CA | FABRIC WALL COVERING NATURAL GAS GAGE | LF LG | LINEAR FOOT (FEET) LENGTH LEFT HAND(ED) | OPH OPNG | OPPOSITE HAND OPENING | RK RK | ROOF HATCH RACK RAILING | TSTAT TV | THERMOSTAT TELEVISION | |
| -C CENTER-TO-CENTER CS CALIFORNIA COORDINATE SYSTEM CT CUBICLE CURTAIN TRACK | DN DOWN DNP DUNNIGAN PIPELINE DR DOOR, DRAIN, DRIVE | GAL GALV | GALLON(S) GALVANIZED | LIN LIN | LINEAR LOCKER | OPP OPQ OPS | OPPOSITE OPAQUE OPERATIONS | RLG RM | RAILING RIVER MILE, ROOM ROUND | UC UCNI | TYPICAL UNIT COOLER D UNDERGROUND | |
| CTV CLOSED CIRCUIT TELEVISION COVER ELEVATION | DRB DRAINBOARD DR CL DOOR CLOSER | GALV GALV STL GB | GALVANIZED GALVANIZED STEEL GRADE BREAK, GRAB BAR | LL LL | LIVE LOAD LEAD-LINED DOOR | OPS OPT OS & Y | OPERATIONS ONE PASS TRENCH METHOD OUTSIDE SCREW AND YOKE | RO ROW | ROUGH OPENING RIGHT OF WAY | UG, UGNI UH | UNIT HEATER UNDERWRITERS LABORATORIES | |
| EM CEMENT EM PLAS CEMENT PLASTER | DS DOWNSPOUT, DOUBLE STRENGTH (GLASS) DSM DEEP SOIL MIX | GC GCID | GRADE BREAK, GRAD BAK GENERAL CONTRACTOR GLENN-COLUSA IRRIGATION DISTRICT | LM LMST | LUMEN LIMESTONE | OS & T OSHA ADMINIST | OCCUPATIONAL SAFETY AND HEALTH | RP RPM | RADIUS POINT, RETRACTABLE PARTITION REVOLUTIONS PER MINUTE | ULDC UNEX | UNDERWRITERS LABORATORIES URBAN LEVEE DESIGN CRITERIA UNEXCAVATED | |
| R CERAMIC I CONDUCTIVE FLOORING | DTL DETAIL DT DRAIN TILE | GEN GF | GENERAL GROUND FACE | LNTL LOL | LINTEL LAYOUT LINE | OWGL P | OBSCURE WIRED GLASS POLE | RPRT RR | RAISED PATTERN RUBBER TILE RAILROAD | UNFIN U.P.R.R. | UNFINISHED UNION PACIFIC RAILROAD | |
| FLG COUNTERFLASHING FM CUBIC FEET PER MINUTE | DVTL DOVETAIL DWG DRAWING | GFCI GFE | GROUND FAULT CIRCUIT INTERRUPTER GOVERNMENT-FURNISHED EQUIPMENT | LONG LP | LONGITUDINAL LIGHTPROOF | PA PAR | PUBLIC ADDRESS PARALLEL | RSP RT | ROCK SLOPE PROTECTION RIGHT | UPS UR | UNINTERRUPTIBLE POWER SUPPLY URINAL | |
| CUBIC FEET PER SECOND CORNER GUARD | DWLS DOWELS DWR DEPARTMENT OF WATER RESOURCES, DRAW | GFE/CI ER CONTRACT | GOVERNMENT-FURNISHED EQUIPMENT TOR INSTALLED | LPD LPL | LIGHTPROOF DOOR LIGHTPROOF LOUVER | PB PBD | PANIC BAR PARTICLE BOARD | RTE RTF | ROUTE RUBBER TILE FLOOR | USACE USBR | U.S. ARMY CORPS OF ENGINEERS UNITED STATES BUREAU OF RECLAMATION | |
| H BD CHALKBOARD HFR CHAMFER | DX DIRECT EXPANSION DWY DRIVEWAY | GG Gl | GOLDEN GATE DAM GALVANIZED IRON | LPT LR | LOW POINT LONG RADIUS, LIVING ROOM | PBS PC | PUSH BUTTON STATION POINT OF CURVATURE, PIECE | RVS RVT | REVERSE RIVET | UTIL UV | UTILITY UNIT VENTILATOR | |
| HIM CHIMNEY HK CHECK | E EAST, EASTING EA EACH | GIP GKT | GALVANIZED IRON PIPE GASKET(ED) | LS LT | LANDSIDE, LAWN SPRINKLER LEFT, LIGHT | PCC PCF | POINT OF COMPOUND CURVE, PRECAST CONCRE- | RW | RELIEF WELL, RAW WATER | V VAC | VOLT VACUUM | |
| HNL CHANNEL HR PL CHROME PLATED | EAT ENTERING AIR TEMPERATURE EB END OF BRIDGE | GL GL BLK | GLASS GLASS BLOCK | LT WT LTG | LIGHTWEIGHT LIGHTING | PCP PCVC | CEMENT PLASTER (PORTLAND) POINT OF COMPOUND VERTICAL CURVE | RWC S | RAINWATER CONDUCTOR SOUTH | VAR VB | VARIES, VARNISH VINYL BASE | |
| CAST IRON, CURB INLET CAST-IN-PLACE | EC END HORIZONTAL CURVE ECR END CURB RETURN | GLF GLZ | GLASS FIBER GLAZING GLAZED CONCRETE MASONRY LINITS | LTNG LVR LWC | LIGHTNING LOUVER LIGHTWEIGHT CONCRETE | PD PED BEBE | PAVEMENT DRAIN PEDESTAL PEDEORATE(D) | SA SAFCA | SUPPLY AIR SACRAMENTO AREA FLOOD CONTROL AGENCY | VC VCT | VERTICAL CURVE VINYL COMPOSITION TILE | |
| | EF, E.F. EACH FACE EG EXISTING GRADE EJ EXPANSION JOINT | GLZ CMU GND GOVT | GLAZED CONCRETE MASONRY UNITS GROUND GOVERNMENT | LWC LWT m | LIGHTWEIGHT CONCRETE LEAVING WATER TEMPERATURE METER(S) | PERF PERIM PG | PERFORATE(D) PERIMETER PROFILE GRADE | o.b. SB SBF | SECURITY BARS SOIL BENTONITE, SPLASH BLOCK SOUTH BAY FOUNDRY | VCT VD VENT | VITRIFIED CLAY TILE VAULT DOOR VENTILATOR(TION) | |
| J CONTROL JOINT | | GPM | GALLONS PER MINUTE | M&B MAINT | MATCHED AND BEADED MAINTENANCE | PG&E PGP | PACIFIC GAS & ELECTRIC PUMPING AND GENERATING PLANT | SC SCB | SOUTH BAY FOUNDRY SOLID CORE SOIL-CEMENT-BENTONITE | VERT VEST | VERTICAL VESTIBULE | |
| CONTROL JOINT CONSTRUCTION JOINT CIRCUIT | EL ELEVATION - GRADE OR BUILDING ELECT ELECTRIC | GPT | GYPSUM TILE | | | | | | | | | |
| CONTROL JOINT CONSTRUCTION JOINT CKT CIRCUIT | ELECT ELECTRIC DESIGNED BY: D. CAVE | | | \Box | REGISTERED | | | | SIT | ES R | RESERVOIR | |
| CJ CONTROL JOINT CJ CONSTRUCTION JOINT | ELECT ELECTRIC DESIGNED BY: | | Jacobs | | PROFESSIONAL | 1 | | | | | | BAR IS ONE INCH O |
| CONTROL JOINT CONSTRUCTION JOINT CIRCUIT | DESIGNED BY: D. CAVE DRAWN BY: D. CAVE CHECKED BY: | GPT | | | PROFESSIONAL | | Citos | - | | TES PU | RESERVOIR MPING AND GENERATING ENERAL | BAR IS ONE INCH O DRAWING, ADJUST REDUCED F |
| J CONTROL JOINT J CONSTRUCTION JOINT KT CIRCUIT | DESIGNED BY: D. CAVE DRAWN BY: D. CAVE | GPT | Jacobs | | PROFESSIONAL | | Sites | | MAXWELL / SIT | TES PUI GE | MPING AND GENERATING | BAR IS ONE INCH O DRAWING, ADJUST REDUCED P |





DESCRIPTION

DATE BY CHK. APPR.

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 OUT.

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 ELEVATED 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

LOCATE ELEVATED SLAB AND BEAM TOP BAR SPLICES AT MIDSPAN AND BOTTOM BAR SPLICES AT 8. 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 DESIGN STRENGTH = 4,000 PSI *** GRADE 60 REINFORCING STEEL | | | | | | | | | |
|---|---|--|---|--|--|--|---|---|--|
| | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
| E LENGTH *** | | | | | | | | | |
| TOP BAR ★ | 1'-4" | 1'-8" | 2'-1" | 3'-0" | 5'-2" | 6'-8" | 8'-6" | 10'-10" | 13'-4" |
| OTHER BAR | 1'-4" | 1'-4" | 1'-8" | 2'-4" | 4'-0" | 5'-2" | 6'-7" | 8'-4" | 10'-3" |
| TOP BAR ★ | 1'-4" | 1'-8" | 2'-0" | 2'-5" | 3'-10" | 5'-0" | 6'-5" | 8'-1" | 10'-0" |
| OTHER BAR | 1'-4" | 1'-4" | 1'-7" | 1'-10" | 3'-0" | 3'-11" | 4'-11" | 6'-3" | 7'-8" |
| TOP BAR ★ | 1'-4" | 1'-8" | 2'-0" | 2'-5" | 3'-6" | 4'-0" | 5'-0" | 6'-2" | 7'-5" |
| OTHER BAR | 1'-4" | 1'-4" | 1'-7" | 1'-10" | 2'-9" | 3'-1" | 3'-10" | 4'-9" | 5'-8" |
| EMBEDMENT LENGTH | | | | | | | | | |
| TOP BAR ★ | 1'-0" | 1'-3" | 1'-8" | 2'-4" | 4'-0" | 5'-2" | 6'-7" | 8'-4" | 10'-3" |
| OTHER BAR | 1'-0" | 1'-0" | 1'-3" | 1'-10" | 3'-1" | 4'-0" | 5'-1" | 6'-5" | 7'-11" |
| TOP BAR ★ | 1'-0" | 1'-3" | 1'-7" | 1'-10" | 3'-0" | 3'-11" | 4'-11" | 6'-3" | 7'-8" |
| OTHER BAR | 1'-0" | 1'-0" | 1'-3" | 1'-5" | 2'-4" | 3'-0" | 3'-10" | 4'-10" | 5'-11" |
| TOP BAR ★ | 1'-0" | 1'-3" | 1'-7" | 1'-10" | 2'-9" | 3'-1" | 3'-10" | 4'-9" | 5'-8" |
| OTHER BAR | 1'-0" | 1'-0" | 1'-3" | 1'-5" | 2'-1" | 2'-5" | 3'-0" | 3'-8" | 4'-5" |
| | TOP BAR * OTHER BAR TOP BAR * | #3 E LENGTH *** TOP BAR * 1'-4" OTHER BAR 1'-4" TOP BAR * 1'-4" OTHER BAR 1'-4" TOP BAR * 1'-4" OTHER BAR 1'-4" OTHER BAR 1'-0" TOP BAR * 1'-0" | #3 #4 E LENGTH *** TOP BAR * 1'-4" 1'-8" OTHER BAR 1'-4" 1'-4" TOP BAR * 1'-4" 1'-8" OTHER BAR 1'-4" 1'-8" OTHER BAR 1'-4" 1'-8" OTHER BAR 1'-4" 1'-4" TOP BAR * 1'-0" 1'-3" OTHER BAR 1'-0" 1'-0" TOP BAR * 1'-0" 1'-3" OTHER BAR 1'-0" 1'-0" TOP BAR * 1'-0" 1'-3" OTHER BAR 1'-0" 1'-3" | #3 #4 #5 E LENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" OTHER BAR 1'-4" 1'-8" 2'-0" OTHER BAR 1'-4" 1'-4" 1'-7" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" OTHER BAR 1'-0" 1'-0" 1'-3" TOP BAR * 1'-0" 1'-3" 1'-7" OTHER BAR 1'-0" 1'-0" 1'-3" TOP BAR * 1'-0" 1'-0" 1'-3" TOP BAR * 1'-0" 1'-0" 1'-3" | #3 #4 #5 #6 E LENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" 3'-0" OTHER BAR 1'-4" 1'-4" 1'-8" 2'-4" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" 2'-4" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-10" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" | #3 #4 #5 #6 #7 ELENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" 3'-0" 5'-2" OTHER BAR 1'-4" 1'-4" 1'-8" 2'-4" 4'-0" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" 3'-10" OTHER BAR 1'-4" 1'-8" 2'-0" 2'-5" 3'-6" OTHER BAR 1'-4" 1'-8" 2'-0" 2'-5" 3'-6" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" 2'-9" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" 2'-4" 4'-0" OTHER BAR 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" OTHER BAR 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" OTHER BAR 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" 2'-9" | #3 #4 #5 #6 #7 #8 ELENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" 3'-0" 5'-2" 6'-8" OTHER BAR 1'-4" 1'-4" 1'-8" 2'-4" 4'-0" 5'-2" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" 3'-10" 5'-0" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" 3'-0" 3'-11" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" 3'-6" 4'-0" OTHER BAR 1'-4" 1'-8" 2'-0" 2'-5" 3'-6" 4'-0" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" 2'-9" 3'-1" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" 2'-4" 4'-0" 5'-2" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-10" 3'-0" 3'-11" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" 3'-11" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" TOP BAR * 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" 2'-9" 3'-1" | #3 #4 #5 #6 #7 #8 #9 ELENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" 3'-0" 5'-2" 6'-8" 8'-6" OTHER BAR 1'-4" 1'-4" 1'-8" 2'-4" 4'-0" 5'-2" 6'-7" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" 3'-10" 5'-0" 6'-5" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" 3'-0" 3'-11" 4'-11" TOP BAR * 1'-4" 1'-8" 2'-0" 2'-5" 3'-6" 4'-0" 5'-0" OTHER BAR 1'-4" 1'-4" 1'-7" 1'-10" 2'-9" 3'-1" 3'-10" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" 2'-4" 4'-0" 5'-2" 6'-7" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-10" 3'-1" 4'-0" 5'-1" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" 3'-0" 3'-11" 4'-11" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" 3'-10" TOP BAR * 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" 3'-10" | #3 #4 #5 #6 #7 #8 #9 #10 ELENGTH *** TOP BAR * 1'-4" 1'-8" 2'-1" 3'-0" 5'-2" 6'-8" 8'-6" 10'-10" OTHER BAR 1'-4" 1'-4" 1'-8" 2'-0" 2'-5" 3'-10" 5'-2" 6'-7" 8'-4" TOP BAR * 1'-4" 1'-4" 1'-7" 1'-10" 3'-0" 3'-11" 4'-11" 6'-3" TOP BAR * 1'-4" 1'-4" 1'-7" 1'-10" 2'-9" 3'-1" 3'-10" 4'-9" NT LENGTH TOP BAR * 1'-0" 1'-3" 1'-8" 2'-4" 4'-0" 5'-2" 6'-7" 8'-4" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-10" 3'-1" 4'-0" 5'-1" 6'-5" TOP BAR * 1'-0" 1'-0" 1'-3" 1'-10" 3'-1" 4'-0" 5'-1" 6'-5" TOP BAR * 1'-0" 1'-0" 1'-3" 1'-10" 3'-1" 4'-0" 5'-1" 6'-5" TOP BAR * 1'-0" 1'-0" 1'-3" 1'-10" 3'-0" 3'-11" 4'-11" 6'-3" OTHER BAR 1'-0" 1'-0" 1'-3" 1'-5" 2'-4" 3'-0" 3'-10" 4'-10" TOP BAR * 1'-0" 1'-3" 1'-7" 1'-10" 2'-9" 3'-1" 3'-10" 4'-10" |

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".

Jacobs REDDING, CA 96001 (530) 243-5831

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



SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING **GENERAL** STRUCTURAL NOTES 1

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

> DRAWING NO. MPG-0001-G-0301

6 OF 70 SHT

PROVIDE FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS IN CELLS ADJACENT TO OPENINGS AS SHOWN IN DETAIL 0422-002.

GROUTING: SOLID GROUT ALL CMU WALLS.

DO NOT PLACE CONDUIT IN CELLS CONTAINING PARALLEL REINFORCEMENT.

WALLS, SEE DETAIL 0521-022.

JOISTS SHALL BE CAMBERED FOR DEAD LOAD AS REQUIRED BY SJI. PROVIDE STANDARD SJI CAMBER UNLESS NOTED OTHERWISE. JOIST CAMBER SHALL BE SHOWN ON SHOP DRAWINGS.

STEEL DECKING

- FOR DECK SIZE, GAGE, AND FASTENING CONFIGURATIONS, SEE FRAMING PLANS. FASTENING CONFIGURATIONS SHOWN ARE SPECIFIC TO THE DECK PRODUCT USED AS BASIS OF DESIGN. CONTRACTOR SHALL FASTEN THE DECKING IN ACCORDANCE WITH INSTALLED DECK MANUFACTURER'S RECOMMENDATIONS TO MEET SPECIFIED CAPACITY REQUIREMENTS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE SHEET
- DECKING SHALL HAVE A MINIMUM 1 1/2 INCHES BEARING ON SUPPORTS.
- DECKING SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM, EXCEPT WHERE SHOWN
- LOCATE OPENINGS FOR EQUIPMENT PER OTHER DISCIPLINE DRAWINGS.

DEFERRED SUBMITTALS

- 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 ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK.
- 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 REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE.

| SPECIFICATION SECTION | ITEM |
|--------------------------|--|
| 01 88 15 | ANCHORAGE AND BRACING |
| 05 21 19 | OPEN WEB STEEL JOIST FRAMING |
| 33 16 13.12 | BOLTED STEEL STORAGE TANK |
| 40 05 15 | PIPING SUPPORT SYSTEMS |
| OTHER | ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS |

DESIGNED BY J. KELLOGG DRAWN BY: S. METCALF CHECKED BY H. HENRIKSON IN CHARGE: P. RUDE DATE: 10-06-2023 DATE BY CHK. APPR. DESCRIPTION

REDDING, CA 96001 (530) 243-5831

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



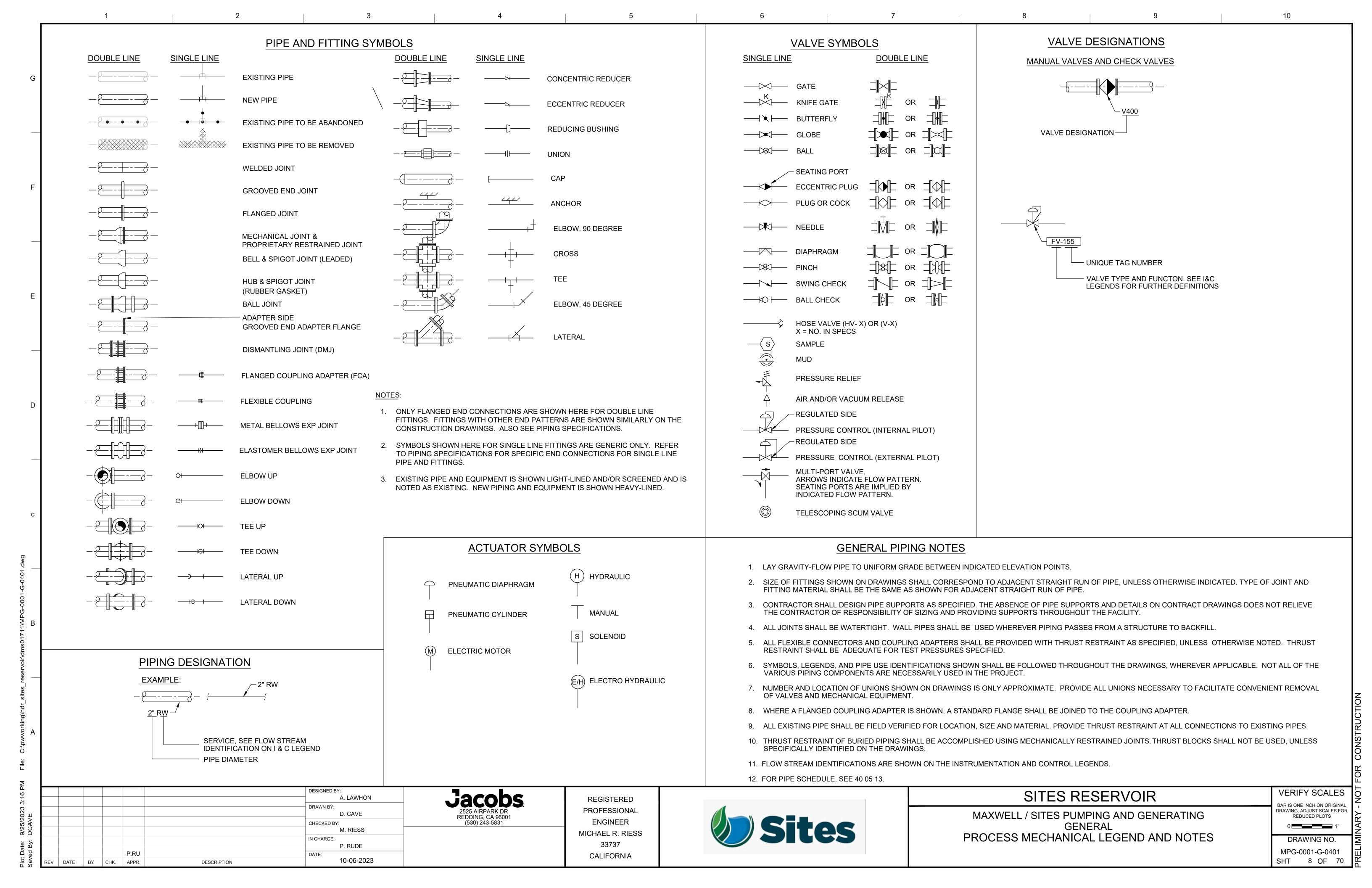
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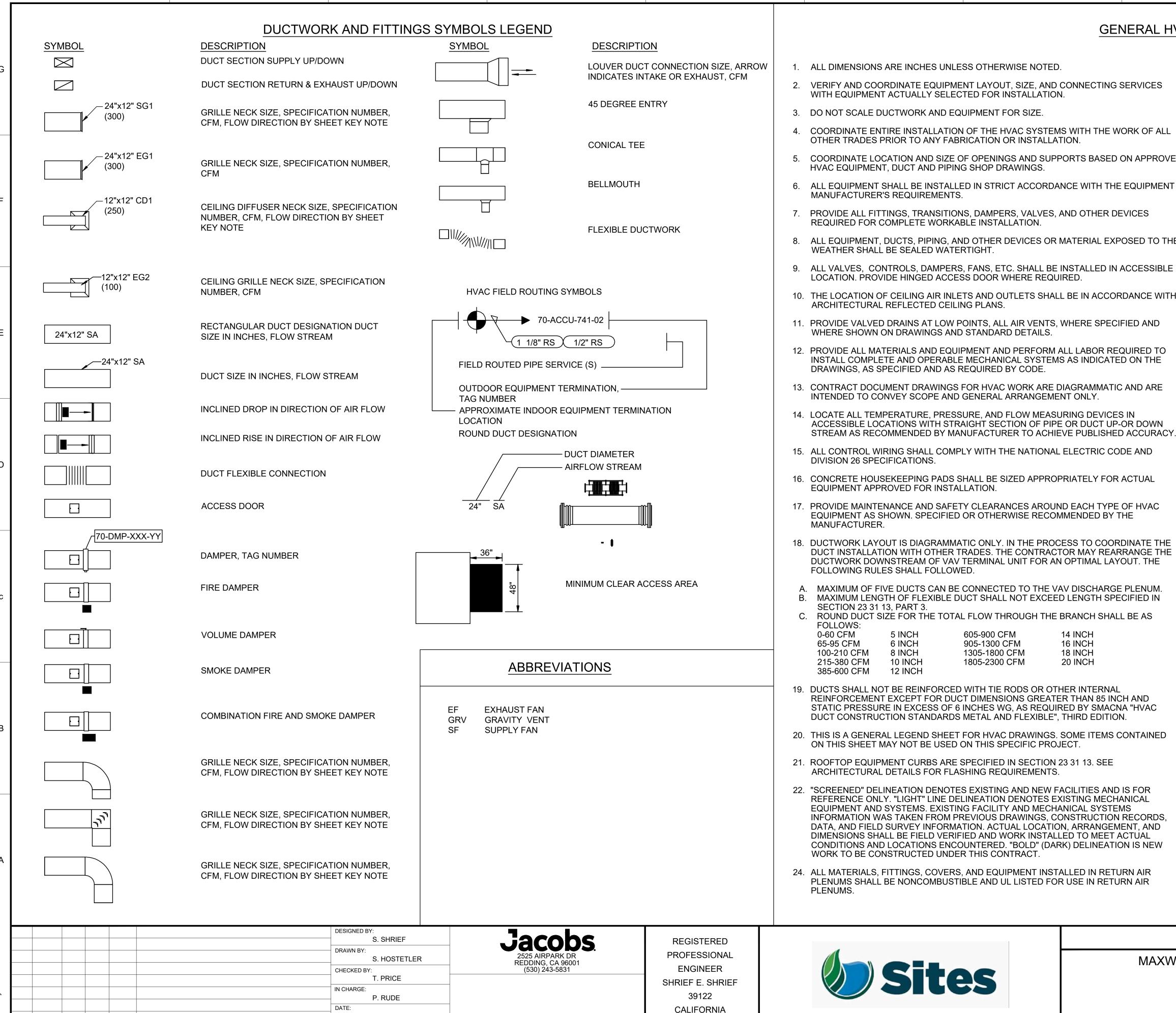
MAXWELL / SITES PUMPING AND GENERATING **GENERAL** STRUCTURAL NOTES 2

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

> 0 _____ 1' DRAWING NO.

MPG-0001-G-0302 7 OF 70





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
- 7. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES
- 8. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES OR MATERIAL EXPOSED TO THE
- 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
- 11. PROVIDE VALVED DRAINS AT LOW POINTS, ALL AIR VENTS, WHERE SPECIFIED AND
- 12. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE
- 13. CONTRACT DOCUMENT DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE
- 14. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP-OR DOWN
- 15. ALL CONTROL WIRING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND
- 16. CONCRETE HOUSEKEEPING PADS SHALL BE SIZED APPROPRIATELY FOR ACTUAL
- 17. PROVIDE MAINTENANCE AND SAFETY CLEARANCES AROUND EACH TYPE OF HVAC EQUIPMENT AS SHOWN. SPECIFIED OR OTHERWISE RECOMMENDED BY THE
- 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
- MAXIMUM OF FIVE DUCTS CAN BE CONNECTED TO THE VAV DISCHARGE PLENUM. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED LENGTH SPECIFIED IN
- C. ROUND DUCT SIZE FOR THE TOTAL FLOW THROUGH THE BRANCH SHALL BE AS
- 14 INCH 16 INCH 1305-1800 CFM 18 INCH 1805-2300 CFM 20 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

- 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
- 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.

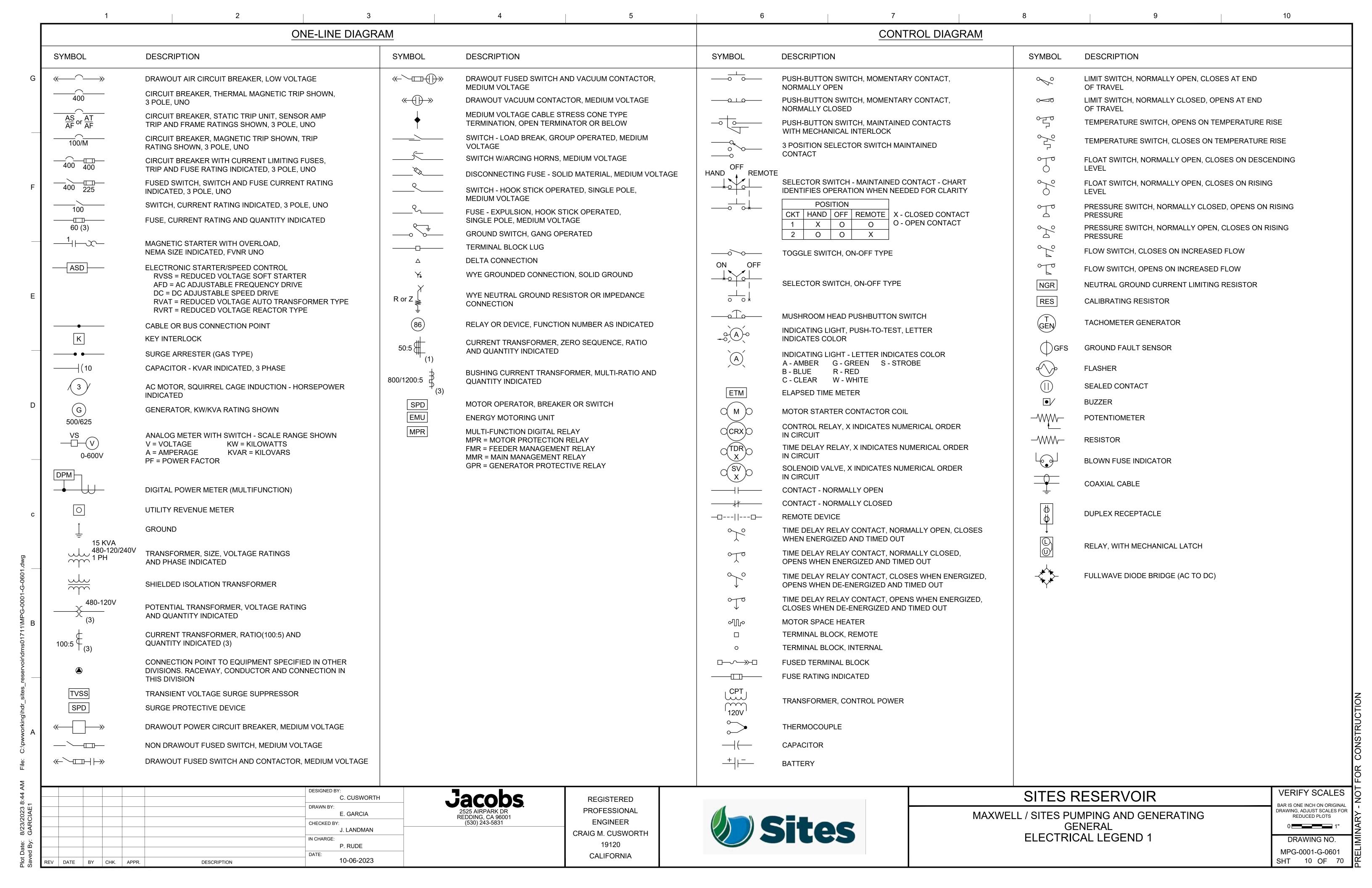
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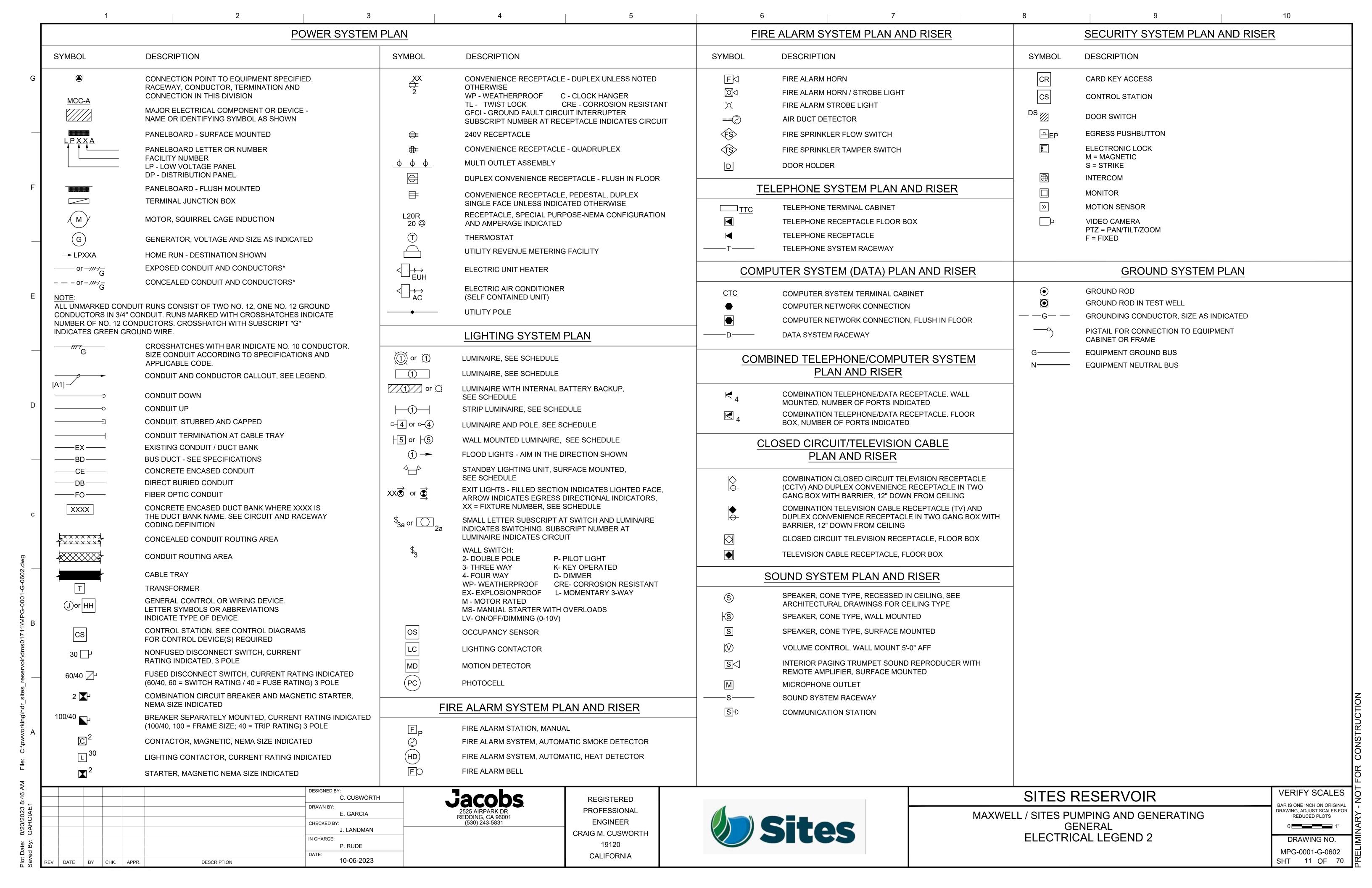
VERIFY SCALES

MAXWELL / SITES PUMPING AND GENERATING **GENERAL HVAC LEGEND**

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

DRAWING NO. MPG-0001-G-0502 9 **OF** 70 SHT





19120

CALIFORNIA

P. RUDE

10-06-2023

DATE:

DESCRIPTION

DATE BY CHK. APPR.

| POWER CIRCUIT CALLOUTS | | | | | 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] | | EMPTY CONDITION | | | |
| [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#10,2#14,1#10G] | [P40] | [2"C,3#1, 3#14,1#6G] | [EC-7] | [4"C,WITH PULL STRING] | | | |
| [P18] | [3/4"C,3#10,3#14,1#10G] | [P41] | [2"C,3#2/0, 1#4G] | [EC-8] | [5"C,WITH PULL 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] | | | | | | | |
| | | CONTR | OL CIDCUIT CALLOUTS | MULTICON | NDUCTOR CONTROL CABLE CIRCUIT CALLOUTS | | | |
| | LOG CIRCUIT CALLOUTS | CONTR | OL 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] | | | |
| " " | [1 0,5 11 1 2 5] | | | | | | | |
| [A4] | [1 1/4"C,4 TYPE 3] | [C4] | [3/4"C,4#14,1#14G] | [CC9] | [1"C,1-9C 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] | | | |
| [A4] [A5] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] | [C4] [C5] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] | [CC9] [CC12] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] | | | |
| [A4] [A5] [A6] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] | [C4] [C5] [C6] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] | [CC9] [CC12] [CC19] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] | [C4] [C5] [C6] [C7] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] | [CC9] [CC12] [CC19] [CC25] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] | [C4] [C5] [C6] [C7] [C8] [C9] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] [A10] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
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| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [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] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [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] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
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| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] [A23] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 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,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C16] [C17] [C18] [C19] [C20] [C21] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#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] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 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,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C18] [C19] [C20] [C21] [C22] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [3/4"C,11#14,1#14G] [3/4"C,12#14,1#14G] [3/4"C,13#14,1#14G] [1"C,15#14,1#14G] [1"C,16#14,1#14G] [1"C,17#14,1#14G] [1"C,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,22#14,1#14G] [1"C,22#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |
| [A4] [A5] [A6] [A7] [A8] [A9] [A10] [A11] [A12] [A13] [A14] [A15] [A16] [A17] [A18] [A19] [A20] [A21] [A22] [A23] | [1 1/4"C,4 TYPE 3] [1 1/4"C,5 TYPE 3] [1 1/4"C,6 TYPE 3] [1 1/2"C,7 TYPE 3] [1 1/2"C,8 TYPE 3] [1 1/2"C,9 TYPE 3] [2"C,10 TYPE 3] [2"C,11 TYPE 3] [2"C,12 TYPE 3] [2"C,13 TYPE 3] [2"C,14 TYPE 3] [2"C,14 TYPE 4] [3/4"C,1 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,5 TYPE 4] [1 1/4"C,6 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,7 TYPE 4] [1 1/2"C,8 TYPE 4] | [C4] [C5] [C6] [C7] [C8] [C9] [C10] [C11] [C12] [C13] [C14] [C15] [C16] [C17] [C18] [C18] [C19] [C20] [C21] [C22] [C23] | [3/4"C,4#14,1#14G] [3/4"C,5#14,1#14G] [3/4"C,6#14,1#14G] [3/4"C,7#14,1#14G] [3/4"C,8#14,1#14G] [3/4"C,9#14,1#14G] [3/4"C,10#14,1#14G] [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,19#14,1#14G] [1"C,20#14,1#14G] [1"C,20#14,1#14G] [1"C,22#14,1#14G] [1"C,22#14,1#14G] [1"C,23#14,1#14G] | [CC9] [CC12] [CC19] [CC25] [CC37] | [1"C,1-9C TYPE 1] [1"C,1-12C TYPE 1] [1 1/2"C, 1-19C TYPE 1] [1 1/2"C,1-25C TYPE 1] [2"C,1-37C TYPE 1] | | | |

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL

DRAWING, ADJUST SCALES FOR

REDUCED PLOTS

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DRAWING NO.

MPG-0001-G-0603

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