





WEATHERPROOF SHEET STEEL PULL BOXES SHALL BE FABRICATED OF CODE GAUGE GALVANIZED SHEET STEEL WITH TWO COATS OF RUST RESISTANT FINISH AND SHALL BE FURNISHED WITH GASKET AND MADE COMPLETELY WEATHERTIGHT.

STRAIGHT AND TRUE WITH REFERENCE TO THE ADJACENT CONSTRUCTION. DEVICE COLOR TO BE IVORY IN LIGHT COLORED WALLS AND BROWN IN DARK COLORED WALLS. GENERAL CONDUIT I" AND ABOVE SHALL HAVE INSULATED THROAT BUSHINGS. ALL MATERIALS, APPLIANCES AND EQUIPMENT EXCEPT THAT FURNISHED WEATHERPROOF UNDERGROUND CONCRETE PULL BOXES. JUNCTION CONDUCTORS WEATHERPROOF UNDERSOUND CONCRETE PULL BOXES, JUNCTION BOXES AND TELEPHONE BOXES BHALL BE MANUFACTURED BY CHRIST CONCRETE PRODUCTS, QUINCET ASSOCIATED CONCRETE PRODUCTS, QUINCET ASSOCIATED CONCRETE PRODUCTS OR COUNTY PRODUCTS OR MARKED 'FOWER', "SIGNAL", "TIBER OPTIC", "DANGER. HIGH MARKED 'FOWER', "SIGNAL", "TIBER OPTIC", "DANGER. HIGH ES-A MININUM WHERE PULL BOX OCCURS IN VEHICULAR TRAFFIC AREAS. BY THE OWNER SHALL BE NEW, BEAR U.L. LABEL AND OF THE MAKE, BRAND OR QUALITY SPECIFIED OR AS ACCEPTED BY THE ARCHITECT AS HEREIN PROVIDED. THIS SHALL ALSO APPLY TO ALL PARTS OF THE WORK WHETHER OR NOT THIS PARTICULAR PARAGRAPH IS REFERRED TO BY NUMBER. ALL EMPTY CONDUIT SHALL BE EQUIPPED WITH A #12 GALVANIZED IRON PULL WIRE OR NYLON PULL ROPE CONTINUOUS FROM OUTLET TO FLEXIBLE CONNECTIONS IN OUTDOOR AND DAMP LOCATIONS SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES AND APPROVED BY THE JOB INSPECTOR BEFORE SAME IS INSTALLED. FLEXIBLE LIQUID-TIGHT METAL CONDUIT OR NON-CORROSIVE SEAMLESS METALLIC TUBING WITH WATER-TIGHT CONNECTIONS. ALL AFPARATUS, CONDUIT SYSTEMS, ETC., SHALL BE INSTALLED AND INTERCONNECTIOS DO A 10 FORM COMMETE SYSTEMS AS HEREIN SYSTEMS AS HEREIN SYSTEMS AND INSTALL ALL WORK NECESSARY TO CONTRACTOR SHALL INRIGHT AND INSTALL ALL WORK NECESSARY TO CONTRACTOR SHALL INRIGHT AND INSTALL ALL WORK NECESSARY TO CONTRACTOR SHALL INRIGHT ON HOLD STALL SHALL AND INSTALL ALL WORK NECESSARY OF THE CONTRACTOR OF THE CONTRACTOR SHALL AND INSTALL AN DRP ENTERPRISES, EXPANSION JOINTS FOR CONDUIT SHALL BE PROVIDED WHERE REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. ALL CONDUCTORS SHALL BE TYPE COPPER WITH THWN INSULATION UNLESS OTHERWISE NOTED. P O BOY 4428 PALM SPRINGS, CA NO CONDUIT SMALLER THAN 1/2 INCH ELECTRICAL TRADE SIZE SHALL BE 92263 RACEWAYS AND FITTINGS: END OF SPECIFICATIONS \*\* STANDARD GALVANIZED, NATIONAL, STEEL CITY, APPLETON, BOWERS OR APPROVED EQUAL. SHALL BE AS MANUFACTURED BY TRIANGLE CONDUIT AND CABLE COMPANY, ALLEED TUBE AND CONDUIT CORPORATION, AMERICAN FLEXIBLE CONDUIT COMPANY, CARCOL CABLE COMPANY, INC., WHEATLAND TUBE COMPANY, CARLON ELECTRICAL PRODUCTS, P.W. WHERE BOWERS CONCRETE BLOCK BOXES ARE APPROVED ALL NEW FIXTURES SHALL BE SECURELY ANCHORED TO PREVENT ANY PIPE, CANTEX OR APPROVED EQUAL. ALL SPECIAL OUTLETS SHALL BE AS HEREINAFTER SPECIFIED OR AS CONTINUOUS RUNS OF FIXTURES SHALL BE INSTALLED STRAIGHT AND THE FANEL BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SET UP BY THE UNDERWRITERS' LABORATORIES, INC., AND AS MANUFACTURED BY SQUARE "D' COMPRAY OR APPROVED EQUIAL, AND EACH SHALL CONTAIN THE NUMBER AND TYPE OF CIRCUIT BREAKERS AS INDICATED ON THE DRAWINGS. GALVANIZED INTERMEDIATE METALLIC CONDUIT (IMC) - MAY BE USED IN INDOOR LOCATIONS NOT IN DIRECT CONTACT WITH EARTH. GALVANIZED ELECTRICAL METALLIC TUBING (EMT) - MAY BE USED IN INDOOR DRY LOCATIONS IN WHICH IT IS: . NOT SUBJECT TO PHYSICAL DAMAGE WHEN SHOWN ON THE DRAWINGS. PANEL BOARDS SHALL BE PROVIDED U.L. LISTED. DISCONNECTS SHALL HAVE AN EXTERNAL I HANDLE, LOCKABLE IN THE OPEN OR CLOSED POSITION NOT IN DIRECT CONTACT WITH EARTH. WITH AN INTEGRAL MAIN CIRCUIT BREAKER COMPLYING WITH NOT IN CONCRETE SLABS OVERCURRENT DEVICE SECTION OF THIS SPECIFICATION, SIZED AS INDICATED ON THE DRAWINGS. NOT IN HAZARDOUS AREAS.
 ON ROOF OR WALK COVER WHEN SPECIFICALLY SHOWN ON PROVIDE DISCONNECTS FOR ALL MOTORS IF NOT PROVIDED BY OTHERS. NON-METALLIC RIGID CONDUIT SHALL BE PVC SCHEDULE 40 AND MAY THE PANEL BOARDS SHALL BE EQUIPPED WITH HINGED DOORS, FLAT FRONT, TYPEWRITTEN CIRCUIT DIRECTORIES. ALL FINISH IN OFFICES, DISCONNECTS SHALL BE HEAVY DUTY RATED. OPERATING HANDLE SHALL BE LOCKABLE IN OPEN OR CLOSED POSITION FROM: I TERWIN I THE CIRCUIT DIRECTORIES. ALL INITISH IN OTTILES, CORTIDORS OR AREAS SUBJECT TO PUBLIC VIEW SHALL BE FRIME COAT FOR FINISH COAT BY PAINTER. IN STORAGE ROOMS, EQUIPMENT ROOMS, ETC., FINISH SHALL BE STANDARD FACTORY GRAY HAMMERTONE. IN EXTERIOR LOCATIONS, PROVIDE A NEMA 3R RATED ENCLOSURE, INISHS SHALL BE STANDARD FACTORY GRAY. MJB Engineering FLEXIBLE STEEL CONDUIT MAY BE USED IN DRY LOCATIONS FOR FINAL CONNECTIONS TO: MERTONE. PROVIDE LOCK ON ALL PANELS. KEY AS DIRECTED BY A CONCEALED CONDUIT SYSTEM SHALL BE INSTALLED FOR ALL INTERIOR WIRING INCLUDING CONTROLS. CONDUIT SHALL BE RUN CONTINUOUS BETWEEN OUTLETS, ETC., AND WITH THE MINIMUM NUMBER OF BENDS. Office: (559) 281-1675 Fax: (559) 591-026 SEVEN COPIES OF DETAILED CONSTRUCTION DRAWINGS FOR THE PANEL BOARDS AND TERMINAL CABINETS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE THEIR CONSTRUCTION IS STARTED. · MOTORS, TRANSFORMERS AND OTHER MECHANICAL EQUIPMENT. FLEXIBLE ALUMINUM CONDUIT MAY BE USED IN WALLS OR IN WHERE UNDERGROUND CONDUIT CANNOT BE RUN BELOW BUILDING MAIN PROTECTIVE DEVICE SHALL BE CIRCUIT BREAKER WITH INTERRUPTING RATING, FRAME AND TRIP RATINGS AS SHOWN ON THE DRAWINGS. GROUND FAULT PROTECTION SHALL BE PROVIDED WHERE INDICATED. ATTICS TO FACILITATE WIRING IN TIGHT LOCATIONS, WHEN FOOTINGS THE CONTRACTOR SHALL PROVIDE PVC-80 SLEEVES **REVISIONS** THROUGH THE FOOTINGS (CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL SLEEVE SIZES AND LOCATIONS WITH THE STRUCTURAL ENGINEER BEFORE INSTALLATION). ev: Date: Description: ALL CONDUIT RISERS THROUGH SLAB SHALL BE RIGID STEEL OR IMC
(FACTORY WRAPPED WITH PVC TAPE OR WITH FACTORY APPLIED PVC
COATING) AND SHALL EXTEND A MINIMUM OF FOUR INCHES (4") ABOVE II/I8/2024 PLAN REVIEW PROTECTION BY HAVING INVERSE TIME AND INSTANTANEOUS TRIPPING CHARACTERISTICS, AND WHERE APPLICABLE, BE CURRENT LIMITING. SHALL BE THREADED TYPE ONLY FOR RIGID AND INTERMEDIATE STEEL CIRCUIT BREAKERS SHALL BE OPERATED BY A TOGGLE-TYPE HANDLE AMD SHALL HAVE A GUICK-MADE, QUICK-BREAK OVER-CENTER SHAME SHALL HAVE A GUICK-MADE, QUICK-BREAK OVER-CENTER SHAME SHAME SHAME SHAME SHALL BE CLEARLY INDICATED AUTOMATIC TRIPPING OF THE BREAKER SHALL BE CLEARLY INDICATED BY HANDLE POSITION. CONTACTS SHALL BE ALCOMEISHED BY MEANS OF ALL FOR ELECTRICAL METALLIC TUBING (EMT), FITTINGS SHALL BE SET-SCREW WITH STEEL HOUSING OR COMPRESSION TYPE FOR SIZES I/2" THROUGH I", IN DRY LOCATIONS. REMOVED FROM THE PREMISES UPON NOTICE. **NEW PARKING** . COMPRESSION TYPE FOR SIZES LARGER THAN I' OR IN WET **FACILITY** CORNER OF IOTH ST. \$ THE JOINTS IN ALL CONDUITS INSTALLED UNDER CONCRETE SLABS ON . FITTINGS SHALL BE PLYC TYPE. LISE PLYC ADAPTERS AT ALL BOYES. HOWARD AVE. ALL CIRCUIT BREAKERS LOCATED IN SEPARATE ENCLOSURES, WHETHER NEMA I OR NEMA 3R RATED, SHALL INCLUDE A HANDLE PADLOCK THE GROUND, OR UNDERGROUND, OR EXPOSED TO THE WEATHER. SHALL BE MADE LIQUID AND GAS-TIGHT. ALL PVC COMPONENTS, (CONDUITS, FITTINGS, CEMENT) SHALL BE OF SAME MANUFACTURER. ALL UNDERGROUND CONDUIT OUTSIDE OF THE BUILDINGS SHALL BE BURIED TO A DEPTH OF NOT LESS THAN 24" BELOW FINISH GRADE. UTILITY SERVICES SHALL COMPLY WITH UTILITY COMPANY 3087 I2TH STREET FLEXIBLE METALLIC CONDUITS: COMPRESSION TYPE. RIVERSIDE, CA 92522 LIQUID-TIGHT FLEXIBLE METALLIC CONDUITS: LIQUID-TIGHT, COMPRESSION TYPE. ALL CIRCUIT BREAKERS IN MAIN SWITCHBOARD, METER/MAIN OR INTERRUPTING CAPACITY EXCEEDING THE MAXIMUM AVAILABLE AT INSTALLED IN A COMMON TRENCH SHALL BE SEPARATED HORIZONTALLY BY AT LEAST FOUR INCHES (4"). INTERRIPTING CAPACITY EXCEEDING THE MAXIMUM AVAILABLE AT SERVICE TRANSFORMER. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FAULT CURRENT INFORMATION FROM SERVING POWER COMPANY PRIOR TO FABRICATION OF MAIN SWITCHDOARD. SUBMIT LETTER OF VERIFICATION OF AVAILABLE FAULT CURRENT WITH MAIN SWITCHDOARD SUBMITTIALS. USE OF THE FOLLOWING IS PROHIBITED: 3-27-2025 CRIMP-ON, TAP-ON, INDENTER TYPE FITTINGS.
 SPRAY (AEROSOL) PVC CEMENT.
 ENT CONDUIT AND FITTINGS. PERMIT ALL CIRCUIT BREAKERS, 100 AMPS OR MORE, SHALL BE TESTED BY AN INDEPENDENT TESTING FIRM IN ACCORDANCE WITH NETA SPECIFICATIONS AND A REPORT SUBMITTED TO THE ARCHITECT. THE ELECTRICAL CONDUIT RUNS INSTALLED IN A COMMON TRENCH WITH OTHER UTILITY LINES SHALL BE SEPARATED HORIZONTALLY FROM SUCH LINES BY AT LEAST TWELVE INCHES (12"). PULL BOXES SHALL MEET ALL CODE REQUIREMENTS AS TO SIZE FOR CONDUITS TERMINATING THEREIN AND TO THICKNESS OF MATERIAL USED IN PABRICATION. CONDUITS ENDING AT THE MOTORS SHALL BE CARRIED AS CLOSE AS POSSIBLE TO THE TERMINAL BLOCKS MAKING ALLOWANCE FOR THE MOVEMENT OF THE MOTORS WHEN THEY ARE EQUIPPED WITH SLIDE RAILS. THE CONNECTION BETWEEN THE CONDUIT TERMINALS ON TH FARRICATED SHEET STEEL PLILL BOYES SHALL BE INSTALLED ONLY IN FABRICATED SHEET STEEL PULL BOXES SHALL BE INSTALLED ONLY IN DRY, PROTECTED LOCATIONS AND SHALL BE INVENISHED WITH KNOCKOUTS AND REMOVABLE SCREW COVER. BOX SHALL BE FINISHED WITH ONE COAT OF ZINC CHROMATE AND A COAT OF PRIMER SEALER AND WHERE EXPOSED TO PUBLIC VIEW SHALL BE PAINTED TO MARCH THE SURREQUINING SURFACE. MOTOR AND THE CONDUIT SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE CONDUIT USING THE PROPER FITTINGS. **ELECTRICAL** FURNISH AND INSTALL 20A, 125 VOLT, 3 WIRE GROUNDING TYPE DUPLEX RECEPTACLES AT ALL RECEPTACLE OUTLETS AS INDICATED ON

WHERE CONDUITS ARE RUN EXPOSED. THE SAME SHALL BE INSTALLED

**SPECIFICATIONS** 

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DRAWINGS, SPECIFICATION GRADE LEVITON, BRYANT, PASS AND SEYMOUR, OR APPROVED EQUAL.

RECEPTACLES AS SPECIFIED HEREIN.

ALL RECEPTACLE PLATES SHALL BE (STAINLESS STEEL) SMOOTH LINE NYLON SAME COLOR AS DEVICES. PROVIDE OUTLET BOXES FOR