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| <div>BRANCH CIRCUIT WIRING</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">IN GENERAL ONLY CIRCUIT NUMBERS HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS AND WIRING.SHOW ALL RACEWAYS AND WIRING ON AS-BUILT DRAWINGS.GENERAL<ol style="list-style-type: none">MINIMUM RACEWAY SIZE SHALL BE 1/2"NO MORE THAN 7#12 AWG CONDUCTORS SHALL BE INSTALLED IN A RACEWAY.HOMERUNS GREATER THAN 75 FEET TO THE FIRST DEVICE SHALL BE NO. 10 AWG MINIMUM.LIGHTING, POWER AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY.PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.LIGHTING<ol style="list-style-type: none">PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING AND SWITCHING DUTY AS SHOWN ON THE DRAWINGS.PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.POWER<ol style="list-style-type: none">PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING SHOWN.FOR OTHER THAN 15 OR 20 AMP SINGLE PHASE RECEPTACLE BRANCH CIRCUITS PROVIDE A DEDICATED HOMERUN TO THE PANEL.FOR 30 AMP BRANCH CIRCUITS PROVIDE #10 AWG CONDUCTORS.FOR 40 AMP AND LARGER BRANCH CIRCUITS PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE DRAWINGS.PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.MECHANICAL EQUIPMENT: PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE MECHANICAL EQUIPMENT COORDINATION SCHEDULE</div> | | <div>DEMOLITION PLANS</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DEMOLITION PLAN DRAWINGS</p><ol style="list-style-type: none">THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF CONSTRUCTION.REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.FOR EXISTING DEVICES TO BE DEMOLISHED, REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE, U.O.N.WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CONDUITS.ALL ABANDONED SURFACE MOUNTED BOXES WILL BE FILLED IN TO MATCH EXISTING WALLS.REFER TO ARCHITECTURAL DEMOLITION PLAN FOR EXISTING BUILDING LAY OUT.ALL EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR REMOVED FROM SITE AS DIRECTED.EXACT LOCATION OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMMODATE NEW INSTALLATION.EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOWN CONDITIONS AND ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK THROUGH THEM WITH ASSISTANCE FROM THE OWNER AND ELECTRICAL ENGINEER.ALL ELECTRICAL EQUIPMENT SHALL BE DE-ENERGIZED PRIOR TO COMMENCING ANY DEMOLITION WORK.FOLLOW ALL LOCKOUT/TAGOUT PROCEDURES PER NFPA 70E.DEMOLISH ELECTRICAL CIRCUITS AS NECESSARY TO ACCOMMODATE RENOVATION WORK. REMOVE ALL ELECTRICAL DEVICES (DISCONNECTS, STARTERS, WIRING, CONDUIT, ETC.) ASSOCIATED WITH EQUIPMENT REMOVED BY OTHERS. EXISTING CIRCUITS SERVING LIGHTING FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED TO THE FULLEST EXTENT POSSIBLE AND SHALL SERVE THE NEW LAYOUT FOR THAT AREA. PROVIDE CIRCUIT MODIFICATIONS INDICATED OR AS OTHERWISE REQUIRED TO MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.ALL EXISTING DEVICES SHOWN ARE BASED ON ENGINEER'S FIELD OBSERVATION ONLY. ALL DEVICES MAY NOT HAVE BEEN ABLE TO BE OBSERVED. VERIFY AND REMOVE ALL HIDDEN DEVICES AS REQUIRED.REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING WALLS, EQUIPMENT AND FURNITURE TO BE DEMOLISHED. ALL ELECTRICAL DEVICES, ASSOCIATED CONDUITS AND WIRES ON THESE WALLS SHALL BE DISCONNECTED AND REMOVED. IF DEVICES SHARING SAME CIRCUITS WITH DEMOLISHED DEVICES ON THEIR DOWNSTREAM SIDE ARE REQUIRED TO REMAIN ENERGIZED SUCH AS AT OCCUPIED AREAS, CONTRACTOR SHALL EXTEND CONDUITS AND WIRES FROM THESE REMAINING DEVICES BACK TO ORIGINAL BRANCH CIRCUITS.EXISTING CONDUITS CAN BE REUSED IF POSSIBLE. PULL IN ALL NEW WIRE.</div> | | <div>ONE-LINE DIAGRAM</div> <div><ol style="list-style-type: none">PROVIDE PULL BOXES AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE (CEC).SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.ALL TRANSFORMERS ARE 480V 3 PHASE 3 WIRE PRIMARY: 208Y/120V 3 PHASE, 4 WIRE SECONDARY, NEMA TP-1 RATED, U.O.N.ALL TRANSFORMERS SHALL BE K-4 RATED, U.O.N.NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE (CEC).</div> | | <div>GENERAL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED AND READY FOR OPERATION, UNLESS SPECIFICALLY NOTED OTHERWISE AND WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC. IS SHOWN ON THE PLANS. ELECTRICAL SUBCONTRACTOR SHALL BE ON THE PREMISES OPENING DAY.LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS AND CASEWORK. SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN. WHERE OUTLET GROUPINGS OCCUR, MOUNT BOXES AS CLOSE TO EACH OTHER AS PRACTICAL. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMUM LATERAL SEPARATION OF 12" OR (1) STUD SPACE. CONNECT OUTLETS WITH FLEX STEEL CONDUIT. ON FIRE WALLS SEPARATION MUST BE 24".SEAL ALL PENETRATIONS IN RATED WALLS, FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.PROVIDE A 220 LB NYLON JET PULL STRING IN ALL EMPTY RACEWAYS.PROVIDE EMT RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS.ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS. NO STRUCTURAL MEMBER SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.ALL CONDUIT BELOW CONCRETE SLABS SHALL BE RIGID, HOT-DIPPED GALVANIZED STEEL CONDUIT OR RIGID, CODE APPROVED PVC.THE INSTALLATION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC), THE AUTHORITY HAVING JURISDICTION, AND UTILITY REQUIREMENTS.THE CONTRACTOR SHALL ENSURE THAT THE ENTIRE ELECTRICAL SYSTEM FOR THIS BUILDING IS GROUNDED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ARTICLE 250 OF THE CALIFORNIA ELECTRICAL CODE (CEC).WORKING SPACE ABOUT ELECTRICAL PANELS, SWITCHGEAR, ETC SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 110.26.ALL MULTI-WIRE CIRCUITS SHALL BE WIRED SO DEVICES MAY BE REMOVED WITHOUT BREAKING CONTINUITY OF NEUTRAL CONDUCTOR OR ELSE BE ON A COMMON TRIP BREAKER.PROVIDE ALL EXPANSION FITTINGS, PITCH POCKETS, EQUIPMENT SUPPORTS, AND ACCESS DOORS AS REQUIRED FOR ELECTRICAL WORK.PROVIDE EQUIPMENT LABELS FOR DISCONNECT SWITCHES, SWITCHBOARDS, PANELBOARDS, WIRING TROUGHS, ETC. TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. IDENTIFY THE UPSTREAM SOURCE OF THE EQUIPMENT. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED TO EXPOSE CONTRASTING INNER CORE.MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS AND COMBINATION STARTERS) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE.ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.NOT ALL LEGEND AND ABBREVIATIONS ARE NECESSARY OR REQUIRED FOR THIS DRAWING SET.WHERE A CONFLICT EXISTS WITHIN THE DOCUMENTS, THE MOST EXPENSIVE OPTION SHALL GOVERN.ELECTRICAL CONTRACTOR SHALL TOUR THE PROJECT SITE PRIOR TO BID TO ASSESS EXISTING CONDITIONS, WHICH MAY AFFECT HIS BID. LATER CLAIMS FOR WORK THAT WAS EVIDENT WILL NOT BE ALLOWED.ITEMS NOTED AS "TYPICAL" ON ANY DRAWING REFERS TO ALL DRAWINGS.NO STRUCTURAL MEMBERS SHALL BE CUT OR ALTERED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.ALL RACEWAYS WITHIN THE BUILDING SHALL BE RUN OVERHEAD U.O.N. RACEWAYS SHALL NOT BE RUN UNDER THE FLOOR SLAB UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.ALL RACEWAYS IN FINISHED SPACES SHALL BE CONCEALED.MOUNT ALL DEVICES ABOVE COUNTERS 6" ABOVE BACKSPLASH UNLESS NOTED OTHERWISE.CONDUITS GREATER THAN 2 INCHES TRADE SIZE AND ATTACH TO PANELS, CABINETS, OR OTHER EQUIPMENT SHALL BE PROVIDED WITH FLEXIBLE CONNECTIONS.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. HE/SHE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO, SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, TRANSFORMERS, GROUND FAULT PROTECTION SYSTEM, ETC. ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER OR ENGINEER.UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC.ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R AND LISTED FOR EXTERIOR ENVIRONMENTS.NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING, SEE SPECIFICATIONS, QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COST TO ROUTE CONDUIT OTHER THAN AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR.</div> | | <div>GENERAL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">WHERE THE PHRASE "EXTENDED WIRING" IS USED IT REQUIRES THE REMOVAL OF EXISTING WIRING, THE EXTENSION OF THE CONDUIT RUN AND THE PULLING IN OF NEW WIRING TO THE SPECIFIED PANEL.ALL RELOCATED EQUIPMENT TO BE FED FROM CONDUIT EXTENSION OF EXISTING CIRCUIT WHERE POSSIBLE. PULL IN NEW CONDUCTORS ON ALL BRANCH CIRCUITS FOR RELOCATED EQUIPMENT.ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES WHICH ARE KEPT IN SERVICE ARE TO BE REPLACED WITH NEW SWITCHES, OUTLETS AND PLATES.WHERE EXISTING CONDUIT IN WALLS TO BE REMOVED SERVE OUTLETS OR GROUPS OF OUTLETS THAT ARE TO REMAIN IN SERVICE. THESE CONDUITS SHALL BE RELOCATED AND WIRING TO BE PROVIDED TO MAINTAIN CONTINUITY OF SERVICE.WHERE EXISTING LIGHT FIXTURES INTERFERE WITH INSTALLATION OF NEW OR EXISTING MECHANICAL DUCT WORK, PIPING, ETC., ELECTRICAL CONTRACTOR IS TO REMOVE FIXTURES AS REQUIRED AND COORDINATE REINSTALLATION WITH MECHANICAL CONTRACTOR.EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.ALL EXPOSED ELECTRICAL CONDUIT, WIRE, DEVICES, EQUIPMENT ETC., THAT ARE TO BE ABANDONED, SHALL BE REMOVED TO THE POINT OF CONCEALMENT.ANY EXISTING OUTLET ON A WALL TO BE REMOVED SHALL HAVE CONDUITS CUT OFF BELOW FLOOR. ALL CONDUIT SHALL BE RUN CONCEALED IN NEW CONSTRUCTION. IN EXISTING MASONRY, THE WALL SHALL BE CHANNELLED TO INSTALL CONDUIT BOXES. AFTER THE CONDUIT HAS BEEN INSTALLED, THE WALL SHALL BE REFINISHED TO A SMOOTH AND UNIFORM FINISH TO MATCH ARCHITECTURAL SPECIFICATIONS.EXISTING RECEPTACLES DENOTED "EX." ARE TO REMAIN IN SERVICE AND CONTINUITY OF WIRING TO THESE DEVICES IS TO BE MAINTAINED. INSTALL NEW WIRING TO PANEL.EXISTING FIXTURES, SWITCHES AND OUTLETS ARE TO REMAIN IN SERVICE AND CONTINUITY OF SERVICE IS INTERRUPTED. CONDUIT SHALL BE EXTENDED AS REQUIRED AND NEW WIRING INSTALLED TO DESIGNATED PANEL.THE EXISTENCE, LOCATION AND USABILITY OF EXISTING DEVICE BOXES AND CONDUIT TO BE REUSED SHALL BE FIELD VERIFIED. IF A DEVICE BOX OR CONDUIT TO BE REUSED NO LONGER EXISTS OR IS UNUSABLE AN ALTERNATE METHOD SHALL BE USED TO SERVICE THE DEVICE SHOWN.EXISTING CONDUIT MAY BE REUSED IF IN GOOD CONDITION. CONTRACTOR TO VERIFY CONDITION OF CONDUIT WHERE POSSIBLE. REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK. EXACT LOCATIONS OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. 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| <div>REMODEL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">WHERE THE PHRASE "EXTENDED WIRING" IS USED IT REQUIRES THE REMOVAL OF EXISTING WIRING, THE EXTENSION OF THE CONDUIT RUN AND THE PULLING IN OF NEW WIRING TO THE SPECIFIED PANEL.ALL RELOCATED EQUIPMENT TO BE FED FROM CONDUIT EXTENSION OF EXISTING CIRCUIT WHERE POSSIBLE. PULL IN NEW CONDUCTORS ON ALL BRANCH CIRCUITS FOR RELOCATED EQUIPMENT.ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES WHICH ARE KEPT IN SERVICE ARE TO BE REPLACED WITH NEW SWITCHES, OUTLETS AND PLATES.WHERE EXISTING CONDUIT IN WALLS TO BE REMOVED SERVE OUTLETS OR GROUPS OF OUTLETS THAT ARE TO REMAIN IN SERVICE. THESE CONDUITS SHALL BE RELOCATED AND WIRING TO BE PROVIDED TO MAINTAIN CONTINUITY OF SERVICE.WHERE EXISTING LIGHT FIXTURES INTERFERE WITH INSTALLATION OF NEW OR EXISTING MECHANICAL DUCT WORK, PIPING, ETC., ELECTRICAL CONTRACTOR IS TO REMOVE FIXTURES AS REQUIRED AND COORDINATE REINSTALLATION WITH MECHANICAL CONTRACTOR.EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.ALL EXPOSED ELECTRICAL CONDUIT, WIRE, DEVICES, EQUIPMENT ETC., THAT ARE TO BE ABANDONED, SHALL BE REMOVED TO THE POINT OF CONCEALMENT.ANY EXISTING OUTLET ON A WALL TO BE REMOVED SHALL HAVE CONDUITS CUT OFF BELOW FLOOR. ALL CONDUIT SHALL BE RUN CONCEALED IN NEW CONSTRUCTION. 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REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK. EXACT LOCATIONS OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMMODATE NEW INSTALLATION.EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION, WHETHER EXISTING TO REMAIN OR BE REMOVED WITH BOTH AS-BUILT DRAWINGS AND SITE OBSERVATIONS. AS-BUILT DRAWINGS ARE INCLUDED FOR REFERENCE ONLY TO ASSIST WITH BID AND CONSTRUCTION. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOWN CONDITIONS AND ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK THROUGH THEM WITH ASSISTANCE FROM BUILDING OWNER AND ELECTRICAL ENGINEER.</div> | | <div>POWER PLANS</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER AND SYSTEMS PLAN DRAWINGS</p><ol style="list-style-type: none">CIRCUIT ALL FIRE/SMOKE DAMPERS AND SMOKE DAMPERS FROM NEAREST 120V EMERGENCY PANEL WITH 1/2"-3#12. UTILIZE SPARE 20A-1P BREAKER PROVIDED. RECORD CIRCUITING ON AS-BUILT DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR DAMPER LOCATIONS.COORDINATE LOCATIONS OF BAS CONTROL POWER WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.REFER TO MECHANICAL EQUIPMENT COORDINATION SCHEDULE FOR EQUIPMENT RATINGS AND BRANCH CIRCUIT SIZES.PROVIDE DISCONNECT SWITCH OR COMBINATION STARTER FOR EACH PIECE OF EQUIPMENT AS SHOWN ON MECHANICAL EQUIPMENT COORDINATION SCHEDULE.PRIOR TO ROUGH-IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.ALL EXTERIOR RECEPTACLES SHALL BE WP/GFI.ALL EXTERIOR DISCONNECTS/STARTERS SHALL BE NEMA 3R.ALL HOMERUNS OVER 75' SHALL BE #10 AWG MINIMUM.FEEDER ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH MECHANICAL SYSTEMS AND BUILDING STRUCTURE. PROVIDE OFFSETS AS REQUIRED.ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFI TYPE.</div> | | <div>EQUIPMENT CONNECTIONS</div> <div><ol style="list-style-type: none">VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH-IN.INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP</div> | | <div>GENERAL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED AND READY FOR OPERATION, UNLESS SPECIFICALLY NOTED OTHERWISE AND WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC. IS SHOWN ON THE PLANS. ELECTRICAL SUBCONTRACTOR SHALL BE ON THE PREMISES OPENING DAY.LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS AND CASEWORK. SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN. WHERE OUTLET GROUPINGS OCCUR, MOUNT BOXES AS CLOSE TO EACH OTHER AS PRACTICAL. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMUM LATERAL SEPARATION OF 12" OR (1) STUD SPACE. CONNECT OUTLETS WITH FLEX STEEL CONDUIT. ON FIRE WALLS SEPARATION MUST BE 24".SEAL ALL PENETRATIONS IN RATED WALLS, FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.PROVIDE A 220 LB NYLON JET PULL STRING IN ALL EMPTY RACEWAYS.PROVIDE EMT RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS.ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS. 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TO IDENTIFY EQUIPMENT OR EQUIPMENT SERVED. IDENTIFY THE UPSTREAM SOURCE OF THE EQUIPMENT. LABELS SHALL BE 1/8" THICK OF PHENOLIC MATERIAL, MACHINE ENGRAVED TO EXPOSE CONTRASTING INNER CORE.MECHANICAL EQUIPMENT POWER CONTROL DEVICES (STARTERS AND COMBINATION STARTERS) AND UNIT DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE EQUIPMENT SCHEDULE.ELECTRICAL CONTRACTOR SHALL ARRANGE ALL INSPECTIONS AND PAY ALL FEES. SUBMIT COPY OF FINAL INSPECTION REPORT TO THE OWNER.NOT ALL LEGEND AND ABBREVIATIONS ARE NECESSARY OR REQUIRED FOR THIS DRAWING SET.WHERE A CONFLICT EXISTS WITHIN THE DOCUMENTS, THE MOST EXPENSIVE OPTION SHALL GOVERN.ELECTRICAL CONTRACTOR SHALL TOUR THE PROJECT SITE PRIOR TO BID TO ASSESS EXISTING CONDITIONS, WHICH MAY AFFECT HIS BID. 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ARISES ON THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON DRAWINGS AND/OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER OR ENGINEER.UNLESS DIMENSIONED, CIRCUIT ROUTING INDICATED IS DIAGRAMMATIC.ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R AND LISTED FOR EXTERIOR ENVIRONMENTS.NO RACEWAYS SHALL BE RUN IN FLOOR SLABS.PROVIDE 2" EMT SLEEVES FOR LOW VOLTAGE WIRING RUNNING THROUGH NON-RATED WALLS, FLOORS AND CEILINGS.PROVIDE A COMPLETE DESIGN-BUILD PATHWAY SYSTEM FOR ALL SPECIAL SYSTEMS WIRING, SEE SPECIFICATIONS, QUANTITY AND SIZE OF RACEWAYS SHOWN ON SPECIAL SYSTEMS PLANS ARE THE MINIMUM TO BE PROVIDED. CONTRACTOR SHALL PROVIDE ALL RACEWAYS AS REQUIRED.COMPLY WITH THE 2022 CALIFORNIA ELECTRICAL CODE (CEC) AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COST TO ROUTE CONDUIT OTHER THAN AS SHOWN ON THE PLANS SHALL BE INCURRED BY THE CONTRACTOR.</div> | | | |
| <div>GENERAL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">WHERE THE PHRASE "EXTENDED WIRING" IS USED IT REQUIRES THE REMOVAL OF EXISTING WIRING, THE EXTENSION OF THE CONDUIT RUN AND THE PULLING IN OF NEW WIRING TO THE SPECIFIED PANEL.ALL RELOCATED EQUIPMENT TO BE FED FROM CONDUIT EXTENSION OF EXISTING CIRCUIT WHERE POSSIBLE. PULL IN NEW CONDUCTORS ON ALL BRANCH CIRCUITS FOR RELOCATED EQUIPMENT.ALL EXISTING SWITCHES AND DUPLEX RECEPTACLES WHICH ARE KEPT IN SERVICE ARE TO BE REPLACED WITH NEW SWITCHES, OUTLETS AND PLATES.WHERE EXISTING CONDUIT IN WALLS TO BE REMOVED SERVE OUTLETS OR GROUPS OF OUTLETS THAT ARE TO REMAIN IN SERVICE. THESE CONDUITS SHALL BE RELOCATED AND WIRING TO BE PROVIDED TO MAINTAIN CONTINUITY OF SERVICE.WHERE EXISTING LIGHT FIXTURES INTERFERE WITH INSTALLATION OF NEW OR EXISTING MECHANICAL DUCT WORK, PIPING, ETC., ELECTRICAL CONTRACTOR IS TO REMOVE FIXTURES AS REQUIRED AND COORDINATE REINSTALLATION WITH MECHANICAL CONTRACTOR.EXISTING HOME RUN CONDUITS IN REMODELED AREAS TO BE RETAINED WHEREVER POSSIBLE. HOME RUN CONDUITS ARE TO BE EXTENDED TO NEW FIXTURE, OUTLET OR SWITCH LOCATION AND NEW WIRING PULLED INTO PANEL.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK.ALL EXPOSED ELECTRICAL CONDUIT, WIRE, DEVICES, EQUIPMENT ETC., THAT ARE TO BE ABANDONED, SHALL BE REMOVED TO THE POINT OF CONCEALMENT.ANY EXISTING OUTLET ON A WALL TO BE REMOVED SHALL HAVE CONDUITS CUT OFF BELOW FLOOR. ALL CONDUIT SHALL BE RUN CONCEALED IN NEW CONSTRUCTION. IN EXISTING MASONRY, THE WALL SHALL BE CHANNELLED TO INSTALL CONDUIT BOXES. AFTER THE CONDUIT HAS BEEN INSTALLED, THE WALL SHALL BE REFINISHED TO A SMOOTH AND UNIFORM FINISH TO MATCH ARCHITECTURAL SPECIFICATIONS.EXISTING RECEPTACLES DENOTED "EX." ARE TO REMAIN IN SERVICE AND CONTINUITY OF WIRING TO THESE DEVICES IS TO BE MAINTAINED. INSTALL NEW WIRING TO PANEL.EXISTING FIXTURES, SWITCHES AND OUTLETS ARE TO REMAIN IN SERVICE AND CONTINUITY OF SERVICE IS INTERRUPTED. CONDUIT SHALL BE EXTENDED AS REQUIRED AND NEW WIRING INSTALLED TO DESIGNATED PANEL.THE EXISTENCE, LOCATION AND USABILITY OF EXISTING DEVICE BOXES AND CONDUIT TO BE REUSED SHALL BE FIELD VERIFIED. IF A DEVICE BOX OR CONDUIT TO BE REUSED NO LONGER EXISTS OR IS UNUSABLE AN ALTERNATE METHOD SHALL BE USED TO SERVICE THE DEVICE SHOWN.EXISTING CONDUIT MAY BE REUSED IF IN GOOD CONDITION. CONTRACTOR TO VERIFY CONDITION OF CONDUIT WHERE POSSIBLE. REUSED CONDUIT SHALL HAVE A SWAB PULLED PRIOR TO NEW CONDUCTORS BEING INSTALLED.ELECTRICAL CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS AND FLOORS, WHICH ARE TO REMAIN AS REQUIRED BY ANY ALTERATIONS, REMOVAL AND/OR INSTALLATION OF ADDITIONAL EQUIPMENT INCLUDED IN ELECTRICAL WORK. EXACT LOCATIONS OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS THAT MAY RESULT IN A CONFLICT WITH NEW EQUIPMENT AND REVISE EXISTING DEVICE TO ACCOMMODATE NEW INSTALLATION.EVERY EFFORT HAS BEEN MADE TO COORDINATE EXISTING ELECTRICAL INFORMATION, WHETHER EXISTING TO REMAIN OR BE REMOVED WITH BOTH AS-BUILT DRAWINGS AND SITE OBSERVATIONS. AS-BUILT DRAWINGS ARE INCLUDED FOR REFERENCE ONLY TO ASSIST WITH BID AND CONSTRUCTION. HOWEVER, DISCREPANCIES MAY EXIST BETWEEN ACTUAL AND SHOWN CONDITIONS AND ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHOULD EXPECT MINOR DEVIATIONS TO OCCUR AND IS EXPECTED TO WORK THROUGH THEM WITH ASSISTANCE FROM BUILDING OWNER AND ELECTRICAL ENGINEER.</div> | | <div>DEMOLITION PLANS</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DEMOLITION PLAN DRAWINGS</p><ol style="list-style-type: none">THE CONTRACT DOCUMENTS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. THE CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS AND ESTABLISH THE EXTENT OF DEMOLITION PRIOR TO BID.WHERE "ALL ELECTRICAL SYSTEMS" ARE NOTED TO BE REMOVED FROM AN AREA REMOVE ALL FIXTURES, DEVICES, EQUIPMENT, RACEWAYS, AND WIRING UNLESS OTHERWISE NOTED.REMOVE ALL TEMPORARY WORK INSTALLED DURING THE COURSE OF CONSTRUCTION.REMOVE CONNECTIONS TO MECHANICAL EQUIPMENT AS SHOWN ON THE MECHANICAL DEMOLITION PLANS.FOR EXISTING DEVICES TO BE DEMOLISHED, REMOVE DEVICE, RACEWAY AND WIRING BACK TO SOURCE, U.O.N.WHERE EXISTING RECEPTACLES ARE REMOVED, MAINTAIN CONTINUITY TO RECEPTACLES ON THE SAME CIRCUIT TO REMAIN.WHERE EXISTING LOW VOLTAGE DEVICES ARE REMOVED, MAINTAIN CONTINUITY TO OTHER DEVICES.ALL CONDUCTORS WILL BE REMOVED FROM ABANDONED CONDUITS.ALL ABANDONED SURFACE MOUNTED BOXES WILL BE FILLED IN TO MATCH EXISTING WALLS.REFER TO ARCHITECTURAL DEMOLITION PLAN FOR EXISTING BUILDING LAY OUT.ALL EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR REMOVED FROM SITE AS DIRECTED.EXACT LOCATION OF EXISTING EQUIPMENT MAY VARY FROM LOCATIONS AS INDICATED ON PLANS. 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PROVIDE CIRCUIT MODIFICATIONS INDICATED OR AS OTHERWISE REQUIRED TO MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT REMAIN.ALL EXISTING DEVICES SHOWN ARE BASED ON ENGINEER'S FIELD OBSERVATION ONLY. ALL DEVICES MAY NOT HAVE BEEN ABLE TO BE OBSERVED. VERIFY AND REMOVE ALL HIDDEN DEVICES AS REQUIRED.REFER TO ARCHITECTURAL DEMOLITION PLANS FOR EXISTING WALLS, EQUIPMENT AND FURNITURE TO BE DEMOLISHED. ALL ELECTRICAL DEVICES, ASSOCIATED CONDUITS AND WIRES ON THESE WALLS SHALL BE DISCONNECTED AND REMOVED. IF DEVICES SHARING SAME CIRCUITS WITH DEMOLISHED DEVICES ON THEIR DOWNSTREAM SIDE ARE REQUIRED TO REMAIN ENERGIZED SUCH AS AT OCCUPIED AREAS, CONTRACTOR SHALL EXTEND CONDUITS AND WIRES FROM THESE REMAINING DEVICES BACK TO ORIGINAL BRANCH CIRCUITS.EXISTING CONDUITS CAN BE REUSED IF POSSIBLE. PULL IN ALL NEW WIRE.</div> | | <div>ONE-LINE DIAGRAM</div> <div><ol style="list-style-type: none">PROVIDE PULL BOXES AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE (CEC).SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.ALL TRANSFORMERS ARE 480V 3 PHASE 3 WIRE PRIMARY: 208Y/120V 3 PHASE, 4 WIRE SECONDARY, NEMA TP-1 RATED, U.O.N.ALL TRANSFORMERS SHALL BE K-4 RATED, U.O.N.NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE (CEC).</div> | | <div>GENERAL NOTES</div> <div><p>THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS</p><ol style="list-style-type: none">REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS.ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. IT IS THE INTENT OF THE ELECTRICAL CONTRACT DOCUMENTS THAT ALL ELECTRICAL SYSTEMS ARE INSTALLED COMPLETE, TESTED AND READY FOR OPERATION, UNLESS SPECIFICALLY NOTED OTHERWISE AND WHETHER OR NOT EVERY ITEM OF EQUIPMENT, DEVICE, BOX, ETC. IS SHOWN ON THE PLANS. ELECTRICAL SUBCONTRACTOR SHALL BE ON THE PREMISES OPENING DAY.LOCATIONS OF ALL DEVICES ARE SHOWN SCHEMATICALLY. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, ELEVATIONS AND CASEWORK. SUPPLIER'S SHOP DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN. WHERE OUTLET GROUPINGS OCCUR, MOUNT BOXES AS CLOSE TO EACH OTHER AS PRACTICAL. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON THE SAME WALL, BUT WILL HAVE MINIMUM LATERAL SEPARATION OF 12" OR (1) STUD SPACE. CONNECT OUTLETS WITH FLEX STEEL CONDUIT. ON FIRE WALLS SEPARATION MUST BE 24".SEAL ALL PENETRATIONS IN RATED WALLS, FLOORS AND CEILINGS WITH A UL APPROVED FIRE STOP SYSTEM.PROVIDE A 220 LB NYLON JET PULL STRING IN ALL EMPTY RACEWAYS.PROVIDE EMT RACEWAY FOR WIRING RUNNING THROUGH WALLS, FLOOR, AND CEILINGS.ALL CONDUIT AND RACEWAY SHALL BE RUN CONCEALED UNLESS NOTED OTHERWISE AND SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS, WALLS, CEILINGS, OR FLOORS. 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