



ARCHITECT'S STAMP

CONSULTANT

PROJECT NAME
COUNTY FIRE STATION NO. 17 REMODEL

PROJECT ADDRESS
 6472-6
**6430 PONY EXPRESS TRAIL
 POLLOCK PINES, CA 95726**

SUSPENDED CEILING NOTES, DETAILS

NO	DATE	REVISION
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DRAWN BY: JK
 CHECKED BY: JK

DATE: 07/28/2020
 SCALE: NOTED

PROJECT NUMBER: 202103
 DRAWING NUMBER:

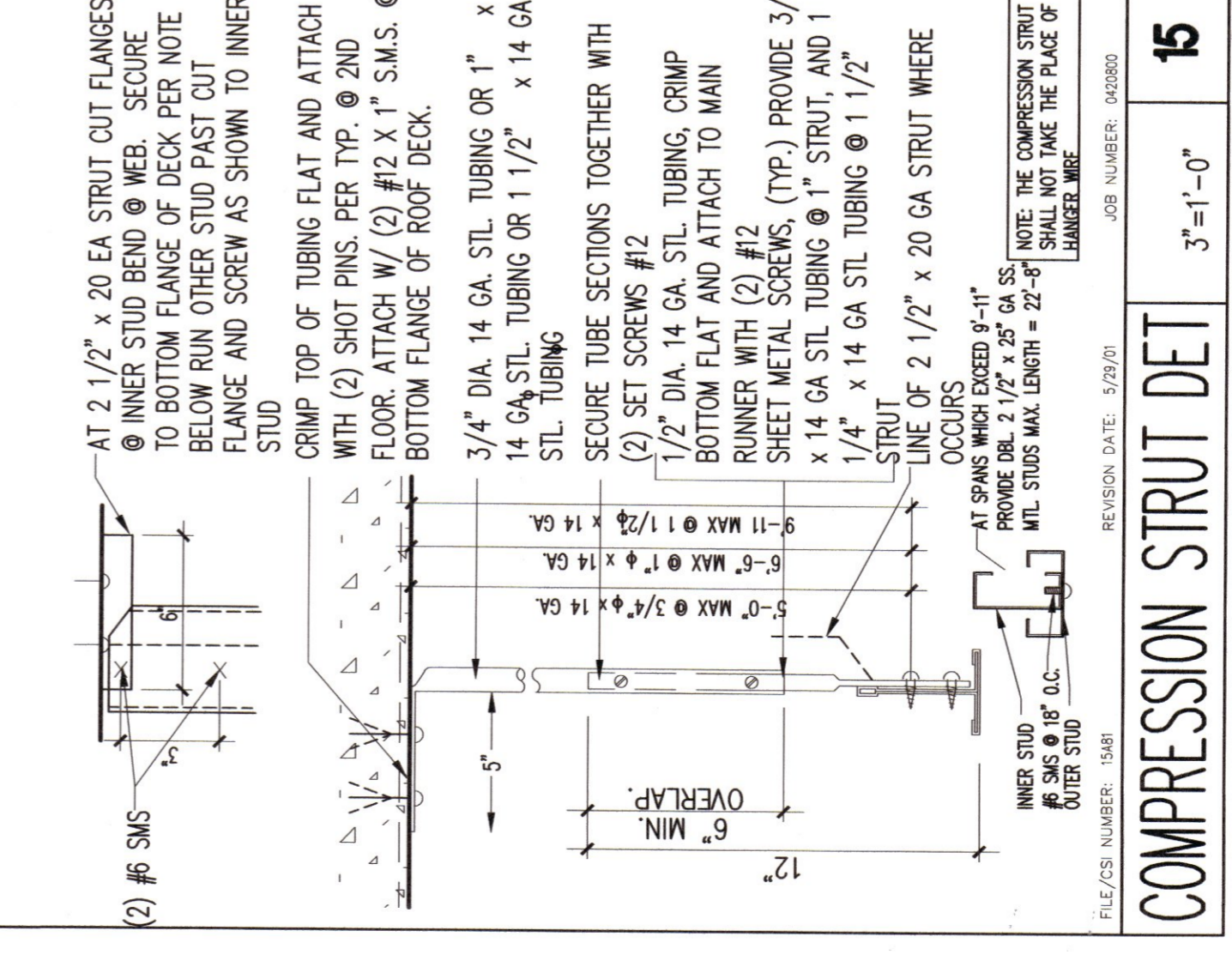
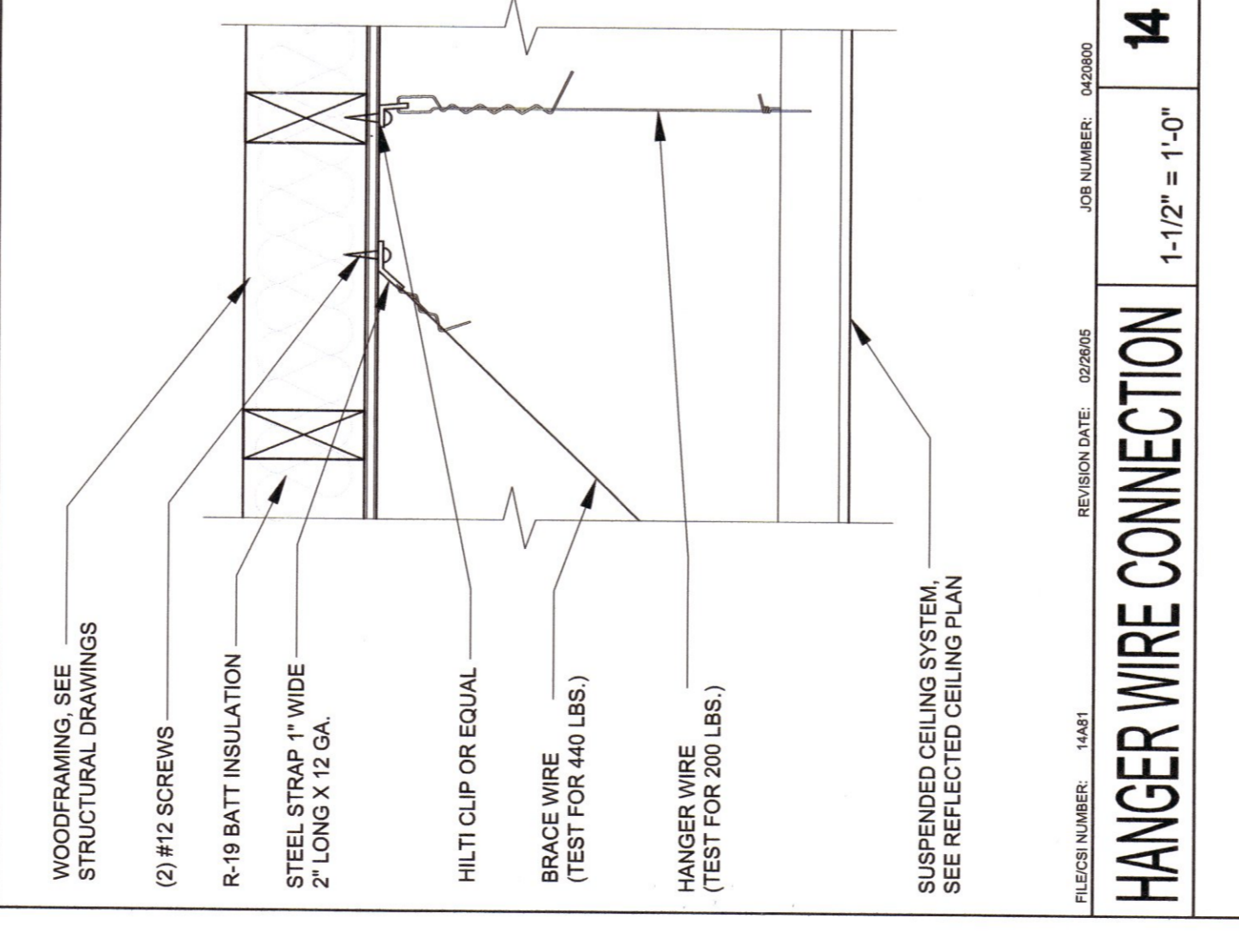
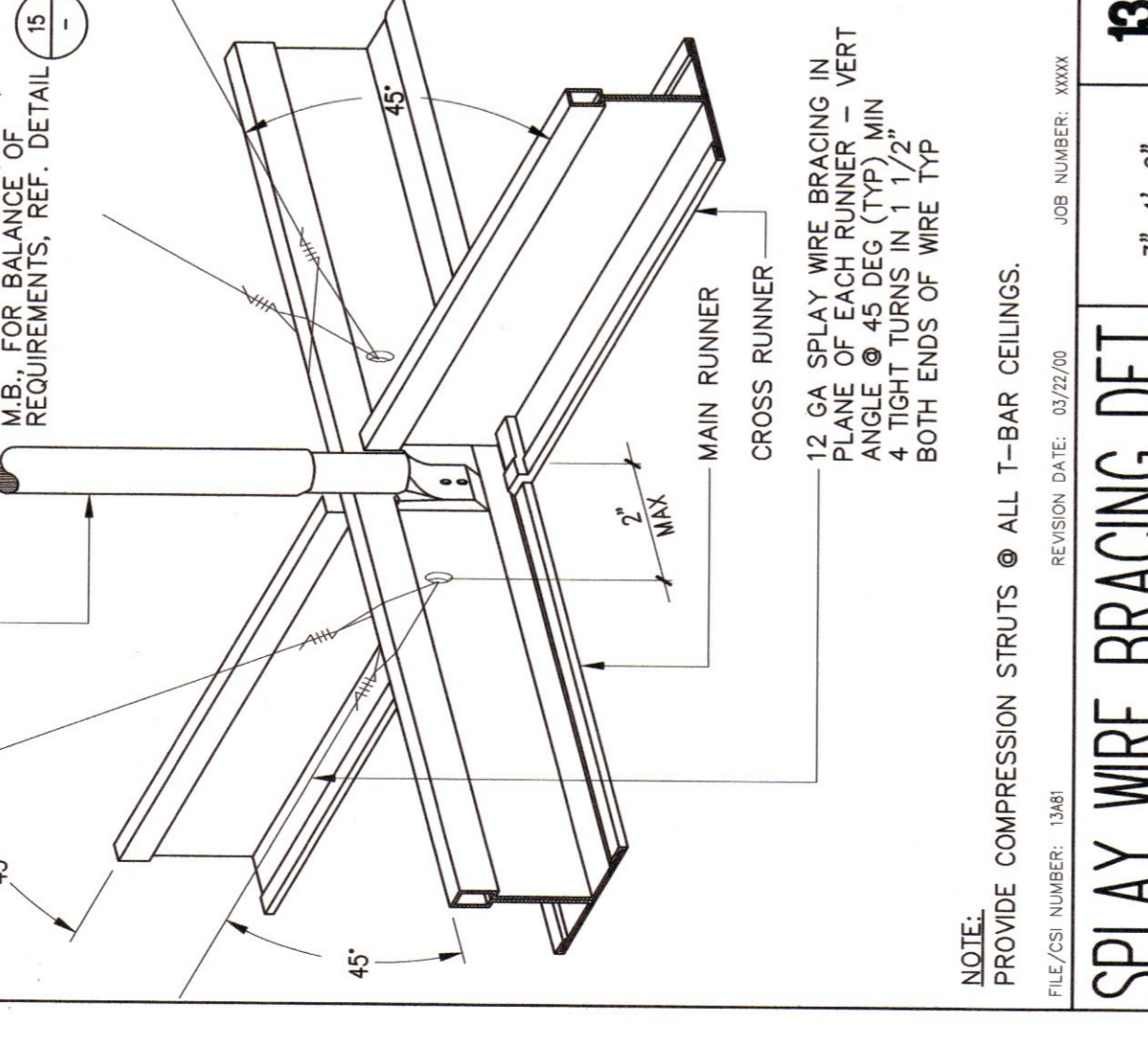
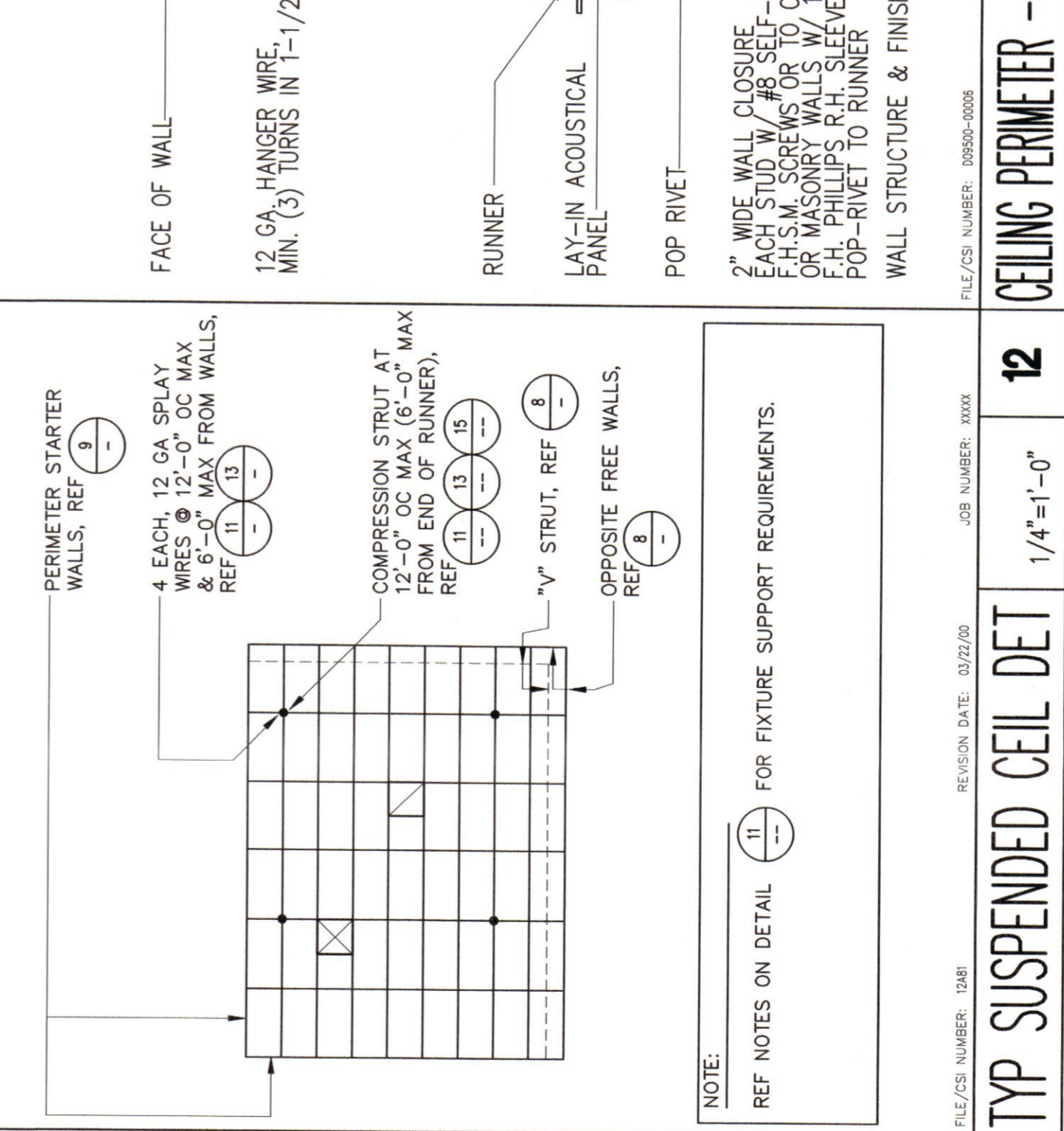
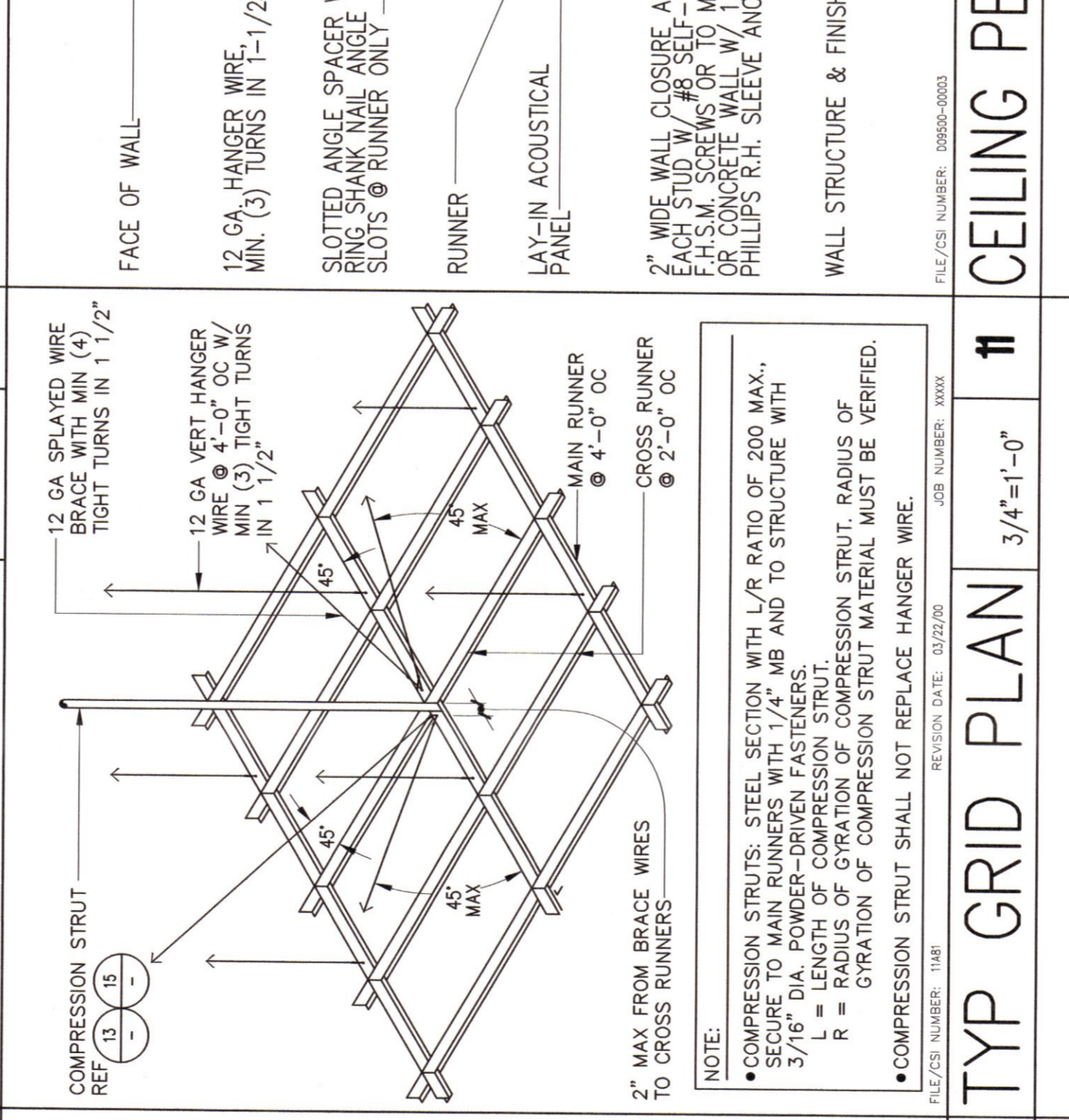
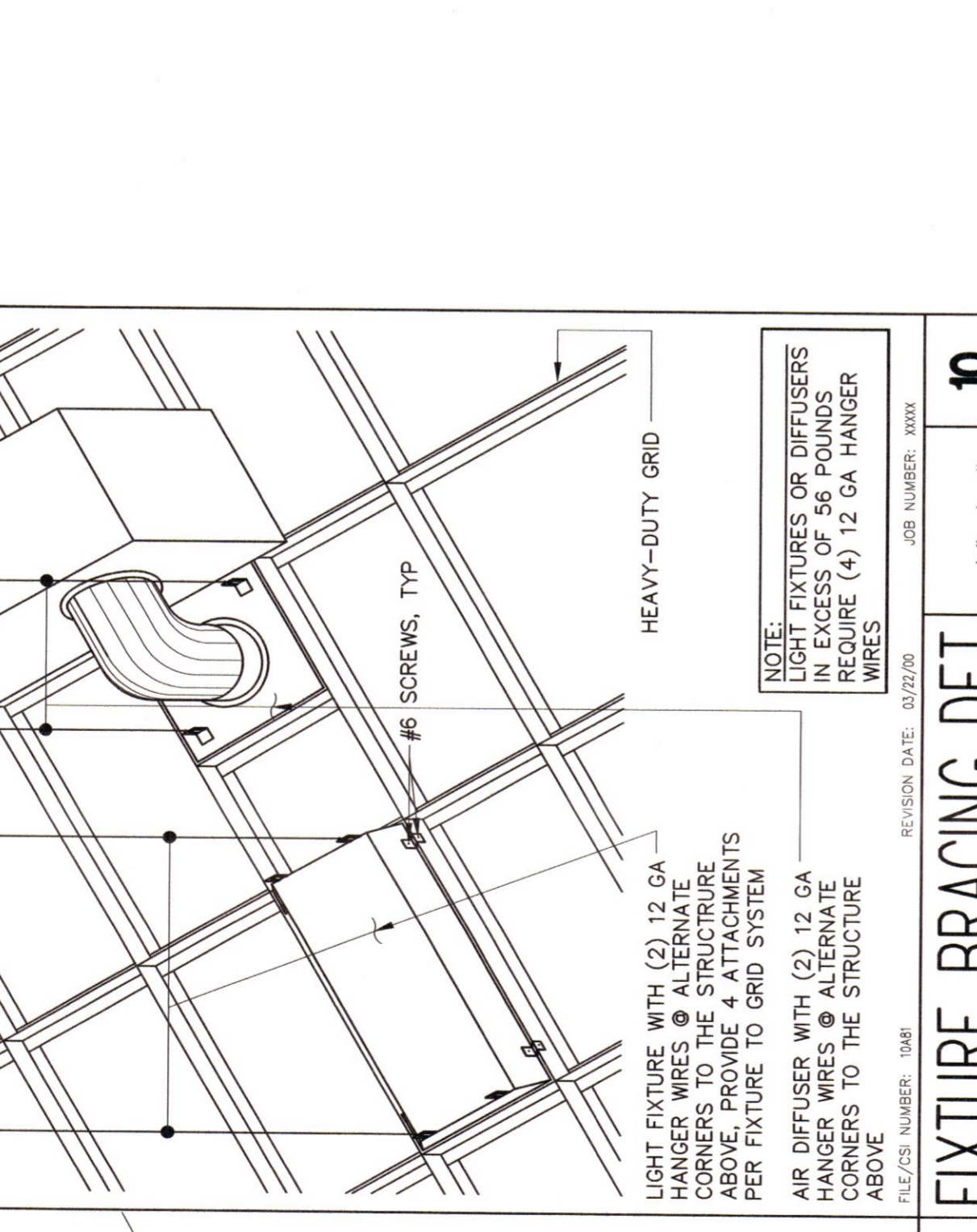
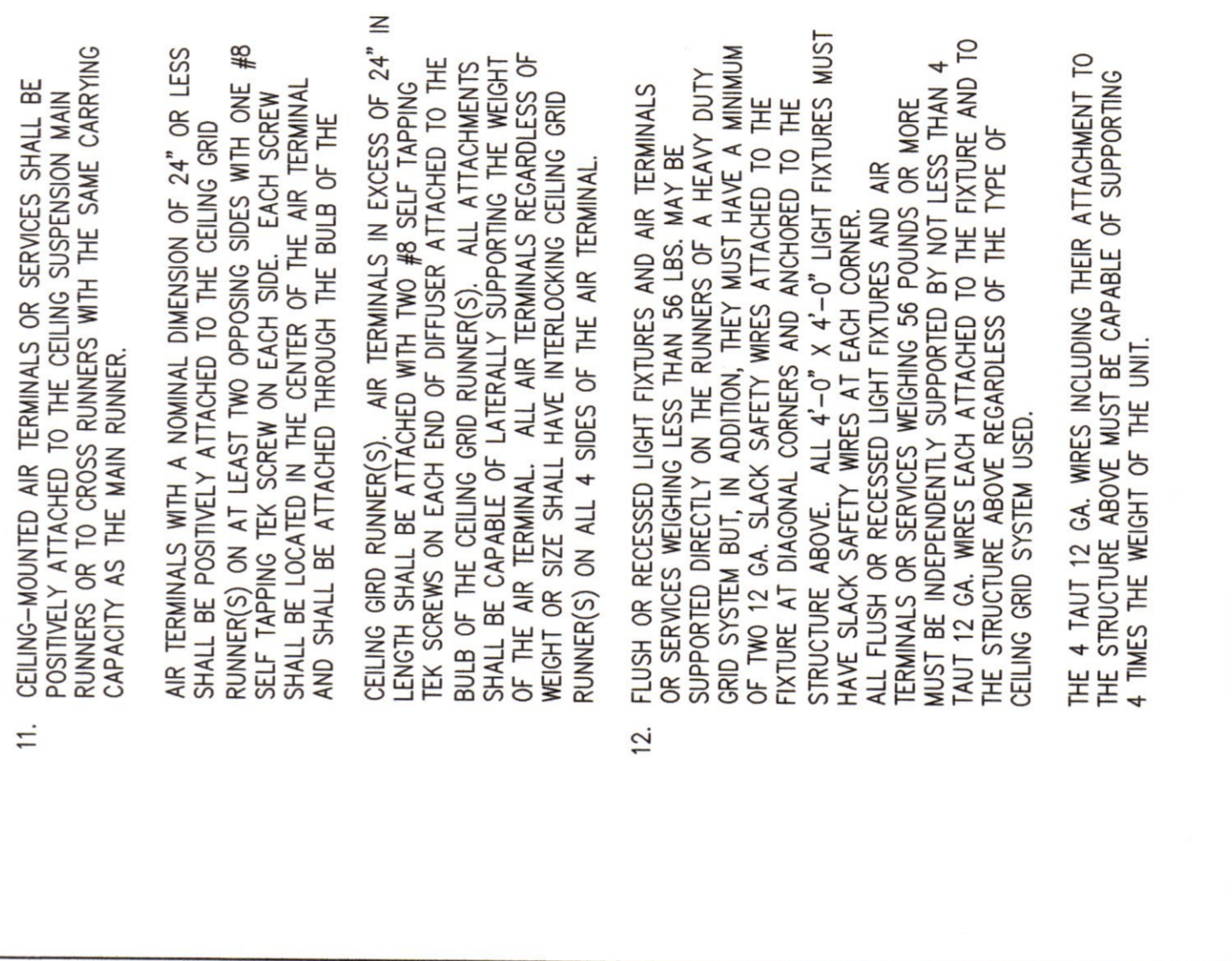
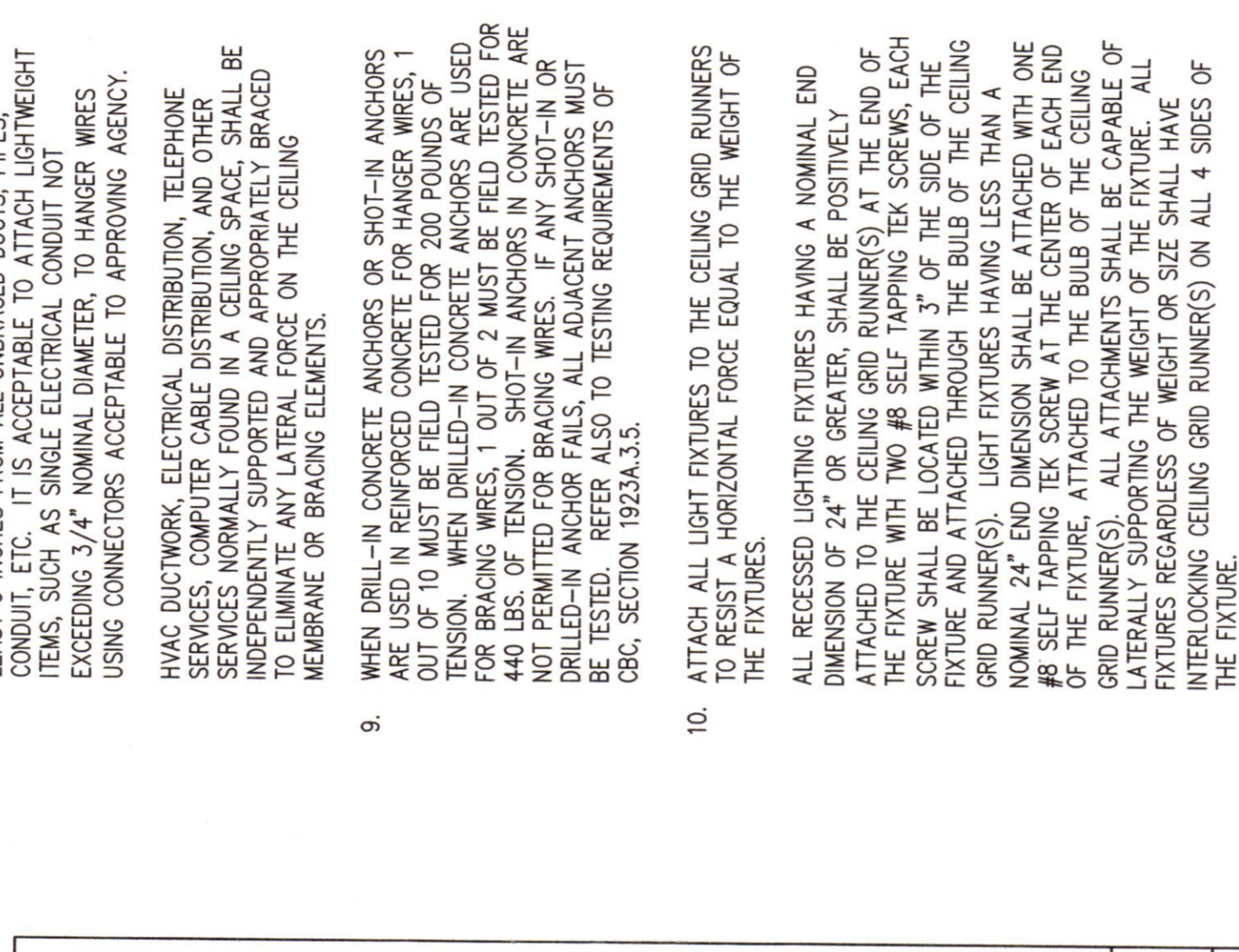
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METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILINGS

- PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR 12 GA. SPLATED BRACING WIRES ORIENTED 90° FROM EACH OTHER AT NOT MORE THAN 12'-0" X 12'-0" ON CENTER.
- PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN 6'-0" FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS.
- THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPICES IN BRACING WIRES ARE NOT TO BE PERMITTED.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
- FASTEN HANGER WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1'-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
 NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1'-1/2" REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.
- SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ACCESSIBLE UNBRACED DUCTS, PIPES, CONDUITS, ETC., TO PREVENT SHORTS TO ATTACH LIGHTWEIGHT TEAMS, SUCH AS SINGLE ELECTRICAL CONDUIT, NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO APPROVING AGENCY.
- HVAC DUCTWORK, ELECTRICAL DISTRIBUTION, TELEPHONE SERVICES, COMPUTER CABLE DISTRIBUTION, AND OTHER SERVICES NORMALLY FOUND IN A CEILING SPACE SHALL BE INDEPENDENTLY SUPPORTED AND APPROPRIATELY BRACED TO ELIMINATE ANY LATERAL FORCE ON THE CEILING MEMBRANE OR BRACING ELEMENTS.
- WHEN DRILL-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 POUNDS OF TENSION. WHEN DRILL-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. OF TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILL-IN ANCHOR FAILS, ALL ADJACENT ANCHORS MUST BE TESTED. REFER ALSO TO TESTING REQUIREMENTS OF CBC, SECTION 1923M.3.5.
- ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
 ALL RECESSED LIGHTING FIXTURES HAVING A NOMINAL END DIMENSION OF 24" OR GREATER, SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID RUNNER(S) AT THE END OF THE FIXTURE WITH TWO #8 SELF TAPPING TEK SCREWS. EACH SCREW SHALL BE LOCATED WITHIN 3" OF THE SIDE OF THE FIXTURE AND ATTACHED THROUGH THE BULB OF THE CEILING GRID RUNNER(S). LIGHT FIXTURES HAVING LESS THAN A NOMINAL 24" END DIMENSION SHALL BE ATTACHED WITH ONE #8 SELF TAPPING TEK SCREW TO THE BULB OF THE CEILING GRID RUNNER(S). ALL ATTACHMENTS SHALL BE CAPABLE OF LATERALLY SUPPORTING THE WEIGHT OF THE FIXTURE REGARDLESS OF WEIGHT OR SIZE. SHALL HAVE INTERLOCKING CEILING GRID RUNNER(S) ON ALL 4 SIDES OF THE FIXTURE.
- SUSPENDED CEILING ARE TO BE INSTALLED TO ASTM STANDARDS ASTM C 635 and ASTM C 636 (CBC SECTION 903.11) and the CSCA GUIDELINES FOR SEISMIC RESTRAINT FOR THE DIRECT-HUNG SUSPENDED CEILING ASSEMBLIES FOR SEISMIC ZONE 'D' AS MODIFIED BY THE FOLLOWING:
 A. A HEAVY-DUTY T-GRID SYSTEM SHALL BE USED
 B. THE WIDTH OF THE PERIMETER SUPPORTING ANGLE SHALL BE NOT LESS THAN 1/2" IN EACH OF THE HORIZONTAL DIRECTIONS. ONE END OF THE PERIMETER SUPPORTING ANGLE SHALL BE ATTACHED TO THE OTHER END IN EACH HORIZONTAL DIRECTION. SHALL HAVE 0.75 IN. CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON A CLOSURE ANGLE.
 C. CEILING AREAS EXCEEDING 1,000 S.F. SHALL HAVE HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURAL SYSTEM.
 D. CEILING EXCEEDING 2,500 S.F. SHALL HAVE A SEISMIC SEPARATION OR A WEIGHT VARIATION THAT BREAKS THE CEILING INTO AREAS NOT EXCEEDING 2,500 S.F. EACH. THE SEISMIC SEPARATION SHALL BE PROVIDED BY THE CEILING BRACING SYSTEM FOR THE PRESCRIBED SEISMIC FORCES THAT DEMONSTRATE CEILING SYSTEM PENETRATIONS AND CLOSURE ANGLES PROVIDE SUFFICIENT CLEARANCE TO ACCOMMODATE THE ANTIPOD LATERAL DISPLACEMENT WITH AN AREA THAT BE INDEPENDENTLY BRACED IN ACCORDANCE WITH THESE REQUIREMENTS.
 E. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZED SPACE BETWEEN THE CEILING AND THE SPRINKLER HEAD. THE SPRINKLER HEAD SHALL BE MOVABLE IN A HORIZONTAL DIRECTION OF AT LEAST 1 INCH IN ALL DIRECTIONS. A SWING JOINT THAT CAN ACCOMMODATE 1 INCH IN ALL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.
 F. PROVIDE POSITIVE CEILING BRACING AT ANY CHANGES IN CEILING ELEVATION.
 G. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE SUPPORTED INDEPENDENTLY OF THE CEILING.

APPROVED FOR CONSTRUCTION
 I, JOHN KRISTEDJA, ARCHITECT
 LICENSE NO. 10000
 DATE: 07/28/2020

- 12 GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING ALONG MAIN RUNNERS. SPICES WILL NOT BE PERMITTED IN ANY HANGER WIRES.
- PROVIDE 12 GA. HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNER SHOULD BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTING BEARING RINGS OR METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.



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