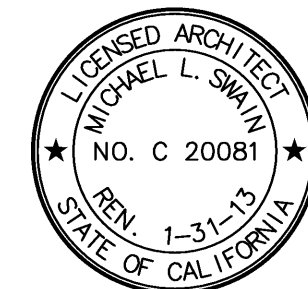


FKP Architects

ARCHITECT OF RECORD

Paul C. Gloriot



Changes on these drawings do not constitute materially altered changes to approved drawings and do not require a change order.
OSHPD review ACO _____
OSHPD review FLSO _____
OSHPD review DSE _____

REVISIONS

175	02/23/11	CO #147
458	02/27/12	CO #337
458	03/16/12	ASI #190

ADDITIONAL NOTES FOR INSTALLATION OF METAL SUSPENSION CEILING SYSTEM PER OSHPD RESOLUTION TO COMPLY WITH CBC SECTION 1614A.1.1 AND 809.1.

- WHERE CEILING GRID HAS NOT YET BEEN INSTALLED IN EXITWAYS:
 - USE DETAIL C4/A11.10.2
- FOR CEILING GRID IN EXITWAYS WHERE BERC CLIPS HAVE BEEN INSTALLED:
 - USE DETAIL B4 & B6/A11.10.2
 - VERTICAL HANGER WIRES WILL BE ADDED TO THE RUNNERS PERPENDICULAR TO THE WALL ANGLE FOR BOTH FIXED AND SLIP END AS REQUIRED ON A CASE-BY-CASE BASIS VERIFIED BY THE IOR, SEOR AND AOR.

458
CO #337

STANDARD NOTES FOR INSTALLATION OF METAL SUSPENSION CEILING SYSTEMS.

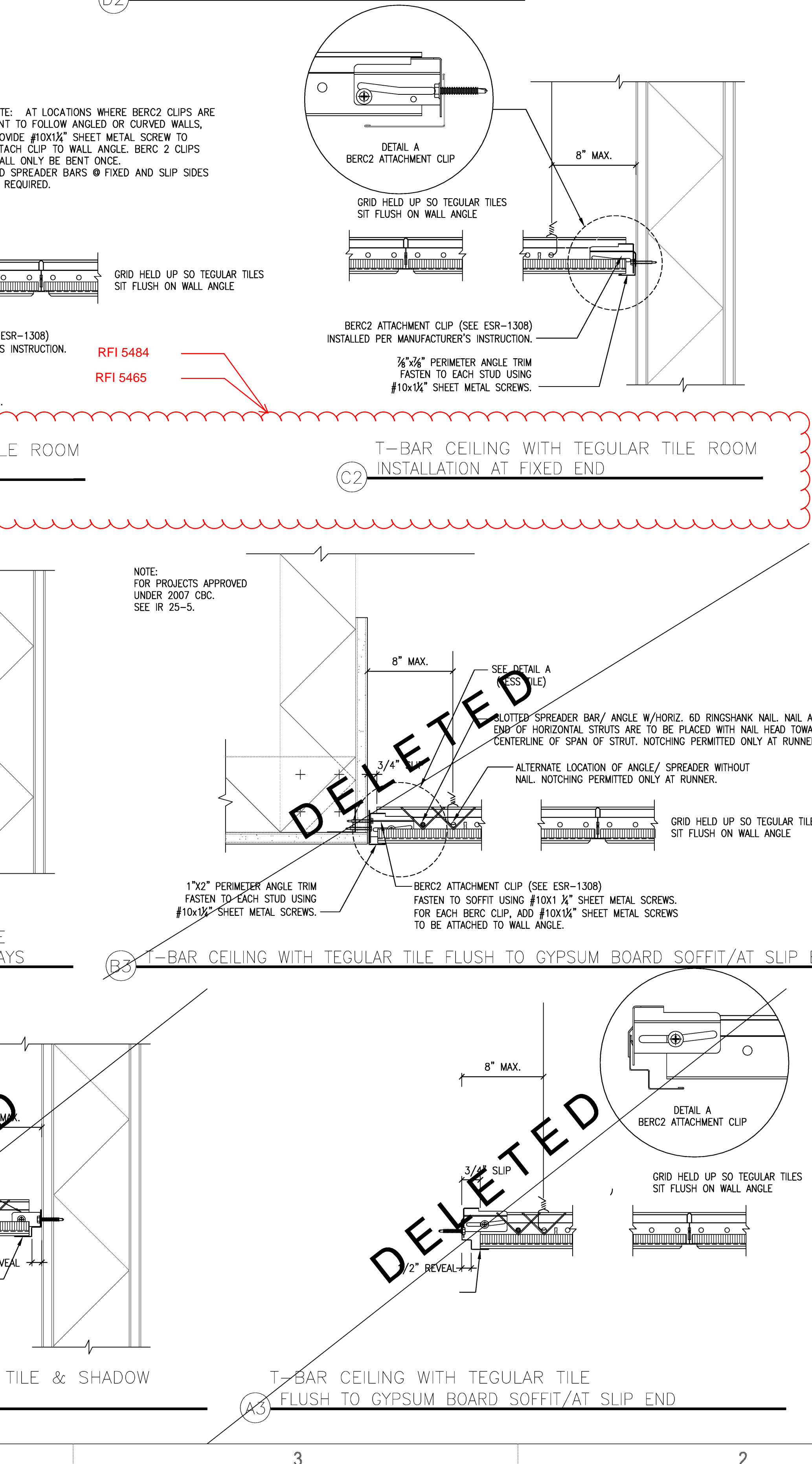
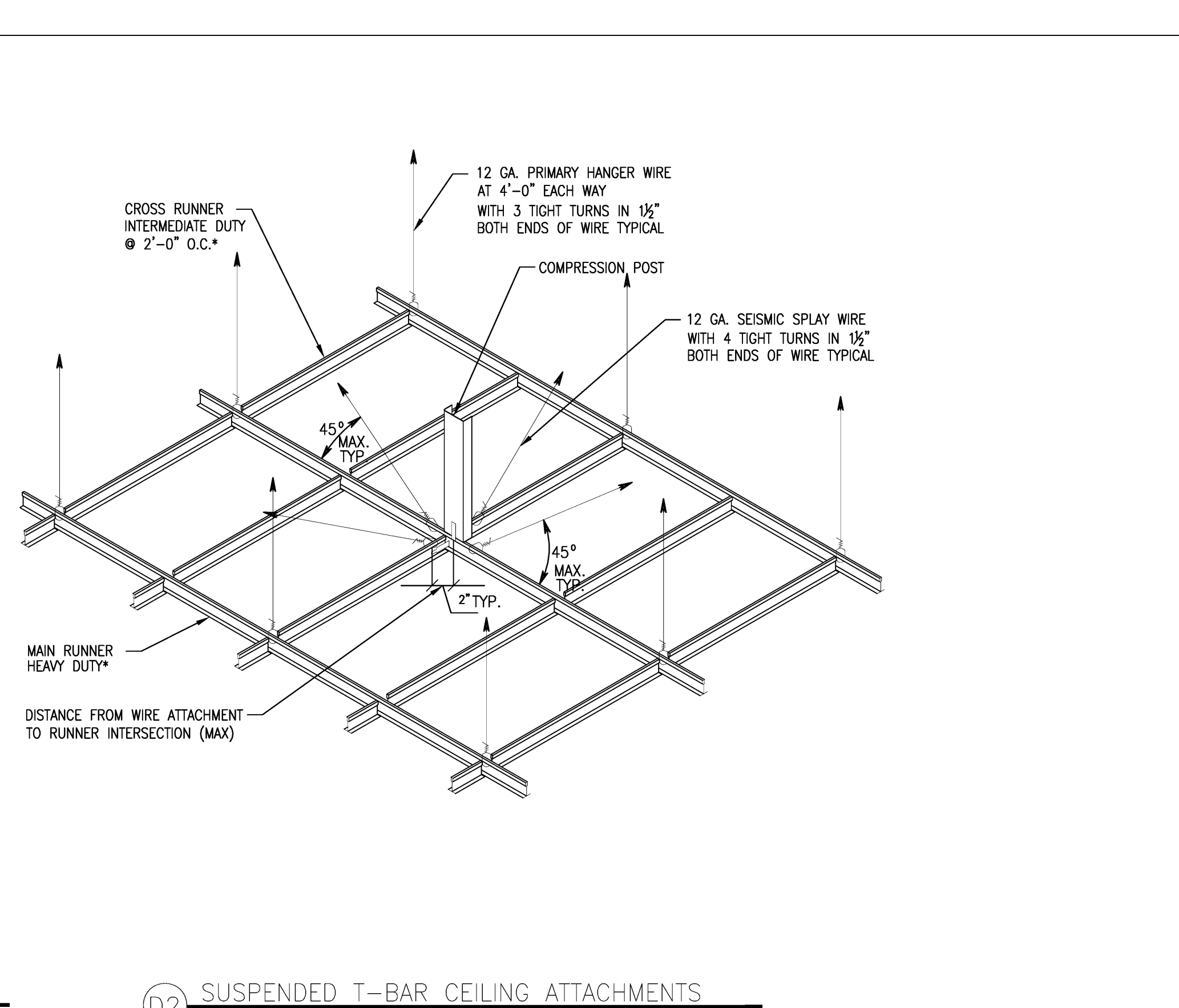
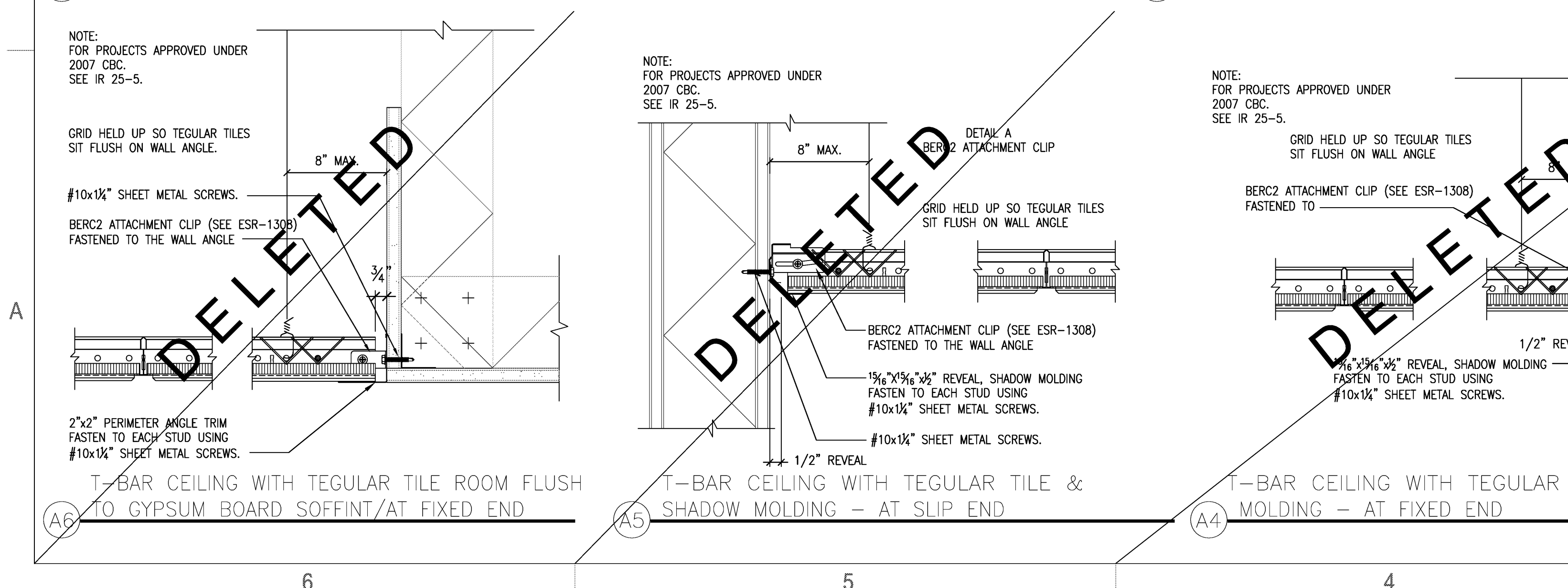
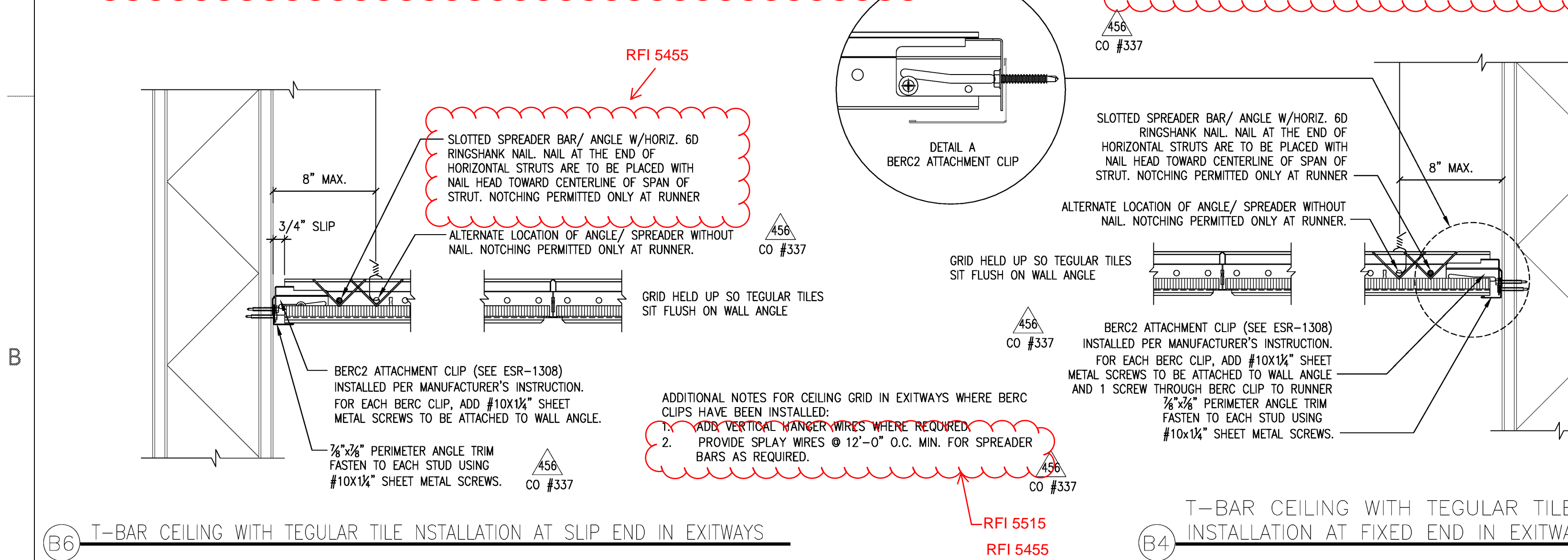
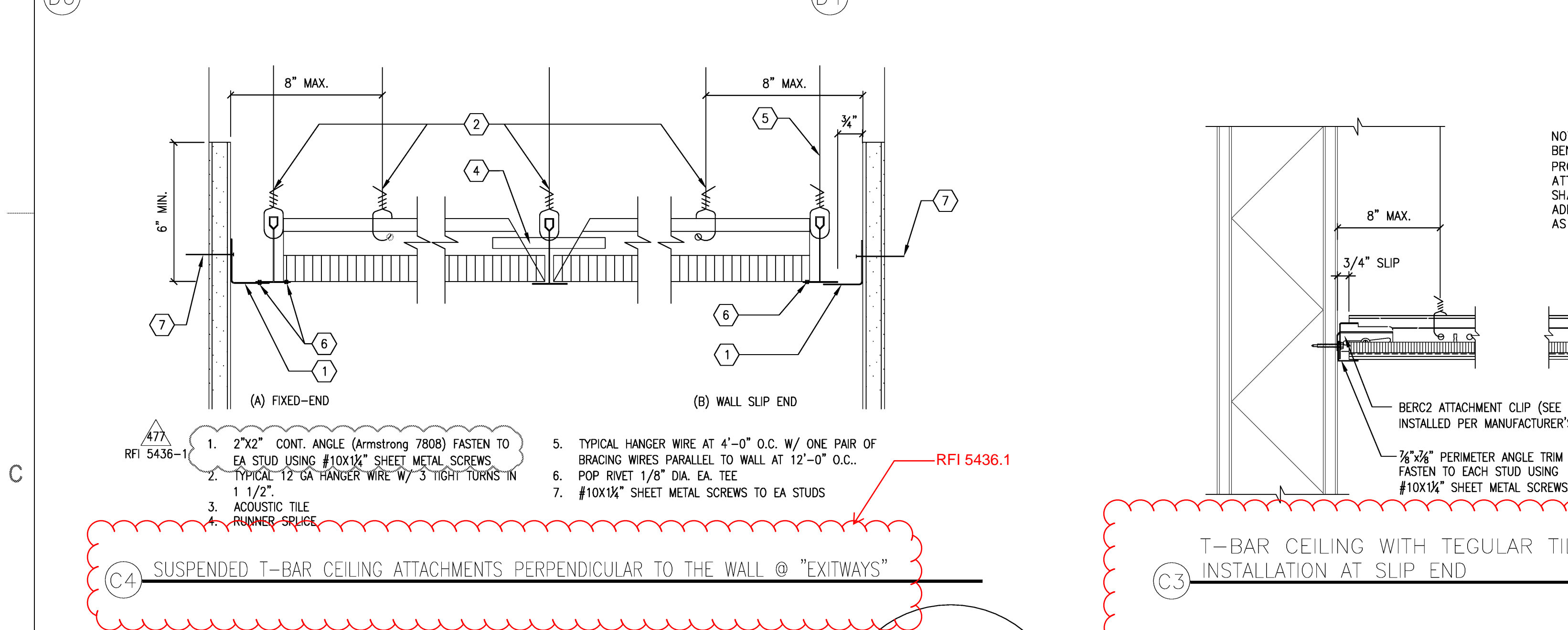
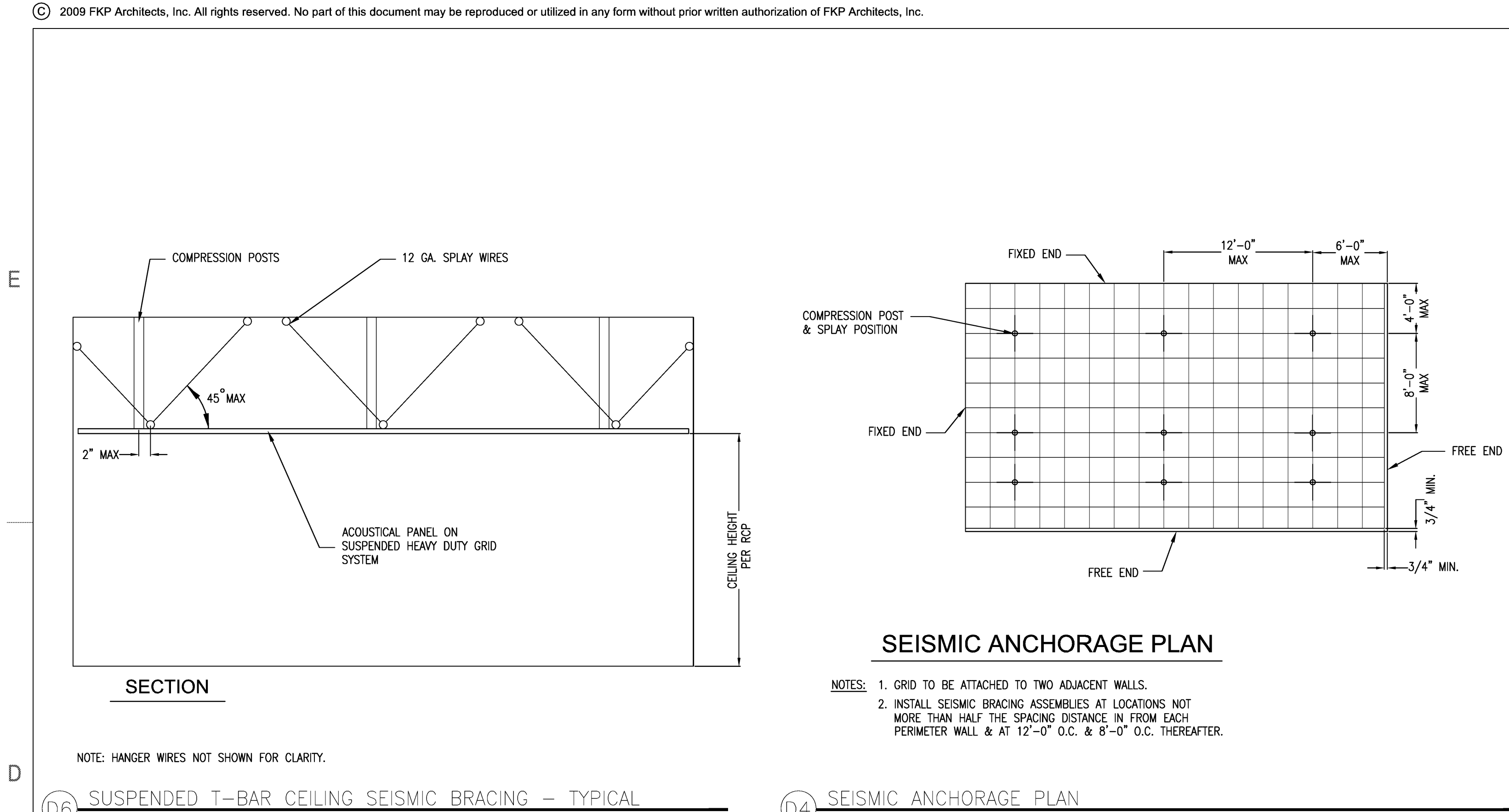
COMPLY WITH CBC 2007 SECTIONS 1614A.1, 9803.9.1.1 & 2506.2.1, ACSE07 SECTION 13 & IR 25-5 REQUIREMENTS FOR SUSPENDED CEILINGS.

THE FOLLOWING NOTES APPLY TO CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING HVAC DIFFUSERS AND LIGHT FIXTURES, DOES NOT EXCEED (4) POUNDS PER SQUARE FOOT.

- PROVIDE 12 GA. (MIN) PRIMARY HANGER WIRES SPACED AT 4'-0" x 4'-0" GRID SPACING ALONG MAIN RUNNERS.
- PROVIDE 12 GA. (MIN) PERIMETER HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN 8" FROM THE SUPPORT OR WITHIN ONE QUARTER OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED VERTICAL AND HORIZONTAL FORCES NEEDED, MAY BE USED IN LIEU OF THE #12 GAGE HANGER WIRES.
- SPICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY OSHPD.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL 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.
- THE CLASSIFICATION OF THE CEILING SUSPENSION SYSTEM SHALL BE RATED AS HEAVY DUTY, PER ASTM C635 4.1.1 STRUCTURAL CLASSIFICATION IS DETERMINED BY THE LOAD CARRYING CAPACITY OF THE MAIN RUNNERS.
- CEILING GRID MEMBERS MAY BE FIXED TO NO MORE THAN 2 ADJACENT WALLS.
- PERIMETER TRIM AND GRID ATTACHMENTS ARE PER ARMSTRONG ESR-1308 ALTERNATE SEISMIC INSTALLATION.
 - THE BERC-2 CLIP IS USED TO SECURE THE MAIN RUNNERS AND CROSS RUNNERS ON TWO ADJACENT WALLS TO THE STRUCTURE (FIXED END) AND THE TWO OPPOSITE WALLS TO THE PERIMETER TRIM (SLIP END).
 - THE BERC-2 CLIP INSTALLED ON THE WALLS WHERE THE RUNNERS ARE FIXED ARE ATTACHED TO THE RUNNER BY A SHEET METAL SCREW THROUGH THE HORIZONTAL SLOT IN THE CLIP INTO THE WEB OF THE RUNNER.
 - A NONWALL 3/8 INCH WALL MOLDING IS USED IN LIEU OF THE 2 INCH PERIMETER SUPPORTING CLOSURE ANGLE REQUIRED BY SECTION 9.6.2.6.2.2 (b) OF ASCE-7 FOR SEISMIC DESIGN.
 - EXCEPT FOR THE USE OF THE BERC-2 CLIP, THE 3/8 INCH WALL MOLDING AND ELIMINATION OF SPREADER BARS, INSTALLATION OF THE CEILING SYSTEM MUST BE AS PRESCRIBED BY THE APPLICABLE CODE.
- PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION POST AND FOUR #12 GAGE SPAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
- BRACING ASSEMBLIES SHALL BE SPACED AT A MAXIMUM OF 8 FEET BY 12 FEET ON CENTERS.
- BEGIN BRACING ASSEMBLY SPACING NO MORE THAN HALF THE MAXIMUM SPACING DISTANCE, IN EACH DIRECTION, FROM EACH PERIMETER CONDITION.
- JOIST FRAMING, DIRECT ATTACHMENT SUSPENSION AND DIRECT ATTACHMENT SEISMIC BRACING METHODS WHICH ARE DESIGNED AND DETAILED TO WITHSTAND THE APPLIED VERTICAL AND HORIZONTAL FORCES NEEDED, MAY BE USED IN LIEU OF WIRE AND COMPRESSION POST INSTALLATION METHODS.
- FIRE RATED ACOUSTICAL CEILING SYSTEMS INSTALLED IN ROOMS WITH AN AREA OF 96 SQUARE FEET OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GA WIRES, EACH INDEPENDENTLY BRACED ABOVE THE CEILING TO STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
- THE SLOPE OF SPAY BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT.
- FASTEN PERIMETER AND PRIMARY HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS AND FASTEN SPAYED BRACING WIRES WITH NOT LESS THAN 4 TIGHT TURNS, WITHIN A DISTANCE OF 1-1/2 INCHES. 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.
- WHEN DRILLED-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 IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 POUNDS IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.
- SEPARATE ALL CEILING HANGER AND BRACING WIRES BY AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
- ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4'-0" x 4'-0" LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
- ALL LIGHT FIXTURES, AIR TERMINALS OR SERVICES, ATTACHMENTS WILL BE PERFORMED BY THE SUPPLYING SUB CONTRACTOR. THE CEILING SUB CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR PROVIDING THE SLACK SAFETY WIRES.
- ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GA WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE, REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GA. WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.
- SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.
- COMPRESSION STRUTS SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

458
CO #337

GENERAL NOTES



DRAWING NUMBER

A11.10.2

175
CO #147