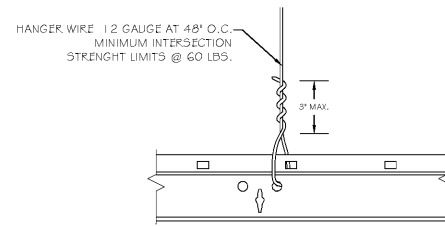
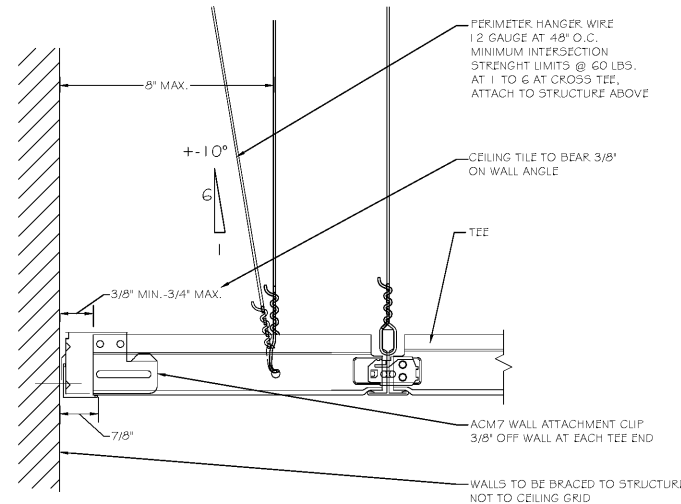


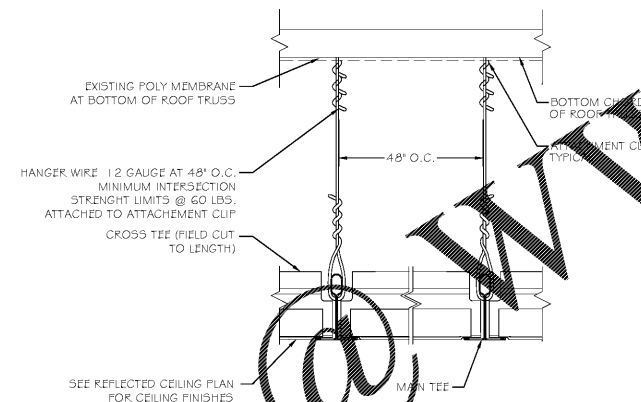
1 ISOMETRIC DETAIL  
NOT TO SCALE



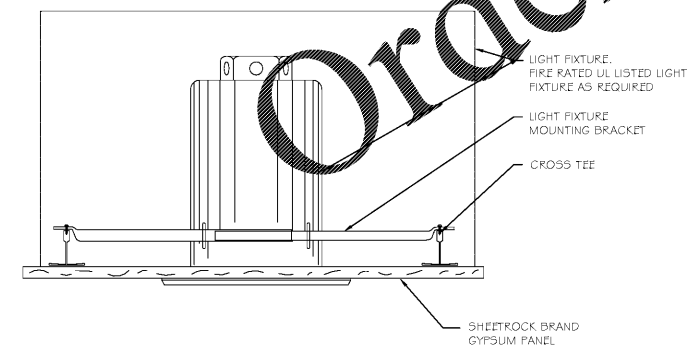
2 ASTM C636 WIRE TIE DETAIL  
NOT TO SCALE



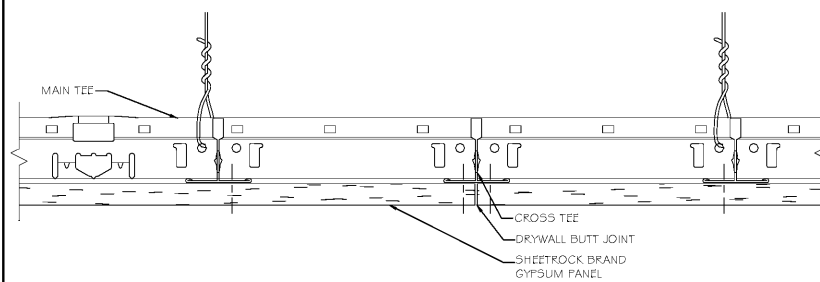
3 ACM7 CLIP - FLOATING WALL  
NOT TO SCALE



4 ATTACHMENT DETAIL  
NOT TO SCALE



6 INCANDESCENT RECESSED FIXTURE  
NOT TO SCALE



7 GYPSUM SOFFIT AT SUSPENDED CEILING, TYP.  
NOT TO SCALE

RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS  
PROVISIONS APPLICABLE IN ZONE 2

The intent of the following provisions is to provide an unrestrained ceiling systems that will accommodate the movement of the structure during a seismic event. The objective is to have a free-floating ceiling. Dynamic testing of a ceiling for response motions consistent with zone 2 lateral force levels has validated the concept.

EXCEPTIONS:

1. A ceiling area of 144 square feet or less surrounded by walls that connect directly to the structure above shall be exempt from the requirements listed below.
2. Ceilings constructed of lath and plaster or gypsum board screw or nail attached to suspended members that support a ceiling on n=one level extending from wall to wall be exempted from the requirements below.

REQUIREMENTS:

- 1) Each individual fixture and attachments with a combined weight of 10 lbs. or less shall have one No. 12 gauge wire hanger wire connected from the fixture housing to the structure above. This wire may be slack. Each individual fixture and attachments with a combined weight of 56 lbs. or less shall have two No. 12 gauge wire hangers attached at diagonal corners of the fixture and connected from the fixture housing to the structure above. These wires may be slack. Any fixture and attachment with a combined weight greater than 56 lbs. must be independently supported to the structure.
- 2) The main runner/cross runner intersections and splices must have an average ultimate test strength of 60 lbs. or more in both tension and compression. The tensile test must allow for the drag angle of the connection.
- 3) The actual average weight of the ceiling system, including grid, panels or tile, light fixture and air terminals must be 2.5 psf or less. All other services must be supported independently from the ceiling system. For ceiling that have an average weight greater than 2.5 psf, ceiling may be installed as specified in Zones 3-4 provided taking into account design lateral force factor appropriate for zone 2. Other deviations or variations must be substantiated by verifiable engineering data.
- 4) The ceiling system cannot be used to provide lateral support for walls or partitions. Walls or partitions may be attached to the ceiling grid provided they allow the ceiling membrane to move laterally to accommodate the required clearances as specified below.
- 5) All perimeter closure angles or channels must provide a support ledge or approximately 1/2 in. or greater. A perimeter end of a grid member must rest on the ledge or molding with at least 1/8 in. clearance from an edge or wall as shown in Figure 1. Reveal (shadow) edge wall closure should accommodate these clearances as shown in Figure 2. For perimeter closure angles that provide a support ledge of less than noted above, the perimeter ends of each cross runner and main runner shall be independently supported within 8 in. from each wall or ceiling discontinuity as shown in Figure 3. This support may be a no. 12 gauge hanger wire or other support that prevents the grid from falling. This wire does not need to be vertical but should not have a slope greater than 1 in 6 out-of-plumb. A 1/8 in. grid end clearance from a wall should be maintained. All ceiling penetrations (columns, sprinklers, etc.) and independently supported fixtures or services are to be considered as perimeter closures that also must allow the noted clearances by using suitable escutcheons or closure details.
- 6) At wall closure ledges, the cross runner and main runner ends shall be prevented from spreading apart from each other. Permanent attachments (i.e. pop rivets) for grid alignment purposes shall be permitted.

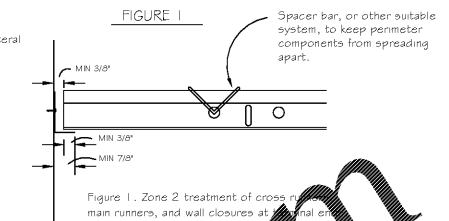


Figure 1. Zone 2 treatment of cross runners, and main runners, and wall closures at terminal ends.

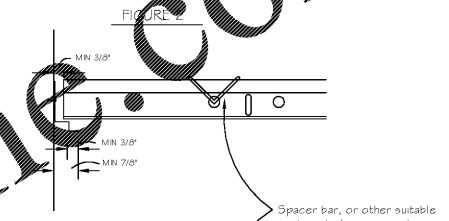


Figure 2. Treatment of cross runners, and main runners, at terminal ends when using reveal (shadow) edge wall closures.

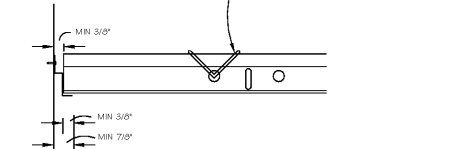
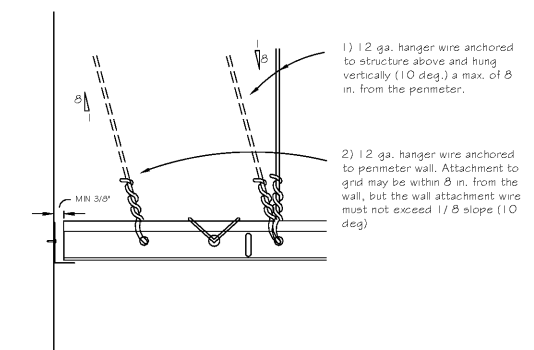


Figure 3. Treatment of cross runners, and main runners, at terminal ends when using reveal (shadow) edge wall closures.

12 ga hanger wire perimeter supports two alternatives:



1) 12 ga. hanger wire anchored to structure above and hung vertically (10 deg.) a max. of 8 in. from the perimeter.

2) 12 ga. hanger wire anchored to perimeter wall. Attachment to grid may be within 8 in. from the wall, but the wall attachment wire must not exceed 1/8 slope (10 deg)

5 SEISMIC DETAIL OF SUSPENDED CEILING  
NOT TO SCALE

NOTE

1. CEILING INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:  
\*CISCA 0-2 ( CEILING AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION) AND ASCE/SEI 7-05 SECTION 13.5.6.2.1 FOR SEISMIC DESIGN CATEGORY C STRUCTURES  
\*CISCA 3-4 ( CEILING AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION) AND ASCE/SEI 7-05 SECTION 13.5.6.2.2 FOR SEISMIC DESIGN CATEGORY D STRUCTURES
2. REFER TO USG CORPORATION FOR SEISMIC CEILING DETAILS AND INSTALATION RECOMMENDATIONS

REVISIONS

NO.	DESCRIPTION

RENEWED MEDICAL BUILDING  
CORE & SHELL ONLY

SOUTH FULTON, GEORGIA  
PROJECT #19-2983

PROJECT



PERMIT SET  
RELEASE DATE

CEILING  
DETAILS

DRAWING TITLE

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Drawn By: JC  
Checked By: RG, JB  
PROJECT # 19-2983  
SHEET 30 OF 37

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