



City of Milpitas

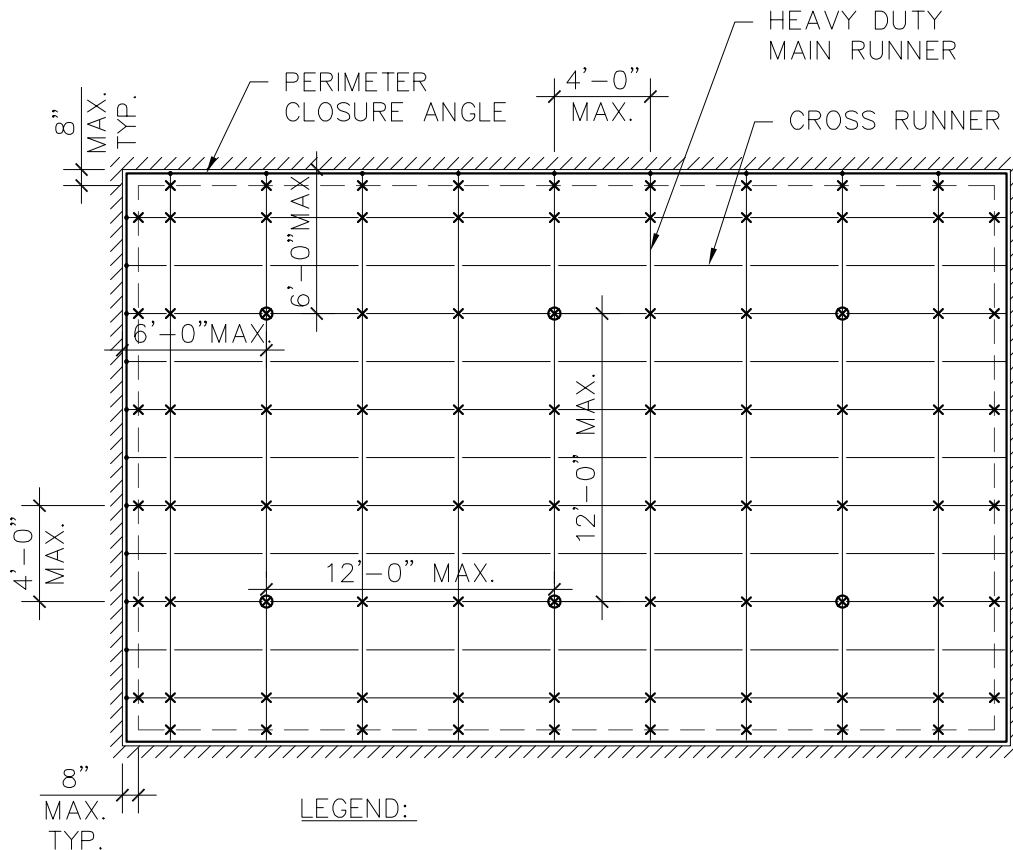
Office of Building Safety

DESIGN GUIDELINE FOR

SUSPENDED CEILING



455 E. Calaveras Blvd.
Milpitas, CA 95035
408-586-3240
www.milpitas.gov



LEGEND:

- × 12 GAUGE VERTICAL HANGER WIRE
- ⊗ LATERAL BRACING (COMPRESSION STRUT AND BRACING WIRES)
- ATTACHMENT OF RUNNERS TO CLOSURE ANGLE

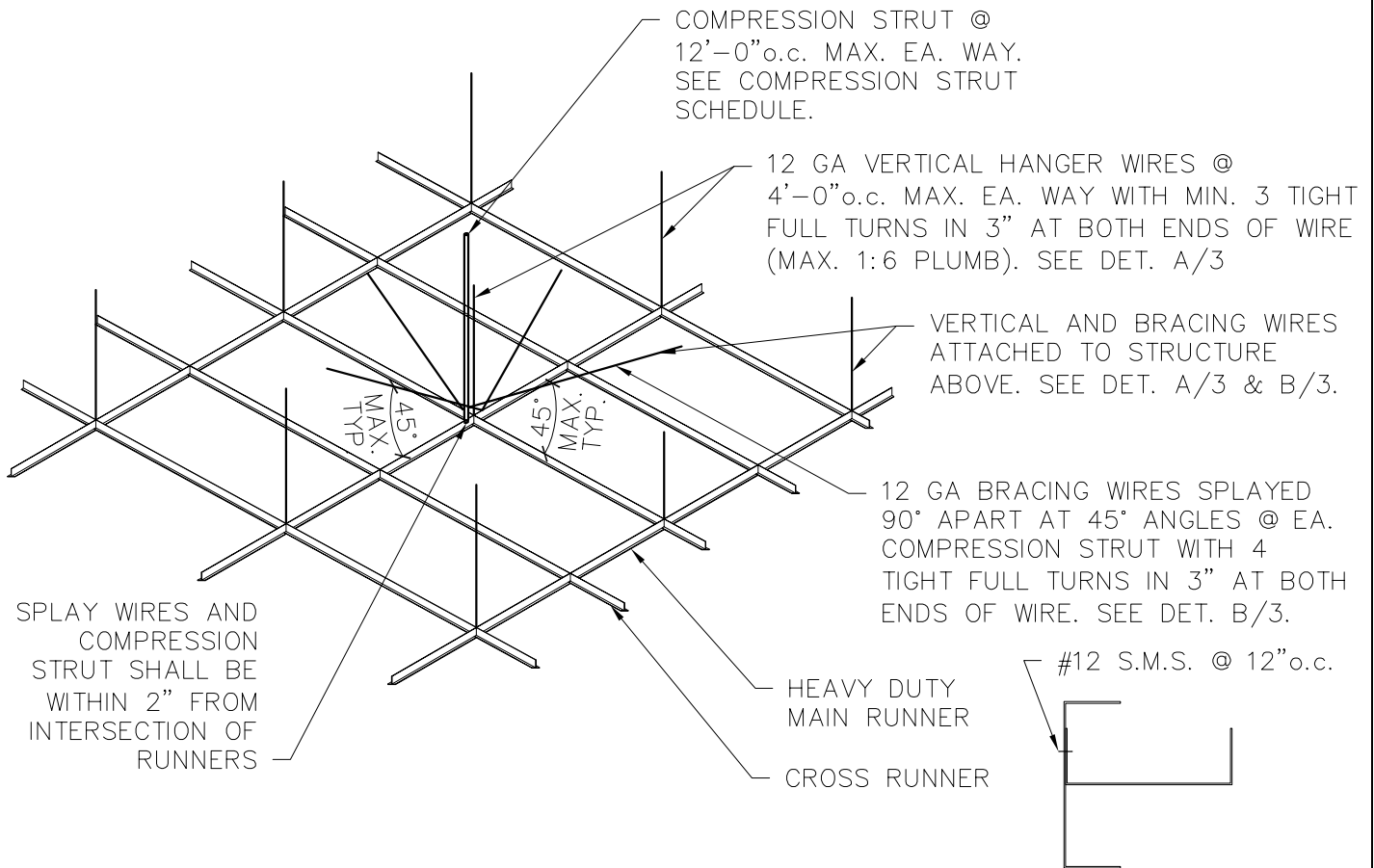
NOTES:

1. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1" IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE 1" OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.
2. SEE DET. C/3 FOR DETAILS AT CEILING PERIMETER.
3. CEILING WITH AN AREA GREATER THAN 2500 SQ. FT. SHALL BE PROVIDED WITH SEISMIC SEPARATION JOINTS.
4. SEE DET. D/3 FOR ATTACHMENT DETAIL OF LIGHT FIXTURE 20 LBS OR LESS.
5. THE INFORMATION PROVIDED IN THIS DESIGN GUIDE CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS. BY USING THIS DESIGN GUIDE, THE CONTRACTOR/OWNER ACCEPTS THE FULL RESPONSIBILITY OF RISK. ALTERNATE DESIGN MAY BE USED WHEN PROVIDED WITH WET STAMPED AND SIGNED STRUCTURAL CALCULATIONS & DETAILS BY A CALIFORNIA LICENSED ENGINEER OR ARCHITECT.

VER	DATE	BY
1	FEB 2023	HLK
2		
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City of Milpitas
Office of Building Safety
SUSPENDED CEILING
SAMPLE REFLECTED CEILING PLAN

SHEET
1
OF 3 SHEETS



DETAIL A

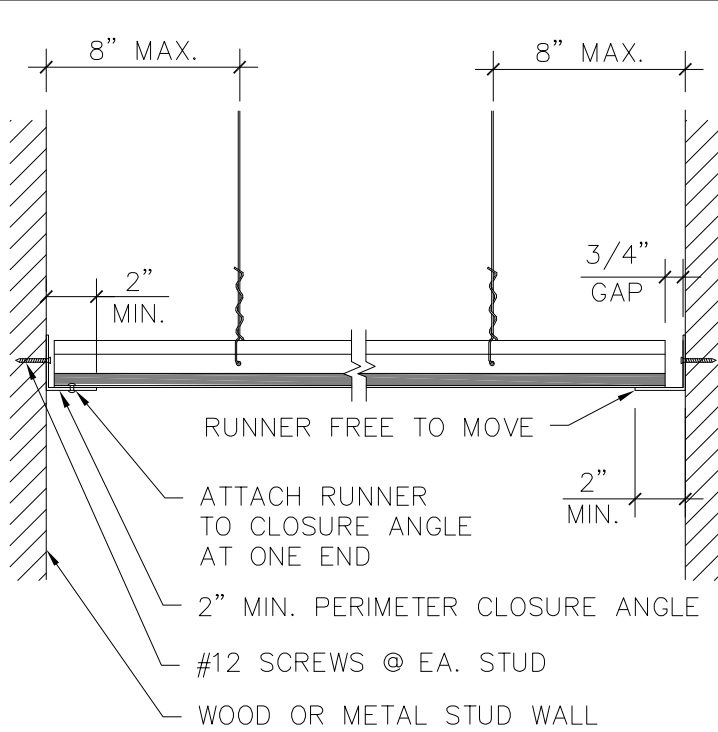
COMPRESSION STRUT SCHEDULE

ALLOWABLE MAX. STRUT LENGTH	USG DONN COMPRESSION STRUT	EMT COMPRESSION STRUT	METAL STUDS
2'-6"	VSA 18/30	½"ø	250S125-33
4'-0"	VSA 30/48	½"ø	250S125-33
5'-0"	VSA 48/84	¾"ø	250S125-33
6'-6"	VSA 48/84	1"ø	250S125-33
7'-0"	VSA 48/84	1¼"ø	250S125-33
8'-6"	VSA 84/102	1¼"ø	362S162-33
10'-0"	VSA 102/120	1½"ø	362S162-33
12'-0"	VSA 120/144	2"ø	362S200-33
16'-0"	—	—	(2)-362S162-33 (DET. A)
20'-0"	—	—	(2)-400S200-33 (DET. A)

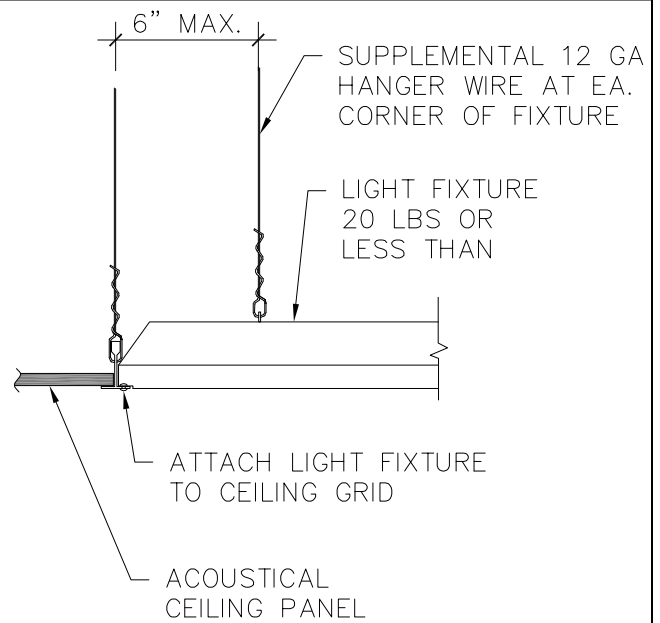
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City of Milpitas
 Office of Building Safety
SUSPENDED CEILING
SAMPLE CEILING GRID PERSPECTIVE VIEW

SHEET
2
 OF 3 SHEETS

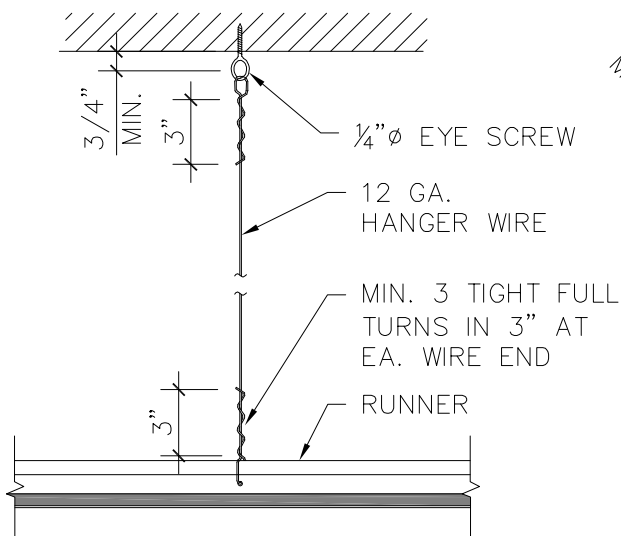


C CEILING PERIMETER DETAIL
SCALE: 1-1/2"=1'-0"

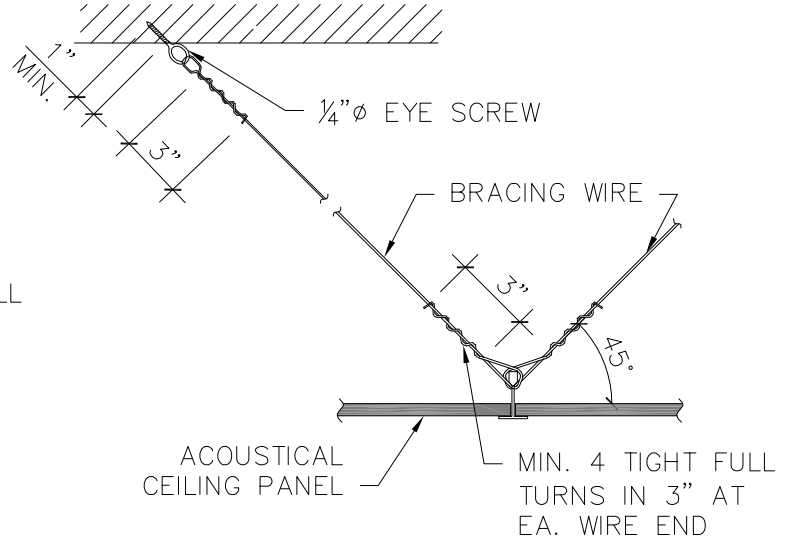


D LIGHT FIXTURE ATTACHMENT DETAIL
SCALE: 1-1/2"=1'-0"

NOTE: ROOF MEMBERS SHALL BE MIN. 2x6 FOR ATTACHMENT OF ANY WIRE OR COMPRESSION STRUT



A HANGER WIRE TIE DETAIL
SCALE: 1-1/2"=1'-0"



B BRACING WIRE TIE DETAIL
SCALE: 1-1/2"=1'-0"

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SAMPLE DETAILS

SHEET
3
OF 3 SHEETS