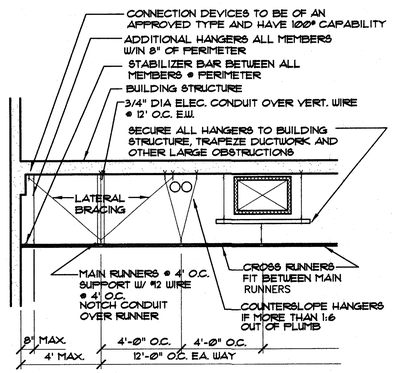


LATERAL BRACING @ 12" O.C. EACH WAY. MAIN RUNNER TO STRUCTURE. BEGIN BRACING WITHIN 4' OF PERIMETER & 2" FROM CROSS MEMBER.

GENERAL INSTALLATION REQUIREMENTS - IBC 803.8.11, ASTM C 635 & ASTM 636:

(a) HANGERS
1) HANGERS TO BE A MIN. OF #12-GA. GALVANIZED, SOFT ANNEALED MILD STEEL WIRE @ 4' O.C. EACH WAY.
2) ATTACHMENT DEVICES TO BE OF AN APPROVED TYPE CAPABLE OF CARRYING 5 TIMES THE CEILING LOAD (*90)*
3) HANGERS TO BE PLUMB OR COUNTER SPLAYED AND NOT PRESSED AGAINST PIPE OR DUCT INSULATION.

(b) CARRYING CHANNELS
(c) MAIN RUNNERS
4) CARRYING CHANNELS AND MAIN RUNNERS ARE TO BE LEVEL W/IN 1/8" IN 12", LEVELING IS TO BE PERFORMED W/ HANGERS8 TAUT, KINKS OR BENDS ARE NOT TO BE USED AS A WAY OF LEVELING.

(g) CEILING FIXTURES
5) DEFLECTION SHALL BE LIMITED TO 1/360 OR .133" (1/8") IN A 4' SPAN, IF THE FIXTURE CAUSES A DEFLECTION IN EXCESS OF 1/8", THE FIXTURE SHALL BE INDEPENDENTLY SUPPORTED OR THE GRID SHALL BE SUPPLEMENTALLY SUPPORTED W/N 6" OF EACH CORNER WITH A #12 WIRE.
6) A FIXTURE INSTALLATION SHALL NOT CAUSE THE RUNNERS TO ROTATED MORE THAN 2° FROM THE VERTICAL (THIS IS THE EQUIVALENT OF 1/2"FOR A STANDARD 1" TEE.)

*SEE LATERAL BRACING REQUIREMENTS THAT FOLLOW FOR MORE RESTRICTIVE REQUIREMENTS.

LATERAL BRACING REQUIREMENTS IN LIEU OF ENGINEERED DESIGN (APPLICABLE ONLY TO STANDARD 2' x 2' AND 2' x 4' GRIDS WHEN NOT SUPPORTING PARTITIONS.)

(a) VERTICAL HANGERS
1) HANGERS TO BE A MINIMUM OF #12 GA. GALVANIZED, SOFT ANNEALED MILD STEEL WIRE @ 4' O.C. EACH WAY, HANGERS TO BE ATTACHED TO SUSPENSION MEMBERS & TO THE SUPPORT ABOVE WITH A MINIMUM OF THREE TURNS, HANGERS SHALL NOT ATTACH TO OR BEND AROUND OTHER MATERIAL OR EQUIPMENT AND SHALL NOT BE MORE THAN 1" IN 6" OUT OF PLUMB WITHOUT BEING COUNTERED SPLAYED.
2) ALL CONNECTING DEVICES SHALL BE OF AN APPROVED TYPE CAPABLE OF SUPPORTING 100*5 AND BE SECURED TO THE BUILDING STRUCTURE.
3) A TRAPEZE OR EQUIVALENT SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT ATTACHMENT TO THE STRUCTURE. TRAPEZE SUSPENSIONS SHALL BE A MINIMUM OF BACK TO BACK 1¼" COLD ROLLED CHANNELS WHEN SPANS EXCEED 48".

(b) PERIMETER HANGERS
4) ALL RUNNERS SHALL BE INDEPENDENTLY SUPPORTED AT THE PERIMETER WITHIN 8" OF THE WALL OR CEILING DISCONTINUITY, THE WALL ANGLE OR CLOSURE STRIP SHALL NOT BE ALLOWED FOR THIS PURPOSE.

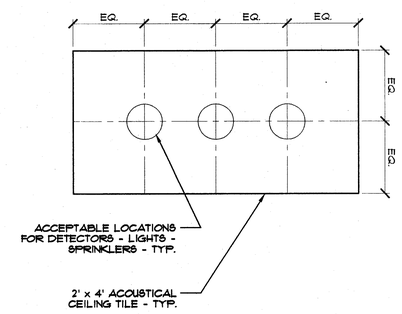
(c) LATERAL BRACING
5) WITHIN 4" OF THE WALLS AND AT 12" O.C. IN EACH DIRECTION, 4-#12 GA. WIRES SHALL BE CONNECTED WITHIN 2" OF AN INTERSECTION OF A MAIN RUNNER AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.

(d) PERIM. MEMBERS
(e) ATTACHMENT TO PERIM. MEMBERS
6) MEMBERS PERPENDICULAR TO THE WALL SHALL BE TIED TOGETHER (STABILIZED) TO PREVENT THEIR SPREADING. THIS SHALL BE DONE IMMEDIALELY ADJACENT AND PARALLEL TO THE WALL. THE WALL OR CLOSURE ANAGLE SHALL NOT BE USED FOR THIS PURPOSE ALTHOUGH TO FACILITATE INSTALLATION, RUNNERS MAY BE ATTACHED TO THE CLOSURE ANGLE AT TWO ADJACENT WALLS WITH CLEARANCES BEWTEEN THE WALL AND THE RUNNER BEING MAINTAINED AT THE OTHER TWO WALLS.

(f) LIGHT FIXTURES
*(7) ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE FIXTURE WEIGHT IN ANY DIRECTION.
8) ONLY INTERMEDIATE-DUTY AND HEAVY-DUTY SUSPENSION SYSTEMS SHALL BE USED TO SUPPORT LIGHT FIXTURES. (IF A LIGHT DUTY SYSTEM IS USED THE FIXTURES MUST BE INDEPENDENTLY SUPPORTED AT EACH CORNER WITH A #12-GA. HANGER) WITH INTERMEDIATE-DUTY SUSPENSION SYSTEMS, THE GRID MEMBERS SHALL HAVE SUPPLEMENTAL SUPPORT WITHIN 3" OF EACH CORNER OF THE FIXTURE WITH A #12 GA. HANGER WHERE HEAVY-DUTY SUSPENSION SYSTEMS ARE USED, SUPPLEMENTAL SUPPORT IS REQUIRED.
9) IN ADDITION TO THE ABOVE, FIXTURES OR OTHER EQUIPMENT WEIGHING MORE THAN 20# BUT LESS THAN 56# SHALL HAVE TWO #12 GA. WIRES FROM THE HOUSING TO THE STRUCTURE ABOVE OR TO OTHER HANGER WIRES. THESE WIRES MAY BE SLACK. FIXTURES OR OTHER EQUIPMENT WEIGHING IN EXCESS OF 56# SHALL BE INDEPENDENTLY SUPPORTED WITH #12 GA. WIRE AT EACH CORNER TO THE STRUCTURE ABOVE. PENDANT HUNG FIXTURES SHALL BE INDEPENDENTLY SUPPORTED W/ A MINIMUM OF ONE #9 GA. WIRE.

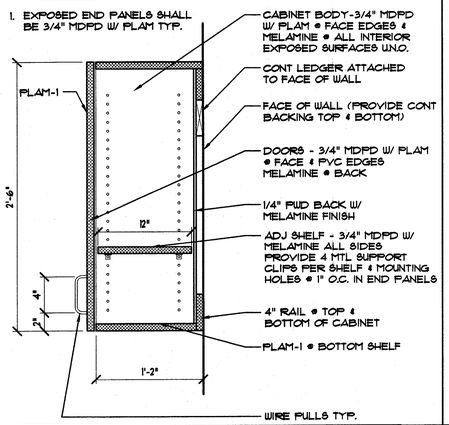
*THIS REQUIREMENT SATISFIES ARTICLE 410-15(c) OF THE NEC.

A1 LATERAL BRACING AT SUSP. CEILING
SCALE: N.T.S. — LATERAL BRACE

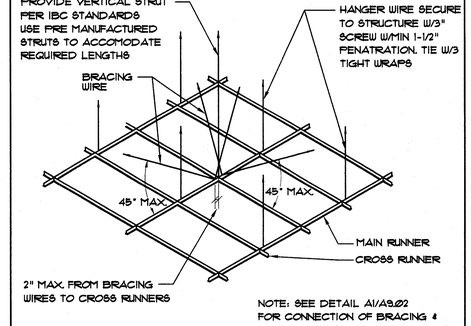


E3 MOUNTING LOCATIONS IN ACT
SCALE: 1" = 1'-0" — ACT MOUNT

C3 FIRE EXTINGUISHER CABINET
SCALE: 1 1/2" = 1'-0" — RECESSED FE

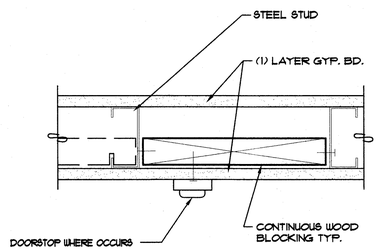


A3 UPPER CABINET WITH DOORS
SCALE: 1 1/2" = 1'-0" — CABINET 1



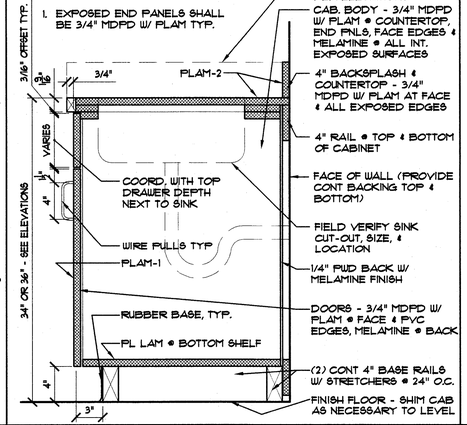
NOTE: SEE DETAIL A1/A9.02 FOR CONNECTION OF BRACING & HANGER WIRES TO THE STRUCTURAL ABOVE

E5 SUSPENDED CEILING GRID DETAIL
SCALE: N.T.S. — CEILING GRID

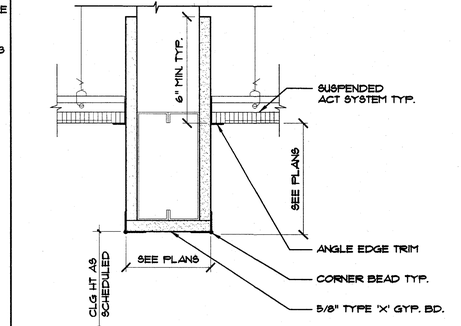


NOTES:
1. PROVIDE CONTINUOUS BLOCKING NAILER AT ALL CASEWORK.
2. FIRE TREAT WOOD BLOCKING INSTALLED IN ALL FIRE RATED WALLS.
3. PROVIDE WOOD BLOCKING FOR ALL WALL HUNG EQUIPMENT. COORDINATE BLOCKING LOCATIONS PRIOR TO GYPSUM BOARD INSTALLATION

C5 BLOCKING/BACKING
SCALE: 3" = 1'-0" — DOORSTOP BLOCKING

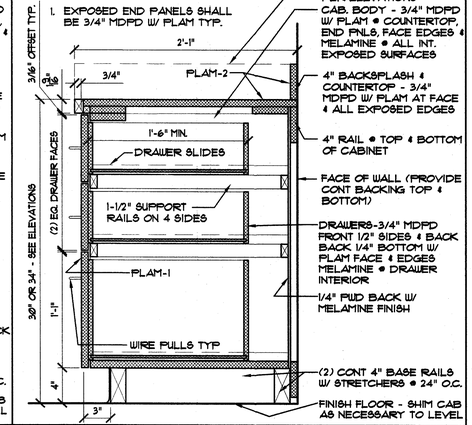


A5 LOWER CABINET WITH DOORS & SINK
SCALE: 1 1/2" = 1'-0" — CABINET 2

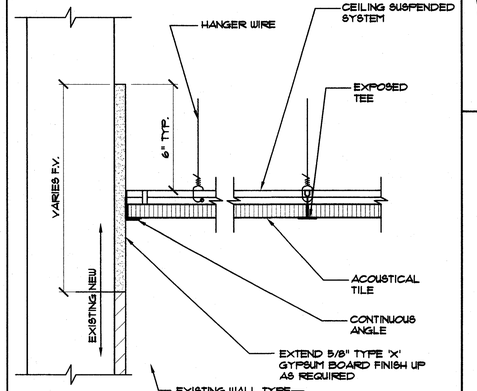


NOTES:
1. PROVIDE CONTINUOUS BLOCKING NAILER AT ALL CASEWORK.
2. FIRE TREAT WOOD BLOCKING INSTALLED IN ALL FIRE RATED WALLS.
3. PROVIDE WOOD BLOCKING FOR ALL WALL HUNG EQUIPMENT. COORDINATE BLOCKING LOCATIONS PRIOR TO GYPSUM BOARD INSTALLATION

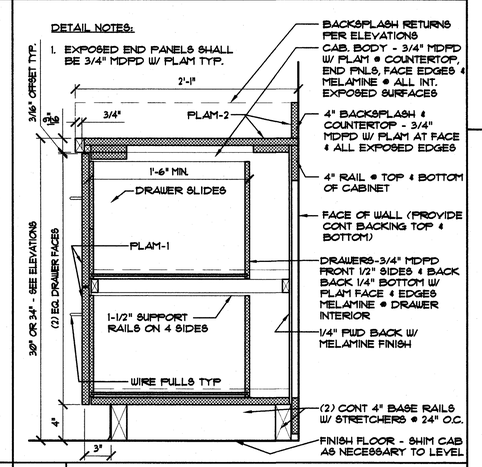
C7 GWB SOFFIT TO AC TILE TRANSITION
SCALE: 3" = 1'-0" — SOFFIT 2



A7 LOWER CABINET W/ THREE DRAWERS
SCALE: 1 1/2" = 1'-0" — CABINET 3



E9 ACT CEILING AT WALL
SCALE: 3" = 1'-0" — CEILING AT WALL



C9 LOWER CABINET W/ TWO DRAWERS
SCALE: 1 1/2" = 1'-0" — CABINET 5

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REVISIONS
DRAWN BY: KC
CHECKED BY: BW
DATE 01/10/2013
JOB NUMBER 1278
SHEET NAME **INTERIOR DETAILS**
SHEET **A9.03**