



- METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING
- 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA.
 - FOR ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS AT THE PERIMETER OF THE CEILING AREA. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED, AT ALL CEILING BREAMS, SOFFITS AND OVERHEAD DOORS TO MAINTAIN HANGER SPACING MORE THAN 1' IN 6" OUT OF PLUMB ARE TO HAVE COUNTERBRACED 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 RUNNERS 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 INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 12" OR LESS. THIS INTERLOCK IS NOT REQUIRED.
 - PROVIDE SETS OF 4-#12 GA. SPLAYED BRACING WIRES ORIENTED TO CORNERS FROM EACH OTHER AT THE PERIMETER OF SPACES. PROVIDE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS.
 - (A) WIRE BRACING SHALL BE PROVIDED FOR ALL SPACES IN SCHOOL BUILDINGS. PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
 - (B) THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE CEILING TO THE WALL. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL DSA APPROVAL.
 - FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL 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 TIGHTENS AS CLOSE AS POSSIBLE WITH THE DIRECTION OF THE STRUCTURE.
 - SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC. IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA.
 - ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE LIGHT FIXTURES AND AIR TERMINALS OR 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 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
 - CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" AND ANCHORED TO THE STRUCTURE ABOVE.
- PER ASTM CROSS CATALOG NUMBER - MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A
- MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER PER TABLE A
- MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A
- ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS I, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NON-DECOMPOSED, SOOT RESISTANT, AND A MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A. HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4" CROSS TEE	H.D. 2" CROSS TEE
DOMINUS	DC-26	DC-24	DC-28
CHICAGO MET.	200-01	1204-01	1228-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

AMERICAN MODULAR SYSTEMS
333 EAST CARNEGIE CT. MANTECA, CALIFORNIA 95337
PHONE (209) 825-1921 FAX (209) 825-7018

CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

SCALE: 1/4" = 1'-0"

24 X 40
RELOCATABLE
CLASSROOMS

CUSTOMER:
BAKERSFIELD CITY SCHOOL DISTRICT
THORNER ELEMENTARY SCHOOL

DATE: 07-10-01
SCALE: NONE
DRAWN BY: M.H.
CHECKED BY:
SERIAL NO.:

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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PROJECT NO.

SHEET No. 3

DEPARTMENT OF
DIVISION OF ARCHITECTURE
OFFICE OF REGULATION SERVICES

FILE NO.
AC, P.V. F.L.S. SS, P.L.C.

DATE

BASED ON PC# 02-101837

