ASTM C636

SEISMIC DESIGN CATEGORY "A"

(NON FIRE RATED SUSPENDED ACOUSTICAL TILE CEILINGS;
FOR FIRE RATED ASSEMBLIES, REFER TO GENERAL SHEETS)

HANGERS
1. WHERE ACOUSTICAL CEILINGS ARE SUSPENDED FROM A STRUCTURE OF CONCRETE CONSTRUCTION, MOUNT HANGERS USING CAST-IN-PLACE HANGER WIRES, HANGER INSERTS, OR OTHER HANGER ATTACHMENT DEVICES WHOSE SUITABILITY HAS BEEN DEMONSTRATED BY STANDARD CONSTRUCTION PRACTICE OR CERTIFIED TEST DATE.
2. SPACE HANGERS FOR CARRYING CHANNELS OR MAIN RUNNERS 4'-0" O.C. MAX.
3. EACH SUSPENSION WIRE SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB UNLESS A COUNTERSLOPING WIRE OF HORIZONTAL BRACING IS PROVIDED. SEE DETAIL C1/A3.34 FOR ALLOWABLE COUNTERSLOPING METHODS.
4. WIRE HANGERS SHALL BE PREPARED FROM A MINIMUM OF NO. 12-GAUGE GALVANIZED, SOFT ANNEALED, MILD STEEL WIRE.

CARRYING CHANNELS
1. INSTALL THE CARRYING CHANNEL SO THAT THEY ARE ALL LEVEL TO WITHIN 1/8" IN 12'.
2. PERFORM LEVELING WITH THE SUPPORTING HANGERS TAUT TO PREVENT ANY SUBSEQUENT DOWNWARD MOVEMENT OF THE CARRYING CHANNELS WHEN THE CEILING LOADS ARE IMPOSED. LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING CARRYING CHANNELS.
3. IN INSTALLATIONS WHERE HANGER WIRES ARE WRAPPED AROUND CARRYING CHANNELS, THE WIRE LOOPS SHALL BE TIGHTLY FORMED TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOP.

MAIN RUNNERS
1. INSTALL MAIN RUNNERS SO THAT THEY ARE ALL LEVEL TO WITHIN 1/4" IN 10'.
2. WHERE MAIN RUNNERS ARE SUPPORTED DIRECTLY BY HANGERS, PERFORM LEVELING WITH THE SUPPORTING HANGER TAUT TO PREVENT ANY SUBSEQUENT DOWNWARD MOVEMENT OF THE MAIN RUNNERS WHEN THE CEILING LOADS ARE IMPOSED. LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.

MAIN RUNNERS (CONT)
3. IN INSTALLATIONS WHERE HANGER WIRES ARE WRAPPED THROUGH OR AROUND MAIN RUNNERS, THE WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS. THE WIRE MUST BE WRAPPED AROUND ITSELF A MINIMUM OF THREE FULL TURNS (360° EACH) WITHIN A 3" LENGTH. FOR SAFETY PURPOSES, THE BOTTOM OF THE HANGER WIRES SHALL EITHER BE CUT CLOSE TO THE VERTICAL PORTION OF THE WIRE OR SHALL BE BENT UPWARDS PARALLEL TO THE VERTICAL PORTION OF THE HANGER WIRE. REFER TO ADJACENT DETAILS.

CROSS RUNNERS
1. INSTALL CROSS RUNNERS SUPPORTED BY EITHER MAIN RUNNERS OR BY OTHER CROSS-RUNNERS TO WITHIN 1/32" OF THE REQUIRED CENTER DISTANCES. THIS TOLERANCE SHALL BE NON-CUMULATIVE BEYOND 12'.
2. INTERSECTING RUNNERS SHALL FORM A RIGHT ANGLE.
3. THE EXPOSED SURFACES OF TWO INTERSECTING RUNNERS SHALL LIE WITHIN A VERTICAL DISTANCE OF 0.010" OF EACH OTHER WITH THE ABUTTING CROSS MEMBER ALWAYS ABOVE THE CONTINUOUS (MAIN) MEMBER.
4. SPLINES: SPLINES USED TO FORM A CONCEALED MECHANICAL JOINT SEAL BETWEEN ADJACENT TILES SHALL BE COMPATIBLE WITH THE TILE KERF DESIGN SO THAT THE ADJACENT TILE WILL BE HORIZONTAL WHEN INSTALLED.

ASSEMBLY DEVICES
1. JOIN ABUTTING SECTIONS OF MAIN RUNNER BY MEANS OF SUITABLE CONNECTIONS SUCH AS SPLICES, INTERLOCKING ENDS, TAB LOCKS, PIN LOCKS, AND SO FORTH. A JOINT CONNECTION SHALL BE JUDGED SUITABLE BOTH BEFORE AND AFTER CEILING LOADS ARE IMPOSED IF THE JOINT PROVIDES SUFFICIENT ALIGNMENT SO THAT THE EXPOSED SURFACES OF TWO ABUTTING MAIN RUNNERS LIE WITHIN A VERTICAL DISTANCE OF 0.010" OF EACH OTHER AND WITHIN A HORIZONTAL DISTANCE OF 0.010" OF EACH OTHER.
2. THERE SHALL BE NO VISUALLY APPARENT ANGULAR DISPLACEMENT OF THE LONGITUDINAL AXIS OF ONE RUNNER WITH RESPECT TO THE OTHER.
3. ASSEMBLY DEVICES SHALL PROVIDE SUFFICIENT SPACING CONTROL SO THAT HORIZONTAL GAPS BETWEEN EXPOSED SURFACES OF EITHER ABUTTING OR INTERSECTING MEMBERS SHALL NOT EXCEED 0.02".

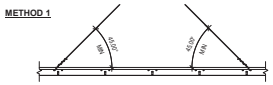
ASSEMBLY DEVICES (CONT)
4. SPRING WIRE CLIPS USED FOR SUPPORTING MAIN RUNNERS SHALL MAINTAIN TIGHT CONTACT BETWEEN THE MAIN RUNNERS AND THE CARRYING CHANNELS WHEN THE CEILING LOADS ARE IMPOSED ON THE RUNNERS.

CEILING FEATURES
1. MOUNT FIXTURES INSTALLED IN ACOUSTICAL TILE OR LAY-IN PANEL CEILINGS IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
2. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURE CAUSES THE TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM. IN SUCH CASES, THE FIXTURE LOAD SHALL BE SUPPORTED BY SUPPLEMENTAL HANGERS WITHIN 6" OF EACH CORNER, OR THE FIXTURE SHALL BE SEPARATELY SUPPORTED.
3. FIXTURES SHALL NOT BE INSTALLED SO THAT MAIN RUNNERS OR CROSS RUNNERS WILL BE ECCENTRICALLY LOADED EXCEPT WHERE PROVISION IS INHERENT IN THE SYSTEM (OR IS SEPARATELY PROVIDED FOR) TO PREVENT UNDESIRABLE SECTION ROTATION OR DISPLACEMENT, OR BOTH. IN ANY CASE, RUNNERS SUPPORTING CEILING FIXTURES SHALL NOT ROTATE MORE THAN 2° AFTER THE FIXTURE LOADS ARE IMPOSED.
4. WHERE FIXTURE INSTALLATION WOULD PRODUCE ROTATION OF RUNNERS IN EXCESS OF 2°, INSTALL FIXTURES WITH THE USE OF SUITABLE ACCESSORY DEVICES. THESE DEVICES SHALL SUPPORT THE FIXTURE IN SUCH A MANNER THAT MAIN RUNNERS AND CROSS RUNNERS WILL BE LOADED SYMMETRICALLY RATHER THAN ECCENTRICALLY.

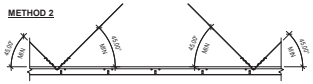
INTERFERENCE
1. PRIOR TO THE BEGINNING OF CEILING WORK AT A CONSTRUCTION SITE, THE CEILING CONTRACTOR AND OTHER CONTRACTORS WHOSE WORK IS RELATED TO THE CEILING INSTALLATION SHALL DESIGNATE ALL AREAS OF POTENTIAL INTERFERENCE BETWEEN CEILING COMPONENTS AND COMPONENTS FROM OTHER TRADES.
2. ALL AREAS OF INTERFERENCE THAT ARISE FOLLOWING THE BEGINNING OF CEILING CONSTRUCTION SHALL BE REPORTED BY THE CONTRACTORS INVOLVED TO THE GENERAL CONTRACTOR, WHO SHOULD THEN REPORT TO THE ARCHITECT, AS SOON AS THE INTERFERENCE IS OBSERVED.

COUNTERSLOPING DETAILS

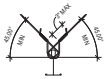
METHOD 1



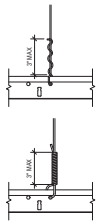
METHOD 2



METHOD 3

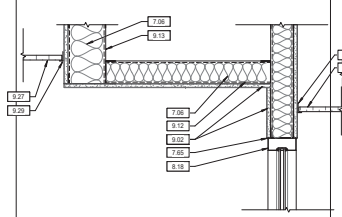


WIRE DETAILS

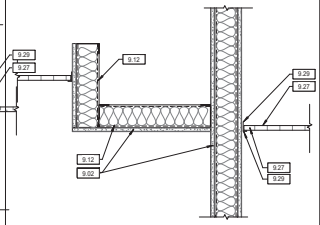


DRAWING NOTES

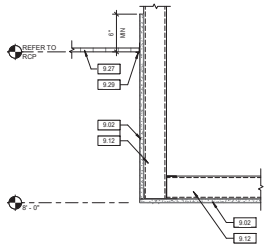
3.28	TILT-UP CONCRETE PANELS; REFER TO ARCHITECTURAL DETAILS FOR PROFILES; REFER TO STRUCTURAL DRAWINGS FOR TYPE AND REINFORCEMENT.
7.06	BATT INSULATION; REFER TO SPECIFICATIONS FOR R-VALUE.
7.65	SEALANT, CONTINUOUS BEAD.
8.18	ALUMINUM STOREFRONT SYSTEM; REFER TO STOREFRONT ELEVATIONS.
9.02	5/8" GYPSUM WALL BOARD.
9.12	3-5/8" METAL STUD FRAMING SYSTEM.
9.13	6" METAL STUD FRAMING SYSTEM.
9.27	ACOUSTICAL CEILING TILE; REFER TO FINISH SCHEDULE.
9.29	CEILING SUSPENSION ASSEMBLY.
9.45	CORNER BEAD.
10.30	PREMANUFACTURED/PREFINISHED METAL CANOPY SYSTEM WITH WALL TIE RODS; REFER TO APPLICABLE STRUCTURAL DRAWINGS.



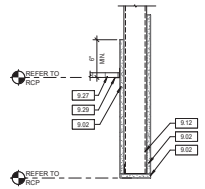
A1 / A310 — **SD_5.0.1_SOFFIT AT METAL STUD**
1 1/2" = 1'-0"



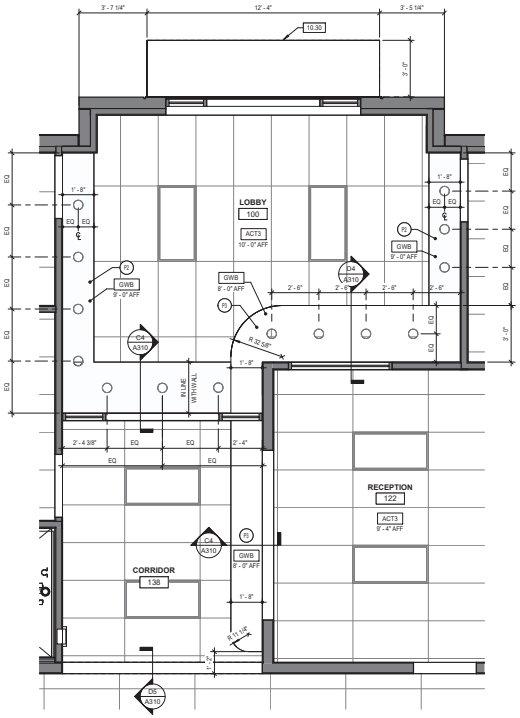
D3 / A310 — **SD_2.0.1_SOFFIT DETAIL**
1 1/2" = 1'-0"



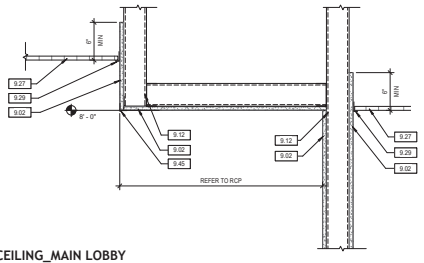
D4 / A310 — **CLG_GWB TO ACT TYP.**
1 1/2" = 1'-0"



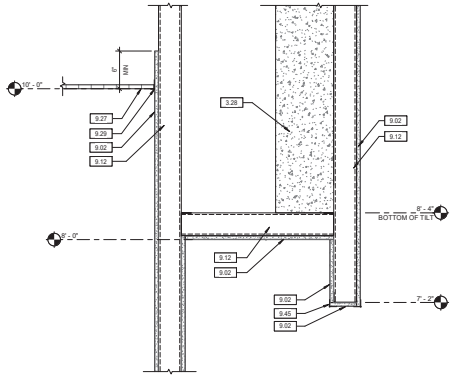
D5 / A310 — **CLG_BULKHEAD (ACT)**
1 1/2" = 1'-0"



A1 / A310 — **RCP_LEVEL 1_MAIN LOBBY**
3/8" = 1'-0"



C4 / A310 — **DS_CEILING_MAIN LOBBY**
1 1/2" = 1'-0"



A4 / A310 — **DS_CEILING_GYM FOUNTAINS**
1 1/2" = 1'-0"

MUSSMAN ARCHITECTS
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CORAL BAY LOGO

STATE OF FLORIDA — REGISTERED ARCHITECT — AR95981 — SEAL

SEAL DATE: 10.07.2022

TREASURE COAST CLASSICAL ACADEMY

TCCA HIGH SCHOOL BUILDING

1400 SE COVE RD
STUART FLORIDA 34997

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
0	10.07.22	Permit Submittal	MG

PRINCIPAL IN CHARGE: PM
PROJECT ARCHITECT: MG
DRAWN BY: MEG, MH

SHEET TITLE:
ENLARGED CEILING PLANS & DETAILS

SHEET NO. A310
PROJ. NO. 022004

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