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3.2 ACOUSTICAL JOINT SEALANT

1. INSTALL ACOUSTICAL JOINT SEALANT AY FLOOR TRACK AND HEAD TRACK OF ALL STC-RATED ASSEMBLIES AND AT ALL OTHER PARTITIONS PROVIDED WITH SOUND ATTENUATION BLANKETS.
APPLICATION PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN TWO CONTINUOUS BEADS AT EACH STUD TRACK.

3.3 APPLYING AND FINISHING PANELS

A. COMPLY WITH ASTM C 840.

B. EXAMINE PANELS BEFORE INSTALLATION. REJECT PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED.

C. ISOLATE PERIMETER OF GYPSUM BOARD APPLIED TO NON-LOAD-BEARING PARTITIONS AT STRUCTURAL ABUTMENTS, EXCEPT FLOORS. PROVIDE 1/4- TO 1/2-INCH- WIDE SPACES AT THESE LOCATIONS AND TRIM EDGES WITH EDGE TRIM WHERE EDGES OF PANELS ARE EXPOSED. SEAL JOINTS BETWEEN EDGES AND ABUTTING STRUCTURAL SURFACES WITH ACOUSTICAL SEALANT.

D. INSTALL CORNER BEAD AND OTHER TRIM AT ALL EXTERNAL CORNERS AND EXPOSED EDGES WITH BACK FLANGES INTENDED FOR FASTENERS, ATTACH TO FRAMING WITH SAME FASTENERS USED FOR PANELS. OTHERWISE, ATTACH TRIM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

E. INSTALL CONTROL JOINTS AT LOCATIONS INDICATED ON DRAWINGS AND ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT, BUT IN NO CASE NOT LESS THAN THE FOLLOWING:

1. IN WALLS, PARTITIONS, AND CEILINGS SO THAT LINEAR DIMENSIONS BETWEEN CONTROL JOINTS SHALL NOT EXCEED 30 UNINTERRUPTED LINEAL FEET AND A TOTAL AREA BETWEEN CONTROL JOINTS OF NOT MORE THAN 900 SQUARE FEET.
2. WHEREVER A WALL OR CEILING TRAVERSES A CONSTRUCTION JOINT IN THE BUILDING STRUCTURE.

F. PREFILL OPEN JOINTS, ROUNDED OR BEVELED EDGES, AND DAMAGED SURFACE AREAS.

G. APPLY JOINT TAPE OVER GYPSUM BOARD JOINTS, EXCEPT FOR TRIM PRODUCTS SPECIFICALLY INDICATED AS NOT INTENDED TO RECEIVE TAPE.

1. AT WALLS WITH DESIGNATED STC RATINGS, TAPE AND FINISH EACH LAYER OF GYPSUM BOARD.

H. GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW AND ACCORDING TO ASTM C 840:

1. LEVEL 1: CEILING PLENUM AREAS, CONCEALED AREAS, AND WHERE INDICATED.
2. LEVEL 2: PANELS THAT ARE SUBSTRATE FOR TILE.
3. LEVEL 4: PANEL SURFACES THAT WILL BE EXPOSED TO VIEW UNLESS OTHERWISE INDICATED.
   1. PRIMER AND ITS APPLICATION TO SURFACES ARE SPECIFIED IN DIVISION 09 INTERIOR PAINTING.
5. LEVEL 5: WHERE INDICATED ON DRAWINGS.
   1. PRIMER AND ITS APPLICATION TO SURFACES ARE SPECIFIED IN DIVISION 09 INTERIOR PAINTING.

I. PROTECT ADJACENT SURFACES FROM DRYWALL COMPOUND AND TEXTURE FINISHES AND PROMPTLY REMOVE FROM FLOORS AND OTHER NON-DRYWALL SURFACES. REPAIR SURFACES STAINED, MARRED, OR OTHERWISE DAMAGED DURING DRYWALL APPLICATION.
J. REMOVE AND REPLACE PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED.

SECTION 09 2216 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

A. SECTION INCLUDES:
1. NON-LOAD-BEARING STEEL FRAMING SYSTEMS FOR INTERIOR GYPSUM BOARD ASSEMBLIES.
2. SUSPENSION SYSTEMS FOR INTERIOR GYPSUM CEILINGS AND SOFFITS.

1.2 ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. FIRE-TEST-RESPONSE CHARACTERISTICS: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED ACCORDING TO ASTM E 119.

B. STC-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED ACCORDING TO ASTM E 90 AND CLASSIFIED ACCORDING TO ASTM E 413.

2.2 FRAMING SYSTEMS

A. STEEL STUDS AND RUNNERS: ASTM C 645. USE EITHER STEEL STUDS AND RUNNERS OR DIMPLED STEEL STUDS AND RUNNERS OF EQUIVALENT MINIMUM BASE-METAL THICKNESS.
1. MINIMUM BASE-METAL THICKNESS: REFER TO SCHEDULE IN THIS SECTION UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. DEPTH: AS INDICATED ON DRAWINGS.

B. SLIP-TYPE HEAD JOINTS: WHERE INDICATED, PROVIDE THE FOLLOWING IN THICKNESS NOT LESS THAN INDICATED FOR STUDS AND IN WIDTH TO ACCOMMODATE DEPTH OF STUDS:
1. DEFLECTION TRACK: STEEL SHEET TOP RUNNER MANUFACTURED TO PREVENT CRACKING OF FINISHES DUE TO DEFLECTION OF STRUCTURE ABOVE.
   a. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
      1) DIETRICH METAL FRAMING; SLP-TRK SLOTTED DEFLECTION TRACK.

C. FIRESTOP TRACKS: MANUFACTURED TO ALLOW PARTITION HEADS TO EXPAND AND CONTRACT WITH MOVEMENT OF THE STRUCTURE WHILE MAINTAINING CONTINUITY OF FIRE-RESISTANCE-RATED ASSEMBLY INDICATED; IN THICKNESS NOT LESS THAN INDICATED FOR STUDS AND IN WIDTH TO ACCOMMODATE DEPTH OF STUDS.

D. FLAT STRAP AND BACKING PLATE: STEEL SHEET FOR BLOCKING AND BRACING IN LENGTH AND WIDTH INDICATED.
1. MINIMUM BASE-METAL THICKNESS: 0.018 INCH OR AS INDICATED.

E. COLD-ROLLED CHANNEL BRIDGING: STEEL, 0.053-INCH MINIMUM BASE-METAL THICKNESS, WITH MINIMUM 1/2-INCH WIDE FLANGES.
1. DEPTH: 1-1/2 INCHES OR AS INDICATED.
2. CLIP ANGLE: NOT LESS THAN 1-1/2 BY 1-1/2 INCHES 0.068-INCH THICK, GALVANIZED STEEL.

F. HAT-SHAPED, RIGID FURRING CHANNELS: ASTM C 645.
1. MINIMUM BASE-METAL THICKNESS: 0.018 INCH.
2. DEPTH: 1-1/2 INCHES OR AS INDICATED.

G. COLD-ROLLED FURRING CHANNELS: 0.053-INCH UNCOATED-STEEL THICKNESS, WITH MINIMUM 1/2-INCH WIDE FLANGES.
1. DEPTH: 3/4 INCH OR AS INDICATED .
2. FURRING BRACKETS: ADJUSTABLE, CORRUGATED-EDGE TYPE OF STEEL SHEET WITH MINIMUM UNCOATED-STEEL THICKNESS OF 0.033 INCH (0.8 MM).
3. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.062-INCH- DIAMETER WIRE, OR DOUBLE STRAND OF 0.048-INCH DIAMETER WIRE.

H. Z-SHAPED FURRING: WITH SLOTTED OR NONSLOTTED WEB, FACE FLANGE OF 1-1/4 INCHES OR AS INDICATED , WALL ATTACHMENT FLANGE OF 7/8 INCH, MINIMUM UNCOATED-METAL THICKNESS OF 0.018 INCH, AND DEPTH REQUIRED TO FIT INSULATION THICKNESS INDICATED.

2.3 SUSPENSION SYSTEMS

A. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.062-INCH- DIAMETER WIRE, OR DOUBLE STRAND OF 0.048-INCH DIAMETER WIRE.

B. WIRE HANGERS: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.16 INCH IN DIAMETER.

C. CARRYING CHANNELS: COLD-ROLLED, COMMERCIAL-STEEL SHEET WITH A BASE-METAL THICKNESS OF 0.053 INCH AND MINIMUM 1/2-INCH WIDE FLANGES.
1. DEPTH: 1-1/2 INCHES OR AS INDICATED.

D. FURRING CHANNELS (FURRING MEMBERS):
1. COLD-ROLLED CHANNELS: 0.053-INCH UNCOATED-STEEL THICKNESS, WITH MINIMUM 1/2-INCH- WIDE FLANGES, 3/4 INCH DEEP.

2.4 AUXILIARY MATERIALS

A. FASTENERS FOR METAL FRAMING: OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES REQUIRED TO FASTEN STEEL MEMBERS TO SUBSTRATES.

B. SOUND ATTENUATION BLANKETS: AS SPECIFIED IN DIVISION 09 SECTION “GYPSUM BOARD”.

C. ACOUSTICAL JOINT SEALANT: AS SPECIFIED IN DIVISION 07 SECTION "JOINT SEALANTS”.

D. THERMAL INSULATION: AS SPECIFIED IN DIVISION 07 SECTION “THERMAL INSULATION”.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. INSTALLATION STANDARD: ASTM C 754.
1. GYPSUM BOARD ASSEMBLIES: ALSO COMPLY WITH REQUIREMENTS IN ASTM C 840 THAT APPLY TO FRAMING INSTALLATION.

B. INSTALL SUPPLEMENTARY FRAMING, AND BLOCKING TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, FURNISHINGS, OR SIMILAR CONSTRUCTION.

C. INSTALL BRACING AT TERMINATIONS IN ASSEMBLIES.

D. DO NOT BRIDGE BUILDING CONTROL AND EXPANSION JOINTS WITH NON-LOAD-BEARING STEEL FRAMING MEMBERS. FRAME BOTH SIDES OF JOINTS INDEPENDENTLY.

3.2 INSTALLING FRAMED ASSEMBLIES

A. INSTALL FRAMING SYSTEM COMPONENTS ACCORDING TO SPACINGS INDICATED, BUT NOT GREATER THAN SPACINGS REQUIRED BY REFERENCED INSTALLATION STANDARDS FOR ASSEMBLY TYPES.

B. INSTALL STUDS SO FLANGES WITHIN FRAMING SYSTEM POINT IN SAME DIRECTION.

C. INSTALL TRACKS (RUNNERS) AT FLOORS AND OVERHEAD SUPPORTS. EXTEND FRAMING FULL HEIGHT TO STRUCTURAL SUPPORTS OR SUBSTRATES ABOVE SUSPENDED CEILINGS, EXCEPT WHERE PARTITIONS ARE INDICATED TO TERMINATE AT SUSPENDED CEILINGS. CONTINUE FRAMING AROUND DUCTS PENETRATING PARTITIONS ABOVE CEILING.
1. SLIP-TYPE HEAD JOINTS: WHERE FRAMING EXTENDS TO OVERHEAD STRUCTURAL SUPPORTS, INSTALL TO PRODUCE JOINTS AT TOPS OF FRAMING SYSTEMS THAT PREVENT AXIAL LOADING OF FINISHED ASSEMBLIES.
2. DOOR OPENINGS: SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAMES; INSTALL RUNNER TRACK SECTION (FOR CRIPPLE STUDS) AT HEAD AND SECURE TO JAMB STUDS.
   a. INSTALL TWO STUDS AT EACH JAMB UNLESS OTHERWISE INDICATED.
   b. INSTALL CRIPPLE STUDS AT HEAD ADJACENT TO EACH JAMB STUD, WITH A MINIMUM 1/2-INCH CLEARANCE FROM JAMB STUD TO ALLOW FOR INSTALLATION OF CONTROL JOINT IN FINISHED ASSEMBLY.
   c. EXTEND JAMB STUDS THROUGH SUSPENDED CEILINGS AND ATTACH TO UNDERSIDE OF OVERHEAD STRUCTURE.
3. OTHER FRAMED OPENINGS: FRAME OPENINGS OTHER THAN DOOR OPENINGS THE SAME AS REQUIRED FOR DOOR OPENINGS UNLESS OTHERWISE INDICATED. INSTALL FRAMING BELOW SILLS OF OPENINGS TO MATCH FRAMING REQUIRED ABOVE DOOR HEADS.
4. FIRE-RESISTANCE-RATED PARTITIONS: INSTALL FRAMING TO COMPLY WITH FIRE-RESISTANCE-RATED ASSEMBLY INDICATED AND SUPPORT CLOSURES AND TO MAKE PARTITIONS CONTINUOUS FROM FLOOR TO UNDERSIDE OF SOLID STRUCTURE.
   a. FIRESTOP TRACK: WHERE INDICATED, INSTALL TO MAINTAIN CONTINUITY OF FIRE-RESISTANCE-RATED ASSEMBLY INDICATED.
5. SOUND-RATED PARTITIONS: INSTALL FRAMING TO COMPLY WITH SOUND-RATED ASSEMBLY INDICATED.

D. DIRECT FURRING:
1. ATTACH TO CONCRETE OR MASONRY WITH STUB NAILS, SCREWS DESIGNED FOR MASONRY ATTACHMENT, OR POWDER-DRIVEN FASTENERS SPACED 24 INCHES O.C.

E. Z-FURRING MEMBERS:
1. ERECT INSULATION VERTICALLY AND HOLD IN PLACE WITH Z-FURRING MEMBERS SPACED 24 INCHES O.C.
2. EXCEPT AT EXTERIOR CORNERS, SECURELY ATTACH NARROW FLANGES OF FURRING MEMBERS TO WALL WITH CONCRETE STUB NAILS, SCREWS DESIGNED FOR MASONRY ATTACHMENT, OR POWDER-DRIVEN FASTENERS SPACED 24 INCHES (610 MM) O.C.
3. AT EXTERIOR CORNERS, ATTACH WIDE FLANGE OF FURRING MEMBERS TO WALL WITH SHORT FLANGE EXTENDING BEYOND CORNER; ON ADJACENT WALL SURFACE, SCREW-ATTACH SHORT FLANGE OF FURRING CHANNEL TO WEB OF ATTACHED CHANNEL. AT INTERIOR CORNERS, SPACE SECOND MEMBER NO MORE THAN 12 INCHES (305 MM) FROM CORNER AND CUT INSULATION TO FIT.

F. INSTALLATION TOLERANCE: INSTALL EACH FRAMING MEMBER SO FASTENING SURFACES VARY NOT MORE THAN 1/8 INCH FROM THE PLANE FORMED BY FACES OF ADJACENT FRAMING.

3.3 INSTALLING SUSPENSION SYSTEMS

A. INSTALL SUSPENSION SYSTEM COMPONENTS ACCORDING TO SPACINGS INDICATED, BUT NOT GREATER THAN SPACINGS REQUIRED BY REFERENCED INSTALLATION STANDARDS FOR ASSEMBLY TYPES.

B. ISOLATE SUSPENSION SYSTEMS FROM BUILDING STRUCTURE WHERE THEY ABUT OR ARE PENETRATED BY BUILDING STRUCTURE TO PREVENT TRANSFER OF LOADING IMPOSED BY STRUCTURAL MOVEMENT.

C. SUSPEND HANGERS FROM BUILDING STRUCTURE AS FOLLOWS:
1. INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURAL OR SUSPENSION SYSTEM.
   a. SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS AND OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.
2. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH LOCATIONS OF HANGERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN THE FORM OF TRAPEZES OR EQUIVALENT DEVICES.
3. DO NOT ATTACH HANGERS TO STEEL ROOF DECK.
4. DO NOT ATTACH HANGERS TO PERMANENT METAL FORMS. FURNISH CAST-IN-PLACE HANGER INSERTS THAT EXTEND THROUGH FORMS.
5. DO NOT ATTACH HANGERS TO ROLLED-IN HANGER TABS OF COMPOSITE STEEL FLOOR DECK.
6. DO NOT CONNECT OR SUSPEND STEEL FRAMING FROM DUCTS, PIPES, OR CONDUIT.

D. FIRE-RESISTANCE-RATED ASSEMBLIES: WIRE TIE FURRING CHANNELS TO SUPPORTS.

E. INSTALLATION TOLERANCES: INSTALL SUSPENSION SYSTEMS THAT ARE LEVEL TO WITHIN 1/8 INCH IN 12 FEET MEASURED LENGTHWISE ON EACH MEMBER THAT WILL RECEIVE FINISHES AND TRANSVERSELY BETWEEN PARALLEL MEMBERS THAT WILL RECEIVE FINISHES.

3.4 NON-STRUCTURAL STUD FRAMING SCHEDULE

A. UNLESS OTHERWISE NOTED ON DRAWINGS OR ELSEWHERE IN THESE SPECIFICATIONS, THE FOLLOWING SCHEDULE PROVIDES FOR MINIMUM GAUGE/SPAN BASED ON METAL STUDS AT THE INDICATED FLANGE WIDTH SPACED 16 INCHES O.C.

1-1/4" FLANGE

HEIGHT	1-5/8"	2-1/2"	3-5/8"	4"	6"	8"
8'-0"	22 GA.	25 GA.	25 GA.	25 GA.	22 GA.	18 GA.
10'-0"		22 GA.	25 GA.	25 GA.	22 GA.	18 GA.
12'-0"		20 GA.	25 GA.	25 GA.	22 GA.	18 GA.
14'-0"			22 GA.	22 GA.	22 GA.	18 GA.
16'-0"			18 GA.	22 GA.	22 GA.	18 GA.
18'-0"			16 GA.	18 GA.	22 GA.	18 GA.
20'-0"				16 GA.	22 GA.	18 GA.
22'-0"					22 GA.	18 GA.
24'-0"					18 GA.	18 GA.
26'-0"					18 GA.	18 GA.
28'-0"					14 GA.	18 GA.
30'-0"						18 GA.

1-5/8" FLANGE

HEIGHT	1-5/8"	2-1/2"	3-5/8"	4"	6"	8"
12'-0"			20 GA.	20 GA.	20 GA.	20 GA.
14'-0"			20 GA.	20 GA.	20 GA.	20 GA.
16'-0"			20 GA.	20 GA.	20 GA.	20 GA.
18'-0"			18 GA.	20 GA.	20 GA.	20 GA.
20'-0"			16 GA.	18 GA.	22 GA.	18 GA.
22'-0"			16 GA.	18 GA.	22 GA.	18 GA.
24'-0"				16 GA.	20 GA.	20 GA.
26'-0"					20 GA.	20 GA.
28'-0"					18 GA.	20 GA.
30'-0"					16 GA.	20 GA.

SECTION 09 3000 - CERAMIC TILE

1.1 SUBMITTALS

A. SAMPLES: PROVIDE A SAMPLE FOR EACH SPECIFIED TILE AND A 12 INCH x 12 INCH MOCK-UP OF CERAMIC TILE WITH SPECIFIED GROUT.

2.1 MATERIALS

A. TILE: PROVIDE SQUARE-EDGED FLAT TILE COMPLYING WITH SIZES, SHAPES AND CUSHIONED EDGE AS INDICATED ON DRAWINGS.

1. MANUFACTURERS AND COLORS: AS INDICATED ON DRAWINGS.

B. TRIM UNITS: PROVIDE TILE TRIM UNITS TO MATCH CHARACTERISTICS OF ADJOINING FLAT TILE.

C. SETTING MATERIALS:

1. LATEX-PORTLAND CEMENT MORTAR: ANSI A118.41.

D. GROUT: LATEX-PORTLAND CEMENT GROUT: ANSI A118.6. FACTORY-PREPARED MIXTURE OF PORTLAND CEMENT; DRY, REDISPERSABLE, ETHYLENE VINYL ACETATE ADDITIVE. UNSANDED GROUT MIXTURE FOR JOINTS 1/8 INCH AND NARROWER. SANDED GROUT MIXTURE FOR JOINTS WIDER THAN 1/8 INCH.

1. MANUFACTURERS AND COLORS: AS INDICATED ON DRAWINGS.

E. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS FOR INSTALLATIONS INDICATED.

F. CEMENTITIOUS BACKER BOARD: AS SPECIFIED IN GYPSUM BOARD ASSEMBLIES.

G. ELASTOMERIC SEALANTS: ELASTOMERIC SEALANTS OF BASE POLYMER AND CHARACTERISTICS INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 7, SECTION "JOINT SEALANTS."

1. ONE-PART MILDEW-RESISTANT SILICONE: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES NT, G, A, AND AS APPLICABLE TO NONPOROUS JOINT SUBSTRATES INDICATED O; FORMULATED WITH FUNGICIDE,INTENDED FOR IN-SERVICE EXPOSURES OF HIGH HUMIDITY AND EXTREME TEMPERATURES.

3.1 INSTALLATION

A. COMPLY WITH PARTS OF ANSI A108 SERIES OF TILE INSTALLATION STANDARDS IN "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO TYPES OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED IN CERAMIC TILE INSTALLATION SCHEDULES.

B. COMPLY WITH TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" INSTALLATION METHODS. CERAMIC TILE FLOOR INSTALLATION METHOD: TCA F113 (THIN-SET MORTAR BONDED TO CONCRETE SUBFLOOR).

C. EXTEND TILE WORK INTO RECESSES AND BEHIND EQUIPMENT AND FIXTURES TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS, UNLESS OTHERWISE INDICATED. TERMINATE WORK NEATLY AT OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.

D. JOINTING PATTERN: LAY TILE IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHEN ADJOINING TILES ON WALLS AND TRIM ARE THE SAME SIZE. LAY OUT TILE WORK AND CENTER TILE FIELDS IN BOTH DIRECTIONS ON EACH WALL AREA. ADJUST TO MINIMIZE TILE CUTTING. PROVIDE UNIFORM JOINT WIDTHS, UNLESS OTHERWISE INDICATED.

SECTION 09 5113 - ACOUSTICAL PANEL CEILINGS

2.1 ACOUSTICAL PANELS

A. ARMSTRONG "FINE FISSURED," SQUARE EDGE. SIZE AND COLOR AS INDICATED ON DRAWINGS.

2.2 METAL SUSPENSION SYSTEMS

A. ARMSTRONG PRELUDE PLUS XL 15/16 INCH EXPOSED TEE SYSTEM.

B. MATERIALS: PROVIDE COMPLETE SYSTEM, INCLUDING MANUFACTURER'S MOLDINGS, TRIM, AND ACCESSORIES.

1. GRID: INTERMEDIATE DUTY SYSTEM; STEEL EXPOSED TEE, NOMINAL 1 INCH WIDE; COMPLY WITH APPLICABLE ASTM C 635 REQUIREMENTS.

2. ACCESSORIES: STABILIZER BARS, TRIM, MOLDINGS, CLIPS, AND SPLICES. 6 INCH EDGE MOLDINGS: METAL CHANNEL WITH EXPOSED FLANGE TO MATCH GRID SYSTEM.

3. FINISHES: GALVANIZED STEEL WITH BAKED ENAMEL FINISH. COLOR/FINISH: AS INDICATED ON DRAWINGS.

2.3 SOUND ATTENUATION BOARD

A. SOUND ISOLATION COMPANY "SOUNDPROOF BARRIERS."

1. WEIGHT: 1 POUND PER SQUARE FOOT UNLESS OTHERWISE INDICATED.

2. TRANSMISSION LOSS FACTOR (SINGLE PASS): 1.0 POUND DENSITY. SOUND TRANSMISSION COEFFICIENT: 27.

3. LOCATION AS INDICATED ON DRAWINGS.

3.1 INSTALLATION

A. GENERAL: INSTALL ACOUSTICAL PANEL CEILINGS TO COMPLY WITH PUBLICATIONS REFERENCED BELOW PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND CISCA'S "CEILING SYSTEMS HANDBOOK." STANDARD FOR CEILING SUSPENSION SYSTEM INSTALLATIONS: COMPLY WITH ASTM C 636.

B. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS AND AS FOLLOWS:

1. INSTALL HANGERS PLUMB AND FREE FROM CONTACT WITH OBJECTS WITHIN CEILING PLENUM THAT ARE NOT PART OF SUPPORTING STRUCTURE OR OF CEILING SUSPENSION SYSTEM. ATTACHMENT TO DUCTS, PIPING, AND OTHER NON-STRUCTURAL MEMBERS IS PROHIBITED.

2. SPLAY HANGERS ONLY WHERE REQUIRED AND TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.

3. SPACE HANGERS NOT MORE THAN 48 INCHES O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS, UNLESS OTHERWISE INDICATED; AND PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.

C. SECURE BRACING WIRES TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS WITH A MINIMUM OF FOUR TIGHT TURNS. SUSPEND BRACING FROM BUILDING'S STRUCTURAL STEEL AS INDICATED AND AS REQUIRED FOR HANGERS, WITHOUT ATTACHING TO PERMANENT METAL FORMS, STEEL DECK, OR STEEL DECK TABS.

D. INSTALL EDGE MOLDINGS AND TRIM OF TYPE INDICATED AT PERIMETER OF ACOUSTICAL CEILING AREA AND WHERE NECESSARY TO CONCEAL EDGES OF ACOUSTICAL PANELS.

E. INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FITTED ACCURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOLDINGS. SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT, PRECISE FIT. INSTALL HOLD-DOWN CLIPS ON PANELS AS RECOMMENDED BY PANEL MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 09 6500 - RESILIENT FLOORING

2.1 MATERIALS

A. RESILIENT TILE:

1. MANUFACTURER AND COLOR: AS INDICATED ON DRAWINGS.

B. RUBBER WALL BASE:

1. MANUFACTURER AND COLOR: AS INDICATED ON DRAWINGS.

2. STYLE: 4 INCH TOELESS AT CARPET AND 4 INCH COVE WITH TOPSET TOE AT ALL OTHER AREAS.

3. TRANSITION PIECES: PREMOLDED INSIDE AND OUTSIDE CORNERS AND END CAPS. COLOR TO MATCH RUBBER WALL BASE.

3.4 RESILIENT ACCESSORY INSTALLATION

A. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES.

B. INSTALL RESILIENT FLOORING AND ACCESSORIES ACCORDING TO MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. ALLOW TIME FOR MATERIAL TO ACCLIMATE TO ROOM CONDITIONS BEFORE BEGINNING INSTALLATION.

C. INSTALL WALL BASE IN LENGTHS AS LONG AS PRACTICABLE WITHOUT GAPS AT SEAMS AND WITH TOPS OF ADJACENT PIECES ALIGNED.

SECTION 09 6813 - TILE CARPET

2.1 MATERIALS

A. GLUE-DOWN CARPET TILE: SHAW CONTRACT

1. COLOR/PATTERN: AS INDICATED ON DRAWINGS.

B. INSTALLATION ACCESSORIES:

1. CONCRETE-SLAB PRIMER: NON-STAINING TYPE AS RECOMMENDED BY THE CARPET MANUFACTURER.

2. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: AS RECOMMENDED BY THE CARPET MANUFACTURER.

3. ADHESIVES: WATER-RESISTANT, MILDEW-RESISTANT, NON-STAINING TYPE TO SUIT PRODUCTS AND SUBFLOOR CONDITIONS INDICATED AND TO COMPLY WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED CARPET AS RECOMMENDED BY THE CARPET MANUFACTURER. APPLY ADHESIVE IN SIX INCH BANDS AT ALL CROSS (BUTT) SEAMS.

3.1 PREPARATION

A. COMPLY WITH CARPET MANUFACTURER'S INSTALLATION RECOMMENDATIONS TO PREPARE SUBSTRATES INDICATED TO RECEIVE CARPET INSTALLATION.

1. LEVEL SUBFLOOR IN ALL DIRECTIONS. SAND OR GRIND PROTRUSIONS, BUMPS, AND RIDGES. PATCH AND REPAIR CRACKS AND ROUGH AREAS. FILL DEPRESSIONS.

   A. USE LEVELING AND PATCHING COMPOUNDS TO FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBFLOOR AS RECOMMENDED BY THE CARPET MANUFACTURER.

   B. CONCRETE-SUBFLOOR PREPARATION: APPLY CONCRETE-SLAB PRIMER, ACCORDING TO MANUFACTURER'S DIRECTIONS, WHERE RECOMMENDED BY THE CARPET MANUFACTURER.

B. REMOVE SUBFLOOR COATINGS, INCLUDING CURING COMPOUNDS, AND OTHER SUBSTANCES THAT ARE INCOMPATIBLE WITH ADHESIVES AND THAT CONTAIN SOAP, WAX, OIL OR SILICONE.

C. BROOM OR VACUUM CLEAN SUBFLOORS TO BE COVERED WITH CARPET. FOLLOWING CLEANING, EXAMINE SUBFLOORS FOR MOISTURE, ALKALINE SALTS, CARBONATIONS, OR DUST.

3.2 CARPET INSTALLATION

A. COMPLY WITH CARPET MANUFACTURER'S RECOMMENDATIONS FOR SEAM LOCATIONS AND DIRECTION OF CARPET; MAINTAIN UNIFORMITY OF CARPET DIRECTION AND LAY OF PILE. AT DOORWAYS, CENTER SEAMS, UNDER DOOR IN CLOSED POSITION. DO NOT BRIDGE BUILDING EXPANSION JOINTS WITH CONTINUOUS CARPET.

B. CUT AND FIT CARPET TO BUTT TIGHTLY TO VERTICAL SURFACES, PERMANENT FIXTURES, AND BUILT-IN FURNITURE INCLUDING CABINETS, PIPES, OUTLETS, EDGINGS, THRESHOLDS, AND NOSINGS. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET MANUFACTURER.

C. EXTEND CARPET INTO TOE SPACES, DOOR REVEALS, CLOSETS, OPEN-BOTTOMED OBSTRUCTIONS, REMOVABLE FLANGES, ALCOVES, AND SIMILAR OPENINGS.
D. QUARTER TURN CARPET TILES.

SECTION 09 9100 - PAINTING

1.1 WARRANTY

A. PROVIDE TWO YEAR WARRANTY AGAINST FADING AND FAILURES. WARRANTY SHALL COMMENCE FROM THE DAY OF OWNER OCCUPANCY. CONTRACTOR TO REPAINT SURFACES AS DIRECTED IF WARRANTY IS NOT ATTAINED WITHIN THE SPECIFIED PERIOD AT NO ADDITIONAL COST TO CNE.

2.1 MATERIALS

A. ACCEPTABLE MANUFACTURERS: ICI, PITTSBURGH PAINTS, PORTER PAINT, BENJAMIN MOORE, SHERWIN WILLIAMS, AND H&C.

B. MATERIAL COMPATIBILITY: PROVIDE BLOCK FILLERS, PRIMERS, UNDERCOATS, AND FINISH-COAT MATERIALS THAT ARE FROM THE SAME MANUFACTURER AS THE FINISH COATS AND COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

C. MATERIAL QUALITY: PROVIDE MANUFACTURER'S BEST-QUALITY PAINT MATERIAL OF THE VARIOUS COATING TYPES SPECIFIED. PAINT-MATERIAL CONTAINERS NOT DISPLAYING MANUFACTURER'S PRODUCT IDENTIFICATION WILL NOT BE ACCEPTABLE.

D. REGULATORY REQUIREMENTS:

1. SURFACE BURNING CHARACTERISTICS IN ACCORDANCE WITH ASTM E-84 FOR CLASS I OR A FINISH:

   A. FLAME SPREAD (NON-COMBUSTIBLE SURFACES): LESS THAN 25.

   B. SMOKE DENSITY (NON-COMBUSTIBLE SURFACES): LESS THAN 450.

2. PROVIDE PAINT AND COATING MATERIALS THAT CONFORM TO FEDERAL, STATE, AND LOCAL RESTRICTIONS FOR VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT.

3.1 PREPARATION AND APPLICATION

A. GENERAL: REMOVE HARDWARE AND HARDWARE ACCESSORIES, PLATES, MACHINED SURFACES, LIGHTING FIXTURES, AND SIMILAR ITEMS ALREADY INSTALLED THAT ARE NOT TO BE PAINTED. IF REMOVAL IS IMPOSSIBLE BECAUSE OF THE SIZE OR WEIGHT OF THE ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING.

B. SURFACE PREPARATION: CLEAN AND PREPARE SURFACES TO BE PAINTED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION AND AS SPECIFIED.

C. PAINT EACH SIDE OF EXTERIOR DOORS, FRAMES, AND COILING DOORS TO MATCH ADJACENT WALLS.

D. APPLY FIRST COAT TO SURFACES AS SOON AS PRACTICABLE AFTER PREPARATION AND BEFORE SUBSEQUENT SURFACE DETERIORATION.

1. DO NOT APPLY SUCCEEDING COATS UNTIL THE PREVIOUS COAT HAS CURED AS RECOMMENDED BY THE MANUFACTURER.

2. OMIT PRIMER ON METAL SURFACEES THAT HAVE BEEN SHOP PRIMED AND TOUCHUP PAINTED.

3. IF UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT, APPLY ADDITIONAL COATS UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR, AND APPEARANCE. GIVE SPECIAL ATTENTION TO ENSURE EDGES, CORNERS, CREVICES, WELDS, AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES.

E. FOG PAINT: USE SPRAY EQUIPMENT FOR APPLICATION OF PAINT AT LOCATIONS INDICATED ON DRAWINGS. USE AIRLESS SPRAY EQUIPMENT WITH ORFICE SIZE AS RECOMMENDED BY THE MANUFACTURER. COLOR: AS INDICATED ON DRAWINGS.

F. MINIMUM COATING THICKNESS: APPLY PAINT MATERIALS NO THINNER THAN MANUFACTURER'S RECOMMENDED SPREADING RATE. PROVIDE THE TOTAL DRY FILM THICKNESS OF THE ENTIRE SYSTEM AS RECOMMENDED BY THE MANUFACTURER AND AS SPECIFIED.

G. PRIME COATS: BEFORE APPLYING FINISH COATS, APPLY A PRIME COAT OF MATERIAL, AS RECOMMENDED BY MANUFACTURER, TO MATERIAL THAT IS REQUIRED TO BE PAINTED OR FINISHED AND THAT HAS NOT BEEN PRIME COATED BY OTHERS. RECOAT PRIMED AND SEALED SURFACES WHERE EVIDENCE OF SUCTION SPOTS OR UNSEALED AREAS IN FIRST COAT APPEARS, TO ENSURE A FINISH COAT WITH NO BURN THROUGH OR OTHER DEFECTS DUE TO INSUFFICIENT SEALING.

H. ALL UTILITY DROPS WITHIN 12 INCHES OF A PAINTED VERTICAL SURFACE SHALL BE PAINTED TO MATCH SURFACE.

3.2 EXTERIOR FINISH SCHEDULE

A. FERROUS METAL:

1. FIRST COAT: RUST INHIBITIVE STEEL PRIMER.

2. SECOND COAT: SATIN DTM INDUSTRIAL ENAMEL.

B. GALVANIZED METAL:

1. CLEARCO ZINC RICH PRIMER.

3.3 INTERIOR FINISH SCHEDULE

A. FERROUS METAL:

1. FIRST COAT: RUST INHIBITIVE STEEL PRIMER.

2. SECOND COAT: SATIN DTM INDUSTRIAL ENAMEL.

B. GYPSUM BOARD WALLS:

1. FIRST COAT: LATEX PRIMER SEALER.

2. SECOND COAT: INTERIOR ENAMEL EGGSHELL LATEX.

C. GYPSUM BOARD WALLS AT RESTROOMS:

1. FIRST COAT: LATEX PRIMER SEALER.

2. SECOND COAT: INTERIOR ENAMEL SEMI-GLOSS ACRYLIC LATEX.

D. GYPSUM BOARD CEILINGS:

1. FIRST COAT: LATEX PRIMER SEALER.

2. SECOND COAT: INTERIOR WALL FLAT LATEX.

E. OVERHEAD STRUCTURAL STEEL AND DECKING:

1. FIRST COAT: ACRYLIC DRY FOG, WATER-BASED.

F. DOOR FRAMES:

1. GLOSS FINISH.

SECTION 10 2113 – TOILET COMPARTMENTS

2.1 PRODUCTS

A. TOILET COMPARTMENTS INCLUDING URINAL SCREENS SHALL BE:

1. ONE INCH THICK POLYETHLENE (HDPE).

2. COLOR: BLACK

3. LATCH: PROVIDE SURFACE MOUNTED SLIDE LATCH WITH IN-SWING AND/OR OUT-SWING BUMPER KEEPER TO MEET ADA REQUIREMENTS.

B. INSTALLATION

1. TOILET-ENCLOSURE STYLE: OVERHEAD BRACED, FLOOR ANCHORED.

2. URINAL SCREEN STYLE: WALL HUNG

3. OVERHEAD BRACING: MANUFACTURER'S STANDARD CONTINUOUS, EXTRUDED-ALUMINUM HEAD RAIL WITH ANTIGRIP PROFILE AND IN MANUFACTURER'S STANDARD FINISH.

C. ACCEPTABLE MANUFACTURER'S:

1. BRADLEY CORP, ACCURATE PARTITIONS CORP, AMERICAN SANITARY PARTITION CORP, KNICKERBOCKER PARTITION CORP OR APPROVED EQUAL.

D. ACCESSORIES: AS SCHEDULED ON DRAWINGS.

E. GRAB BAR AND SEAT SHALL WITHSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT.

F. PROVIDE 1-1/2 INCH CLEARANCE BETWEEN GRAB BARS AND WALL.

3.1 INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 10 2800 – TOILET ACCESSORIES

2.1 PRODUCTS

A. GRAB BARS:

1.
   1. BOBRICK B-5806.99 X 18, 36, AND 42.
   2. MOUNTING: FLANGES WITH CONCEALED FASTENERS.
   3. MATERIAL: TYPE 304 STAINLESS STEEL, 18 GAUGE.
      A. FINISH: SMOOTH, NO.4 (SATIN) ON ENDS AND SLIP-RESISTANT PEENED TEXTURE IN GRIP AREA.
   4. OUTSIDE DIAMETER: 1-1 / 4 INCHES.
   5. CONFIGURATION AND LENGTH: STRAIGHT, 18 INCHES LONG, 36 INCHES LONG, AND 42 INCHES LONG.

3.1 INSTALLATION

A. GRAB BARS: INSTALL TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBF, WHEN TESTED ACCORDING TO ASTM F 446.

SECTION 10 4413 FIRE EXTINGUISHER CABINETS

2.1 PRODUCTS

A. FIRE PROTECTION CABINETS

1. CABINET TYPE: SUITABLE FOR FIRE EXTINGUISHER.
   PRODUCTS:
   a. J.L. INDUSTRIES: ACADEMY SERIES SURFACE MOUNTED
   b. LARSEN'S MANUFACTURING COMPANY: ARCHITECTURAL SERIES SURFACE MOUNTED.
2. DOOR STYLE: VERTICAL DUO.

SECTION 10 4416 FIRE EXTINGUISHERS

2.1 PRODUCTS

A. PORTABLE, HAND CARRIED FIRE EXTINGUISHERS

1. PRODUCTS: PROVIDE LARSEN MP5 OR AN APPROVED EQUAL

2. MULTIPURPOSE DRY-CHEMICAL TYPE FIRE EXTINGUISHER: UL-RATED 2A-10BC, 5-POUND NOMINAL CAPACITY, WITH MONO AMMONIUM PHOSPHATE-BASED DRY CHEMICAL IN MANUFACTURER'S STANDARD ENAMELED CONTAINER.

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CNE INTERCHANGE PARK TENANT IMPROVEMENT

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