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SECTION 01 01 00 - SUMMARY OF WORK
PART 1 - THE PROJECT
1.1 WORK COVERED BY CONTRACT DOCUMENTS
A. The Project consists of H Wing Renovations - Phase One - The Ramapo College of New jersey
B. Owner: The Ramapo College of New Jersey
C. Description of Work: The project consists of demolition, alterations and renovations to Sound Recording and Control Room on the second floor of the H Wing located at Ramapo College of New Jersey.
1. Demolition shall include selective and general demolition as indicated in the Contract Documents.
D. All construction will be performed under a single prime contract. A separate contract will be issued to furnish and install all specified equipment. The Contractor is required to cooperate and coordinate with the College, vendors and other contractors during the course of construction.

1 .2 CONTRACTOR USE OF PREMISES
A. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the building beyond the areas in which the Work is indicated. Access to areas of the site outside the Contract Limit Lines shall be cleared with the College prior to commencement of work.
1. Owner Occupancy: Allow for Owner occupancy and use by the public in areas outside of contract limit.
2. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site. Coordinate with Owner regarding the locations for staging and storing of materials.
B. Use of the Existing Building: Maintain the existing building in a weathertight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.

1.3 OCCUPANCY REQUIREMENTS
A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate owner usage. Perform the Work so as not to interfere with the Owner's operations.
1 . The Architect will prepare a Certificate of Substantial Completion for the Work to be occupied prior to Owner occupancy.
2. Obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

2 1.4 OWNER-FURNISHED, CONTRACTOR-INSTALLED PRODUCTS
A. Owner will furnish products indicated. The Work includes receiving, unloading, handling, storing, protecting, and installing Owner-furnished products and making building services connections.
B. Owner-Furnished, Contractor-Installed Products:
1. Plug-in “jack-plate” connection panels between Audio Recording Production 208A and Audio Control Room 210 as indicated on Sheets A-1 and A-3.
1. Plug-in connection panels between Audio Recording Production 208A and Audio Control Room 210 as indicated on Sheets A-1 and A-3.
2. Two wall speaker mounts in Audio Recording Production 208A on either side of whiteboard as indicated on Sheet A-3.
3. Ceiling-mounted projector mount in Audio Recording Production 208A as indicated on Sheet A-2.
4. Acoustical absorptive panels in Audio Control Room 210 as indicated on Sheet A-3. See Section 09 84 13 - ACOUSTICAL WALL PANELS.

END OF SECTION 01 01 00

SECTION 01 04 50- CUTTING AND PATCHING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes administrative and procedural requirements for cutting and patching.

1.2 SUBMITTALS
A. Cutting and Patching Proposal: Submit a proposal describing procedures well in advance of the time cutting and patching will be performed. The Owner requires approval of these procedures before proceeding. Request approval to proceed. Include the following information, as applicable, in the proposal:
1. Describe the extent of cutting and patching required. Show how it will be performed and indicate why it cannot be avoided.
2. List products to be used and firms or entities that will perform Work.
2. Indicate dates when cutting and patching will be performed. *Provide* 1 *week prior notice and written confirmation three days prior* to *actual cutting or demolition.*
4. Utilities: List utilities that cutting and patching procedures will disturb or affect. List utilities that will be relocated and those that will be temporarily out-of-service. Indicate how long service will be disrupted.
5. Approval by the Architect to proceed with cutting and patching does not waive the Architect's right to later require complete removal and replacement of unsatisfactory work.

1 .3 QUALITY ASSURANCE
A. Requirements for Structural Work: Do not cut and patch structural elements in a manner that would change their load-carrying capacity or load-deflection ratio.
B. Operational Limitations: Do not cut and patch operating elements or related components in a manner that would result in reducing their capacity to perform as intended. Do not cut and patch operating elements or related components in a manner that would result in increased maintenance or decreased operational life or safety.
C. Visual Requirements: Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch construction in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.

1.4 WARRANTY
A. Existing Warranties: Replace, patch, and repair material and surfaces cut or damaged by methods and with materials in such a manner as not to void any warranties required or existing.

PART 2 - PRODUCTS
2.1 MATERIALS, GENERAL
A. Use materials identical to existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible if identical materials are unavailable or cannot be used. Use materials whose installed performance will equal or surpass that of existing materials.

PART 3 - EXECUTION
3.1 INSPECTION
A. Examine surfaces to be cut and patched and conditions under which cutting and patching is to be performed before cutting. If unsafe or unsatisfactory conditions are encountered, take corrective action before proceeding.

3.2 PREPARATION
A. Temporary Support: Provide temporary support of work to be cut.
B. Protection: Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of the Project that might be exposed during cutting and patching operations.
C. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

3.3 PERFORMANCE
A. General: Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
B. Cutting: Cut existing construction using methods least likely to damage elements retained or adjoining construction. Where possible, review proposed procedures with the original Installer; comply with the original Installer's recommendations.
C. Patching: Patch with durable seams that are as invisible as possible. Comply with specified tolerances.

3.4 CLEANING
A. Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar items. Thoroughly clean piping, conduit, and similar features before applying paint or other finishing materials. Restore damaged pipe covering to its original condition.

END OF SECTION 01 04 50

SECTION 01 20 00 - PROJECT MEETINGS
PART 1 - GENERAL
1.1 SUMMARY
A. This Section specifies administrative and procedural requirements for project meetings, including, but not limited to, the following:
1 . Preconstruction conferences.
2. Progress meetings.
3. Coordination meetings.

1.2 PRECONSTRUCTION CONFERENCE
A. Schedule a preconstruction conference before starting construction, at a time convenient to the Owner and the Architect, but no later than 15 days after execution of the Agreement.

1 .3 PROGRESS MEETINGS
A. Conduct progress meetings at the Project Site at regular intervals. Notify the Owner and the Architect of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request.
B. Agenda: Review and correct or approve minutes of the previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to the status of the Project.
1. Contractor's Construction Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Construction Schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to insure that current and subsequent activities will be completed within the Contract Time.
D. Reporting: No later than 5 days after each meeting, distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
1. Schedule Updating: Revise the Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.
1.4 COORDINATION MEETINGS
A. Conduct project coordination meetings at regular intervals convenient for all parties involved. Project coordination meetings are in addition to specific meetings held for other purposes, such as regular progress meetings and special preinstallation meetings.

END OF SECTION 01 20 00

SECTION 01 40 00 - QUALITY CONTROL
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes administrative and procedural requirements for quality-control services.
B. Quality-control services include inspections, tests, and related actions, including reports performed by Contractor, by independent agencies, and by governing authorities.
C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with Contract Document requirements.

1.2 RESPONSIBILITIES
A. Contractor Responsibilities: Unless otherwise indicated as the responsibility of another identified entity, Contractor shall provide inspections, tests, and other quality-control services specified elsewhere in the Contract Documents and required by authorities having jurisdiction. Costs for these services are included in the Contract Sum.
B. Retesting: The Contractor is responsible for retesting where results of inspections, tests, or other quality-control services prove unsatisfactory and indicate noncompliance with Contract Document requirements, regardless of whether the original test was Contractor's responsibility.
C. Associated Services: Cooperate with agencies performing required inspections, tests, and similar services, and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include, but are not limited to, the following:
D. Duties of the Testing Agency: The independent agency engaged to perform inspections, sampling, and testing of materials and construction specified in individual Sections shall cooperate with the Architect and the Contractor in performance of the agency's duties.

1 .3 SUBMITTALS
A. Unless the Contractor is responsible for this service, the independent testing agency shall submit a certified written report, in duplicate, of each inspection, test, or similar service to the Architect. If the Contractor is responsible for the service, submit a certified written report, in duplicate, of each inspection, test, or similar service through the Contractor.
1.4 QUALITY ASSURANCE
A. Qualifications for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, that are prequalified as complying with the American Council of Independent Laboratories' "Recommended Requirements for Independent Laboratory Qualification" and that specialize in the types of inspections and tests to be performed.

END OF SECTION 01 40 00

SECTION 06 10 50 - MISCELLANEOUS CARPENTRY
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes the following:
1 . Wood furring, grounds, nailers, and blocking.
2. Plywood sheathing.
2 3. Interior wood trim.
4. Metal display panel.
5. Wire Pass-through

1.2 SUBMITTALS
A. General: Submit product data for each type of factory-fabricated product and process specified.
B. Material test reports from a qualified independent testing agency indicating and interpreting test results relative to compliance of fire-retardant-treated wood products with requirements indicated.

PART 2 - PRODUCTS
2.1 LUMBER, GENERAL
A. Lumber Standards: Comply with DOC PS 20, "American Softwood Lumber Standard," and with applicable grading rules of inspection agencies certified by American Lumber Standards Committee's (ALSC) Board of Review.
B. Grade Stamps: Provide lumber with each piece factory marked with grade stamp of inspection agency evidencing compliance with grading rule requirements.

2.2 MISCELLANEOUS LUMBER
A. General: Provide lumber for support or attachment of other construction, including bucks, nailers, blocking, furring, grounds, stripping, and similar members.
B. Grade: For dimension lumber sizes, provide NO.3 or Standard grade lumber per ALSC's NGRs of any species.

2.3 FIRE -RETARDANT-TREATED MATERIALS
A. General: Where indicated, use materials impregnated with fire-retardant chemical formulations indicated by a pressure process or other means acceptable to authorities having jurisdiction to produce products with fire-test-response characteristics specified.
B. Fire-Retardant Chemicals: Use chemical formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants in solution to distinguish treated material from untreated material.
C. Fire-Retardant-Treated Lumber: Comply with the following:
1 . Low-Hygroscopic Formulation: Interior Type A per AWPA C20.
2. Kiln-dry material before and after treatment to levels required for untreated material.
3. Discard treated material that does not comply with requirements of referenced standards. Do not use twisted, warped, bowed, discolored, or otherwise damaged or defective material.

2.4 INTERIOR STANDING AND RUNNING TRIM
A. Softwood Trim: Provide Birch or Douglas Fir; Grade: C & Better.

2 2.5 METAL DISPLAY PANEL
A. Metal display board McNichols PerfPanl display panel or equal, meeting the following requirements:
1. Material: Stainless steel
2. Gauge: 20
3. Weight: 1.42 lbs. per square foot
4. Surface: Mill
5. Holes: ¼” holes on 1” centers. Indented
6. Edges: Smooth edges with no cut holes on any edge.

2.6 WIRE PASS-THROUGH
A. EZ-Path® Smoke & Acoustical Pathway manufactured by Specified Technologies Inc. or approved equal.
1. Face Dimensions: 4.5” (114 mm) x 4.5” (114 mm)
2. Through-wall Dimensions: adjustable to accommodate wall thicknesses between 4” (102 mm) and 8” (203 mm).
3. Shell Composition: V-0 High Impact ABS/PC Thermoplastic
4. Seal & Curtain: Flame Retardant Neoprene Rubber
5. Cable Loading Area: 6.7 in2 (43.2 cm2)

PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
A. Fit carpentry to other construction; scribe and cope as required for accurate fit.
B. Countersink nail heads on exposed carpentry work and fill holes with wood filler.
3.2 WOOD GROUNDS, NAILERS, BLOCKING, AND SLEEPERS
A. Install where shown and where required for attaching other work. Coordinate locations with other work involved.
B. Attach to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated.

3.3 WOOD TRIM INSTALLATION
A. Install with minimum number of joints practical. Use scarf joints for end-to-end joints.

3.4 PROTECTION
A. Provide final protection and maintain conditions that ensure finish carpentry is without damage or deterioration at the time of Substantial Completion.

END OF SECTION 06 10 50

2 **SECTION 06 05 60 DECORATIVE PLASTIC LAMINATE**
PART 1 - GENERAL
1.1 SUMMARY
A. This Section Includes:
1. Metal laminates for wall installation as indicated, including accessories and trim needed for a complete installation.

1.2 REFERENCES
A. Reference Standards: In addition to requirements, comply with applicable provisions of following for design, materials, fabrication, and installation of component parts:
1. NEMA LD3-2005.

1.3 SUBMITTALS
A. Product Data: Manufacturer's technical literature for decorative plastic laminate material, adhesive for bonding plastic laminate, miscellaneous accessories and related components.
2
B. Samples:
1. Decorative plastic laminates, 5 by 7 inches (125 by 175 mm), for each type, color, pattern, and surface finish with 1 sample applied to core material.

D. Informational Submittals: Submit following packaged separately from other submittals:
1. Manufacturer's written handling, storage and installation instructions.

1.4 QUALITY ASSURANCE
A. Fabricator/Installer Qualifications: Company specializing in fabricating and installing decorative plastic laminate finished work with a minimum 3 years experience.

B. Fire-Test-Response Characteristics: Provide decorative plastic laminate with the following surface burning characteristics as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.

1.5 DELIVERY, STORAGE AND HANDLING
A. Deliver, store, handle, and protect materials in accordance with manufacturer's written instructions.
1. Provide protective coverings of suitable material. Take special precautions at corners.

PART 2 - PRODUCTS

2.1 PRODUCTS AND MANUFACTURERS
A. Acceptable Manufacturer: Formica Corp., 10155 Reading Road, Cincinnati, OH. 45241 (513-786-3400).

2.2 MATERIALS AND COMPONENTS
A. METAL LAMINATE
1. Grade: Grade 36
2. Thickness: 0.027" ± 0.005" (0.685 mm ± 0.12mm), -
3. Sheet Size: 4 Foot x 8 Foot
4. Surface burning characteristics in accordance with ASTM E84.
5. Finish: 5393 Aluminum Encode
6. Colors and Patterns: DecoMetal

2.3 ACCESSORY MATERIALS
A. Adhesive for Bonding Plastic Laminate: Manufacturer's recommended adhesive for vertical gypsum wallboard substrate.

PART 3 - EXECUTION

3.1 EXAMINATION AND PREPARATION
A. Examine surfaces for conditions that would adversely affect decorative plastic laminate surfacing or edge performance.

3.2 INSTALLATION
A. General: Install decorative plastic laminate in accordance with manufacturer's written installation instructions, approved Submittals.

3.3 CLEANING AND PROTECTION
A. Cleaning:
1. Clean decorative plastic laminate surfaces in accordance with manufacturer's instructions.
B. Protection:
1. Do not permit construction near unprotected surfaces.

END OF SECTION 06 05 60

SECTION 07 27 00 - FIRESTOPPING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes firestopping for the following:
1. Penetrations through fire-resistance-rated walls and partitions including both empty openings and openings containing cables, pipes, ducts, conduits, and other penetrating items.
2. Sealant joints in fire-resistance-rated construction.

1.2 SYSTEM PERFORMANCE REQUIREMENTS
A. General: Provide firestopping systems that are produced and installed to resist the spread of fire, according to requirements indicated, and the passage of smoke and other gases.

1.3 SUBMITTALS
A. General: Submit Product data for each type of product to be used.

PART 2 - PRODUCTS
2.1 FIRESTOPPING, GENERAL
A. Compatibility: Provide firestopping composed of components that are compatible with each other, the substrates forming openings, and the items, if any, penetrating the firestopping under conditions of service.
B. Accessories: Provide components for each firestopping system that are needed to install fill materials.
1. Use only components specified by the firestopping manufacturer.

PART 3 - EXECUTION
3.1 INSTALLING THROUGH-PENETRATION FIRESTOPS
A. General: Comply with manufacturer's installation instructions and drawings pertaining to products and applications indicated.

3.2 INSTALLING FIRE-RESISTIVE JOINT SEALANTS
A. General: Comply with the sealant manufacturer's installation instructions.
B. Tool nonsag sealants immediately after sealant application and prior to the time skinning or curing begins.

3.3 CLEANING
A. Clean off excess fill materials with cleaning materials approved by manufacturers of firestopping products.
B. Protect firestopping during and after curing period from contact with contaminating substances or from damage.

END OF SECTION 07 27 00

SECTION 07 90 10 - JOINT SEALANTS
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes joint sealants for the following locations:
1. Interior joints in vertical surfaces and horizontal nontraffic surfaces.
2. Interior joints in horizontal traffic surfaces.

1.2 SYSTEM PERFORMANCE REQUIREMENTS
A. Provide joint sealants for interior applications that have been produced and installed to establish and maintain airtight continuous seals that are water resistant and cause no staining or deterioration of joint substrates.

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HOLZMAN MOSS BOTTINO ARCHITECTURE

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1 REVISION 2 - ISSUED FOR BID	10/6/2014

SPECIFICATIONS

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1.3 SUBMITTALS
A. General: Submit product data from manufacturers for each joint sealant product required.

PART 2 - PRODUCTS
2.1 MATERIALS, GENERAL
A. Compatibility: Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates.
B. Colors: Provide color of exposed joint sealants in compliance with selections made by Architect from manufacturer's full range of standard colors for products of type indicated.

2.2 ELASTOMERIC JOINT SEALANTS
A. Elastomeric Sealant Standard: Provide manufacturer's standard chemically curing elastomeric sealants that comply with ASTM C 920 and those requirements referencing ASTM C 920 classifications for Type, Grade, Class, and Uses.

2.3 LATEX JOINT SEALANTS
A. General: Provide manufacturer's standard one-part, non-sag, mildew-resistant, paintable latex sealant of formulation indicated that is recommended for exposed applications.

2.4 JOINT SEALANT BACKING
A. General: Provide sealant backings of material and type that are non-staining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer.

PART 3 - EXECUTION
3.1 PREPARATION
A. Surface Cleaning of joints: Clean out joints immediately before installing joint sealants to comply with recommendations of joint sealant manufacturer and the following requirements:

3.2 INSTALLATION OF JOINT SEALANTS
A. General: Comply with joint sealant manufacturer's printed installation instructions applicable to products and applications indicated.
B. Acoustical Sealant Application Standard: Comply with recommendations of ASTM C 919 for use of joint sealants in acoustical applications as applicable to materials, applications, and conditions indicated.

3.3 PROTECTION
A. Protect joint sealants during and after curing period from contact with contaminating substances or from damage resulting from construction operations or other causes.

END OF SECTION 07 90 10

SECTION 08 32 13 - SLIDING ALUMINUM-FRAMED GLASS DOORS
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes Heavy Commercial (HC) performance grade sliding aluminum-framed glass doors, including factory glazing, operating hardware and accessories designed for exterior applications (deflection limitation L/175).
1. Types of sliding aluminum-framed glass doors include:
a. Kawneer Series AA®3200 ISOWEB® Sliding Door

1.2 SUBMITTALS
A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of sliding aluminum-framed glass door indicated.
B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.
C. Samples of factory-applied color finishes including samples of hardware and accessories involving color selection.
D. Warranty: Special warranty specified in this Section.

1.3 QUALITY ASSURANCE
A. Manufacturer Qualifications: A manufacturer capable of fabricating sliding aluminum-framed glass doors that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.

1.4 PROJECT CONDITIONS
A. Field Measurements: Verify actual dimensions of sliding aluminum-framed glass door openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.5 WARRANTY
A. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Basis-of-Design Product:
1. Kawneer Company Inc.
2. Series AA®3200 ISOWEB®I Sliding Door
3. 6-3/4" (171.5 mm) frame depth
4. AW-PG 135-SD

2.2 MATERIALS
A. Aluminum Extrusions: Alloy and temper recommended by sliding aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and sash members.
B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with sliding aluminum-framed glass door members, trim hardware, anchors, and other components.
C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.
D. Sliding-Type Weather Stripping: Provide woven-pile weather stripping of wool, polypropylene, or nylon pile and resin-impregnated backing fabric. Comply with AAMA 701/702.
1. Weather Seals: Provide weather stripping with integral barrier fin or fins of semi-rigid, polypropylene sheet or polypropylene-coated material. Comply with AAMA 701/702.
A. Sealant: For sealants required within fabricated sliding door, provide sliding door manufacturer's standard, permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

2.2 SLIDING DOOR
A. Sound Transmission class (STC) and Outdoor-Indoor Transmission Class (OTIC): When tested in accordance with ASTM E90, the STC and OITC rating shall not be less than:
1. 38 (STC) and 33 (OITC).

2.3 GLAZING
A. Glass and Glazing System: Provide safety glazing on all panels both fixed and sliding.
B. Provide laminated clear glass assembly totaling 3/4" thick.
C. Glazing System: Glazing method shall be a channel type PVC gasket (marine glazed) which is compatible with aluminum and shall be resistant to deterioration by all forms of weathering and suitably retained to maintain a watertight seal between the glass and the surrounding frame.

2.4 HARDWARE
A. General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, or other corrosion-resistant material compatible with aluminum; designed to smoothly operate, tightly close, and securely lock sliding aluminum-framed glass doors.
B. Standard Hardware:
1. One pair of stainless steel tandem rollers per sliding panel.
2. Stainless steel roller track.
3. Pull handle exterior: "D" Pull
4. Pull handle interior: "D" Pull
C. Hardware: Manufactures standard flush pull, adjustable stainless steel or steel rollers and continuous EPDM closure strip at jamb.

2.5 FABRICATION
A. Fabricate sliding aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Master Frame: Joined together with butt type joints, neatly sealed and assembled by a minimum of 2 stainless steel fasteners per joint anchored into continuous integral screw raceways.
2. Sliding Panels: Shall have coped butt type joinery secured with stainless steel fasteners. Sliding panels shall not be removable when in a locked position
3. Fixed Panels: Shall have coped butt type joinery secured with stainless steel fasteners.
B. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.
C. Factory-Glazed Fabrication: Glaze sliding aluminum-framed glass doors in the factory where practical and possible for applications indicated. Comply with AAMA/WDMA/CSA 101/I.S.2/A440.

2.6 FINISHES, GENERAL
A. Comply with AAMA-AFPA "Anodic Finishes/Painted Aluminum" for recommendations for applying and designating finishes.
B. Appearance of Finished Work: Noticeable variations in the same piece are not acceptable.

2.7 ALUMINUM FINISHES
A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
B. Factory Finishing:
1. Kawneer Permanodic® AA-M10C22A31, AAMA 611, Architectural Class II Clear Anodic Coating (Color #17 Clear) (Standard).

PART 3 - EXECUTION
3.1 INSTALLATION
A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing sliding doors, hardware, accessories, and other components.
B. Install sliding doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
C. Set sill members in bed of sealant or with gaskets, as indicated, for weather tight construction.
D. Separate aluminum from dissimilar materials to prevent corrosion or electrolytic action at points of contact.

3.2 ADJUSTING, CLEANING, AND PROTECTION
A. Adjust operating sashes, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weather tight closure. Lubricate hardware and moving parts.
B. Clean aluminum surfaces immediately after installing sliding doors. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
C. Clean factory-glazed glass immediately after installing sliding doors. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
D. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
E. Protect sliding door surfaces from contact with contaminating substances resulting from construction operations. In addition, monitor window surfaces adjacent to and below exterior concrete and masonry surfaces during construction for presence of dirt, scum, mortar, alkaline deposits, stains, or other contaminants. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written recommendations.

END OF SECTION 08 32 13

SECTION 09 26 00 - GYPSUM BOARD ASSEMBLIES
PART 1 - GENERAL
1.1 SUMMARY
A. Provide gypsum drywall and accessories where shown on the Documents and as needed for a complete and proper installation.
B. Section Includes:
1 . Metal support systems.
2. Acoustic insulation.
3. Thermal insulation in conjunction with exterior wall furring.
4. Gypsum wallboard.
5. Reinforced gypsum wallboard.
6. Drywall finishing.

1.2 SUBMITTALS
A. General: Submit product data for each type of product specified.

PART 2 - PRODUCTS
2.1 FRAMING MATERIALS
A. General: Select size and gauge of framing members and establish spacing to comply with requirements of ASTM C 754 unless otherwise specifically indicated.
1. Maximum deflection: L/240 at 5 lbf per square foot.
B. Studs and Tracks: ASTM C 645, steel with protective coating.
1. Nominal depths: As indicated on the Drawings..
C. Furring Members: ASTM C 645, steel with protective coating.
1. C-shaped studs, in locations indicated.
D. Furring Fasteners/Connectors: Manufacturer's recommended system for specific application indicated, complying with ASTM C 754.

2.2 GYPSUM BOARD PRODUCTS
A. General: Provide gypsum board of types indicated in maximum lengths available that will minimize end-to-end butt joints in each area indicated to receive gypsum board application.
B. Gypsum Wallboard: ASTM C 36 and as follows:
1 . Type: Regular for vertical surfaces, unless otherwise indicated.
2. Type: Type X where required for fire-resistance-rated assemblies.
3. Type: Sag-resistant type for ceiling surfaces.
4. Edges: Tapered and featured (rounded or beveled) for prefilling.
5. Thickness: 5/8 inch (15.9 mm) unless otherwise indicated.

2.3 TRIM ACCESSORIES
A. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047 and requirements indicated below:
1 . Material: Formed metal or plastic, with metal complying with the following requirement:
a. Steel sheet zinc coated by hot-dip process or rolled zinc.
2. Shapes indicated below by reference to Fig. 1 designations in ASTM C 1047:
a. Cornerbead on outside corners, unless otherwise indicated.
b. L-bead with face flange only; face flange formed to receive joint compound. Use L-bead where indicated.

B. Drying-Type joint Compounds for Gypsum Board: Factory-packaged vinyl-based products complying with the following requirements for formulation and intended use.
1. Ready-Mixed Formulation: Factory-mixed product.
a. All-purpose compound formulated for both taping and topping compounds.
2. Job-Mixed Formulation: Powder product for mixing with water at Project site.
a. All-purpose compound formulated for both taping and topping compounds.

PART 3 - EXECUTION
3.1 APPLYING AND FINISHING GYPSUM BOARD
A. Gypsum Board Application and Finishing Standards: to comply with ASTM C 840 and GA-21 6.
B. Install sound-attenuation blankets, where indicated, prior to installing gypsum panels unless blankets are readily installed after panels have been installed on one side.
C. Install gypsum panels with face side out. Do not install imperfect, damaged, or damp panels. Butt panels together for a light contact at edges and ends with not more than 1/16 inch (1.5 mm) of open space between panels. Do not force into place.
D. Locate both edge or end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Avoid joints other than control joints at corners of framed openings where possible.
E. Attach gypsum panels to steel studs so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.2 FINISHING GYPSUM BOARD ASSEMBLIES
A. General: Treat gypsum board joints, interior angles, flanges of cornerbead, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for painting.
B. Levels of Gypsum Board Finish: Provide the following levels of gypsum board finish per GA-214:
1. Level 2 for gypsum board surfaces. Where Level 2 gypsum board finish is indicated, embed tape in joint compound and apply first coat of joint compound.

3.3 CLEANING AND PROTECTION
A. Promptly remove any residual joint compound from adjacent surfaces.
B. Provide final protection and maintain conditions, in a manner acceptable to installer, that insure gypsum board assemblies are without damage or deterioration at the time of Substantial Completion.

END OF SECTION 09 26 00

SECTION 09 65 10 - RESILIENT TILE FLOORING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes the following:
1. Vinyl composition floor tile.
2. Resilient wall base and accessories.

1.2 SUBMITTALS
A. Product Data: For each type of product specified.
B. Samples for Initial Selection:
1. Manufacturer's color charts consisting of units or section of units showing the full range of colors and patterns available for each type of product indicated.
2. Samples of full-size tiles of each different color and pattern of resilient floor tile specified, showing the full range of variations expected in these characteristics.
3. For resilient accessories, manufacturer's standard-size samples of each resilient accessory color and pattern specified.
C. Maintenance Data: For resilient floor tile.

1 .3 EXTRA MATERIALS
A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels describing contents.
1. Furnish not less than one box for each 50 boxes or fraction thereof, of each type, color, pattern, class, wearing surface, and size of resilient tile flooring installed.
2. Furnish not less than 10 linear feet for each 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient accessory installed.

PART 2 - PRODUCTS
2.1 RESILIENT TILE
2 A. "Migrations BBT with BioStride" as manufactured by Armstrong Commercial Flooring, or approved equal.
4. Overall Thickness 1/8 in. (3.2 mm);
2. Specification: ASTM F 1066 Class 2 - Through Pattern, ISO 10595, Type II
3. Tile Size 12 in. x 12 in. (305 mm x 305 mm)
4. Warranty: 5 years
2 5. Two colors as selected by Architect from manufacturer's full range of standard colors.
6. Two colors installed in pattern as shown on Sheet A-4. Cut tiles to dimensions shown on floor pattern drawing.

2.2 RESILIENT ACCESSORIES
A. Vinyl Wall Base: Products complying with FS SS-W-40, Type I.
1. Thermoset Rubber Wall Base as manufactured by Johnsonite, or approved equal.
a. Thickness
b. Height: 4"
c. Warranty: 2 years
d. Color as selected by Architect from manufacturer's full range of standard colors.

2.3 INSTALLATION ACCESSORIES
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by flooring manufacturer for applications indicated.

PART 3 - EXECUTION
3.1 PREPARATION
A. General: Comply with resilient product manufacturer's written installation instructions for preparing substrates indicated to receive resilient products.

3.2 TILE INSTALLATION
A. General: Comply with tile manufacturer's written installation instructions.
B. Layout tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half of a tile at perimeter.
1. Lay tiles square with room axis, unless otherwise indicated.
C. Match tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Cut tiles neatly around all fixtures. Discard broken, cracked, chipped, or deformed tiles.
D. Scribe, cut, and fit tiles to butt neatly and tightly to vertical surfaces and permanent fixtures, including built-in furniture, cabinets, pipes, outlets, edgings, door frames, thresholds, and nosings.
E. Extend tiles into toe spaces, door reveals, closets, and similar openings.
F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other nonpermanent, nonstaining marking device.
G. Adhere tiles to flooring substrates using a full spread of adhesive applied to substrate to comply with tile manufacturer's written instructions, including those for trowel notching, adhesive mixing, and adhesive open and working times.
1. Provide completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.3 RESILIENT ACCESSORY INSTALLATION
A. General: Install resilient accessories according to manufacturer's written installation Instructions.
B. Apply resilient wall base to walls and other permanent fixtures in rooms and areas where base is required.
1. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
C. Place resilient accessories so they are butted to adjacent materials and bond to substrates with adhesive. Install reducer strips at edges of flooring that would otherwise be exposed.

3.4 CLEANING AND PROTECTING
A. Perform the following operations immediately after installing resilient products:
1. Remove adhesive and other surface blemishes using cleaner recommended by resilient product manufacturers.
2. Sweep or vacuum floor thoroughly.
3. Do not wash floor until after time period recommended by flooring manufacturer.
4. Damp-mop floor to remove marks and soil.
B. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by flooring manufacturer.

END OF SECTION 09 65 10

SECTION 09 69 00 - CARPET TILE
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes carpet tile and installation.

1.2 SUBMITTALS
A. Product Data for each type of carpet tile material and installation accessory specified. Submit manufacturer's printed data on physical characteristics, durability, fade resistance, and fire-test-response characteristics. Submit methods of installation for existing substrate.
C. Shop Drawings showing columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tile. Indicate the following:
1 . Existing flooring materials to be removed.
2. Existing flooring materials to remain.
3. Carpet tile type, color, and dye lot.
4. Pattern type, location, and direction.
5. Pile direction.
6. Transition details to other flooring materials.
D. Samples:
1 . Full-size sample of each type of carpet tile required.
2. 1 2-inch (300-mm) Samples of each type of exposed edge stripping and accessory item.
E. Maintenance data for carpet tile to include:
1 . Methods for maintaining carpet tile, including manufacturer's recommended frequency for maintaining carpet tile.
2. Precautions for cleaning materials and methods that could be detrimental to finishes and performance. Include cleaning and stain-removal products and procedures.

1 .3 QUALITY ASSURANCE
A. Fire-Test-Response Characteristics: Provide carpet tile with the following fire-test response characteristics as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify carpet tile with appropriate markings of applicable testing and inspecting agency.
1. Surface Flammability: Passes CPSC 16 CFR, Part 1630.
2. Critical Radiant Flux Classification: Class I, not less than 0.45 W /sq. cm per ASTM E 648.
3. Critical Radiant Flux Classification: Class II, not less than 0.22 W /sq. cm per ASTM E 648.
4. Flame Spread: 25 or less per ASTM E 84.
5. Smoke Developed: 450 or less per ASTM E 84.

1 .4 DELIVERY, STORAGE, AND HANDLING
A. General: Comply with the Carpet and Rug Institute's CRI 104, Section 5: "Storage and Handling."
B. Deliver materials to Project site in original factory wrappings and containers, labeled with identification of manufacturer, brand name, and lot number.

1 .5 WARRANTY
A. Warranty Period: 10 years from date of Substantial Completion.

1.6 EXTRA MATERIALS
A. Furnish extra materials consisting of full-size units-equal to 10 percent (10%) of amount installed.

PART 2 - PRODUCTS
2.1 CARPET TILE
2 1. "Absorbed Tile" Style 5T003 as manufactured by Shaw Contract Group, or approved equal.
2. Size: 24" x 24"
3. Weight: 20 oz. 2
3. Warranty: Shaw Lifetime Commercial Limited
4. Color as selected by Architect from manufacturer's complete color range.

2.2 INSTALLATION ACCESSORIES
A. Trowelable Underlayments and Patching Compounds: As recommended by carpet tile manufacturer.
B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated and to comply with flammability requirements for installed carpet tile as recommended by carpet tile manufacturer.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine subfloors and conditions, with Installer present, for compliance with conditions affecting performance of carpet tile. Do not proceed with installation until unsatisfactory conditions have been corrected.
B. Verify that subfloors and conditions are satisfactory for carpet tile installation and comply with requirements of carpet tile manufacturer.

3.2 PREPARATION
A. General: Comply with carpet tile manufacturer's installation recommendations to prepare substrates indicated to receive carpet tile installation.
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 tile. Following cleaning, examine subfloors for moisture, alkaline salts, carbonation, or dust.

3.3 INSTALLATION
A. General: Comply with CRI 104, Section 13: "Carpet Modules (Tiles)."
C. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.
D. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

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SPECIFICATIONS

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