DIVISION I GENERAL REQUIREMENTS

I.I GENERAL CONDITIONS

- A. ALL WORK UNDER THIS CONTRACT TO BE IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT A201, 2007 EDITION OR OTHER APPROVED FORMAT B. WHERE ANY ARTICLE, PARAGRAPH, SUBPARAGRAPH OR CLAUSE OF THE GENERAL CONDITIONS IS MODIFIED OR DELETED BY THESE SUPPLEMENTS, THE UNALTERED PROVISIONS OF THAT ARTICLE, PARAGRAPH, SUBPARAGRAPH OR CLAUSE SHALL REMAIN IN EFFECT.
- 1.2 INTERPRETATION
- A. VIEWED OR APPROVED BY ARCHITECT/ENGINEER SHALL MEAN WRITTEN REVIEW OR APPROVAL BY ARCHITECT/ENGINEER OR AN AUTHORIZED CONSULTANT.
- B. REFERENCE IN THE SPECIFICATIONS TO A SINGLE ITEM OR PIECE OF EQUIPMENT SHALL APPLY TO AS MANY
- SUCH ITEMS AS ARE INDICATED ON DRAWINGS OR REQUIRED TO COMPLETE THE PROJECT. C. INDICATING AN ITEM OR METHOD ON THE DRAWINGS REQUIRES THE CONTRACTOR TO FURNISH, FABRICATE AND INSTALL THE ITEM, UNLESS INDICATED OTHERWISE.
- A. UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS, THE OWNER SHALL PAY FOR PLAN CHECK FEES AND BUILDING PERMIT FEES, INCLUDING SEWER, GAS AND WATER CONNECTION FEES, AS WELL AS OTHER ASSESSMENTS OR FEES ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR ALL OTHER PERMITS, FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, INCLUDING PLUMBING, MECHANICAL AND ELECTRICAL PERMIT FEES.
- A. SUBSTITUTION REQUESTS: SUBMIT ONE (I) DIGITAL COPY OF EACH REQUEST FOR CONSIDERATION. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.
- B. SUBSTITUTIONS FOR CAUSE: SUBMIT REQUESTS FOR SUBSTITUTION IMMEDIATELY UPON DISCOVERY OF NEED FOR CHANGE, BUT NOT LATER THAN 15 DAYS PRIOR TO TIME REQUIRED FOR PREPARATION AND REVIEW OF RELATED SUBMITTALS.
- C. SUBSTITUTIONS FOR CONVENIENCE: ARCHITECT WILL CONSIDER REQUESTS FOR SUBSTITUTION IF RECEIVED WITHIN 60 DAYS AFTER THE NOTICE OF AWARD.
- A. SHOP DRAWINGS: PREPARE PROJECT-SPECIFIC INFORMATION, DRAWN ACCURATELY TO SCALE. DO NOT BASE SHOP DRAWINGS ON REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR STANDARD PRINTED DATA, UNLESS SUBMITTAL BASED UPON ARCHITECT'S DIGITAL DATA DRAWING FILES IS OTHERWISE
- B. SAMPLES: SUBMIT SAMPLES FOR REVIEW OF KIND, COLOR, PATTERN, AND TEXTURE FOR A CHECK OF THESE CHARACTERISTICS WITH OTHER ELEMENTS AND FOR A COMPARISON OF THESE CHARACTERISTICS BETWEEN SUBMITTAL AND ACTUAL COMPONENT AS DELIVERED AND INSTALLED
- C. PRODUCT DATA: COLLECT INFORMATION INTO A SINGLE SUBMITTAL FOR EACH ELEMENT OF CONSTRUCTION AND TYPE OF PRODUCT OR EQUIPMENT.
- 1.6 DELEGATED-DESIGN SERVICES (DESIGN BUILD)
- A. PERFORMANCE AND DESIGN CRITERIA: WHERE PROFESSIONAL DESIGN SERVICES OR CERTIFICATIONS BY A DESIGN PROFESSIONAL ARE SPECIFICALLY REQUIRED OF CONTRACTOR BY THE CONTRACT DOCUMENTS, PROVIDE PRODUCTS AND SYSTEMS COMPLYING WITH SPECIFIC PERFORMANCE AND DESIGN CRITERIA
- B. DELEGATED-DESIGN SERVICES CERTIFICATION: IN ADDITION TO SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS, SUBMIT DIGITALLY-SIGNED PDF ELECTRONIC FILE AND THREE PAPER COPIES FOR EACH PRODUCT AND SYSTEM SPECIFICALLY ASSIGNED TO CONTRACTOR TO BE DESIGNED OR CERTIFIED BY A DESIGN PROFESSIONAL.
- C. INDICATE THAT PRODUCTS AND SYSTEMS COMPLY WITH PERFORMANCE AND DESIGN CRITERIA IN THE CONTRACT DOCUMENTS. INCLUDE LIST OF CODES, LOADS, AND OTHER FACTORS USED IN PERFORMING

1.7 EXECUTION REQUIREMENTS

- A. CUTTING AND PATCHING: COMPLY WITH REQUIREMENTS FOR AND LIMITATIONS ON CUTTING AND PATCHING OF CONSTRUCTION ELEMENTS.
- I. STRUCTURAL ELEMENTS: WHEN CUTTING AND PATCHING STRUCTURAL ELEMENTS, NOTIFY ARCHITECT OF LOCATIONS AND DETAILS OF CUTTING AND AWAIT DIRECTIONS FROM THE ARCHITECT BEFORE PROCEEDING. SHORE, BRACE, AND SUPPORT STRUCTURAL ELEMENT DURING CUTTING AND PATCHING. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR
- LOAD-CARRYING CAPACITY OR INCREASE DEFLECTION OPERATIONAL ELEMENTS: DO NOT CUT AND PATCH OPERATING ELEMENTS AND RELATED OMPONENTS IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED
- OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY. 3. OTHER CONSTRUCTION ELEMENTS: DO NOT CUT AND PATCH OTHER CONSTRUCTION ELEMENTS OR COMPONENTS IN A MANNER THAT COULD CHANGE THEIR LOAD-CARRYING CAPACITY, THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED, OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY.
- 4. VISUAL ELEMENTS: DO NOT CUT AND PATCH CONSTRUCTION IN A MANNER THAT RESULTS IN VISUAL EVIDENCE OF CUTTING AND PATCHING. DO NOT CUT AND PATCH EXPOSED CONSTRUCTION IN A MANNER THAT WOULD, IN ARCHITECT'S OPINION, REDUCE THE BUILDING'S AESTHETIC QUALITIES. REMOVE AND REPLACE CONSTRUCTION THAT HAS BEEN CUT AND PATCHED IN A VISUALLY UNSATISFACTORY MANNER.
- B. EXISTING CONDITIONS: THE EXISTENCE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING SITEWORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MECHANICAL AND ELECTRICAL SYSTEMS, AND OTHER CONSTRUCTION AFFECTING THE WORK.
- C. NOT USED
- D. NOT USED
- E. NOT USED
- F. TEMPORARY SUPPORT: PROVIDE TEMPORARY SUPPORT OF WORK TO BE CUT.
- G. PROTECTION: PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PROVIDE PROTECTION FROM ADVERSE WEATHER CONDITIONS FOR PORTIONS OF PROJECT THAT MIGHT BE EXPOSED DURING CUTTING AND PATCHING OPERATIONS.
- H. ADJACENT OCCUPIED AREAS: AVOID INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE TO ADJOINING AREAS.
- EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: WHERE EXISTING SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BYPASS SUCH SERVICES/SYSTEMS BEFORE CUTTING TO MINIMIZE INTERRUPTION TO OCCUPIED AREAS.
- CUTTING: CUT IN-PLACE CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS RETAINED OR ADJOINING CONSTRUCTION. IF POSSIBLE, REVIEW PROPOSED PROCEDURES WITH ORIGINAL INSTALLER; COMPLY WITH ORIGINAL INSTALLER'S WRITTEN RECOMMENDATIONS.
- K. PATCHING: PATCH CONSTRUCTION BY FILLING, REPAIRING, REFINISHING, CLOSING UP, AND SIMILAR OPERATIONS FOLLOWING PERFORMANCE OF OTHER WORK. PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS PRACTICABLE. PROVIDE MATERIALS AND COMPLY WITH INSTALLATION REQUIREMENTS SPECIFIED IN OTHER SECTIONS, WHERE APPLICABLE. FINISH PATCHWORK TO MATCH ADJACENT
- L. CLEANING: CLEAN PROJECT SITE AND WORK AREAS DAILY, INCLUDING COMMON AREAS. ENFORCE REQUIREMENTS STRICTLY. DISPOSE OF MATERIALS LAWFULLY.
- M. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE INSTALLED WORK IS WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

1.8 CLOSEOUT PROCEDURES

 SUMMARY A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR CONTRACT CLOSEOUT, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

CONDITION'S FINISH, TEXTURE, SHEEN AND COLOR UNLESS NOTED OTHERWISE.

- a. SUBSTANTIAL COMPLETION PROCEDURES.
- b. FINAL COMPLETION PROCEDURES.
- c. WARRANTIES.
- d. FINAL CLEANING. 2. SUBSTANTIAL COMPLETION
- A. PRELIMINARY PROCEDURES: BEFORE REQUESTING INSPECTION FOR DETERMINING DATE OF SUBSTANTIAL COMPLETION, COMPLETE THE FOLLOWING. LIST ITEMS BELOW THAT ARE
 - a. PREPARE A LIST OF ITEMS TO BE COMPLETED AND CORRECTED (PUNCH LIST), THE

- VALUE OF ITEMS ON THE LIST, AND REASONS WHY THE WORK IS NOT COMPLETE. b. ADVISE OWNER'S REPRESENTATIVE OF PENDING INSURANCE CHANGEOVER
- REQUIREMENTS. c. SUBMIT SPECIFIC WARRANTIES, WORKMANSHIP BONDS, MAINTENANCE SERVICE
- AGREEMENTS, FINAL CERTIFICATIONS, AND SIMILAR DOCUMENTS. d. OBTAIN AND SUBMIT RELEASES PERMITTING OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES. INCLUDE OCCUPANCY PERMITS, OPERATING
- e. PREPARE AND SUBMIT PROJECT RECORD DOCUMENTS, OPERATION AND MAINTENANCE MANUALS, FINAL COMPLETION CONSTRUCTION PHOTOGRAPHIC DOCUMENTATION, DAMAGE OR SETTLEMENT SURVEYS, PROPERTY SURVEYS, AND SIMILAR FINAL RECORD
- f. DELIVER TOOLS, SPARE PARTS, EXTRA MATERIALS, AND SIMILAR ITEMS TO LOCATION DESIGNATED BY OWNER. LABEL WITH MANUFACTURER'S NAME AND MODEL NUMBER WHERE APPLICABLE. COORDINATE FIRST SUBPARAGRAPH BELOW WITH DIVISION 08 DOOR HARDWARE SECTIONS. REVISE IF OWNER MAKES FINAL CHANGEOVER OR IF KEY-CONTROL SYSTEM MANUFACTURER DELIVERS KEYS DIRECTLY TO OWNER.
- g. MAKE FINAL CHANGEOVER OF PERMANENT LOCKS AND DELIVER KEYS TO OWNER. ADVISE OWNER'S PERSONNEL OF CHANGEOVER IN SECURITY PROVISIONS.
- h. COMPLETE STARTUP TESTING OF SYSTEMS.

CERTIFICATES, AND SIMILAR RELEASES.

- i. SUBMIT TEST/ADJUST/BALANCE RECORDS. j. TERMINATE AND REMOVE TEMPORARY FACILITIES FROM PROJECT SITE, ALONG WITH
- MOCKUPS, CONSTRUCTION TOOLS, AND SIMILAR ELEMENTS. k. ADVISE OWNER OF CHANGEOVER IN HEAT AND OTHER UTILITIES.
- I. SUBMIT CHANGEOVER INFORMATION RELATED TO OWNER'S OCCUPANCY, USE, OPERATION, AND MAINTENANCE.
- m. COMPLETE FINAL CLEANING REQUIREMENTS, INCLUDING TOUCH-UP PAINTING. n. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES TO
- o. PREPARE CLOSEOUT LOG: AN ELECTRONIC SPREADSHEET LOG LISTING ALL CLOSEOUT DELIVERABLES REQUIRED IN THE SPECIFICATIONS INCLUDING CONTRACTOR'S RECORD DRAWINGS, WARRANTIES, SHOP DRAWINGS, PRODUCT DATA, EXTRA STOCK, TRAINING AND O&MS. SEE SAMPLE CLOSEOUT ON E-BUILDER.
- B. INSPECTION: SUBMIT A WRITTEN REQUEST FOR INSPECTION FOR SUBSTANTIAL COMPLETION. ON RECEIPT OF REQUEST, ARCHITECT, CONSULTANT AND OWNER'S REPRESENTATIVE WILL EITHER PROCEED WITH INSPECTION OR NOTIFY CONTRACTOR OF UNFULFILLED REQUIREMENTS. ARCHITECT WILL PREPARE THE CERTIFICATE OF SUBSTANTIAL COMPLETION AFTER INSPECTION OR WILL NOTIFY CONTRACTOR OF ITEMS, EITHER ON CONTRACTOR'S LIST OR ADDITIONAL ITEMS IDENTIFIED BY ARCHITECT, THAT MUST BE COMPLETED OR CORRECTED BEFORE CERTIFICATE WILL BE ISSUED.
 - a. REINSPECTION: REQUEST REINSPECTION WHEN THE WORK IDENTIFIED IN PREVIOUS
 - INSPECTIONS AS INCOMPLETE IS COMPLETED OR CORRECTED b. RESULTS OF COMPLETED INSPECTION WILL FORM THE BASIS OF REQUIREMENTS FOR
- FINAL COMPLETION.
- 3. FINAL COMPLETION
- A. PRELIMINARY PROCEDURES: BEFORE REQUESTING FINAL INSPECTION FOR DETERMINING FINAL COMPLETION, COMPLETE THE FOLLOWING:
- a. SUBMIT A FINAL APPLICATION FOR PAYMENT ACCORDING TO DIVISION 01 SECTION "PAYMENT
- b. SUBMIT CERTIFIED COPY OF ARCHITECT'S SUBSTANTIAL COMPLETION INSPECTION LIST OF ITEMS TO BE COMPLETED OR CORRECTED (PUNCH LIST), ENDORSED AND DATED BY ARCHITECT. THE CERTIFIED COPY OF THE LIST SHALL STATE THAT EACH ITEM HAS BEEN COMPLETED OR OTHERWISE RESOLVED FOR
- c. SUBMIT EVIDENCE OF FINAL, CONTINUING INSURANCE COVERAGE COMPLYING WITH INSURANCE
- d. SUBMIT PEST-CONTROL FINAL INSPECTION REPORT AND WARRANTY.
- e. INSTRUCT OWNER'S PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF PRODUCTS, EQUIPMENT, AND SYSTEMS.
- B. REINSPECTION: REQUEST REINSPECTION WHEN THE WORK IDENTIFIED IN PREVIOUS INSPECTIONS AS INCOMPLETE IS COMPLETED OR CORRECTED.
- 4. LIST OF COMPLETENESS ITEMS (PUNCH LIST)
- A. ORGANIZATION OF LIST: INCLUDE NAME AND IDENTIFICATION OF EACH SPACE AND AREA AFFECTED BY CONSTRUCTION OPERATIONS FOR INCOMPLETE ITEMS AND ITEMS NEEDING CORRECTION INCLUDING, IF NECESSARY, AREAS DISTURBED BY CONTRACTOR THAT ARE OUTSIDE THE LIMITS OF CONSTRUCTION.
 - a. ORGANIZE LIST OF SPACES IN A SEQUENTIAL ORDER. b. ORGANIZE ITEMS APPLYING TO EACH SPACE BY MAJOR ELEMENT, INCLUDING CATEGORIES FOR
 - CEILING, INDIVIDUAL WALLS, FLOORS, EQUIPMENT, AND BUILDING SYSTEMS.
 - c. 3. SUBMIT LIST OF INCOMPLETE ITEMS IN THE FOLLOWING FORMAT: A. PDF ELECTRONIC FILE.

- A. SUBMITTAL TIME: SUBMIT WRITTEN WARRANTIES ON REQUEST OF ARCHITECT FOR DESIGNATED PORTIONS OF THE WORK WHERE COMMENCEMENT OF WARRANTIES OTHER THAN DATE OF SUBSTANTIAL COMPLETION IS INDICATED.
- B. ORGANIZE WARRANTY DOCUMENTS INTO AN ORDERLY SEQUENCE BASED ON THE TABLE OF CONTENTS OF THE PROJECT MANUAL. a. BIND WARRANTIES AND BONDS IN HEAVY-DUTY, 3-RING, VINYL-COVERED, LOOSE-LEAF
 - BINDERS, THICKNESS AS NECESSARY TO ACCOMMODATE CONTENTS, AND SIZED TO RECEIVE 8-1/2-BY-11-INCH (215-BY-280-MM) PAPER. b. PROVIDE HEAVY PAPER DIVIDERS WITH PLASTIC-COVERED TABS FOR EACH SEPARATE
 - WARRANTY. MARK TAB TO IDENTIFY THE PRODUCT OR INSTALLATION. PROVIDE A TYPED DESCRIPTION OF THE PRODUCT OR INSTALLATION, INCLUDING THE NAME OF THE PRODUCT AND THE NAME, ADDRESS, AND TELEPHONE NUMBER OF INSTALLER.
 - c. IDENTIFY EACH BINDER ON THE FRONT AND SPINE WITH THE TYPED OR PRINTED TITLE "WARRANTIES," PROJECT NAME, AND NAME OF CONTRACTOR. d. SCAN WARRANTIES AND BONDS AND ASSEMBLE COMPLETE WARRANTY AND BOND SUBMITTAL PACKAGE INTO INDIVIDUAL PDF FILES ORGANIZED BY SPECIFICATION
- C. PROVIDE ADDITIONAL COPIES OF EACH WARRANTY TO INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

DIVISION 2 EXISTING CONDITIONS

2.1 SELECTIVE DEMOLITION

- A. GENERAL: DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
- I. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING, TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS TO REMAIN.
- 2. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING
- EXISTING FINISHED SURFACES. 3. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS, VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
- 4. LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
- 5. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. B. REUSE OF BUILDING ELEMENTS: PROJECT HAS BEEN DESIGNED TO RESULT IN END-OF-PROJECT RATES FOR REUSE OF BUILDING ELEMENTS AS FOLLOWS. DO NOT DEMOLISH BUILDING ELEMENTS BEYOND WHAT IS
- INDICATED ON DRAWINGS WITHOUT ARCHITECT'S APPROVAL. C. REMOVED AND SALVAGED ITEMS (VERIFY PROCEDURE WITH BSD MAINTENANCE):
- I. CLEAN SALVAGED ITEMS: PACK OR CRATE ITEMS AFTER CLEANING. IDENTIFY CONTENTS OF CONTAINERS. 2. STORE ITEMS IN A SECURE AREA UNTIL DELIVERY TO OWNER. 3. PROTECT ITEMS FROM DAMAGE DURING TRANSPORT AND STORAGE.
- D. REMOVED AND REINSTALLED ITEMS: CLEAN AND REPAIR ITEMS TO FUNCTIONAL CONDITION ADEQUATE FOR INTENDED REUSE. PAINT EQUIPMENT TO MATCH NEW EQUIPMENT. I. PACK OR CRATE ITEMS AFTER CLEANING AND REPAIRING. IDENTIFY CONTENTS OF CONTAINERS.
- 2. PROTECT ITEMS FROM DAMAGE DURING TRANSPORT AND STORAGE. 3. REINSTALL ITEMS IN LOCATIONS INDICATED. COMPLY WITH INSTALLATION REQUIREMENTS FOR NEW MATERIALS AND EQUIPMENT. PROVIDE CONNECTIONS, SUPPORTS, AND MISCELLANEOUS MATERIALS
- NECESSARY TO MAKE ITEM FUNCTIONAL FOR USE INDICATED. E. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE.

DIVISION 8 OPENINGS

8.1 COILING DOORS

- A. SYSTEM DESCRIPTION
- I. PERFORMANCE REQUIREMENTS
- a. PROVIDE DOORS WITH UNDERWRITER'S LABORATORIES, INC. LABEL FOR THE FIRE RATING CLASSIFICATION INDICATED ON DRAWINGS
- I. REFERENCE SECTION 01 33 00 SUBMITTAL PROCEDURES; SUBMIT THE FOLLOWING ITEMS
- - b. SHOP DRAWINGS: INCLUDE SPECIAL CONDITIONS NOT DETAILED IN PRODUCT DATA. SHOW

 - INTERFACE WITH ADJACENT WORK.
 - c. QUALITY ASSURANCE/CONTROL SUBMITTALS: PROVIDE MANUFACTURER ISO 9001: 2015 REGISTRATION
 - PROVIDE MANUFACTURER AND INSTALLER QUALIFICATIONS SEE 1.4 BELOW
 - PROVIDE MANUFACTURER'S INSTALLATION INSTRUCTIONS. d. CLOSEOUT SUBMITTALS
 - OPERATION AND MAINTENANCE MANUAL CERTIFICATE STATING THAT INSTALLED MATERIALS COMPLY WITH THIS SPECIFICATION
- I. STANDARD WARANTY: TWO YEARS FROM DATE OF SHIPMENT AGAINST DEFECTS IN MATERIAL AND
- 2. MAINTENANCE: SUBMIT FOR OWNER'S CONSIDERATION AND ACCEPTANCE OF A MAINTENANCE SERVICE AGREEMENT FOR INSTALLED PRODUCTS.
- D. BASIS-OF-DESIGN MANUFACTURER
- I. MANUFACTURER: a. CORNELL: 24 ELMWOOD AVENUE, MOUNTAIN TOP, PA 18707. TELEPHONE: (800) 233-8366
- E. PRODUCT INFO I. MODEL: ERDI
- F. MATERIALS
- CURTAIN: a. SLATS: NO. 5F GALVANIZED STEEL WITH FINISH AS DESCRIBED BELOW: NO. 5F, MINIMUM 18 GAUGE,
- GRADE 40 STEEL, ASTM A 653 GALVANIZED STEEL ZINC COATING
 - ZIRCONIUM PRE-TREATMENT FOLLOWED BY BAKED-ON POLYESTER POWDER COAT, WITH COLOR TO MATCH EXISTING DOORS (VERIFY COLOR SELECTION WITH ARCHITECT); MINIMUM 2.5 MILS CURED FILM THICKNESS; ASTM D-3363 PENCIL HARDNESS: H OR BETTER
- a. FABRICATE INTERLOCKING CONTINUOUS SLAT SECTION WITH HIGH STRENGTH STEEL ENDLOCKS SECURED WITH 1/4" RIVETS PER UL REQUIREMENTS
- 3. BOTTOM BAR
- a. CONFIGURATION: • STAINLESS STEEL ANGLES: 2 AISI 300 SERIES STAINLESS STEEL ANGLES MINIMUM 2"X2"X1/8"
- a. FINISH: STAINLESS STEEL: #4 TYPE 304 FINISH
- 4. GUIDES

INCHES PER FOOT OF WIDTH

- a. FABRICATION: • MINIMUM 3/16 INCH [STRUCTURAL STEEL] [STAINLESS STEEL ANGLES]. TOP OF INNER AND OUTER GUIDE ANGLES TO BE FLARED OUTWARDS TO FORM BELLMOUTH FOR SMOOTH ENTRY OF CURTAIN INTO GUIDES. PROVIDE REMOVABLE GUIDE STOPPERS TO PREVENT OVER TRAVEL OF CURTAIN AND BOTTOM BAR. TOP 16 1/2" OF COIL SIDE GUIDE ANGLES TO BE REMOVABLE FOR EASE OF CURTAIN INSTALLATION AND AS NEEDED FOR FUTURE CURTAIN SERVICE
- HOT-DIP GALVANIZED: ASTM A 123, GRADE 95 ZINC COATING, HOT DIP GALVANIZED AFTER FABRICATION
- 5. COUNTERBALANCE SHAFT ASSEMBLY: a. BARREL: STEEL PIPE CAPABLE OF SUPPORTING CURTAIN LOAD WITH MAXIMUM DEFLECTION OF 0.03
- a. FABRICATE FROM MINIMUM 1/4 INCH STEEL PLATE WITH PERMANENTLY LUBRICATED BALL OR ROLLER BEARINGS AT ROTATING SUPPORT POINTS TO SUPPORT COUNTERBALANCE SHAFT ASSEMBLY AND FORM END CLOSURES
- POWDER COAT (COLOR SELECTED BY ARCHITECT): ZIRCONIUM TREATMENT FOLLOWED BY BAKED-ON POLYESTER POWDER COAT, COLOR MATCH EXISTING (VERIFY COLOR SELECTION WITH ARCHITECT); MINIMUM 2.5 MILS CURED FILM THICKNESS; ASTM D-3363 PENCIL HARDNESS: H
- a. MINIMUM 24 GAUGE GALVANIZED STEEL WITH REINFORCED TOP AND BOTTOM EDGES. PROVIDE MINIMUM 1/4 INCH STEEL INTERMEDIATE SUPPORT BRACKETS b. ZIRCONIUM TREATMENT FOLLOWED BY BAKED-ON POLYESTER POWDER COAT, WITH COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLOR RANGE; MINIMUM 2.5 MILS CURED
- FILM THICKNESS; ASTM D-3363 PENCIL HARDNESS: H OR BETTER 8. COMBINATION WEATHER/SMOKE SEALS:

CENTRAL ALARM SYSTEM.

- MOTOR OPERATED DOORS: COMBINATION SMOKE SEAL/SENSING EDGE
- b. GUIDES AND HEAD: REPLACEABLE, UL LISTED, BRUSH SMOKE SEALS SEALING AGAINST FASCIA SIDE OF CURTAIN G. OPERATION

PROVIDES EMERGENCY OPERATION DURING NON-ALARM POWER FAILURE.

I. MOTOR OPERATION

- a. ALARMGARD PLUS ADVANCED FIRE DOOR MOTOR OPERATION WITH CHAIN HOIST AND BATTERY BACKUP: UL, CUL LISTED NEMA I ENCLOSURE, HORSEPOWER AS RECOMMENDED BY MANUFACTURER, FIELD VERIFY EXISTING ELECTRICAL PHASE SERVICE. PROVIDE A TOTALLY ENCLOSED NON VENTILATED MOTOR, REMOVABLE WITHOUT AFFECTING THE SETTING OF LIMIT SWITCHES; THERMAL OVERLOAD PROTECTION, PLANETARY GEAR, REDUCTION, ADJUSTABLE ROTARY LIMIT SWITCH MECHANISM AND A TRANSFORMER WITH 24V SECONDARY OUTPUT. ALL INTERNAL ELECTRICAL COMPONENTS ARE TO BE
- PREWIRED TO TERMINAL BLOCKS. PROVIDE A FAILSAFE MOTOR OPERATED DOOR ASSEMBLY REQUIRING NO ANCILLARY OR EXTERNALLY MOUNTED RELEASE DEVICES, CABLES CHAINS, PULLEYS, RESET HANDLES OR
 - EQUIP OPERATOR WITH AN EMERGENCY MANUAL CHAIN HOIST ASSEMBLY THAT
 - PROVIDE AN INTERNAL ELECTRICAL FAILSAFE RELEASE DEVICE THAT REQUIRES NO ADDITIONAL WIRING, EXTERNAL CABLES OR MOUNTING LOCATIONS. PROVIDE AN INTERNAL SOLENOID BRAKE MECHANISM TO HOLD THE DOOR AT ANY
 - POSITION DURING NORMAL DOOR OPERATION. PROVIDE LOGIC FOR 3 FULLY MONITORED SAFETY REVERSING DEVICES SUCH THAT THE FAILURE OF ANY SINGLE MONITORED DEVICE WILL CAUSE THE MOTOR OPERATOR TO
 - AUTOMATICALLY REVERT TO CONSTANT PRESSURE TO CLOSE. ELECTRICALLY ACTIVATE DOOR SYSTEM AUTOMATIC CLOSURE BY NOTIFICATION FROM
- PROVIDE AN AUTOMATIC ALARM CLOSURE SELECTABLE TIME DELAY OF ZERO TO TEN CONTROL AUTOMATIC CLOSURE SPEED WITH AN INTERNAL, TOTALLY ENCLOSED, VARIABLE RATE CENTRIFUGAL GOVERNOR WITHOUT THE USE OF ELECTRICAL PULSATION,
- CONSTANT RATE VISCOSITY, OSCILLATION TYPE OR OTHER EXPOSED GOVERNING DEVICES. MAINTAIN AUTOMATIC CLOSURE SPEED AT NOT MORE THAN 9" PER SECOND. • ENABLE SAFETY EDGE FUNCTION DURING ALARM CLOSING WHILE POWER IS PRESENT. ENABLE DOOR TO REST UPON OBSTRUCTION FOLLOWING THIS SEQUENCE.
- ELECTRICALLY RESET INTERNAL FAILSAFE RELEASE DEVICE AND DOOR OPERATING SYSTEM UPON RESTORATION OF ELECTRICAL POWER AND UPON CLEARING OF THE ALARM SIGNAL WITHOUT REQUIRING HUMAN INTERACTION. PROVIDE SELECTABLE ABILITY FOR THE DOOR SYSTEM TO AUTOMATICALLY SELF-CYCLE TO
- THE FULLY OPEN POSITION FOLLOWING AUTOMATIC RESET WITHOUT REQUIRING HUMAN PROVIDE AN INTEGRAL, NON-RESETTABLE CYCLE COUNTER. • ENSURE THAT MANUAL RESETTING OF SPRING-TENSION, RELEASE DEVICES, LINKAGES OR
- MECHANICAL DROPOUTS WILL NOT BE REQUIRED. • PROVIDE MINIMUM #50 ROLLER CHAIN FOR DRIVE CONNECTION FROM MOTOR DRIVE ASSEMBLY TO THE DOOR DRIVE SHAFT.
- INSTALL SYSTEM ONLY WITH MANUFACTURER SUPPLIED OR SPECIFIED FASTENERS. NOTIFY ELECTRICAL CONTRACTOR TO MOUNT CONTROL STATION(S) AND SUPPLY THE APPROPRIATE DISCONNECT SWITCH, ALL CONDUIT AND WIRING PER THE DOOR SYSTEM WIRING INSTRUCTIONS.
- DROP TEST AND RESET DOOR SYSTEM TWICE BY ALL MEANS OF ACTIVATION AND COMPLY FULLY WITH NFPA 80 SECTION 5. H. EXECUTION

- I. EXAMINATION
- a. EXAMINE SUBSTRATES UPON WHICH WORK WILL BE INSTALLED AND VERIFY CONDITIONS ARE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- b. COORDINATE WITH RESPONSIBLE ENTITY TO PERFORM CORRECTIVE WORK ON UNSATISFACTORY
- c. COMMENCEMENT OF WORK BY INSTALLER IS ACCEPTANCE OF SUBSTRATE.
- 2. INSTALLATION a. GENERAL: INSTALL DOOR AND OPERATING EQUIPMENT WITH NECESSARY HARDWARE, ANCHORS, INSERTS, HANGERS AND SUPPORTS.
- b. COMPLY WITH NFPA 80 AND NFPA 105 AND FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- a. FOLLOWING COMPLETION OF INSTALLATION, INCLUDING RELATED WORK BY OTHERS, LUBRICATE, TEST, AND ADJUST DOORS FOR EASE OF OPERATION, FREE FROM WARP, TWIST, OR DISTORTION. 4. FIELD QUALITY CONTROL

a. SITE TEST: TEST DOORS FOR NORMAL OPERATION AND AUTOMATIC CLOSING. COORDINATE WITH

- AUTHORITIES HAVING JURISDICTION TO WITNESS TEST AND SIGN DROP TEST FORM.
- a. CLEAN SURFACES SOILED BY WORK AS RECOMMENDED BY MANUFACTURER. b. REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE.

DIVISION 9 FINISHES

- 9.1 NON-STRUCTURAL METAL FRAMING
- A. FRAMING MEMBERS, GENERAL: COMPLY WITH ASTM C 754 FOR CONDITIONS INDICATED. B. STEEL SHEET COMPONENTS: COMPLY WITH ASTM C 645 REQUIREMENTS FOR METAL, UNLESS OTHERWISE
- C. PROTECTIVE COATING: MANUFACTURER'S STANDARD CORROSION-RESISTANT ZINC COATING, UNLESS
- OTHERWISE INDICATED. D. TIE WIRE: ASTM A 641/A 641M, CLASS I ZINC COATING, SOFT TEMPER, 0.0625-INCH- (1.59-MM-) DIAMETER
- WIRE, OR DOUBLE STRAND OF 0.0475-INCH- (1.21-MM-) DIAMETER WIRE. E. HANGER ATTACHMENTS TO CONCRETE: I. ANCHORS: FABRICATED FROM CORROSION-RESISTANT MATERIALS WITH HOLES OR LOOPS FOR ATTACHING WIRE HANGERS AND CAPABLE OF SUSTAINING, WITHOUT FAILURE, A LOAD EQUAL TO 5

TIMES THAT IMPOSED BY CONSTRUCTION AS DETERMINED BY TESTING ACCORDING TO ASTM E 488 BY

- AN INDEPENDENT TESTING AGENCY. 2. POWDER-ACTUATED FASTENERS: SUITABLE FOR APPLICATION INDICATED, FABRICATED FROM CORROSION-RESISTANT MATERIALS WITH CLIPS OR OTHER DEVICES FOR ATTACHING HANGERS OF TYPE INDICATED, AND CAPABLE OF SUSTAINING, WITHOUT FAILURE, A LOAD EQUAL TO 10 TIMES THAT IMPOSED BY CONSTRUCTION AS DETERMINED BY TESTING ACCORDING TO ASTM E 1190 BY AN
- INDEPENDENT TESTING AGENCY. 3. WIRE HANGERS: ASTM A 641/A 641M, CLASS I ZINC COATING, SOFT TEMPER, 0.162-INCH (4.12-MM)
- 4. FLAT HANGERS: STEEL SHEET, I BY 3/16 INCH (25.4 BY 4.76 MM) BY LENGTH INDICATED.
- F. CARRYING CHANNELS: COLD-ROLLED, COMMERCIAL-STEEL SHEET WITH A BASE-METAL THICKNESS OF 0.0538 INCH (1.37 MM) AND MINIMUM 1/2-INCH- (12.7-MM-) WIDE FLANGES.
- G. GRID SUSPENSION SYSTEM FOR CEILINGS: ASTM C 645, DIRECT-HUNG SYSTEM COMPOSED OF MAIN BEAMS AND CROSS-FURRING MEMBERS THAT INTERLOCK. H. STEEL STUDS AND RUNNERS: ASTM C 645. MINIMUM BASE-METAL THICKNESS: 0.0179 INCH (0.45 MM).
- I. SLIP-TYPE HEAD JOINTS: WHERE INDICATED, PROVIDE ONE OF THE FOLLOWING: I. DOUBLE-RUNNER SYSTEM: ASTM C 645 TOP RUNNERS, INSIDE RUNNER WITH 2-INCH- (50.8-MM-) DEEP FLANGES IN THICKNESS NOT LESS THAN INDICATED FOR STUDS AND FASTENED TO STUDS, AND OUTER
- RUNNER SIZED TO FRICTION FIT INSIDE RUNNER. 2. DEFLECTION TRACK: STEEL SHEET TOP RUNNER MANUFACTURED TO PREVENT CRACKING OF FINISHES APPLIED TO INTERIOR PARTITION FRAMING RESULTING FROM DEFLECTION OF STRUCTURE ABOVE; IN THICKNESS NOT LESS THAN INDICATED FOR STUDS AND IN WIDTH TO ACCOMMODATE DEPTH OF
- USE SOLID WOOD BLOCKING ONLY. FLAT STRAP AND BACKING PLATE ARE PROHIBITED. K. COLD-ROLLED CHANNEL BRIDGING: 0.0538-INCH (1.37-MM) BARE-STEEL THICKNESS, WITH MINIMUM 1/2-INCH-(12.7-MM-) WIDE FLANGES.
- L. HAT-SHAPED, RIGID FURRING CHANNELS: ASTM C 645. MINIMUM BASE METAL THICKNESS: 0.0179 INCH (0.45
- M. COLD-ROLLED FURRING CHANNELS: 0.0538-INCH (1.37-MM) BARE-STEEL THICKNESS, WITH MINIMUM 1/2-INCH-(12.7-MM-) WIDE FLANGES.
- N. FASTENERS FOR METAL FRAMING: OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES REQUIRED TO FASTEN STEEL MEMBERS TO SUBSTRATES. O. INSTALLATION STANDARD: ASTM C 754.
- I. GYPSUM PLASTER ASSEMBLIES: ALSO COMPLY WITH REQUIREMENTS IN ASTM C 841 THAT APPLY TO FRAMING INSTALLATION.
- 2. PORTLAND CEMENT PLASTER ASSEMBLIES: ALSO COMPLY WITH REQUIREMENTS IN ASTM C 1063 THAT APPLY TO FRAMING INSTALLATION. 3. GYPSUM BOARD ASSEMBLIES: ALSO COMPLY WITH REQUIREMENTS IN ASTM C 840 THAT APPLY TO
- FRAMING INSTALLATION.
- P. SUSPEND HANGERS FROM BUILDING STRUCTURE AS FOLLOWS: I. 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.

SPLAY HANGERS ONLY WHERE REQUIRED TO MISS OBSTRUCTIONS AND OFFSET RESULTING HORIZONTAL

3. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACINGS THAT INTERFERE WITH LOCATIONS OF HANGERS REQUIRED TO SUPPORT STANDARD SUSPENSION SYSTEM MEMBERS, INSTALL SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS IN THE

7. DO NOT CONNECT OR SUSPEND STEEL FRAMING FROM DUCTS, PIPES, OR CONDUIT.

FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS.

- 4. DO NOT ATTACH HANGERS TO STEEL ROOF DECK. 5. DO NOT ATTACH HANGERS TO PERMANENT METAL FORMS. FURNISH CAST-IN-PLACE HANGER INSERTS
- THAT EXTEND THROUGH FORMS. 6. DO NOT ATTACH HANGERS TO ROLLED-IN HANGER TABS OF COMPOSITE STEEL FLOOR DECK.

GYPSUM BOARD INDICATED AND WHICHEVER IS MORE STRINGENT.

B. REGULAR TYPE: THICKNESS: 5/8 INCH (15.9 MM). LONG EDGES: TAPERED.

FORM OF TRAPEZES OR EQUIVALENT DEVICES.

- Q. SEISMIC BRACING: SWAY-BRACE SUSPENSION SYSTEMS WITH HANGERS USED FOR SUPPORT.
- 9.2 GYPSUM WALLBOARD A. GENERAL: COMPLYING WITH ASTM C 36/C 36M OR ASTM C 1396/C 1396M, AS APPLICABLE TO TYPE OF
- C. TYPE X: THICKNESS: 5/8 INCH (15.9 MM). LONG EDGES: TAPERED. D. MOISTURE- AND MOLD-RESISTANT TYPE: WITH MOISTURE- AND MOLD-RESISTANT CORE AND SURFACES. CORE: 5/8 INCH (15.9 MM), TYPE X. LONG EDGES: TAPERED.

E. GLASS-MAT GYPSUM SHEATHING BOARD: ASTM C 1177/C 1177M. SUBJECT TO COMPLIANCE WITH

- REQUIREMENTS, PROVIDE 1/2 INCH (12.7 MM), REGULAR TYPE "DENS-GLASS GOLD" BY G-P GYPSUM. F. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630/C 630M OR ASTM C 1396/C 1396M, 5/8 INCH
 - (15.9 MM), TYPE X. G. CEMENTITIOUS BACKER UNITS: ANSI A108.1, THICKNESS: AS INDICATED ON DRAWINGS.
 - H. INTERIOR TRIM: ASTM C 1047. I. EXTERIOR TRIM: ASTM C 1047.
- J. JOINT TREATMENT: COMPLY WITH ASTM C 475/C 475M.
- K. JOINT TAPE: I. INTERIOR GYPSUM WALLBOARD: PAPER. L. JOINT COMPOUND FOR INTERIOR GYPSUM WALLBOARD: FOR EACH COAT USE FORMULATION THAT IS
- M. JOINT COMPOUND FOR EXTERIOR APPLICATIONS: EXTERIOR GYPSUM SOFFIT BOARD: USE SETTING-TYPE TAPING COMPOUND AND SETTING-TYPE, SANDABLE TOPPING COMPOUND. N. JOINT COMPOUND FOR GLASS-MAT GYPSUM SHEATHING BOARD: AS RECOMMENDED BY SHEATHING

COMPATIBLE WITH OTHER COMPOUNDS APPLIED ON PREVIOUS OR FOR SUCCESSIVE COATS.

BOARD MANUFACTURER. O. JOINT COMPOUND FOR TILE BACKING PANELS: WATER-RESISTANT GYPSUM BACKING BOARD: USE SETTING-TYPE TAPING COMPOUND AND SETTING-TYPE, SANDABLE TOPPING COMPOUND.

P. JOINT COMPOUND FOR CEMENTITIOUS BACKER UNITS: AS RECOMMENDED BY BACKER UNIT

- Q. STEEL DRILL SCREWS: ASTM C 1002, UNLESS OTHERWISE INDICATED.
- R. APPLYING AND FINISHING PANELS, GENERAL:
- I. COMPLY WITH ASTM C 840.
- 2. WATER-RESISTANT GYPSUM BACKING BOARD: INSTALL AT SHOWERS, TUBS, AND WHERE INDICATED.

DUSTIN JOHNSON

ARCHITECTU ENGINEERIN PLANNIN INTERIOI 5895 SW 72ND AVE SUITE 2

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INSTALL WITH 1/4-INCH (6.4-MM) GAP WHERE PANELS ABUT OTHER CONSTRUCTION OR PENETRATIONS.

- 3. CEMENTITIOUS BACKER UNITS: ANSI A 108.1, AT LOCATIONS INDICATED TO RECEIVE TILE. S. CONTROL JOINTS: INSTALL CONTROL JOINTS AT LOCATIONS INDICATED ON DRAWINGS.
- T. GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW:
- I. LEVEL 4: FOUR COATS DRYWALL MUD FINISH- CLASSROOMS AND KITCHENS. 2. CEMENTITIOUS BACKER UNITS: FINISH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS
- 9.4 PAINTING
- A. MATERIAL COMPATIBILITY:
- I. PROVIDE MATERIALS FOR USE WITHIN EACH PAINT SYSTEM THAT ARE COMPATIBLE WITH ONE ANOTHER AND SUBSTRATES INDICATED, UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED
- BY MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.
- 2. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED.
- B. COLORS: TO MATCH EXISTING
- C. SHEEN: SEMI-GLOSS.
- D. SUBMITTALS:
- I. SUBMIT PRODUCT MSDS AND PRODUCT DATA SHEETS.
- 2. SUBMIT DRAW DOWNS TO ARCHITECT FOR COLOR VERIFICATION.
- F. COMPLY WITH ALL LOCAL AND STATE ORDINANCES REGARDING VOC CONTENT OF PRODUCTS FOR INDOOR OR OUTDOOR APPLICATIONS.
- G. MAXIMUM MOISTURE CONTENT OF SUBSTRATES: WHEN MEASURED WITH AN ELECTRONIC MOISTURE METER AS FOLLOWS:
- CONCRETE: 12 PERCENT.
- 2. MASONRY (CLAY AND CMU): 12 PERCENT.
- 3. WOOD: 15 PERCENT.
- 4. PLASTER: 12 PERCENT.
- 5. GYPSUM BOARD: 12 PERCENT.
- I. VERIFY SUITABILITY OF SUBSTRATES, INCLUDING SURFACE CONDITIONS AND COMPATIBILITY WITH EXISTING FINISHES AND PRIMERS.
- J. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES AND PAINT SYSTEMS
- K. GYPSUM BOARD SUBSTRATES: LATEX SYSTEM:
- 14. PRIME COAT: INTERIOR/EXTERIOR PVA (POLYVINYL ACETATE) MATCHING TOPCOAT.
- 15. INTERMEDIATE COAT: INTERIOR/EXTERIOR ACRYLIC LATEX, RODDA PAINT PASYN, OR EQUAL TOPCOAT.
- 16. TOPCOAT: INTERIOR/EXTERIOR ACRYLIC.
- M. HIGH PERFORMANCE COATING SYSTEMS: EPOXY OR POLYURETHANE SYSTEMS:
- I. REFER TO DRAWINGS FOR LOCATIONS AND APPLICATION OF HIGH PERFORMANCE COATING
- SYSTEMS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 2. USE SHERWIN WILLIAMS PRO INDUSTRIAL PRE-CATALYZED WATER BASE EPOXY AS A BASIS OF
- DESIGN BSD TO APPROVE EPOXY PRODUCT.
- 3. SURFACE PREPARATION: PER EPOXY MANUFACTURERS' PUBLISHED INSTRUCTIONS.
 - 4. COATING MAINTENANCE MANUAL: UPON CONCLUSION OF THE PROJECT, THE CONTRACTOR OR PAINT MANUFACTURE/SUPPLIER SHALL FURNISH A COATING MAINTENANCE MANUAL, SUCH AS SHERWIN-WILLIAMS "CUSTODIAN PROJECT COLOR AND PRODUCT INFORMATION" REPORT OR EQUAL. MANUAL SHALL INCLUDE AN AREA SUMMARY WITH FINISH SCHEDULE, AREA DETAIL DESIGNATING WHERE EACH PRODUCT/COLOR/FINISH WAS USED, PRODUCT DATA PAGES, MATERIAL SAFETY DATA SHEETS, CARE and cleaning instructions, touch-up procedures, and color samples of each color and FINISH USED.
- 9.7 RESILIENT BASE AND ACCESSORIES
- A. RESILIENT BASE STANDARD: ASTM F 1861.
- I. MATERIAL REQUIREMENT: TYPE TS (RUBBER, VULCANIZED THERMOSET) OR TYPE TP (RUBBER,
- 2. MANUFACTURING METHOD: GROUP I (SOLID, HOMOGENEOUS).
- 3. STYLE: COVE (BASE WITH TOE) OR STRAIGHT (FLAT OR TOELESS).
- 4. MINIMUM THICKNESS: 0.125 INCH (3.2 MM).
- 5. HEIGHT: AS INDICATED ON DRAWINGS.
- 6. LENGTHS: COILS IN MANUFACTURER'S STANDARD LENGTH.
- 7. CORNERS: JOB FORMED OR PREFORMED. 8. COLORS AND PATTERNS: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS.
- B. RESILIENT STAIR TREADS STANDARD: ASTM F 2169.
- I. MATERIAL REQUIREMENT: TYPE TS (RUBBER, VULCANIZED THERMOSET) OR TYPE TP (RUBBER, THERMOPLASTIC).
- 2. SURFACE DESIGN AND COLORS: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS.
- 3. NOSING HEIGHT: I-1/2 INCHES (38 MM).
- 4. THICKNESS: 1/4 INCH (6 MM) AND TAPERED TO BACK EDGE.
- 5. SIZE: LENGTHS AND DEPTHS TO FIT EACH STAIR TREAD IN ONE PIECE.
- 6. RISERS: SMOOTH, FLAT, TOELESS, HEIGHT AND LENGTH TO COVER RISERS; PRODUCED BY SAME MANUFACTURER AS TREADS AND RECOMMENDED BY MANUFACTURER FOR INSTALLATION WITH TREADS.
- 7. COLORS AND PATTERNS: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS.
- C. STRINGERS: OF SAME THICKNESS AS RISERS, HEIGHT AND LENGTH AFTER CUTTING TO FIT RISERS AND TREADS AND TO COVER STAIR STRINGERS; PRODUCED BY SAME MANUFACTURER AS TREADS AND RECOMMENDED BY MANUFACTURER FOR INSTALLATION WITH TREADS.
- D. COLORS AND PATTERNS: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS.
- E. RESILIENT MOLDING ACCESSORIES:
- I. MATERIAL: RUBBER.
- 2. PROFILE AND DIMENSIONS: AS INDICATED.
- 3. COLORS AND PATTERNS: AS SELECTED BY ARCHITECT FROM FULL RANGE OF INDUSTRY COLORS.
- F. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT RESILIENT PRODUCTS AND SUBSTRATE CONDITIONS INDICATED.
- G. PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE ADHESION
- H. DO NOT INSTALL RESILIENT PRODUCTS UNTIL THEY ARE SAME TEMPERATURE AS THE SPACE WHERE THEY ARE TO BE INSTALLED.
- I. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING RESILIENT PRODUCTS.
- J. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CLEANING AND PROTECTION OF RESILIENT
- K. FLOOR POLISH: REMOVE SOIL, VISIBLE ADHESIVE, AND SURFACE BLEMISHES FROM RESILIENT STAIR TREADS BEFORE APPLYING LIQUID FLOOR POLISH. APPLY THREE COATS.



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