DIVISION 1 - GENERAL REQUIREMENTS

1. PATCH AND REPAIR NOTES:

PATCH AND REPAIR HOLES AND DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION BY SELECTIVE DEMOLITION. WHERE REPAIRS TO EXISTING SURFACES ARE REQUIRED, PATCH TO PRODUCE SURFACES SUITABLE FOR NEW MATERIALS. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION TO REMAIN IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING. PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE WHERE DEMOLISHED WALLS OR PARTITIONS EXTEND ONE FINISHED AREA INTO ANOTHER. PROVIDE A FLUSH AND EVEN SURFACE OF UNIFORM COLOR AND APPEARANCE.

DIVISION 4 - MASONRY

1. BRICK AND CONCRETE BLOCK NOTES:

COMPLY WITH ACI 530.1/ASCE 6/TMS 602.

CONSTRUCT A SAMPLE WALL PANEL APPROXIMATELY 48 INCHES LONG BY 48 INCHES HIGH TO DEMONSTRATE AESTHETIC EFFECTS AND QUALITIES OF MATERIALS AND EXECUTION. REMOVE WALL PRIOR TO COMPLETION OF WORK.

CONCRETE MASONRY UNITS: ASTM C 90; WEIGHT CLASSIFICATION, NORMAL WEIGHT; TYPE I, MOISTURE-CONTROLLED UNITS. SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, AND OTHER SPECIAL CONDITIONS. BULLNOSE UNITS FOR OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED.

FACE BRICK: ASTM C 216. SIZE: STANDARD. SOLID BRICK WITH EXPOSED SURFACES FINISHED FOR ENDS OF SILLS AND CAPS. MATCH THE BRICK ON THE EXISTING BUILDING.

MORTAR: ASTM C 270, PROPORTION SPECIFICATION. DO NOT USE MASONRY CEMENT. DO NOT USE CALCIUM CHLORIDE IN MORTAR. PORTLAND CEMENT: ASTM C 150, TYPE I OR II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION. PROVIDE NATURAL COLOR OR WHITE CEMENT AS REQUIRED TO PRODUCE REQUIRED MORTAR COLOR. MATCH THE MORTAR COLOR ON THE EXISTING BUILDING. HYDRATED LINE: ASTM C 207, TYPE S. AGGREGATE FOR MORTAR: ASTM C 144, EXCEPT FOR JOINTS LESS THAN 1.4 INCH, USE AGGREGATE GRADED WITH 100 PERCENT PASSING THE NO. 16 SIEVE. WATER: CLEAN AND POTABLE. FOR MASONRY BELOW GRADE, IN CONTACT WITH EARTH, REINFORCED MASONRY, AND WHERE INDICATED, USE TYPE S. FOR EXTERIOR, ABOVE-GRADE, LOAD-BEARING WALLS AND PARAPET WALLS; FOR INTERIOR LOAD-BEARING WALLS; FOR INTERIOR NON-LOAD-BEARING PARTITIONS, AND FOR OTHER APPLICATIONS WHERE ANOTHER TYPE IS NOT INDICATED, USE TYPE N.

GROUT FOR UNIT MASONRY: COMPLY WITH ASTM C 476 AND REFERENCED UNIT MASONRY STANDARD. AGGREGATE FOR GROUT: ASTM C 404.

REINFORCING STEEL: PROVIDE REINFORCING STEEL COMPLYING WITH REQUIREMENTS OF REFERENCED UNIT MASONRY STANDARD AND THIS ARTICLE. STEEL REINFORCING BARS: BILLET STEEL COMPLYING WITH ASTM A 615. GRADE 60.

JOINT REINFORCEMENT, TIES, AND ANCHORS: PROVIDE JOINT REINFORCEMENT FORMED FROM GALVANIZED CARBON-STEEL WIRE, ASTM A 153, CLASS B-2, FOR EXTERIOR WALLS. WIRE DIAMETER FOR SIDE RODS: 0.1483 INCH. CROSS RODS: 0.1483 INCH. FOR SINGLE-WYTHE MASONRY, PROVIDE TRUSS DESIGN. FOR MULTIWYTHE MASONRY, PROVIDE TRUSS DESIGN WITH ONE SIDE ROD FOR EACH FACE SHELL OF HOLLOW MASONRY UNITS MORE THAN 4 INCHES IN NOMINAL WIDTH PLUS ONE SIDE ROD FOR EACH WYTHE OF MASONRY 4 INCHES OR LESS IN NOMINAL WIDTH.

LAMINATED CAVITY WALL FLASHING: 3 OZ./SQ. FT. COPPER SHEET BONDED WITH ASPHALT BETWEEN 2 LAYERS OF GLASS-FIBER CLOTH FOR FLASHING COMPLETELY CONCEALED IN THE CAVITY WALL. RIBBED FLASHING: COPPER FLASHING CONSISTING OF CONTINUOUS RIBS FOR TOOTHING INTO A BED JOINT OF MORTAR. 12 OZ. FOR FULLY CONCEALED INSTALLATION. DESIGN IS BASED ON PRODUCTS BY KEYSTONE FLASHING COMPANY, "COMBINATION RECEIVER AND INSERT TWO PIECE FLASHING" WHICH HAS BOTH THE RIBBED COMPONENT AND AN INTEGRAL SNAP-ON COUNTER FLASHING RECEIVER.

WEEP HOLES: COTTON SASH CORD, 24 INCHES LONG.

CAVITY WALL INSULATION: EXTRUDED-POLYSTYRENE BOARD INSULATION, ASTM C 578, TYPE IV. CHARACTERISTICS: 2 INCHES THICK, R-10 THERMAL RESISTIVITY. ADHESIVE COMPATIBLE WITH THE INSULATION BOARD.

MASONRY CLEANER: 1/2-CUP TETRASODIUM POLYPHOSPHATE AND 1/2-CUP LAUNDRY DETERGENT DISSOLVED IN 1 GAL. OF WATER.

INSTALLATION: CUT MASONRY UNITS WITH MOTOR-DRIVEN SAWS. INSTALL CUT UNITS WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED. MIX UNITS FOR EXPOSED UNIT MASONRY FROM SEVERAL PALLETS OR CUBES AS THEY ARE PLACED TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES.

CONSTRUCT EXTERIOR MASONRY WALLS TO MATCH BONDING PATTERN OF EXISTING BUILDING. PROVIDE "JACK" TYPE ARCHES OVER OPENINGS AS INDICATED ON DRAWINGS. MAINTAIN 3/8 INCH JOINT SIZE UNLESS INDICATED OTHERWISE ON DRAWINGS. TOOL EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD.

MORTAR BEDDING AND JOINTING: LAY HOLLOW CONCRETE MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN ALL COURSES. FOR STARTING COURSE ON FOOTINGS WHERE CELLS ARE NOT GROUTED, SPREAD OUT FULL MORTAR BED INCLUDING AREAS UNDER CELLS. STRUCTURAL BONDING OF MULTIWYTHE MASONRY: USE INDIVIDUAL METAL TIES INSTALLED IN HORIZONTAL JOINTS TO BOND WYTHES TOGETHER SPACED AS INDICATED ON DRAWINGS OR 16 IN. O.C. VERTICALLY. USE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT INSTALLED IN HORIZONTAL MORTAR JOINTS FOR BOND BETWEEN WYTHES.

INSTALLATION OF REINFORCED MASONRY: INSTALL REINFORCED UNIT MASONRY TO COMPLY WITH REQUIREMENTS OF REFERENCED UNIT MASONRY STANDARD. DO NOT PLACE GROUT UNTIL THE MASONRY TO BE GROUTED HAS ATTAINED SUFFICIENT STRENGTH TO RESIST GROUT PRESSURE. DO NOT REMOVE FORMS AND SHORES UNTIL REINFORCED MASONRY MEMBERS HAVE HARDENED SUFFICIENTLY TO CARRY THEIR WON WEIGHT AND OTHER TEMPORARY LOADS THAT MAY BE PLACE ON THEM DURING CONSTRUCTION. FILL CORES IN HOLLOW CONCRETE MASONRY UNITS WITH GROUT 24 INCHES UNDER BEARING PLATES, BEAMS, LINTELS, POSTS, AND SIMILAR ITEMS, UNLESS OTHERWISE INDICATED. KEEP CAVITIES CLEAN OF MORTAR DROPPINGS AND OTHER MATERIALS DURING CONSTRUCTION. STRIKE JOINTS FACING CAVITIES FLUSH.

LINTELS: INSTALL LINTELS WHERE INDICATED OR SCHEDULED. GROUT FILLED PRECAST LINTELS MADE FROM CONCRETE WITH REINFORCEMENT BARS INDICATED OR REQUIRED TO SUPPORT LOADS INDICATED. MINIMUM BEARING OF 8 INCHES AT EACH JAMB, UNLESS OTHERWISE INDICATED. SEE STRUCTURAL FOR LINTEL SCHEDULE.

FLASHING AND WEEP HOLES: INSTALL EMBEDDED FLASHING AND WEEP HOLES IN MASONRY AT SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER IN THE WALL, AND WHERE INDICATED. PLACE THROUGH-WALL FLASHING ON SLOPING BED OF MORTAR AND COVER WITH MORTAR. SEAL PENETRATIONS IN FLASHING BEFORE COVERING WITH MORTAR. EXTEND FLASHING 4 INCHES INTO MASONRY AT EACH END AND TURN UP 2 INCHES TO FORM A PAN. TRIM WICKING MATERIAL USED IN WEEP HOLES FLUSH WITH OUTSIDE FACE OF WALL AFTER MORTAR HAS SET.

CLEAN STONE MASONRY VENEER AS WORK PROGRESSES. REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS. FINAL CLEANING: AFTER MORTAR IS THOROUGHLY SET AND CURED, REMOVE LARGE MORTAR PARTICLES AND SCRUB UNIT MASONRY. WET WALL SURFACES WITH WATER, APPLY CLEANER, THEN REMOVE CLEANER BY RINSING THOROUGHLY WITH CLEAR WATER.

2. CAST STONE NOTES:

WORK INCLUDES THE DESIGN AND FABRICATION OF CAST STONE RUNNING TRIM AND CAPS AS INDICATED ON THE DRAWINGS.

MATERIALS TO INCLUDE (AS REQUIRED FOR THE DESIGN AND LOADING) DEFORMED REINFORCING BAR (ASTM A 615, GRADE 60), PORTLAND CEMENT (ASTM C 150), NORMAL-WEIGHT AGGREGATES (ASTM C 33, CLASS 5S), COLORING AGENT (ASTM C979), AIR-ENTRAINING ADMIXTURE (ASTM C 260), AND CHEMICAL ADMIXTURES (ASTM C 494, NO ADMIXTURES CONTAINING CHLORIDES ALLOWED). PROPORTION CONCRETE MIX TO PROVIDE COMPRESSIVE STRENGTH OF 5,000 PSI AND WATER-CEMENT RATIO OF 0.40 MAXIMUM.

DESIGN SHALL INCLUDE TEM PLATING BASED ON MATCH OF EXISTING RUNNING TRIM BAND AND MATCH OF LIMESTONE COLOR AND TEXTURE. SUBMIT SAMPLE FOR COLOR/TEXTURE FOR REVIEW AND ACCEPTANCE.

FABRICATE CAST STONE UNITS COMPLYING WITH MANUFACTURING AND TESTING PROCEDURE, QUALITY CONTROL RECOMMENDATIONS, AND FOLLOWING DIMENSIONAL TOLERANCES. ACCURATELY CONTRUCT FORMS MORTAR-TIGHT AND OF SUFFICIENT STRENGTH TO WITH STAND PRESSURES DUE TO CONCRETE PLACING OPERATIONS, AND TEMPERATURE CHANGES. MAINTAIN FORM WORK TO PROVIDE COMPLETED CAST STONE UNITS OF SHAPES, LINES, AND DIMENSIONS INDICATED. WITHIN SPECIFIED FABRICATION TOLERANCES. FABRICATE REINFORCEMENT ASSEMBLY IN EACH UNIT AND WELDED INTO A SINGLE, COMPLETE RIGID UNIT OF THE PROPER SIZE AND SHAPE. KEEP THE REINFORCEMENT 3/4 IN. AWAY FROM THE EDGES AND EXTERIOR SURFACES OF UNITS SO AS TO PREVENT STAINING AND/OR DISCOLORATION.

CURING: FORM CURE CAST STONE UNITS UNTIL 1500 PSI MINIMUM COMPRESSIVE STRENGTH HAS DEVELOPED BEFORE REMOVING FORM WORK. MAINTAIN CAST STONE UNITS AT MINIMUM TEMPERATURE OF 50 DEGREES F FOR AT LEAST 20 HOURS. COVER UNITS SURFACES WITH POLYETHYLENE SHEETING AT LEAST 20 HOURS TO PREVENT LOSS OF MOISTURE.

DIMENSIONAL TOLERANCES OF FINISHED UNITS: OVERALL HEIGHT AND WIDTH MEASURED AT THE FACE ADJACENT TO MOLD AT TIME OF CASTING:

10 FEET OR LESS: PLUS OR MINUS 1/8 INCH.
10 FEET TO 20 FEET: PLUS 1/8 INCH, MINUS 3/16 INCH.
ANGULAR DEVIATION OF PLANE OF SIDE MOLD: 1/32 INCH PER 3 INCHES DEPTH OR 1/16 INCH TOTAL, WHICHEVER IS GREATER.
OUT OF SQUARE (DIFFERENCE IN LENGTH OF TWO DIAGONAL MEASUREMENTS): 1/8 INCH PER 6 FEET OR 1/4 INCH TOTAL, WHICHEVER IS GREATER.
THICKNESS: MINUS 1/8 INCH, PLUS 1/4 INCH.
TOLERANCES OF OTHER DIMENSIONS NOT OTHERWISE INDICATED: NUMERICALLY GREATER OF PLUS OR MINUS 1/16 INCH PER 10 FEET, OR PLUS OR MINUS 1/8 INCH.
BOWING OR WARPING OF CAST STONE UNITS AFTER CASTING: NOT TO EXCEED L/360.

FABRICATE UNITS STRAIGHT, SMOOTH, AND TRUE TO SIZE AND SHAPE, WITH EXPOSED EDGES AND CORNER PRECISE AND SQUARE.

SURFACE FINISH: FABRICATE CAST STONE UNITS AND PROVIDE EXPOSED SURFACE FINISHES AS FOLLOWS: SMOOTH SURFACE FINISH FREE OF POCKETS, SAND STREAKS, AND HONEYCOMB, WITH UNIFORM COLOR AND TEXTURE TO MATCH SMOOTH MACHINE LIMESTONE.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

1. BUILT-UP ROOFING NOTES:

GENERAL REQUIREMENTS: PROVIDE HOT APPLIED BUILT-UP ROOFING SYSTEM WITH EXTERIOR FIRE-TEST EXPOSURE BASED ON ASTM E 108, CLASS A RATING. INSTALLATION STANDARD: ARMA/MRCA'S "QUALITY CONTROL GUIDELINES FOR THE APPLICATION OF BUILT-UP ROOFING."

PROVIDE STANDARD MANUFACTURER'S WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY ROOFING MANUFACTURE AGREEING TO PROMPTLY REPAIR LEAKS RESULTING FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR THE PERIOD OF 20 YEARS.

SYSTEM DESIGN: BUILT-UP ROOFING CONSISTING OF FIELD FABRICATED LAYERS OF WATERPROOFING BITUMEN ALTERNATING WITH PLIES OF REINFORCING FELTS OVER RIGID ROOF INSULATION BOARD WITH A GRAVEL PROTECTIVE SURFACING.

BASE FELT: COATED WITH A FILLED ASPHALT, ASTM D 4601, TYPE 1, UNPERFORATED GLASS-FIBER SHEET. PLY FELTS: ASTM D 2178, TYPE IV, GLASS-FIBER FELT. BASE FLASHING AND FLASHING SHEETS: ASTM D 2178, TYPE IV GLASS-FIBER FELT BACKER WITH ASPHALTIC POLYESTER/GLASS-FIBER-REINFORCED COMPOSITE FLASHING SHEET, SMOOTH SURFACED. ROOFING ASPHALT: ASTM D 312, TYPE III OR IV. AGGREGATE SURFACING: ASTM D 1863, CLEAN, DRY, OPAQUE GRAVEL.

ROOFING INSULATION: POLYISOCYANURATE BOARD INSULATION, ASTM C 1289, TYPE II. PROVIDE INSULATATION BOARD IN SUFFICIENT THICKNESS TO PROVIDE OVERALL AVERAGE R-VALUE OF AT LEAST R-19 (APPROXIMATELY 3 INCHES).

PROVIDE PRE-FABRICATED PIPE PENETRATION BOOTS COMPATIBLE WITH THE ROOFING SYSTEM AND SIZED FOR THE PIPES.

PROVIDE CANT STRIPS AND TAPERED CRICKETS COMPATIBLE WITH ROOFING SYSTEM. LAYOUT CRICKETS TO DIRECT WATER TOWARD ROOF DRAINS BASED ON COORDINATION WITH BUILT-IN SLOPE OF THE STRUCTURE AT THE ROOF.

MECHANICALLY FASTEN INSULATION TO METAL DECK WITH AT LEAST 1 FASTENER FOR EACH 4 SQ. FEET AND AT LEAST 2 FASTENERS PER BOARD. INSTALL AND SECURE CANT AND CRICKETS. INSTALL ONE (1) LAPPED BASE SHEET COURSE THREE LAPPED (3) PLY SHEETS. SHINGLE SIDE LAPS OF PLIES TO ACHIEVE NUMBER OF MEMBRANE PLIED THROUGHOUT. EMBED EACH PLY IN A SOLID MOPPING OF HOT ROOFING ASPHALT. INSTALL BACKER SHEET AND FLASHING SHEET AND SECURE TO SUBSTRATE WITH COMPATIBLE ADHESIVE. APPLY AGGREGATE IN UNIFORM THICKNESS AT RATE OF 10 TO 12 LBS. PER SQ. FOOT.

2. FLASHING NOTES:

FOR EXPOSED FLASHINGS NOT SPECIFIED UNDER MASONRY, PROVIDE 16 OZ. COPPER TYPICALLY. PROVIDE 2-PART SNAP IN COUNTER FLASHING WITH AT LEAST 1 IN. EMBEDMENT LEG INTO EXISTING MORTAR JOINT. FOR SCUPPER PROVIDE 16 OZ. LEAD COATED COPPER. COORDINATE INSTALLATION WITH ROOFING AND ROOF FLASHING TO PROVIDE 100% WATERTIGHT INSTALLATION.

3. ROOFING ACCESSORY NOTES:

PROVIDE ROOFING ACCESSORIES COMPLETE WITH CURBS, COUNTER-FLASHING, ATTACHMENT HARDWARE FOR COMPONENTS INDICATED ON DRAWINGS INCLUDING:

OUTSIDE AIR INTAKE HOOD: UNIT SHALL PASS 23,000 CFM AT NOT GREATER THAN 0.10 INCHES WATER COLUMN STATIC PRESSURE. THROAT AREA: 25 SQ. FT. OVERALL HOOD DIMENSION SHALL BE APPROXIMATELY 91 IN. X 130 IN. COORDINATE ROOF OPENING AND CURB CONSTRUCTION TO ACCOMMODATE ACTUAL HOOD SUPPLIED. GALVANIZED STEEL, FULLY WELDED JOINTS, WITH MANUFACTURER'S STANDARD POLYSTER FINISH, COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD.

MULTIPLE PIPE CURB ASSEMBLY: HEAVY DUTY GALVANIZED STEEL, UNITIZED, FULLY MITRED CORNER, ALL SEAMS WELDED, WITH 1-1/2 INCH INTEGRAL RIGID FIBERGLASS INSULATION, 2 IN. X 4 IN. WOOD NAILER BLOCKS, ACRYLIC CLAD ABS PLASTIC COVERS (SINGLE CAP REQUIRED WITH MULTIPLE OPENINGS), PVC BOOTS, AND STAINLESS STEEL CLAMPS. BASED ON PRODUCT MANUFACTURED BY THE PATE COMPANY. SIZE: APPROXIMATELY 12 IN. X 48 IN.

COORDINATE INSTALLATION OF ROOFING ACCESSORIES WITH BUILT-UP ROOFING SPECIFIED IN ANOTHER SECTION OF THIS SPECIFICATION. FINAL INSTALLATION SHALL BE 100% WATERTIGHT AND IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

4. SPRAYED-ON FIREPROOFING NOTES:

PROVIDE HIGH-DENSITY, CEMENT BASED FIREPROOFING SYSTEM IDENTICAL TO THOSE USED IN ASSEMBLIES TESTED FOR FIRE-RESISTANCE RATINGS ACCORDING TO ASTM E 119, AND SURFACE-BURNING CHARACTERISTICS ACCORDING TO ASTM E 84, BY UL OR ANOTHER TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

DESIGN BASED ON CEMENTITIOUS FIREPROOFING: "MONOKOTE" TYPE Z-146 BY GRACE CONSTRUCTION PRODUCTS DIVISION, W.R. GRACE & COMPANY. OTHER MANUFACTURERS PROVIDING PRODUCTS WITH SIMILAR PERFORMANCE CHARACTERISTICS MAY BE SUBSTITUTED.

APPLY IN THICKNESSES TO PROVIDE THE FOLLOWING RATINGS: BEAMS SUPPORTING FLOORS-1 HOUR, BEAMS SUPPORTING ROOF-1 HOUR, COLUMNS-1 HOUR.

CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF FIRE-RESISTIVE MATERIALS, INCLUDING OIL, GREASE, ROLLING COMPOUNDS, INCOMPATIBLE PRIMER, AND LOOSE MILL SCALE. COMPLY WITHY MANUFACTURER'S WRITTEN INSTRUCTIONS FOR MIXING MATERIALS, APPLICATION PROCEDURE, AND TYPES OF EQUIPMENT USED TO CONVEY AND SPRAY ON FIRE-RESISTIVE MATERIALS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATING INDICATED.

5. FIRESTOPPING NOTES:

PROVIDE FIRESTOPPING SYSTEMS WITH FIRE-RESISTANCE RATINGS INDICATED BY REFERENCE TO UL DESIGNATIONS AS LISTED IN ITS "FIRE RESISTANCE DIRECTORY," OR TO DESIGNATIONS OF ANOTHER TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

PROVIDE THROUGH-PENETRATION FIRESTOPPING SYSTEMS WITH F-RATINGS INDICATED, AS DETERMINED ACCORDING TO ASTM E 814, BUT NOT LESS THAN THE FIRE-RESISTANCE RATING OF THE CONSTRUCTIONS PENETRATED. FLOOR ASSEMBLIES-1 HOUR, ROOF ASSEMBLIES-1 HOUR.

PROVIDE THROUGH-PENETRATION FIRESTOPPING SYSTEMS WITH T-RATINGS AS WELL AS F-RATINGS, AS DETERMINED ACCORDING TO ASTM E 814, WHERE INDICATED. FOR EXPOSED FIRESTOPPING, PROVIDE PRODUCTS WITH FLAME-SPREAD RATINGS OF LESS THAN 25 AND SMOKE-DEVELOPED RATINGS OF LESS THAN 450, AS DETERMINED ACCORDING TO ASTM E 84.

PROVIDE FIRESTOPPING TO INCLUDE BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:
JOINTS BETWEEN THE CONCRETE FLOOR DECK AND THE FACE OF THE BRICK WALL OF THE EXISTING BUILDING, JOINT BETWEEN THE EDGE OF THE ROOF AND THE FACE OF THE BRICK WALL OF THE EXISTING BUILDING, PIPE PENETRATIONS, AND DUCT PENETRATIONS THROUGH THE CONCRETE FLOOR AND/OR ROOF DECK.

INSTALL FIRESTOPPING SYSTEMS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH REQUIREMENTS LISTED IN THE TESTING AGENCY'S DIRECTORY FOR THE INDICATED FIRE-RESISTANCE RATING.

DIVISION 8 - DOOR AND WINDOWS

1. HOLLOW METAL DOOR AND FRAME NOTES:

COMPLY WITH ANSI/SDI 100. COMPLY WITH NFPA 80 FOR FIRE-RATED DOOR ASSEMBLIES. PROVIDE ASSEMBLIES IDENTICAL TO THOSE TESTED PER ASTM E 152, AND LABELED AND LISTED BY UL, WARNOCK HERSEY, OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

HOT-ROLLED STEEL SHEETS: ASTM A 569 (ASTM A 569M). COLD-ROLLED STEEL SHEETS: ASTM A 366 (ASTM A 366M), COMMERCIAL QUALITY OR ASTM A 620 (ASTM A 620M), DRAWING QUALITY.

STEEL DOORS: 1-3/4-INCH THICK OF MATERIALS AND ANSI/SDI 100 GRADES AND MODELS SPECIFIED BELOW, OR AS INDICATED ON DRAWINGS OR SCHEDULES:

INTERIOR DOORS: GRADE II, HEAVY-DUTY, MODEL 2, SEAMLESS DESIGN, MINIMUM 0.0478-INCH THICK, COLD-ROLLED STEEL SHEET FACES.

FABRICATE STEEL FRAMES TO BE RIGID, NEAT IN APPEARANCE, AND FREE FROM DEFECTS, WARP, OR BUCKLE. FOR INTERIOR FRAMES, PROVIDE UNITS WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS, FORMED FROM 0.0598-INCH THICK STEEL, WRAP AROUND TYPE WITH 2" SIGHT LINE.

PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO SDI 107.

COMPLY WITH NAAMM'S "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS" FOR RECOMMENDATIONS RELATIVE TO APPLYING FINISHES. APPLY SHOP PRIMER THAT COMPLIES WITH ANSI A224.1FOR STEEL DOORS AND FRAMES.

PLACE STEEL FRAMES TO COMPLY WITH PROVISIONS OF SDI 105. INSTALL STEEL DOORS ACCURATELY IN FRAMES, WITHIN CLEARANCES SPECIFIED IN ANSI/SDI 100.

2. WOOD DOOR NOTES:

SUBMIT SHOP DRAWINGS FOR DOORS, ASSOCIATED TRIM, AND SHOWING INTERFACE WITH ADJACENT CONSTRUCTION.

QUALITY STANDARD: NWWDA I.S.6, "INDUSTRY STANDARD FOR WOOD STILE AND RAIL DOORS."

EXTERIOR DOORS AND TRANSOMS: NWWDA STANDARD GRADE ASSEMBLED WITH WET-USE ADHESIVES AND MADE FROM MANUFACTURER'S STANDARD CONSTRUCTION WITH SOFTWOOD STILES AND RAILS WITH FLAT PANELS TO MATCH EXISTING DOORS. 1-3/4 INCH THICK. PROVIDE COORDINATED TRANSOM TO MATCH EXISTING TRUE DIVIDED LITE FRAMES. GLAZE TRANSOMS AT FACTORY WITH 1/4 INCH MINIMUM CLEAR GLASS. DESIGN BASED ON MATCHING BUILDING STANDARD (AS CLOSE AS PRACTICAL).

PROVIDE 1/8-INCH CLEARANCE AT JAMBS AND HEADS. AT THRESHOLDS PROVIDE 3/8-INCH CLEARANCE.

FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED.

FACTORY TREAT EXTERIOR DOORS AFTER FABRICATION WITH WATER REPELLENT TO COMPLY WITH NWWDA I.S.4.

3. HARDWARE NOTES:

PROVIDE HARDWARE SCHEDULE FOR EACH DOOR SHOWING HARDWARE SETS AND FULLY COORDINATED WITH DOORS AND FRAMES. VERIFY HARDWARE TYPE, FUNCTION, SIZE, AND KEYING WITH THE UNIVERSITY.

FINISH: MATCH BUILDING STANDARD. DESIGN AND SPECIFICATION BASED ON SATIN BRASS (US 4). VERIFY WITH UNIVERSITY.

HINGES: (3) PER DOOR , STEEL HINGES, NON RISING PIN, FLAT BUTTON TIP AND MATCHING PLUG, OIL-LITE OR BALL BEARING, NON-REMOVABLE PIN AT OUT SWINGING DOORS, SIZE AND THICKNESS: MATCH BUILDING STANDARD. FINISH: MATCH BUILDING STANDARD.

CLOSER: SURFACE MOUNTED, HEAVY DUTY, GRADE 1,HEAVY DUTY ARM. SIMILAR TO LCN 4000 SERIES. ALUMINUM FINISH FOR TYPICAL DOORS, SATIN BRASS FOR DOOR 4. CLOSERS ON ACTIVE LEAVES ONLY EXCEPT BOTH LEAVES OF DOOR 4.

LOCKSETS: MORTISE TYPE, GRADE 1 OPERATIONAL, FLAT LIP STRIKE, WROUGHT BOX STRIKE COVER, CAST OR FORGED, THROUGH-BOLTED, LEVER TRIM WITH COORDINATED RECTANGULAR ESCUTCHEON PLATE. FINISH: MATCH BUILDING STANDARD. FUNCTIONS (VERIFY WITH THE UNIVERSITY): DOOR 1-UTILITY ROOM LOCK (F21), DOORS 2 AND 3-STORE ROOM LOCK (F07).

PANIC DEVICES (BOTH LEAVES OF DOOR 4 ONLY): CRASHBAR TYPE WITH NO ASTRAGAL OR COORDINATOR, EXPOSED VERTICAL RODS, WITH COORDINATED TOP AND BOTTOM STRIKES, 1/2 INCH DIA. RODS, AND WITH DOGGING FEATURE. PROVIDE COORDINATED OUTSIDE TRIM WITH ESCUTCHEON PLATE, LEVER TRIM, AND KEYED CYLINDER.

FLUSH BOLTS: FOR INACTIVE LEAVES OF DOORS 1, 2, AND 3 PROVIDE EXTENSION FLUSH BOLTS, TOP AND BOTTOM TYPE, 1 IN. X 6-3/8 IN. FACE PLATE WITH COORDINATED TOP AND BOTTOM STRIKE (OR PROVIDE COORDINATED HOLE IN THRESHOLD).

OVERHEAD DOOR HOLDER/STOP: FOR ACTIVE LEAVES OF DOORS 1, 2, AND 3 PROVIDE SURFACE APPLIED, HEAVY DUTY, SPRING LOADED, DOOR STOPS WITH INTEGRAL HOLD OPEN FEATURE. SUITABLE FOR INTERIOR AND EXTERIOR DOORS. BUILT-IN SAFETY ALLOWANCE IN HOLD-OPEN MECHANISM TO PREVENT DAMAGE TO HOLDER IF DOOR IS FORCED.

KEYING: KEY TO EXISTING 7-PIN INTERCHANGEABLE CORE SYSTEM. (3) CHANGE KEYS PER LOCK, (6) MASTER AND GRANDMASTER, (3) CONSTRUCTION MASTER KEYS. KEYING ARRANGED THROUGH THE UNIVERSITY.

THRESHOLD: FOR EXTERIOR DOORS ONLY, PANIC TYPE (WITH RAISED LIP TO STOP BOTTOM OF DOOR) WITH INTEGRAL PILE TYPE BUMPER SEAL.

WEATHERSTRIPPING: SURFACE APPLIED SPONGE SILICON TYPE SEAL FOR FULL PERIMETER OF EXTERIOR DOOR.

KICK PLATES: FOR DOOR 4 PROVIDE KICK PLATES TO INSIDE OF BOTH LEAVES. SIZE: 8 IN. X WIDTH OF DOOR.

4. WOOD WINDOW NOTES:

SUBMIT PRODUCT DATA, SHOP DRAWINGS, AND GLAZAING SAMPLE FOR VERIFICATION PURPOSES.

DOUBLE-HUNG WOOD WINDOWS AS INDICATED ON DRAWINGS. TRUE DIVIDED LITES, MUNTIN PROFILE TO MATCH (AS CLOSE AS PRACTICAL) AND DIMENSION OF EXISTING WINDOWS AND COORDINATED WITH TRANSOM LITES (SEE WOOD DOOR NOTES). REVERSE COTTAGE STYLE. 16 OVER 12 LITE PATTERN. COMPLYING WITH NWWDA I.S 2 FOR PERFORMANCE GRADE DP30. PROVIDES WITH FACTORY APPLIED PRIMER COAT.

DESIGN BASED ON "WOOD ULTIMATE DOUBLE HUNG" STYLE WINDOW PROVIDE BY MARVIN WINDOWS AND DOORS PLANNING CENTRE (410)242-3000.

SINGLE GLAZED, 3/16 IN. OBSCURE GLASS.

PROVIDE ALL HARDWARE, OPERATORS, ANCHORS, CLIPS, LIMIT DEVICES, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND WEATHERTIGHT INSTALLATION. COORDINATE INSTALLATION WITH EXTERIOR AND INTERIOR TRIM PROVIDED AS MISCELLANEOUS CARPENTRY ITEMS. EXTERIOR CASINGS TO MATCH BUILDING STANDARD.

DIVISION 9 - FINISHES

1. PAINT NOTES:

PREPARE AND PAINT ALL NEW AND EXISTING WALLS, DOORS, AND FRAMES IN THE AREA OF CONSTRUCTION AND AS INDICATED ON THE DRAWINGS. ALL SURFACES TO RECEIVE PAINT SHALL BE ADEQUATELY PREPARED INCLUDING FILLING AND SANDING TO A SMOOTH SURFACE WITH FINE GRIT SANDPAPER. WORK ALSO INCLUDES CUTTING INTO AREAS ADJACENT TO NEW WORK TO PRODUCE A CONTINUOUS, FINISHED CONDITION.

PROVIDE PAINT PRODUCTS BY DURON.

PAINT CONCRETE BLOCK WITH (1) COAT OF BLOCK FILLER AND (2) COATS OF ACRYLIC LATEX WALL PAINT, EGG-SHELL FINISH.

INTERIOR WOOD TRIM: PRIMER WITH (2) COATS OF ACRYLIC LATEX FINISH PAINT, SEMI-GLOSS FINISH.

EXTERIOR WOOD DOORS AND WINDOWS: PRIMER WITH (2) COATS OF EXTERIOR ACRYLIC LATEX FINISH PAINT, GLOSS FINISH.

PAINT HOLLOW METAL FRAMES AND DOORS WITH (2) COATS ACRYLIC LATEX FINISH PAINT OVER FACTORY APPLIED PRIMER, SEMI-GLOSS FINISH.

COLOR AND SHEEN: VERIFY THAT SHEENS SPECIFIED MATCH BUILDING STANDARD.

FILL ALL NAIL HOLES AND VOIDS IN WOOD TRIM, SAND AND PREPARE ALL SURFACES INDICATED TO RECEIVE PAINT FINISH. BRUSH APPLY PAINT IN EVEN STROKES AND FOR FULL COVERAGE. SAND LIGHTLY BETWEEN COATS OF PAINT TO REMOVE BURRS AND EMBEDDED DUST/DEBRIS. APPLY PAINT IN AREAS ADJACENT TO EXISTING CONSTRUCTION TO THE EXTENT REQUIRED TO BLEND THE OLD AND NEW WORK.

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SAFETY STAMP

APPROVED BY

USING AGENCY ____ DATE ____
DPP ____ DATE ____
DAEC ____ DATE ____

Revisions:

Date	Description	By

Project: JIMINEZ MECHANICAL ROOM ADDITION
Title: SPECIFICATION NOTES
Scale: as noted
Bldg.no. 034
Proj. no.
Dwn.by CCD/BMF
Chk.by GT

Department of Architecture, Engineering, and Construction
The University of Maryland
College Park Campus

Dwg.no.
A-2
SHEET 2 of 2