SECTION 07 41 13 - PREFORMED INSULATED METAL ROOFING

- A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- 1. REMOVAL OF PROTECTIVE STRIPPABLE PLASTIC COATING FROM PREFINISHED ITEMS AS WORK PROGRESSES AND IS COMPLETED IN EACH AREA
- 2. AT COMPLETION OF ERECTION, WASH OR CLEAN ALL EXPOSED SURFACES AND TOUCH-UP ALL AREAS OF MARRED PAINT, AND ALL SCREW AND BOLT HEADS, ON EXTERIOR, WITH PAINT OF TYPE AND

B. INSPECTION, PREPARATION, AND COORDINATION:

- 1. INSPECT ALL SURFACES UPON WHICH METAL ROOFING WORK IS TO BE APPLIED. INSTALLATION OF ANY MATERIALS WILL BE CONSIDERED ACCEPTABLE BY THE CONTRACTOR OF THE SURFACE COVERED. IF ANY DEFECTIVE WORK IS COVERED IN, THE REMOVAL AND REPLACING OF METAL ROOFING WORK SHALL BE DONE BY THE CONTRACTOR, WITHOUT COST TO THE OWNER.
- 2. ALL SURFACES TO BE COVERED SHALL BE SMOOTH, DRY AND FREE FROM DIRT, DEBRIS AND FOREIGN MATERIAL BEFORE ROOFING IS INSTALLED.
- 3. COORDINATE WORK OF THIS SECTION WITH THE RELATED WORK OF OTHER CONTRACTORS.

1. FLUOROCARBON COATING: PROVIDE FROM THE ROOFING MANUFACTURER, A 20 YEAR WRITTEN VARRANTY COVERING COLOR FADE, CRACKING, PEELING, CHALK AND FILM INTEGRITY, AT NO CHARGE TO THE OWNER.

D. PREFORMED METAL ROOFING AND ACCESSORIES:

MANUFACTURER: PREFINISHED METAL ITEMS AS MANUFACTURED BY CECO BUILDING SYSTEMS DIVISION OF NCI GROUP, INC.; ROCKY MOUNT, NC. TEL: (800)474-CECO; WEB WWW.CECOBUILDINGS.COM. COMPARABLE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH THE SPECIFICATIONS, THE REQUIREMENTS OF THE DRAWINGS, AND REVIEW BY THE ARCHITECT. ITEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

- a. ROOFING PANELS.
- b. METAL DRIP EDGES.
- c. CLOSURE PANELS AND TRIM.
- d. ALL ASSOCIATED FLASHING, INCLUDING CAP FLASHING AND STEP FLASHING
- f. METAL ZEE CLIPS
- 2. ROOF SYSTEM: AS NOTED ON PLANS, PROVIDED IN CONTINUOUS LENGTHS.
- 1. <u>SEALANT</u>: MANUFACTURER STANDARD FIELD APPLIED.
- 2. TRIM: BRAKE-FORMED TRIM, INCLUDING BASE AND CORNER TRIM, OF SAME BASE MATERIAL AND GAUGE AS ROOFING PANELS. FINISH AND COLOR SHALL MATCH ROOFING PANELS.

a. SELF-TAPPING SCREWS AND OTHER ACCEPTABLE FASTENERS RECOMMENDED BY METAL PANE MANUFACTURER. PROVIDE CORROSION-RESISTANT FASTENERS WITH HEADS MATCHING COLOR OF METAL PANELS BY MEANS OF FACTORY-APPLIED COATING, WITH WEATHERTIGHT RESILIENT

NEOPRENE FLASHING: 1/8" THICK, N-3S NEOPRENE SHEET (BLACK), AS MANUFACTURED BY GATES ENGINEERING COMPANY, INC., WILMINGTON, DE, (302)656-9951, OR COMPARABLE PRODUCT SUBJECT TO REVIEW BY THE ARCHITECT.

2. <u>NEOPRENE WASHERS</u>: REQUIRED FOR INSTALLATION.

SECTION 07 42 13 - PREFORMED INSULATED METAL SIDING

A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN

1. AT COMPLETION OF ERECTION, WASH OR CLEAN ALL EXPOSED SURFACES AND TOUCH-UP ALL AREAS OF MARRED PAINT, AND ALL SCREW AND BOLT HEADS, ON EXTERIOR, WITH PAINT OF TYPE AND COLOR TO MATCH SHOP FINISH.

B. <u>INSPECTION</u>, PREPARATION, AND COORDINATION:

- 1 INSPECT ALL SURFACES UPON WHICH METAL SIDING WORK IS TO BE APPLIED. INSTALLATION OF ANY MATERIALS WILL BE CONSIDERED ACCEPTABLE BY THE CONTRACTOR OF THE SURFACE COVERED. IF ANY DEFECTIVE WORK IS COVERED IN, THE REMOVAL AND REPLACING OF METAL SIDING WORK SHALL BE DONE BY THE CONTRACTOR, WITHOUT COST TO THE OWNER.
- 2. ALL SURFACES TO BE COVERED SHALL BE SMOOTH, DRY AND FREE FROM DIRT, DEBRIS AND FOREIGN MATERIAL BEFORE SIDING IS INSTALLED.
- 3. COORDINATE WORK OF THIS SECTION WITH THE RELATED WORK OF OTHER CONTRACTORS.

1. FLUOROPOLYMER COATING: PROVIDE FROM THE SIDING MANUFACTURER, A 10 YEAR WRITTEN WARRANTY COVERING COLOR FADE, CRACKING, PEELING, CHALK AND FILM INTEGRITY, AT NO CHARGE TO THE OWNER.

D. PREFORMED METAL SIDING AND ACCESSORIES:

- MANUFACTURER: PREFINISHED METAL ITEMS AS MANUFACTURED BY CECO BUILDING SYSTEMS DIVISION OF NCI GROUP, INC.; ROCKY MOUNT, NC. TEL: (800)474-CECO; WEB: WWW.CECOBUILDINGS.COM. COMPARABLE PRODUCTS OF OTHER MANUFACTURERS MAY BE ACCEPTABLE SUBJECT TO CONFORMANCE WITH THE SPECIFICATIONS. THE REQUIREMENTS OF THE DRAWINGS, AND REVIEW BY THE ARCHITECT. ITEMS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
- a. SIDING PANELS.
- b. METAL DRIP EDGES. c. CLOSURE PANELS AND TRIM.
- d. ALL ASSOCIATED FLASHING, INCLUDING CAP FLASHING AND NEOPRENE PROFILE CLOSURES.
- 2. INSULATED METAL SIDING: CECO, CF FLUTE, PROVIDED IN CONTINUOUS LENGTHS.
- a. PANEL WIDTH: 42 INCHES
- b. <u>SEALANT</u>: MANUFACTURER STANDARD, FIELD APPLIED.

AS RECOMMENDED BY METAL PANEL MANUFACTURER

c. <u>TRIM</u>: BRAKE-FORMED TRIM, INCLUDING BASE AND CORNER TRIM, OF SAME BASE MATERIAL AND GAUGE AS SIDING PANELS. FINISH AND COLOR SHALL MATCH SIDING PANELS.

E. FASTENERS:

- 1. ATTACH PANELS TO METAL FRAMING USING SCREWS, FASTENERS, SEALANTS, AND ADHESIVES RECOMMENDED FOR APPLICATION BY METAL PANEL MANUFACTURER. a. FASTEN METAL PANELS TO SUPPORTS WITH FASTENERS AT EACH LOCATION INDICATED ON APPROVED SHOP DRAWINGS, AT SPACING AND WITH FASTENERS RECOMMENDED BY
- b. CUT PANELS IN FIELD WHERE REQUIRED USING MANUFACTURER'S RECOMMENDED METHODS. PROVIDE WEATHERPROOF JACKS FOR PIPE AND CONDUIT PENETRATING METAL PANELS.
- d. DISSIMILAR MATERIALS: WHERE ELEMENTS OF METAL PANEL SYSTEM WILL COME INTO CONTACT WITH DISSIMILAR MATERIALS, TREAT FACES AND EDGES IN CONTACT WITH DISSIMILAR MATERIALS
- 2. ATTACH PANEL FLASHING TRIM PIECES TO SUPPORTS USING RECOMMENDED FASTENERS AND JOINT
- 3. JOINT SEALERS: INSTALL SEALANTS WHERE INDICATED AND WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF METAL PANEL ASSEMBLIES
- a. SEAL PANEL BASE ASSEMBLY, OPENINGS, PANEL HEAD JOINTS, AND PERIMETER JOINTS USING SEALANTS INDICATED IN MANUFACTURER'S INSTRUCTIONS SPECIFIER: RETAIN OPTIONAL WALL PANEL VAPOR SEAL BEAD BELOW WHEN RECOMMENDED BASED UPON ARCHITECT'S WATER VAPOR TRANSMISSION ANALYSIS.
- b. SEAL WALL PANEL JOINTS; APPLY CONTINUOUSLY WITHOUT GAPS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, APPROVED SHOP DRAWINGS, AND PROJECT
- c. PREPARE JOINTS AND APPLY SEALANTS PER REQUIREMENTS OF DIVISION 07 SECTION.

F. MISCELLANEOUS:

END OF SECTION

- 1. <u>NEOPRENE WASHERS</u>: REQUIRED FOR INSTALLATION.
- 2. <u>FELT_UNDERLAYMENT</u>: TYPE II, NO. 30, UNPERFORATED ROOFING FELT CONFORMING TO ASTM STANDARD D226.

SECTION 07 60 00 - SHEET METAL WORK

1. PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND/OR REQUIRED BY FIELD CONDITIONS, AND AS SPECIFIED HEREIN.

2. TOUCH-UP PREFINISHED ITEMS DAMAGED DURING INSTALLATION.

- B. <u>APPLICABLE STANDARDS</u>: WORK AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE "ARCHITECTURAL SHEET METAL MANUAL", FIFTH EDITION, PUBLISHED IN 1993, HEREINAFTER REFERRED TO AS "SMACNA MANUAL", AS ISSUED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS
- C. QUALIFICATIONS: SHEET METAL CONTRACTOR SHALL BE A QUALIFIED CONTRACTING FIRM, WITH MINIMUM OF FIVE (5) YEARS EXPERIENCE, CAPABLE OF COMPLYING WITH THE SPECIFICATIONS.

- 1. GENERAL: PROVIDE ALL SHEET METAL WORK, EXCEPT WHERE NOTED ON THE DRAWINGS OR SPECIFIED, TO BE PROVIDED BY OTHER TRADES.
- 2. GALVANIZED SHEET METAL: COMMERCIAL QUALITY, COATED BEARING SHEET STEEL OF NOT LESS THAN THE US STANDARD GAUGES SPECIFIED. SHEET METAL SHALL HAVE A UNIFORM COATING DESIGNATION G90 ZINC COATING APPLIED BY THE CONTINUOUS HOT-DIP PROCESS (ASTM STANDARD A924) TO BOTH SIDES OF THE BASE METAL. MATERIALS SHALL COMPLY WITH ASTM STANDARD A653 FOR COMMERCIAL AND LOCK-FORMING QUALITY SHEET METAL. ACCEPTABLE PRODUCTS AND MANUFACTURER SHALL BE ZINCGRIP® GALVANIZED SHEET STEEL WITH PAINTGRIP® ZINC-PHOSPHATE COATING AS MANUFACTURED BY AK STEEL CORPORATION, MIDDLETOWN, OH, (513)425-5000 OR (800)331-2826, OR OTHER COMPARABLE MANUFACTURER AND PRODUCTS SUBJECT TO REVIEW BY THE ARCHITECT.
- a. <u>FLASHING AND COUNTER FLASHING</u>: 24 GAUGE, OR HEAVIER WHERE REQUIRED TO MEET SERVICE CONDITIONS.
- 3. <u>FASTENERS</u>: #10 X 1-1/4" MINIMUM HEX HEAD SCREWS, HEAVY CADMIUM PLATED STEEL, OR STAINLESS STEEL, AND NEOPRENE SEALING WASHERS NOT LESS THAN 3/4" O.D.

a. <u>FOR USE ON METAL JOINTS</u>: MONO 555®, ONE-PART ACRYLIC TERPOLYMER SEALANT, MEETING U.S. FEDERAL SPECIFICATION TT-S-230 AS MANUFACTURED BY TREMCO, INCORPORATED, COMMERICAL SEALANTS & WATERPROOFING DIVISION, BEACHWOOD, OH, (800)321-7906, (216)292-5000, www.tremcosealants.com; OR OTHER EQUIVALENT PRODUCT SUBJECT TO REVIEW BY THE ARCHITECT

- 1. <u>FIELD PAINTED METALS</u>: GALVANIZED METAL PRODUCTS SHALL BE MILL PHOSPHATIZED (ON BOTH SIDES) AFTER ZINC COATING AND MADE SUITABLE TO RECEIVE FIELD PAINTING BY OTHERS.
- 2. PREFINISHED METALS: FACTORY-APPLIED, PRIMED, AND OVEN-BAKED FINISH BASED ON KYNAR 500® RESIN - POLYVINYLIDENE FLUORIDE (PVDF) COATING SYSTEM BY ATOFINA CHEMICALS, INC., PHILADELPHIA, PA, (215)419-7520 OR (800)596-2750. FINISH SHALL BE BASED ON A MINIMUM OF 70% KYNAR 500® RESIN (BY WEIGHT) COMBINED WITH PROPRIETARY PIGMENTS FOR COIL OR SPRAY SYSTEMS AS PRODUCED BY A LICENSED COATING FORMULATOR. THIS FINISH SHALL BE IN STRICT ACCORDANCE WITH THE LICENSED FORMULATOR'S SPECIFICATION AND APPLIED BY AN APPLICATOR APPROVED BY THE LICENSED MANUFACTURER SUPPLYING THE COATING. PRIMER SHALL HAVE A DRY FILM THICKNESS OF 0.2 TO 0.4 MILS. TOPCOAT DRY FILM THICKNESS SHALL BE NOT LESS THAN 1.0 TO 1.3 MIL THICKNESS ON THE EXPOSED FINISHED SURFACE OF THE METAL PRODUCT
- a. <u>COLORS</u>: AS SELECTED BY THE ARCHITECT.

CTION 07 70 00 - ROOF SPECIALTIES AND ACCESSORIES

A. <u>WORK INCLUDED</u>: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND/OR REQUIRED BY FIELD CONDITIONS, AND AS SPECIFIED HEREIN.

B. ROOF HATCH MANUFACTURERS

- 1. THE BILCO COMPANY, NEW HAVEN, CT, (800)366-6530 OR (203)934-6363; www.bilco.com.
- 2. BABCOCK-DAVIS, BROOKLYN PARK, MN, (888)412-3726 OR (763)488-9247; www.babcockdavis.com.
- 3. MILCOR, COMMERCIAL PRODUCTS GROUP OF HART & COOLEY, INC., CAROL STREAM, IL, (800)624-8642;
- a. ROOF HATCH TYPE: FACTORY ASSEMBLED METAL ROOF HATCHES, READY FOR FIELD INSTALLATION ON BASE FRAME, BILCO TYPE S-20, 2'-6" X 3'-0", SINGLE LEAF HATCH FOR LADDER
- b. COVER: 14 GAUGE PAINT BOND G-90 GALVANIZED STEEL, WITH 3" BEADED FLANGE NEATLY WELDED. INSULATION SHALL BE 1" THICK FIBERGLASS INSULATION, FULLY COVERED AND

PROTECTED BY A 22 GAUGE PAINT BOND G-90 GALVANIZED STEEL METAL LINER.

- : 12" HIGH, 14 GAUGE PAINT BOND G-90 GALVANIZED STEEL. CURB SHALL BE FORMED WITH 3-1/2" FLANGES WITH HOLES FOR SECURING TO THE ROOF DECK. CURB SHALL HAVE INTEGRAL METAL CAPFLASHING OF SAME GAUGE AND MATERIAL AS THE CURB, FULLY WELDED AT CORNERS FOR WEATHERTIGHTNESS. INSULATION ON EXTERIOR SIDE SHALL BE RIGID FIBERBOARD, 1"
- d. FACTORY FINISH: RED OXIDE PRIME PAINT BOND ON GALVANIZED STEEL.
- e. CONSTRUCTION AND HARDWARE: FACTORY ASSEMBLED WITH HEAVY PINTLE HINGES, COMPRESSION SPRING OPERATORS ENCLOSED IN TELESCOPIC TUBES, POSITIVE SPRING LATCH WITH TURN HANDLES AND PADLOCK HASPS INSIDE AND OUTSIDE, AND RUBBER GASKET. COVER SHALL BE EQUIPPED WITH AN AUTOMATIC HOLD-OPEN ARM, COMPLETE WITH RED VINYL GRIP HANDLE FOR ONE HAND RELEASE. ALL HARDWARE SHALL BE ZINC PLATED AND CHROMATE SEALED. SPRINGS SHALL HAVE AN ELECTROCOATED ACRYLIC FINISH.
- f. ANCHORING DEVICES: FURNISH ANCHORING DEVICES OF SAME MANUFACTURER AS ROOF HATCH, COMPATIBLE WITH BASE FRAME.
- g. <u>DESIGN</u>: STRUCTURALLY SOUND, CAPABLE OF WITHSTANDING ALL WEATHER CONDITIONS DMMON TO THE BUILDING SITE, INCLUDING SNOW LOADING OF NOT LESS THAN 40 P.S.I., ACTING VERTICALLY, AND 100 M.P.H. WINDS, ACTING HORIZONTALLY, WITHOUT DAMAGE, DISPLACEMENT, DISTORTION, OR LEAKING.
- C. <u>PIPE SUPPORTS</u>: PROVIDE ROOFING CONTRACTOR WITH MODELS 3-R 2 AND/OR 3-R-4 PILLOW BLOCK PIPESTANDS AND PIPE STRAPS AS MANUFACTURED BY MIRO INDUSTRIES, INC., SALT LAKE CITY, UT, (801)975-9993 OR (800)768-6978; WWW.MIROIND.COM.
- 1. <u>PIPE_SUPPORT_PRODUCT_VERIFICATION:</u> CONTRACTOR SHALL VERIFY [THE NEED AND/OR USE OF] PIPE_SUPPORT_PRODUCTS_AS_INDICATED_ON_THE_DRAWINGS_AND/OR_SPECIFIED_HEREIN_FOR_ COORDINATED SIZE REQUIREMENTS IN ORDER TO PROVIDE ACTUAL PHYSICAL CONTACT AND SUPPORT OF PIPES AS REQUIRED. REPORT TO THE ARCHITECT IN WRITING, ANY DISCREPANCIES FROM SPECIFICATIONS AND DRAWINGS, AND ACTUAL CONDITIONS AT THE SITE.

D. PIPE FLASHINGS

- MANUFACTURER: PORTALS PLUS, COMMERCIAL PRODUCTS GROUP OF HART & COOLEY, INC., CAROL STREAM, IL, (800) 624-8642; WWW.COMMERCIALPRODUCTSGROUP.COM
- a. <u>FLASHING SYSTEM SINGLE OR MULTIPLE PIPE PENETRATIONS</u>: FACTORY FABRICATED FLASHING SYSTEM FOR SINGLE OR MULTIPLE PIPE PENETRATIONS OF SINGLE PLY ROOFING SYSTEMS SHALL BE PORTALS PLUS, "QUADRASEALS AND PIPE BOOTS". FLASHING SHALL BE MOLDED OF 60 MIL (0.060") THICK FPDM NEOPRENE OR HYPALON AND SHALL BE OZONE AND ULTRAVIOLET RESISTANT, WITH A SERVICEABLE TEMPERATURE RANGE OF -60F° TO +270°F MINIMUM. BASE FLANGE SHALL BE FEATHER EDGED, AND UNIT SHALL INCLUDE CONICALLY SHAPED STEPS WITH MOLDED RIBS AND STAINLESS STEEL CLAMPS.
- b. CURB MOUNTED PIPE FLASHING SYSTEM: FACTORY FABRICATED, CURB MOUNTED PIPE FLASHING SYSTEM FOR SINGLE OR MULTIPLE PIPE PENETRATIONS THROUGH SINGLE PLY ROOFING. PIPE FLASHING SYSTEM SHALL BE PORTALS PLUS, "PIPE PORTAL® SYSTEMS". SYSTEM SHALL INCLUDE PREFABRICATED ROOF CURB, LAMINATED ACRYLIC COATED ABS PLASTIC CURB COVER WITH PREPUNCHED MOUNTING HOLES AND MOLDED SEALING RINGS ON THE COLLAR OPENING, AND AN EPDM COMPRESSION MOLDED RUBBER CAP, AND STAINLESS STEEL CLAMPS.

E. <u>INSTALLATION</u>:

GENERAL: WHERE REQUIRED BY DRAWINGS AND/OR FIELD CONDITIONS. FURNISH TO THE ROOFING CONTRACTORS ALL ROOF SPECIALTIES AND ACCESSORIES, COMPLETE WITH ALL REQUIRED SEALANTS, ANCHORING DEVICES, AND MISCELLANEOUS ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, FURNISH ALL SHIMMING ACCESSORIES OF MATERIALS COMPATIBLE WITH ROOF CONSTRUCTION.

END OF SECTION

SECTION 07 90 00 - JOINT PROTECTION

A. WORK INCLUDED:

- 1. REMOVAL OF EXISTING CAULKING MATERIALS AS REQUIRED BY DRAWINGS AND/OR FIELD
- CONDITIONS AND PROVIDING SURFACES SUITABLE FOR NEW CAULKING MATERIALS. PREPARATION OF SURFACES.
- SELECTED INTERIOR LOCATIONS NOTED ON DRAWINGS OR SPECIFIED HEREIN WILL REQUIRE SEALANT IN LIEU OF CAULKING COMPOUND. a. BETWEEN DISSIMILAR MATERIALS, INCLUDING CONCRETE OR MASONRY TO METAL (ALUMINUM,

BE WITH SEALANTS, AND INTERIOR CAULKING SHALL BE WITH CAULKING COMPOUNDS, HOWEVER,

3. EXTERIOR AND INTERIOR CAULKING OF THE FOLLOWING JOINT TYPES. EXTERIOR CAULKING SHALL

- STEEL, STAINLESS STEEL), AND STEEL TO ALUMINUM (AT NON-METALLIC SHIMS). b. BETWEEN SIMILAR MATERIALS AS DETAILED, UNLESS SPECIFICALLY EXCLUDED.
- c. BETWEEN THRESHOLDS AND ADJOINING MATERIALS.
- d. EXTERIOR JOINTS WHERE MECHANICAL AND ELECTRICAL WORK PENETRATES CONCRETE,
- e. WHEREVER INDICATED ON THE DRAWINGS BY THE WORDS, SEAL, SEALER, SEALANT, CAULK, OR
- COMPRESSIBLE BACK-UP MATERIAL AS REQUIRED.
- FIRESTOPPING SYSTEMS.
- 6. CLEANING AND REMOVING EXCESS MATERIALS.
- B. NOTE: INTERIOR CAULKING FOR CERTAIN LOCATIONS MAY REQUIRE SEALANT IN LIEU OF CAULKING COMPOUNDS, AS RECOMMENDED BY THE SEALANT MANUFACTURER, SUBJECT TO REVIEW BY THE ARCHITECT. SEALANTS AND CAULKING COMPOUNDS FOR USE IN ANY ONE AREA SHALL BE OF ONE BRAND THROUGHOUT, MIXING OF BRANDS ON A SINGLE WALL OR IN A SINGLE ROOM IS PROHIBITED
- C. <u>COMPARABLE MANUFACTURERS AND PRODUCTS</u>: PROVIDE PRODUCTS OF MANUFACTURERS AS SPECIFIED HEREIN OR COMPARABLE EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS, SUBJECT TO

CONFORMANCE WITH THE SPECIFICATIONS AND REVIEW BY THE ARCHITECT.

- D. GRADE AND CONSISTENCY: PROVIDE CORRECT GRADE AND CONSISTENCY IN COLORS TO MATCH ADJACENT FINISH SURFACES. SET SEALANTS AND CAULKING COMPOUNDS SHALL BE WATERPROOF ELASTIC, NON-STAINING AND NON-CORROSIVE. SEALANTS AND CAULKING COMPOUNDS SHALL BE FIRM BUT NOT BRITTLE HARD, REMAIN PLASTIC WITHOUT CRACKING AT LOW TEMPERATURES, AND SHALL BE NON-SAGGING AT TEMPERATURES UP TO 120 DEGREES F. FOR 24 HOURS.
- E. PRIMERS: TYPES RECOMMENDED BY THE MANUFACTURER, TO PROVIDE ADEQUATE ADHESION AND PREVENT STAINING OF ADJACENT SURFACES.

- GENERAL USE: MULTIPLE-COMPONENT POLYURETHANE SEALANT, NON-SAG TYPE, CONFORMING TO ASTM STANDARD C920, TYPE M, GRADE NS, AND FED. SPEC. TT-S-00227E, TYPE II, CLASS A, SUCH AS DYNATROL® II, AS MANUFACTURED BY PECORA CORPORATION, HARLEYSVILLE, PA, (215)723-6051 OR
- SANITARY SEALANTS: NON-FOOD CONTACT SEALANT APPLICATIONS SHALL BE A ONE COMPONENT. ACETOXY CURE. SILICONE WITH FUNGICIDE, CONFORMING TO ASTM STANDARD C920, TYPE S, GRADE NS, CLASS 25, SUCH AS CONSTRUCTION SEALANTS, SPECIALTY PRODUCT LINE, SANITARY SCS 1900

TM SILICONE SEALANT, AS MANUFACTURED BY MOMENTIVE PERFORMANCE MATERIALS, WILTON, CT,

- G. <u>CAULKING COMPOUND</u>: ONE-PART ACRYLIC LATEX SEALANT, NON-SAG TYPE, CONFORMING TO ASTM STANDARD C834, SUCH AS AC-20® + SILICONE AS MANUFACTURED BY PECORA CORPORATION, HARLEYSVILLE, PA, (215)723-6051 OR (800)523-6688; WWW.PECORA.COM.
- H. <u>BACK-UP MATERIAL</u>: ROUND, FOAM ROD, CYLINDRICAL, FLEXIBLE, EXTRUDED, COMPRESSIBLE CLOSED CELL, POLYETHYLENE FOAM BACKER ROD, TYPE C PER ASTM STANDARD C1330, SUCH AS CLOSED-CELL BACKER ROD NOMACO® HBR®, MANUFACTURED BY CONSTRUCTION FOAM PRODUCTS, DIVISION OF NOMACO ENGINEERED FOAM SOLUTIONS, TARBORO, NC. (877) 291-1157; www.nomacoefs.com, PROVIDE BACKER RODS IN DIAMETERS 1/2 LARGER THAN WIDTH OF JOINTS IN WHICH RODS ARE INSTALLED.

END OF SECTION

- 1. PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN
- 2. PROVIDE HOLLOW METAL DOORS AND FRAMES AS INDICATED AND/OR REQUIRED BY FIELD CONDITIONS.

B. REFERENCE STANDARDS AND SPECIFICATIONS:

(800)295-2392; www.siliconeforbuilding.com.

- . EXCEPT AS OTHERWISE SPECIFIED HEREIN. DESIGN. MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE FOLLOWING CURRENT REFERENCE STANDARDS AND SPECIFICATIONS:
- a. STEEL DOOR INSTITUTE (SDI), RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES - ANSI A250.8-2003 (SDI-100). b. NATIONAL FIRE PROTECTION ASSOCIATION, NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER
- c. ASTM INTERNATIONAL STANDARD SPECIFICATIONS REFERRED TO HEREIN BY ASTM NUMBERS.

C. MANUFACTURERS:

- 1. CECO DOOR PRODUCTS, MILAN, TN, (888)232-6366 OR (731)686-8345; www.cecodoor.com.
- 2. CURRIES COMPANY, MASON CITY, IA, (641)423-1334 OR (800)377-3948; www.curries.com.
- 3. STEELCRAFT, CINCINNATI, OH, (513)745-6400 OR (800)243-9780; www.steelcraft.com.

D. QUALITY OF WORK:

- FABRICATION: ALL ITEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL DOOR INSTITUTE (SDI) "RECOMMENDED SPECIFICATIONS FOR STANDARD STEEL DOORS AND FRAMES ANSI A250.8-2003", THE DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS, APPROVED SHOP DRAWINGS, AND AS SPECIFIED HEREIN.
- . HOLLOW METAL DOORS: FULL FLUSH TYPE WITHOUT VISIBLE FACE JOINTS OR FACE SEAMS. TOP AND BOTTOM EDGES SHALL BE CLOSED FLUSH TO THE DOOR FACE SHEETS. NO INVERTED CHANNELS WILL BE ALLOWED. FABRICATION SHALL BE BY WELDING WHEREVER POSSIBLE.
- 3. THICKNESS OF STEEL: SUFFICIENT TO PROVIDE STRONG AND RIGID CONSTRUCTION WITH SMOOTH AND LEVEL FINISHED SURFACES THAT WILL REMAIN SO, AND SHALL NOT BE LIGHTER THAN THE U.S. STANDARD GAUGES SPECIFIED HEREIN.

E. PRESSED STEEL FRAMES:

- FABRICATION: WELDED UNIT TYPE COMBINING BUCKS AND JAMBS, OF DIMENSIONS AND PROFILES SHOWN ON THE DRAWINGS. FRAMES SHALL FORM TRUE RECTANGULAR OPENINGS. AND SHALL HAVE ALL CORNERS MITERED WELDED AND GROUND SMOOTH FRAMES SHALL BE FABRICATED OF COMMERCIAL GRADE COLD ROLLED STEEL CONFORMING TO ASTM STANDARD A1008. FRAMES FOR EXTERIOR DOOR OPENINGS SHALL BE FABRICATED OF GALVANIZED STEEL SHEETS, ASTM STANDARD A653 WITH ASTM STANDARD A924, A60 OR G60 ZINC COATING, MILL PHOSPHATIZED. MINIMUM GAUGE THICKNESS: 14 GAUGE FOR INTERIOR DOOR OPENINGS OVER 4'-0" IN WIDTH, 16 GAUGE FOR INTERIOR DOOR OPENINGS 4'-0" OR LESS IN WIDTH, AND 14 GAUGE FOR EXTERIOR DOOR OPENINGS.
- 2. EXTERIOR FRAMES: EXTERIOR FRAME ASSEMBLIES SHALL BE INSULATED AND COMPLY WITH ASTM

JAMB ANCHORS:

- a. METAL STUD PARTITION INSTALLATIONS: STANDARD #18 GAUGE (MINIMUM) STEEL ANCHORS, CURELY WELDED INSIDE EACH JAMB. FRAMES UP TO 7'-6" HIGH, PROVIDE 4 ANCHORS. FRAMES 7'-6" TO 8'-0" HIGH, PROVIDE 5 ANCHORS.
- I. <u>RUBBER BUMPERS</u>: PROVIDE A MINIMUM OF THREE (3) SOLID RUBBER BUMPERS OF APPROVED TYPE ON FACE OF STOP AT STRIKE JAMBS OF SINGLE DOOR FRAMES, AND NOT LESS THAN TWO (2) SOLID RUBBER BUMPERS ON HEADS OF DOUBLE DOOR FRAMES.

F. HOLLOW METAL DOORS:

- DOOR TYPE: FLUSH SLAB TYPE AND OF SIZES INDICATED ON THE DRAWINGS. DOORS SHALL BE ABRICATED OF COMMERCIAL QUALITY, LEVEL, COLD ROLLED STEEL CONFORMING TO ASTM STANDARD A1008, FREE OF SCALE, PITTING OR OTHER SURFACE DEFECTS. FACE SHEETS FOR EXTERIOR DOORS SHALL BE FABRICATED OF GALVANIZED STEEL SHEETS PER ASTM STANDARD A653 WITH ASTM STANDARD A924, A60 OR G60 ZINC COATING, MILL PHOSPHATIZED. EXTERIOR DOORS SHALL CONTAIN NON-COMBUSTIBLE FOAMED-IN-PLACE POLYURETHANE CORE WITH AN R-FACTOR OF NOT LESS THAN 11.01, AND SHALL COMPLY WITH ASTM STANDARD C1363.
- 2. FACE SHEET GAUGE THICKNESSES: MINIMUM 16 GAUGE FOR EXTERIOR DOORS.
- 3. <u>DOOR FACES AND EDGES</u>: SINGLE SHEETS, TURNED OVER REINFORCING CHANNELS AT PERIMETER AND AT OPENINGS, AND INTERNALLY REINFORCED. ALL FOUR EDGES OF THE DOORS SHALL BE CLOSED AND FLUSH. SURFACES SHALL BE FLAT, TRUE AND RIGID, WITHOUT VISIBLE SEAMS OR

- 1. CLEANING AND SHOP PAINTING: CLEAN STEEL SURFACES OF MILL SCALE, RUST, OIL, GREASE, DIRT, AND OTHER FOREIGN MATERIALS, AND PROVIDE BONDERIZING PROCESS BY USING A BONDERITE® SOLUTION TO PHOSPHATIZE ALL METAL SURFACES PRIOR TO FINISHING. PRIME INACCESSIBLE SURFACES SUCH AS INSIDE SURFACES OF FRAMES AND DOORS WITH RUST-INHIBITIVE PAINT BEFORE
- 2. PRIME PAINTING: APPLY SHOP COAT OF RUST-INHIBITIVE PRIMER TO ALL EXPOSED SURFACES OF METAL WORK, MAKE ALL SURFACES FLUSH AND SMOOTH, AND FILL ALL IRREGULARITIES WITH ONE OR MORE COATS OF MINERAL FILLER. APPLY ANOTHER COAT OF SUITABLE PRIMER, SAND SMOOTH BETWEEN COATS AND SEPARATELY BAKE-ON EACH COAT

1. GENERAL: CUT-OUT, DRILL, TAP, COUNTERSINK, REINFORCE AND PREPARE DOORS AND DOOR FRAMES AS REQUIRED TO RECEIVE ALL FINISH HARDWARE. COUNTERSINK ALL BUTTS, STRIKES AND LOCKSET FRONTS INTO THE SURFACE, TO BE FLUSH. CLOSE COUNTERSINK AREAS WITH REINFORCING FOR ITEMS SUCH AS BUTTS AND STRIKES. UNLESS OTHERWISE SPECIFIED. REINFORCING SHALL BE 3/16" STEEL PLATE FOR BUTTS. #16 GAUGE FOR LOCK AND LATCH SETS. AND #12 GAUGE (MINIMUM) FOR CLOSERS. WELD ALL REINFORCING PLATES TO THE INTERIOR OF THE

- 1. <u>EXTERIOR PRESSED STEEL FRAMES</u>: FURNISH PRESSED STEEL FRAMES TO MASONRY CONTRACTOR AS REQUIRED BY DRAWINGS AND/OR FIELD CONDITIONS.
- 2. DOORS: EXTERIOR DOORS SHALL BE HUNG TO FIT IN THE FRAMES WITH MINIMUM TOLERANCE, TO SWING EASILY AND QUIETLY WITHOUT TOUCHING THE FLOOR, AND IN FULL CONTACT WITH FRAME

END OF SECTION

SECTION 08 70 00 - FINISH HARDWARE

- A. $\underline{\text{WORK INCLUDED}}$: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- 1. <u>REQUIREMENTS OF REGULATORY AGENCIES</u>: FURNISH ALL FINISH HARDWARE IN ACCORDANCE WITH LAWS, CODES, ORDINANCES AND REGULATIONS OF THE PUBLIC AUTHORITIES HAVING JURISDICTION. AFTER AWARD OF THE FINISH HARDWARE SUBCONTRACT, NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL HARDWARE, OR CHANGES IN THE SPECIFIED HARDWARE, REQUIRED TO COMPLY WITH THE ABOVE REQUIREMENTS. ALL DOOR CLOSERS SHALL MEET ADA REQUIREMENTS FOR
- 2. FIRE-RATED OPENINGS: PROVIDE DOOR HARDWARE FOR FIRE-RATED OPENINGS THAT COMPLIES WITH NFPA 80 STANDARD AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. PROVIDE DOOR HARDWARE THAT IS LISTED AND ARE IDENTICAL TO PRODUCTS TESTED BY UL. WARNOCK HERSEY, FM, OR OTHER TESTING AND INSPECTING ORGANIZATION ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR USE ON TYPES AND SIZES OF DOORS INDICATED.

3. SUBSTITUTIONS: FURNISH ALL HARDWARE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS,

AND SCHEDULES, WITHOUT SUBSTITUTIONS. BEFORE ORDERING HARDWARE, CHECK ALL DRAWINGS

AND CODES TO INSURE THE PROPOSED HARDWARE WILL SUIT THE INTENDED SERVICE. C. <u>PRE-INSTALLATION CONFERENCE</u>: CONTRACTOR SHALL REQUIRE A HARDWARE INSTALLATION MEETING FOR THE INSTALLATION OF ALL HARDWARE, INCLUDING LOCKS, CLOSERS, EXIT DEVICES, HINGES, ETC., TO BE CONDUCTED BY THE MANUFACTURING REPRESENTATIVES TO BE HELD AT THE JOBSITE AND ATTENDED BY ALL INSTALLERS OF FINISH HARDWARE. MEETING WILL ADDRESS PROPER COORDINATION AND INSTALLATION OF FINISH HARDWARE AS DETAILED IN THE HARDWARE SCHEDULE FOR THE PROJECT WITH THE USE OF INSTALLATION MANUALS, TEMPLATES, HARDWARE SCHEDULES AND PHYSICAL

- 1. <u>KEYS AND KEYING</u>: KEY AND MASTER KEY ALL LOCKS IN ACCORDANCE WITH THE EXISTING MASTER-KEY SYSTEM ACCEPTED MASTER-KEY SCHEDULE. FURNISH TWO (2) CHANGE KEYS FOR
- EACH LOCK AND THREE (3) MASTER KEYS. DELIVER MASTER KEYS DIRECTLY TO THE OWNER. E. HARDWARE FINISH: HARDWARE SHALL MATCH EXISTING SURROUNDING PERMANENT FINISHES, UNLESS SPECIFICALLY INDICATED OTHERWISE. VERIFY EXISTING FINISHES IN FIELD.
- F. FINISH HARDWARE SCHEDULE:

PENTHOUSE DOOR SHALL INCLUDE:

- 3 HINGES, McKINNEY, T4A 3386, 4-1/2 x 4-1/2, NRP, USP LOCKSET, SARGENT, 8243, LNJ, US26D CLOSER, SARGENT, 1430-RUO, EN
- THRESHOLD, NATIONAL GUARD, 513 x REQ'D. SET WEATHERSTRIPPING, NAT. GUARD, #5050 SELF-ADHESIVE GASKETING
- 1 DOOR SWEEP, NAT. GUARD, 100V-36, ALUM. 1 RAIN DRIP, NAT. GUARD, 16A, ANODIZED ALUM. DRIP STRIP #16A

- 1. ALL FINISH HARDWARE FOR HOLLOW METAL DOORS WILL BE PROVIDED BY THE FINISH HARDWARE CONTRACTOR INSTALL AND ADJUST ALL HARDWARE PROPERLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ATTACH AND SECURE THE HARDWARE SO THAT NO PARTS ARE DAMAGED OR INJURED. INSTALL WEATHERSTRIPPING, DOOR SWEEPS, AND OVERHEAD RAIN DRIPS
- 2. HARDWARE SHALL BE COMPLETELY FITTED BEFORE THE FINAL COAT OF PAINT OR OTHER FINISH IS APPLIED, AND THEN REMOVED FOR THE FINAL COAT. MORTISE AND CUTTING SHALL BE DONE NEATLY AND EVIDENCE OF CUTTING SHALL BE CONCEALED IN THE FINISHED WORK. HARDWARE SHALL BE PERMANENTLY INSTALLED AFTER FINISHING OPERATIONS ARE COMPLETE AND DRY. PROTECT KNOBS/LEVERS FROM SCRATCHING OR OTHER DAMAGE, ADJUST HARDWARE, AND TURN OVER TO THE OWNER, IN PERFECT OPERATING CONDITION. TAG KEYS AND TURN OVER TO THE OWNER AT THE

TIME OF ACCEPTANCE OF THE PROJECT.

- H. FINAL ADJUSTMENT: 1. FURNISH THE SERVICES OF A COMPETENT HARDWARE SPECIALIST TO INSPECT THE INSTALLATION OF ALL EXISTING AND NEW HARDWARE FURNISHED, AND REPORT ANY INSTALLATION ADJUSTMENTS
- NECESSARY TO HAVE ALL HARDWARE IN PERFECT WORKING ORDER, BEFORE FINAL PAYMENT. 2. REPLACE UNITS WHICH CANNOT BE ADJUSTED FOR PROPER OPERATION.
- 3. FINAL ADJUSTMENT MUST OCCUR WITHIN ONE (1) WEEK OF OCCUPANCY BY THE OWNER. 4. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL AS A CONDITION OF ITS

ACCEPTANCE, DELIVER TO THE ARCHITECT, A REPORT STATING THAT THE CONTRACTOR'S

INSPECTION WAS MADE, THAT ALL RECOMMENDED ADJUSTMENTS HAVE BEEN COMPLETED, AND

THAT ALL FINISH HARDWARE FURNISHED UNDER THIS SECTION HAS BEEN INSTALLED AND IS IN OPTIMUM WORKING CONDITION. END OF SECTION

A. WORK INCLUDED:

1. PREPARATION OF SURFACES FOR PAINTING AND FINISHING.

2. APPLICATION OF PAINT ON EXPOSED SURFACES AS INDICATED ON THE DRAWINGS.

3. PAINTING OF EXPOSED NEW EXTERIOR METAL AS INDICATED ON THE DRAWINGS, INCLUDING SUCH ITEMS AS GAS LINES OR CONDUITS.

B. WORK NOT INCLUDED: UNLESS OTHERWISE INDICATED, DO NOT INCLUDE PAINTING WHEN FACTORY-FINISHING, TENANT/OWNER FINISHING, OR INSTALLER-FINISHING IS SPECIFIED.

C. JOB CONDITIONS:

- PROTECTION: PROTECT FINISH WORK FROM DAMAGE. CLEAN SPLATTER FROM FINISHED SURFACES MMEDIATELY. PAY THE COSTS FOR REMEDIAL WORK REQUIRED TO CORRECT ANY DAMAGE. PROVIDE PROTECTIVE COVERINGS AS REQUIRED TO PROTECT FINISHED SURFACES. AND POST WET PAINT SIGNS TO PROTECT NEWLY PAINTED SURFACES. AT COMPLETION OF PROJECT, TOUCH-UP ALL AREAS OF MARRED, MISSING OR DAMAGED FINISH. EVERY PRECAUTION MUST BE TAKEN TO AVOID SPONTANEOUS COMBUSTION OF PAINT PRODUCTS OR WASTE MATERIAL.
- 2. <u>ENVIRONMENTAL CONDITIONS</u>: APPLY MATERIALS IN TEMPERATURE RANGES SUITABLE FOR THE FORMATION OF GOOD DURABLE FILMS. DO NOT APPLY PAINT WHEN THE RELATIVE HUMIDITY EXCEEDS 85%. APPLY PAINTS ONLY TO SURFACES COMPLETELY FREE OF SURFACE MOISTURE.
- a. DO NOT APPLY PAINT WHEN THE TEMPERATURE OF THE SURFACES TO BE PAINTED, AND OF THE SURROUNDING ATMOSPHERE IS BELOW 50°F FOR WATER THINNED COATINGS AND BELOW 45°F FOR OTHER COATINGS. WHEN THE PAINT MANUFACTURERS SPECIFICATIONS OR INSTRUCTIONS DIFFER FROM THESE SPECIFICATIONS, APPLY BY THE MORE STRINGENT REQUIREMENTS.

D. PAINT COLORS: EXTERIOR COLORS SHALL MATCH EXISTING PAINTED SURFACES AS APPROVED BY

OWNER AND/OR ARCHITECT OR AS INDICATED ON THE DRAWING. E. MATERIALS:

GRADE PRODUCT, WILL NOT BE ACCEPTABLE.

MANUFACTURERS: BENJAMIN MOORE® & CO. (BM), ICI PAINTS (DEVOE®, DULUX®, GLIDDEN, ICI), PITTSBURGH® PAINTS (PPG), PRATT & LAMBERT PAINTS, DIV. SHERWIN-WILLIAMS® COMPANY (P&L), OR SHERWIN-WILLIAMS® COMPANY (S-W).

2. PAINT GRADE: PROVIDE LEAD AND ZINC CHROMATE FREE, COMMERCIAL QUALITY GRADE COATINGS. MATERIALS NOT DISPLAYING IDENTIFICATION OF MANUFACTURER AS A STANDARD, COMMERCIAL

- 3. <u>SUBSTITUTIONS OF MANUFACTURERS AND PRODUCTS</u>: IF CONTRACTOR DESIRES TO USE MATERIALS OF A MANUFACTURER OTHER THAN SPECIFIED HEREIN, THE REQUEST SHALL BE MADE IN WRITING TO THE ARCHITECT, GIVING THE NAME OF THE MANUFACTURER AND THE SPECIFIC NAME OF EACH PRODUCT OFFERED AS A SUBSTITUTE, AND SHALL STATE THE AMOUNT, IF ANY, TO BE ADDED TO OR
- 4. <u>COLOR IDENTIFICATION AND SELECTION</u>: PREPARE TWO (2) 8" X 10" SAMPLES OF EACH COLOR REQUIRED UNTIL COLORS AND TEXTURES ARE SATISFACTORY TO THE ARCHITECT AND/OR OWNER.
- 5. CLAIMS: NO CLAIM AS TO THE UNSUITABILITY OF MATERIALS SPECIFIED, OR TO PRODUCE FIRST CLASS WORK WITH THE MATERIALS WILL BE CONSIDERED, UNLESS CLAIM IS MADE IN WRITING AT THE TIME OF SUBMITTING PROPOSAL

F. EXISTING METAL SURFACE PRETREATMENT:

- 1. THOROUGHLY CLEAN ALL PREVIOUSLY PAINTED STEEL SURFACES NOTED ON THE DRAWINGS TO BE PAINTED, AND/OR AS REQUIRED BY FIELD CONDITIONS.
- 2. AFTER CLEANING, PROVIDE COLD PHOSPHATIZING OF THE EXISTING STEEL SURFACES BY PROVIDING A FIELD APPLIED WASH PRIMER OR OTHER COMPARABLE METHOD RECOMMENDED BY THE PAINT MANUFACTURER TO PROVIDE AN EFFECTIVE TREATMENT FOR PROMOTING PAINT ADHESION TO THE STEEL SURFACES.
- 3. COMPARABLE TREATMENTS SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT.

- DEFECTIVE SURFACES: IF DEFECTIVE SURFACES ARE PAINTED, THE REFINISHING OF SUC SURFACES, AFTER REMEDIAL WORK REQUIRED BY THE DEFECTIVE SURFACES, SHALL BE DONE AT THE EXPENSE OF THE PAINTING CONTRACTOR. START OF WORK WILL BE CONSTRUED AS THE PAINTING CONTRACTOR'S ACCEPTANCE OF THE SURFACE.
- 2. DETRIMENTAL CONDITIONS: DO NOT PAINT OVER DIRT, RUST, SCALE, GREASE, MOISTURE, SCUFFEI SURFACES, OR CONDITIONS DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM FINISH.

ITEMS UPON COMPLETION.

1. EXTERIOR -FERROUS METALS:

- . <u>GENERAL</u> <u>PROCEDURES</u>: BEFORE PAINTING, USE ONLY SKILLED MECHANICS TO REMOVE ACCESSORIES, PLATES, LIGHTING FIXTURES, AND SIMILAR ITEMS AS REQUIRED, AND PROVIDE AMPLE PROTECTION. UPON COMPLETION OF EACH AREA, REPLACE ABOVE ITEMS. WHEN NECESSARY DISCONNECT ITEMS SUCH AS FIXTURES, TO PERMIT PAINTING. REINSTALL AND RECONNECT
- 2. PROTECTION: PROPERLY PROTECT FLOORS, AND OTHER PREFINISHED MATERIALS FROM DAMAGE DUE TO PAINT SPOTS. REPAIR DAMAGE TO ITEMS THROUGH NEGLECT OR CARELESSNESS FROM PAINTERS OR FROM FAILURE TO PROPERLY PROTECT, TO THE SATISFACTION OF THE OWNER AND/OR
- 3. PAINT REMOVAL WORK: REMOVE ALL PAINT FROM WORK NOT DESIGNATED TO BE PAINTED.

4. TOUCH-UP WORK: DO ALL NECESSARY TOUCHING-UP AFTER OTHER MECHANICS HAVE COMPLETED THEIR WORK, AND LEAVE THE ENTIRE WORK IN A NEAT AND CLEAN CONDITION TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

- . <u>TYPE OF FINISH AND NUMBER OF COATS:</u> ACCORDING TO THE SPECIFIED PAINT MANUFACTURERS. THE TYPE OF FINISH AND NUMBER OF COATS SPECIFIED ARE ADEQUATE TO PROVIDE COLOR AND COVERAGE, WHEN PROPERLY APPLIED. IF, AFTER THE SPECIFIED NUMBER OF COATS ARE APPLIED ADEQUATE COLOR, AND COVERAGE HAVE NOT BEEN ACHIEVED, IT SHALL BE THE RESPONSIBILITY OF THE PAINTING CONTRACTOR TO APPLY ADDITIONAL COATS, AT NO EXTRA COST TO THE OWNER, UNTIL ARCHITECT STATES ACCEPTABLE PERFORMANCE AND FINISH IS OBTAINED.
- . <u>Painting</u> <u>Schedule</u>: Provide the following paint systems specified herein, or other OMPARABLE SPECIFIED MANUFACTURERS AND THEIR EQUIVALENT PRODUCTS, SUBJECT TO REVIEW BY

a. <u>SEMI-GLOSS FINISH</u>: EXPOSED NEW CONSTRUCTION SURFACES SHALL RECEIVE THE FOLLOWING

1.b. <u>TWO (2) FINISH COATS</u>: (S-W) METALATEX® SEMI-GLOSS COATING, B42 SERIES. 2. EXTERIOR - GALVANIZED FERROUS METALS:

1.a. ONE (1) PRIME COAT: (S-W) DTM ACRYLIC PRIMER/FINISH, B66W1

- a. <u>SEMI-GLOSS FINISH</u>: EXPOSED NEW CONSTRUCTION SURFACES SHALL RECEIVE THE FOLLOWING SYSTEM: 1.a. ONE (1) PRIME COAT: (S-W) DTM ACRYLIC PRIMER/FINISH, B66W1
- 1.b. TWO (2) FINISH COATS: (S-W) A-100® EXTERIOR LATEX SATIN, A82 SERIES. 2. EXTERIOR-HOLLOW METAL DOORS AND PRESSED STEEL DOOR FRAMES:
- a. <u>SEMI-GLOSS FINISH</u>: EXPOSED SURFACES AS NOTED ON THE DRAWINGS (INCLUDING ALL EDGES AND EXTERIOR FACE OF DOORS) SHALL RECEIVE THE FOLLOWING SYSTEM: 1.a. ONE (1) PRIME COAT: (S-W) DTM ACRYLIC PRIMER/FINISH, B66W1, FOR EXTERIOR AND

). <u>Rain Drips:</u> Aluminum rain drips at Pressed Steel (Hollow Metal) door frames shall

- 1.b. TWO (2) FINISH COATS: (S-W) A-100® EXTERIOR LATEX SATIN, A82 SERIES, FOR EXTERIOR
- RECEIVE THE FOLLOWING SYSTEM: 1.a. ONE (1) PRIME COAT: (S-W) DTM BONDING PRIMER, B66A50.

1.b. TWO (2) FINISH COATS: (S-W) A-100® EXTERIOR LATEX SATIN, A82 SERIES.

END OF SECTION SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES

- A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. B. FIRE EXTINGUISHERS: 1. PROVIDE SIZE, TYPE, AND QUANTITIES AS REQUIRED BY FIRE MARSHAL. FOR "BIDDING PURPOSES" EXTINGUISHERS AS SPECIFIED HEREIN SHALL BE PORTABLE, HAND-CARRIED TYPE, PRESSURIZEI DRY CHEMICAL FIRE EXTINGUISHERS. 10 POUND NOMINAL CAPACITY. WITH SELF-CLOSING HAND
- AMMONILIM PHOSPHATE POWDER MANUFACTURER: LARSEN'S® MANUFACTURING COMPANY MINNEAPOLIS, MN, (763)571-1181 OR (800)527-7367, MODEL NUMBER MP10.

2. PROVIDE MANUFACTURER'S STANDARD MOUNTING BRACKETS AND ANCHORS.

C. <u>INSTALLATION OF ACCESSORIES</u>: 1. MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED TO THE CARPENTRY CONTRACTOR FOR INSTALLATION.

2. PROTECTIVE COVERS INSTALLED BY MANUFACTURER TO PROTECT FINISHES SHALL NOT BE

END OF SECTION

REMOVED UNTIL FINAL CLEANING.



*** $|\mathcal{Z}|$

 \bigcirc

VALVE, DISCHARGE HOSE, PRESSURE GAUGE, AND RED ENAMEL FINISH. UL RATING 4A-80B:C FOR Date Issued CLASS A, B, AND C FIRES. UNITS SHALL CONTAIN SPECIALLY FLUIDIZED AND SILICONIZED MONO

3ids & Permit 12/23/2020

SHEET TITLE

SPECIFICATIONS

Job Number

Sheet Number