PRESERVATIVE TREATMENT: PROVIDE PRESERVATIVE TREATED WOOD WHERE INDICATED IN THE DRAWINGS AND AS FOLLOWS: WOOD CANTS, NAILERS, CURBS, BLOCKING, STRIPPING AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING; AND WOOD WILLS SLEEPERS, BLOCKING, STRIPPING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE. PRESERVATIVE TREATMENT SHALL BE WATER BORNE MATERIAL COMPLYING WITH AWPB LP-2, KILN-DRIED TO 19% MAXIMUM MOISTURE CONTENT FOR LUMBER AND 15% FOR PLYWOOD.

INSTALLATION: SET ROUGH CARPENTRY ACCURATELY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB AND TRUE AND ACCURATELY CUT AND FITTED. SECURELY ATTACH WORK TO SUBSTRATE.

SHEATHING: PLACE ROOF AND WALL SHEATHING WITH END JOINTS, STAGGERED. SECURE SHEETS OVER FIRM BEARING. MAINTAIN MINIMUM 1/16 INCH AND MAXIMUM 1/8 INCH SPACING BETWEEN JOINTS OF SHEETS ON WALLS. PLACE PERPENDICULAR TO FRAMING MEMBERS.

1.01 SUBMITTALS
A. SUBMIT PRODUCT DATA ON WOOD PRESERVATIVE MATERIALS, INCLUDING APPLICATION INSTRUCTIONS.
B. SUBMIT INVOICES SHOWING THE VENDOR'S FOREST STEWARDSHIP COUNCIL CHAIN-OF-CUSTODY CERTIFICATE NUMBER AND IDENTIFYING FSC-CERTIFIED PRODUCTS ON AN ITEM-BY-ITEM BASIS AS DOCUMENTATION THAT AN FSC-ACCREDITED ORGANIZATION HAS CERTIFIED THAT THE WOOD OR WOOD PRODUCTS ARE FROM A WELL-MANAGED FOREST.

1.02 DELIVERY, STORAGE, AND HANDLING
A. PROTECT FRAMING LUMBER, SHEATHING, AND ENGINEERED WOOD PRODUCTS FROM EXCESSIVE HUMIDITY AND MOISTURE. STORE WOOD I-BEAMS, FLINCH BEAMS, AND JOIST ON EDGE.

PRODUCTS

2.01 MATERIALS
A. CERTIFIED DIMENSIONAL LUMBER: FSC-CERTIFIED, SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.
B. ENGINEERED WOOD PRODUCTS:
1. WOOD I-BEAMS: JOISTS, RAFTERS; TO BE FSC-CERTIFIED, SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.
2. WOOD TRUSSES: TO BE CONSTRUCTED OF FSC-CERTIFIED LUMBER, SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.

D. SHEET MATERIALS:
1. ORIENTED-STRAND BOARD (OSB): FSC-CERTIFIED
2. PLYWOOD: FSC-CERTIFIED
3. STRUCTURAL FIBERBOARD: MANUF. FROM 100% POST-CONSUMER NEWSPRINT
4. MEDIUM DENSITY FIBERBOARD: FORMALDEHYDE-FREE, MANUFACTURED WITH PMDI BINDERS
5. PARTICLE BOARD:
a. STRAW-BASED PARTICLEBOARD: MANUFACTURED WITH PMDI BINDERS
b. FSC-CERTIFIED PARTICLE BOARD
6. STRUCTURAL INSULATED PANELS (SIPs): OSB SKIN BONDED TO EXPANDED POLYSTYRENE OR AGFIBER CORE
7. RADIANT BARRIER SHEET MATERIAL: FOIL FACED PLYWOOD, OSB, OR RECYCLED PAPER.

E. ROT AND INSECT-RESISTANT WOOD:
1. UNTREATED, NATURALLY ROT-RESISTANT, HEART WOOD-INCLUDING, BUT NOT LIMITED TO, REDWOOD, WESTERN RED CEDAR, BALD CYPRESS, LONGLEAF YELLOW PINE, ELM, BLOCK LOCUST, AMERICAN CHESTNUT, AND ANGICO-FROM ONE OF THE FOLLOWING SOURCES:

a. FSC-CERTIFIED
b. SALVAGED

2. PRESSURE-TREATED WOOD FSC-CERTIFIED: MINIMIZE CUTTING, AVOID BREATHING SAWDUST.

a. ACQ-AMMONIACAL COPPER QUARTERNARY COMPOUND: PRESSURE-INJECTED WOOD THAT DOES NOT USE ARSENIC OR CHROMIUM

1. ABOVE-GROUND: 0.25 LBS. RETENTION/CU. FT.
2. GROUND CONTACT: 0.40 LBS. RETENTION/CU. FT.
3. WOOD FOUNDATIONS: 0.60 LBS. RETENTION/CU. FT.
4. PILINGS: 0.80 TO 1.0 LBS. RETENTION/CU. FT.

b. BORATE: FRAMING LUMBER AND PLYWOOD PRESSURE TREATED WITH SODIUM BORATE AND OSB SHEATHING PRODUCTS WITH INTEGRAL ZINC BORATE RECENTLY INTRODUCED; APPROPRIATE FOR INTERIOR APPLICATIONS-DO NOT USE WHERE EXPOSED WEATHER OR GROUND CONTACT.
c. SODIUM SILICATE WOOD MINERALIZATION PROCESS: FRAMING LUMBER AND PLYWOOD PRESSURE-AND HEAT-TREATED WITH SODIUM SILICATE RECENTLY INTRODUCED; APPROPRIATE FOR INTERIOR AND EXTERIOR APPLICATIONS, INCLUDING GROUND CONTACT; NOT YET LISTED WITH THE ICC.

2.02 RELATED MATERIALS
A. FASTENERS: USE HIGHEST RECYCLED-CONTENT STEEL AVAILABLE, FOR ACQ OR COPPER AZOLE; USE ONLY STAINLESS STEEL OR HOT-DIP GALVANIZED FASTENERS.
B. CONSTRUCTION ADHESIVES: WATER BASED, MAXIMUM VOCs: 15 GRAMS/LITER
C. BUILDING FELT: MINIMUM 30% RECYCLED FIBER CONTENT
D. SILL SEALER: FOAM SEALER TO MATCH WIDTH OF SILL PLATE

PART 3 EXECUTION

3.01 INSTALLATION

A. PROTECT FRAMING, JOIST AND SHEATHING FROM MOISTURE DURING DELIVERY, INSTALLATION, AND USE.
B. USE ADVANCED-FRAMING TECHNIQUES DEVELOPED BY THE NATIONAL ASSOCIATION OF HOME BUILDERS RESEARCH CENTER. COMPLY WITH STRUCTURAL LOADING REQUIREMENTS OF UBC AND STRUCTURAL ENGINEER.

WASTE MANAGEMENT:
A. SEPARATE WOOD WASTE IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN.
B. SEPARATE THE FOLLOWING CATEGORIES FOR SALVAGE OR REUSE ON SITE:
1. SHEET MATERIALS LARGER THAN 2 SQ. FT.
2. FRAMING MEMBERS LARGER THAN 16"
3. MULTIPLE OFFCUTS OF ANY SIZE LARGER THAN 12"

C. SET ASIDE DAMAGED WOOD FOR ACCEPTABLE ALTERNATIVE USES; FOR EXAMPLE, USE AS BRACING, BLOCKING, CRIPPLES, OR TIES.

D. DO NOT BURN LUMBER THAT IS LESS THAN A YEAR OLD.

E. SEPERATE THE FOLLOWING CATEGORIES FOR DISPOSAL AND PLACE IN DESIGNATED AREAS FOR HAZARDOUS MATERIAL:

1. TREATED, STAINED, PAINTED, OR CONTAMINATED WOOD

F. SEQUENCE WORK TO MINIMIZE USE OF TEMPORARY HVAC TO DRY OUT BUILDING AND CONTROL HUMIDITY.

FINISH CARPENTRY SECTION 06200

PROVIDE MISCELLANEOUS FINISH CARPENTRY ITEMS AS SHOWN ON THE DRAWINGS.
INSTALLATION: INSTALL WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. SCRIBE AND CUT TO FIT ADJOINING WORK. INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE, USING FULL-LENGTH PIECES TO THE GREATEST EXTENT POSSIBLE. COPE AT RETURNS, MITER AT CORNERS, AND USE SCARF JOINTS FOR END-TO-END JOINTS TO PROVIDE TIGHT FITTING JOINTS WITH FULL SURFACE CONTACT THROUGHOUT LENGTH OF JOINT.

ANCHOR TO BLOCKING OR DIRECTLY TO SUBSTRATE WITH COUNTERSUNK, CONCEALED FASTENERS AND BLIND NAILING WHERE POSSIBLE. ANCHOR COUNTERTOPS SECURELY TO SUPPORT SYSTEMS AS INDICATED. AT DRYWALL PARTITIONS, WHERE BLOCKING DOES NOT EXIT, USE ADHESIVE AND PRE-DRILLED COUNTERSUNK TRIM-HEAD SHEET-METAL SCREWS TO ATTACH FINISH CARPENTRY TO METAL STUDS. FILL RECESS TO MATCH SURFACE COLOR OF WOOD.

1.02 INDOOR AIR QUALITY
A. SOME ENGINEERED WOOD PRODUCTS MADE WITH INTERIOR GLUES CONTAIN UREA-FORMALDEHYDE. DO NOT USE WOOD PRODUCTS CONTAINING UREA-FORMALDEHYDE BINDERS. OR SEAL ALL SURFACES.
B. MACHINING PLASTIC PRODUCTS PRODUCES HAZARDOUS DUST. PROTECT SURROUNDING AREAS FROM DUST. WEAR APPROPRIATE PROTECTION.

PART 2 PRODUCTS

2.01 INTERIOR MILLWORK
A. BASE, CASING, TRIM INTERIOR RAIL AND WALL CAPS, AND MISCELLANEOUS MILLWORK:
1. MATERIALS SUITABLE FOR CLEAR FINISH:
a. FSC-CERTIFIED, SOLID DIMENSIONAL LUMBER
b. SALVAGED, REMILLED LUMBER

B. PANELING
1. PLYWOOD:
a. FSC-CERTIFIED PLYWOOD
b. FSC-CERTIFIED FACE VENEERS OVER FORMALDEHYDE-FREE MDF CORE

C. VENEER PANELS:
1. SUBSTRATE
a. FORMALDEHYDE-FREE MDF
b. STRAWBOARD: PARTICLEBOARD MADE FROM STRAW WITH PMDI BINDERS
2. VENEERS: FSC-CERTIFIED

2.02 EXTERIOR MILLWORK
A. FASCIA, TRIM, SIDING, FENCING, LATTICE, AND MISCELLANEOUS MILLWORK:

1. DIMENSIONAL LUMBER:
a. ROT-RESISTANT SPECIES SUCH AS CEDAR OR CYPRESS LOCALLY AVAILABLE, ROT-RESISTANT SPECIES, FSC-CERTIFIED

CUSTOM CASEWORK SECTION 06400

PROVIDE SHOP-FABRICATED WOOD CASEWORK, FURNITURE ITEMS, AND MISCELLANEOUS ITEMS AS INDICATED IN THE DRAWINGS.

QUALITY ASSURANCE: COMPLY WITH AWI "QUALITY STANDARDS" SECTION 400 FOR "CUSTOM" GRADE.
SUBMIT SHOP DRAWINGS TO SHOW LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE SCALE DETAILS, ATTACHMENTS DEVICES AND OTHER COMPONENTS. THE ARCHITECT'S REVIEW OF SUCH DRAWINGS WILL BE FOR DESIGN CONFORMANCE ONLY.

VERIFY FIELD MEASUREMENTS AND PROVIDE DIMENSIONS FOR SHOP DRAWINGS BEFORE FABRICATION.
CASEWORK MATERIALS: SHALL BE AS SHOWN ON THE MILLWORK DRAWINGS.

GENERAL FABRICATION & ASSEMBLY:

SHOP FABRICATE CASEWORK TO DIMENSIONS, PROFILES, AND DETAILS INDICATED ON SHOP DRAWINGS. WHERE NECESSARY FOR FITTING AT SITE, PROVIDE AMPLE ALLOWANCE FOR SCRUBBING, TRIMMING, AND FITTING. COMPLETE FABRICATION, FINISHING, HARDWARE APPLICATION AND OTHER WORK BEFORE SHIPMENT TO PROJECT SITE TO MAXIMUM EXTENT POSSIBLE.

SHOP ASSEMBLY: COMPLETELY ASSEMBLE COUNTERFRONT, CABINETS, COUNTERTOPS, POSTS, AND GLAZING IN SHOP PRIOR TO SHIPMENT TO PROJECT SITE. MAKE INDIVIDUAL ITEMS IN SEQUENCE WITH REMOVABLE MATERIALS TO FACILITATE FIELD ASSEMBLY.

FIELD INSTALLATION:
INSTALL CASEWORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. INSTALL TO A TOLERANCE OF 1/8" IN 8'-0" FOR PLUMB AND LEVEL AND WITH NO VARIATIONS IN FLUSHNESS OF ADJOINING SURFACES. SCRIBE AND CUT TO FIT ADJOINING WORK. ANCHOR TO BLOCKING OR DIRECTLY TO SUBSTRATES WITH DISTORTION SO THAT CABINET DOORS FIT OPENINGS PROPERLY AND ARE ACCURATELY ALIGNED. ADJUST HARDWARE TO CENTER DOORS IN OPENINGS AND TO PROVIDE FREE OPERATION. ANCHOR COUNTERTOPS SECURELY TO BASE UNITS AND OTHER SUPPORT SYSTEMS AS INDICATED.
ADJUST AND CLEAN: REPAIR DAMAGED AND DEFECTIVE CASEWORK WHERE POSSIBLE TO ELIMINATE DEFECTS, WHERE NOT POSSIBLE TO REPAIR, REPLACE CASEWORK. CLEAN, LUBRICATE AND ADJUST HARDWARE FOR SMOOTH OPERATION.
A. CARCASSES AND SUBSTRATES:
1. MEDIUM-DENSITY FIBERBOARD: FORMALDEHYDE-FREE
2. FSC-CERTIFIED PLYWOOD
3. SOLID DIMENSIONAL LUMBER: FSC-CERTIFIED
4. AG-FIBER BOARD: FORMALDEHYDE-FREE

B. FACE FRAMES, DOORS, DRAWERS:
1. SOLID DIMENSIONAL LUMBER: FSC-CERTIFIED OR SALVAGED
2. VENEERS: WOOD: FSC-CERTIFIED

MISCELLANEOUS MATERIALS
A. ADHESIVES:
1. INTERIOR WOODWORK AND MILLWORK: LOW-VOC, FS MMM-A-125C, TYPE II, WATER-AND MOLD RESISTANT. USE ASTM D3110, DRY-USE TYPE FOR LAMINATED AND FINGER-JOINTED MEMBERS, CERTIFIED IN ACCORDANCE WITH ASTM C557 AND COMPLYING WITH REQUIRED VOC REGULATIONS.
a. WATER-BASED CONTACT CEMENT
b. WATER-BASED CONSTRUCTION ADHESIVES

2. EXTERIOR MILLWORK: ANSI/HPMA HP1983, TYPE I, AIR-CURE WATERPROOF TYPE. USE ASTM D3110, WET-USE TYPE FOR LAMINATED AND FINGER-JOINTED MEMBERS.

WASTE MANAGEMENT

A. SEPARATE WOOD WASTE IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN.

B. SEPARATE THE FOLLOWING CATEGORIES FOR SALVAGE OR REUSE ON SITE:
1. SHEET MATERIALS LARGER THAN 2 SF
2. SOLID WOOD: a. TRIM LONGER THAN 16"
b. MULTIPLE OFFCUTS OF ANY SIZE LARGER THAN 12"

C. RECYCLE THE FOLLOWING CATEGORIES:
1. CLEAN, UNPAINTED ENGINEERED WOOD PRODUCTS
2. CLEAN, UNPAINTED DIMENSIONAL LUMBER

D. SEPARATE THE FOLLOWING CATEGORIES FOR DISPOSAL AND PLACE IN DESIGNATED AREAS FOR HAZARDOUS MATERIALS:
1. TREATED, STAINED, PAINTED, OR CONTAMINATED WOOD.

BUILDING INSULATION SECTION 07200

PROVIDE AND INSTALL RIGID BOARD WALL INSULATION WITH VAPOR BARRIER, WHERE INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

GLASS FIBER BLANKET BATT INSULATION: GLASS FIBERS FORMED WITH BINDERS INTO RESILIENT FLEXIBLE BLANKETS OR SEMI-RIGID BUTTS; ASTM C665 TYPES 1,11, OR 111; UNFACED OR FACED UNITS AS INDICATED, DENSITIES OF NOT LESS THAN 0.5 LB. PER CU. FT., K- VALUE OF 0.27; MANUFACTURER'S STANDARD LENGTHS AND WIDTHS AS REQUIRED TO COORDINATE WITH SPACES TO BE INSULATED.

POLYETHYLENE VAPOR BARRIER: 10-MIL POLYETHYLENE FILM

INSTALL INSULATION IN FULL THICKNESS AS SHOWN OVER ENTIRE AREA TO BE INSULATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS, AND FILL VOIDS WITH INSULATION. REMOVE PROJECTIONS WHICH INTERFERE WITH PLACEMENT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

MATERIALS
A. THERMAL BATT INSULATION
1. FORMALDEHYDE-FREE FIBERGLASS BATTS: MADE WITH LOWER TOXICITY ACRYLIC RESIN.
2. STANDARD GLASS FIBER: MINIMUM 15% POST-CONSUMER RECYCLED CONTENT, MINIMUM 30% TOTAL RECYCLED CONTENT
3. FACING:
a. FOIL: PROVIDE RADIANT BARRIER PROTECTION FROM GLASS FIBERS
b. KRAFT PAPER
c. ENCAPSULATED: PROVIDES PROTECTION FROM GLASS FIBERS
d. UNFACED: USE FOR SOUND INSULATION OR WHEN A SEPARATE VAPOR RETARDER IS USED.

B. RIGID BOARD INSULATION
1. CELLULAR GLASS FOAM: INERT, NONTOXIC, SUITABLE FOR USE BELOW GRADE.
2.EXPANDED POLYSTYRENE: RECYCLED CONTENT MINIMUM 20%
3.EXTRUDED POLYSTYRENE: 5% RECYCLED CONTENT

FOAM PLASTIC INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 75 & A SMOKE DEVELOP INDEX OF NOT MORE THAN 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723

INSULATION MATERIALS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 & A SMOKE DEVELOP INDEX OF NOT MORE THAN 450

ROOFING (B.U.R.) SECTION 07500

TYPE OF MODIFIED BITUMINOUS SHEET ROOFING SYSTEM SPECIFIED IN THIS SECTION IS COMPRISED OF A PROTECTIVE LAYER (2 PLIES OF HOT MOPPED FIBERGLASS FELT), A MECHANICALLY FASTENED BASE SHEET, AND 2-PLIES CONSISTING OF ELASTOMERIC ASPHALT REINFORCED WITH A FIBERGLASS MAT, THE TOP PLY BEING A MINERAL SURFACED CAP SHEET. ROOFING SYSTEM SHALL MEET THE WIND UPLIFT REQUIREMENTS OF ASCE 7-99.

THE TOTAL "R-VALUE" OF 30 MIN. REQUIRED IS FOR THE ENTIRE ROOF ASSEMBLY SYSTEM. INCLUDING STRUCTURAL COMPONENTS AND AIR FILMS. CEILING AND PLENUM SPACES SHALL NOT BE USED IN CALCULATING TOTAL "R-VALUE".

SUBMITTALS:

PRODUCT DATA: SUBMIT MANUFACTURER'S TECHNICAL PRODUCT DATA, INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS FOR EACH TYPE OF ROOFING PRODUCT REQUIRED.

1. SUBMIT DATA SUBSTANTIATING THAT MATERIALS COMPLY WITH REQUIREMENTS.

2. SUBMIT COPIES OF MEMBRANE MANUFACTURER'S APPLICABLE FLASHING DETAIL SHEETS.

FOR ASPHALT BITUMEN, PROVIDE LABEL ON EACH CONTAINER OR CERTIFICATION WITH EACH DELIVERY OF ASPHALT, INDICATING FLASH POINT (FP), FINISHED BLOWING TEMPERATURE (FBT), SOFTENING POINT (SP) AND EQUIVISCOUS TEMPERATURE (EVT).

SAMPLES: SUBMIT FOR EACH ROOFING MATERIAL INCLUDING, BUT NOT LIMITED TO, ROOFING FELTS, BASE SHEET, AND MINERAL SURFACE CAP SHEET. SUBMIT WITH MANUFACTURER'S LABEL ATTACHED, AND FASTENERS APPROPRIATE FOR USE.

GUARANTEE REQUIREMENTS:
- MANUFACTURER'S 20 YEAR N.D.L. GUARANTEE.
- INSTALLERS 2 YEAR GUARANTEE

NOTE: ONLY MANUFACTURER'S APPROVED APPLICATORS WILL BE ALLOWED TO PERFORM N.D.L. WORK. NO OTHER INSTALLERS WILL BE APPROVED.

SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS, PROVIDE MODIFIED BITUMEN MEMBRANE ROOFING BY THE FOLLOWING:

1. SIPLAST PARADIENE 20/30 WITH PARADIENE 30 CR FR TOP PLY ALTRERNATIVES TO BE APPROVED BY ARCHITECT.

* ALL SYSTEMS USED SHALL HAVE THE APPROVALS OF THE GOVERNING JURISDICTION AND BE ENERGY STAR RATED.

SEALANT SECTION 07900

PROVIDE AND INSTALL SEALANTS COMPLYING WITH REQUIREMENTS INCLUDED HEREIN, IN ORDER TO ESTABLISH AND MAINTAIN AIRTIGHT, VERMIN PROOF, AND WATER PROOF CONTINUOUS SEALS ON A PERMANENT BASIS.

1.01 SUBMITTALS
A. RATING SYSTEM DOCUMENTATION
1. PROVIDE A CUT SHEET AND/OR MATERIAL SAFETY DATA SHEET FOR EVERY SEALANT USED WITHIN THE BUILDING (NOT INCLUDING THE EXTERIOR SURFACE OF THE BUILDING), WITH VOC LEVELS HIGHLIGHTED.

PART 2 - PRODUCTS

2.01 SEALANTS MATERIALS
A. EXTERIOR GENERAL USE:
1. SINGLE-COMPONENT POLYURETHANE CONFORMING TO ASTM C920, TYPE S, CLASS 25, GRADE NS
2. SILICON: ONE-PART SILICON SEALANT, VOC CONTENT: MAXIMUM 15 GRAMS/LITER
3. ACRYLIC/SILICON: WATER-BASED SEALANT, VOC CONTENT: 31 GRAMS/LITER

B. EXTERIOR CONCEALED JOINTS AND UNDER THRESHOLDS: ONE-PART BUTYL RUBBER CAULK CONFORMING TO FS TT-S-001657, TYPE I

C. EXTERIOR CONCEALED JOINTS BETWEEN TWO ASSEMBLED RIGID SURFACES IN COMPRESSION: POLYISOBUTYLENE SEALANT TAPE CONFORMING TO AAMA 804.1

D. EXTERIOR AND INTERIOR HORIZONTAL JOINTS SUBJECT TO PEDESTRIAN TRAFFIC:
1. TWO-PART POLYURETHANE CONFORMING TO ASTM C920, CLASS 25, TYPE M; SELF-LEVELING, ZERO-VOC
2. ONE-PART POLYURETHANE, VOC CONTENT: MAXIMUM 45 GRAMES/LITER

E. INTERIOR NON-WET AREAS: ONE-COMPONENT ACRYLIC LATEX WATER-BASED SEALANT CONFORMING TO ASTM C834, VOC CONTENT: MAXIMUM 42 GRAMS/LITER

F. INTERIOR WET AREAS: ONE PART, MILDEW-RESISTANT SILICONE RUBBER CONFORMING TO ASTM C920, TYPE S, CLASS 25, GRADE NS

INSTALLATION: CLEAN JOINT SURFACES IMMEDIATELY BEFORE INSTALLATION. PRIME OR SEAL JOINT SURFACES AS RECOMMENDED BY MANUFACTURER. COMPLY WITH MANUFACTURER'S INSTRUCTIONS. FILL SEALANT ROBBET TO A SLIGHTLY CONCAVE SURFACE, SLIGHTLY BELOW ADJOINING SURFACES. WHERE SEALANT JOINTS ARE BETWEEN A HORIZONTAL SURFACE AND VERTICAL SURFACE, FILL JOINT TO FORM A MINIMUM 1/4" RADIUS CONVEX COVE, SO THAT JOINT WILL NOT TRAP MOISTURE AND DIRT. CLEAN ADJOINING SURFACES BY WHATEVER MEANS MAY BE NECESSARY TO ELIMINATE EVIDENCE OF SPILLAGE.

SEALANT AT BASE OF WATER-RESISTANT GYPSUM BOARD: PROVIDE 1/2" HIGH CONTINUOUS BEAD OF SILICONE SEALANT BETWEEN WATER-RESISTANT GYPSUM BOARD PANELS AND CONCRETE FLOORS, PRIOR TO INSTALLATION OF FLOOR AND WALL FINISHES.

SEALANTS: ACRYLIC EMULSION LATEX (TYPE C): ASTM C834, SINGLE COMPONENT, COLOR AS SELECTED; AC-20 MANUFACTURED BY PEORA.

BUTYL SEALANT (TYPE E): FS TT-S-1657, TYPE 1; SINGLE COMPONENT, SOLVENT RELEASE, NON-SKINNING, NON-SAGGING, BLACK COLOR; BC-158 MANUFACTURED BY PEORA.

POLYURETHANE SEALANT (TYPE G): ASTM C920, TYPE S. GRADE NS. CLASS 25; SINGLE COMPONENT, CHEMICAL CURING, NON-STAINING, NON- BLEEDING, CAPABLE OF CONTINUOUS WATER IMMERSION, NON-SAGGING TYPE; COLOR AS SELECTED; SIFAFLEX 1- A MANUFACTURED BY SIKO CORP.
1. ELONGATION CAPABILITY - 25 PERCENT
2. SERVICE TEMPERATURE RANGE - 40 TO 165 DEGREES F (-40 TO 74 DEGREES C)
3. SHARE A HARDNESS RANGE - 35 TO 45

POLYURETHANE SEALANT (TYPE H): ASTM C920, TYPE M, GRADE NS, CLASS 25; MULTI - COMPONENT, CHEMICAL CURING, NON-STAINING, NON- BLEEDING, CAPABLE OF CONTINUOUS WATER IMMERSION, NON-SAGGING TYPE; COLOR AS SELECTED; SIKAFLEX - 2C MANUFACTURED BY SIKA CORP.

1. ELONGATION CAPABILITY - 25 PERCENT
2. SERVICE TEMPERATURE RANGE - 40 TO 165 DEGREES F (-40 TO 74 DEGREES C).
3. SHARE A HARDNESS RANGE - 20 TO 30

SILICONE SEALANT (TYPE 1): ASTM C920, TYPE S, NS, CLASS 25, FDA APPROVED; SINGLE COMPONENT, SOLVENT CURING, NON-SAGGING, NON- STAINING, NON-BLEEDING COLOR AS SELECTED; CONSTRUCTION 1201 MANUFACTURED BY GE SILICONES.

1. ELONGATION CAPABILITY - 25 PERCENT
2. SERVICE TEMPERATURE RANGE - 80 TO 400 DEGREES F (-62 TO 204 DEGREES C).
3. SHARE A HARDNESS RANGE - 30

SILICONE SEALANT (TYPE J): ASTM C920, TYPE S, NS, CLASS 25, SINGLE COMPONENT, FUNGUS RESISTANT, CHEMICAL CURING, NON-SAGGING, NON-STAINING, NON-BLEEDING TRANSLUCENT WHITE CENTER; SANITARY 1700 MANUFACTURED BY GE SILICONES.

1. ELONGATION CAPABILITY - 25 PERCENT
2. SERVICE TEMPERATURE RANGE - 80 TO 400 DEGREES F (-62 TO 204 DEGREES C).
3. SHARE A HARDNESS RANGE - 31

ACCESSORIES: PRIMER: NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER TO SUIT APPLICATION.

JOINT CLEANER: NON-CORROSIVE AND NON-STAINING TYPE, RECOMMENDED BY SEALANT MANUFACTURER; COMPATIBLE WITH JOINT FORMING MATERIALS.

JOINT BACKING; ASTM D1056; ROUND, CLOSED CELL POLYETHLENE FOAM ROD; OVERSIZED 30 TO 50 PERCENT LARGER THAN JOINT WIDTH, GREEN ROD MANUFACTURER TO SUIT APPLICATION.

WOOD DOORS SECTION 08210

PROVIDE AND INSTALL WOOD DOORS WHERE NOTED ON THE DRAWINGS, AS SPECIFIED HEREIN AND IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF NWWDA INDUSTRY STANDARD I.S. 1-A AND AWI "ARCHITECTURAL WOODWORK QUALITY STANDARDS".

SOLID-CORE FLUSH WOOD DOORS: AWI SECTION 1300, CUSTOM GRADE, CONSTRUCTION MEETING AWI SPEC STANDARD #FPC-3: SOLID CORE WITH VENEER OF WHITE OAK SPECIES, RIFT CUT, FOR STAIN FINISH. PROVIDE SAMPLE FOR ARCHITECT'S APPROVAL PRIOR TO ORDER AND FABRICATION

PART 1 - GENERAL

1.01 SUBMITTALS

A. RATING SYSTEM DOCUMENTATION
1. SUBMIT INVOICES SHOWING THE VENDOR'S FOREST STEWARDSHIP COUNCIL CHAIN-OF-CUSTODY CERTIFICATE NUMBER AND IDENTIFYING FSC-CERTIFIED PRODUCTS ON AN ITEM-BY-ITEM BASIS, AS DOCUMENTATION THAT AN FSC-ACCREDITED ORGANIZATION HAS CERTIFIED THAT THE WOOD OR WOOD PRODUCTS ARE FROM A WELL-MANAGED FOREST.

1.02 INDOOR AIR QUALITY

A. DO NOT USE WOOD PRODUCTS CONTAINING UREA-FORMALDEHYDE BINDERS, OR SEAL ALL SURFACES.

PART 2 - PRODUCTS

2.01 MATERIALS

A. WOOD:
1. VENEER: FSC-CERTIFIED WOOD
2. CORE:
a. FORMALDEHYDE-FREE, MEDIUM-DENSITY FIBERBOARD
b. FSC-CERTIFIED, SOLID OR LAMINATED WOOD
c. AGFIBER
3. FINISH: FACTORY-APPLIED FINISH

PART 3 - EXECUTION

3.01 WASTE MANAGEMENT

A. SEPARATE CORRUGATED CARDBOARD PACKING IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN AND PLACE IN DESIGNATED AREAS FOR RECYCLING.

INSTALL DOORS TO COMPLY WITH NWMA I.S. I, SWI QUALITY STANDARDS AND MANUFACTURER'S INSTRUCTIONS. FIT DOORS TO FRAMES WITH UNIFORM CLEARANCES AND BEVELS. MACHINE DOORS FOR HARDWARE IN FIELD. SEAL CUT SURFACES OF DOOR EDGES AFTER FITTING AND MACHINING. REFINISH OR REPLACE DOORS DAMAGED DURING INSTALLATION AT THE CONTRACTORS EXPENSE. ALL EXTERIOR DOORS MUST HAVE AN APPROVED NOTICE OF ACCEPTANCE AS PER GOVERNING JURISDICTION. REFER TO BUILDING ELEVATIONS FOR WIND PRESSURE DESIGN LOADS.

FINISH HARDWARE SECTION 08700

PROVIDE AND INSTALL FINISH HARDWARE THROUGHTOUT THE WORK AS NEEDED FOR A COMPLETE INSTALLATION AND AS INDICATED ON DRAWINGS.

BLOCKING: COORDINATE WITH OTHER SECTIONS TO PROVIDE SOLID WOOD BLOCKING AT ALL LOCATIONS WHERE DOOR STOPS ARE TO BE MOUNTED TO DRYWALL PARTITIONS.

FIRE-RATED OPENINGS: COMPLY WITH NFPA STANDARD NO. 80 AND LOCAL CODES FOR HARDWARE IN FIRE-RATED ASSEMBLIES. PROVIDE ONLY HARDWARE WHICH HAS BEEN TESTED AND LISTED BY UL OR FM IN COMPLIANCE WITH REQUIREMENTS OF DOOR AND DOOR FRAME LABELS.

FASTENERS: PROVIDE NECESSARY SCREWS, BOLTS AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO ANCHOR HARDWARE IN POSITION FOR LONG LIFE UNDER HARD USE. PROVIDE CONCEALED FASTENERS FOR HARDWARE UNITS WHICH ARE EXPOSED WHEN DOOR IS CLOSED.

THRESHOLD SEAL: PROVIDE BUTYL RUBBER SEALANT MEETING FS TT-S- 001657 FOR INSTALLATION OF THRESHOLDS, AS MANUFACTURED BY PECORA, SONOBORN, OR TREMCO.

INSTALL HARDWARE ITEMS AT HEIGHTS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALY REQUIRED TO COMPLY WITH LOCAL CODES. INSTALL HARDWARE IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET UNITS LEVEL, PLUMB AND TRUE.

ADJUST AND CHECK OPERATION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

HARDWARE SCHEDULE: AS INDICATED ON THE DRAWINGS.

MOUNTING HEIGHTS FOR HARDWARE FROM FINISHED FLOOR TO CENTER LINE OF HARDWARE ITEM:

LOCKSETS: 38 INCH
PUSH/PULLS: 42 INCH
DEAD LOCKS: 48 INCH
EXIT DEVICES: 38 INCH

ACCEPTABLE MANUFACTURERS
A. TO THE GREATEST EXTENT POSSIBLE, OBTAIN EACH KIND OF HARDWARE FROM ONLY ONE MANUFACTURER.

B. IF MATERIAL MANUFACTURED BY OTHER THAN THAT SPECIFIED OR LISTED HEREWITH AS AN EQUAL, IS TO BE BID UPON, PERMISSION MUST BE REQUESTED FROM THE ARCHITECT SEVEN (7) DAYS PRIOR TO BIDDING. IF SUBSTITUTION IS ALLOWED, IT WILL BE SO NOTED BY ADDENDUM.

FINISH HARDWARE SECTION 08710

WORK INCLUDED- THE WORK IN THIS SECTION SHALL INCLUDE FURNISHING OF ALL ITEMS OF FINISH HARDWARE AS HEREINAFTER SPECIFIED OR OBVIOUSLY NECESSARY TO COMPLETE THE BUILDING, EXCEPT THOSE ITEMS THAT ARE SPECIFICALLY EXCLUDED FROM THIS SECTION OF THE SPECIFICATION.

RELATED WORK SPECIFIED ELSEWHERE- HOLLOW METAL DOORS AND FRAMES, ALUMINUM DOORS AND FRAMES, WOOD DOORS AND FRAMES

FURNISH LABOR AND MATERIAL TO COMPLETE HARDWARE WORK INDICATED, AS SPECIFIED HEREIN, OR AS MAY BE REQUIRED BY ACTUAL CONDITIONS AT BUILDING. INCLUDE ALL NECESSARY SCREWS, BOLTS, EXPANSION SHIELDS, OTHER DEVICES, IF NECESSARY, AS REQUIRED FOR PROPER HARDWARE APPLICATION. THE HARDWARE SUPPLIER SHALL ASSUME ALL RESPONSIBILITY FOR CORRECT QUANTITIES.
ALL HARDWARE SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION OVER THIS PROJECT, NOTWITHSTANDING ANY REAL OR APPARENT CONFLICT THEREWITH IN THESE SPECIFICATIONS.

FASTENERS-
HARDWARE AS FURNISHED SHALL CONFORM TO PUBLISHED TEMPLATES GENERALLY PREPARED FOR MACHINE SCREW INSTALLATION.
FURNISH EACH ITEM COMPLETE WITH ALL SCREWS REQUIRED FOR INSTALLATION. TYPICALLY, ALL EXPOSED SCREWS INSTALLATION.
INSOFAR AS PRACTICAL, FURNISHED CONCEALED TYPE FASTENERS FOR HARDWARE UNITS THAT HAVE