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## DIVISION 3 - CONCRETE

NOTE: FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE CONCRETE WORK INCLUDING EXCAVATION, TRENCHING, FORM WORK, REINFORCING, CEMENT FINISH AND PRECAST CONCRETE.

### FOOTINGS

- REFER TO DRAWINGS FOR SIZES, DEPTHS, AND REINFORCEMENT. EARTH TRENCH WILL BE PERMITTED FOR FOOTINGS IF CONDITIONS ARE FAVORABLE. SIDES OF TRENCHES SHALL BE CLEAN, EVEN, VERTICAL AND TRUE, AND BOTTOMS SHALL BE LEVEL, CLEAN AND WITHOUT FILL.
- REINFORCING SHALL BE UNPAINTED AND UNCOATED, FREE FROM RUST OR SCALE, AND SHALL BE CLEANED AND STRAIGHTENED BEFORE BEING SHAPED AND PLACED IN POSITION, ACCURATELY POSITION REINFORCEMENT AND SECURED AGAINST DISPLACEMENT, WHERE THERE IS DELAY IN POURING, RE-INPECT REINFORCEMENT AND CLEAN OFF ANY DRIED CEMENT, MORTAR OR RUST.
- REINFORCEMENT SHALL BE OF SIZE AND SPACING AS NOTED ON THE DRAWINGS OR AS PER LOCAL CODES.

### SLABS AND FOOTINGS

- REFER TO DRAWINGS FOR CONCRETE STRENGTH, THICKNESS AND REINFORCING.
  - ALTERNATE: "FIBERMESH" OR EQUAL, A 100% HOMOPOLYMER VIRGIN POLYPROPYLENE FIBRILLATED FIBERS CONTAINING NO REPROCESSED OLEFIN MATERIALS AND ARE SPECIFICALLY ENGINEERED AND MANUFACTURED TO AN OPTIMUM GRADUATION FOR USE AS FIBROUS REINFORCEMENT FOR CONCRETE.
- PROVIDE CONTINUOUS 6 MIL VISQUEEN VAPOR BARRIER ON LEVEL 4" GRAVEL BASE UNDER BUILDING SLABS. LAP EDGES 6" AND SEAL (TURN UP AT WALLS) FOUR CONCRETE FLOORS LEVEL, EXCEPT WHERE FLOOR DRAINS OCCUR IN WHICH CASE THEY SHALL HAVE A 36" TO 48" RADIUS SLOPED TO DRAIN. TOTAL SLOPE IS NOT TO EXCEED 3/4" BELOW FLOOR LEVEL.
- SECURE AND BUILD INTO CONCRETE WORK THE FOLLOWING MATERIALS:
  - PLUMBING AND SYRUP LINES, ELECTRIC CONDUIT, CONCRETE INSERTS, HANGERS, ANCHORS, FLOOR CLIPS, SLEEVES FOR PIPING, ETC., AND WHEN REQUIRED FOR ANCHOR BOLTS, PLATES, ETC., FOR EQUIPMENT.

### SIDEWALKS AND RAMPS

- 3,000 PSI AIR ENTRAINED CONCRETE, 4" THICK, BROOM FINISH SCORE WITH 3/4" DEEP CONTRACTION JOINTS INTO APPROXIMATELY 4'0" SQUARES AS SHOWN ON DETAIL ON THE FOUNDATION PLAN.
- SIDEWALKS AND RAMPS TO MEET LOCAL CODES ALONG WITH REQUIRED SLOPES AND CROSS SLOPES IN THE AMERICANS WITH DISABILITIES ACT FOR ACCESSIBLE DESIGN.

### PAVING

- SPECIFICATIONS FOR CONCRETE PAVING REQUIRED TO BE VERIFIED BY OWNERS' CONSTRUCTION ENGINEER.

### CONCRETE PADS

- CONCRETE PADS AT PICK-UP WINDOW, ORDER STATION AND TRASH ENCLOSURE (REFER TO SITE PLAN). COLOR TREATED AS NOTED IN EXTERIOR FINISHES SCHEDULE ON DRAWINGS. A TRIAL SLAB SHALL BE MADE, USING THE SAME MATERIALS THAT ARE TO BE USED ON THE JOB TO ASSURE OWNER ACCEPTANCE.

### CONCRETE PAD - WALK IN BOX - COOLER / FREEZER / DRY STORAGE

- A LEVEL CONCRETE PAD IS REQUIRED FOR THE WALK IN BOX. THE PAD CAN NOT DEVIATE MORE THAN 1/4" OVER 10' IN ANY DIRECTION.
- A SLOPE CONCRETE PAD IS REQUIRED FOR THE WALK IN BOX. THE PAD CAN NOT DEVIATE MORE THAN 1/2" ON DIAGONAL MEASUREMENTS.
- A MINIMUM OF 6" OF CONCRETE IS REQUIRED AROUND THE PERIMETER OF THE WALK IN BOX. NO CONTROL JOINTS ARE ALLOWED IN THE SLAB FOR THE WALK IN BOX.

## DIVISION 4 - MASONRY

NOTE: FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE MASONRY WORK INCLUDING STRUCTURAL STEEL, WALL TIES, MASONRY REINFORCING, ETC.

### GENERAL

- WORK TO BE LAID TRUE TO DIMENSIONS, PLUMB, SQUARE, AND IN BOND AND PROPERLY ANCHORED. COURSES SHALL BE LEVEL WITH JOINTS OF UNIFORM WIDTH. NO JOINTS SHALL EXCEED SPECIFIED SIZE, AND IF NECESSARY, CLIPPED COURSES SHALL BE PROVIDED TO LEVEL OFF.
- PERFORM MASONRY WORK IN ACCORDANCE WITH ESTABLISHED TRADE PRACTICES. BRACE "GREEN" WALLS AND PROTECT MORTAR FROM "WASHING-OUT" AT END OF DAYS WORK USING PLANKS, WEIGHTED CANVAS, OR SIMILAR MEANS TO COVER WALL. COOPERATE WITH OTHER TRADES IN JOINTLY EXECUTED WORK AND BUILD-UPS ITEMS. PATCH OPENINGS AS REQUIRED FOR PASSAGE OF MECHANICAL AND ELECTRICAL WORK. "UNCURED" UNITS MUST BE USED AT ALL EXPOSED AND OR SEMI-EXPOSED CONDITIONS OF BRICK ROWLOCK CAPS, SILLS, ETC. SIZE AND LOCATION SHOWN ON CONSTRUCTION DOCUMENTS.
- LINTELS SHALL BE OF SIZE AND SHAPE AS SHOWN OR NOTED ON THE DRAWINGS AND SHALL BE STRUCTURALLY SOUND FOR THE SPANS AND LOADS INVOLVED.
- COORDINATE INSTALLATION OF OTHERS WORK ITEMS, SUCH AS ANGLES, ANCHOR BOLTS, FLASHING, STEEL LINTELS AND FRAMING, VENTS, SLEEVES, DOOR FRAMES, MISCELLANEOUS STEEL WORK WITH ANCHORS, ETC.
- CMU TO BE LAD IN A RUNNING BOND.
- CMU TO BE LAD WITH FULL MORTAR IN THE BED AND HEAD JOINTS.
  - CONCAVE TOOLED JOINT USING A TOOL OF LARGER THAN 1/2" DIAMETER.
- FLASHING TO BE PLASTIC COATED ALUMINUM BY HOHMANN & BARNARD, OR THIN COATED COPPER BY YORK FLASHING. THE FLASHING SHOULD PENETRATE THE BRICKWORK AND BE TRIMMED AT THE COMPLETION OF THE MASONRY WORK. CLEAN AND PATCH CONCRETE BLOCK WORK AT END OF EACH WORKING DAY. AT THE COMPLETION OF WORK AS AN ENTIRETY.
- CMU: ASTM C90, MEDIUM WEIGHT.
- REFER TO STRUCTURAL DWGS. FOR MORE INFORMATION.

## DIVISION 6 - WOOD, PLASTICS, AND COMPOSITES

FURNISH LABOR, TOOLS, EQUIPMENT AND MATERIALS TO COMPLETE WORK UNDER THIS HEADING AS INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

### ROUGH CARPENTRY

- PROVIDE AND MAINTAIN TEMPORARY ENCLOSURES, AND BARRICADES AS REQUIRED BY GOVERNING LOCAL ORDINANCES.
- PROVIDE TEMPORARY DOOR AND WINDOW ENCLOSURES AS REQUIRED.
- HEADERS TO BE SIZED AS DETAILED IN THE STRUCTURAL DRAWINGS.

### STRUCTURAL LUMBER

- REFER TO STRUCTURAL DRAWINGS FOR INFORMATION ON STRUCTURAL LUMBER, SHEATHING, PRE-FABRICATED WOOD JOISTS, FASTENING AND ATTACHMENT.

### FINISH CARPENTRY

- FURNISH LABOR AND MATERIALS TO COMPLETE WORK UNDER THIS SECTION AS INDICATED ON DRAWINGS AND DESCRIBED IN THESE SPECIFICATIONS.
- HARDWARE DIMENSIONS ARE TO BE NET SIZE AND NOT NOMINAL SIZE. MATERIAL FOR INTERIOR FINISH SHALL BE AS FOLLOWS:
  - DINING ROOM TRIM - REFER TO FINISH SCHEDULE & DETAILED DRAWINGS.
  - COUNTERTOPS TO BE FURNISHED AND INSTALLED BY KITCHEN EQUIPMENT SUPPLIER.

### SOLID SURFACING MATERIAL

- VANITY TOPS AND WINDOW SILLS: DUPONT CORIAN, COLORS AS NOTED ON DRAWINGS.
- PROVIDE THICKNESS, FINISH AND EDGE TREATMENT AS REQUIRED AND COORDINATED WITH THE OWNERS REPRESENTATIVE.

### BUILDING WEATHER BARRIER

PROVIDE WEAATHER BARRIER AS NOTED ON PLANS, SECTIONS, DETAILS, ETC.

#### A. FLUID APPLIED

- ASTM E1677 - DUPONT TYVEK FLUID APPLIED WB
- BUILDING WRAP COMPOUND: TYVEK FLUID APPLIED FLASHING & JOINT COMPOUND AND DUPONT SEALANT FOR TYVEK FLUID APPLIED SYSTEM.

#### B. BUILDING WRAP:

- ASTM E1677: DUPONT TYVEK COMMERCIAL WRAP
- BUILDING WRAP TAPE: PRESSURE SENSITIVE PLASTIC TAPE RECOMMENDED BY BUILDING WRAP MANUFACTURER FOR SEALING JOINTS ADM PENETRATIONS IN BUILDING WRAP.

#### C. FLUID APPLIED AT E.I.F.'S

- AS NOTED IN E.I.F.S. SECTION OF THESE SPECIFICATIONS

## DIVISION 7 - THERMAL AND MOISTURE PROTECTION

### BUILDING INSULATION

- FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS AND DESCRIBED IN THE SPECIFICATIONS.
- EXTERIOR WALL INSULATION: REFER TO INSULATION SCHEDULE ON DRAWINGS.
- VAPOR BARRIER SHALL BE GRIFFOLYN GRIF TAPES OR EQUAL, OR EQUAL. THE MATERIAL SHALL HAVE A 3PLY, HIGH DENSITY POLYETHYLENE AND NYLON YARN LAMINATE. MATERIAL SHALL HAVE A REINFORCED NON-WOVEN GRID WITH A PPT TEAR STRENGTH OF AT LEAST 15.0 LBS. VAPOR BARRIER SHALL BE APPLIED IN THE WIDEST PRACTICAL WIDTHS. SIDE AND END JOINTS SHALL BE LAPPED AT LEAST 6" LAPS SHALL BE SEALED USING FAB TAPE, JOINTURES OR TEARS ARE TO BE REPAIRED USING GRIFFOLYN GRIF TAPE, FAB TAPE OR EQUAL. VAPOR BARRIER MUST PROVIDE A COMPLETE SEAL TO PREVENT MOISTURE TRANSFER. NOTE: FOR SOUTHERN COASTAL AREAS, THE VAPOR BARRIER SHOULD BE USED ON THE EXTERIOR OF THE WALL. WHERE THERE IS UNCERTAINTY, FOLLOW LOCAL PRACTICE.
- RIGID ROOF INSULATION: FURNISHED AND INSTALLED BY THE ROOFING CONTRACTOR. INSULATION TO BE MINIMUM OF (2) LAYERS OF ROOF MANUFACTURER'S RECOMMENDED INSULATION BOARDS. INSTALL IN THICKNESS REQUIRED TO MEET THE R-VALUES INDICATED IN THE INSULATION SCHEDULE ON DRAWINGS. CONTRACTOR TO PROVIDE BID UTILIZING DURO-GUARD ISO II BOARDS. ENVOY 9 INSULATION BOARDS BY JOHNS MANVILLE ARE AN ACCEPTABLE EQUAL.
- PERIMETER INSULATION: REFER TO INSULATION SCHEDULE ON DRAWINGS.

### ROOFING INSULATION

- WHERE NOTED ON PLAN, INSULATION SHALL BE INSTALLED IN THE FOLLOWING MANNER:
  - MECHANICALLY FASTENED - THE ROOF INSULATION BOARDS SHALL BE INSTALLED WITH FACTORY APPROVED FASTENERS AND STRESS DISTRIBUTION PLATES. LENGTH WILL VARY TO MEET THE JOY CONDITIONS. MINIMUM FASTENER PENETRATION THROUGH THE ROOF DECK PER MANUFACTURER'S RECOMMENDATIONS. CUT SCREWS AND PAINT TO MATCH SURROUNDING CONDITIONS.
  - GLUE DOWN - THE ROOF INSULATION BOARDS SHALL BE INSTALLED WITH FACTORY APPROVED ADHESIVES. COVERAGE RATES PER MANUFACTURER'S RECOMMENDATIONS.

### GENERAL ROOFING

- COMPONENTS OF THE MANUFACTURERS ROOFING SYSTEM SHALL BE PRODUCTS OF THAT MANUFACTURER. SUBSTITUTES OF THEIR RELATED MATERIALS MUST HAVE PRIOR ACCEPTANCE BY THE MANUFACTURER.
- DEVIATION FROM MANUFACTURERS SPECIFICATIONS AND INSTALLATION INSTRUCTIONS SHALL VOID WARRANTY ISSUANCE UNLESS THE DEVIATION IS APPROVED BY A DULY AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER IN WRITING.
- SHOP DRAWINGS ARE REQUIRED FOR ORDERING, MANUFACTURING, AND FINAL INSPECTION OF THE ROOFING SYSTEM. SHOP DRAWINGS SHALL INCLUDE ROOF OUTLINE, SIZE, ROOF PENETRATIONS, INSULATION TYPE AND THICKNESS, PIECE LAYOUT AND PARAPET LOCATION, ORDERS AND SHOP DRAWINGS SHALL BE APPROVED BY ROOFING MANUFACTURER AND ASSIGNED A MANUFACTURER NUMBER.
- WARRANTY: MANUFACTURERS STANDARD 15 YEAR, NO DOLLAR LIMIT WARRANTY.

### ROOFING DELIVERY

- ROOFING AND RELATED MATERIALS SHALL BE DELIVERED TO JOB SITE IN ORIGINAL PACKAGING WITH SHIPPING LABELS INTACT. IF SHORTAGES OR DAMAGES ARE DISCOVERED UPON DELIVERY, DO NOT ACCEPT THEM UNTIL THE FREIGHT AGENT MAKES A DAMAGED OR SHORT NOTATION ON YOUR FREIGHT BILL. IN CASE OF CONCEALED LOSS OR DAMAGE, IT IS NECESSARY TO NOTIFY YOUR FREIGHT AGENT AT ONCE.

### ROOFING HANDLING

- THERE SHALL BE ADEQUATE PERSONNEL AND EQUIPMENT TO LIFT ROOFING MATERIAL FOR PLACEMENT ON THE ROOF TO PREVENT DAMAGE TO MATERIAL. THE MATERIAL SHALL BE DEPOSITED ON THE ROOF NEAR THE ENDS OF JOISTS OR OTHER ROOF LOAD BEARING MEMBERS OF THE BUILDING FRAME AND CONVENIENTLY LOCATED FOR FINAL PLACEMENT.

### ROOFING STORAGE

- ROOFING MATERIAL SHALL BE STORED IN ORIGINAL PACKAGING TO PROTECT MEMBRANE FROM GETTING WET OR BEING DAMAGED AND SOILED. ADHESIVES AND SEALANTS SHALL BE PROPERLY STORED AND PROTECTED AS RECOMMENDED BY THEIR MANUFACTURERS.

### ROOFING OVERNIGHT COVER

- A TEMPORARY WATER SEAL SHALL BE PERFORMED EACH NIGHT TO AVOID WATER PENETRATING UNDERNEATH THE INSTALLED MEMBRANE AND CAUSING DAMAGE TO THE BUILDING AND THE INSULATION BEING USED.
  - INSTALLATION: WITH THE MEMBRANE EXTENDED OVER EXPOSED INSULATION (IF USED), SET INTO A WATER RESISTANT, NON-BITUMINOUS SEALANT, GENEROUSLY APPLIED OVER A DUSTY, GREASE, AND MOISTURE FREE SUBSTRATE. FASTEN 1/2" ON CENTER USING TERMINATION BAR.

### ROOFING AND SHEET METAL

- FURNISH AND COMPLETELY INSTALL THE ROOFING SYSTEM PER OWNERS' APPROVED SUPPLIER SPECIFICATIONS AND DIAGRAMS AS OUTLINED AND FURNISHED BY THE SUPPLIER. THE ROOFING SYSTEM SHALL BE INSTALLED EXCLUSIVELY BY A OWNERS APPROVED MANUFACTURER INSTALLER. FINAL INSPECTION PRIOR TO WARRANTY ISSUANCE SHALL BE PERFORMED BY AN AUTHORIZED QUALITY CONTROL FIELD INSPECTOR AS PER CURRENT SPECIFICATIONS, INSTALLATION AND INSPECTION POLICIES.

### ROOFING SURFACE PREPARATION

- THE ROOF SHALL HAVE AN ADEQUATELY PREPARED SURFACE TO RECEIVE THE INSULATION, ROOFING AND FLASHING. PRIOR TO ONSET OF WORK, THE APPLICATOR SHALL INSPECT THE ENTIRE AREA TO BE ROOFED, AND CORRECTS AND IMPROPER CONDITIONS AFFECTING THE ROOF INSTALLATION SHALL BE CORRECTED BEFORE APPLICATION OF THE INSULATION.
- INSTALL 1/2" DENS-DECK PRIME ROOF BOARD OVER RIGID INSULATION PRIOR TO MEMBRANE INSTALLATION.

### ROOFING WOOD DECKS

- ROOF SHALL BE CLEAN, SMOOTH AND SUITABLE FOR ACCEPTANCE OF THE ROOFING SYSTEM. REMOVE AND REPLACE DETERIORATED WOOD NAILERS, ROOF CURBS AND SOURED OR BADLY DETERIORATED ROOF INSULATION. JOINT OR CRACKS GREATER THAN 1/4" SHALL BE REPAIRED.

### ROOFING MEMBRANE

- THE MEMBRANE MATERIAL SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER SPECIFICATIONS. MEMBRANE (BASE BID) PRECISION FABRICATED, FLEXIBLE, SINGLE-PLY, 40 MIL PVC ROOFING SYSTEM BASIS OF DESIGN: DURO-LAST ROOFING INC. (ALTERNATE BID) SAME AS LISTED ABOVE BUT 30 MIL.
  - ALL ASHRAE ZONES: COLOR WHITE
- RELATED MATERIALS:
  - D RIP EDGES, GRAVEL STOPS, COPINGS AND COUNTER FLASHINGS TO BE COMPATIBLE AND INSTALLED ACCORDING TO ROOF MANUFACTURERS SPECIFICATION. IF PRODUCTS USED ARE SHEET METAL, IT MUST BE A 26 GA (MM) GALVANIZED. METAL COUNTER FLASHING, COPING, DRIP EDGES AND GRAVEL STOPS SHALL HAVE A 3" OVERLAP FOR EXPANSION AND CONTRACTING. CONTRACTOR TO CONSIDER UTILIZING EXCEPTIONAL METALS PRODUCTS TO ENSURE A FULL SYSTEM WARRANTY.
  - ROOF SCUPPER LININGS: CUT ROOF SCUPPER LINING TO FIT ROOF SCUPPERS, ALLOWING ADEQUATE MATERIAL FOR FIELD WELDING TO ROOF COVER AND BASE FLASHING. APPLY APPROVED ADHESIVE TO SCUPPER, INSTALL LINING IN SCUPPER AND MAKE FIELD WELDS TO ROOF COVER AND BASE FLASHING. APPLY APPROVED SEALANT TO EXTERIOR EDGES OF LINING ON EXTERIOR OF WALL. UNDER AND ON TOP OF THE TERMINATION BAR SURROUNDING THE EDGES. CONTRACTOR MUST UTILIZE DURO-LAST PREFABRICATED SCUPPER FLASHING PER DURO-LAST DETAIL 2061.
  - WOOD MEMBERS: LUMBER SHALL BE #2 SOUTHERN YELLOW PINE, DOUGLAS FIR OR OTHER APPROVED SPECIES, AND IT SHALL BE FREE FROM WARPING, EXCESSIVE KNOTS AND GRADE MARKED. IT SHALL BE "WOLMANIZED" (CCA) PRESSURE-TREATED AND SHALL BEAR THE TRADE MARK "WOLMANIZED" OR AN APPROVED EQUAL TREATMENT.
  - ROOF DRAINS AND OVERFLOW DRAINS TO BE INSTALLED ACCORDING TO ZURN Z180 CORNICE DRAIN INSTALLATION GUIDE.

### FLASHING

- FLASHING ON PARAPET WALLS SHALL BE FASTENED 12" ON CENTER ALONG BOTTOM ON MAIN DECK WITH A MINIMUM 1/4" LAP WELDABLE TO EXISTING BRANNE, COVERING APPROVED FASTENERS. PARAPET WALLS SHALL BE COVERED MINIMUM OF 12" HIGH.
- B. PROVIDE AND INSTALL FLASHING FOR PARAPET WALLS AND WALK IN BOX. (FINISH AS NOTED ON EXTERIOR ELEVATIONS AND SCHEDULES.)
- C. FLASH AND COUNTER FLASH ITEMS THAT PASS THROUGH THE ROOF PROVIDE "PITCH POCKETS" AS REQUIRED TO FORM A COMPLETE JOY.
- D. PROVIDE NECESSARY MOUNTING CLIPS, CLOSURES, FASTENINGS, ETC. REQUIRED TO COMPLETE THE COUNTER-FLASHING, GRAVEL STOPS, CAPS AND COPINGS, INDICATED ON THE DRAWINGS.

### ROOFING PERIMETER LAPS

- ANY TIME A ROOF EDGE DOES NOT HAVE A PARAPET WALL OR ROOF TIE-IN, (I.E. DRIP EDGE, WATER/GRAVEL STOP, TERMINATION BAR ON EDGE, GUTTER, ETC.) THEN THE ROOF SECTION MUST HAVE A LAP 27" IN FROM THE EDGE AND REVERSED. THIS HELPS REDUCE WIND UP/LIFT AROUND PERIMETERS AND REVERSING THE LAP. ALLOWS CONTRACTOR APPLICATOR TO PLACE ROOF SECTION AWAY FROM THE EDGE.

### ROOFING PROJECT/SITE CLEAN-UP

- UPON COMPLETION, THE ROOFING CONTRACTOR SHALL REMOVE RUBBISH, WASTE MATERIALS, ETC. FROM THE ROOF, LEAVING THE ROOF IN A CLEAN CONDITION AND FURTHER REMOVING SUCH ROOFING DEBRIS FROM THE WORK SITE. A RIGOROUS INSPECTION FOR WATERIGHT FIELD SEAMS SHALL BE MADE AFTER COMPLETION OF JOB.

### ROOFING INSPECTIONS

- UPON COMPLETION OF EACH ROOFING JOB, CONTRACTOR SHALL FILL OUT INSPECTION CARD AND RETURN TO MANUFACTURER. EACH ROOF SHALL BE INSPECTED BY AN AUTHORIZED QUALITY CONTROL FIELD INSPECTOR TO MAKE SURE APPLICATION MEETS MANUFACTURERS SPECIFICATIONS, BEFORE ISSUANCE OF WARRANTY. CONTRACTOR SHALL ACCOMPANY INSPECTOR ON INSPECTIONS AND OBTAIN SIGNED WARRANTY FROM CUSTOMER AND RETURN TO MANUFACTURER, WITH NO FINAL PAYMENT BEING MADE UNTIL AN OWNERS REPRESENTATIVE HAS WARRANTY.

### ROOFING CONTRACTOR QUALIFICATION ASSURANCE

- THE ROOFING CONTRACTOR SHALL BE DULY CERTIFIED BY ROOFING MANUFACTURER FOR COMPLETE APPLICATION AND INSTALLATION OF THIS ROOFING SYSTEM. TO MAINTAIN ROOF WARRANTY, FUTURE REPAIRS AND ALTERATIONS SHALL BE MADE BY PERSONNEL DULY CERTIFIED BY ROOFING MANUFACTURER.

### ROOF METAL TRIMS

- THIS SECTION INCLUDES METAL TRIM AT PARAPET CAPS, WALL CAPS, BREAK METAL TRIMS AND THE BOTTOM TRIM ON THE FASCIAS. TRIM MATERIAL SHALL CONSIST OF PREFINISHED (REFER TO FINISH SCHEDULE FOR COLOR), 34" ALUMINUM SHEETS OR 24" GALVALUME STEEL, FORMED TO THE PROFILES SHOWN ON THE DRAWINGS. ATTACHMENT TO THE SUB STRUCTURE SHALL BE BY NON-FERROUS FASTENERS THAT ARE CONCEALED FROM VIEW WHERE POSSIBLE. FASTENERS NOT CONCEALED FROM VIEW MUST MATCH THE COLOR OF THE TRIM BEING FASTENED.

### SEALANT

- SURFACES TO RECEIVE SEALANT ARE TO BE DRY AND THOROUGHLY CLEANED OF LOOSE PARTICLES OF DIRT AND DUST, OIL, GREASE, OR OTHER FOREIGN MATTER.
- SEAL AT EXTERIOR DOOR FRAMES, WINDOW FRAMES, AND OPENINGS FOR PLUMBING, ELECTRICAL, REFRIGERANT AND GAS LINES IN EXTERIOR WALLS, FLOORS AND ROOFS.

### SEALANT MATERIALS

- JOINT LOCATIONS AND JOINT SEALANT TYPES ARE NOTES ON DRAWINGS.
- ACCEPTABLE MANUFACTURER TYPE PER EACH JOINT TERMINATION TYPE IS AS FOLLOWS:
  - (S-1) POLYSULFIDE POLYMER BASE COMPOUND SHALL CONFORM TO AMERICAN STANDARD SPECIFICATION A-116, 1960 CLASS A OR B, AND EQUAL TO THAT MANUFACTURED BY SONNEBERN OR PECORA.
  - (S-2) BUTYL SEALANT SHALL BE BUTYL RUBBER BASE COMPOUND EQUAL TO THAT MANUFACTURED BY SONNEBERN OR PECORA.
  - (S-3) LATEX JOINT SEALANT: ACRYLIC LATEX OR SILICONE LATEX, ASTM C834, TYPE OP, GRADE N°. EQUAL TO THAT MANUFACTURED BY BOSTIK, INC., PECORA OR TREMCO.
  - (S-4) SINGLE COMPONENT, PURABLE, MOISTURE CURING POLYURETHANE JOINT SEALANT: ASTM C920, TYPE S, GRADE P, CLASS 100/50. EQUAL TO THAT MANUFACTURED BY PECORA, TREMCO OR GE.
  - (S-5) SINGLE COMPONENT, MILDEW RESISTANT, NEUTRAL CURING SILICONE JOINT SEALANT: ASTM C920, TYPE S, GRADE NS, CLASS 25. EQUAL TO THAT MANUFACTURED BY PECORA, TREMCO OR GE.

### KNOTWOOD

ALUMINUM SIDING, SOFFITS, AND ACCESSORIES

### GENERAL

#### SECTION INCLUDES

- ALUMINUM SIDING
- ALUMINUM SOFFITS
- ALUMINUM TRIM AND ACCESSORIES.
- 8MM SHUTTER BLADE.
- FIXED ROUTED LOUVER SECTIONS.
- 6MM SLAT
- SMALL INFILL.

#### RELATED SECTIONS

- COLD-FORMED METAL FRAMING; METAL FRAMING FOR SUPPORT OF ALUMINUM SOFFITS.
- ROUGH CARPENTRY; WOOD STUD FRAMING; FURRING AND SHEATHING FOR SUPPORT OF ALUMINUM SOFFITS.
- BUILDING INSULATION: RIGID THERMAL INSULATION
- INSTALLED BEHIND SIDING.
- FLASHING AND SHEET METAL; SHEET METAL GUTTERS; AND DOWNSPOUTS
- JOINT SEALANTS: SEALANTS USED IN CONJUNCTION WITH ALUMINUM SIDING INSTALLATION.

### REFERENCES

- ASTM D 958 - PRACTICE FOR DETERMINING TEMPERATURES OF STANDARD ASTM MOLDS FOR TEST SPECIMENS OF PLASTICS.
- AAIA 2605-05 - VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR SUPERIOR PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS.
- AAIA 2604 - VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR HIGH PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS.
- AAIA 2603 - VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR HIGH PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS.

### PERFORMANCE REQUIREMENTS

- COMPONENTS: DESIGN AND SIZE COMPONENTS TO WITHSTAND DEAD AND LIVE LOADS CAUSED BY POSITIVE AND NEGATIVE WIND PRESSURE ACTING NORMAL TO PLANE OF WALLS AS CALCULATED IN ACCORDANCE WITH APPLICABLE CODE.
- MOVEMENT: ACCOMMODATE MOVEMENT WITHIN SYSTEM WITHOUT DAMAGE TO COMPONENTS OR MOVEMENT WITHIN SYSTEM. MOVEMENT BETWEEN SYSTEM AND PERIMETER COMPONENTS WHEN SUBJECT TO SEASONAL TEMPERATURE CYCLING, DYNAMIC LOADING AND RELEASE OF LOADS; DEFLECTION OF STRUCTURAL SUPPORT FRAMING.
- DRAINAGE: PROVIDE POSITIVE DRAINAGE TO EXTERIOR FOR MOISTURE ENTERING OR CONDENSATION OCCURRING WITHIN PANEL SYSTEM.

### SUBMITTALS

- PRODUCT DATA: MANUFACTURERS DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:
  - PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
  - STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
  - INSTALLATION METHODS.
- SHOP DRAWINGS: INDICATE DIMENSIONS, LAYOUT, JOINTS, EXPANSION JOINTS, CONSTRUCTION DETAILS, METHODS OF ANCHORAGE, AND INTERFACE WITH ADJACENT MATERIALS.

- SELECTION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO COMPLETE SETS OF COLOR CHIPS REPRESENTING THE MANUFACTURERS FULL RANGE OF AVAILABLE COLORS AND PATTERNS.
- VERIFICATION SAMPLES: FOR EACH FINISH PRODUCT SPECIFIED, TWO SAMPLES, MINIMUM SIZE 2 INCHES (51MM) BY 3-1/2 INCHES (89MM), REPRESENTING ACTUAL PRODUCT, COLOR AND GLOSS.
- MANUFACTURERS CERTIFICATES: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
- CLOSEOUT SUBMITTALS: PROVIDE MANUFACTURERS MAINTENANCE INSTRUCTIONS THAT INCLUDE RECOMMENDATIONS FOR PERIODIC CLEANING AND MAINTENANCE OF COMPONENTS.

### QUALITY ASSURANCE

- MANUFACTURER'S QUALIFICATIONS: MINIMUM TEN YEARS' EXPERIENCE PRODUCING ALUMINUM FINISHES OF THE TYPES SPECIFIED IN AAIA 2604 AND 2605 CERTIFIED.
- INSTALLER: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
- MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP.
  - FINISH AREAS DESIGNED BY ARCHITECT.
  - DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP, COLOR, AND GLOSS ARE APPROVED BY ARCHITECT. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.

### DELIVERY, STORAGE, AND HANDLING

- PACKAGE AND STORE PRODUCTS UNDER COVER IN MANUFACTURERS UNOPENED PACKAGING UNTIL READY FOR TRANSPORT AND INSTALLATION.
- PROTECT PANELS FROM ACCELERATED WEATHERING BY REMOVING OR VENTING SHEET PLASTIC SHIPPING WRAP.
- STORE PREFINISHED MATERIAL OFF GROUND PROTECTED FROM WEATHER, TO PREVENT TWISTING, BENDING, OR ABRASION, AND PROVIDE VENTILATION, SLOP METAL SHEETS TO ENSURE DRAINAGE.
- PREVENT CONTACT WITH MATERIALS CAPABLE OF CAUSING DISCOLORATION OR STAINING.

### PROJECT CONDITIONS

- MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT FABRICATE PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURERS ABSOLUTE LIMITS.

### COORDINATION

- COORDINATE WORK WITH INSTALLATION OF WINDOWS, LOUVERS, AND ADJACENT COMPONENTS OR MATERIALS.

### WARRANTY

- KNOTWOOD'S LIMITED LIFETIME WARRANTY AGAINST CRACKING, PEELING AND GLOSS/COLOR RETENTION WITHIN THE GUIDELINES STATED BY THE AMERICAN ALUMINUM MANUFACTURERS ASSOCIATION (AAIA).
  - STANDARD COLORS
    - DULUX DURATEC - AAIA 2604 (5 YEAR FLORIDA) 15 YEAR MANUFACTURERS WARRANTY.
    - DULUX FLUOROSER - AAIA 2605 (10 YEAR FLORIDA) 20 YEAR MANUFACTURERS WARRANTY.
  - WOOD GRANS
    - AAIA 2604 (5 YEAR FLORIDA) 15 YEAR MANUFACTURERS WARRANTY.

### PRODUCTS

#### MANUFACTURERS

- ACCEPTABLE MANUFACTURER: KNOTWOOD LLC., WHICH IS LOCATED AT: 2014 NE 30TH STREET SUITE B-3 VANCOUVER, WA 98682. INFO AT: HYPERLINK "MAIL TO SALES@KNOTWOOD.COM" SALES@KNOTWOOD.COM WEB: HYPERLINK "HTTP://WWW.KNOTWOOD.COM" WWW.KNOTWOOD.COM
- SUBSTITUTIONS: NOT PERMITTED

### MATERIALS

- EXTRUDED ALUMINUM SIDING AND SOFFITS: KNOTWOOD WOOD GRAIN ALUMINUM SIDING AND SOFFITS WITH ALLUMINATE BONDED FILM FINISH IS EXTRUDED ALUMINUM.
  - EXDC100- 3/4" X 5/8" X 18" CLADDING BOARD SMOOTH
  - EXDC100R- 4" X 5/8" X 18" CLADDING BOARD RIBBED
  - EXDC100S- 4" 5/8" X 18" CLADDING BOARD SMOOTH
  - EXDC150- 6" X 5/8" X 18" CLADDING BOARD SMOOTH
  - EXSM10016- 1-1/2" X 5/8" X 18" SELF MATING SLAT (2-PART)
  - EXSM10016- 4" X 5/8" X 18" SELF