

**CITY OF SIDNEY**  
**26-20 SIDNEY AIRPORT NEW EQUIPMENT HANGER**  
**ADDENDUM #1**

***This acknowledgement must be included as an attachment to Bid proposal***

To All Contractors / Bidders / Suppliers:

This Addendum clarifies the Original Quantities, Drawings, and/or Specifications as applicable and is to be taken into account in preparing Bid proposals and will become part of the Contract Documents:

**PLANS**

Sheet A1.3 SPECIFICATIONS revised to include "roof panel" type.

Sheet A4.1 EXTERIOR ELEVATIONS revised to indicate a building eave height of 118'-8".

Sheet S0.0 GENERAL STRUCTURAL INFORMATION add to the LOADING TYPE list:  
Collateral Load of 3 PSF

**By:**

\_\_\_\_\_  
*Authorized Signature & Title*

**Company**

\_\_\_\_\_  
*Name & Address*

**Date**

\_\_\_\_\_  
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3. FACTORY-SUPPLIED UPPER WEATHER STRIPPING: SHIPPED WITH FRAME AND DOOR PANEL FOR FIELD-INSTALL.
4. FACTORY-SUPPLIED LOWER WEATHER STRIPPING: INSTALLED ON DOOR PANEL BEFORE INSTALLATION.
5. HYDRAULIC DOORS: OPERATED BY HYDRAULIC CYLINDERS MECHANICALLY FASTENED TO SWINGING DOOR LEAF AND MANUFACTURER'S DOOR FRAME.
6. TWO HYDRAULIC CYLINDERS: OPEN AND CLOSE HYDRAULIC DOOR, DESIGNED TO CARRY REQUIRED LOADS DURING OPERATION, OPEN POSITION, AND CLOSED POSITION.
- a. INTERNAL STOPS: INSTALLED TO PREVENT OVER-EXTENSION OF CYLINDERS, RESTRICTING SYSTEM FROM OPENING OR CLOSING BEYOND ITS LIMITS.
- b. EQUIPPED WITH RESTRICTORS TO CONTROL OIL FLOW ON THE DOWN CYCLE.
7. HYDRAULIC POWER UNIT:
- a. POWER: 5 HP.
- 1) 230 VAC SINGLE-PHASE, REQUIRES 40 AMP BREAKER.
- 2) MOMENTARY TOGGLE STYLE SWITCH:
- a) PUSH IN DESIRED DIRECTION ACCORDING TO LABELS; RAISE OR LOWER.
- b) SWITCH REQUIRES CONSTANT PRESSURE TO OPERATE.
- c) WHEN PRESSURE ON SWITCH IS RELEASED, PUMP OPERATION STOPS CAUSING DOOR TO STOP AND STAY AT DOOR'S PRESENT POSITION.
- d. ELECTRIC MOTOR AND PUMP ARE COMBINED INTO ONE SELF-CONTAINED UNIT LOCATED ADJACENT TO THE DOOR.
- e. ATTACHMENT OF METAL BUILDING: FOUR, 1/4 INCH (6 MM) LAGS.
- c. ELECTRICAL POWER CONNECTIONS TO THE PUMP UNIT AND FINAL HOOK-UP BY OTHERS.
- d. PRE-WIRED AND FACTORY TESTED.
- e. HYDRAULIC OIL: ISO 32 OR ISO 22.
8. ALTERNATIVE HYDRAULICS: TO ALLOW FOR DOOR OPERATION WHEN ELECTRICAL PUMP HAS LOST POWER.
- B. FINISHES:
1. SYSTEM FRAMES AND PANELS: CLEANED AND PAINTED WITH DIRECT TO METAL PAINT.
2. EXTERIOR: METAL PANEL TO MATCH BUILDING CLADDING BY METAL BUILDING SUPPLIER.
3. INTERIOR: METAL PANEL BY METAL BUILDING SUPPLIER, PAINTED WHITE.

### PART 3 EXECUTION

- 3.1 EXAMINATION
- A. EXAMINE SUBSTRATES AND CONDITION WITH BUILDING ERECTOR PRESENT FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
- B. PROCEED WITH ERECTION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- 3.2 PREPARATION
- A. BUILDING ROUGH OPENING JAMBS AND HEADER TO BE PLUMB AND LEVEL WITHIN 1/4 INCH FROM END TO END.
- B. FOUNDATION BELOW DOOR TO BE LEVEL AND FLAT WITHIN 1/2 INCH (13 MM) VARIATION ACROSS DOOR OPENING.
- 3.3 INSTALLATION
- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, APPROVED SUBMITTALS, AND IN PROPER RELATIONSHIP WITH ADJACENT CONSTRUCTION.
1. INSTALLATION OF CUSTOM DESIGNED HYDRAULIC DOOR COMPLETED BY LICENSED DOOR MANUFACTURER PERSONNEL ONLY.
2. STEEL ROUGH OPENING: DOOR FRAME STITCH WELDED TO BUILDING JAMB AND HEADER.
- 3.4 CLEANING AND PROTECTION
- A. CLEAN PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS OR FINISHES BEFORE SUBSTANTIAL COMPLETION.

### DIVISION 9: FINISHES:

- INTERIOR PAINTING WORK:
1. THIS SECTION INCLUDES SURFACE PREPARATION AND APPLICATION OF PAINT SYSTEMS ON THE FOLLOWING SUBSTRATES:
- a. GALVANIZED STEEL
1. GALVANIZED-METAL SUBSTRATES: REMOVE GREASE AND OIL RESIDUE FROM GALVANIZED SHEET METAL FABRICATED FROM COIL STOCK BY MECHANICAL METHODS TO PRODUCE CLEAN, LIGHTLY ETCHED SURFACES THAT PROMOTE ADHESION OF SUBSEQUENTLY APPLIED PAINTS.
- b. STEEL
1. SHOP-PRIMED STEEL SUBSTRATES: CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS OF SHOP PAINT, AND PAINT EXPOSED AREAS WITH THE SAME MATERIAL AS USED FOR SHOP PRIMING TO COMPLY WITH SSPC-PA 1 FOR TOUCHING UP SHOP-PRIMED SURFACES.
2. STEEL SUBSTRATES: REMOVE RUST AND LOOSE MILL SCALE.
- c. CONCRETE
1. CONCRETE MASONRY SUBSTRATES: REMOVE EFFLORESCENCE AND CHALK. DO NOT PAINT SURFACES IF MOISTURE CONTENT OR ALKALINITY OF SURFACES TO BE PAINTED EXCEEDS THAT PERMITTED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. ACCEPTABLE PAINT MANUFACTURERS: (ALL PAINTS MUST BE FROM A SINGLE MANUFACTURER).
- a. SHERWIN WILLIAMS COMPANY (THE)
- b. BENJAMIN MOORE & CO.
- c. ICI PAINTS
- d. PPG PAINTS
- e. OTHER MANUFACTURERS IF APPROVED BY ARCHITECT.
3. PAINT COLORS SHALL BE SELECTED BY THE OWNER.
4. MAINTENANCE MATERIAL SUBMITTALS:
- a. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN, THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS, % BUT NOT LESS THAN 1 GAL. OF EACH MATERIAL AND/OR COLOR APPLIED.
5. PAINT APPLICATION
- a. PAINT TO COVER ALL SURFACES TO BE PAINTED. THERE SHALL BE NO BLOTCHES, ROLLER MARKS, BRUSH MARKS, OR BLEED THROUGH.
- b. AS A MINIMUM ALL SURFACES TO BE PAINTED SHALL RECEIVE ONE PRIME COAT AND TWO FINISHED COATS.
- c. PROVIDE MATERIALS FOR USE WITHIN EACH PAINT SYSTEM THAT ARE COMPATIBLE WITH ONE ANOTHER AND SUBSTRATES INDICATED, UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE.
- d. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE, INDICATED, AND THESE COATINGS SHALL MAINTAIN THEIR FILM INTEGRITY THROUGHOUT THE ENTIRE WARRANTY PERIOD.
- e. PROVIDE COATINGS SPECIFICALLY COMPOUNDED BY MANUFACTURER FOR ELECTROSTATIC SPRAY APPLICATION, WHERE PRIMERS ARE INDICATED OR REQUIRED, PROVIDE ONLY PRIMERS THAT ARE APPROVED BY MANUFACTURER FOR USE WITH FINISH COATING MATERIALS.

### DIVISION 10: SPECIALTIES:

#### FIRE EXTINGUISHERS

1. NFPA COMPLIANCE: FABRICATE AND LABEL FIRE EXTINGUISHERS TO COMPLY WITH NFPA 10, "PORTABLE FIRE EXTINGUISHERS."
2. FIRE EXTINGUISHERS: LISTED AND LABELED FOR TYPE, RATING, AND CLASSIFICATION BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
3. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
4. INSTRUCTION LABELS: NCLUDE PICTORIAL MARKING SYSTEM COMPLYING WITH NFPA 10, APPENDIX
5. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS FROM ONE OF THE FOLLOWING:
- a. J. L. INDUSTRIES, INC.; A DIVISION OF ACTIVAR CONSTRUCTION PRODUCTS GROUP.
- b. LARSEN'S MANUFACTURING COMPANY.
- c. POTTER ROEMER LLC
6. MOUNTING BRACKETS: MANUFACTURER'S STANDARD GALVANIZED STEEL, DESIGNED TO SECURE FIRE EXTINGUISHER TO WALL OR STRUCTURE, OF SIZES REQUIRED FOR TYPES AND CAPACITIES OF FIRE EXTINGUISHERS INDICATED, WITH PLATED OR RED BAKED-ENAMEL FINISH.
7. IDENTIFICATION: LETTERING COMPLYING WITH AUTHORITIES HAVING JURISDICTION FOR LETTER STYLE, SIZE, SPACING, AND LOCATION. LOCATE AS INDICATED BY ARCHITECT.
8. INSTALLATION:
- a. EXAMINE FIRE EXTINGUISHERS FOR PROPER CHARGING AND TAGGING.
- b. REMOVE AND REPLACE DAMAGED, DEFECTIVE, OR UNDERCHARGED FIRE EXTINGUISHERS.

- c. INSTALL FIRE EXTINGUISHERS AND MOUNTING BRACKETS IN LOCATIONS INDICATED AND IN COMPLIANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- d. MOUNTING BRACKETS: 54 INCHES ABOVE FINISHED FLOOR TO TOP OF FIRE EXTINGUISHER. FASTEN MOUNTING BRACKETS TO SURFACES, SQUARE AND PLUMB, AT LOCATIONS INDICATED.

### DIVISION 13: PREMANUFACTURED METAL BUILDING SYSTEMS

#### GENERAL

##### SECTION INCLUDES:

- STRUCTURAL-STEEL FRAMING.
- METAL ROOF PANELS.
- METAL WALL PANELS.
- THERMAL INSULATION.
- ACCESSORIES.

##### ACTION SUBMITTALS

SHOP DRAWINGS: INDICATE COMPONENTS BY OTHERS, INCLUDE FULL BUILDING PLAN, ELEVATIONS, SECTIONS, DETAILS AND ATTACHMENTS TO OTHER WORK.

DELEGATED-DESIGN SUBMITTAL: FOR METAL BUILDING SYSTEMS.

- INCLUDE ANALYSIS DATA INDICATING COMPLIANCE WITH PERFORMANCE REQUIREMENTS AND DESIGN DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

##### INFORMATIONAL SUBMITTALS

LETTER OF DESIGN CERTIFICATION: SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER, INCLUDE THE FOLLOWING:

- NAME AND LOCATION OF PROJECT.
- ORDER NUMBER.
- NAME OF MANUFACTURER.
- NAME OF CONTRACTOR.
- BUILDING DIMENSIONS INCLUDING WIDTH, LENGTH, HEIGHT, AND ROOF SLOPE.
- INDICATE COMPLIANCE WITH AISI STANDARDS FOR HOT-ROLLED STEEL AND AISI STANDARDS FOR COLD-ROLLED STEEL, INCLUDING EDITION DATES OF EACH STANDARD.
- GOVERNING BUILDING CODE AND YEAR OF EDITION.
- DESIGN LOADS: INCLUDE DEAD LOAD, ROOF LIVE LOAD, COLLATERAL LOADS, ROOF SNOW LOAD, DEFLECTION, WIND LOADS/SPEEDS AND EXPOSURE, SEISMIC DESIGN CATEGORY OR EFFECTIVE PEAK VELOCITY-RELATED ACCELERATION/PEAK ACCELERATION, AND AUXILIARY LOADS (CRANES).
- LOAD COMBINATIONS: INDICATE THAT LOADS WERE APPLIED ACTING SIMULTANEOUSLY WITH CONCENTRATED LOADS, ACCORDING TO GOVERNING BUILDING CODE.
- BUILDING-USE CATEGORY: INDICATE CATEGORY OF BUILDING USE AND ITS EFFECT ON LOAD IMPORTANCE FACTORS.

##### QUALITY ASSURANCE

MANUFACTURER QUALIFICATIONS: A QUALIFIED MANUFACTURER.

- ENGINEERING RESPONSIBILITY: PREPARATION OF COMPREHENSIVE ENGINEERING ANALYSIS AND SHOP DRAWINGS BY A PROFESSIONAL ENGINEER WHO IS LEGALLY QUALIFIED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED.

##### WARRANTY

SPECIAL WARRANTY ON METAL PANEL FINISHES: MANUFACTURER AGREES TO REPAIR FINISH OR REPLACE METAL PANELS THAT SHOW EVIDENCE OF DETERIORATION OF FACTORY-APPLIED FINISHES WITHIN SPECIFIED WARRANTY PERIOD.

- FINISH WARRANTY PERIOD: 25 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

SPECIAL WEATHERTIGHTNESS WARRANTY FOR **STANDING-SEAM** METAL ROOF PANELS: MANUFACTURER AGREES TO REPAIR OR REPLACE **STANDING-SEAM** METAL ROOF PANEL ASSEMBLIES THAT LEAK OR OTHERWISE FAIL TO REMAIN WEATHERTIGHT WITHIN SPECIFIED WARRANTY PERIOD.

WARRANTY PERIOD: 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

##### PRODUCTS

##### SOURCE LIMITATIONS

OBTAIN METAL BUILDING SYSTEM COMPONENTS, INCLUDING PRIMARY AND SECONDARY FRAMING AND METAL PANEL ASSEMBLIES, FROM A SINGLE SOURCE MANUFACTURER.

##### MANUFACTURERS

BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRE-ENGINEERED METAL BUILDING SYSTEM AS MANUFACTURED BY **RENEGADE STEEL BUILDINGS, INC.**, 2151 HOMER ROAD, COMMERCE, GA ([sales@renegadesteelbuildings.com](mailto:sales@renegadesteelbuildings.com)), 877-363-4223) OR EQUIVALENT PRODUCT BY ONE OF THE FOLLOWING:

- CHIEF BUILDINGS: CHIEF INDUSTRIES, INC.
- MID-WEST STEEL BUILDING COMPANY: AN NCI COMPANY.
- NUCOR BUILDING SYSTEMS.
- VARCO PRUDEN BUILDINGS
- AMERICAN BUILDINGS

##### PERFORMANCE REQUIREMENTS

DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN METAL BUILDING SYSTEM.

STRUCTURAL PERFORMANCE: METAL BUILDING SYSTEMS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED ACCORDING TO PROCEDURES IN MBMA'S "METAL BUILDING SYSTEMS MANUAL."

- DESIGN LOADS: AS INDICATED ON STRUCTURAL DRAWINGS.
- BUILDING CODE: DESIGN SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE.
- DEFLECTION AND DRIFT LIMITS: DESIGN METAL BUILDING SYSTEM ASSEMBLIES TO WITHSTAND SERVICEABILITY DESIGN LOADS WITHOUT EXCEEDING DEFLECTIONS AND DRIFT LIMITS RECOMMENDED IN AISI "DESIGN GUIDE NO. 3: SERVICEABILITY DESIGN CONSIDERATION FOR STEEL BUILDINGS".
- DEFLECTION AND DRIFT LIMITS: NO GREATER THAN THE FOLLOWING:
  - PURLINS AND RAFTERS: VERTICAL DEFLECTION OF 1/180 OF THE SPAN.
  - PRIMARY FRAMING: HORIZONTAL DEFLECTION OF 1/60 OF THE HEIGHT.
  - GIRTS: HORIZONTAL DEFLECTION OF 1/60 OF THE SPAN.
  - METAL ROOF OF PANELS: VERTICAL DEFLECTION OF 1/60 OF THE SPAN.
  - METAL WALL PANELS: HORIZONTAL DEFLECTION OF 1/60 OF THE SPAN.
  - DESIGN SECONDARY-FRAMING SYSTEM TO ACCOMMODATE DEFLECTION OF PRIMARY FRAMING AND CONSTRUCTION TOLERANCES, AND TO MAINTAIN CLEARANCES AT OPENINGS.
  - LATERAL DRIFT: MAXIMUM OF 1/60 OF THE BUILDING HEIGHT.

SEISMIC PERFORMANCE: METAL BUILDING SYSTEM SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7 AND/OR PERFORMANCE CRITERIA ON STRUCTURAL DRAWINGS/NOTES.

THERMAL MOVEMENTS: ALLOW FOR THERMAL MOVEMENTS FROM AMBIENT AND SURFACE TEMPERATURE CHANGES BY PREVENTING BUCKLING, OPENING OF JOINTS, OVERSTRESSING OF COMPONENTS, FAILURE OF JOINT SEALANTS, FAILURE OF CONNECTIONS, AND OTHER DETRIMENTAL EFFECTS. BASE CALCULATIONS ON SURFACE TEMPERATURES OF MATERIALS DUE TO BOTH SOLAR HEAT GAIN AND NIGHTTIME-SKY HEAT LOSS.

- TEMPERATURE CHANGE: 120 DEG F (67 DEG C), AMBIENT; 180 DEG F, MATERIAL SURFACES.

STRUCTURAL PERFORMANCE FOR METAL ROOF AND WALL PANELS: PROVIDE METAL PANEL SYSTEMS CAPABLE OF WITHSTANDING THE EFFECTS OF THE FOLLOWING LOADS, BASED ON TESTING ACCORDING TO ASTM E 1592:

- WIND LOADS: AS INDICATED ON DRAWINGS.

WATER PENETRATION FOR METAL ROOF PANELS: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM E1646 AT TEST-PRESSURE DIFFERENCE OF 6.24 LBS/5F.

WATER PENETRATION FOR METAL WALL PANELS: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT TEST-PRESSURE DIFFERENCE OF 6.24 LBS/5F.

WIND-UPLIFT RESISTANCE: PROVIDE METAL ROOF PANEL ASSEMBLIES THAT COMPLY WITH UL 580 FOR WIND-UPLIFT-RESISTANCE CALSS INDICATED.

- UPLIFT RATING: UL 90.

THERMAL PERFORMANCE FOR OPAQUE ELEMENTS: PROVIDE THE FOLLOWING MINIMUM R-VALUES WHEN TESTED AS PER ASTM C 1363 OR ASTM C 516 AND IN COMPLIANCE WITH ASHRAE 90.1 LATEST EDITION REQUIRED FOR THE PROJECT.

- ROOF R-VALUE: R-40 (R-28.0 CAVITY + R-12.0 CONTINUOUS).
- WALLS R-VALUE: R-40 (R-28.0 CAVITY + R-12.0 CONTINUOUS).

#### STRUCTURAL-STEEL FRAMING

STRUCTURAL STEEL: COMPLY WITH AISI 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."

BOLTED CONNECTIONS: COMPLY WITH RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS."

COLD-FORMED STEEL: COMPLY WITH AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" FOR DESIGN REQUIREMENTS AND ALLOWABLE STRESSES.

PRIMARY FRAMING: MANUFACTURER'S STANDARD RIGID CLEAR SPAN SOLID-MEMBER FRAMING SYSTEM WITHOUT INTERIOR COLUMNS.

- FRAME CONFIGURATION: AS INDICATED ON DRAWINGS.

END-WALL FRAMING: MANUFACTURER'S STANDARD FOR BUILDINGS NOT REQUIRED TO BE EXPANDABLE.

SECONDARY FRAMING: MANUFACTURER'S STANDARD PURLINS AND JOISTS AND EXTERIOR-FRAMED (BYPASS) GIRTS.

ANCHOR BOLTS: HEADED ANCHOR RODS AS INDICATED IN ANCHOR ROD PLAN FOR ATTACHMENT OF BUILDING TO FOUNDATION. REFER ALSO TO STRUCTURAL FOUNDATION DRAWINGS.

#### METAL ROOF PANELS

EXPOSED-FASTENER RIBBED METAL ROOF PANEL IN MANUFACTURER'S STANDARD ROLLED FORMED PROFILE.

- ZINC-COATED OR ALUMINUM-ZINC ALLOY-COATED SHEET STEEL 0.018-INCH (26 GA.) NOMINAL UNCOATED STEEL THICKNESS.
- ONE PIECE LENGTHS AND ENDLAPS, WHEN REQUIRED SHALL BE 8" AND OCCUR AT A PURLIN.
- EXTERIOR FINISH: TWO-COAT PVDF IN COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE.
- CONCEALED FINISH: APPLY PRETREATMENT AND MANUFACTURER'S STANDARD WHITE OR LIGHT-COLORED ACRYLIC OR POLYESTER BACKER FINISH.

#### METAL WALL PANELS

EXPOSED-FASTENER METAL PANELS IN MANUFACTURER'S STANDARD ROLLED FORMED PROFILE COVERING A NET COVERAGE OF 36".

- ZINC-COATED OR ALUMINUM-ZINC ALLOY-COATED SHEET STEEL 0.018-INCH (26 GA.) NOMINAL UNCOATED STEEL THICKNESS. PREPAINTED BY THE COIL-COATING PROCESS TO COMPLY WITH ASTM A755/A755M.
- EXTERIOR FINISH: TWO-COAT PVDF IN COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE.
- CONCEALED FINISH: APPLY PRETREATMENT AND MANUFACTURER'S STANDARD WHITE OR LIGHT-COLORED ACRYLIC OR POLYESTER BACKER FINISH.
- PANELS SHALL BE ONE PIECE FROM BASE TO EAVE.

#### THERMAL INSULATION SYSTEM

BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ENERGY SAVER DOUBLE LAYER WALL INSULATION SYSTEM AS MANUFACTURED BY **SILVERCOTE**, 2915 LOGUE COURT, GREENVILLE, SC 29615 ([info@silvercote.com](mailto:info@silvercote.com)).

WALL INSULATION SYSTEM INCLUDES THE FOLLOWING:

- WOVEN HPDE SCIRM FABRIC
  - COATING: 2.0 MIL THICK
  - COLOR: WHITE/GRAY
  - WEIGHT: 4.4 OZ/YD2
  - THICKNESS: NOMINAL 9 MIL, ASTM D1777
- METAL STRAPPING USED TO SUPPORT SCIRM FABRIC
  - HOT DIPPED GALVANIZED STEEL, GRADE 60, ZINC COATED PER ASTM A653
  - MIN. 0.022" X 1"
  - COLOR: WHITE
- CAVITY INSULATION
  - MINERAL-FIBER-BLANKET INSULATION: ASTM C665, CONSISTING OF FIBERS MANUFACTURED FROM GLASS, SLAGWOOL, OR ROCK WOOL.
  - UNFACED: TYPE 1 PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.
- EXTERIOR INSULATION
  - MINERAL-FIBER-BLANKET INSULATION: ASTM C665, CONSISTING OF FIBERS MANUFACTURED FROM GLASS, SLAGWOOL, OR ROCK WOOL.
  - FACED: ALUMINUM FOIL FACED AND PERFORATED.
  - PERMEANCE ASTM E96 >10 PERM, PROCEDURE A.
  - ASTM E84 FLAME SPREAD 5, SMOKE DEVELOPED 0

ROOF INSULATION SYSTEM INCLUDES THE FOLLOWING:

- WOVEN HPDE SCIRM FABRIC
  - COATING: 2.0 MIL THICK
  - COLOR: WHITE/GRAY
  - WEIGHT: 4.4 OZ/YD2
  - THICKNESS: NOMINAL 9 MIL, ASTM D1777
- METAL STRAPPING USED TO SUPPORT SCIRM FABRIC
  - HOT DIPPED GALVANIZED STEEL, GRADE 60, ZINC COATED PER ASTM A653
  - MIN. 0.022" X 1"
  - COLOR: WHITE
- CAVITY INSULATION
  - MINERAL-FIBER-BLANKET INSULATION: ASTM C665, CONSISTING OF FIBERS MANUFACTURED FROM GLASS, SLAGWOOL, OR ROCK WOOL.
  - UNFACED: TYPE 1 PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.
- EXTERIOR INSULATION
  - MINERAL-FIBER-BLANKET INSULATION: ASTM C665, CONSISTING OF FIBERS MANUFACTURED FROM GLASS, SLAGWOOL, OR ROCK WOOL.
  - UNFACED: TYPE 1 PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS

INSULATION ACCESSORIES: MANUFACTURER'S STANDARD SEALANT, HANGERS, FASTENERS, CLIPS, TAPE & ADHESIVE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.

#### BUILDING ACCESSORIES

GENERAL: PROVIDE ACCESSORIES AS STANDARD WITH METAL BUILDING SYSTEM MANUFACTURER AND AS SPECIFIED. FABRICATE AND FINISH ACCESSORIES AT THE FACTORY TO GREATEST EXTENT POSSIBLE, BY MANUFACTURER'S STANDARD PROCEDURES AND PROCESSES, COMPLY WITH INDICATED PROFILES AND WITH DIMENSIONAL AND STRUCTURAL REQUIREMENTS.

- FORM EXPOSED SHEET METAL ACCESSORIES THAT ARE WITHOUT EXCESSIVE OIL-CANNING, BUCKLING, AND TOOL MARKS AND THAT ARE TRUE TO LINE AND LEVELS INDICATED, WITH EXPOSED EDGES FOLDED BACK TO FORM HEMS.

ROOF PANEL ACCESSORIES: PROVIDE COMPONENTS REQUIRED FOR A COMPLETE METAL ROOF PANEL ASSEMBLY INCLUDING COPINGS, FASCIAE, CORNER UNITS, RIDGE CLOSURES, CLIPS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL ROOF PANELS UNLESS OTHERWISE INDICATED.

WALL PANEL ACCESSORIES: PROVIDE COMPONENTS REQUIRED FOR A COMPLETE METAL WALL PANEL ASSEMBLY INCLUDING COPINGS, FASCIAE, MULLIONS, SILLS, CORNER UNITS, CLIPS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS. MATCH MATERIAL AND FINISH OF METAL WALL PANELS UNLESS OTHERWISE INDICATED.

FLASHING AND TRIM: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET, 0.017-INCH (26 GA.) NOMINAL UNCOATED STEEL THICKNESS, PREPAINTED WITH COIL COATING, FINISHED TO MATCH ADJACENT METAL PANELS.

GUTTERS: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET, 0.018 NOMINAL UNCOATED STEEL THICKNESS, PREPAINTED WITH COIL COATING, FINISHED TO MATCH ROOF FASCIA AND RAKE TRIM. MATCH PROFF, COMPLETE WITH END PIECES, OUTLET TUBES, AND OTHER SPECIAL PIECES AS REQUIRED. FABRICATE IN MINIMUM 10-FOOT- (3-M.) LONG SECTIONS, SIZED ACCORDING TO SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL."

- GUTTER SUPPORTS: FABRICATED FROM SAME MATERIAL AND FINISH AS GUTTERS.

DOWNSPOUTS: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET, 0.024-INCH (0.61-MM) NOMINAL UNCOATED STEEL THICKNESS, PREPAINTED WITH COIL COATING, FINISHED TO MATCH METAL WALL PANELS. FABRICATE IN MINIMUM 10-FOOT LONG SECTIONS, COMPLETE WITH FORMED ELBOWS AND OFFSETS.

- MOUNTING STRAPS: FABRICATED FROM SAME MATERIAL AND FINISH AS GUTTERS.

#### EXECUTION

##### ERECTION OF STRUCTURAL FRAMING

ERECT METAL BUILDING SYSTEM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND DRAWINGS.

DO NOT FIELD CUT, DRILL, OR ALTER STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL

FROM METAL BUILDING SYSTEM MANUFACTURER'S PROFESSIONAL ENGINEER.

SET STRUCTURAL FRAMING ACCURATELY IN LOCATIONS AND TO ELEVATIONS INDICATED, ACCORDING TO AISI SPECIFICATIONS REFERENCED IN THIS SECTION. MAINTAIN STRUCTURAL STABILITY OF FRAME DURING ERECTION.

BASE AND BEARING PLATES: CLEAN CONCRETE- AND MASONRY-BEARING SURFACES OF BOND-REDUCING MATERIALS AND ROUGHEN SURFACES PRIOR TO SETTING PLATES. CLEAN BOTTOM SURFACE OF PLATES.

- SET PLATES FOR STRUCTURAL MEMBERS ON WEDGES, SHIMS, OR SETTING NUTS AS REQUIRED.
- TIGHTEN ANCHOR RODS AFTER SUPPORTED MEMBERS HAVE BEEN POSITIONED AND PLUMBED. DO NOT REMOVE WEDGES OR SHIMS BUT, IF PROTRUDING, CUT OFF FLUSH WITH EDGE OF PLATE BEFORE PACKING WITH GROUT.
- PROMPTLY PACK GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES SO NO VOIDS REMAIN. NEATLY FINISH EXPOSED SURFACES; PROTECT GROUT AND ALLOW TO CURE. COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR SHRINKAGE-RESISTANT GROUTS.

ALIGN AND ADJUST STRUCTURAL FRAMING BEFORE PERMANENTLY FASTENING. BEFORE ASSEMBLY, CLEAN BEARING SURFACES AND OTHER SURFACES THAT WILL BE IN PERMANENT CONTACT WITH FRAMING. PERFORM NECESSARY ADJUSTMENTS TO COMPENSATE FOR DISCREPANCIES IN ELEVATIONS AND ALIGNMENT.

- LEVEL AND PLUMB INDIVIDUAL MEMBERS OF STRUCTURE.
- OF ERECTION AND MEAN TEMPERATURE WHEN STRUCTURE WILL BE COMPLETED AND IN SERVICE.

PRIMARY FRAMING AND END WALLS: ERECT FRAMING LEVEL, PLUMB, RIGID, SECURE, AND TRUE TO LINE. LEVEL BASEPLATE AND END WALLS WITH FULL BEARING TO SUPPORTING STRUCTURES. SET WITH DOUBLE-NUTTED ANCHOR BOLTS. USE GROUT TO OBTAIN UNIFORM BEARING AND TO MAINTAIN A LEVEL BASE-LINE ELEVATION. MOIST-CURE GROUT FOR NOT LESS THAN SEVEN DAYS AFTER PLACEMENT.

- MAKE FIELD CONNECTIONS USING HIGH-STRENGTH BOLTS INSTALLED ACCORDING TO RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR BOLT TYPE AND JOINT TYPE SPECIFIED.
  - JOINT TYPE: SNUG TIGHTENED OR PRETENSIONED AS REQUIRED BY MANUFACTURER.

SECONDARY FRAMING: ERECT FRAMING LEVEL, PLUMB, RIGID, SECURE, AND TRUE TO LINE. FIELD BOLT SECONDARY FRAMING TO CLIPS ATTACHED TO PRIMARY FRAMING.

- PROVIDE RAKE OR GABLE PURLINS WITH TIGHT-FITTING CLOSURE CHANNELS AND FASCIAE.
- LOCATE AND SPACE WALL GIRTS TO SUIT OPENINGS SUCH AS DOORS AND WINDOWS.
- PROVIDE SUPPLEMENTAL FRAMING AT ENTIRE PERIMETER OF OPENINGS, INCLUDING DOORS, WINDOWS, VENTILATORS, AND OTHER PENETRATIONS OF ROOF AND WALLS.

BRACING: INSTALL BRACING IN ROOF AND SIDEWALLS WHERE INDICATED ON ERECTION DRAWINGS.

- TIGHTEN ROD AND CABLE BRACING TO AVOID SAG.
- LOCATE INTERIOR END-BAY BRACING ONLY WHERE INDICATED.

FRAMING FOR OPENINGS: PROVIDE SHAPES OF PROPER DESIGN AND SIZE TO REINFORCE OPENINGS AND TO CARRY LOADS AND VIBRATIONS IMPOSED, INCLUDING EQUIPMENT. FURNISH UNDER MECHANICAL AND ELECTRICAL WORK. SECURELY ATTACH TO STRUCTURAL FRAMING.

ERECTION TOLERANCES: MAINTAIN ERECTION TOLERANCES OF STRUCTURAL FRAMING WITHIN AISI 303.

#### METAL PANEL INSTALLATION, GENERAL

GENERAL: ANCHOR METAL PANELS AND OTHER COMPONENTS OF THE WORK SECURELY IN PLACE, WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT.

- FIELD CUT METAL PANELS AS REQUIRED FOR DOORS, WINDOWS, AND OTHER OPENINGS. CUT OPENINGS AS SMALL AS POSSIBLE, NEATLY TO SIZE REQUIRED, AND WITHOUT DAMAGE TO ADJACENT METAL PANEL FINISHES.
  - FIELD CUTTING OF METAL PANELS BY TORCH IS NOT PERMITTED UNLESS APPROVED IN WRITING BY MANUFACTURER.
- INSTALL METAL PANELS PERPENDICULAR TO STRUCTURAL SUPPORTS UNLESS OTHERWISE INDICATED.
- FLASH AND SEAL METAL PANELS WITH WEATHER CLOSURES AT PERIMETER OF OPENINGS AND SIMILAR ELEMENTS. FASTEN WITH SELF-TAPPING SCREWS.
- LOCATE AND SPACE FASTENINGS IN UNIFORM VERTICAL AND HORIZONTAL ALIGNMENT.
- LOCATE METAL PANEL SPLICES OVER STRUCTURAL SUPPORTS WITH END LAPS IN ALIGNMENT.
- LAP METAL FLASHING OVER METAL PANELS TO ALLOW MOISTURE TO RUN OVER AND OFF THE MATERIAL.

LAP-SEAM METAL PANELS: INSTALL SCREW FASTENERS USING POWER TOOLS WITH CONTROLLED TORQUE ADJUSTED TO COMPRESS EPDM WASHERS TIGHTLY WITHOUT DAMAGE TO WASHERS, SCREW THREADS, OR METAL PANELS. INSTALL SCREWS IN PREDRILLED HOLES.

- ARRANGE AND NEST SIDE-LAP JOINTS SO PREVAILING WINDS BLOW OVER, NOT INTO, LAPPED JOINTS. LAP RIBBED OR FLUTED SHEETS ONE FULL RIB CORRUGATION. APPLY METAL PANELS AND ASSOCIATED ITEMS FOR NEXT TO NEXT-TOGETHER ENCLOSURE. AVOID "PANEL CREEP" OR APPLICATION NOT TRUE TO LINE.

METAL PROTECTION: WHERE DISSIMILAR METALS CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH CORROSION-RESISTANT COATING, BY APPLYING RUBBERIZED-ASPHALT UNDERLAYMENT TO EACH CONTACT SURFACE, OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY METAL ROOF PANEL MANUFACTURER.

JOINT SEALERS: INSTALL GASKETS, JOINT FILLERS, AND SEALANTS WHERE INDICATED AND WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF METAL PANEL ASSEMBLIES.

PROVIDE TYPES OF GASKETS, FILLERS, AND SEALANTS INDICATED; OR, IF NOT INDICATED, PROVIDE TYPES RECOMMENDED BY METAL PANEL MANUFACTURER.

- SEAL METAL PANEL END LAPS WITH DOUBLE BEADS OF TAPE OR SEALANT THE FULL WIDTH OF PANEL. SEAL SIDE JOINTS WHERE RECOMMENDED BY METAL PANEL MANUFACTURER.
- PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH REQUIREMENTS IN SECTION 079200 "JOINT SEALANTS."

#### METAL ROOF PANEL INSTALLATION

GENERAL: PROVIDE METAL ROOF PANELS OF FULL LENGTH FROM EAVE TO RIDGE UNLESS OTHERWISE INDICATED OR RESTRICTED BY SHIPPING LIMITATIONS.

- INSTALL RIDGE CAPS AS METAL ROOF PANEL WORK PROCEEDS.
- FLASH AND SEAL METAL ROOF PANELS WITH WEATHER CLOSURES AT EAVES AND RAKES. FASTEN WITH SELF-TAPPING SCREWS.

LAP-SEAM METAL ROOF PANELS: FASTEN METAL ROOF PANELS TO SUPPORTS WITH EXPOSED FASTENERS AT EACH LAPPED JOINT, AT LOCATION AND SPACING AS RECOMMENDED BY MANUFACTURER.

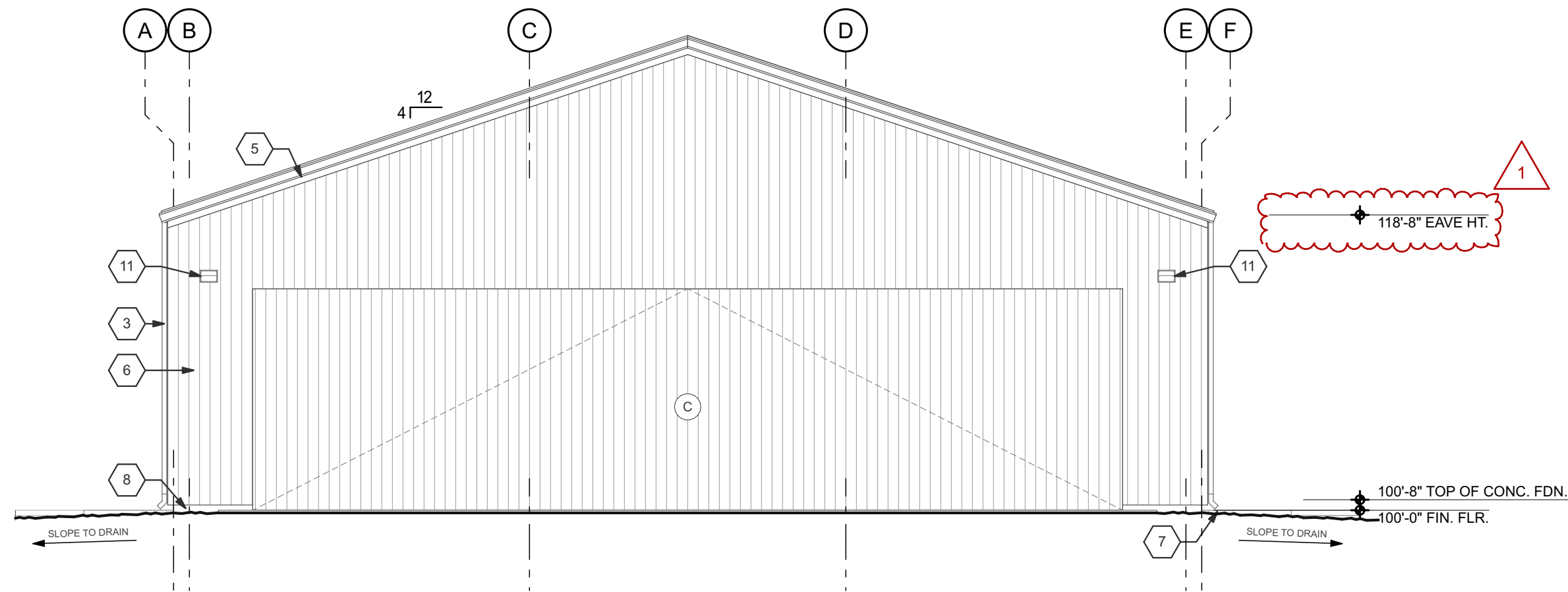
- PROVIDE METAL-BACKED SEALING WASHERS UNDER HEADS OF EXPOSED FASTENERS BEARING ON WEATHER SIDE OF METAL ROOF PANEL.
- PROVIDE SEALANT TAPE AT LAPPED JOINTS OF METAL ROOF PANELS AND BETWEEN PANELS AND PROTRUDING EQUIPMENT, VENTS, AND ACCESSORIES.
- APPLY A CONTINUOUS RIBBON OF SEALANT TAPE TO WEATHER-SIDE SURFACE OF FASTENINGS ON END LAPS AND ON SIDE LAPS OF NESTING-TYPE METAL PANELS, ON SIDE LAPS OF RIBBED OR FLUTED METAL PANELS, AND WHEREVER AS NEEDED TO MAKE METAL PANELS WEATHERPROOF TO DRIVING RAINS.
- AT METAL PANEL SPLICES, NEST PANELS WITH MINIMUM 6" END LAP, SEALED WITH BUTYL-RUBBER SEALANT AND FASTENED TOGETHER BY INTERLOCKING CLAMPING PLATES.

METAL ROOF PANEL INSTALLATION TOLERANCES: SHIM AND ALIGN METAL ROOF PANELS WITH INSTALLED TOLERANCES OR 1/4-INCH IN 20 FEET ON SLOPE AND LOCATION LINES WITHIN 1/8-INCH OFFSET OF ADJOINING FACES AND OF ALIGNMENT OF MATCHING PROFILES.

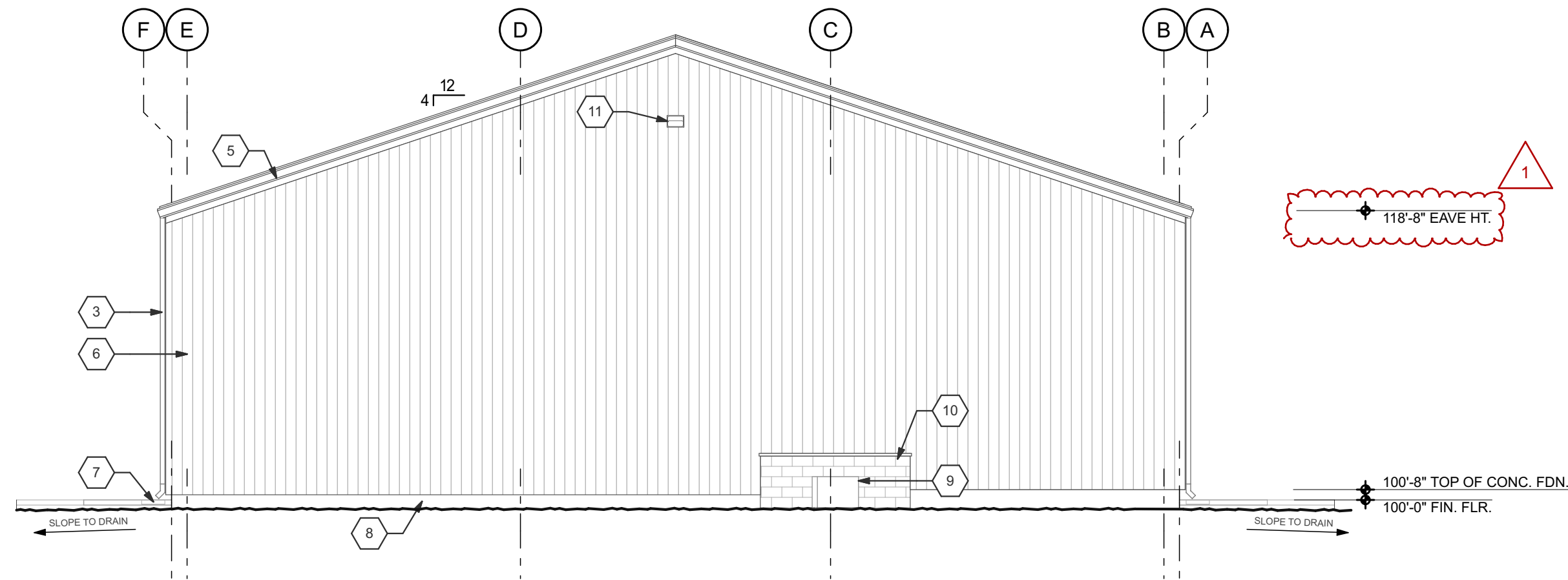
#### METAL WALL PANEL INSTALLATION

GENERAL: INSTALL METAL WALL PANELS IN ORIENTATION, SIZES, AND LOCATIONS INDICATED ON DRAWINGS. INSTALL PANELS PERPENDICULAR TO GIRTS, EXTENDING FULL HEIGHT OF BUILDING, UNLESS OTHERWISE INDICATED. ANCHOR METAL WALL PANELS AND OTHER COMPONENTS OF THE WORK SECURELY IN PLACE, WITH PROVISIONS FOR THERMAL AND STRUCTURAL MOVEMENT.

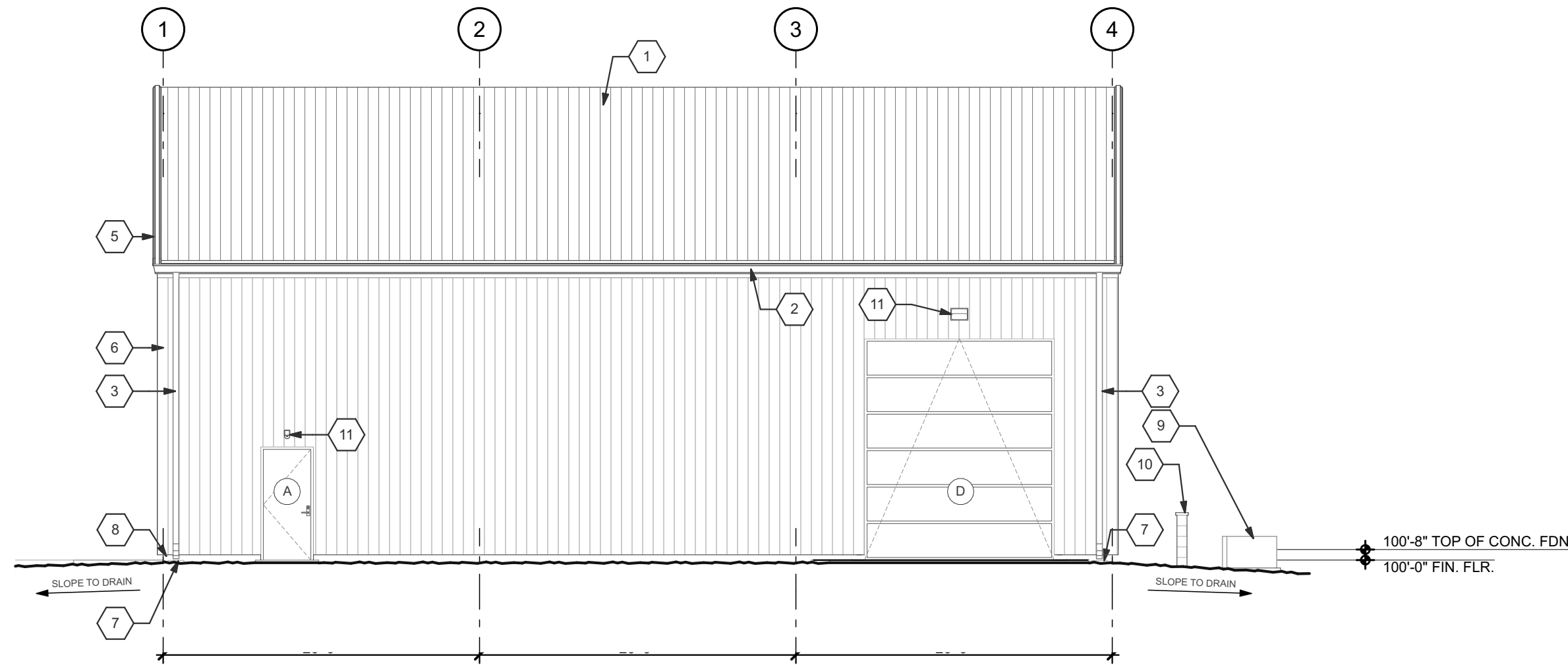




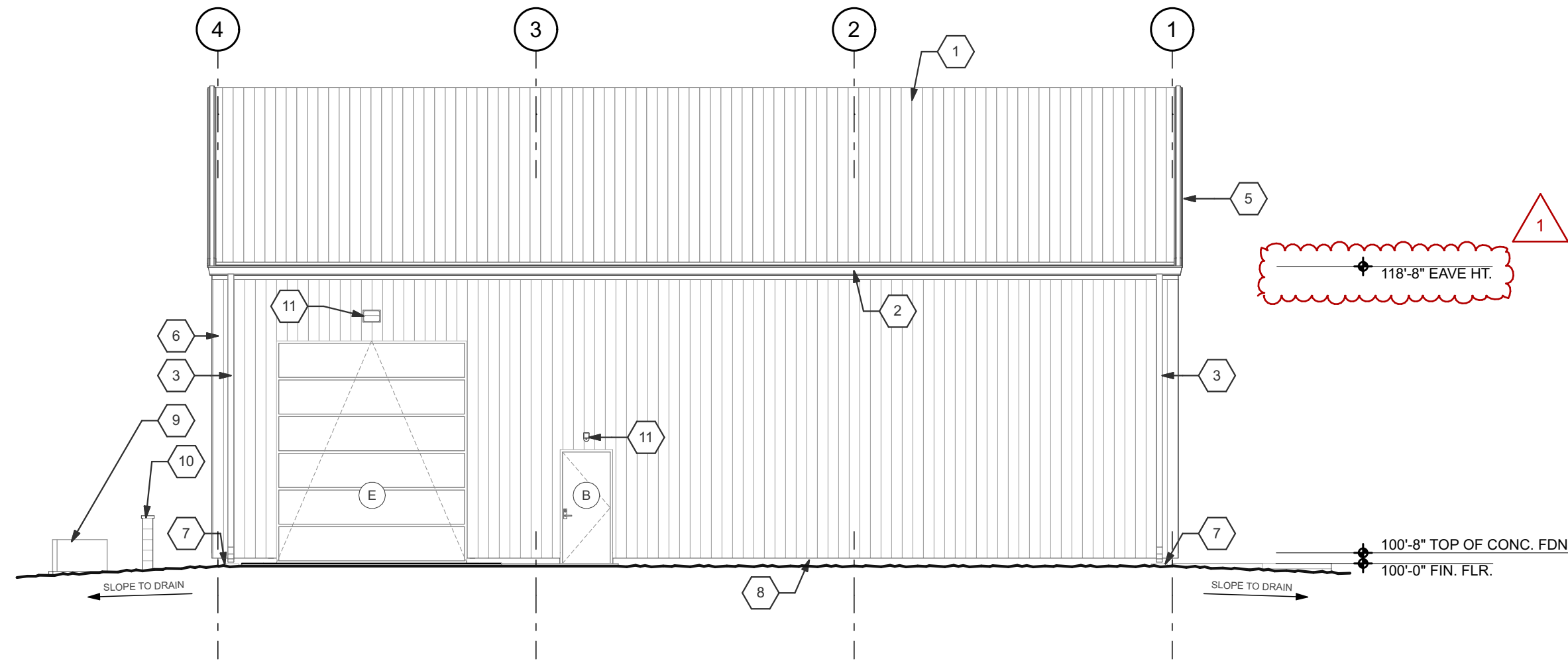
1 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION  
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION  
SCALE: 1/8" = 1'-0"



4 NORTH ELEVATION  
SCALE: 1/8" = 1'-0"

- EXTERIOR ELEVATION NOTES
- ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.
- 26 GA. METAL ROOF PANELS. COLOR SELECTED BY ARCHITECT FROM MANUFACTURER FULL RANGE.
  - 7" METAL GUTTER BY METAL BUILDING MANUFACTURER.
  - 4" X 5" (NOM) METAL DOWNSPOUT, BY METAL BUILDING MANUFACTURER.
  - OMIT
  - 9" METAL FASCIA, BY METAL BUILDING MANUFACTURER.
  - 26 GA. METAL WALL PANELS, BY METAL BUILDING MANUFACTURER. COLOR SELECTED BY ARCHITECT FROM MANUFACTURER FULL RANGE.
  - CONCRETE SPLASH PAD
  - CONCRETE KNEE WALL
  - TRANSFORMER. REFER TO ELECTRICAL DRAWINGS.
  - 8" CMU WITH INTEGRAL WATER REPELLENT, GROUT SOLID. MINIMUM 1 - HOUR FIRE RESISTANT RATED WALL FOR TRANSFORMER. VERIFY FINAL DIMENSIONS OF WALL AND DISTANCE FROM PAD AND TRANSFORMER WITH UTILITY COMPANY. REFER TO DETAIL 3/A6.1.
  - OUTDOOR LIGHT, REFER TO ELECTRICAL DRAWINGS.

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#### ELEVATION LEGEND

- # KEY NOTE, SEE ABOVE.
- # DOOR OPENING, REFER TO DOOR SCHEDULE ON SHEET A7.1

These designs and all items depicted herein, whether in writing or graphically, as instruments of professional service, may not be altered or changed, in any way, without the prior knowledge, and written consent of the Architect. Any change made without the Architect's written approval will void all such documents and instruments and the Architect will not be personally liable for any damage, harm or loss caused thereby.

| REVISIONS             |         |
|-----------------------|---------|
| PLAN APPROVAL/BIDDING | 2/25/26 |
| ADDENDUM 1            | 7/16/26 |

| COMM. NUMBER | DATE       |
|--------------|------------|
| 2511         | 2/25/26    |
| DRAWN BY     | CHECKED BY |
| LP           | RS         |

EXTERIOR ELEVATIONS

A4.1