

ARCHITECT'S ADDENDUM

Addendum Number: 004

Date: October 19, 2026

RE: EASD #131 East Aurora High School
2027 Mechanical Improvements

Prepared By: Alejandro Rojas
Cordogan, Clark & Associates

CCA Project No.: 261012

To: Prospective Bidders

Subject: Addendum No. 004 to the Construction Documents for the EASD #131 East Aurora High School 2027 Mechanical Improvements Project.

This Addendum forms a part of the Construction Documents and modifies the original Construction Documents, dated 10.01.2026. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

THE FOLLOWING ITEMS ARE TO BE INCLUDED IN THE PROPOSAL.

General Clarifications:

1. RFI Log – 10.19.2026 is included with this addendum.

Clarifications to the Specifications:

1. SECTION 075113 - SEBS MODIFIED BITUMEN ROOFING (ROOF SYSTEM #1 & #2)
 - **ADD:** specification section in its entirety.
2. SECTION 075630 - FLUID APPLIED ROOFING RESTORATION (ROOF SYSTEM #3)
 - **ADD:** specification section in its entirety.
3. SECTION 096519 – RESILIENT TILE FLOORING
 - **ADD:** specification section in its entirety.

Clarifications to the Architectural Drawings:

1. C-A2.31 – AREA C – FIRST FLOOR PLAN

- **REPLACE** sheet in its entirety.
- **REVISED** Floor Finish Legend, Carpet Tile (CPT-1) has been changed to Luxury Vinyl Tile (LVT-1). Room Finish Schedule and Finish Material Legend have been updated to reflect this change.
- LVT-1 – Manufacturer: J+J Flooring, Style: Classics V5000, Color: Archetype 1001, Size: 9" x 48".

2. R-4.00 – ROOF PLANS – BASE BID

- **REPLACE** sheet in its entirety.
- **REVISED** Roof Demolition Keynotes
- **REVISED** Roofing Keynotes
- **ADDED** New Roof Construction Legend

3. R-4.10 – ROOF PLANS – ALTERNATES

- **REPLACE** sheet in its entirety.
- **REVISED** Demolition Keynotes
- **ADDED** New Roof Construction Legend
- **REVISED** New Work Keynotes – Alternates
- **ADDED** Existing Conditions Photos

4. R-4.11 – ROOF PLANS – ALTERNATES

- **REPLACE** sheet in its entirety.
- **ADDED** Axon Detail 3/R-4.11 – Roof System #1 (Full Replacement Mod Bit)
- **ADDED** Axon Detail 4/R-4.11 – Roof System #2 (Mod Bit Over Build)
- **ADDED** Axon Detail 5/R-4.11 – Roof System #3 (EPDM Restoration Coat)
- **REVISED** Demolition Keynotes
- **ADDED** New Roof Construction Legend
- **REVISED** New Work Keynotes – Alternates
- **ADDED** Existing Conditions Photos

5. R-5.00 – ROOF DETAILS

- **ADDED** new sheet in its entirety with associated details.

Attachments:

1. RFI Log – 10.19.2026
2. Section 075113 - SEBS Modified Bitumen Roofing (Roof System #1 & #2)
3. Section 075630 - Fluid Applied Roofing Restoration (Roof System #3)
4. Section 096519 – Resilient Tile Flooring
5. Sheet C-A2.31 – Area C – First Floor Plan
6. Sheet R-4.00 – Roof Plans – Base Bid

7. Sheet R-4.10 – Roof Plans – Alternates
8. Sheet R-4.11 – Roof Plans – Alternates
9. Sheet R-5.00 – Roof Details

End Of Addendum No. 004

2027 MECHANICAL IMPROVEMENTS
EAST AURORA HIGH SCHOOL
500 TOMCAT LANE, AURORA, IL 60505
EAST AURORA SCHOOL DISTRICT #131
PROJECT NUMBER: 261012

CORDOGAN CLARK & ASSOCIATES, INC.
515 REDWOOD DRIVE
AURORA, ILLINOIS 60506
630-896-4678
OCTOBER 2026

ADDENDUM 04

SECTION 075113 – SEBS MODIFIED BITUMEN ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Modified Bitumen roofing system.
 - 2. Roof insulation.
- B. Related Sections include the following:
 - 1. Division 6 Section "Rough Carpentry" for wood nailers, cants, curbs, and blocking.
 - 2. Division 7 Section "Sheet Metal Flashing and Trim" for metal roof penetration flashings, flashings, and counterflashings.
- C. Unit Prices: Refer to Division 1 Section "Unit Prices" for description of Work in this Section affected by unit prices.

1.3 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.
- B. Hot Roofing Asphalt: Roofing asphalt heated to its equiviscous temperature, the temperature at which its viscosity is 125 centipoise for mopping application and 75 centipoise for mechanical application, within a range of plus or minus 25 deg F (14 deg C), measured at the mop cart or mechanical spreader immediately before application.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.
 - 1. Insulation fastening patterns.
- C. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- D. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 - 1. Submit evidence of meeting performance requirements.
- E. Qualification Data: For Installer and manufacturer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for components of roofing system.
 - 1. Indicate that bulk roofing asphalt materials delivered to project comply with requirements. Include quantity and statistical and descriptive data for each product. Submit certificate with each load before it is used.
 - 2. Include continuous log showing time and temperature for each load of bulk asphalt, indicating date obtained from manufacturer, where held, and how transported before final heating and application on roof.
- G. Research/Evaluation Reports: For components of roofing system.
- H. Maintenance Data: For roofing system to include in maintenance manuals.
- I. Warranties: Special warranties specified in this Section.
- J. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced roofing contractor with minimum 5 years in business under the same name. Roofing contractor must be experienced in installing roof systems similar in scope and size to this project and is certified by the modified bituminous sheet roofing system manufacturer as qualified to install and provide the long term warranty of specified manufacturer's roofing materials. All bidding roofing contractors must have full-time roofing installers on the payroll of the company and have an established certified and verifiable apprenticeship training program for minimum 5 years. Brokers or jobbers that subcontract roofing work are not acceptable for certification to bid. All contractors must provide an AIA Qualification Form with their roofing bid to be considered as a responsible bidder.
- B. Manufacturer Qualifications: A qualified manufacturer that has UL listing for roofing system identical to that used for this Project.
- C. Written verification from roofing system manufacturer that major roofing components, including coatings, cold process adhesives, roofing ply sheets, reinforcement fabric felts and mats, mastics and sealants are all manufactured by the same supplier and are compatible with each other. All major system components are to be sourced from a single supplier source that will be issuing the entire roof system warranty.
- D. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated, as documented according to ASTM E 548.
- E. Source Limitations: Obtain components for roofing system from or approved by roofing system manufacturer.
- F. Fire-Test-Response Characteristics: Provide roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure: Class A; ASTM E 108, for application and roof slopes indicated.
- G. Preinstallation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
 - 1. Meet with Owner, Architect, testing and inspecting agency representative(if applicable), roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.

6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storage.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Remove shipping wrap from insulation and store beneath tarpaulin. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.8 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
 1. Special warranty includes roofing membrane, insulation, insulation adhesive, fasteners, flashings, asphalt, felts, mastics, pipe vents, caulking, termination strips, etc. as well as all metal work, wood nailers, cants, etc. The warranty coverage will include all wind damage up to 74 mph.
 2. Manufacturer will provide the following as part of the warranty, at year 2.

- a. Inspection by a Technical Service Representative and delivery of a written inspection report documenting roof conditions.
 - b. Preventative maintenance and necessary repairs, including splits, tears, or breaks in the roof membrane system and flashings that could inhibit sound roof performance and are not exempt due to neglect, negligence, vandalism, or some other exclusion.
 3. General housekeeping and cleanup, subject to limits, but generally including removal of debris from the roof membrane, roof drains, and scuppers.
 4. Warranty Period: **Base Bid** 30 years from date of Substantial Completion.
- B. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. SEBS-Modified Bituminous Membrane Roofing:
 - a. Garland Company
 - b. Tremco
 - c. Ecology

2.2 SEBS-MODIFIED BITUMINOUS MATERIALS

- A. SEBS- Modified Bituminous Sheet, Mineral Surfaced: 145 mil, SEBS-modified asphalt sheet, with continuous layer of mineral granules factory applied to top exposed surface; suitable for application method specified; for use and reinforcing type and granule color as follows:
1. Granule Color: White.
 2. Reinforcing: Combination fiberglass/ polyester.
 3. Use: Field Ply and Base flashing.
- B. Physical Properties: Provide smooth surfaces SEBS-modified bituminous membrane materials with the following properties when tested according to ASTM D 5147:
1. Thickness: 145 mils.
 2. Tensile Strength: 310 lbf/in.MD, 310lbf/in.CMD.
 3. Elongation at Maximum Load: 3.5 percent at 73 deg F in each direction.
 4. Tear Strength: 500 lbf minimum in each direction..

5. Low-Temperature Flexibility: Pass at minus 30 deg F (minus 23 deg C).
6. Compound Stability: Not less than 250 deg F.

2.3 ASPHALT MATERIALS

- A. Asphalt Primer: Quick drying water based asphaltic primer.
- B. Roofing Asphalt: ASTM D 312, Type III.

2.4 AUXILIARY ROOFING MEMBRANE MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with built-up roofing.
- B. Pyramic White Roof Coating: White fire retardant roof coating formulated from water-based, pure acrylic, self curing latex polymers.
- C. Asphalt Roofing Cement: Asbestos free, of consistency required by roofing system manufacturer for application.
- D. Sealant: Polyurethane sealant by roof system manufacturer.
- E. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470; designed for fastening roofing membrane components to substrate; tested by manufacturer for required pullout strength; and acceptable to roofing system manufacturer.
- F. Metal Flashing Sheet: Metal flashing sheet is specified in Division 7 Section "Sheet Metal Flashing and Trim."
- G. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.5 ROOF INSULATION

- A. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
- B. Polyisocyanurate Board Insulation: Rigid, cellular polyisocyanurate thermal insulation complying with ASTM C 1289, classified by facer type as follows:
 1. Polyisocyanurate insulation board, 48-by-48-inch boards with Type II, felt or glass-fiber mat in both sides. Base insulation thickness as specified.
 2. Tapered polyisocyanurate insulation board, 48-by-48-inch boards with Type II, felt or glass-fiber matt on both sides used for saddles. The taper will be 1/2 inch per foot.
- C. Cover Board Insulation: High Density Wood Fiber, with top surface seal-coated, complying with ASTM C 728. Minimum thickness will be 1/2".

2.6 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Adhesive: roofing asphalt, ASTM D 312, Type III.
- D. Insulation Cant Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.
- E. Wood Nailer Strips: Comply with requirements in Division 6 Section "Rough Carpentry."
- F. Tapered Edge Strips: ASTM C 208, Type II, Grade 1, cellulosic-fiber insulation board.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
 - 1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
 - 2. Verify that wood cants, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that deck is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch (1.6 mm) out of plane relative to adjoining deck.
 - 4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.3 INSULATION INSTALLATION

- A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with roofing system manufacturer's written instructions for installing roof insulation.

- C. INSULATION ASSEMBLY – Overbuild over Existing Insulation: Remove existing EPDM membrane and mechanically fasten existing insulation in pattern determined by wind uplift calculations using screws and fastener plates. Install second layer of polyisocyanurate, flat or tapered according to the drawings, in Type III asphalt to achieve an minimum R-value of 30. In areas noted for roof saddle, provide tapered polyisocyanurate 48-by-48-inch boards to provide slope-to-drain where indicated, fabricated with taper of ½" inch per foot. Run long joints of insulation in continuous straight line, perpendicular to roof slope, with end joints staggered between rows. Stagger joints minimum 12" each direction.
- D. INSULATION ASSEMBLY – Metal Deck - Mechanically Fastened System (Roof Section 25): Clean and prime deck with manufacturer's roof primer. Install self-adhered vapor barrier. Install base layer of 2 inch polyisocyanurate mechanically attached to metal deck using metal plates and fasteners. Install second layer of polyisocyanurate, flat or tapered according to the drawings, in Type III asphalt to achieve an average R-value of 30. In areas noted for roof saddle, provide tapered polyisocyanurate 48-by-48-inch boards to provide slope-to-drain where indicated, fabricated with taper of ½" inch per foot. Run long joints of insulation in continuous straight line, perpendicular to roof slope, with end joints staggered between rows. Stagger joints minimum 12" each direction.
- E. INSULATION ASSEMBLY – Concrete Deck – Fully Adhered System (Roof Section 24): Clean and prime deck per manufacturer. Install 1 ply of torch applied base sheet directly to concrete deck. First layer of insulation boards of minimum 2.0-pcf density polyisocyanurate foam board, minimum thickness 1.5 inches set in Type III asphalt. Install second layer of polyisocyanurate, flat or tapered according to the drawings, in Type III asphalt to achieve an average R-value of 20. In areas noted for roof saddle, provide tapered polyisocyanurate 48-by-48-inch boards to provide slope-to-drain where indicated, fabricated with taper of ½" inch per foot. Install one layer of ½" high density wood fiber insulation overlay board over base layers set in Type III asphalt. Stagger joints minimum 12" each direction.
- F. Provide tapered polyisocyanurate with 1/2" FT slope at areas as indicated on drawings.
- G. Insulation Cant Strips: Install and secure preformed 45-degree insulation cant strips at junctures of built-up roofing membrane system with vertical surfaces or angle changes greater than 45 degrees.
- H. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
- I. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
- J. Install tapered edge strips at perimeter edges of roof that do not terminate at vertical surfaces.
- K. Mechanically Fastened: Install insulation to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
1. Fasten insulation according to FM I-60 wind uplift requirements.

- L. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 6 inches (150 mm) in each direction. Loosely butt cover boards together and fasten to roof deck.
 - 1. Apply hot roofing asphalt to underside and immediately bond cover board to substrate.
 - 2. Application rate: 25 lbs / 100 sq. ft.

3.4 ROOFING MEMBRANE REQUIREMENTS

- A. Install roofing membrane system according to roofing system manufacturer's written instructions and applicable recommendations of ARMA/NRCA's "Quality Control Guidelines for the Application of Modified Bitumen."
- B. Start installation of roofing membrane in presence of roofing system manufacturer's technical personnel.
- C. Coordinate installing roofing system components so insulation and roofing membrane sheets are not exposed to precipitation or left exposed at the end of the workday or when rain is forecast.
 - 1. Provide tie-offs at end of each day's work to cover exposed roofing membrane sheets and insulation with a course of coated felt set in roofing cement or hot roofing asphalt with joints and edges sealed.
 - 2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system.
 - 3. Remove and discard temporary seals before beginning work on adjoining roofing.
- D. Asphalt Heating: Heat roofing asphalt and apply within plus or minus 25 deg F (14 deg C) of equiviscous temperature unless otherwise required by roofing system manufacturer. Do not raise roofing asphalt temperature above equiviscous temperature range more than one hour before time of application. Do not exceed roofing asphalt manufacturer's recommended temperature limits during roofing asphalt heating. Do not heat roofing asphalt within 25 deg F (14 deg C) of flash point. Discard roofing asphalt maintained at a temperature exceeding finished blowing temperature for more than 4 hours.
- E. Substrate-Joint Penetrations: Prevent roofing asphalt from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

3.5 BASE-PLY FELT INSTALLATION

- A. Install base-ply felts according to roofing system manufacturer's written instructions, starting at low point of roofing system. End lap and shingle each base-ply felt to ensure number of base-ply felts covers the substrate at any point. Extend base-ply felts over and terminate beyond eaves. Embed each base-ply felt in continuous mopping of hot roofing asphalt, to form a uniform membrane without base-ply felts touching each other.
 - 1. Install 2 HPR Glass Ply base-ply felts.

3.6 ROOF MEMBRANE INSTALLATION

- A. Install modified bituminous roofing membrane according to roofing manufacturer's written instructions, starting at low point of roofing system. Extend roofing membrane sheets over and terminate beyond cants, installing as follows:
 - 1. Unroll roofing membrane sheets and allow them to relax for minimum time period required by manufacturer.
- B. Single-Ply, Modified Bituminous Membrane: Install a single ply of modified bituminous membrane starting at low point of roofing system.
 - 1. Application: Adhere to substrate in a solid mopping of hot roofing asphalt applied at rate 35 lbs/sqft. as required by roofing system manufacturer.
 - 2. The roll of SEBS membrane must push a puddle of asphalt in front of it with asphalt running out both sides of sheet.
- C. Laps: Accurately align roofing membrane sheets, without stretching, and maintain uniform side and end laps. Stagger end laps. Completely bond and seal laps, leaving no voids.
 - 1. Repair tears and voids in laps and lapped seams not completely sealed.
- D. Install modified bituminous membranes with side laps shingled with slope of roof deck where possible.
 - 1. Install modified bituminous membranes with side laps shingled in direction to shed water on each large area of roofing, where slope exceeds ½ inch per 12 inches (1:24).
- E. INSTALL TWO PLY BASE FELTS AND MODIFIED BITUMENT THE SAME DAY. NO PHASED APPLICATION WILL BE ACCEPTED ON THIS PROJECT.

3.7 FLASHING AND STRIPPING INSTALLATION

- A. Install base flashing over cant strips and other sloping and vertical surfaces, at roof edges, and at penetrations through roof, and secure to substrates according to roofing system manufacturer's written instructions and as follows:
 - 1. Prime substrates with asphalt primer if required by roofing system manufacturer.
 - 2. Backer Sheet Application: Install one of HPR Glass Ply backer and adhere to substrate in a uniform mopping of hot roofing asphalt.
 - 3. Flashing Sheet Application: Adhere modified bituminous membrane base flashing to substrate in a uniform mopping of hot roofing asphalt, applied to substrate and back of base flashing at rate required by roofing system manufacturer.
- B. Extend base flashing up walls or parapets a minimum of 8 inches (200 mm) above roofing membrane and 4 inches (100 mm) onto field of roofing membrane.
- C. Mechanically fasten top of base flashing securely at terminations and perimeter of roofing.
 - 1. Nail all vertical flashings 6 inches on center using simplex fasteners.

2. Strip in vertical seams with 6 inch fiberglass mesh and mastic three course.
 3. Strip in top of vertical base flashings with 3 inch fiberglass mesh and mastic three course.
- D. Install modified bituminous stripping where metal flanges and gravel stop edgings are set on membrane roofing, seal outside edges of all membrane stripping at gravel stops and metal flanges with elastomeric caulking according to roofing system manufacturer's written instructions.
- E. Roof Drains: Set 30-by-30-inch (760-by-760-mm) metal flashing in bed of asphalt roofing cement on completed roofing membrane. Prime both sides of metal. Cover metal flashing with stripping and extend a minimum of 4 inches (100 mm) beyond edge of metal flashing onto field of roofing membrane. Clamp roofing membrane, metal flashing, and stripping into roof-drain clamping ring. Install gravel guard and strip in.
1. Install flashing-sheet stripping by same method as installing base flashing.
 2. Install stripping of not less than two roofing membrane ply sheets, each set in a continuous coating of asphalt roofing cement or in a solid mopping of hot roofing asphalt.
 3. Set modified bitumen membrane in drain sump in hot asphalt. Trim back from clamping ring $\frac{1}{4}$ ".

3.8 COATING INSTALLATION

- A. Apply coatings according to manufacturer's written instructions, by spray, roller, or other suitable application method, to the following locations:
- Pyramic White Reflective Roof Coating: Coat entire roof surface and all vertical flashings. Application of reflective white roof coating will be uniform in 2 separate coats of 1.5 gal. per 100 sq. ft. each coat a minimum, 30 days after installed to mastic and mesh strip-in.

3.9 FIELD QUALITY CONTROL

- A. Before coating of roofing membrane, the entire roof is to be inspected by the roofing system manufacturer's technical personnel.
- B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.
1. Notify Owner 48 hours in advance of date and time of inspection.

3.10 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

- C. Clean overspray and spillage to adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075113

ADDENDUM 04

SECTION 075630 – FLUID APPLIED ROOFING RESTORATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Includes:

- 1. EPDM Single Ply Roof Restoration.
 - a. Surface preparation: Power wash to remove dirt and debris.
 - b. Parapets and Vertical Surfaces: Repair or replace flashing membrane as needed.
 - c. Metal Flashings: Repair/Replace metal flashings as indicated on drawings.
 - d. Roof Repairs: Repair blisters, stressed, deteriorated or cracked membrane.
 - e. Install base coating and fabric reinforcement on flashings and entire roof surface. Let cure, and top coat flashings and entire roof surface.
 - f. Provide full fabric reinforcement.
 - g. Manufacturer shall provide infrared scan and drawing of any areas of wet insulation prior to job start.
 - h. Install fluid applied walkway as indicated on the drawings.

B. Related Requirements:

- 1. Section 061053 "Miscellaneous Rough Carpentry" for wood blocking, curbs, cants, and nailers.
- 2. Section 076200 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
- 3. Section 079200 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.3 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Roofing Conference: Conduct conference at Project site.

1. Meet with Owner, Architect, Roofing Installer, roofing system manufacturer's representative, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

B. Manufacturers Inspections:

1. The Roofing Systems Manufacturer shall provide daily jobsite inspections with weekly written reports with photographs of work in progress.
2. Confirm, whenever called upon by the Architect or Owner that no application procedures were in conflict with the published specifications other than those that may have been previously reported and corrected.
3. Inspections: performed only by a full time employee of the Roofing System Manufacturer. The Representative: has been in the employ of Manufacturer a minimum of 5 years and live within 100-mile radius of the jobsite.
4. The Roofing System Manufacturer provide inspections of the roofing system, whenever called upon by the Architect or Owner, for the duration of the delivered warranty period

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include data substantiating that materials comply with requirements.

1. Descriptive product data sheets and MSD sheets.
2. Sample copy of specified Manufacturer's warranty.

B. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system and is eligible to receive the standard roofing manufacturer's warranty.

C. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

1. Submit evidence of meeting performance requirements.

- D. Qualification Data: For firms and persons specified in the “Quality Assurance” Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Owners and Architects, and other information specified.
- E. Warranties: Sample copy of standard roofing manufacturer’s warranty stating obligations, remedies, limitations, and exclusions of warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.
- B. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

1.7 QUALITY ASSURANCE

- A. Field Quality Control

- 1. Notify Architect and Owner 48 hours in advance of the date and time of Final inspection.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.
- E. Storage temperatures should be between 60°F to 80°F (15.6° to 26.7°C) and not exceed 110°F(43.3°C). Indoor ventilated storage is recommended Ensure jobsite storage is in a shaded and ventilated area. Do not store in direct sunlight. Keep materials away from open flame or welding sparks

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- B. When applying materials with spray equipment, take precautions to prevent over spray and/or solvents from damaging or defacing surrounding walls, building surfaces, vehicles or other property. Care should be taken to do the following:
 - 1. Close air intakes into the building.
 - 2. Have a dry chemical fire extinguisher available at the jobsite.
 - 3. Post and enforce "No Smoking" signs.
- C. Avoid inhaling spray mist; take precautions to ensure adequate ventilation.
- D. Protect completed roof sections from foot traffic for a period of at least 48 hours at 75 degrees F (24 degrees C) and 50 percent relative humidity or until fully cured.
- E. Take precautions to ensure that materials do not freeze.
- F. Minimum temperature for application is 50 degrees F (10 degrees C) and rising

1.10 WARRANTY

- A. Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. The manufacturer shall provide to the Owner, at the Manufacturer's expense, with the labor and material necessary to return the defective area to a watertight condition.
 - 1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. When a particular trade name or performance standard is specified it shall be indicative of a standard required. Acceptable manufacturers:
 - 1. Liquitex, manufactured by Garland Co.
 - 2. Alphaguard Bio, manufactured by Tremco Inc.
- B. Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed Reinforced, Fluid Applied Membrane shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.

1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

2.3 FLUID APPLIED MEMBRANE MATERIALS -GARLAND

- A. Top Coat: LiquiTec: Multi-purpose, 100% solids, two-part, fast-cure, polyurea liquid waterproofing membrane having the following characteristics:
1. Elongation, ASTM D 412: 433%
 2. Tensile Strength, ASTM D 412: 2300 psi
 3. Tear Resistance, ASTM D 624: 449 lbs./in
 4. Low Temperature Flexibility, ASTM D522: -60°F (-51.1°C)
 5. Hardness, ASTM D2240 (Shore A): 80
 6. Dynamic Impact Resistance (Fully Reinforced System): ASTM D5635, 37 joules
 7. Static Puncture Resistance (Fully Reinforced System): ASTM D5602, 20 kg
 8. Tensile-Tear Resistance (Fully Reinforced System): ASTM D4073, 274 lbf
 9. Tensile Load Strain (Fully Reinforced System): ASTM D4073, 150 lbf/in.
 10. Toughness: 193 ft.-lbf/ft²
 11. Dry Film Thickness (Fully Reinforced System), 88 mils
 12. Lap Shear Strength (MB Seam with coating): ASTM D7379, 231 lbf/in.
 13. Density @ 77° F (25° C, ASTM D 2939) 9.6 lb./gal (1.2 g/m³)
 13. Flash Point: ASTM D 93, 110°F min. (43°C)
 14. VOC: 0 g/l
 15. Microbial Resistance: ASTM G21, No Microbial Growth
 16. Initial Reflectance: 0.84
 17. Initial Emittance: 0.88
 18. Initial SRI: 105
- B. Base Coat: LiquiTec Base: Multi-purpose, 100% solids, two-part, fast-cure, polyurea liquid waterproofing membrane having the following characteristics:
1. Elongation, ASTM D 412: 433%
 2. Tensile Strength, ASTM D 412: 2300 psi
 3. Tear Resistance, ASTM D 624: 449 lbs./in
 4. Low Temperature Flexibility, ASTM D522: -60°F (-51.1°C)
 5. Hardness, ASTM D2240 (Shore A): 80
 6. Dynamic Impact Resistance (Fully Reinforced System): ASTM D5635, 37 joules
 7. Static Puncture Resistance (Fully Reinforced System): ASTM D5602, 20 kg
 8. Tensile-Tear Resistance (Fully Reinforced System): ASTM D4073, 274 lbf
 9. Tensile Load Strain (Fully Reinforced System): ASTM D4073, 150 lbf/in.
 10. Toughness: 193 ft.-lbf/ft²
 11. Dry Film Thickness (Fully Reinforced System), 88 mils
 12. Lap Shear Strength (MB Seam with coating): ASTM D7379, 231 lbf/in.
 13. Density @ 77° F (25° C, ASTM D 2939) 9.6 lb./gal (1.2 g/m³)
 13. Flash Point: ASTM D 93, 110°F min. (43°C)
 - VOC: 0 g/l

14. Microbial Resistance: ASTM G21, No Microbial Growth

C. Reinforcement: Grip Polyester Soft, strong, elastic, polyester reinforcing fabric.

2.4 FLUID APPLIED MEMBRANE MATERIALS - TREMCO

Polyurethane Elastomeric Fluid-Applied System: An elastomeric, two-part, bio-based, polyurethane fluid-applied roofing formulated for application to existing single ply roofing, with the following minimum physical properties:

A. Tremco Aliphatic Urethane Base Coat:

1. Volatile Organic Compounds (VOC), ASTM D 3960: Not greater than 1 g/L (A+B mix).
2. Tensile Strength: 1,400 lb / sq. in., ASTM D 412.
3. Water Vapor Transmission: 0.19 perms, ASTM E96.
4. Low Temperature Flexibility: Pass at -25 deg F, ASTM D522.
5. Tear Strength: 309 lbf, ASTM D 5147.
6. Water Absorption: 0.008, ASTM D 471.
7. Indentation Hardness: 88 Shore A, ASTM D 2240.
8. Dimensional Stability: less than 0.1 %, ASTM D 5147.
9. Volume Solids: 100%, ASTM D 2697.
10. Weight Solids: 100%, ASTM D 1644.
11. Viscosity: 2,500 – 5,500 cp, ASTM D 2196.

B. Tremco Aliphatic Urethane Top Coat:

1. Volatile Organic Compounds (VOC), ASTM D 3960: Not greater than 6 g/L (A+Bmix).
2. Tensile Strength: 1,400 lb / sq. in., ASTM D 412.
3. Water Vapor Transmission: 0.19 perms, ASTM E96.
4. Low Temperature Flexibility: Pass at -25 deg F, ASTM D522.
5. Tear Strength: 309 lbf, ASTM D 5147.
6. Water Absorption: 0.008, ASTM D 471.
7. Indentation Hardness: 81 Shore A, ASTM D 2240.
8. Dimensional Stability: less than 0.1 %, ASTM D 5147.
9. Reflectivity: 84%, ASTM C 1549.
10. Emissivity: 87%, ASTM C 1371.
11. SRI: 105, ASTM E 1980.
12. Volume Solids: 100%, ASTM D 2697.
13. Weight Solids: 100%, ASTM D 1644.
14. Viscosity: 2,500 – 5,500 cp, ASTM D 2196.

C. Tremco, Permafab Polyester Reinforcement: 100% stitchbonded, mildew and rot resistant, polyester fabric for fluid-applied membrane and flashing.

2.5 AUXILIARY ROOFING MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.

B. Primer: As recommended by manufacturers for various surface types.

C. Miscellaneous Accessories: Provide those recommended by roofing system manufacturer.

2.6 ROOF INSULATION (FOR WET AREA REPLACEMENT) – Match existing height

- A. General: Preformed roof insulation boards manufactured or approved by roofing manufacturer, selected from manufacturer's standard sizes suitable for application, of thicknesses indicated in drawings.
- B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.
- C. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches unless otherwise indicated.
- D. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated. Provide tapered insulation and half inch per foot saddles as indicated on drawings.

2.7 INSULATION ACCESSORIES

- A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with roofing.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
- C. Cover Board: six sided coated fiber board 1/2 inch thick.
- D. Gypsum Board: 1/2" Dens Deck Prime high Density Gypsum board 4'x4'.
- E. Low Rise Foam Insulation Adhesive

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood cants, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements.
 - 4. Verify that deck is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch out of plane relative to adjoining deck.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Power wash the entire roof surface to remove all dirt, algae, paint, oil, talc, rust or foreign substance. Use a 10 percent solution of TSP (tri-sodium phosphate), Simple Green and warm water. Scrub heavily soiled areas with a brush. Rinse with fresh water to remove all TSP solution. Allow roof to dry thoroughly before continuing.
- B. Clean substrate daily of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- C. General: All necessary field and flashing repairs must be done according to good construction practices, including the removal of all wet insulation and defective materials as identified through a moisture detection survey such as an infrared scan and replacement with like-materials.
 - 1. If wet, Remove existing roof flashings from curbs and parapet walls down to the surface of the roof. If wet, Remove existing flashings at roof drains and roof penetrations.
 - 2. Remove all wet, deteriorated, blistered or delaminated roofing membrane or insulation and fill in any low spots occurring as a result of removal work to create a smooth, even surface for application of new roof membranes. Match existing roof insulation and membrane. Use only solvent-free adhesives.
 - 3. Install new wood nailers as necessary to accommodate insulation/recovery board or new nailing patterns.
 - 4. When mechanically attached, the fastening pattern for the insulation/recovery board shall be as recommended by the specific product manufacturer.
 - 5. Newly installed roof surfaces shall be primed as necessary and allowed to dry prior to installing the fluid-applied roofing system.
- D. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.1 INSTALLATION, GENERAL

- A. General Installation Requirements:
 - 1. Install in accordance with manufacturer's instructions. Apply to minimum coating thickness required by the manufacturer.
 - 2. Protect work from spillage of roofing materials and prevent materials from entering or clogging drains and conductors. Replace or restore work damaged by installation of the roofing system.
 - 3. All primers must be top coated within 24 hours of application. Re-prime if more time passes after priming.
 - 4. Keep roofing materials dry during application.
 - 5. Coordinate counter flashing, cap flashings, expansion joints and similar work with work specified in other Sections under Related Work.
 - 6. Coordinate roof accessories and miscellaneous sheet metal accessory items, including piping vents and other devices with work specified in other Sections under Related Work.

3.2 FLUID-APPLIED MEMBRANE APPLICATION - GARLAND

1. Application of LiquiTec Base or LiquiTec and Reinforcement:
 - a. Apply a bead of Polyether sealant into all MB side and end laps to reduce the height of the overlap helping to eliminate voids and tenting under fabric reinforcement
 - b. On field surfaces run fabric reinforcement parallel to the low edge using a shingling method up the slope with minimum 3 inch fabric laps.
 - c. After positioning reinforcement to roll out, apply LiquiTec Base or LiquiTec about 40 inches wide to surface where reinforcement ply is to be applied at a rate of 3.5 gallons per 100 SF over modified bitumen.
 - d. Use a notched squeegee to spread coating and roller apply with $\frac{3}{4}$ " nap roller to obtain uniform coverage.
 - e. Do not apply coating too far ahead of fabric so coating does not dry before fabric can be embedded.
 - f. Immediately roll reinforcement into wet coating.
 - g. Ensure roller is fully saturated with coating and backroll over the reinforcement surface to fully saturate.
 - h. Use care to lay the fabric tight to the roof surface without air pockets, wrinkles, fishmouths, etc.
 - i. Lap adjacent rolls of reinforcement 3 inches and end laps 6 inches.
 - j. Allow to dry, but no more than 72 hours before applying top coat.
2. Application of Top Coat
 - a. Apply top coat of LiquiTec Base or LiquiTec at 2.0 gallon per 100 SF to clean and dry reinforced base coat application.
3. Liquid Flashings:
 - a. All flashings are coated in the same manner as the field prior to field application.
 - b. Vertical liquid flashings shall run a minimum of 4" onto the horizontal surface
4. Application of Non-Skid Surface for Walkways if Indicated on Drawings
 - a. Apply LiquiTec or LiquiTec Base at a minimum of 1.0 gal./100 sq. ft. (0.41l/m²) to dry top coat within 72 hours of its application.
 - b. Broadcast dry roofing granules or 20-40 mesh silica sand into wet coating and immediately back-roll to set.

3.3 FLUID-APPLIED MEMBRANE APPLICATION - TREMCO

- A. Base Coat: Apply coating base coat to substrate surfaces in accordance with manufacturer's written instructions. Back roll to achieve minimum wet mil coating thickness as recommended by manufacturer; verify thickness of base coat as work progresses.
 1. Mix components together as per manufacturer's instructions.
 2. Apply base coat on prepared and primed surfaces and spread coating evenly.
 - a. Application Rate: 3 gal./Sq. (48 wet mils) minimum.
 3. Embed polyester mat reinforcement into wet base coat. Lap adjacent flashing pieces of polyester mat minimum 3 inches along edges and 6 inches at end laps. Full reinforcement.

4. Roll surface of polyester reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric, free of pin holes, voids, or openings.
 5. Allow base coat to cure prior to application of top coat.
- B. Fluid-Applied Flashing Application: Complete base coat and polyester reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane.
1. Extend coating minimum of 8 inches up vertical surfaces and 4 inches onto horizontal surfaces.
 2. Roof Drains: Install base coat onto surrounding membrane surface and metal drain bowl flange. Install target piece of polyester reinforcement immediately into wet base coat and roll to fully embed and saturate fabric. Reinstall clamping ring and strainer following application of top coat. Replace broken drain ring clamping bolts.
- C. Top Coat: Apply top coat uniformly in a complete installation to flashings and field of roof.
1. Mix components together as per manufacturers instructions
 2. Prime base coat prior to application of top coat if top coat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.
 3. Apply top coat to flashings extending coating up vertical surfaces and out onto horizontal surfaces 4 inches. Install top coat over field base coat and spread coating evenly.
 4. Back roll to achieve wet mil thickness as recommended by manufacturer.
 - a. Application Rate: 2 gal./Sq. (32 wet mils) minimum.
 5. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours
- D. Walkway Installation, If Indicated on Drawings:
1. Apply additional application of top coat to taped walkway area at 1.25 gals per square or 20 mils.
 2. Broadcast approximately 20-30 lbs. per 100 sq. ft. of mesh silica sand or quartz to wet top coat.
 3. Immediately back-roll sand and top coat material. Remove tape outlining walkway area immediately

3.4 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075630

ADDENDUM 04

SECTION 096519 - RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Solid vinyl floor tile (LVT)
2. Vinyl Composition Tile (VCT)

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For each type of floor tile. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
- C. Samples: Full-size units of each color and pattern of floor tile required.
- D. Maintenance data.

1.3 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
 1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.4 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive floor tile.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.
- C. Substrate Conditions: Use the current test methods described below to determine the dryness as required to ensure initial and long-term success:
 1. Comply with ASTM F2170 testing procedures.
 2. Comply with ASTM F1869 testing procedures (see #4 below).

3. The owner's testing agent shall conduct in-site relative humidity testing (ASTM F2170) or anhydrous calcium chloride testing (ASTM F1869), whichever is recommended by resilient flooring manufacturer. Perform minimum of 3 tests for the first 1000 square feet and at least one test for each additional 1000 square feet, to ensure concrete internal relative humidity does not exceed 85% or moisture vapor emissions do not exceed 10.0 lb per square feet within a 24 hour period, depending on resilient flooring manufacturer's recommendations.
 4. **Only use the ASTM F 1869, anhydrous calcium chloride test of vapor emission if recommended by the flooring manufacturer, otherwise, ASTM F 2170 should be used.**
 5. Contingency for high moisture readings: if at the time of testing the moisture readings are in excess of 85% internal relative humidity or 10.0 lb moisture vapor emissions, the Architect will direct the owner's testing service to initiate a petrographic analysis to determine the water/cement ratio and if sufficient hydration has taken place. If the specifications were not followed in their entirety, water/cement ratio (as specified), and/or the concrete surface has been inadequately hydrated, the Contractor responsible for the placement of the cement shall be responsible for the costs associated with the petrographic analysis and subsequent remediation requirements.
- D. The flooring contractor shall verify in writing to the Owner, a minimum of thirty (30) days prior to scheduled resilient flooring installation, the following substrate conditions:
1. Moisture: Maximum of 85% internal relative humidity tested in accordance with the current ASTM F2170 or maximum of 10.0 lb moisture vapor emission rate tested in accordance with the current ASTM F1869.
 2. Alkalinity (ASTM F710): Minimum 7.0 pH and Maximum 10.0 pH.
 3. Suitability of Substrate Surface: Ensure that substrate surface is sound, smooth and flat to 1/8 inch in 10 feet. It is the Flooring Contractor's responsibility to meet this 1/8" in 10 feet requirement.
 4. Letter of Certification from adhesive manufacturer and moisture remediation sealer manufacturer that both products are compatible with one another.
- E. Environmental Requirements/Conditions: In accordance with manufacturer's recommendations. Areas to receive flooring shall be clean, fully enclosed, weather tight with stable environmental conditions between 65 degrees F – 81 degrees F, and 50% ($\pm$ 10%) relative humidity for 48 hours before during and continuously after installation.
- F. Close spaces to traffic during floor tile installation.
- G. Close spaces to traffic for 48 hours after floor tile installation.
- H. Install floor tile after other finishing operations, including painting, have been completed.

1.5 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Floor Tile: Furnish 1 box for every 50 boxes or fraction thereof, of each type, color, and pattern of floor tile installed.

PART 2 - PRODUCTS

2.1 SOLID VINYL FLOOR TILE

- A. Manufacturers: Subject to compliance with requirements, provide products matching the adjacent flooring by one of the following manufacturers:
 - 1. Mannington Mills
 - 2. Johnsonite
 - 3. Armstrong
 - 4. Tarkett
- B. Tile Standard: ASTM F 1700, Class 3, Printed Film Vinyl Tile.
- C. Wearing Surface: to match adjacent
- D. Thickness: to match adjacent
- E. Size: to match adjacent
- F. Colors and Patterns: As selected by Architect from full range of industry colors.
- G. Patterns: Confirm in shop drawings.

2.2 VINYL COMPOSITION FLOOR TILE

- A. Manufacturers: Subject to compliance with requirements, provide products matching the adjacent flooring by one of the following manufacturers:
 - 1. Mannington Mills
 - 2. Johnsonite
 - 3. Armstrong
 - 4. Tarkett
- B. Tile Standard: ASTM F 1066, Class 2, through-pattern tile.
- C. Wearing Surface: to match adjacent
- D. Thickness: to match adjacent
- E. Size: to match adjacent
- F. Colors and Patterns: As selected by Architect from full range of industry colors.
- G. Patterns: Confirm in shop drawings.

2.3 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.

- B. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.
 - 1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - 1. LVT adhesives: Not more than 50 g/L.
 - 2. VCT adhesives: Manufacturer recommend products.
- C. Floor Polish: Provide protective liquid floor polish products as recommended by manufacturer.
- D. Metal Edge Strips: Install at all floor transitions from LVT/rubber to other material. Schluter Systems Approved by Architect. Extruded aluminum with mill finish of width shown, of height required to protect exposed edges of tiles, and in maximum available lengths to minimize running joints.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Flooring contractor is responsible for all surface preparation necessary at new and existing concrete slabs for installation of resilient flooring meeting warranty requirements, this includes but is not limited to crack repair, control joint repair, hole filling, leveling. No additional costs will be considered for floor prep.
- B. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- C. Concrete Substrates: Prepare according to ASTM F 710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
 - 4. Moisture Testing: Perform tests recommended by floor covering manufacturer and as follows. Proceed with installation only after substrates pass testing.
 - 1. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
 - 2. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
- D. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- E. Do not install floor tiles until they are same temperature as space where they are to be installed.

1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
- F. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

3.2 FLOOR TILE INSTALLATION

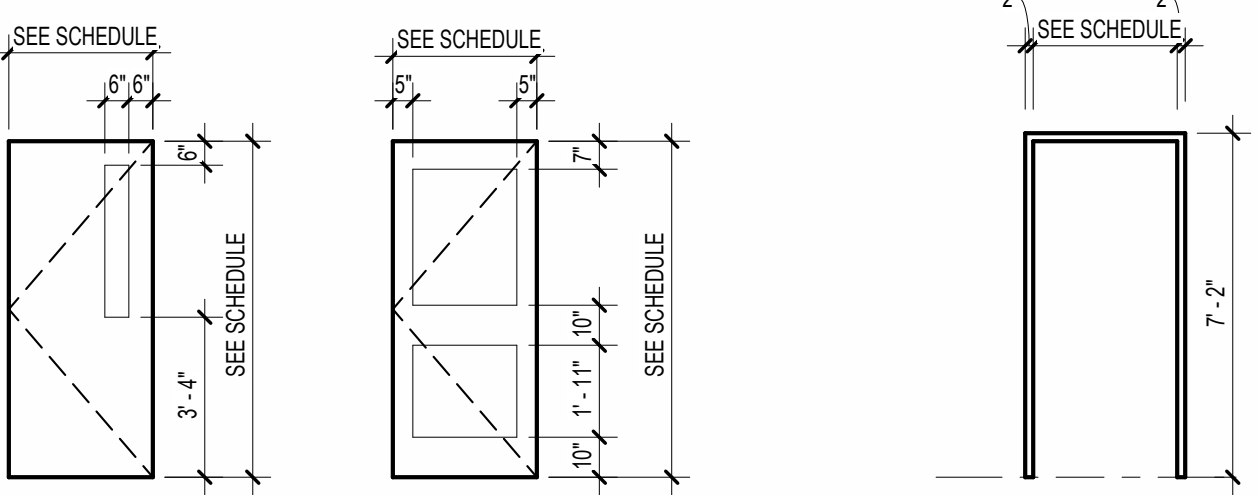
- A. Comply with manufacturer's written instructions for installing floor tile.
- B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
 1. Lay tiles in pattern indicated.
 2. VCT: Roll floor using 100 lb. roller in both directions within 1 hour of installation.
- C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
 1. Lay tiles in pattern of colors and sizes indicated.
- D. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
- E. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.
- G. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

3.3 CLEANING AND PROTECTION

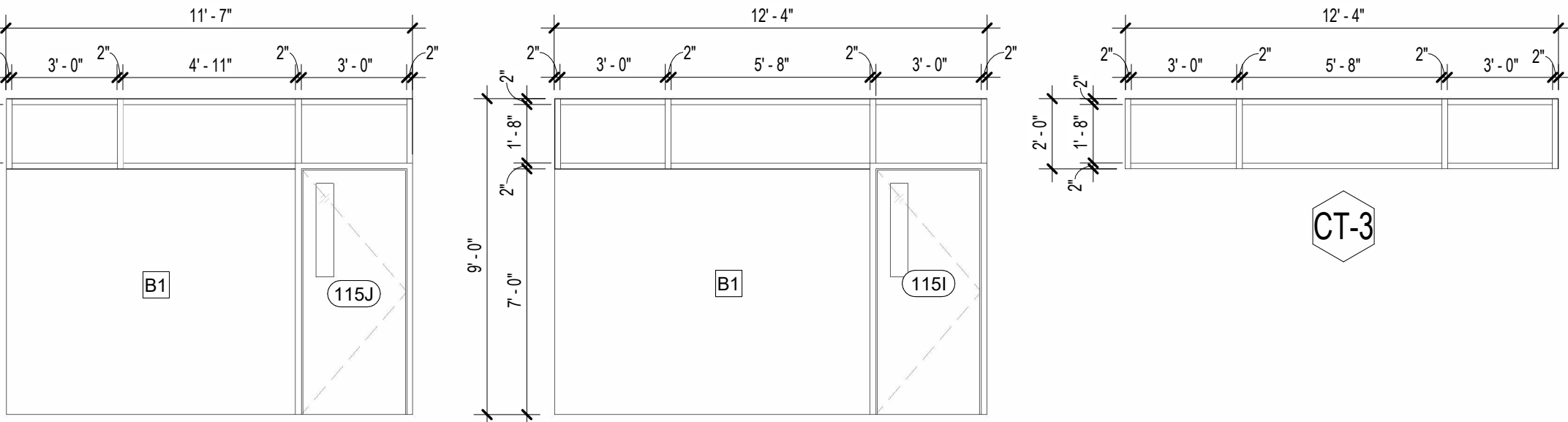
- A. Comply with manufacturer's written instructions for cleaning and protection of floor tile.
- B. Cover floor tile until Substantial Completion.
- C. VCT Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish.
 1. Apply two coats

END OF SECTION 096519

DOOR SCHEDULE												
DOOR NO.	W	H	DOOR		MAT	FIN	FRAME		FIRE RATING LABEL	HARDWARE SET	REMARKS	
			T	TYPE			TYPE	MAT				
115G	2'-0"	7'-0"	1 3/4"	D1	WD	ST	SEE ELEV	HM	PT			
115H	3'-0"	7'-0"	1 3/4"	D1	WD	ST	SEE ELEV	HM	PT			
115J	3'-0"	7'-0"	1 3/4"	D1	WD	ST	SEE ELEV	HM	PT			
115K	3'-0"	7'-0"	1 3/4"	D1	WD	ST	SEE ELEV	HM	PT			
A2-0	6'-0"	7'-11"	1 3/4"	FG	AL	ANOD	SEE ELEV	AL	ANOD			



DOOR TYPE LEGEND
1/4" = 1'-0"

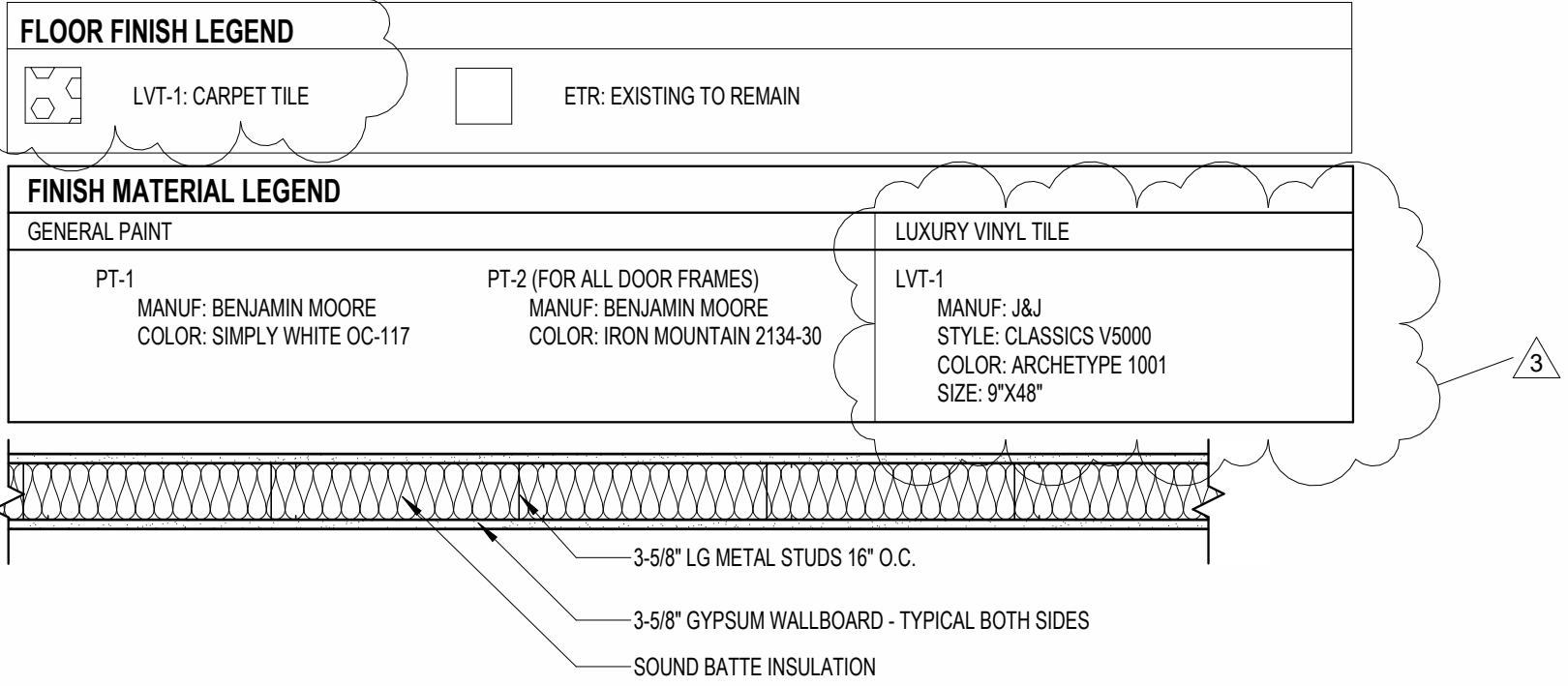


CT-1

CT-2

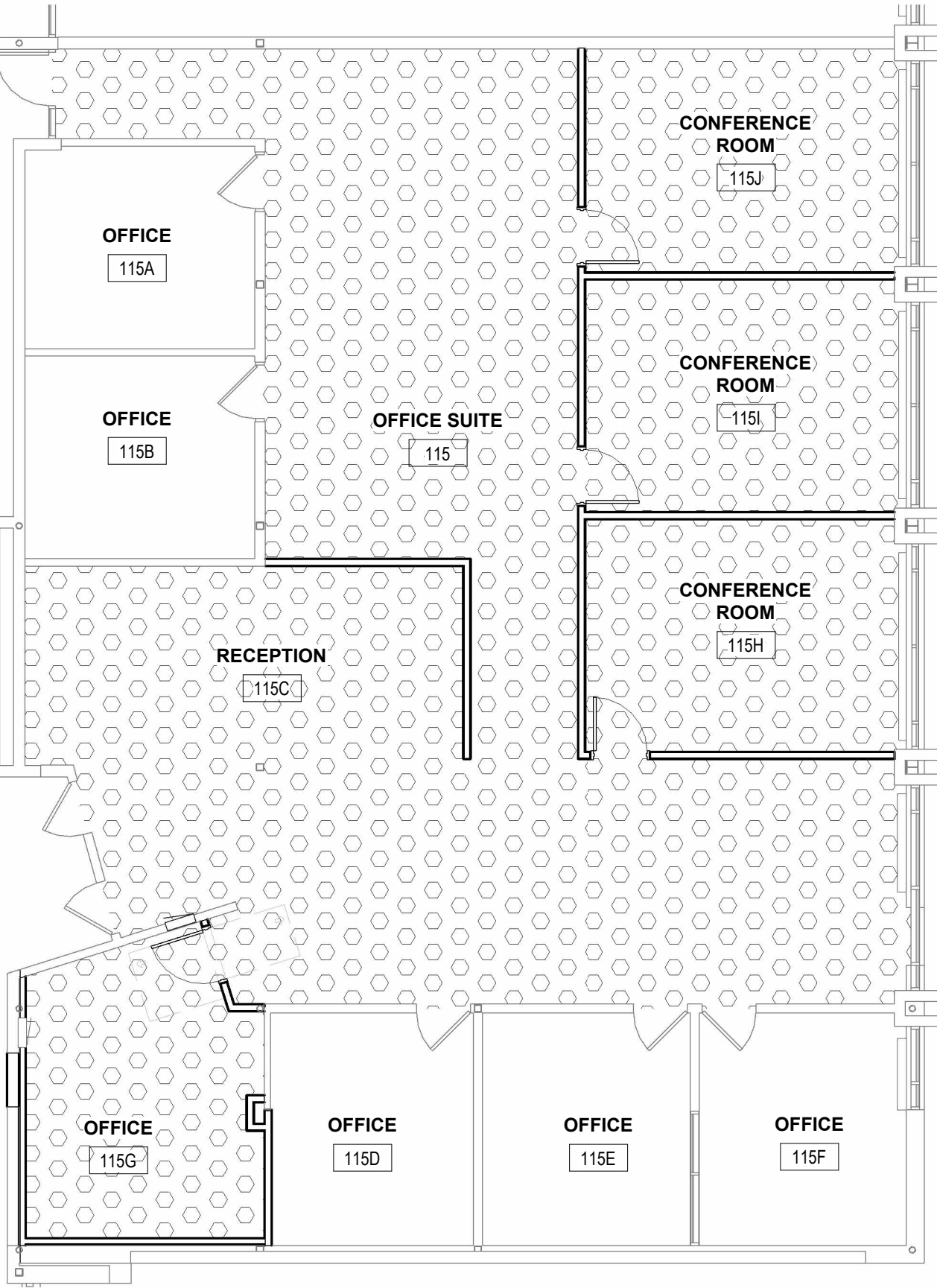
CC_ROOM FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR	BASE	NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING		REMARKS
				MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	
*1ST FLR AREA (A-1-D,H)														
115	OFFICE SUITE	LVT-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
115C	RECEPTION	LVT-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
115G	OFFICE	LVT-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
115H	CONFERENCE ROOM	LVT-1	RB	GYP	PT-1	GYP	PT-1	GLZ	ETR	GYP	PT-1	GYP	PT-1	
115I	CONFERENCE ROOM	LVT-1	RB	GYP	PT-1	GYP	PT-1	GLZ	ETR	GYP	PT-1	GYP	PT-1	
115J	CONFERENCE ROOM	LVT-1	RB	GYP	PT-1	GYP	PT-1	GLZ	ETR	GYP	PT-1	GYP	PT-1	

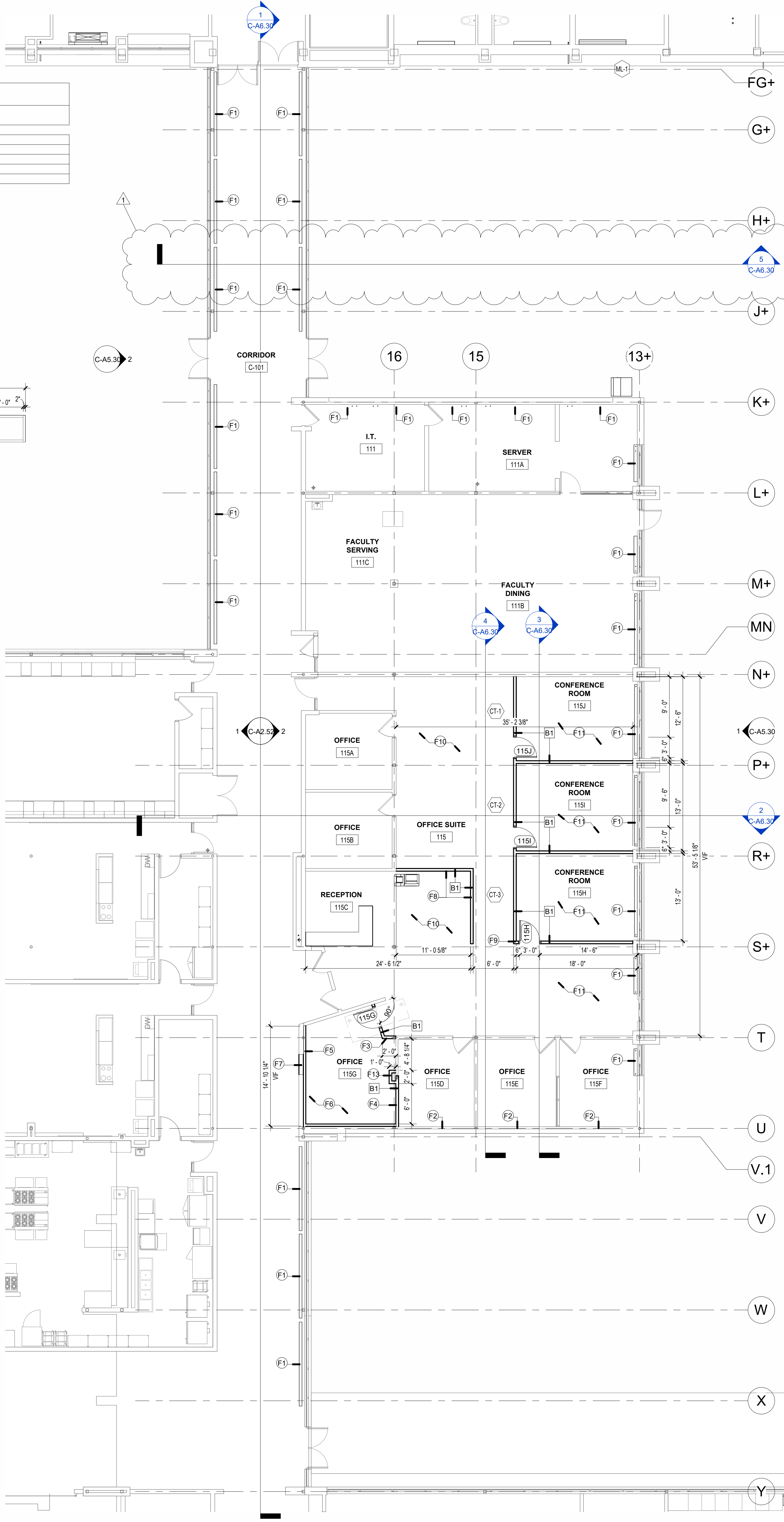


WALL TYPE B - INTERIOR WALL - LIGHT GAUGE STUD WALL

DETAIL	CMU THICKNESS	STUD SIZE	STUD SPACING	NOMINAL WALL THICKNESS	MAX. HEIGHT	FIRE RATING	FIRE TEST NO.
B1	-	3-5/8"	16" O.C.	4-7/8"	TO DECK	-	-



2 AREA C - OFFICE SUITE - FLOOR FINISH PLAN
1/8" = 1'-0"

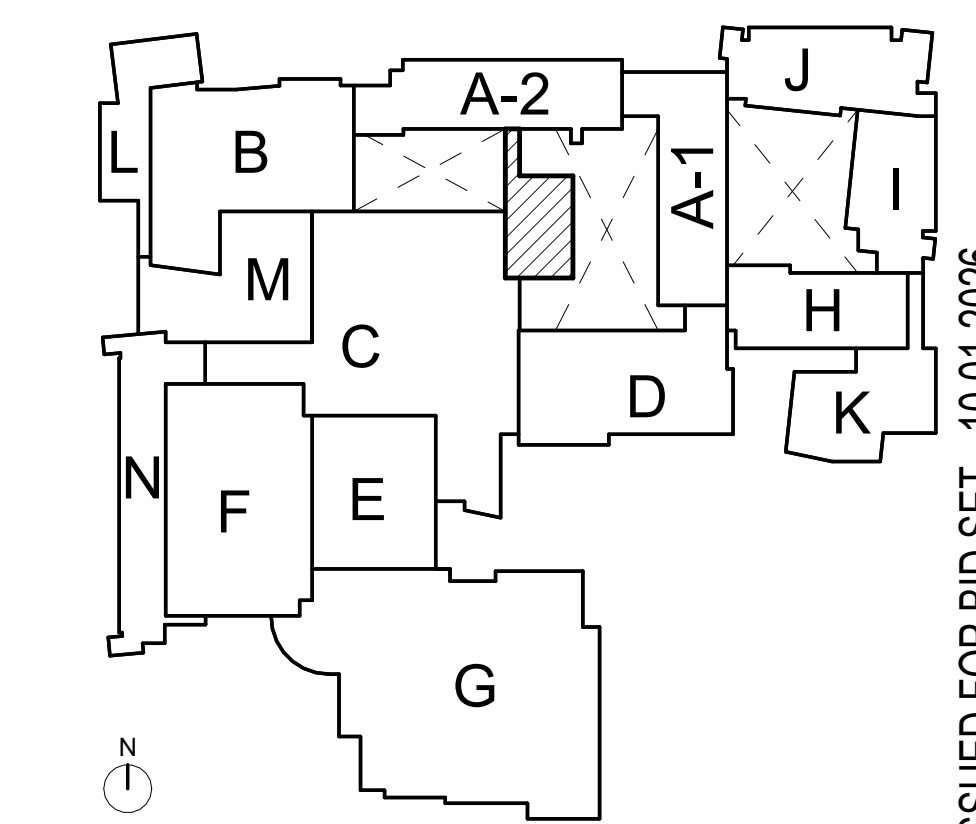


ROOM FINISH LEGEND & NOTES	
GENERAL NOTES	
1. ALL NEW MECHANICAL DUCTWORK AND PIPING TO BE PAINTED TO MATCH EXISTING.	
2. REFER TO WALL PAINT FINISH PLANS AND PAINT SCHEDULES FOR PAINT COLORS.	
3. SPRAY ACOUSTIC MATERIAL AT ROOF STRUCTURE IS NATO TO BE FIELD PAINTED. IT IS TO RECEIVE A CUSTOM COLOR TO MATCH THE EXPOSED STRUCTURE WHICH IS TO BE PAINTED IN THE FIELD.	
NOTES	
1. EXPOSED EXISTING STRUCTURE AND ANY NEW UNSTRUCT TO BE PAINTED. DO NOT PAINT INSULATION.	
2. GYPSUM BOARD SOFFITS ARE TO BE PAINTED PT-X. ALL OTHER GYPSUM BOARD CEILINGS ARE TO BE PAINTED PT-X.	
3. XXX	
4. XXX	
5. XXX	
6. XXX	
LEGEND	
ACT	ACOUSTICAL CEILING TILE
AL	PREFINISHED ALUMINUM
B-CMU	BURNISHED CONCRETE MASONRY UNIT
CFB	CEMENTITIOUS BACKER BOARD
CMU	CONCRETE MASONRY UNIT
CONC-S	SEALED CONCRETE
CPT	CARPET TILE
ETR	EXISTING TO REMAIN
EXP	EXPOSED STRUCTURE
GL	GLAZING
LIN	LINOLEUM SHEET FLOOR
LVT	VINYL TILE / PLANK FLOOR
PCT	PORCELAIN CERAMIC TILE
PT	PAINT
PT-VB	PAINT VAPOR BARRIER
RB	RUBBER BASE
RF	RUBBER FLOOR
ST	STAIN FINISH

- GENERAL NOTES**
- REFER TO DRAWING G1.00 FOR FULL GENERAL DEMOLITION NOTES.
 - REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR FULL MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION SCOPE OF WORK.
 - IN AREAS WHERE EXISTING WALLS, PARTITIONS, ETC. ARE TO BE REMOVED, IT SHALL BE NECESSARY TO REPAIR EXISTING CEILINGS, ADJUST AND RELOCATE OR REWIRE LIGHTING FIXTURES, AND REMOVE OR RELOCATE ELECTRICAL AND MECHANICAL COMPONENTS AS REQUIRED OR DIRECTED. DEMOLITION AREAS SHOWN ON PLAN ARE REPRESENTATIONAL ONLY AND SHOULD NOT BE CONSIDERED ALL ENCOMPASSING. CONTRACTOR WILL BE RESPONSIBLE FOR ALL REMOVAL AND REPLACEMENT OF ADJACENT CONSTRUCTION NECESSARY TO COMPLETE THE WORK.
 - WASH AND CLEAN ALL EXISTING INTERIOR HVAC GRILLES AND DIFFUSERS WHICH ARE TO REMAIN (CEILING AND WALL MOUNTED, AND FREESTANDING AT EXPOSED CONSTRUCTION).
 - EXISTING WALLS, FLOORS, AND CEILINGS WHICH ARE DAMAGED AND ARE TO REMAIN SHALL BE PATCHED AND REBUILT AS REQUIRED TO MATCH SURROUNDING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
 - ACTIVE PIPES, CONDUITS, AND OTHER UTILITIES OF ALL TYPES, WHETHER SHOWN IN THE CONSTRUCTION DOCUMENTS OR NOT, MUST BE PROTECTED AT ALL TIMES DURING THE CONSTRUCTION OF THE WORK. EXTREME CARE SHALL BE EXERCISED AT ALL TIMES NOT TO DAMAGE ANY SUCH PIPES AND CONDUITS. WHERE DAMAGE OCCURS, CONTRACTOR CAUSING THE DAMAGE SHALL REPAIR SUCH DAMAGE IN A MANNER APPROVED BY THE ARCHITECT AND OWNER, AND AT NO CHANGE IN THE CONTRACT PRICES OF CONTRACTOR.
 - IN AREAS WHERE EXISTING DOORS, WINDOWS, ETC. ARE REQUIRED TO BE REMOVED TO DISPOSE OF EXISTING MECHANICAL SYSTEM, CONTRACTORS MUST REINSTALL, REPAIR, OR REBUILD CONDITION TO MATCH SURROUNDING CONSTRUCTION OR BETTER, AT NO ADDITIONAL COST TO THE OWNER.
 - ALL SUPPLY AND RETURN DIFFUSERS NOT ORIGINAL TO BUILDING AND ARE BEING ABANDONED SHALL BE REMOVED.
 - ALL CORING REQUIRED FOR NEW WORK IS TO BE INCLUDED IN THE BASE BID. ALL PENETRATIONS TO BE COORDINATED WITH ADJACENT STRUCTURE. REFER TO ROOM FINISH SCHEDULE FOR EXISTING WALL/FLOOR/CEILING MATERIALS. NO EXTRAS WILL BE CONSIDERED FOR MULTIPLE PASSES REQUIRED TO CORE THROUGH MULTIPLE MATERIALS. CLEANING OF ALL DEBRIS AND WET DRILL RUNOFF WILL BE REQUIRED TO RESTORE ADJACENT CONSTRUCTION TO ITS FORMER CONDITION.
 - PROTECT ALL FLOORS THROUGHOUT THE PROJECT PER THE GENERAL NOTES ON G1.00. ANY DAMAGE TO EXISTING FLOORS MUST BE REPLACED, IN KIND, AT THE EXPENSE OF THE CONTRACTOR CAUSING THE DAMAGE.
 - ALL PENETRATIONS THROUGH WALLS, FLOORS, CEILINGS ARE TO BE FIRE CALKED. ALL FIRESTOPPING/CALKING IS TO BE COMPLETED PRIOR TO THE INSTALLATION OF NEW CEILINGS.

- FLOOR PLAN KEYNOTES - AREA C**
- PROVIDE AND INSTALL NEW RADIANT PANEL PATCH AND REPAIR ANY GAPS OR OPENINGS LEFT FROM PREVIOUS UNIT TO MATCH SURROUNDING CONDITIONS. SEE INTERIOR ELEVATIONS AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
 - PATCH AND REPAIR WALLS WHERE FIN TUBES WERE REMOVED TO MATCH SURROUNDING CONDITIONS AND FINISHES.
 - INSTALL NEW WALLS AND SINGLE DOOR INTO THE NEW OFFICE. ROOM IS TO BE RENOVATED FROM A MECHANICAL ROOM INTO A NEW OFFICE. NEW WALLS ARE TO EXTEND TO DECK ABOVE. SEE ROPS, FLOOR FINISH PLANS, DOOR SCHEDULE, AND WALL TYPES FOR MORE INFORMATION.
 - INSTALL NEW WALL TO SEPARATE EXISTING OFFICE FROM NEW OFFICE AS PART OF MECHANICAL ROOM TO NEW OFFICE RENOVATION. NEW WALL IS TO EXTEND TO DECK ABOVE. WALL FINISH TO MATCH EXISTING OFFICES.
 - INSTALL NEW FURRING WALL. WRAP WALL TO THE EXTENTS SHOWN. SEE WALL TYPES FOR MORE INFORMATION.
 - INSTALL NEW FLOORING AND NEW CEILING SYSTEM FOR THE MECHANICAL ROOM TO NEW OFFICE RENOVATION. REFER TO FLOOR FINISH PLANS, ROPS, MECHANICAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - PATCH, IN-FILL, AN REPAIR WALL OPENING LEFT FROM DOOR AND DOOR FRAME REMOVAL. PATCH AREA TO MATCH SURROUNDING CONDITIONS AND FINISHES.
 - INSTALL NEW WALLS TO SEPARATE NEW RECEPTION AREA FROM OFFICE SUITE AREA. NEW WALLS ARE TO EXTEND TO THE DECK ABOVE.
 - INSTALL NEW WALLS, SINGLE DOORS, AND TRANSOM WINDOWS TO ENCLOSE NEW CONFERENCE ROOMS. WALLS ARE TO EXTEND TO THE DECK ABOVE. SEE SECTIONS FOR MORE INFORMATION.
 - INSTALL NEW 2X2 CEILING SYSTEM WITH ASSOCIATED LIGHTING FOR THE NEW RECEPTION AND OFFICE SUITE AREA. SEE ROPS AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - INSTALL NEW GYP CEILING IN CONFERENCE ROOMS AND PORTION OF OFFICE SUITE AREA. GYP CEILINGS ARE TO FOLLOW SLOPE OF THE EXISTING CEILING STRUCTURE. PROVIDE AND INSTALL NEW PENDANT LIGHTS. SEE SECTIONS, ROPS, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
 - PROVIDE AND INSTALL NEW PIPING WITHIN THE HATCH REGION (TRIANGLE PATTERN) SHOWN. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.
 - PROVIDE NEW WALL CHASE TO ENCLOSE EXISTING STORM DRAIN PIPE.

KEY PLAN



CORDOGAN CLARK
ARCHITECTURE • ENGINEERING • CONSTRUCTION

ARCHITECT:

CONSULTANTS:

EAST AURORA SCHOOL DISTRICT #131
EAS MECHANICAL IMPROVEMENTS -
PHASE III
500 TONICAT LN.
AURORA, IL 60506

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CC JOB NUMBER 26-1012

DATE 10.01.2026

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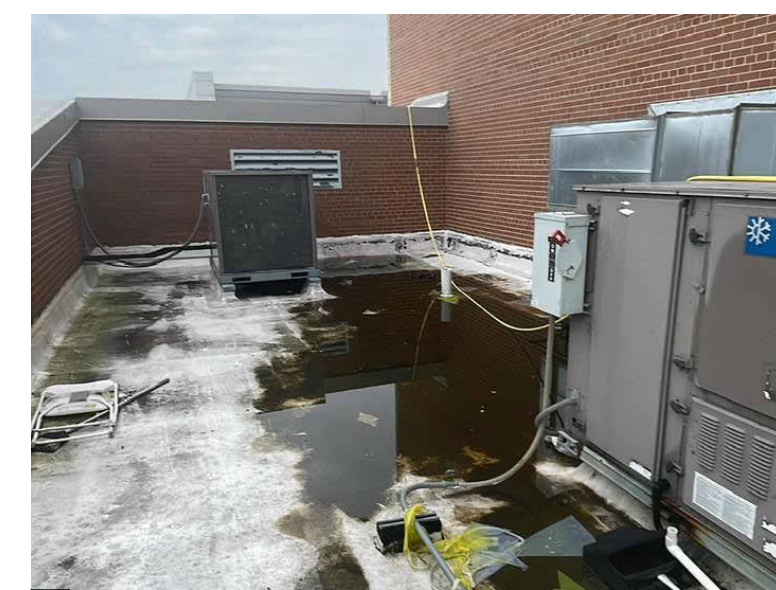
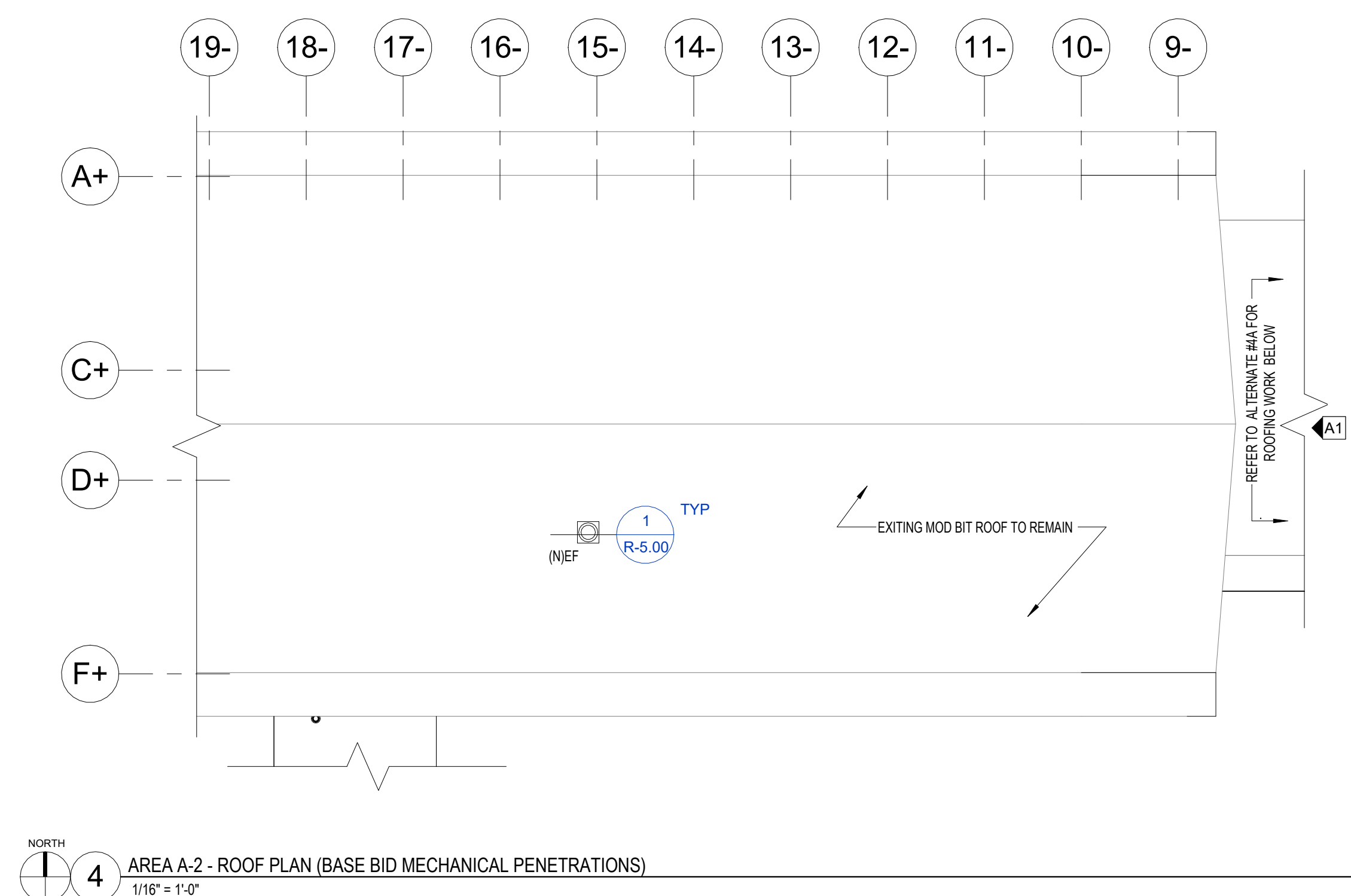
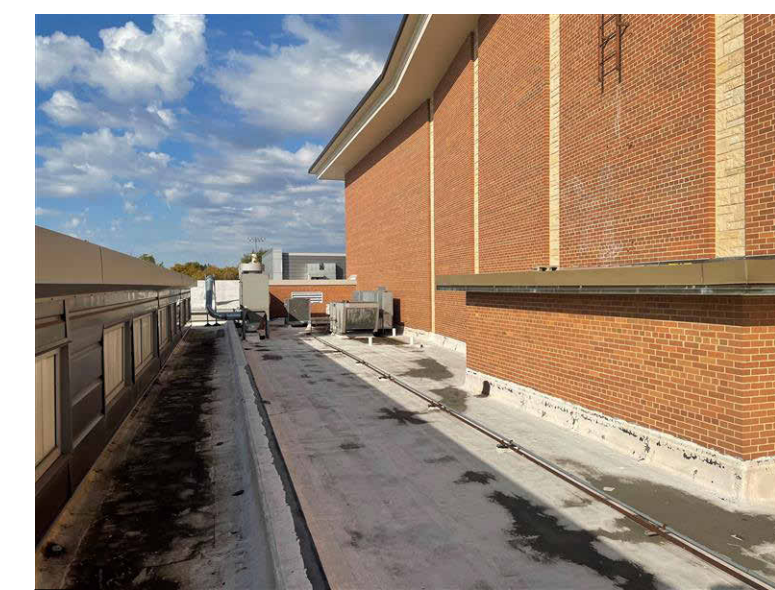
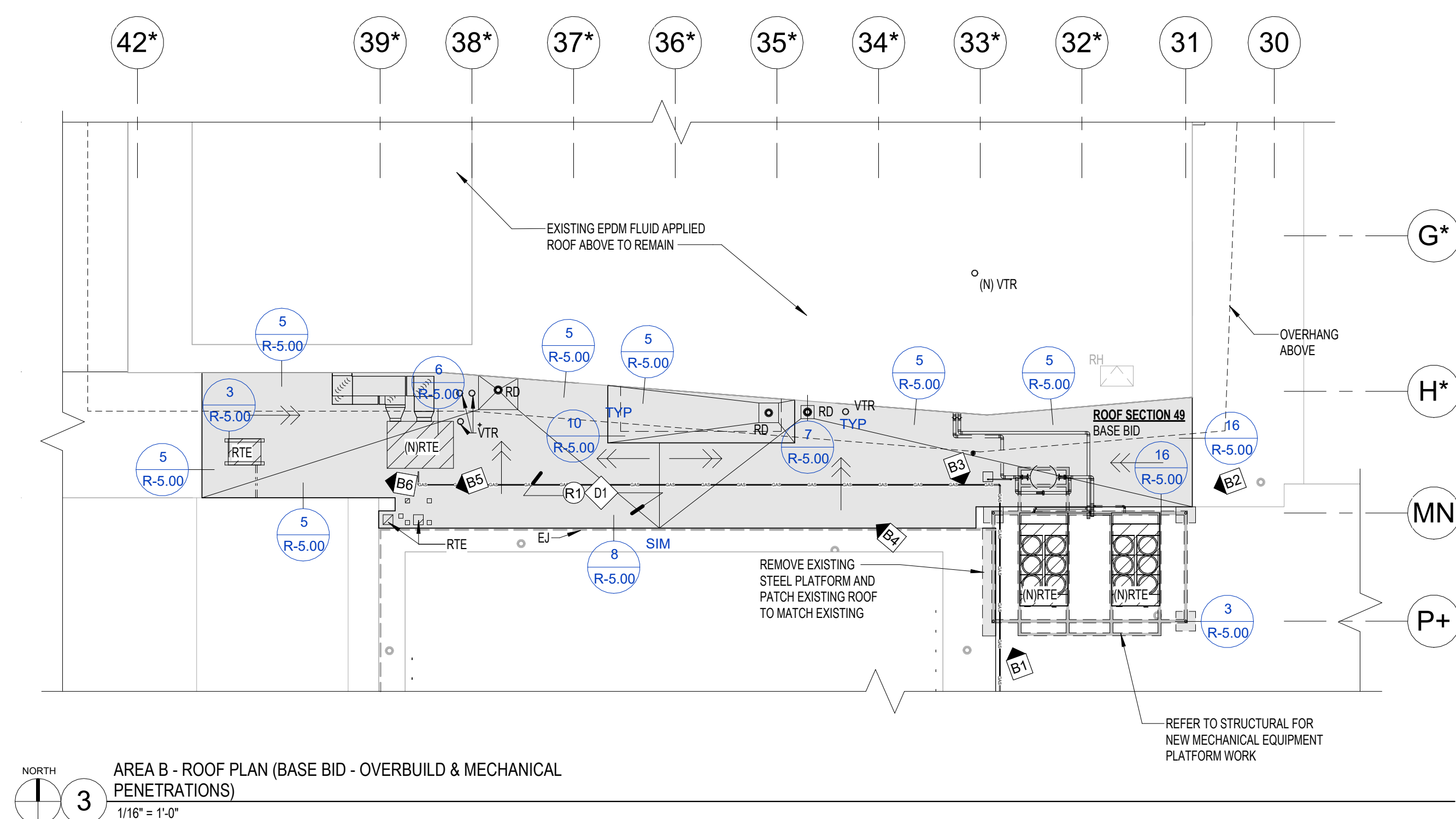
#	Description	Date
1	ADDENDUM 02	10.09.2026
3	ADDENDUM 04	10.19.2026

DRAWING TITLE:

AREA C - FIRST FLOOR PLAN

C-A2.31

ISSUED FOR BID SET - 10.01.2026



GENERAL ROOFING NOTES

1. REFER TO MECHANICAL ROOF PLAN FOR BOILER SYSTEM ROOF PENETRATIONS.
2. PATCH ROOF TO MATCH EXISTING ADJACENT ROOF SYSTEM AS REQUIRED FOR ALL NEW MECHANICAL PENETRATIONS. REFERENCE MECHANICAL DRAWINGS FOR ROOF PENETRATION LOCATIONS, QUANTITIES, AND TYPES
3. ALL MECHANICAL EQUIPMENT INCLUDING INSULATED ROOF CURBS SHALL BE PROVIDED AND INSTALLED. REFER TO MECHANICAL DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
4. ALL PLUMBING VENTS SHALL BE PROVIDED AND INSTALLED. REFER TO PLUMBING DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
5. ALL ROOF TERMINATIONS AND COUNTERFLASHING AT MECHANICAL AND PLUMBING ROOF PENETRATIONS SHALL BE PROVIDED AND INSTALLED. THE FULL ROOF WARRANTY AND GUARANTEE OF WATER RESISTANCE SHALL BE PROVIDED IN FULL.
6. ALL TAPERED INSULATION, B.U.R. ROOFING, ROOF TERMINATIONS, BLOCKING, COUNTERFLASHING, AND PENETRATION FLASHING SHALL BE PROVIDED.
7. ALL TAPERED INSULATION SHALL PROVIDE A MINIMUM 1/4"=1" SLOPE.
8. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, TO BE STAGGERED.
9. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS, ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF HIGHSIDE.
10. ALL COUNTER FLASHING, COPING, AND MISCELLANEOUS METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THE END CONDITION.
11. ALL EXPOSED FASTENERS TO BE CORROSIVE RESISTANT, HAVE NEOPRENE WASHERS, AND TO BE COVERED WITH SEALANT FOLLOWING ARCHITECT'S APPROVAL.
12. DRAINS TO BE FLASHED PER MANUFACTURER'S SPECIFICATION.
13. PROVIDE THROUGH-WALL COUNTER-FLASHING FOR ALL VERTICAL FLANGES, END WALL FLASHING, AND ROOF INTERSECTIONS.
14. INSTALL DRAINS ON THE HIGH SIDE OF ALL ROOF PENETRATION DETAILS.
15. ALL OPENINGS FROM REMOVED EQUIPMENT SHALL BE MODIFIED FOR NEW EQUIPMENT OR CLOSED TO MATCH ADJACENT ROOF SYSTEM PER EXISTING ROOF MANUFACTURER'S WARRANTY REQUIREMENTS.
16. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FULL SCOPE OF ROOF PENETRATIONS. COORDINATE ALL FLASHINGS IN OTHER TRADES. TYP.
17. PROVIDE NEW EQUIPMENT CURBS AND REQUIRED STRUCTURAL REINFORCING AT ALL NEW ROOF TOP UPGRADES.

ROOF DEMOLITION KEYNOTES - BASE BID

- D1** EXISTING ROOF CONSTRUCTION AS FOLLOWS. REMOVE ALL COMPONENTS IN THEIR ENTIRETY UNLESS NOTED TO REMAIN:
- AREA B:**
- BASE BID - ROOF SECTION 49:
BUILT-UP ROOF (TO REMAIN), 1 1/2" ISO. INSULATION (TO REMAIN), OVER CONCRETE DECK (TO REMAIN)

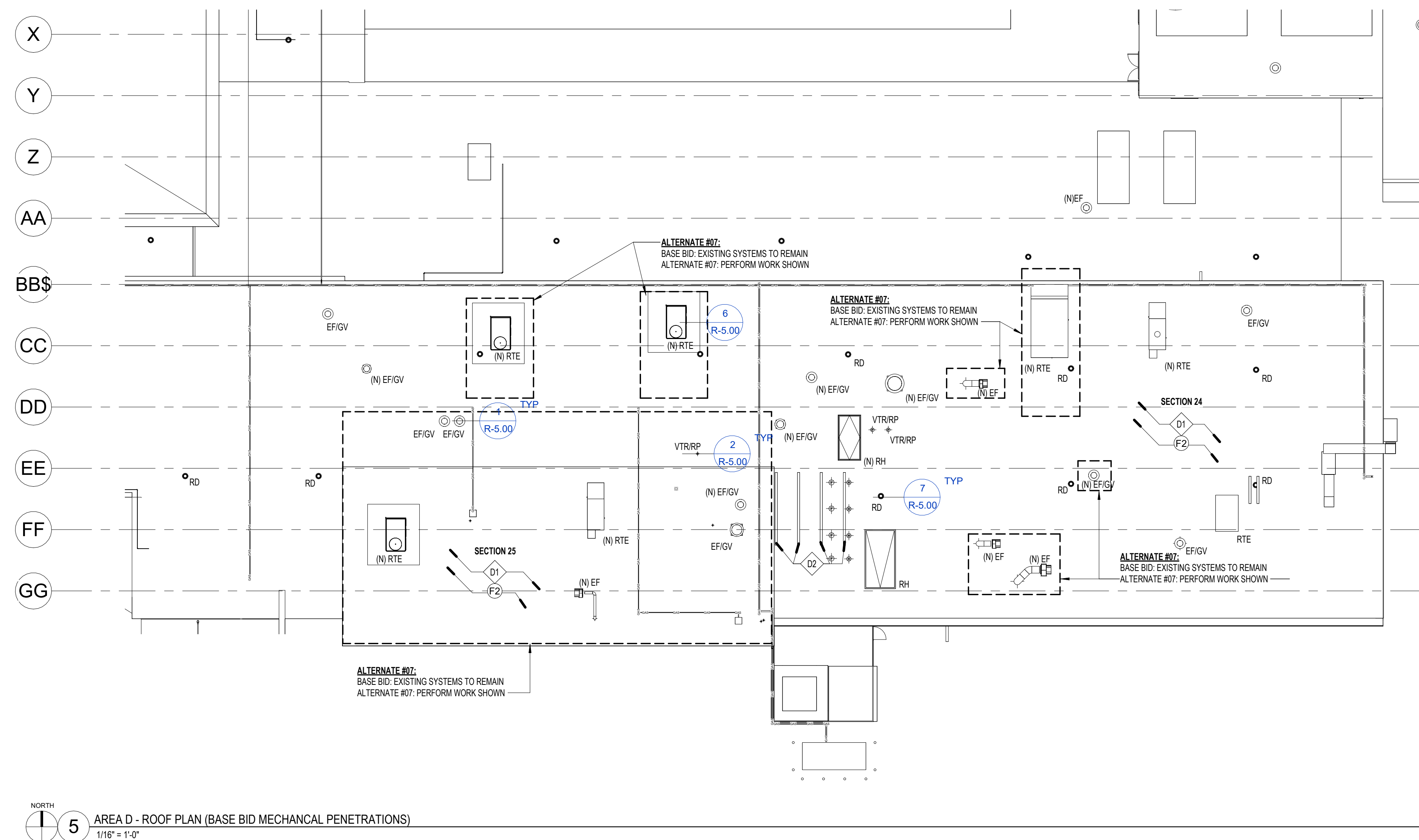
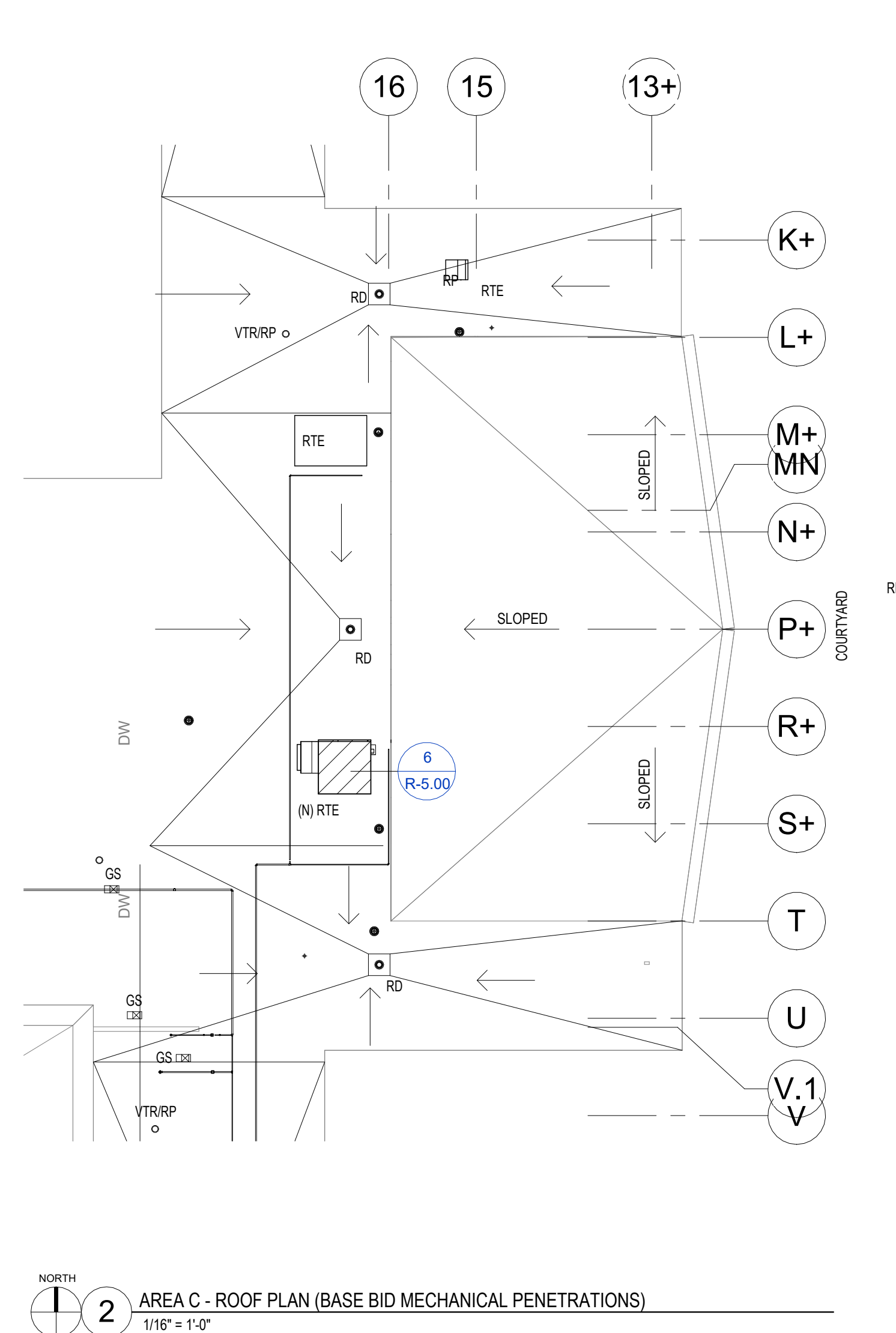
ROOFING KEYNOTES

- (R1) NEW TAPERED INSULATION AND MOD BIT ROOF OVER EXISTING MOD BIT ROOF. ROOFING SYSTEM #2. INSULATION TO PROVIDE POSITIVE DRAINAGE AT ALL AREAS

NEW ROOF CONSTRUCTION

REFER TO PLAN AND SPECIFICATIONS FOR ROOF WORK SCOPE.
CONTRACTOR IS REQUIRED TO VERIFY ROOF DIMENSIONS AND AREA IN FIELD.

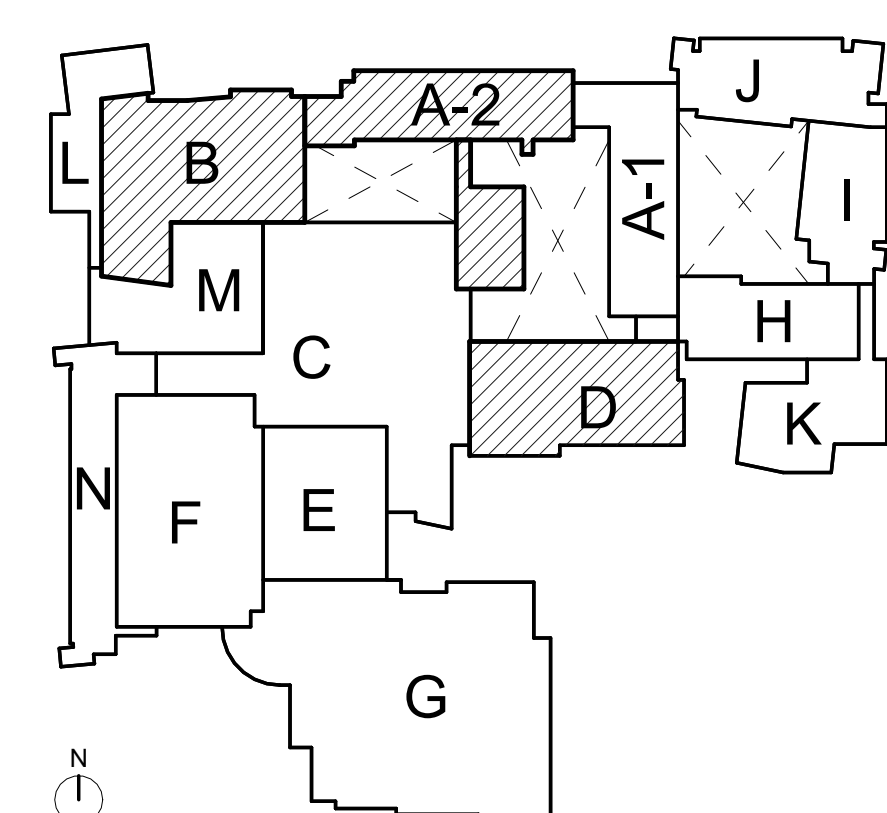
ROOF 49 AREA: 3,000 SF. - ROOF SYSTEM #1 - BASE BID



SYMBOLS AND ABBREVIATIONS

- | | | | |
|---|---|---|--|
|  | EXISTING ROOF DRAIN/
OVERFLOW DRAIN TO REMAIN |  | SADDLE ON HIGH SIDE OF MECHANICAL
EQUIPMENT, PROVIDE TYPICAL |
|  | EXISTING ROOF GRAVITY
EXHAUST FAN/ GROUT VENT
TO REMAIN |  | NEW WORK
EXISTING TO REMAIN |
|  | EXISTING VENT THROUGH
ROOF/ ROOF PENETRATION
TO REMAIN |  | EXPANSION JOINT |
|  | EXISTING LIGHT TO REMAIN |  | EXISTING CONDUIT PIPE
TO REMAIN |
|  | EXISTING GOOSENECK
SUPPLY DUCT TO REMAIN |  | EXISTING GAS LINE TO REMAIN;
REMOVE AND REPLACE SURFACE-
MOUNTED SUPPORTS AS SPECIFIED |
|  | EXISTING ROOF TOP
EQUIPMENT TO REMAIN | (N) | NEW ITEM |
|  | EXISTING SKYLIGHT TO
REMAIN | (D) | DEMO EXISTING |
|  | EXISTING SCUPPER AND
DOWNSPOUT TO REMAIN |  | EXISTING ROOF HATCH
TO REMAIN |
|  | FLAT INSULATION OVER
SLOPED STRUCTURE |  | EXISTING ROOF LADDER TO
REMAIN |
|  | FLAT INSULATION OVER
CURVING STRUCTURE |  | TAPERED INSULATION, 1/8"
PER FOOT |
|  | ANTENNA |  | TAPERED INSULATION, 1/4"
PER FOOT |
| | |  | TAPERED INSULATION, 1/2"
PER FOOT |

KEY PLAN



CORDOGAN CLARK
ARCHITECTURE • ENGINEERING • CONSTRUCTION

ARCHITECT:

CONSULTANTS:



EAST AURORA SCHOOL DISTRICT #131
EAHS MECHANICAL IMPROVEMENTS -
PHASE III
500 TOMCAT LN.
AURORA, IL 60506

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CC JOB NUMBER

DATE 10.01.2028

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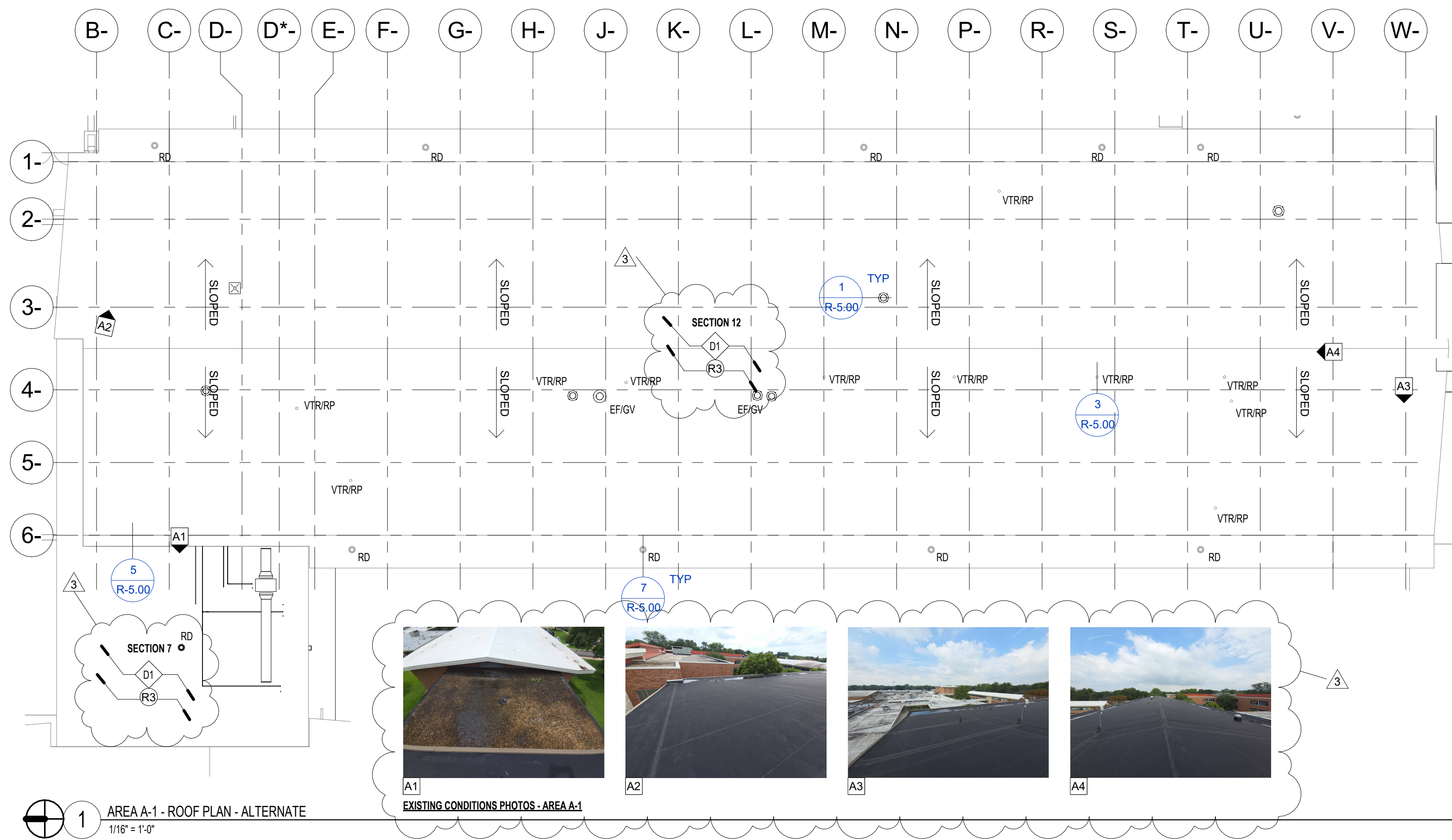
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8	ADDENDUM 04	10.19.202

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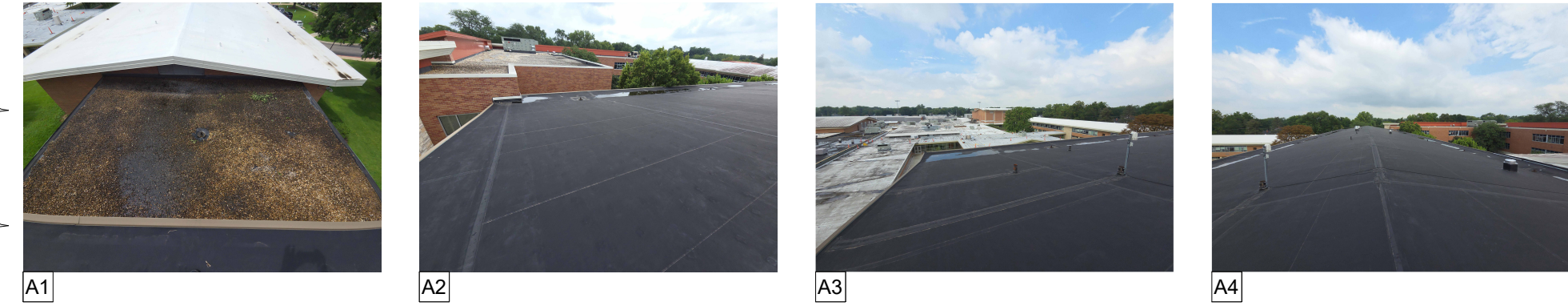
ROOF PLANS -
BASE BID

R-4.00

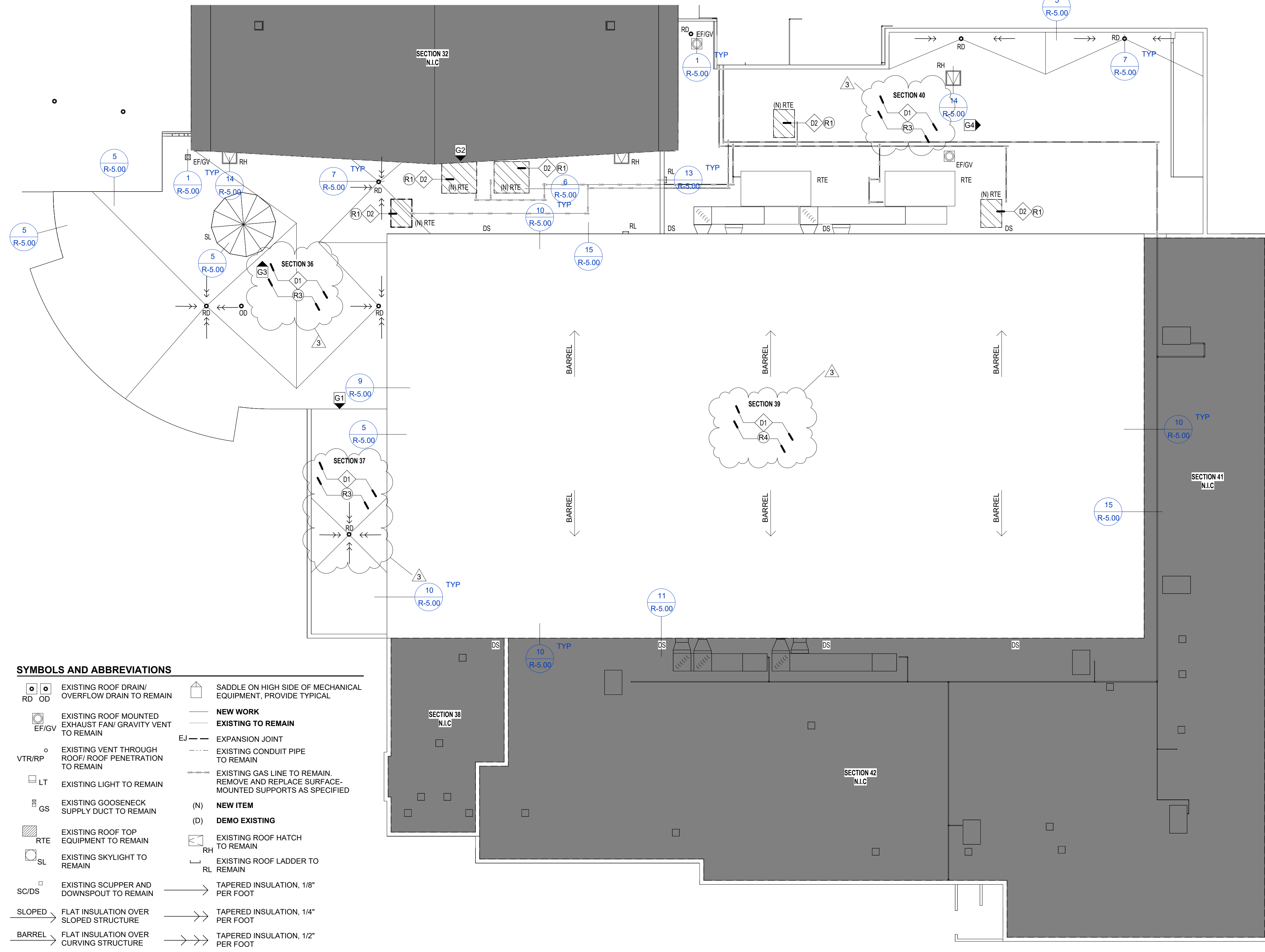
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1 AREA A-1 - ROOF PLAN - ALTERNATE
1/16" = 1'-0"



EXISTING CONDITIONS PHOTOS - AREA A-1



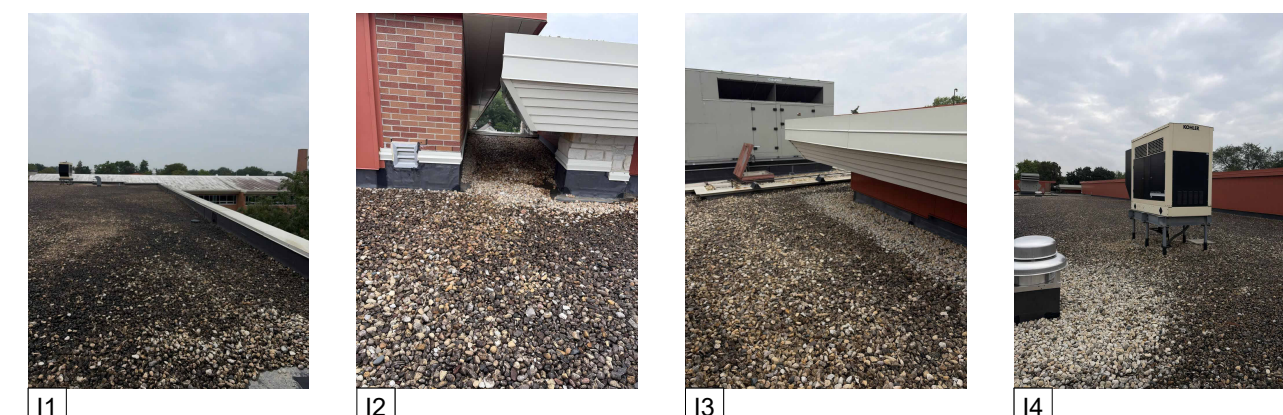
SYMBOLS AND ABBREVIATIONS

	EXISTING ROOF DRAIN/ OVERFLOW DRAIN TO REMAIN		SADDLE ON HIGH SIDE OF MECHANICAL EQUIPMENT, PROVIDE TYPICAL
	EXISTING ROOF MOUNTED EXHAUST FAN/ GRAVITY VENT TO REMAIN		NEW WORK
	EXISTING VENT THROUGH ROOF/ ROOF PENETRATION TO REMAIN		EXISTING TO REMAIN
	EXISTING LIGHT TO REMAIN		EXPANSION JOINT
	EXISTING GOOSENECK SUPPLY DUCT TO REMAIN		EXISTING CONDUIT PIPE TO REMAIN
	EXISTING ROOF TOP EQUIPMENT TO REMAIN		EXISTING GAS LINE TO REMAIN, REMOVE AND REPLACE SURFACE-MOUNTED SUPPORTS AS SPECIFIED
	EXISTING SKYLIGHT TO REMAIN		NEW ITEM
	EXISTING SCUPPER AND DOWNSPOUT TO REMAIN		DEMO EXISTING
	FLAT INSULATION OVER SLOPED STRUCTURE		EXISTING ROOF HATCH TO REMAIN
	FLAT INSULATION OVER CURVING STRUCTURE		EXISTING ROOF LADDER TO REMAIN
	ANTENNA		TAPERED INSULATION, 1/8" PER FOOT
			TAPERED INSULATION, 1/4" PER FOOT
			TAPERED INSULATION, 1/2" PER FOOT

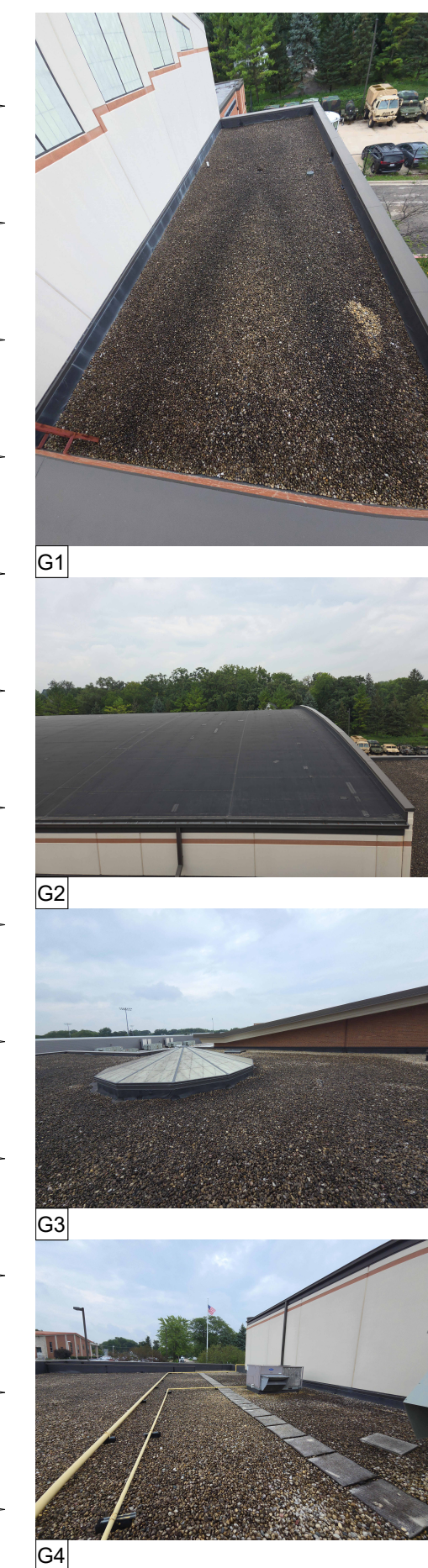
2 AREA G - ROOF PLAN - ALTERNATE
1/16" = 1'-0"



3 AREA I & AREA J - ROOF PLAN - ALTERNATE
1/16" = 1'-0"



EXISTING CONDITIONS PHOTOS - AREA I



EXISTING CONDITIONS PHOTOS - AREA G

ALTERNATES

ALTERNATE #B1 - AREA D CHIMNEY REMOVAL: DEMOLISH EXISTING CHIMNEY DOWN TO GRADE. PREP AREA TO RECEIVE NEW ASPHALT TO MATCH THE SURROUNDING CONDITIONS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. DEMOLISH EXISTING ADJACENT MAINTENANCE SHED IN ITS ENTIRETY. RE-ROUTE GAS PIPING AND PROVIDE A NEW FENCE AROUND MAINTENANCE YARD. IF ALTERNATE IS NOT ACCEPTED, CHIMNEY IS TO BE CAPPED WITH METAL PLATE AND ANY OPENINGS LEFT IN CHIMNEY MASONRY FROM FLUE DUCT REMOVAL ARE TO BE PATCHED TO MATCH SURROUNDING CONDITIONS.

ALTERNATE #B2 - AREA G FIELD HOUSE RTU REPLACEMENT: REMOVE AND REPLACE FIVE (5) EXISTING ROOF-TOP UNITS ON THE ROOF OF THE FIELD HOUSE.

ALTERNATE #B3 - AREA D ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOFING SYSTEM AT ROOF SECTION 24, AND BALLASTED EPDM ROOFING SYSTEM AT ROOF SECTION 25. REMOVE EXISTING ABANDONED VENT PIPE AND ASSOCIATED SUPPORTS IN THEIR ENTIRETY. PATCH AND REPAIR ROOF SYSTEM TO MATCH SURROUNDING CONDITIONS.

ALTERNATE #B4A - AREA A-1 ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM AT ROOF SECTION 7.

ALTERNATE #B4B - AREA A-1 ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOFING SYSTEM AT ROOF SECTION 12.

ALTERNATE #B5A - AREA J & AREA I ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM OVER THE OFFICE AREAS, SPECIFICALLY AT ROOF SECTIONS 8, 10, 11, 13, AND 15.

ALTERNATE #B5B - AREA K ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM OVER THE OFFICE AREAS, SPECIFICALLY AT ROOF SECTIONS 16, 17, AND 20.

ALTERNATE #B5C - AREA J & AREA K ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM STANDING SEAM ROOFING SYSTEM AT ROOF SECTIONS 9, 14, AND 19.

ALTERNATE #B6A - AREA G ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM AT ROOF SECTIONS 36, 37, AND 40.

ALTERNATE #B6B - AREA G ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOF SYSTEM OVER THE BARREL ROOF AT ROOF SECTION 39.

ALTERNATE #B7 - AREA D ALTERNATE AREAS:

ALTERNATE #B8 - TUNNEL LIGHTING:

GENERAL ROOFING NOTES

- REFER TO MECHANICAL ROOF PLAN FOR BOILER SYSTEM ROOM PENETRATIONS.
- PATCH ROOF TO MATCH EXISTING ADJACENT ROOF SYSTEM AS REQUIRED FOR ALL NEW MECHANICAL PENETRATIONS. REFERENCE MECHANICAL DRAWINGS FOR ROOF PENETRATION LOCATIONS, QUANTITIES, AND TYPES.
- ALL MECHANICAL EQUIPMENT INCLUDING INSULATED ROOF CURBS SHALL BE PROVIDED AND INSTALLED. REFER TO MECHANICAL DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
- ALL PLUMBING VENTS SHALL BE PROVIDED AND INSTALLED. REFER TO PLUMBING DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
- ALL ROOF TERMINATIONS AND COUNTERFLASHING AT MECHANICAL AND PLUMBING ROOF PENETRATIONS SHALL BE PROVIDED AND INSTALLED. THE FULL ROOF WARRANTY AND GUARANTEE OF WATER RESISTANCE SHALL BE PROVIDED IN FULL.
- ALL TAPERED INSULATION, B.U.R. ROOFING, ROOF TERMINATIONS, BLOCKING, COUNTERFLASHING, AND PENETRATION FLASHING SHALL BE PROVIDED.
- ALL TAPERED INSULATION SHALL PROVIDE A MINIMUM 1/4"=1'-0" SLOPE.
- ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, TO BE STAGGERED.
- ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS, ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE.
- ALL COUNTER FLASHING, COPING, AND MISCELLANEOUS METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THE END CONDITION.
- ALL EXPOSED FASTENERS TO BE CORROSION RESISTANT, HAVE NEOPRENE WASHERS, AND TO BE COVERED WITH SEALANT FOLLOWING ARCHITECT'S APPROVAL.
- DRAINS TO BE FLASHED PER MANUFACTURER'S SPECIFICATION.
- PROVIDE THROUGH-WALL COUNTER-FLASHING FOR ALL VERTICAL FLANGES, END WALL FLASHING, AND ROOF INTERSECTIONS.
- INSTALL SADDLES ON THE HIGH SIDE OF ALL ROOF PENETRATION DETAILS.
- ALL OPENINGS FROM REMOVED EQUIPMENT SHALL BE MODIFIED FOR NEW EQUIPMENT OR CLOSED TO MATCH ADJACENT ROOF SYSTEM PER EXISTING ROOF MANUFACTURER'S WARRANTY REQUIREMENTS.
- REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FULL SCOPE OF ROOF PENETRATIONS. COORDINATE ALL FLASHINGS W/ OTHER TRADES, TYP.
- PROVIDE NEW EQUIPMENT CURBS AND REQUIRED STRUCTURAL REINFORCING AT ALL NEW ROOF TOP UNITS.

ROOF DEMOLITION KEYNOTES - ALTERNATES

- D1** EXISTING ROOF CONSTRUCTION AS FOLLOWS. REMOVE ALL COMPONENTS IN THEIR ENTIRETY UNLESS NOTED TO REMAIN:
- AREA A-1:**
- ALTERNATE #B4A - ROOF SECTION 7:
BALLASTED EPDM OVER 2" ISO INSULATION, OVER BUILT-UP ROOF (TO REMAIN), OVER 1/2" WOOD FIBER BOARD (TO REMAIN), OVER CONCRETE DECK (TO REMAIN).
 - ALTERNATE #B4B - ROOF SECTION 12:
ADHERED EPDM, OVER 2" ISO INSULATION, OVER BUILT-UP ROOF (TO REMAIN), OVER 1/2" WOOD FIBER BOARD (TO REMAIN), OVER GYPSUM DECK (TO REMAIN).
- AREA J & I:**
- ALTERNATE #B5A - ROOF SECTIONS 8, 10, 11, 13, 15:
GRAVEL, OVER BALLASTED EPDM MEMBRANE, OVER 2" RIGID INSULATION (TO REMAIN), OVER METAL DECK (TO REMAIN).
- AREA K:**
- ALTERNATE #B5B - ROOF SECTIONS 16, 17, 20:
GRAVEL, OVER BALLASTED EPDM MEMBRANE, OVER 2" RIGID INSULATION (TO REMAIN), OVER METAL DECK (TO REMAIN).
- AREA G:**
- ALTERNATE #B6A - ROOF SECTIONS 36, 37, 40:
GRAVEL, OVER BALLASTED EPDM MEMBRANE, OVER 2" RIGID INSULATION (TO REMAIN), OVER METAL DECK (TO REMAIN).
 - ALTERNATE #B6B - ROOF SECTION 39:
ADHERED EPDM (TO REMAIN), OVER 3" RIGID INSULATION (TO REMAIN), OVER ACOUSTIC METAL DECK (TO REMAIN).
- D2** REMOVE EXISTING ROOFTOP UNIT IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS. PREP AREA TO RECEIVE NEW ROOFTOP UNIT WITH STANDARD CURBS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

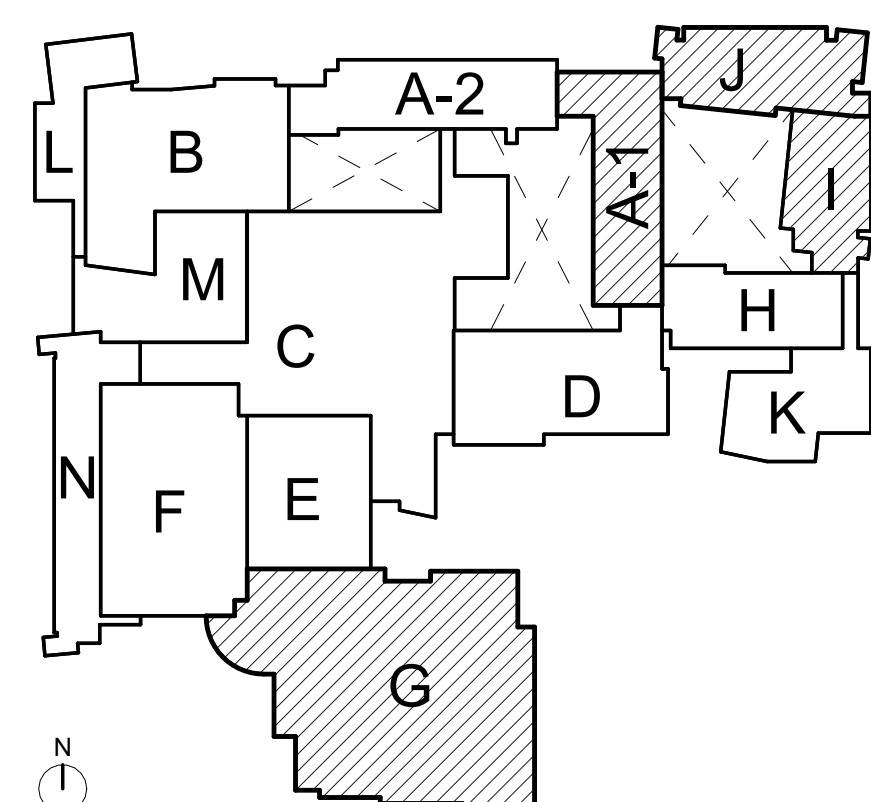
ROOFING KEYNOTES - ALTERNATES

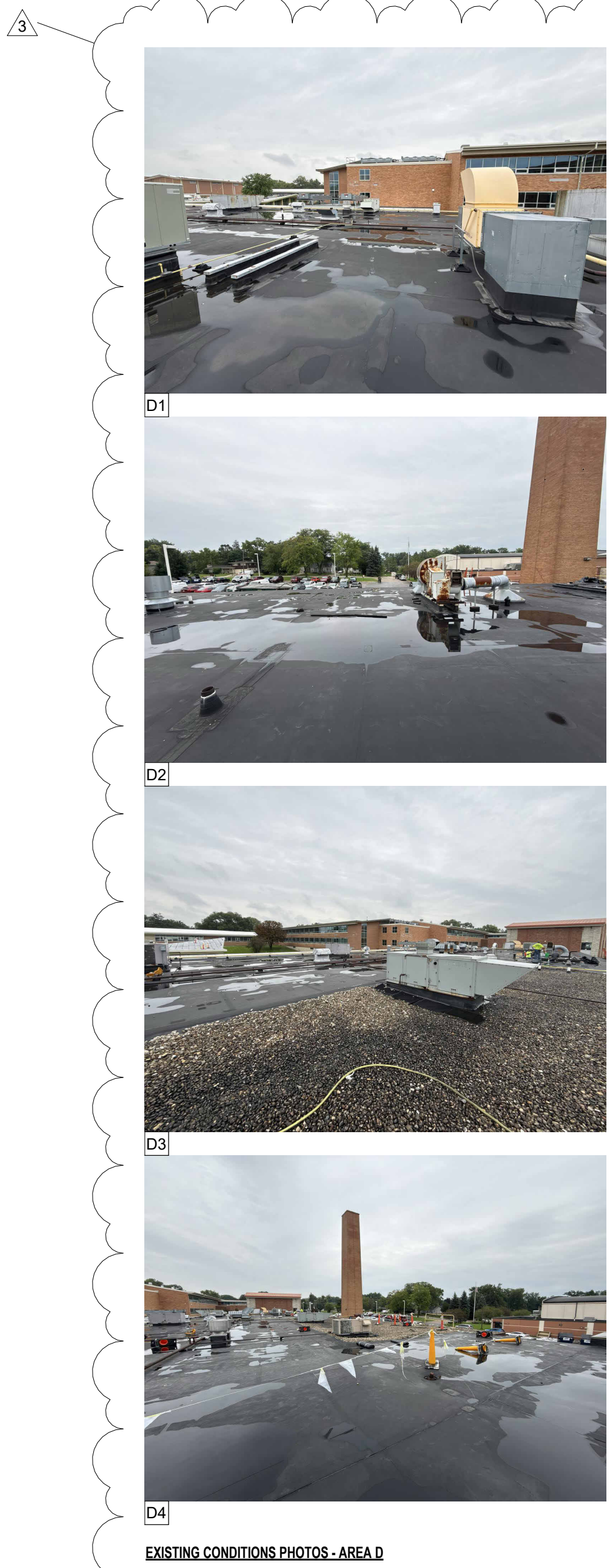
- R1** PROVIDE AND INSTALL NEW ROOFTOP UNIT INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS. PROVIDE NEW MECHANICAL EQUIPMENT CURBS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R2** PROVIDE FULL REPLACEMENT MOD BIT ROOF SYSTEM, ROOFING SYSTEM #1.
- R3** PROVIDE NEW MOD BIT OVERBUILD ROOF SYSTEM, ROOFING SYSTEM #2.
- R4** PROVIDE NEW RESTORATION COATING OVER EXISTING EPDM MEMBRANE (20 YEAR WARRANTY). REFER TO SPECIFICATIONS FOR MORE INFORMATION. STRICTLY FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS IN ORDER TO ISSUE A WARRANTY. ROOFING SYSTEM #3.

NEW ROOF CONSTRUCTION

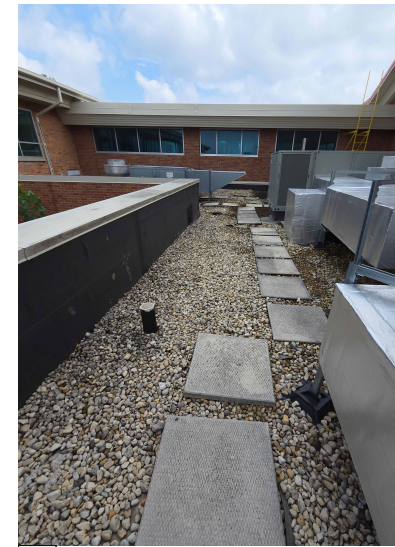
- AREA A-1:**
- ROOF 7 AREA: 2,000 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B4A
 - ROOF 12 AREA: 21,000 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B4B
- AREA I:**
- ROOF 13 AREA: 7,800 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B5A
 - ROOF 14 AREA: 5,700 SF - ROOF SYSTEM #5 - (EPDM COAT) - ALTERNATE #B5C
 - ROOF 15 AREA: 3,500 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B5A
- AREA J:**
- ROOF 8 AREA: 1,600 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B5A
 - ROOF 9 AREA: 5,400 SF - ROOF SYSTEM #5 - (EPDM COAT) - ALTERNATE #B5C
 - ROOF 10 AREA: 9,000 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B5A
 - ROOF 11 AREA: 2,700 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B5A
- AREA G:**
- ROOF 36 AREA: 8,000 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B6A
 - ROOF 37 AREA: 1,400 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B6A
 - ROOF 39 AREA: 25,000 SF - ROOF SYSTEM #3 - (EPDM COAT) - ALTERNATE #B6B
 - ROOF 40 AREA: 8,200 SF - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #B6A

KEY PLAN





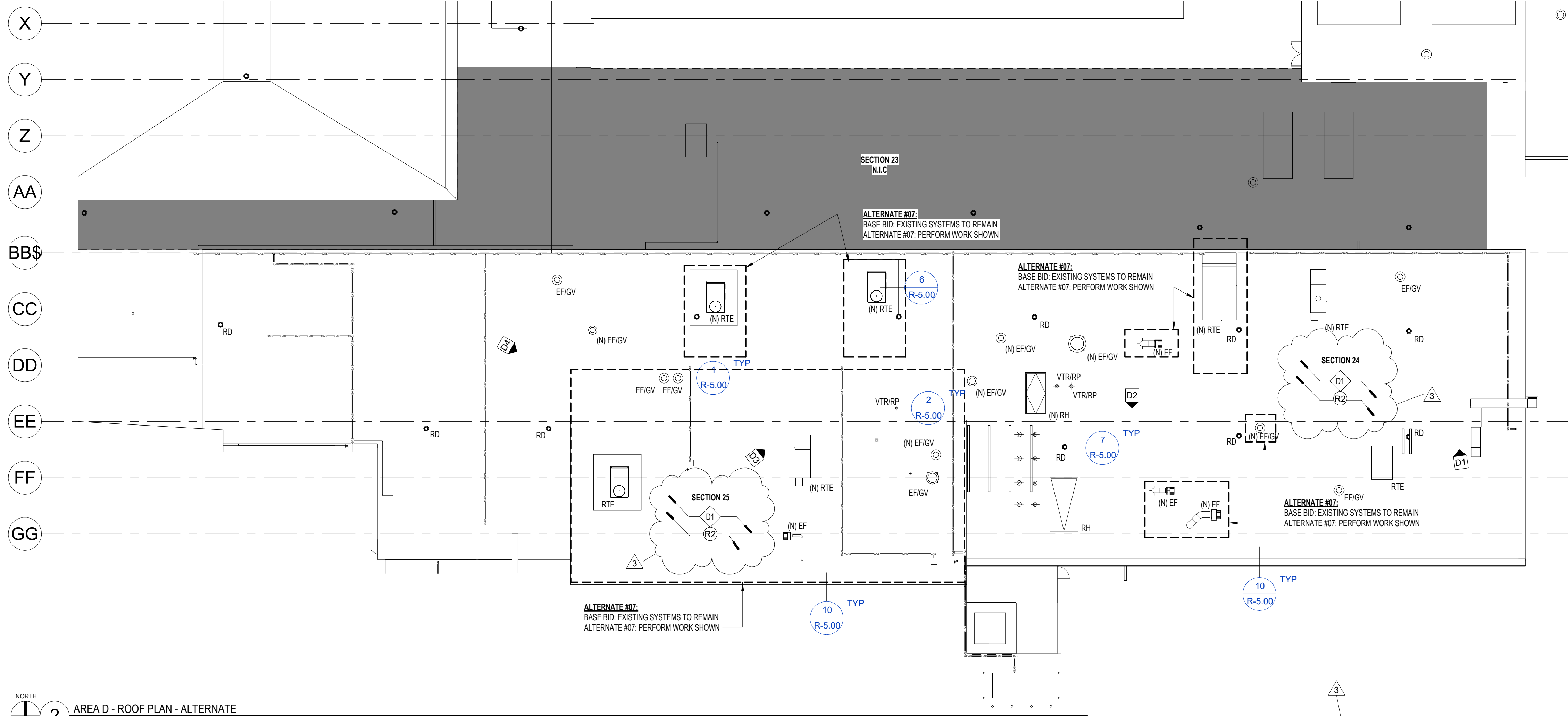
EXISTING CONDITIONS PHOTOS - AREA D



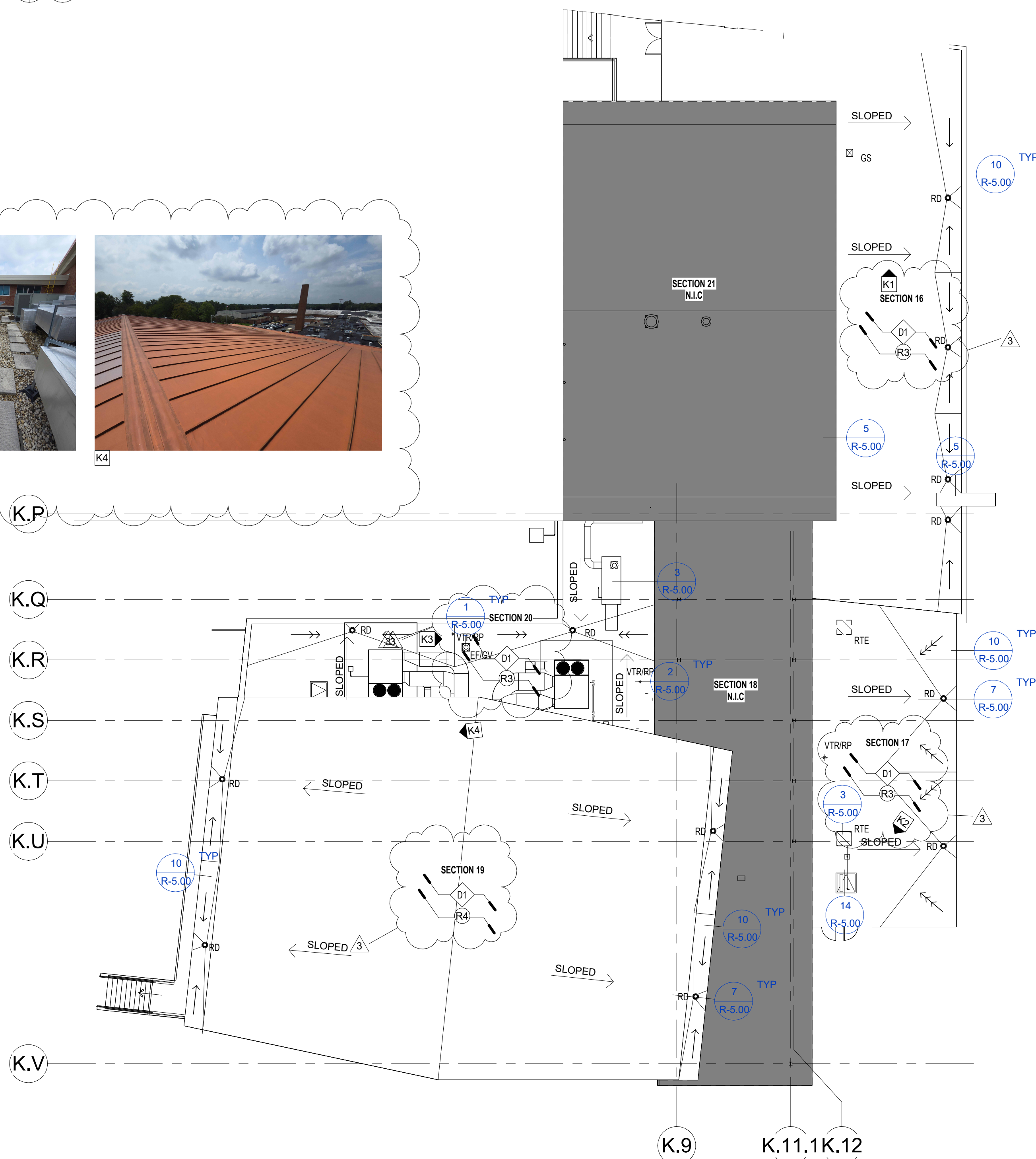
EXISTING CONDITIONS PHOTOS - AREA K

SYMBOLS AND ABBREVIATIONS

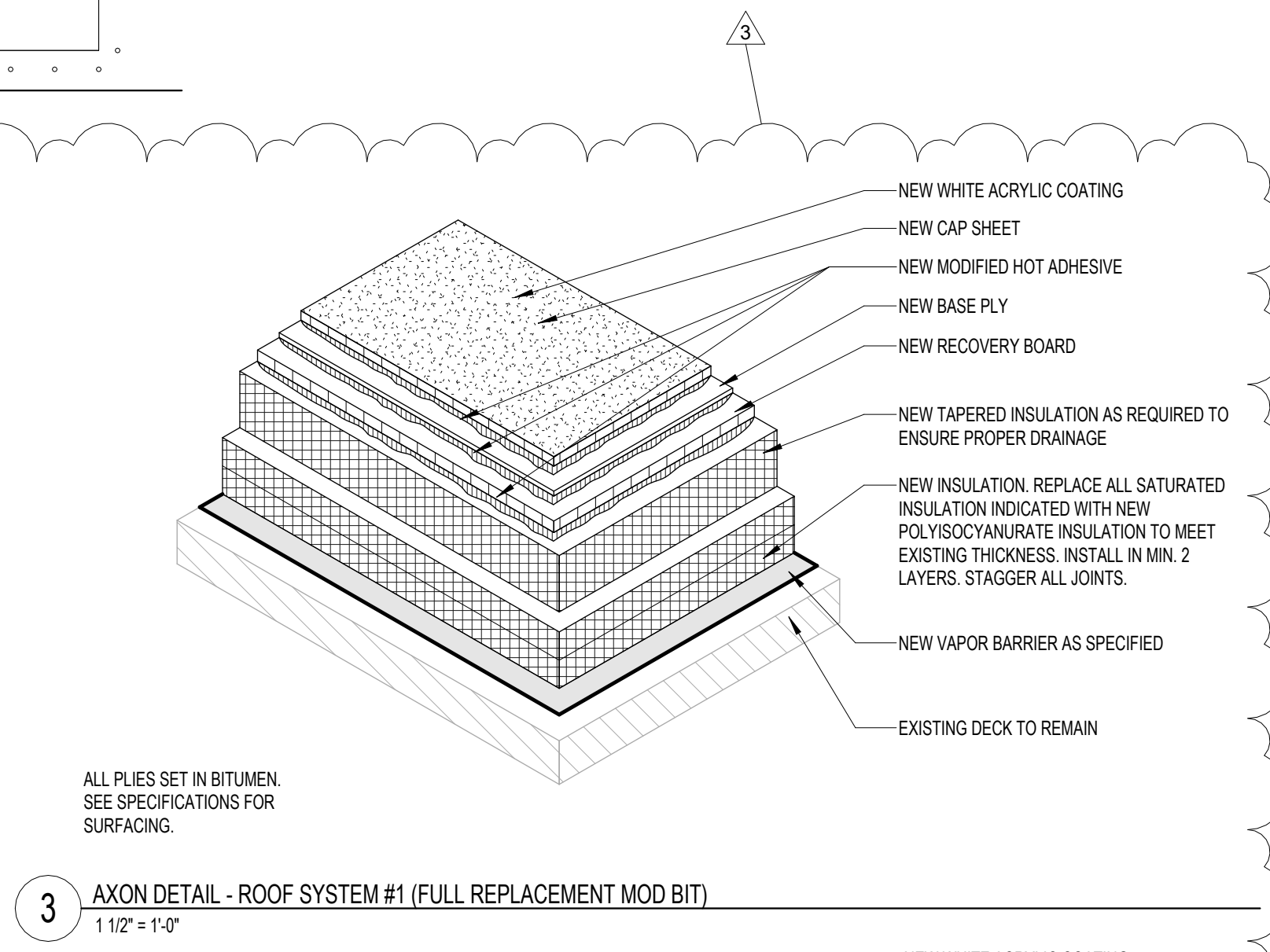
RD	EXISTING ROOF DRAIN/ OVERFLOW DRAIN TO REMAIN	SADDLE ON HIGH SIDE OF MECHANICAL EQUIPMENT, PROVIDE TYPICAL
EF/GV	EXISTING ROOF MOUNTED EXHAUST FAN/ GRAVITY VENT TO REMAIN	NEW WORK
VTR/RP	EXISTING VENT THROUGH ROOF/ ROOF PENETRATION TO REMAIN	EXISTING TO REMAIN
LT	EXISTING LIGHT TO REMAIN	EXPANSION JOINT
GS	EXISTING GOOSENECK SUPPLY DUCT TO REMAIN	EXISTING CONDUIT PIPE TO REMAIN
RTE	EXISTING ROOF TOP EQUIPMENT TO REMAIN	EXISTING GAS LINE TO REMAIN
SL	EXISTING SKYLIGHT TO REMAIN	REMOVE AND REPLACE SURFACE-MOUNTED SUPPORTS AS SPECIFIED
SCDS	EXISTING SCUPPER AND DOWNSPOUT TO REMAIN	NEW ITEM
SLOPED	FLAT INSULATION OVER SLOPED STRUCTURE	DEMO EXISTING
BARREL	FLAT INSULATION OVER CURVING STRUCTURE	EXISTING ROOF HATCH TO REMAIN
AT	ANTENNA	EXISTING ROOF LADDER TO REMAIN



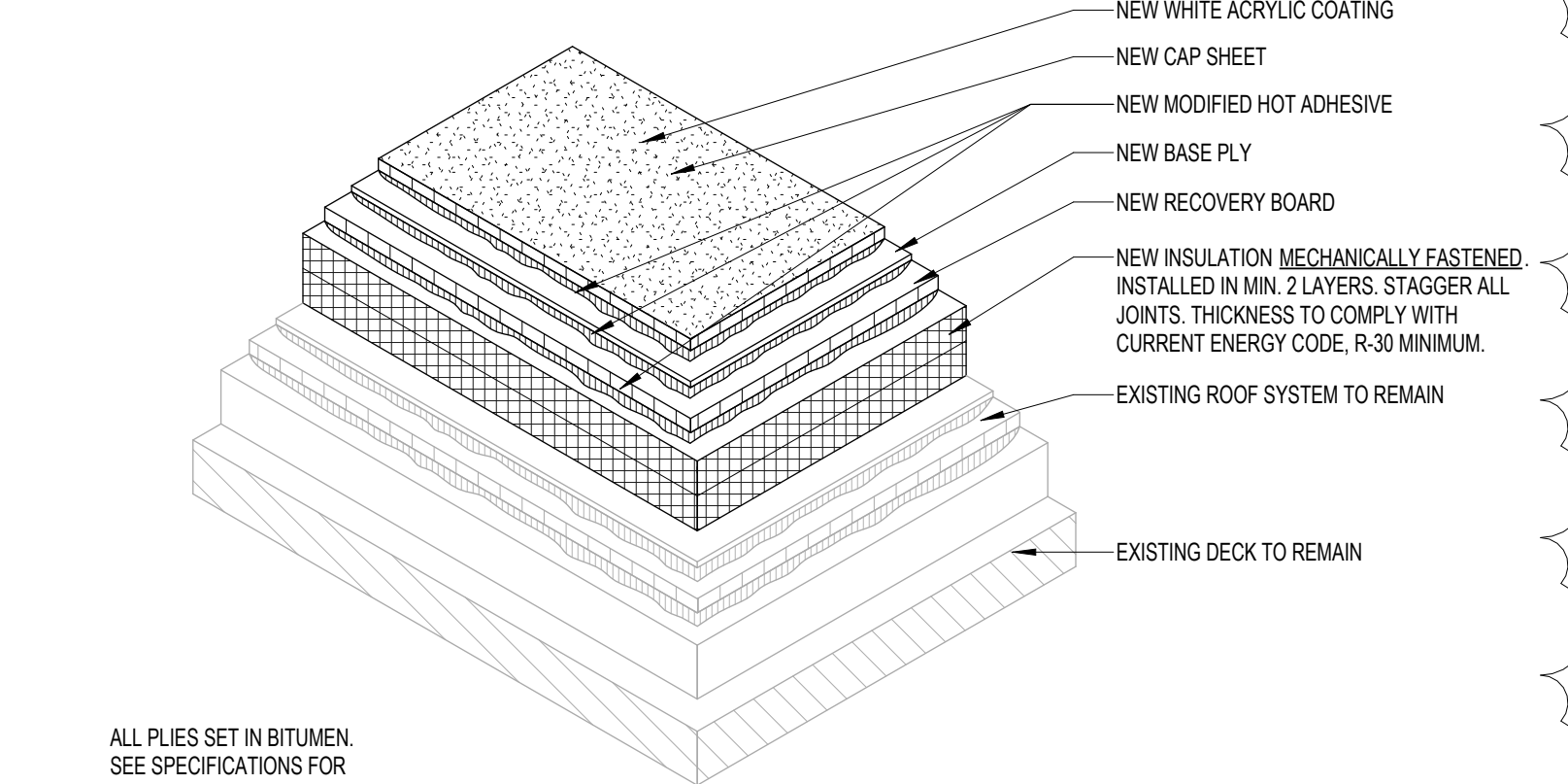
2 AREA D - ROOF PLAN - ALTERNATE
1/16" = 1'-0"



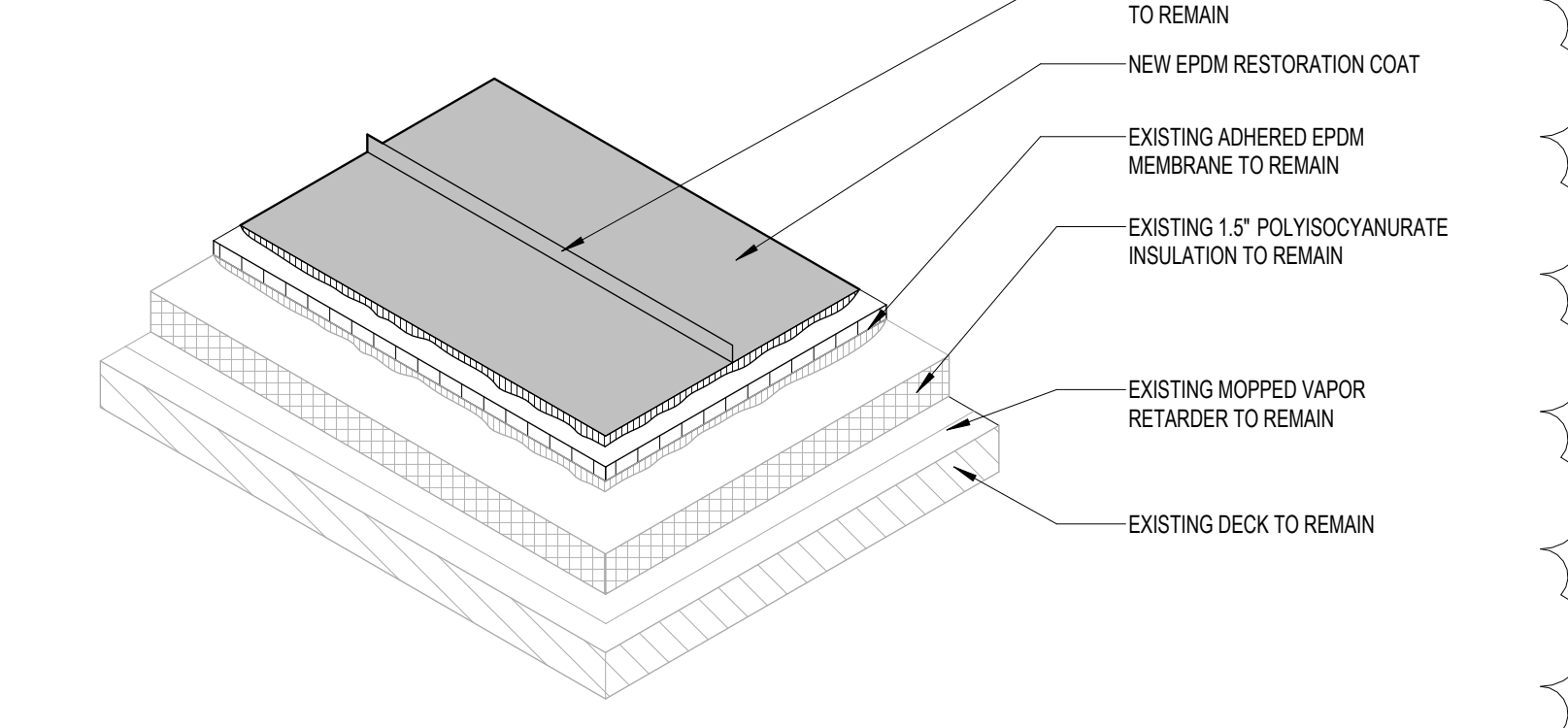
1 AREA K - ROOF PLAN - ALTERNATE
1/16" = 1'-0"



3 AXON DETAIL - ROOF SYSTEM #1 (FULL REPLACEMENT MOD BIT)
1 1/2" = 1'-0"



4 AXON DETAIL - ROOF SYSTEM #2 (MOD BIT OVER BUILD)
1 1/2" = 1'-0"



5 AXON DETAIL - ROOF SYSTEM #3 (EPDM RESTORATION COAT)
1 1/2" = 1'-0"

GENERAL ROOFING NOTES

1. REFER TO MECHANICAL ROOF PLAN FOR BOILER SYSTEM ROOM PENETRATIONS.
2. PATCH ROOF TO MATCH EXISTING ADJACENT ROOF SYSTEM AS REQUIRED FOR ALL NEW MECHANICAL PENETRATIONS. REFERENCE MECHANICAL DRAWINGS FOR ROOF PENETRATION LOCATIONS, QUANTITIES, AND TYPES.
3. ALL MECHANICAL EQUIPMENT INCLUDING INSULATED ROOF CURBS SHALL BE PROVIDED AND INSTALLED. REFER TO MECHANICAL DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
4. ALL PLUMBING VENTS SHALL BE PROVIDED AND INSTALLED. REFER TO PLUMBING DRAWINGS FOR ROOF PENETRATIONS AND ROOF TOP EQUIPMENT.
5. ALL ROOF TERMINATIONS AND COUNTERFLASHING AT MECHANICAL AND PLUMBING ROOF PENETRATIONS SHALL BE PROVIDED AND INSTALLED. THE FULL ROOF WARRANTY AND GUARANTEE OF WATER RESISTANCE SHALL BE PROVIDED IN FULL.
6. ALL TAPERED INSULATION, B.U.R. ROOFING, ROOF TERMINATIONS, BLOCKING, COUNTERFLASHING, AND PENETRATION FLASHING SHALL BE PROVIDED.
7. ALL TAPERED INSULATION SHALL PROVIDE A MINIMUM 1/4" 1'-0" SLOPE.
8. ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, TO BE STAGGERED.
9. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS, ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE.
10. ALL COUNTER FLASHING, COPING, AND MISCELLANEOUS METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THE END CONDITION.
11. ALL EXPOSED FASTENERS TO BE CORROSION RESISTANT, HAVE NEOPRENE WASHERS, AND TO BE COVERED WITH SEALANT FOLLOWING ARCHITECT'S APPROVAL.
12. DRAINS TO BE FLASHED PER MANUFACTURER'S SPECIFICATION.
13. PROVIDE THROUGH-WALL COUNTER-FLASHING FOR ALL VERTICAL FLANGES, END WALL FLASHING, AND ROOF INTERSECTIONS.
14. INSTALL SADDLES ON THE HIGH SIDE OF ALL ROOF PENETRATION DETAILS.
15. ALL OPENINGS FROM REMOVED EQUIPMENT SHALL BE MODIFIED FOR NEW EQUIPMENT OR CLOSED TO MATCH ADJACENT ROOF SYSTEM PER EXISTING ROOF MANUFACTURER'S WARRANTY REQUIREMENTS.
16. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR FULL SCOPE OF ROOF PENETRATIONS. COORDINATE ALL FLASHINGS W/ OTHER TRADES, TYP.
17. PROVIDE NEW EQUIPMENT CURBS AND REQUIRED STRUCTURAL REINFORCING AT ALL NEW ROOF TOP UNITS.

ROOF DEMOLITION KEYNOTES - ALTERNATES

- D1 EXISTING ROOF CONSTRUCTION AS FOLLOWS. REMOVE ALL COMPONENTS IN THEIR ENTIRETY UNLESS NOTED TO REMAIN:
 - ALTERNATE #03 - ROOF SECTION 24:
 - ADHERED EPDM, OVER 2" ISO. INSULATION, OVER BUILT-UP ROOF, OVER 1/2" WOOD FIBER BOARD, OVER CONCRETE DECK (TO REMAIN).
 - ALTERNATE #03 - ROOF SECTION 25:
 - BALLASTED EPDM, OVER 2" ISO. INSULATION, OVER BUILT-UP ROOF, OVER 1/2" WOOD FIBER BOARD, OVER METAL DECK (TO REMAIN).
 - ALTERNATE #05B - ROOF SECTION 16, 17, 20:
 - GRAVEL, OVER BALLASTED EPDM MEMBRANE, OVER 2" RIGID INSULATION (TO REMAIN), OVER METAL DECK (TO REMAIN).
 - ALTERNATE #05C - ROOF SECTION 9, 14, 19:
 - ADHERED EPDM WITH FAUX STANDING SEAM (TO REMAIN), OVER, 2" RIGID INSULATION (TO REMAIN), OVER METAL DECK (TO REMAIN).

ROOFING KEYNOTES - ALTERNATES

- R1 PROVIDE AND INSTALL NEW ROOF TOP UNIT INCLUDING ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS. PROVIDE NEW MECHANICAL EQUIPMENT CURBS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- R2 PROVIDE FULL REPLACEMENT MOD BIT ROOF SYSTEM, ROOFING SYSTEM #1.
- R3 PROVIDE NEW MOD BIT OVERBUILD ROOF SYSTEM, ROOFING SYSTEM #2.
- R4 PROVIDE NEW RESTORATION COATING OVER EXISTING EPDM MEMBRANE (20 YEAR WARRANTY). REFER TO SPECIFICATIONS FOR MORE INFORMATION. STRICTLY FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS IN ORDER TO ISSUE A WARRANTY. ROOFING SYSTEM #3.

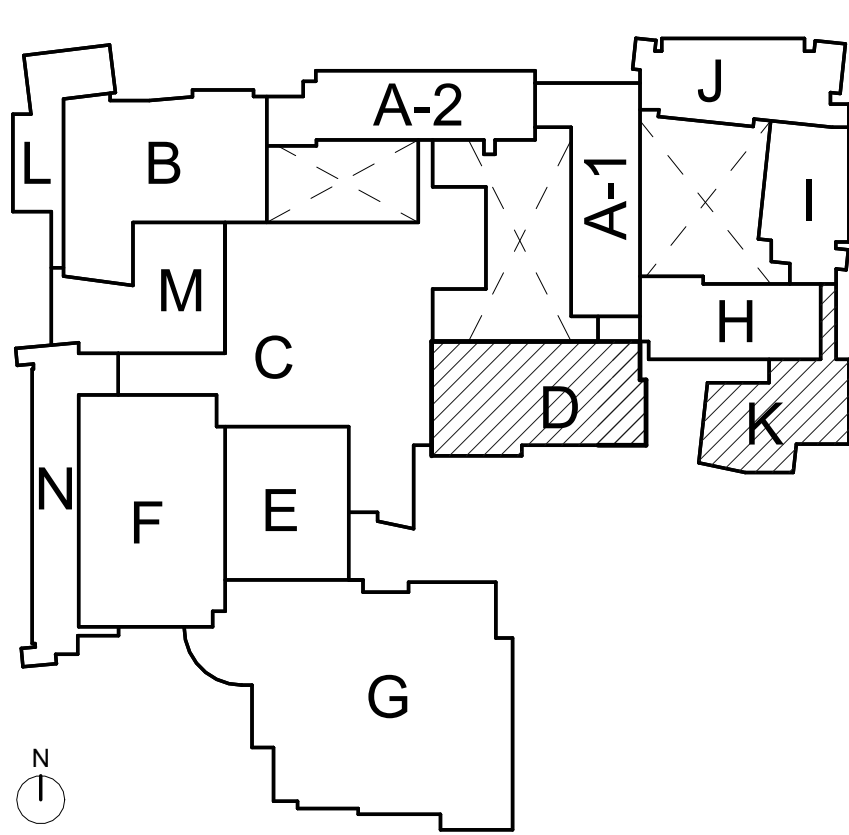
NEW ROOF CONSTRUCTION

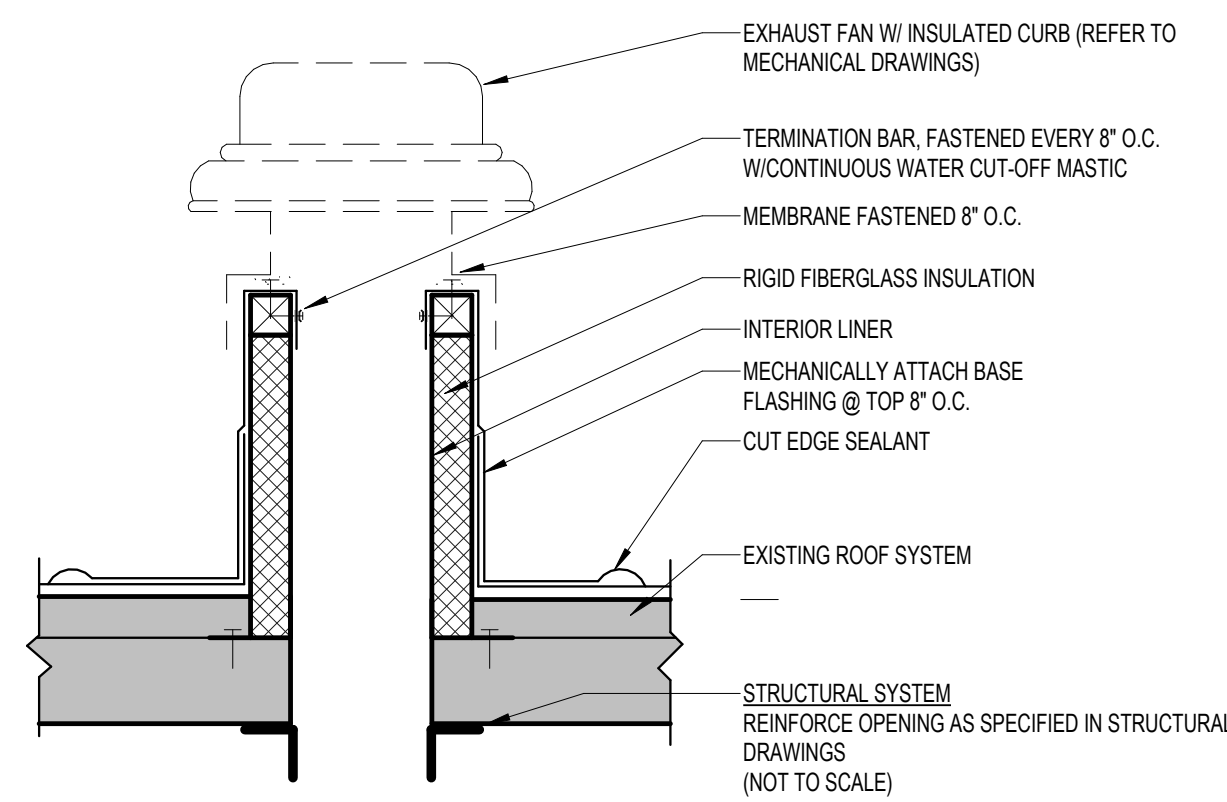
- AREA D
 - ROOF 24 AREA: 20,000 SF. - ROOF SYSTEM #1 - (FULL REPLACEMENT MOD BIT) - ALTERNATE #03
 - ROOF 25 AREA: 3,800 SF. - ROOF SYSTEM #1 - (FULL REPLACEMENT MOD BIT) - ALTERNATE #03
- AREA K
 - ROOF 16 AREA: 3,800 SF. - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #05B
 - ROOF 17 AREA: 2,000 SF. - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #05B
 - ROOF 19 AREA: 8,200 SF. - ROOF SYSTEM #3 - (EPDM COAT) - ALTERNATE #05C
 - ROOF 20 AREA: 1,800 SF. - ROOF SYSTEM #2 - (MOD BIT) - ALTERNATE #05B

ALTERNATES

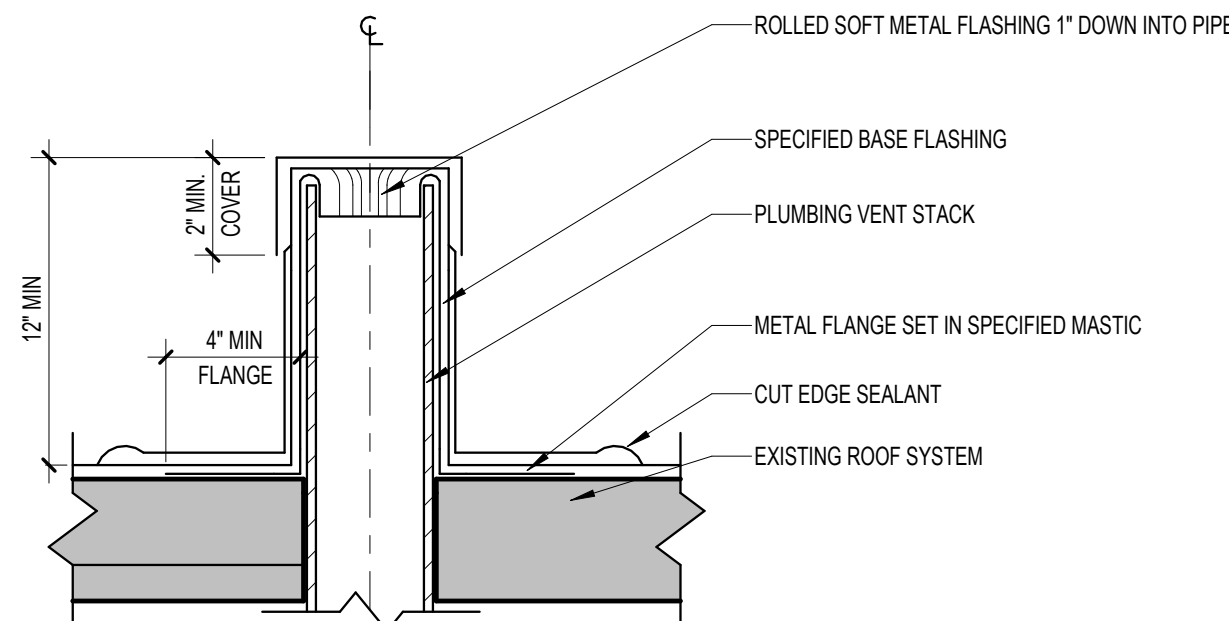
- ALTERNATE #01 - AREA D CHIMNEY REMOVAL: DEMOLISH EXISTING CHIMNEY DOWN TO GRADE. PREP AREA TO RECEIVE NEW ASPHALT TO MATCH THE SURROUNDING CONDITIONS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION. DEMOLISH EXISTING ADJACENT MAINTENANCE YARD. IF ALTERNATE IS TO BE ACCEPTED, CHIMNEY IS TO BE CAPPED WITH METAL PLATE AND ANY OPENINGS LEFT IN CHIMNEY MASONRY FROM FLEE DUCT REMOVAL ARE TO BE PATCHED TO MATCH SURROUNDING CONDITIONS.
- ALTERNATE #02 - AREA G FIELD HOUSE RTU REPLACEMENT: REMOVE AND REPLACE FIVE (5) EXISTING ROOF-TOP UNITS ON THE ROOF OF THE FIELD HOUSE.
- ALTERNATE #03 - AREA D ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOFING SYSTEM AT ROOF SECTION 24, AND BALLASTED EPDM ROOFING SYSTEM AT ROOF SECTION 25. REMOVE EXISTING ANNOUNCED VENT PIPES AND ASSOCIATED SUPPORTS IN THEIR ENTIRETY. PATCH AND REPAIR ROOF SYSTEM TO MATCH SURROUNDING CONDITIONS.
- ALTERNATE #04A - AREA A-1 ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM AT ROOF SECTION 17.
- ALTERNATE #04B - AREA A-1 ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOFING SYSTEM AT ROOF SECTION 17.
- ALTERNATE #05A - AREA A & AREA J ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM OVER THE OFFICE AREAS, SPECIFICALLY AT ROOF SECTIONS 8, 10, 11, 13, AND 15.
- ALTERNATE #05B - AREA K ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING BALLASTED EPDM ROOFING SYSTEM OVER THE OFFICE AREAS, SPECIFICALLY AT ROOF SECTIONS 16, 17, AND 20.
- ALTERNATE #05C - AREA J, AREA I & AREA K ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM STANDING SEAM ROOFING SYSTEM AT ROOF SECTIONS 9, 14, AND 19.
- ALTERNATE #06A - AREA G ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOFING SYSTEM AT ROOF SECTIONS 36, 37, AND 40.
- ALTERNATE #06B - AREA G ROOFING REPLACEMENT: REMOVE AND REPLACE EXISTING ADHERED EPDM ROOF SYSTEM OVER THE BARREL ROOF AT ROOF SECTION 39.
- ALTERNATE #07 - AREA D ALTERNATE AREAS:
- ALTERNATE #08 - TUNNEL LIGHTING:

KEY PLAN

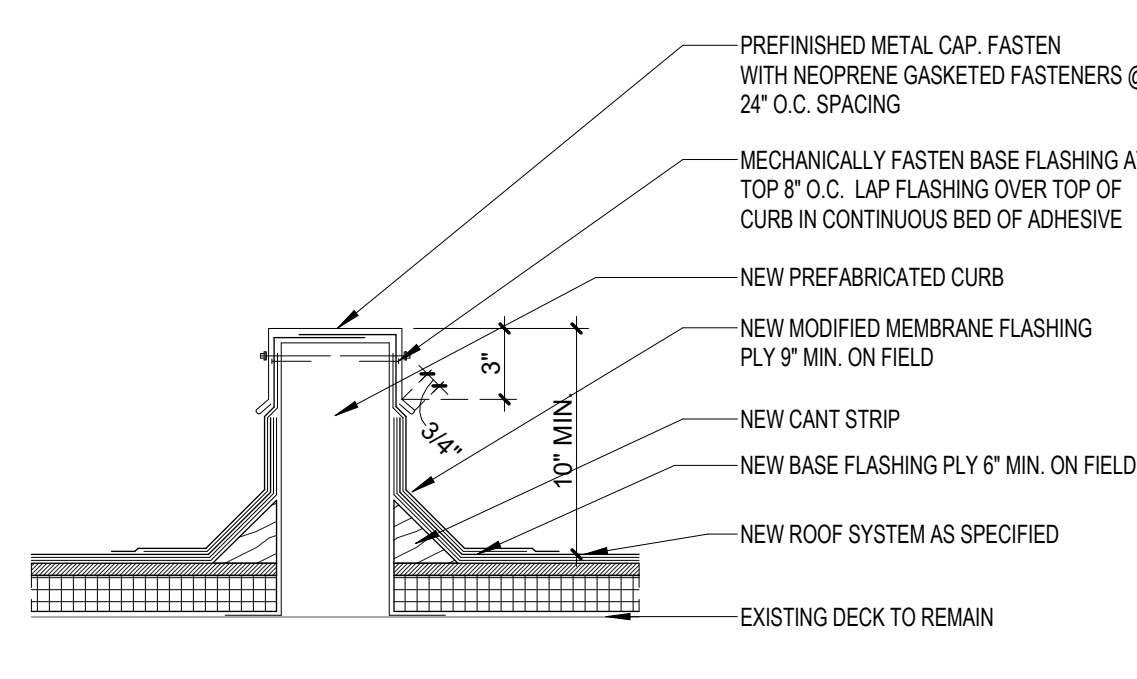




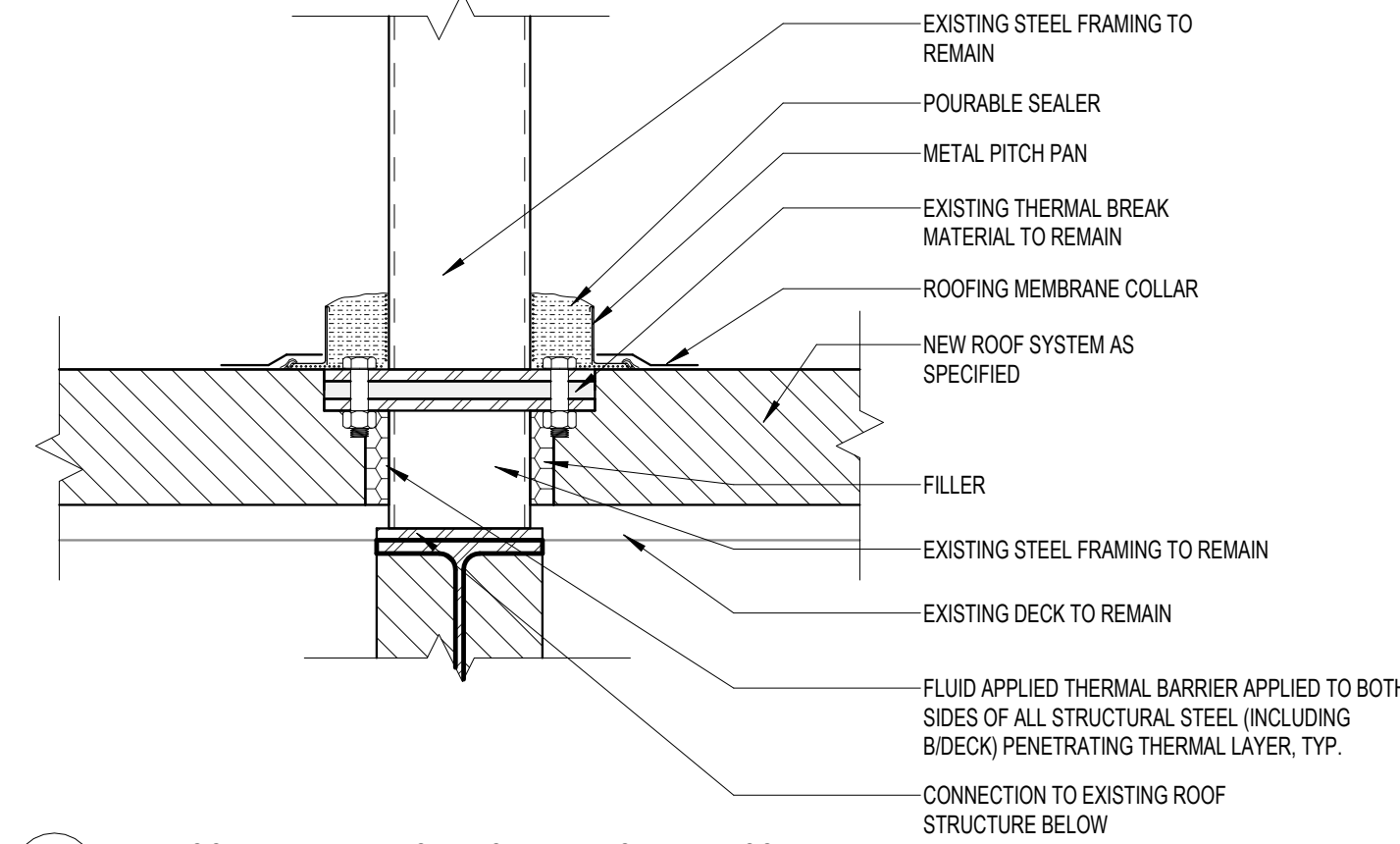
1 TYPICAL EXHAUST FAN ROOF DETAIL
1 1/2" = 1'-0"



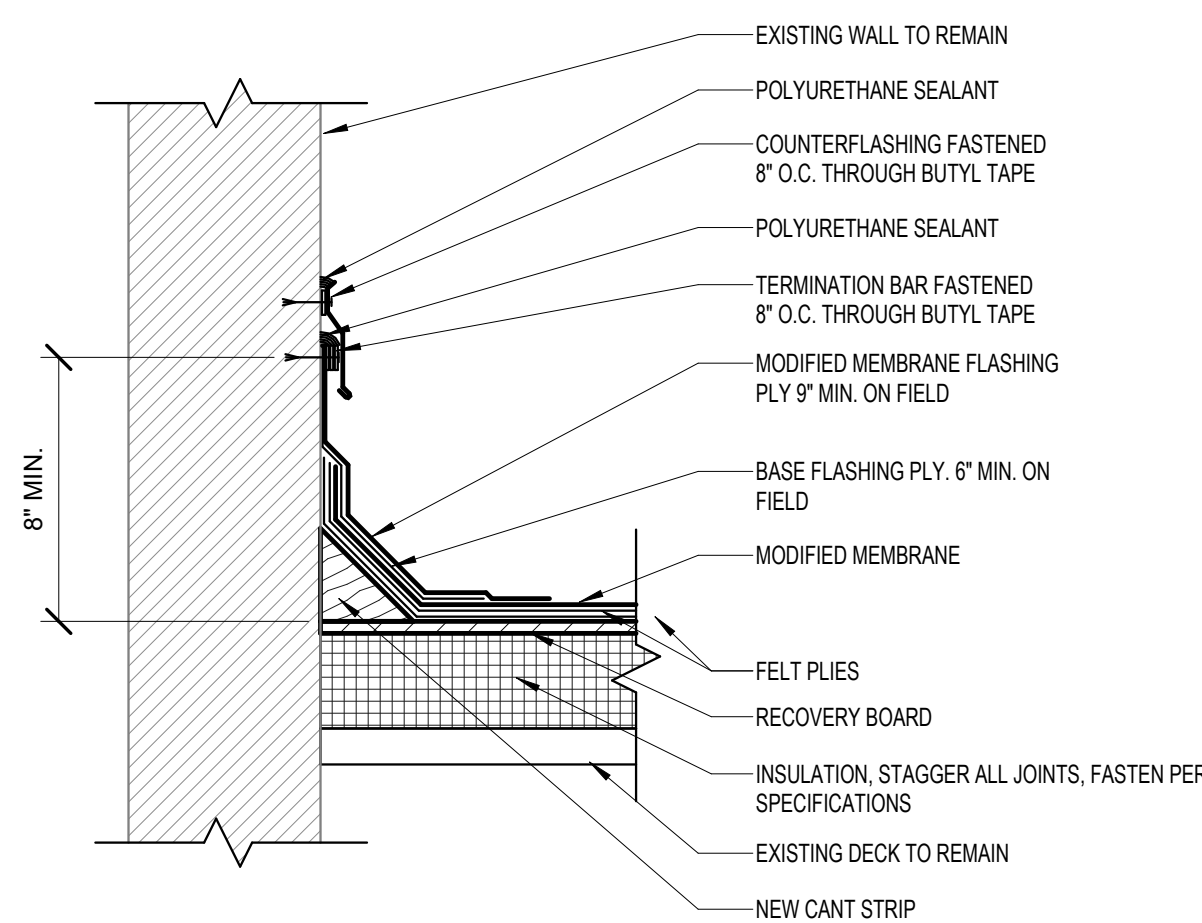
2 TYPICAL PLUMBING VENT DETAIL
1 1/2" = 1'-0"



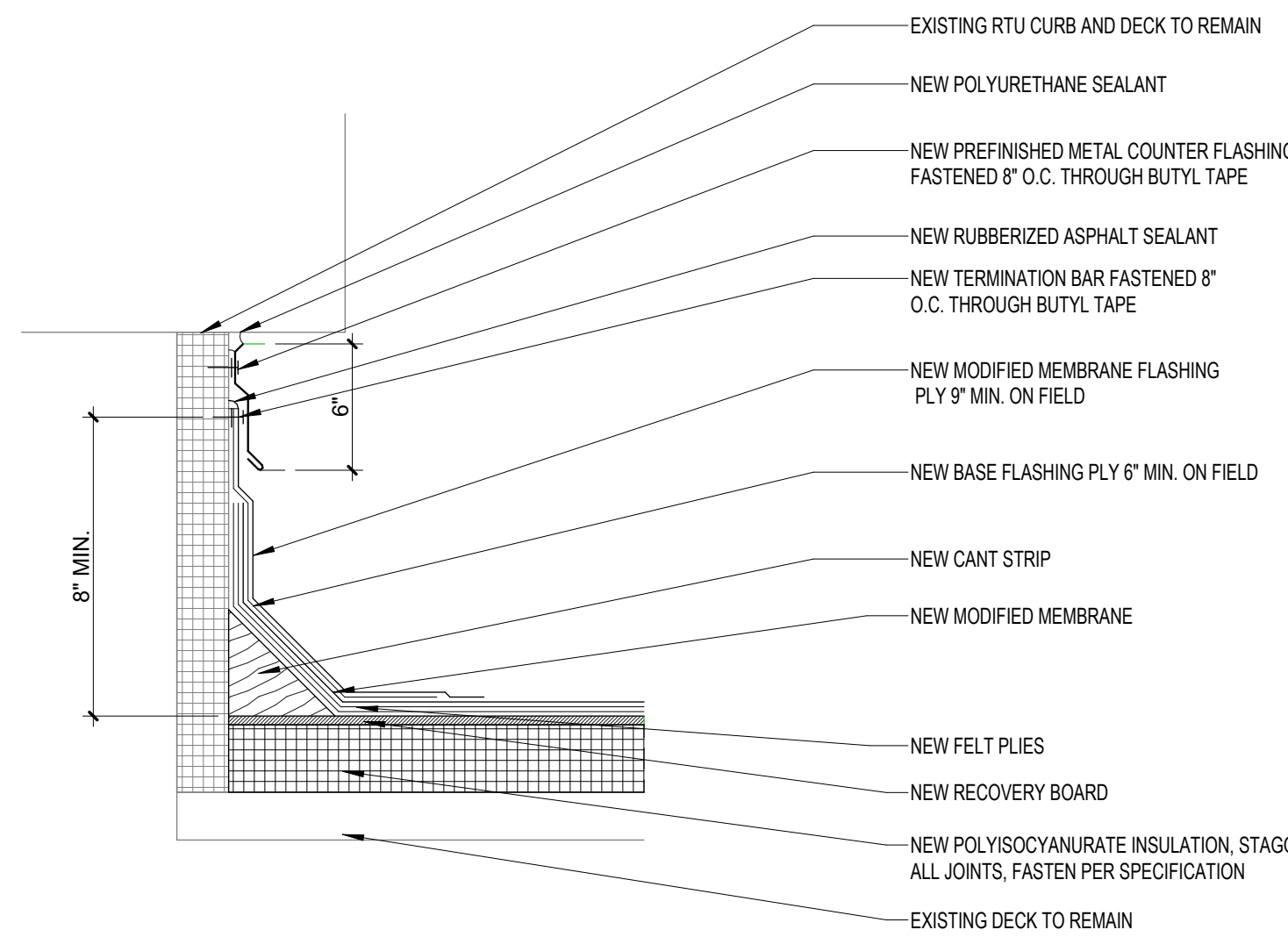
3 TYP. ROOF DETAIL AT EQUIPMENT SUPPORT
1 1/2" = 1'-0"



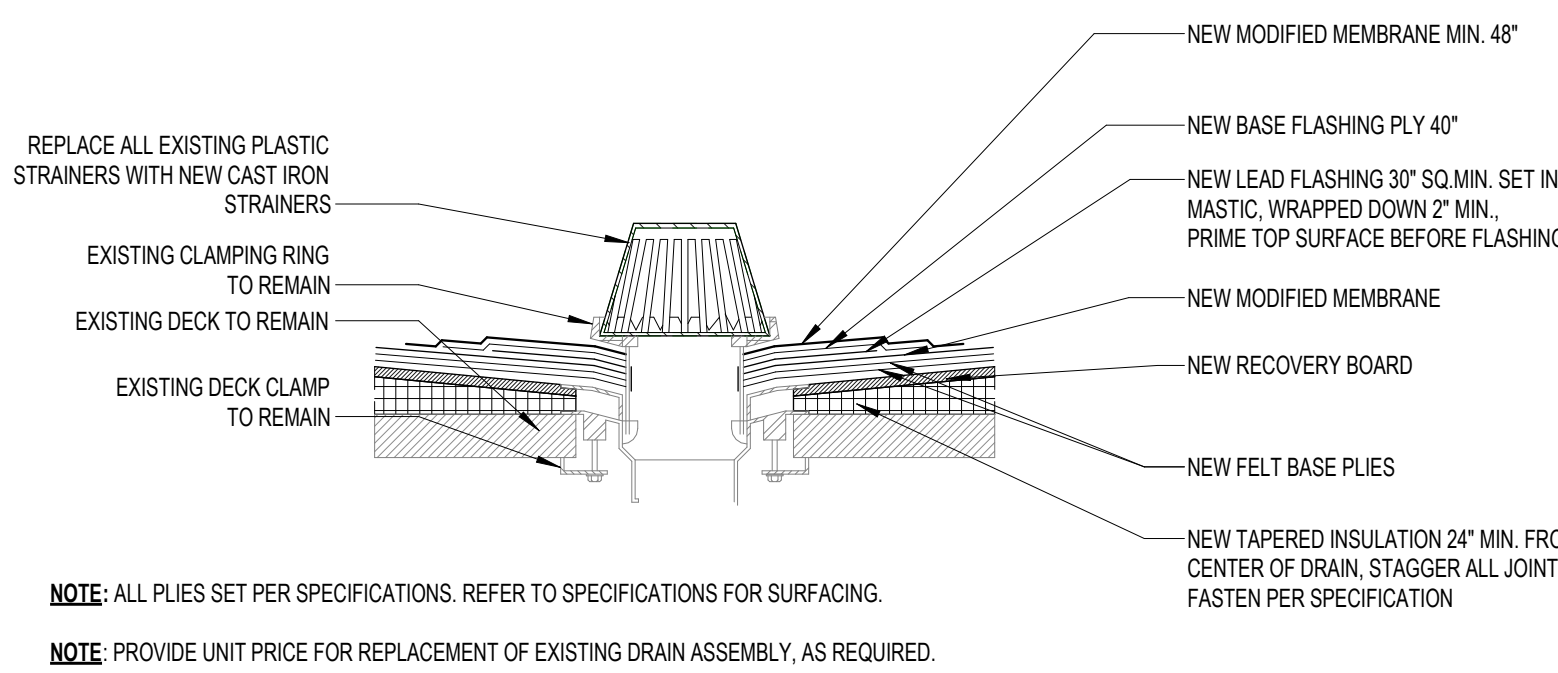
4 TYP. ROOF DETAIL AT MECHANICAL PLATFORM PIPE COLUMN
1 1/2" = 1'-0"



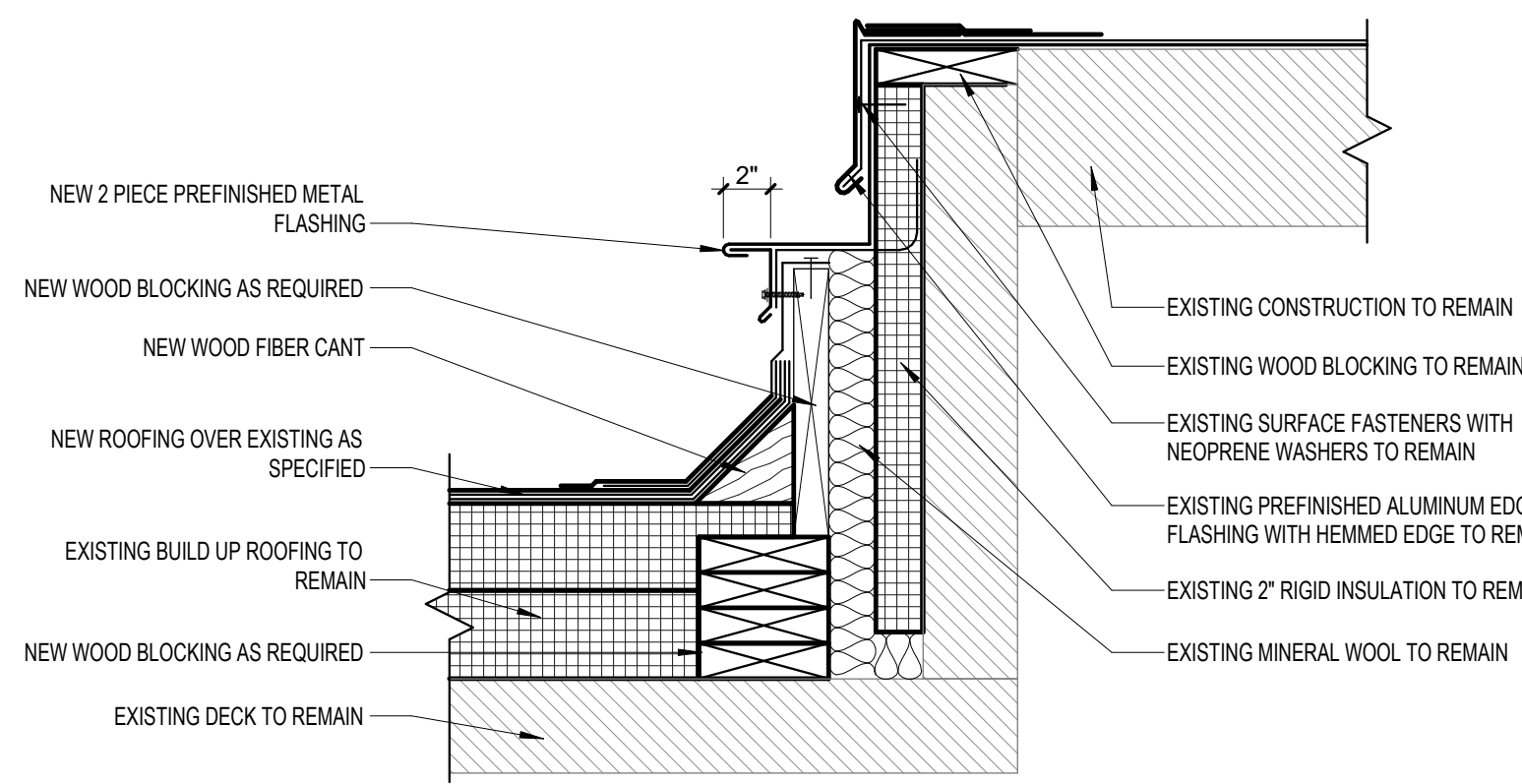
5 TYP. ROOF DETAIL AT BASE FLASHING
1 1/2" = 1'-0"



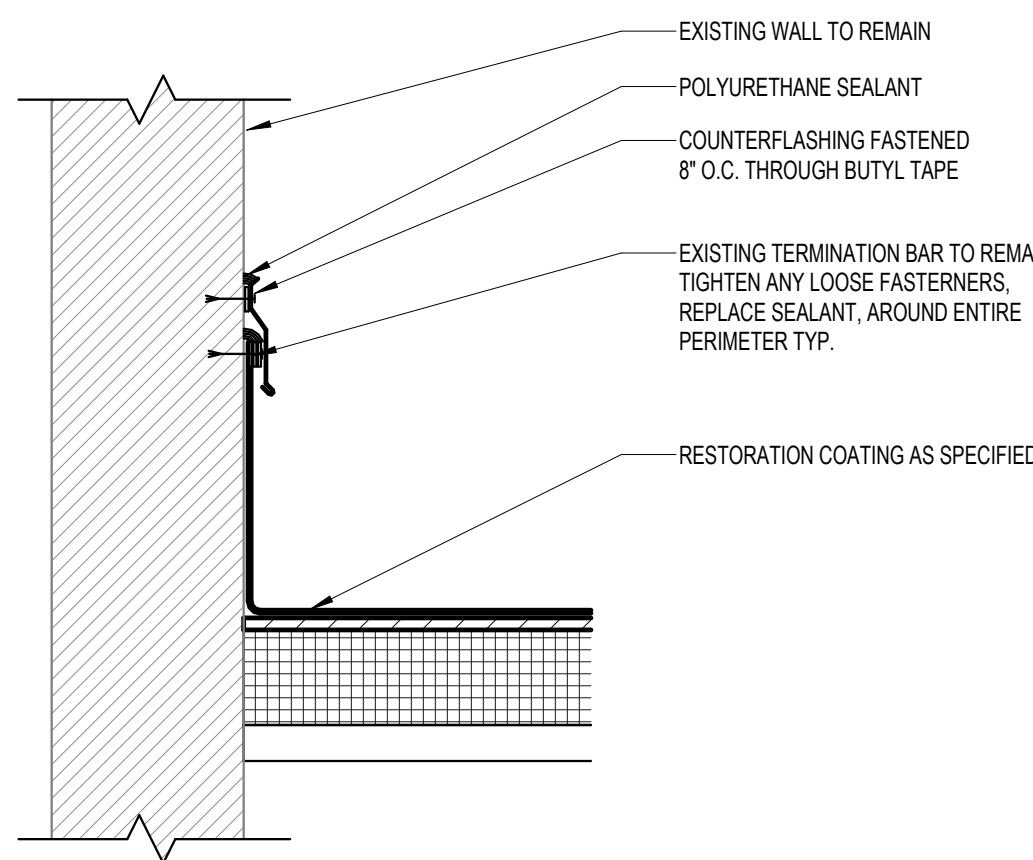
6 TYPICAL ROOF DETAIL AT EQUIPMENT CURB
1 1/2" = 1'-0"



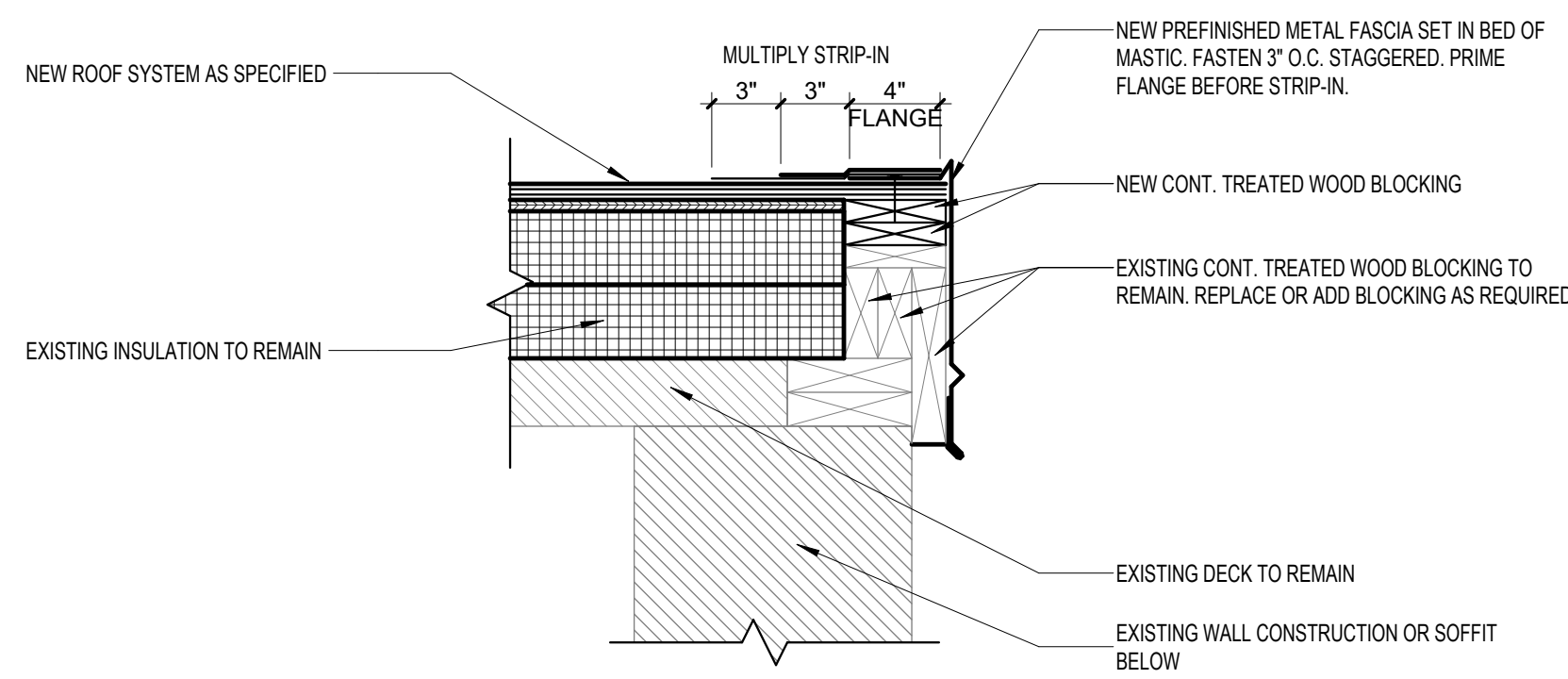
7 TYPICAL ROOF DETAIL AT ROOF DRAIN
1 1/2" = 1'-0"



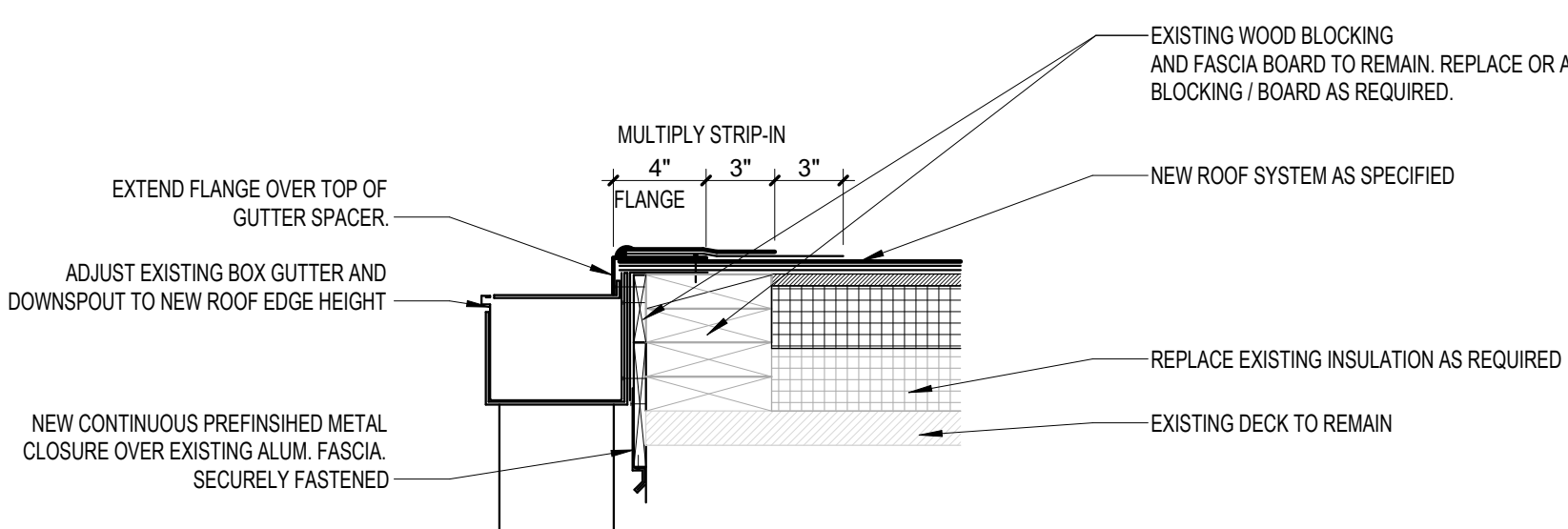
8 TYPICAL ROOF DETAIL AT EXPANSION JOINT
1 1/2" = 1'-0"



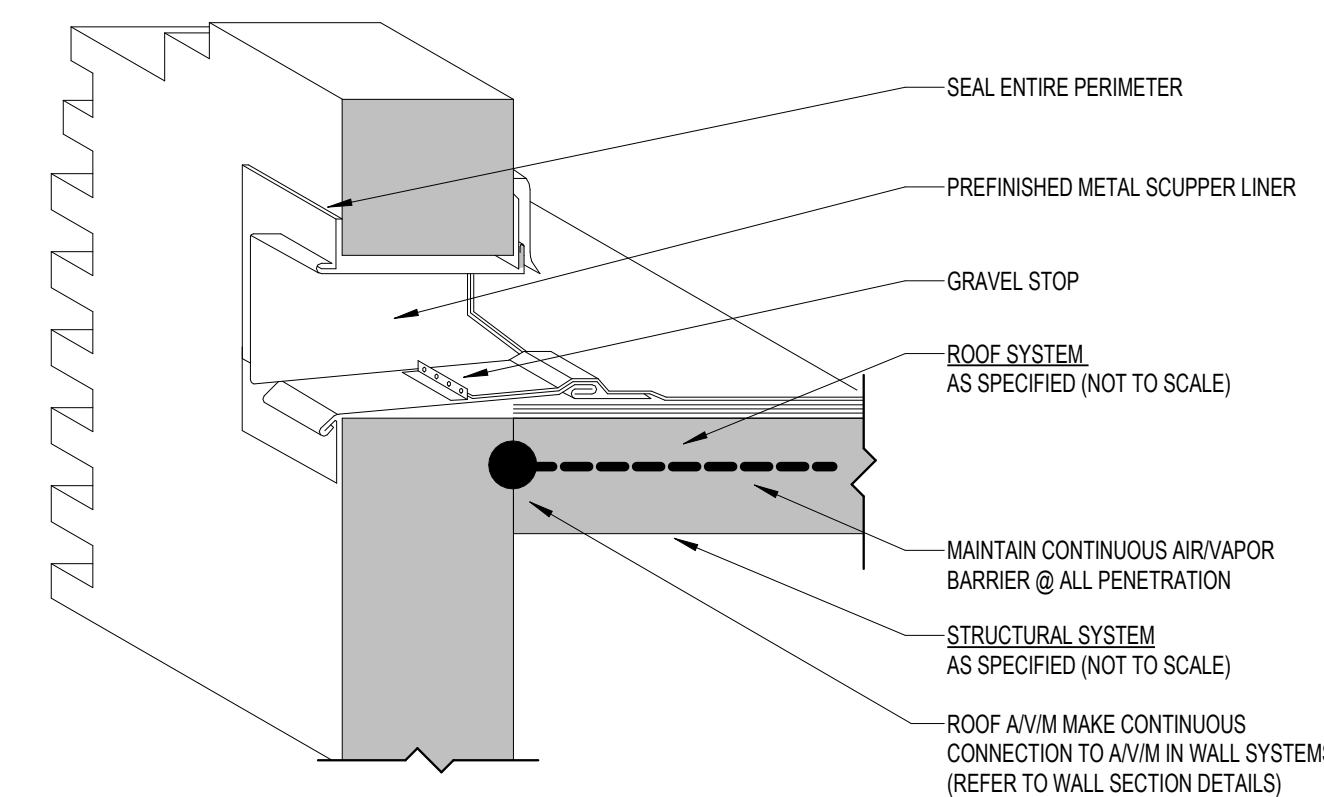
9 TYP. ROOF DETAIL AT BASE FLASHING
1 1/2" = 1'-0"



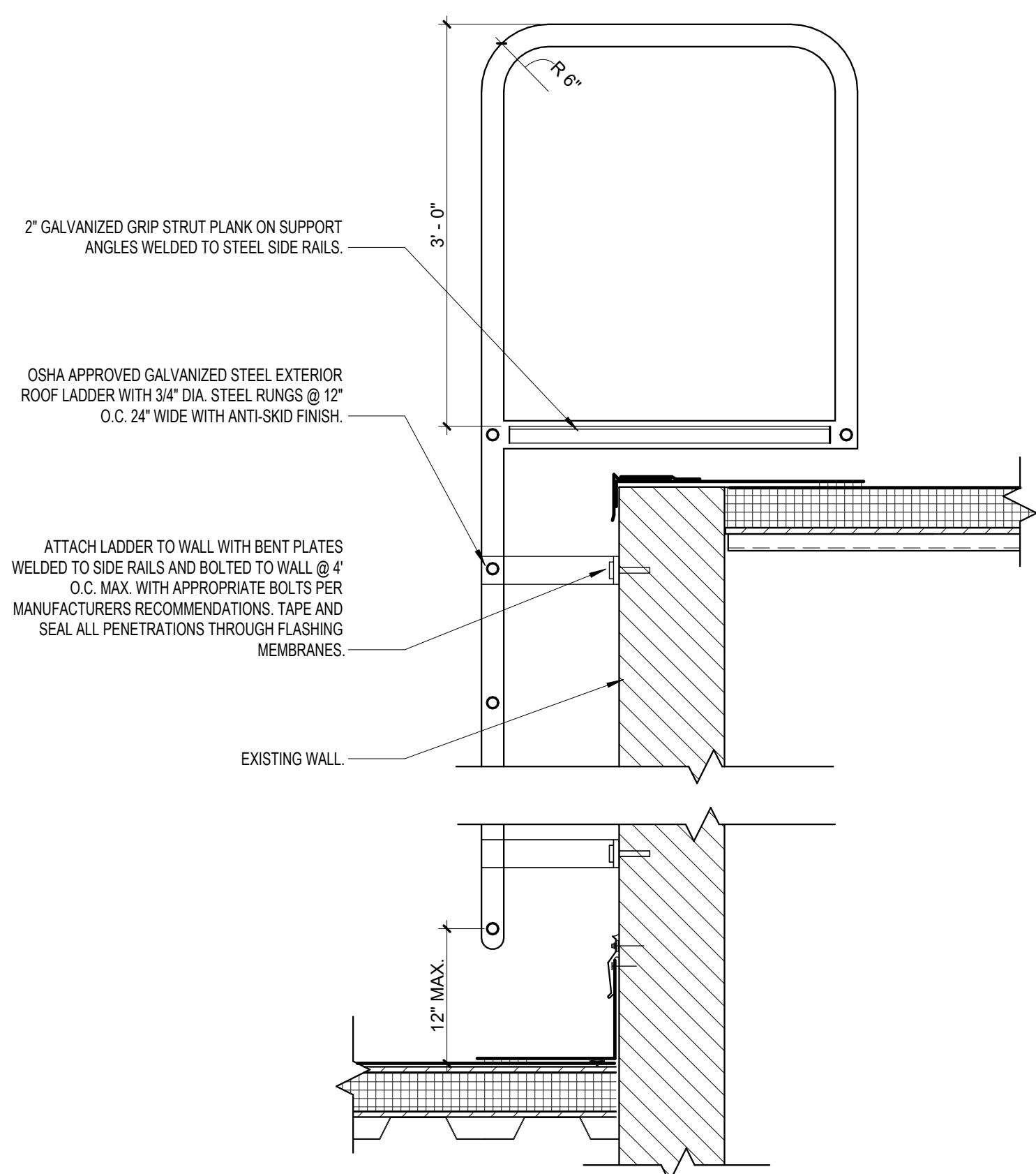
10 ROOF DETAIL AT METAL FASCIA
1 1/2" = 1'-0"



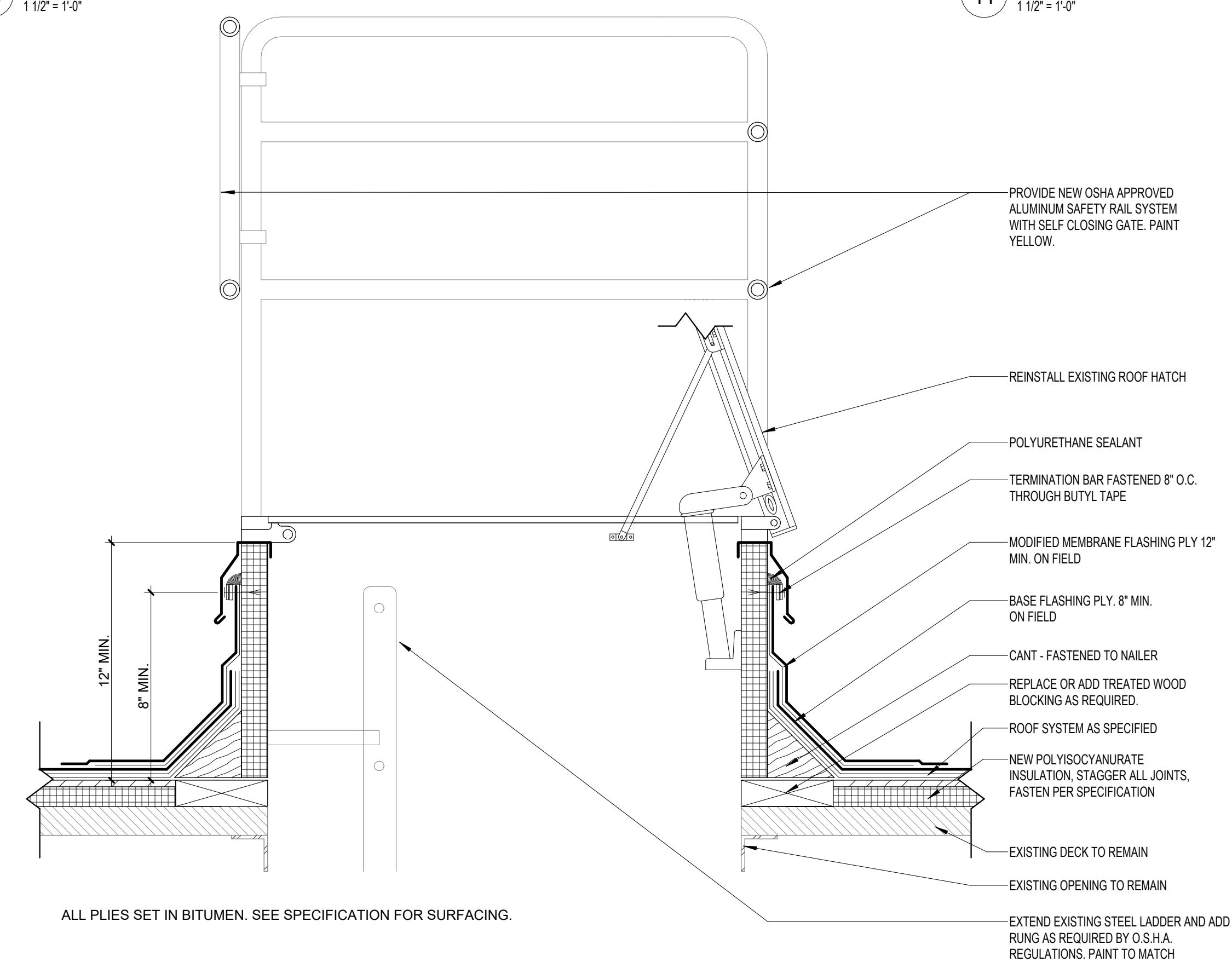
11 ROOF DETAIL AT GUTTER
1 1/2" = 1'-0"



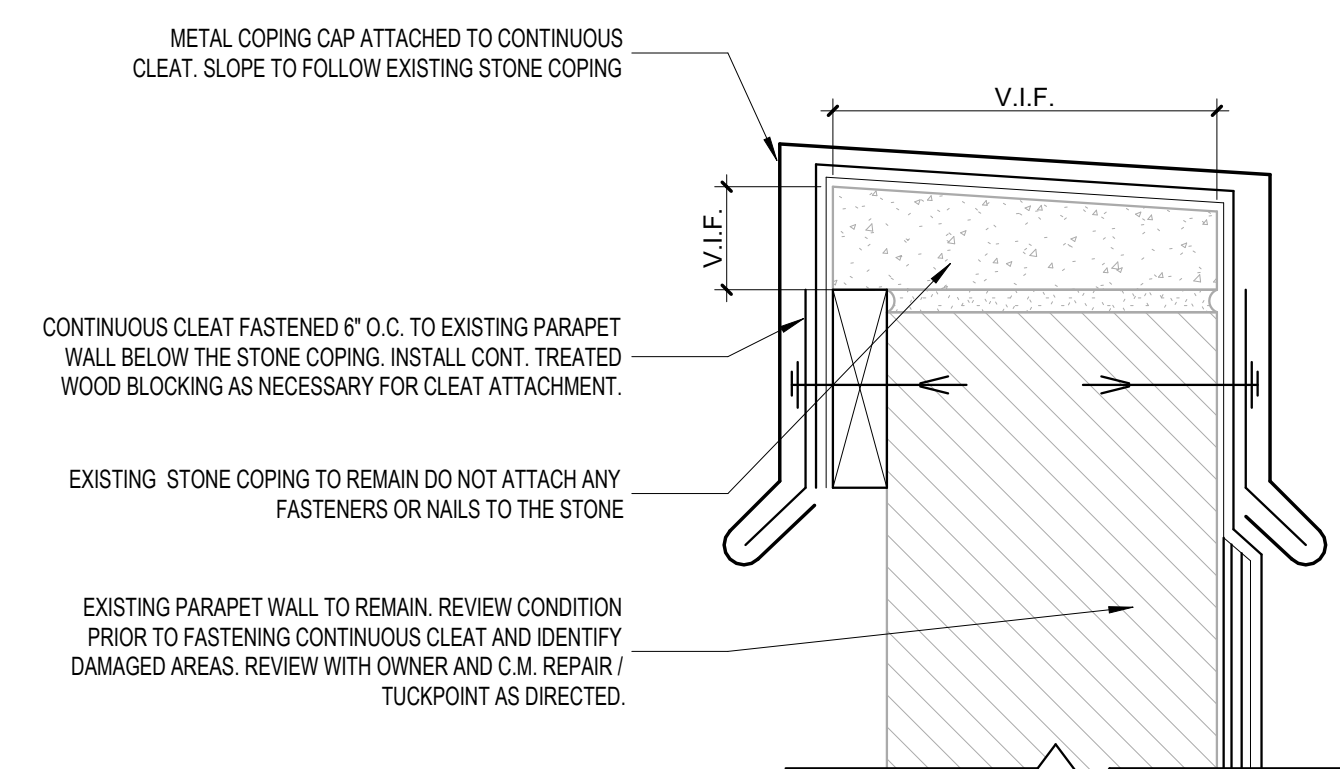
12 SCUPPER DETAIL -MODBIT
3\"/>



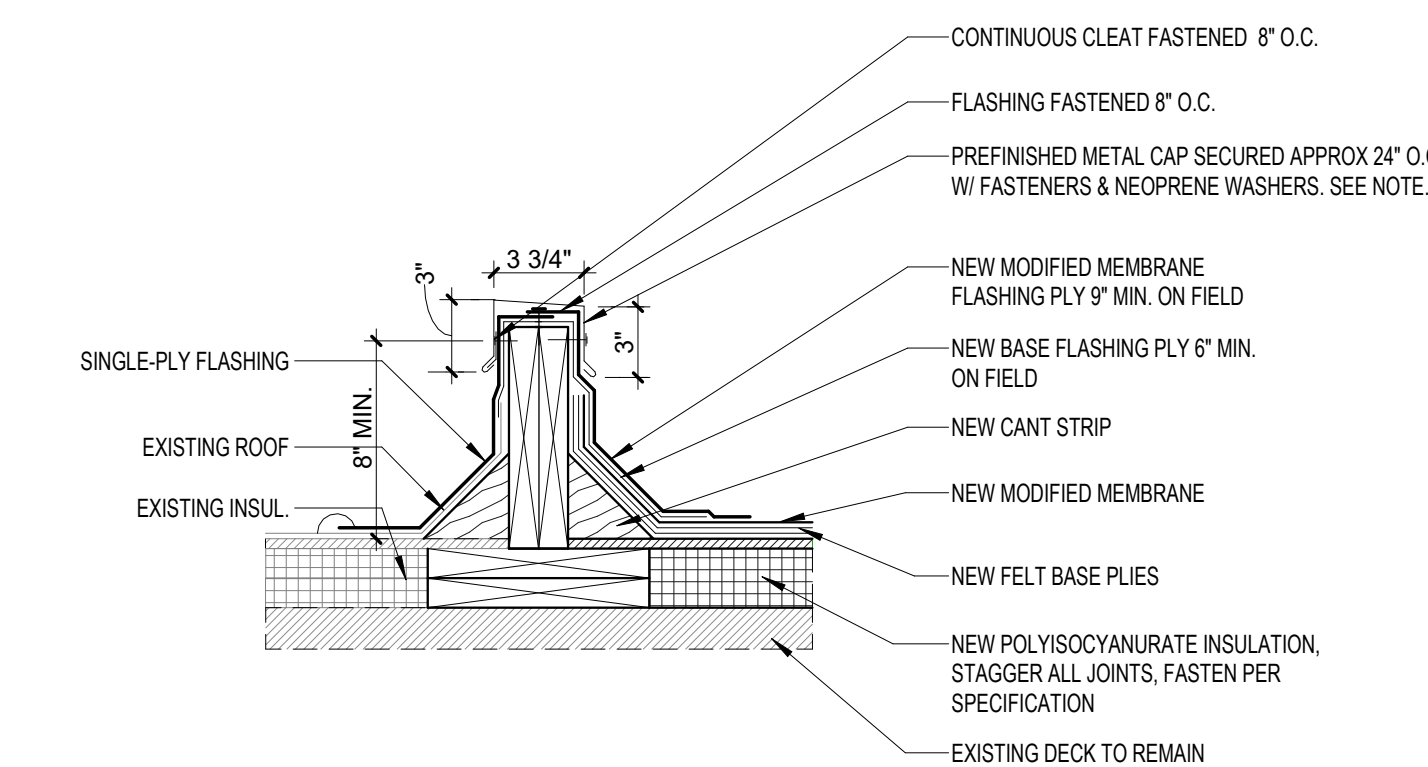
13 ROOF LADDER DETAIL
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14 TYPICAL ROOF HATCH DETAIL
1 1/2" = 1'-0"



15 METAL COPING CAP DETAIL
1 1/2" = 1'-0"



16 ROOF AREA DIVIDER
1 1/2" = 1'-0"

B3010.90

ARCHITECT:

CONSULTANTS:

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CC JOB NUMBER 26-1012

DATE 10.01.2026

REVISIONS:

#	Description	Date
3	ADDENDUM 04	10.19.2026

DRAWING TITLE:

ROOF DETAILS

East Aurora High School - 2027 Mechanical Improvements Project #261012
Request For Information (RFI) Log



RFI #	CONTRACTOR	CONTRACTOR'S QUESTION	DRAWING REF.	SPEC REF.	DATE REC'D.	DATE RETURNED	RESPONSE
1	Henry Bros	On drawing D-A3.41 in areas of exposed ceilings such as Boiler Room 145, Welding 147, & Wood Shop 149, are all M.E.P. and structural steel modifications to be painted? There is no indication of painting and new or modified items. None of the existing to remain duct is currently painted. Please clarify.	D-A3.41		10/16/2026	10/19/2026	All M.E.P components in exposed ceilings and structural steel modifications are to remain unpainted.
2	Henry Bros	Are there any M.E.P. components in the maintenance shed under note D-19 on drawing D-A1.41? none are shown on the M.E.P. plans. Please clarify since this scope was added.	D-A1.41		10/16/2026	10/19/2026	Alternate #01 does not include any disconnect of existing utility connections inside the maintenance shed.
3	Henry Bros	In area A2 on drawing M2.2 there is new exhaust ductwork being removed and replaced at the east and west ends of the corridor. The entire 2nd floor corridor ceiling has fire sprinkler piping, but there is no 2nd floor plan on drawing FP2.1 indicating coverage. What sprinkler work is required for this work.	M2.2 / FP2.1		10/16/2026	10/19/2026	Modify existing sprinkler piping and heads as required to remove and install new ductwork. Reroute any existing sprinkler pipe as required.
4	Henry Bros	Drawing A2-M2.2 indicates (2) new 42" x 54" louvers being installed in the existing aluminum storefront, but the window mullions are not 42" wide. Please clarify what removal and replacement of the aluminum storefront is needed to install the new louvers. On the interior of the window frame is an electric conduit serving a stock market monitor screen. Please clarify what removal and reinstallation is required.	A2-M2.2		10/16/2026	10/19/2026	Storefront system is to remain. All louver work happens above ceiling. Refer to Detail 2/A2-M2.2. Existing insulated panels are to be replaced with louvers as shown. Remove and reinstall the electric conduit as needed to perform louver work.
5	Henry Bros	Provide a specification for all roof replacement work.			10/16/2026	10/19/2026	Roofing Specifications provided in Addendum 04.
6	Henry Bros	Provide a specification, manufacturer, product, and size for the carpet on drawing C-A2.31.	C-A2.31		10/16/2026	10/19/2026	Floor finish has been changed from carpet tile (CPT-1) to luxury vinyl tile (LVT-1). See revised drawings. LVT Specification Section provided in Addendum 04. LVT-1 - Manufacturer: J+J Flooring, Style: Classics V5000, Color: Archetype 1001, Size: 9"x48".

7	Henry Bros	On drawing B-A5.20 the (4) new louvers are shown with different head height elevations and are all 60" tall per B-M2.2 & B-M2.3. All of the existing louvers have the same head elevation. Note 1 calls for the existing lintel to remain. We checked the existing dimensions of the louvers and the new louvers are larger, which would require all the masonry openings to be modified and have new lintels installed, but no steel work is indicated. Please clarify what masonry and steel work is required for the new louver installation.	B-A5.20	10/16/2026	10/19/2026	Masonry openings are to be modified as required for the installation of the new louvers. Provide new steel lintels, backer rod, and caulk around modified openings.
8	Henry Bros	Drawing C-A2.31 has note F7 to infill the opening where the door was removed to patch the existing finishes. Does the school have any attic stock on the wood paneling? What is the wall composition? Is it fire rated? Please claify.	C-A2.31	10/16/2026	10/19/2026	School district does not have attic stock for wood paneling. Provide wood paneling to match existing dimensions and detailing. Wood paneling to be painted to match adjacent finish. Infill masonry wall interior, and provide new gyp furring wall as indicated. Office 115G does not require fire rating.
9	Henry Bros	Are there any duct/pipe openings that need to be infilled with concrete from the tunnel to the 1st floor? There are not structural details showing how they are to be infilled. Please provide.		10/16/2026	10/19/2026	Yes, refer to the Mechanical Tunnel Demolition Plans and Mechanical Tunnel New Work Plans for the approximate pipe penetration locations through the floor. The concrete floor is to be infilled with concrete where pipes are to be removed if the opening is not being utilized. Floor finishes to be patched to match adjacent existing finishes to remain.