# ROOF REPLACEMENT JOHN ADAMS ELEMENTARY SCHOOL

5651 RAYBURN AVENUE ALEXANDRIA, VIRGINIA 22331

PREPARED FOR:

ALEXANDRIA CITY PUBLIC SCHOOLS

1340 BRADDOCK PLACE, SUITE 620 ALEXANDRIA, VIRGINIA 22314 PH: (703) 619-8181 F: (703) 619-8090

## BID SET

John Adams Elementary School

DOCUMENTS PREPARED BY: **RESTORATION ENGINEERING, INC.** 

10503 WEST DRIVE, SUITE A FAIRFAX, VIRGINIA 22030 PH: (703) 272-7787 F: (703) 272-7796

P John Adams Elementary School



REGIONAL MAP



SATELLITE IMAGE

### **GENERAL NOTES:**

- 1. THE REPAIRS DETAILED IN THESE CONSTRUCTION DRAWINGS WERE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE, THE 2015 INTERNATIONAL PLUMBING CO AND THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
- 2. THE "WORK" INCLUDES REMOVAL OF THE EXISTING LOW SLOPE ROOFING SYSTEMS AND ASSOCIATED FLASHINGS ON SPECIFIED ROOF SECTIONS. THE "WORK" ALSO INCLUDES MISCELLANEOUS REPAIRS TO BREACADE
- 3. THE "WORK" DOES NOT INVOLVE MODIFICATION TO, OR INSTALLATION OF ADDITIONAL ELECTRICAL AND/O MECHANICAL APPURTENANCES OTHER THAN RELOCATION OF EXISTING ELECTRICAL/REFRIGERATION LINES SERVICING VARIOUS SMALL HEAT PUMPS.
- 4. PLUMBING WORK INCLUDES REPLACEMENT OF EXISTING ROOF DRAINS AND INSTALLATION OF NEW DRAINS RELOCATION OF NUMEROUS DRAIN OPENINGS TO FACILITATE DRAINAGE, INSTALLATION OF NEW DRAIN LIN AND TIE INS TO EXISTING DRAIN LINES AND, ELIMINATION OF EXISTING DRAINS AND CAPPING OF ABANDONED DRAIN LINES AT ISOLATED LOCATIONS.
- 5. CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS IN ACCORDANCE WITH LOCAL JUDICIAL AUTHORITIES PRIOR TO COMMENCEMENT OF "WORK".
- 6. CONTRACTOR TO COORDINATE THE NECESSARY INSPECTIONS AS REQUIRED BY LOCAL JUDICIAL AUTHORITIES.

### **CODE INFORMATION:**

- 1. BUILDING USE GROUP: E (IBC 2015, SECTION 305.1)
  2. CONSTRUCTION TYPE: TYPE 24 (IBC 2015, TABLE )
- CONSTRUCTION TYPE: TYPE 2A (IBC 2015, TABLE )
   FIRE CLASSIFICATION: CLASS \_ (IBC 2015, TABLE )
- 4. THERMAL ROOF ENVELOPE REQUIREMENTS: R-30ci (IECC 2015, TABLE C402.1.3)
- 5. FIRE SUPPRESSION SYSTEM: YES
- 6. SQUARE FOOTING OF ROOFING BEING REPLACED: 103,150 SF

### PHASING NOTES:

- 1. THE "WORK" SHALL BE PHASED OVER TWO CONSTRUCTION PERIODS:
  1.1. PHASE I SUMMER 2020
  1.2. PHASE II SUMMER 2021
  2. THE CONTRACTOR MUST COMPLETE ALL ASPECTS OF THE WORK,
- AREAS TO BE CONSIDERED "COMPLETE".

  3. THE CONTRACTOR MUST COMPLETE ALL PHASE I WORK STARTED,
- WITHIN A SPECIFIC SECTION OF ROOFING, DURING PHASE I.

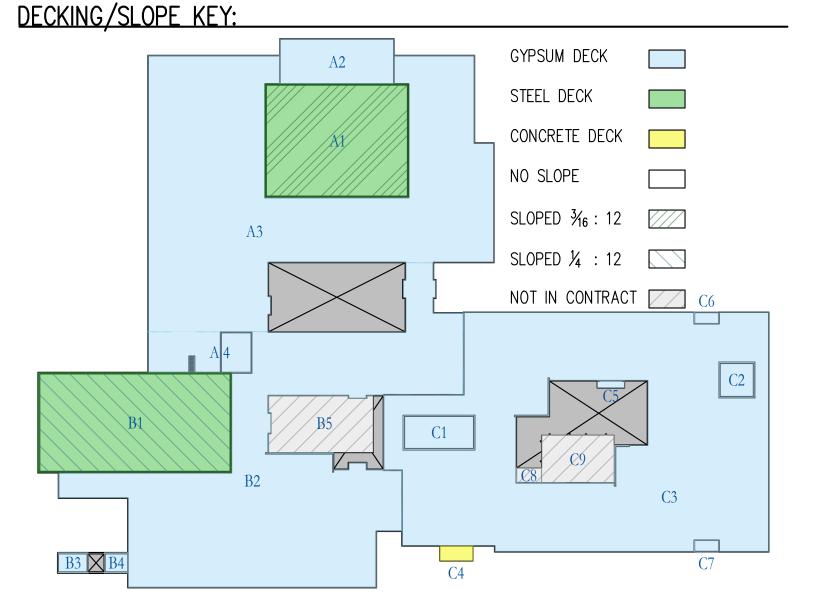
  4. THE CONTRACTOR'S SCHEDULE OF VALUES SHALL BE SUBDIVIDED BY ROOF AREAS IN ORDER TO FACILITATE REVIEW OF THE CONTRACTOR'S
- 5. THE CONTRACTOR WILL BE GRANTED PARTIAL RELEASE OF RETAINAGE FOR ALL WORK AREAS COMPLETED DURING PHASE I PROVIDED THAT ALL PUNCH LIST ITEMS HAVE BEEN ADDRESSED.

6. PROVIDE WARRANTIES FOR EACH COMPLETED PHASE OF THE

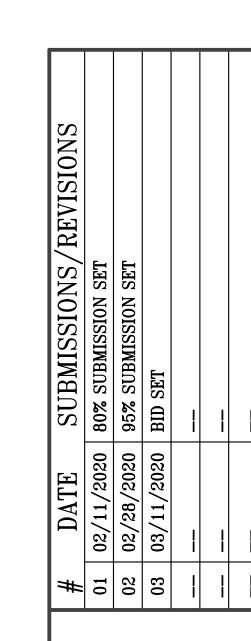
PROJECT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR OF ALL ROOFING SYSTEMS (NEW AND OLD) FOR THE NON CONSTRUCTION PERIOD BETWEEN PHASES I AND II.

# PHASING KEY: A2 PHASE II NOT IN CONTRACT A3 A4 B2 C1 C2 C7



 SHEET I	NDEX:	
SHEET #  1   OF 14 2   OF 14 3   OF 14 4   OF 14 5   OF 14 6   OF 14 7   OF 14 8   OF 14 9   OF 14 10   OF 14 11   OF 14 12   OF 14 13   OF 14 14   OF 14	SHEET C-1.0 A-1.0 A-1.1 A-1.2 A-1.3 A-5.1 A-5.2 A-5.3 A-5.4 A-5.5 A-5.5 A-5.6 A-5.7 A-5.8	DESCRIPTION COVER SHEET DEMOLITION PLAN PARTIAL ROOF PLAN PARTIAL ROOF PLAN PARTIAL ROOF PLAN ROOF DETAILS SOMETRIC DETAILS ISOMETRIC DETAILS



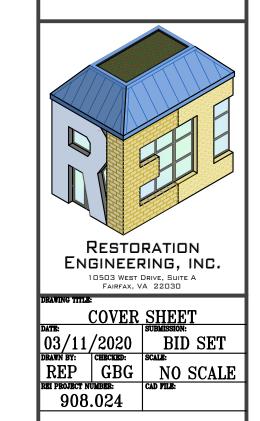
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N ADAMS ELEMENTARY SCHOO

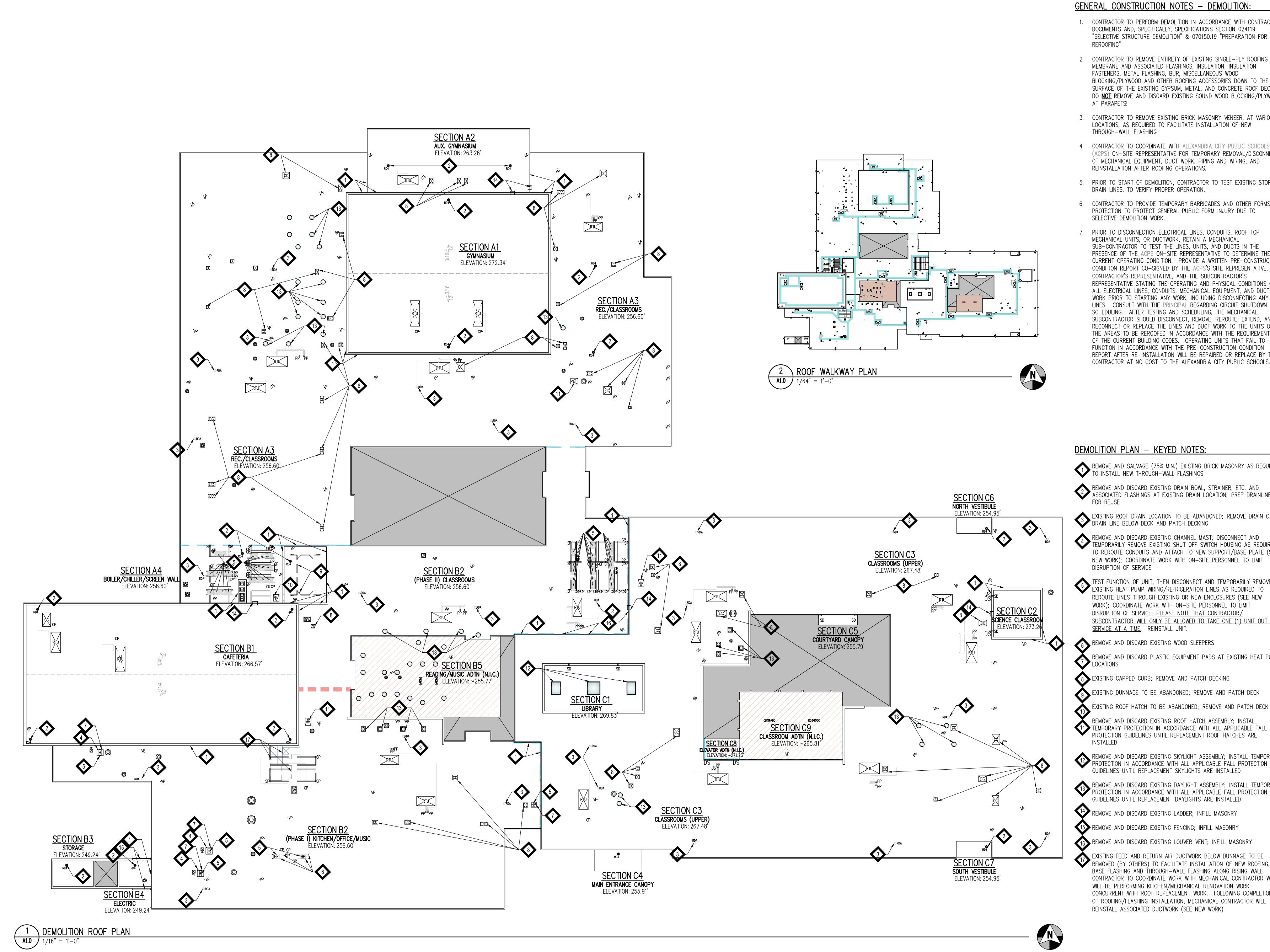
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5651 RAYBURN AVENUE

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1 OF 14

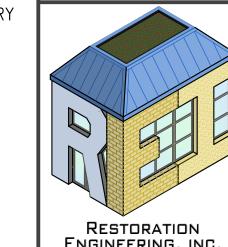


### GENERAL CONSTRUCTION NOTES — DEMOLITION:

- 1. CONTRACTOR TO PERFORM DEMOLITION IN ACCORDANCE WITH CONTRACT DOCUMENTS AND, SPECIFICALLY, SPECIFICATIONS SECTION 024119 "SELECTIVE STRUCTURE DEMOLITION" & 070150.19 "PREPARATION FOR REROOFING"
- 2. CONTRACTOR TO REMOVE ENTIRETY OF EXISTING SINGLE-PLY ROOFING MEMBRANE AND ASSOCIATED FLASHINGS, INSULATION, INSULATION FASTENERS, METAL FLASHING, BUR, MISCELLANEOUS WOOD BLOCKING/PLYWOOD AND OTHER ROOFING ACCESSORIES DOWN TO THE SURFACE OF THE EXISTING GYPSUM, METAL, AND CONCRETE ROOF DECKS. DO **NOT** REMOVE AND DISCARD EXISTING SOUND WOOD BLOCKING/PLYWOOD AT PARAPETS!
- 3. CONTRACTOR TO REMOVE EXISTING BRICK MASONRY VENEER, AT VARIOUS LOCATIONS, AS REQUIRED TO FACILITATE INSTALLATION OF NEW THROUGH-WALL FLASHING
- 4. CONTRACTOR TO COORDINATE WITH ALEXANDRIA CITY PUBLIC SCHOOLS (ACPS) ON-SITE REPRESENTATIVE FOR TEMPORARY REMOVAL/DISCONNECT OF MECHANICAL EQUIPMENT, DUCT WORK, PIPING AND WIRING, AND REINSTALLATION AFTER ROOFING OPERATIONS.
- 5. PRIOR TO START OF DEMOLITION, CONTRACTOR TO TEST EXISTING STORM DRAIN LINES, TO VERIFY PROPER OPERATION.
- 6. CONTRACTOR TO PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT GENERAL PUBLIC FORM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- 7. PRIOR TO DISCONNECTION ELECTRICAL LINES, CONDUITS, ROOF TOP MECHANICAL UNITS, OR DUCTWORK, RETAIN A MECHANICAL SUB-CONTRACTOR TO TEST THE LINES, UNITS, AND DUCTS IN THE PRESENCE OF THE ACPS ON-SITE REPRESENTATIVE TO DETERMINE THE CURRENT OPERATING CONDITION. PROVIDE A WRITTEN PRE-CONSTRUCTION CONDITION REPORT CO-SIGNED BY THE ACPS'S SITE REPRESENTATIVE, THE CONTRACTOR'S REPRESENTATIVE, AND THE SUBCONTRACTOR'S REPRESENTATIVE STATING THE OPERATING AND PHYSICAL CONDITIONS OF ALL ELECTRICAL LINES, CONDUITS, MECHANICAL EQUIPMENT, AND DUCT WORK PRIOR TO STARTING ANY WORK, INCLUDING DISCONNECTING ANY LINES. CONSULT WITH THE PRINCIPAL REGARDING CIRCUIT SHUTDOWN AND SCHEDULING. AFTER TESTING AND SCHEDULING, THE MECHANICAL SUBCONTRACTOR SHOULD DISCONNECT, REMOVE, REROUTE, EXTEND, AND RECONNECT OR REPLACE THE LINES AND DUCT WORK TO THE UNITS ON THE AREAS TO BE REROOFED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BUILDING CODES. OPERATING UNITS THAT FAIL TO FUNCTION IN ACCORDANCE WITH THE PRE-CONSTRUCTION CONDITION REPORT AFTER RE-INSTALLATION WILL BE REPAIRED OR REPLACE BY THE CONTRACTOR AT NO COST TO THE ALEXANDRIA CITY PUBLIC SCHOOLS.

### <u>DEMOLITION PLAN — KEYED NOTES:</u>

- REMOVE AND SALVAGE (75% MIN.) EXISTING BRICK MASONRY AS REQUIRED TO INSTALL NEW THROUGH—WALL FLASHINGS
- REMOVE AND DISCARD EXISTING DRAIN BOWL, STRAINER, ETC. AND
- ASSOCIATED FLASHINGS AT EXISTING DRAIN LOCATION; PREP DRAINLINE
- EXISTING ROOF DRAIN LOCATION TO BE ABANDONED; REMOVE DRAIN CAP DRAIN LINE BELOW DECK AND PATCH DECKING
- REMOVE AND DISCARD EXISTING CHANNEL MAST; DISCONNECT AND TO REROUTE CONDUITS AND ATTACH TO NEW SUPPORT/BASE PLATE (SEE NEW WORK); COORDINATE WORK WITH ON-SITE PERSONNEL TO LIMIT DISRUPTION OF SERVICE
- TEST FUNCTION OF UNIT, THEN DISCONNECT AND TEMPORARILY REMOVE REROUTE LINES THROUGH EXISTING OR NEW ENCLOSURES (SEE NEW WORK); COORDINATE WORK WITH ON-SITE PERSONNEL TO LIMIT DISRUPTION OF SERVICE; PLEASE NOTE THAT CONTRACTOR/ SUBCONTRACTOR WILL ONLY BE ALLOWED TO TAKE ONE (1) UNIT OUT O
- REMOVE AND DISCARD EXISTING WOOD SLEEPERS
- REMOVE AND DISCARD PLASTIC EQUIPMENT PADS AT EXISTING HEAT PUMP
- 8 EXISTING CAPPED CURB; REMOVE AND PATCH DECKING
- EXISTING DUNNAGE TO BE ABANDONED; REMOVE AND PATCH DECK
- REMOVE AND DISCARD EXISTING ROOF HATCH ASSEMBLY; INSTALL
- TEMPORARY PROTECTION IN ACCORDANCE WITH ALL APPLICABLE FALL PROTECTION GUIDELINES UNTIL REPLACEMENT ROOF HATCHES ARE
- REMOVE AND DISCARD EXISTING SKYLIGHT ASSEMBLY; INSTALL TEMPORARY PROTECTION IN ACCORDANCE WITH ALL APPLICABLE FALL PROTECTION GUIDELINES UNTIL REPLACEMENT SKYLIGHTS ARE INSTALLED
- REMOVE AND DISCARD EXISTING DAYLIGHT ASSEMBLY; INSTALL TEMPORARY
- REMOVE AND DISCARD EXISTING LADDER; INFILL MASONRY
- 15 REMOVE AND DISCARD EXISTING FENCING; INFILL MASONRY
- REMOVE AND DISCARD EXISTING LOUVER VENT; INFILL MASONRY
- EXISTING FEED AND RETURN AIR DUCTWORK BELOW DUNNAGE TO BE REMOVED (BY OTHERS) TO FACILITATE INSTALLATION OF NEW ROOFING, BASE FLASHING AND THROUGH-WALL FLASHING ALONG RISING WALL. CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR WHO WILL BE PERFORMING KITCHEN/MECHANICAL RENOVATION WORK CONCURRENT WITH ROOF REPLACEMENT WORK. FOLLOWING COMPLETION OF ROOFING/FLASHING INSTALLATION, MECHANICAL CONTRACTOR WILL



RESTORATION
ENGINEERING, INC.
10503 West Drive, Suite A
FAIRFAX, VA 22030

DATE:

03/11/2020 BID SET

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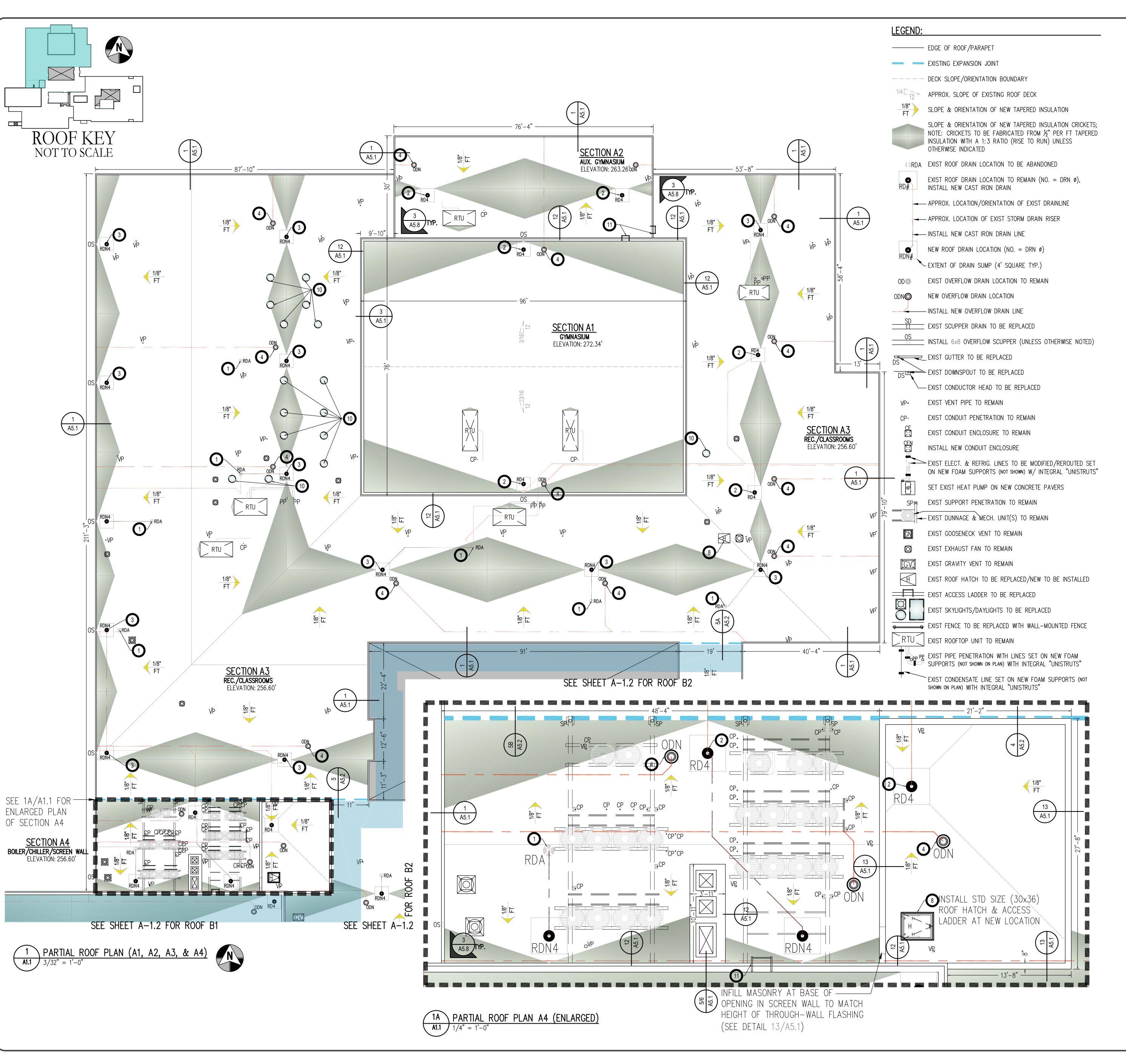
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DEMO & WALKWAY PLAN

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### <u>GENERAL CONSTRUCTION NOTES - NEW WORK:</u>

1. <u>BASE BID:</u>

1.1. AT ROOF SECTIONS WITH STEEL ROOF DECKS (A1 & B1) INSTALL NEW 3"-THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING STEEL ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL 2"-THICK LAYER OF POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE.

1.2. AT ROOF SECTIONS WITH GYPSUM ROOF DECKS (A2, A3, A4, B2, B3, B4, C1, C2, & C3) INSTALL NEW 3"—THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY—ADHERED, 60—MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE.

1.3. AT CANOPIES (C4, C5, C6, & C7) INSTALL NEW TAPERED POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK OR SET IN ADHESIVE TO EXISTING CONCRETE ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY—ADHERED, 60—MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE.

1.4. AT PERIMETER OF ROOF SECTIONS, INSTALL NEW AND OR SALVAGE BLOCKING AND PLYWOOD AS SHOWN ON DRAWINGS; INSTALL NEW PVC BASE FLASHINGS IAW MFCT.'S INSTRUCTIONS AND AS SHOWN ON DRAWINGS. FABRICATE AND INSTALL NEW NEW PREFINISHED ALUMINUM FLASHINGS AS SHOWN ON DRAWINGS

1.5. REMOVE AND RESET EXISTING BRICK MASONRY AT THROUGH—WALL JOINTS AS REQUIRED TO INSTALL NEW THROUGH—WALL FLASHINGS
 1.6. INSTALL NEW MULTIPLE CONDUIT ENCLOSURE HOUSING AT LOCATION(S) INDICATED AND ENGAGE LICENSED MECHANICAL/

ELECTRICAL CONTRACTOR(S) TO REROUTE EXISTING ELECTRICAL/

REFRIGERANT LINES THROUGH NEW HOUSINGS AS SHOWN ON PLAN

1.7. INSTALL PVC WALKWAY PADS AS SHOWN ON PLAN 2/A1.0

1.8. INSTALL NEW ROOF DRAINS, OVERFLOW ROOF DRAINS, AND ASSOCIATED DRAIN LINES AS SHOWN ON DRAWINGS (SEE KEYED

NOTES)
INSTALL NEW OVERFLOW SCUPPERS

REPLACE EXISTING & INSTALL NEW ROOF HATCHES
REPLACE EXISTING SKYLIGHTS AND DAYLIGHTS

REPLACE EXISTING LADDERS

REPLACE EXISTING FENCE

MODIFY/REPLACE EXISTING DUCT WORK
IN CONJUNCTION WITH ROOF REPLACEMENT WORK, CONTRACTOR TO
PERFORM REPAIRS TO EXISTING BRICK MASONRY FACADE (AT ROOF
AREAS) INCLUDING:

1.15.1. ISOLATED REPOINTING OF MORTAR JOINTS IN BRICK MASONRY VENEER

I.15.2. REPLACEMENT OF EXISTING SEALANT AT CONTROL JOINTS IN BRICK MASONRY FACADE

### NEW WORK PLAN - KEYED ROOFING NOTES:

EXISTING ROOF DRAIN LOCATION TO BE ABANDONED; SEE DEMO PLAN

REPLACE EXISTING DRAIN BODY WITH NEW CAST IRON DRAIN BOWL AND CONNECT TO EXISTING DRAIN LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS; WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN BOWL AND LINE

INSTALL NEW DRAIN BODY WITH NEW CAST IRON DRAIN BOWL AND INSTALL NEW CAST IRON PIPING AS REQUIRED TO CONNECT TO EXISTING DRAIN LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS (NOTE THAT CONFIGURATION OF NEW DRAIN LINE IS SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGATE EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW DRAIN LINES); WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN BOWL AND LINE

INSTALL NEW OVERFLOW CAST IRON DRAIN BOWL AND OVERFLOW DRAIN LINE AND EXTEND THROUGH EXTERIOR WALL AND TERMINATE WITH BRONZE LAMB'S TONGUE AS SHOWN ON DETAILS 5/A5.3 AND 6/A5.3 (NOTE THAT CONFIGURATION/LOCATION OF NEW OVERFLOW DRAIN AND ASSOCIATED DRAINS ARE SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGATE EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW OVERFLOW DRAIN LINES); INSULATE OVERFLOW DRAIN BOWL AND DRAIN LINE

INSTALL NEW, PRE-MANUFACTURED, MULTIPLE CONDUIT ENCLOSURE, WITH INSULATED HOUSING AND INTEGRAL REMOVABLE HOODS AND INSULATED CONNECTIONS; INSTALL AS SHOWN ON DETAIL 5/A5.4 AND IAW MFCT.'S INSTRUCTIONS; NOTE THAT EXACT LOCATION OF CONDUIT ENCLOSURE MAY VARY DEPENDING UPON OPTIMUM LOCATION WITHIN THE CEILING SPACE

ENGAGE QUALIFIED MECHANICAL/ELECTRICAL SUBCONTRACTOR(S) TO REROUTE EXISTING ELECTRICAL AND REFRIGERANT LINES THROUGH EXISTING OR NEW CONDUIT ENCLOSURE(S) AND THROUGH SIDE WALL OF NEW INSULATED ENCLOSURE HOUSING IAW MFCT.'S INSTRUCTIONS USING APPROVED FITTINGS; TEST EQUIPMENT TO VERIFY PROPER OPERATION, INSULATE ALL REFRIGERANT LINES IAW APPLICABLE CODE REQUIREMENTS

INSTALL NEW UNISTRUT SUPPORT/BASE PLATE TO NEW 24"x24"x2" THICK CONCRETE PAVER AT LOCATION INDICATED AND ATTACH EXISTING/NEW SHUT OFF SWITCH HOUSING IAW DETAIL 6/A5.4; ROUTE NEW ELECTRICAL CONDUIT TO SHUT OFF SWITCH IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES; SET PAVER ON PVC PROTECTIVE WALKPAD

8 INSTALL NEW ROOF HATCH MATCHING SIZE OF ORIGINAL ROOF HATCH AT EXISTING HATCH LOCATION

9 INSTALL NEW SKYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAIL 3/A5.6)

INSTALL NEW DAYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAILS 1/A5.7 AND 2/A5.7)

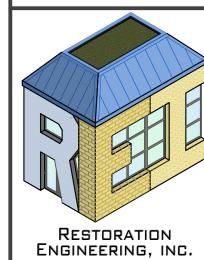
FABRICATE AND INSTALL NEW LADDER IAW DETAIL 1/A5.6

FABRICATE AND INSTALL NEW FENCE IAW DETAIL 2/A5.6

MECHANICAL CONTRACTOR TO REINSTALL ASSOCIATED DUCTWORK FOLLOWING COMPLETION OF ROOFING/FLASHING INSTALLATION; CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR WHO WILL BE PERFORMING KITCHEN/MECHANICAL RENOVATION WORK CONCURRENT WITH ROOF REPLACEMENT WORK

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JOHN ADAMS ELEMENTARY
ALEXANDRIA CITY PUBLIC S
5651 RAYBURN AVENUE



RESTORATION
ENGINEERING, INC
10503 WEST DRIVE, SUITE A
FAIRFAX, VA 22030
RAVING TITLE:
PARTIAL, ROOF PLAT

DRAWING TITLE:

PARTIAL ROOF PLAN

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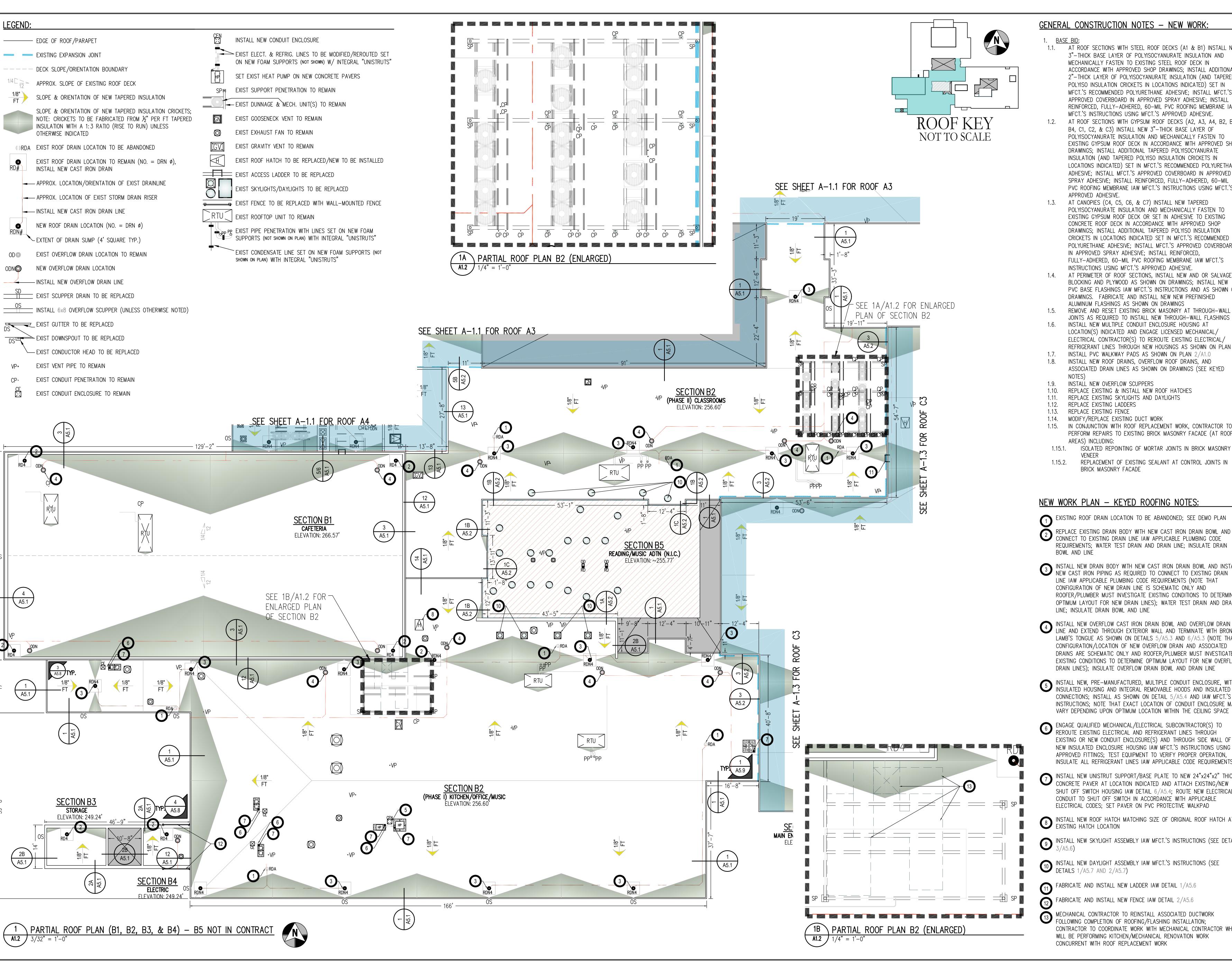
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<u>GENERAL CONSTRUCTION NOTES - NEW WORK:</u>

1.1. AT ROOF SECTIONS WITH STEEL ROOF DECKS (A1 & B1) INSTALL NEW 3"-THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING STEEL ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL 2"-THICK LAYER OF POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE

1.2. AT ROOF SECTIONS WITH GYPSUM ROOF DECKS (A2, A3, A4, B2, B3, B4, C1, C2, & C3) INSTALL NEW 3"-THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE: INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S

1.3. AT CANOPIES (C4, C5, C6, & C7) INSTALL NEW TAPERED POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK OR SET IN ADHESIVE TO EXISTING CONCRETE ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S

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REMOVE AND RESET EXISTING BRICK MASONRY AT THROUGH-WALI JOINTS AS REQUIRED TO INSTALL NEW THROUGH-WALL FLASHINGS 1.6. INSTALL NEW MULTIPLE CONDUIT ENCLOSURE HOUSING AT LOCATION(S) INDICATED AND ENGAGE LICENSED MECHANICAL/

INSTALL PVC WALKWAY PADS AS SHOWN ON PLAN 2/A1.0 1.8. INSTALL NEW ROOF DRAINS, OVERFLOW ROOF DRAINS, AND ASSOCIATED DRAIN LINES AS SHOWN ON DRAWINGS (SEE KEYED

INSTALL NEW OVERFLOW SCUPPERS

REPLACE EXISTING & INSTALL NEW ROOF HATCHES

REPLACE EXISTING SKYLIGHTS AND DAYLIGHTS

REPLACE EXISTING LADDERS

REPLACE EXISTING FENCE

MODIFY/REPLACE EXISTING DUCT WORK IN CONJUNCTION WITH ROOF REPLACEMENT WORK, CONTRACTOR PERFORM REPAIRS TO EXISTING BRICK MASONRY FACADE (AT ROOF AREAS) INCLUDING:

ISOLATED REPOINTING OF MORTAR JOINTS IN BRICK MASONRY

REPLACEMENT OF EXISTING SEALANT AT CONTROL JOINTS IN BRICK MASONRY FACADE

### <u>NEW WORK PLAN - KEYED ROOFING NOTES:</u>

EXISTING ROOF DRAIN LOCATION TO BE ABANDONED; SEE DEMO PLAN

ONNECT TO EXISTING DRAIN LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS; WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN

LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS (NOTE THAT CONFIGURATION OF NEW DRAIN LINE IS SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGATE EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW DRAIN LINES); WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN BOWL AND LINE

INSTALL NEW OVERFLOW CAST IRON DRAIN BOWL AND OVERFLOW DRAIN INE AND EXTEND THROUGH EXTERIOR WALL AND TERMINATE WITH BRONZE \_AMB'S TONGUE AS SHOWN ON DETAILS 5/A5.3 AND 6/A5.3 (NOTE THAT CONFIGURATION/LOCATION OF NEW OVERFLOW DRAIN AND ASSOCIATED DRAINS ARE SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGAT EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW OVERFLOW DRAIN LINES); INSULATE OVERFLOW DRAIN BOWL AND DRAIN LINE

NSULATED HOUSING AND INTEGRAL REMOVABLE HOODS AND INSULATED CONNECTIONS; INSTALL AS SHOWN ON DETAIL 5/A5.4 AND IAW MFCT.'S INSTRUCTIONS: NOTE THAT EXACT LOCATION OF CONDUIT ENCLOSURE MA

ENGAGE QUALIFIED MECHANICAL/ELECTRICAL SUBCONTRACTOR(S) TO REROUTE EXISTING ELECTRICAL AND REFRIGERANT LINES THROUGH EXISTING OR NEW CONDUIT ENCLOSURE(S) AND THROUGH SIDE WALL OF NEW INSULATED ENCLOSURE HOUSING IAW MFCT.'S INSTRUCTIONS USING APPROVED FITTINGS; TEST EQUIPMENT TO VERIFY PROPER OPERATION, INSULATE ALL REFRIGERANT LINES IAW APPLICABLE CODE REQUIREMENTS

SHUT OFF SWITCH HOUSING IAW DETAIL 6/A5.4; ROUTE NEW ELECTRICAL CONDUIT TO SHUT OFF SWITCH IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES; SET PAVER ON PVC PROTECTIVE WALKPAD

8 INSTALL NEW ROOF HATCH MATCHING SIZE OF ORIGINAL ROOF HATCH AT EXISTING HATCH LOCATION

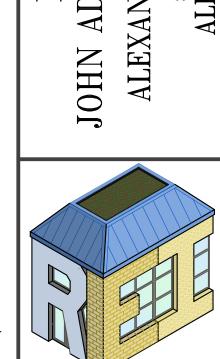
9 INSTALL NEW SKYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAIL 3/A5.6)

INSTALL NEW DAYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAILS 1/A5.7 AND 2/A5.7)

FABRICATE AND INSTALL NEW LADDER IAW DETAIL 1/A5.6

FABRICATE AND INSTALL NEW FENCE IAW DETAIL 2/A5.6

MECHANICAL CONTRACTOR TO REINSTALL ASSOCIATED DUCTWORK FOLLOWING COMPLETION OF POOFING (FLACULUS INSTALL ASSOCIATED DUCTWORK FOLLOWING COMPLETION OF ROOFING/FLASHING INSTALLATION; CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR WHO WILL BE PERFORMING KITCHEN/MECHANICAL RENOVATION WORK CONCURRENT WITH ROOF REPLACEMENT WORK



RESTORATION ENGINEERING, INC. 10503 WEST DRIVE, SUITE A FAIRFAX, VA 22030

PARTIAL ROOF PLAN

| SUBMISSION: DATE:

03/11/2020 BID SET

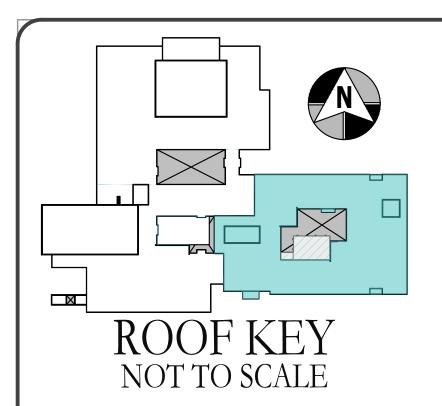
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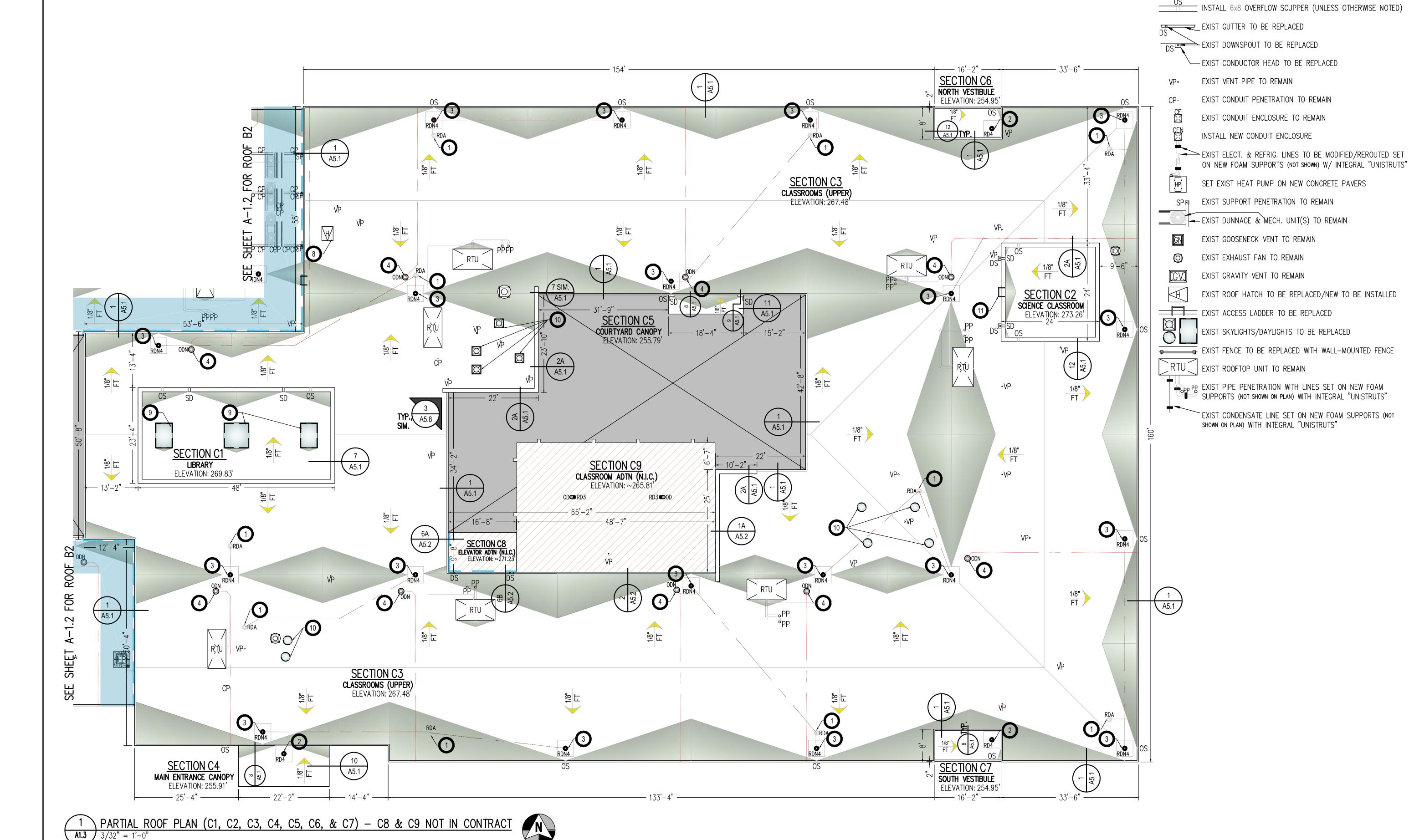
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REI PROJECT NUMBER: CAD FILE:

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GENERAL CONSTRUCTION NOTES - NEW WORK:

1. <u>BASE BID</u>:

LEGEND:

----- EDGE OF ROOF/PARAPET

EXISTING EXPANSION JOINT

———— DECK SLOPE/ORIENTATION BOUNDARY

OTHERWISE INDICATED

INSTALL NEW CAST IRON DRAIN

■ INSTALL NEW CAST IRON DRAIN LINE

NEW OVERFLOW DRAIN LOCATION

INSTALL NEW OVERFLOW DRAIN LINE

EXIST SCUPPER DRAIN TO BE REPLACED

1/4 = APPROX. SLOPE OF EXISTING ROOF DECK

SLOPE & ORIENTATION OF NEW TAPERED INSULATION

INSULATION WITH A 1:3 RATIO (RISE TO RUN) UNLESS

EXIST ROOF DRAIN LOCATION TO REMAIN (NO. = DRN  $\emptyset$ ),

APPROX. LOCATION/ORIENTATION OF EXIST DRAINLINE

APPROX. LOCATION OF EXIST STORM DRAIN RISER

NEW ROOF DRAIN LOCATION (NO. = DRN  $\emptyset$ )

EXTENT OF DRAIN SUMP (4' SQUARE TYP.)

EXIST OVERFLOW DRAIN LOCATION TO REMAIN

RDA EXIST ROOF DRAIN LOCATION TO BE ABANDONED

SLOPE & ORIENTATION OF NEW TAPERED INSULATION CRICKETS;

NOTE: CRICKETS TO BE FABRICATED FROM 1/2" PER FT TAPERED

1.1. AT ROOF SECTIONS WITH STEEL ROOF DECKS (A1 & B1) INSTALL NEW 3"-THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING STEEL ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL 2"-THICK LAYER OF POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW

MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE 1.2. AT ROOF SECTIONS WITH GYPSUM ROOF DECKS (A2, A3, A4, B2, B3, B4, C1, C2, & C3) INSTALL NEW 3"-THICK BASE LAYER OF POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISOCYANURATE INSULATION (AND TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED) SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE: INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE: INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE.

1.3. AT CANOPIES (C4, C5, C6, & C7) INSTALL NEW TAPERED POLYISOCYANURATE INSULATION AND MECHANICALLY FASTEN TO EXISTING GYPSUM ROOF DECK OR SET IN ADHESIVE TO EXISTING CONCRETE ROOF DECK IN ACCORDANCE WITH APPROVED SHOP DRAWINGS; INSTALL ADDITIONAL TAPERED POLYISO INSULATION CRICKETS IN LOCATIONS INDICATED SET IN MFCT.'S RECOMMENDED POLYURETHANE ADHESIVE; INSTALL MFCT.'S APPROVED COVERBOARD IN APPROVED SPRAY ADHESIVE; INSTALL REINFORCED, FULLY-ADHERED, 60-MIL PVC ROOFING MEMBRANE IAW MFCT.'S INSTRUCTIONS USING MFCT.'S APPROVED ADHESIVE.

1.4. AT PERIMETER OF ROOF SECTIONS, INSTALL NEW AND OR SALVAGE BLOCKING AND PLYWOOD AS SHOWN ON DRAWINGS; INSTALL NEW PVC BASE FLASHINGS IAW MFCT.'S INSTRUCTIONS AND AS SHOWN ON DRAWINGS. FABRICATE AND INSTALL NEW NEW PREFINISHED ALUMINUM FLASHINGS AS SHOWN ON DRAWINGS

REMOVE AND RESET EXISTING BRICK MASONRY AT THROUGH-WALL JOINTS AS REQUIRED TO INSTALL NEW THROUGH-WALL FLASHINGS 1.6. INSTALL NEW MULTIPLE CONDUIT ENCLOSURE HOUSING AT LOCATION(S) INDICATED AND ENGAGE LICENSED MECHANICAL/ ELECTRICAL CONTRACTOR(S) TO REROUTE EXISTING ELECTRICAL/

REFRIGERANT LINES THROUGH NEW HOUSINGS AS SHOWN ON PLAN INSTALL PVC WALKWAY PADS AS SHOWN ON PLAN 2/A1.0 1.8. INSTALL NEW ROOF DRAINS, OVERFLOW ROOF DRAINS, AND ASSOCIATED DRAIN LINES AS SHOWN ON DRAWINGS (SEE KEYED

NOTES) INSTALL NEW OVERFLOW SCUPPERS

REPLACE EXISTING & INSTALL NEW ROOF HATCHES

REPLACE EXISTING SKYLIGHTS AND DAYLIGHTS

REPLACE EXISTING LADDERS REPLACE EXISTING FENCE

MODIFY/REPLACE EXISTING DUCT WORK IN CONJUNCTION WITH ROOF REPLACEMENT WORK, CONTRACTOR TO PERFORM REPAIRS TO EXISTING BRICK MASONRY FACADE (AT ROOF AREAS) INCLUDING:

ISOLATED REPOINTING OF MORTAR JOINTS IN BRICK MASONRY

REPLACEMENT OF EXISTING SEALANT AT CONTROL JOINTS IN BRICK MASONRY FACADE

### <u>NEW WORK PLAN - KEYED ROOFING NOTES:</u>

EXISTING ROOF DRAIN LOCATION TO BE ABANDONED; SEE DEMO PLAN

REPLACE EXISTING DRAIN BODY WITH NEW CAST IRON DRAIN BOWL AND CONNECT TO EXISTING DRAIN LINE LAW ABBLICATION CONNECT TO EXISTING DRAIN LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS; WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN BOWL AND LINE

LINE IAW APPLICABLE PLUMBING CODE REQUIREMENTS (NOTE THAT CONFIGURATION OF NEW DRAIN LINE IS SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGATE EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW DRAIN LINES); WATER TEST DRAIN AND DRAIN LINE; INSULATE DRAIN BOWL AND LINE

INSTALL NEW OVERFLOW CAST IRON DRAIN BOWL AND OVERFLOW DRAIN LINE AND EXTEND THROUGH EXTERIOR WALL AND TERMINATE WITH BRONZE LAMB'S TONGUE AS SHOWN ON DETAILS 5/A5.3 AND 6/A5.3 (NOTE THAT CONFIGURATION/LOCATION OF NEW OVERFLOW DRAIN AND ASSOCIATED DRAINS ARE SCHEMATIC ONLY AND ROOFER/PLUMBER MUST INVESTIGATE EXISTING CONDITIONS TO DETERMINE OPTIMUM LAYOUT FOR NEW OVERFLOW DRAIN LINES); INSULATE OVERFLOW DRAIN BOWL AND DRAIN LINE

INSTALL NEW, PRE-MANUFACTURED, MULTIPLE CONDUIT ENCLOSURE, WITH INSULATED HOUSING AND INTEGRAL REMOVABLE HOODS AND INSULATED CONNECTIONS; INSTALL AS SHOWN ON DETAIL 5/A5.4 AND IAW MFCT.'S INSTRUCTIONS; NOTE THAT EXACT LOCATION OF CONDUIT ENCLOSURE MA' VARY DEPENDING UPON OPTIMUM LOCATION WITHIN THE CEILING SPACE

6 ENGAGE QUALIFIED MECHANICAL/ELECTRICAL SUBCONTRACTOR(S) TO REPOUTE FXISTING FLECTRICAL AND DEEDLOSS AND DEE REROUTE EXISTING ELECTRICAL AND REFRIGERANT LINES THROUGH EXISTING OR NEW CONDUIT ENCLOSURE(S) AND THROUGH SIDE WALL OF NEW INSULATED ENCLOSURE HOUSING IAW MFCT.'S INSTRUCTIONS USING APPROVED FITTINGS; TEST EQUIPMENT TO VERIFY PROPER OPERATION, INSULATE ALL REFRIGERANT LINES IAW APPLICABLE CODE REQUIREMENTS

INSTALL NEW UNISTRUT SUPPORT/BASE PLATE TO NEW 24"x24"x2" THICK CONCRETE PAVER AT LOCATION INDICATED AND ATTACH EXISTING/NEW SHUT OFF SWITCH HOUSING IAW DETAIL 6/A5.4; ROUTE NEW ELECTRICAL CONDUIT TO SHUT OFF SWITCH IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES; SET PAVER ON PVC PROTECTIVE WALKPAD

8 INSTALL NEW ROOF HATCH MATCHING SIZE OF ORIGINAL ROOF HATCH AT EXISTING HATCH LOCATION

9 INSTALL NEW SKYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAIL 3/A5.6)

INSTALL NEW DAYLIGHT ASSEMBLY IAW MFCT.'S INSTRUCTIONS (SEE DETAILS 1/A5.7 AND 2/A5.7)

FABRICATE AND INSTALL NEW LADDER IAW DETAIL 1/A5.6

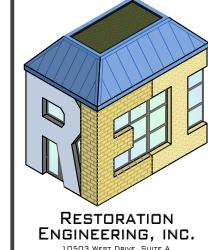
FABRICATE AND INSTALL NEW FENCE IAW DETAIL 2/A5.6

MECHANICAL CONTRACTOR TO REINSTALL ASSOCIATED DUCTWORK FOLLOWING COMPLETION OF POOFING (FLASHING INSTALL ATION) FOLLOWING COMPLETION OF ROOFING/FLASHING INSTALLATION; CONTRACTOR TO COORDINATE WORK WITH MECHANICAL CONTRACTOR WHO WILL BE PERFORMING KITCHEN/MECHANICAL RENOVATION WORK CONCURRENT WITH ROOF REPLACEMENT WORK

	#	DAIE	SUBMISSIONS/ KEVISIONS
-	01	02/11/2020	01   02/11/2020   80% SUBMISSION SET
	02	02/28/2020	02   02/28/2020   95% SUBMISSION SET
	03	03   03/11/2020   BID SET	BID SET
	!		
	-	-	-

ROOF DAMS

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10503 WEST DRIVE, SUITE A FAIRFAX, VA 22030

PARTIAL ROOF PLAN

| SUBMISSION: DATE:

03/11/2020 BID SET

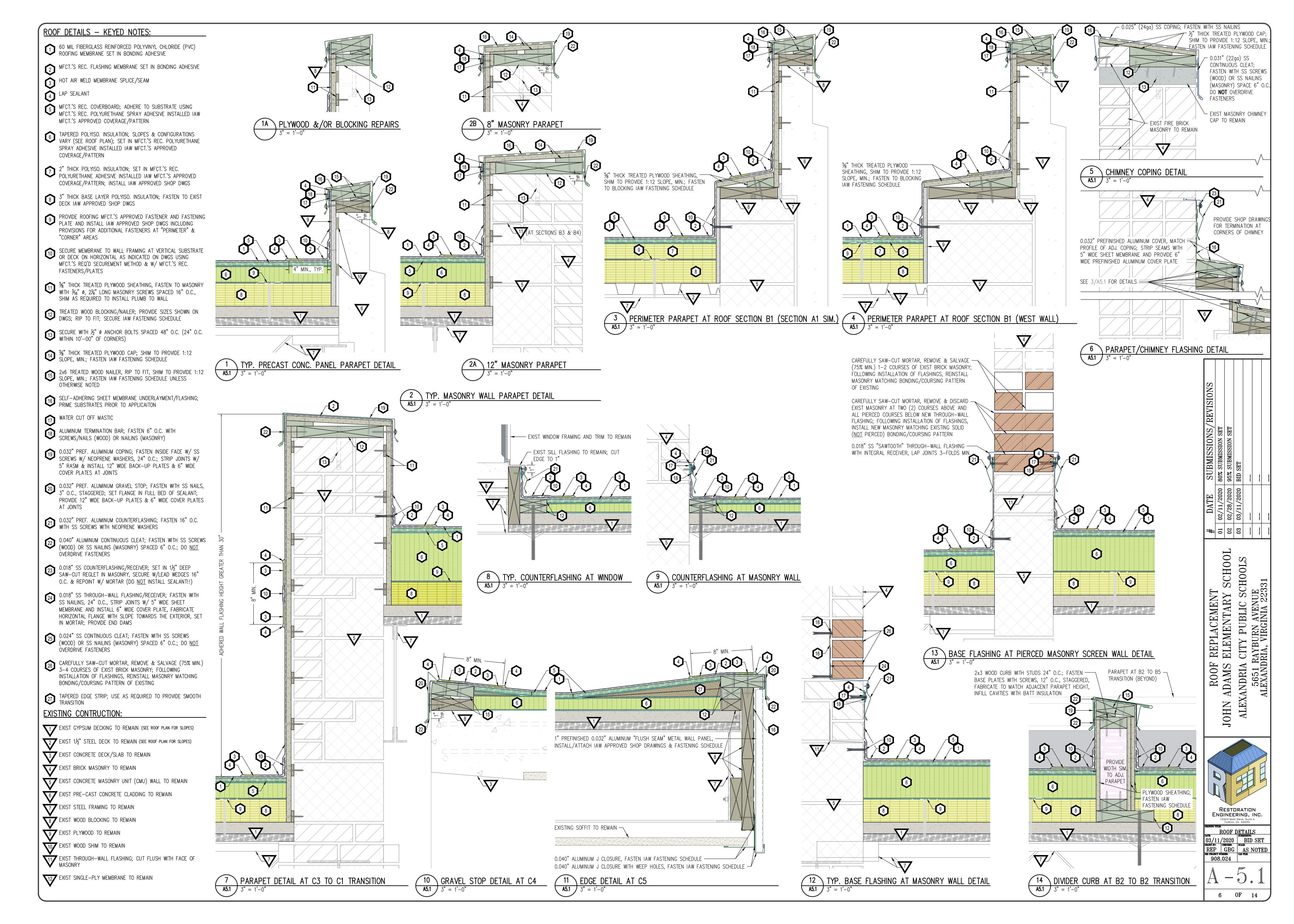
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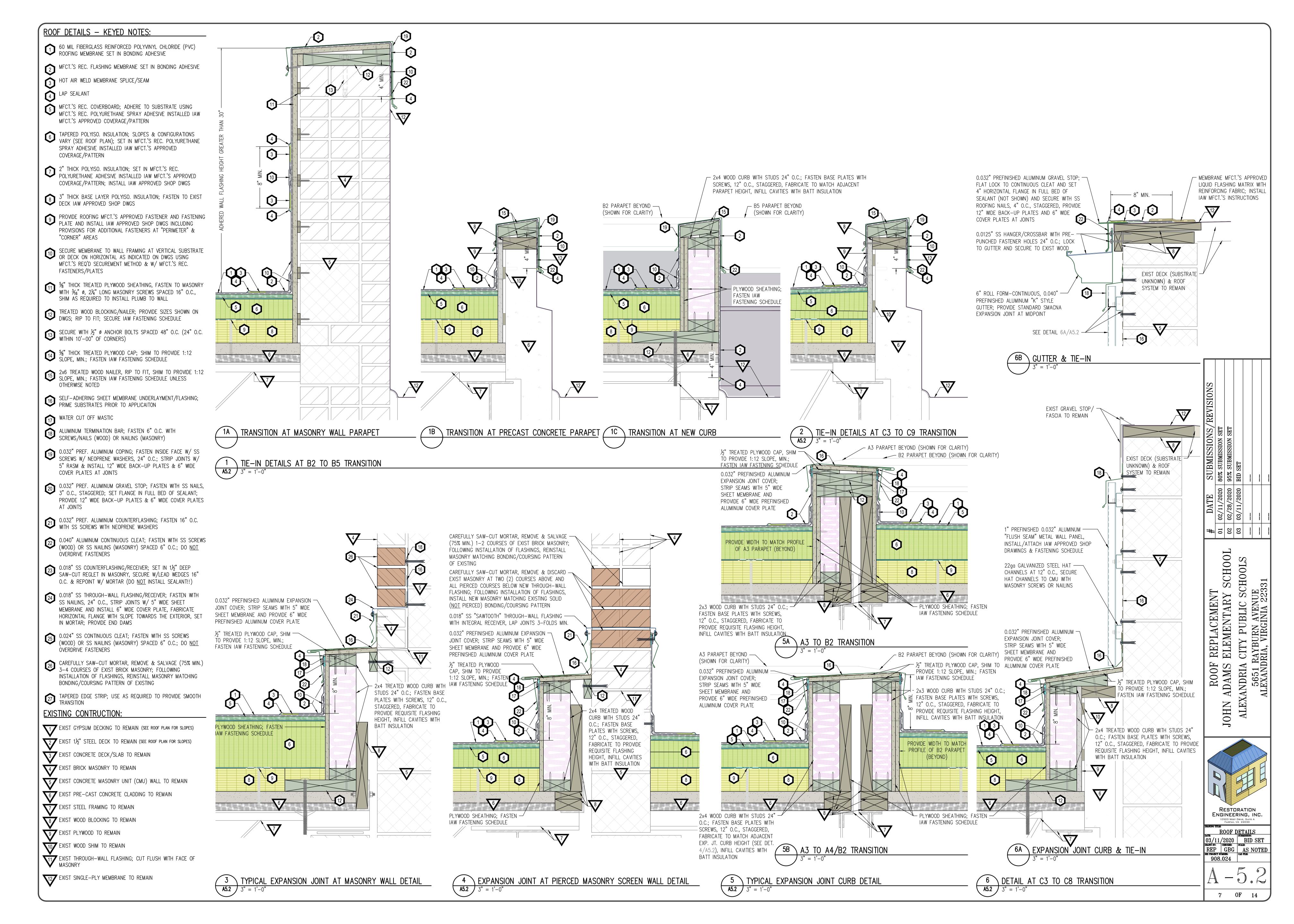
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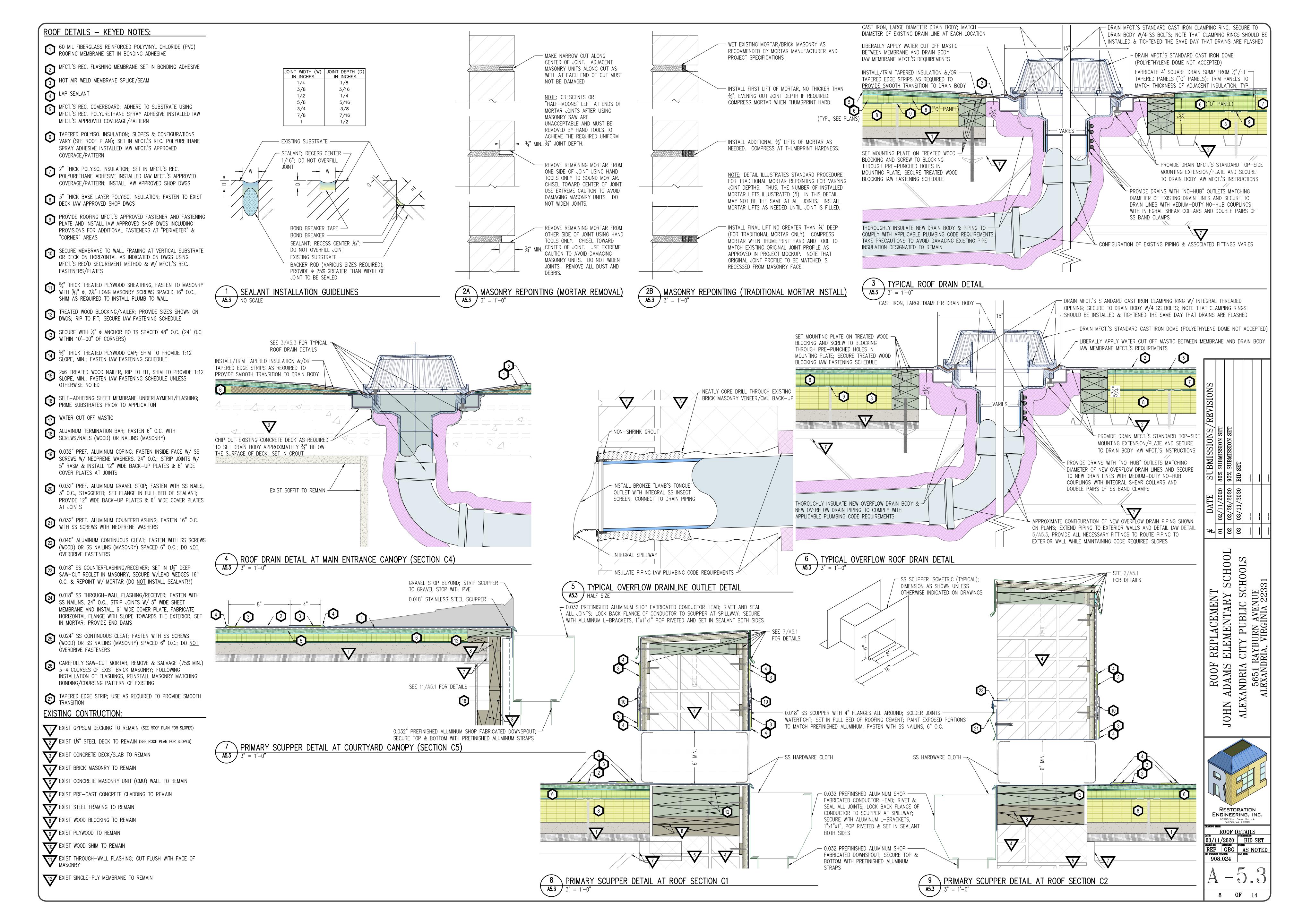
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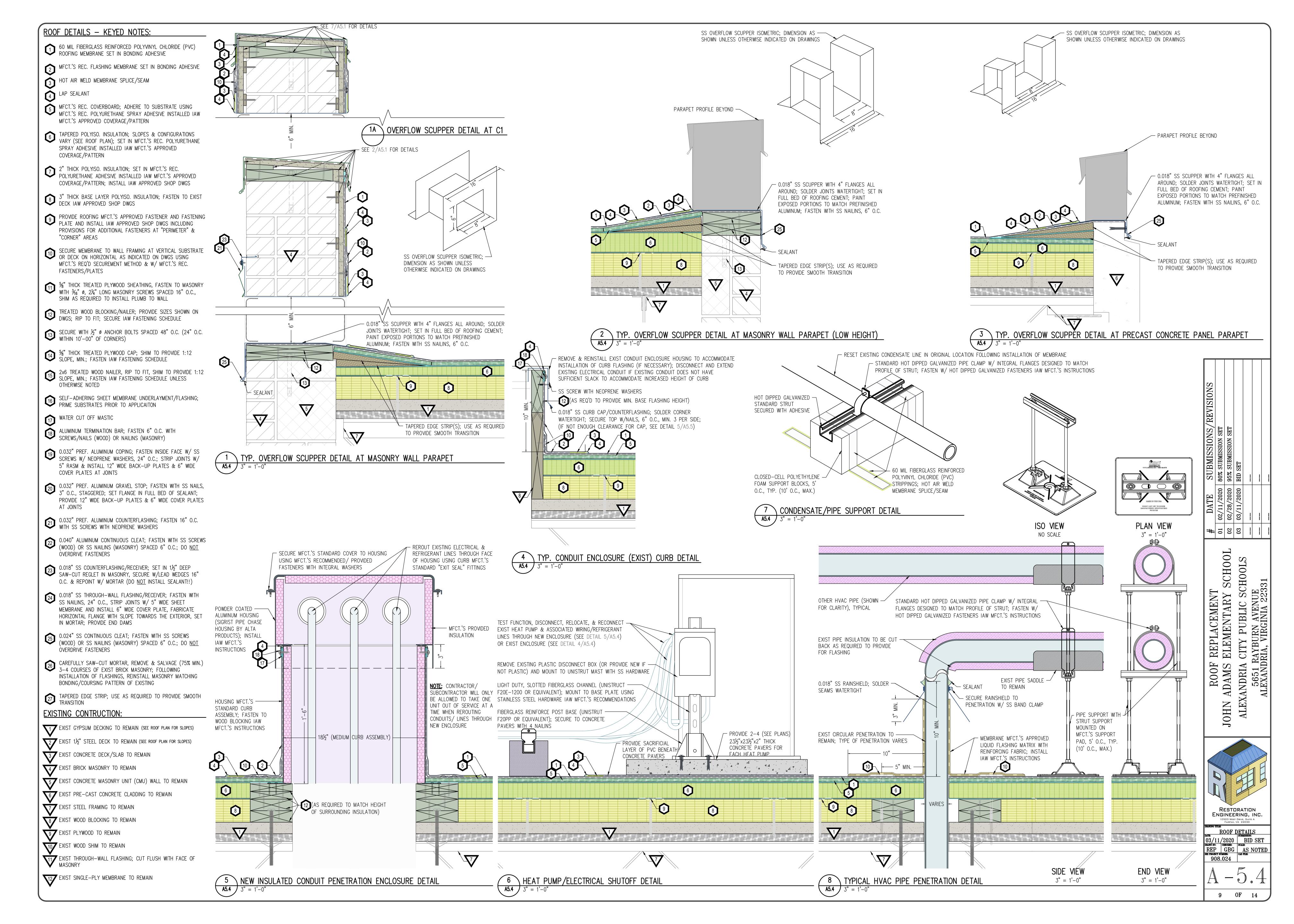
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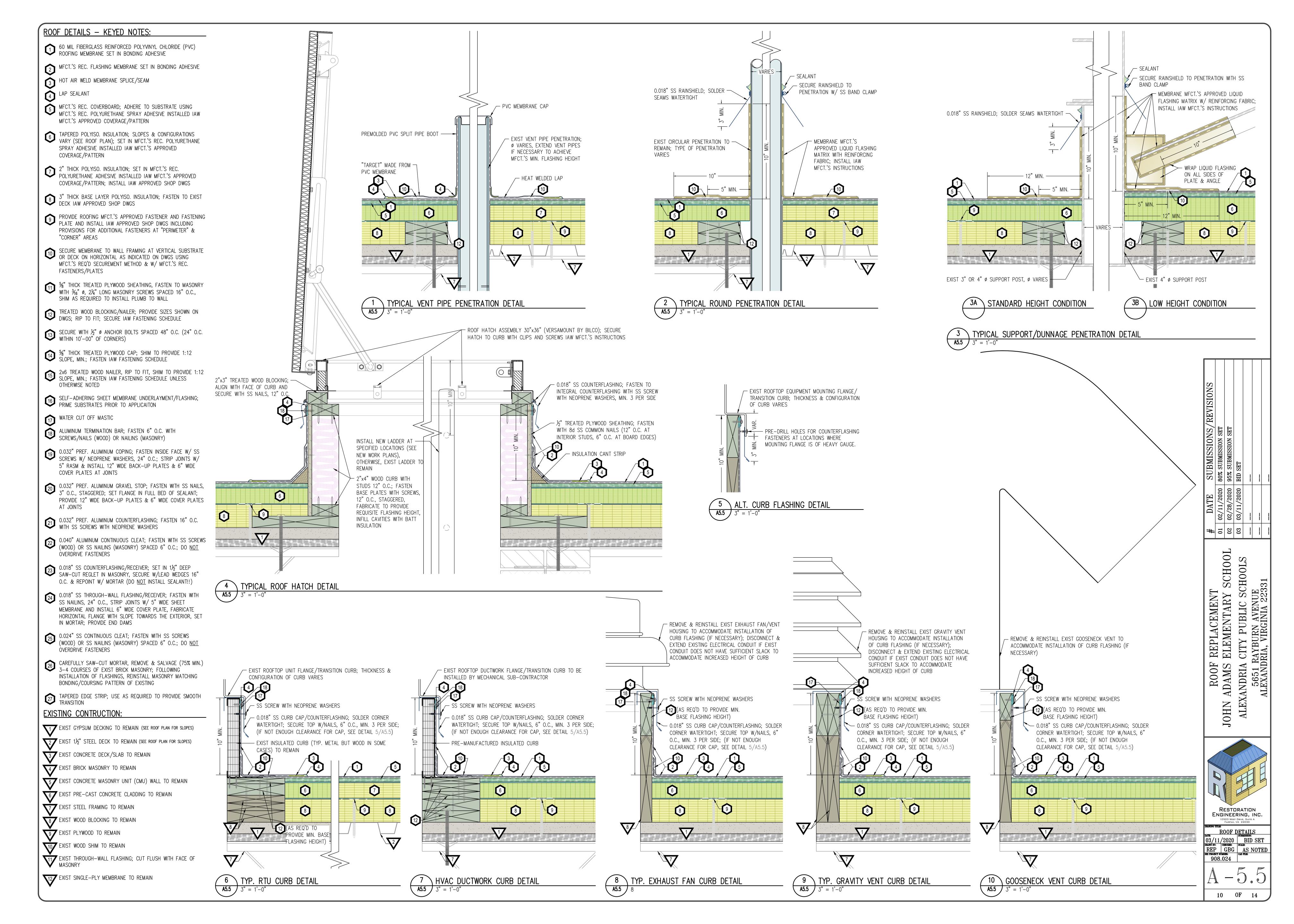
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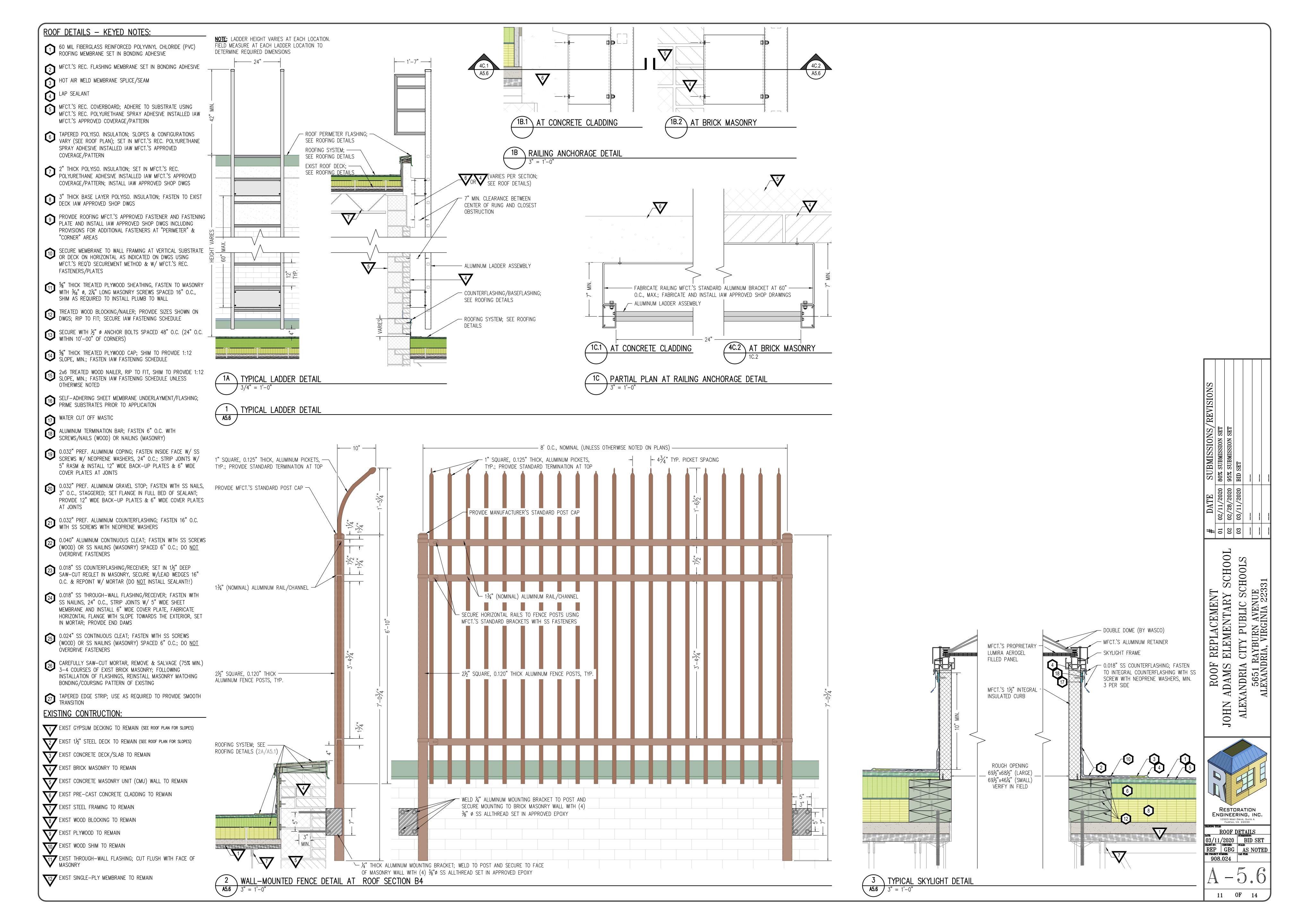


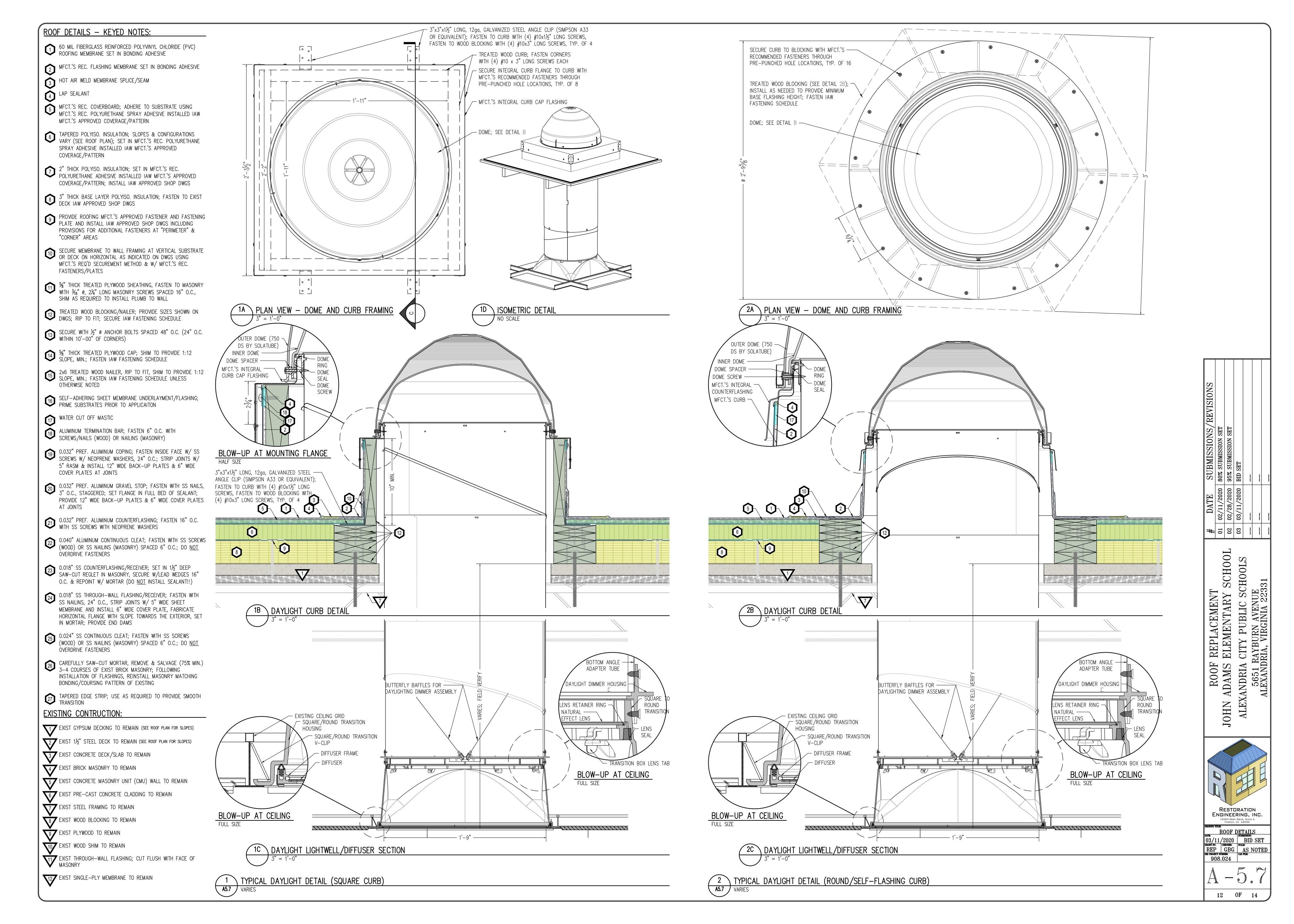


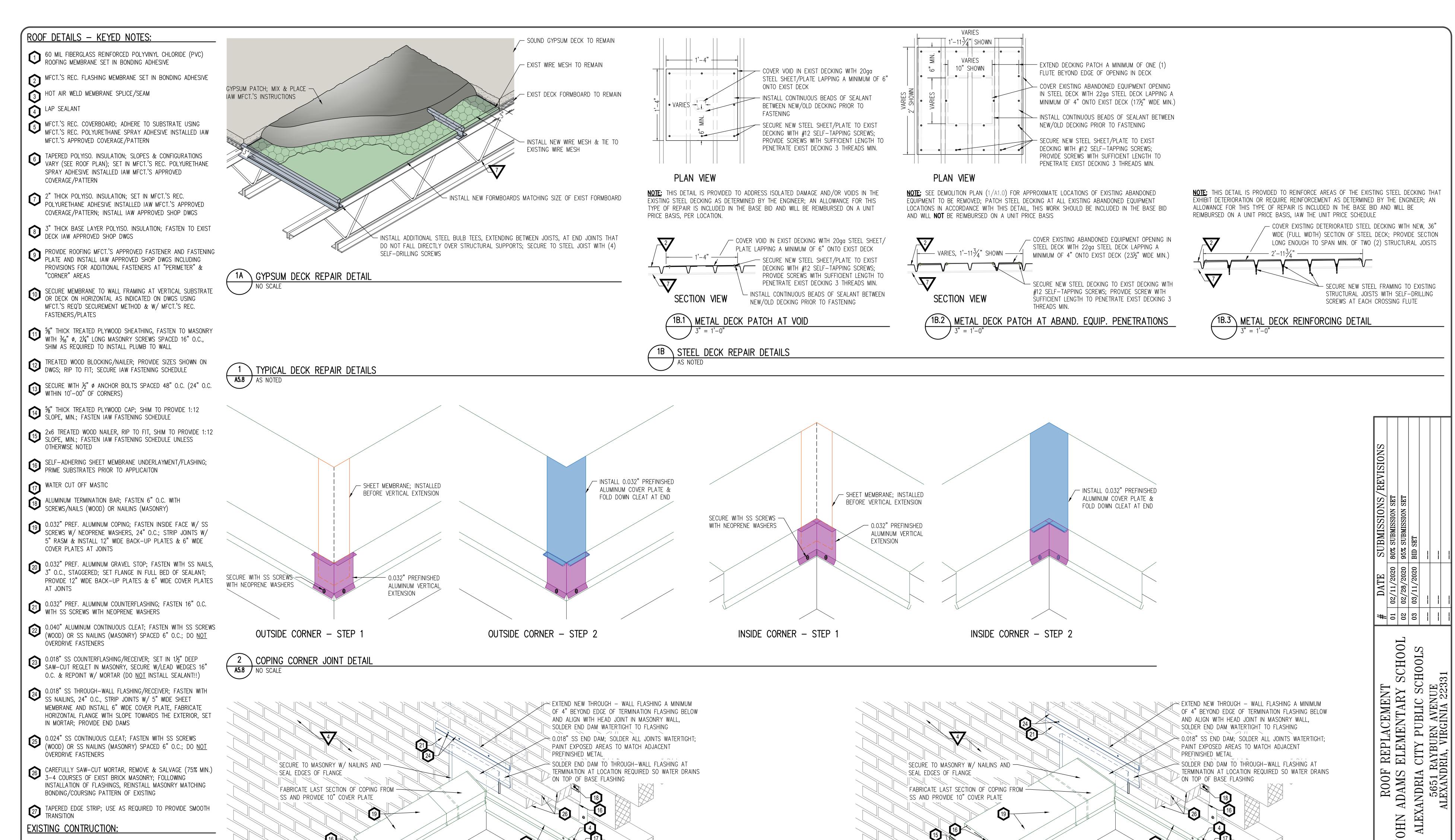


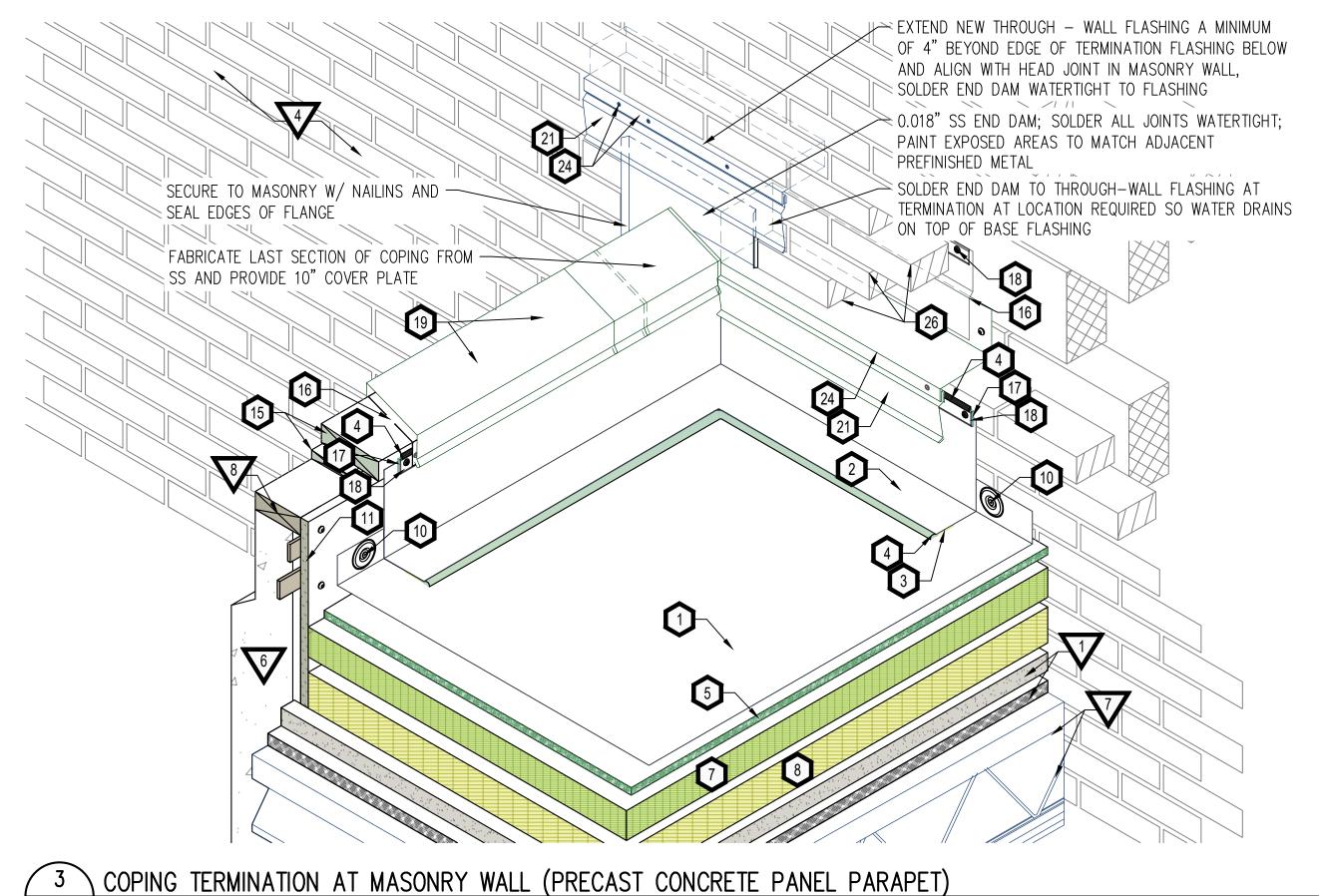












EXIST GYPSUM DECKING TO REMAIN (SEE ROOF PLAN FOR SLOPES)

2 EXIST 1/2" STEEL DECK TO REMAIN (SEE ROOF PLAN FOR SLOPES)

EXIST CONCRETE MASONRY UNIT (CMU) WALL TO REMAIN

EXIST THROUGH—WALL FLASHING; CUT FLUSH WITH FACE OF MASONRY

A5.8 NOT TO SCALE

3 EXIST CONCRETE DECK/SLAB TO REMAIN

EXIST STEEL FRAMING TO REMAIN

12 EXIST SINGLE-PLY MEMBRANE TO REMAIN

8 EXIST WOOD BLOCKING TO REMAIN

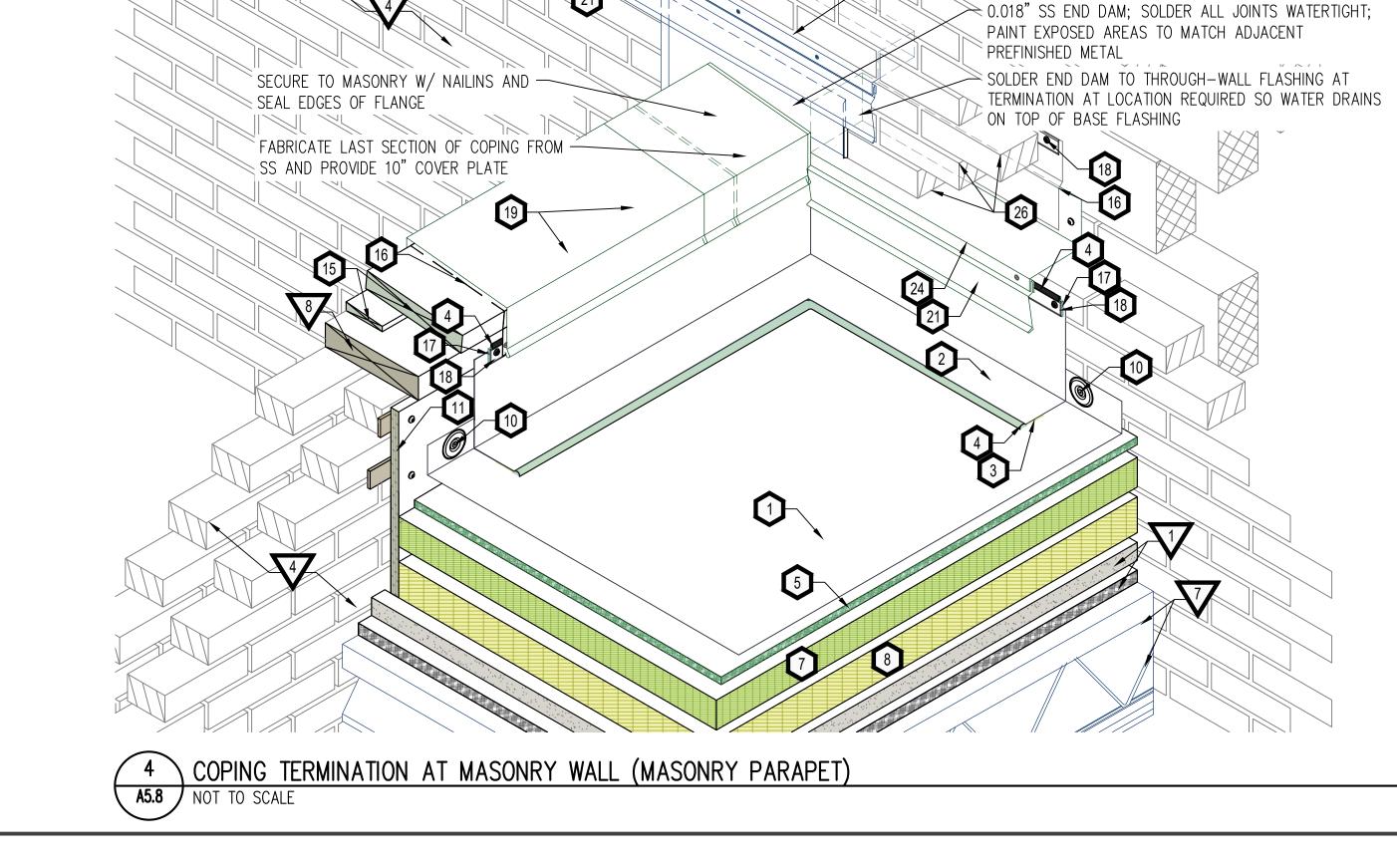
EXIST PLYWOOD TO REMAIN

10 EXIST WOOD SHIM TO REMAIN

EXIST PRE-CAST CONCRETE CLADDING TO REMAIN

EXIST BRICK MASONRY TO REMAIN

7

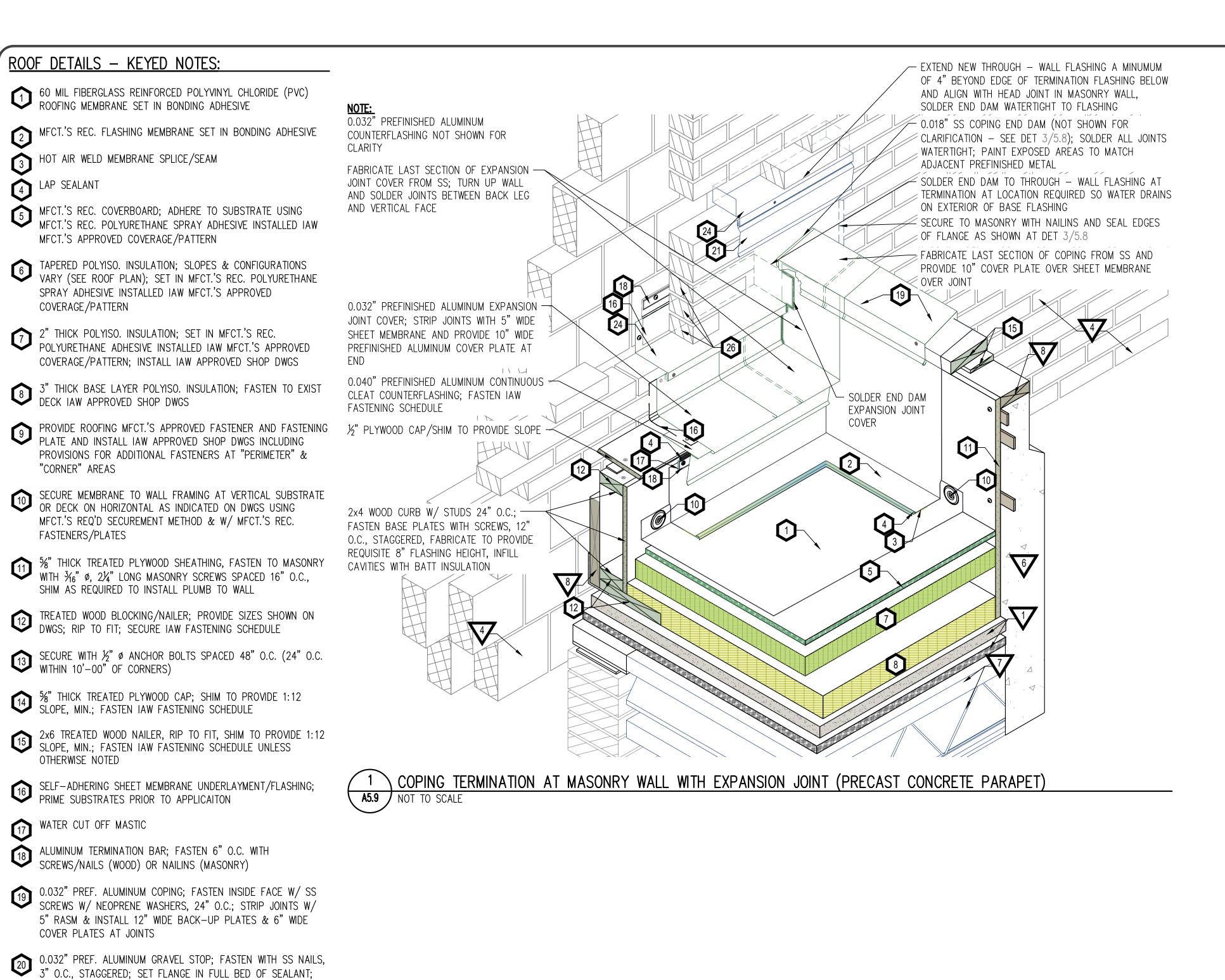


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RESTORATION ENGINEERING, INC.
10503 WEST DRIVE, SUITE A
FAIRFAX, VA 22030

ISOMETRIC DETAILS



ROOF DETAILS - KEYED NOTES:

HOT AIR WELD MEMBRANE SPLICE/SEAM

MFCT.'S APPROVED COVERAGE/PATTERN

4 LAP SEALANT

COVERAGE/PATTERN

"CORNER" AREAS

FASTENERS/PLATES

OTHERWISE NOTED

WATER CUT OFF MASTIC

COVER PLATES AT JOINTS

OVERDRIVE FASTENERS

IN MORTAR; PROVIDE END DAMS

OVERDRIVE FASTENERS

**EXISTING CONTRUCTION:** 

EXIST CONCRETE DECK/SLAB TO REMAIN

EXIST BRICK MASONRY TO REMAIN

7 EXIST STEEL FRAMING TO REMAIN

8 EXIST WOOD BLOCKING TO REMAIN

12 EXIST SINGLE-PLY MEMBRANE TO REMAIN

9 EXIST PLYWOOD TO REMAIN

EXIST WOOD SHIM TO REMAIN

AT JOINTS

PROVIDE 12" WIDE BACK-UP PLATES & 6" WIDE COVER PLATES

0.032" PREF. ALUMINUM COUNTERFLASHING; FASTEN 16" O.C. WITH SS SCREWS WITH NEOPRENE WASHERS

0.040" ALUMINUM CONTINUOUS CLEAT; FASTEN WITH SS SCREWS (WOOD) OR SS NAILINS (MASONRY) SPACED 6" O.C.; DO NOT

0.018" SS COUNTERFLASHING/RECEIVER; SET IN 1½" DEEP SAW-CUT REGLET IN MASONRY, SECURE W/LEAD WEDGES 16"

0.018" SS THROUGH-WALL FLASHING/RECEIVER; FASTEN WITH SS NAILINS, 24" O.C., STRIP JOINTS W/ 5" WIDE SHEET

0.024" SS CONTINUOUS CLEAT; FASTEN WITH SS SCREWS (WOOD) OR SS NAILINS (MASONRY) SPACED 6" O.C.; DO NOT

CAREFULLY SAW-CUT MORTAR, REMOVE & SALVAGE (75% MIN.) 3-4 COURSES OF EXIST BRICK MASONRY; FOLLOWING

TAPERED EDGE STRIP; USE AS REQUIRED TO PROVIDE SMOOTH TRANSITION

EXIST GYPSUM DECKING TO REMAIN (SEE ROOF PLAN FOR SLOPES)

EXIST 1½" STEEL DECK TO REMAIN (SEE ROOF PLAN FOR SLOPES)

EXIST CONCRETE MASONRY UNIT (CMU) WALL TO REMAIN

EXIST THROUGH—WALL FLASHING; CUT FLUSH WITH FACE OF MASONRY

EXIST PRE-CAST CONCRETE CLADDING TO REMAIN

BONDING/COURSING PATTERN OF EXISTING

INSTALLATION OF FLASHINGS. REINSTALL MASONRY MATCHING

O.C. & REPOINT W/ MORTAR (DO <u>NOT</u> INSTALL SEALANT!!)

MEMBRANE AND INSTALL 6" WIDE COVER PLATE, FABRICATE HORIZONTAL FLANGE WITH SLOPE TOWARDS THE EXTERIOR, SET

### **FASTENER SCHEDULE**

FASTEN COMPONENTS IN ACCORDANCE WITH THE FOLLOWING FASTENER SCHEDULE, DRAWINGS AND SPECIFICATIONS, WHICHEVER IS MOST STRINGENT. SPECIAL CARE MUST BE TAKEN AT BUILDING CORNERS WHERE FASTENER SPACING IS REDUCED (NUMBER OF FASTENERS ARE INCREASED).

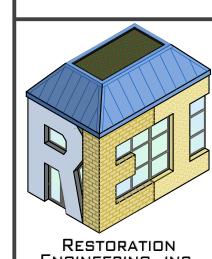
ELEMENT		SUBSTRATE	FASTENER	CONNECTION TYPE	SPACING
WOOD NAILER/BLOCKING (HORIZONTAL)	to	MASONRY/CONCRETE	½" Ø SS ANCHOR BOLTS	PRE-DRILLED HOLES (SEE NOTE 1)	48" O.C.; WITHIN 10' OF CORNERS PROVIDE FASTENERS 24" O.C. (SEE NOTE 2)
WOOD NAILER/BLOCKING (VERTICAL)	to	MASONRY	½" Ø SS NAILINS OR TAPCONS	DIRECT/ PRE-DRILL	12" O.C., STAGGERED; WITHIN 8' OF CORNERS PROVIDE FASTENERS 6" O.C. (SEE NOTE 2)
WOOD NAILER/BLOCKING	to	GYPSUM DECKING	¾" Ø TOGGLE BOLT	PRE-DRILL	24" O.C. (SEE NOTE 2); AT PENETRATIONS, PROVIDE MIN. 2 PER SIDE; AT SMALL CURBS (e.g. ROOF HATCH CURB, EXHAUST FAN CURB, ETC.), PROVIDE MIN. 3 PER SIDE
WOOD NAILER/BLOCKING	to	STEEL DECKING	SS, #12 SELF-TAPPING SCREWS (LENGTH AS REQ. TO PENE. 3 THREADS, MIN)	DIRECT-SELF TAP	12" O.C., STAGGERED; WITHIN 8' OF CORNERS PROVIDE FASTENERS 6" O.C. (SEE NOTE 2)
WOOD NAILER/BLOCKING	to	STEEL FRAMING	SS, #12 SELF-DRILLING SCREWS (LENGTH AS REQ. TO PENE. 3 THREADS, MIN)	DIRECT-SELF DRILL	12" O.C., STAGGERED; WITHIN 8' OF CORNERS PROVIDE FASTENERS 6" O.C. (SEE NOTE 2)
WOOD NAILER (HORIZONTAL OR VERTICAL)	to	WOOD NAILER (HORIZONTAL)	12d SS NAILS	DIRECT	12" O.C., STAGGERED; WITHIN 8' OF CORNERS PROVIDE FASTENERS 6" O.C. (SEE NOTE 2)
WOOD NAILER (VERTICAL)	to	WOOD NAILER (VERTICAL)	12d SS NAILS	TOE NAILED	12" O.C.; WITHIN 8' OF CORNERS PROVIDE FASTENERS 6" O.C. (SEE NOTE 2)
WOOD CANT	to	WOOD CURB	#14, 3" SS SCREWS W/1 1/4" PENETRATION	DIRECT	12" O.C., STAGGERED; WITHIN 8' OF CORNERS PROVIDE ANCHORS 6" O.C. (SEE NOTE 2)
CONTINUOUS CLEAT (PERIMETER FLASHINGS)	to	WOOD NAILER/BLOCKING	2" SS ROOFING NAIL W/ 3/16" Ø HEAD, MIN.	DIRECT	6" O.C., MAX.; WITHIN 8' OF CORNERS PROVIDE FASTENERS 3' O.C. (SEE NOTE 2)
CONTINUOUS CLEAT (PERIMETER FLASHINGS)	to	MASONRY/CONCRETE	1½" LONG, ¼" Ø SS NAILINS	DIRECT	6" O.C., MAX.; WITHIN 8' OF CORNERS PROVIDE FASTENERS 3' O.C. (SEE NOTE 2)
GRAVEL STOP/DRIP EDGE	to	WOOD NAILER	1¾" SS ROOFING NAIL W/ ¾6" Ø HEAD, MIN.	DIRECT	3" O.C., STAGGERED
METAL COPING	to	WOOD NAILER/BLOCKING	2" LONG, #10 SS SCREW W/NEOPRENE WASHER	DIRECT	16" O.C., MAX.; WITHIN 8' OF CORNERS PROVIDE FASTENERS 8' O.C. (SEE NOTE 2)
TERMINATION BAR	to	MASONRY/CONCRETE	¼" Ø SS NAILINS OR TAPCONS	PRE-DRILL	6" O.C.
TERMINATION BAR	to	STEEL STUD FRAMING	SS, #12 SELF-DRILLING SCREWS (LENGTH AS REQ. TO PENE. 3 THREADS, MIN)	DIRECT-SELF DRILL	EVERY STUD
METAL COUNTERFLASHING	to	METAL RECEIVER	SS, #10 SCREW W/NEOP. WASHER (LENGTH AS REQ. TO PENE. 3 THREADS, MIN)	DIRECT-SELF TAP	24" O.C. (MIN. 2 PER SIDE AT CURBS)
WOOD SHEATHING	to	STUD FRAMING/ CURB	8d SS COMMON NAILS	DIRECT	12" O.C. @ INTERIOR STUDS, 6" O.C. @ BOARD EDGES
WOOD SHEATHING	to	WOOD BLOCKING	8d SS COMMON NAILS	DIRECT	12" O.C. @ INTERIOR, 6" O.C. @ BOARD EDGES
WOOD SHEATHING	to	MASONRY WALL	½" Ø NAILINS OR TAPCONS	DIRECT/ PRE-DRILL	12" O.C. @ INTERIOR, 6" O.C. @ BOARD EDGES
NOTE 1		HOLES MUST BE BLOWN-OUT AN	   ID BRUSHED PRIOR TO INSTALLATIO	N OF FASTENER	
NOTE 2	+	WITHIN 8' OF CORNERS DECREA	ASE FASTENER SPACING TO HALF O	FLISTED VALUE	

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/REVISION						
SUBMISSIONS/REVISIONS	01 $  02/11/2020   80\%$ SUBMISSION SET	02   02/28/2020   95% SUBMISSION SET	BID SET		-	
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REPLACEMENT

CITY PUBLIC SCI

RAYBURN AVENUE
ORIA, VIRGINIA 2233 ROOF RI ADAMS EI XANDRIA CI 5651 RAY ALEXANDRIA JOH



ENGINEERING, INC. 10503 West Drive, Suite A FAIRFAX, VA 22030 ISOMETRIC DETAILS
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REI PROJECT NUMBER: CAD FILE: 908.024

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