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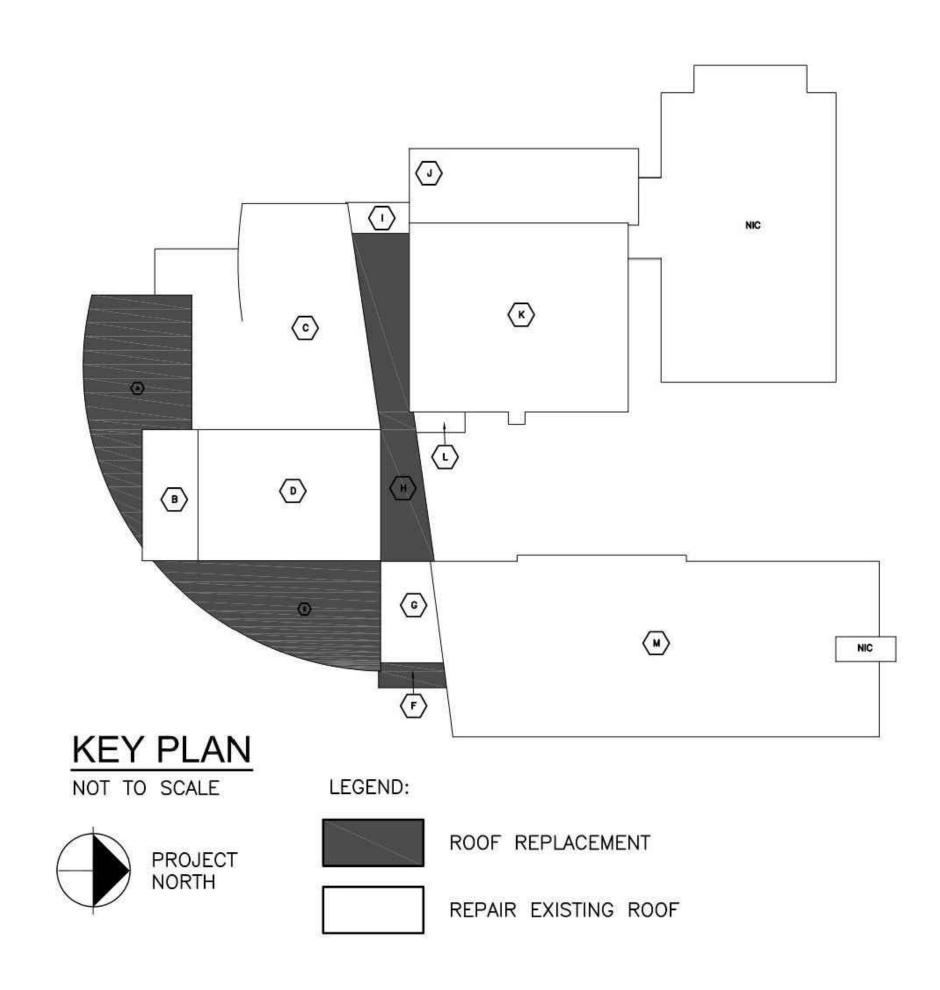
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## PUTNAM VALLEY HIGH SCHOOL PARTIAL ROOF REPLACEMENT + REPAIR

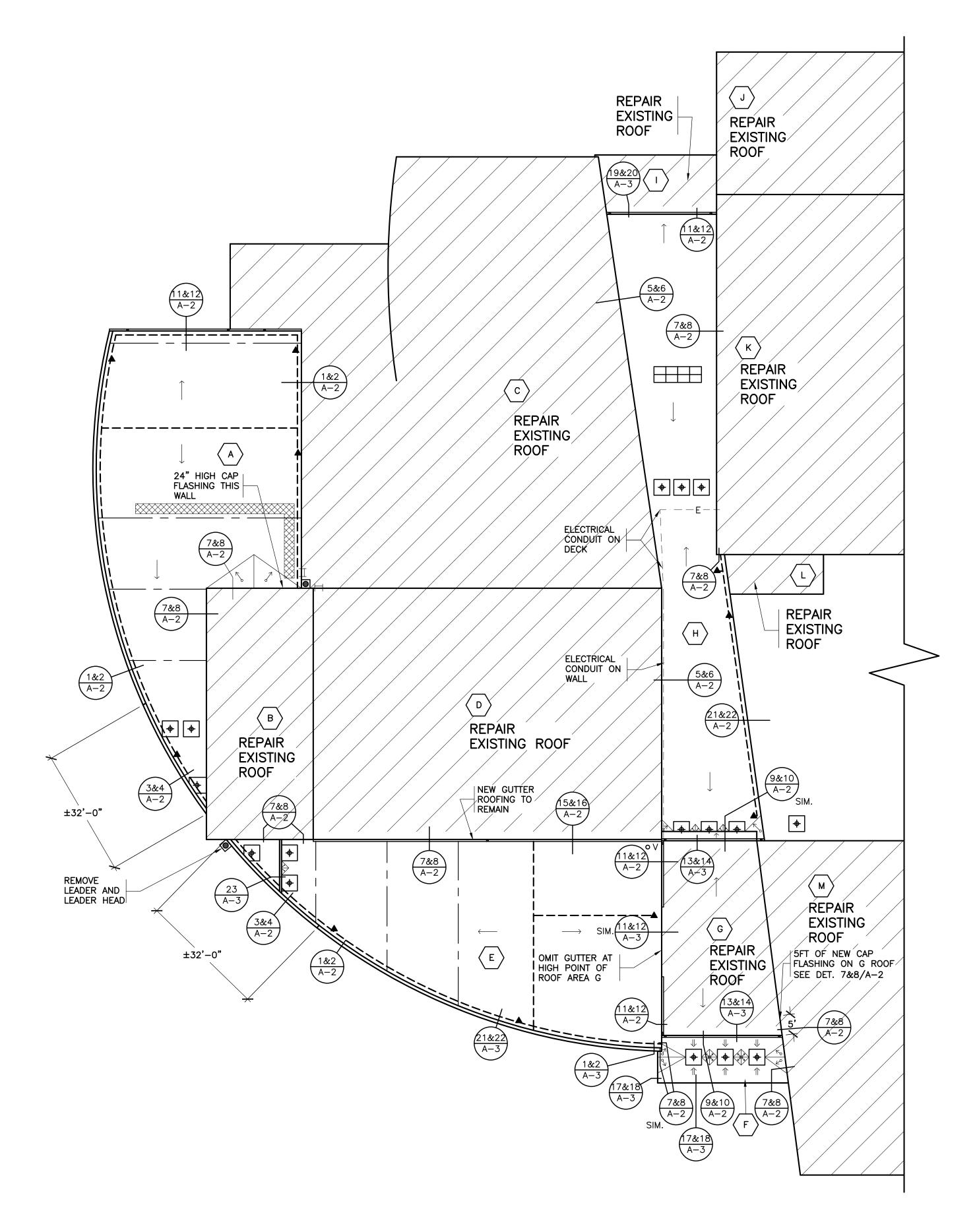
### Putnam Valley Central School District

171 Oscawana Lake Road Putnam Valley, New York 10579



### LIST OF DRAWINGS:

GENERA	NL
T-1	TITLE SHEET
A-1	PUTNAM VALLEY HIGH SCHOOL ROOF PLAN
A-2	ROOF DETAILS 1 - 12
A-3	ROOF DETAILS 13 - 24
A-4	ROOF DETAILS 25 - 30



#### **GENERAL NOTES:**

1. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE

3. TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY

A.CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE

B.COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE

C.PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON

5. REMOVE AND REMOUNT LIGHT FIXTURES, ELECTRICAL BOXES, PA SPEAKERS, AND ALARM SIRENS, ON THE FACADE, JUST BELOW THE NEW EAVE METAL.

7. REPAIR EXHAUST EQUIPMENT HOUSINGS SO THEY ARE WATERTIGHT; REPLACE ANY MISSING PIECES.

8. REMOVE, MODIFY AND REMOUNT THE EXISTING LADDERS - REWORK THEM SO THEY ARE OSHA

NEW BACKER ROD AND SEALANT.

10. INSULATE EXISTING DRAIN LINES WHERE EXPOSED INSIDE THE BUILDING, ALL NEW DRAIN LINES, AND THE UNDERSIDES OF THE NEW DRAIN BOWLS.

11. INSTALL GRANULAR SURFACED SBS MODIFIED BITUMEN ROLL ROOFING TARGET PATCHES TO REPAIR AREAS F THROUGH L WHERE INDICATED ON THE ROOF WITH SPRAY PAINT.

B.CUT AND REMOVE THE EXISTING BLISTERS AND RIDGES.

C.PRIME THE REPAIR AREA AND ALLOW THE PRIMER TO DRY.

D.TORCH APPLY THE TARGET PATCHES.

SURFACE.

ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION	AVERAGE R-VALUE OF NEW INSULATION		
Α	METAL	5.5"	30	5.5"	31.9		
B-D	NIC						
Ε	METAL	5.5"	30	5.5"	31.9		
F	METAL	5.5"	30	5.8"	33.6		
G	NIC						
Н	METAL	5.5"	30	5.5"	31.9		

INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 4/5.

OF FLAT ISOCYANURATE INSULATION.

THICKNESS 5-1/2 INCHES UNLESS OTHERWISE NOTED. INSTALL THE ISOCYANURATE INSULATION IN MULTIPLE LAYERS, WITH THE THICKEST LAYER BEING 4 INCHES. STAGGER ALL JOINTS BETWEEN LAYERS 12 INCHES.

4.INSTALL ISOCYANURATE INSULATION CRICKETS OVER THE TAPERED INSULATION. 5.INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS.

CONFIRMED BY THE CONTRACTOR.

2. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.

OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.

COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.

COMPLETION OF THE PROJECT.

4. REMOVE EXISTING ROOF TOP ELECTRICAL CONDUIT AND GAS PIPE SUPPORTS. RE-SET THE CONDUIT AND PIPES ON ADJUSTABLE HEIGHT FACTORY MANUFACTURED PIPE SUPPORTS PLACED ON WALKWAY PADS SPACED 5 FEET ON CENTER. SECURE THE CONDUITS AND PIPES TO THE PIPE SUPPORTS WITH GALVANIZED CLIPS & BOLTS.

6. WIRE BRUSH, PRIME & PAINT ALL ROOF TOP EQUIPMENT HOUSINGS, EXTERIOR & INTERIOR ACCESS LADDERS, BULKHEAD DOORS & DOOR FRAMES (BOTH SIDES), GAS LINES, AND THE VENT PIPES. DO NOT PAINT OVER EQUIPMENT NAME PLATES AND LABELS.

COMPLIANT. SCRAPE, PRIME AND PAINT THE LADDERS. FILL OLD FASTENER HOLES WITH COLOR MATCHING

9. RE-CAULK ALL VERTICAL MASONRY CONTROL AND EXPANSION JOINTS IN THE CHANGE IN ELEVATION WALLS ABOVE LOWER-LEVEL ROOFS. REMOVE EXISTING SEALANT AND BACK UP MATERIALS, AND INSTALL

A.DRY AND CLEAN THE REPAIR AREA.

E.APPLY ACRYLIC COATING ON THE TARGET PATCH, TO MATCH THE COLOR OF THE ADJOINING ROOF

12. LIGHTNING PROTECTION AIR TERMINALS NOT SHOWN, REMOVE, MODIFY AND RESET.

AREA A	DECK TYPE METAL	OF NEW INSULATION 5.5"	OF NEW INSULATION 30	OF NEW INSULATION 5.5"	OF NEW INSULA		
B-D							
Е	METAL	5.5"	30	5.5"	31.9		
F	METAL	5.5"	30	5.8"	33.6		
G	NIC						
Н	METAL	5.5"	30	5.5"	31.9		
NOTE	S:						

2.INSTALL 3 INCH THICK LAYER OF FLAT ISOCYANURATE INSULATION OVER A 2-1/2 INCH THICK LAYER 3.INSTALL TAPERED ISOCYANURATE INSULATION THAT SLOPES 1/8 INCH PER FOOT; MINIMUM STARTING

**LEGEND:** CODE COMPLIANCE REQUIREMENTS:

ROOF AREA DESIGNATION

(SEE DET. 11&12/A-2, 13-15/A-3)

GUTTER & LEADER

(SEE DET. 24/A-3)

(SEE DET. 25/A-4)

(SEE DET. 26/A-4)

(SEE DET. 27/A-4)

(SEE DET. 29/A-4

PIPE SNOW GUARD

(SEE DET. 31/A-4)

ELECTRICAL CONDUIT

AREA-ROOFING TO REMAIN

(SEE NOTE 4)

ROOF LADDER

⇒ SLOPE 1/8" PER FT

→ DECK SLOPE

WALKWAY PADS

(SEE NOTE 8)

REPAIR EXISTING

(SEE DET. 28-30/A-4)

LIGHTNING CABLE PENETRATION

TAPERED ISOCYANURATE INSULATION,

LIGHTNING CABLE

LEADER HEAD

ROOF DRAIN

VENT PIPE

SKYLIGHT

1. INSTALL NEW ROOFING TO MEET THE FOLLOWING MINIMUM REQUIREMENTS: A. NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, WHICH INCLUDES BY REFERENCE THE NEW YORK STATE ENERGY CONSERVATION CODE.

B. UNDERWRITERS LABORATORIES INC. CLASS A EXTERNAL FIRE RATING FOR ROOF ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E 108 OR

C. UNDERWRITERS LABORATORIES INC. STANDARD 1256 FOR ROOF ASSEMBLIES WITH FOAM INSULATION.

2. INSTALL ROOFING TO COMPLY WITH THE WIND UPLIFT REQUIREMENTS OF THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, BASED ON THIS CRITERIA:

RISK CATEGORY III BASIC WIND SPEED 130 MPH EXPOSURE CATEGORY B BUILDING HEIGHT 30 FT.

3. INSTALL ROOFING AS INDICATED TO RESIST THE FOLLOWING UPLIFT LOADS, CALCULATED IN ACCORDANCE WITH ASCE 7 USING A SAFETY FACTOR OF 2: FIELD ZONE: 90 PSF

4. FABRICATE AND INSTALL ROOF PERIMETER FLASHINGS THAT COMPLY WITH THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND WITH ANSI/SPRI ES-1 "WIND STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING

LIGHTNING PROTECTION SYSTEM NOTES

AND SHALL BE VERIFIED BY THE CONTRACTOR. REFER TO THE

2. CAREFULLY DISCONNECT, SAVE AND SET ASIDE LIGHTNING PROTECTION SYSTEM COMPONENTS AS NEEDED TO PERFORM THE ROOF REHABILITATION WORK INDICATED.

3. REINSTALL AND RESET LIGHTNING SYSTEM COMPONENTS TO MATCH THE ORIGINAL CONFIGURATION, WITH NEW FLASHINGS AT THE CABLE

4. PROVIDE NEW MOUNTING BRACKETS, CLIPS, CABLE SPLICES, SECTIONS OF CABLE, AND SIMILAR COMPONENTS, TO REPLACE ANY THAT CAN'T BE

5. WORK ON THE LIGHTNING PROTECTION SYSTEM WORK SHALL BE PERFORMED BY PERSONNEL THAT HAVE PERFORMED THE SAME TYPE OF WORK FOR AT LEAST 5 YEARS.

**ROOF PROTECTION NOTES:** 

2. DO NOT STORE MATERIAL OR EQUIPMENT, AND DO NOT PILE DEBRIS ON NEW AND EXISTING ROOF AREAS.

MIL FIRE RETARDANT POLYETHYLENE, COVERED WITH 2x10 WOOD PLANKS TO PROTECT ROOFING WHERE CONSTRUCTION WORK AND TRAFFIC WILL OCCUR.

4. NEATLY CUT AND POSITION ROOF PROTECTION COMPONENTS TO FIT WITHIN 1/2 INCH OF ROOF PENETRATIONS, EAVES AND CHANGE IN ELEVATION WALLS.

5. DO NOT COVER THE ROOF DRAINS. MAINTAIN THE ROOF DRAIN

PERIMETER ZONE: 135 PSF CORNER ZONE: 150 PSF

SYSTEMS", ON A BUILDING USING THE CRITERIA DESCRIBED ABOVE.

5. FABRICATE AND INSTALL WOOD BLOCKING COMPONENTS TO RESIST A FORCE OF 275 POUNDS PER LINEAL FOOT APPLIED IN ANY DIRECTION.

1. EXISTING LIGHTNING PROTECTION SYSTEM COMPONENTS ARE NOT SHOWN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PROPERLY REUSED AND RESET.

STRAINERS VISIBLE AND CLEAR AT ALL TIMES.

1. AVOID WALKING ON NEW AND EXISTING ROOF AREAS.

3. INSTALL 1 INCH THICK EXTRUDED POLYSTYRENE INSULATION OVER 6

Professional Seal

No. Date  $\langle M \rangle$ **KEY PLAN** NOT TO SCALE LEGEND: ROOF REPLACEMENT REPAIR EXISTING ROOF Drawn/Checked

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PUTNAM VALLEY

HIGH SCHOOL

PARTIAL ROOF

**REPLACEMENT** 

**REPAIR** 

Putnam Valley

Central School District

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S.E.D. Control No.

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CONSTRUCTION DOCUMENTS

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PARTIAL ROOF

PLAN

1 05/25/2022 CONSTRUCTION DOCUMENTS

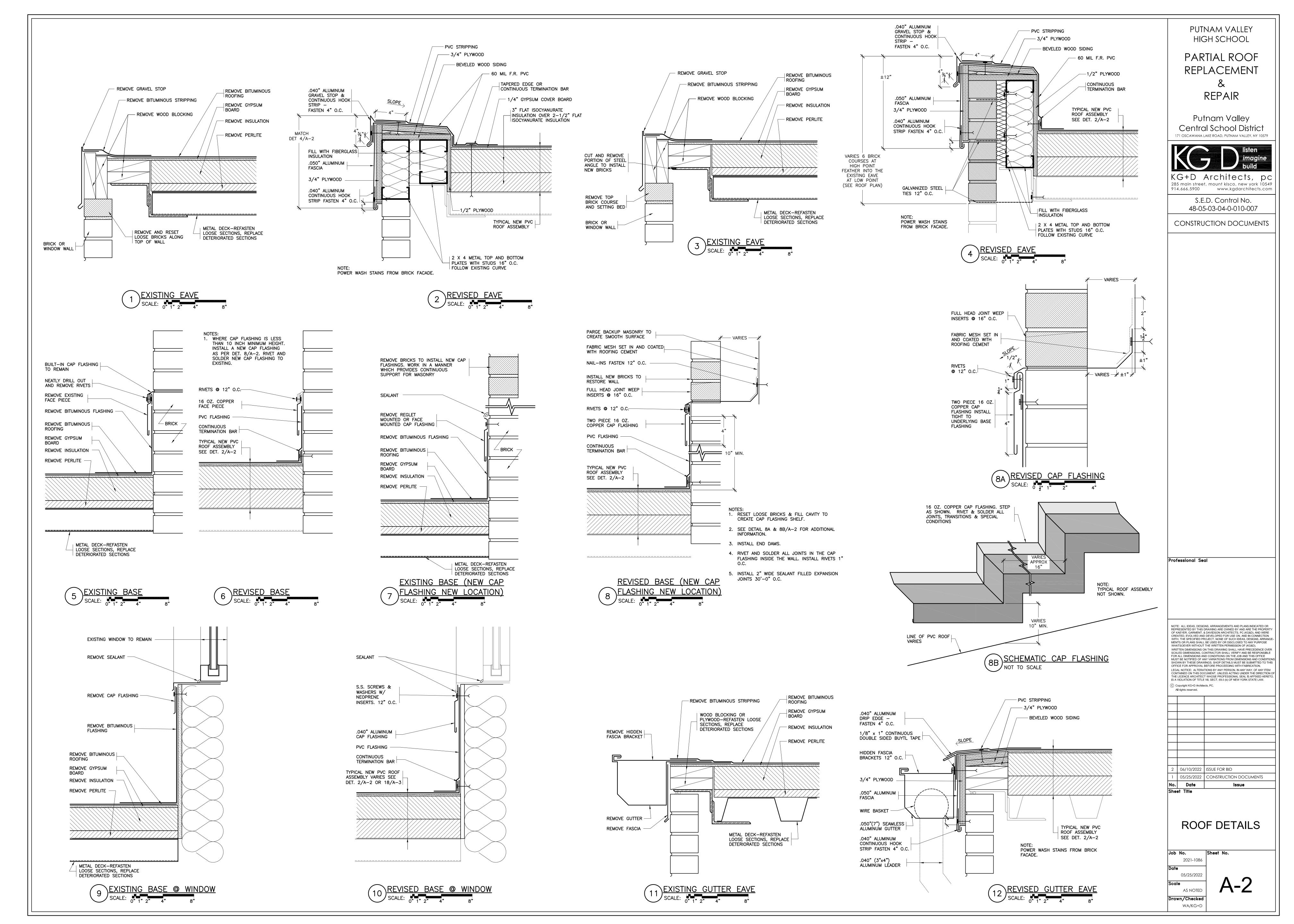
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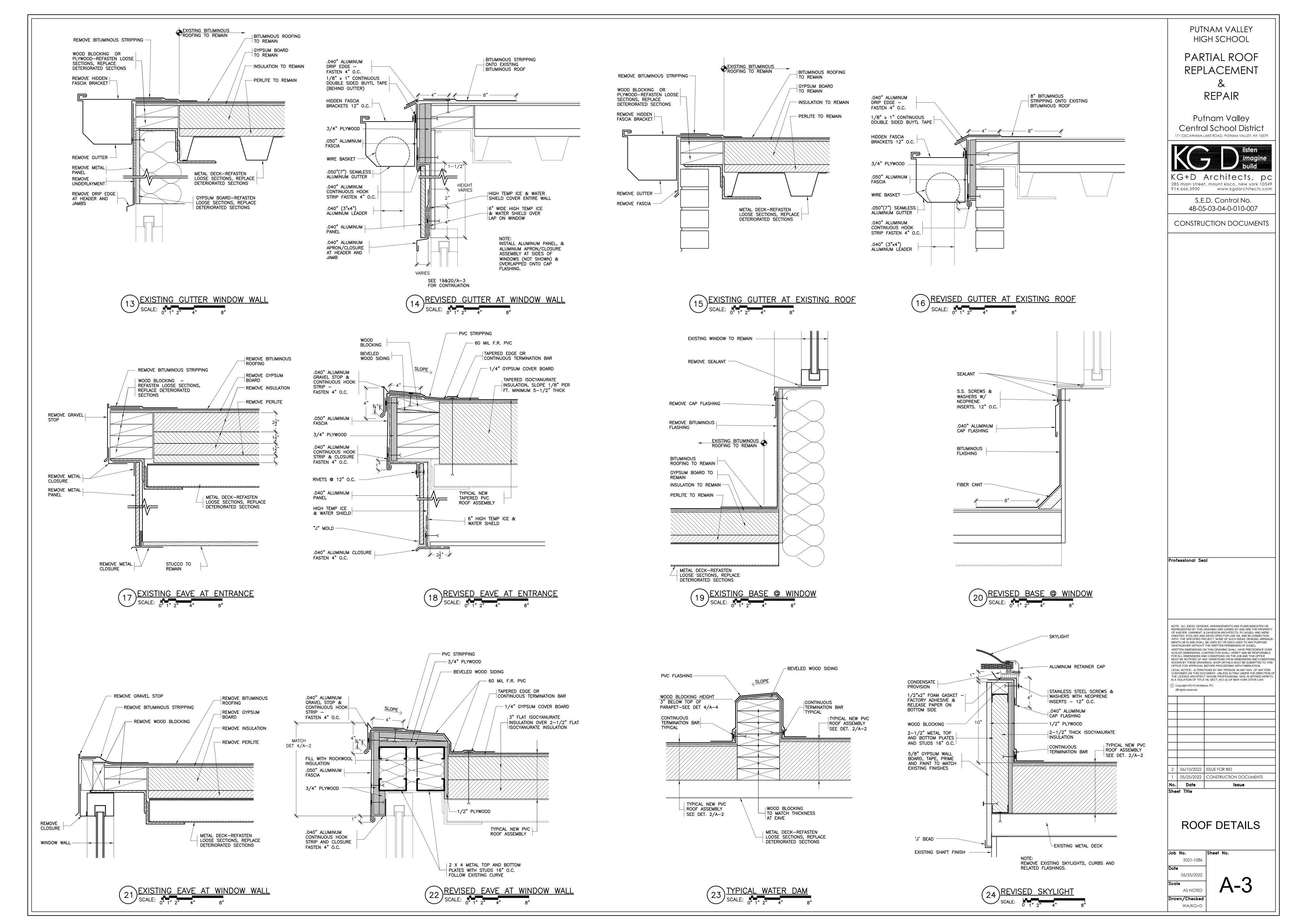
**AS NOTED** 

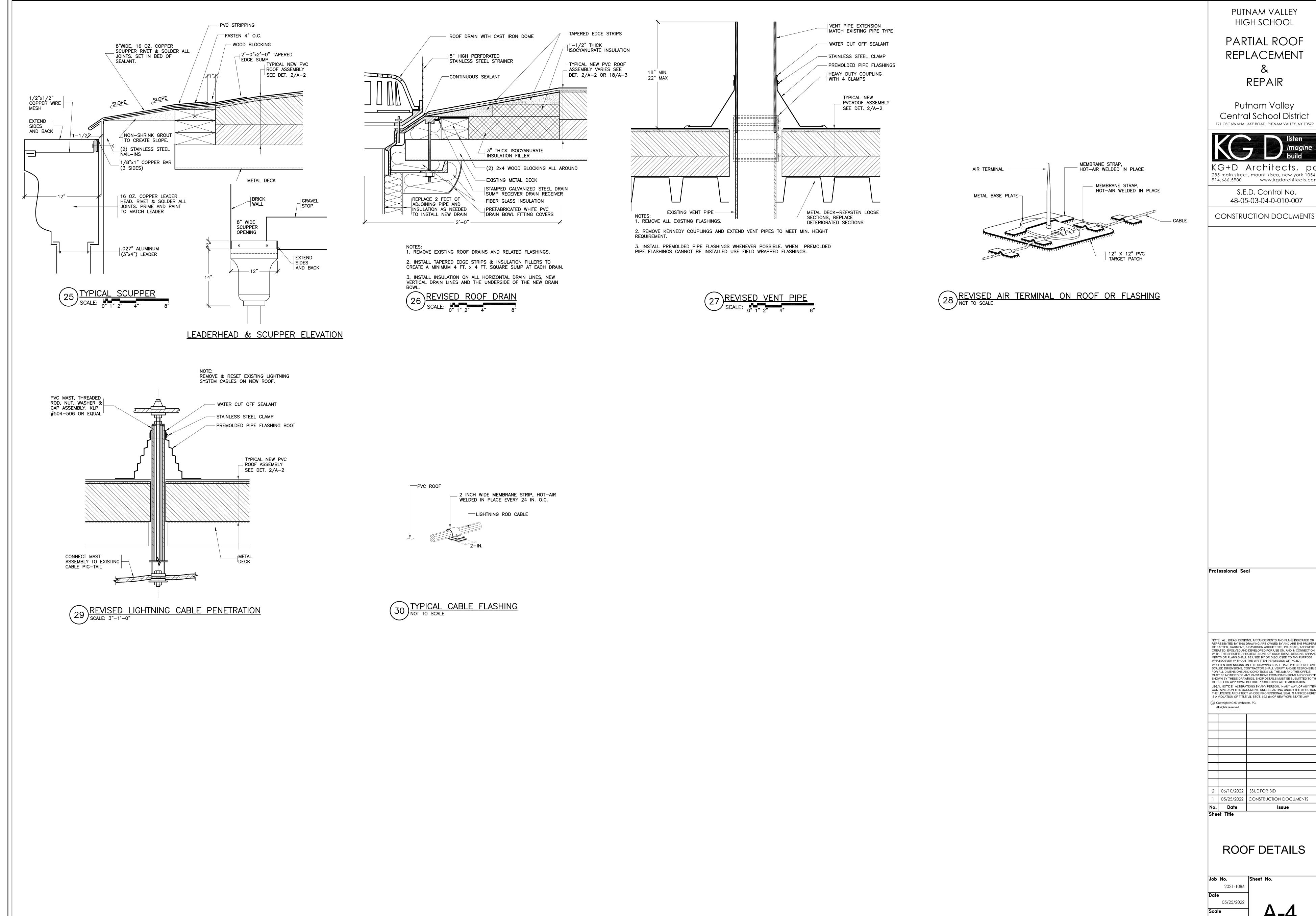
WA/KG+D

A-1

PARTIAL ROOF PLAN 0'4'8' 16'







Central School District



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