ADDENDUM #1

Project Name:
Plumb Grove Roof Replacement
DAS#9228.00
RFQ 922800-01
Addendum #1
Dated: March 3, 2022

This Addendum forms a part of the bidding and contract documents. This Addendum supersedes and supplements all portions of the original bidding and contract documents dated February 11, 2022 with which it conflicts.

ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM. FAILURE TO DO SO MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

1. SPECIFICATIONS

A. NONE

2. DRAWINGS

A. Revised full set of bid drawings. (G2, G2, A1, A2 & A3)

3. QUESTIONS AND CLARIFICATIONS

A. Is a bid bond required with this RFQ? *A> No bid bond is required with an RFQ. P&P bonds are required and provided by the contractor at the time the contract is signed.*

B. Can we see the drone footage of the existing roof? *A> Follow the link for the drone footage.*

C. What fasteners are called out for the new shingles? *A> See the revised specifications for clarification on the fasteners.*

D. Is there power available on site? *A> Yes, power is available on site. Power will be able to be used from an outside outlet during open hours.*

E. Will the contractor be able to have a key for the gate? *A> Yes, A key for the gate will be provided to the contractor for use during the roofing project. Contractor is to keep the gate closed while working on the roof. Contractor is also reminded not to block any of the drive ways on Carroll Street.*

4. ATTACHMENTS

A. G-1 – Cover Sheet

B. G-2 – Specifications

C. A-1 – Roof Plan

D. A-2 – Elevations

E. A-3 - Details.

END OF ADDENDUM

PLUM GROVE HISTORIC HOUSE ROOF REPLACEMENT

DAS PROJECT NO. 9228.00

3 SITE
SCALE: 1" =100'

0 50' 100' 200'

.DING INFORMATION

LE BUILDING CODE - 2015 IEBC AND IPC
:ATION OF WORK - REPAIR

/ENT OF DAMAGED MATERIALS (SIDING) FOR THE
OF MAINTINING COMPONENTS IN SOUND CONDITION
PECT TO EXISTING LOADS OR PERFORMANCE
/ENTS.
IANCE REQUIREMENT (601.2) - THE WORK SHALL NOT
BUILDING LESS CONFORMING THAT IT WAS BEFORE
IR WAS UNDERTAKEN.

GUTTER AND DOWNSPOUT SIZE VALIDATED PER IPC

JECT DIRECTORY

OWNER
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES (DAS)
109 EAST 13TH STREET
DES MOINES, IA 50319
OWNER'S REPRESENTATIVE: JAMES TROWER
PHONE: 515.725.4150
EMAIL: JAMES.TROWER@IOWA.GOV

CONSTRUCTION MANAGER
THE SAMUELS GROUP
2929 WESTON PARKWAY SUITE 200
WEST DES MOINES, IA 50266
PROJECT MANAGER: BRIAN POLZIN
PHONE: 715.841.1982
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ARCHITECT
HORIZON ARCHITECTURE
3116 ALPINE COURT IOWA CITY IA 52245
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EMAIL: MICHAEL@HORIZON-ARCHITECTURE.COM

SHEET INDEX	
ID	Name
G-1	COVER SHEET
1 G-2	SPECIFICATIONS
1 A-1	ROOF PLAN
1 A-2	ELEVATIONS
1 A-3	DETAILS

GRAPHIC SYMBOLS

WINDOW MARKER — W01

SKYLIGHT MARKER — S01

DOOR IDENTIFIERS
DOOR IDENTIFIER (ELEVATIONS/SECTIONS) — D01.1
6" TYPICAL, UNLESSOTHERWISE NOTED
DOOR IDENTIFIER (PLANS) — D01.1

SECTION / DETAIL MARKER
XX / YY — INDICATES SECTION LOCATION ON SHEET; INDICATES SHEET ON WHICH DRAWING IS SHOWN

INTERIOR ELEVATION MARKER
A1 / A2 / B2 / C3 / D1 — INDICATES ELEVATION LOCATION ON SHEET; INDICATES SHEET ON WHICH ELEVATION IS SHOWN

ELEVATION / SECTION MARKER
XX / YY — INDICATES ELEVATION LOCATION ON SHEET; INDICATES SHEET ON WHICH DRAWING IS SHOWN

DETAIL / ENLARGED PLAN MARKER
XX / YY — INDICATES DETAIL LOCATION ON SHEET; INDICATES SHEET ON WHICH DETAIL IS SHOWN

SPACE DESIGNATION
OFFICE — SPACE NAME
003 — SPACE NUMBER
1/A-201 — ENLARGED PLAN REFERENCE

WALL TYPE MARKER (SEE PARTITION LEGEND) — 4C

KEYNOTE IDENTIFIER
1.01.01 — KEYNOTE; SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT
1.01.01 — ALTERNATE KEYNOTE; SEE KEYNOTE LEGEND ON DRAWING'S LAYOUT

ABBREVIATIONS

A.D.	AREA DRAIN	DN	DOWN	HORIZ.	HORIZONTAL	PL. LAM	PLASTIC LAMINATE	U.L.	UNDERWRITERS LABORATORIES
ABV.	ABOVE	DWG.	DRAWING	HT.	HEIGHT	QTY.	QUANTITY	VEST.	VESTIBULE
ADA	ACCESSIBLE / AMERICANS WITH DISABILITIES ACT	DEPT.	DEPARTMENT	INSUL.	INSULATION / INSULATING	R	RISER	V.C.T.	VINYL COMPOSITION TILE
ADJ.	ADJUSTABLE	DBL.	DOUBLE	I.D.	INSIDE DIAMETER	R.W.C.	RAIN WATER CONDUCTOR	W	WITH
A.a.R.	AREA OF REFUGE	DIM.	DIMENSION	INCAND.	INCANDESCENT	REINF.	REINFORCING / REINFORCED	W.C.	WATER CLOSET
ALUM.	ALUMINUM	DR.	DOOR	JAN.	JANITOR	REQ.	REQUIRED	WD	WOOD
ALT.	ALTERNATE	EXIST.	EXISTING	JT.	JOINT	R.O.	ROUGH OPENING		
A.F.F.	ABOVE FINISHED FLOOR	EQ.	EQUAL	LBS.	POUNDS	REV.	REVISED / REVISION	&	AND
AC.	ACOUSTIC / ACOUSTICAL	E.C.	ELECTRICAL CONTRACTOR	LAV.	LAVATORY	REFL.	REFLECTED	@	AT
A.F.	ALUMINUM FACE	EL.	ELEVATION	LAM.	LAMINATE	REC.	RECESSED	±	PLUS OR MINUS
APPX.	APPROXIMATE / APPROXIMATELY	ELEV.	ELEVATOR	L.P.	LOW POINT	RAD.	RADIUS	°	DEGREE
BD.	BOARD	ELEC.	ELECTRIC / ELECTRICAL	MAX.	MAXIMUM	S.S.	STAINLESS STEEL	∠	ANGLE
BLK.	BLOCK / BLOCKING	EXP.	EXPANSION	MFR.	MANUFACTURER / MANUFACTURED	ST.	STREET	[	CHANNEL
BLDG.	BUILDING	EXT.	EXTERIOR	MTL.	METAL	SIM.	SIMILAR	#	NUMBER
B.O.	BOTTOM OF	EA.	EACH	MIN.	MINIMUM	STL.	STEEL	□	SQUARE
B.O.S.	BOTTOM OF STEEL	F.D.	FLOOR DRAIN	MIRR.	MIRRORED	SQ.	SQUARE	Ø	ROUND / DIAMETER
CAB.	CABINET	F.E.	FIRE EXTINGUISHER	MTD.	MOUNTED	SAN.	SANITARY	℄ / C.L.	CENTER LINE
C.C.	CENTER-TO-CENTER	F.E.C.	FIRE EXTINGUISHER CABINET	M.O.	MASONRY OPENING	SUSP.	SUSPENDED	⏥ / PL.	PLATE
CLG.	CEILING	FIN.	FINISH / FINISHED	MISC.	MISCELLANEOUS	STD.	STANDARD	⊓	U-BAR
CLOS.	CLOSET	FLR.	FLOOR	MECH.	MECHANICAL	SPEC.	SPECIFICATION	∟	LEG-BAR
C.M.	CONSTRUCTION MANAGER	F.O.	FACE OF	N.I.C.	NOT IN CONTRACT	TEL.	TELEPHONE		
CMU	CONCRETE MASONRY UNIT	FT.	FEET / FOOT	NO.	NUMBER	T.O.	TOP OF		
C.J.	CONTROL JOINT	FLUOR.	FLUORESCENT	N.T.S.	NOT TO SCALE	T.O.S.	TOP OF STEEL		
CONC.	CONCRETE	GYP.	GYPSUM	O.C.	ON CENTER	T.O.W.	TOP OF WALL		
CORR.	CORRIDOR	GALV.	GALVANIZED	O.D.	OUTSIDE DIAMETER	TOIL.	TOILET		
COL.	COLUMN	GA.	GAUGE	OPP.	OPPOSITE	TYP.	TYPICAL		
CONT.	CONTINUE / CONTINUOUS	G.C.	GENERAL CONTRACTOR	OPG.	OPENING	THK.	THICK		
CONTR.	CONTRACTOR	HR.	HOUR	P.C.	PLUMBING CONTRACTOR	TMP.	TEMPERED		
DIA.	DIAMETER	H.P.	HIGH POINT	P.F.	PANEL FACE	T.S.G.	TEMPERED SAFETY GLASS		
DTL.	DETAIL	HVAC	HEAT, VENTILATION, AIR-CONDITIONING	PR.	PAIR	U.O.N.	UNLESS OTHERWISE NOTED		
				P.T.	PRESSURE TREATED				

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

ISSUED FOR PERMIT AND CONSTRUCTION

horizon. original. architecture.

PROFESSIONAL ARCHITECT — MICHAEL J. NOLAN — LICENSED — IOWA

9228.00 DCA PLUM GROVE ROOF REPLACEMENT
1030 Carroll Street
Iowa City, IA 52240

MARK	DATE	DESCRIPTION

PROJECT NO: #Pln
DATE: 3/19/2018
DRAWN BY: MSN
COPYRIGHT

SHEET TITLE
COVER SHEET

G-1

C:\Users\niken\OneDrive - Horizon Architecture\My Drive\Horizon\Projects\General Projects\G21-015 DAS Plum Grove Roof\1 - Model and Design\Plum Grove Historic House Roof Replacement.pln

SECTION 06 1000
ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Sheathing.
B. Concealed wood blocking, nailers, and supports.
C. Miscellaneous wood nailers, furring, and grounds.

1.2 REFERENCE STANDARDS

A. ASTM D3498 - Standard Specification for Adhesives for Field-Gluing Wood Structural Panels (Plywood or Oriented Strand Board) to Wood Based Floor System Framing 2018a.
B. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials 2013.
C. ASTM E2357 - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies 2018.
D. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials 2016.
E. ICC-ES AC310 - Acceptance Criteria for Water-resistive Membranes Factory-bonded to Wood-based Structural Sheathing, Used as Water-Resistive Barriers 2008, with Editorial Revision (2015).
F. PS 1 - Structural Plywood 2009.
G. PS 2 - Performance Standard for Wood-Based Structural-Use Panels 2010.
H. PS 20 - American Softwood Lumber Standard 2015.

1.3 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

1.4 WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
   1. Species: Douglas Fir-Larch, unless otherwise indicated.
   2. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
   3. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
   4. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.

2.2 DIMENSIONAL LUMBER FOR CONCEALED APPLICATIONS

A. Sizes: Nominal sizes
B. Moisture Content: S-dry or MC19.

2.3 CONSTRUCTION PANELS

A. Roof Sheathing: Any PS 2 type, rated Structural I Sheathing.
   1. Bond Classification: Exterior.
   2. Span Rating: 48/24.
   3. Thickness: Match Existing.

2.4 ACCESSORIES

A. Fasteners and Anchors:
   1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
B. Construction Adhesives: Adhesives complying with ASTM C557 or ASTM D3498.

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate installation of rough carpentry members specified in other sections.

3.2 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.
B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

3.3 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

3.4 INSTALLATION OF CONSTRUCTION PANELS

A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.
   1. Nail panels to framing; staples are not permitted.

3.5 TOLERANCES

A. Variation from Plane (Other than Floors): 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.6 FIELD QUALITY CONTROL

A. See Section 01 4000 - Quality Requirements, for additional requirements.

END OF SECTION

SECTION 07 0150
PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Cedar shake and selective roofing system component removal for new roof membrane installation.
B. Existing Roofing System: Cedar Shakes
   1. Cedar Shakes.
   2. Underlayment.
   3. Plywood Roof Sheathing.

1.2 FIELD CONDITIONS

A. Building Occupancy: Perform work to minimize disruption to normal building operations.
   1. Verify occupants are evacuated from affected building areas when working on structurally impaired roof decking above occupied areas.
   2. Provide notice minimum 72 hours before beginning activities affecting normal building operations.
B. Existing Roofing Available Information:
   1. The following are available for Contractor reference:
      a. Construction drawings.
   2. Examine available information before beginning work of this section.
C. Weather Limitations: Proceed with reroofing preparation only during dry weather conditions as specified for new roofing installation.
   1. Remove only as much roofing in one day as can be made watertight in same day.
D. Hazardous materials are not expected in existing roofing system.
   1. Do not disturb suspected hazardous materials. When discovered, notify Construction Manager.

PART 2 PRODUCTS

2.1 MATERIALS

A. Patching Materials: Match existing roofing system materials.
B. Temporary Protection Materials:
   1. Expanded Polystyrene (EPS) Insulation: ASTM C578.
   2. Plywood: NIST DOC PS 1, Grade CD Exposure 1.
   3. Oriented Strand Board (OSB): NIST DOC PS 2, Exposure 1.
C. Temporary Roofing System Materials: Contractor's option.

PART 3 EXECUTION

3.1 PREPARATION

A. Examine and verify substrate suitability for product installation.
B. Protect existing roofing system indicated to remain.
   1. Cover roof membrane with temporary protection materials without impeding drainage.
   2. Limit traffic and material storage to protected areas.
   3. Maintain temporary protection until replacement roofing is completed.
C. Protect existing construction and completed work from damage.
D. Protect landscaping from damage.
E. Maintain access to existing walkways and adjacent occupied facilities.
F. Ensure temporary protection materials are available for immediate use in case of unexpected rain.
G. Ensure roof drainage remains functional.
   1. Keep drainage systems clear of debris.
   2. Prevent water from entering building and existing roofing system.
H. Coordinate rooftop utilities remaining active during roofing work with Construction Manager.

3.2 RE-ROOFING PREPARATION - GENERAL

A. Notify Owner’s Representative of planned operations, daily.
   1. Identify location and extent of roofing removal.
   2. Request authorization to proceed.

3.3 SELECTIVE ROOFING SYSTEM COMPONENT REMOVAL

A. Remove existing shakes, underlaymeny and accessories in locations and to extent indicated on drawings.
B. Visually inspect roof sheathing for moisture or other degradation immediately following removal of existing underlayment.
   1. Coordinate with Construction Manager to observe inspections.
   2. Identify damaged roofing system components required to be removed.
   3. Mark roofing system removal locations and extents.
C. Remove damaged roofing system components.
D. Patch selective roofing system removals immediately after inspection and repair.
E. Install patching materials to match existing roofing system.

3.4 TEMPORARY ROOFING

A. Install temporary roofing to maintain building watertight.
B. Remove temporary roofing before installing new roofing.

3.5 BASE FLASHING REMOVAL

A. Expose base flashings to permit removal.
   1. Two-Piece Counterflashings: Remove cap flashing and store for reuse.
   2. Single Piece Counterflashings: Carefully bend counterflashing.
B. Remove existing base flashings.
   1. Clean substrates to receive new flashings.
C. Replace counterflashings damaged during removal.
   1. Counterflashings: See Section 076000 SHEET METAL FLASHING AND TRIM.

3.6 FIELD QUALITY CONTROL

A. Field Tests:
   1. Fastener Pull Out Tests: ANSI/SPRI FX-1.
B. Existing Roofing System Warrantor Services:
   1. Inspect reroofing preparation and roofing installation to verify compliance with existing warranty conditions.
   2. Submit reports of field inspections, and supplemental instructions issued during inspections.

3.7 DISPOSAL

A. Collect waste materials in containers.
B. Remove waste materials from project site, regularly, to prevent accumulation.
C. Legally dispose of waste materials.

END OF SECTION

SECTION 07 3129
WOOD SHINGLES AND SHAKES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Wood shingles.
B. Flexible sheet membranes for eave protection, underlayment, and valley protection.
C. Associated metal flashings and accessories.

1.2 RELATED REQUIREMENTS

A. Section 06 1000 - Rough Carpentry: Roof sheathing.

1.3 REFERENCE STANDARDS

A. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection 2021.
B. ASTM D4869/D4869M - Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing 2016a (Reapproved 2021).
C. ASTM D5261 - Standard Test Method for Measuring Mass per Unit Area of Geotextiles 2010 (Reapproved 2018).
D. CSSB (RMAN) - New Roof Construction Manual 2020.
E. CSSB (WEB) - (Grade Standards and Installation Recommendations as Posted at www.cedarbureau.org); Cedar Shake and Shingle Bureau current edition.

1.4 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements for submittal procedures.
B. Product Data: Provide data indicating material characteristics, performance criteria, and limitations.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Wood Shingles and Shakes:
   1. Any producer and member of Cedar Shake and Shingle Bureau (CSSB); www.cedarbureau.org/#sle.

2.2 SHINGLES AND SHAKES

A. Wood Shingles: Western red cedar (Thuja plicata), CSSB (WEB)No. 1 Grade; 16 inches long, standard straight butt style.
   1. Fire Retardance: Provide shingles pressure treated for fire retardance.
   2. Provide CSSB labels in packaging.

2.3 SHEET MATERIALS

A. Ventilation Mat: Polymeric or nylon roof ventilation mat for wood roof sheathing applications.
   1. Thickness: 3/8 inch, nominal.
   2. Width: 39 inches.
   3. Weight per Unit Area: 8.66 oz/sq yd in accordance with ASTM D5261.
   4. Products:
      a. Advanced Building Products, Inc; CedAir-Mat Roof Ventilation Mat: www.advancedbuildingproducts.com/#sle.
      b. Keene Building Products; Viper CDR Vent: www.keenebuilding.com/#sle.
      c. Benjamin Obdyke: Cedar Breather: https://www.buyobdyke.com/cedar-breather/.
      d. Substitutions: As approved by Architect.
B. Eave Protection Membrane: Self-adhering polymer-modified asphalt sheet complying with ASTM D1970/D1970M; 40 mil total thickness; with strippable treated release paper and polyethylene sheet top surface.
C. Underlayment: Asphalt-saturated organic felt underlayment, complying with ASTM D4869/D4869M, minimum 26 lb/100 sq ft (Type IV).
D. Flexible Flashing: Self-adhering polymer-modified asphalt sheet complying with ASTM D1970/D1970M; 40 mil total thickness; with strippable treated release paper and polyethylene sheet top surface.

2.4 METAL FLASHINGS

A. Metal Flashings: Provide sheet metal eave edge, gable edge, chimney flashing, dormer flashing, and other flashing indicated.
   1. Form flashings to protect roofing materials from physical damage and shed water.
   2. Hem exposed edges of flashings minimum 1/4 inch on underside.
B. Sheet Metal: Prefinished aluminum, 26-gauge, 0.017-inch minimum thickness; [________] coating, match existing color.
C. Pipe Flashings: Galvalume/aluminum construction
   1. Retain and reuse existing if serviceable
   2. Retain and reuse or storm collar or provide new.
   3. Duravent 6GVFSR or Approved Equal.

2.5 ACCESSORIES

A. Nails or staples: Stainless steel, of sufficient length to penetrate through roof sheathing or 3/4 inch into roof sheathing or decking.
B. Ridge Vents: Plastic, formed with vent openings that do not permit direct water or weather entry; flanged to receive shingles.
   1. Benjamin Obdyke: Rapid Ridge: https://benjaminobdyke.com/product/rapid-ridge-ridge-vent/
   2. Substitutions: As Approved by Architect

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions prior to beginning work.
B. Replace any damaged or degraded roof sheathing (Unit Cost)
C. Verify that roof penetrations and plumbing stacks are in place and flashed to deck surface.

3.2 PREPARATION

A. At areas where eave protection membrane is to be adhered to substrate, fill knot holes and surface cracks with latex filler.

3.3 INSTALLATION - EAVE PROTECTION MEMBRANE

A. Install eave protection membrane from eave edge to minimum 4 feet upslope beyond interior face of exterior wall.
B. Install eave protection membrane in accordance with manufacturer's instructions.

3.4 INSTALLATION - UNDERLAYMENT

A. At Roof Slopes Greater than 4:12 (1:3): Install underlayment perpendicular to slope of roof, with ends and edges weather lapped minimum 4 inches. Stagger end laps of each consecutive layer. Nail in place. Weather lap minimum 4 inches over eave protection.
B. Items Projecting Through or Mounted on Roof: Weather lap and seal watertight with roof cement.

3.5 INSTALLATION - METAL FLASHING AND ACCESSORIES

A. Install flashings in accordance with CSSB (RMAN) - New Roof Construction Manual.

3.6 INSTALLATION - SHINGLES

A. Install using not less than two fasteners for each shingle.
B. On Roofs: Install to produce straight coursing pattern with 4" or match existing inch weather exposure to produce double thickness.
C. Install with double course at eaves.
D. Project first roofing course Min 1" inches beyond face of fascia boards.

END OF SECTION

SECTION 07 6200
SHEET METAL FLASHING AND TRIM

1

PART 1 GENERAL

1.1 SUMMARY

A. Related Documents:
   1. Drawings and general provisions of the Subcontract apply to this Section.
   2. Review these documents for coordination with additional requirements and information that apply to work under this Section.
B. Section Includes:
   1. Flashing, preformed metal trim, gutters, downspouts and sheet metal work.

1.2 REFERENCES

A. General:
   1. The following documents form part of the Specifications to the extent stated. Where differences exist between codes and standards, the one affording the greatest protection shall apply.
   2. Unless otherwise noted, the referenced standard edition is the current one at the time of commencement of the Work.

1.3 SUBMITTALS

A. Submit under provisions of Division 01 Section SUBMITTAL PROCEDURES.
B. Product Data:
   1. Specifications, materials list and schedule for surface preparation procedures.
   2. Material safety data sheets.
C. Shop Drawings: Details showing each condition separately and cross-referenced with applicable details on the Drawings.

1.4 QUALITY ASSURANCE

A. Comply with pertinent recommendations contained in "Architectural Sheet Metal Manual," latest edition, of the Sheet Metal and Air Conditioning Contractors National Association, Inc.
B. Take field measurements required for proper and adequate fabrication and installation of the work. Exact measurements are the Subcontractor's responsibility. Furnish templates for exact locations of items to be embedded.

1.5 WARRANTY

A. Warranty Period: Per Iowa Statute.

PART 2 PRODUCTS

2.1 MATERIALS

A. General: Furnish sheet metal in minimum 20-gauge, except 24-gauge for downspouts and gutters, or as otherwise indicated. Unless otherwise noted, all sheetmetal shall be galvanized, FS QQ-S-775d, Class d, ASTM A525 Class 1.25 commercial galvanizing.
B. Solder: For use with steel or copper, Class A, Grade I, half-and-half, pig lead and block tin, ASTM B32, Type 50-50, with rosin flux.
   1. For use with stainless steel, 60-40 tin/lead solder, ASTM B32, with acid-chloride flux, except use rosin flux over tinned surfaces.
C. Mastic: FS SS-S-153, Type 1, black plastic cement.
D. Nails and Screws: Same metal as flashing/sheet metal, or other non-corrosive metal as recommended by sheet manufacturer, Stronghold type, with large flat heads and sharp points. Use length sufficient to penetrate wood framing a minimum of 7/8-inch (22 mm). Use lead or neoprene washers where indicated. Use sheet metal screws or self-tapping screws to fasten sheet metal to other metal. Match finish of exposed heads with finish of material being fastened.
E. Lap Joint Sealer: Polyisobutylene non-hardening, non-skinning, non-drying, non-migrating sealant.
F. Coating for Dissimilar Metals: Bitumastic paint or as required to be compatible with adjacent materials and finishes. Coordinate requirements with paint systems and coatings furnished under Division 09 Section "Painting".
G. Epoxy Seam Sealer: Two-part non-corrosive metal seam cementing compound recommended by metal manufacturer for exterior/interior non-moving joints including riveted joints.
H. Adhesives: Type recommended by flashing sheet manufacturer for waterproof/weatherproof seaming and adhesive application of flashing sheet.
I. Paper Slip-Sheet: 5-lb (2.27 kg) rosin-sized building paper.
J. Polyethylene Underlayment: Minimum 6-mil carbonated polyethylene film.
K. Metal Accessories: Sheet metal clips, straps, anchoring devices, and similar accessory units as required for installation of work, matching or compatible with material being installed, non-corrosive, size and gage as required for performance.
L. Gutter and Conductor-Head Guards: 20-gauge bronze or nonmagnetic stainless steel mesh or fabricated units, with selvaged edges and noncorrosive fasteners. Use materials compatible with gutters and downspouts.
   1. Retain and reinstall existing.
M. Other materials are described under Part 3, Execution.

PART 1 EXECUTION

3.1 COORDINATION

A. Review drawings for sheet metal work. Coordinate to achieve proper incorporation of this work within membrane waterproofing work.

3.2 FABRICATION AND INSTALLATION

A. Perform work in accordance with Drawings and Specifications.
B. Fabricate shapes as detailed and approved.
C. Accurately fabricate and fit parts, with surfaces free from warp, wave, buckle, dent or other defects, and with square corners and angles, unless otherwise shown.
D. Install water and weather tight where exposed to the weather, with the provision for free expansion and contraction without causing leaks.
E. Clean soldered surfaces prior to soldering. Fully flow soldered joints fully. Scrape and finish exposed solder smooth. Remove traces of flux or acid.
F. Provide locked-butt joints. Where impractical and unless otherwise detailed, provide joints with full backup strips, riveted to one end and soldered; lap other end and seal with lap joint sealer. Turn lock joints, where exposed, in direction of flow.
   1. Solder joints and miters.
   2. Make ample provisions for expansion and contraction in sheet metal assemblies, and provide by slip joints. In long runs, provide slip joints every 20 feet (6 m) minimum, unless otherwise shown on Drawings. In runs less than 20 feet (6 m), provide one slip joint.
   3. Provide reinforcements as required.
   4. Shop fabricate corners at parapet wall copings with miters and all joints soldered.
G. Exposed fasteners are not permitted .
H. Provide heavy coating of bitumastic paint to insulate dissimilar metals from each other.
I. Fold, bead, hem or return exposed edges of fabricated sheetmetal; no raw edges will be permitted.
J. Close all ends.
K. Etch sheet metal surfaces which will be concealed in the finish work with an approved acid wash, and then shop paint with one coat of approved galvanized primer. Sheet metal surfaces which will be exposed in the finished work are specified to be treated and prime-painted under Division 09 Section "Painting".
   1. Confirm compatibility of shop primers and surface preparation used on concealed surfaces with paints and coatings provided in Division 09 Section "Painting".
L. Underlayment: Where stainless steel is to be installed directly on cementitious or wood substrates, install a slip sheet of red rosin paper and a course of polyethylene underlayment.
M. Install "beehive"-type strainer guards at conductor heads, removable for cleaning downspouts.

3.3 CLEANING

A. Immediately upon completion of this work, remove from site all debris and scrap material and clean up all dust and dirt resulting from this work.

END OF SECTION

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9228.00 DCA PLUM GROVE ROOF REPLACEMENT

1030 Carroll Street
Iowa City, IA 52240

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1	2/24/2022	BIDDING ADDENDUM 1

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SHEET TITLE
SPECIFICATIONS

G-2

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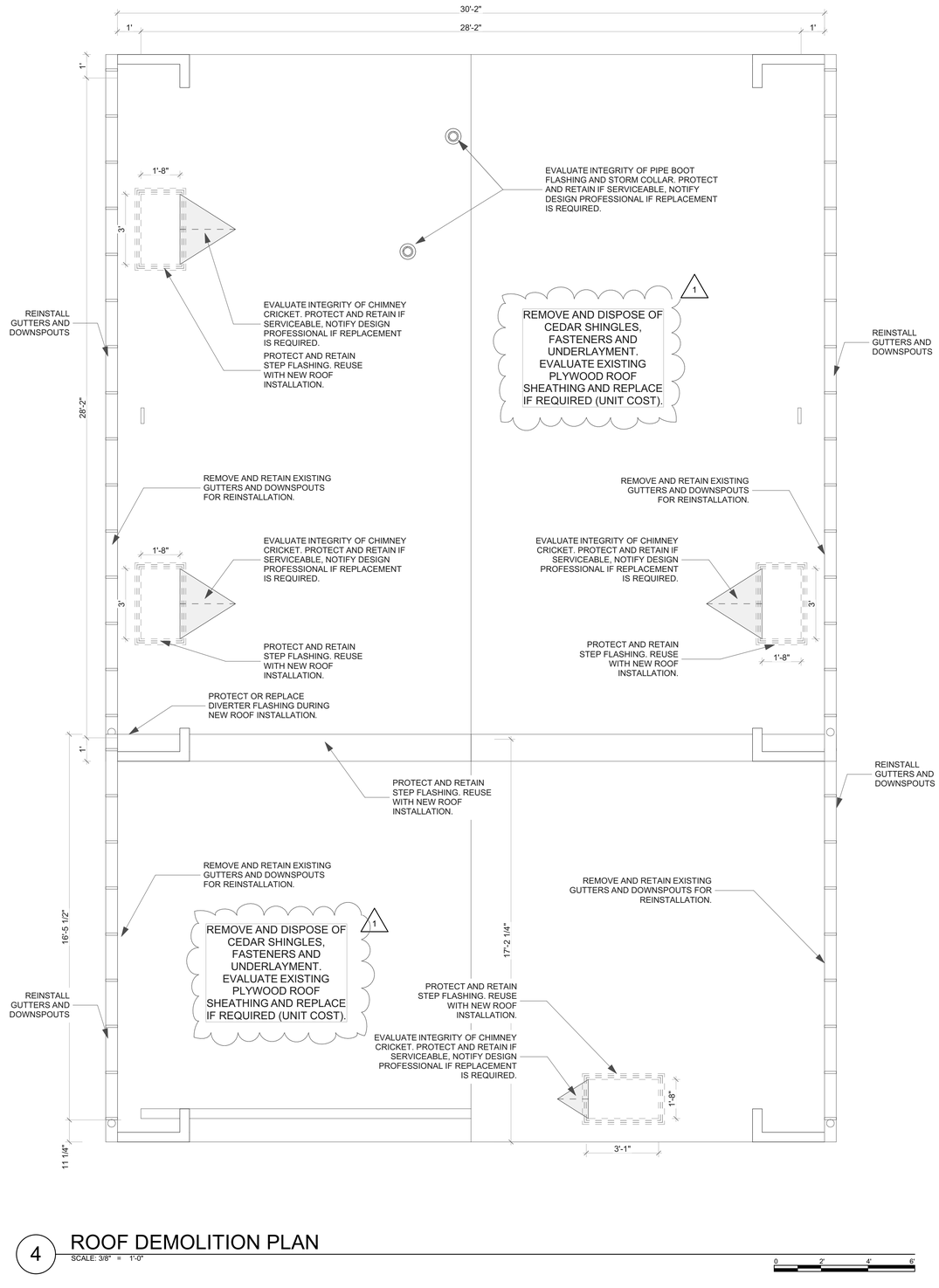
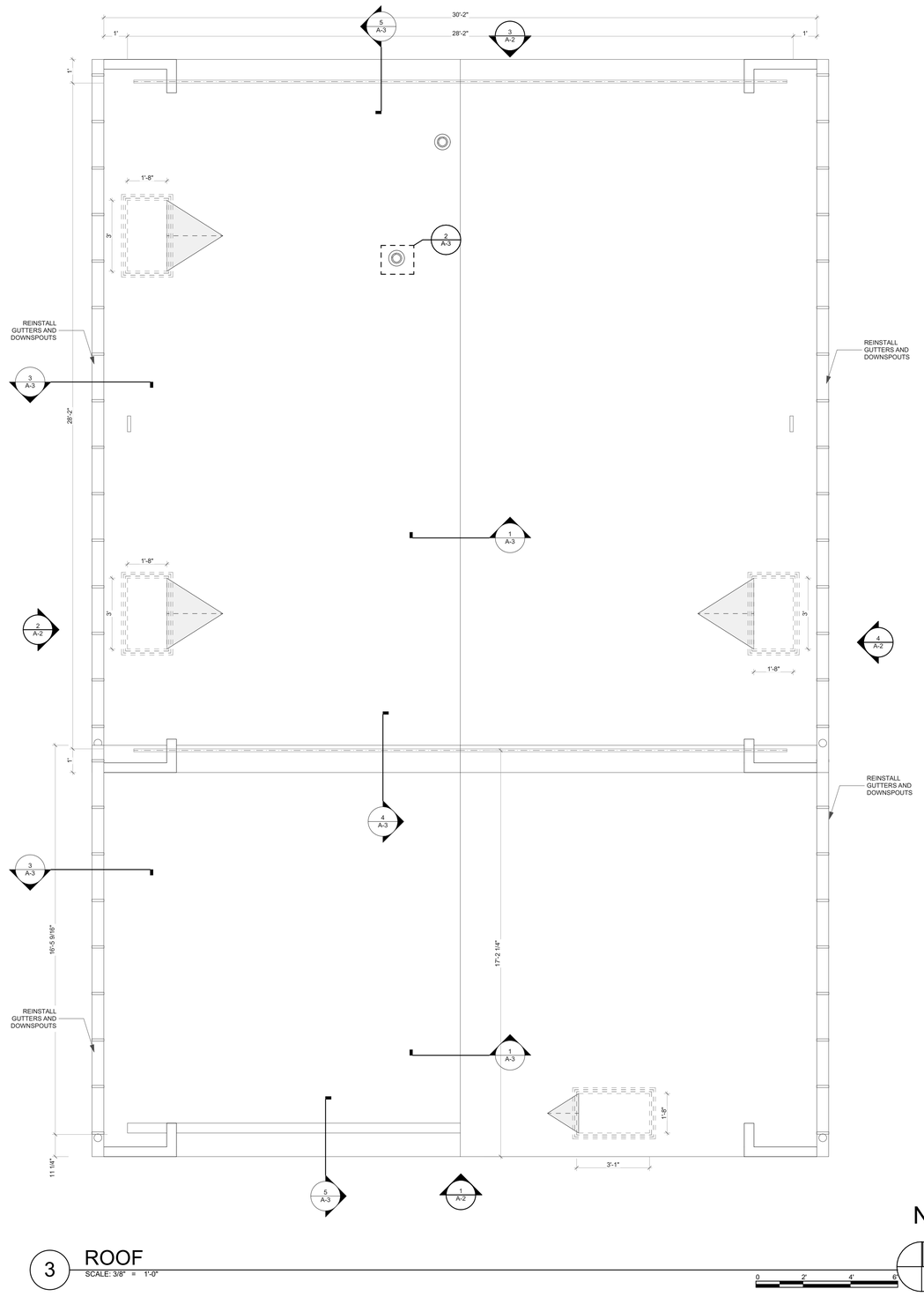


4 ROOF DEMOLITION PLAN
SCALE: 3/8" = 1'-0"



3 ROOF
SCALE: 3/8" = 1'-0"

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IOWA
LICENSED PROFESSIONAL ARCHITECT

9228.00 DCA PLUM GROVE ROOF REPLACEMENT

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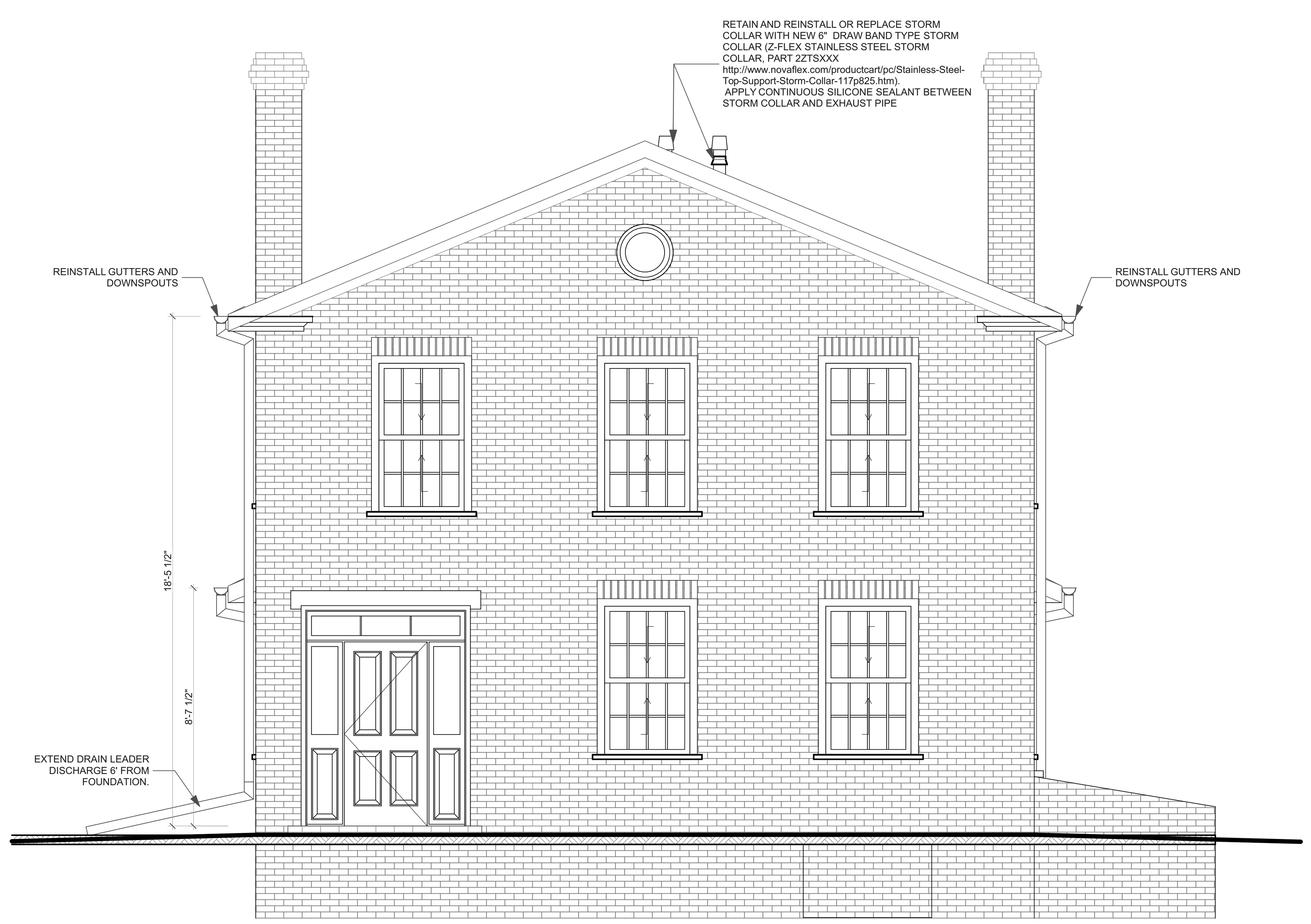
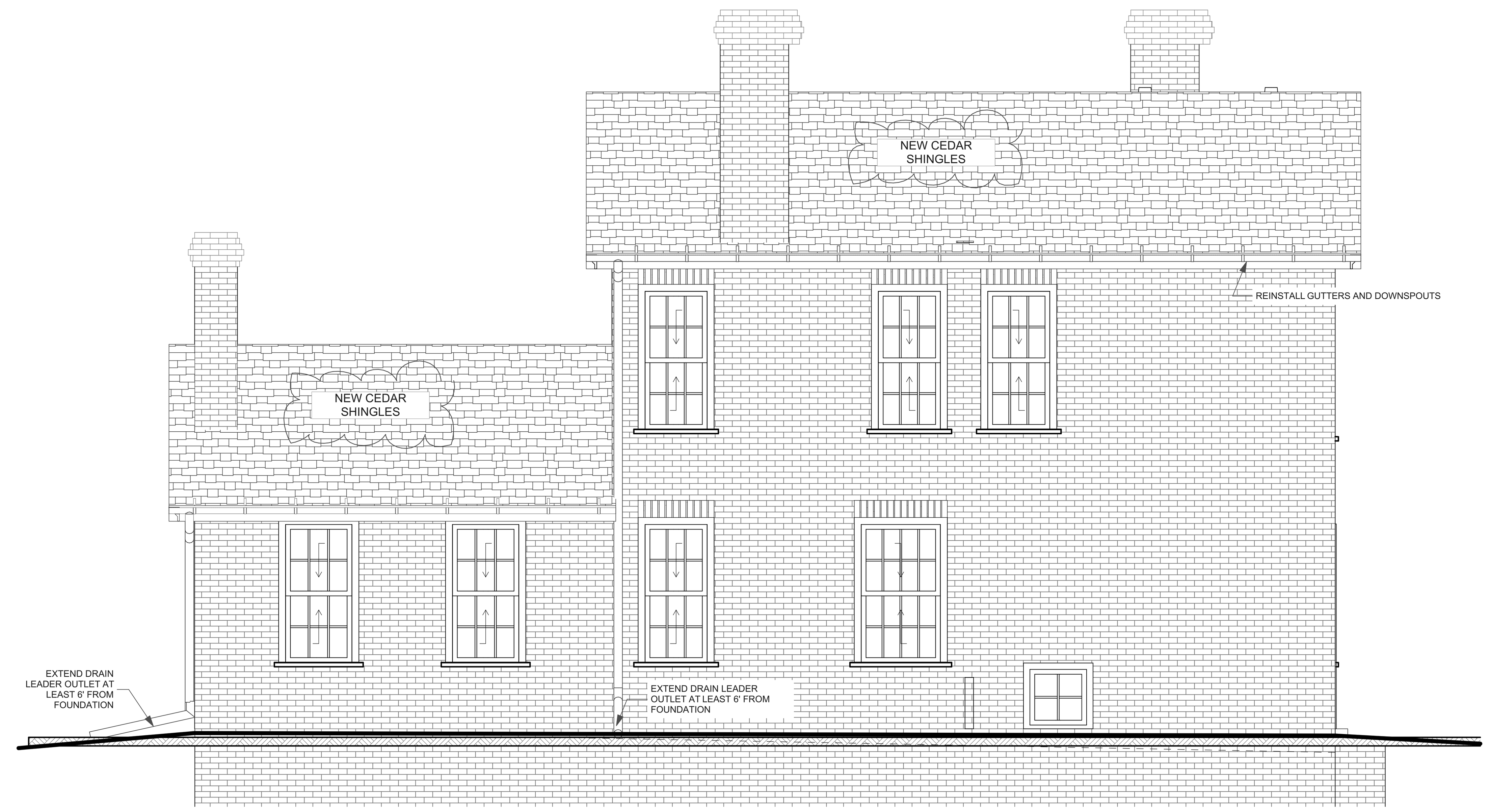
ROOF PLAN

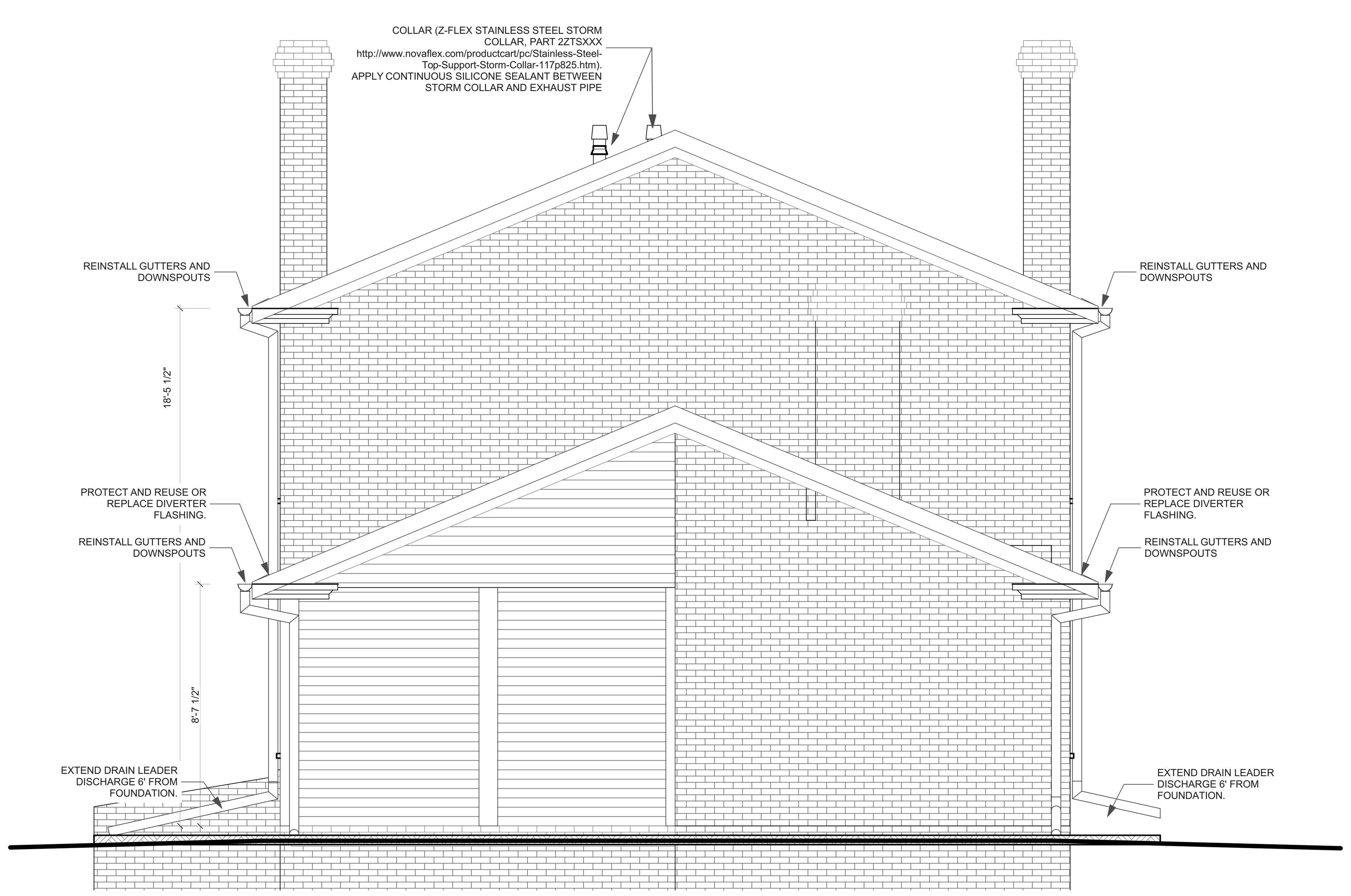
A-1



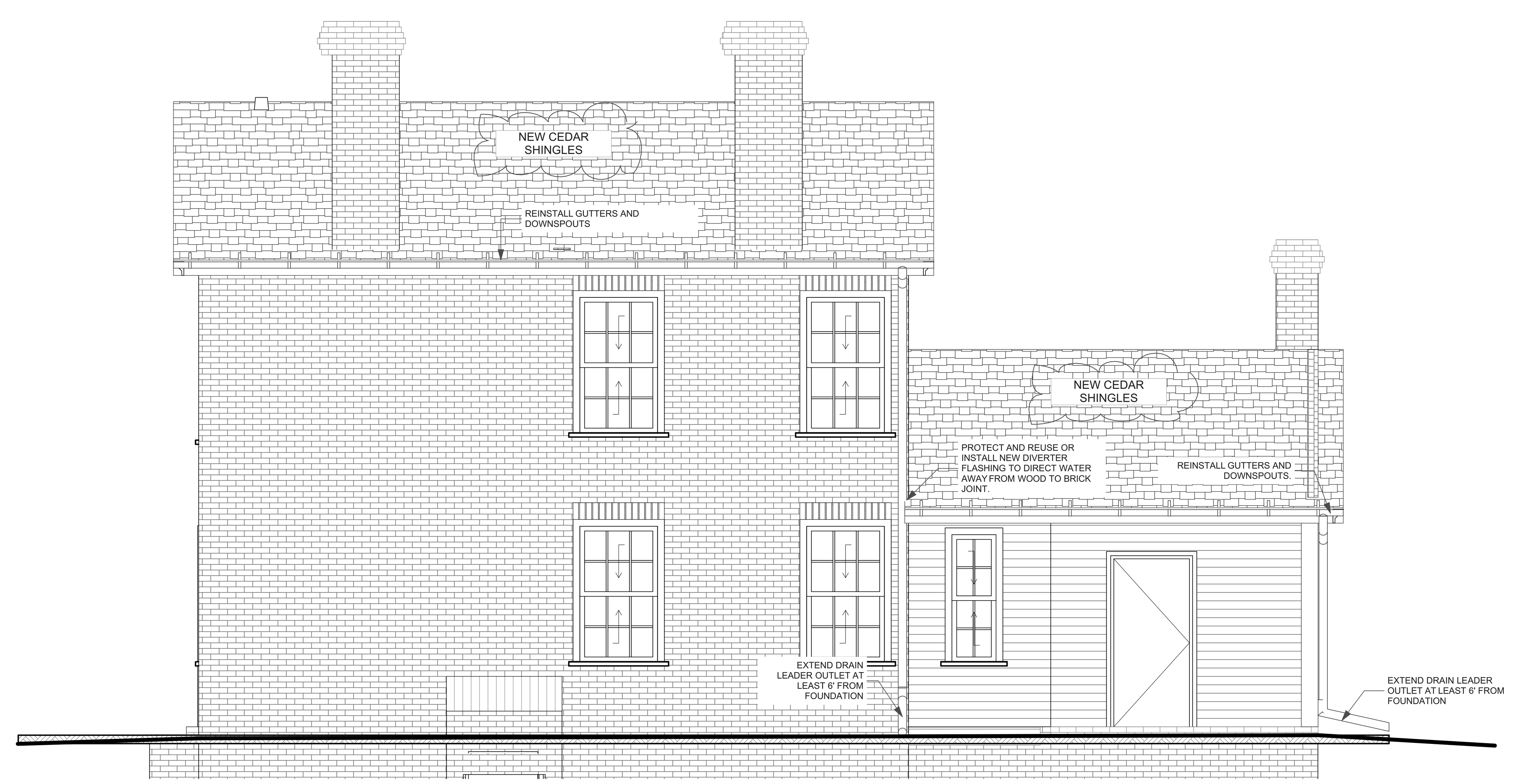
3 NORTH ELEVATION
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



4 EAST ELEVATION
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



1 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



2 WEST ELEVATION
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

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ELEVATIONS

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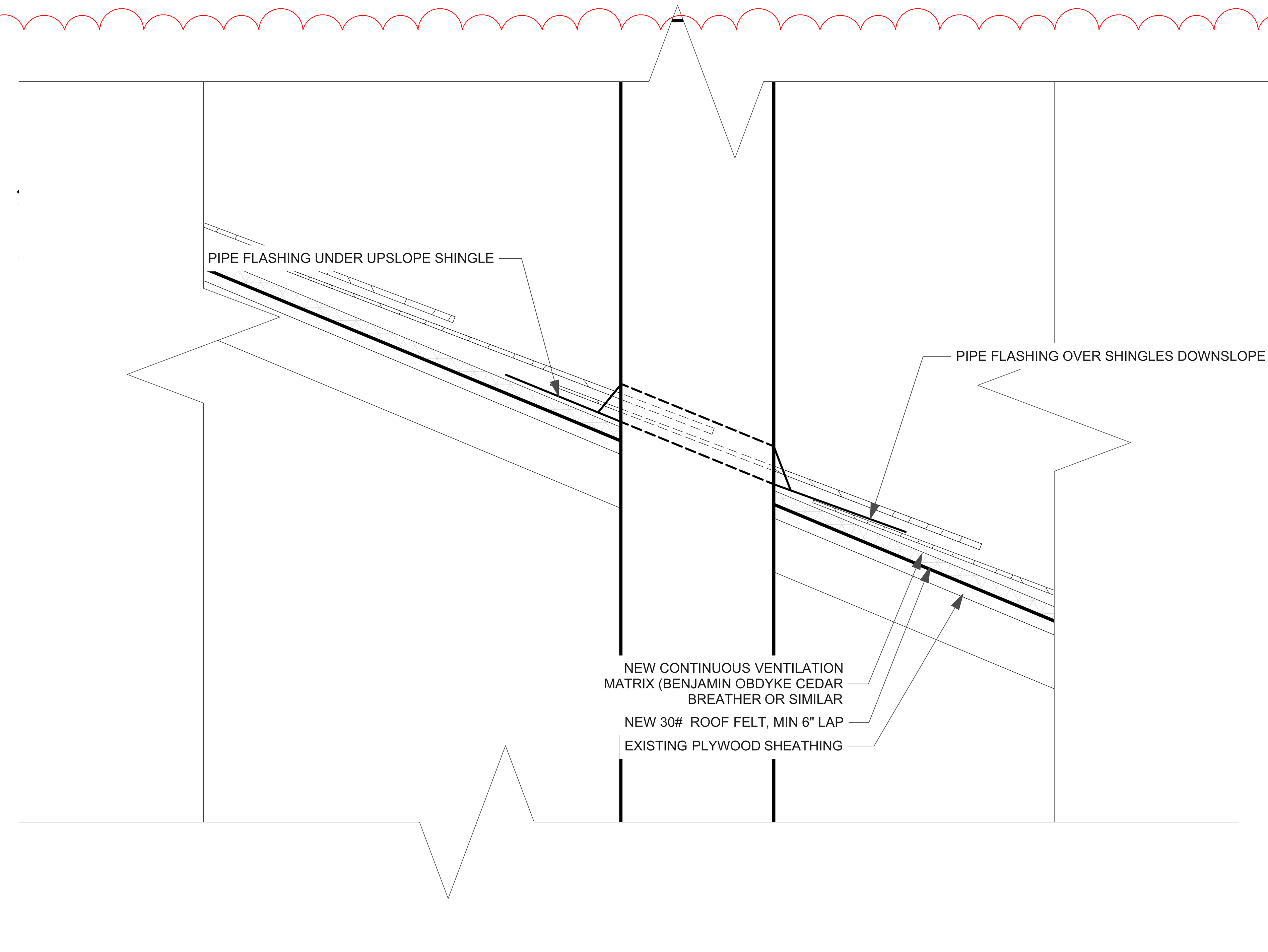
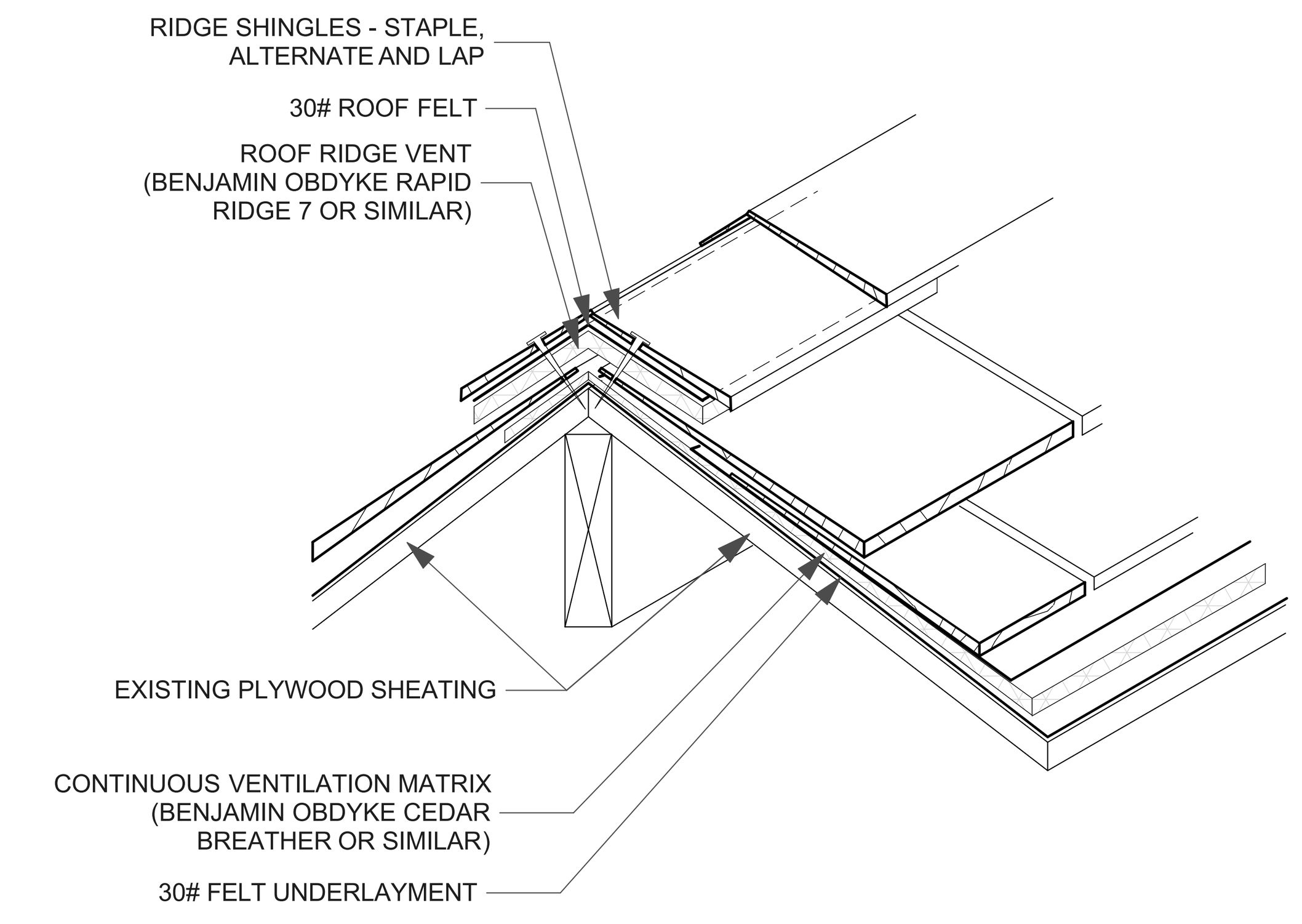
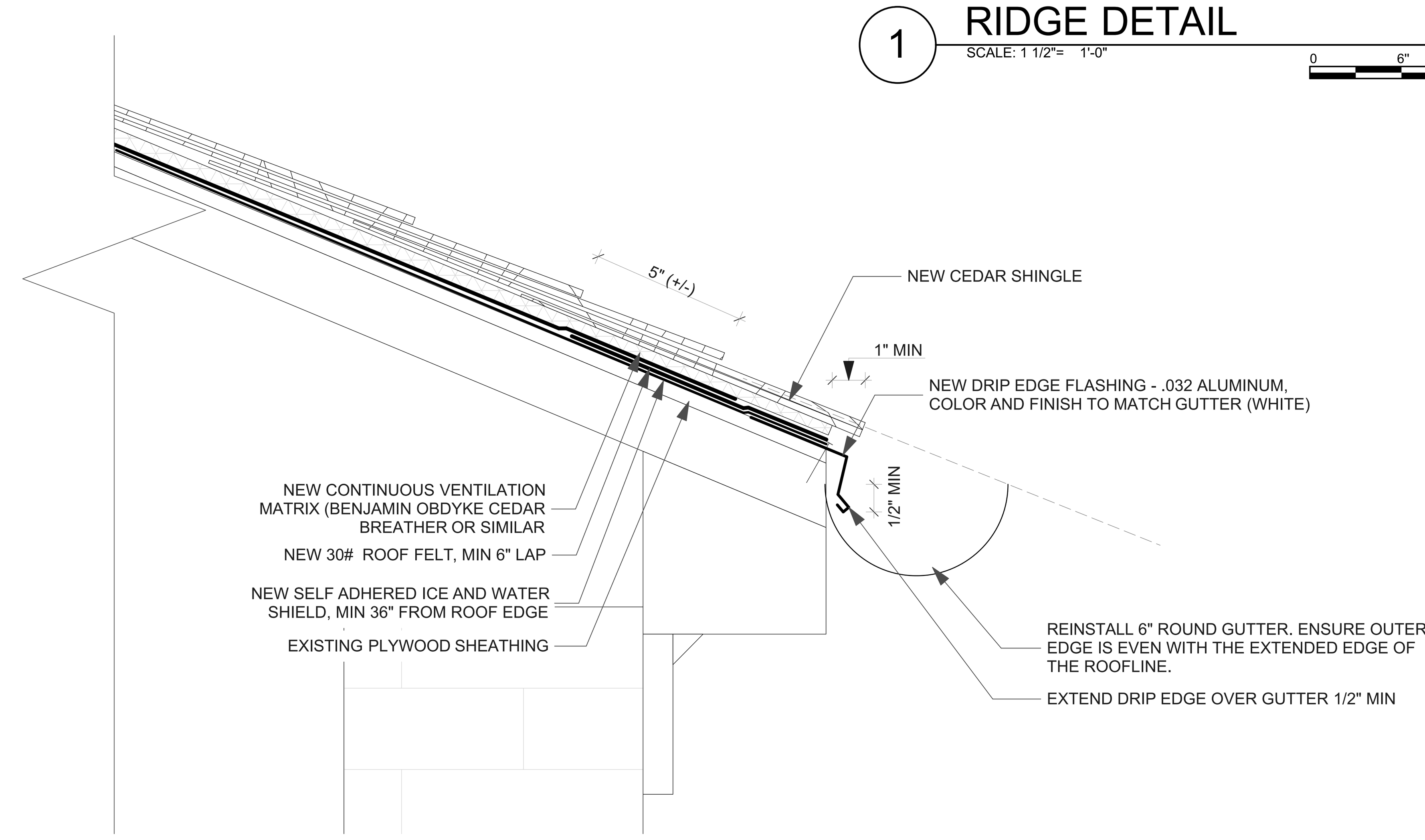


2 PENETRATION FLASHING
SCALE: 3" = 1'-0"
0 3" 6" 9"



1 RIDGE DETAIL
SCALE: 1 1/2"= 1'-0"
0 6" 12" 18"



3 EAVE DETAIL
SCALE: 3" = 1'-0"
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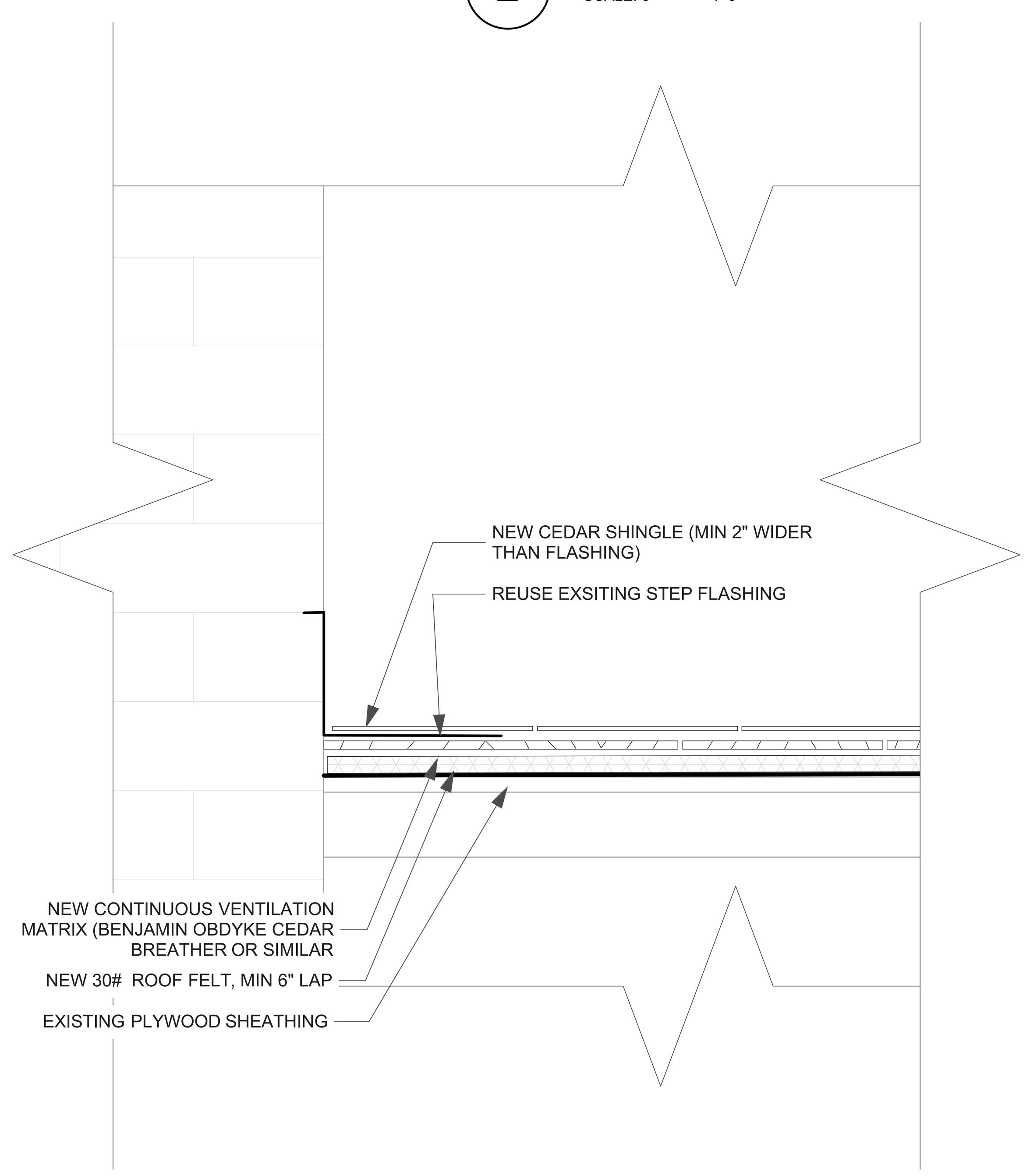

4 SIDEWALL FLASHING DETAIL
SCALE: 3" = 1'-0"
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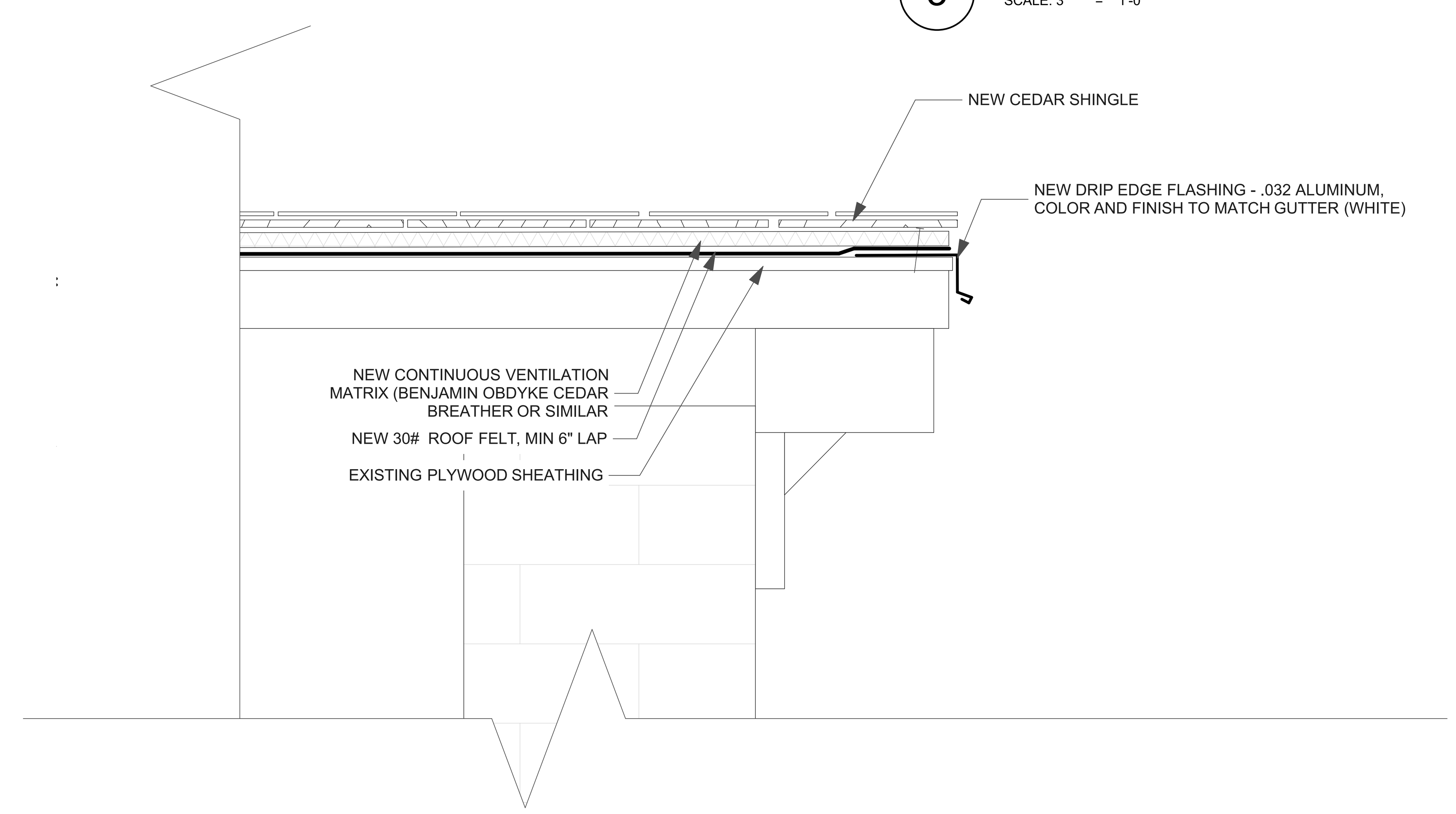

5 RAKE DETAIL
SCALE: 3" = 1'-0"
0 3" 6" 9"

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DETAILS

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