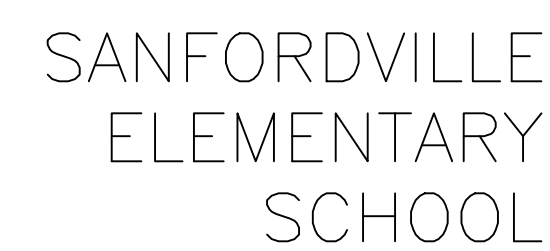
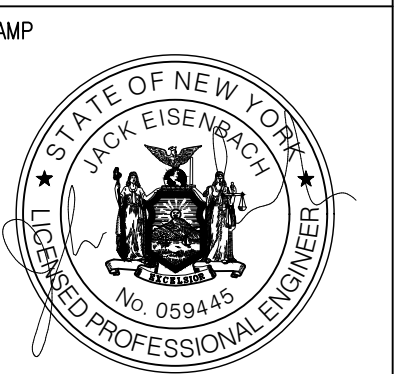
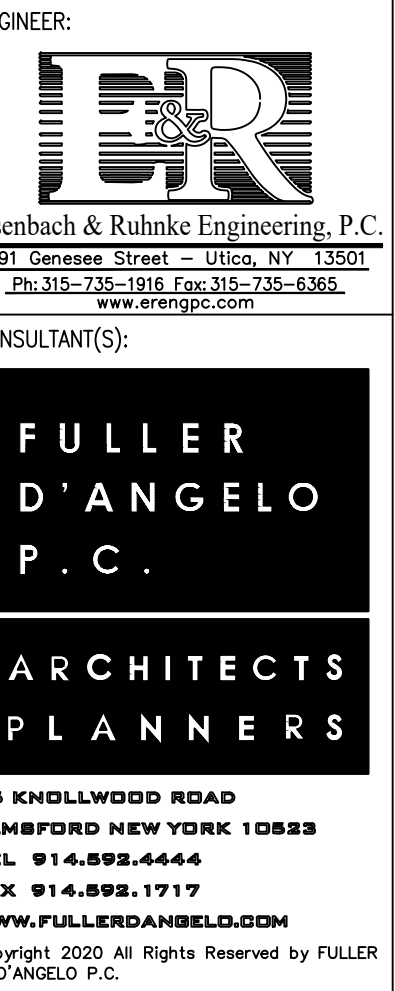


BID SET - DATE: 07/10/2022



CP	COVER PAGE
SV-1	ROOF PLAN
SV-2	DETAILS 1-12
SV-3	DETAILS 13-24
SV-4	DETAILS 25-28

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THIS DRAWING IN ANY WAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019



WARWICK VALLEY CENTRAL SCHOOL DISTRICT
SANDFORDVILLE ELEMENTARY SCHOOL
ROOF REPLACEMENT
144 SANDFORDVILLE ROAD, WARWICK, NY 10990
SV SED NO. 44-21-01-06-0-019-015

PROJECT NO.	05-20-06
ORDER SET	07-10-2022
DIVISION	DATE
OWN BY	
CHECKED BY	
HEET SIZE	30" X 42"
SCALE	AS NOTED
HEET TITLE	
COVER PAGE	
HEET NO.	
CP	

CODE COMPLIANCE REQUIREMENTS:

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 UL 790.
- 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 120 MPH
EXPOSURE CATEGORY C
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: 75 PSF
PERIMETER ZONE: 120 PSF
CORNER ZONE: 180 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 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.

ROOF PROTECTION NOTES:

1. DO NOT WALK ON NEW AND EXISTING N.I.C. ROOF AREAS.
2. DO NOT STORE MATERIAL OR EQUIPMENT, AND DO NOT PILE DEBRIS ON NEW ROOF AREAS.
3. INSTALL 1 INCH THICK EXTRUDED POLYSTYRENE INSULATION OVER 6 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 STRAINERS VISIBLE AND CLEAR AT ALL TIMES.

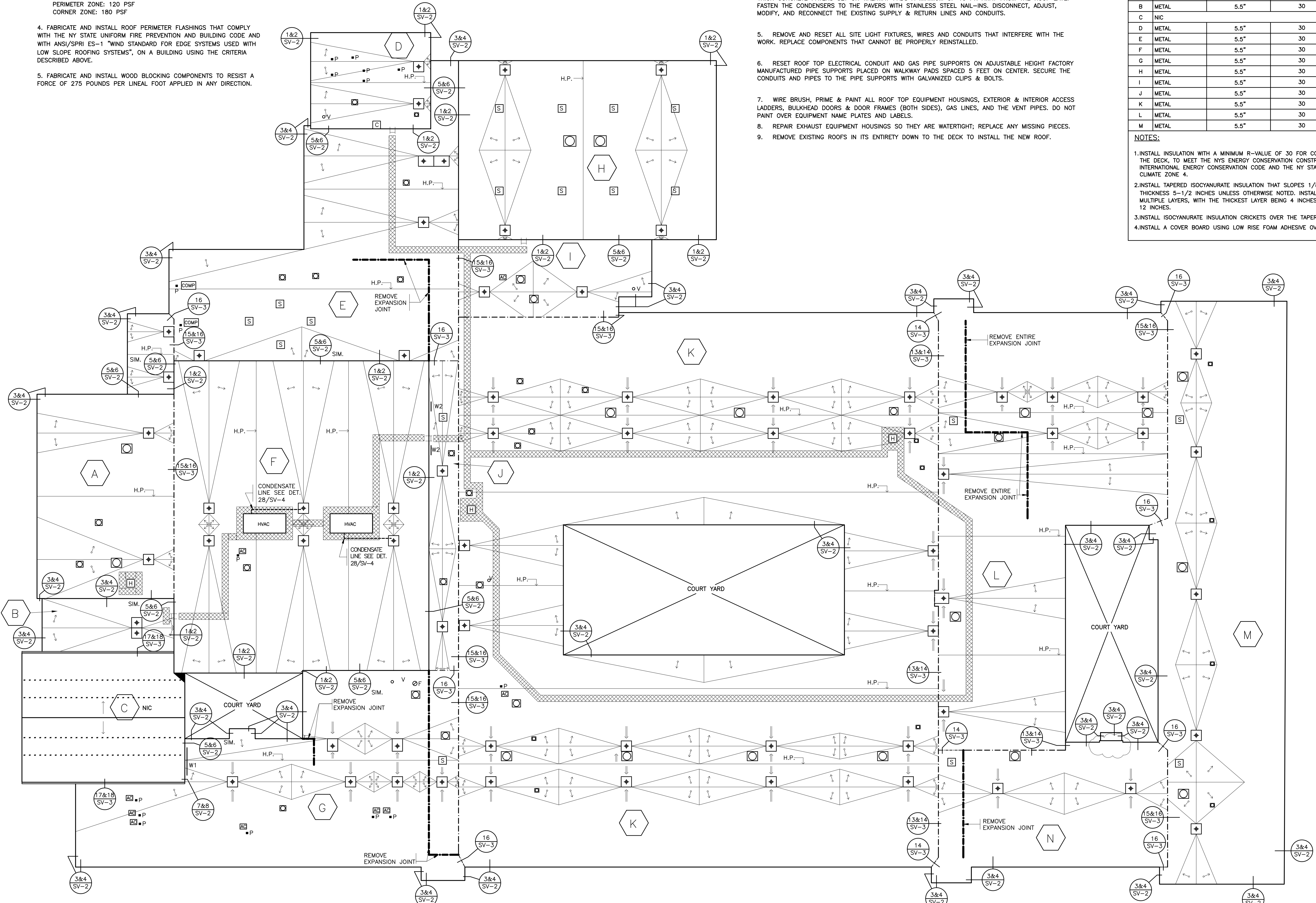
GENERAL NOTES:

1. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR.
2. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
3. TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.
- A. CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE OWNER.
- B. COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.
- C. PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON COMPLETION OF THE PROJECT.
4. REMOVE AND RESET EXISTING AC CONDENSERS AND AC COMPRESSORS ON 2 X 2 FOOT X 2 INCH THICK CONCRETE PAVERS SET ON WALKWAY PADS A MINIMUM OF 10 FT. AWAY FROM THE ROOF EAVE. FASTEN THE CONDENSERS TO THE PAVERS WITH STAINLESS STEEL NAIL-INS. DISCONNECT, ADJUST, MODIFY, AND RECONNECT THE EXISTING SUPPLY & RETURN LINES AND CONDUCITS.
5. REMOVE AND RESET ALL SITE LIGHT FIXTURES, WIRES AND CONDUITS THAT INTERFERE WITH THE WORK. REPLACE COMPONENTS THAT CANNOT BE PROPERLY REINSTALLED.
6. RESET ROOF TOP ELECTRICAL CONDUIT AND GAS PIPE SUPPORTS 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.
7. 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.
8. REPAIR EXHAUST EQUIPMENT HOUSINGS SO THEY ARE WATERTIGHT; REPLACE ANY MISSING PIECES.
9. REMOVE EXISTING ROOFS IN ITS ENTIRETY DOWN TO THE DECK TO INSTALL THE NEW ROOF.

10. REMOVE, MODIFY AND REMOUNT THE EXISTING LADDERS - REWORK THEM SO THEY ARE OSHA COMPLIANT. FILL OLD FASTENER HOLES WITH COLOR MATCHING MORTAR.
11. 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 NEW BACKER ROD AND SEALANT.
12. REMOVE ABANDONED ANTENNAS. REMOVE AND RESET ACTIVE ANTENNAS.
13. REFASTEN LOOSE SECTIONS OF METAL DECK AS BASE BID WORK. REPLACE DAMAGED OR DETERIORATED SECTIONS OF DECK IN ACCORDANCE WITH THE UNIT PRICES.
14. INSULATE ALL EXISTING DRAIN LINES WHERE EXPOSED INSIDE THE BUILDING, ALL NEW DRAIN LINES, AND THE UNDERSIDES OF THE NEW DRAIN BOWLS.

DECK TYPE CHART & INSULATION REQUIREMENTS				
ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION
A	METAL	5.5"	30	6.7"
B	METAL	5.5"	30	6.1"
C	NIC			
D	METAL	5.5"	30	6.0"
E	METAL	5.5"	30	6.9"
F	METAL	5.5"	30	6.5"
G	METAL	5.5"	30	6.7"
H	METAL	5.5"	30	7.0"
I	METAL	5.5"	30	6.4"
J	METAL	5.5"	30	5.8"
K	METAL	5.5"	30	6.6"
L	METAL	5.5"	30	7.6"
M	METAL	5.5"	30	7.0"

- NOTES:
1. INSTALL INSULATION WITH A MINIMUM R-VALUE OF 30 FOR CONTINUOUS INSULATION ENTIRELY ABOVE THE DECK, TO MEET THE NYS ENERGY CONSERVATION CONSTRUCTION CODE, INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 4.
2. INSTALL TAPERED ISOCYANURATE INSULATION THAT SLOPES 1/8 INCH PER FOOT; MINIMUM STARTING 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.
3. INSTALL ISOCYANURATE INSULATION CRICKETS OVER THE TAPERED INSULATION.
4. INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS.



- LEGEND:
- A ROOF AREA DESIGNATION
- C CHIMNEY (SEE DET. 5&6/SV-2 SIM. & 27/SV-4)
- W2 WINDOW (SEE DET. 9&10/SV-2)
- W1 WINDOW (SEE DET. 11&12/SV-2)
- EXPANSION JOINT (SEE DET. 13-16/SV-3)
- ROOF DRAIN (SEE DET. 19/SV-3)
- ROOF HATCH (SEE DET. 20/SV-3)
- EXHAUST FAN (SEE DET. 21/SV-3)
- HVAC HVAC UNIT (SEE DET. 22/SV-3)
- SKYLIGHT (SEE DET. 23/SV-3)
- P PITCH POCKET (SEE DET. 24/SV-4)
- F FLUE (SEE DET. 25/SV-4)
- VP VENT PIPE (SEE DET. 26/SV-4)
- PS PIPE SUPPORT (SEE DET. 28/SV-4)
- AC AC UNIT (SEE NOTE 4)
- COMP AC COMPRESSOR (SEE NOTE 4)
- L ROOF LADDER (SEE NOTE 10)
- DECK SLOPE
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/8" PER FT
- CRICKET- SLOPE 1/4" PER FT
- H.P. INSULATION HIGH POINT
- WALKWAY PAD

ROOF PLAN
0' 4' 8' 16'
PROJECT NORTH

ENGINEER:
ER
Eisenbach & Ruhke Engineering, P.C.
295 Calverton Street - Union, NY 13501
607-362-7018 Fax: 607-362-7045
www.eareng.com

CONSULTANT(S):
FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
48 KNOLLWOOD ROAD
ELMFBOROUGH NEW YORK 10823
TEL: 914-899-4444
FAX: 914-899-1919
WWW.FULLERDANGELO.COM
Copyright 2020 All Rights Reserved by FULLER & D'ANGELO P.C.

STATE OF NEW YORK
JACK D'ANGELO
Professional Engineer
No. 059449

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
SANFORDVILLE ELEMENTARY SCHOOL
ROOF REPLACEMENT
144 SANFORDVILLE ROAD, WARWICK, NY 10990
SV SED NO. 44-21-01-06-0-019-015

PROJECT NO. 05-20-06

BID SET 07-10-2022

REVISION DATE

DRAWN BY

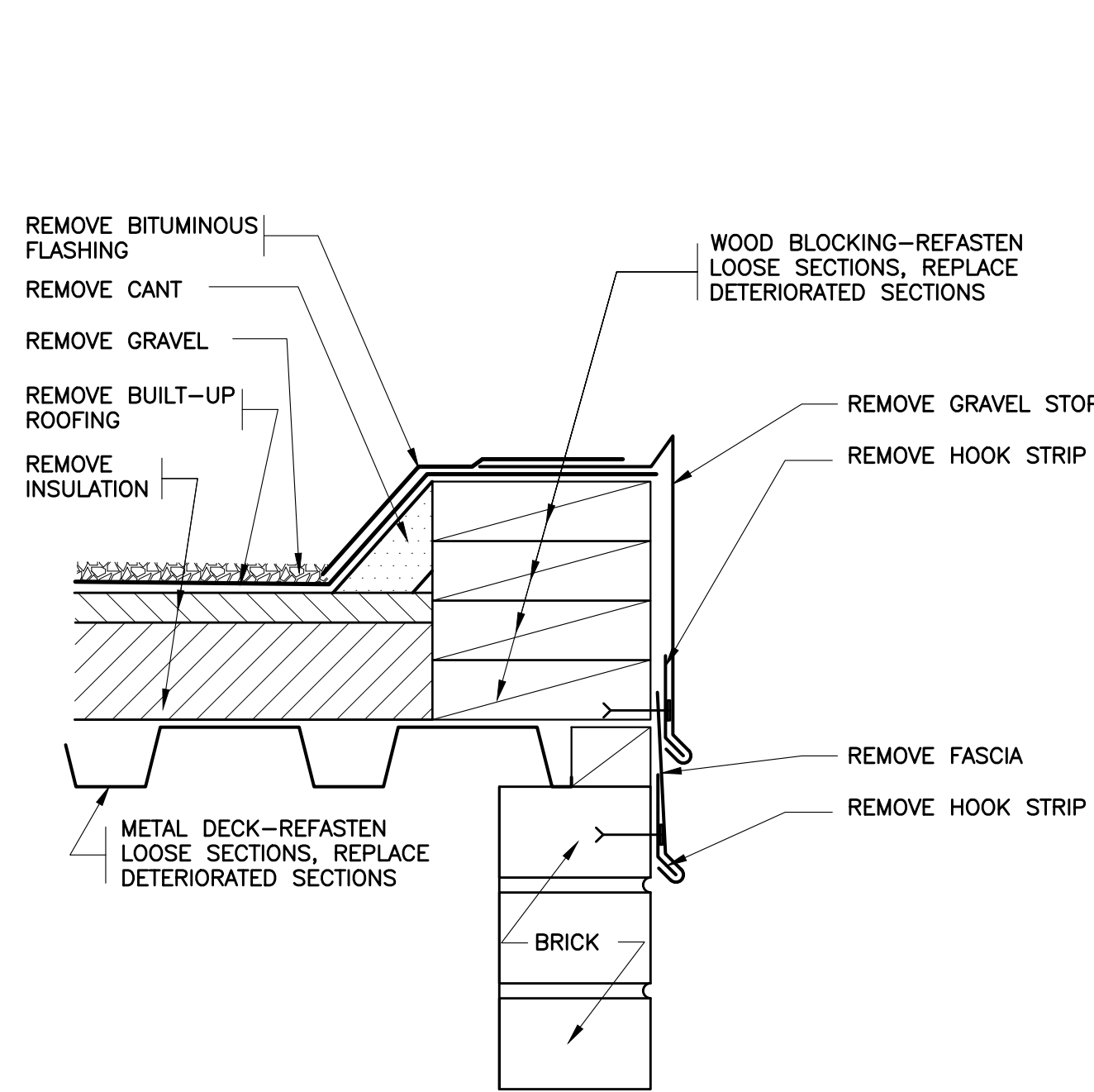
CHECKED BY

SHEET SIZE 30" X 42"

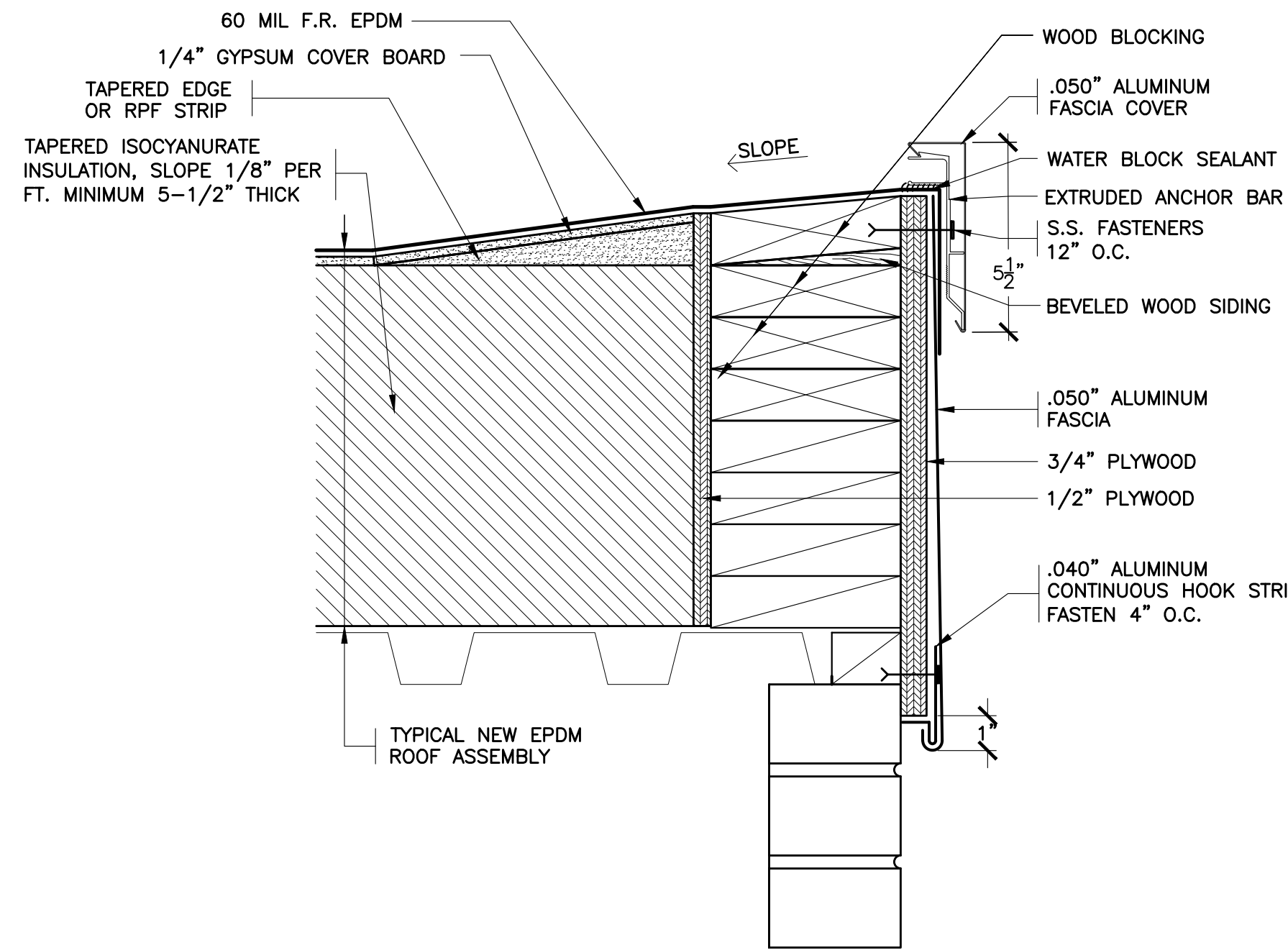
SCALE AS NOTED

SHEET TITLE
ROOF PLAN

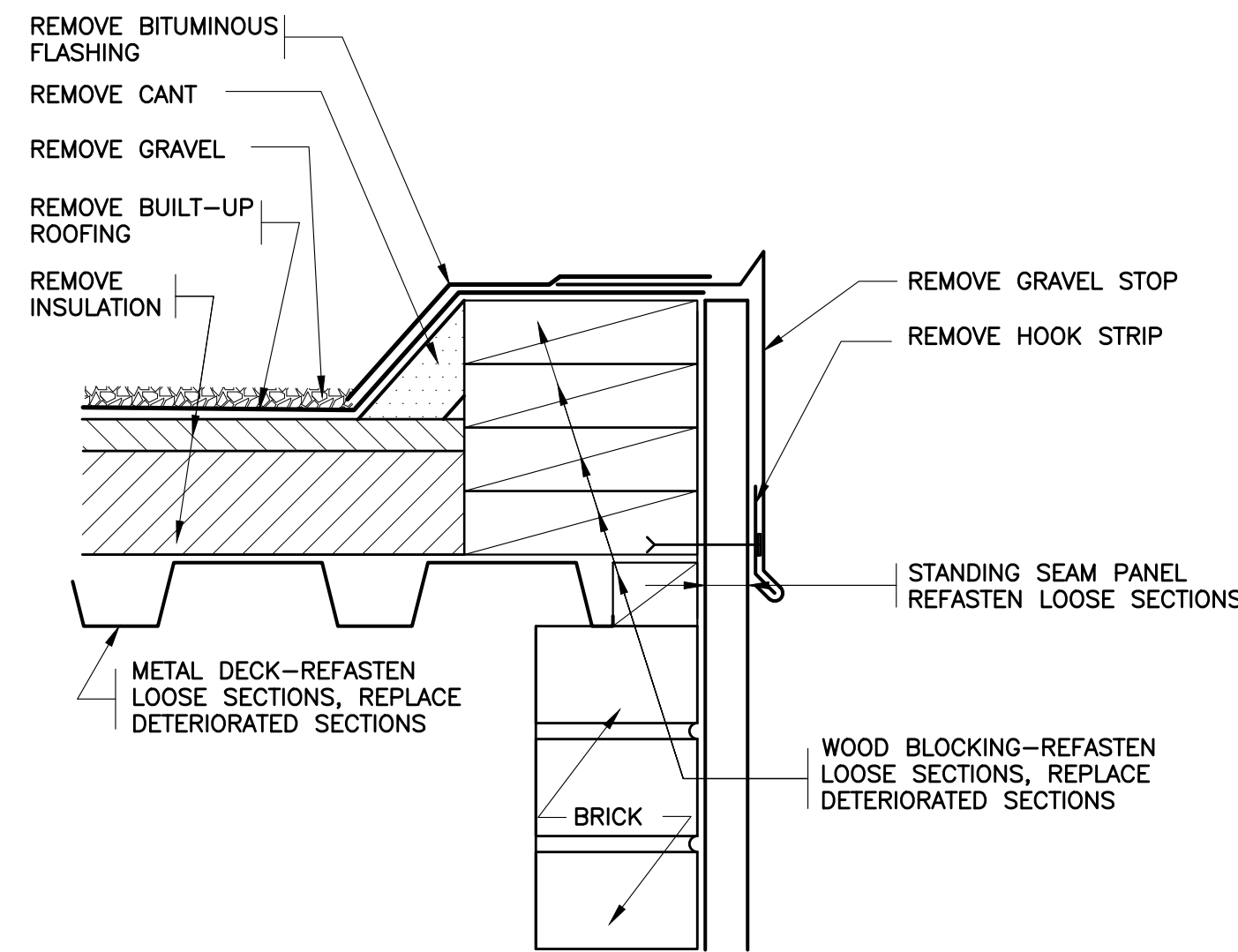
SHEET NO.
SV-1



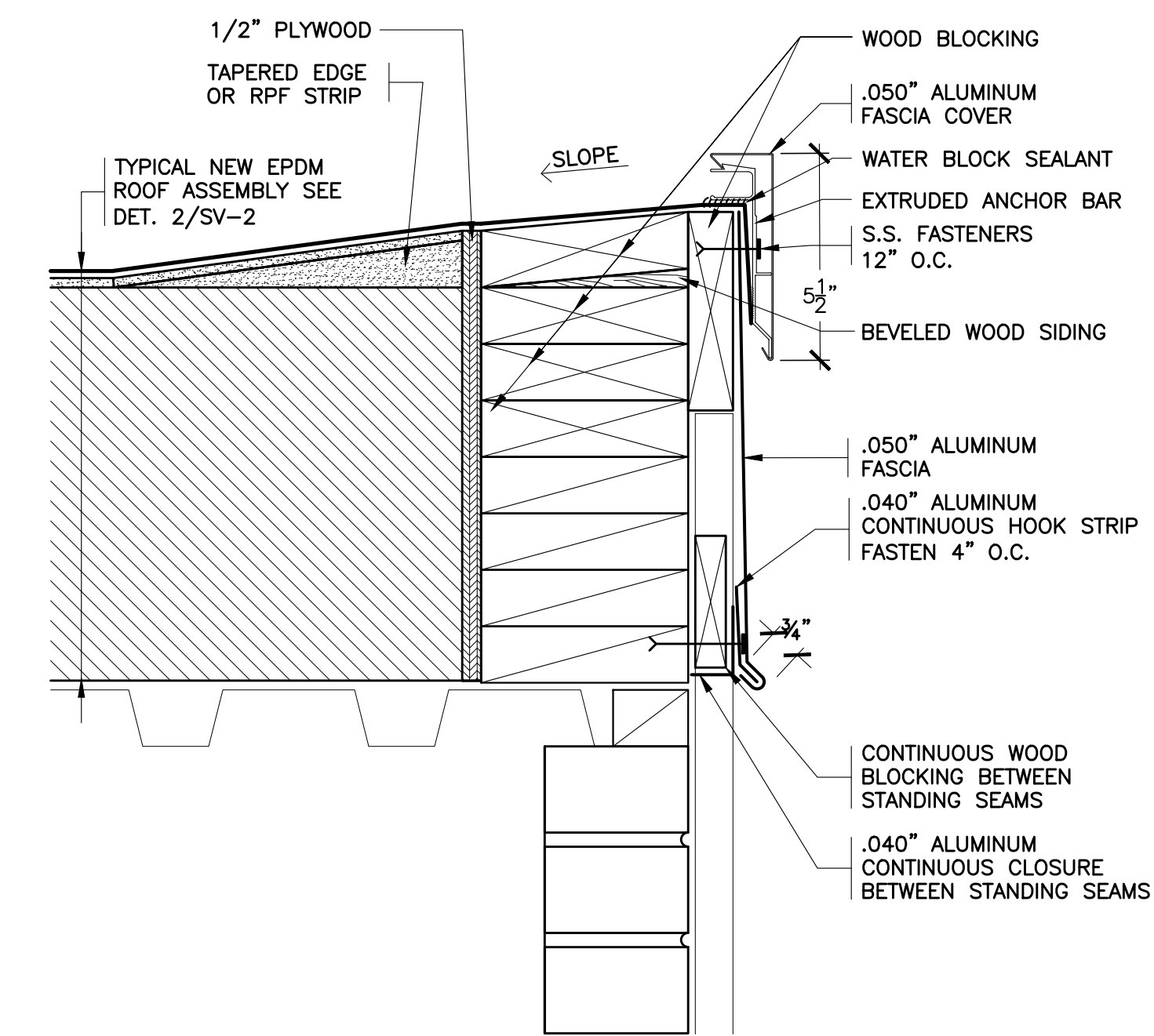
1 EXISTING EAVE
SCALE: 0' 1" 2" 4" 8"



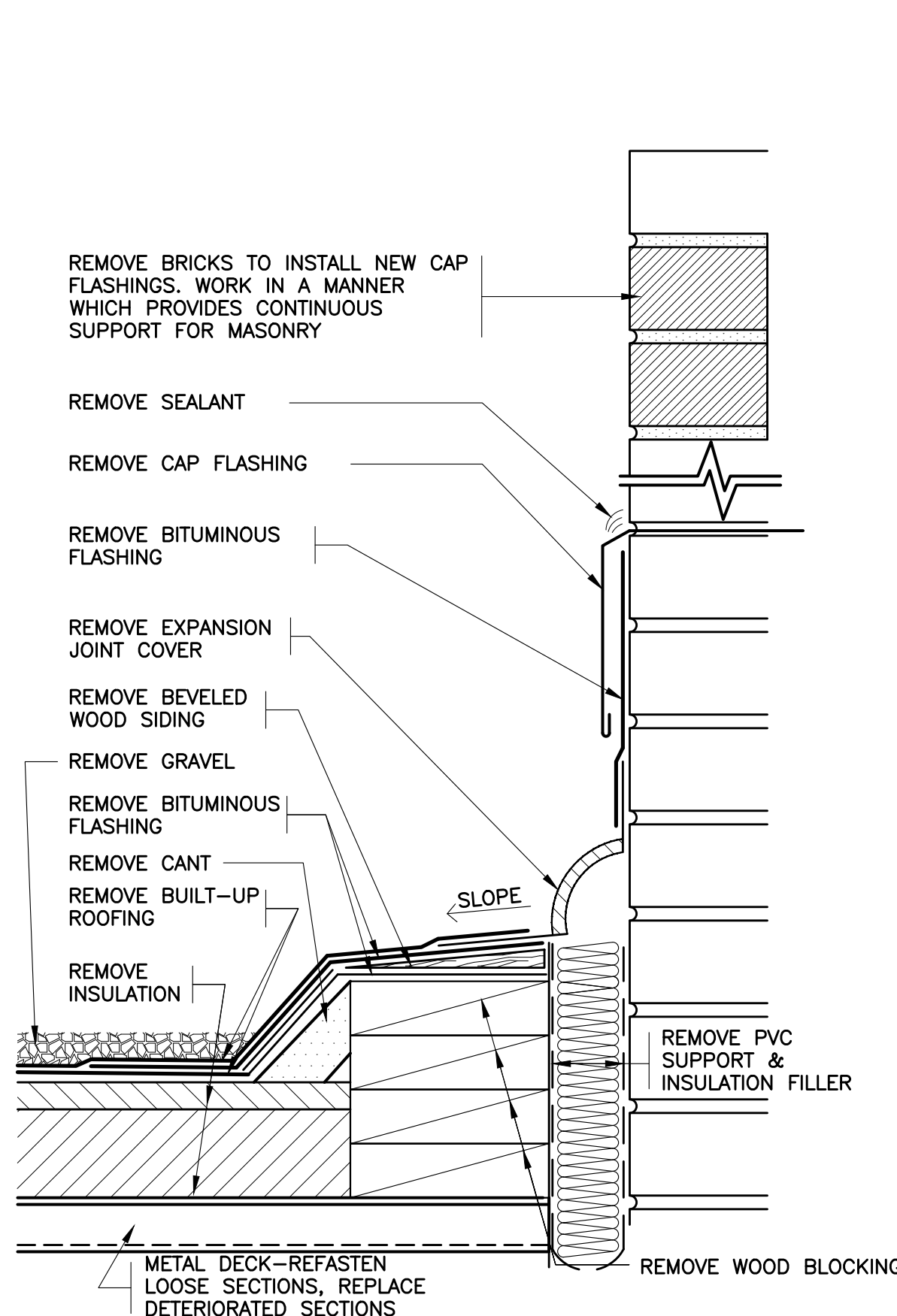
2 REVISED EAVE
SCALE: 0' 1" 2" 4" 8"



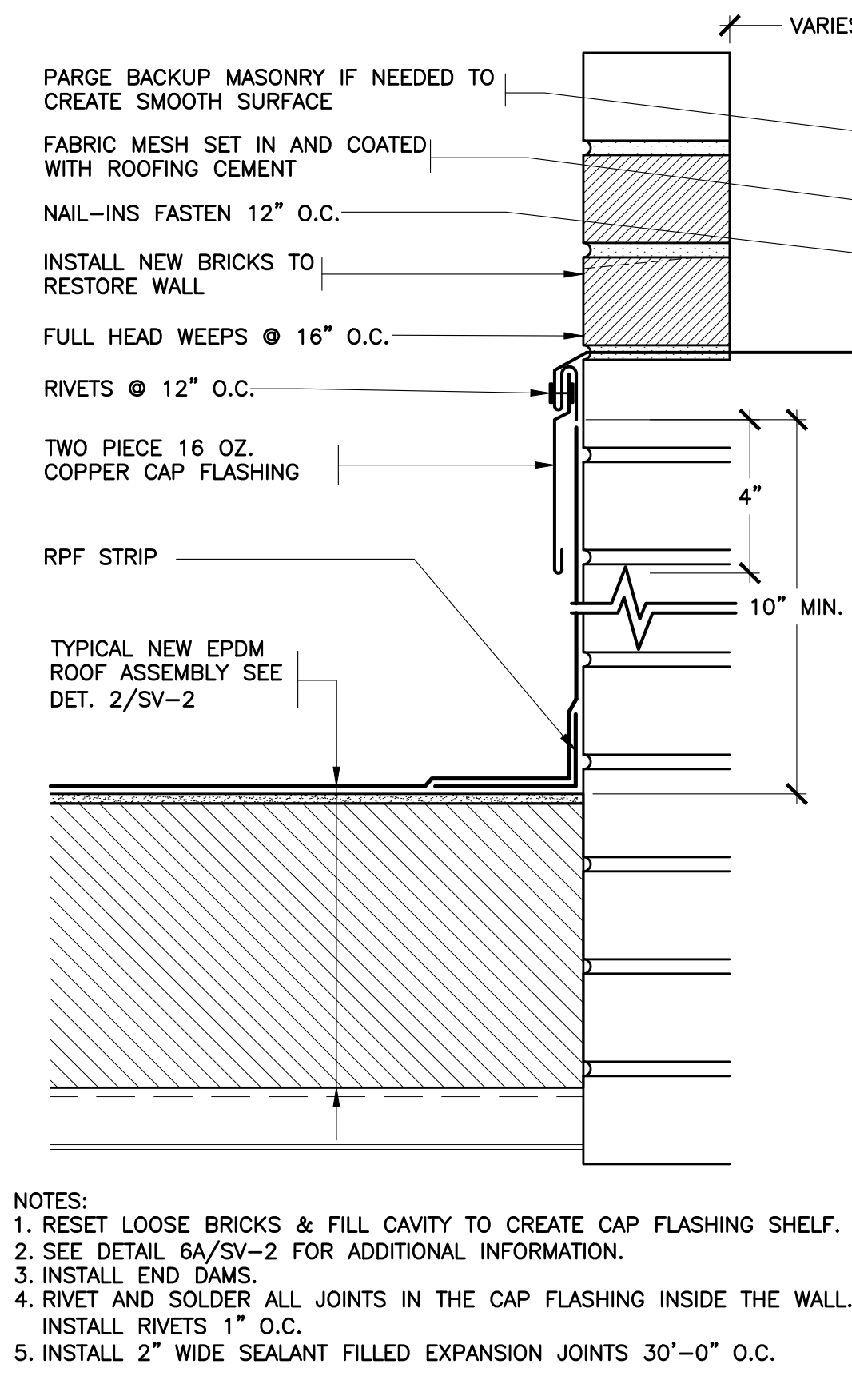
3 EXISTING EAVE
SCALE: 0' 1" 2" 4" 8"



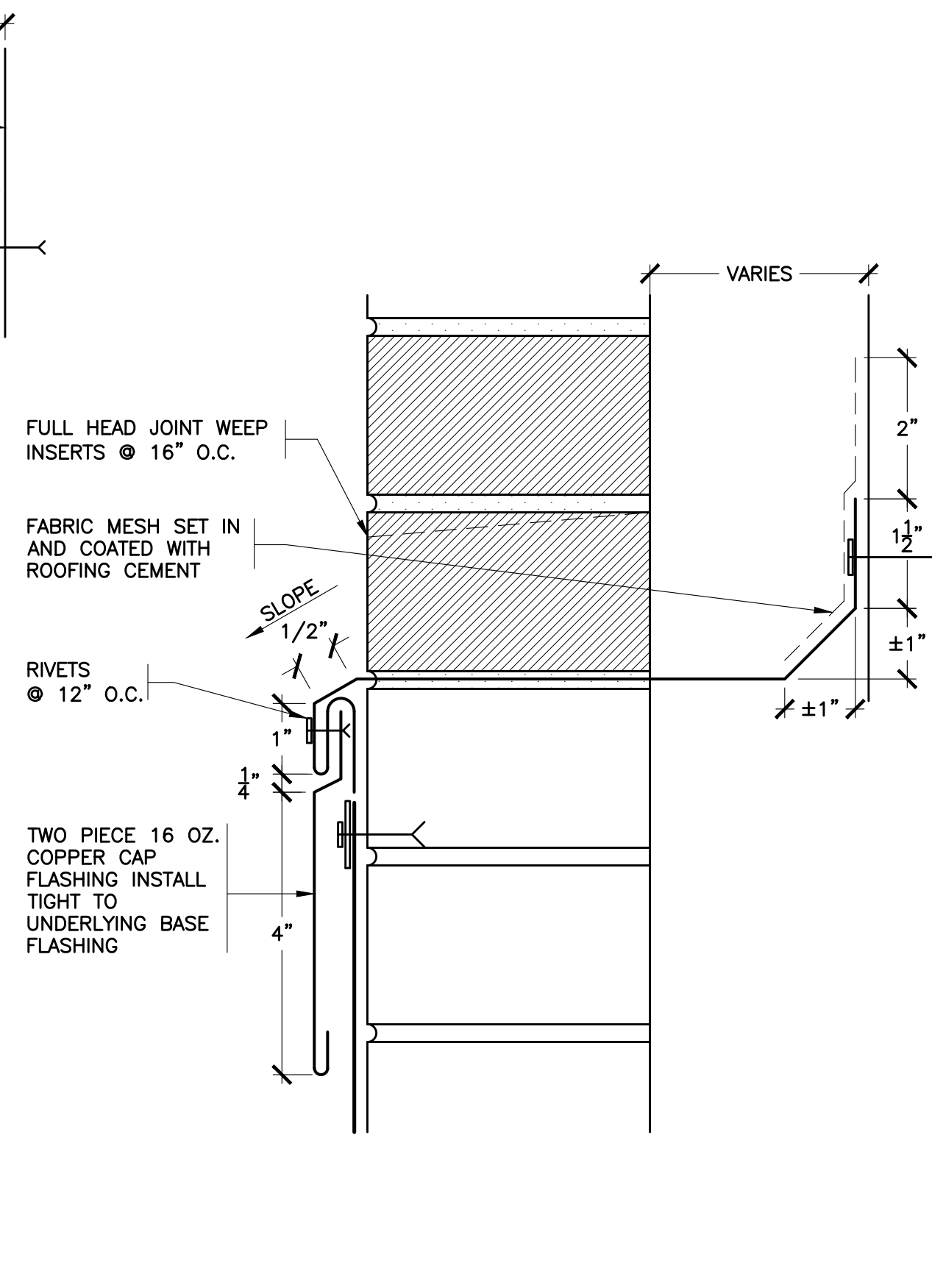
4 REVISED EAVE
SCALE: 0' 1" 2" 4" 8"



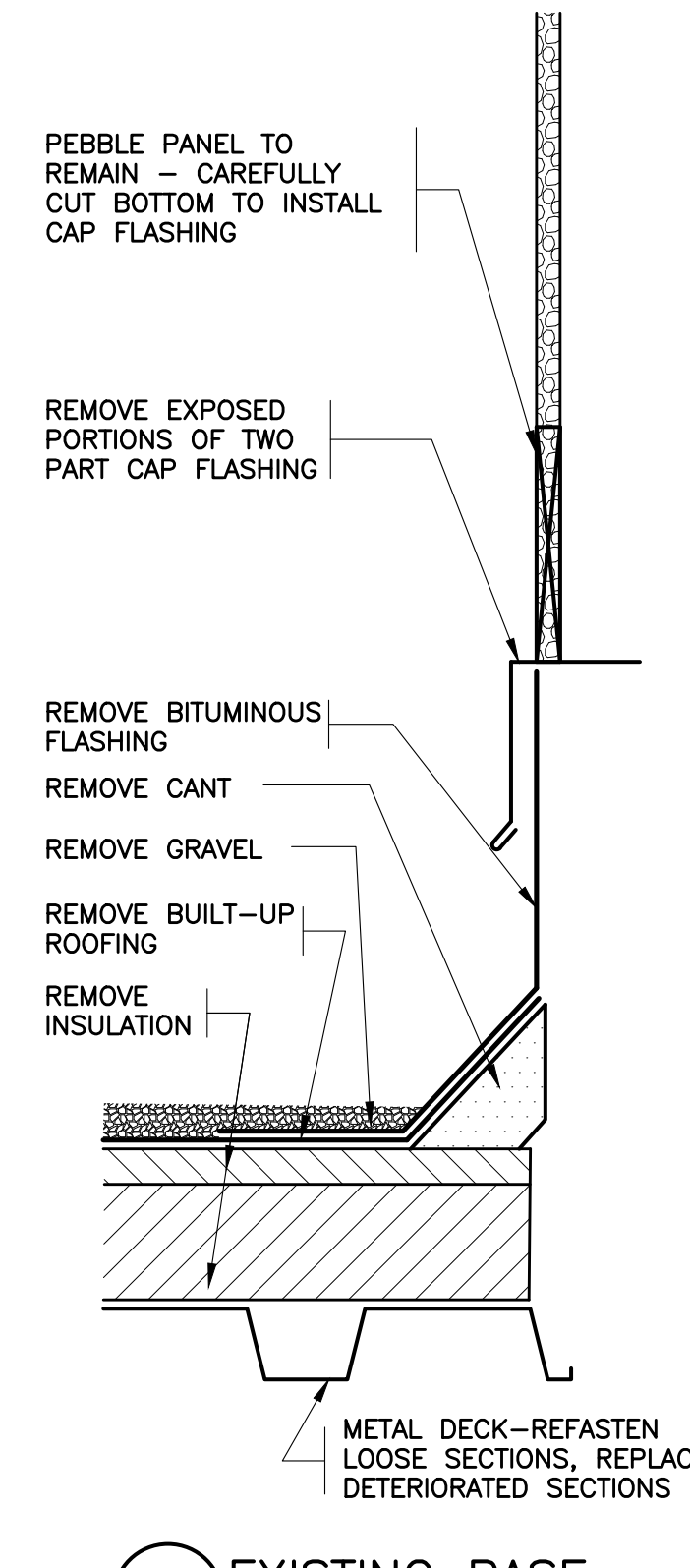
5 EXISTING EXPANSION JOINT AT BASE
SCALE: 0' 1" 2" 4" 8"



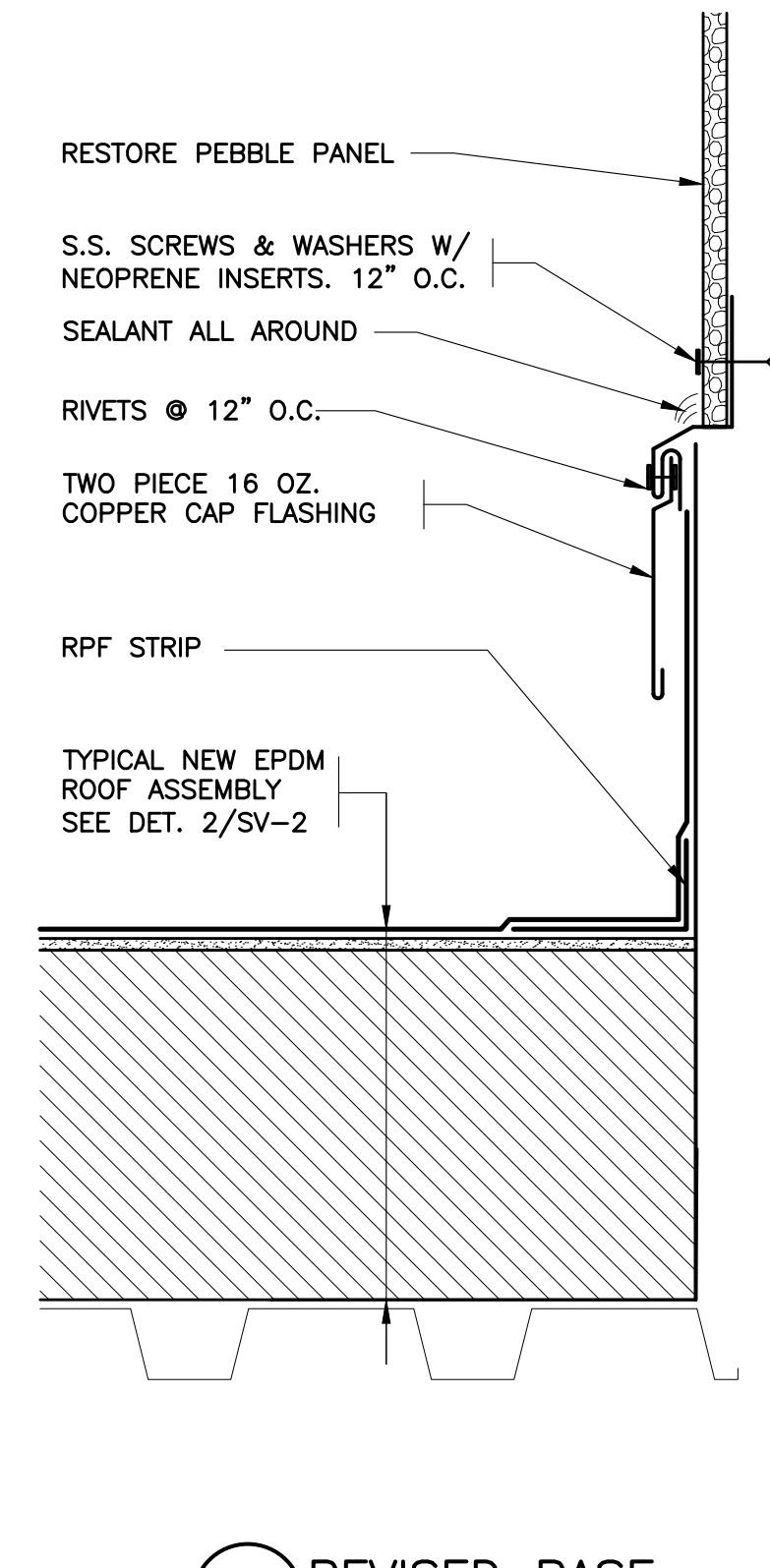
6 REVISED BASE
SCALE: 0' 1" 2" 4" 8"



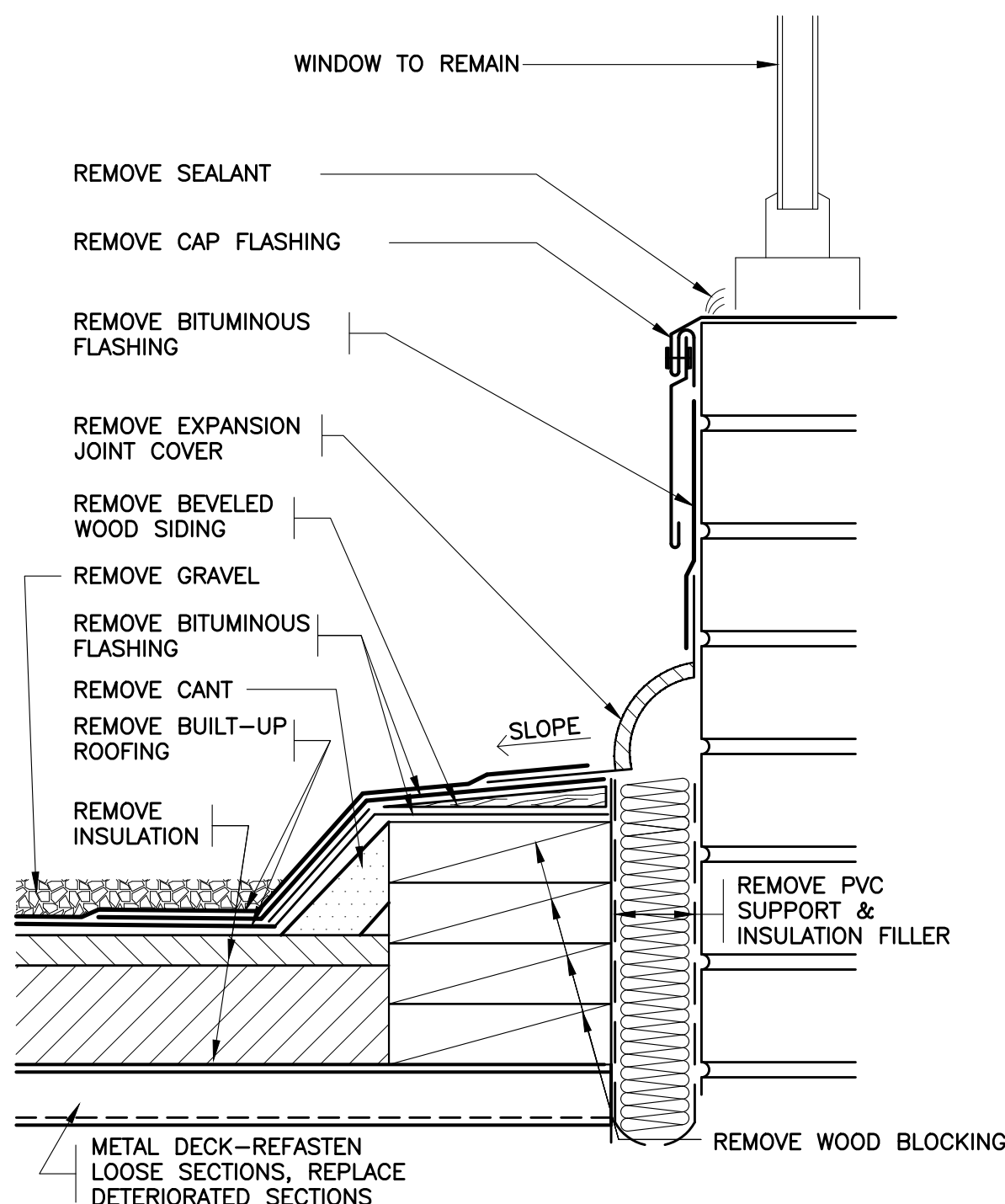
6A REVISED CAP FLASHING
SCALE: 0' 1" 2" 4" 8"



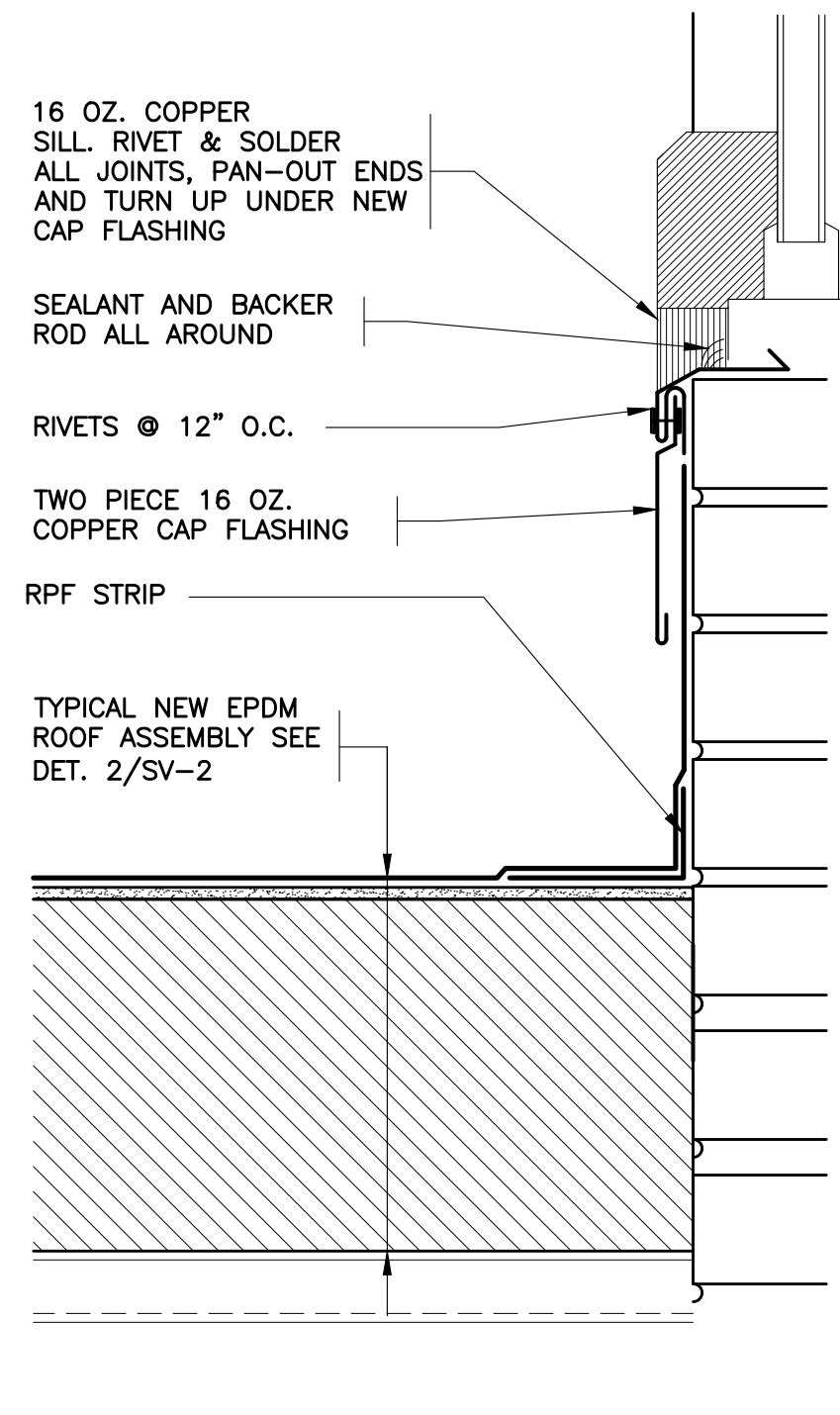
7 EXISTING BASE
SCALE: 0' 1" 2" 4" 8"



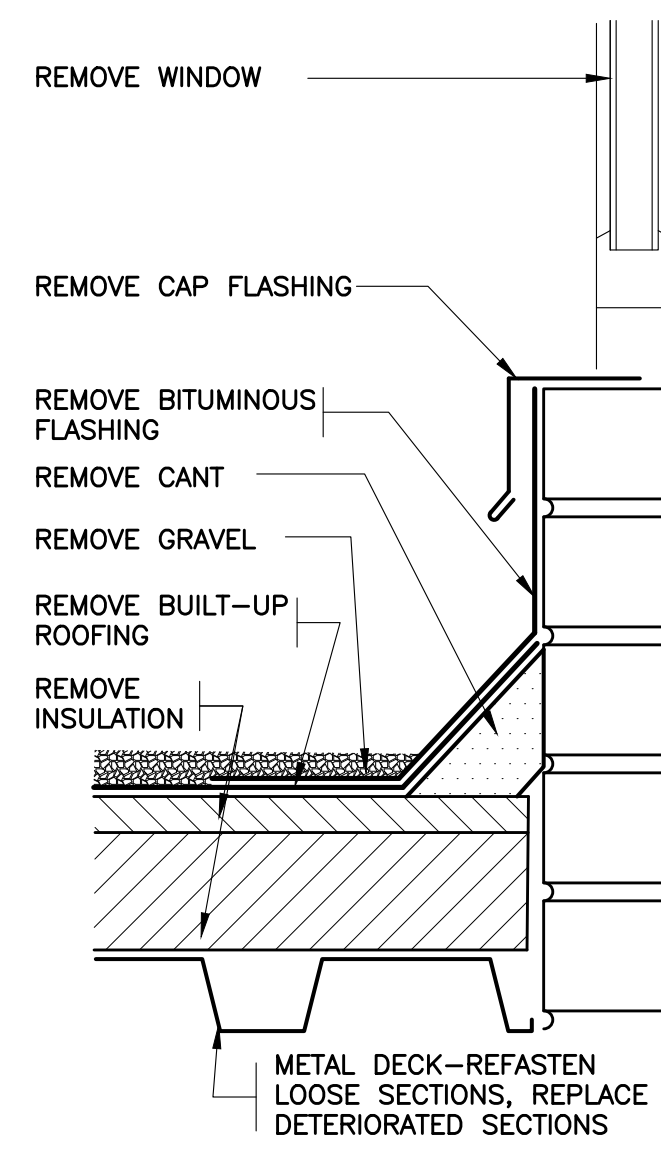
8 REVISED BASE
SCALE: 0' 1" 2" 4" 8"



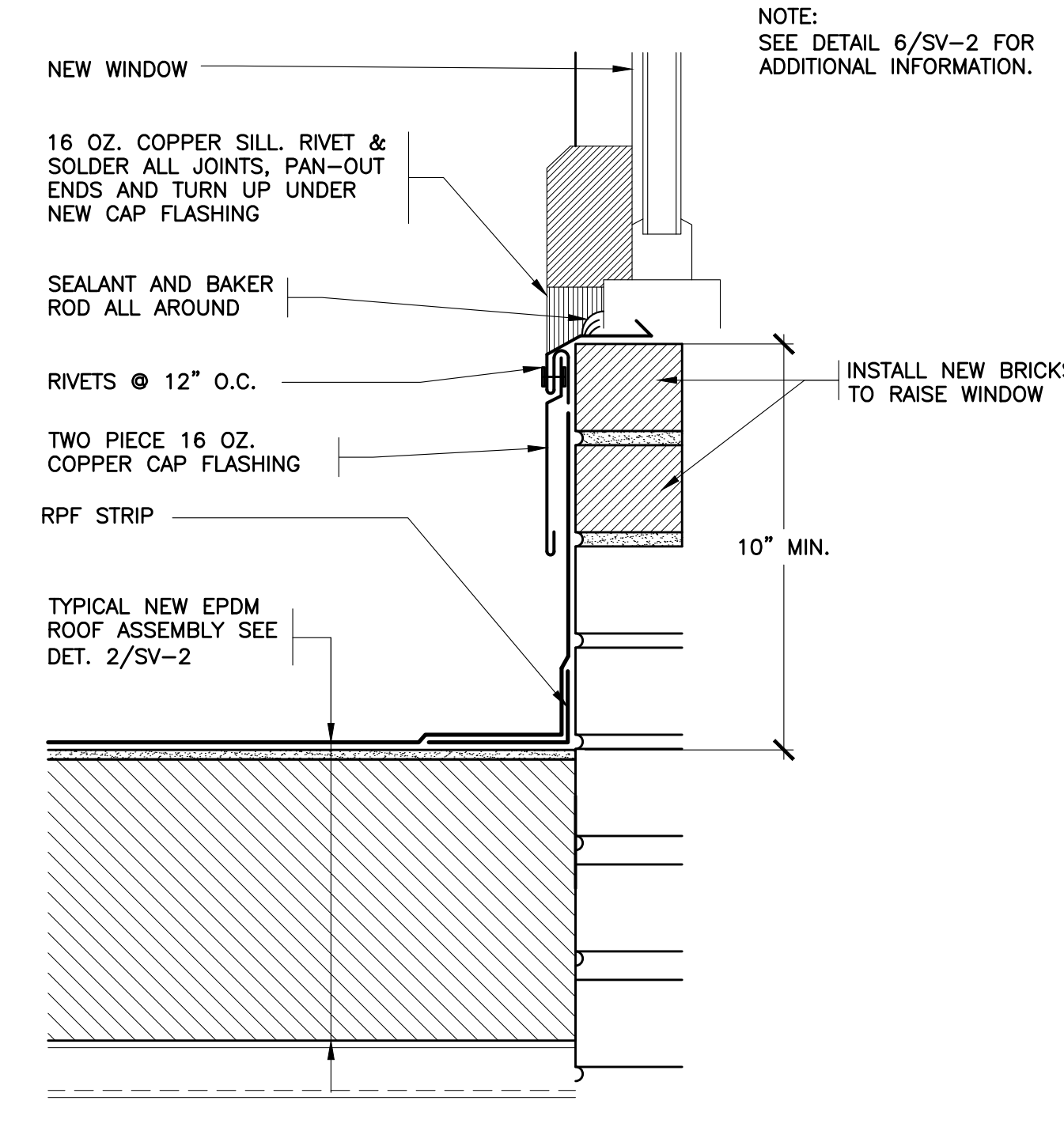
9 EXISTING BASE AT WINDOW
SCALE: 0' 1" 2" 4" 8"



10 REVISED BASE AT WINDOW
SCALE: 0' 1" 2" 4" 8"



11 EXISTING BASE AT WINDOW
SCALE: 0' 1" 2" 4" 8"



12 REVISED BASE AT WINDOW
SCALE: 0' 1" 2" 4" 8"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THE DRAWING IN ANY WAY. ALL ALTERATIONS MUST HAVE THE SEAL, ATTACHED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2013

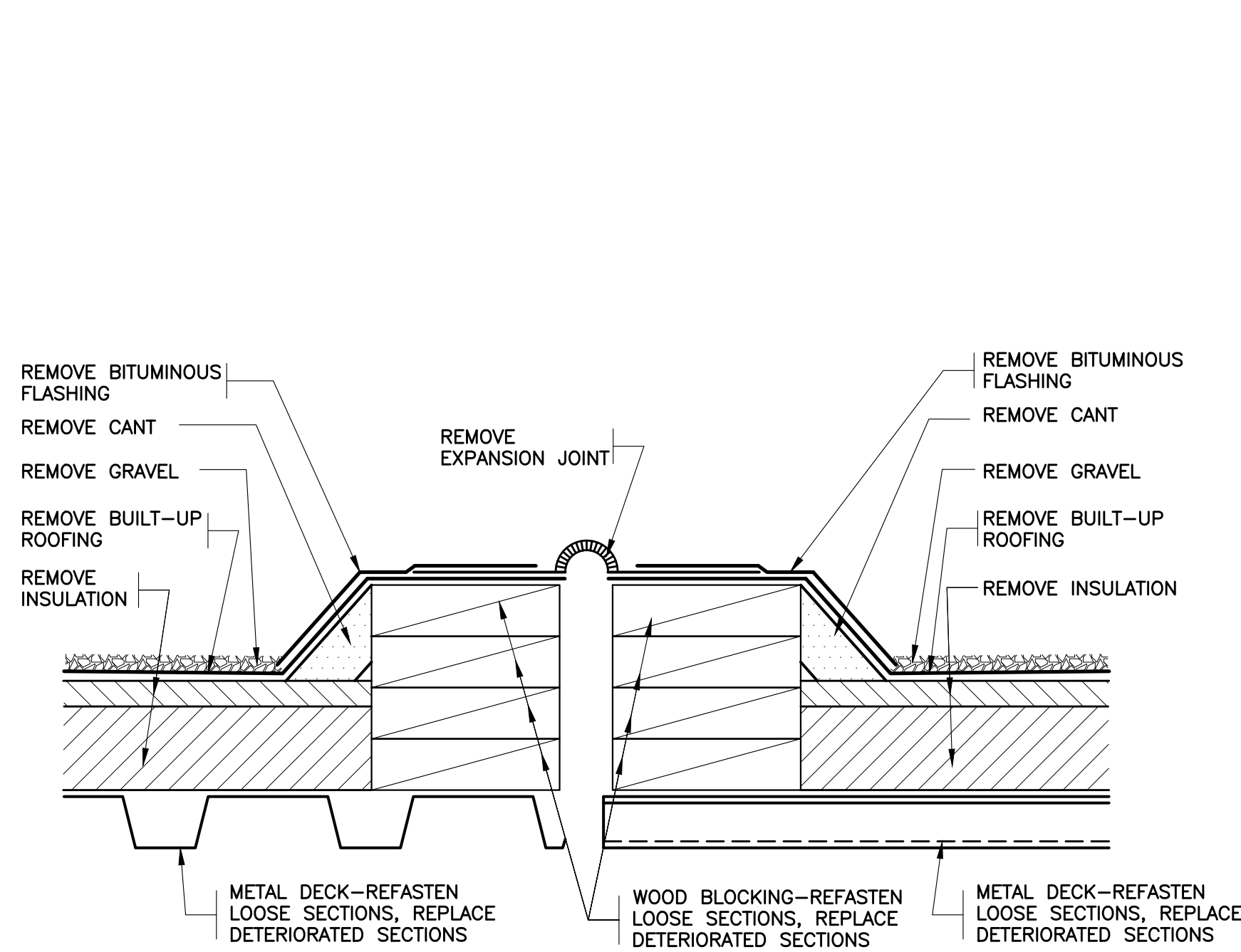
ENGINEER:
ER
Eisenbach & Ruhke Engineering, P.C.
297 Corporate Street - Union, NY 10981
(845) 367-2020 FAX (845) 367-2020
www.eandru.com

CONSULTANT(S):
FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
48 KNOXWOOD ROAD
ELMHURST NEW YORK 10823
TEL: 914.888.4444
FAX: 914.888.1717
WWW.FULLERDANGELO.COM
Copyright 2020 All Rights Reserved by FULLER & D'ANGELO P.C.

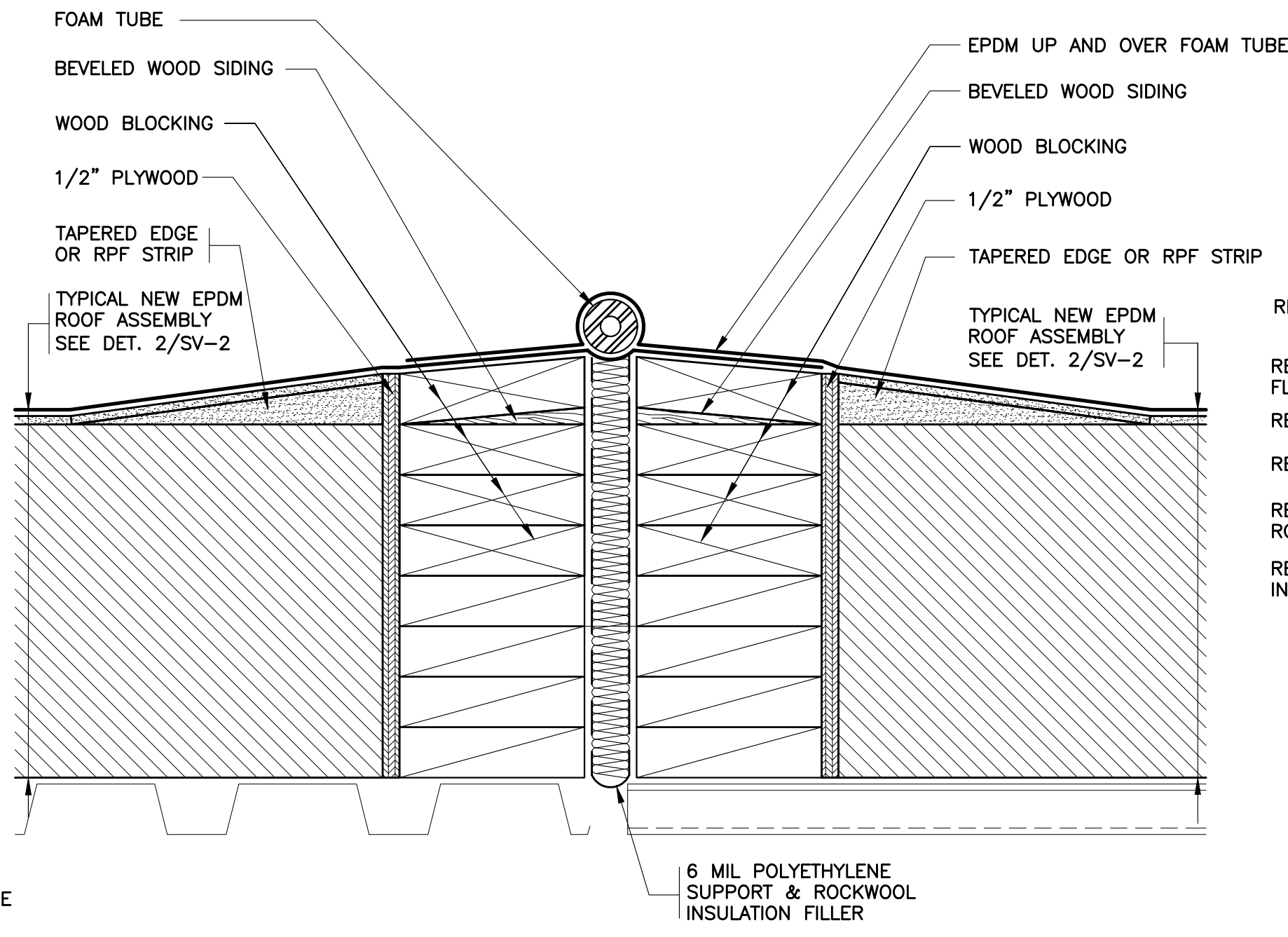
STATE OF NEW YORK
JACK D'ANGELO
No. 059445
Professional Engineer

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
SANFORDVILLE ELEMENTARY SCHOOL
ROOF REPLACEMENT
144 SANFORDVILLE ROAD, WARWICK, NY 10990
SV SED NO. 44-21-01-06-0-09-015

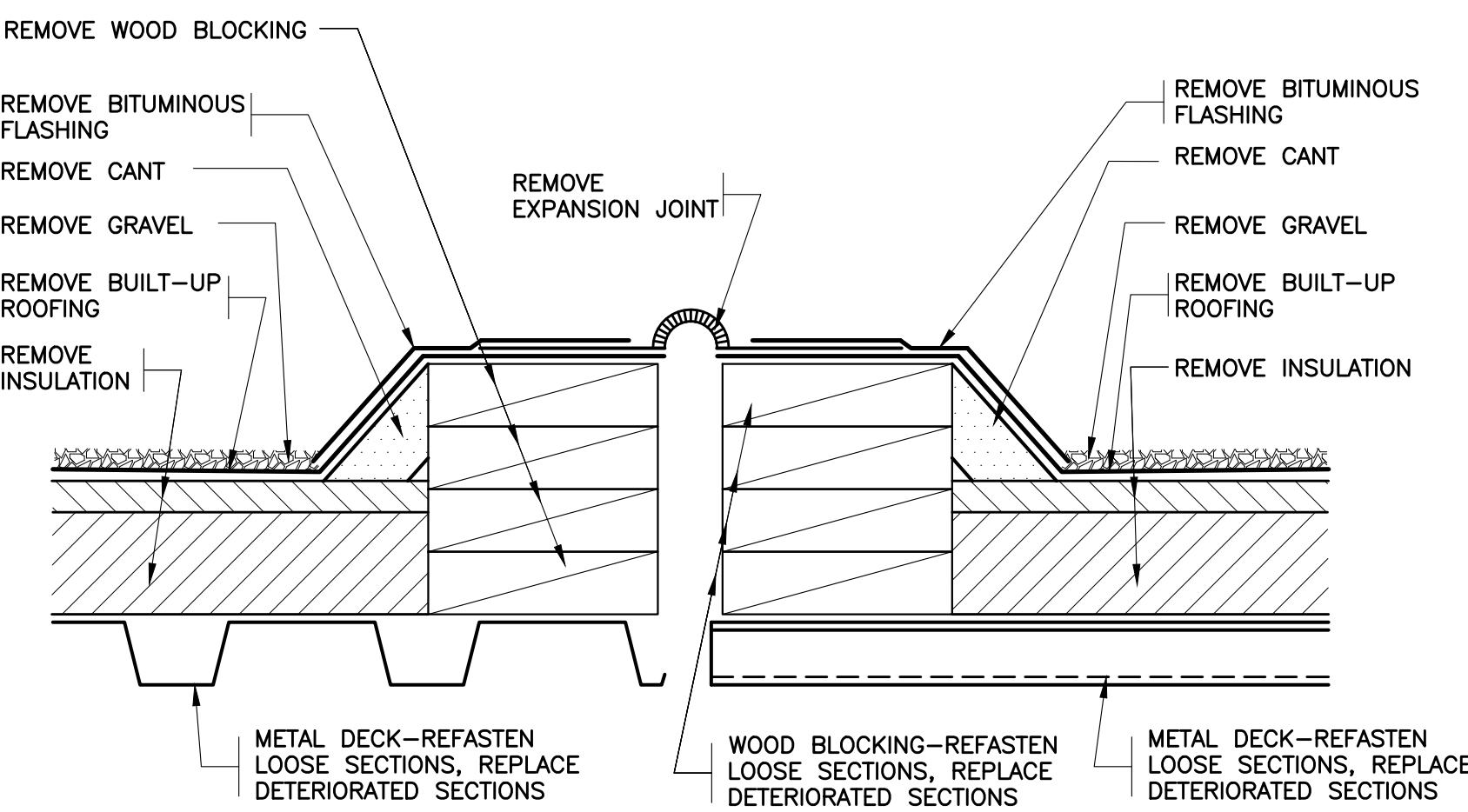
PROJECT NO.	05-20-06
BID SET	07-10-2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED
SHEET TITLE	
DETAILS 1-12	
SHEET NO.	
SV-2	



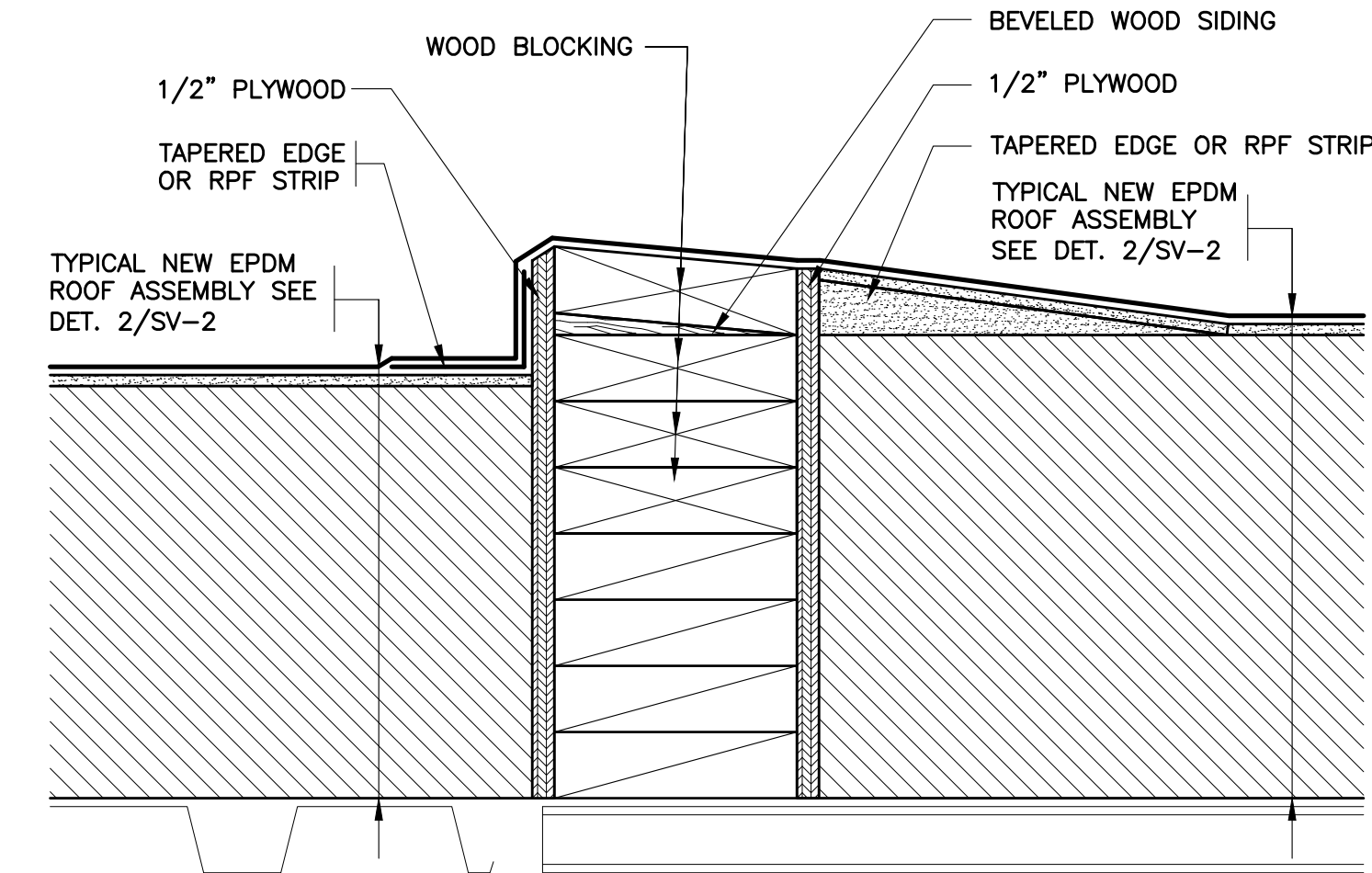
13 EXISTING EXPANSION JOINT
SCALE: 0" 1" 2" 4" 8"



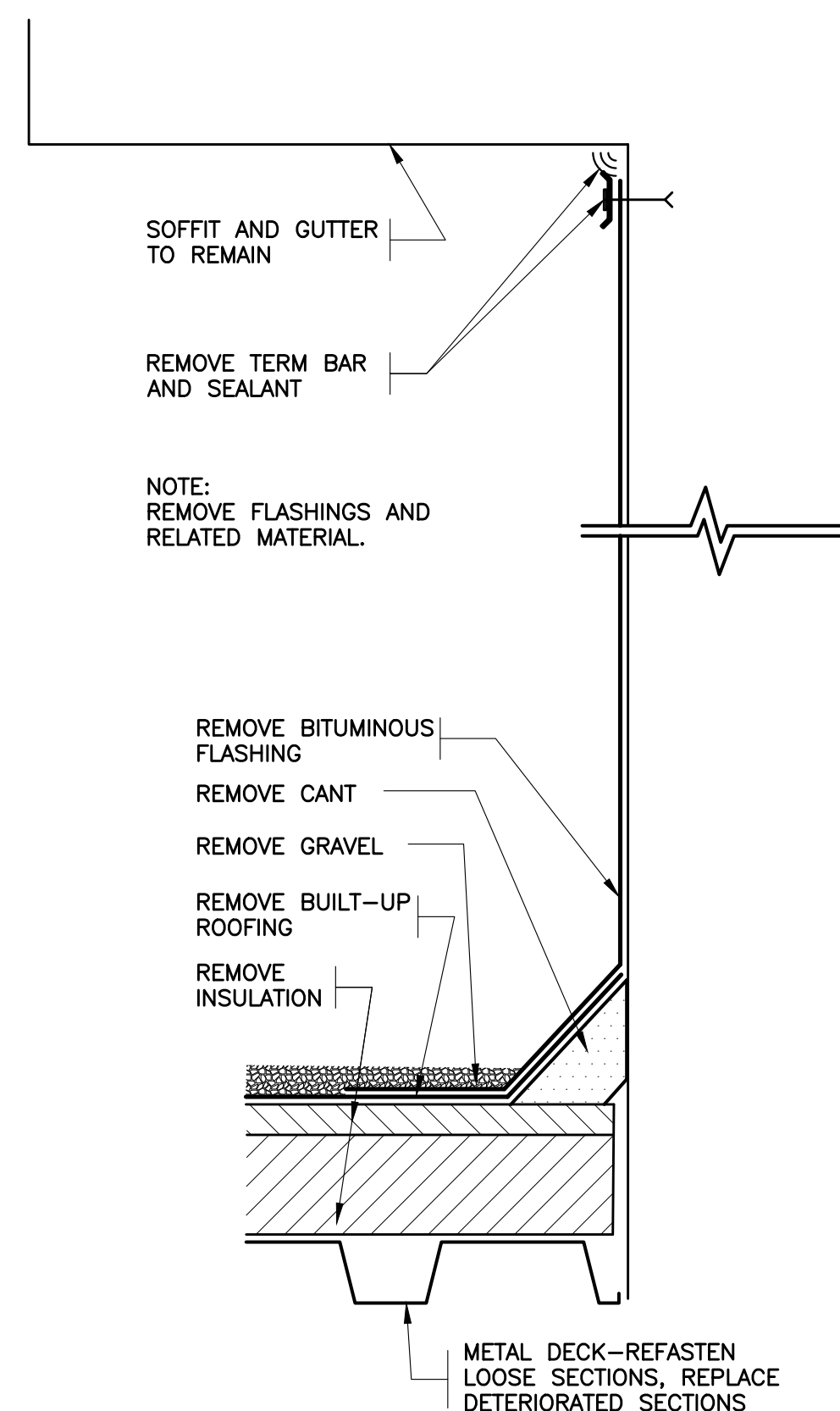
14 REVISED EXPANSION JOINT
SCALE: 0" 1" 2" 4" 8"



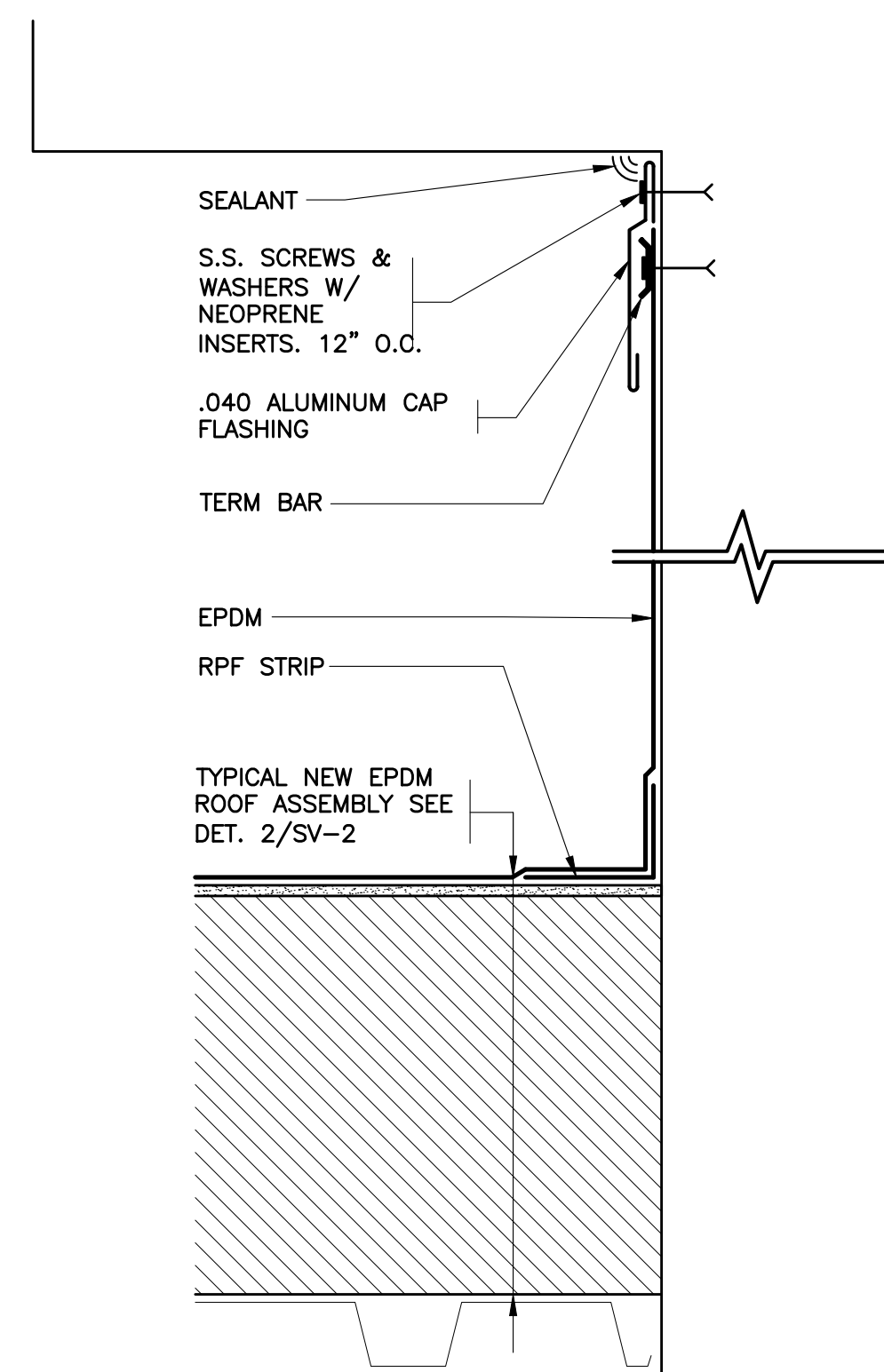
15 EXISTING EXPANSION JOINT
SCALE: 0" 1" 2" 4" 8"



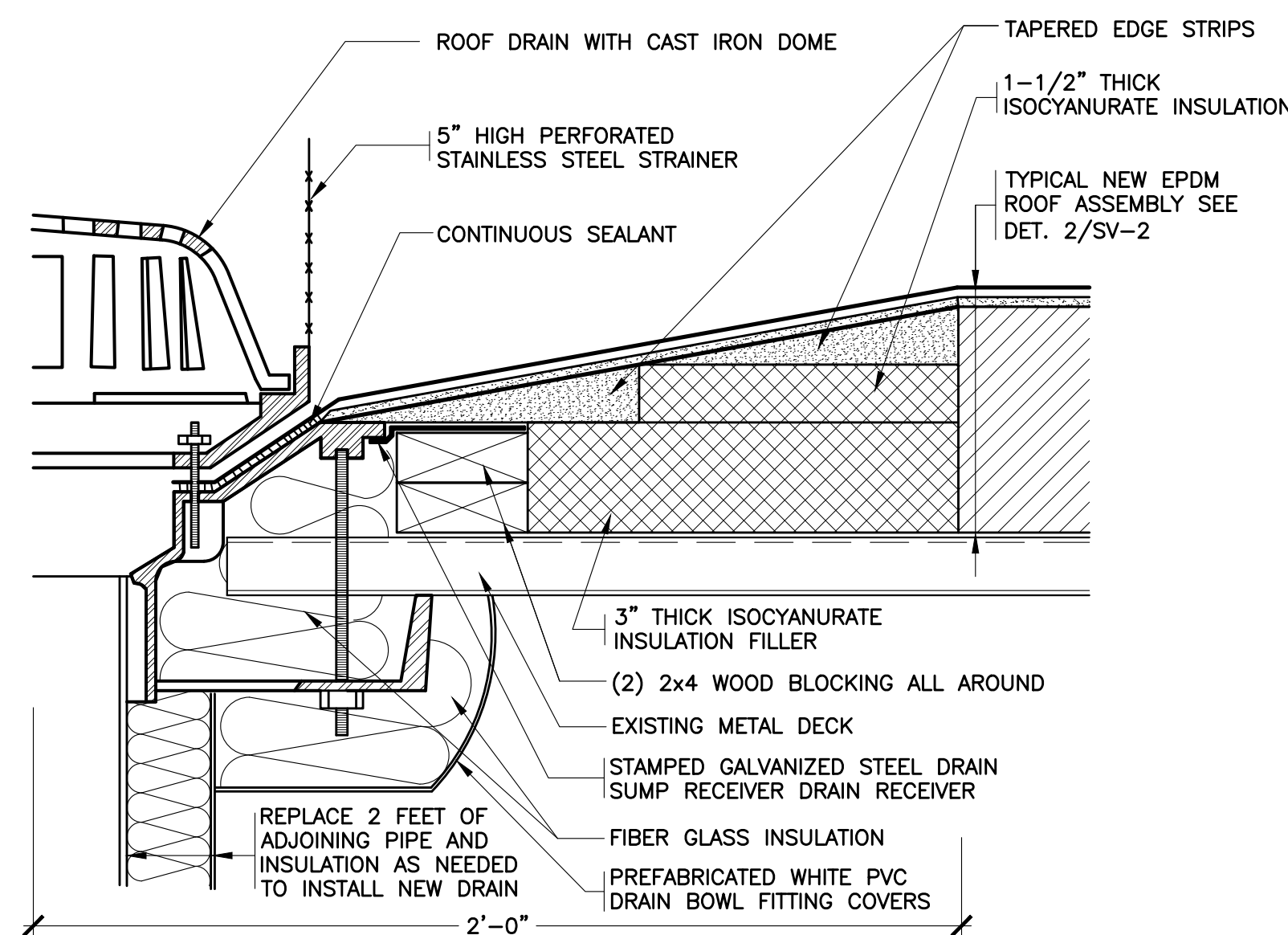
16 REVISED EXPANSION JOINT
SCALE: 0" 1" 2" 4" 8"



17 EXISTING BASE
SCALE: 0" 1" 2" 4" 8"

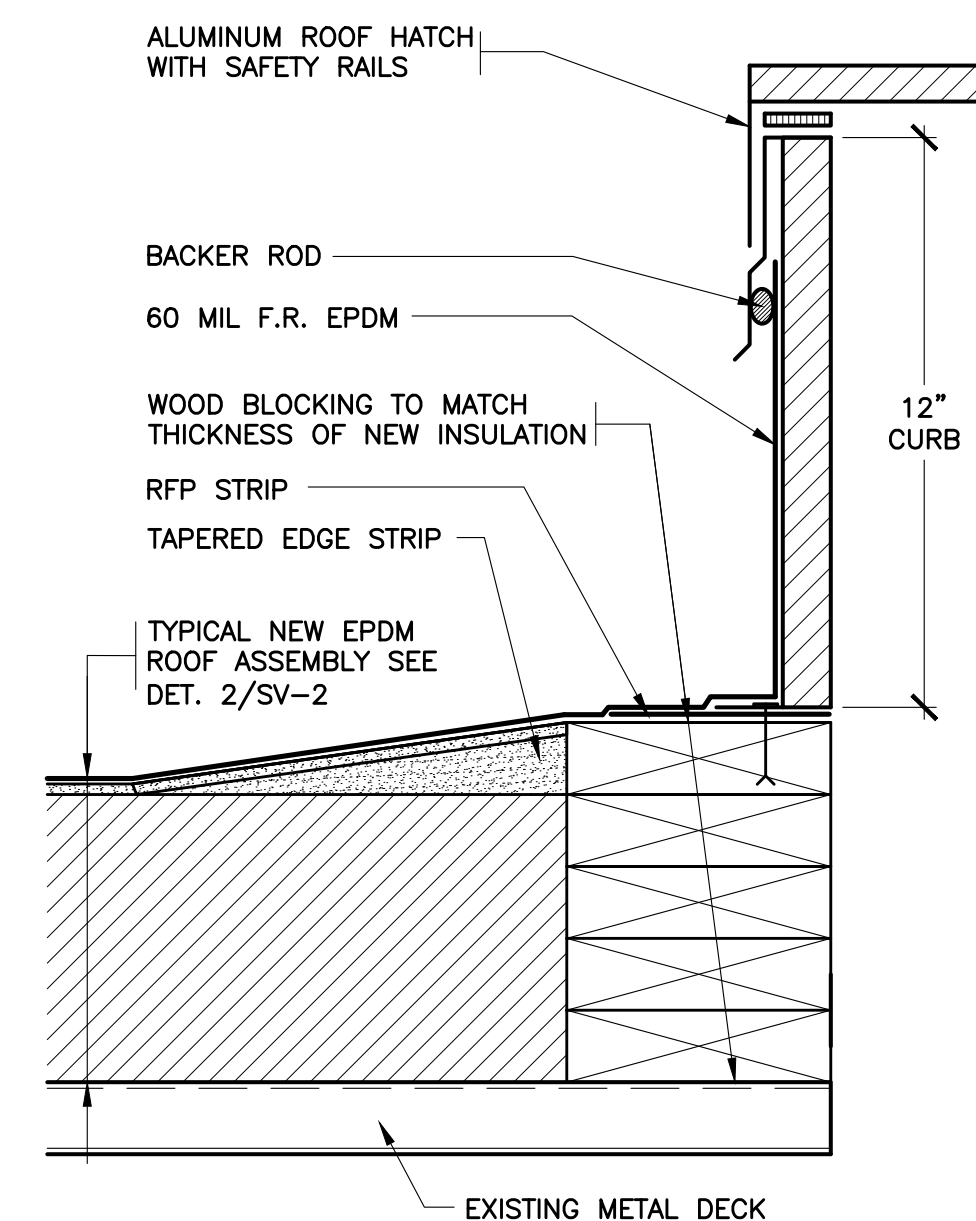


18 REVISED BASE
SCALE: 0" 1" 2" 4" 8"



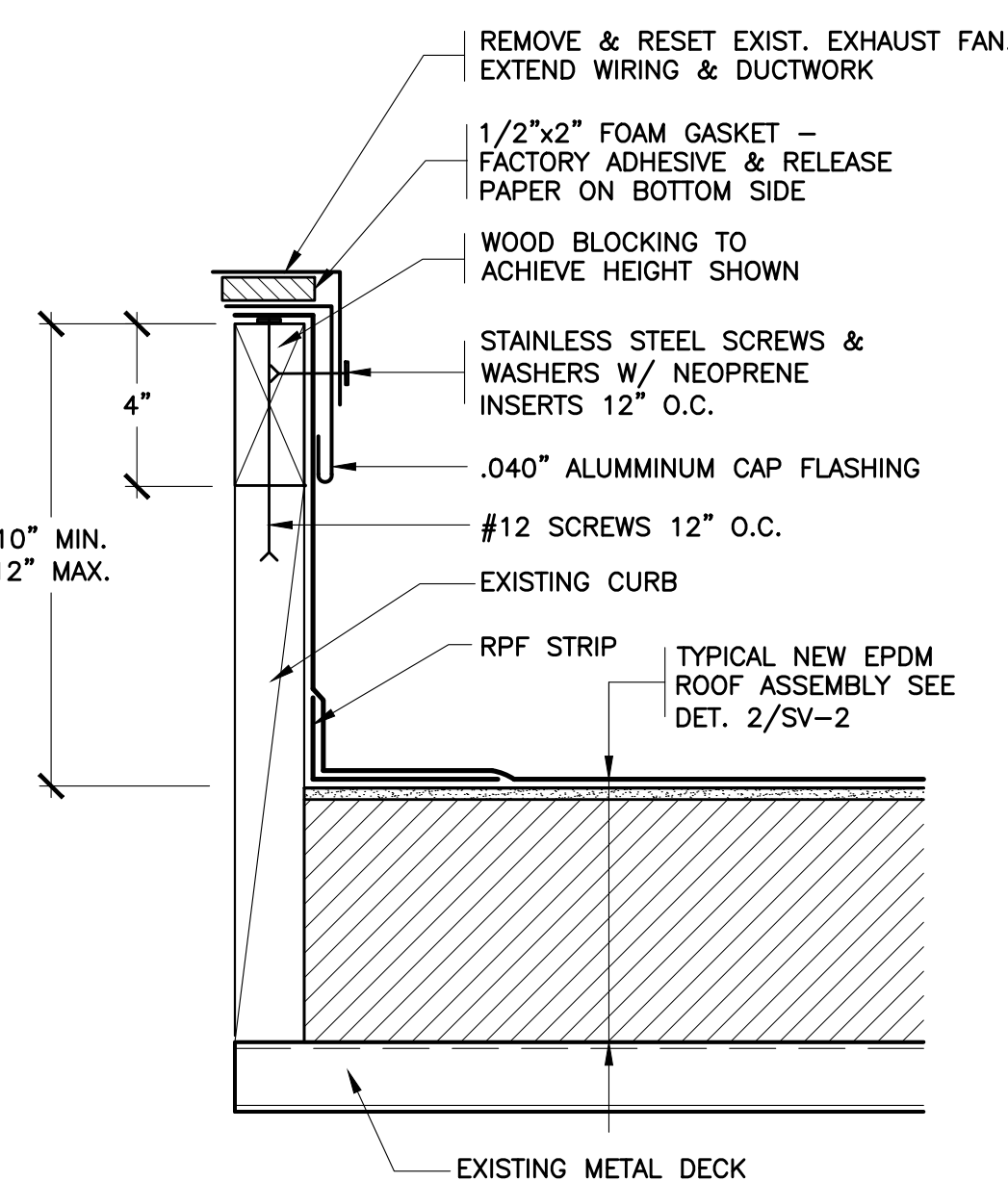
- NOTES:
1. REMOVE EXISTING ROOF DRAINS AND RELATED FLASHINGS.
2. INSTALL TAPERED EDGE STRIPS & INSULATION FILLERS TO CREATE A MINIMUM 4 FT. x 4 FT. SQUARE SUMP AT EACH DRAIN.
3. INSTALL INSULATION ON ALL HORIZONTAL DRAIN LINES, NEW VERTICAL DRAIN LINES AND THE UNDERSIDE OF THE NEW DRAIN BOWL.

19 REVISED ROOF DRAIN
SCALE: 0" 1" 2" 4" 8"

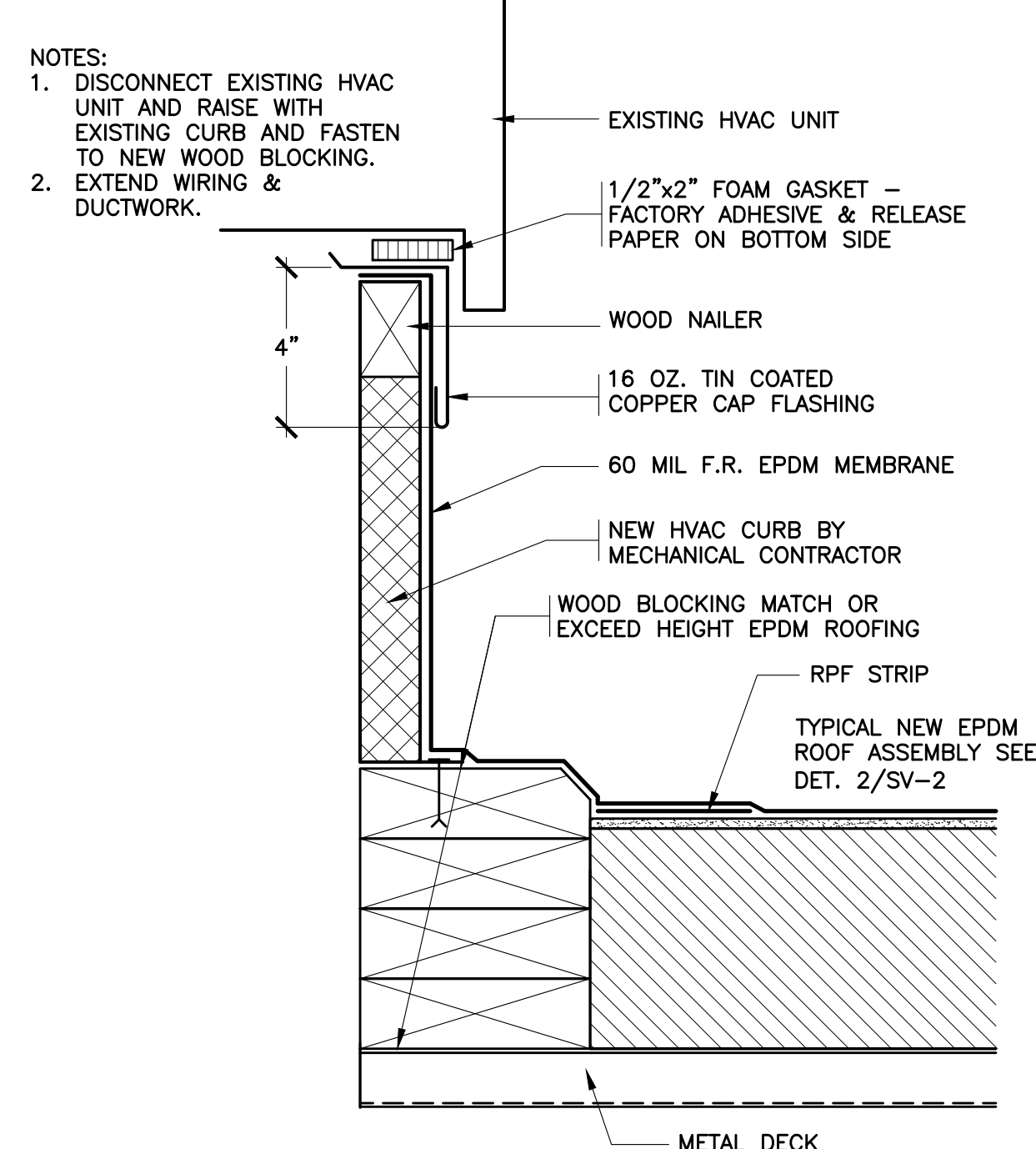


- NOTE:
REMOVE & DISPOSE OF EXISTING ROOF HATCH, CURB AND RELATED FLASHINGS.

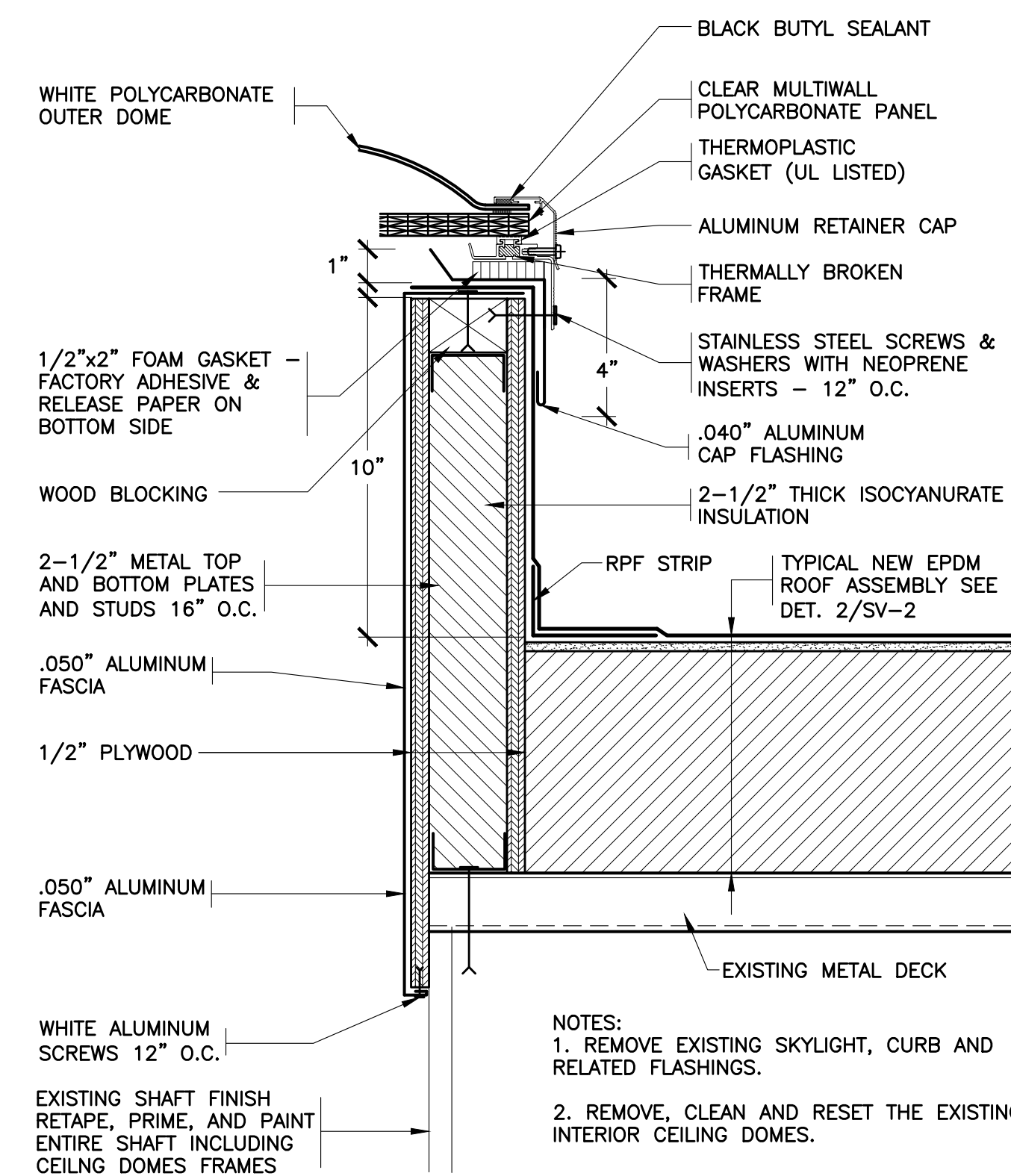
20 REVISED ROOF HATCH
SCALE: 0" 1" 2" 4" 8"



21 REVISED EXHAUST FAN
SCALE: 0" 1" 2" 4" 8"

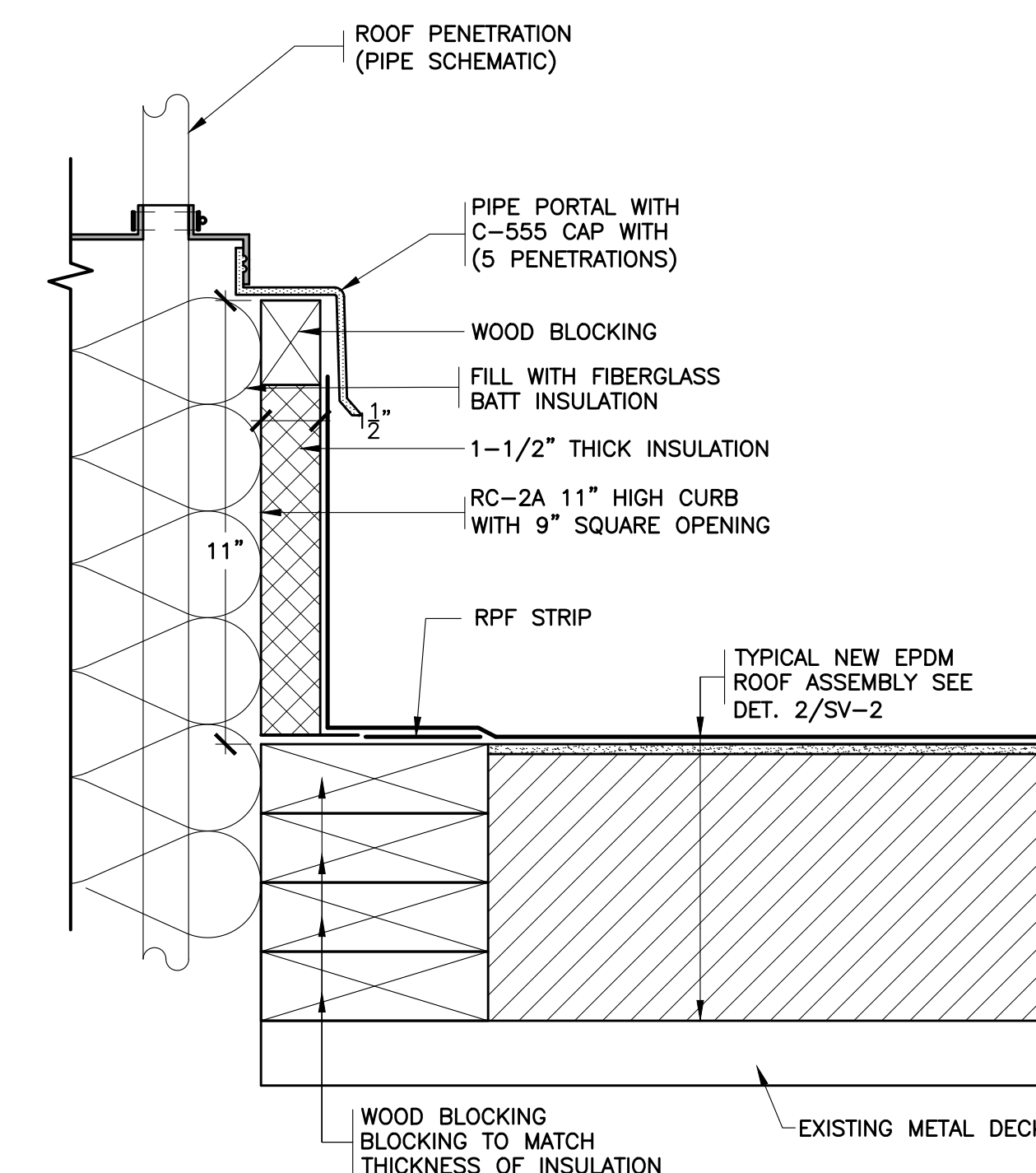


22 REVISED HVAC CURB
NOT TO SCALE



- NOTES:
1. REMOVE EXISTING SKYLIGHT, CURB AND RELATED FLASHINGS.
2. REMOVE, CLEAN AND RESET THE EXISTING INTERIOR CEILING DOME.

23 REVISED SKYLIGHT
SCALE: 0" 1" 2" 4" 8"



24 PORTALS PLUS
SCALE: 0" 1" 2" 4" 8"

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE ACTS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THE DRAWINGS IN ANY WAY. ALL ALTERATIONS MUST HAVE THE SEAL, AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

ENGINEER:
ER
Eisenbach & Ruhke Engineering, P.C.
291 Genesee Street - Utica, NY 13501
TEL: 315-735-1188, 315-735-5565
www.erenge.com

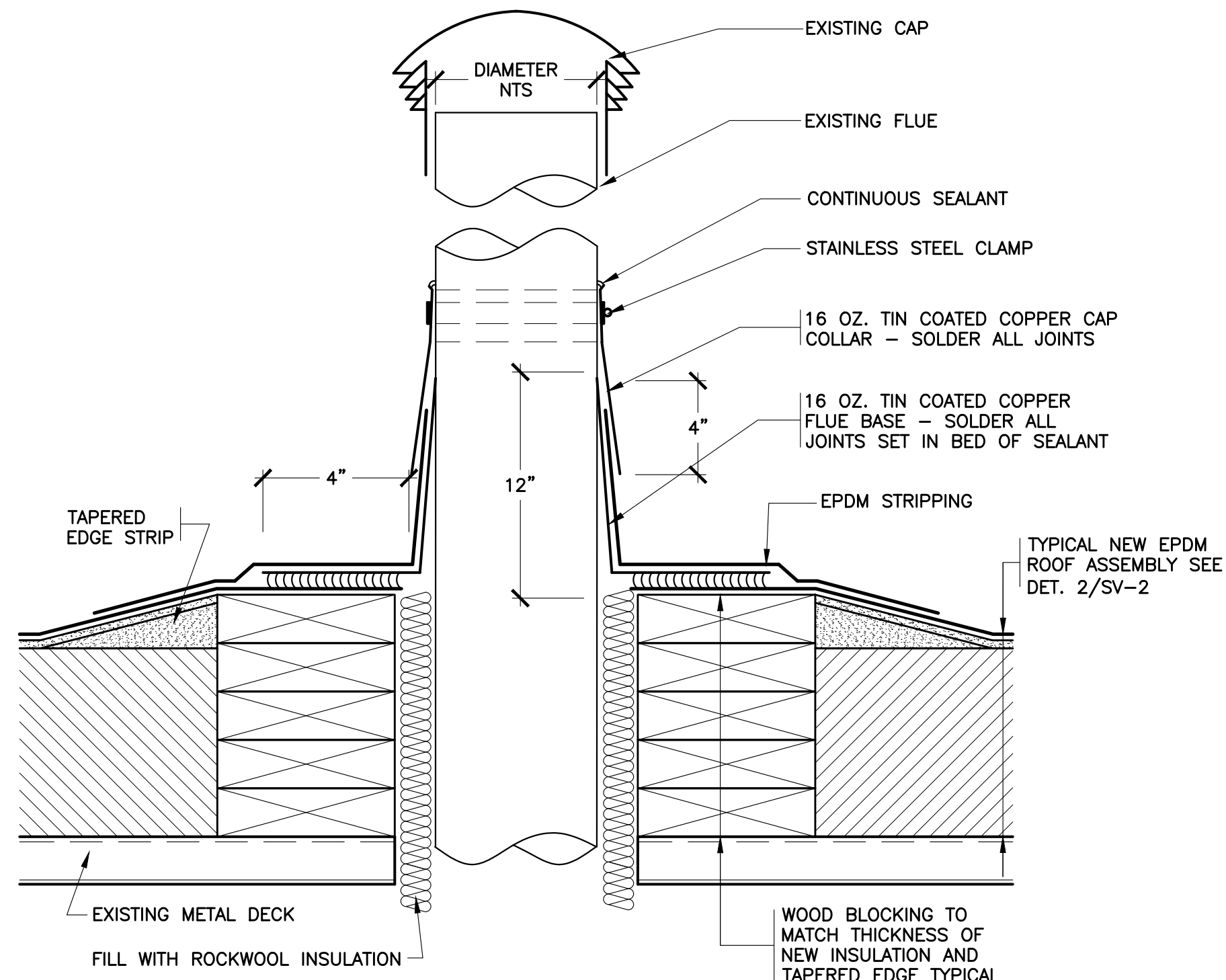
CONSULTANT(S):
FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
48 KNOLLWOOD ROAD
ELMHURST NEW YORK 10823
TEL: 914-892-4444
FAX: 914-892-1717
WWW.FULLERDANGELO.COM
Copyright 2020 All Rights Reserved by FULLER & D'ANGELO P.C.

STATE OF NEW YORK
JACK D'ANGELO
No. 05944
Professional Engineer

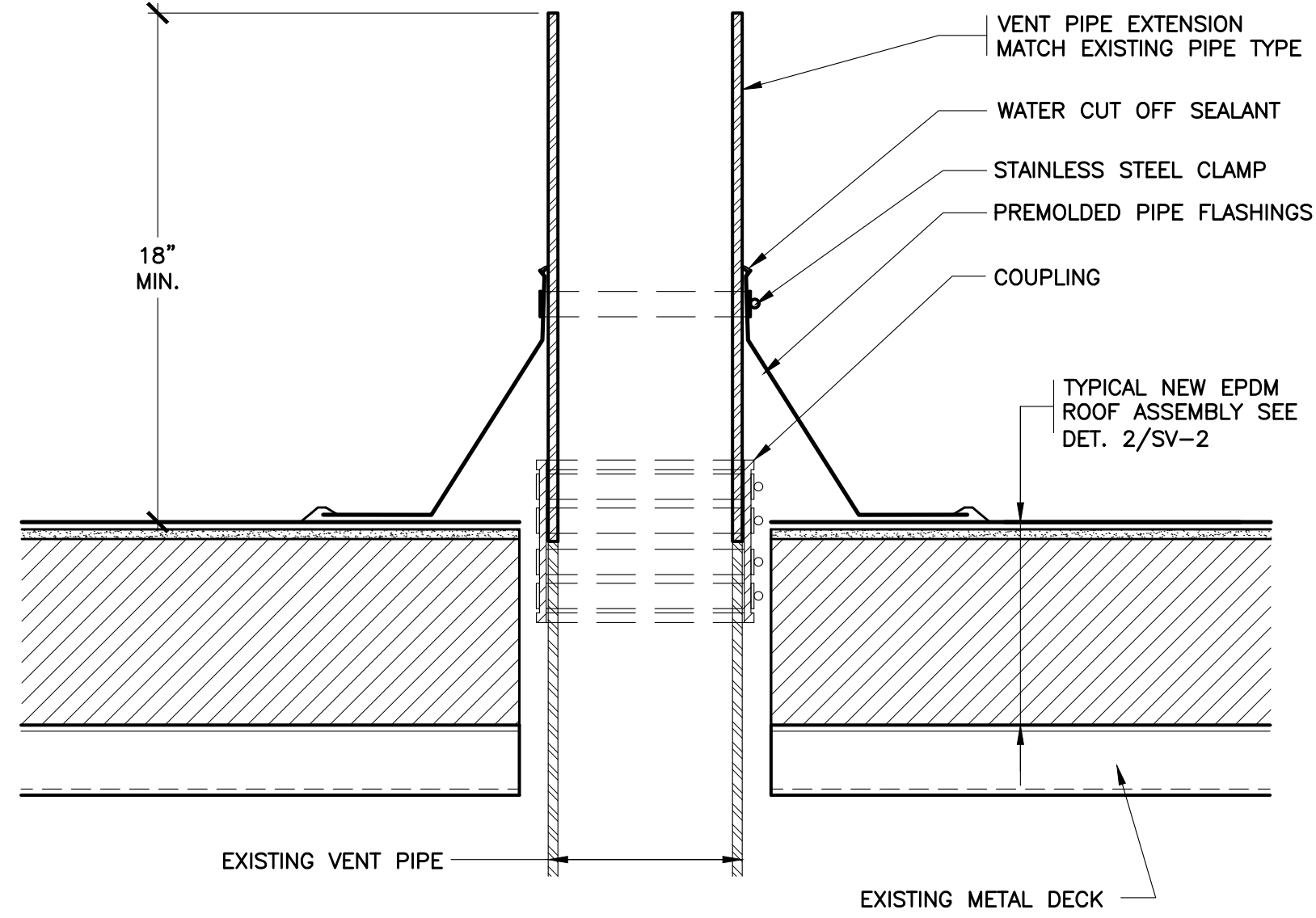
WARWICK VALLEY CENTRAL SCHOOL DISTRICT
SANFORDVILLE ELEMENTARY SCHOOL
ROOF REPLACEMENT
144 SANFORDVILLE ROAD, WARWICK, NY 10990
SV SET NO. 44-21-01-06-0-019-015

PROJECT NO.	05-20-06
BID SET	07-10-2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" x 42"
SCALE	AS NOTED
SHEET TITLE DETAILS 13-24	
SHEET NO. SV-3	

FILE PATH - N:\1 - PROJECT DIRECTORIES\1 - E & R Projects\05-20-06 Warwick Valley CSD\05-20-06 Warwick CAPITAL PROJECT 2021\CAD\SV Roof DWGs

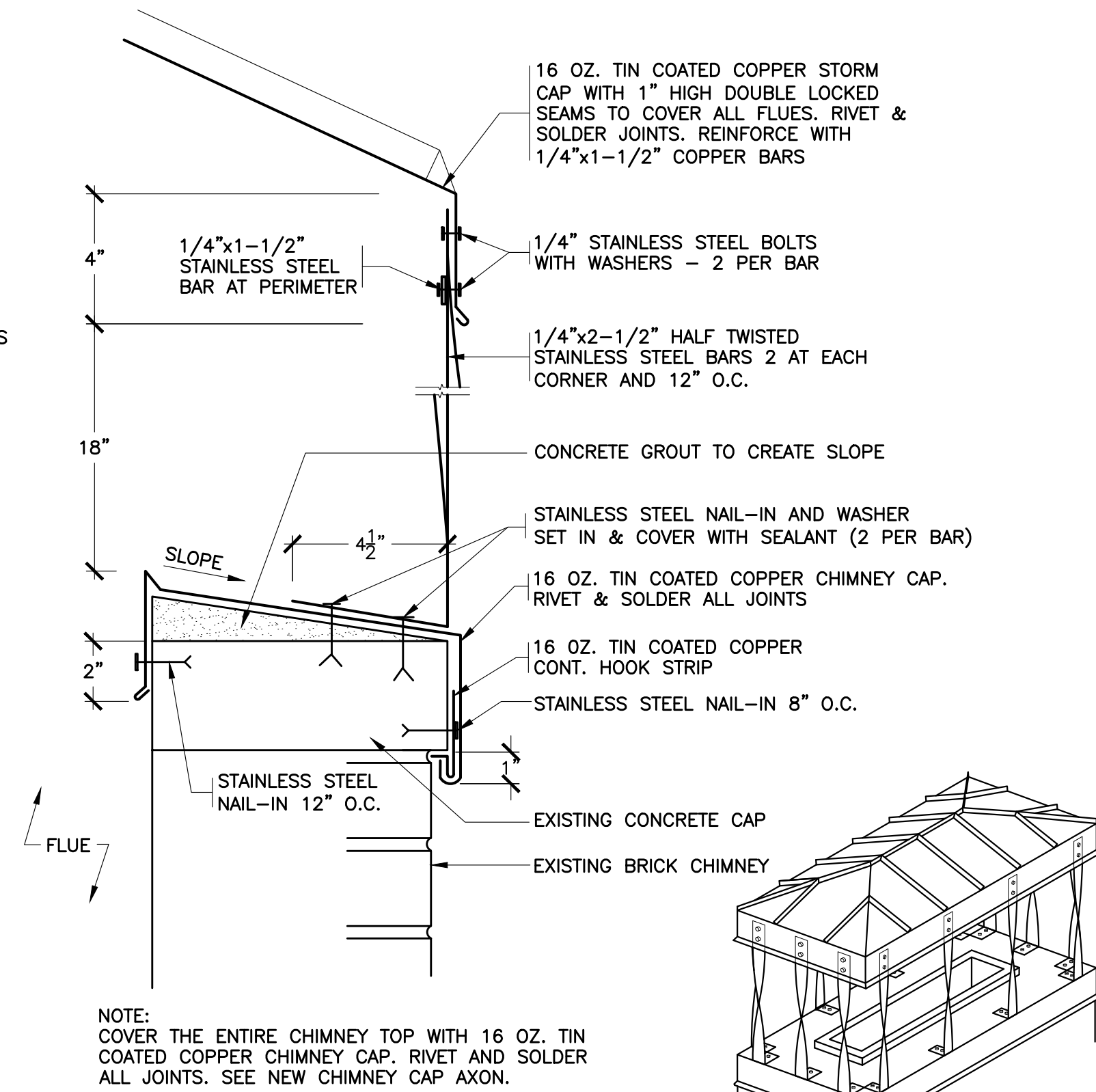


25 REVISED FLUE FLASHING
SCALE: 0 1" 2" 4" 8"

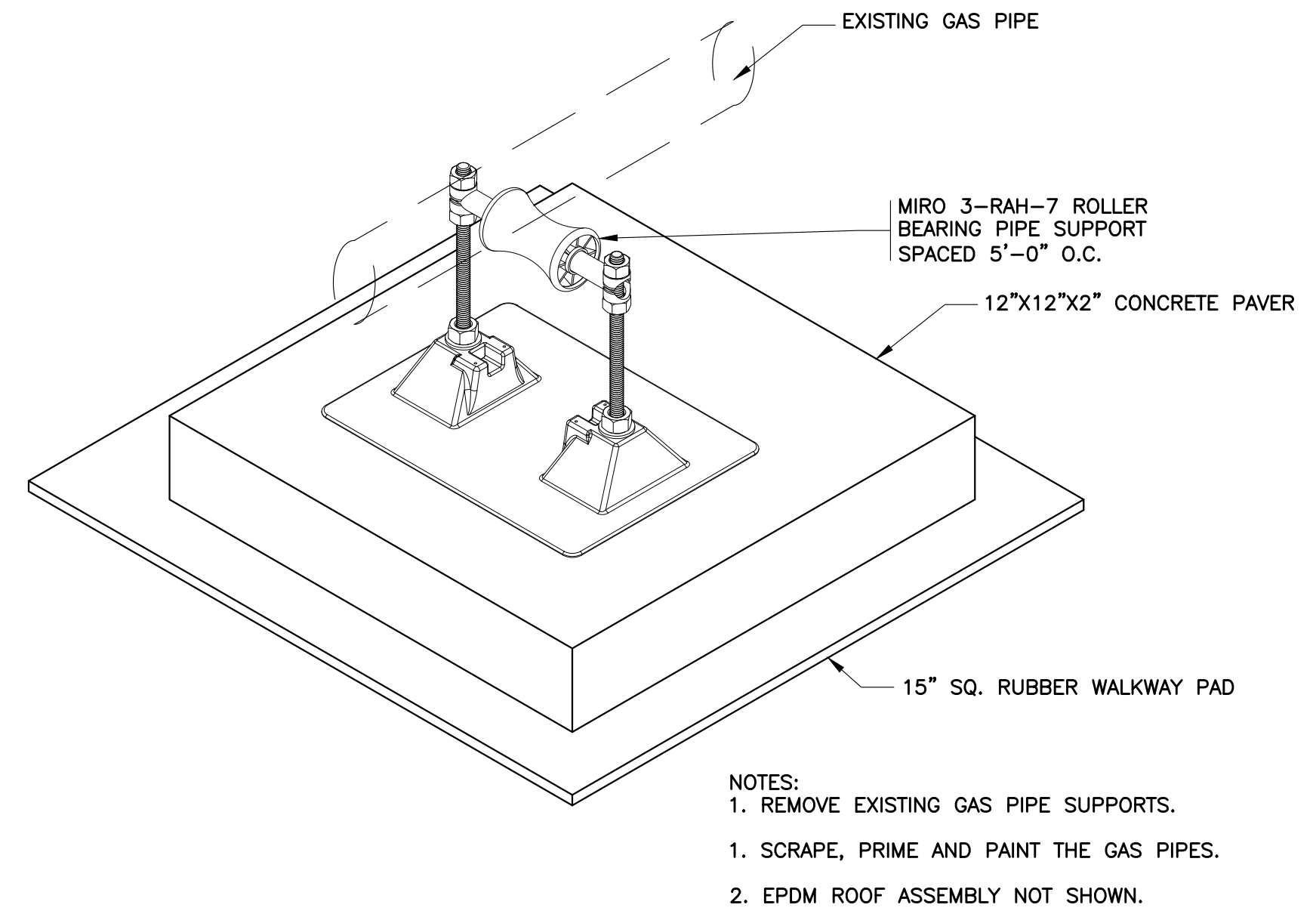


- NOTES:
1. REMOVE ALL EXISTING FLASHINGS.
 2. REMOVE KENNEDY COUPLINGS AND EXTEND VENT PIPES.
 3. DO NOT SHORTEN EXISTING VENT PIPES THAT ARE GREATER THAN 18 INCHES TALL.

26 REVISED VENT PIPE
SCALE: 0 1" 2" 4" 8"



27 NEW CHIMNEY CAP
NOT TO SCALE



28 PIPE SUPPORT
NOT TO SCALE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THE DRAWING IN ANY MANNER. ANY ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

ENGINEER:
Eisenbach & Ruhke Engineering, P.C.
291 Coneset Street - Union, NY 13501
(315) 352-1188, fax (315) 352-5365
www.eandrc.com

CONSULTANT(S):
FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
48 KNOLLWOOD ROAD
ELMHURST NEW YORK 10823
TEL: 914-892-6444
FAX: 914-892-1717
WWW.FULLERDANGELO.COM
Copyright 2020 All Rights Reserved by FULLER & D'ANGELO P.C.

STAMP
STATE OF NEW YORK
JACK EISENBACH
No. 059445
REGISTERED PROFESSIONAL ENGINEER

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
SANFORDVILLE ELEMENTARY SCHOOL
ROOF REPLACEMENT
144 SANFORDVILLE ROAD, WARWICK, NY 10990
SV SED NO. 44-21-01-06-00-019-015

PROJECT NO.	05-20-06
BID SET	07-10-2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" x 42"
SCALE	AS NOTED
SHEET TITLE	DETAILS 25-28

SHEET NO.
SV-4