

ROOF REPLACEMENT - BUILDINGS 100 TO 500

NORTHWOOD ELEMENTARY SCHOOL
2760 EAST TRIMBLE ROAD
SAN JOSE, CALIFORNIA

PREPARED FOR
BERRYESSA UNION SCHOOL DISTRICT

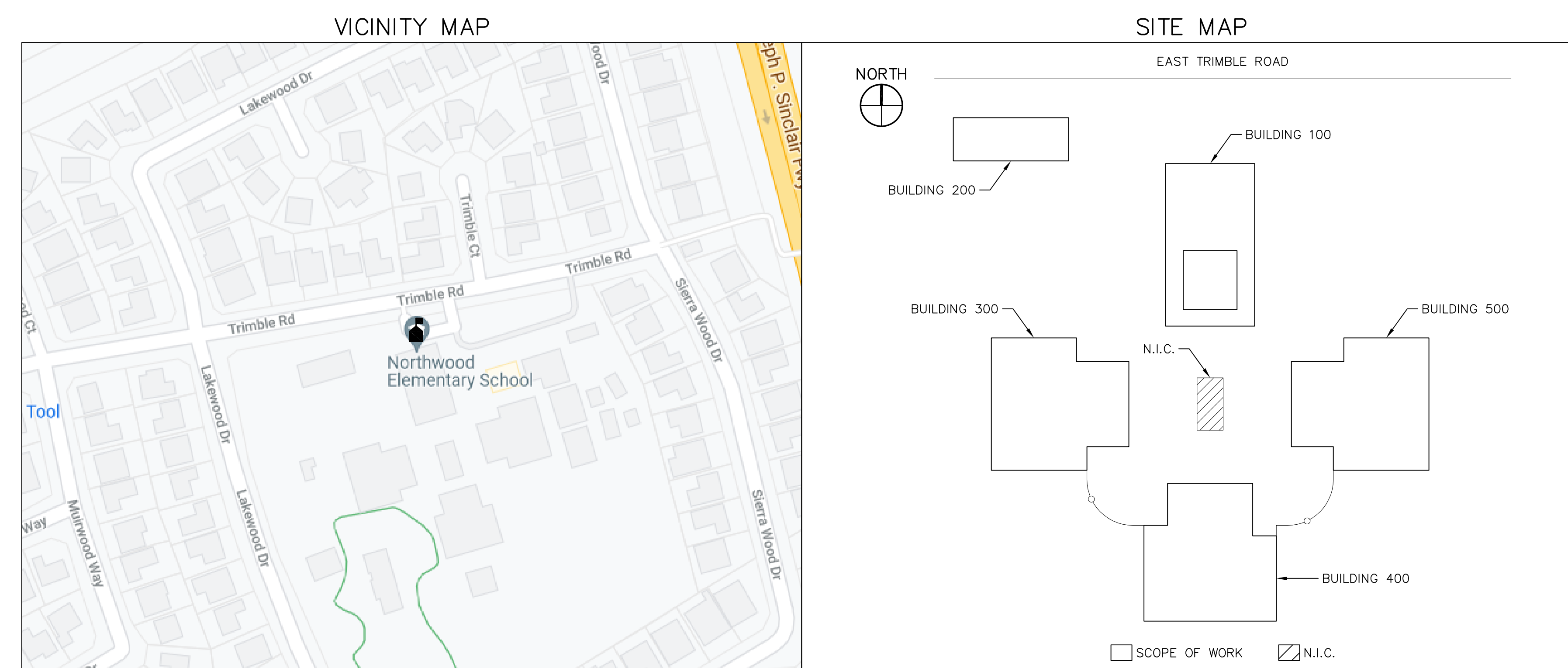
SCOPE OF PROJECT

- (1) REMOVE EXISTING BUILT-UP ROOF. ABATE AS REQUIRED.
- (2) INSTALL NEW BUILT-UP ROOF SYSTEMS.
- (3) INSTALL NEW SHEET METAL FLASHINGS.
- (4) PAINT THE NEW SHEET METAL FLASHING AND GUTTERS.

DRAWING NO	TITLE
A1.0	TITLE SHEET, GENERAL NOTES, ABBREVIATIONS AND LEGEND
AD2.0	ROOF DEMOLITION PLAN
A2.0	ROOF SITE PLAN
A2.1	BUILDINGS 100 AND 200 ROOF PLAN
A2.2	BUILDINGS 300, 400 AND 500 ROOF PLAN
A10.40	ROOF REPLACEMENT DETAILS
A10.41	ROOF REPLACEMENT DETAILS
A10.42	ROOF REPLACEMENT DETAILS
A10.43	ROOF REPLACEMENT DETAILS

DEFERRED SUBMITTALS

NONE



GENERAL NOTES

- (1) THE INFORMATION SHOWN ON THE DRAWINGS WAS COMPILED FROM VARIOUS SOURCES AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL VISIT THE SITE(S) AND VERIFY DIMENSIONS AND FIELD CONDITIONS PRIOR TO BID SUBMISSION.
- (2) THE CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER PRIOR TO BID SUBMISSION.
- (3) REFER TO PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR MATERIAL AND WORKMANSHIP.
- (4) ALL WORK SHALL CONFORM WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO THE PROJECT.
- (5) THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK PRIOR TO THE START OF CONSTRUCTION.
- (6) THE CONTRACTOR SHALL MAKE SUBMITTALS AS REQUIRED BY THE PROJECT SPECIFICATIONS. FOR CLARITY, DETAILS SHOWN IN THESE DRAWINGS ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME OR SIMILAR NATURE FOR SIMILAR CONDITIONS.
- (7) ALL COMPONENTS SHOWN ON THE DRAWING SHALL BE NEW UNLESS INDICATED AS EXISTING (E).
- (8) THE ARCHITECT/ENGINEER WILL HAVE A REPRESENTATIVE ON-SITE, PART-TIME, DURING CONSTRUCTION TO OBSERVE FOR COMPLIANCE WITH THE DESIGN INTENT AND TO ASSIST THE CONTRACTOR IN RESOLVING VARIATION IN THE EXISTING CONSTRUCTION. THE CONSTRUCTION DOCUMENTS ADDRESS KNOWN CONDITIONS, BUT IT IS ANTICIPATED THAT HIDDEN CONDITIONS WILL BE ENCOUNTERED DURING CONSTRUCTION. THE ARCHITECT/ENGINEER WILL OBSERVE SUCH CONDITIONS AND ISSUE CLARIFICATIONS OR MODIFICATIONS OF EXISTING DESIGN TO REFLECT THOSE CONDITIONS AND DOCUMENT ALL CHANGES.
- (9) NUMERICAL DIMENSIONS SHALL TAKE PRIORITY OVER SCALED.
- (10) UNLESS OTHERWISE NOTED, ALL ANGLES SHALL BE RIGHT ANGLES. ALL LINES WHICH APPEAR PARALLEL SHALL BE PARALLEL, AND ALL ITEMS WHICH APPEAR CENTERED SHALL BE CENTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL LINES TRUE, PLUMB, AND SQUARE.
- (11) DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL AND SMALLER SCALE DRAWINGS. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL SCALED DIMENSIONS BEFORE PROCEEDING WITH THE WORK.
- (12) THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING NECESSARY TO ENSURE THE STABILITY OF ANY AND ALL PARTS OF THE BUILDING CONSTRUCTION.
- (13) ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

ROOF GENERAL NOTES

- (1) REFER TO THE PROJECT MANUAL FOR WATERTIGHTNESS REQUIREMENTS AFTER ROOF DEMOLITION.
- (2) REFER TO THE ROOF TYPE DETAILS FOR ROOF SYSTEM COMPONENTS (1/A10.40).
- (3) REPORT UNSUITABLE SUBSTRATE CONDITIONS TO THE OWNER. DO NOT INSTALL ROOFING OVER UNSUITABLE SUBSTRATES.

ABBREVIATIONS

&	AND	I.D.	INSIDE DIAMETER
∠	ANGLE	INT.	INTERIOR
⊙	AT	JT.	JOINT
⊕	CENTERLINE	LT.	LIGHT JOINT
⊘	DIAMETER/ROUND	MAX.	MAXIMUM
#	POUND OR NUMBER	MEMB.	MEMBRANE
AC	AIR CONDITIONING	MFR.	MANUFACTURER
ACOUS.	ACOUSTICAL	MIN.	MINIMUM
A.D.	AREA DRAIN	MIR.	MIRROR
ADJ.	ADJUSTABLE	MISC.	MISCELLANEOUS
AL	ALUMINUM	MTL.	METAL
APPROX.	APPROXIMATE	MUL.	MULLION
ARCH.	ARCHITECTURAL	N	NORTH
BLDG.	BUILDING	N.C.	NOT IN CONTRACT
BLK.	BLOCK	NO. OR #	NUMBER
BLKG.	BLOCKING	NOM.	NOMINAL
BUR	BUILT-UP ROOF	N.T.S.	NOT TO SCALE
CI.	CAST IRON	O.C.	ON CENTER
C.L.C.	CEILING	O.D.	OUTSIDE DIAMETER
CLKG.	CEILING	OF	OVERFLOW
COL.	COLUMN	OPNG.	OPENING
CONC.	CONCRETE	OPP.	OPPOSITE
CONN.	CONNECTION	PL.	PLATE
CONSTR.	CONSTRUCTION	PLYWD.	PLYWOOD
CONT.	CONTINUOUS	PRECAST.	PRE-CAST
CTSK.	COUNTER SUNK	Q.T.	QUARRY TILE
CTYD.	COURTYARD	RAD.	RADIUS
DBL.	DOUBLE	RD.	ROOF DRAIN
DET.	DETAIL	REF.	REFERENCE
DIA.	DIAMETER	REF.	REFERENCE
DIM.	DIMENSION	REQ.	REQUIRED
D.O.	DOOR OPENING	REGTR.	REGISTERED
DR.	DOOR	R.W.	RAIN WATER LEADER
DS	DOWNSPOUT	S	SOUTH OR SKYLIGHT
(E) OR EXIST	EXISTING	SCHED.	SCHEDULE
E	EAST	SECT.	SECTION
E.A.	EACH	SHT.	SHEET
E.J.	EXPANSION JOINT	SM.	SIMILAR
ELEC.	ELEVATION	SM.	SHEET METAL
EQ.	ELECTRICAL	SPEC.	SPECIFICATION
EQ.	EQUAL	SQ.	SQUARE
EXT.	EXTERIOR	SS	STAINLESS STEEL
FAN	FAN	ST.	STEEL
F.A.	FIRE ALARM	STD.	STANDARD
F.D.	FLOOR DRAIN	SUSP.	SUSPENDED
FDN.	FOUNDATION	SYM.	SYMMETRICAL
FLASH.	FLOOR FLASHING	T & G	TONGUE AND GROOVE
FT.	FOOT OR FEET	THK.	THICK
FTG.	FOOTING	TRIP	TRIP
GA.	GAUGE	TYP.	TYPICAL
GALV.	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
GSM.	GALVANIZED SHEET	V.I.F.	VERIFY IN FIELD
GWB.	GYP-SUM BOARD	W	WEST
H.B.	HOSE BIB	W/	WITH
HGT.	HEIGHT	W.C.	WATER CLOSET
HVC	HEATING VENTILATION AIR CONDITIONING	WD	WOOD
		W/O	WITHOUT
		WT.	WEIGHT

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2022*

- 2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
- 2019 California Building Code (CBC), Part 2, Title 24 CCR
- (2018 International Building Code, Vol. 1 & 2, and 2016 California amendments)
- 2019 California Electrical Code (CEC), Part 3, Title 24 CCR
- (2014 National Electrical Code and 2016 California Amendments)
- 2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
- (2018 IFPMO Uniform Mechanical Code and 2016 California amendments)
- 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
- (2015 IFPMO Uniform Plumbing Code and 2016 California amendments)
- 2019 California Energy Code (CEC), Part 6, Title 24 CCR
- 2019 California Fire Code (CFC), Part 9, Title 24 CCR
- (2018 International Fire Code and 2016 California Amendments)
- 2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
- (2018 International Existing Building Code and 2016 California Amendments)
- 2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
- 2019 California Referenced Standards Code, Part 12, Title 24 CCR
- Title 19 CCR, Public Safety, State Fire Marshal Regulations
- 2013 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 Standard for the Installation of Sprinkler Systems (CA amended)	2016 Edition
NFPA 14 Standard for the Installation of Standpipe and Hose Systems	2013 Edition
NFPA 17 Standard for Dry Chemical Extinguishing Systems	2013 Edition
NFPA 17A Standard for Wet Chemical Extinguishing Systems	2013 Edition
NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection	2016 Edition
NFPA 22 Standard for Water Tanks for Private Fire Protection	2013 Edition
NFPA 24 Standard for the Installation of Private Fire Service Mains and Their Appurtenances	2016 Edition
NFPA 72 National Fire Alarm and Signaling Code (CA amended);	2016 Edition
NFPA 80 Standard for Fire Doors and Other Opening Protectives	2016 Edition
NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems	2015 Edition
UL 300 Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment	2005 (R2010)
UL 464 Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories	2003 Edition
UL 521 Standard for Heat Detectors for Fire Protective Signaling Systems	1999 Edition
UL 1971 Standard for Signaling Devices for the Hearing Impaired	2002 Edition
ICC 300 Standard for Bleachers, Folding and Telescopic Seating, and Grandstands	2012 Edition

For a complete list of applicable NFPA standards refer to 2016 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is February 25, 2020 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 20, 2020.

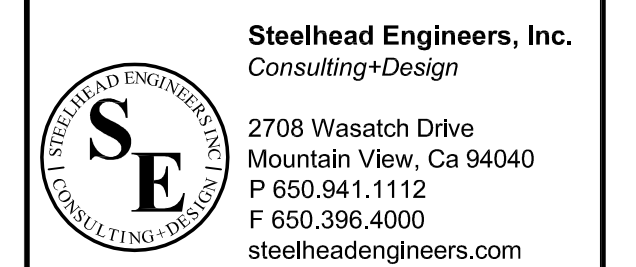
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SYMBOLS

	DETAIL
	GRID LINE
	REVISION

LEGEND

	ROOF EDGE		SUMP WITH DRAINS
	GUTTER WITH DOWNSPOUT		DRAIN
	PARAPET WALL		OVERFLOW
	EXISTING RIDGE/VALLEY LINE		DOWNSPOUT
	CRICKET LINE		SCUPPER OR OVERFLOW SCUPPER
	CONDUIT(S) PIPES		ANTENNA
	ON WOOD SLEEPERS		FLUE
	EXPANSION JOINT		PLUMBING VENT
	FAN UNIT		ELECTRICAL PENETRATION
	HATCH		GAS PENETRATION
	SKYLIGHT		ROOF MOUNTED SPEAKER/ALARM
	SIMILAR		J-VENT
	SMOKE HATCH		ABANDONED PENETRATION
	VENT UNIT		HOT STACK
	DUCT PENETRATION		ELEVATION
	GRAVITY VENT		SLOPE (DOWNWARD)
	SLEEPER, HEAVY AND FLOATING		ROOF CROSS-SECTION INDICATOR
	ROOF DRAIN LEADER EXIT		DUCTWORK
	HVAC UNIT		BOX
	PLATFORM		LADDER
	GANGED PENETRATION		EXISTING COMPONENT
	SECURITY CAMERA		ATTIC VENT



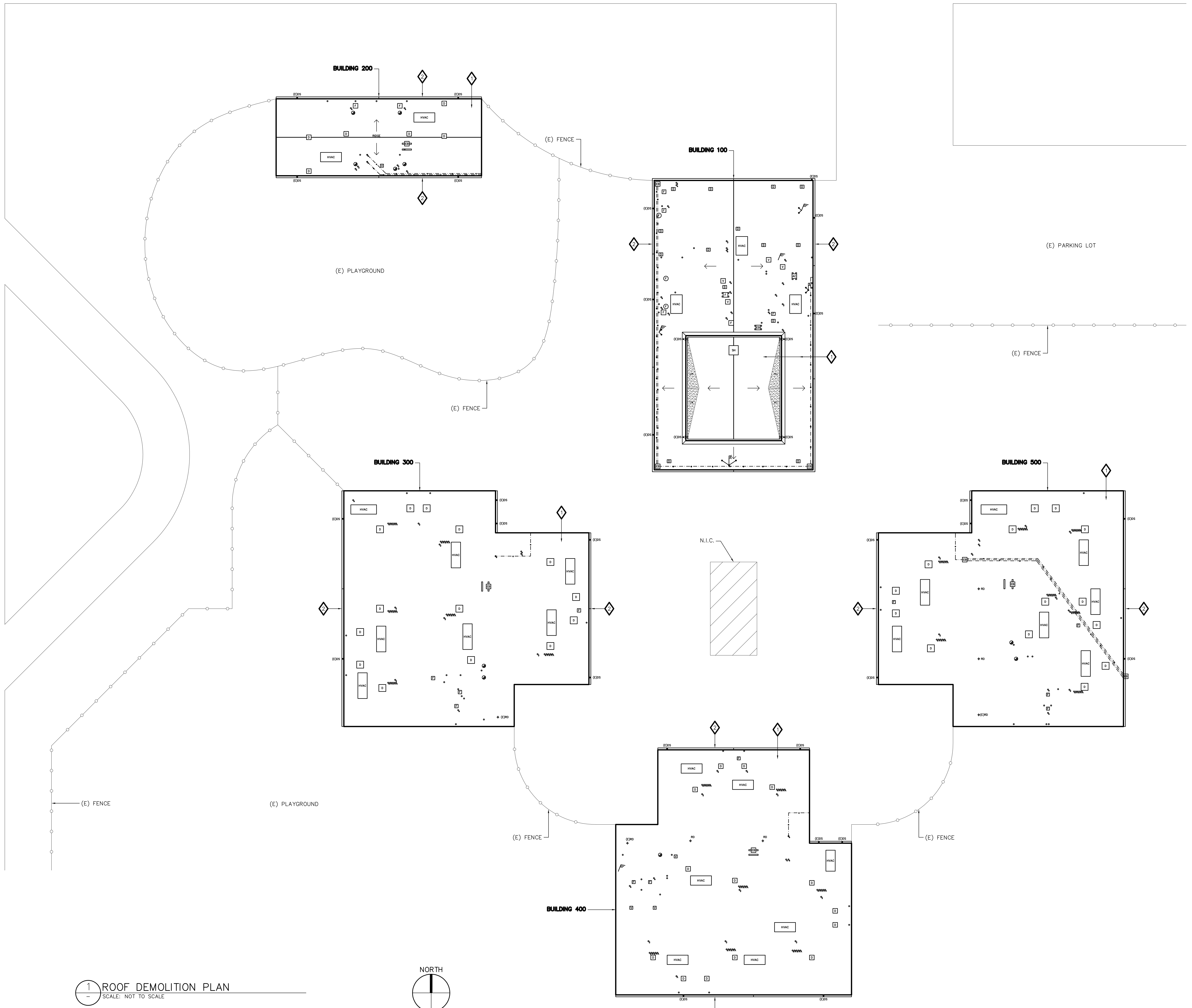
This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT	OWNER
ROOF REPLACEMENT - BUILDINGS 100 TO 500 NORTHWOOD ELEMENTARY SCHOOL 2760 EAST TRIMBLE ROAD SAN JOSE, CALIFORNIA	BERRYESSA UNION SCHOOL DISTRICT 1376 PIEDMONT ROAD SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY
PROJECT NO.	21043		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY			
DATE	15 OCT 2021		
DRAWING SCALE	NO SCALE		
SHEET TITLE			
TITLE SHEET, GENERAL NOTES, ABBREVIATIONS AND LEGEND			
DRAWING NO.			
A1.0			
OF			

EAST TRIMBLE ROAD

LAKEWOOD DRIVE



LEGEND

□ SCOPE OF WORK

▨ NOT IN CONTRACT

DEMOLITION KEY NOTES:

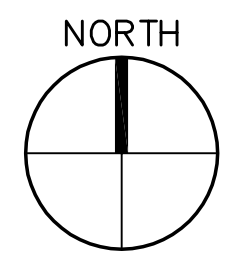
◇ REMOVE (E) BUILT-UP ROOF

◇ REMOVE (E) GUTTERS

NOTE

(1) PORTABLE BUILDINGS AND OTHER SITE FEATURES ARE NOT SHOWN ON THE SITE PLAN.

1 ROOF DEMOLITION PLAN
SCALE: NOT TO SCALE



Steelhead Engineers, Inc.
Consulting+Design
2708 Wasatch Drive
Mountain View, Ca 94040
P 650.944.1112
F 650.396.4000
steelheadengineers.com

This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT

ROOF REPLACEMENT-BUILDINGS 100 TO 500
NORTHWOOD ELEMENTARY SCHOOL
2760 EAST TRIMBLE ROAD
SAN JOSE, CALIFORNIA

OWNER

BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY
PROJECT NO.	21043		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY			
DATE	15 OCT 2021		
DRAWING SCALE	AS NOTED		

SHEET TITLE

ROOF DEMOLITION PLAN

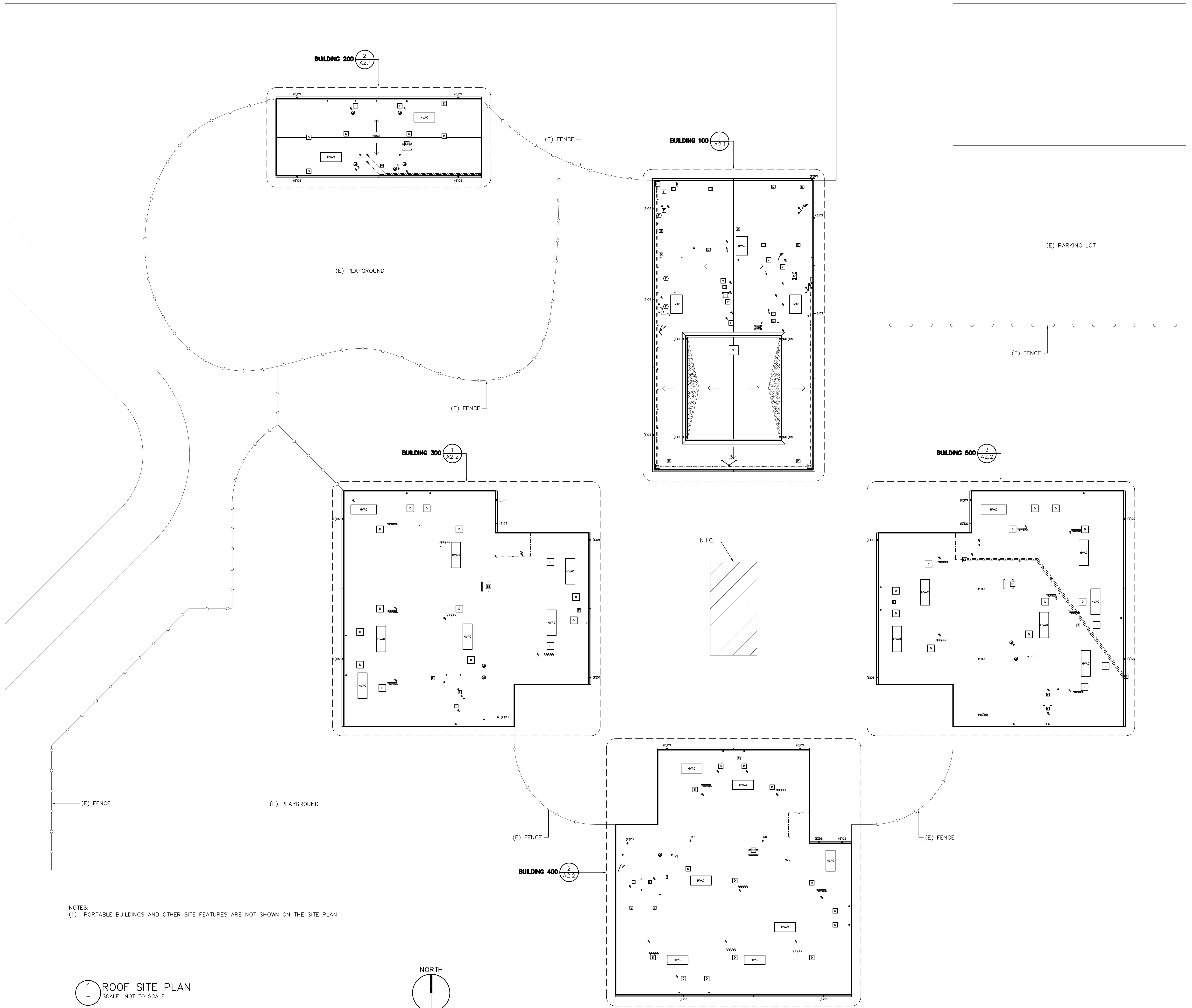
DRAWING NO.

AD2.0

OF

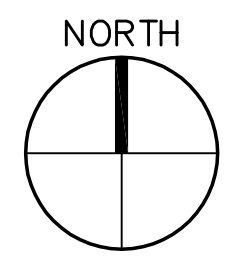
EAST TRIMBLE ROAD

LAKEWOOD DRIVE



NOTES:
(1) PORTABLE BUILDINGS AND OTHER SITE FEATURES ARE NOT SHOWN ON THE SITE PLAN.

1 ROOF SITE PLAN
SCALE: NOT TO SCALE



Steelhead Engineers, Inc.
Consulting+Design
2708 Wasatch Drive
Mountain View, Ca 94040
P 650.944.1112
F 650.396.4000
steelheadengineers.com

This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT
ROOF REPLACEMENT-BUILDINGS 100 TO 500
NORTHWOOD ELEMENTARY SCHOOL
2760 EAST TRIMBLE ROAD
SAN JOSE, CALIFORNIA

OWNER
BERRYESSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY
PROJECT NO.	21043		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY			
DATE	15 OCT 2021		
DRAWING SCALE	AS NOTED		

SHEET TITLE
ROOF SITE PLAN

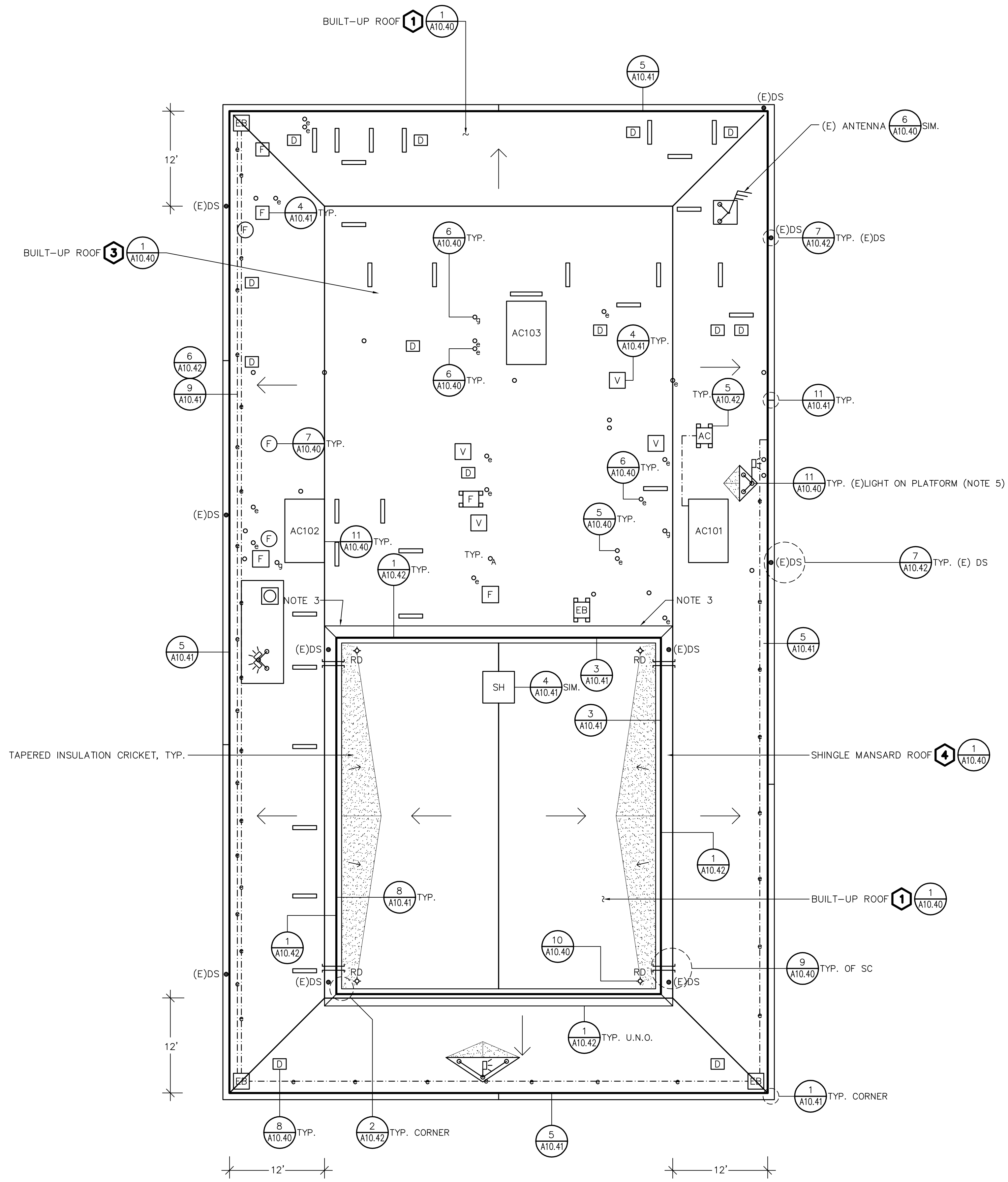
DRAWING NO.
A2.0

OF

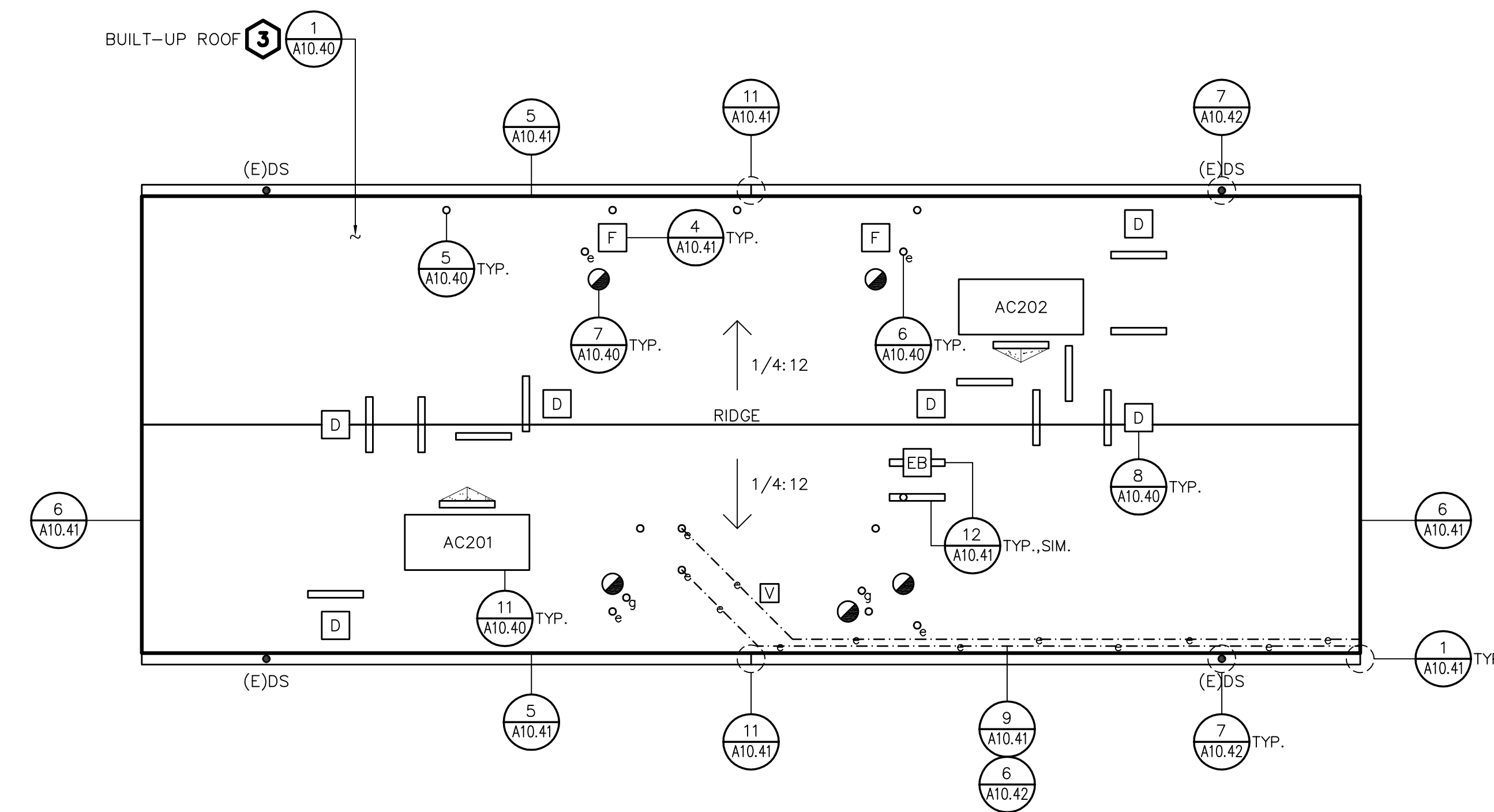
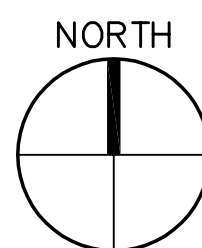
- NOTES:
 (1) REMOVE AND REINSTALL SHEET METAL AS REQUIRED TO INSTALL EDGE METAL. SET COVER FASTENERS IN SEALANT.
 (2) INSTALL GSM DIVERTER AT MANSARD/DUCT INTERFACE (2 LOCATIONS).
 (3) REFER TO DETAIL 11/A10.41 FOR DUCT CURB FLASHING.



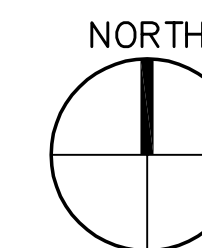
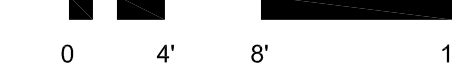
This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright © 2021



1 ROOF PLAN-BUILDING 100
 SCALE: 1/8"=1'-0"



2 ROOF PLAN-BUILDING 200
 SCALE: 1/8"=1'-0"



PROJECT
 ROOF REPLACEMENT-BUILDINGS 100 TO 500
 NORTHWOOD ELEMENTARY SCHOOL
 2760 EAST TRIMBLE ROAD
 SAN JOSE, CALIFORNIA

OWNER
 BERRYESSA UNION SCHOOL DISTRICT
 1376 PIEDMONT ROAD
 SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
3/16/22	REVIEW SET	EY	
PROJECT NO.	21043		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY			
DATE	15 OCT 2021		
DRAWING SCALE	AS NOTED		

SHEET TITLE
 ROOF PLANS
 BUILDINGS 100
 AND 200

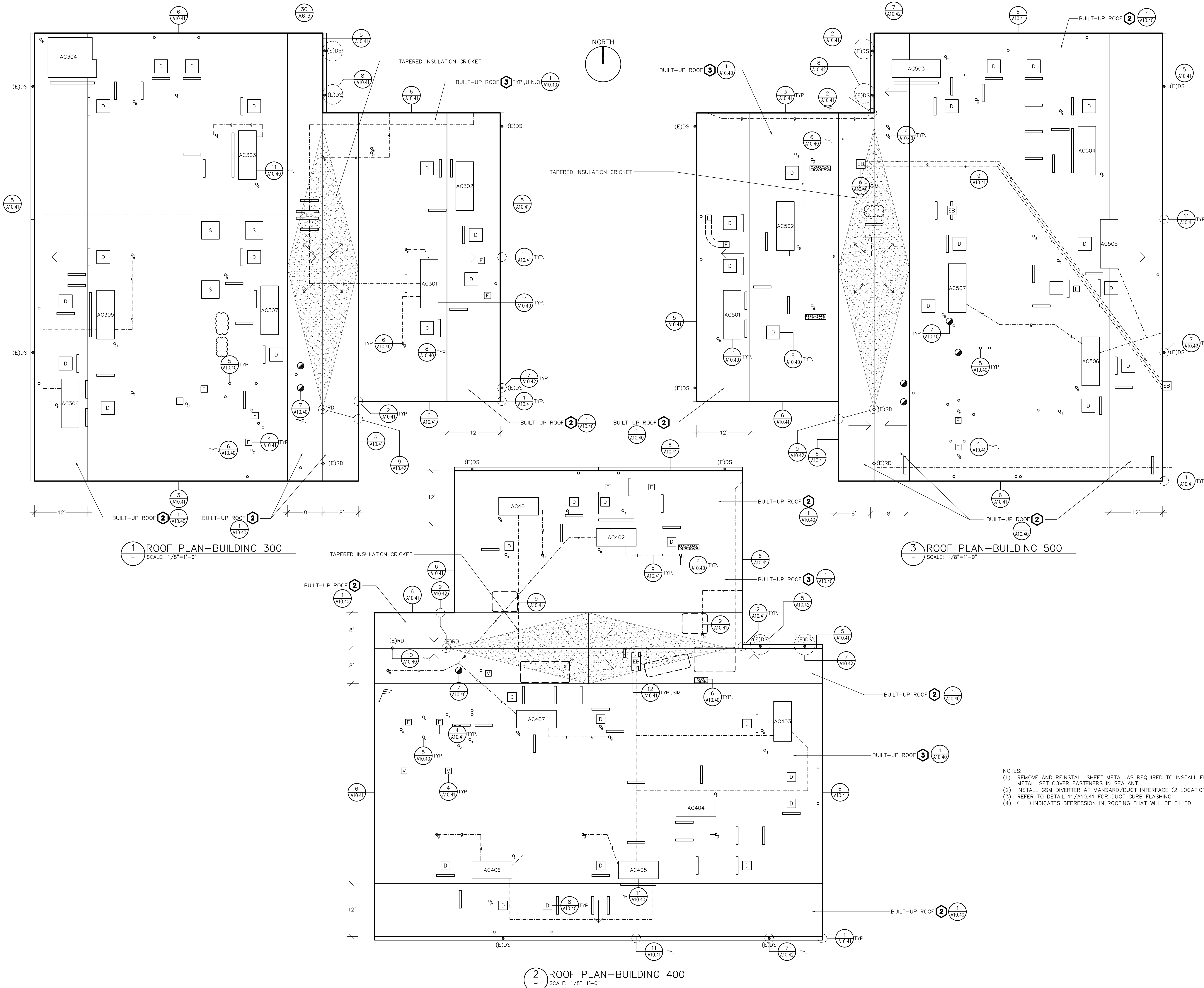
DRAWING NO.
 A2.1
 OF



This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright © 2021

PROJECT
ROOF REPLACEMENT-BUILDINGS 100 TO 500
 NORTHWOOD ELEMENTARY SCHOOL
 2760 EAST TRIMBLE ROAD
 SAN JOSE, CALIFORNIA

OWNER
 BERRYSSA UNION SCHOOL DISTRICT
 1376 PIEDMONT ROAD
 SAN JOSE, CALIFORNIA



1 ROOF PLAN-BUILDING 300
 SCALE: 1/8"=1'-0"

3 ROOF PLAN-BUILDING 500
 SCALE: 1/8"=1'-0"

2 ROOF PLAN-BUILDING 400
 SCALE: 1/8"=1'-0"

- NOTES:
 (1) REMOVE AND REINSTALL SHEET METAL AS REQUIRED TO INSTALL EDGE METAL. SET COVER FASTENERS IN SEALANT.
 (2) INSTALL GSM DIVERTER AT MANSARD/DUCT INTERFACE (2 LOCATIONS).
 (3) REFER TO DETAIL 11/A10.41 FOR DUCT CURB FLASHING.
 (4) INDICATES DEPRESSION IN ROOFING THAT WILL BE FILLED.

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY

PROJECT NO. **21043**

CADD FILE

DESIGNED BY **AEB**

DRAWN BY **EY**

CHECKED BY

DATE **15 OCT 2021**

DRAWING SCALE **AS NOTED**

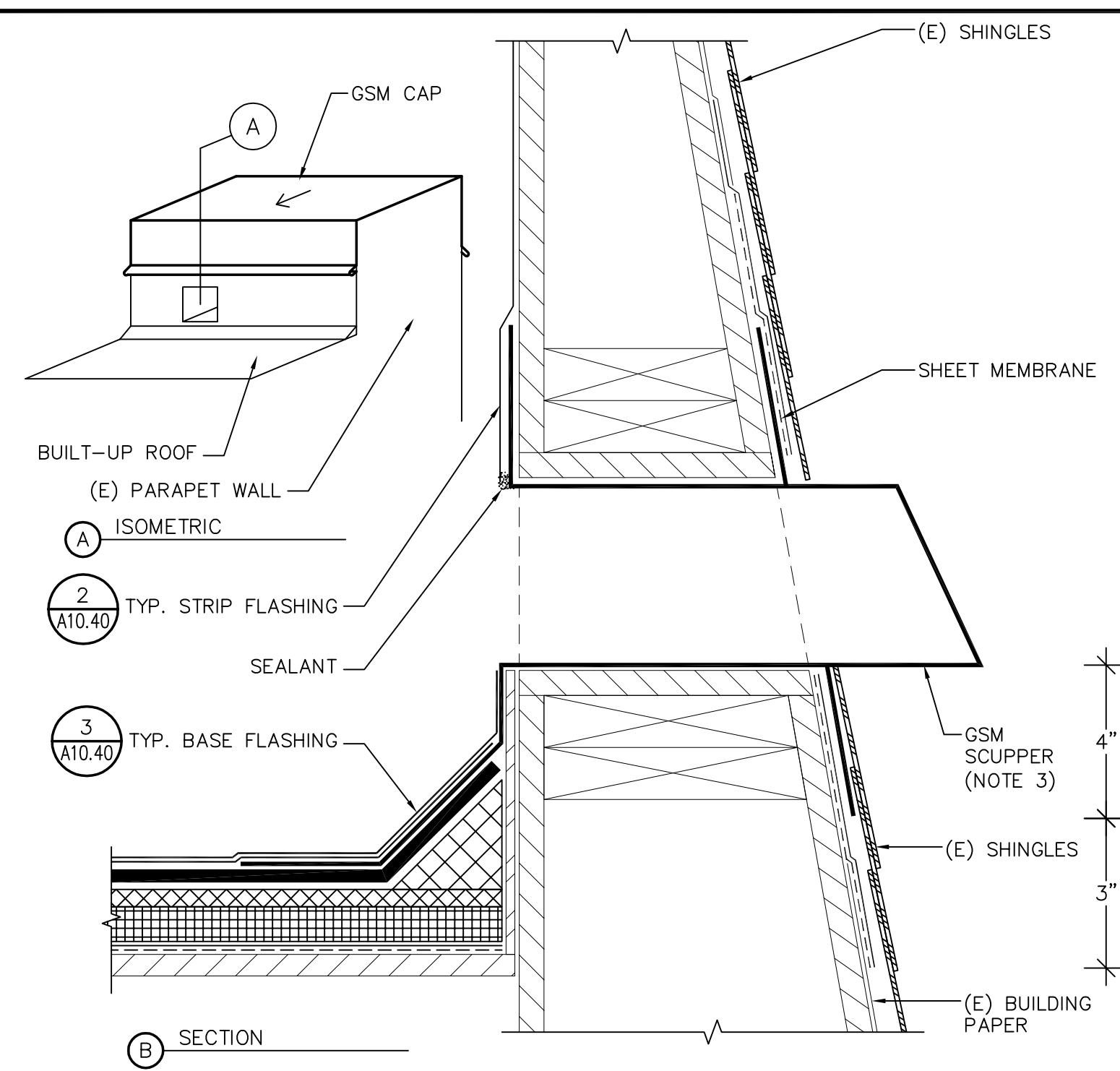
SHEET TITLE

ROOF PLANS BUILDINGS 300, 400 AND 500

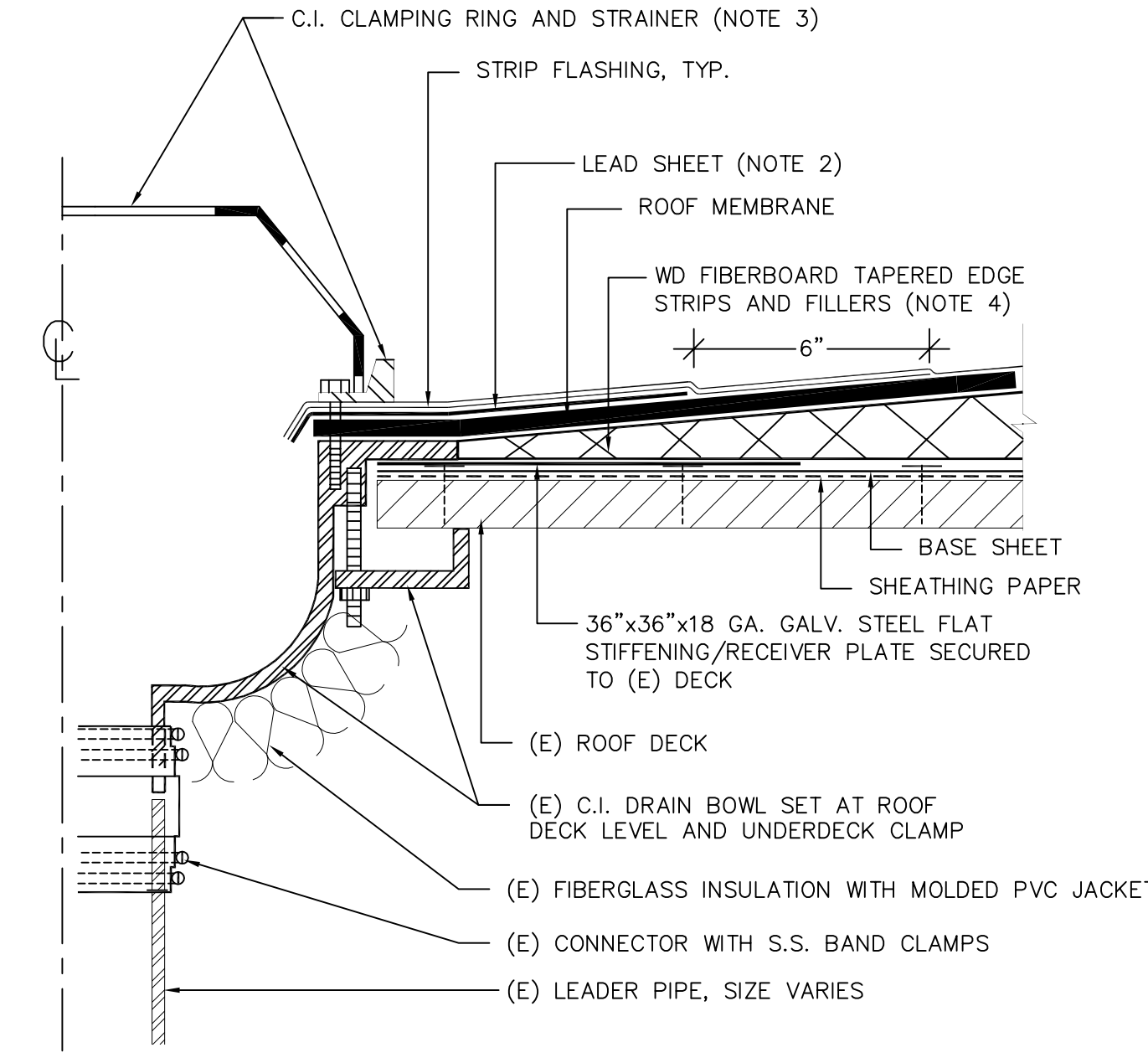
DRAWING NO.

A2.2

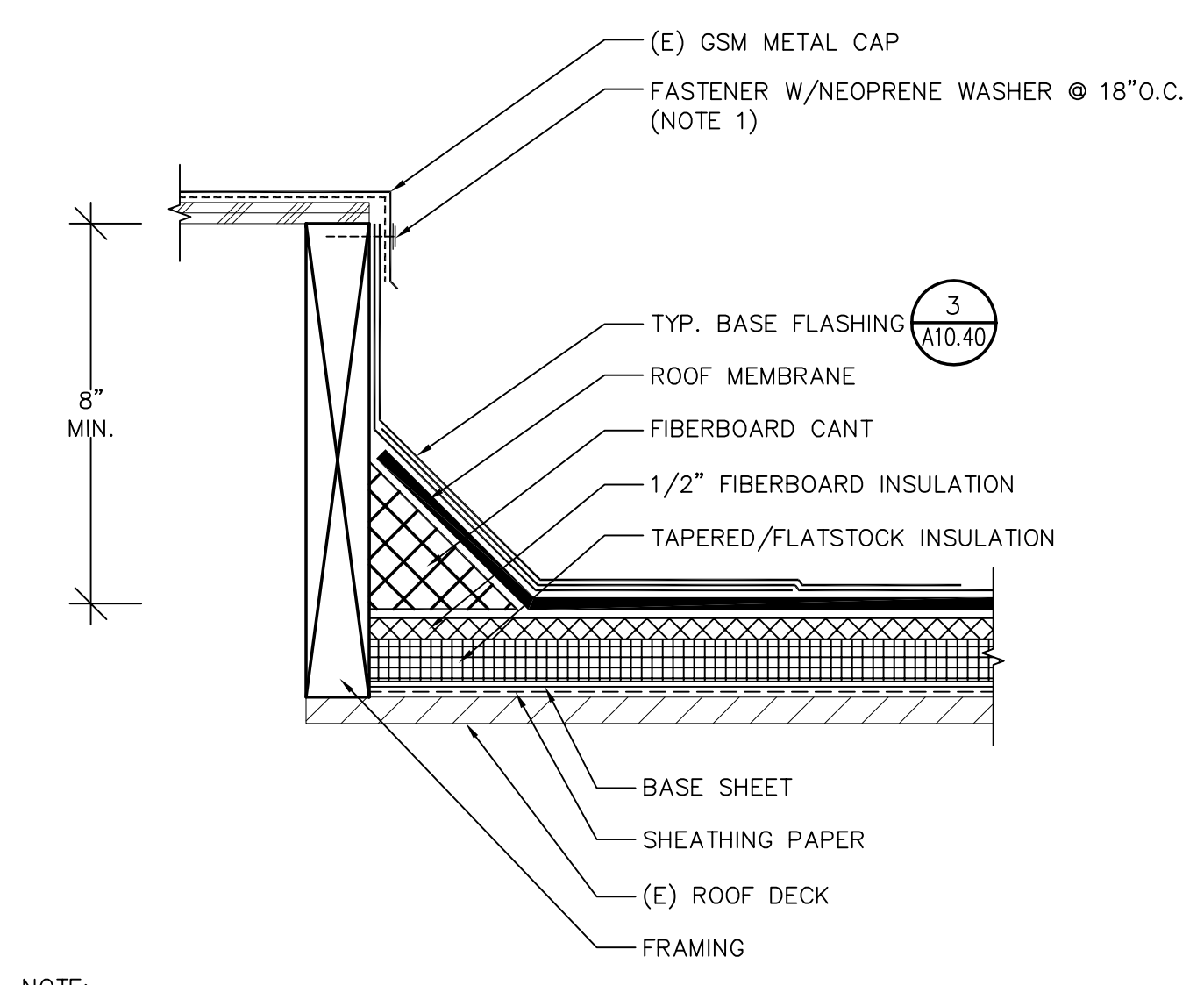
OF



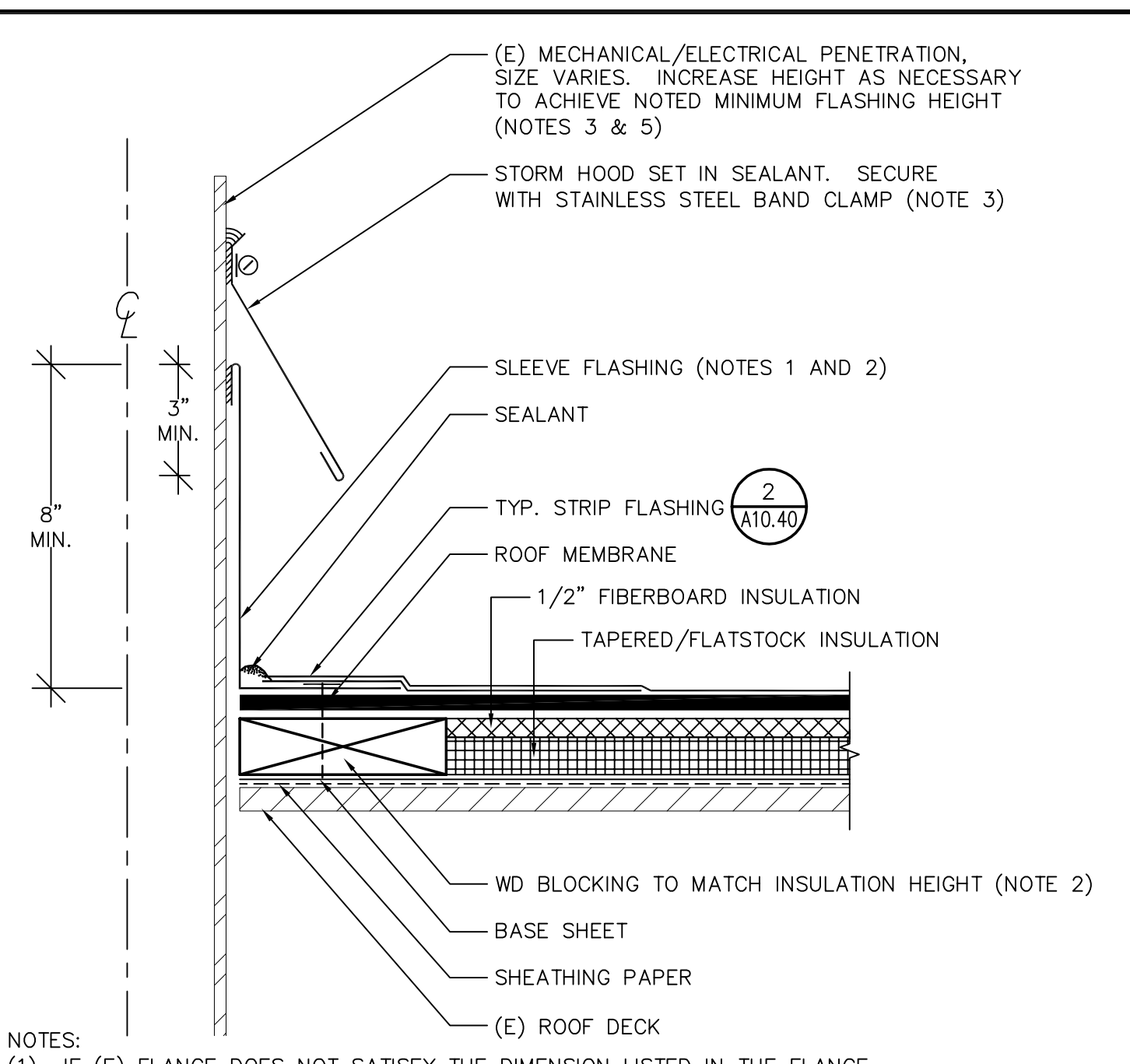
9 OVERFLOW SCUPPER
A10.40 SCALE: NOT TO SCALE



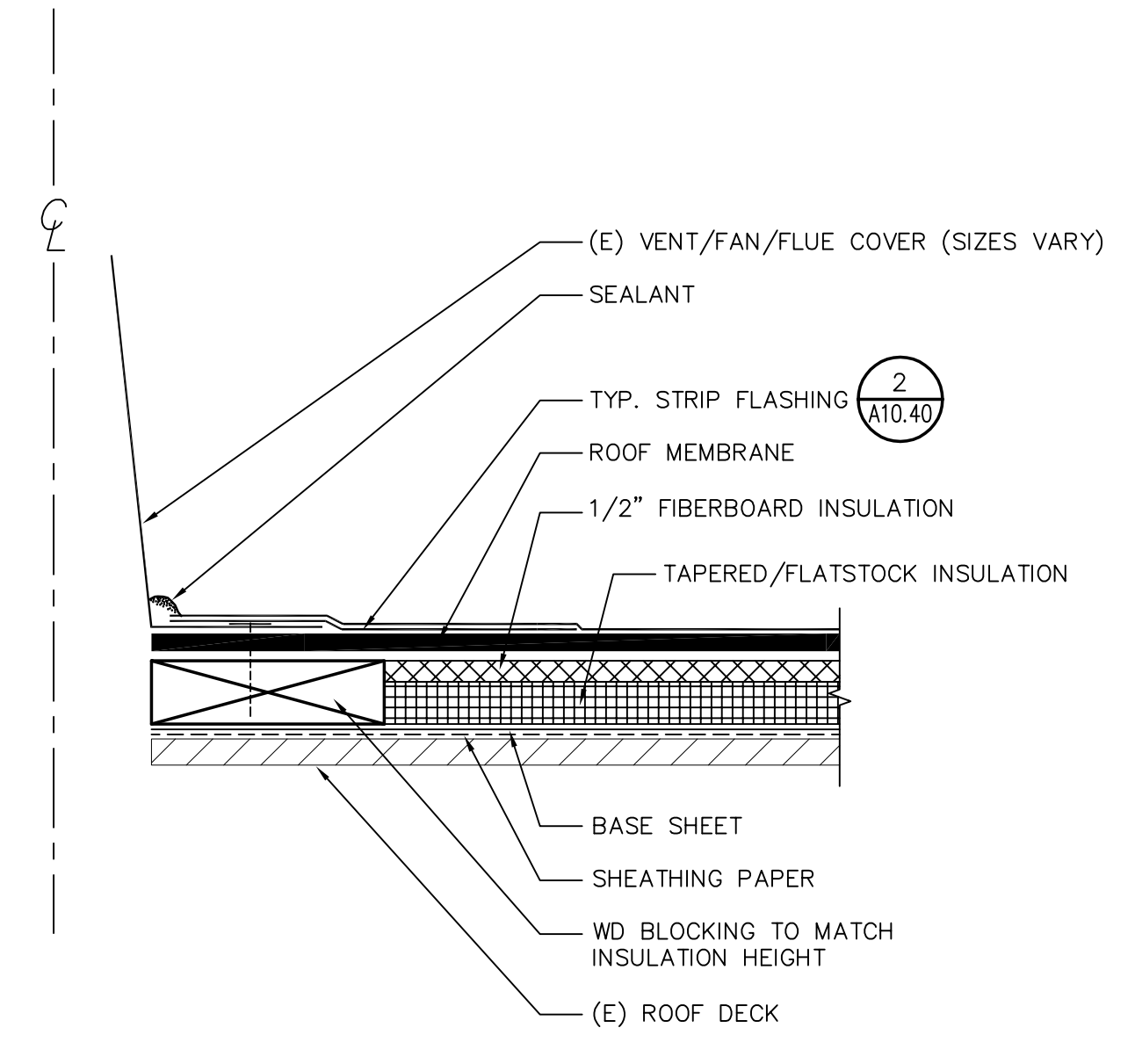
10 TYPICAL ROOF DRAIN
A10.40 SCALE: NOT TO SCALE



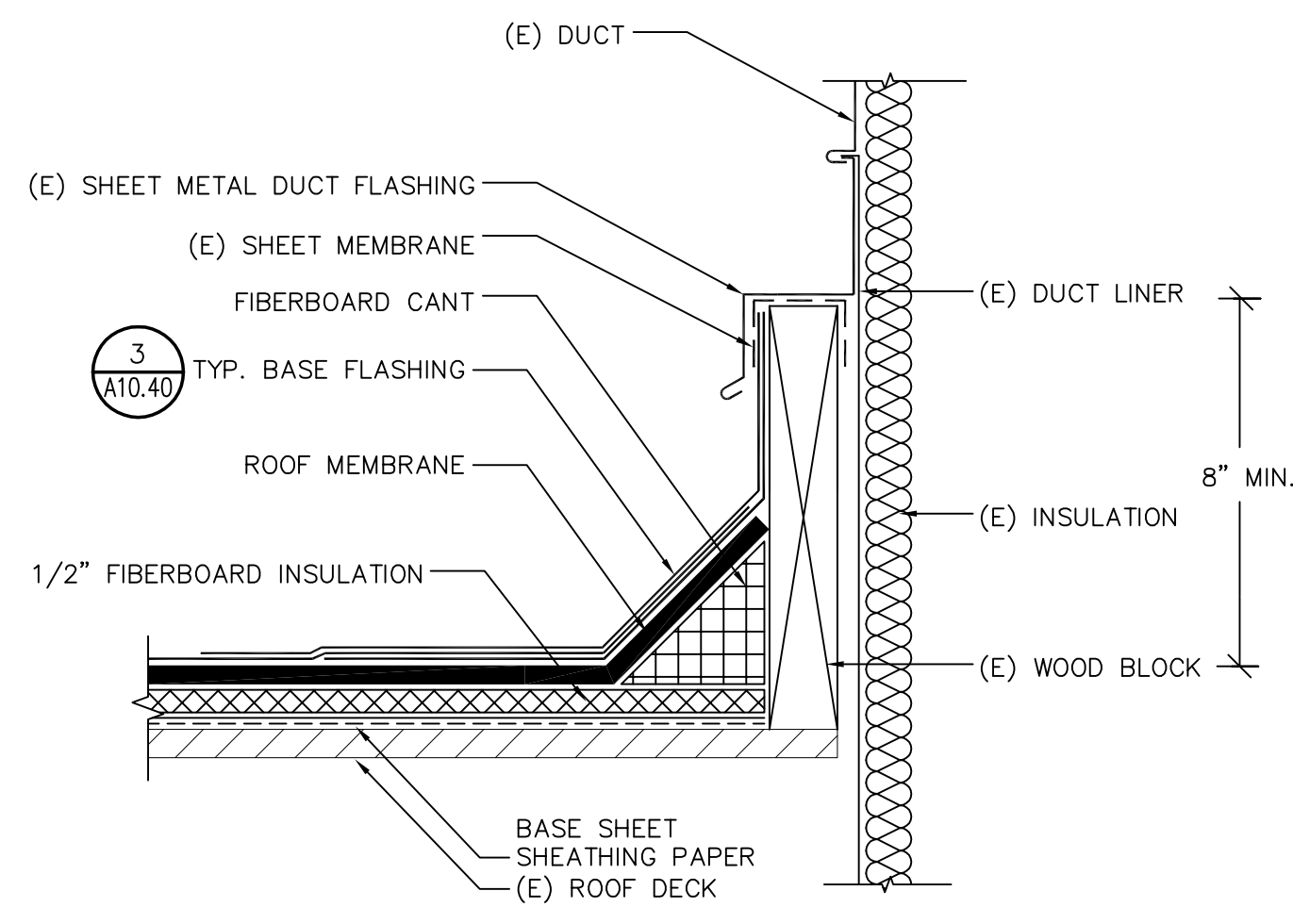
11 MECHANICAL UNIT PLATFORM
A10.40 SCALE: NOT TO SCALE



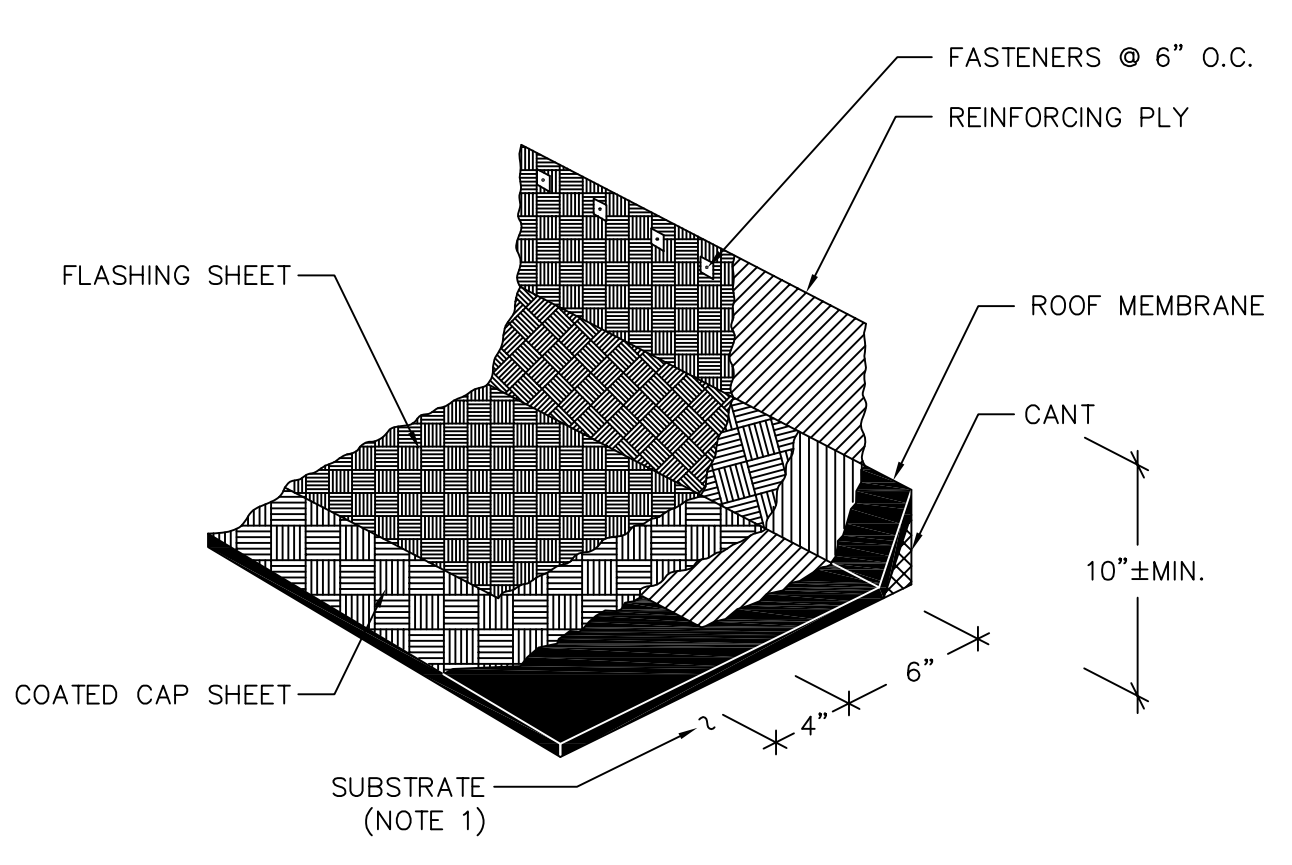
6 ELECTRICAL/MECHANICAL PIPE
A10.40 SCALE: NOT TO SCALE



7 FLANGED UNIT
A10.40 SCALE: NOT TO SCALE



8 DUCT CURB
A10.40 SCALE: NOT TO SCALE



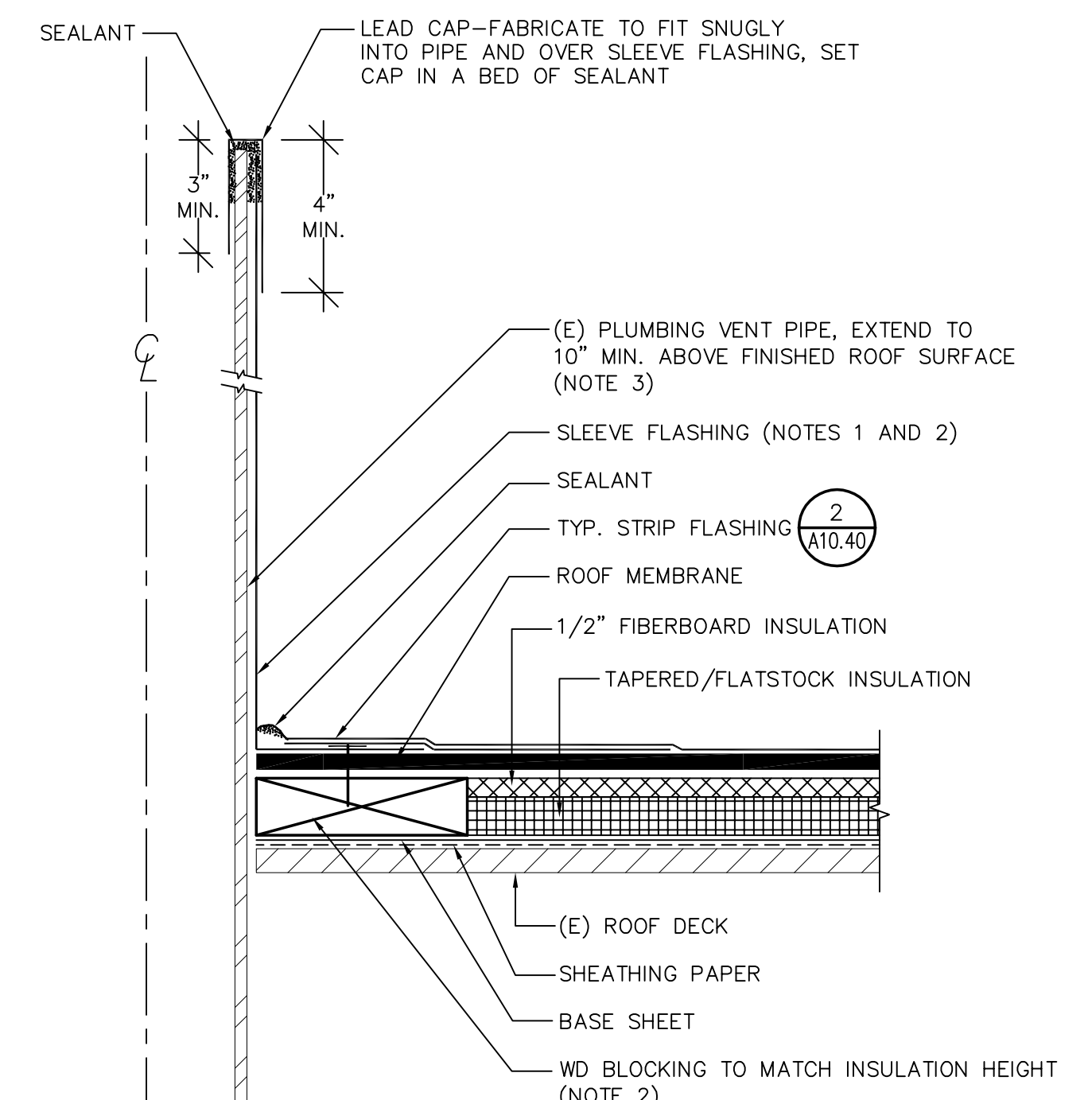
3 TYPICAL BASE FLASHING
A10.40 SCALE: NOT TO SCALE

FASTENING SCHEDULE

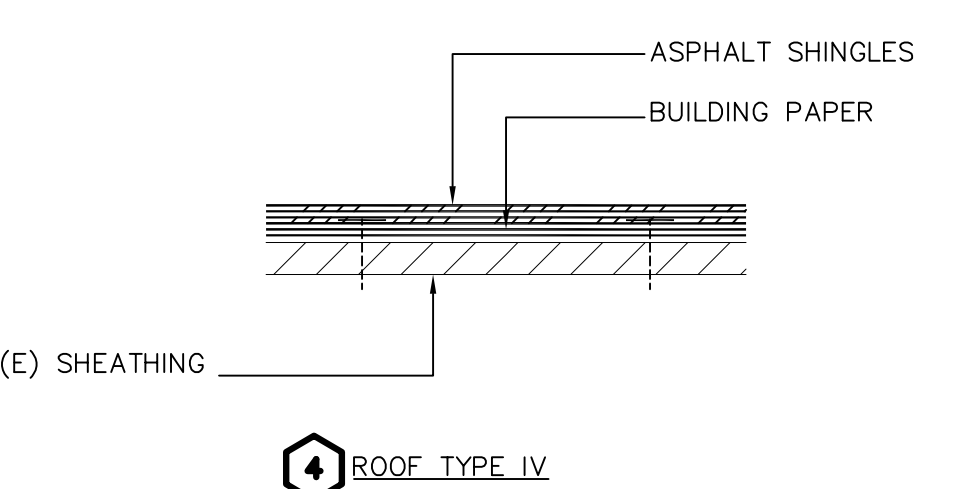
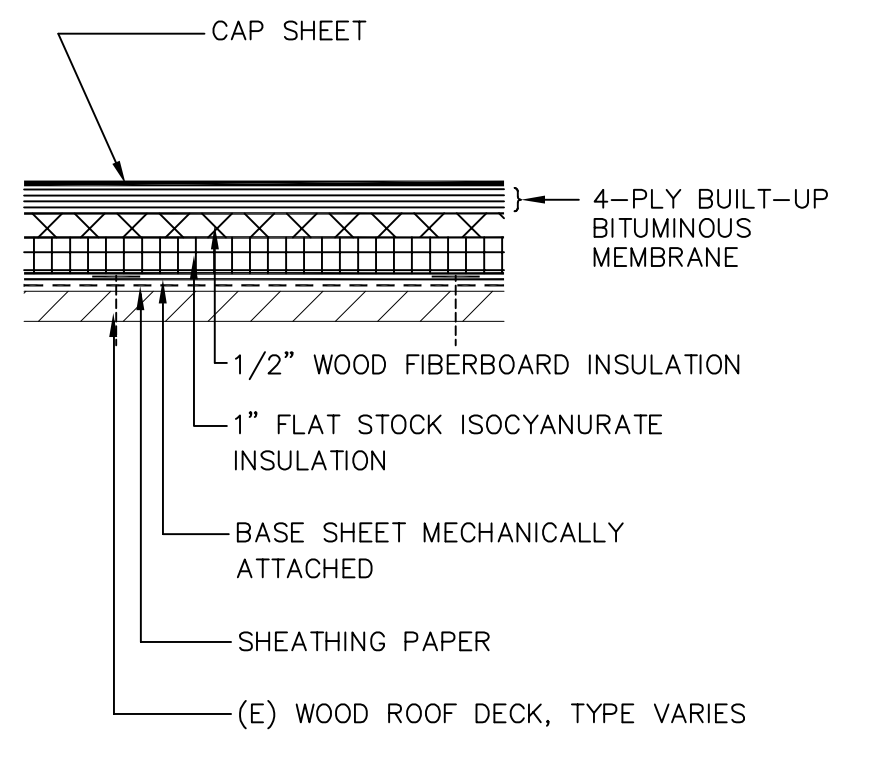
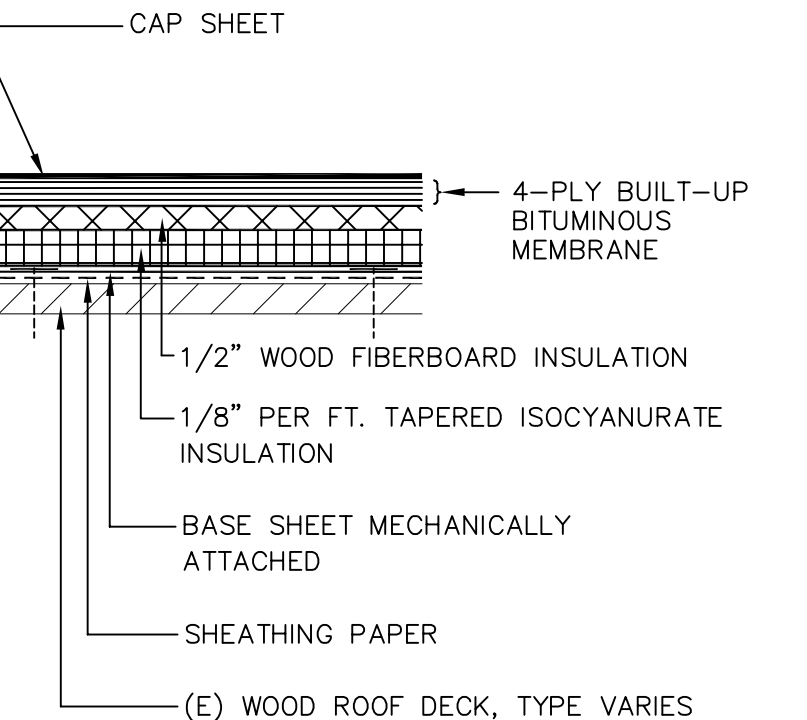
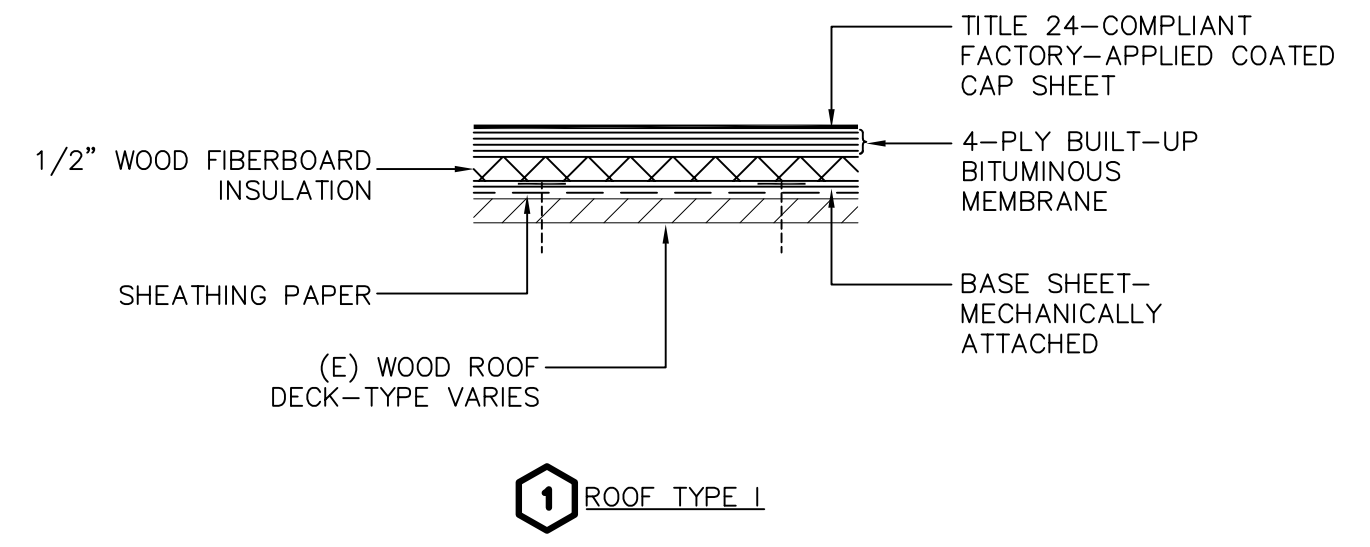
ITEM	FASTENER & SPACING	COMMENTS
BLOCKING/ROOF DECK	16d @ 12" o.c.	NOTE 2
BLOCKING/METAL ROOF DECK	SCREWS @ 12" o.c.	-
BLOCKING/BLOCKING (PERPENDICULAR)	A34 @ 12" o.c.	NOTE 1
BLOCKING/BLOCKING (PARALLEL)	16d @ 12" o.c.	NOTE 2
BLOCKING/BLOCKING (STACKED)	TP35 @ 16" o.c.	NOTE 1
BLOCKING/STEEL BEAM	1/2" @ BOLTS @ 4' o.c.	-
BLOCKING/CONCRETE WALL	CONC. FASTENERS @ 16" o.c.	NOTE 2
CHAMFERED BLOCK/BLOCKING	16d @ 12" o.c.	NOTE 2
ROOF SHEATHING (PLYWOOD)	NOTE 4	NOTE 4
ROOF SHEATHING (DECKING)	NOTE 4	NOTE 4
FASCIA/FASCIA NAILER	16d @ 12" o.c.	NOTE 2
FASCIA/RAFTER END	(2) 16d PER RAFTER	NOTE 2

NOTES:
 (1) FOR A34 AND TP 35 PLATES, USE SIMPSON N8 NAILS OR #8 X 1" WOOD SCREWS.
 (2) USE FULL LENGTH COMMON WIRE NAILS.
 (3) REFER TO PROJECT SPECIFICATIONS FOR DETAILED MATERIAL AND WORKMANSHIP REQUIREMENTS.
 (4) REFER TO STRUCTURAL DRAWINGS FOR ROOF DECK REPLACEMENT.

4 TYPICAL FASTENER SCHEDULE
A10.40 SCALE: NOT TO SCALE

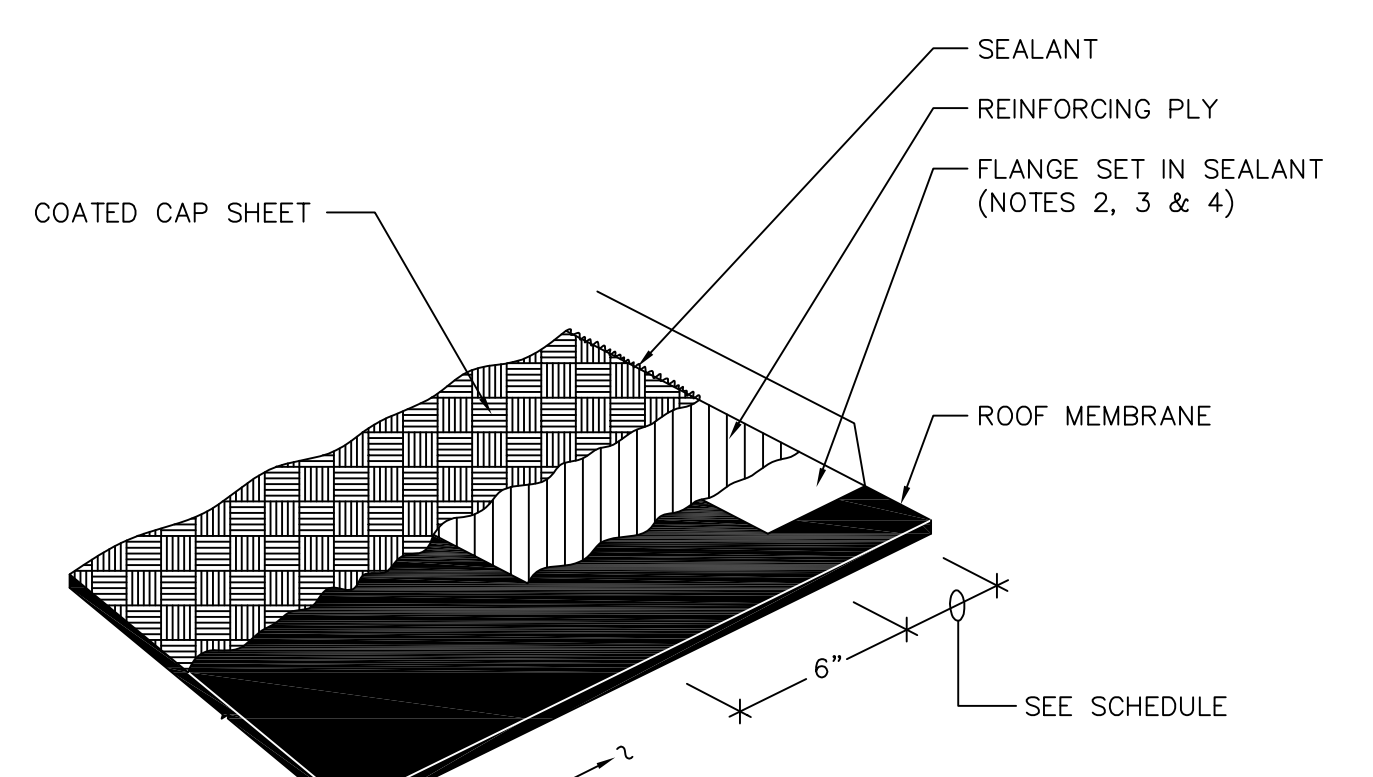


5 VENT PIPE
A10.40 SCALE: NOT TO SCALE



NOTES:
 (1) ROOF TYPES I - III ARE CLASS A FIRE RATED (UL TGFU.RB06).
 (2) ROOF TYPE IV IS CLASS A FIRE RATED (UL TFWZ.R4299 AND TGDY.R21900).

1 ROOF ASSEMBLY
A10.40 SCALE: NOT TO SCALE



2 TYPICAL STRIP FLASHING
A10.40 SCALE: NOT TO SCALE

Steelhead Engineers, Inc.
 Consulting+Design
 2708 Wasatch Drive
 Mountain View, Ca 94040
 P 650.944.1112
 F 650.396.4000
 steelheadengineers.com

This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT
ROOF REPLACEMENT-BUILDINGS 100 TO 500
NORTHWOOD ELEMENTARY SCHOOL
2760 EAST TRIMBLE ROAD
SAN JOSE, CALIFORNIA

OWNER
BERRYSSA UNION SCHOOL DISTRICT
1376 PIEDMONT ROAD
SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
3/16/22		REVIEW SET	EY

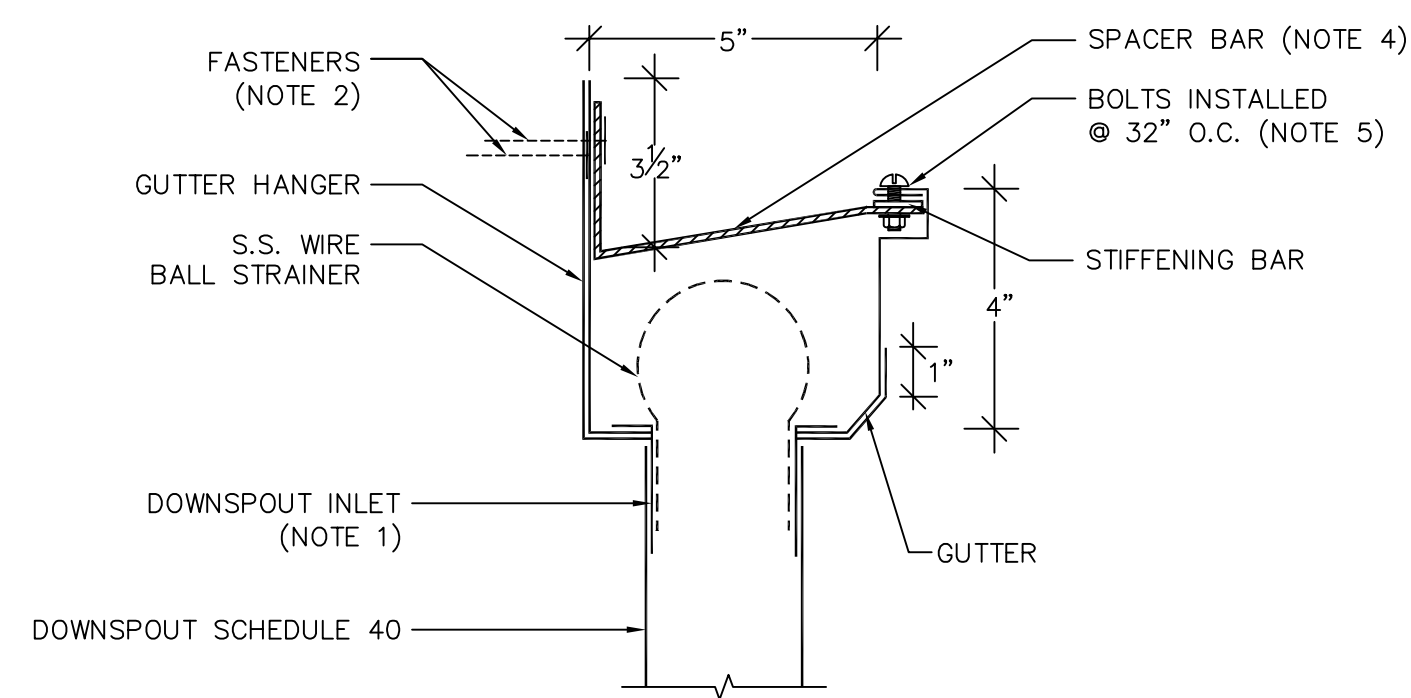
PROJECT NO. **21043**
 CADD FILE
 DESIGNED BY **AEB**
 DRAWN BY **EY**
 CHECKED BY
 DATE **15 OCT 2021**
 DRAWING SCALE **AS NOTED**

SHEET TITLE
ROOF REPLACEMENT DETAILS

DRAWING NO.

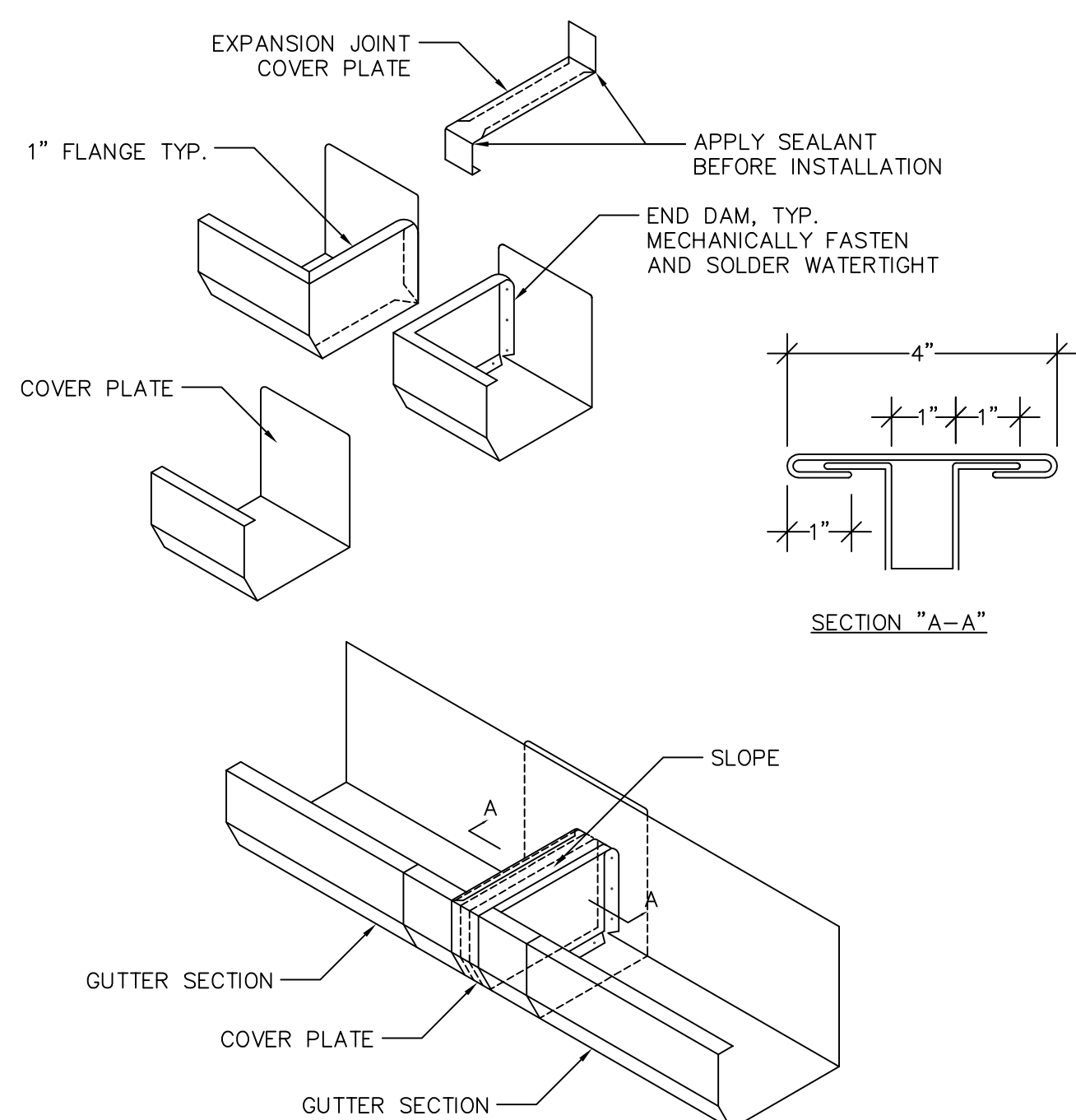
A10.40

OF



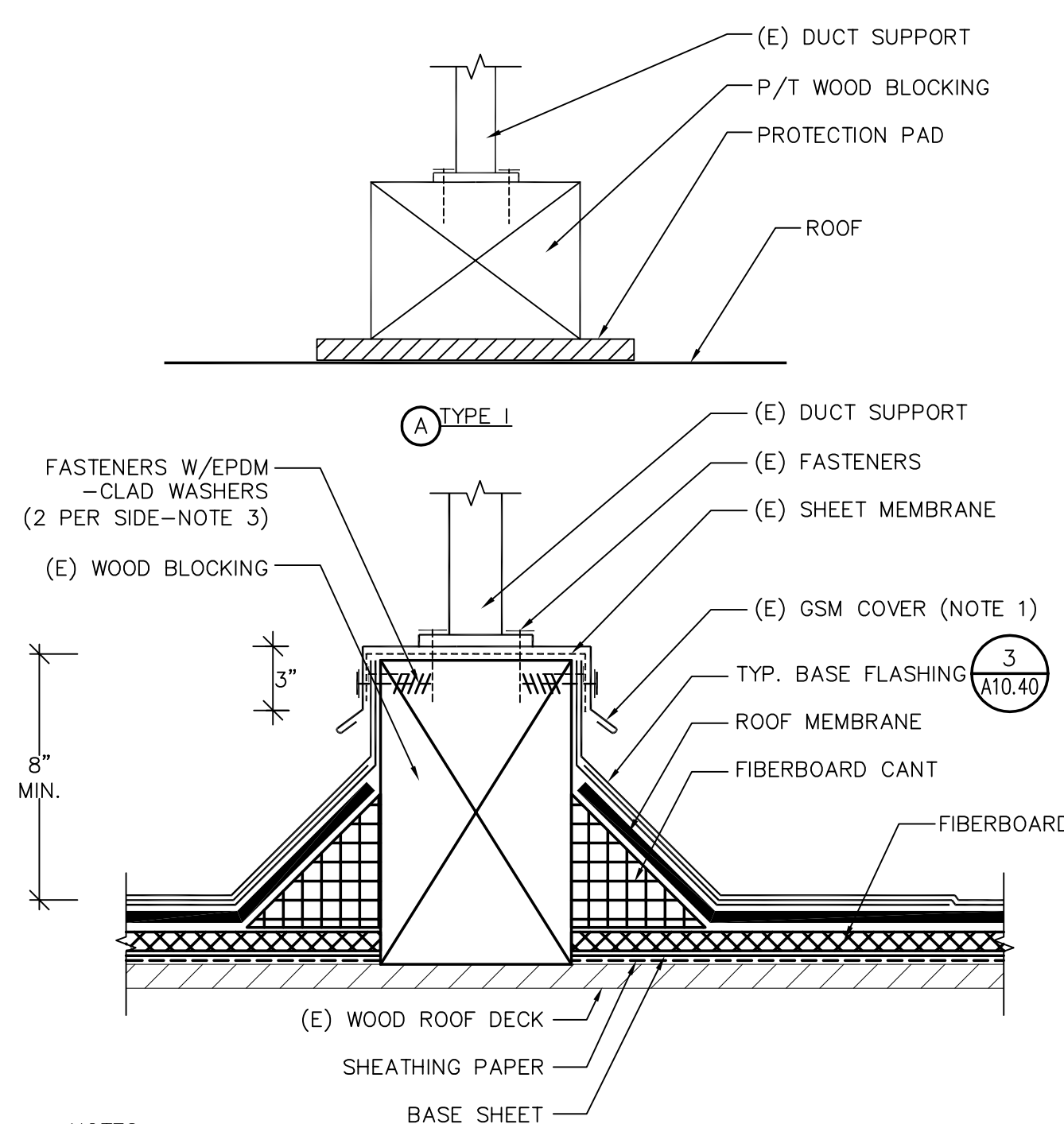
- NOTES:
 (1) DOWNSPOUT INLET SHALL FIT TIGHT INTO THE DOWNSPOUT; SOLDER TO GUTTER.
 (2) CONTRACTOR TO ENSURE FASTENERS ENGAGE FRAMING.
 (3) GUTTER SHALL HAVE A FINISHED SLOPE OF 1/16 IN. PER FT.
 (4) SHAPE SPACER BAR TO ACCOMMODATE EDGE METAL.
 (5) STAINLESS STEEL RIVETS MAY BE USED IN LIEU OF BOLTS.
 (6) REFER TO DETAIL 11/A10.41 FOR GUTTER EXPANSION JOINT.

10 GUTTER PROFILE
 A10.41 SCALE: NOT TO SCALE



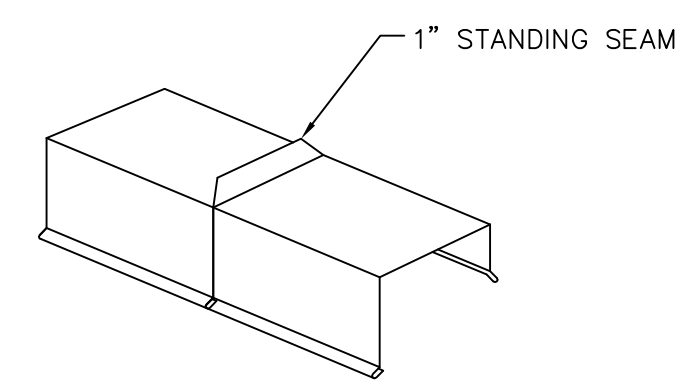
- NOTES:
 (1) INSTALL EXPANSION JOINT AT EVERY 40 FT. MAX.
 (2) SEE DETAIL 10/A10.41 FOR GUTTER PROFILE.

11 GUTTER EXPANSION JOINT
 A10.41 SCALE: NOT TO SCALE

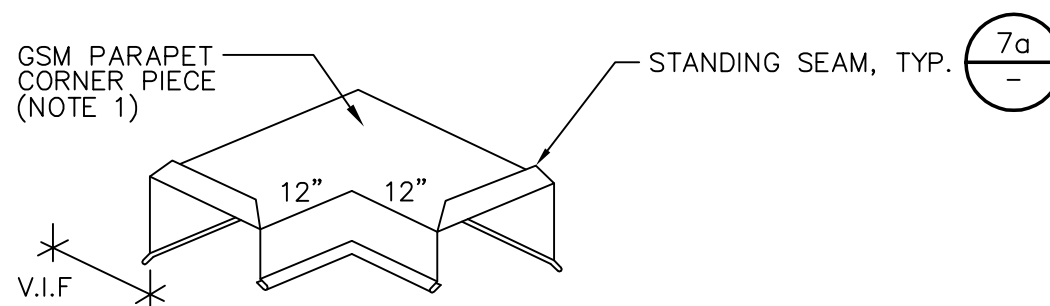


- NOTES:
 (1) LIFT (E) VERTICAL LEGS OF GSM COVER TO INSTALL BASE FLASHING.
 (2) INSTALL CRICKET IF ORIENTED PERPENDICULAR TO ROOF SLOPE.
 (3) REMOVE (E) FASTENERS.

12 DUCT SUPPORT CURB
 A10.41 SCALE: NOT TO SCALE



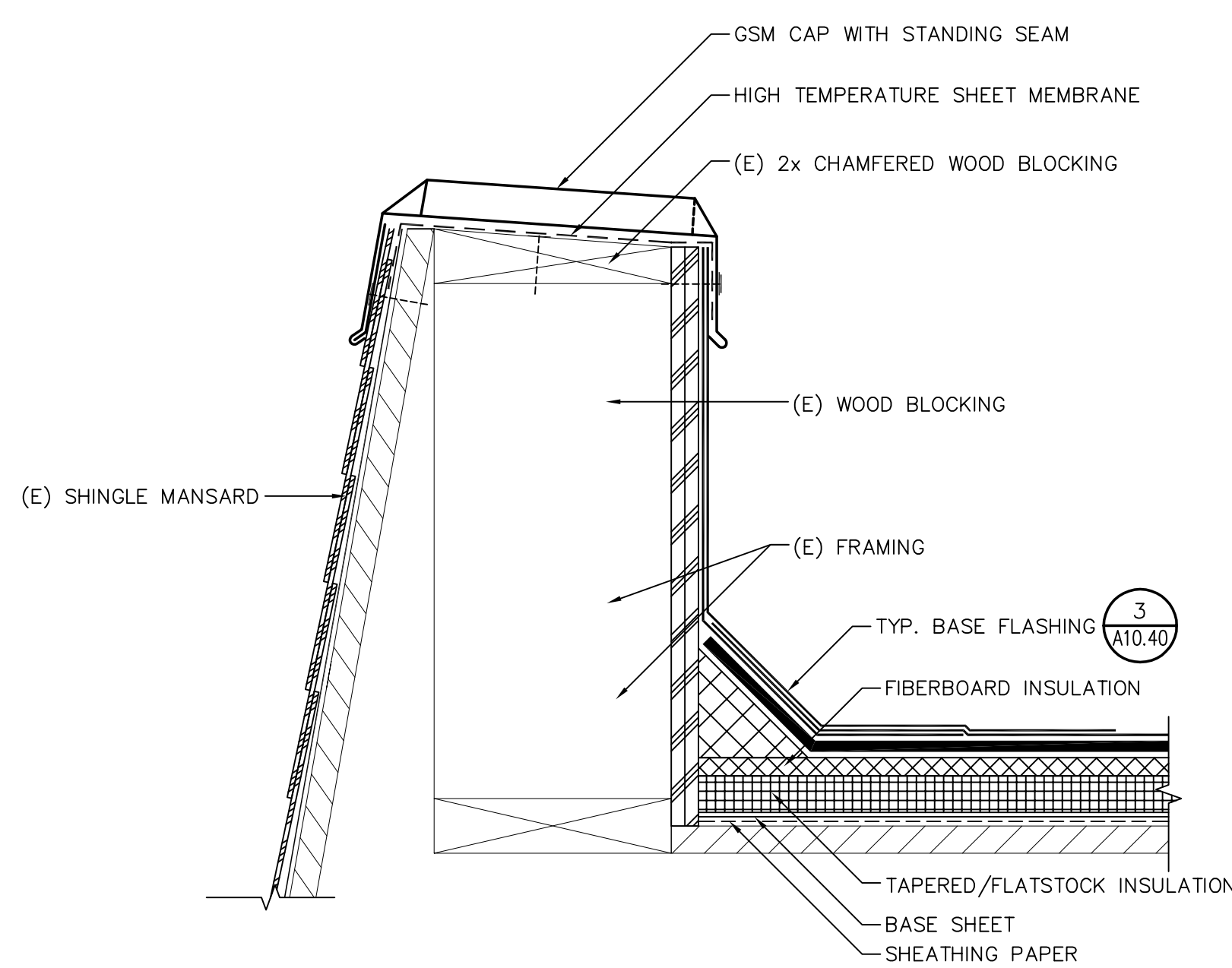
(A) TYPICAL JOINT



(B) TYPICAL CORNER

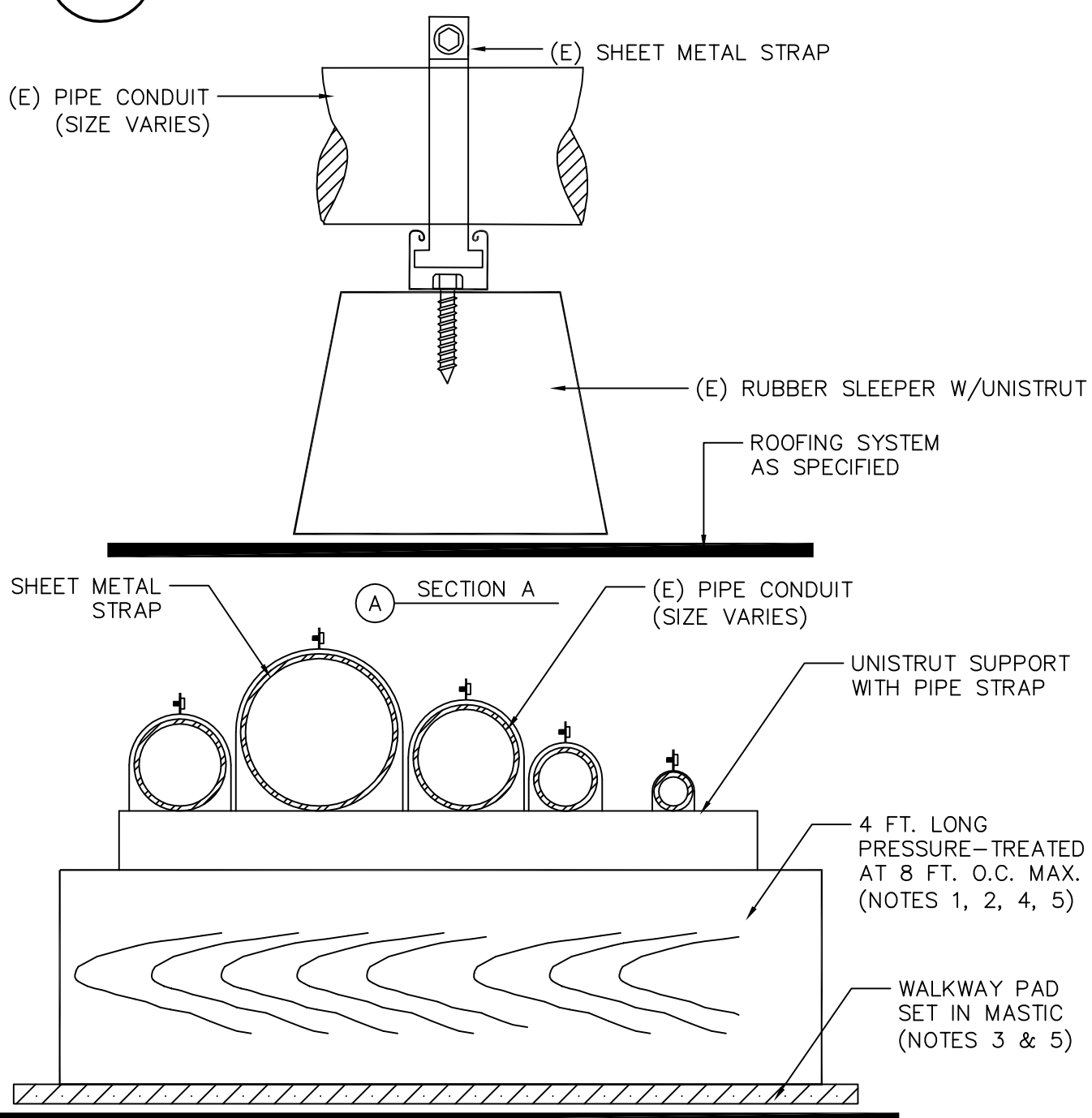
- NOTE:
 (1) SOLDER & MECHANICALLY FASTEN JOINTS WATERTIGHT.

7 COPING TRANSITIONS
 A10.41 SCALE: NOT TO SCALE



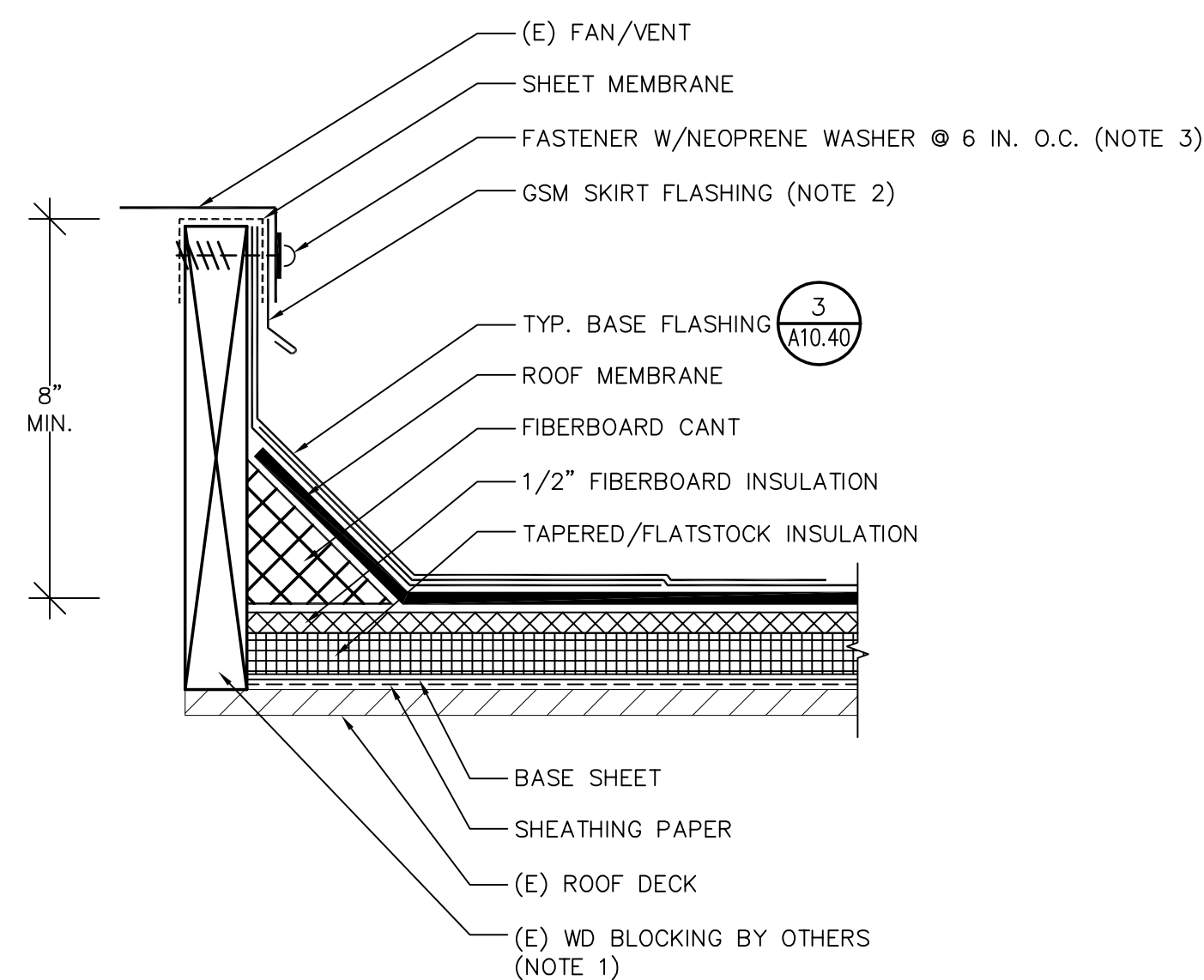
- NOTES:
 (1) REFER TO DETAIL 4/A10.40 FOR FASTENING SCHEDULE.
 (2) REFER TO DETAIL 7/A10.41 FOR TYPICAL JOINT AND TRANSITIONS.

8 ROOF EDGE-TYPE I
 A10.41 SCALE: NOT TO SCALE



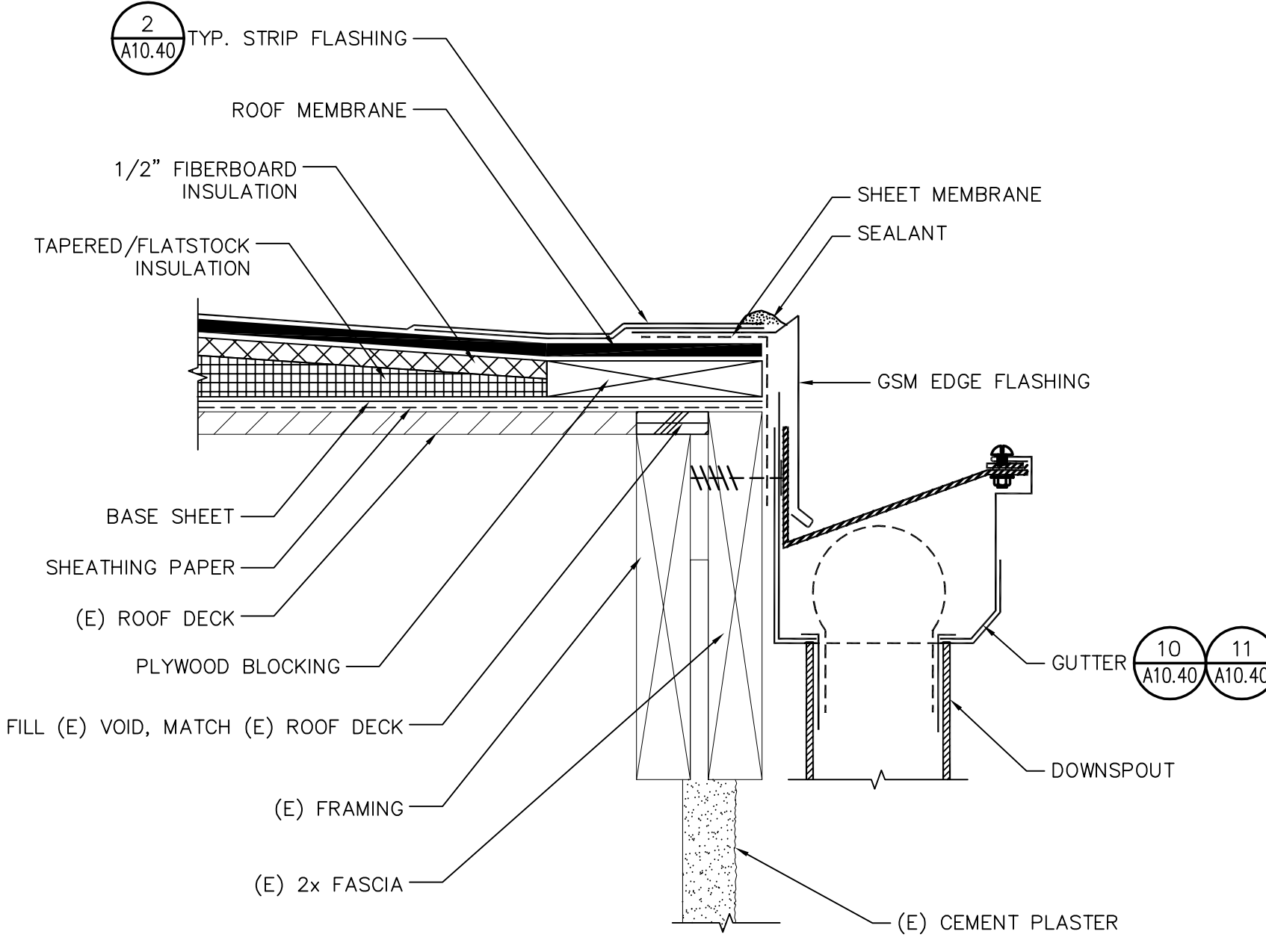
- NOTES:
 (1) TREAT CUT ENDS OF BLOCKING WITH PRESERVATIVE.
 (2) PROVIDE SLEEPER WHERE CONDUIT CHANGES DIRECTION.
 (3) SIZE PAD 2 IN. GREATER IN LENGTH AND WIDTH THAN BLOCKING.
 (4) SIZE SLEEPER TO ACCOMMODATE PIE(S)/CONDUIT(S). MINIMUM LENGTH SHALL BE 12 IN. LENGTH FOR MULTI-CONDUITS SHALL BE 4 FT.
 (5) SET WOOD BLKG. IN MASTIC; SET EVERY THIRD WALKPAD IN MASTIC.
 (6) ASSUME A QUANTITY OF 1,000.

9 FLOATING SLEEPERS
 A10.41 SCALE: NOT TO SCALE



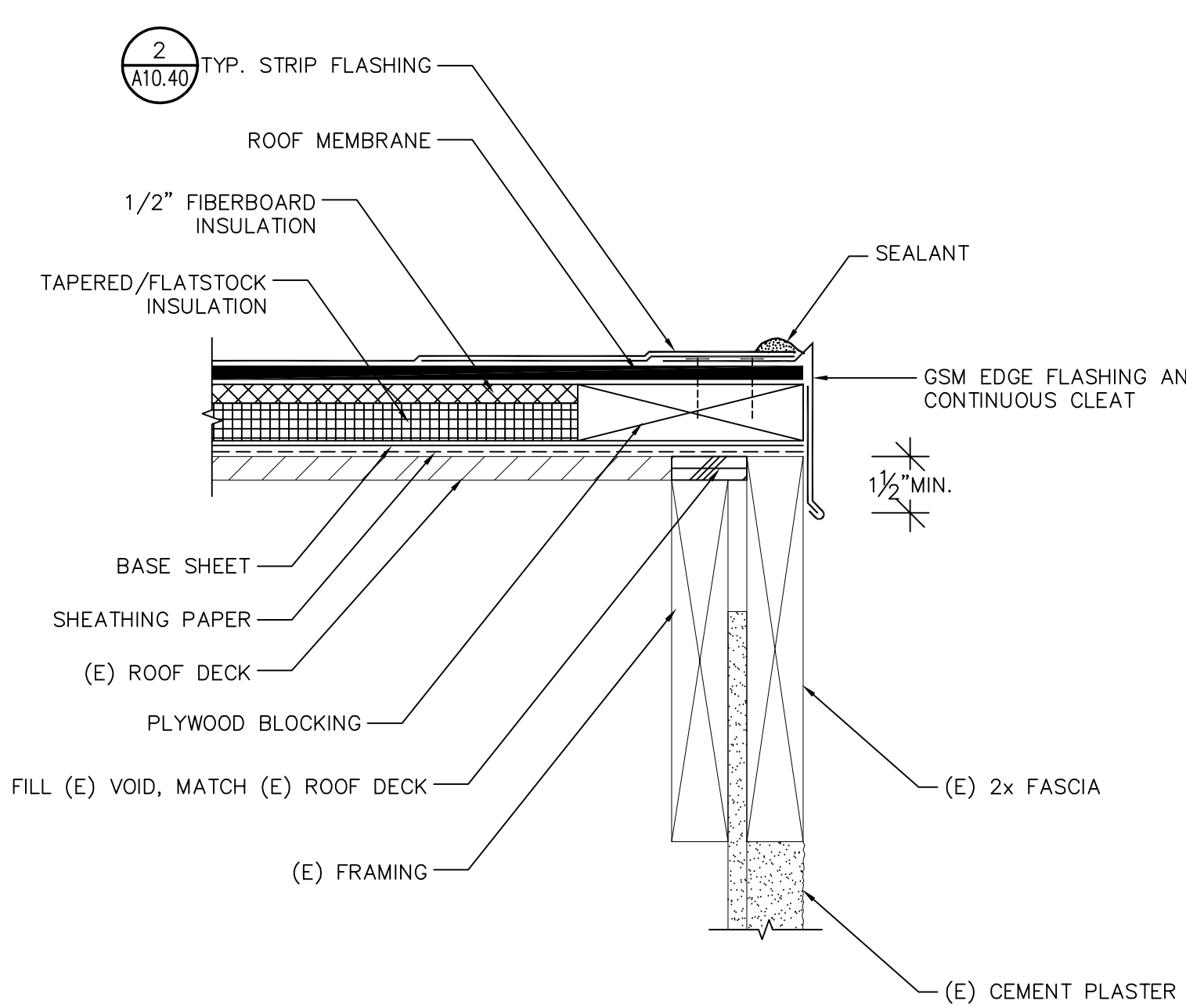
- NOTES:
 (1) IF CURB IS FACTORY FABRICATED, INSTALL FILLER INSULATION.
 (2) REMOVE AND REPLACE GSM SKIRT FLASHING.
 (3) REMOVE AND REPLACE FASTENERS IN KIND.

4 FAN/VENT
 A10.41 SCALE: NOT TO SCALE

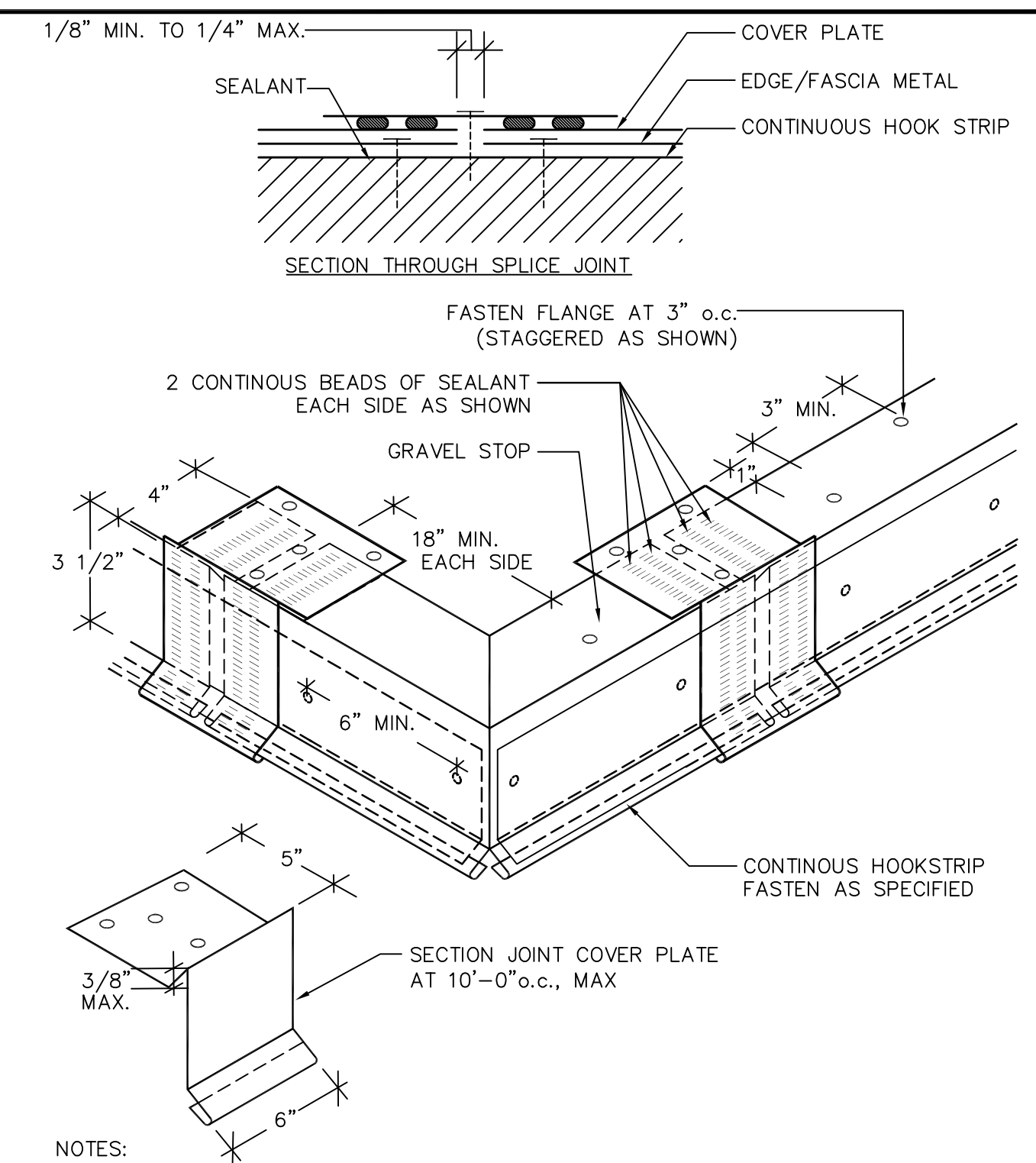


- NOTE:
 (1) SEE DETAILS 1/A10.41 AND 2/A10.41 FOR TYP. SPLICE AND CORNER JOINTS.

5 GUTTER EDGE
 A10.41 SCALE: NOT TO SCALE

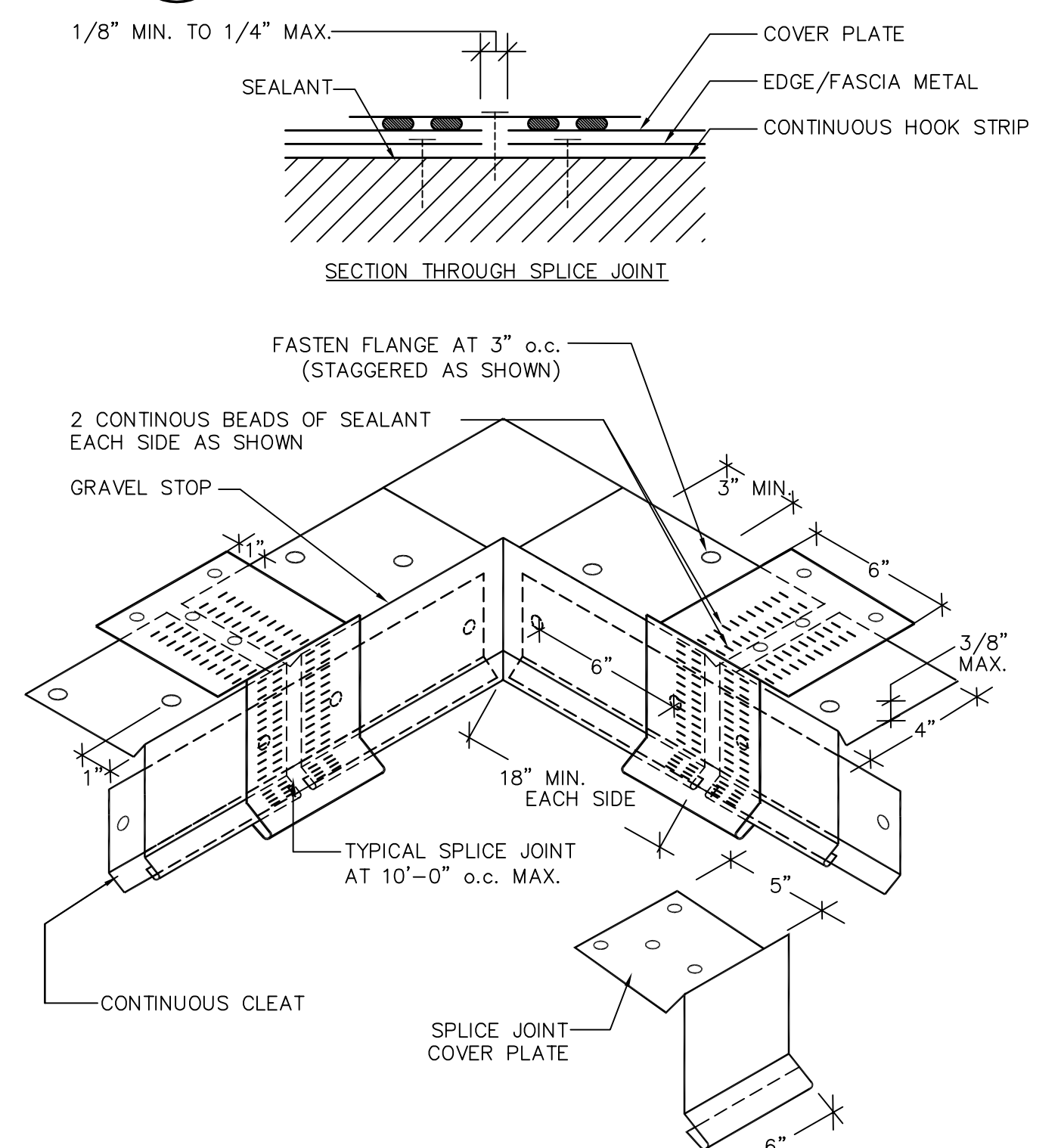


6 RAKE
 A10.41 SCALE: NOT TO SCALE



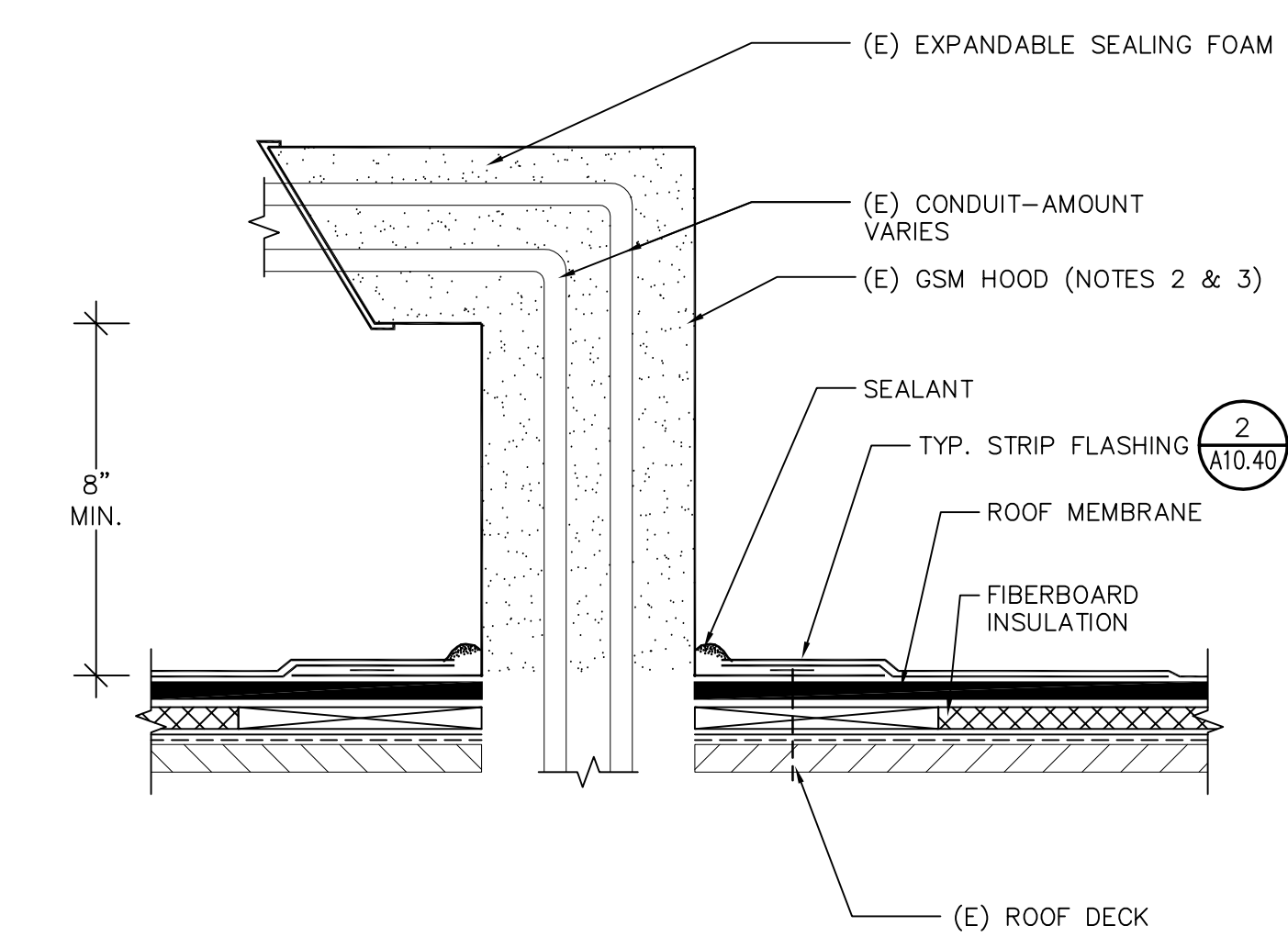
- NOTES:
 (1) MECHANICALLY FASTEN AND SOLDER CORNER INSERTS TO FORM CONTINUOUS PIECE.
 (2) NOTCH EDGE METAL TO ACCOMMODATE GUTTER, WHERE REQUIRED.
 (3) REFER TO ROOF EDGE DETAIL FOR EDGE METAL DETAIL.

1 EDGE METAL OUTSIDE CORNER
 A10.41 SCALE: NOT TO SCALE



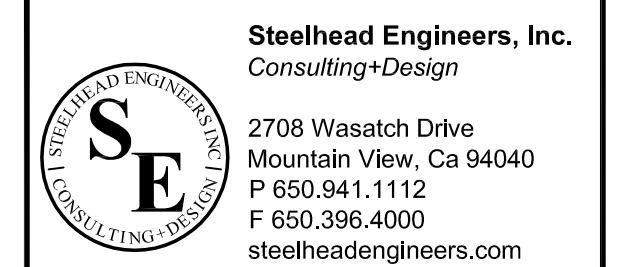
- NOTES:
 (1) MECHANICALLY FASTEN AND SOLDER CORNER INSERTS TO FORM CONTINUOUS PIECE.
 (2) NOTCH EDGE METAL TO ACCOMMODATE GUTTER, WHERE REQUIRED.
 (3) REFER TO ROOF EDGE DETAIL FOR EDGE METAL DETAIL.

2 EDGE METAL INSIDE CORNER
 A10.41 SCALE: NOT TO SCALE



- NOTE:
 (1) RE-USE (E) FLANGES AND PRIME BOTH SIDES.

3 MULTIPLE PIPE PENETRATIONS
 A10.41 SCALE: NOT TO SCALE



This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

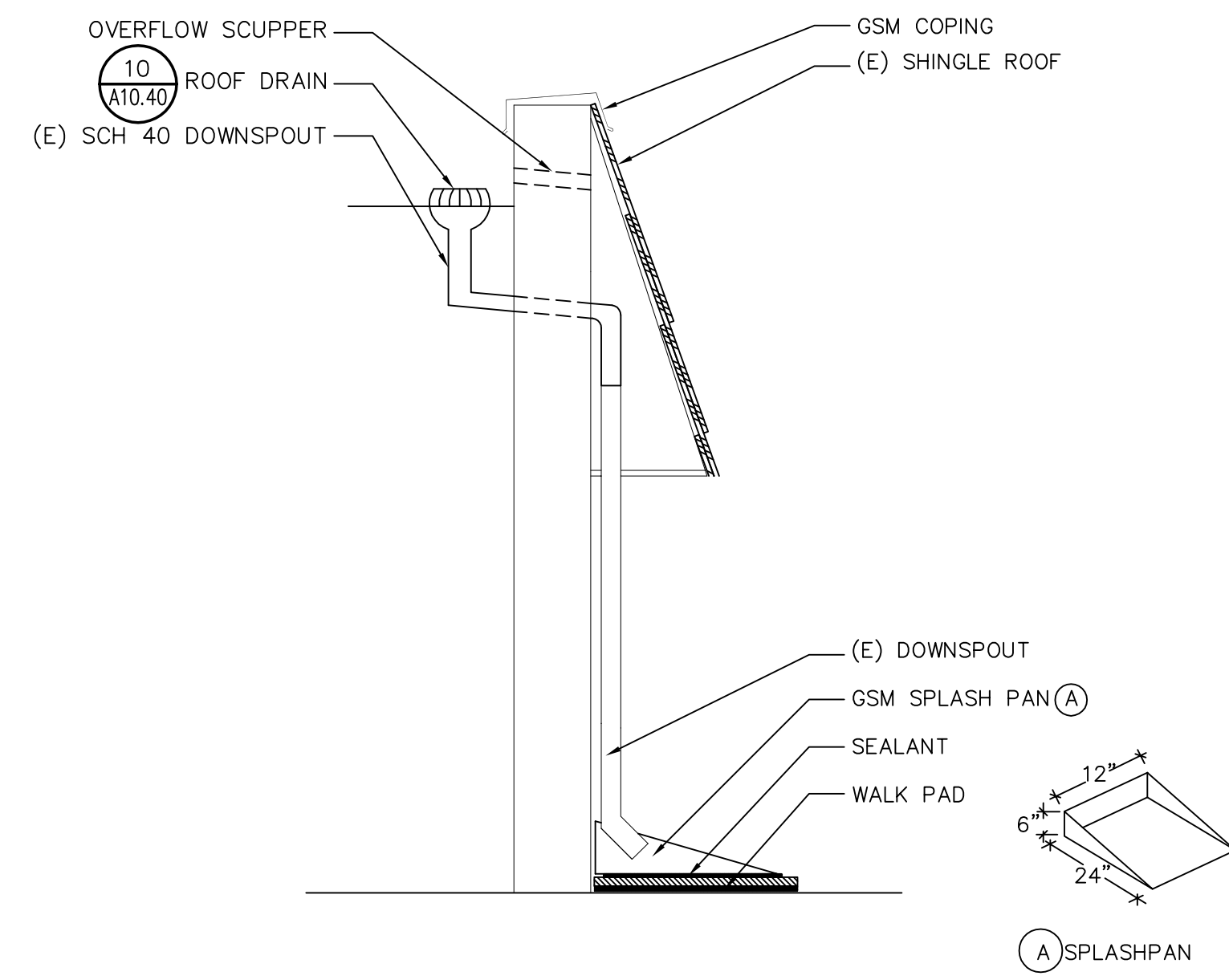
PROJECT: **ROOF REPLACEMENT-BUILDINGS 100 TO 500 NORTHWOOD ELEMENTARY SCHOOL 2760 EAST TRIMBLE ROAD SAN JOSE, CALIFORNIA**
 OWNER: **BERRYESSA UNION SCHOOL DISTRICT 1376 PIEDMONT ROAD SAN JOSE, CALIFORNIA**

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY
PROJECT NO.	21043		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY			
DATE	15 OCT 2021		
DRAWING SCALE	AS NOTED		

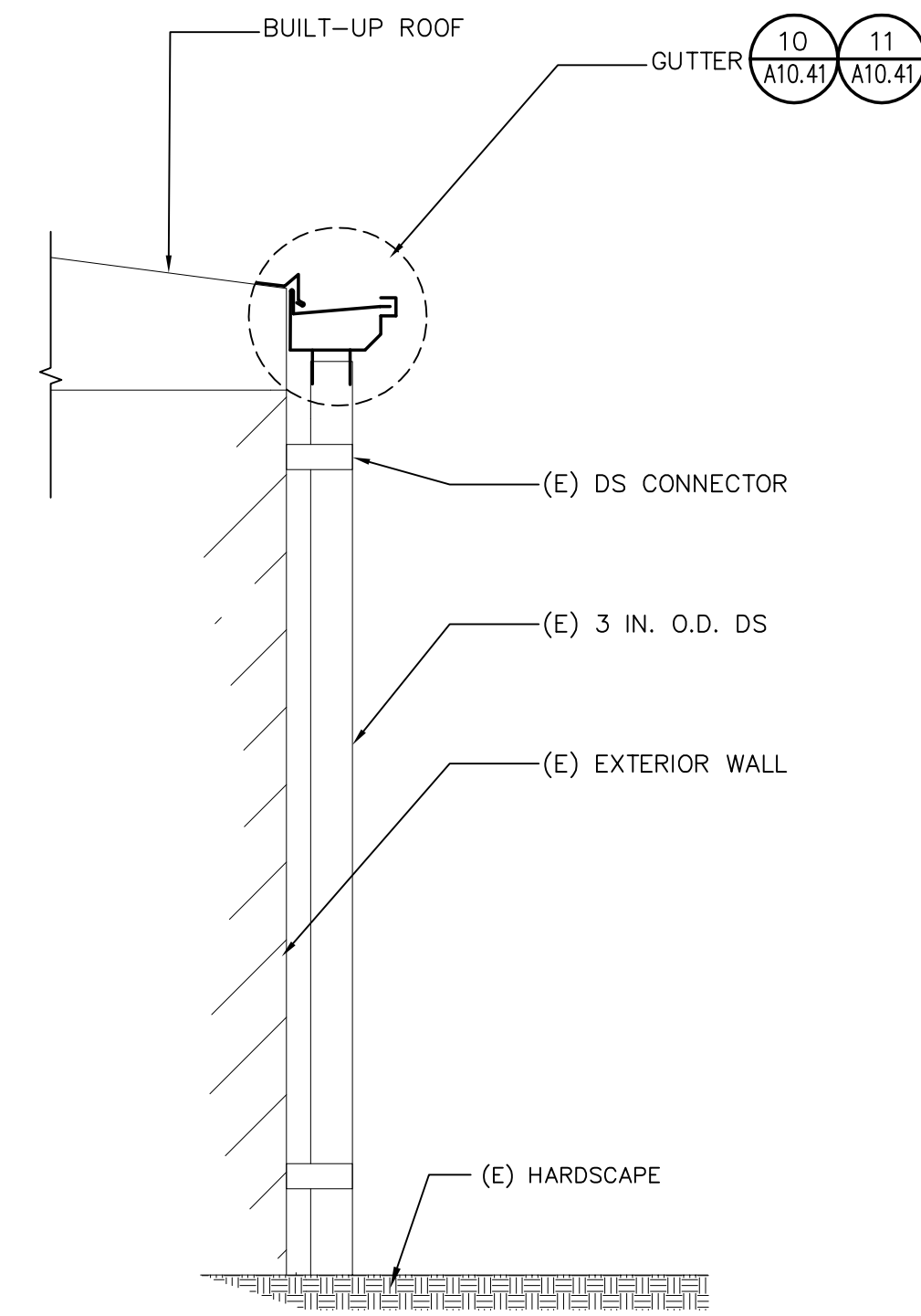
SHEET TITLE: **ROOF REPLACEMENT DETAILS**

DRAWING NO.

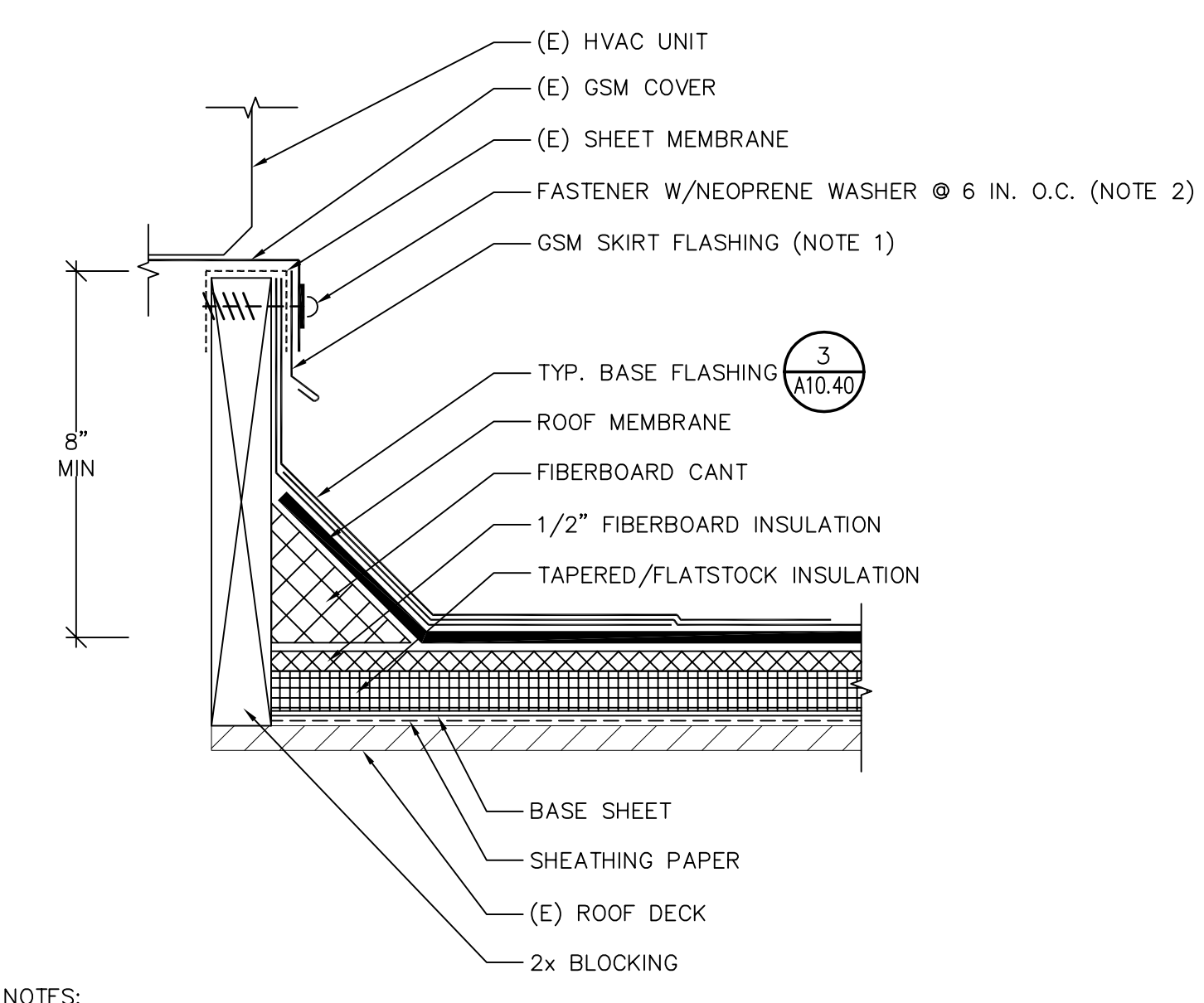
A10.41
 OF



10 DOWNSPOUT-TYPE IV
A10.42 SCALE: NOT TO SCALE

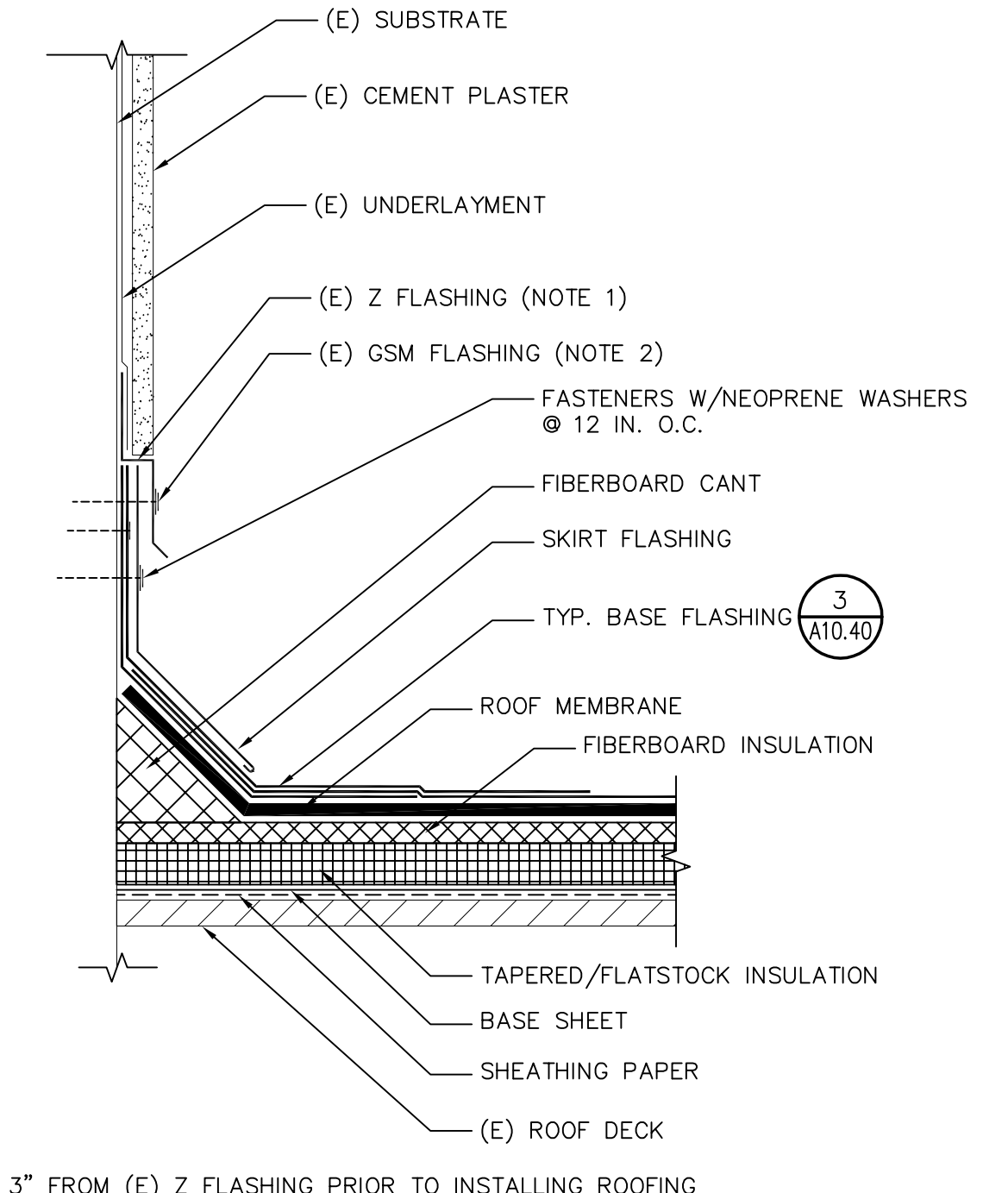


7 DOWNSPOUT-TYPE I
A10.42 SCALE: NOT TO SCALE



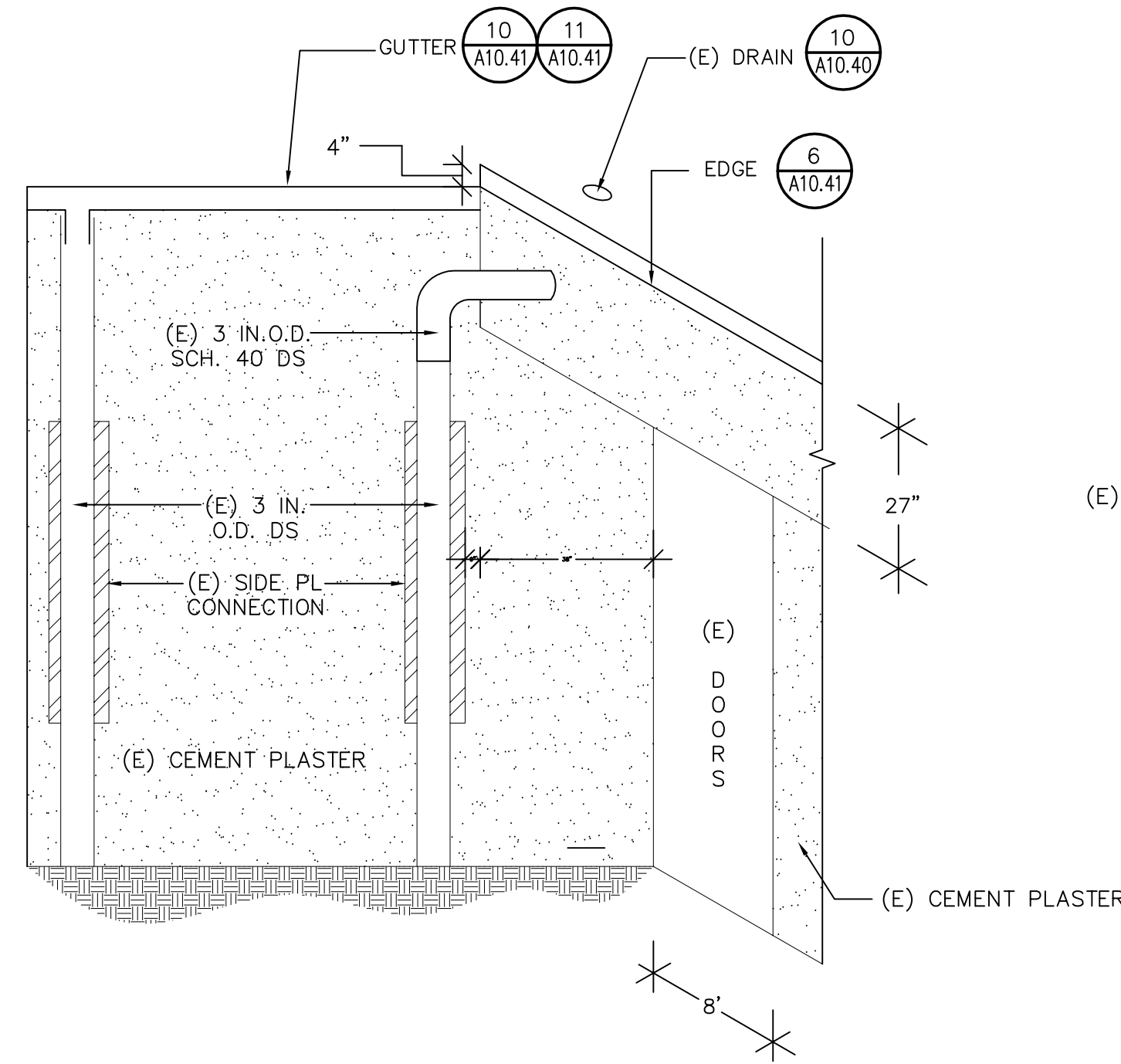
NOTES:
(1) REMOVE AND REPLACE (E) GSM SKIRT FLASHING.
(2) REMOVE AND REPLACE FASTENER IN KIND.

4 MECHANICAL UNIT CURB-TYPE I
A10.42 SCALE: NOT TO SCALE

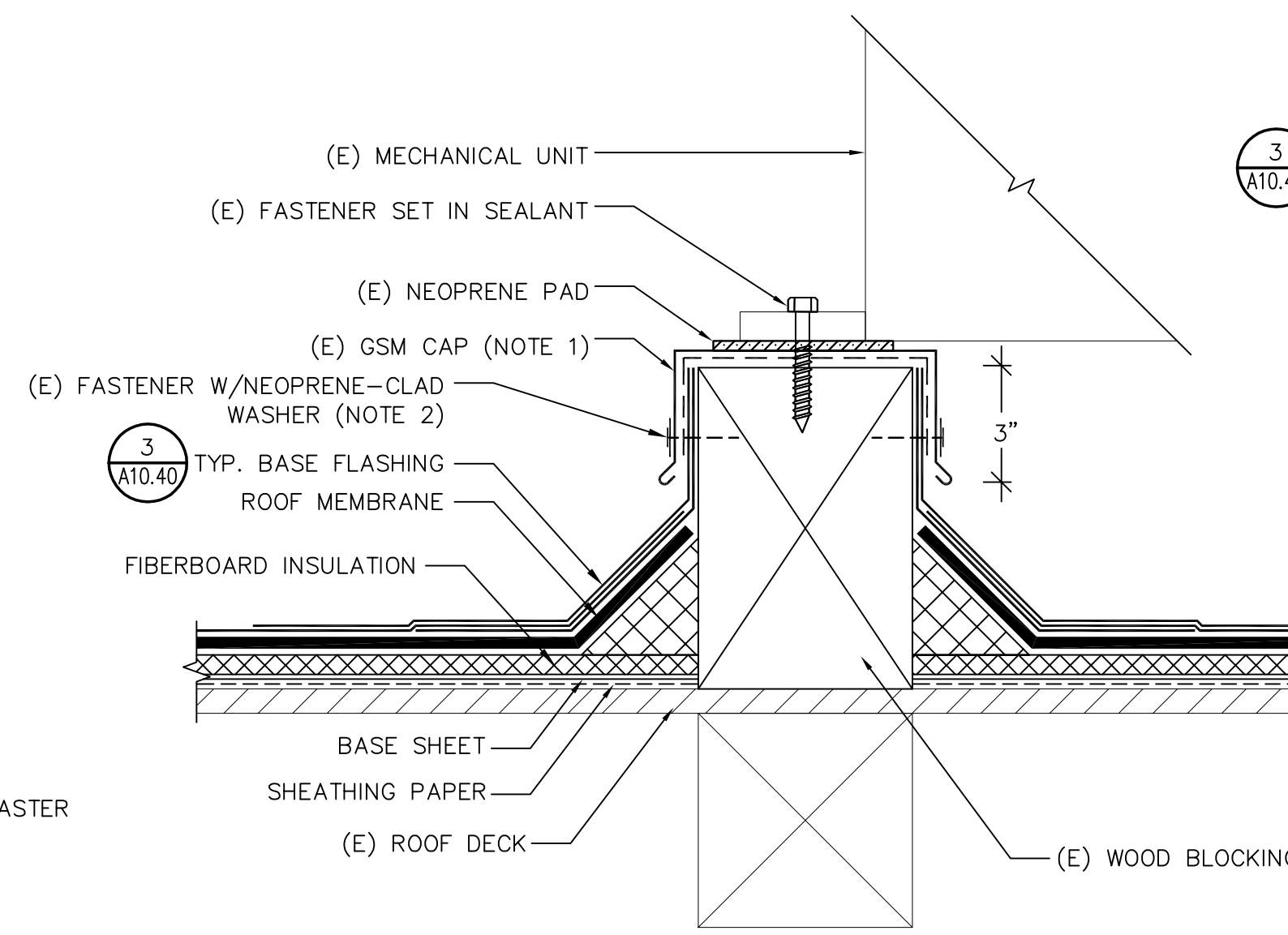


NOTES:
(1) CUT 3" FROM (E) Z FLASHING PRIOR TO INSTALLING ROOFING MEMBRANE.
(2) LIFT (E) GSM FLASHING TO INSTALL BASE FLASHING. SECURE WITH FASTENERS WITH NEOPRENE-CLAD WASHERS SPACED @ 8" O.C.

1 ROOF TO WALL-TYPE I
A10.42 SCALE: NOT TO SCALE

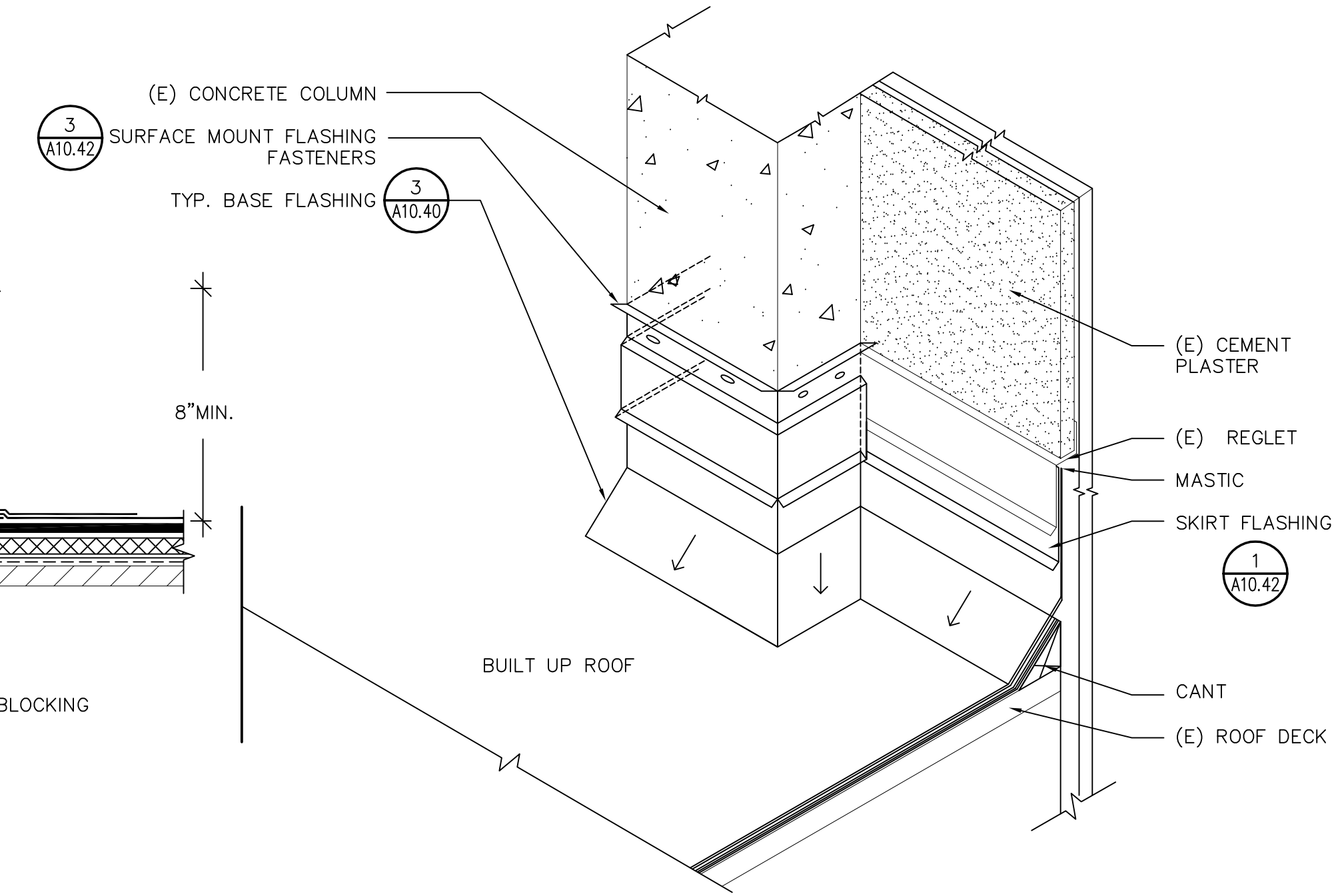


8 DOWNSPOUT-TYPE II
A10.42 SCALE: NOT TO SCALE



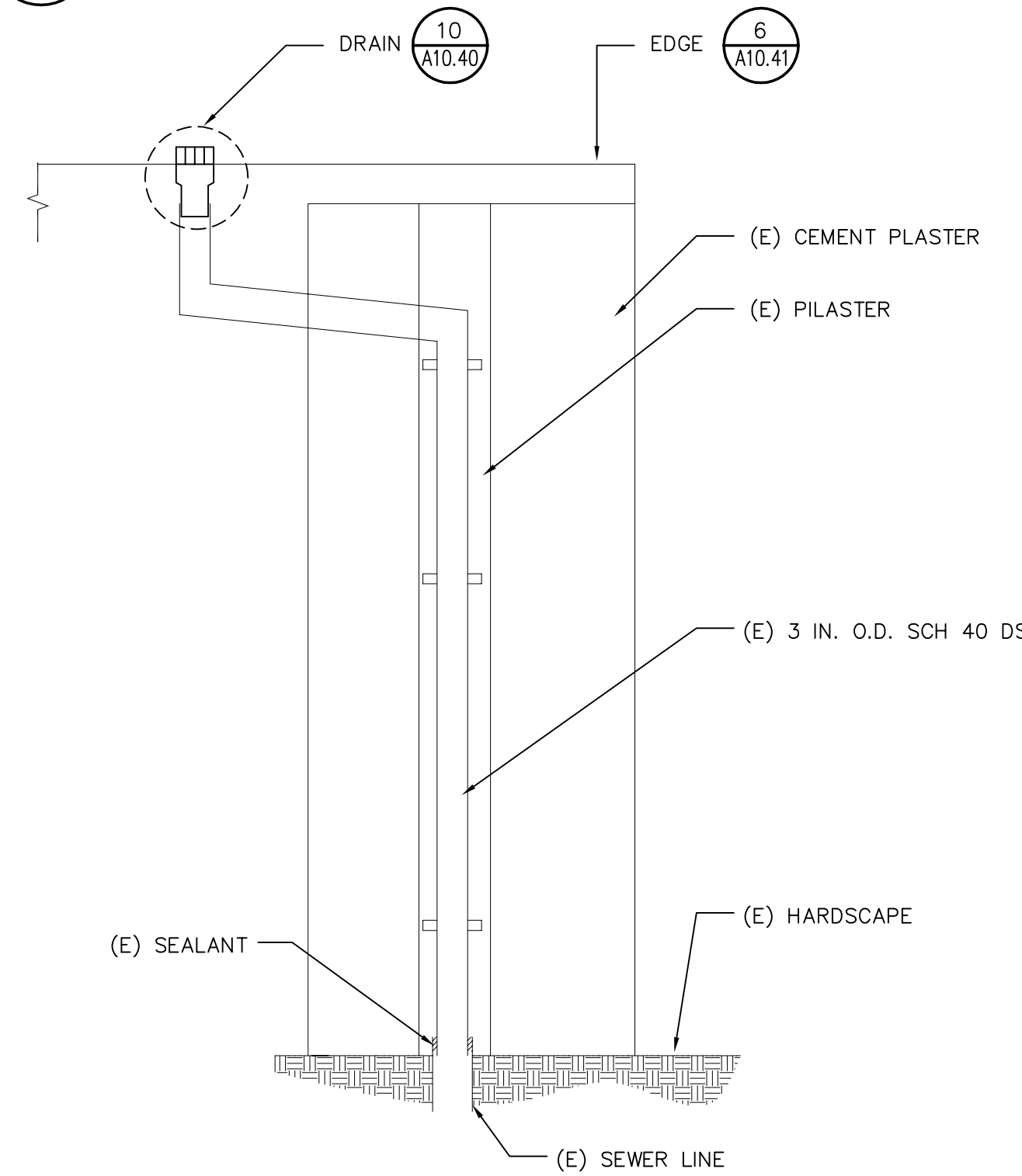
NOTES:
(1) LIFT VERTICAL LEGS OF GSM CAP AS REQUIRED TO INSTALL NEW ROOF.
(2) REMOVE AND REPLACE FASTENER IN KIND.

5 MECHANICAL UNIT CURB-TYPE II
A10.42 SCALE: NOT TO SCALE

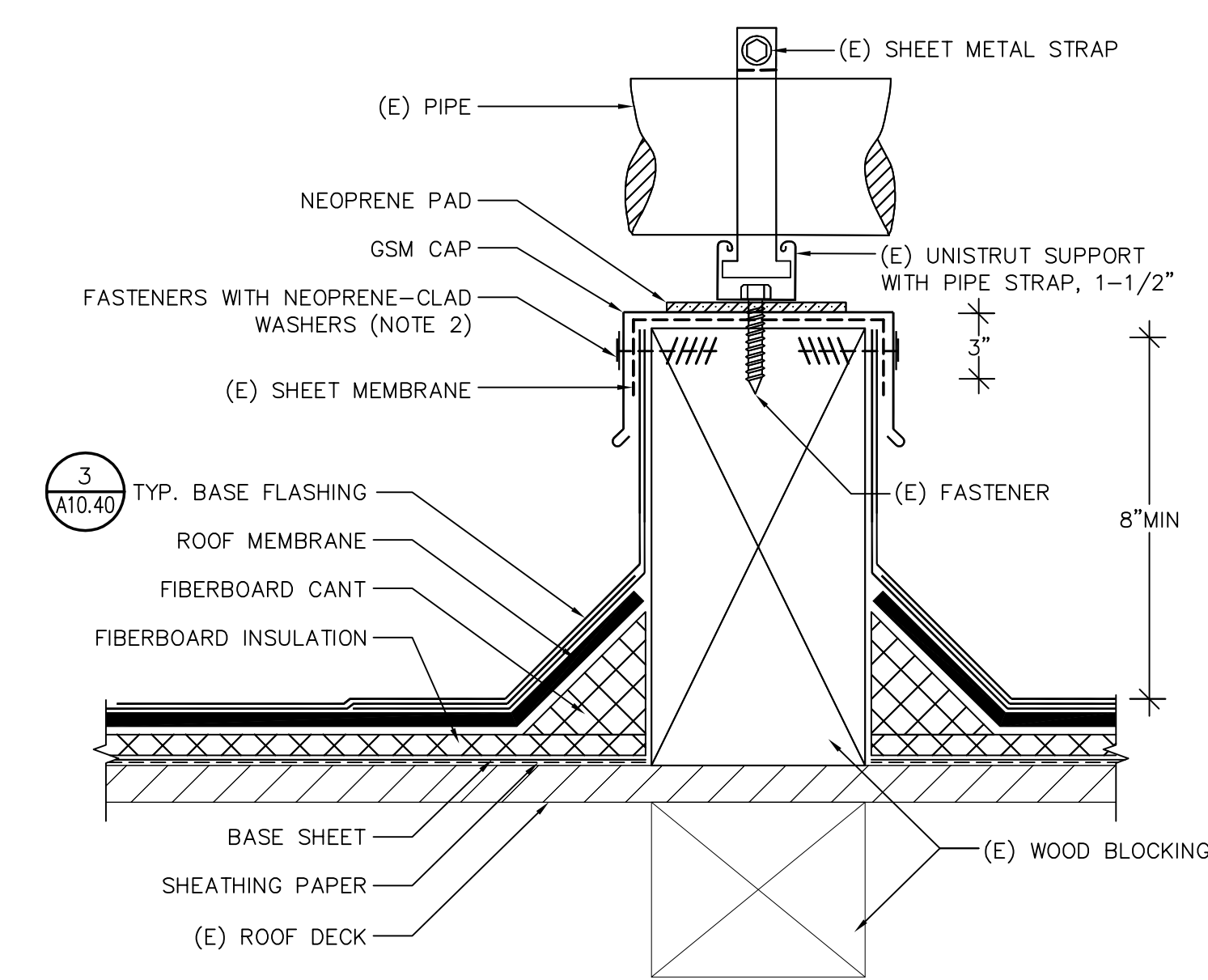


2 WALL CORNER
A10.42 SCALE: NOT TO SCALE

11 SCALE: NOT TO SCALE

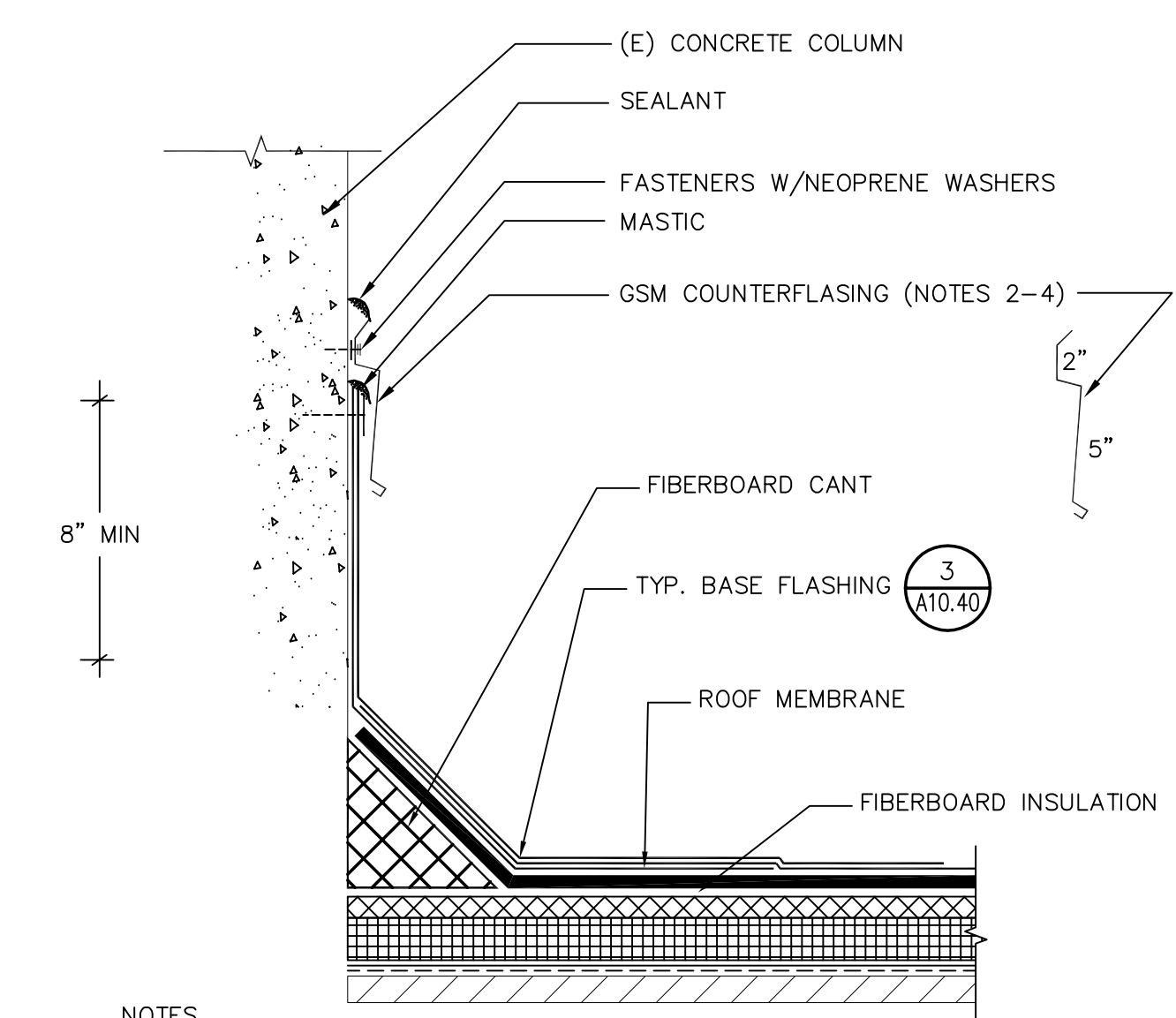


9 DOWNSPOUT-TYPE III
A10.42 SCALE: NOT TO SCALE



NOTES:
(1) INSTALL CRICKET IF BLOCK LENGTH IS GREATER THAN 2 FT. AND IF ORIENTED PERPENDICULAR TO ROOF SLOPE.
(2) LIFT VERTICAL LEGS OF GSM CAPS TO INSTALL ROOFS.
(3) REMOVE AND REPLACE FASTENERS.

6 CONDUIT CURB
A10.42 SCALE: NOT TO SCALE



NOTES:
(1) MECHANICALLY FASTEN AND SOLDER WATER TIGHT CORNER JOINTS.
(2) PROVIDE TRANSITION PIECES IN CHANGES IN WALL PLANE.
(3) FILL IN VERTICAL REVEALS WITH SEALANT AT & BELOW REGLET.
(4) PRIME CONCRETE SUBSTRATE TO RECEIVE MEMBRANE.
(5) REMOVE (E) GSM FLASHING.

3 ROOF TO WALL-TYPE II
A10.42 SCALE: NOT TO SCALE

12 SCALE: NOT TO SCALE

Steelhead Engineers, Inc.
Consulting+Design
2708 Wasatch Drive
Mountain View, Ca 94040
P 650.941.1112
F 650.396.4000
steelheadengineers.com

This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT
ROOF REPLACEMENT-BUILDINGS 100 TO 500 NORTHWOOD ELEMENTARY SCHOOL 2760 EAST TRIMBLE ROAD SAN JOSE, CALIFORNIA

OWNER
BERRYSSA UNION SCHOOL DISTRICT 1376 PIEDMONT ROAD SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
3/16/22		REVIEW SET	EY

PROJECT NO. 21043

CADD FILE

DESIGNED BY AEB

DRAWN BY EY

CHECKED BY

DATE 15 OCT 2021

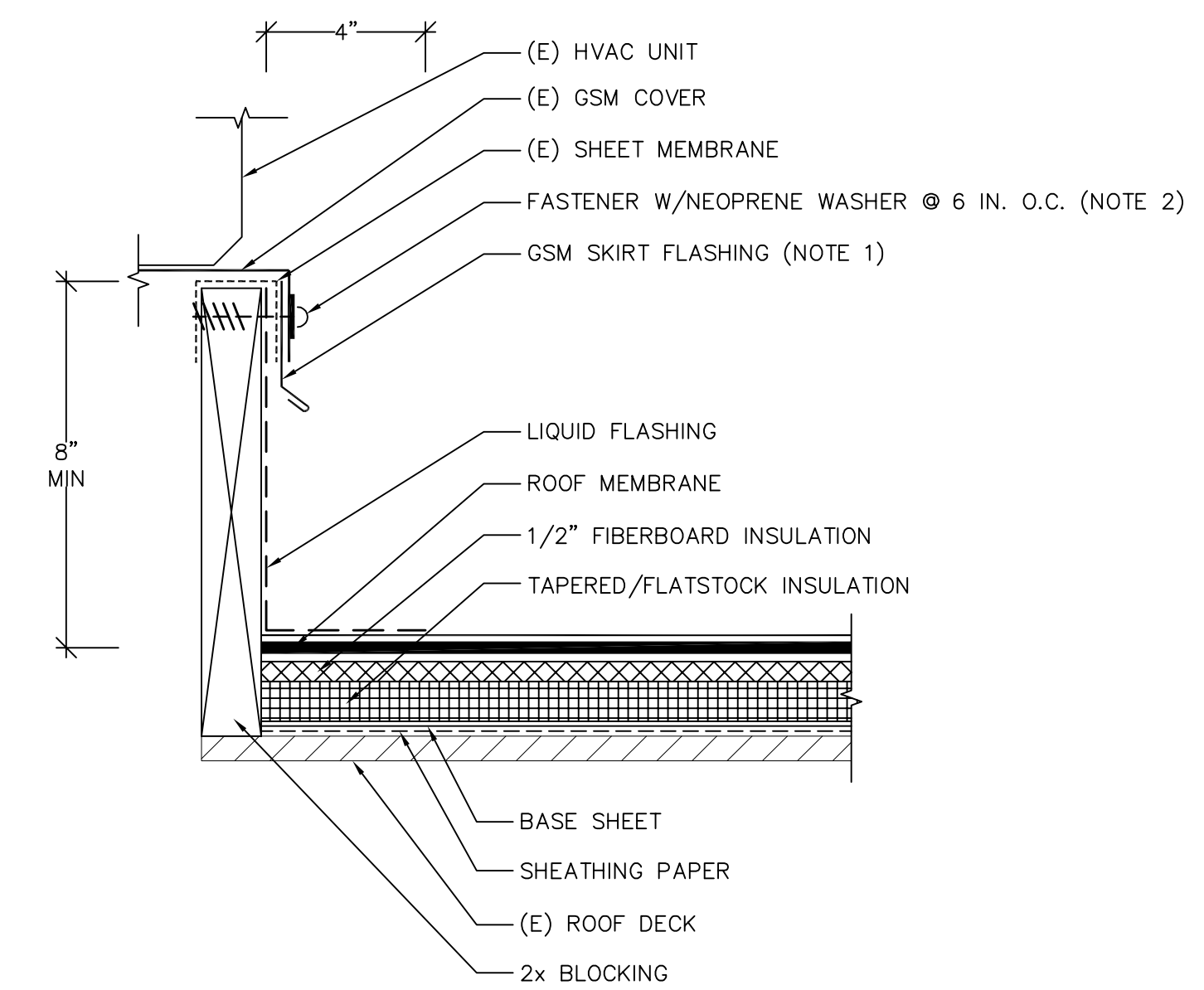
DRAWING SCALE AS NOTED

SHEET TITLE

ROOF REPLACEMENT DETAILS

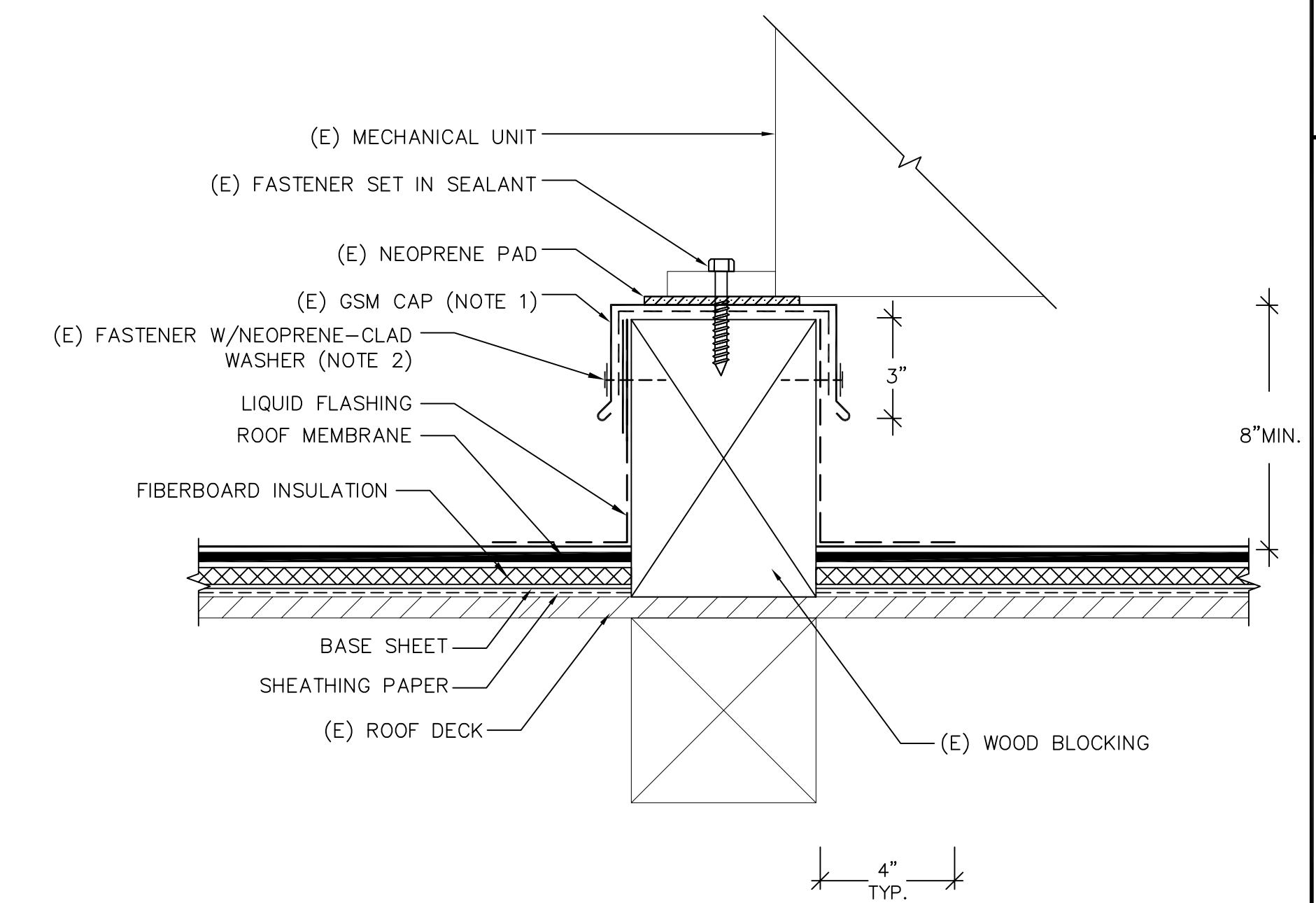
DRAWING NO.

A10.42



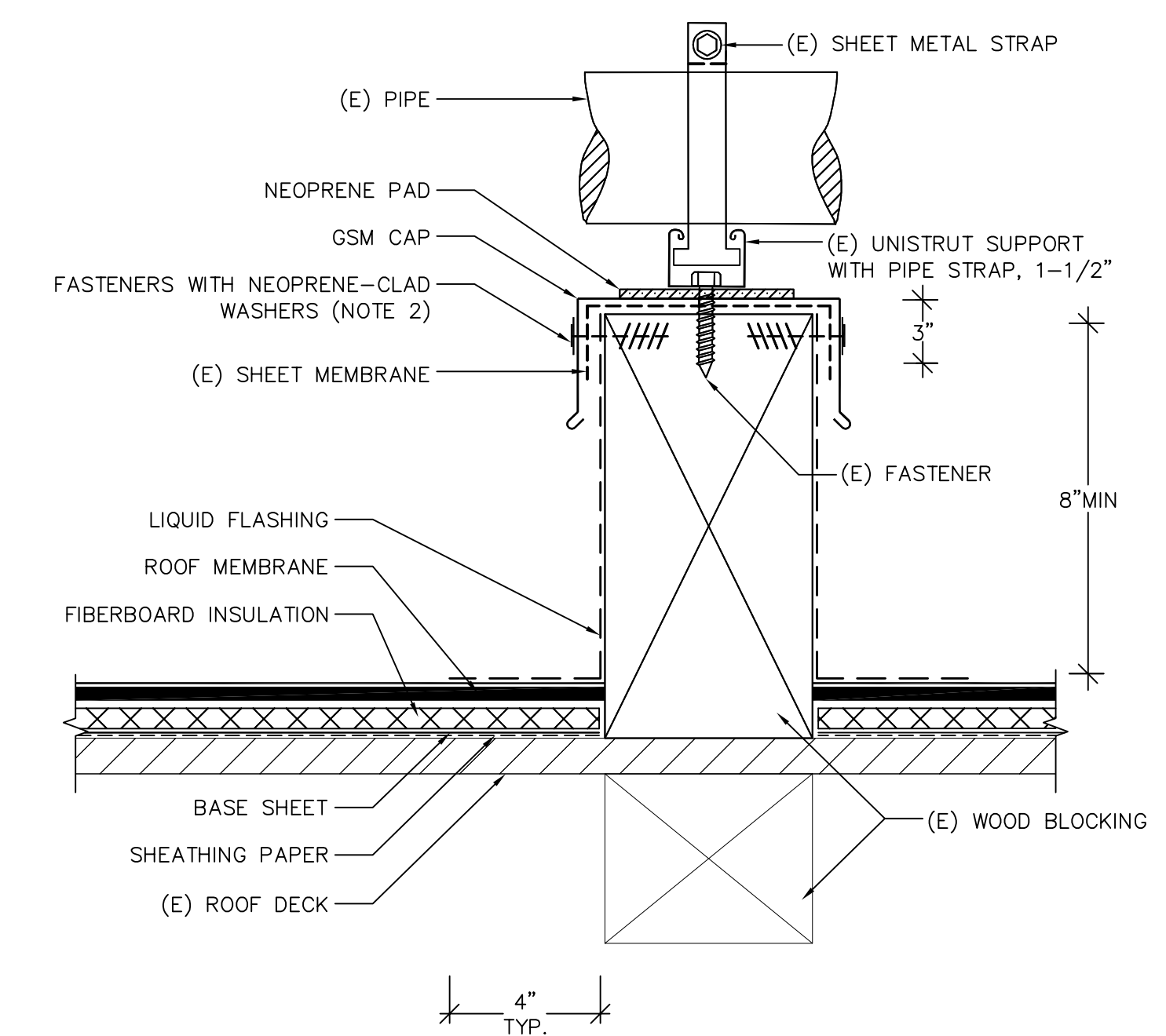
- NOTES:
 (1) REMOVE AND REPLACE (E) GSM SKIRT FLASHING.
 (2) REMOVE AND REPLACE FASTENER IN KIND.

1 MECHANICAL UNIT CURB-TYPE I
 (ALTERNATE)
 A10.43 SCALE: NOT TO SCALE



- NOTES:
 (1) LIFT VERTICAL LEGS OF GSM CAP AS REQUIRED TO INSTALL NEW ROOF.
 (2) REMOVE AND REPLACE FASTENER IN KIND.

2 MECHANICAL UNIT CURB-TYPE II
 (ALTERNATE)
 A10.43 SCALE: NOT TO SCALE



- NOTES:
 (1) INSTALL CRICKET IF BLOCK LENGTH IS GREATER THAN 2 FT. AND IF ORIENTED PERPENDICULAR TO ROOF SLOPE.
 (2) LIFT VERTICAL LEGS OF GSM CAPS TO INSTALL ROOFS.
 (3) REMOVE AND REPLACE FASTENERS.

3 CONDUIT CURB
 (ALTERNATE)
 A10.43 SCALE: NOT TO SCALE

Steelhead Engineers, Inc.
 Consulting+Design
 2708 Wasatch Drive
 Mountain View, Ca 94040
 P 650.941.1112
 F 650.396.4000
 steelheadengineers.com

This drawing and the design and construction features disclosed are proprietary to Steelhead Engineers, Inc. and shall not be altered or reused in whole or part without the express written permission of Steelhead Engineers, Inc. Copyright©2021

PROJECT
ROOF REPLACEMENT-BUILDINGS 100 TO 500 NORTHWOOD ELEMENTARY SCHOOL 2760 EAST TRIMBLE ROAD SAN JOSE, CALIFORNIA

OWNER
 BERRYSSA UNION SCHOOL DISTRICT
 1376 PIEDMONT ROAD
 SAN JOSE, CALIFORNIA

NO.	DATE	DESCRIPTION	BY
	3/16/22	REVIEW SET	EY

SHEET TITLE

ROOF REPLACEMENT DETAILS

DRAWING NO.

A10.43

OF