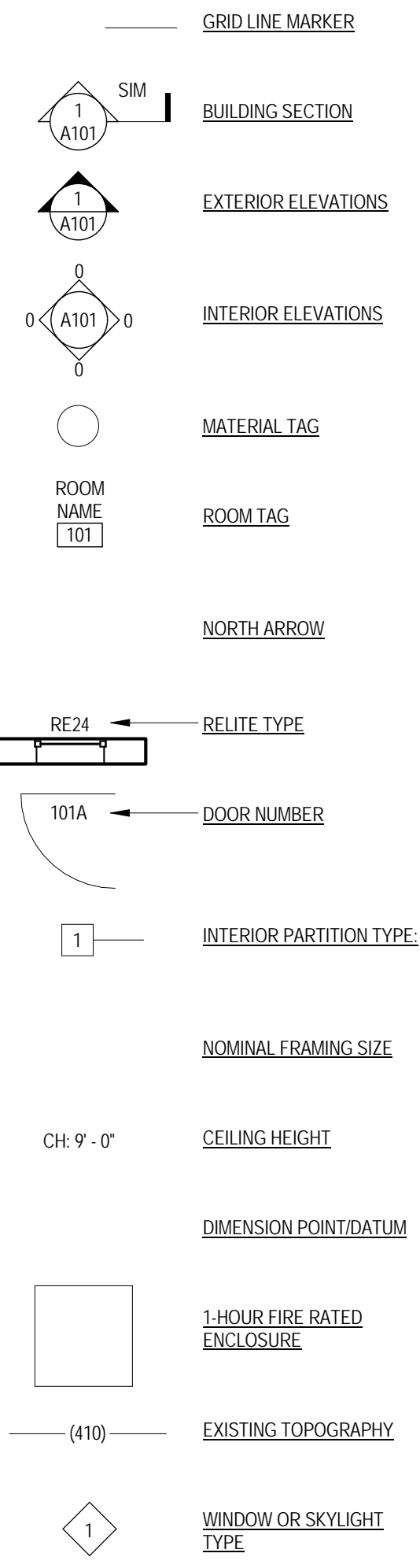


**Abbreviations**

AB ANCHOR BOLT	MAS MASONRY
AC ACOUSTICAL	MATL MATERIAL
ADJ ADJUSTABLE	MAX MAXIMUM
AFF ABOVE FINISH FLOOR	MB METAL BASE
ALUM ALUMINUM	MECH MECHANICAL
APC ACOUSTIC PANEL CEILING	MEMB MEMBRANE
ARCH ARCHITECT, ARCHITECTURAL	MFR MANUFACTURER
ASF ALUMINUM STOREFRONT	MIN MINIMUM
	MISC MISCELLANEOUS
BFF BELOW FINISH FLOOR	MTL METAL
BLDG BUILDING	MW MICROWAVE
BLKG BLOCKING	
BOS BOTTOM OF STRUCTURE	N NORTH
BTWN BETWEEN	NIC NOT IN CONTRACT
BUR BUILT-UP ROOF	NDM NOMINAL
	NTS NOT TO SCALE
CG CORNER GUARD	OC ON CENTER
CH CEILING HEIGHT	OCC OCCUPANTS, OCCUPANCY
CIP CAST-IN-PLACE	OD OUTSIDE DIAMETER
CJ CONTROL JOINT	OFF OFFICE
CL CENTERLINE	OH OVERHAND
CLG CEILING	OPNG OPENING
CLR CLEAR	OPP OPPOSITE VIEW
COL COLUMN	OTS OPEN TO STRUCTURE
CONC CONCRETE	
CONST CONSTRUCTION	P PAINT
CONT CONTINUOUS	P- PLUMBING FIXTURE
CONTR CONTRACTOR	PC POLYMER CEMENT
CORR CORRIDOR	PERF PERFORATED
CPT CARPET	PH PANIC HARDWARE
CT CERAMIC TILE	PL PLATE
CTR CENTER	PLAM PLASTIC LAMINATE
	PLAS PLASTIC
DEPT DEPARTMENT	PLYMD PLYWOOD
DF DRINKING FOUNTAIN	PNL PANEL
DIA DIAMETER	PNT PAINT, PAINTED
DM DIMENSION	PREFAB PREFABRICATED
DL DEADLOAD	PREFIN PREFINISHED
DN DOWN	PT PRESSURE TREATED
DP DIMENSION POINT	PTH PAPER TOWEL HOLDER
DR DOOR	
DS DOWNSPOUT	R RADIUS
DW DISHWASHER	RB RUBBER BASE
DWG DRAWING	RCP REFLECTED CEILING PLAN
	RD ROOF DRAIN
(E) EXISTING	REF REFER, REFERENCE
E EAST	REFR REFRIGERATOR
EA EACH	REINF REINFORCE, REINFORCED
EB EXPANSION BOLT	REQD REQUIRED
EJ EXPANSION JOINT	REV REVISION
EL ELEVATION	RM ROOM
ELEC ELECTRICAL	RO ROUGH OPENING
ELEV ELEVATOR	RP RESIN PANEL
EMER EMERGENCY	
EQ EQUAL	SAFF SELF-ADHERED FLEXIBLE FLASHING
EQUIP EQUIPMENT	SCHED SCHEDULE
EW EACH WAY	SF SQUARE FEET
EXH EXHAUST	SHIT SHEET
EXP EXPANSION	SHTG SHEATHING
EXT EXTERIOR	SIM SIMILAR
	SMC SUSPENDED METAL CEILING
F FIXTURE (LIGHT FIXTURE)	SP SPLASH PAN
FBO FURNISHED BY OWNER	SPEC SPECIFICATION, SPECIFIED
FD FLOOR DRAIN	SO SQUARE
FE FIRE EXTINGUISHER	SSF SOLID SURFACING
FEC FIRE EXTINGUISHER CABINET	SSTL STAINLESS STEEL
FF FINISH FLOOR	STL STEEL
FG FINISH GRADE	STOR STORAGE
FIN FINISH	STN STAIN
FIXT FIXTURE	STRUCT STRUCTURAL
FLSHG FLASHING	SUSP SUSPENDED
FND FOUNDATION	
FO FACE OF	T THERMOSTAT
FOIC FURNISHED BY OWNER	T&G TONGUE & GROOVE
	TEL TELEPHONE
FOIO FURNISHED AND INSTALLED BY OWNER	TEMP TEMPORARY
FT FOOT, FEET	TEMP TEMPERED
FTG FOOTING	THK THICK
FV FIELD VERIFY	TO TOP OF
	TOS TOP OF STRUCTURE
GA GAUGE	TOW TOP OF WALL
GB GRAB BAR	TYP TYPICAL
G&S GLUE & SCREW	
GALV GALVANIZED	UNO UNLESS NOTED OTHERWISE
GC GENERAL CONTRACTOR	
GEN GENERAL	V VERIFY
GL GLASS	VB VAPOR BARRIER
GL GRID LINE	VCT VINYL COMPOSITION TILE
GMT GLASS MOSAIC TILE	VERT VERTICAL
GWB GYPSUM BOARD	VEST VESTIBULE
GS GYPSUM SHEATHING	VIF VERIFY IN FIELD
	VP VENEER PLASTER
H HIGH	
HI HIGH	W WIDE
HDWR HARDWARE	W WATT(S)
HM HOLLOW METAL	W WINDOW
HORIZ HORIZONTAL	W WITH
HR HOUR	WC WATER CLOSET
HT HEIGHT	WD WOOD
HVAC HEATING, VENTILATION, AIR CONDITIONING	WID WASHER/DRYER
HWD HARDWOOD	WOF WOOD FLOORING
HWH HOT WATER HEATER	WGP WOOD GRID PANEL
	WIO WITHOUT
ID INSIDE DIAMETER	WP WATERPROOF
IN INCH	WT WEIGHT
INCL INCLUDE INCLUDING	WWF WELDED WIRE FABRIC
INSUL INSULATE, INSULATION	WWM WELDED WIRE MESH
INT INTERIOR	
JT JOINT	
L LOCK	
LAM LAMINATE, LAMINATED	
LAV LAVATORY	
LL LIVE LOAD	
LN LINOLEUM	
L LOW	
LO LOW	
LT LIGHT	
LV LIGHT VALENCE	
LWC LINEAR WOOD CEILING	

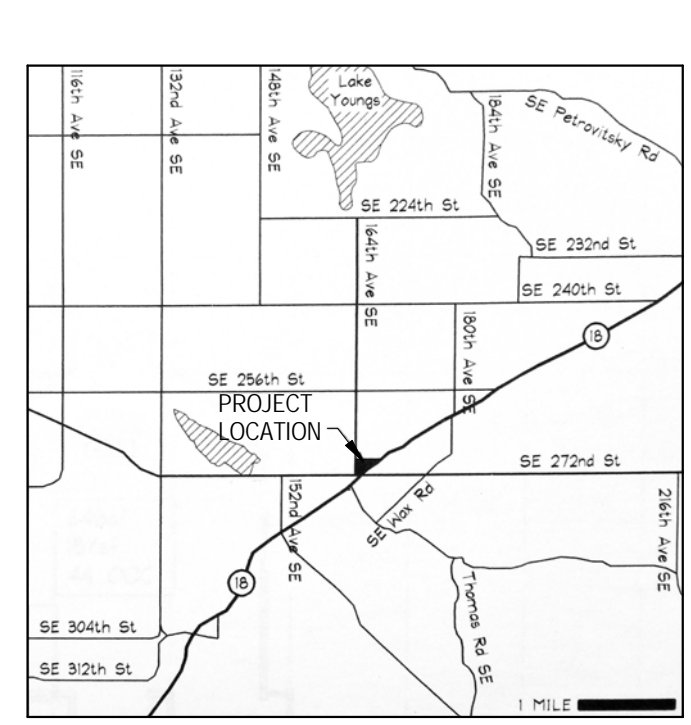
**Drawing Symbols**



**General Notes**

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL REPORT ERRORS, OMISSIONS AND DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- DIMENSIONS ARE SHOWN FACE OF STUD, FACE OF CONCRETE OR MASONRY, AND TO CENTERLINE OF GRID LINES, UNLESS NOTED OTHERWISE ON THE DRAWINGS. DIMENSIONS ARE SHOWN TO FACE OF FINISH FOR EXISTING WORK.
- ALL APPLICABLE CODES AND ORDINANCES TAKE PRECEDENCE OVER ALL DRAWINGS, NOTES AND SPECIFICATIONS.
- ALL WORK IS TO CONFORM TO THE CURRENT VERSION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL AMENDMENTS IN EFFECT IN THE PERMITTING JURISDICTION AT THE TIME OF PERMITTING.
- REPETITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL.
- THESE DRAWINGS ARE SPECIFIC TO THIS PROJECT. THESE DRAWINGS OR PORTIONS THEREOF SHALL NOT BE USED FOR OTHER PROJECTS.
- STOP WORK AND NOTIFY OWNER IF ASBESTOS OR HAZARDOUS MATERIALS ARE DISCOVERED.
- DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL REFER TO DIMENSIONS SHOWN ON DRAWINGS AND INFORM ARCHITECT OF ANY DISCREPANCIES.

**Vicinity Map**



**Project Description**

PARTIAL RE-ROOFING, RE-CLADDING, AND WINDOW & SKYLIGHT REPLACEMENT OF EXISTING COVINGTON LIBRARY BUILDING.

**Sheet Index**

Architectural	AA1.00	Title Sheet, Sheet Index, General Notes
Architectural	A1.00	Site Plan
Architectural	A2.01	Roof Plan
Architectural	A3.00	Exterior Roof Elevations
Architectural	A3.01	Exterior Roof Elevations
Architectural	A4.00	Wall Sections
Architectural	A6.00	Exterior Roof Details
Architectural	A6.01	Exterior Roof Details
Architectural	A6.10	Window & Skylight Details
Electrical	E1.01	Electrical Roof Plan
Mechanical	M0.01	Legend, Abbreviations, General Notes and Sheet Index
Mechanical	M1.01	Mechanical Roof Plan
Mechanical	M2.01	Mechanical Details

**Legal Description**

POR OF SW 1/4 OF SW 1/4 OF SW 1/4 LY S OF N LN OF S 180 FT OF N 1/2 TH OF & LY NWLY OF PRIMARY STATE HWY #2 LESS W 20 FT FOR 164TH AVE SE LESS POR CONV TO STATE OF WA BY OCD REC NO 9004091314 LESS POR CONV TO KING CO BY DEED REC NO 9203120453 LESS POR CONDEMNED IN KING CO SUP CT CAUSE NO 83-2-03072-2

**Tax Assessor's Parcel Number**

252205-9096

**Project Address**

27100 164TH AVENUE SOUTHWEST  
COVINGTON, WA 98042

**Owner**

KING COUNTY LIBRARY SYSTEM  
960 NEWPORT WAY NW  
ISSAQUAH, WA 98027

**Architect**

MILLER HAYASHI ARCHITECTS  
118 N 35TH STREET, SUITE 200  
SEATTLE, WA 98103  
206-634-0177  
CONTACT: BRUCE HAYASHI, ERIK SALISBURY

**Mechanical/ Electrical**

HARGIS ENGINEERS  
800 STEWART ST., SUITE 1000  
SEATTLE, WA 98101

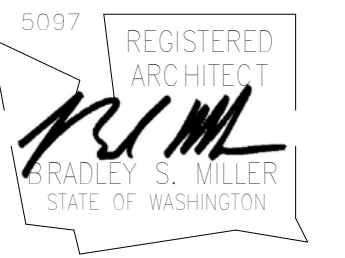
PHASE	
<b>Bid Set</b>	
DATE	
<b>5/10/16</b>	
REVISIONS	
Description	Date

**Title Sheet, Sheet Index, General Notes**

SHEET NO.

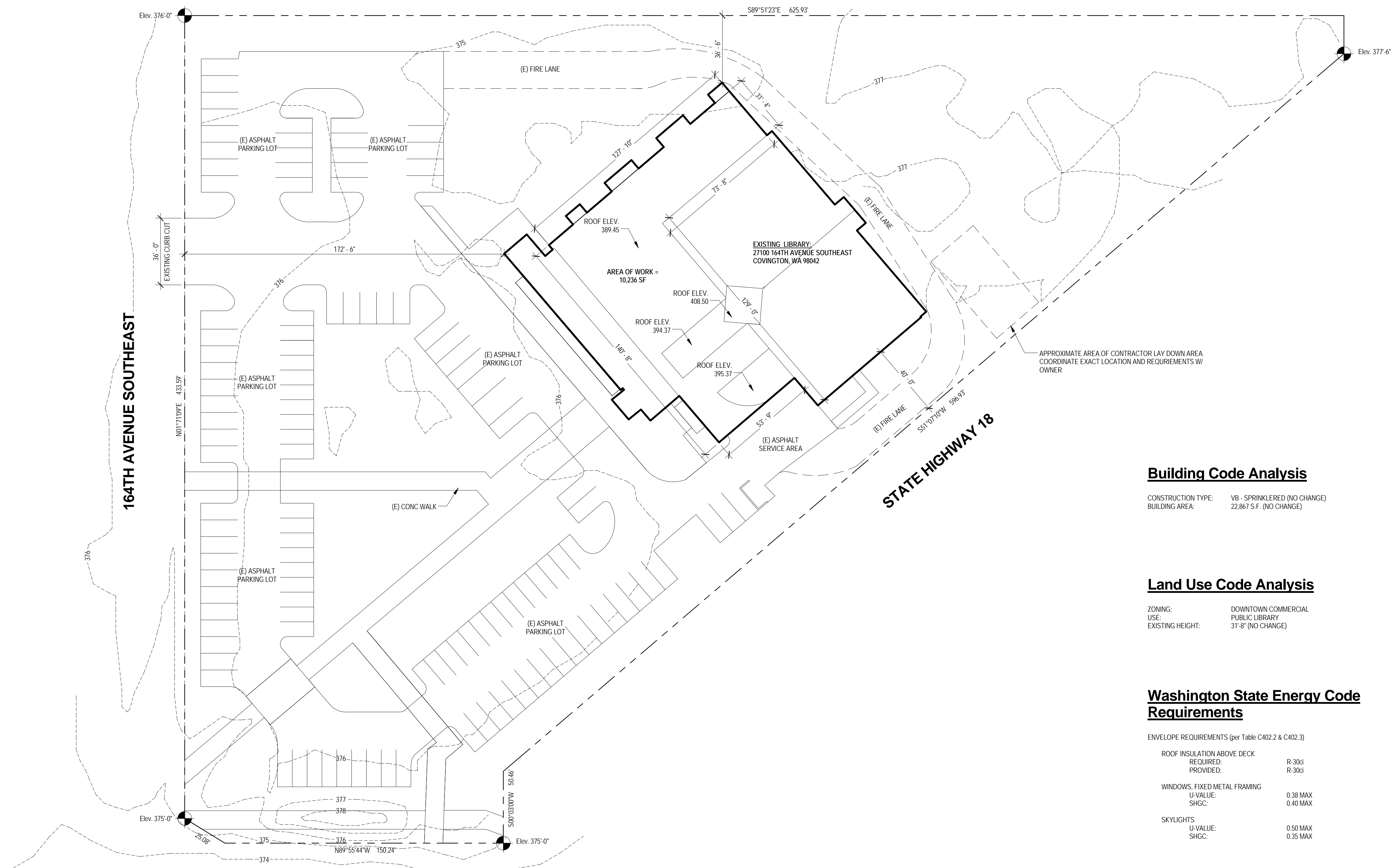
**AA1.00**

ARCHITECT'S STAMP



CONSULTANT

CONSULTANT'S STAMP



**Building Code Analysis**

CONSTRUCTION TYPE: VB - SPRINKLERED (NO CHANGE)  
BUILDING AREA: 22,867 S.F. (NO CHANGE)

**Land Use Code Analysis**

ZONING: DOWNTOWN COMMERCIAL  
USE: PUBLIC LIBRARY  
EXISTING HEIGHT: 31'-8" (NO CHANGE)

**Washington State Energy Code Requirements**

ENVELOPE REQUIREMENTS (per Table C402.2 & C402.3)

ROOF INSULATION ABOVE DECK	
REQUIRED:	R-30ci
PROVIDED:	R-30ci
WINDOWS, FIXED METAL FRAMING	
U-VALUE:	0.38 MAX
SHGC:	0.40 MAX
SKYLIGHTS	
U-VALUE:	0.50 MAX
SHGC:	0.35 MAX

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**5/10/16**

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Description	Date

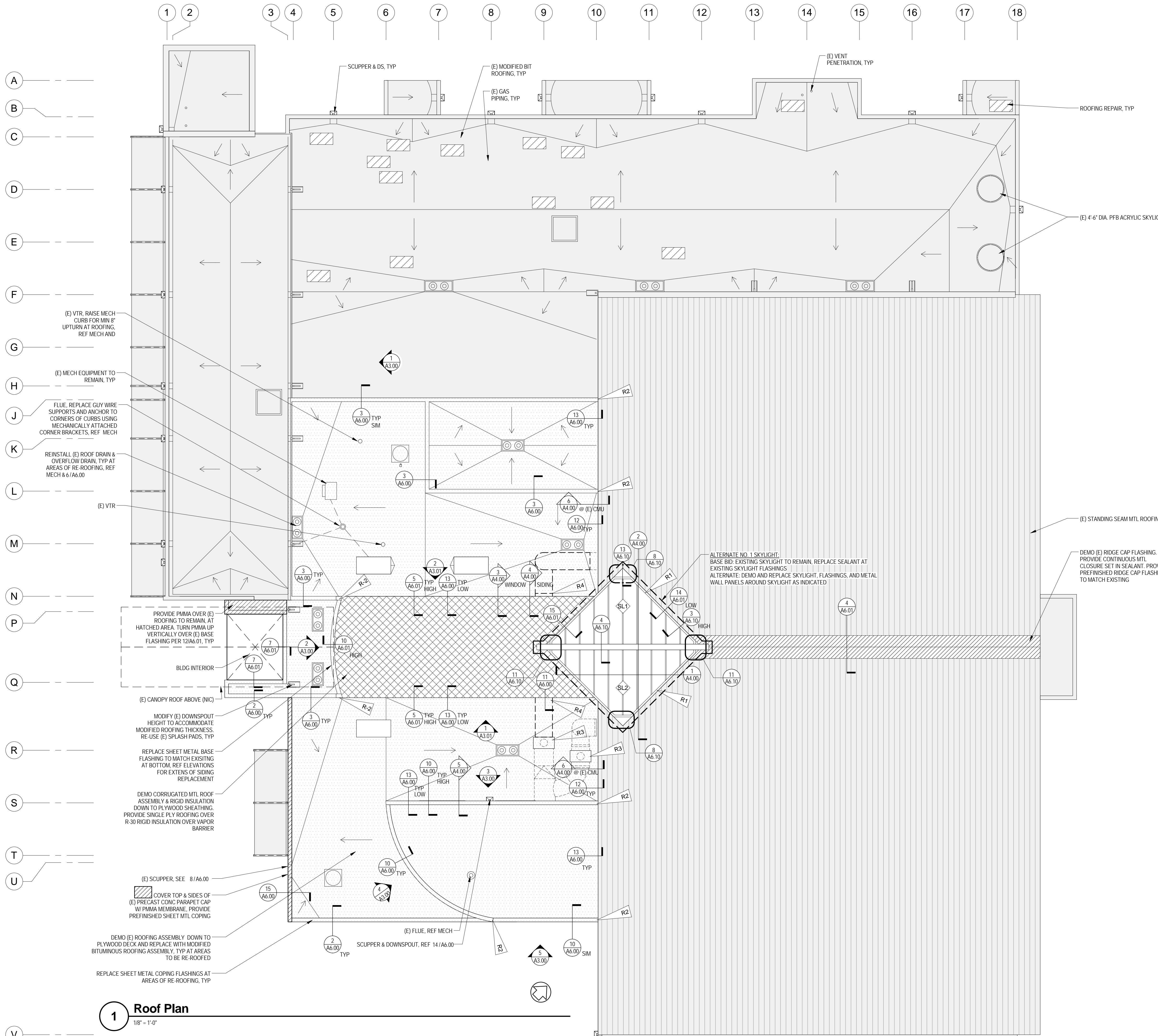
SHEET TITLE

**Site Plan**

SHEET NO.

**1 Site Plan**  
1" = 30'-0"





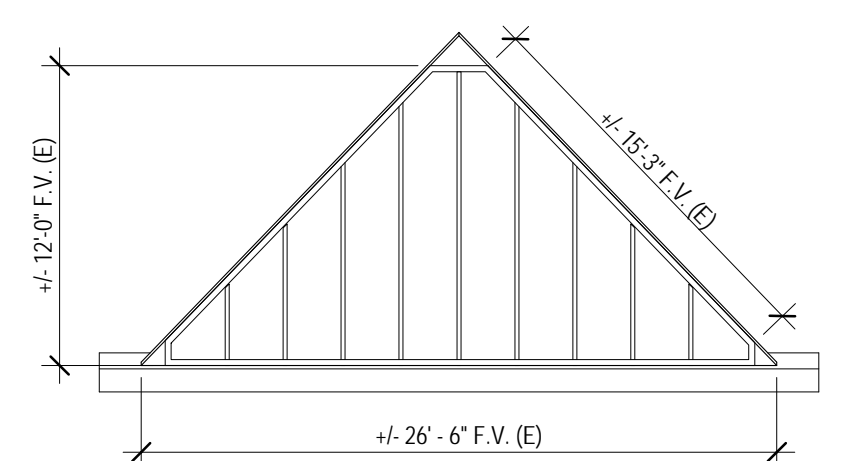
**Roof Plan Keynotes**

- R1 DEMO (E) SKYLIGHT & FLASHINGS DOWN TO (E) CURB. REPLACE PER SKYLIGHT TYPES
- R2 PROVIDE 1-PIECE SOLDERED STAINLESS STEEL BOOT FLASHING, LAP UNDER (E) WRB ASSEMBLY, REF 1/A6.00
- R3 REMOVE AND REINSTALL (E) MECH EQUIPMENT. PROVIDE GALV STEEL SUPPORT FRAMES TO MATCH (E). MODIFY OR REPLACE ROOFTOP DUCTWORK AS REQUIRED TO ACCOMMODATE THICKENED ROOFING ASSEMBLY. PROVIDE SLEEPERS PER 4/A6.00 AT SUPPORTS. REF MECH
- R4 MODIFY PROFILE OF DUCT AT PENETRATION AT WALL, REF 10/A6.00 & MECH. CUT & PATCH SHEATHING AS REQUIRED FOR INSTALLATION

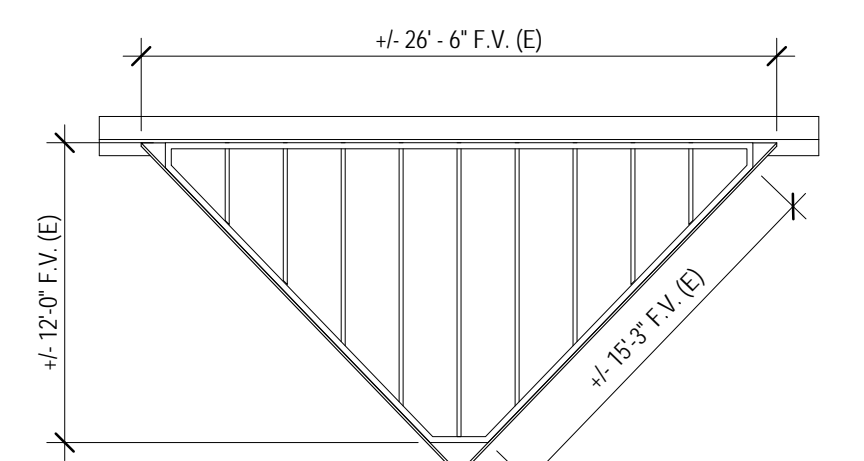
**Roof Plan Legend**

- (E) ROOFING TO REMAIN. PROVIDE PROTECTION THROUGHOUT ALL PHASES OF WORK. MAKE MODIFICATIONS TO CONFORM TO MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY.
- ROOFING REPAIR AT BLUSTERY CAPSHEET @ (E) ROOFING TO REMAIN. CUT BACK 2' X 4' AREA OF CAPSHEET, RE-ADHERE, AND PATCH WITH NEW CAPSHEET, TYP. ALLOW FOR ADDITIONAL 10% AREA THAN SHOWN ON PLANS
- (E) STANDING SEAM MTL ROOF
- DEMO (E) ROOFING ASSEMBLY TO (E) SHEATHING. PROVIDE SINGLE PLY ROOFING ASSEMBLY, REF WALL SECTION ASSEMBLIES ON A4.00
- DEMO (E) ROOFING ASSEMBLY TO (E) SHEATHING. PROVIDE MODIFIED BITUMINOUS ROOFING ASSEMBLY, REF WALL SECTION ASSEMBLIES ON A4.00

**Skylight Type Legend**



SL1 SKYLIGHT PER MFR: CRYSTALITE SERIES 30258 W/ CARDINAL 366 OR EQUIVALENT LOW-E COATING ON #2 SURFACE. CLEAR TEMPERED OUTBOARD LITE AND CLEAR LAMINATED INBOARD LITE  
U-FACTOR: 0.40  
SHGC: 0.24



SL2 SKYLIGHT PER MFR: CRYSTALITE SERIES 30258 W/ CARDINAL 366 OR EQUIVALENT LOW-E COATING ON #2 SURFACE. CLEAR TEMPERED OUTBOARD LITE AND CLEAR LAMINATED INBOARD LITE  
U-FACTOR: 0.40  
SHGC: 0.24

**1 Roof Plan**  
1/8" = 1'-0"

PHASE  
**Bid Set**

DATE  
**5/10/16**

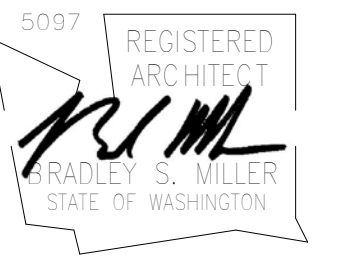
REVISIONS

Description	Date

SHEET TITLE  
**Roof Plan**

SHEET NO.

**A2.01**



**Elevation Keynotes**

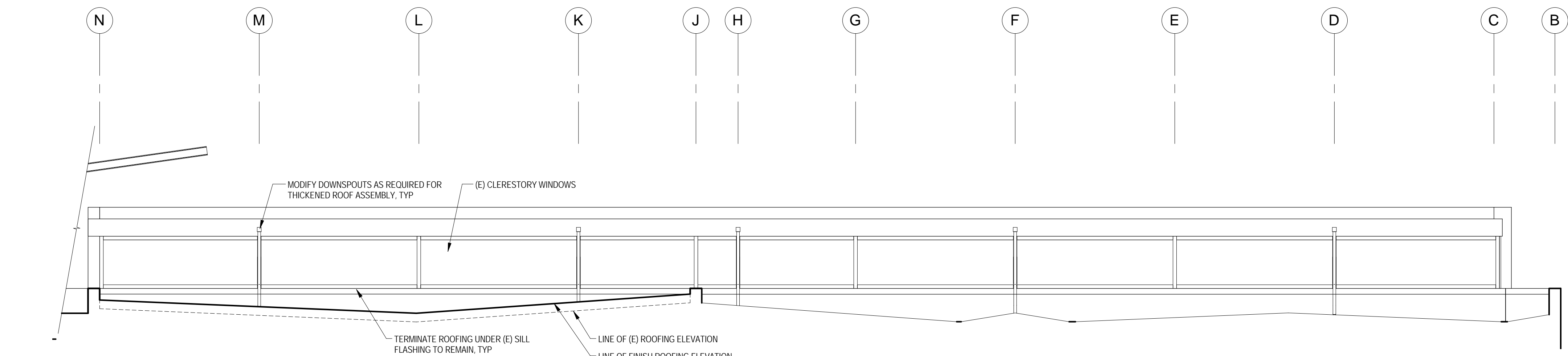
- E1 CUT BOTTOM OF MTL PANEL SIDING AND REPLACE BASE FLASHING AND CORNER FLASHING TO PROVIDE MIN 8" UPTURN AT REPLACED ROOFING
- E2 PROVIDE 1-PIECE SOLDERED STAINLESS STEEL BOOT FLASHING, LAP UNDER (E) WRB ASSEMBLY, REF 1/A6.00

**Exterior Materials Legend**

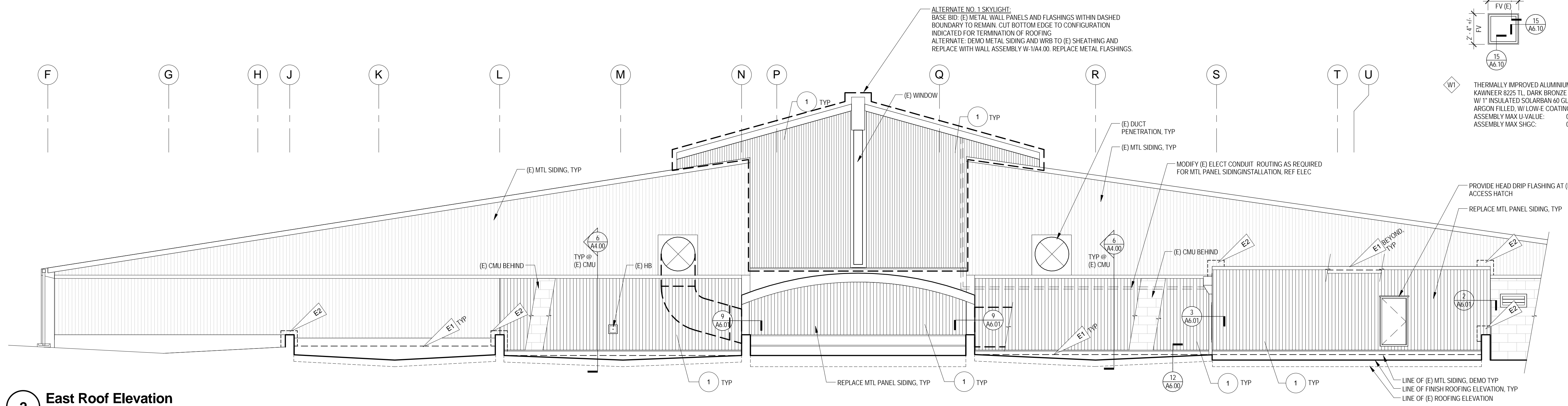
- 1 PREFINISHED MTL WALL PANEL & TYPICAL FLASHINGS: AEP SPAN 'NU-WAVE' CORRUGATED PROFILE COLOR 'PARCHMENT'
- 2 PREFINISHED MTL PANELS & TYP FLASHINGS @ SKYLIGHT: AEP SPAN COLOR 'COOL DARK BRONZE'

**Window Type Legend**

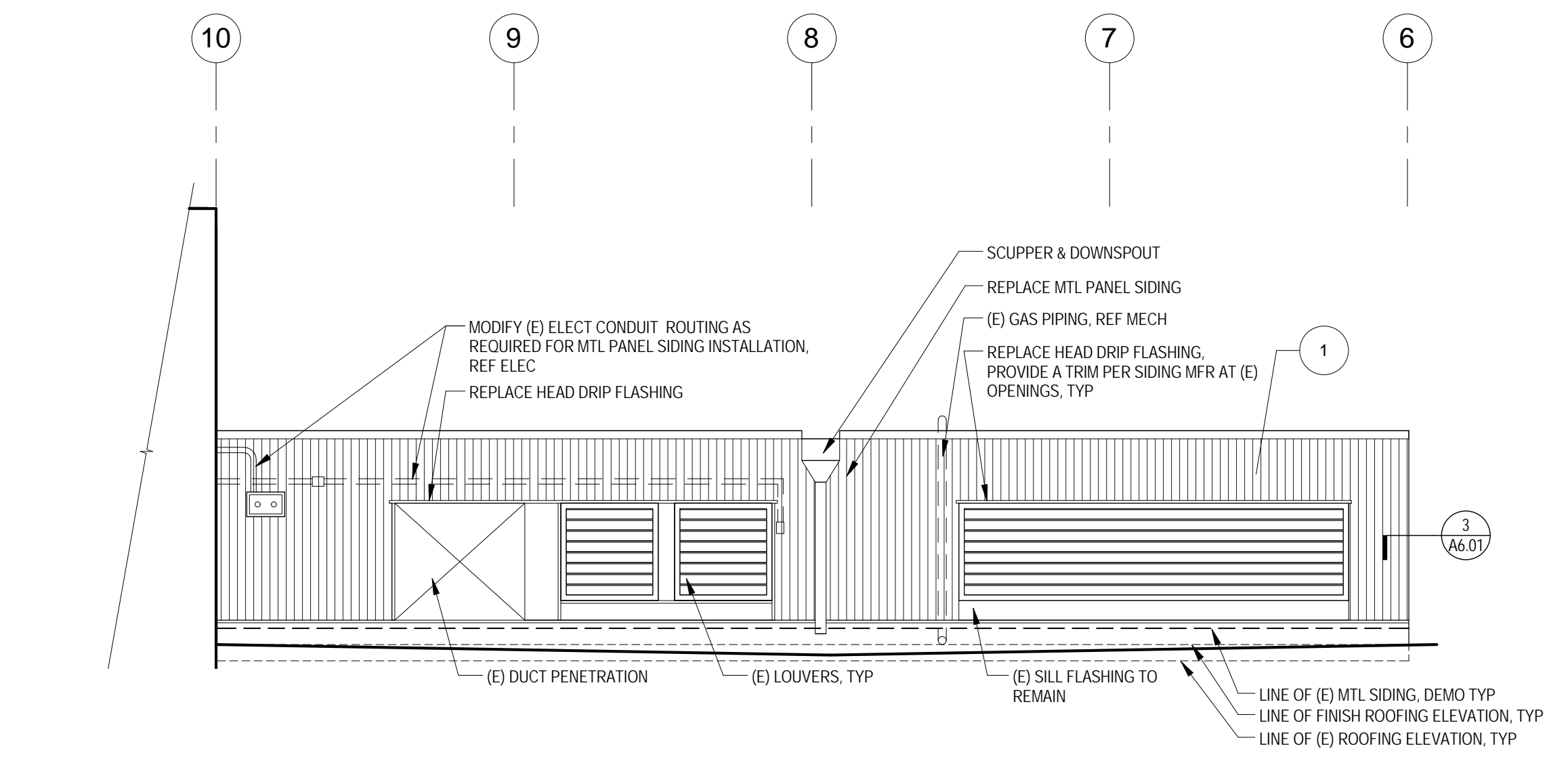
- 10 A6.10
- 15 A6.10
- 15 A6.10
- WT THERMALLY IMPROVED ALUMINUM WINDOW: KAWNEER 825 TL, DARK BRONZE ANODIZED, W/ 1" INSULATED SOLARBAN 60 GLAZING UNIT, ARGON FILLED, W/ LOW-E COATING. ASSEMBLY MAX U-VALUE: 0.36. ASSEMBLY MAX SHGC: 0.33



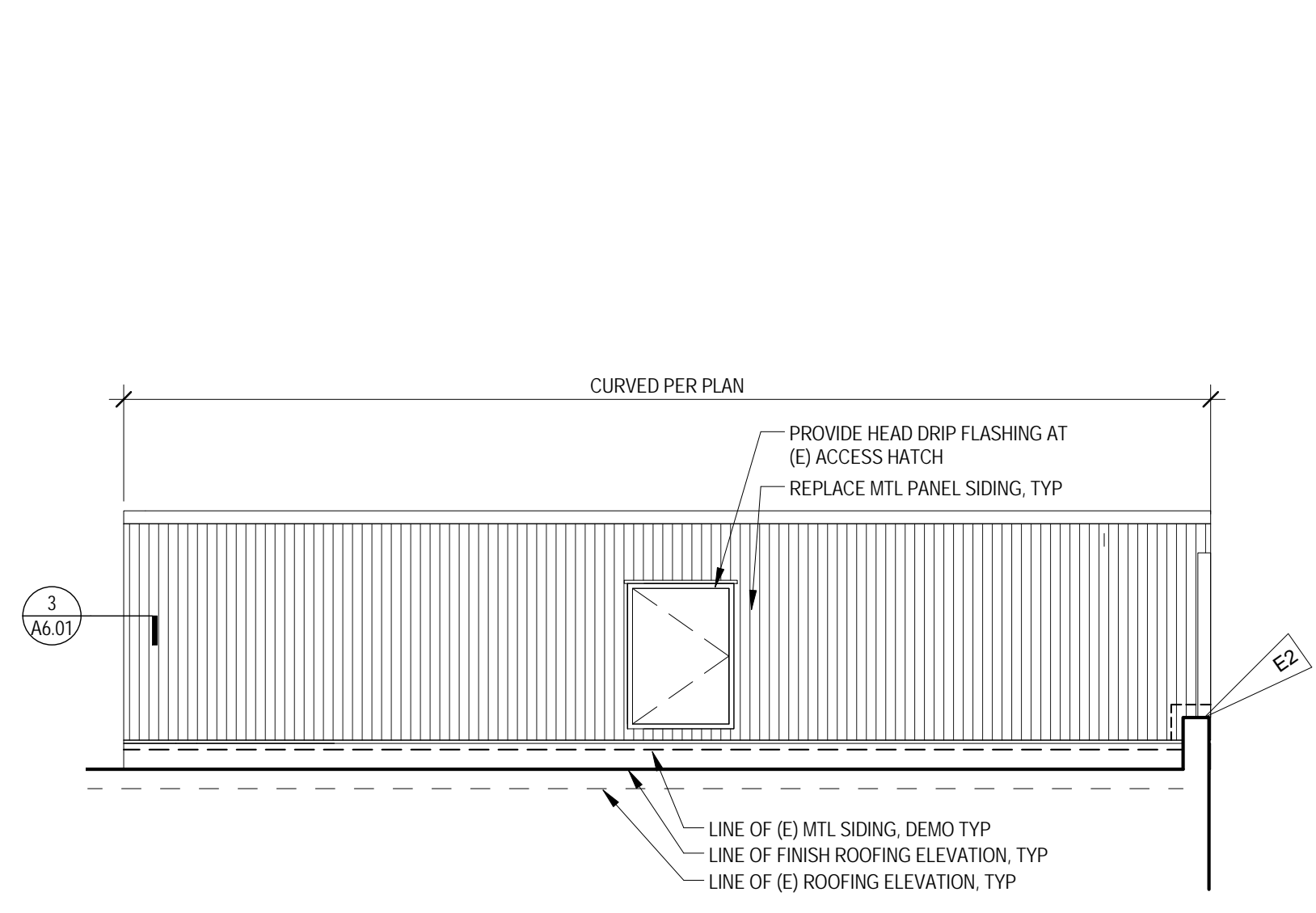
**1 West Clerestory Elevation**  
1/4" = 1'-0"



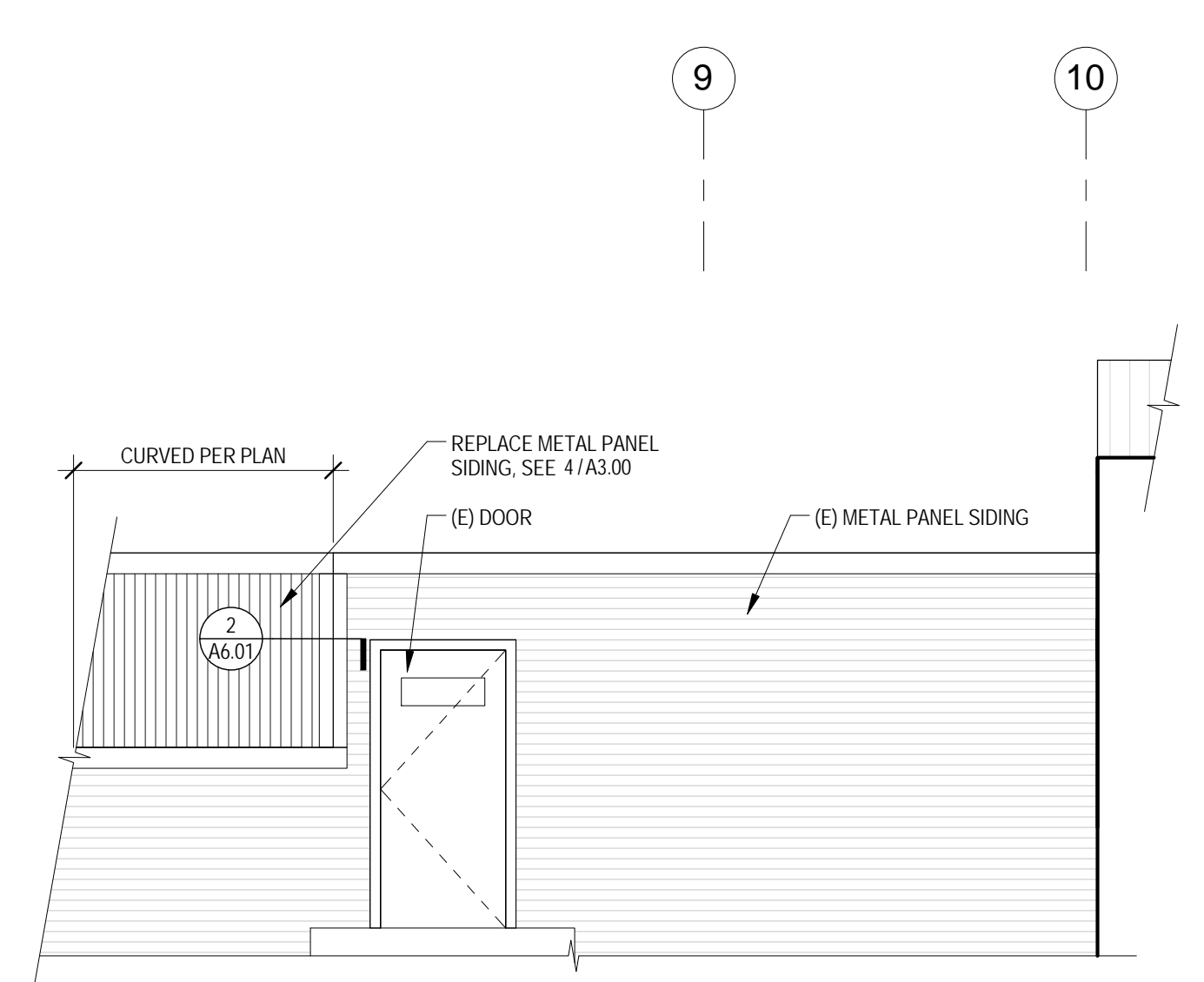
**2 East Roof Elevation**  
1/4" = 1'-0"



**3 South Elevation at Mech. Room**  
1/4" = 1'-0"



**4 Roof Elevation at Hatch/ Access Door**  
1/4" = 1'-0"



**5 Elevation at Stair Door**  
1/4" = 1'-0"

PHASE

**Bid Set**

DATE

**5/10/16**

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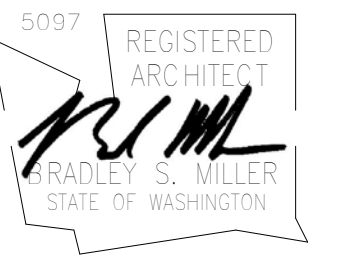
Description	Date

SHEET TITLE

**Exterior Roof Elevations**

SHEET NO.

**A3.00**



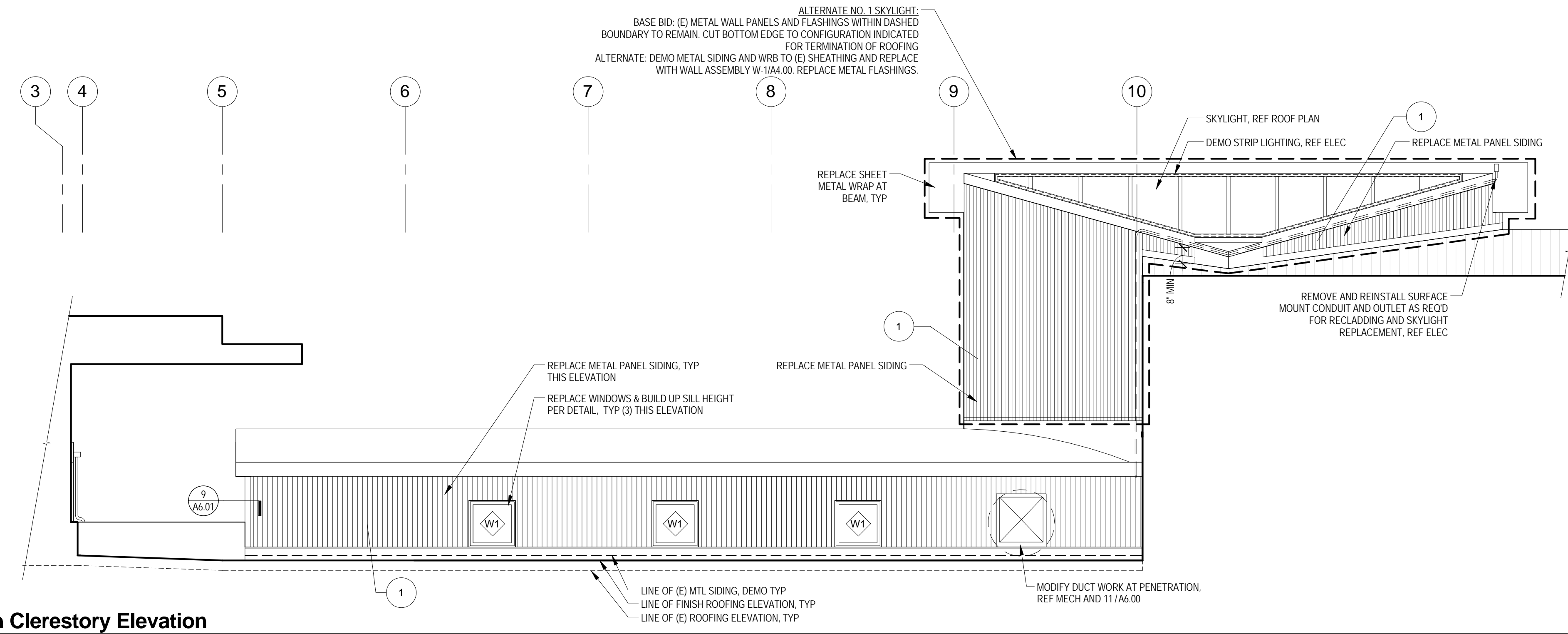
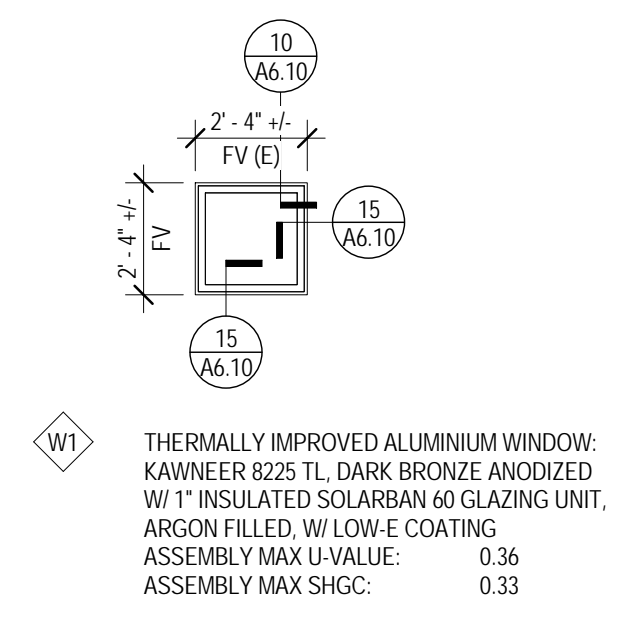
**Elevation Keynotes**

- E1 CUT BOTTOM OF MTL PANEL SIDING AND REPLACE BASE FLASHING AND CORNER FLASHING TO PROVIDE MIN 8" UPTURN AT REPLACED ROOFING
- E2 PROVIDE 1-PIECE SOLDERED STAINLESS STEEL BOOT FLASHING. LAP UNDER (E) WRB ASSEMBLY. REF 1/A6.00

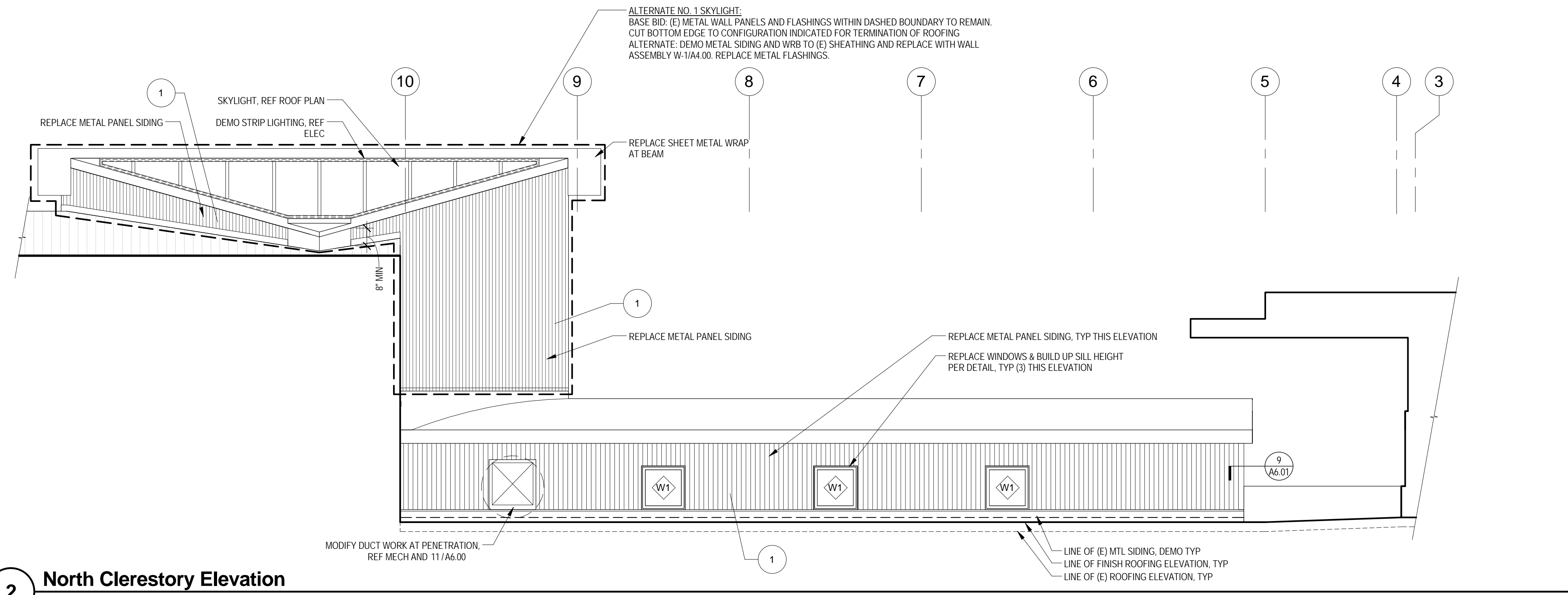
**Exterior Materials Legend**

- 1 PREFINISHED MTL WALL PANEL & TYPICAL FLASHINGS: AEP SPAN 'NU-WAVE' CORRUGATED PROFILE COLOR 'PARMENT'
- 2 PREFINISHED MTL PANELS & TYP FLASHINGS @ SKYLIGHT: AEP SPAN COLOR 'COOL DARK BRONZE'

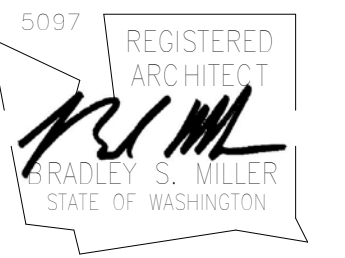
**Window Type Legend**



**1 South Clerestory Elevation**  
1/4" = 1'-0"

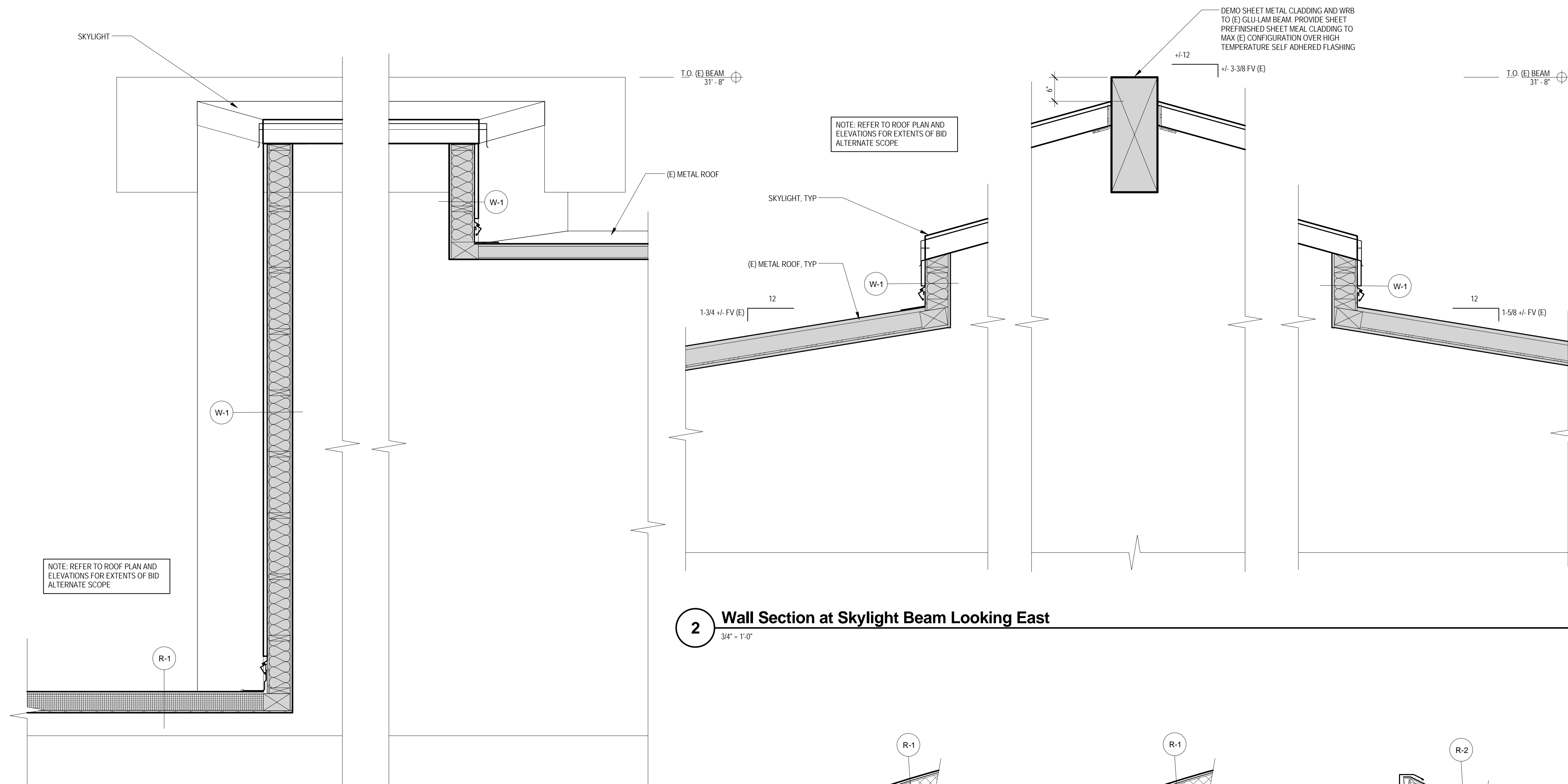


**2 North Clerestory Elevation**  
1/4" = 1'-0"



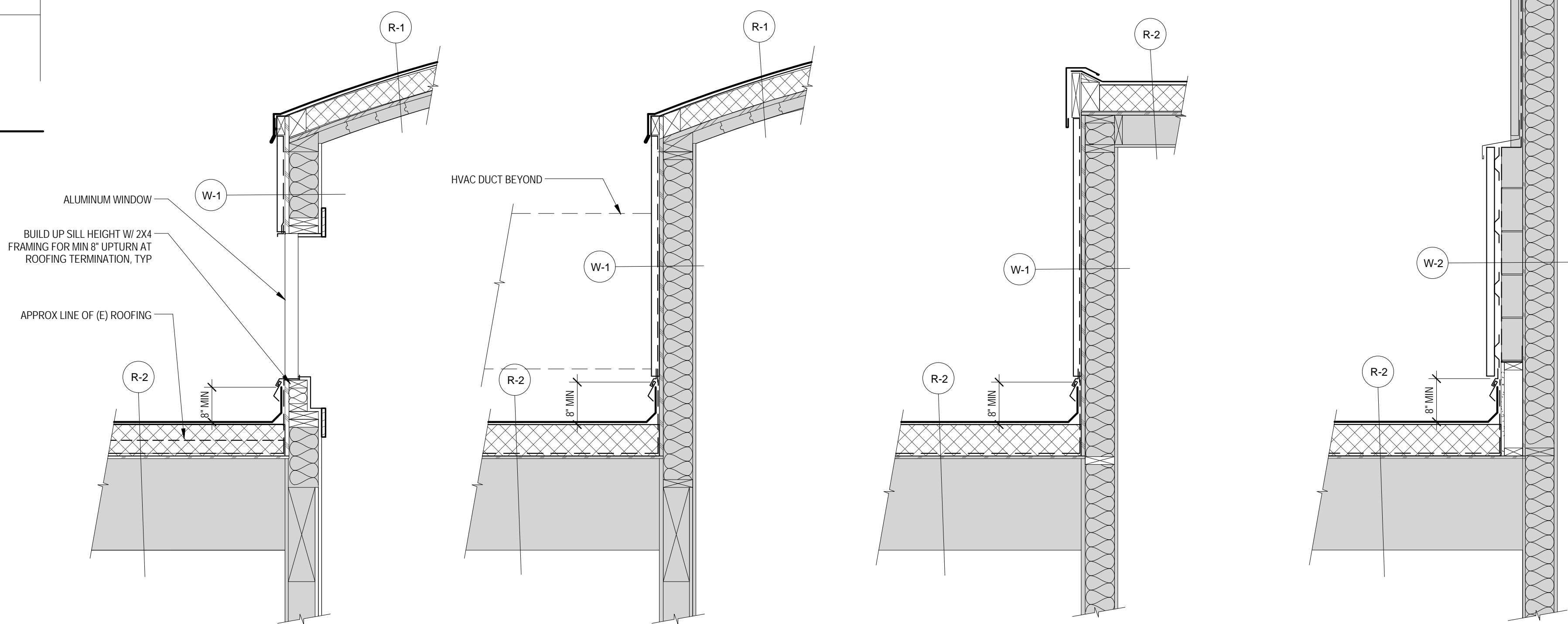
**Roof & Wall Section Assembly Key Notes**

- R-1** SINGLE PLY ROOFING ASSEMBLY:  
DEMO (E) METAL ROOFING, INSULATION, AND VAPOR BARRIER DOWN TO (E) PLYWOOD SHEATHING. PROVIDE SINGLE PLY ROOFING ASSEMBLY OVER COVERBOARD OVER R-30 MIN RIGID INSULATION OVER TEMPORARY ROOF/VAPOR RETARDER OVER EXISTING PLYWOOD SHEATHING OVER EXISTING FRAMING
- R-2** MODIFIED BITUMINOUS ROOFING ASSEMBLY:  
DEMO (E) ROOFING, INSULATION, AND VAPOR BARRIER DOWN TO (E) PLYWOOD SHEATHING. MODIFIED BITUMEN ROOF ASSEMBLY OVER COVERBOARD OVER R-30 MIN RIGID INSULATION W/ TAPERED INSULATION TO SLOPE AND CRICKETS AS INDICATED OVER TEMPORARY ROOF/VAPOR RETARDER OVER EXISTING PLYWOOD SHEATHING
- W-1** METAL PANEL SIDING AT EXISTING FRAMED WALLS:  
DEMO EXISTING METAL PANEL SIDING AND WEATHER RESISTIVE BARRIER BACK TO SHEATHING PROVIDE PREFINISHED METAL PANEL SIDING OVER WEATHER RESISTIVE BARRIER OVER EXISTING PLYWOOD SHEATHING OVER EXISTING FRAMING W/ BATT INSULATION AND GWB
- W-2** METAL PANEL SIDING AT EXISTING CMU:  
METAL PANEL SIDING OVER 7/8" GALVANIZED STEEL FURRING CHANNELS, SPACED PER SIDING MANUFACTURER'S REQUIREMENTS OVER WEATHER RESISTIVE BARRIER OVER EXISTING CMU VENEER, WRB, SHEATHING, AND FRAMING



**2** Wall Section at Skylight Beam Looking East  
3/4" = 1'-0"

**1** Wall Section at Skylight Looking North  
3/4" = 1'-0"



**3** Wall Section at Clerestory Window  
3/4" = 1'-0"

**4** Wall Section at Mtl Siding  
3/4" = 1'-0"

**5** Wall Section at Mech Penthouse  
3/4" = 1'-0"

**6** Wall Section at Mtl Siding Over (E) CMU  
3/4" = 1'-0"

PHASE

**Bid Set**

DATE

**5/10/16**

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Description	Date

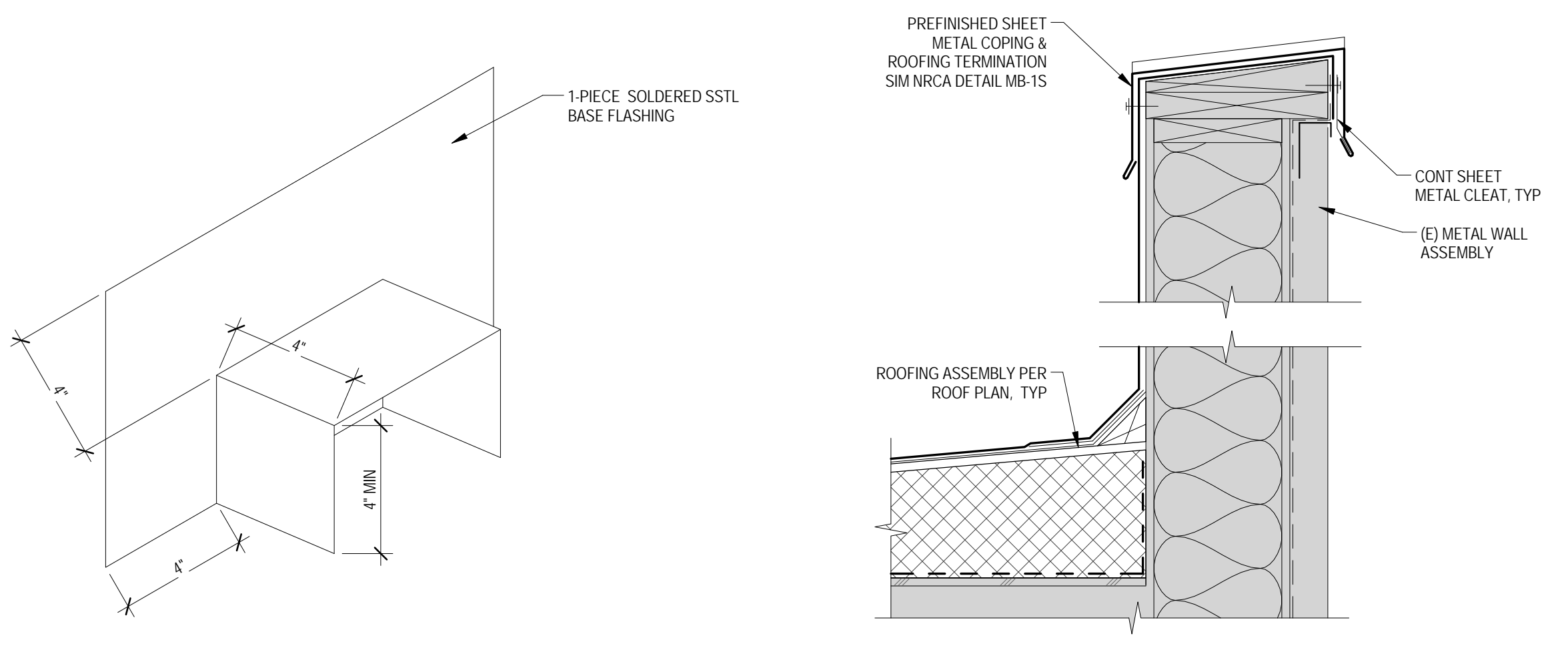
SHEET TITLE  
**Wall Sections**

SHEET NO.

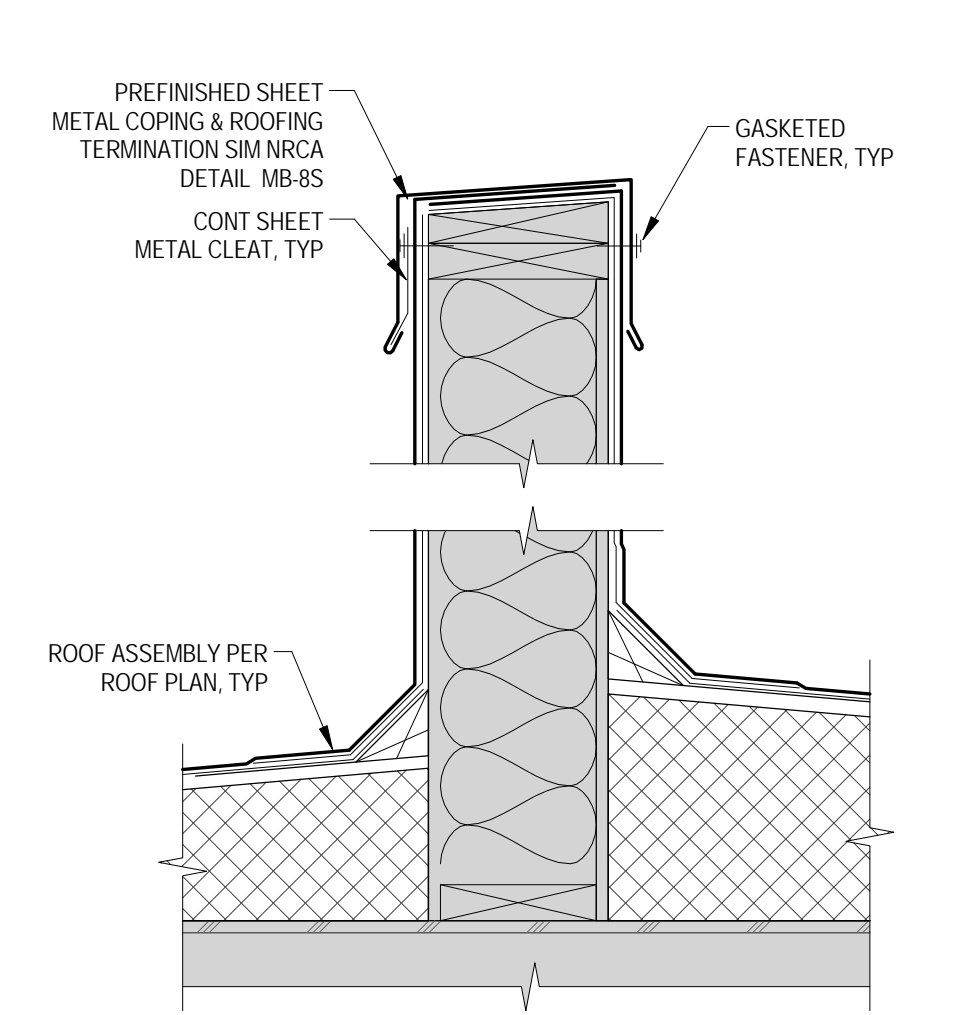
**A4.00**



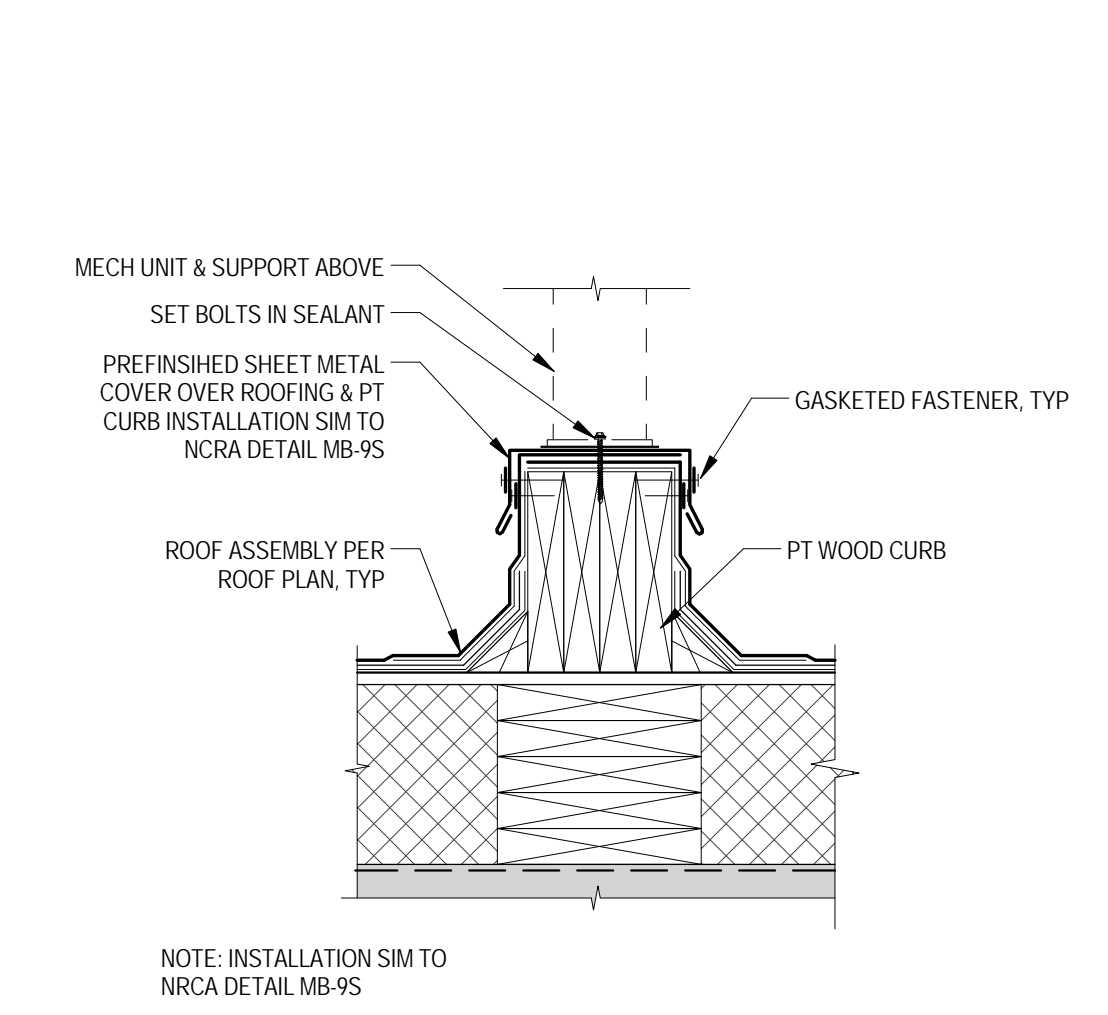
Description	Date



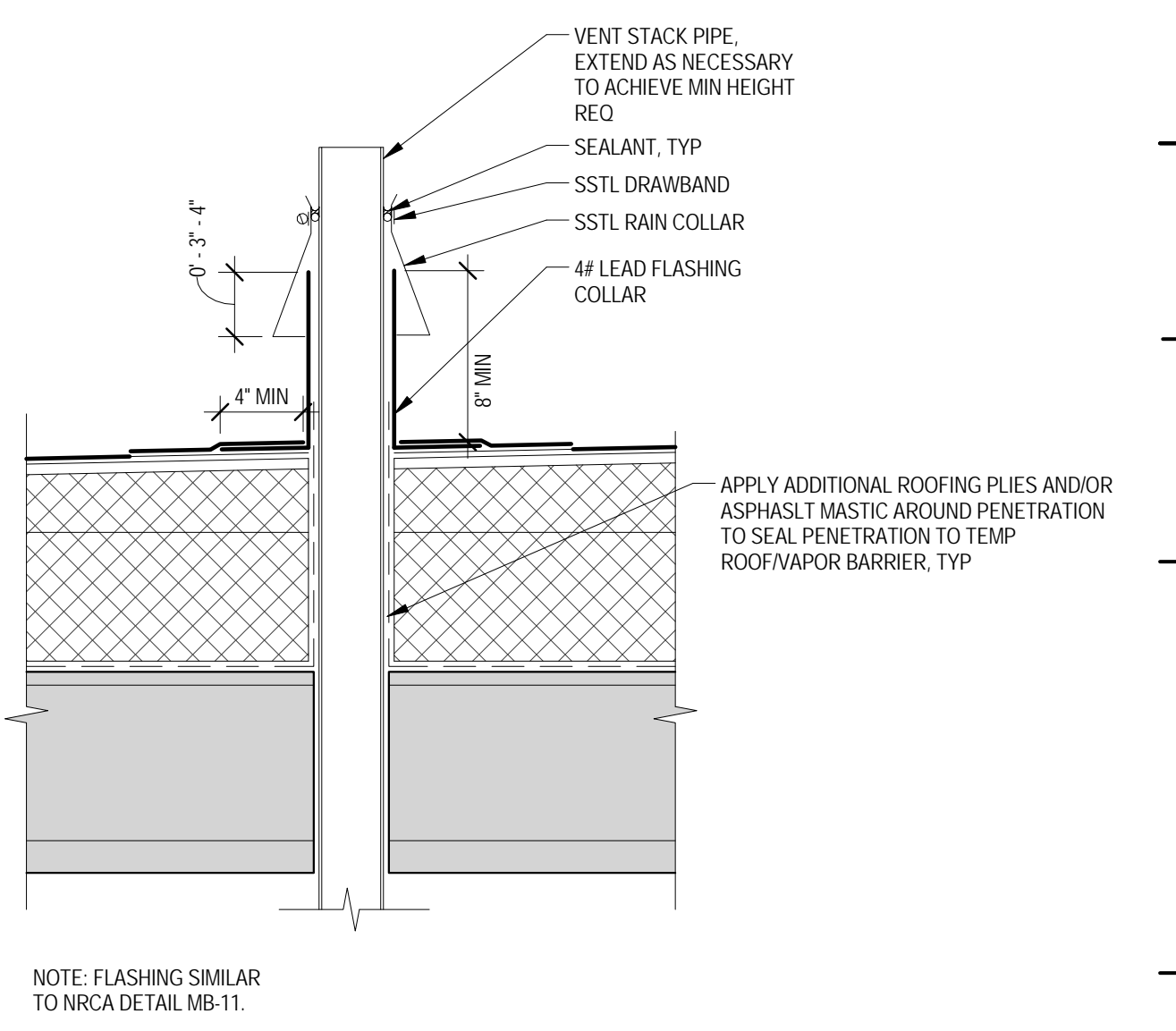
**1 Typical Saddle Flashing**  
3' = 1'-0"



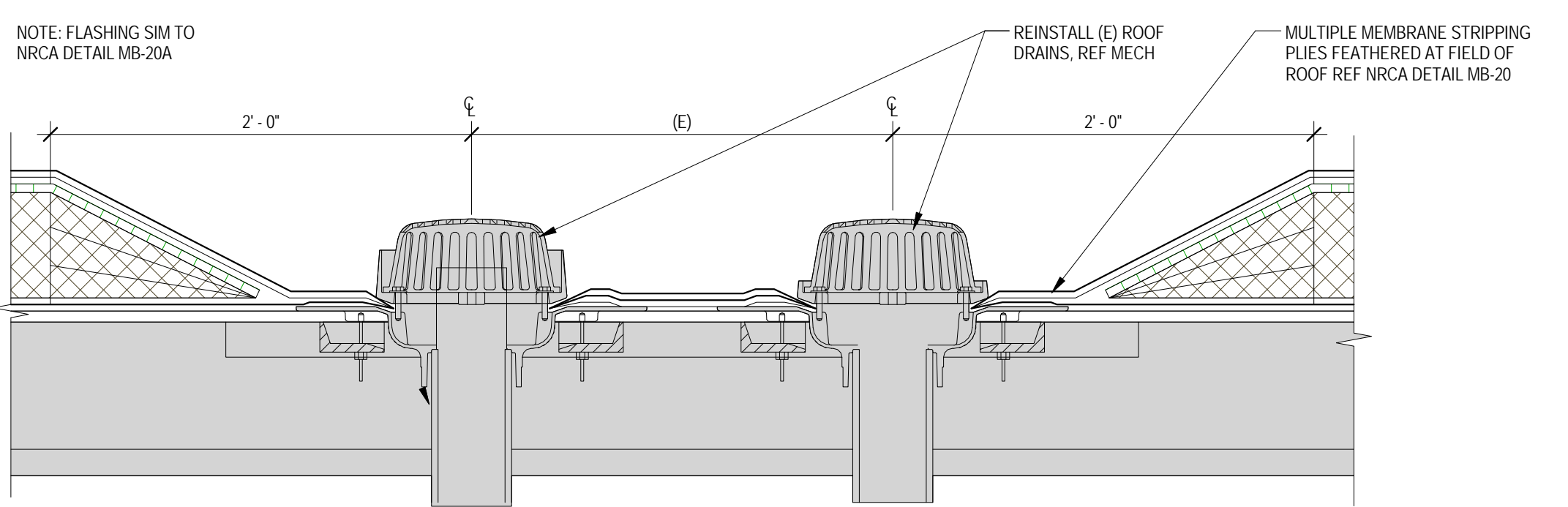
**2 Typical Coping Detail**  
1 1/2' = 1'-0"



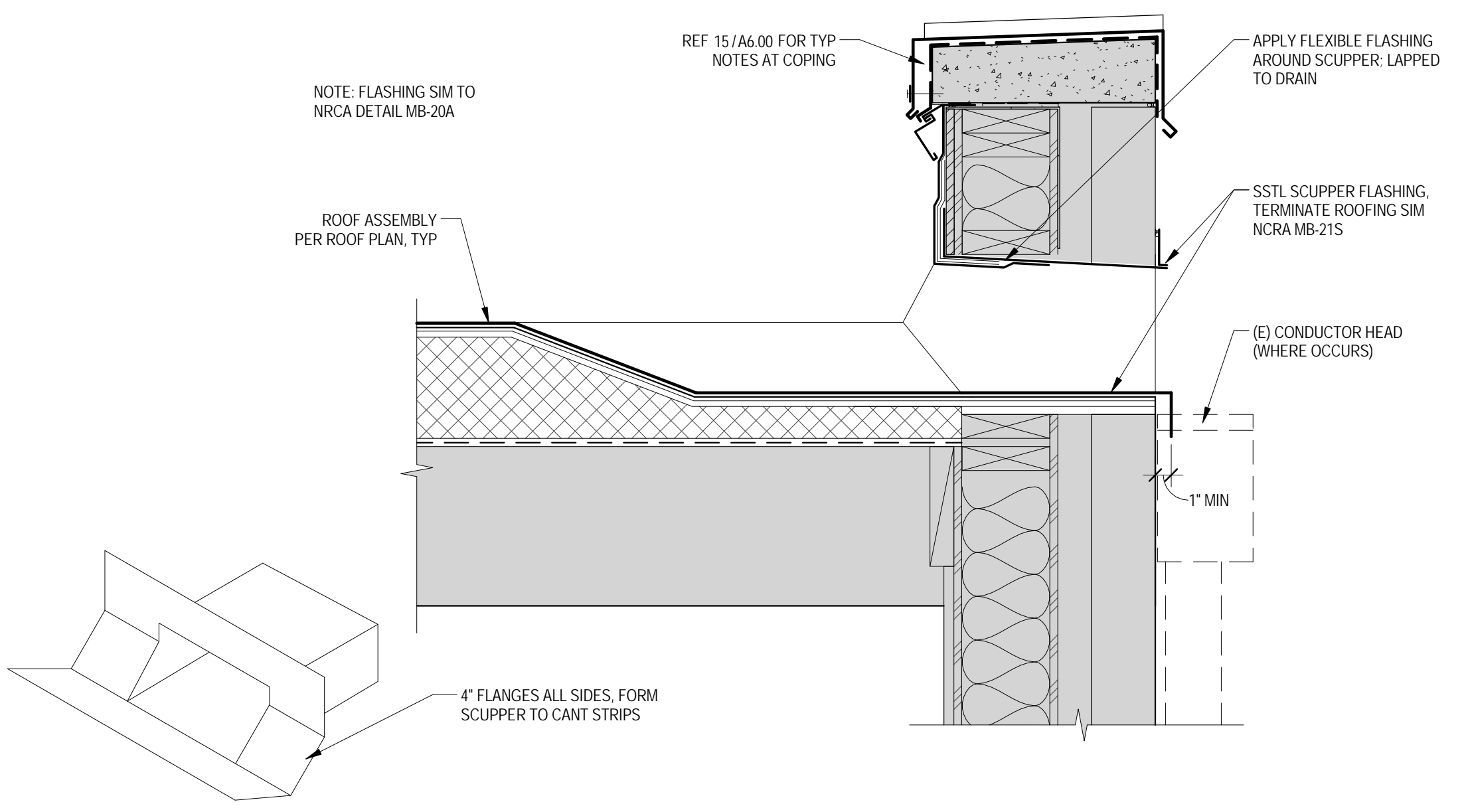
**3 Typical Mechanical Equipment Sleepers**  
1 1/2' = 1'-0"



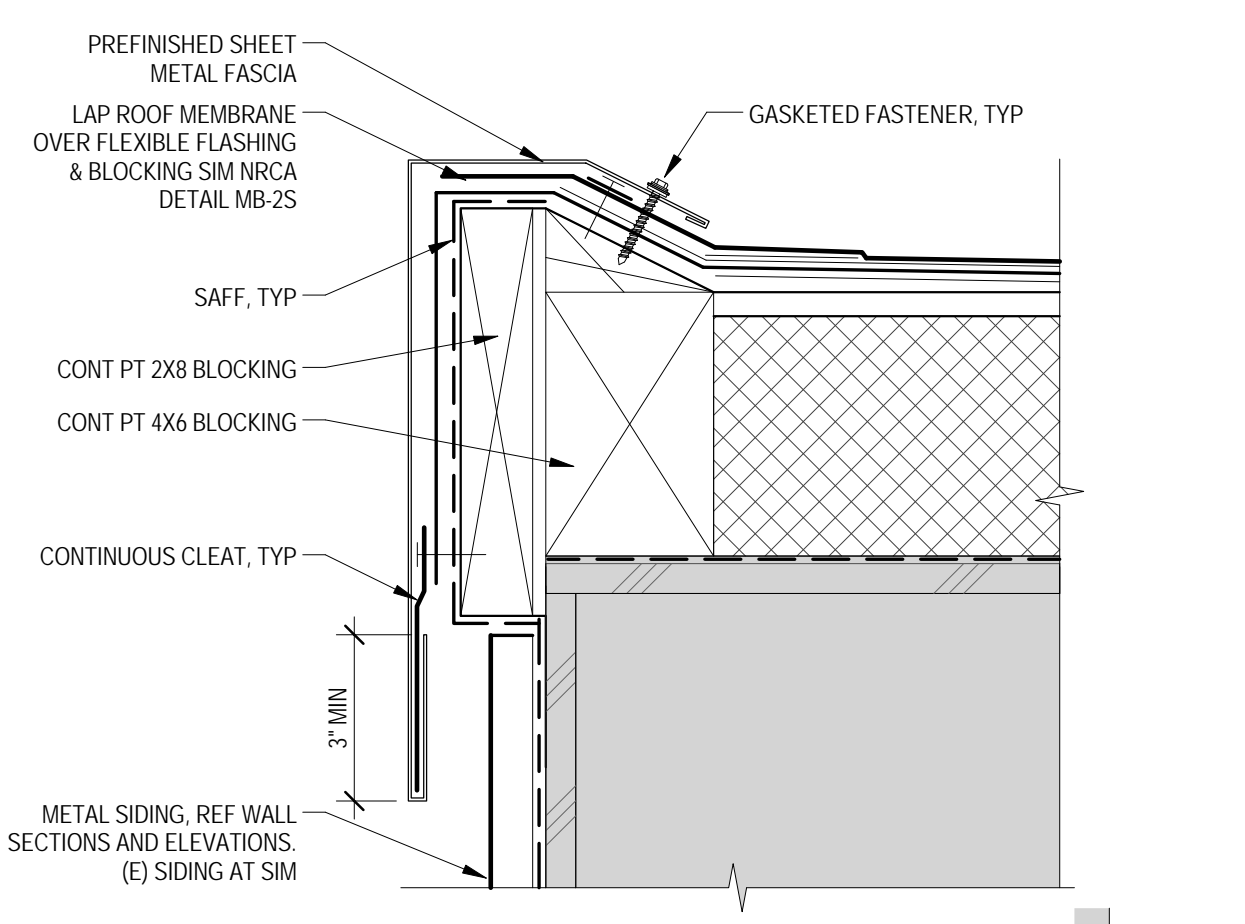
**4 Typical Penetration Detail**  
1 1/2' = 1'-0"



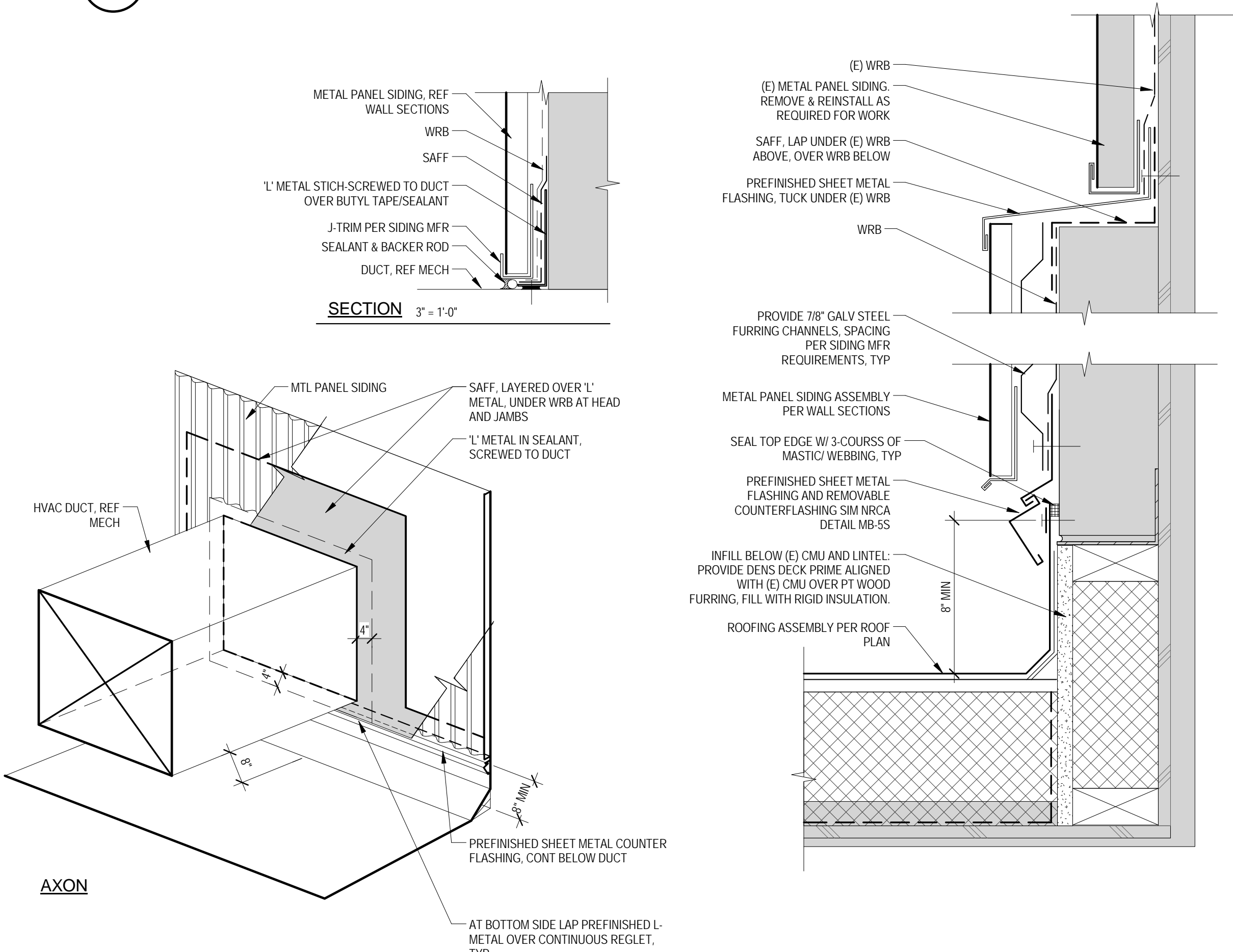
**5 Roof Drain & Overflow, Typ.**  
1 1/2' = 1'-0"



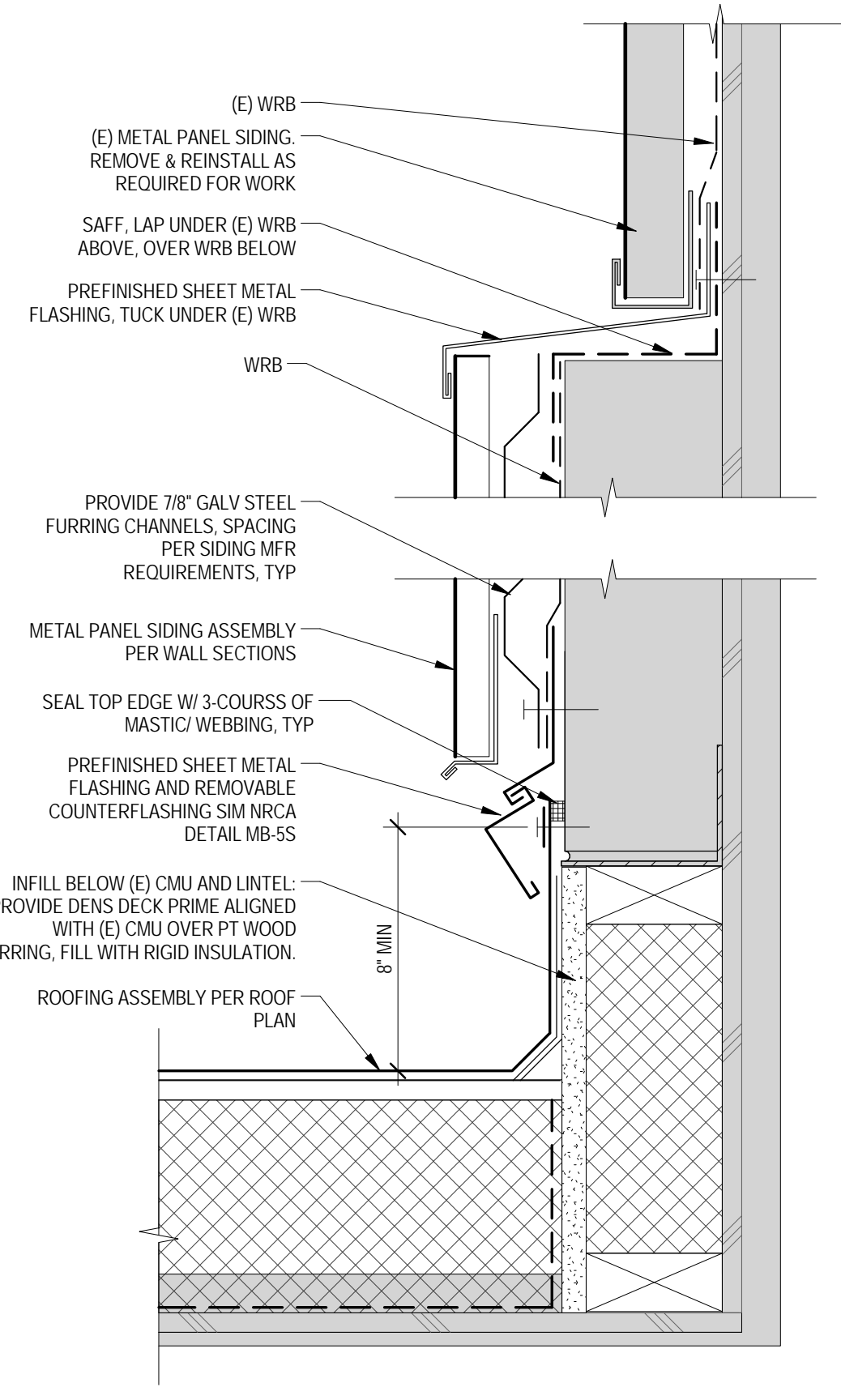
**6 Overflow Scupper, Typ.**  
1 1/2' = 1'-0"



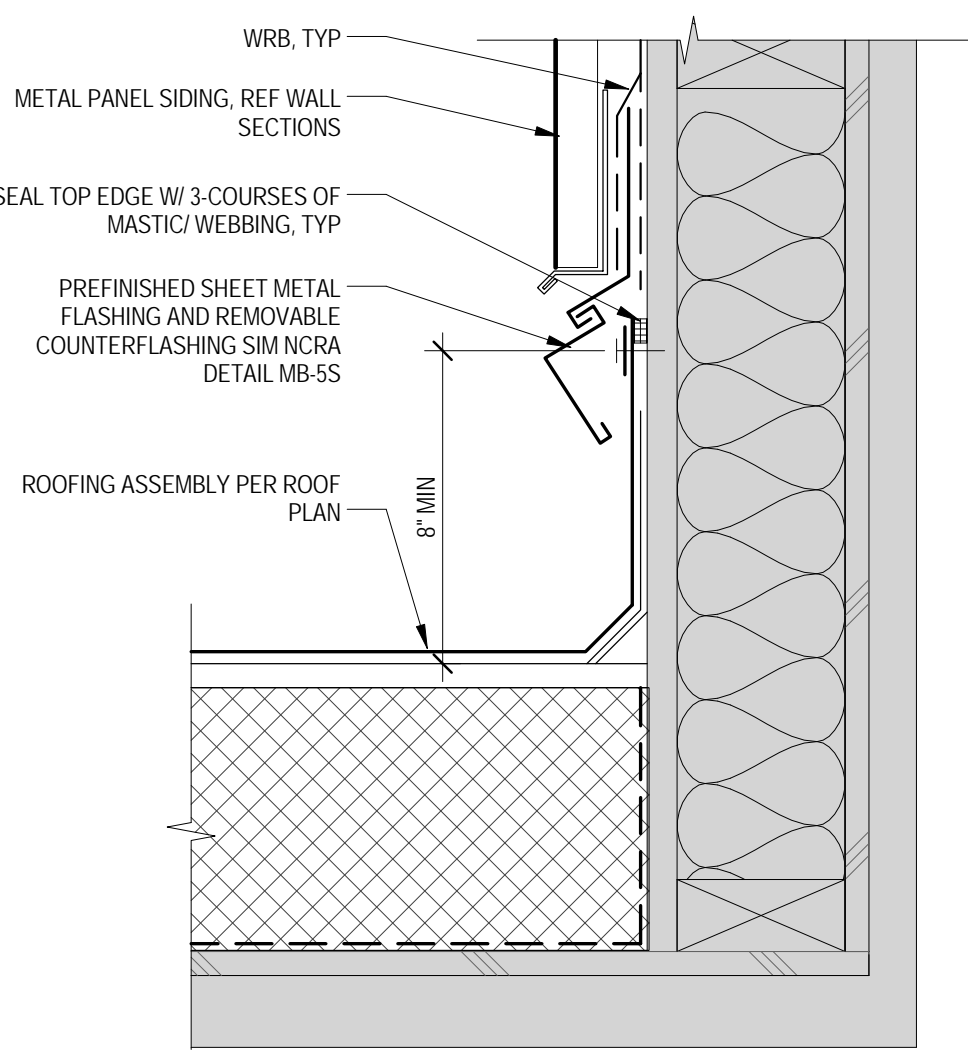
**7 Roof Overhang Edge Detail**  
3' = 1'-0"



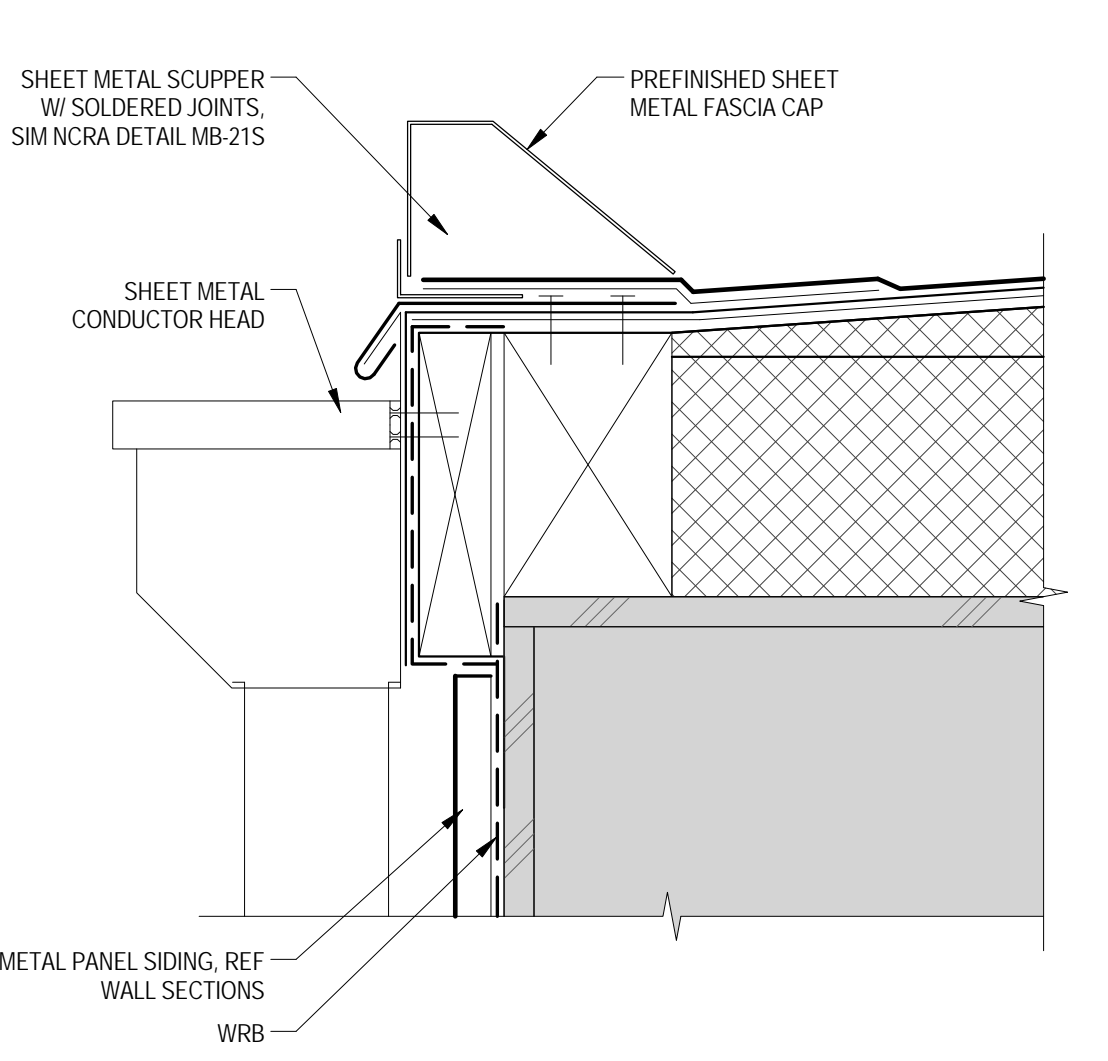
**8 Duct Penetration**  
1/2' = 1'-0"



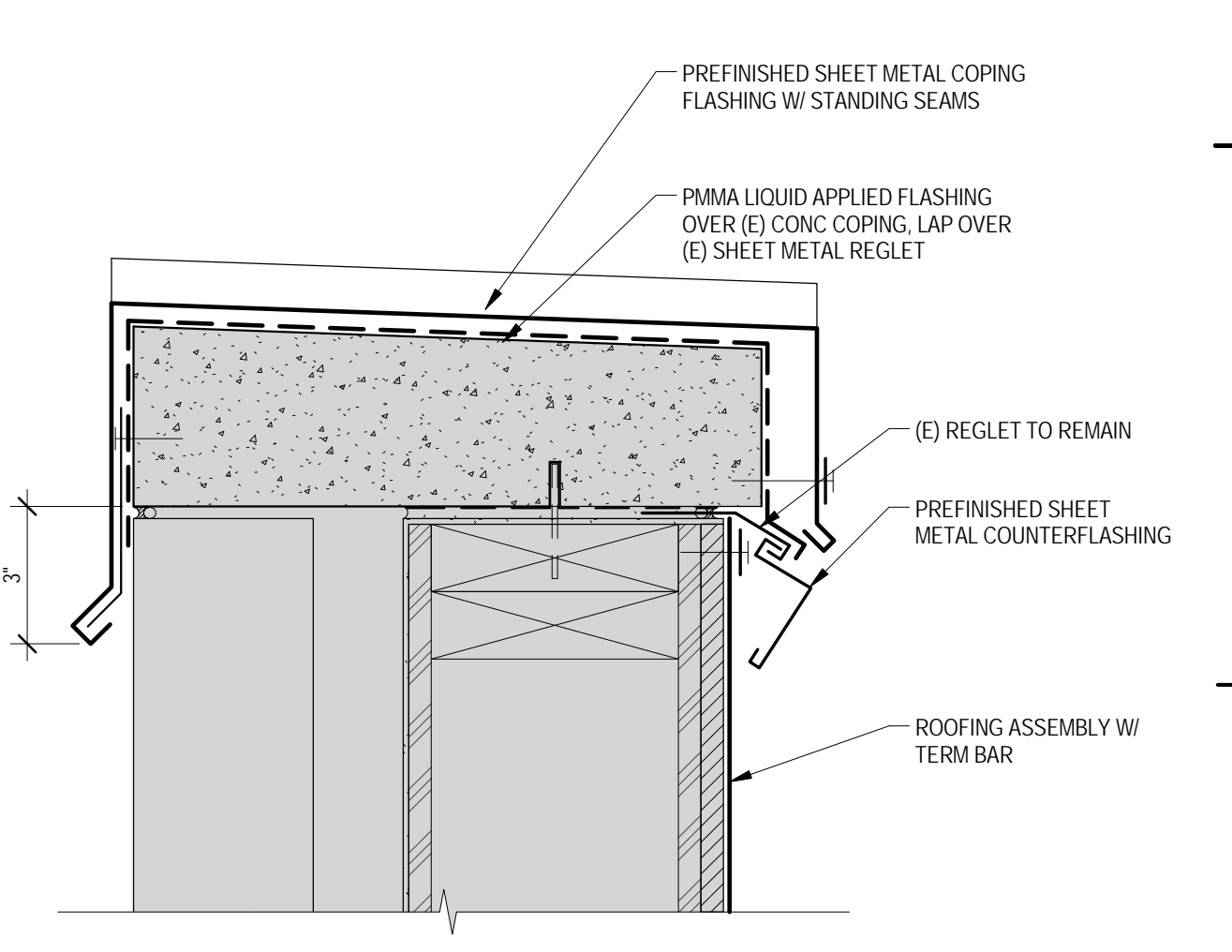
**9 Mtl Siding and Flashing at (E) CMU**  
3' = 1'-0"



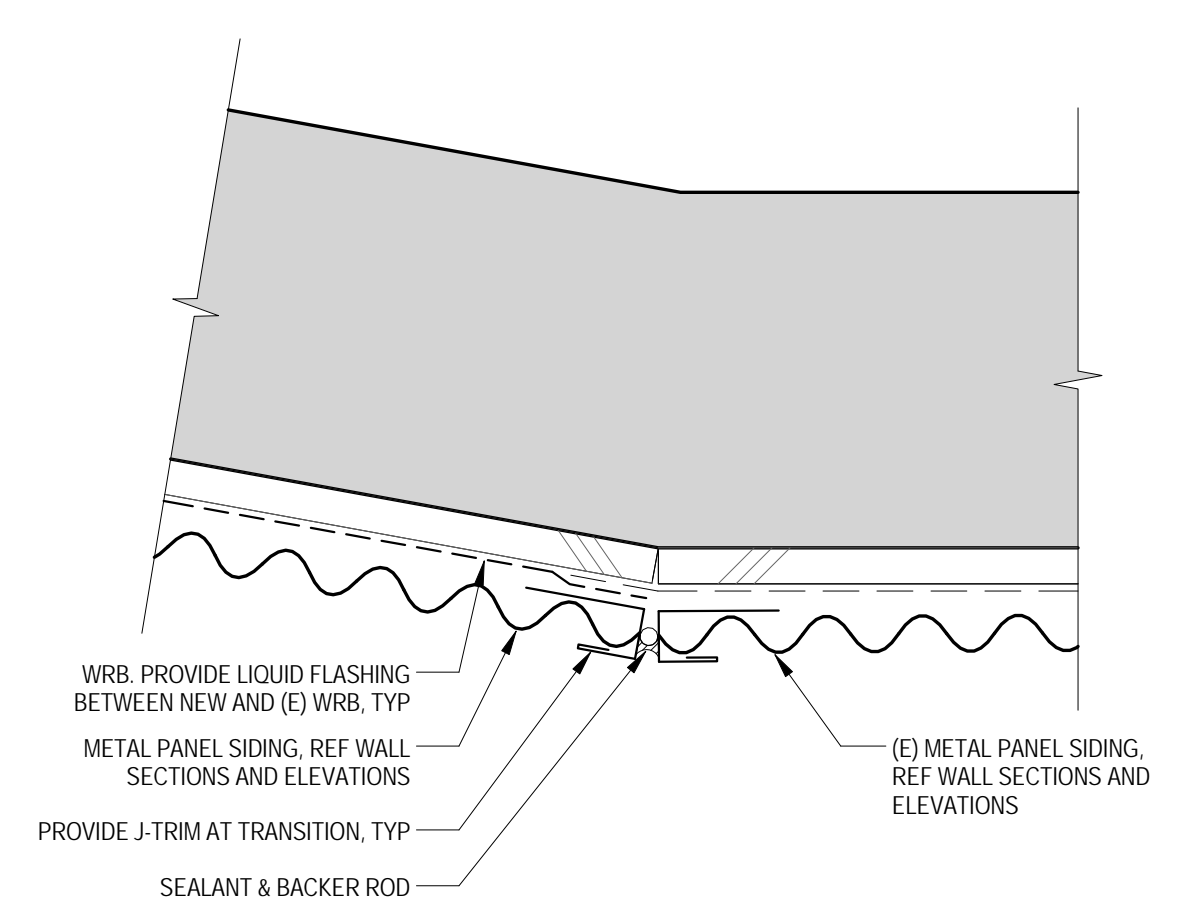
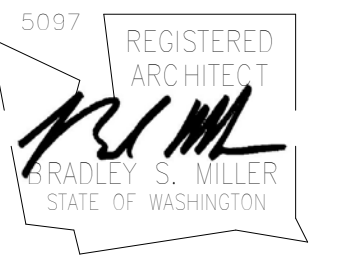
**10 Typical Base Flashing at Modified Bit**  
3' = 1'-0"



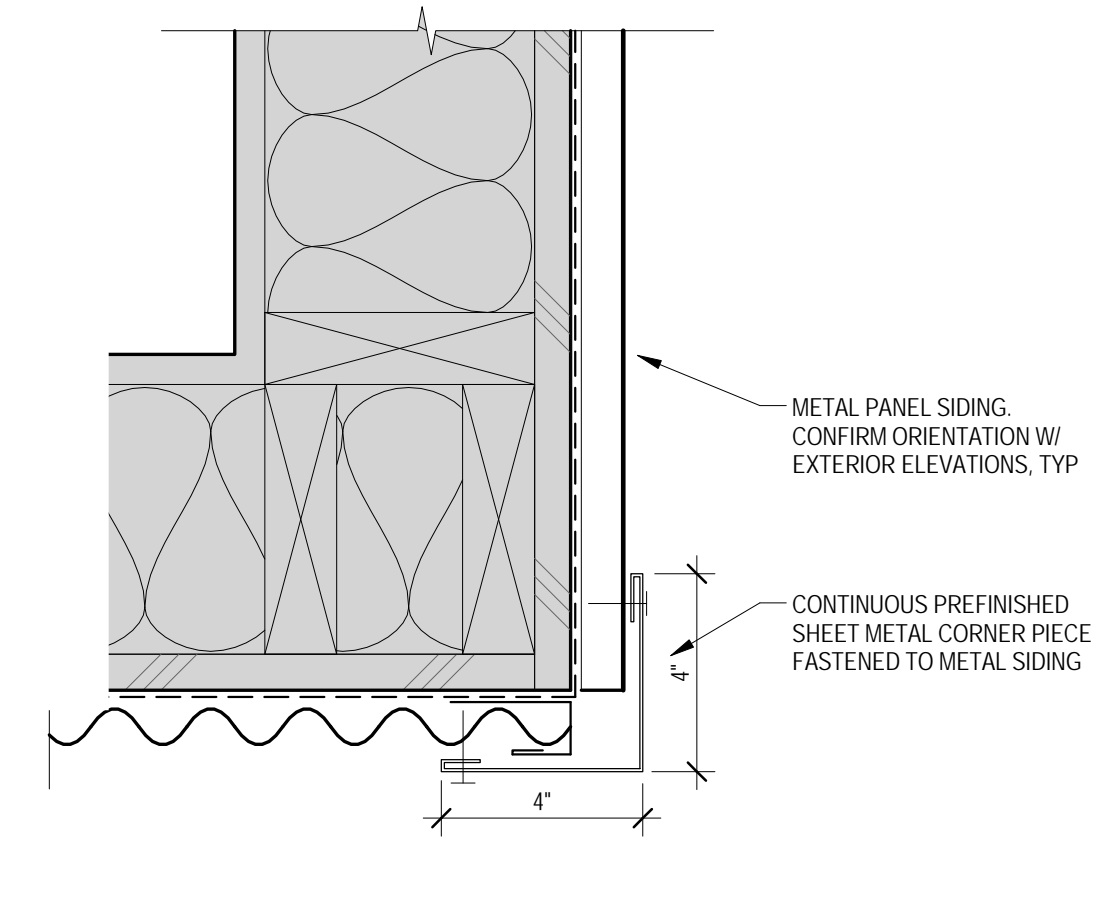
**11 Scupper through Raised Perimeter Edge**  
3' = 1'-0"



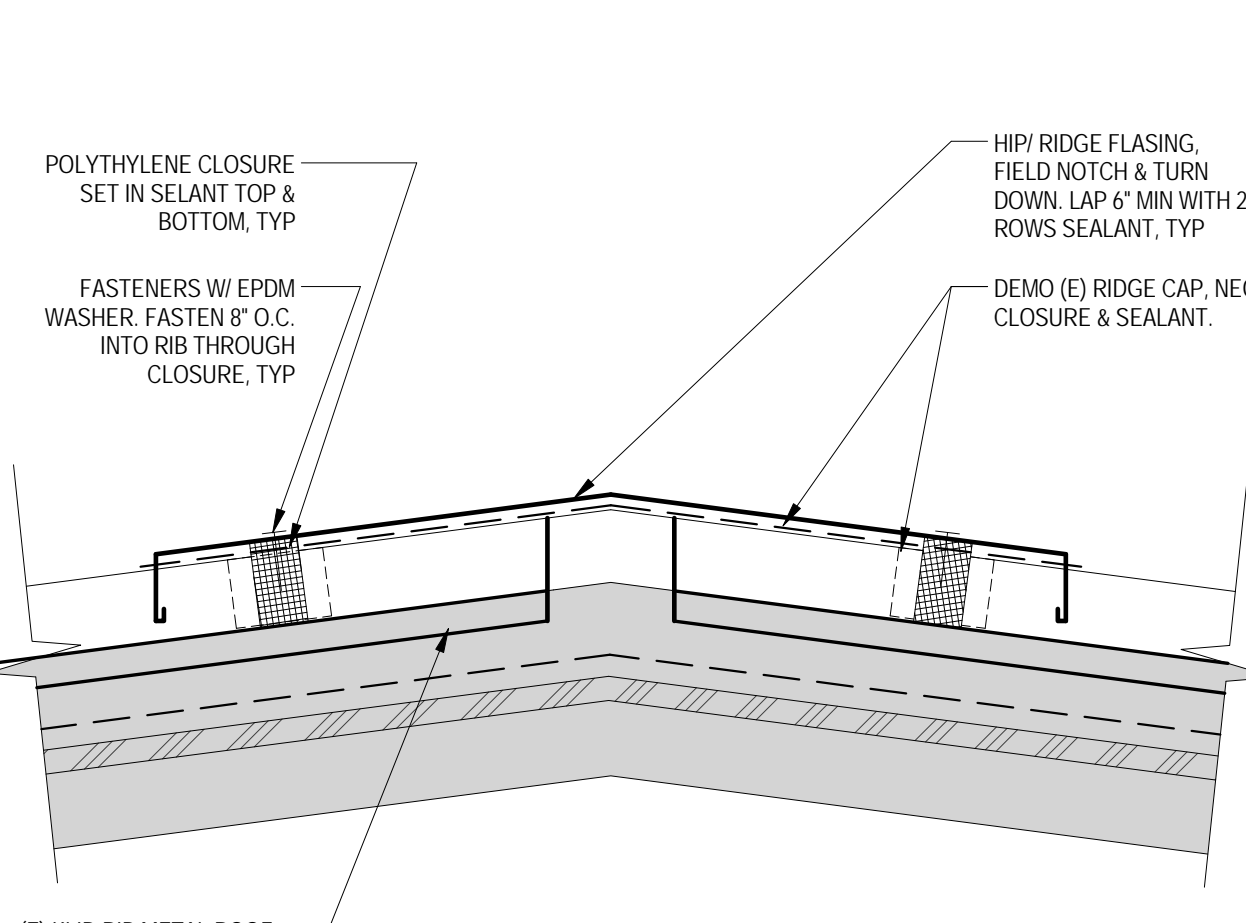
**12 Flashing at (E) Concrete Coping**  
3' = 1'-0"



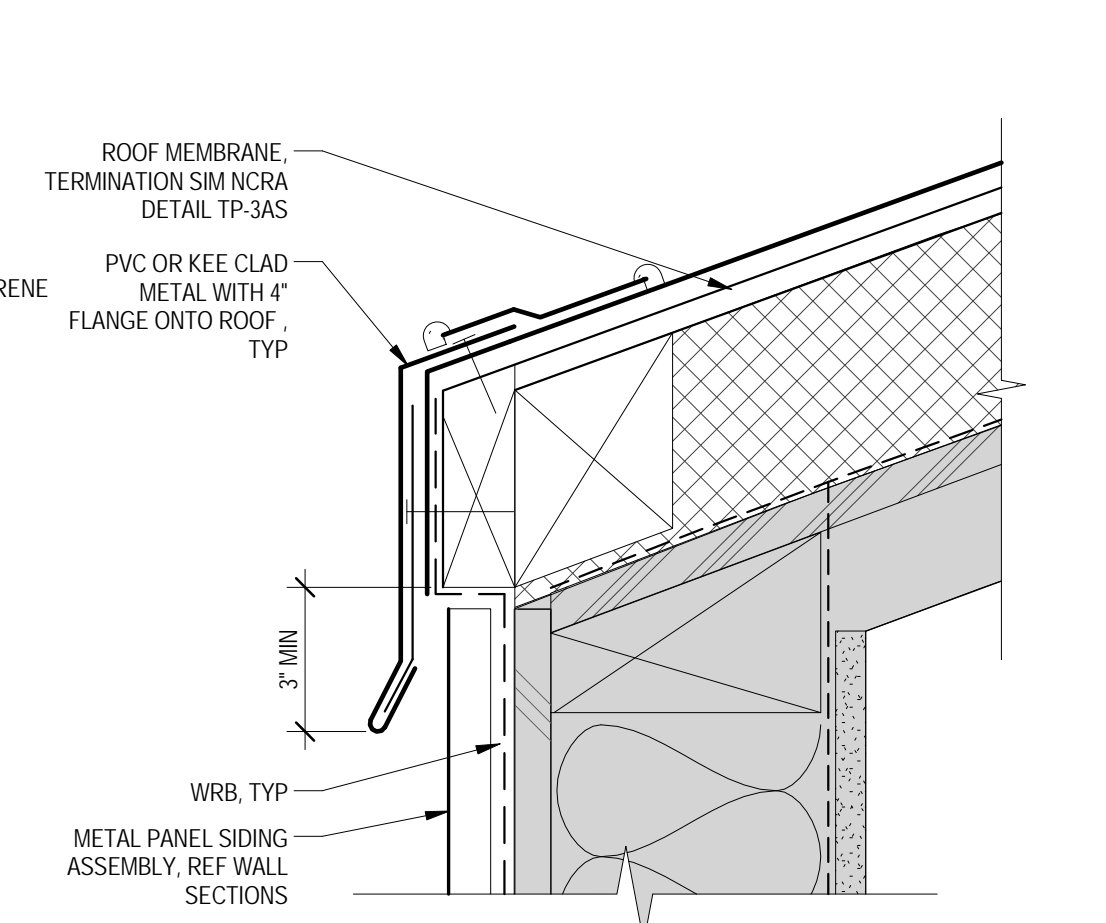
**2 Metal Panel Siding Transition**  
3' - 1'-0"



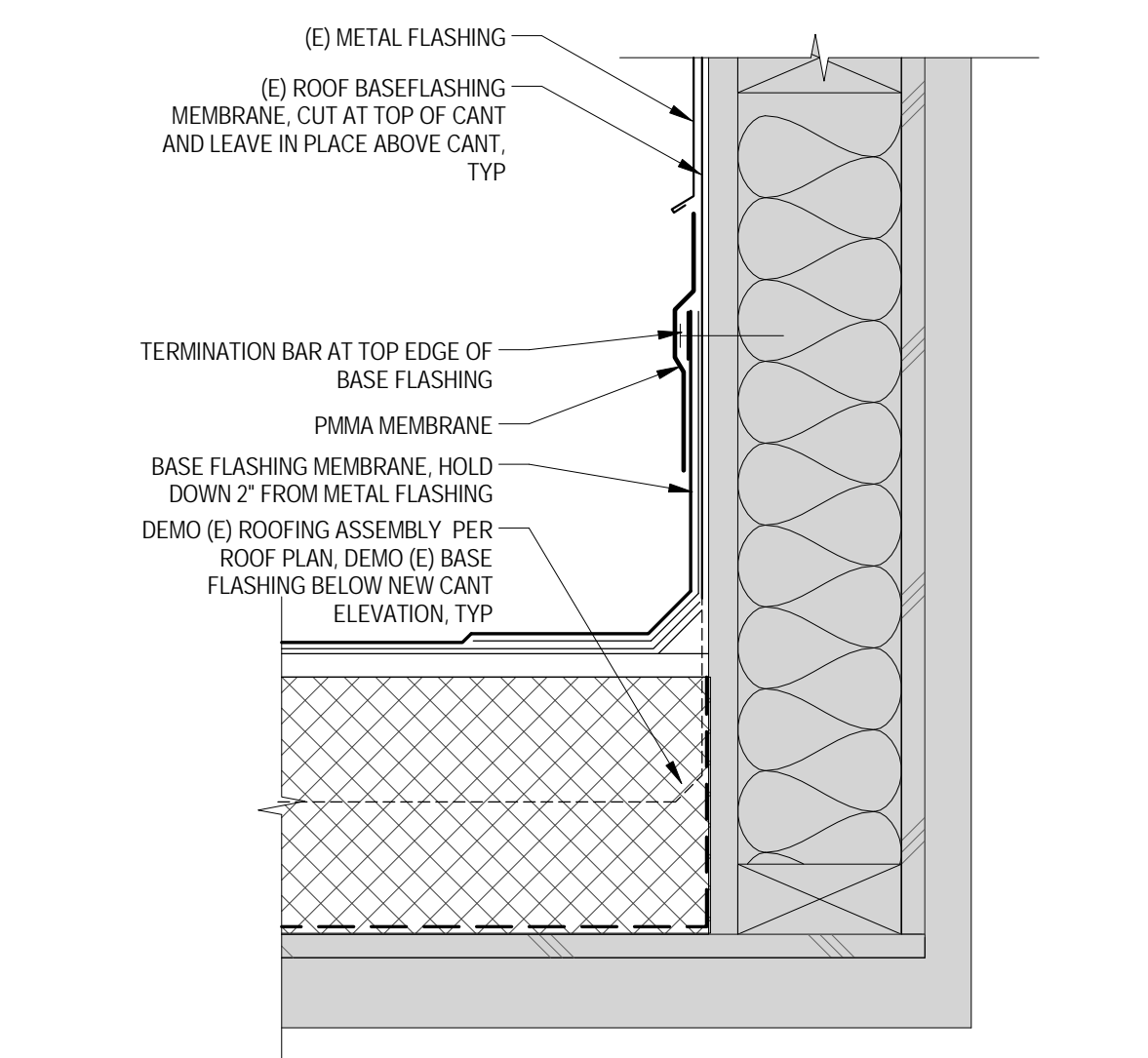
**3 Metal Panel Siding at Corner**  
3' - 1'-0"



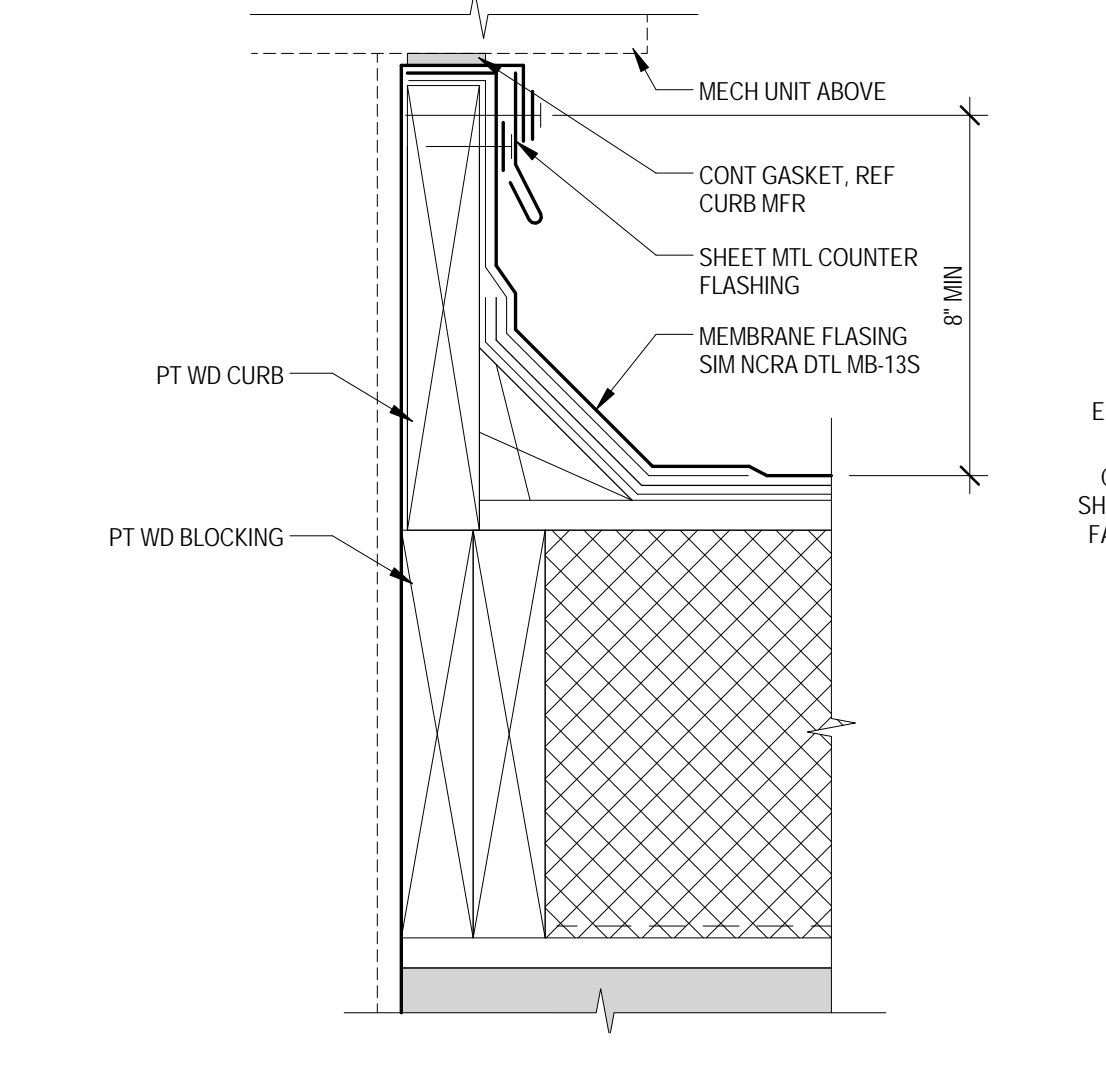
**4 Ridge Cap Flashing at Metal Roof**  
3' - 1'-0"



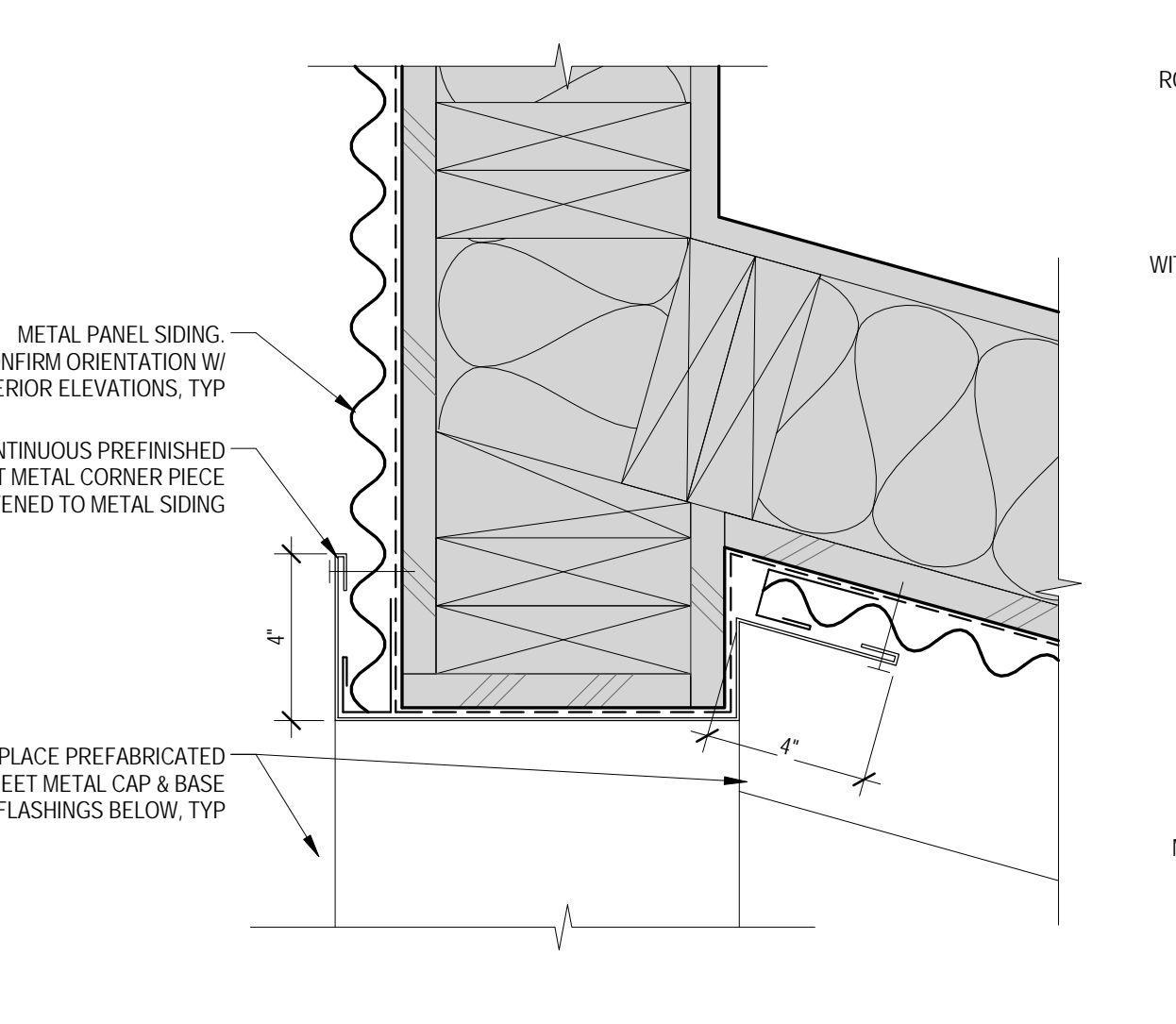
**5 Draining Perimeter Edge at Slope - Single Ply**  
3' - 1'-0"



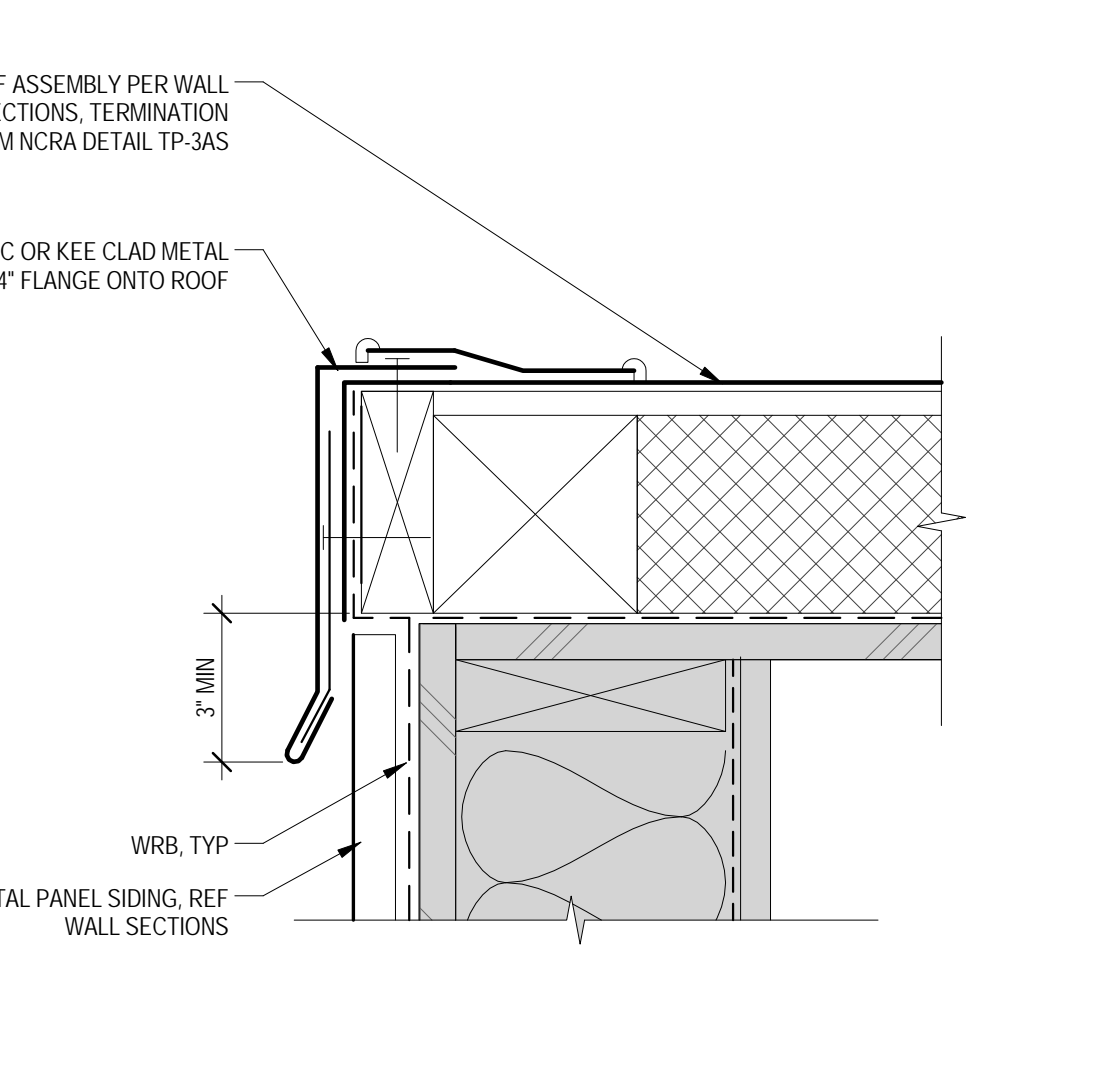
**7 Roofing Termination @ (E) Flashings**  
3' - 1'-0"



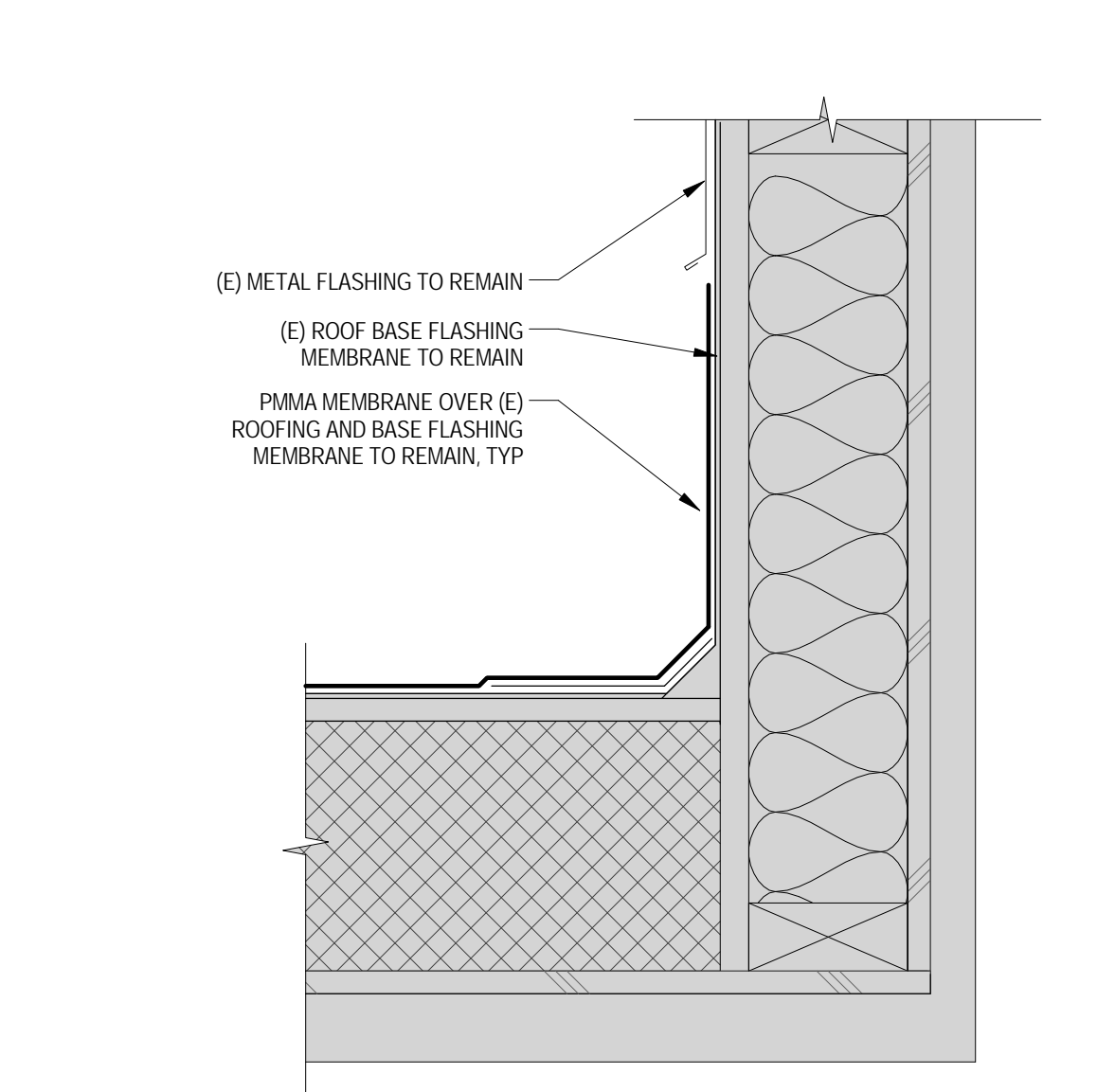
**8 Typical Mechanical Curb**  
3' - 1'-0"



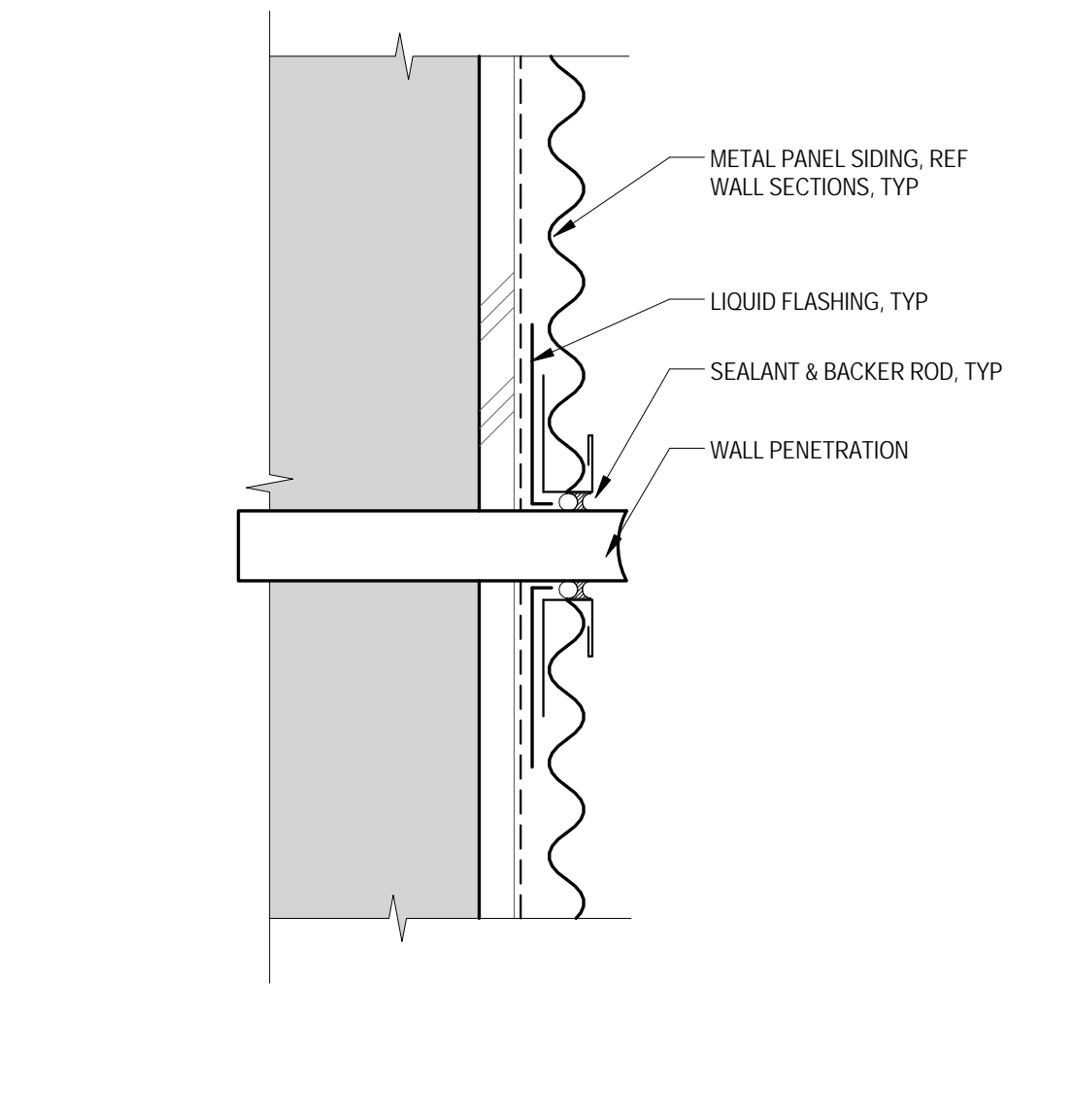
**9 Metal Panel Siding at Extended Corner**  
3' - 1'-0"



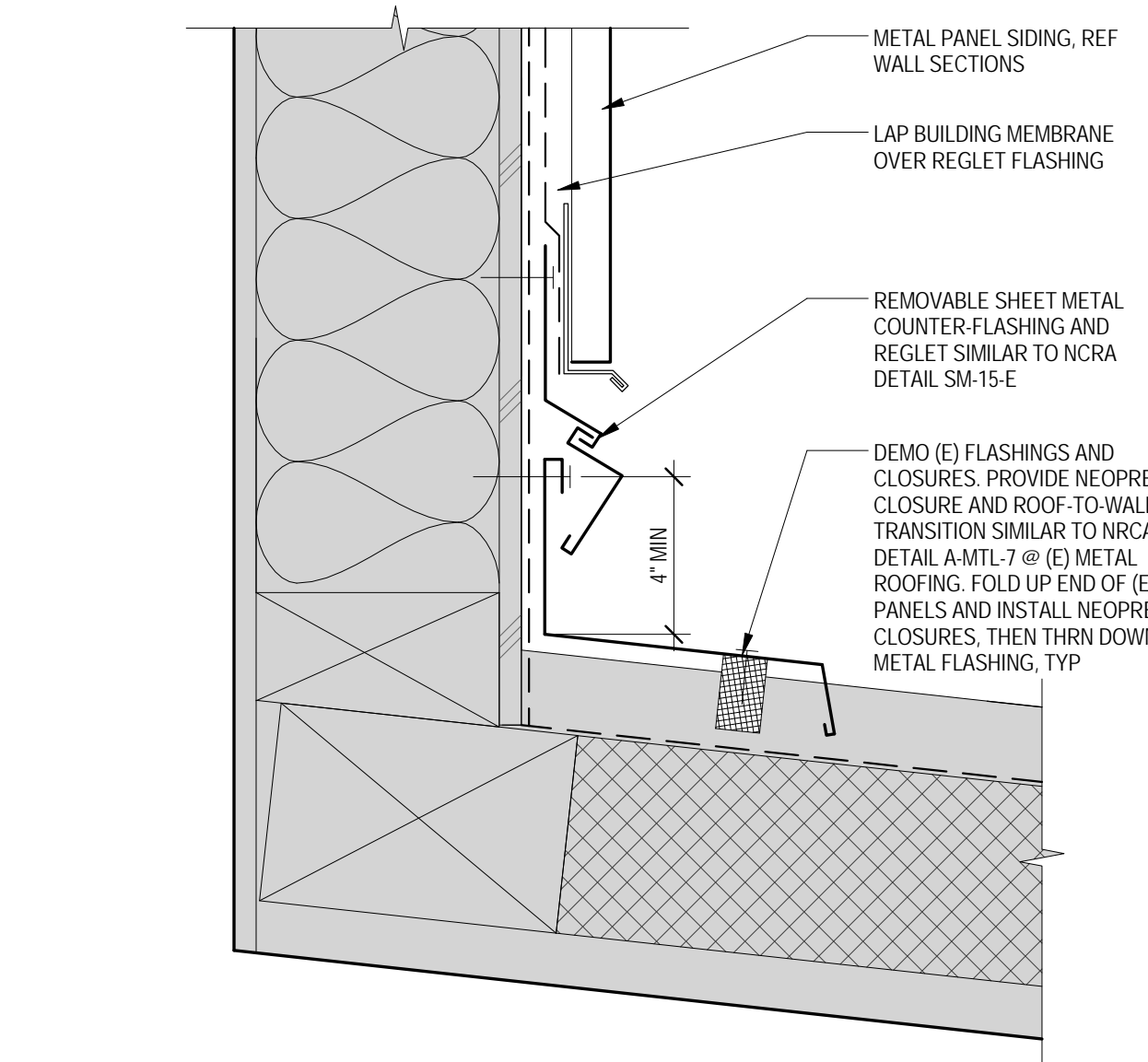
**10 Perimeter Edge at Rake - Single Ply**  
3' - 1'-0"



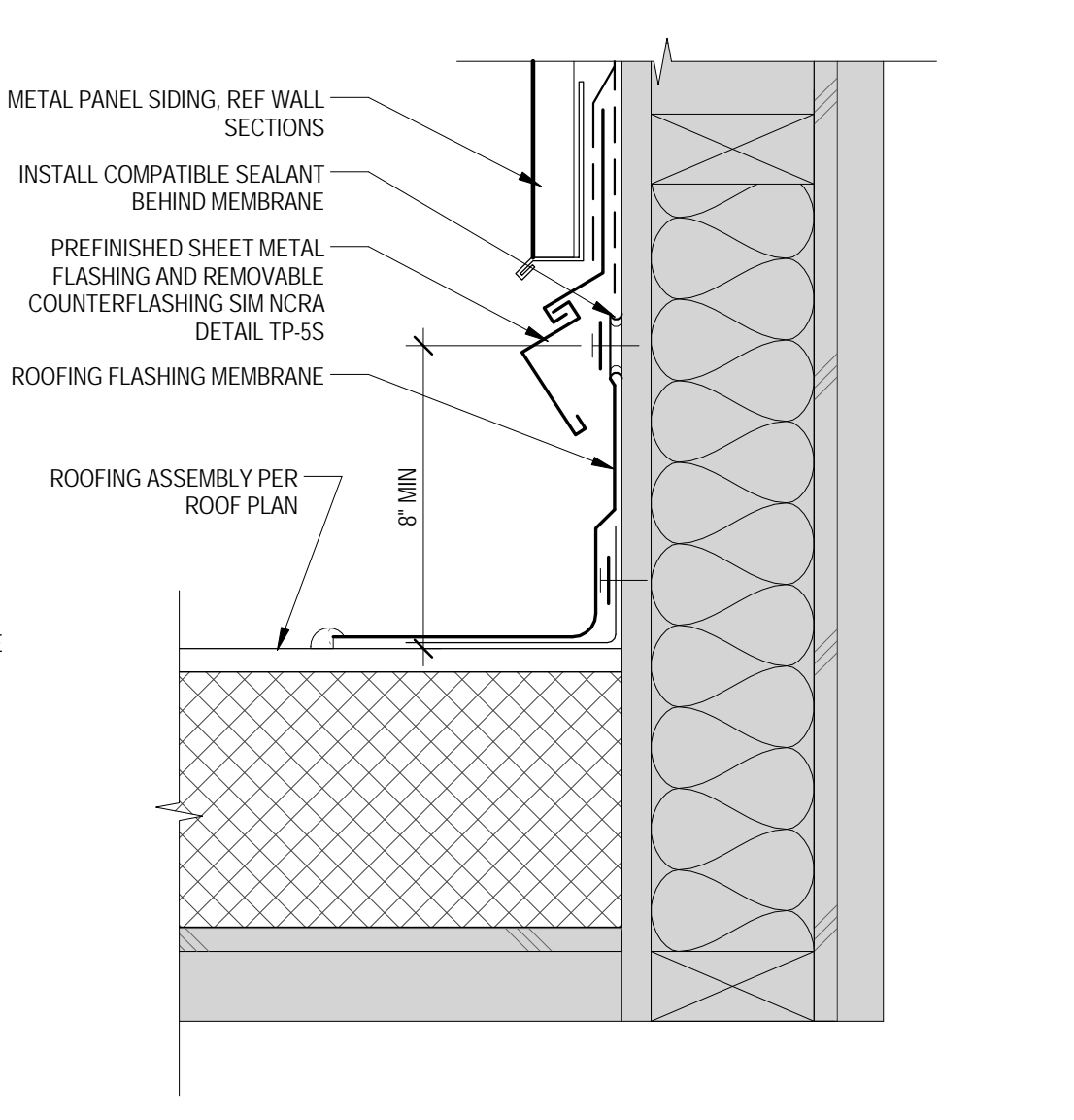
**12 PMMA at (E) Roofing**  
3' - 1'-0"



**13 Hose Bib Detail**  
3' - 1'-0"



**14 Metal Siding at (E) Metal Roof**  
3' - 1'-0"



**15 Typical Base Flashing at Single Ply Roofing**  
3' - 1'-0"

PHASE

**Bid Set**

DATE

**5/10/16**

REVISIONS

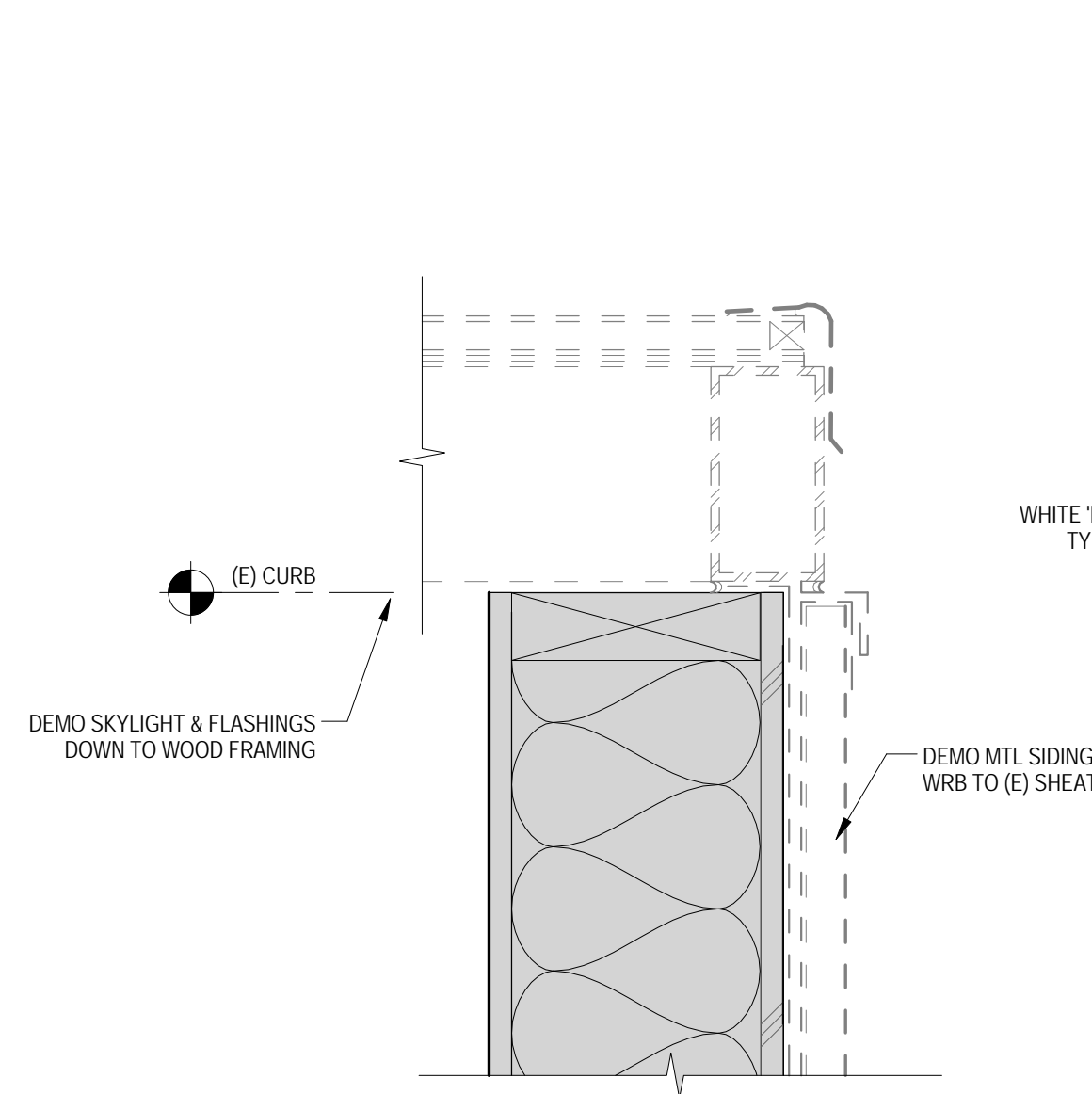
Description	Date

SHEET TITLE

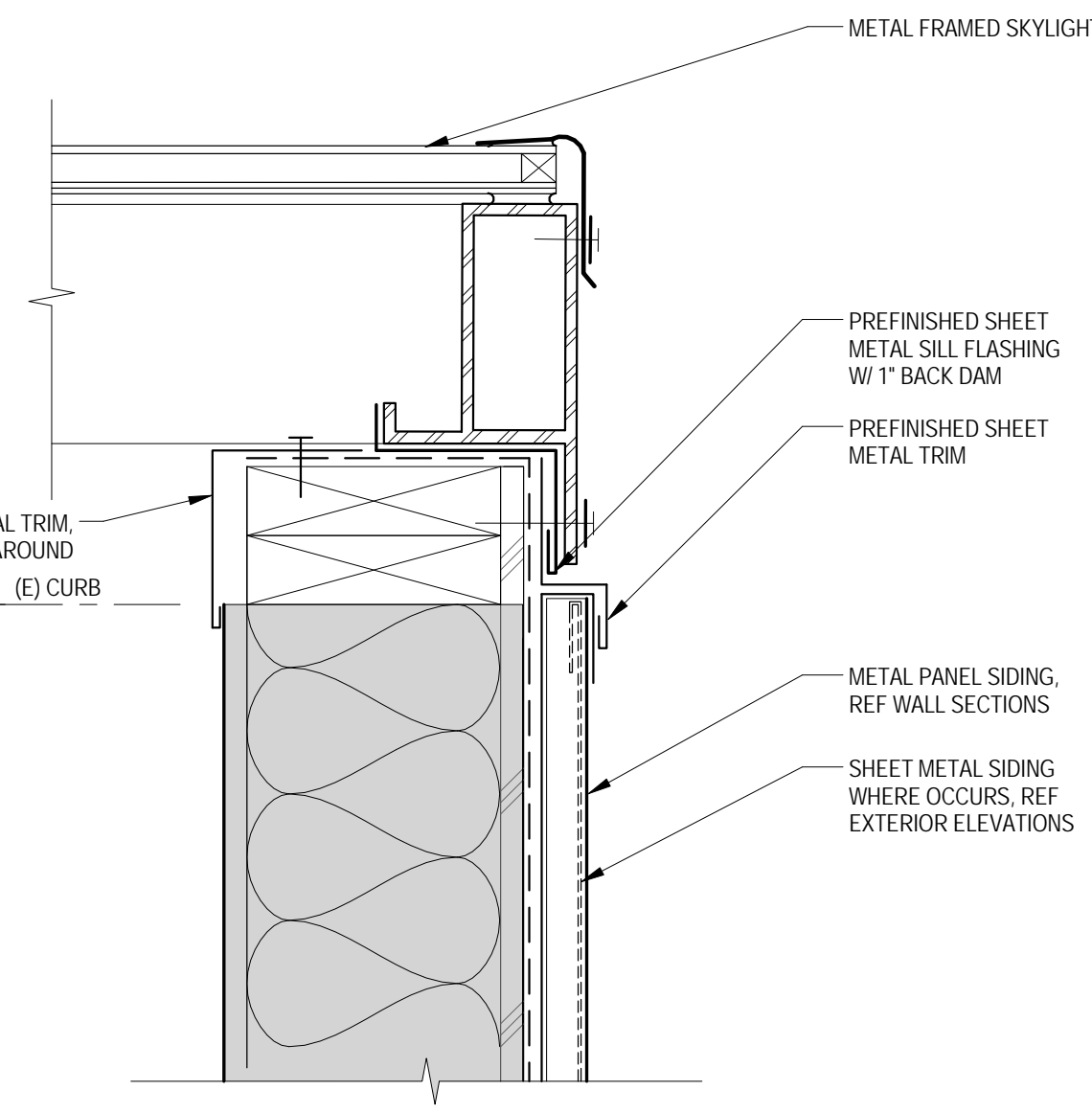
**Exterior Roof  
Details**

SHEET NO.

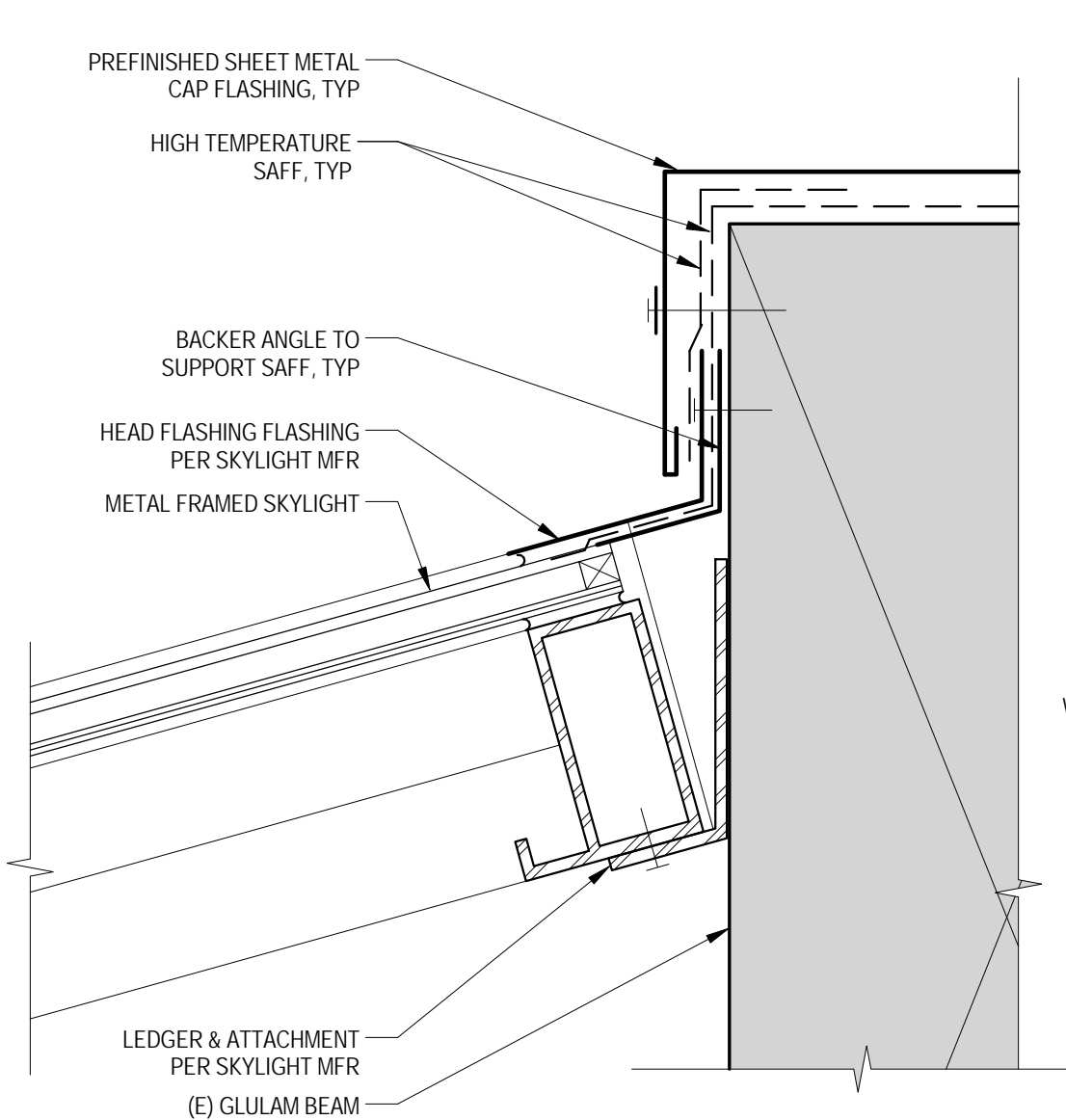




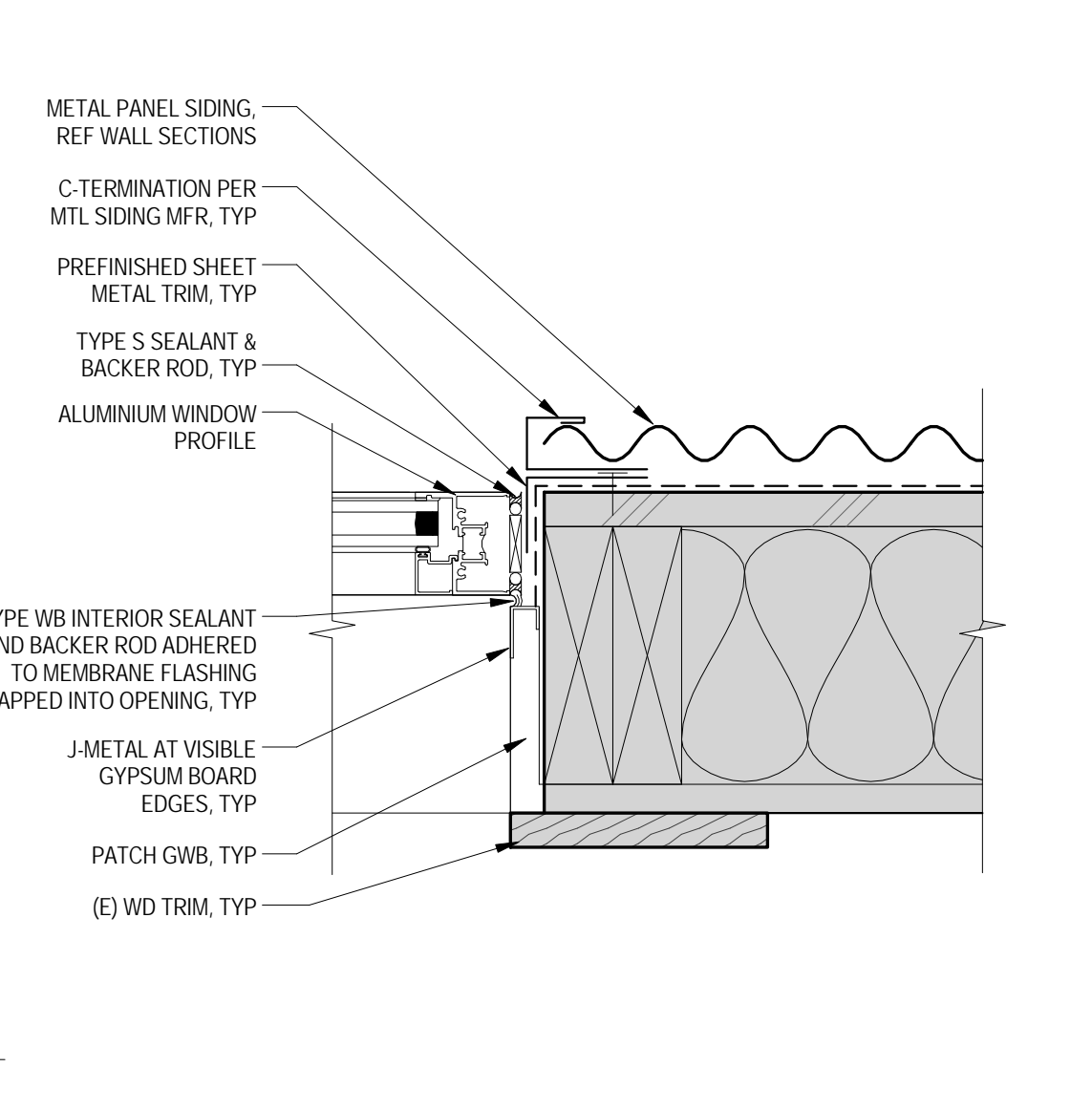
**2 Demo at Skylight Curb**  
3" = 1'-0"



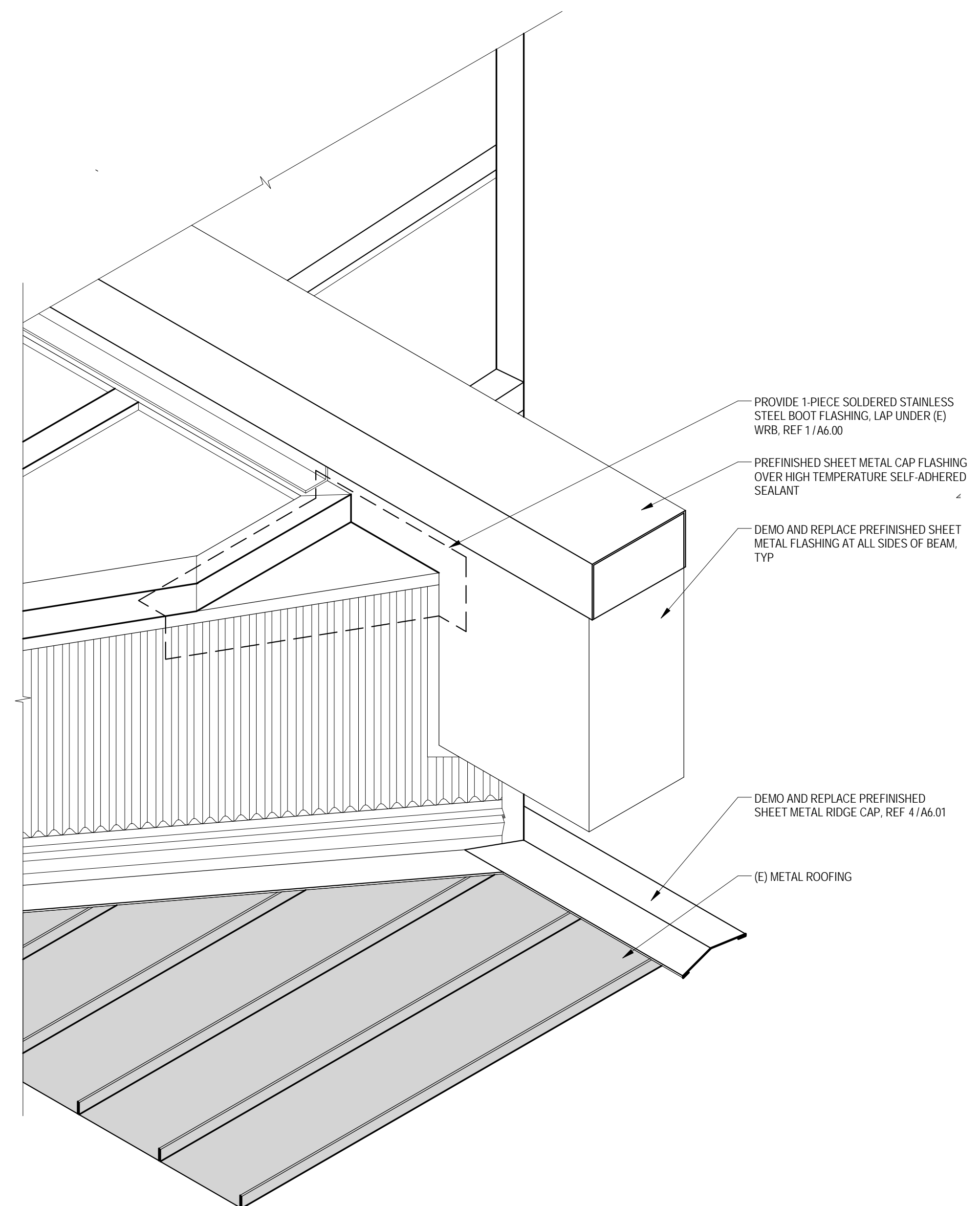
**3 Skylight at Metal Panel Siding**  
3" = 1'-0"



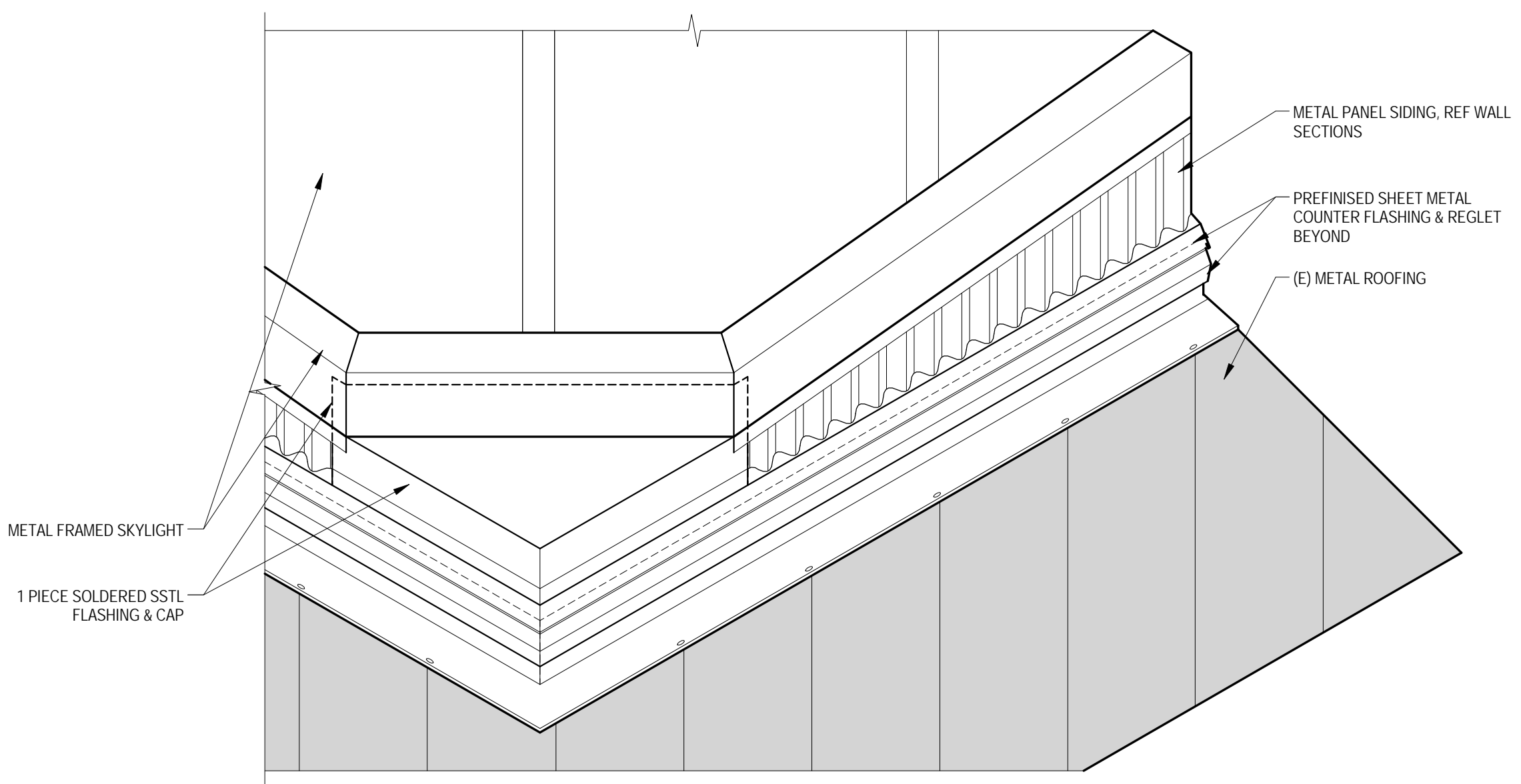
**4 Skylight at Beam**  
3" = 1'-0"



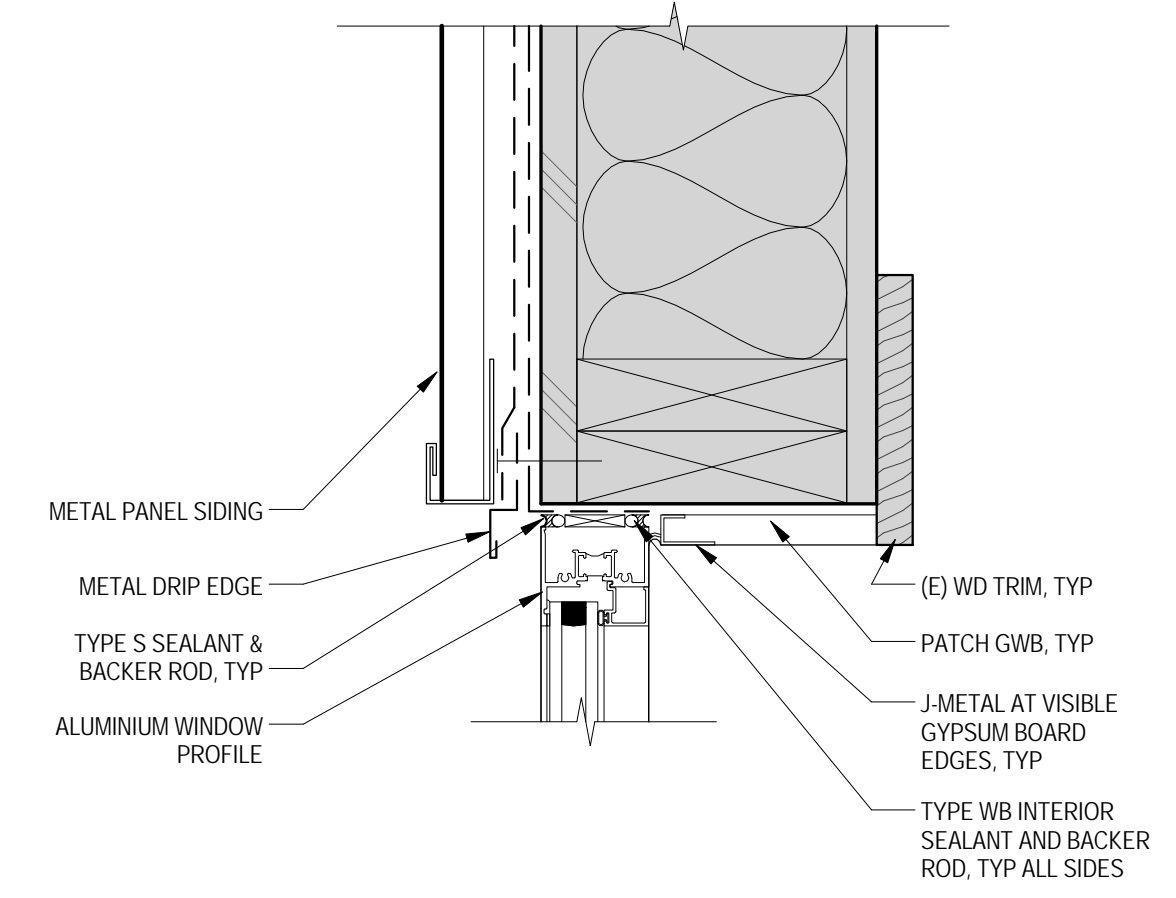
**5 Window - Jamb Detail**  
3" = 1'-0"



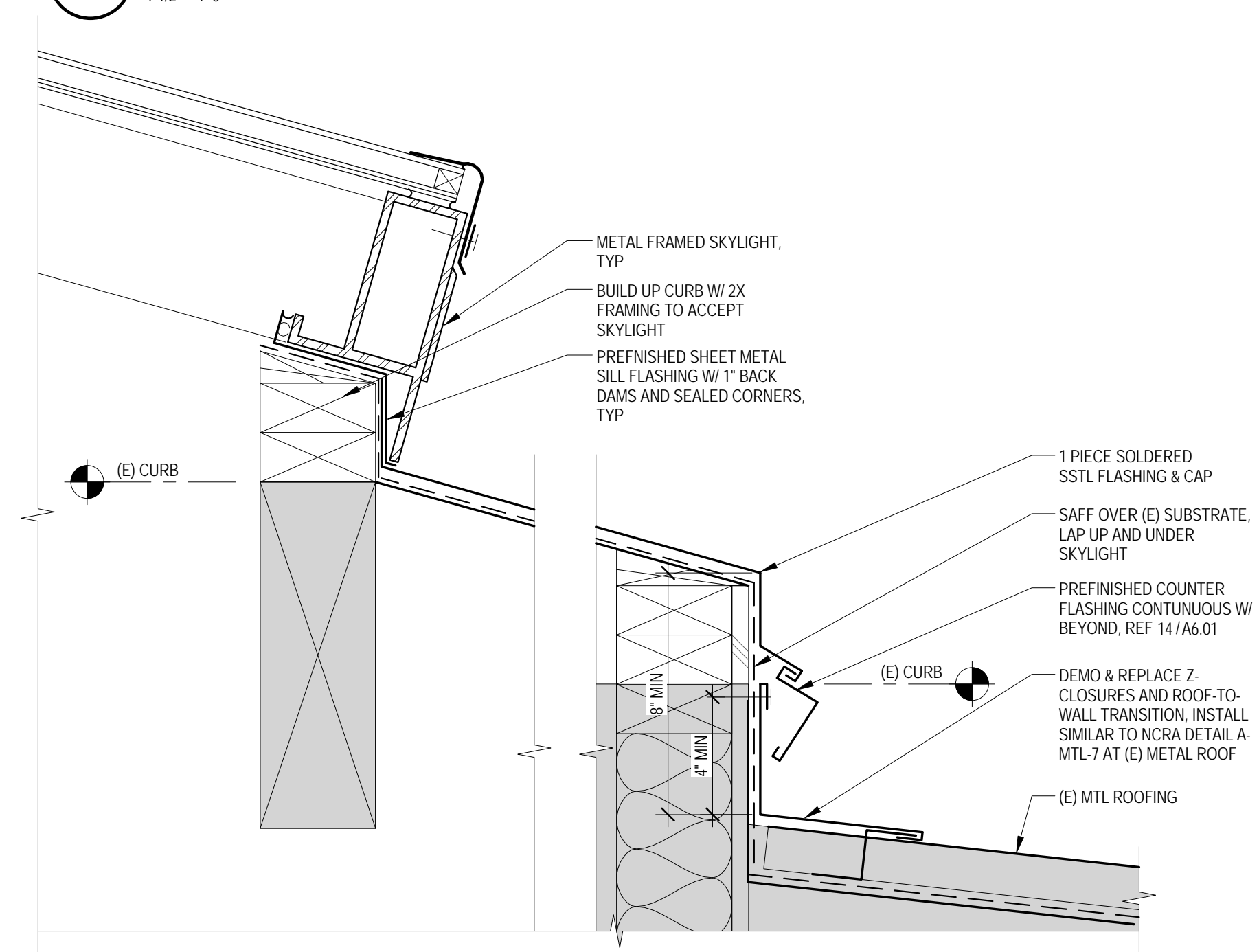
**11 Skylight Termination at Beam**  
1" = 1'-0"



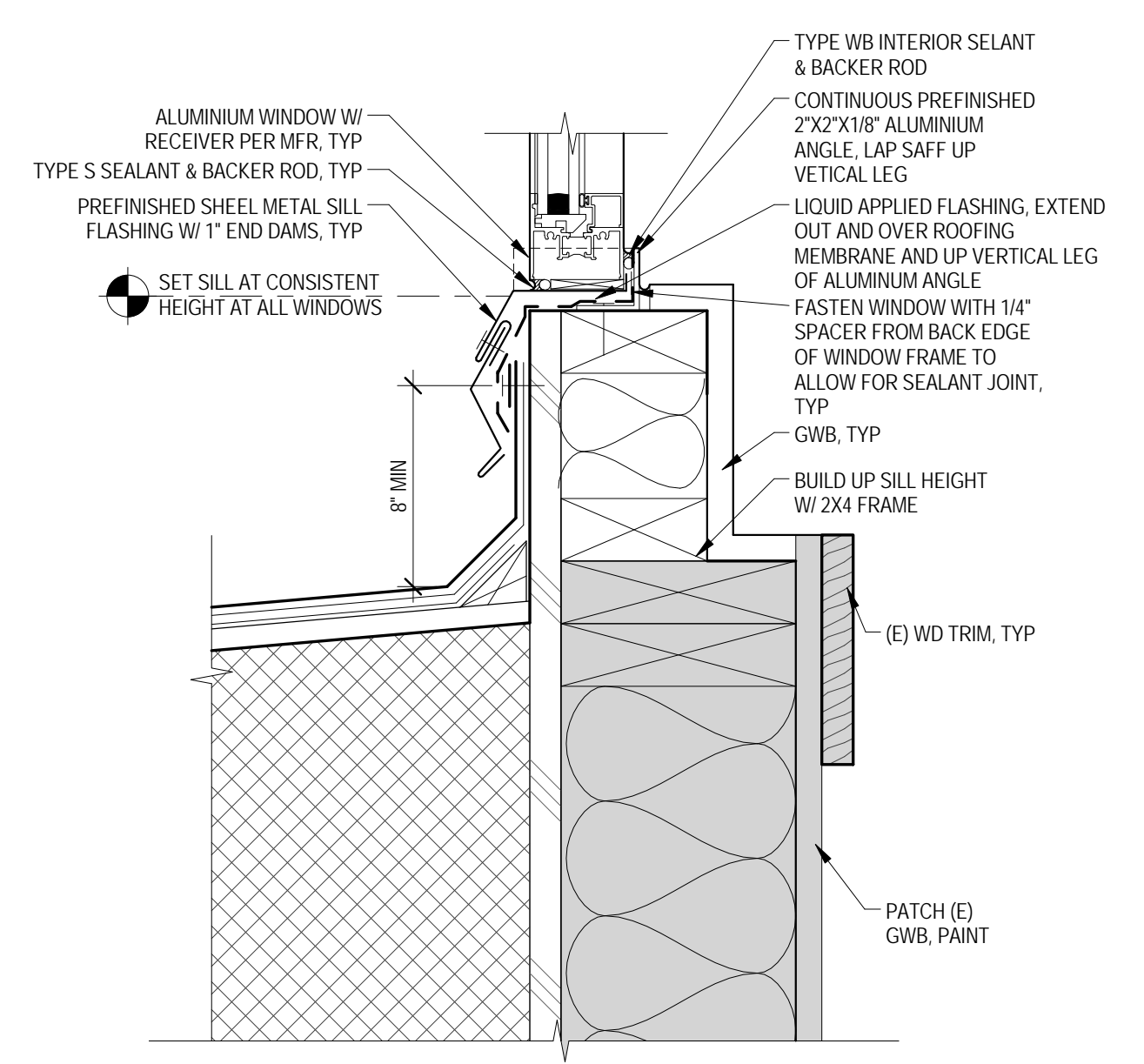
**8 Skylight Termination at Metal Roof**  
1 1/2" = 1'-0"



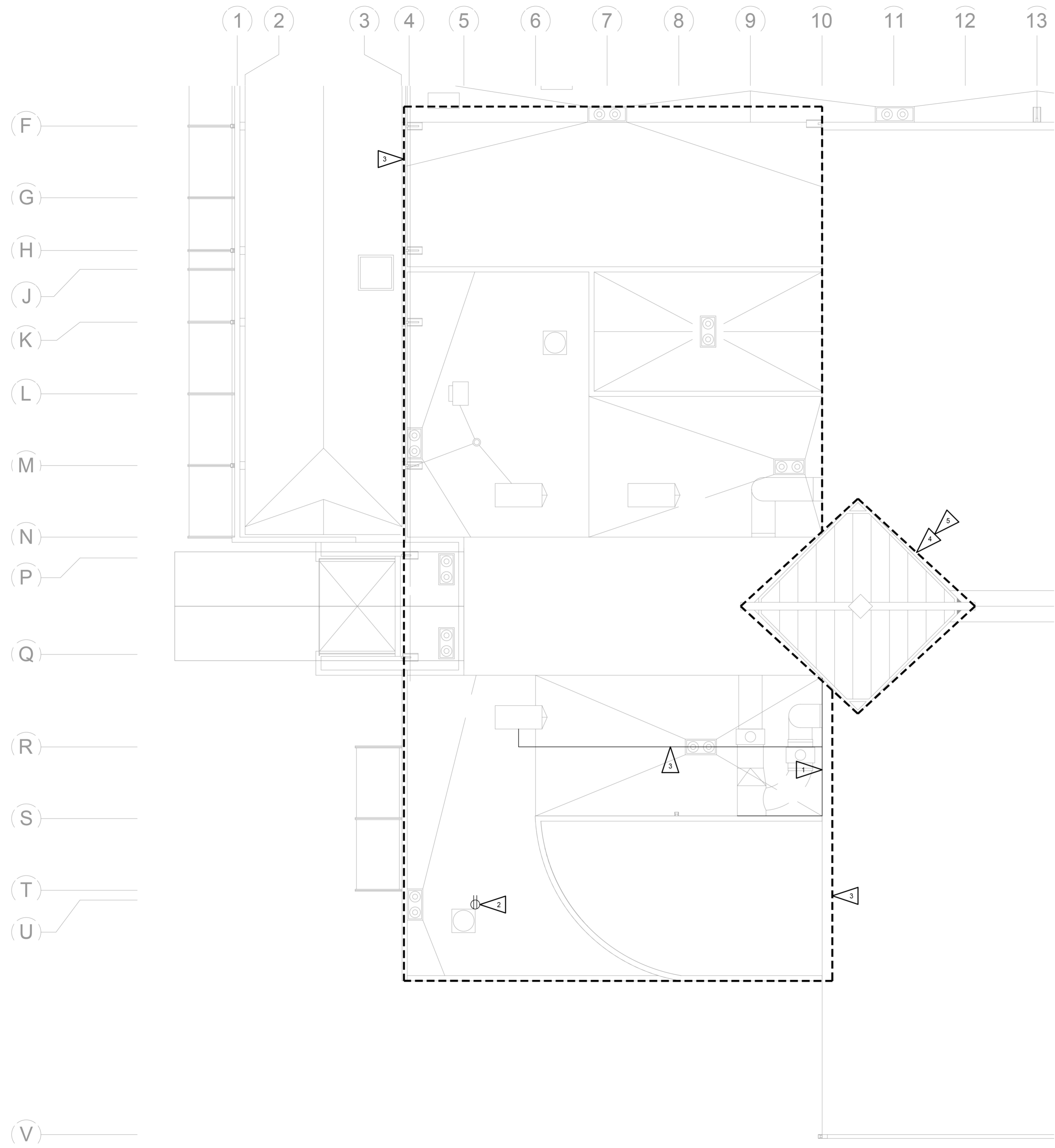
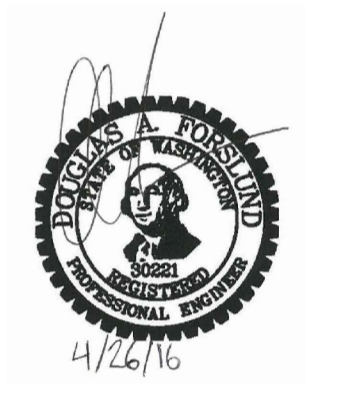
**10 Window - Head Detail**  
3" = 1'-0"



**13 Skylight at Sheet Metal Siding**  
3" = 1'-0"



**15 Window - Sill Detail**  
3" = 1'-0"



**SHEET NOTES:**

1. FIELD VERIFY ALL EXISTING POWER AND LOW VOLTAGE SYSTEMS THAT WILL REQUIRE RELOCATION DUE TO PARTIAL RE-ROOFING AND RE-CLADDING.
2. COORDINATE ANY POWER OR LOW VOLTAGE SYSTEM INTERRUPTIONS WITH OWNER. RE-TERMINATE ALL CONDUCTORS. PROVIDE AS-BUILD OF ALL POWER AND LOW VOLTAGE RELOCATIONS AND J-BOX LOCATIONS.
3. TEMPORARILY RELOCATE ALL ITEMS NOTED TO ALLOW ROOFING INSTALLATION. PERMANENTLY INSTALL ALL NOTED ITEMS AFTER ROOFING INSTALLATION HAS BEEN COMPLETED.
4. COORDINATE EXTENT OF EXPANDED WALL AND ROOFING SURFACE THICKNESSES WITH ARCHITECTURAL.

**FLAG NOTES:**

- 1 RELOCATE EXISTING CONDUIT AND CONDUCTORS IN COORDINATION WITH MECHANICAL TO ALLOW FOR REINSTALLATION OF EXISTING MECHANICAL EQUIPMENT.
- 2 REMOVE EXISTING RECEPTACLE AND SAFE STORE FOR REINSTALLATION. REINSTALL AFTER COMPLETION OF ROOF DECK.
- 3 REMOVE SURFACE MOUNTED CONDUIT. REINSTALL AFTER COMPLETION OF ROOF DECK.
- 4 DEMO EXISTING STRIP LIGHTING AROUND SKYLIGHT.
- 5 SKYLIGHT WORK SCOPE IS INCLUDED UNDER BID ALTERNATE.

Description	Date

**ELECTRICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL**

	EXISTING MECHANICAL TO BE REMOVED
	EXISTING MECHANICAL TO REMAIN
	NEW MECHANICAL WORK
	MATCHLINE OR PROPERTY LINE
	ENLARGED PLAN BOUNDARY
	DETAIL/PLAN IDENTIFIER
	SECTION IDENTIFIER
	ELEVATION IDENTIFIER
	REVISION DEFINITION AREA, AREA ENCIRCLED CONTAINS CHANGES MADE SUBSEQUENT TO PREVIOUS ISSUE
	REVISION CALLOUT
	FLAG NOTE CALLOUT
	DEMOLITION NOTE TAG
	EQUIPMENT TAG
	MECHANICAL EQUIPMENT TAG
	MECHANICAL EQUIPMENT TAG
	NORTH ARROW
	LOCATION WHERE PICTURE WAS TAKEN AND DIRECTION
	INVERT ELEVATION OR POC

**ELECTRICAL PROVISIONS FOR MECHANICAL WORK**

	LOCATION OF STARTER, DISCONNECT & CONTROLS
	VARIABLE FREQUENCY DRIVE
	HEAT TRACE BETWEEN SYMBOLS OR END OF RUN

**ACCESS, EXCAVATION, AND BACKFILLING**

	ACCESS DOOR (SPECIFIED OR AS SHOWN ON DWGS)
	MECHANICAL ACCESS (SPECIFIED OR AS SHOWN ON DWGS)

**PIPING**

	PIPE ELBOW UP OR PIPE TEE UP AND DOWN
	PIPE ELBOW DOWN
	PIPE TEE UP
	PIPE TEE DOWN
	PIPE RISE
	PIPE CAP
	PIPE PLUG
	FLOW DIRECTION
	PIPE BREAK
	PIPE CONNECTION

**STORM DRAINAGE PIPING SYSTEM**

	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	RAIN LEADER
	OVERFLOW RAIN LEADER

**SOIL AND WASTE WATER PIPING SYSTEM**

	VENT PIPING
	4" VTR VENT THRU ROOF (INCLUDE SIZE)
	FLOOR DRAIN/FUNNEL FLOOR DRAIN
	FLOOR SINK

**DOMESTIC WATER PIPING SYSTEM**

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER

**NATURAL GAS PIPING SYSTEM**

	NATURAL GAS PIPING
	GAS COCK
	PRESSURE REGULATOR
	PRESSURE REGULATOR WITH VENT
	SEISMIC GAS SHUT-OFF
	GAS PRESSURE REDUCING VALVE WITH VENT

**DUCTWORK**

	BACKDRAFT DAMPER
	VOLUME DAMPER
	TRANSITION - FROM RECTANGULAR TO ROUND TRANSITION - FROM ROUND TO RECTANGULAR
	RISE IN DUCT (D=DROP IN DUCT)
	DUCT SIZE (CLEAR INSIDE DIMENSION)
	RECTANGULAR DUCT UP
	RECTANGULAR DUCT DN
	ROUND DUCT UP
	ROUND DUCT DN
	TRANSITION OR REDUCER (FOT=FLAT ON TOP, FOB=FLAT ON BOTTOM)
	TRANSITION - ECCENTRIC
	RECTANGULAR SUPPLY DUCT ROOF PENETRATION
	RECTANGULAR RETURN OR OUTSIDE AIR DUCT ROOF PENETRATION
	RECTANGULAR EXHAUST DUCT ROOF PENETRATION
	ROUND DUCT ROOF PENETRATION

**INLETS AND OUTLETS**

	GRILLE REGISTER OR DIFFUSER TYPE
	RUNOUT SIZE (INCHES)
	AIR QUANTITY (CFM)
	CEILING DIFFUSER
	1-WAY DIRECTION FLOW
	2-WAY DIRECTION FLOW
	3-WAY DIRECTION FLOW
	RETURN/RELIEF AIR GRILLE
	EXHAUST AIR GRILLE
	LINEAR DIFFUSER/GRILLE
	SUPPLY GRILLE
	RETURN/EXHAUST GRILLE
	TRANSFER GRILLE
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIR FLOW

**ABBREVIATIONS**

Ø	DIAMETER, PHASE	NA	NOT APPLICABLE
A	AIR, AMPS	NC	NORMALLY CLOSED, NOISE CRITERIA
ABV	ABOVE	NIC	NOT IN CONTRACT NUMBER
AC	AIR CONDITIONER	NTS	NOT TO SCALE
ACU	AIR CONDITIONING UNIT	OA	OUTDOOR AIR
AD	ACCESS DOOR	OBD	OPPOSED BLADE DAMPER
ADA	AMERICANS WITH DISABILITIES ACT	ORD	OVERFLOW ROOF DRAIN
AFF	ABOVE FINISHED FLOOR	ORL	OVERFLOW RAIN LEADER
AFS	AIRFLOW MEASURING STATION	OSA	OUTDOOR SUPPLY AIR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	PH	PHASE
AG	ABOVE GROUND	POC	POINT OF CONNECTION
AHJ	AUTHORITY HAVING JURISDICTION	PRV	PRESSURE REDUCING VALVE
AHU	AIR HANDLING UNIT	PSIG	POUNDS PER SQUARE INCH GAGE
AMB	AMBIENT	QTY	QUANTITY
APD	AIR PRESSURE DROP	RA	RETURN AIR, RELIEF AIR
ARCH	ARCHITECT	RD	ROOF DRAIN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS, INC.	REF	REFERENCE, RETURN/EXHAUST FAN
ATM	ATMOSPHERE	RF	RELIEF FAN
BDD	BACK DRAFT DAMPER	RG	RETURN GRILLE
BF	BELOW FLOOR	RH	ROOF HOOD
BHP	BRAKE HORSE POWER	RL	RAIN LEADER
BLW	BELOW	RPM	REVOLUTIONS PER MINUTE
BOD	BOTTOM OF DUCT	RTU	ROOFTOP UNIT
BOP	BOTTOM OF PIPE	S	SENSOR
BOT	BOTTOM	SA	SUPPLY AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	SAT	SUPPLY AIR TEMPERATURE
BV	BALL VALVE	SCFM	STANDARD CUBIC FEET PER MINUTE
C	CONDENSATE PIPING	SD	STORM DRAIN PIPING
CAP	CAPACITY	SENS	SENSIBLE
CC	COOLING COIL	SF	SUPPLY FAN, SQUARE FOOT
CD	CEILING DIFFUSER, CONDENSATE DRAIN	SG	SUPPLY GRILLE, SIGHT GLASS WITH MOISTURE INDICATOR
CFM	CUBIC FEET PER MINUTE	SHC	STEAM HEATING COIL
CG	CEILING GRILLE	SIM	SIMILAR
CH	CABINET HEATER, CHILLER	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.
CKV	CHECK VALVE	SOV	SHUTOFF VALVE
CLG	CEILING, COOLING	SPS	STATIC PRESSURE STATION
CO	CLEANOUT, CO SENSOR	SS	STAINLESS STEEL, SANITARY SEWER
CO2	CO2 SENSOR	TYP	TYPICAL
COND	CONDENSER, CONDENSATE	UG	UNDERGROUND
CONN	CONNECTOR	UH	UNIT HEATER
CONT	CONTINUE, CONTROL	UNO	UNLESS NOTED OTHERWISE
COP	COEFFICIENT OF PERFORMANCE	V	VENT PIPING, VOLT
CR	CONDENSATE RECEIVER, CONDENSER WATER RETURN	VA	VALVE
CS	CONDENSER WATER SUPPLY	VAV	VARIABLE AIR VOLUME
CU	CONDENSING UNIT, CUBIC	VCD	VOLUME CONTROL DEVICE
D	DRAIN	VD	VOLUME DAMPER
DB	DRY BULB (TEMPERATURE)	VEL	VELOCITY
dB	DECIBEL	VENT	VENTILATION, VENTILATOR
(E)	EXISTING	VFD	VARIABLE FREQUENCY DRIVE
EA	EXHAUST AIR	VOLT	VOLTAGE
EAT	ENTERING AIR TEMPERATURE	VTR	VENT THRU ROOF
EER	ENERGY EFFICIENCY RATIO	W	WASTE, WATT, WIDE, WATER
EF	EXHAUST FAN	W/	WITH
EFF	EFFICIENCY	WB	WET BULB (TEMPERATURE)
EG	EXHAUST GRILLE, ENGINE GENERATOR	WC	WATER CLOSET, WATER COLUMN
EL	ELEVATION	WCO	WALL CLEANOUT
ESP	EXTERNAL STATIC PRESSURE	WG	WATER GAGE
EXH	EXHAUST	WH	WATER HEATER, WALL HYDRANT
F	FAHRENHEIT, FIRE MAIN PIPING	WHA	WATER HAMMER ARRESTOR
FPM	FEET PER MINUTE	WM	WATER METER
FPS	FEET PER SECOND	WSEC	WASHINGTON STATE ENERGY CODE
FS	FLOOR SINK	WSFU	WATER SUPPLY FIXTURE UNIT
FT	FEET, FIN TUBE	WT	WEIGHT
FV	FACE VELOCITY		
G	GAS		
GA	GAGE		
GALV	GALVANIZED		
GAHU	GAS AIR HANDLING UNIT		
GC	GAS COCK, GENERAL CONTRACTOR		
GPRV	GAS PRESSURE REGULATING VALVE		
GRD	GRILLES, REGISTERS, AND DIFFUSERS		
GV	GATE VALVE, GLOBE VALVE		
H	HUMIDISTAT, HEIGHT		
HB	HOSE BIBB		
HC	HEATING COIL		
HD	HEAD, HUB DRAIN		
HORIZ	HORIZONTAL		
HP	HORSEPOWER, HEAT PUMP		
HTG	HEATING		
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING		
HZ	HERTZ		
KW	KILOWATT		
L	LENGTH		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUND		
MBH	THOUSAND BTU PER HOUR		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		
MECH	MECHANICAL		
MERV	MINIMUM EFFICIENCY REPORTING VALUE		
MIN	MINIMUM		
MOCP	MAXIMUM OVERCURRENT PROTECTION		
MPG	MEDIUM PRESSURE GAS		
MPS	MEDIUM PRESSURE STEAM		

**DRAWING INDEX**

M0.01	LEGEND, ABBREVIATIONS, GENERAL NOTES AND SHEET INDEX
M1.01	MECHANICAL ROOF PLAN
M2.01	MECHANICAL DETAILS

**GENERAL NOTES - MECHANICAL**

- COORDINATE MECHANICAL WORK WITH THAT OF OTHER TRADES (ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE). REFER TO ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND/OR INSTALLATION OF ALL WORK.
- COORDINATE PLUMBING, HVAC, AND FIRE PROTECTION SYSTEMS ROUTING PRIOR TO INSTALLATION. DURING LAYOUT COORDINATION, DUCTWORK TAKES PRECEDENCE OVER PLUMBING, INCLUDING FIRE PROTECTION SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE KEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT, AND ENVIRONMENTAL CONDITIONS.
- ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.
- DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.

**KCLS Covington Library Exterior Improvements**

27100 164th Avenue  
Southeast  
Covington, WA 98042

**Miller Hayashi Architects**

118 North 35th St. Suite 200  
Seattle, Washington 98103  
Tel: 206 634 0177  
Fax: 206 634 0167

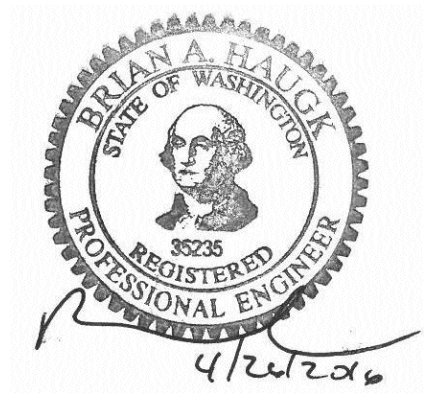
ARCHITECT'S STAMP

CONSULTANT

**HARGIS**

1200 4th Avenue, Suite 400  
Seattle, Washington 98101  
Tel: 206 467 1100  
Fax: 206 467 1101

CONSULTANT'S STAMP



PHASE

**Bid Set**

DATE

**5/10/16**

REVISIONS

Description	Date
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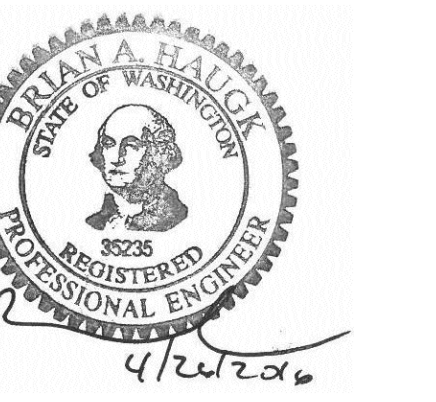
SHEET TITLE

**LEGEND, ABBREVIATIONS, GENERAL NOTES AND SHEET INDEX**

SHEET NO.

**M0.01**

NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS



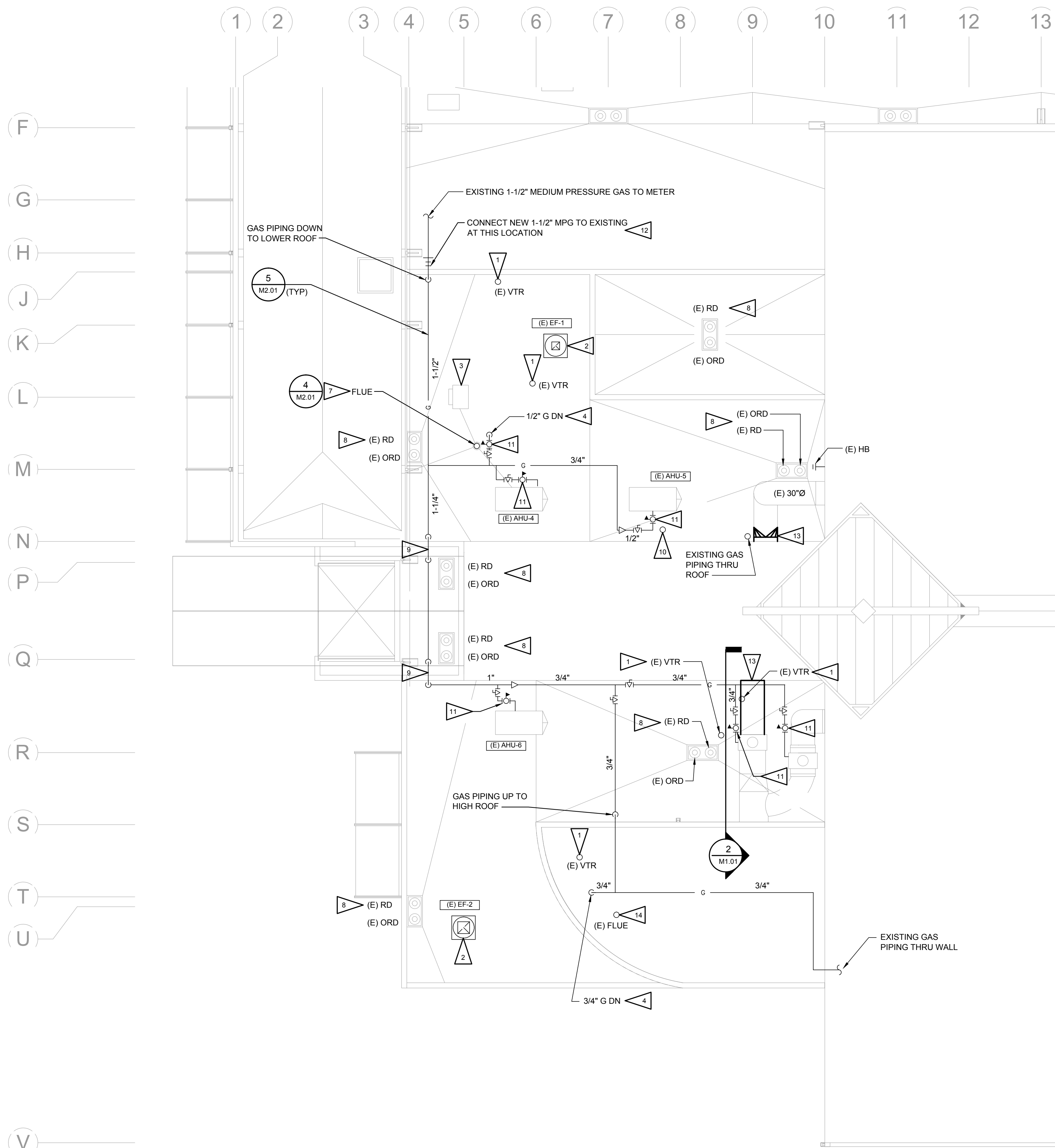
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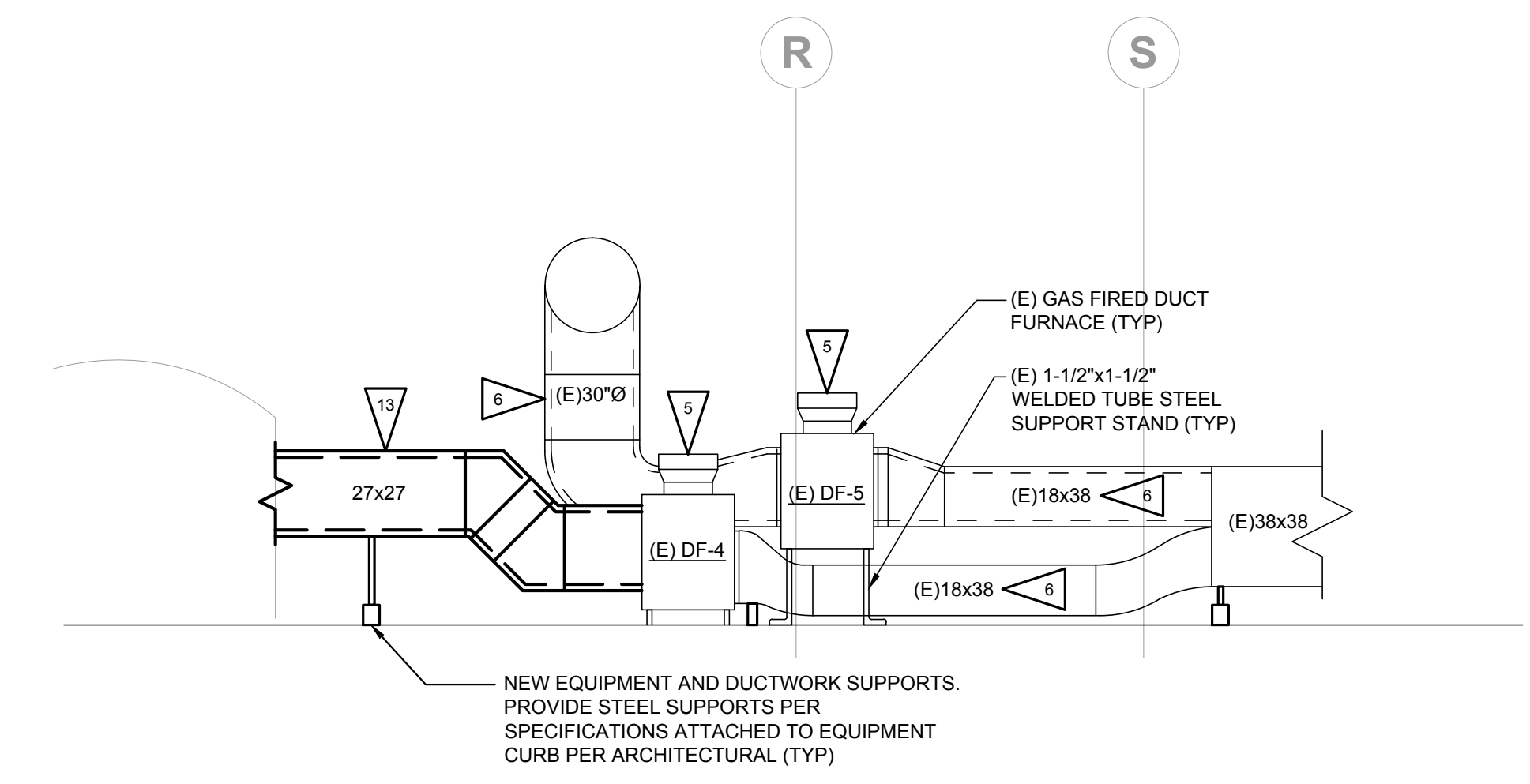
1. EXTEND EXISTING PLUMBING VENTS TO ACCOMMODATE INCREASED ROOF ASSEMBLY THICKNESS. TERMINATE A MINIMUM OF 12" ABOVE FINISHED ROOF LEVEL. PROVIDE VENT EXTENSIONS WITH NEW VANDAL PROOF VENT CAPS. PIPE COUPLING AT VENT EXTENSION SHALL BE COMPLETELY CONCEALED WITHIN ROOF INSULATION, BELOW FINISHED ROOF SURFACE. REFER TO ARCHITECTURAL DETAILS FOR FLASHING REQUIREMENTS.
2. REMOVE EXISTING EXHAUST FAN AND SAFE STORE FOR REINSTALLATION. REINSTALL EXHAUST FANS SUCH THAT TOP OF CURB IS MINIMUM 8" ABOVE ROOF DECK. FIELD VERIFY EXISTING DUCT SIZE AND EXTEND AS REQUIRED TO RECONNECT TO FAN. NEW DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
3. REMOVE EXISTING GOOSENECK INTAKE VENT AND SAFE STORE FOR REINSTALLATION. REINSTALL INTAKE VENT SUCH THAT TOP OF CURB IS MINIMUM 8" ABOVE ROOF DECK.
4. EXISTING GAS PIPING THRU ROOF TO WATER HEATER BELOW. GAS SERVICE TO WATER HEATER SHALL NOT BE INTERRUPTED DURING NORMAL BUSINESS HOURS. ANY DOWNTIME REQUIRED FOR REPLACEMENT OF PIPING SHALL BE COORDINATED WITH THE LIBRARY MANAGER AND GENERAL CONTRACTOR.
5. REMOVE EXISTING DUCT FURNACE AND SAFE STORE FOR REINSTALLATION. REINSTALL DUCT FURNACE ON EQUIPMENT SUPPORT PER ARCHITECTURAL. COORDINATE HEIGHT OF SUPPORT WITH ARCHITECT.
6. REMOVE DUCTWORK AS REQUIRED TO FACILITATE REROOFING AND SAFE STORE FOR REINSTALLATION. INSPECT DUCTWORK FOR DAMAGE AND IMMEDIATELY NOTIFY ARCHITECT OF ANY ITEMS NOTED. REINSTALL EXISTING DUCTWORK EXCEPT AS NOTED ON THE PLANS. PROVIDE OFFSETS AND TRANSITIONS AS REQUIRED TO ACCOMMODATE INCREASED ROOF ASSEMBLY THICKNESS.
7. REMOVE EXISTING FLUE THRU ROOF AND ASSOCIATED SUPPORT CABLES. INSTALL NEW TYPE B FLUE IN SAME LOCATION. FLUE CAP SHALL EXTEND 3'-0" ABOVE GOOSENECK INTAKE VENT. COORDINATE GUY WIRE TIE OFF LOCATIONS WITH GENERAL CONTRACTOR.
8. INSPECT ROOF DRAIN AND OVERFLOW ROOF DRAIN BODY, RECEIVER DECK AND SUMP FOR POSSIBLE CORROSION AND DETERIORATION. IMMEDIATELY NOTIFY ARCHITECT AND OWNER OF ANY ITEMS NOTED.
9. ROUTE GAS PIPING OVER PARAPET.
10. REMOVE EXISTING GAS PIPE PENETRATION THRU ROOF. CAP BELOW ROOF DUCT.
11. REMOVE EXISTING GAS REGULATOR AND SAFE STORE FOR REINSTALLATION. TAG EACH REGULATOR WITH UNIT SERVED TO ENSURE CORRECT CAPACITY IS MAINTAINED. REINSTALL REGULATOR PER DETAIL 6/M2.01.
12. REPLACE ALL GAS PIPING IN AREA TO BE REROOFED. GAS REGULATORS SHALL BE REUSED. NEW GAS COCKS SHALL BE PROVIDED AS SHOWN.
13. NEW 27x27 LINED DUCT. CONNECT TO EXISTING 30"Ø DUCT TRAVERSING THE CLERESTORY. COORDINATE DUCT ATTACHMENT AT WALL AND BOTTOM HEIGHT OF DUCT WITH ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR FURTHER DETAILS.
14. REMOVE EXISTING CONCENTRIC FLUE FOR BOILER AND SAFE STORE FOR REINSTALLATION. REINSTALL FLUE SUCH THAT TOP IS A MINIMUM OF 12" ABOVE FINISHED ROOF LEVEL.

**SHEET NOTES:**

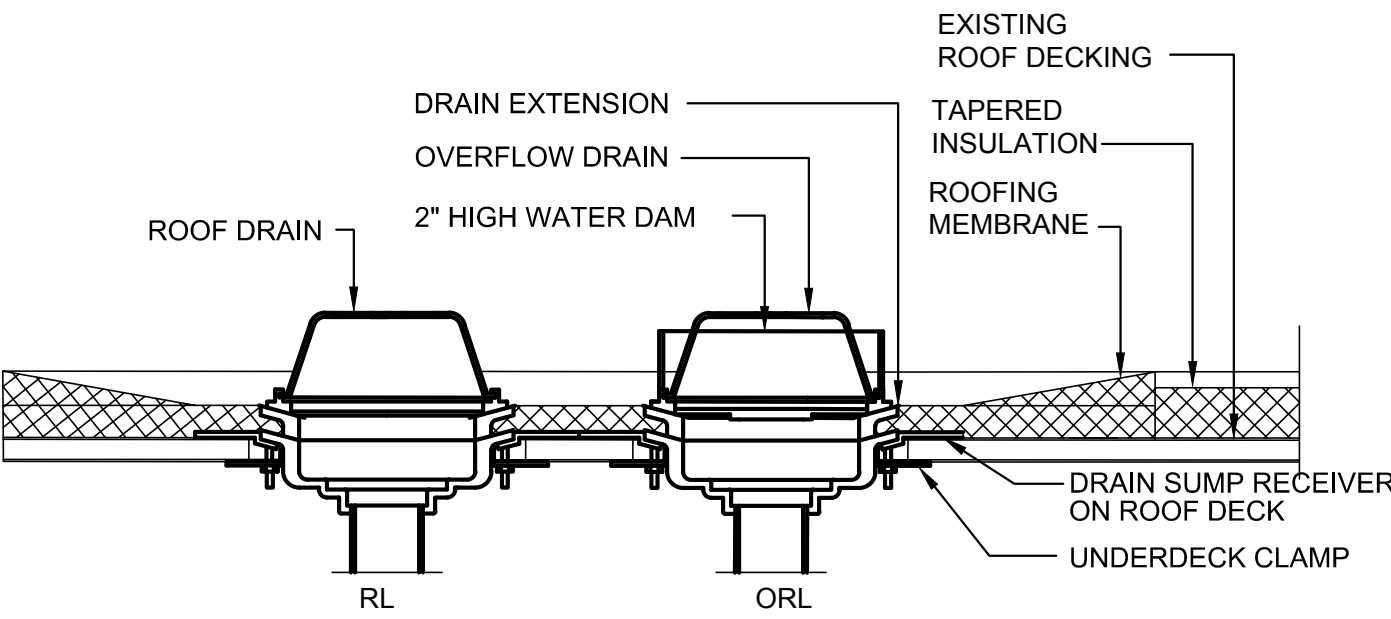
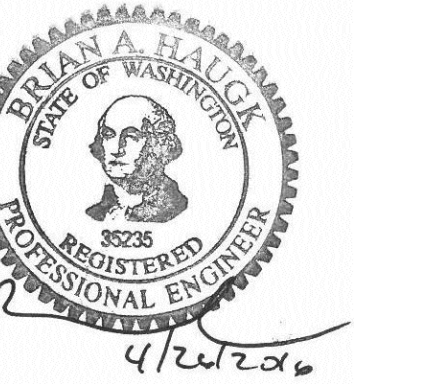
1. MECHANICAL ITEMS SHOWN ON PLAN WERE TAKEN FROM (E) DRAWINGS AND WALK OF SITE. CONTRACTOR SHALL FIELD VERIFY QUANTITIES AND SIZES PRIOR TO BID AND REFERENCE ARCHITECTURAL DRAWINGS FOR COMPLETE SCOPE OF WORK AND INCLUDE WITHIN BID.
2. CONTRACTOR SHALL VERIFY PROPER FUNCTION OF ALL EXISTING EQUIPMENT PRIOR TO BEGINNING ANY WORK. NOTIFY ARCHITECT AND OWNER OF ANY NON-WORKING EQUIPMENT.



**1 M1.01 MECHANICAL ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**2 M1.01 SECTION**  
SCALE: 1/4" = 1'-0"

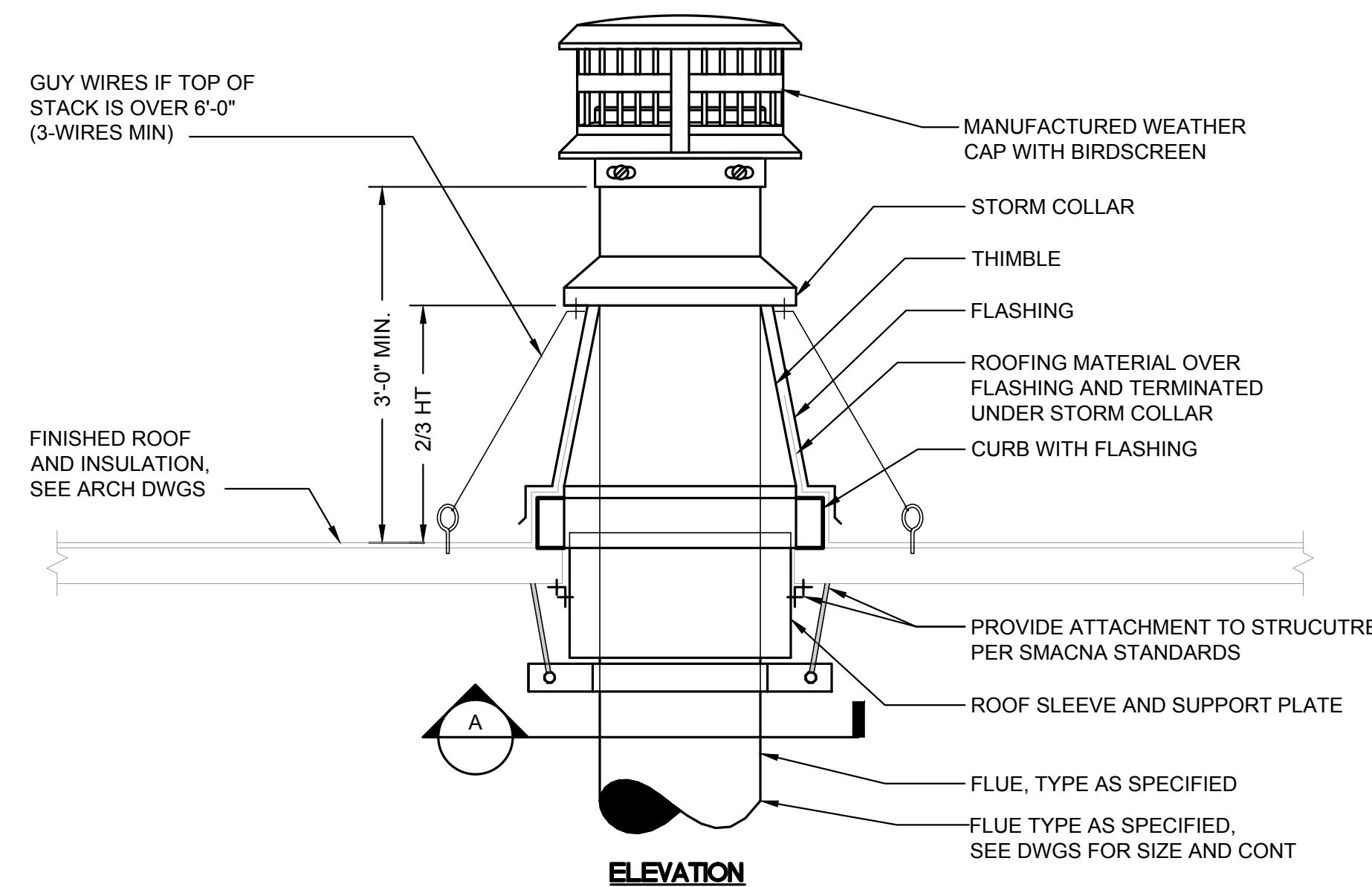


NOTE:  
SEE ARCHITECTURAL  
ROOFING DETAILS FOR  
TYPE OF ROOFING &  
ROOF ELEVATIONS.

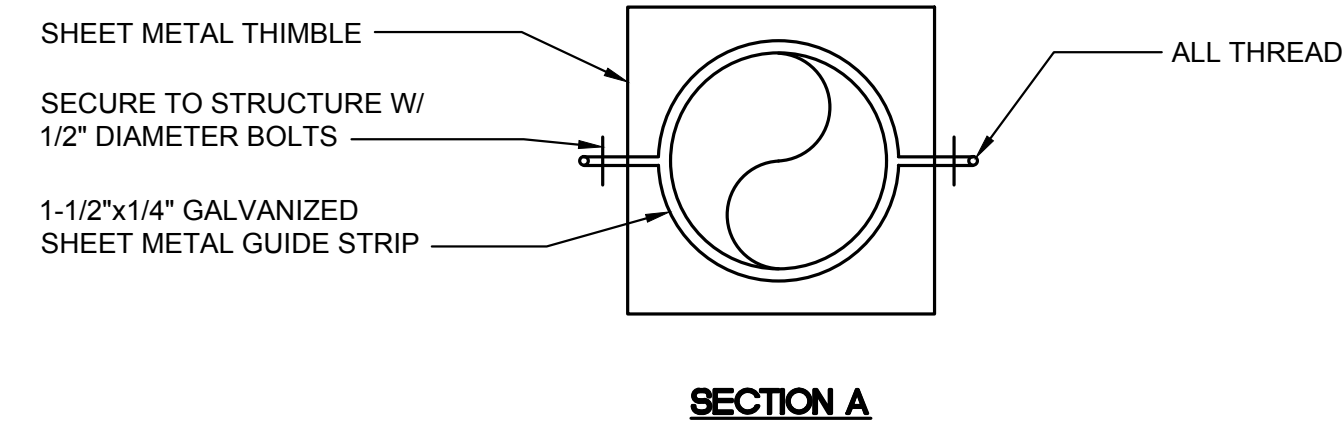
**1**  
M2.01 **DETAIL - ROOF DRAIN**  
SCALE: NONE

**2**  
M2.01 **NOT USED**  
SCALE: NONE

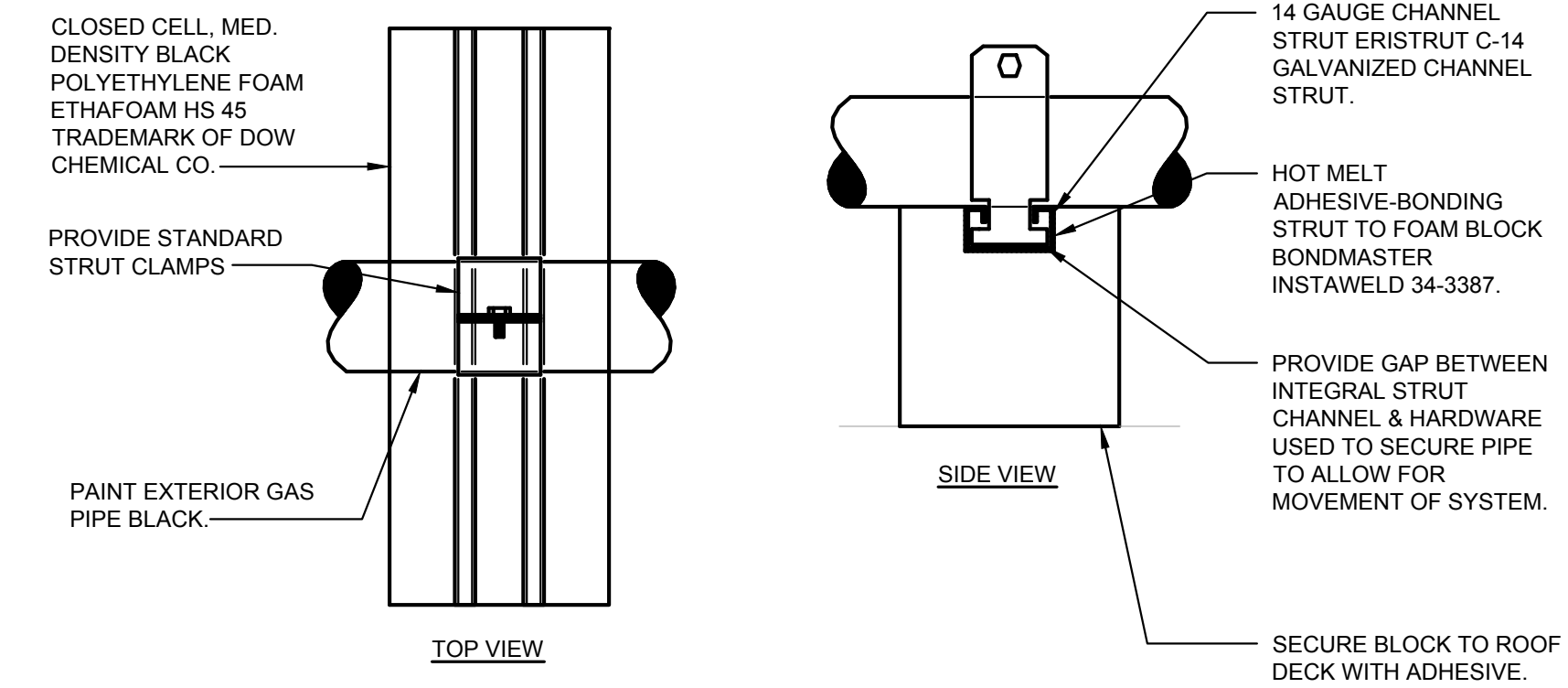
**3**  
M2.01 **NOT USED**  
SCALE: NONE



- NOTES:
1. IF WITHIN 10'-0" OF STRUCTURE (PARAPET, WALL OR ADJACENT BUILDING), EXTEND FLUE 3'-0" ABOVE HIGHEST STRUCTURE.
  2. GAS FLUE VENT SHALL BE AT LEAST 4'-0" FROM EDGE OF ROOF.
  3. MAINTAIN MINIMUM 2" CLEARANCE TO COMBUSTIBLES OR CLEARANCE LISTED BY MANUFACTURER, WHICHEVER IS GREATER.
  4. PROVIDE ANGLE FLASHING AS REQUIRED TO MATCH ROOF SLOPE.

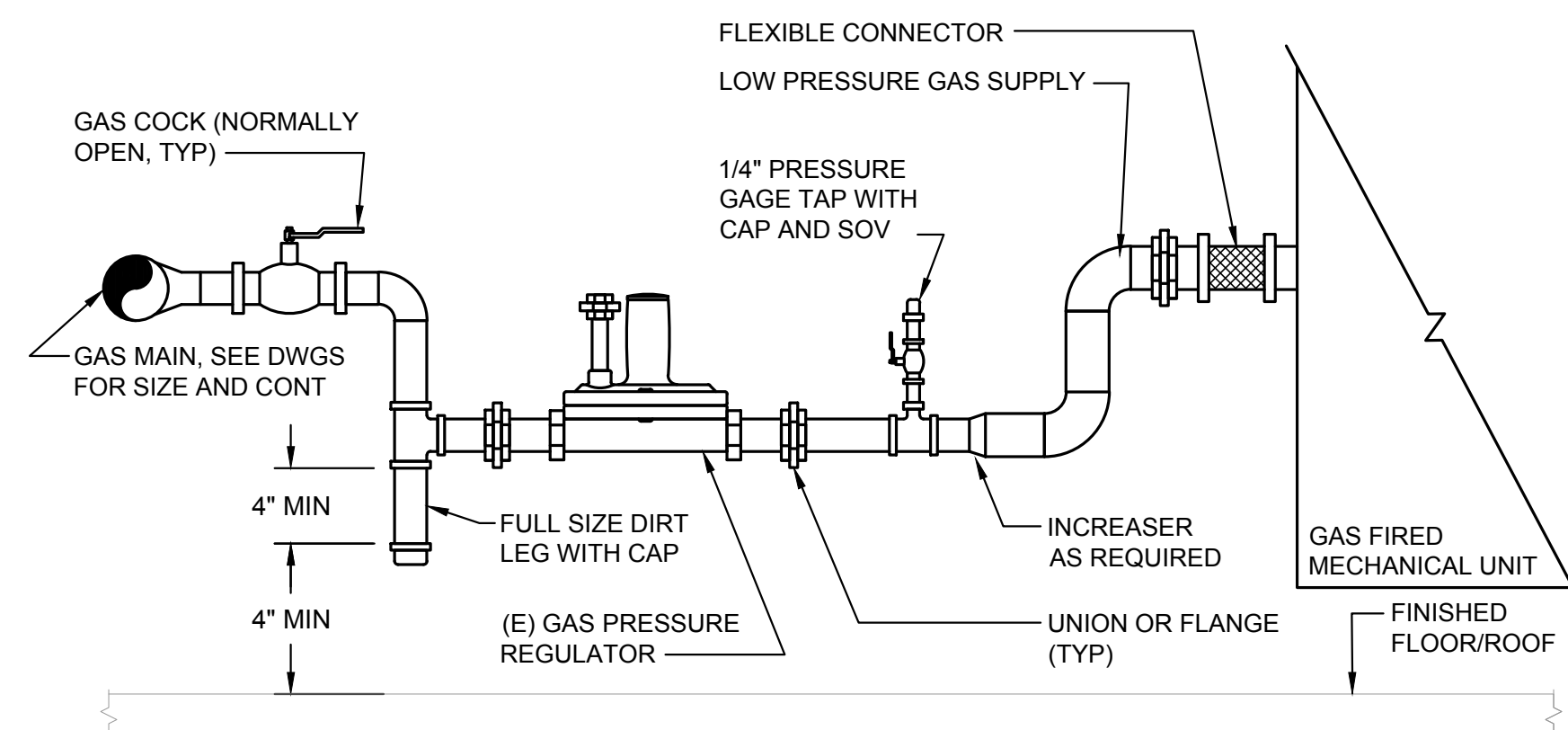


**4**  
M2.01 **DETAIL - FLUE GAS VENT THROUGH ROOF - TYPE B**  
SCALE: NONE



NOTE: FOR SINGLE PIPE APPLICATIONS USING STEEL PIPE OR COPPER TUBING, PROVIDE A MAXIMUM OF 10'-0" BETWEEN SUPPORT BLOCKS. ADDITIONALLY, PROVIDE SUPPORT BLOCK WITHIN 2'-0" OF ANY CHANGE IN DIRECTION. REFER TO MANUFACTURER'S DATA FOR BLOCK SPACING OF MULTIPLE PIPES & PIPES OF DIFFERENT COMPOSITION THAN LISTED ABOVE.

**5**  
M2.01 **DETAIL - ROOF PIPE SUPPORT**  
SCALE: NONE



- NOTES:
1. GAS VENT THROUGH ROOF SHALL BE A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AIR INTAKES.
  2. PROVIDE VENT SIZED PER GAS PRESSURE REGULATOR'S REQUIREMENTS.
  3. SUPPORT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
  4. PROVIDE REGULATOR FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND WHERE SHOWN ON DWGS.

**6**  
M2.01 **DETAIL - GAS FIRED EQUIPMENT CONNECTION**  
SCALE: NONE

**7**  
M2.01 **NOT USED**  
SCALE: NONE