

COLUMBIA HEIGHTS ES REROOF

Longview School District

PERMIT/BID SET

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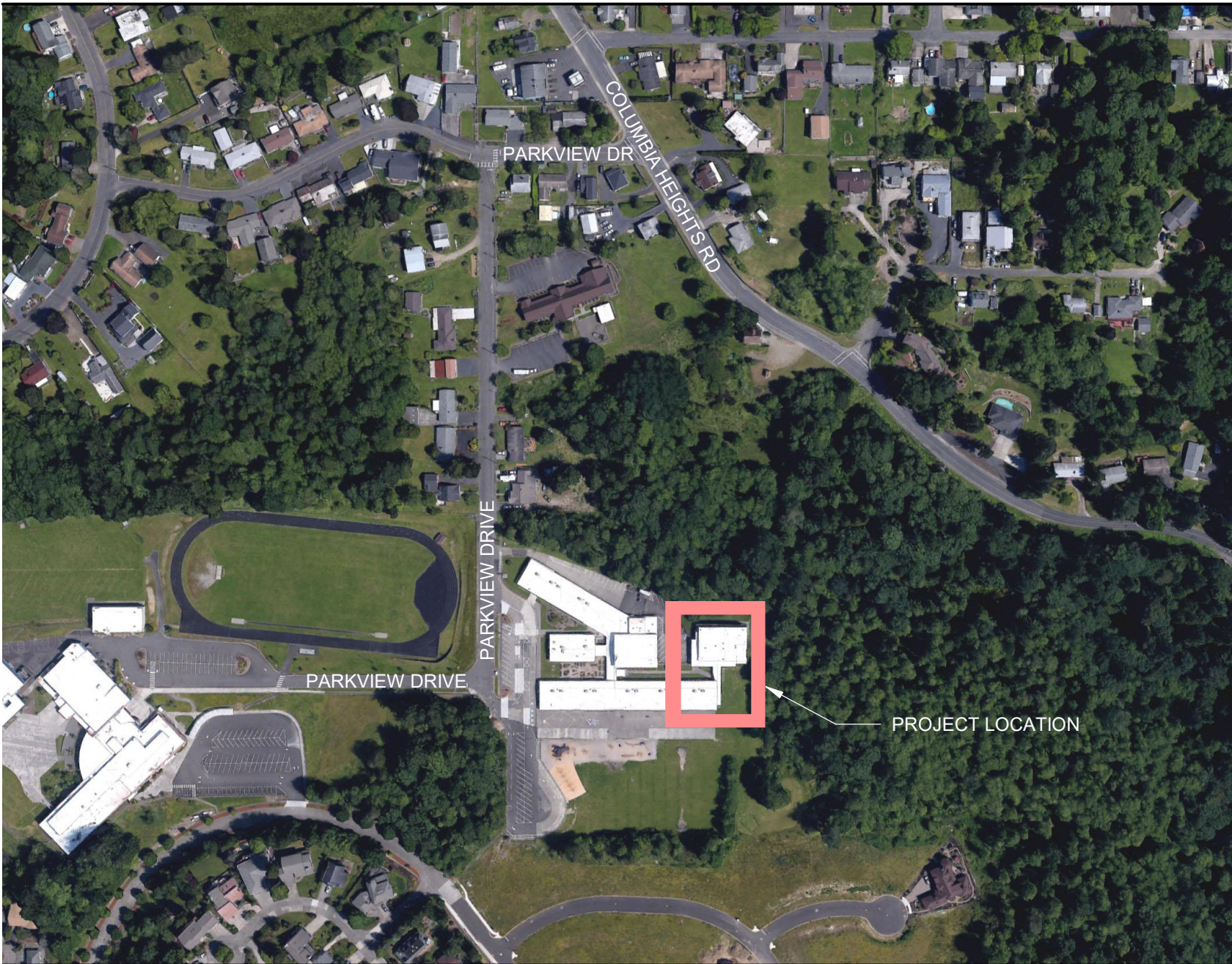
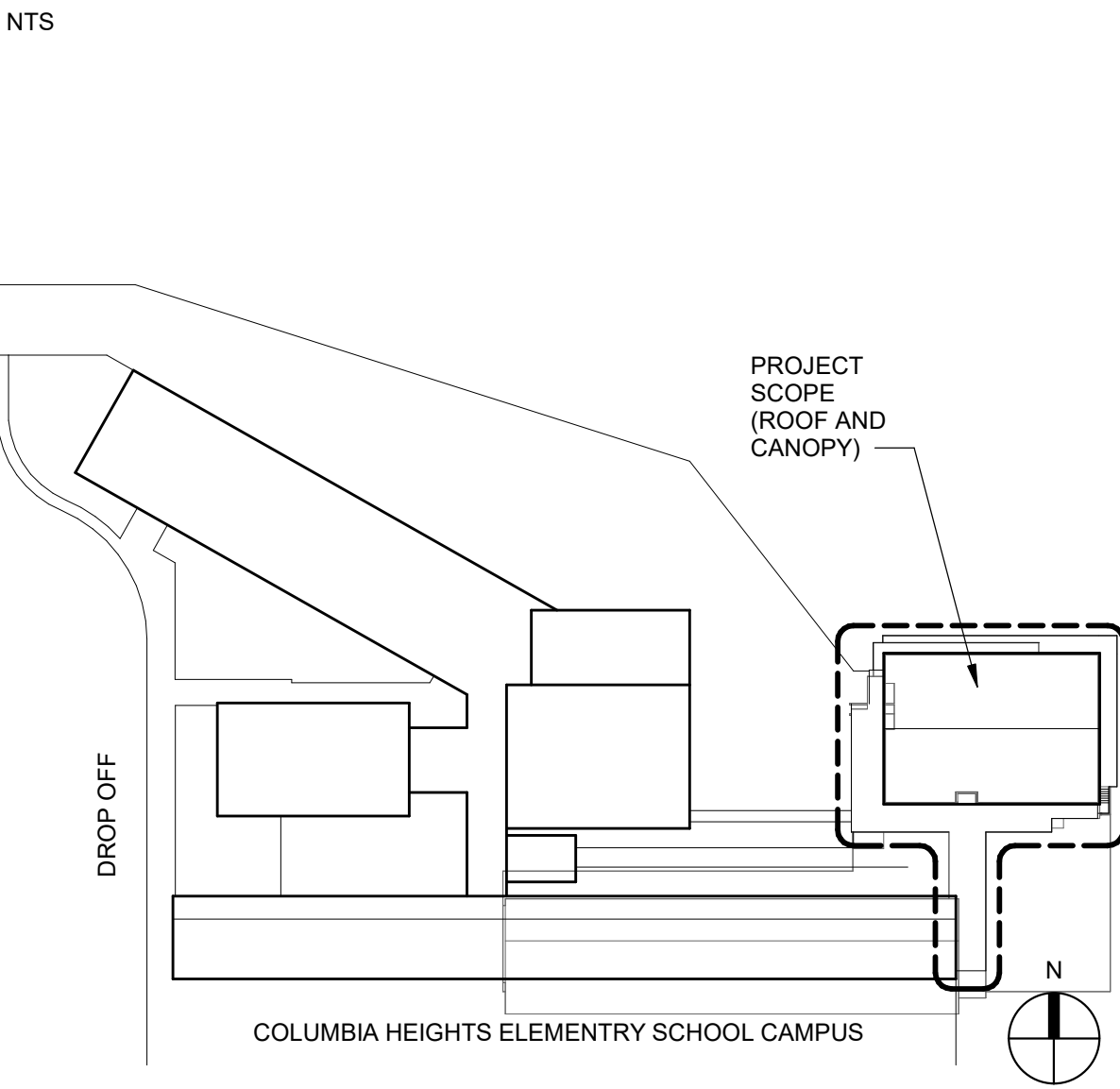
PROJECT DESCRIPTION

REROOF PROJECT FOR A PORTION OF COLUMBIA HEIGHTS ELEMENTARY SCHOOL. CLASSROOM BUILDING WILL RECIEVE A NEW MEMBRANE LAYER AND REPAIR OF CLADDING NEAR THE TOP OF THE BUILDING. THE SURROUNDING CANOPY WILL HAVE MINOR STURCTURAL WORK TO REPAIR DRYROT AND WILL RECIEVE A NEW MEMBRANE ROOF.

CODE INFORMATION

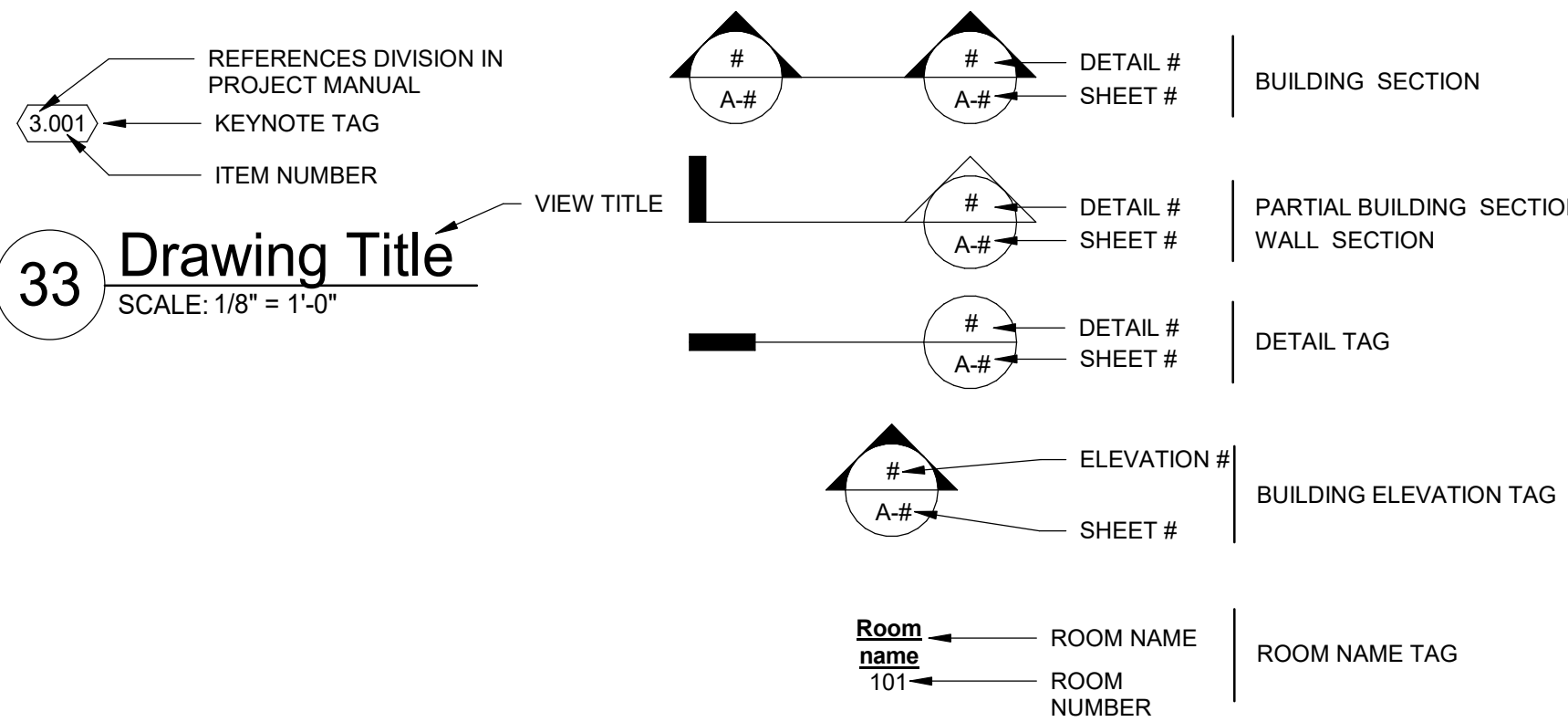
APPLICABLE BUILDING CODES
2021 WASHINGTON STATE BUILDING CODE
2021 WASHINGTON STATE ENERGY CODE
2021 WASHINGTON STATE EXISTING BUILDING CODE
2021 WASHINGTON STATE MECHANICAL CODE
2021 WASHINGTON STATE FIRE CODE

KEY PLAN



VICINITY MAP
NTS

SYMBOL LEGEND AND NOTES



ARCHITECTURAL ABBREVIATIONS

A	ANCHOR BOLT	DWG	DRAWING	HSS	HOLLOW STRUCTURAL SECTION	OWJ	OPEN WEB JOIST	STD	STANDARD
AB	ADJACENT	E	EAST	HT	HEIGHT	OWP	OPERABLE WALL PARTITION	STL	STEEL
AED	AUTOMATED EXTERNAL DEFIBRILLATOR	(E)	EXISTING	HVAC	HEATING/VENTILATION/AIR CONDITIONING			STRT	STOREFRONT
AFF	ABOVE FINISH FLOOR	E	EACH	I	INSIDE DIAMETER	P	PAINT	STRUT	STRUCTURAL
ALT	ALTERNATE	EA	EXPANSION JOINT	ID	INSULATED GLASS UNIT	PED	PEDESTAL	SUSP	SUSPENDED
ALUM	ALUMINUM	EJ	ELEVATION	IGU	INCLUDE	PERF	PERFORATED	SYM	SYMMETRICAL
AP	ACOUSTIC PANELS	EL	ELECTRICAL	INCL	INFORMATION	PERP	PERPENDICULAR		
APPROX	APPROXIMATE	ELEC	ELEVATOR	INFO	INSULATION	PK	PARKING	T	TILE
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	EMERGENCY	INSL	INTERIOR	PL	PLATE	T&G	TONGUE & GROOVE
AUTO	AUTOMATIC	EMER	EXTERIOR PAINT	INT	EQUAL	PLAM	PLASTIC LAMINATE	T/O	TOP OF
AVG	AVERAGE	EP	EQUIP	L	LENGTH, LONG	PLBG	PLUMBING	TB	TOWEL BAR
AWRB	AIR AND WATER-RESISTIVE BARRIER	EQ	ELECTRIC VEHICLE READY	L	LABORATORY	PR	PAIR	TC	TOILET COMPARTMENTS
		EQUIP	ELECTRIC VEHICLE	LAV	LAVATORY	PREFAB	PREFABRICATED	TEMP	TEMPERED
B	BLINDS	ERV	EXTERIOR WOOD	LAV	LAVATORY	PREFIN	PRE-FINISHED	THK	THICK, THICKNESS
BCS	BABY CHANGING STATION	EVD	EXTERIOR WALL PANEL	LB(S)	POUND(S)	PROP	PROPERTY	THRU	THROUGH
BLDG	BUILDING	EWDP	EXPANSION	LVR	LOUVER	PT	PRESSURE TREATED	TPD	TOILET PAPER DISPENSER
BLKG	BLOCKING	EXT	EXTERIOR	M	MIRROR	PTD	PAPER TOWEL DISPENSER	TR	TREAD
BM	BEAM			MAX	MAXIMUM	PTDR	PAPER TOWEL DISPENSER AND RECEPTACLE	TV	TELEVISION
BO	BOTTOM OF	F	FACTORY FINISH	MDF	MEDIUM DENSITY FIBERBOARD	Q	QUANTITY	TYP	TYPICAL
BRG	BEARING	FB	FACE BRICK	MECH	MECHANICAL	QTY		U	URINAL
BUR	BUILT UP ROOF	FC	FIBER CEMENT	MED	MEDIUM	R	RADIUS OR RISER	UON	UNLESS OTHERWISE NOTED
		FD	FLOOR DRAIN	MEZZ	MEZZANINE	RB	RESILIENT BASE		
C	CORNER GUARD	FDN	FOUNDATION	MFR	MANUFACTURER	RCP	REFLECTED CEILING PLAN	V	VERTICAL
CIP	CAST-IN-PLACE	FE	FIRE EXTINGUISHER	MH	MOP HOLDER	RD	ROOF DRAIN	VERT	VERTICAL
CJ	CONTROL JOINT	FEC	FIRE EXTINGUISHER CABINET	MICRO	MICROWAVE	REF	REFERENCE	VIF	VERIFY IN FIELD
CL	CENTER LINE	FIN	FINISH	MIN	MINIMUM	REFR	REFRIGERATOR		
CLG	CEILING	FIP	FOAMED-IN-PLACE	MIP	METAL INFILL PANEL	REIN	REINFORCE	W	WIDTH OR WEST OR WASHER
CLR	CLEAR, CLEARANCE	FLR	FLOOR	MO	MASONRY OPENING	REV	REVISION, REVISED	W/	WITH
CLT	CROSS LAMINATED TIMBER	FO	FACE OF	MP	METAL PANEL	RF	RESILIENT FLOORING	WD	WASHER & DRYER
CMU	CONCRETE MASONRY UNIT	FRP	FIBERGLASS REINFORCEMENT PANEL	MR	MEMBRANE ROOF	RH	ROBE HOOK	WO	WITHOUT
CO	CLEAN OUT	FRT	FIRE RETARDANT TREATED	MTL	METAL	RI	ROOM	WB	WHITE BOARD
COL	COLUMN	FSS	FOLDING SHOWER SEAT	MULL	MULLION	RO	ROUGH OPENING	WC	WALL COVERING OR WATER CLOSET
CONC	CONCRETE	FT	FOOT OR FEET	N	NEW	RS	ROLLER SHADES	WD	WOOD
CONST	CONSTRUCTION	FTG	FOOTING	(N)	NORTH	RTU	ROOF TOP UNIT	WDM	WINDOW
CONT	CONTINUOUS	G	GAUGE, GAGE	NIC	NOT IN CONTRACT	S	SOUTH	WF	WIDE FLANGE
CPT	CARPET	GA	GALVANIZED	NO	NUMBER	S	SELF ADHERED	WOM	WALK OFF MAT
CT	COUNTERTOP	GALV	GRAB BAR	NOM	NOMINAL	SA	SPLASH BLOCK	WWF	WELDED WIRE FABRIC
CTR	CENTER	GB	GENERAL CONTRACTOR	NTS	NOT TO SCALE	SBK	SOLID CORE		
OW	CURTAIN WALL	GC	GLASS OR GLAZING	O	ON CENTER	SCD	SEAT COVER DISPENSER	*	INCHES
		GLU-LAM	GLU-LAMINATED	OC	OVERFLOW DRAIN	SD	SOAP DISPENSER	#	NUMBER
D	DEPTH OR DRYER	QWB	GYPSPUM WALL BOARD	OD	OWNER FURNISHED, CONTRACTOR INSTALLED	SECT	SECTION	%	PERCENT
DBL	DOUBLE	GYP	GYPSPUM	OFOI	OWNER FURNISHED, OWNER INSTALLED	SHT	SHEET	&	AND
DEMO	DEMOLISH, DEMOLITION	H	HOSE BIB	OH	OVERHEAD	SHTG	SHEATHING	/	FOOT
DEP	DEPRESSED	HB	HAND DRYER	OPNG	OPENING	SHWR	SHOWER	@	AT
DET	DETAIL	HDR	HEADER	OPP	OPPOSITE	SM	SIMILAR	±	PLUS OR MINUS
DF	DRINKING FOUNTAIN	HDW	HARDWARE	OTA	OPEN TO ABOVE	SND	SANITARY NAPKIN DISPENSER	°	ANGLE
DIA	DIAMETER	HM	HOLLOW METAL	OTS	OPEN TO STRUCTURE	SQ	SQUARE	Ø	DIAMETER
DIAG	DIAGONAL	HORIZ	HORIZONTAL			SS	STAINLESS STEEL	*	DEGREE
DM	DIMENSION	HR	HOUR			ST	STONE	*	SEE NOTES
DN	DIVISION					STC	SOUND TRANSMISSION CLASS	-	NONE
DN	DOWN								
DR	DOOR								
DS	DOWNSPOUT								
DTL	DETAIL								
DW	DISHWASHER								

LONGVIEW SCHOOL DISTRICT

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ARCHITECT

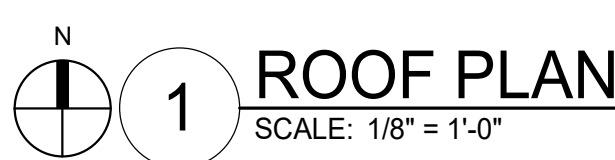
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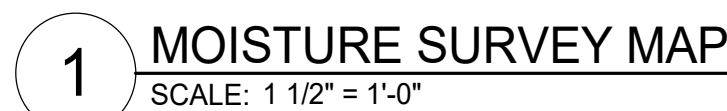
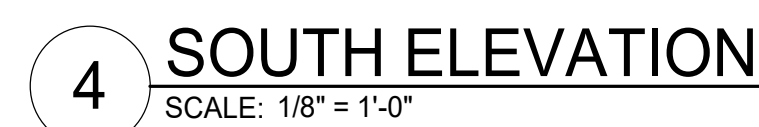
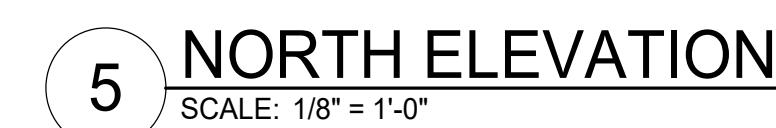
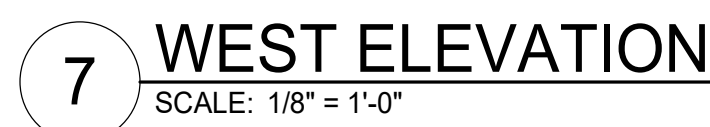


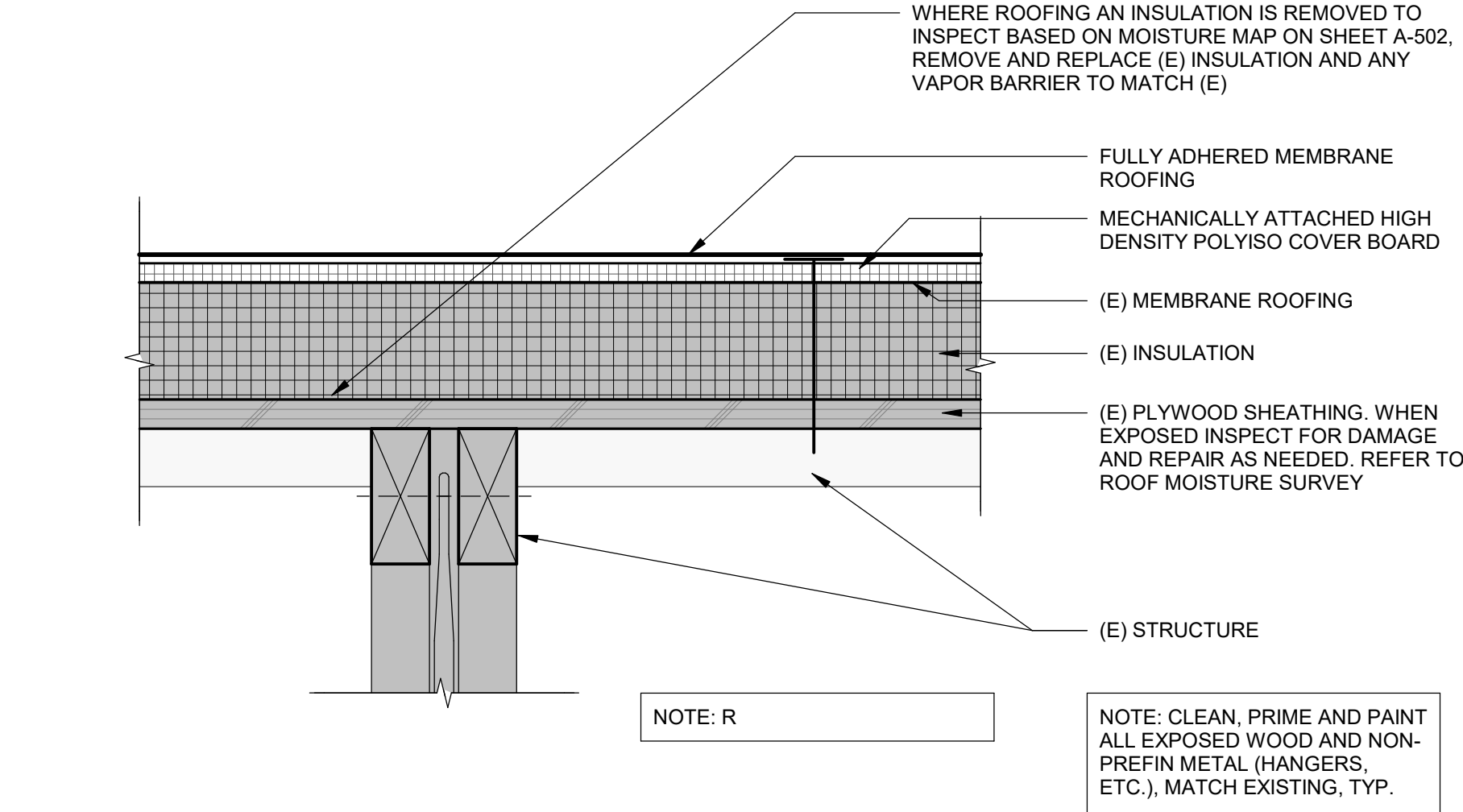
STRUCTURAL ENGINEERING

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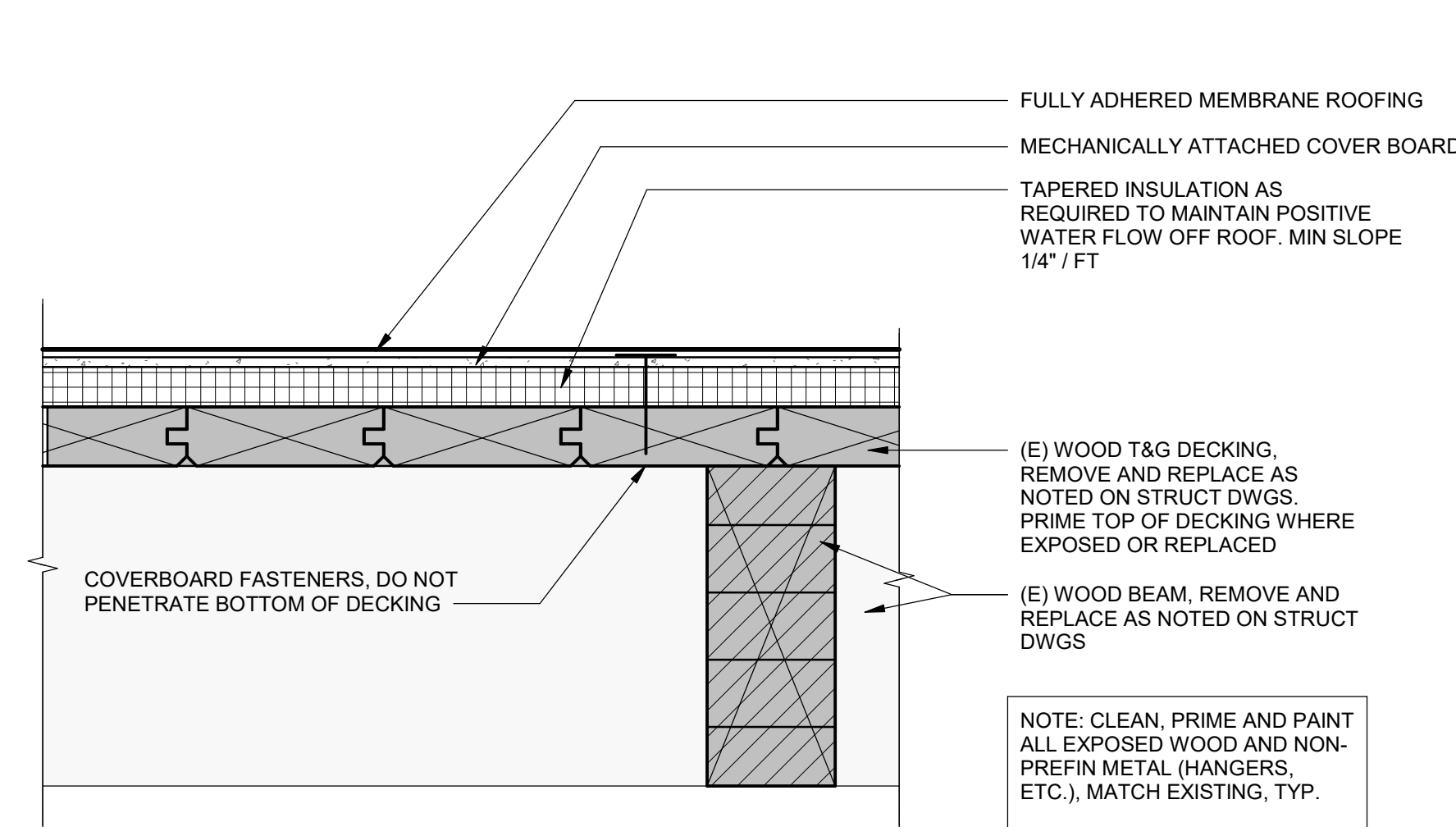




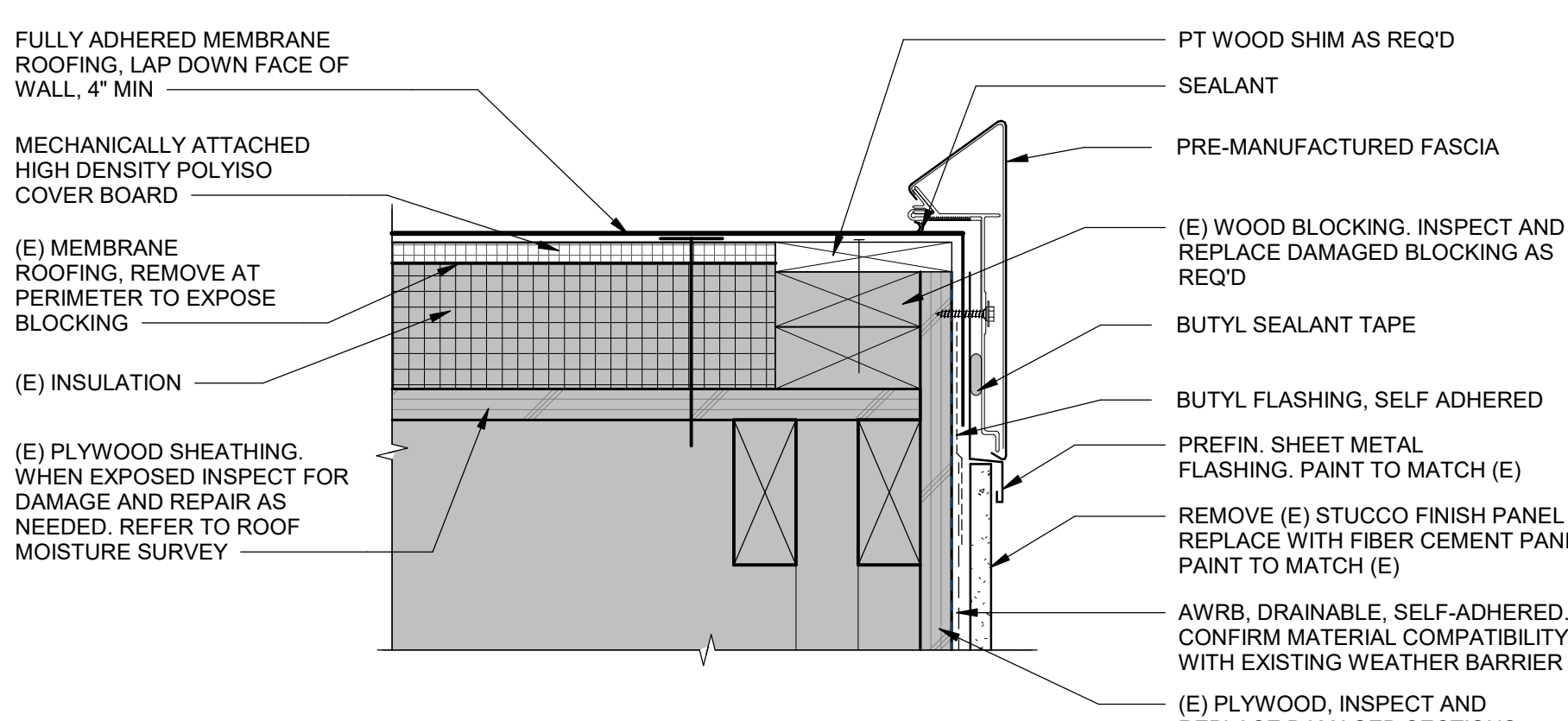




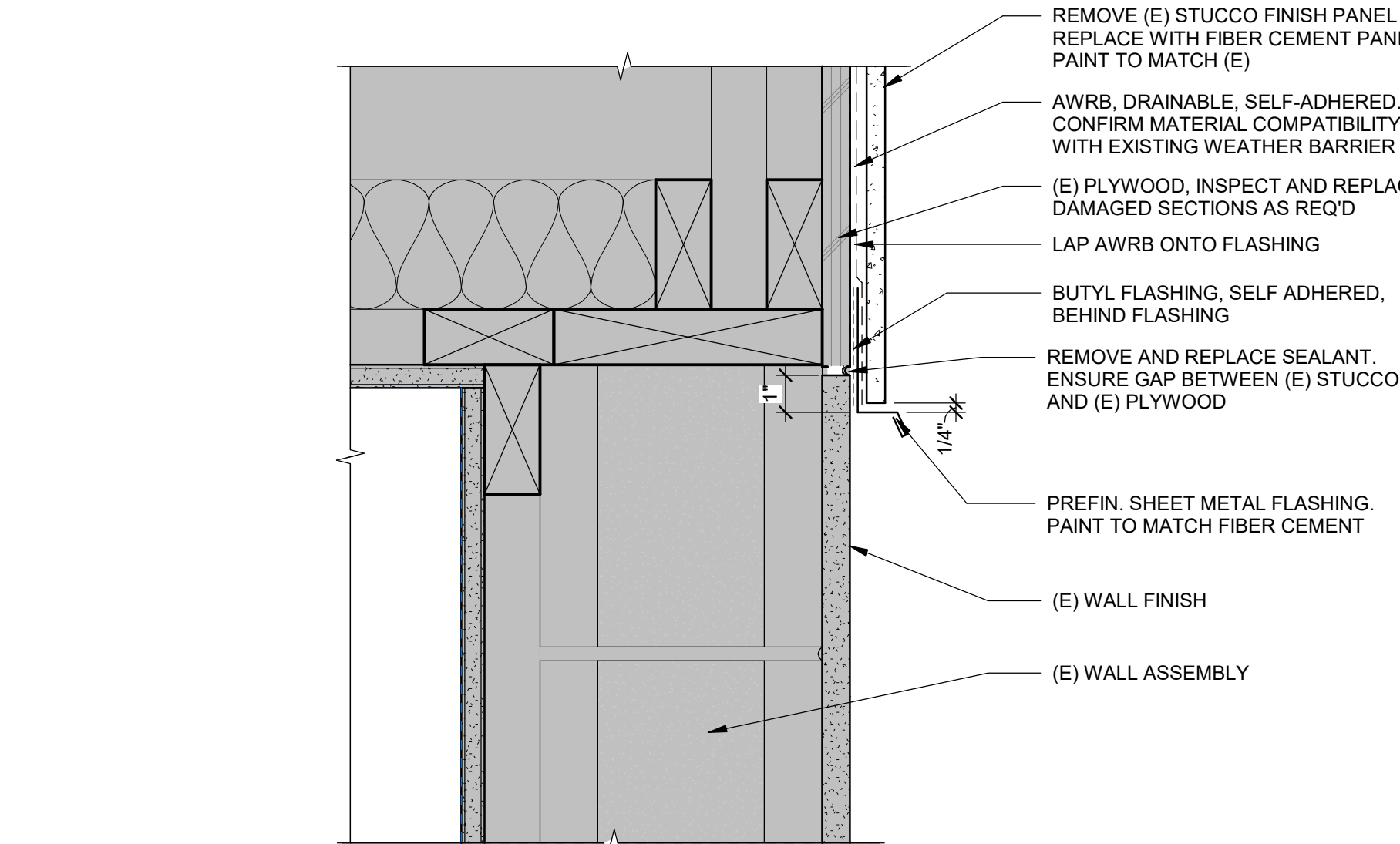
1 ROOF ASSEMBLY - R1
SCALE: 3" = 1'-0"



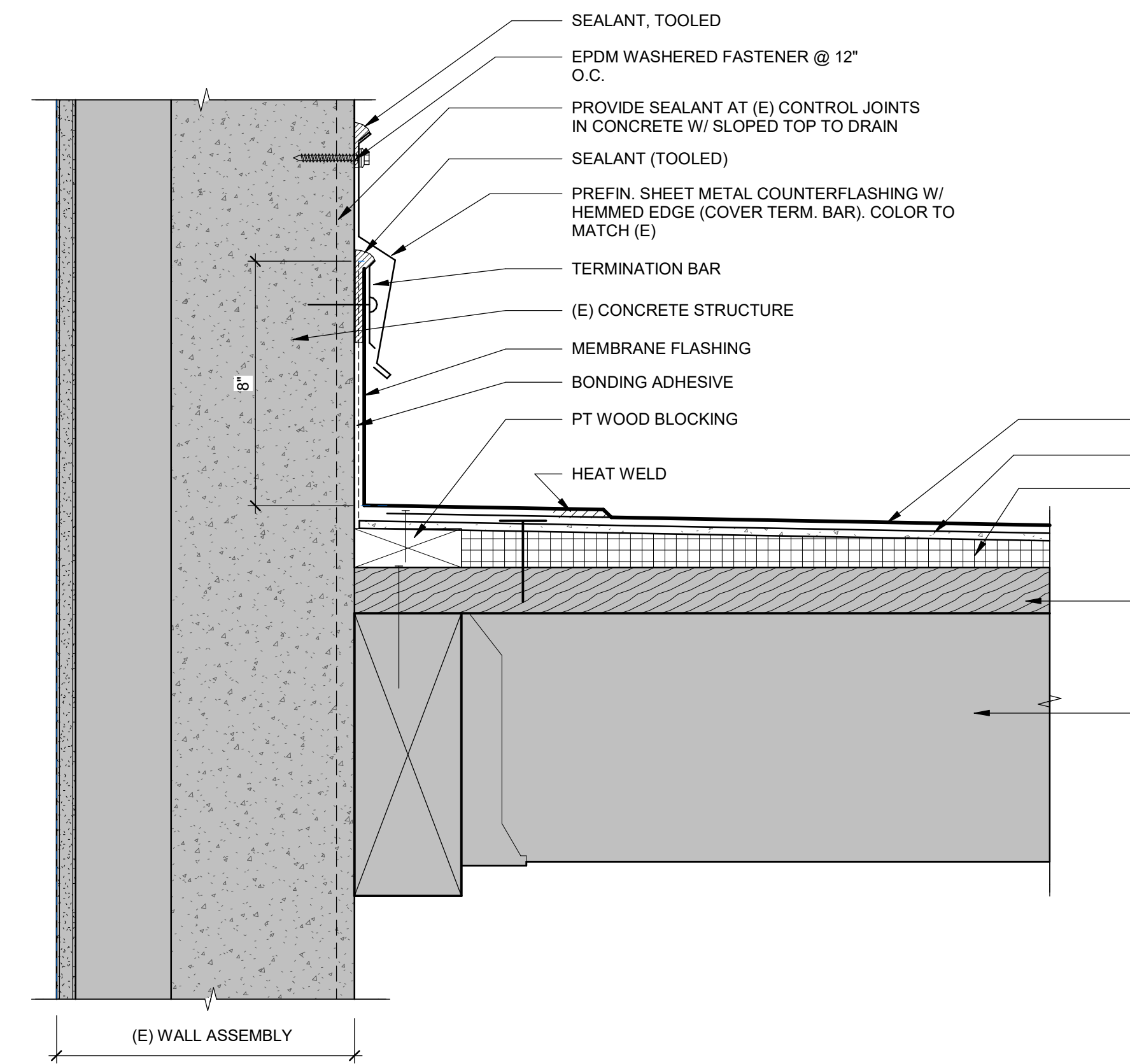
2 ROOF ASSEMBLY - R2
SCALE: 3" = 1'-0"



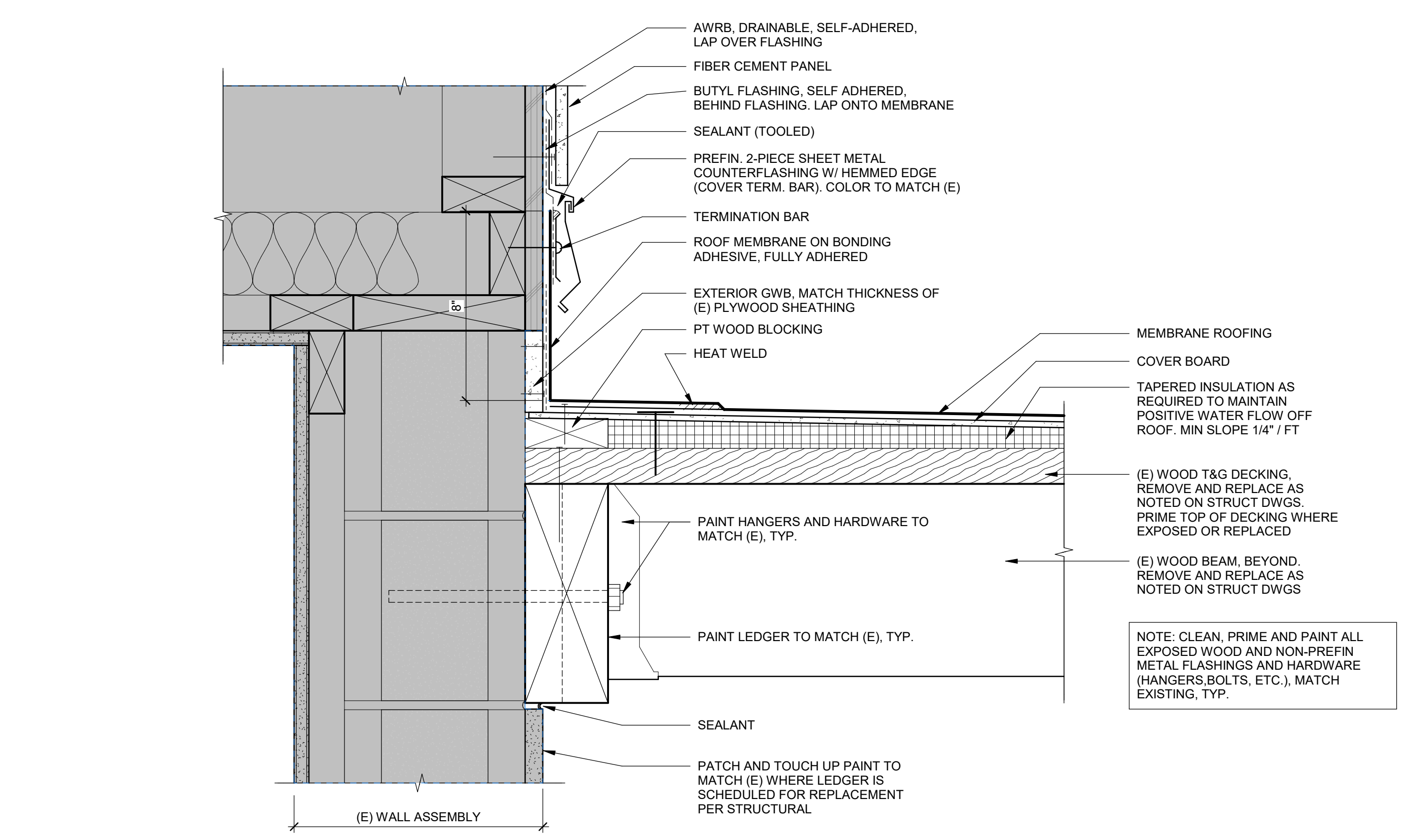
5 ROOF DETAIL AT UPPER CLADDING TOP
SCALE: 3" = 1'-0"



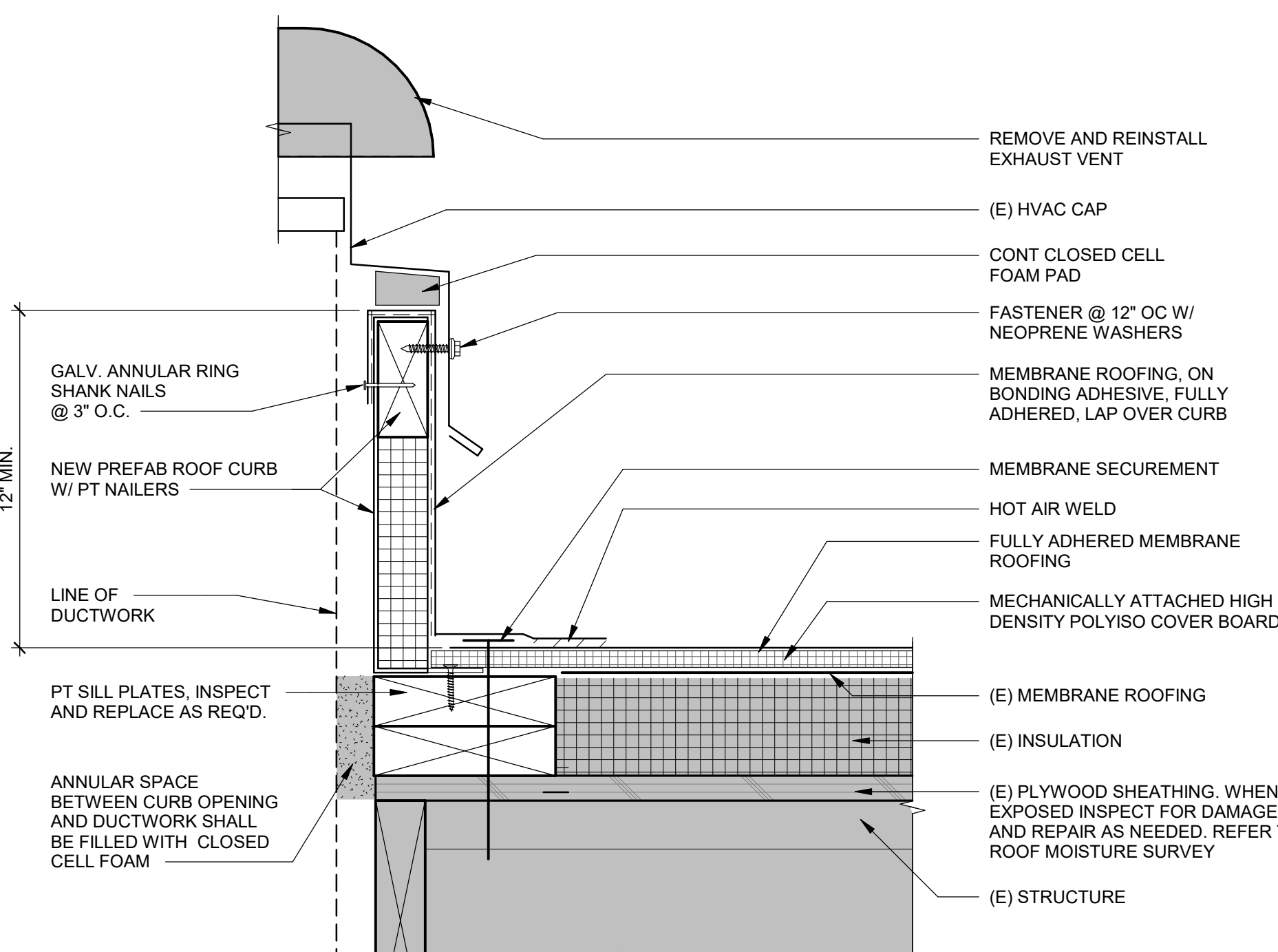
9 ROOF DETAIL AT UPPER CLADDING BASE
SCALE: 3" = 1'-0"



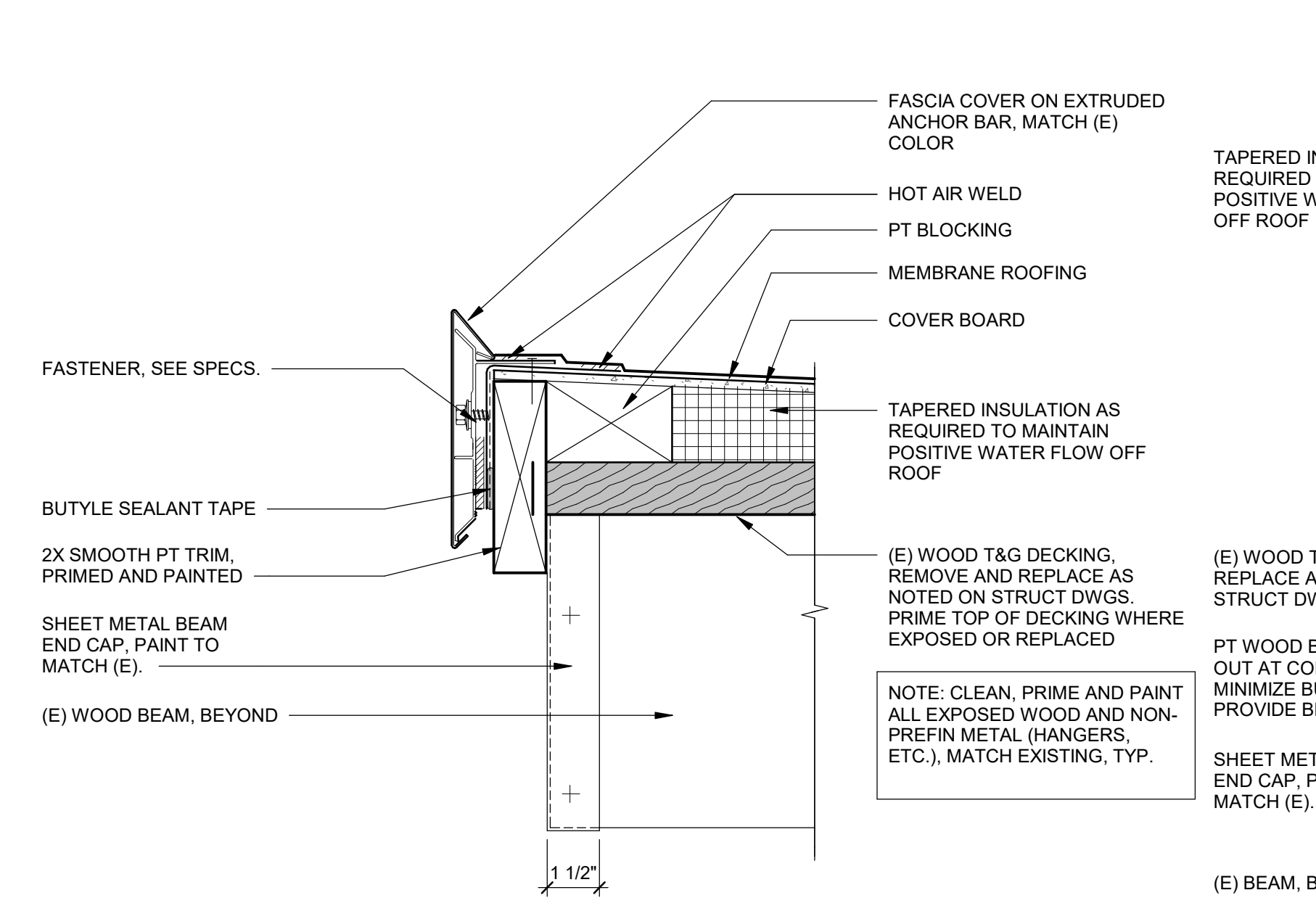
10 ROOF DETAIL AT SOUTH BUILDING
SCALE: 3" = 1'-0"



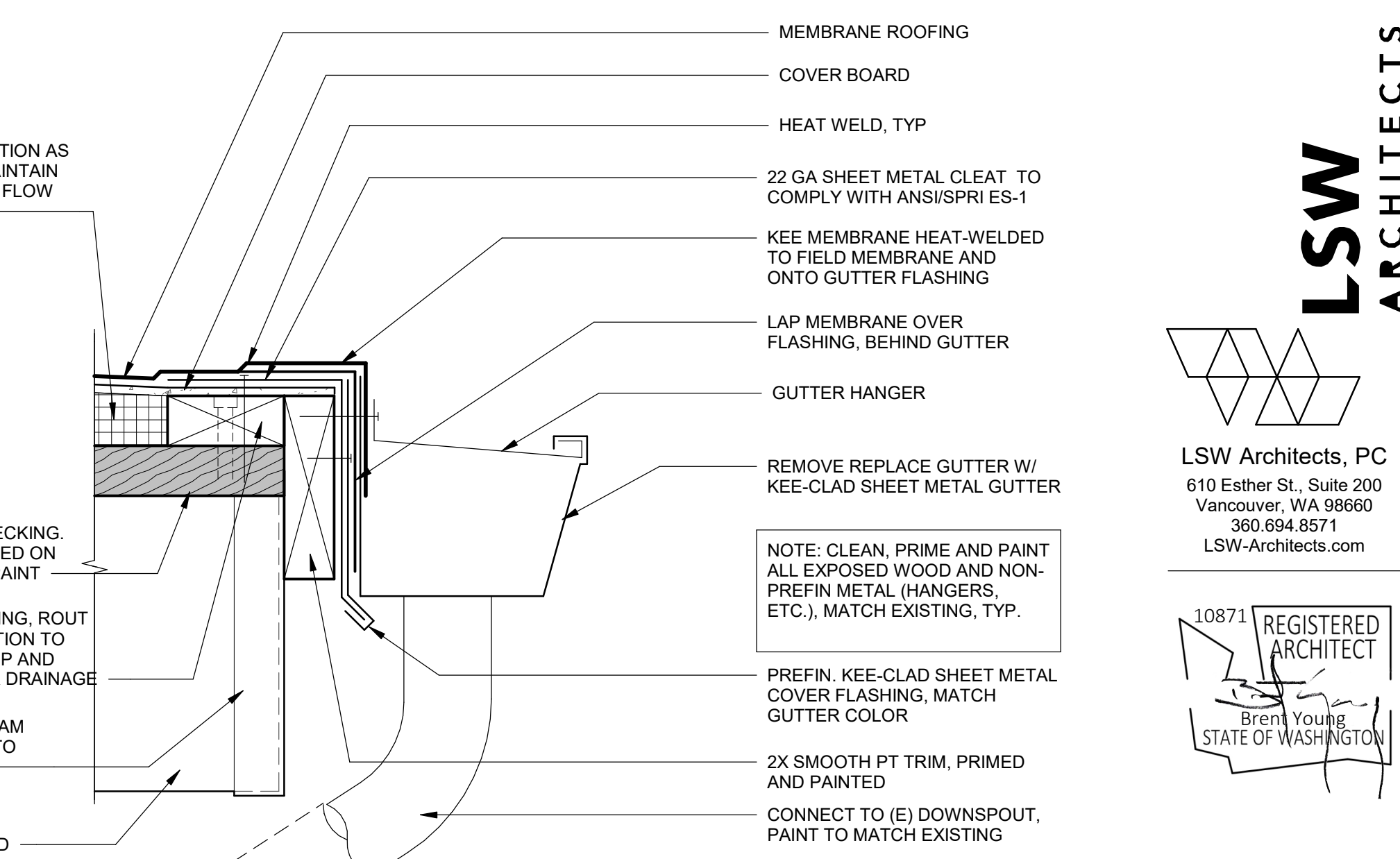
17 ROOF DETAIL AT UPPER CLADDING & CANOPY
SCALE: 3" = 1'-0"



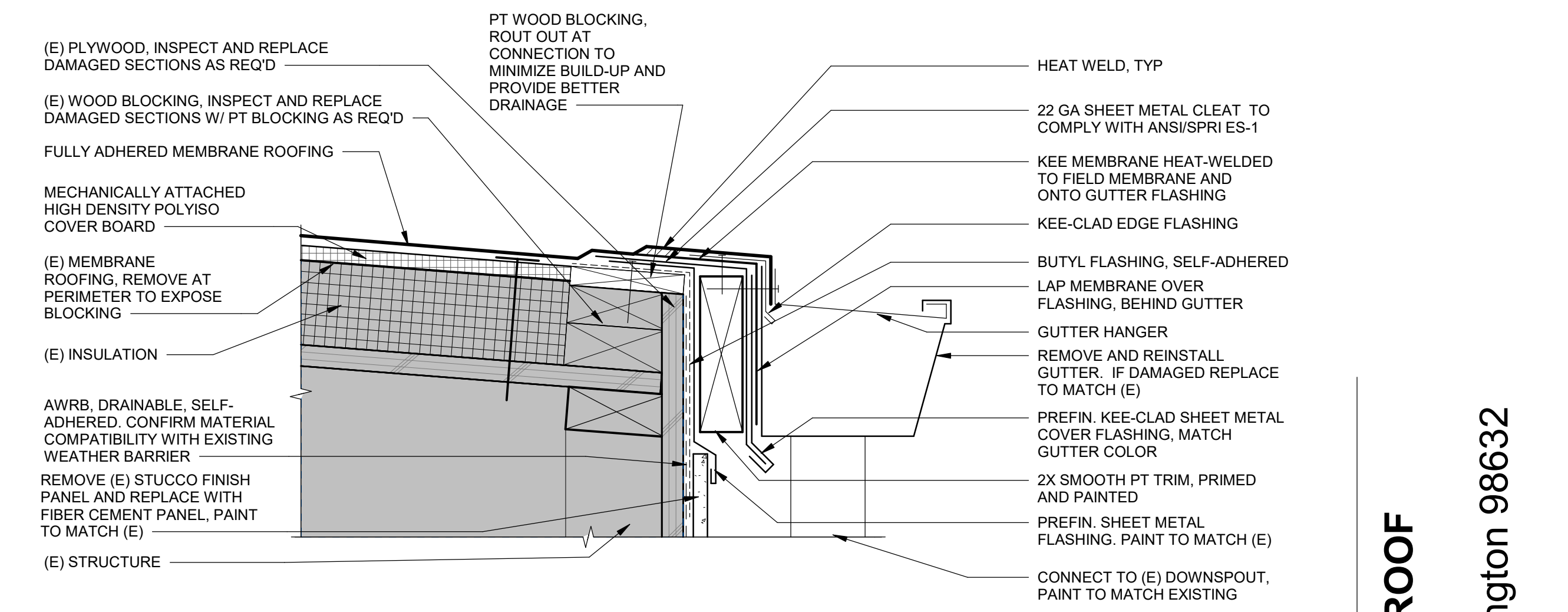
19 MECHANICAL CURB - EXHAUST FAN
SCALE: 3" = 1'-0"



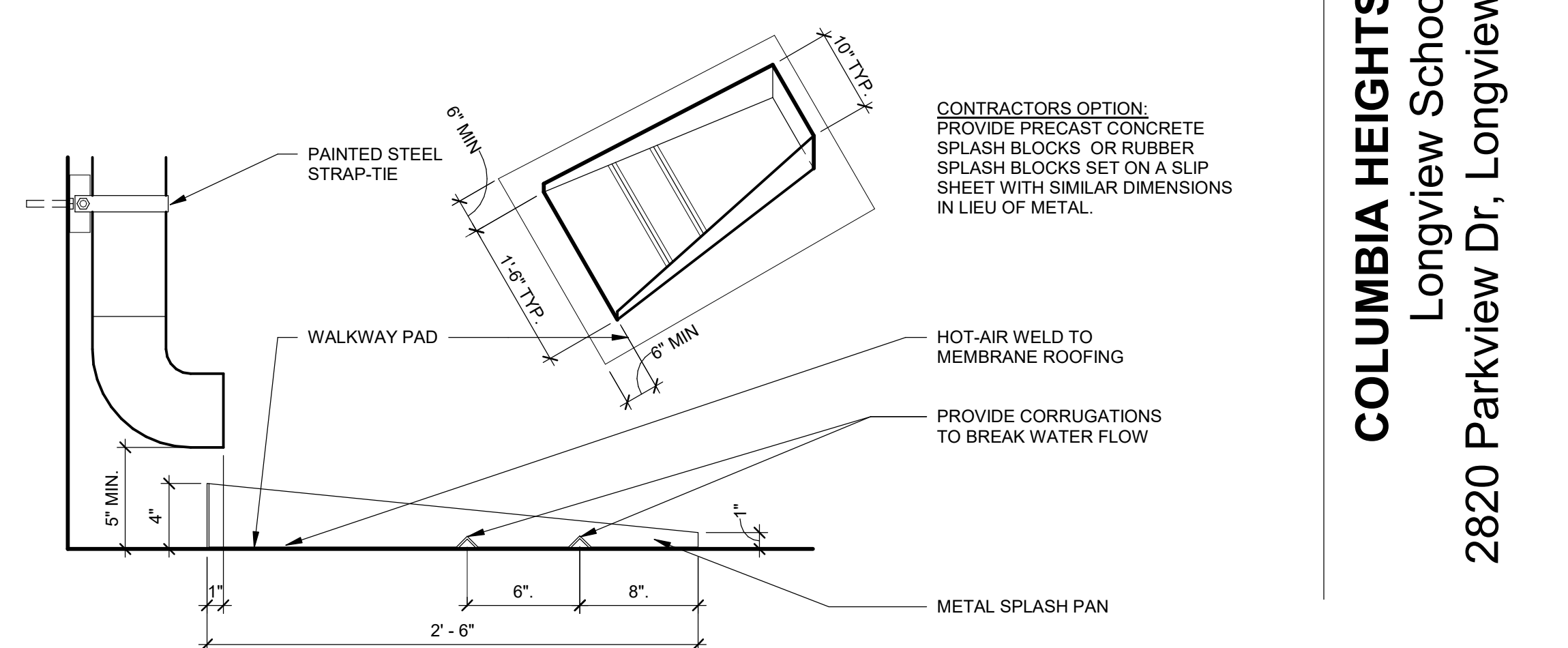
3 DETAIL AT CANOPY EDGE
SCALE: 3" = 1'-0"



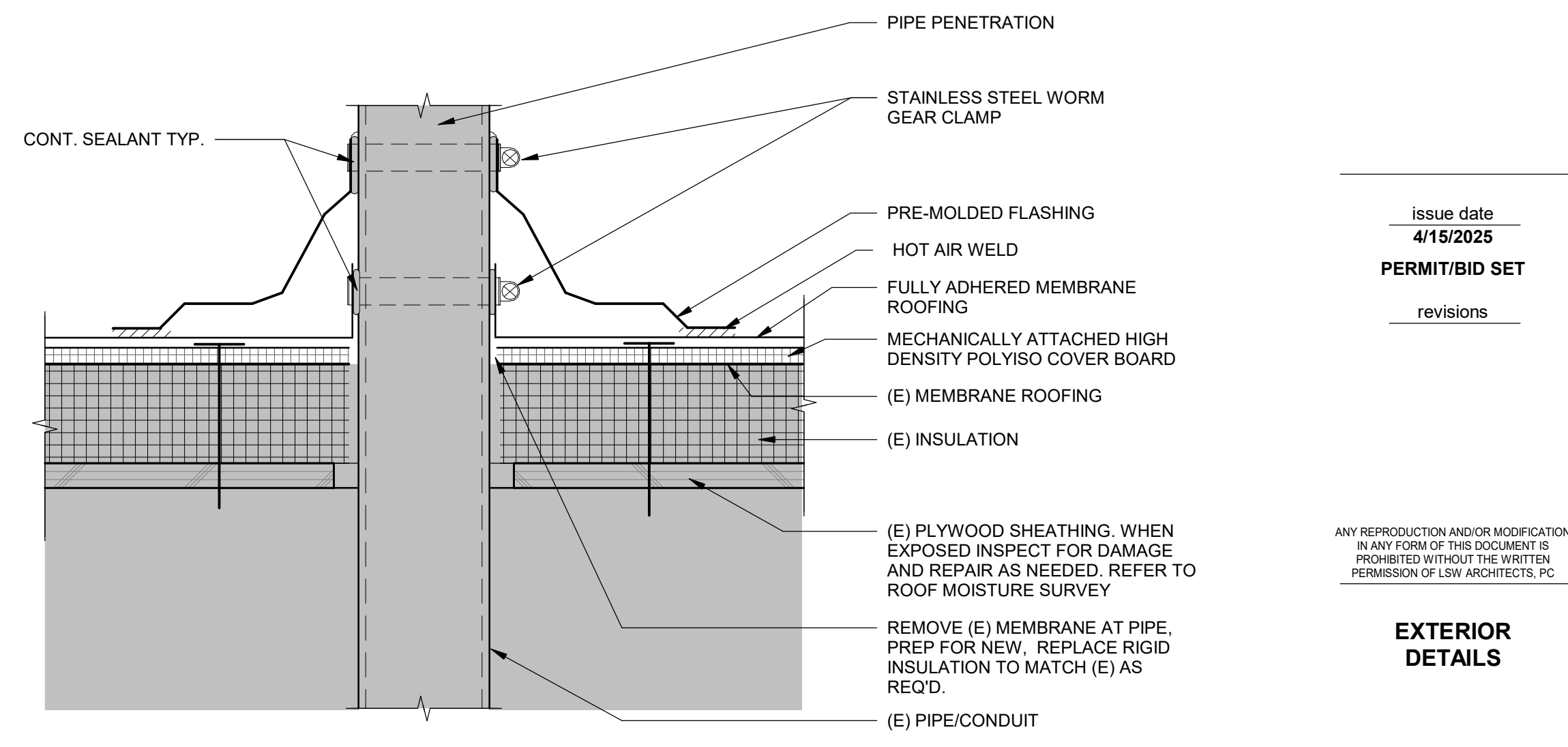
4 DETAIL AT CANOPY GUTTER
SCALE: 3" = 1'-0"



6 ROOF DETAIL AT UPPER CLADDING GUTTER
SCALE: 3" = 1'-0"



16 SPLASH PAN
SCALE: 1 1/2" = 1'-0"

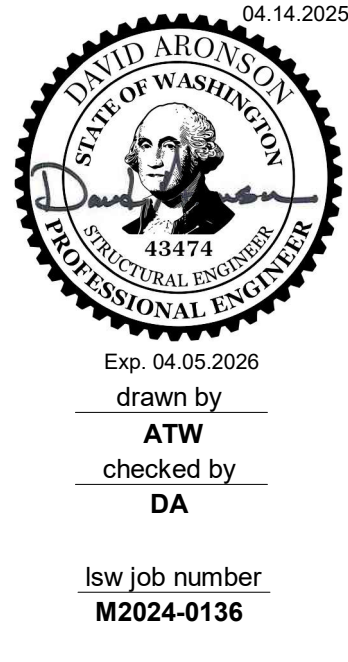
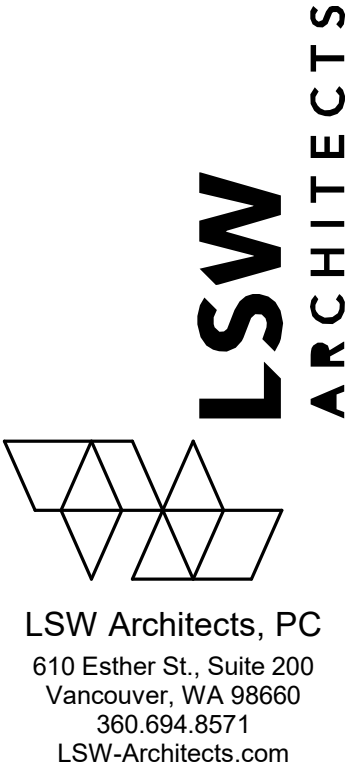


20 ROOF PENETRATION PREFABRICATED
SCALE: 3" = 1'-0"

Columbia Heights E.S. - Walkway Improvements

2820 Parkview Dr.
Longview, WA 98632

PERMIT SET
April 15, 2025



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ABBREVIATIONS:					
&	AND	EA	EACH	MAX	MAXIMUM
L or L	ANGLE	EE	EACH END	MB	MACHINE BOLT
@	AT	EF	EACH FACE	MECH	MECHANICAL
CL or	CENTERLINE	ELEV	ELEVATION	MF	MOMENT FRAME
DIA or	DIAMETER	EMB	EMBEDMENT	MFR	MANUFACTURER
#	NUMBER or POUND	EN	EDGE NAILING	MIN	MINIMUM
or //	PARALLEL	EOR	ENGINEER OF RECORD	MISC	MISCELLANEOUS
	PERPENDICULAR	EQ	EQUAL	MTL	METAL
PL or	PLATE (STEEL)	ES	EACH SIDE		
		EW	EACH WAY	(N)	NEW
AB	ANCHOR BOLT	EXIST or (E)	EXISTING	N	NORTH
ADDL	ADDITIONAL	EXP	EXPANSION	No	NUMBER
ADJ	ADJACENT	EXT	EXTERIOR	NS	NEAR SIDE
AGGR	AGGREGATE			N-S	NON-SHRINK
ALT	ALTERNATE			NTS	NOT TO SCALE
APPROX	APPROXIMATE(LY)	FF	FINISH FLOOR		
ARCH	ARCHITECTURAL	FIN	FINISH	oc	ON CENTER
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	FLR	FLOOR	OD	OUTSIDE DIAMETER
		FND	FOUNDATION	OPNG	OPENING
		FOS	FACE OF CONCRETE	OPP	OPPOSITE
		FRMG	FRAMING	OWSJ	OPEN WEB STEEL JOIST
BF	BRACED FRAME	FRT	FIRE RETARDANT TREATED		
BLDG	BUILDING	FS	FAR SIDE	PAF/PDF	POWDER ACTUATED / DRIVEN FASTENERS
BLKG	BLOCKING	FT	FEET (FOOT)	PEN	PANEL EDGE NAILING
BM	BEAM	FTG	FOOTING	PERP	PERPENDICULAR
BO	BOTTOM OF			PLYWD or PLY	PLYWOOD
BOT	BOTTOM	GA	GAUGE (GAGE)	PNL	PANEL
BRB	BUCKLING RESTRAINED BRACE	GL	GLU-LAM	PSF	POUNDS PER SQUARE FOOT
BRG	BEARING	GLB	GLU-LAM BEAM	PSI	POUNDS PER SQUARE INCH
BTWN	BETWEEN	GN	GANG NAIL		
		GR	GRADE	R	RADIUS
CJ	CONTROL JOINT	GRND	GROUND	REF	REFERENCE
CLG	CEILING			REINF	REINFORCE(D)(ING)
CLR	CLEAR(ANCE)	HD	HOLDOWN	REQ or REQD	REQUIRED
CMU	CONCRETE MASONRY UNIT	HDG	HOT DIPPED GALVANIZED	REV	REVISE or REVISION
COL	COLUMN	HDR	HEADER	RTNS	RETURNS
CONC	CONCRETE	HK	HOOK		
CONN	CONNECTION	HORIZ	HORIZONTAL	SAD	SEE ARCHITECTURAL DRAWINGS
CONST	CONSTRUCTION	HS	HEADED STUD	SCBF	SPECIAL CONCENTRIC BRACED FRAME
CONT	CONTINUOUS	HSS	HOLLOW STRUCTURAL SECTION	SCHED	SCHEDULE
CP	COMPLETE PENETRATION	HT	HEIGHT	SDSM	SELF DRILLING SHEET METAL
CSK	COUNTERSUNK			SECT	SECTION
CTR	CENTER	IBC	INTERNATIONAL BUILDING CODE	SEOR	STRUCTURAL ENGINEER OR RECORD
		ICC	INTERNATIONAL CODE COUNCIL	SF	SQUARE FEET
		ID	INSIDE DIAMETER	SHT	SHEET
		IN	INCH(ES)	SHTG	SHEATHING
				SIM	SIMILAR
		JST	JOIST	SIMP or (S)	SIMPSON
		JT	JOINT		
				SMRF	SPECIAL MOMENT RESISTING FRAME
		LAG	LAG BOLT	SMS	SHEET METAL SCREW
		LLH	LONG LEG HORIZONTAL	SN	SILL NAILING
		LLV	LONG LEG VERTICAL	SOG	SLAB ON GRADE
DWG	DRAWING	LMPT	LIGHT METAL PLATE TRUSS	SPEC	SPECIFICATION
DWL(S)	DOWEL(S)	LONG	LONGITUDINAL	SQ	SQUARE

DESIGN STANDARD	
2021 INTERNATIONAL BUILDING CODE (IBC) WITH THE 2021 WASHINGTON STATE AMENDMENTS	
DESIGN CRITERIA	
1. DESIGN ALL LOADS FOR NEW CONSTRUCTION, UNLESS NOTED OTHERWISE.	
2. LIVE LOADS	
3. SNOW LOADS	20 PSF MINIMUM (REDUCIBLE ACCORDING TO INTERNATIONAL BUILDING CODE REQUIREMENTS)
A. BALANCED SNOW LOAD:	28 PSF
B. GROUND SNOW LOAD:	P _g = 30 PSF
C. FLAT-ROOF SNOW LOAD:	P _f = 28 PSF
D. SNOW EXPOSURE FACTOR:	C _e = 1.0
E. SNOW LOAD IMPORTANCE FACTOR:	I _s = 1.1
F. THERMAL FACTOR:	C _t = 1.2
G. SNOW BUILD-UP:	ASCE 7
4. WIND DESIGN DATA: INTERNATIONAL BUILDING CODE ASCE 7	
A. ULTIMATE DESIGN WIND SPEED:	V _{ult} = 103 MPH
B. NOMINAL DESIGN WIND SPEED:	V _{nat} = 80 MPH
C. RISK CATEGORY:	III
D. EXPOSURE:	B
E. INTERNAL PRESSURE COEFFICIENT:	GC _p = +/-0 (OPEN)
F. EXTERIOR COMPONENT AND CLADDING DESIGN WIND PRESSURES:	
COMPONENT AND CLADDING NET DESIGN PRESSURES	
ROOF	±25 PSF (ULT), ±15 PSF (ASD)
NOTES:	
a. POSITIVE SIGNS SIGNIFY PRESSURE ACTING TOWARD THE EXTERIOR SURFACE	
b. NEGATIVE SIGNS SIGNIFY PRESSURES ACTING FROM THE EXTERIOR SURFACE	
c. PRESSURES SHOWN ARE CALCULATED p ² < A _{wp} ≤ 44 ² . PRESSURES MAY BE REDUCED FOR ELEMENTS WITH LARGER EFFECTIVE AREAS, PER ASCE 7.	

GENERAL	
1. THESE STRUCTURAL NOTES ARE A SUPPLEMENT TO THE SPECIFICATIONS.	
2. SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY.	
3. VERIFY DIMENSIONS AND CONDITIONS WITH THE ARCHITECTURAL DRAWINGS. FIELD VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS.	
4. FOR FEATURES OF CONSTRUCTION NOT FULLY SHOWN, PROVIDE THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.	
5. APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.	
6. ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.	
7. SUBMITTALS:	
A. SUBMIT SHOP DRAWINGS FOR:	
a. GLUE LAMINATED MEMBERS	

POST-INSTALLED ANCHORS		
FOR ANCHORS ON THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT TYPE OR MANUFACTURER, THE CONTRACTOR SHALL USE APPROVED ANCHORS SPECIFIED IN THE TABLE BELOW.		
1. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT APPROVALS SHOWN BELOW, UNLESS NOTED OTHERWISE.		
2. NO SUBSTITUTIONS SHALL BE MADE FOR POST-INSTALLED ANCHORS SHOWN ON THE CONSTRUCTION DOCUMENTS WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT OCCURS, DEMONSTRATING THAT THE PROPOSED ANCHORS HAVE PERFORMANCE VALUES EQUIVALENT TO OR HIGHER THAN THOSE SHOWN ON THE DRAWINGS.		
ITEM	APPROVED PRODUCTS	ICC#
ADHESIVE ANCHOR (GROUTED MASONRY)	HILTI HIT HY 70 SIMPSON SET-3G DEWALT AC108+ GOLD	ESR-2682 ESR-4844 ESR-3200

WOOD DECKING	
1. DECKING MATERIAL:	
A. SPECIES:	DOUGLAS FIR-LARCH
B. GRADE:	SELECT DECK QUALITY
C. 2" NOMINAL THICKNESS.	
D. GRADED ACCORDING TO WPPA STANDARDS.	
E. KILN-DRIED.	
F. SIDE MATCHED.	
2. INSTALL DECKING IN AITC CONTROLLED RANDOM PATTERN.	
3. NAIL ACCORDING TO SCHEDULE AND DRAWINGS.	

GLUE LAMINATED MEMBERS	
1. MEMBER SPECIES: WESTERN	
2. MEMBER GRADE:	
A. SAMPLE SPANS: 24F-V4	
B. CONTINUOUS OR CANTILEVERED SPANS: 24F-V8.	
3. MATERIAL STANDARDS:	
A. ALLOWABLE STRESSES: AITC 117.	
B. MANUFACTURE AND FABRICATION: AITC A190.1	
4. MANUFACTURE AND FABRICATION:	
A. FABRICATE WITH WATERPROOF GLUES.	
B. SHAPE TOP OF MEMBERS TO ROOF SLOPE. ADD LAMINATIONS AS REQUIRED FOR SHAPING.	
C. PROVIDE STANDARD 3500 FOOT RADIUS CAMBER, UNLESS NOTED OTHERWISE ON DRAWINGS.	
5. IDENTIFY MEMBERS WITH THE APA-EWS MARK OF AMERICAN WOOD SYSTEMS OR MEMBER INSPECTION IS REQUIRED BY AN INDEPENDENT TESTING LAB.	
6. ERECT MEMBERS ACCORDING TO AITC SPECIFICATIONS.	

NAILING AND CONNECTION SCHEDULE	
1. MINIMUM NUMBER OF NAILS FOR WOOD MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS.	
2. NAILS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE DOUBLE HOT DIPPED GALVANIZED EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT PRESERVATIVE TREATMENT.	
3. NAIL TYPE: BOX OR SINKER, UNLESS NOTED OTHERWISE ON DRAWINGS.	
CONNECTION	NAILS
2 x 6 TONGUE AND GROOVE	
- EACH BOARD TO SUPPORTING MEMBERS	(1) 16d TOE NAIL & (1) 16d FACE NAIL
- TO PARALLEL WALLS AND BEAMS	(1) 16d FACE NAIL AT 6" OC

OTHER WOOD CONNECTIONS	
1. FRAMING CONNECTORS: SIMPSON STRONG-TIE OR APPROVED.	
A. FILL ALL NAIL HOLES WITH NAILS AS SPECIFIED BY THE CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE.	
B. CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED (2.0 OZ / SQUARE FOOT COATING), EXCEPT WHEN IN CONTACT WITH ZINC BORATE OF SBX/DOT PRESERVATIVE TREATMENT.	
C. HANGERS TO DEVELOP BENDING STRENGTH OF MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS.	
2. ANCHOR BOLTS: ASTM A307 OR ASTM A308	
3. ANCHOR BOLTS, LAG BOLTS, EXPANSION ANCHORS, PLATE WASHERS AND THREADED RODS IN CONTACT WITH PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED (2.0 OZ / SQUARE FOOT COATING), EXCEPT WHEN IN CONTACT WITH ZINC BORATE OR SBX/DOT PRESERVATIVE TREATMENT.	
4. PROVIDE STANDARD PLATE WASHERS UNDER HEADS OR NUTS OF BOLTS BEARING ON WOOD. SEE SHEAR WALL SCHEDULE FOR SQUARE WASHER REQUIREMENTS AT SHEAR WALLS.	
5. ANCHOR ALL PLATES AND LEDGERS WITH A MINIMUM OF 3 ANCHORS PER PIECE.	
6. CONNECT ANCHOR BOLTS TO LEDGERS PRIOR TO INSTALLATION ON MASONRY WALLS.	
7. MINIMUM SIZE AND MAXIMUM SPACING OF PLATE OR LEDGER CONNECTIONS:	
A. LEDGERS TO MASONRY WALLS:	5/8" DIAMETER x 12" ANCHOR BOLT AT 2'-0" OC.
8. LAG BOLTS	
A. LAG BOLTS SHALL BE "FULL BODY DIAMETER" (I.E., UNTHREADED SHANK SIZE MATCHES NOMINAL SIZE) UNLESS "REDUCED BODY DIAMETER" LAGS HAVE BEEN APPROVED BY ENGINEER.	
B. PRE-DRILL LEAD AND CLEARANCE HOLES FOR LAGS:	
a. PROVIDE CLEARANCE HOLE FOR SHANK, WITH DIAMETER EQUAL TO SHANK DIAMETER, DEPTH EQUAL TO LENGTH OF UNTHREADED SHANK.	
b. PROVIDE LEAD HOLE FOR THE THREADED PORTION, WITH LENGTH EQUAL TO AT LEAST LENGTH OF THREADED PORTION, WITH DIAMETER AS FOLLOWS:	
3/8" DIAMETER BOLT = 1/4" DIAMETER HOLE	
1/2" DIAMETER BOLT = 5/16" DIAMETER HOLE	
5/8" DIAMETER BOLT = 7/16" DIAMETER HOLE	
3/4" DIAMETER BOLT = 1/2" DIAMETER HOLE	
7/8" DIAMETER BOLT = 5/8" DIAMETER HOLE	
1" DIAMETER BOLT = 11/16" DIAMETER HOLE	
C. LUBRICATE THREADS OF LAGS IMMEDIATELY PRIOR TO INSTALLATION.	
D. INSTALL LAG BOLTS WITH HAND WRENCH ONLY.	

SPECIAL INSPECTION PROGRAM				
INSPECTION TASK / TYPE OF WORK		CONTINUOUS*	PERIODIC*	COMMENTS
OTHER				
	POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY			PER ICC1080 EVALUATION REPORTS
FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODICALLY DURING THE TASK LISTED, AS DEFINED IN THE TABLE.				

* FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODICALLY DURING THE TASK LISTED, AS DEFINED IN THE TABLE.

SPECIAL INSPECTION PROGRAM FOOTNOTES:	
1. PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE WITH THE WASHINGTON STATE AMENDMENTS.	
2. SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION.	
3. PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, GENERAL CONTRACTOR AND SPECIAL INSPECTORS.	
4. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:	
A. OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.	
B. FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, GENERAL CONTRACTOR AND SCHOOL DISTRICT IN A TIMELY MANNER.	
C. SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.	
5. DUTIES OF THE GENERAL CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:	
A. NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED.	
B. MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.	
C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.	
D. MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.	
6. DEFINITIONS:	
A. CONTINUOUS INSPECTION: THE SPECIAL INSPECTOR IS OBSERVING THE WORK REQUIRING SPECIAL INSPECTION AT ALL TIMES.	
B. PERIODIC INSPECTION: THE SPECIAL INSPECTOR IS ON SITE AS REQUIRED TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE.	

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STRUCTURAL NOTES

S1.1
Scale



1/8" = 1'-0"

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S2.1

Scale 1/8" = 1'-0"

