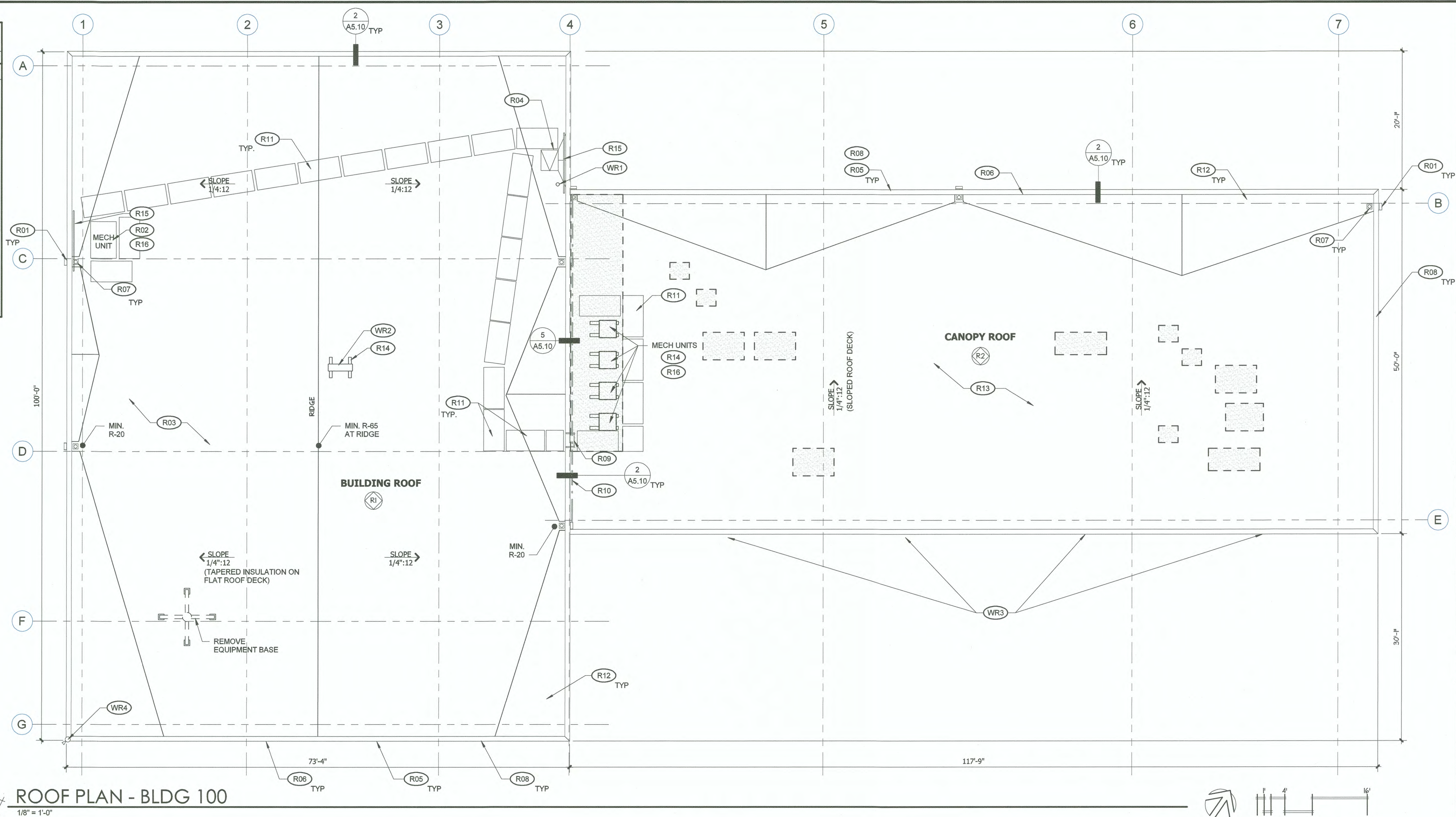
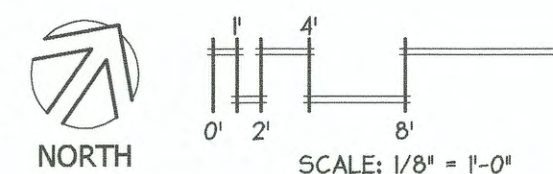


WORK RESTRICTIONS	
SYMBOL	NOTE
WR1	THIS ANTENNA CAN ONLY BE DISCONNECTED ON A MONDAY WHEN NO SHIP IS BERTHED, AND NOT LONGER THAN ONE DAY.
WR2	THIS HVAC UNIT SERVICES THE SERVER ROOM AND CANNOT BE DISCONNECTED FOR LONGER THAN ONE DAY. THE CONTRACTOR IS TO PROVIDE MEANS OF KEEPING THE SERVER ROOM COOLER THAN 80 DEGREES FAHRENHEIT IF HVAC UNIT IS DISCONNECTED FOR MORE THAN ONE DAY.
WR3	LANE CLOSURE IF NEEDED FOR ROOF INSTALLATION WILL NOT BE PERMITTED ON WEDNESDAYS AND FRIDAYS. ON OTHER DAYS, TEMPORARY LANE CLOSURE IF NEEDED, WILL NEED TO BE COORDINATED WITH THE ENGINEER.
WR4	THIS CAMERA CANNOT BE DISCONNECTED LONGER THAN ONE DAY



ROOF PLAN - BLDG 100
1/8" = 1'-0"



ROOF PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT	DESCRIPTION	SYMBOL AND TEXT	DESCRIPTION	SYMBOL AND TEXT
ROOF RIDGE ridge line	RIDGE	HVAC UNIT existing hvac unit	MECH UNIT	ROOF LADDER access ladder with fall protection	
ROOF PLANE CHANGE description, change in sloped roof planes	VALLEY	ROOF ACCESS HATCH cricket at upside of roof slope		existing access ladder	
ROOF CRICKET sloped (cricket) roof plane		PARAPET WALL parapet wall		ROOF R-VALUE min. roof r-value of tapered insulation at low and high points	R-XX
SLOPE IDENTIFICATION direction indicator, rise/run	SLOPE 1/2:12	ROOF PARAPET THROUGH-WALL SCUPPERS existing scuppers & roof drain		BUR REPLACEMENT remove and replace BUR membrane at areas where indicated, examine plywood sheathing and replace rotted or damaged sheathing, infill for level surface - allow for 400 SF total between both buildings	
ASSEMBLY TYPE R = roof type					

GENERAL NOTES

NOTE	NOTE	NOTE
1. ABBREVIATIONS: (D) - DEMOLITION (R) - RELOCATE (E) - EXISTING TO REMAIN (S) - SALVAGE	6. REMOVE AND REINSTALL ALL MECH. AND ELEC. EQUIPMENT, PIPING, CONDUIT, WIRING, ETC., AS REQUIRED TO PERFORM ROOFING WORK. NOT ALL ITEMS MAY BE SHOWN.	10. REMOVE EXISTING BUILT UP ROOF COVERING AND INSULATION TO PLYWOOD DECK. PROVIDE ROOF ASSEMBLY AS INDICATED OVER ENTIRE ROOF AREA.
2. MAINTAIN A MINIMUM OF 1/4:12 SLOPE AT ROOF CRICKETS.	7. EXAMINE CONDITION OF EXISTING WOOD ROOF AND PARAPET WALL STRUCTURAL MEMBERS AND SHEATHING EXPOSED BY REMOVALS AND REPORT DAMAGED AREAS TO ENGINEER.	11. PROVIDE BIRD DETERRENT WIRE SYSTEM OVER ENTIRE ROOF AREA.
3. TAPERED INSULATION SHALL PROVIDE A MINIMUM AREA WEIGHTED R-VALUE OF 38, CALCULATED IN ACCORDANCE WITH WSEC TABLE A102.2.6(1)	8. SEE HAZARDOUS BUILDING MATERIAL INVESTIGATION REPORT DATED 23 OCT 2018. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING DISTURBANCE AND DEMOLITION OF HAZARDOUS MATERIALS	12. CLEAN EXISTING BUILT-UP ROOFING MEMBRANE AT CANOPY TO REMOVE MOSS AND DEBRIS
4. FLASH AND SEAL ALL ROOF CURBS, PIPE AND CONDUIT PENETRATIONS IN ACCORDANCE WITH MANUFACTURERS AND NRCA STANDARD DETAILS TO PROVIDE A COMPLETE AND WATERTIGHT ROOF SYSTEM.	9. ROOF SLOPED WITH TAPERED INSULATION ON FLAT DECK, EXCEPT AT CANOPY ROOF.	13. PROVIDE NEOPRENE WASHERS SET IN SEALANT TO SEAL BOLT PENETRATIONS AT SECURITY CAMERAS AND OTHER ITEMS MOUNTED TO TOP OF PARAPETS. BOLTS SHALL BE STAINLESS STEEL EXTERIOR FASTENERS.
5. SEE MECH / ELEC. SHEETS FOR RE-MOUNTING OF ROOFTOP EQUIPMENT INCLUDING ITEMS MOUNTED TO PARAPET WALLS		14. PROVIDE ROOF WALK PADS UNDER METAL FRAMES SUPPORTING COMMUNICATION ANTENNAS

ROOF PLAN NOTES

SYMBOL	NOTE	SYMBOL	NOTE	SYMBOL	NOTE
R01	REMOVE EXISTING THROUGH WALL SCUPPER, CUT AND PATCH PRE-FINISHED METAL SIDING AND WALL ASSEMBLY TO MATCH EXISTING MATERIAL AND COLOR TO PROVIDE STAINLESS STEEL ROOF OVERFLOW SCUPPERS WITH BOTTOM EDGE MOUNTED 2 INCHES ABOVE INLET OF ADJACENT ROOF DRAIN. TYPICAL @ ALL ROOF DRAIN LOCATIONS. SEE DETAIL 5/A5.10	R05	REMOVE EXISTING COPING AND PROVIDE PRE-FINISHED METAL COPING TO MATCH EXISTING COLOR, TYPICAL AT ALL ROOF PERIMETER	R11	PROVIDE ROOF WALKWAY PADS
R02	REMOVE EXISTING CURB AND PROVIDE CURB FOR EQUIPMENT	R06	PROVIDE BIRD DETERRENT SPIKES ON METAL COPING AT ENTIRE ROOF PERIMETER.	R12	PROVIDE ROOF CRICKETS TO SLOPE VALLEY MIN. 1/8:12 TO DRAIN TYP., REMOVE EXISTING CRICKET MATERIAL TO PLYWOOD DECK AT CANOPY ROOF.
R03	REMOVE EXISTING BUILT-UP ROOF COVERING AND INSULATION TO PLYWOOD DECK AND PROVIDE SINGLE PLY ROOF MEMBRANE ASSEMBLY OVER ENTIRE ROOF AREA	R07	REMOVE EXISTING ROOF DRAIN. PROVIDE ROOF DRAIN ASSEMBLY, TYPICAL AT ALL EXISTING LOCATIONS. MODIFY DRAIN LINES AND DOWNSPOUTS TO CONNECT TO NEW DRAINS	R13	EXISTING ROOF MEMBRANE TO REMAIN ON CANOPY EXCEPT AREA INDICATED TO BE REPLACED DUE TO MOISTURE AND EXISTING CRICKETS. PROVIDE SINGLE PLY MEMBRANE ROOF ASSEMBLY OVER ENTIRE ROOF.
R04	REMOVE EXISTING ROOF HATCH AND PROVIDE INSULATED ROOF HATCH & CURB	R08	EXISTING ROOF PARAPET WALLS AND METAL SIDING TO REMAIN. PROVIDE MEMBRANE FLASHING AND COPING, TYPICAL	R14	REMOVE EXISTING EQUIPMENT SUPPORTS AND PROVIDE STRAIGHT RAIL EQUIPMENT SUPPORTS. SLOPE INSULATION BETWEEN SUPPORTS TO DRAIN.
		R09	EXISTING LADDER TO REMAIN	R15	PROVIDE FALL PROTECTION GUARD RAIL. EXTEND 2'-6" BEYOND ENDS OF EQUIPMENT OR HATCH. SEE DETAIL 11/A5.10
		R10	PROVIDE COUNTERFLASHING AT BASE OF EXISTING SIDING TO EXTEND OVER ROOF MEMBRANE FLASHING, TURNED UP AT BASE OF WALL.	R16	PROVIDE BIRD DETERRENT "SPIDER" ON TOP OF MECHANICAL UNITS.

6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

APPROVED: 03.20.19
DIRECTOR: 4/5/19
DATE: 4/5/19
PRINTED BY: WS
DATE: 4/5/19
PROJ. ENGR. DATE: 4/5/19
TOWNSHIP: 21
RANGE: 03
SECTION: 35
VERT: MLLW 19.39' @ Tide 22 1933
DATE-HRZ: WA83-SF
PARCEL: 6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

W. SITCUM BLDG. 100 AND 950
ROOF REPLACEMENTS
ROOF PLAN - BLDG 100

6603
A1.10
6 OF 19

CONT/CONS: 071093
M. ID: 201062.02
PHASE: BID SET

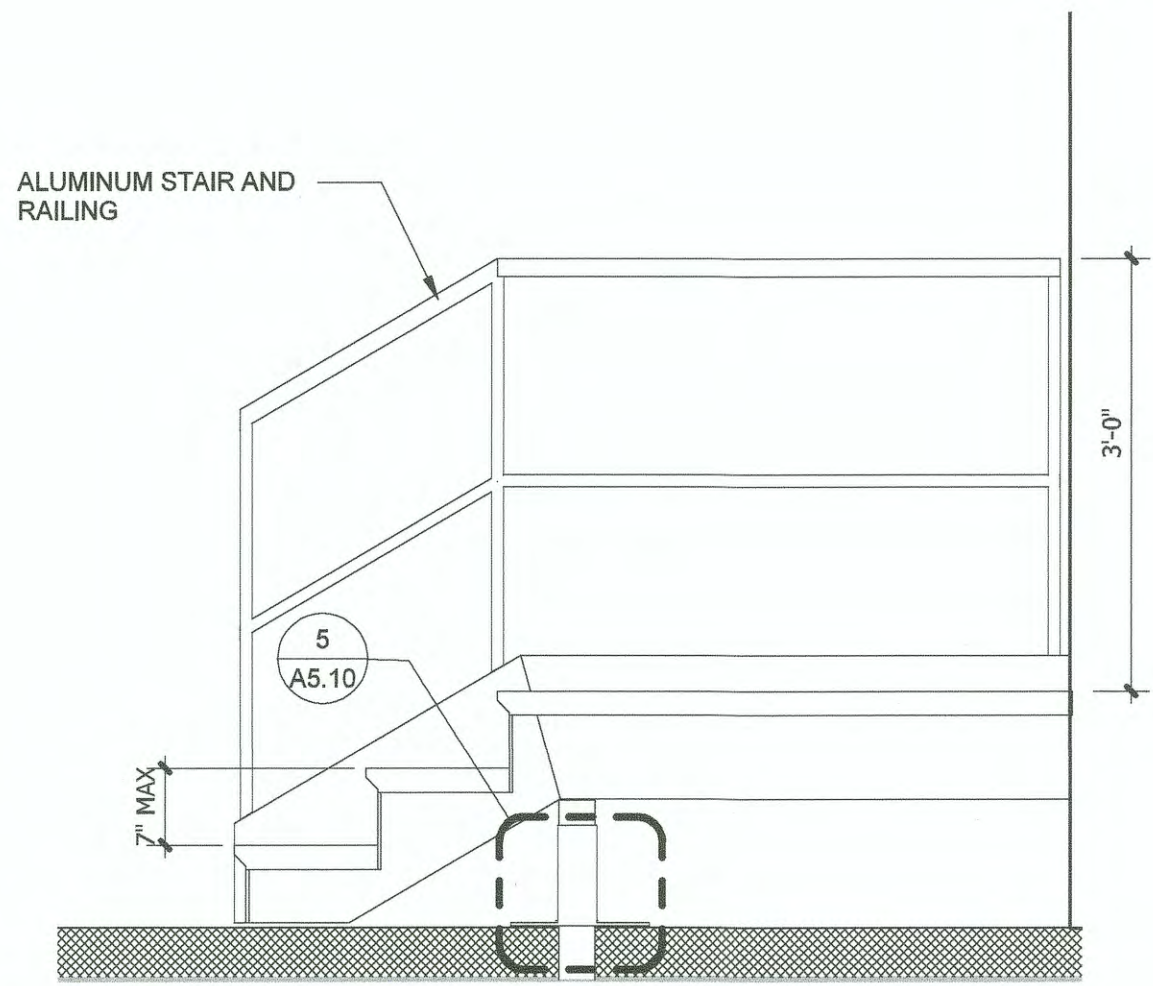
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

PORT OF TACOMA FILE: PROJECT: 018-138
PLOT DATE: 3/26/2019 3:52:04 PM C:\Users\Wills\Desktop\Revit 2019 Projects\PORT Building 100_schickwm.rvt

BINDING EDGE

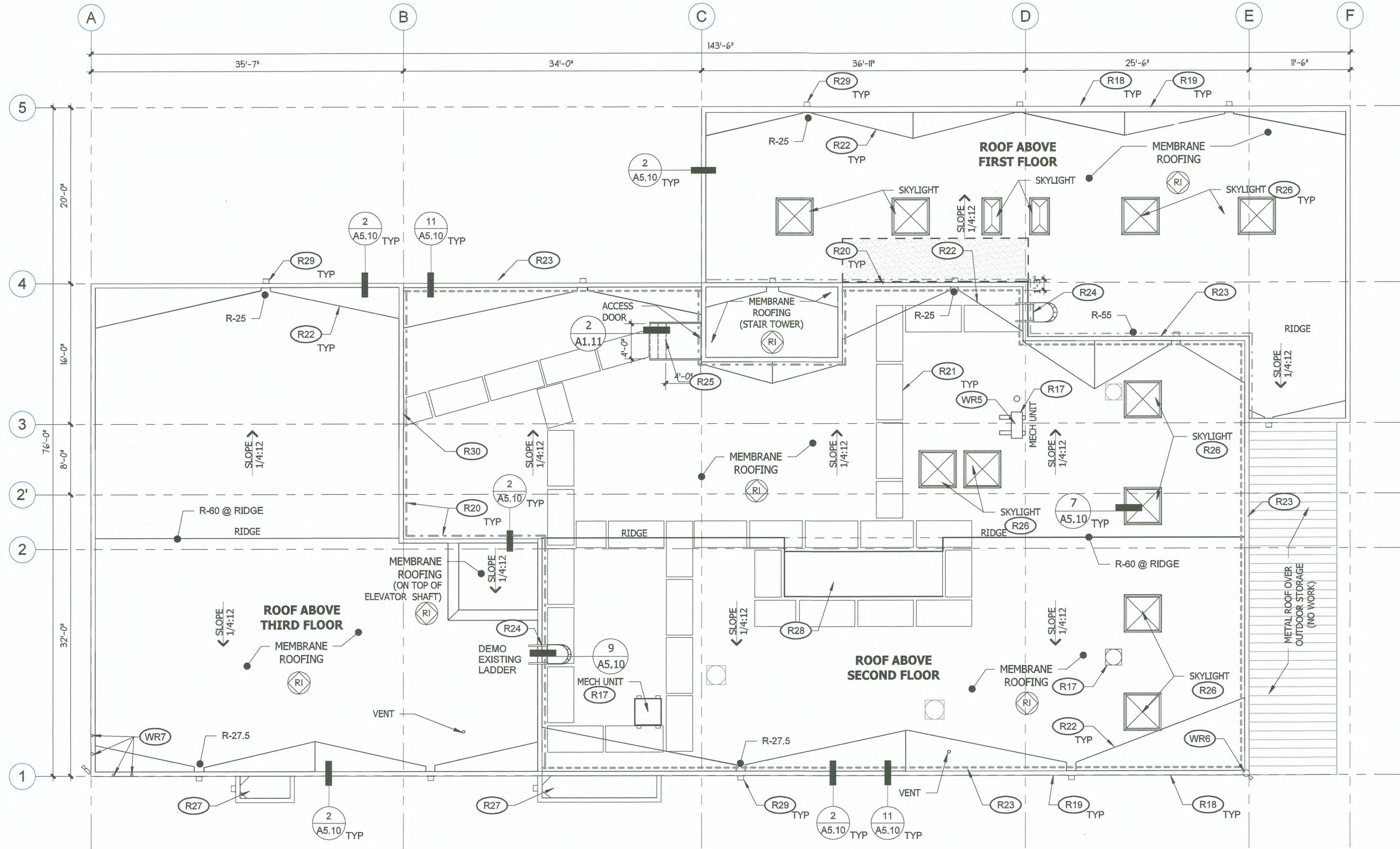
WORK RESTRICTIONS

SYMBOL	NOTE
WR5	THIS HVAC UNIT SERVICES THE SERVER ROOM AND CANNOT BE DISCONNECTED FOR LONGER THAN ONE DAY. THE CONTRACTOR IS TO PROVIDE MEANS OF KEEPING THE SERVER ROOM COOLER THAN 80 DEGREES FAHRENHEIT IF HVAC UNIT IS DISCONNECTED FOR MORE THAN ONE DAY.
WR6	CAMERA CANNOT BE DISCONNECTED LONGER THAN ONE DAY.
WR7	THESE ANTENNAS CAN ONLY BE DISCONNECTED ON A MONDAY WHEN NO SHIP IS BERTHED, AND NOT LONGER THAN ONE DAY.



STAIR SECTION

3/4" = 1'-0"



ROOF PLAN - BLDG 950

1/8" = 1'-0"



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

ROOF PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT	DESCRIPTION	SYMBOL AND TEXT	DESCRIPTION	SYMBOL AND TEXT
ROOF RIDGE ridge line	RIDGE	HVAC UNIT existing hvac unit	MECH UNIT	ROOF LADDER access ladder with fall protection	
ROOF PLANE CHANGE description, change in sloped roof planes	VALLEY	ROOF ACCESS HATCH cricket at upside of roof slope		existing access ladder	
ROOF CRICKET sloped (cricket) roof plane		PARAPET WALL parapet wall		ROOF R-VALUE min. roof r-value of tapered insulation at low and high points	R-XX
SLOPE IDENTIFICATION direction indicator, rise/run	SLOPE 1/2:12	ROOF PARAPET THROUGH-WALL SCUPPERS existing scuppers & roof drain		BUR REPLACEMENT remove and replace BUR membrane at areas where indicated, examine plywood sheathing and replace rotted or damaged sheathing, infill for level surface - allow for 400 SF total between both buildings	
ASSEMBLY TYPE R = roof type	R2				

GENERAL NOTES

NOTE	NOTE	NOTE
1. ABBREVIATIONS: (D) - DEMOLITION (R) - RELOCATE (E) - EXISTING TO REMAIN (S) - SALVAGE	6. REMOVE AND REINSTALL ALL MECH. AND ELEC. EQUIPMENT, PIPING, CONDUIT, WIRING, ETC., AS REQUIRED TO PERFORM ROOFING WORK. NOT ALL ITEMS MAY BE SHOWN.	10. REMOVE EXISTING BUILT UP ROOF COVERING AND INSULATION TO PLYWOOD DECK. PROVIDE ROOF ASSEMBLY AS INDICATED OVER ENTIRE ROOF AREA.
2. MAINTAIN A MINIMUM OF 1/4:12 SLOPE AT ROOF CRICKETS.	7. EXAMINE CONDITION OF EXISTING WOOD ROOF AND PARAPET WALL STRUCTURAL MEMBERS AND SHEATHING EXPOSED BY REMOVALS AND REPORT DAMAGED AREAS TO ENGINEER.	11. PROVIDE BIRD DETERRENT WIRE SYSTEM OVER ENTIRE ROOF AREA.
3. TAPERED INSULATION SHALL PROVIDE A MINIMUM AREA WEIGHTED R-VALUE OF 38, CALCULATED IN ACCORDANCE WITH WSEC TABLE A102.2.6(1)	8. SEE HAZARDOUS BUILDING MATERIAL INVESTIGATION REPORT DATED 23 OCT 2018. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING DISTURBANCE AND DEMOLITION OF HAZARDOUS MATERIALS	12. CLEAN EXISTING BUILT-UP ROOFING MEMBRANE AT CANOPY TO REMOVE MOSS AND DEBRIS
4. FLASH AND SEAL ALL ROOF CURBS, PIPE AND CONDUIT PENETRATIONS IN ACCORDANCE WITH MANUFACTURERS AND NRCA STANDARD DETAILS TO PROVIDE A COMPLETE AND WATERTIGHT ROOF SYSTEM.	9. ROOF SLOPED WITH TAPERED INSULATION ON FLAT DECK, EXCEPT AT CANOPY ROOF.	13. PROVIDE NEOPRENE WASHERS SET IN SEALANT TO SEAL BOLT PENETRATIONS AT BASE OF EXISTING SIDING TO REMAIN. PROVIDE MEMBRANE FLASHING AND COPING, TYPICAL
5. SEE MECH. / ELEC. SHEETS FOR RE-MOUNTING OF ROOFTOP EQUIPMENT INCLUDING ITEMS MOUNTED TO PARAPET WALLS		14. PROVIDE ROOF WALK PADS UNDER METAL FRAMES SUPPORTING COMMUNICATION ANTENNAS

ROOF PLAN NOTES

SYMBOL	NOTE	SYMBOL	NOTE	SYMBOL	NOTE
R17	PROVIDE CURB / SUPPORTS FOR EQUIPMENT	R23	PROVIDE METAL GUARDRAIL ALONG ENTIRE PERIMETER OF PARAPET WALL AT ROOF ABOVE 2ND FLOOR LEVEL (DEMO EXISTING GUARDRAIL)	R28	EXISTING MECHANICAL UNIT AND CURB TO REMAIN
R18	PROVIDE PRE-FINISHED METAL COPING TO MATCH EXISTING COLOR, TYPICAL AT ALL ROOF PERIMETER	R24	PROVIDE ALUMINUM ACCESS LADDER WITH CAGE	R29	CUT AND PATCH PREFINISHED METAL SIDING TO MATCH EXISTING MATERIAL AND COLOR, DEMOLISH EXISTING SCUPPERS, PROVIDE THROUGH-WALL SCUPPER, AND OVERFLOW SCUPPER, TYPICAL. EXISTING PVC DOWNSPOUTS TO BE REUSED.
R19	EXISTING ROOF PARAPET WALLS AND METAL SIDING TO REMAIN. PROVIDE MEMBRANE FLASHING AND COPING, TYPICAL	R25	PROVIDE PRE-FINISH METAL STAIRS AND LANDING (REMOVE EXISTING WOOD STAIRS AND LANDING)	R30	EXISTING ACCESS DOOR FROM THIRD FLOOR
R20	PROVIDE COUNTERFLASHING AT BASE OF EXISTING SIDING TO EXTEND OVER ROOF MEMBRANE FLASHING, TURNED UP AT BASE OF WALL.	R26	PROVIDE SKYLIGHT AND CURB, TYPICAL AT ALL SKYLIGHTS (REMOVE EXISTING SKYLIGHTS AND CURBS, TYPICAL)		
R21	PROVIDE ROOF WALKWAY PADS	R27	MEMBRANE ROOFING (ENTRY CANOPIES) WITH COVERBOARD ONLY		
R22	PROVIDE ROOF CRICKETS TO SLOPE VALLEY MIN. 1/8:12 TO DRAIN TYP.				

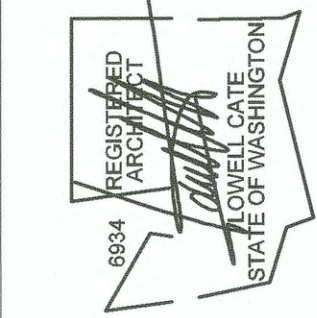
W. SITCUM BLDG. 100 AND 950
ROOF REPLACEMENTS
ROOF PLAN - BLDG 950

6603
A1.11
7 OF 19

CONT/CONS: 071093
M. ID: 201062.02
PHASE: BID SET

TOWNSHIP: 21
RANGE: 03
SECTION: 35
DATE: 22 1933
VERT: MLLW 19.39' @ Tide
PARCEL: WA83-SF
DRAWING SCALE: As indicated

APPROVED: 03.20.19
LD CHECKED BY DATE
DIRECTOR ENG. DATE: 4/5/19
PRINTED BY: WS
PORT ADDRESS: TACOMA, WASHINGTON

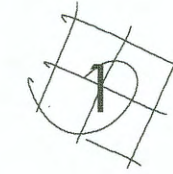


6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

Port of Tacoma
P.O. BOX 1007 TACOMA, WA 98401 (253)383-5441

MARK: REVISION: BY: DATE: APPR:

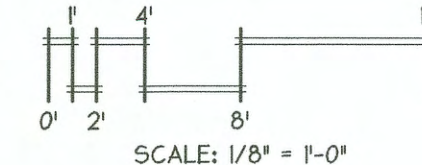
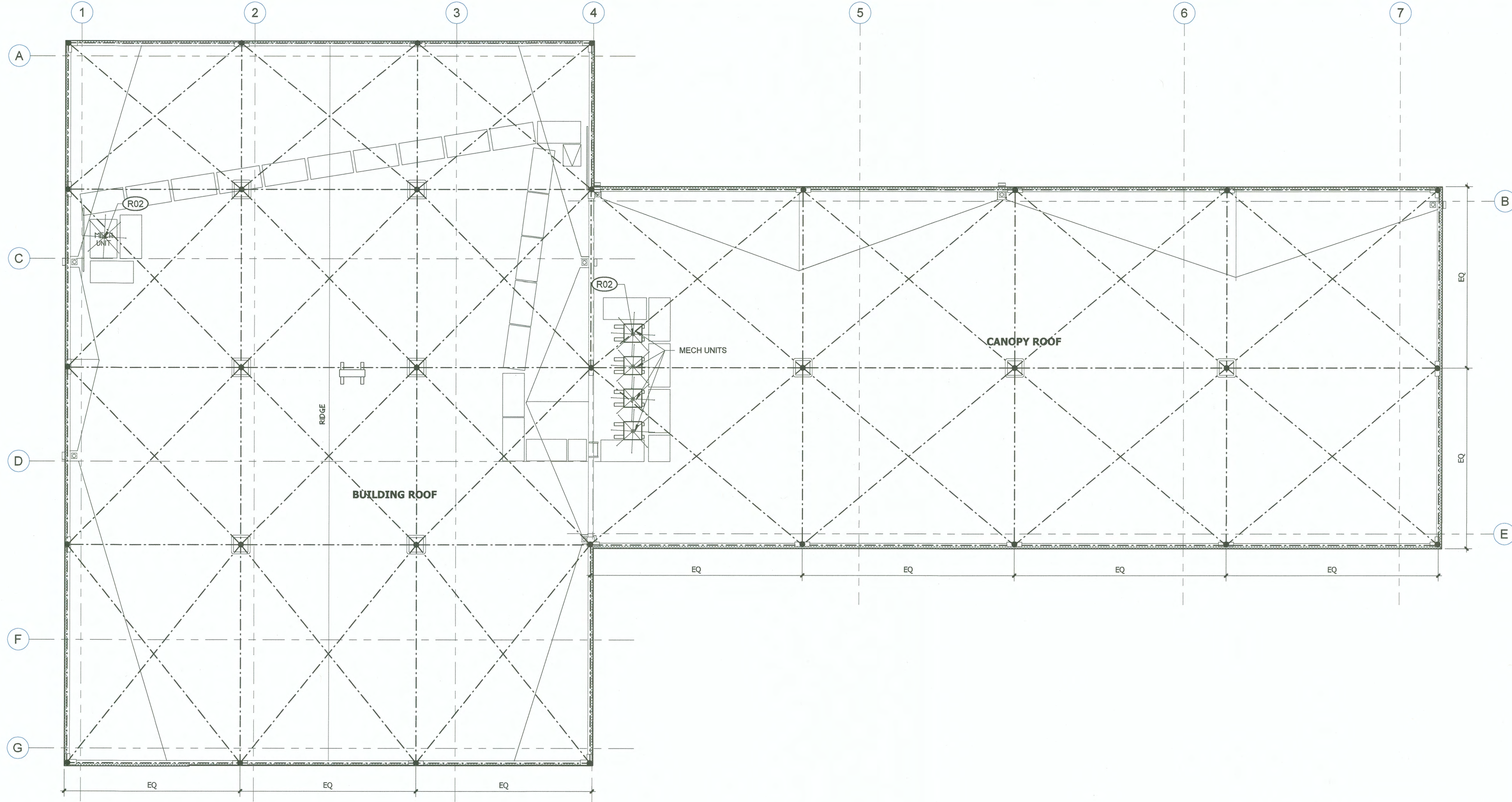
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



BIRD DETERRENT PLAN - BLDG 100

1/8" = 1'-0"

BIRD DETERRENT LEGEND		BIRD DETERRENT NOTES	
DESCRIPTION	SYMBOL AND TEXT	SYMBOL	NOTE
ROOF POST*, WIRES AND ROOF PAD, SEE DETAIL 6/A510			PROVIDE BIRD DETERRENT SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 10 81 13, AS FOLLOWS:
PARAPET MOUNTED POST AND WIRES*		(R01)	PROVIDE BIRD SPIKES ON PERIMETER PARAPET WALLS.
SEAGULL DETERRENT UMBRELLA / SPIDER, DIAMETER		(R02)	PROVIDE UMBRELLAS AT ROOFTOP UNITS MECHANICAL UNITS AND EXISTING ENTRY CANOPY.
PARAPET BIRD SPIKES		(R03)	PROVIDE POLES AND WIRES AT PERIMETER AND ACROSS FIELD OF ROOF. POLES AT PERIMETER SHALL BE MECHANICALLY ATTACHED TO PARAPET WALL WITH BRACKETS. PROVIDE SPACER / BACKING TO PROTECT METAL CAP FLASHING. INTERIOR POLES SHALL BE MOUNTED TO CONCRETE PAVERS ADHERED TO ROOF MEMBRANE WALK PADS. PROVIDE HORIZONTAL WIRES APPROXIMATELY 18" O.C. VERTICALLY BETWEEN THE PARAPET PERIMETER POLES, TYPICAL. BOTTOM WIRE SHALL BE LOCATED 8" ABOVE PARAPET
* SEE NOTE R03 POLE MOUNTING REQUIREMENTS			
WIRES		(R04)	PROVIDE CROSS WIRES DIAGONALLY BETWEEN POLES



6603

A1.20

8 OF 19

CONT/CONS: 071093
M. ID: 201062.02
PHASE: BID SET

W. SITCUM BLDG. 100 AND 950
ROOF REPLACEMENTS
BIRD DETERRENT PLAN - BLDG 100

TOWNSHIP: 21
DAT-HRZ: WA83-SF
PARCEL:

APPROVED:

DIRECTOR ENG. DATE: 4/5/19

LC 03.20.19
CHECKED BY DATE
PROJ. ENGR. DATE
PRINTED BY: WS
PORT ADDRESS: TACOMA, WASHINGTON

6021 12th street east
suite 201
tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

Helix
design group

6021 12th street east
suite 201
tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

APPR: DATE:
BY:
REVISION:
MARK:

1894 REGISTERED ARCHITECT

TACOMA
STATE OF WASHINGTON

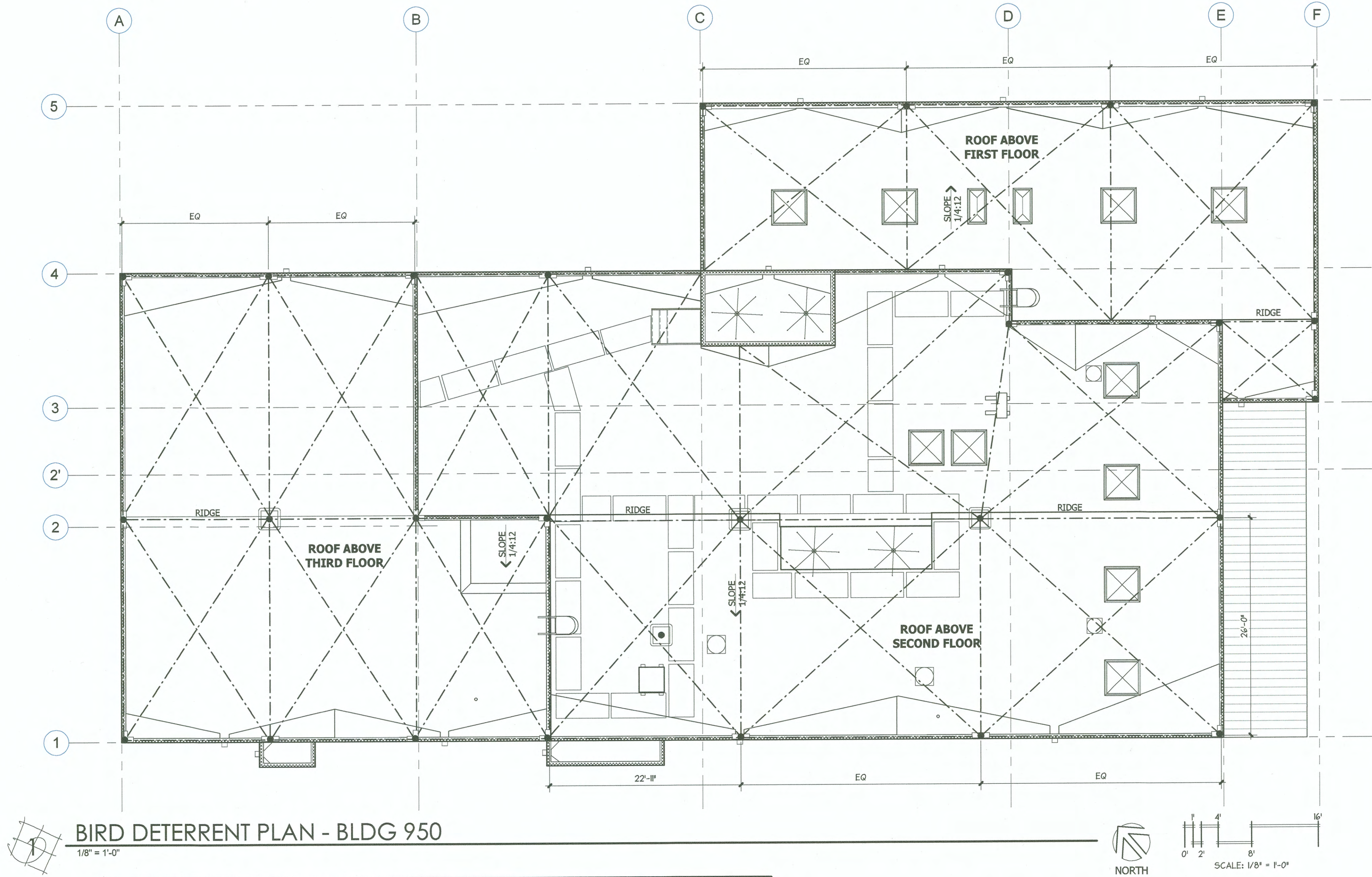
6021 12th street east
suite 201
tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

APPR: DATE:
BY:
REVISION:
MARK:

6021 12th street east
suite 201
tacoma, wa 98424
tel: 253.922.9037
fax: 253.922.6499

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



BIRD DETERRENT LEGEND		BIRD DETERRENT NOTES	
DESCRIPTION	SYMBOL AND TEXT	SYMBOL	NOTE
ROOF POST*, WIRES AND ROOF PAD, SEE DETAIL 6/A510			PROVIDE BIRD DETERRENT SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 10 81 13, AS FOLLOWS:
PARAPET MOUNTED POST AND WIRES*		(R01)	PROVIDE BIRD SPIKES ON PERIMETER PARAPET WALLS.
SEAGULL DETERRENT UMBRELLA / SPIDER, DIAMETER		(R02)	PROVIDE UMBRELLAS AT ROOFTOP UNITS MECHANICAL UNITS AND EXISTING ENTRY CANOPY.
PARAPET BIRD SPIKES		(R03)	PROVIDE POLES AND WIRES AT PERIMETER AND ACROSS FIELD OF ROOF. POLES AT PERIMETER SHALL BE MECHANICALLY ATTACHED TO PARAPET WALL WITH BRACKETS. PROVIDE SPACER / BACKING TO PROTECT METAL CAP FLASHING. INTERIOR POLES SHALL BE MOUNTED TO CONCRETE PAVERS ADHERED TO ROOF MEMBRANE WALK PADS. PROVIDE HORIZONTAL WIRES APPROXIMATELY 18" O.C. VERTICALLY BETWEEN THE PARAPET PERIMETER POLES, TYPICAL. BOTTOM WIRE SHALL BE LOCATED 8" ABOVE PARAPET
* SEE NOTE R03 POLE MOUNTING REQUIREMENTS			
WIRES		(R04)	PROVIDE CROSS WIRES DIAGONALLY BETWEEN POLES

6603
A1.21
9 OF 19
CONT/CONS: 071093
M. ID: 201062.02
PHASE: BID SET

W. SITCUM BLDG. 100 AND 950
ROOF REPLACEMENTS
BIRD DETERRENT PLAN - BLDG 950

TOWNSHIP: 21
DAT-HRZ: WA83-SF
PARCEL:

RANGE: 03
VERT: MLLW 19.39' @ Tide 22 1933
DRAWING SCALE: 1/8" = 1'-0"

SECTION: 35

APPROVED:

DIRECTOR ENG. DATE: 4/5/19
PRINTED BY: WS

LC
CHECKED BY
DATE
03.20.19

PROJ. ENGR.
DATE
DATE

PORT ADDRESS: TACOMA, WASHINGTON

6021 12th street east
suite 201
tacoma, wa. 98424
tel: 253.922.9037
fax: 253.922.6499

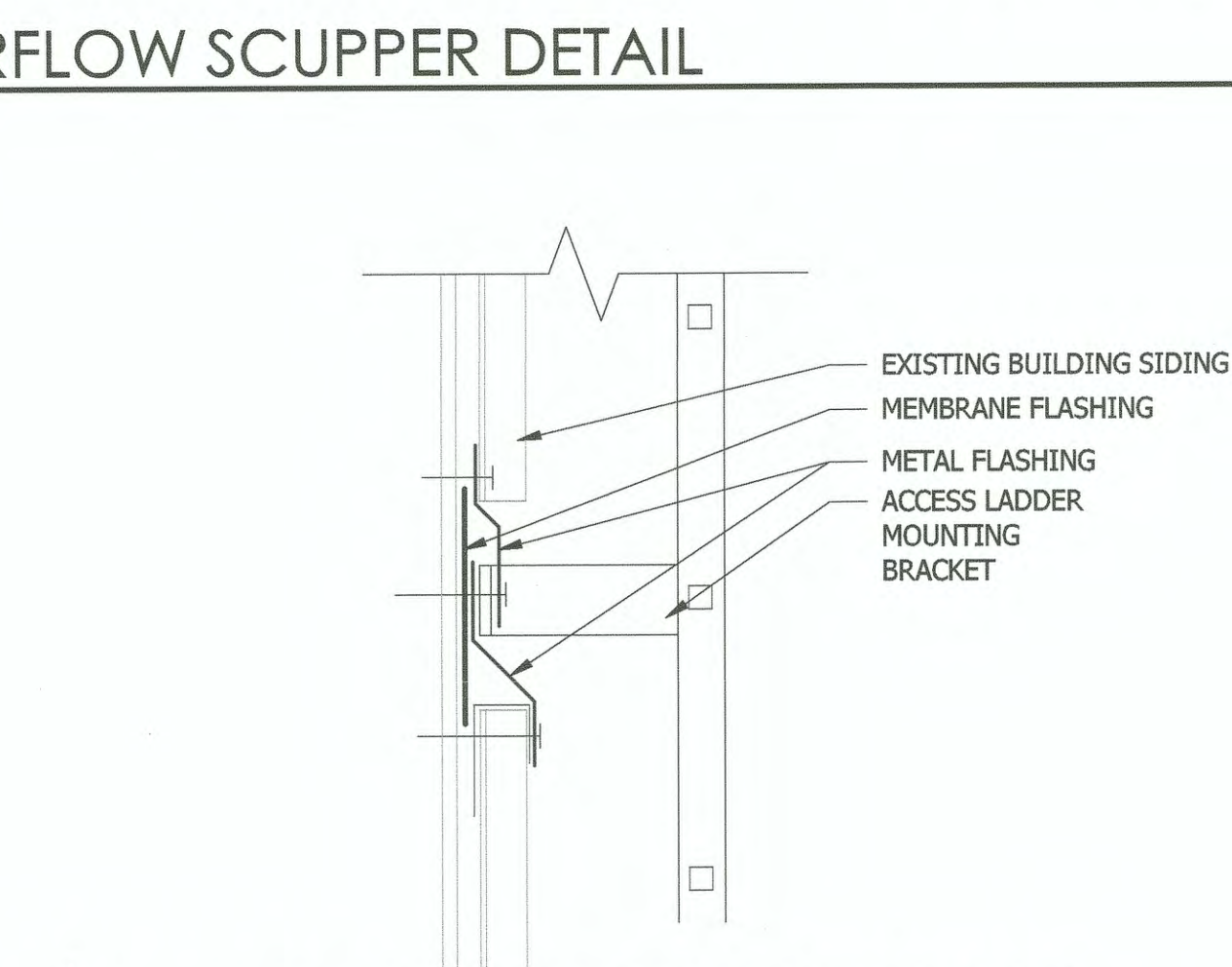
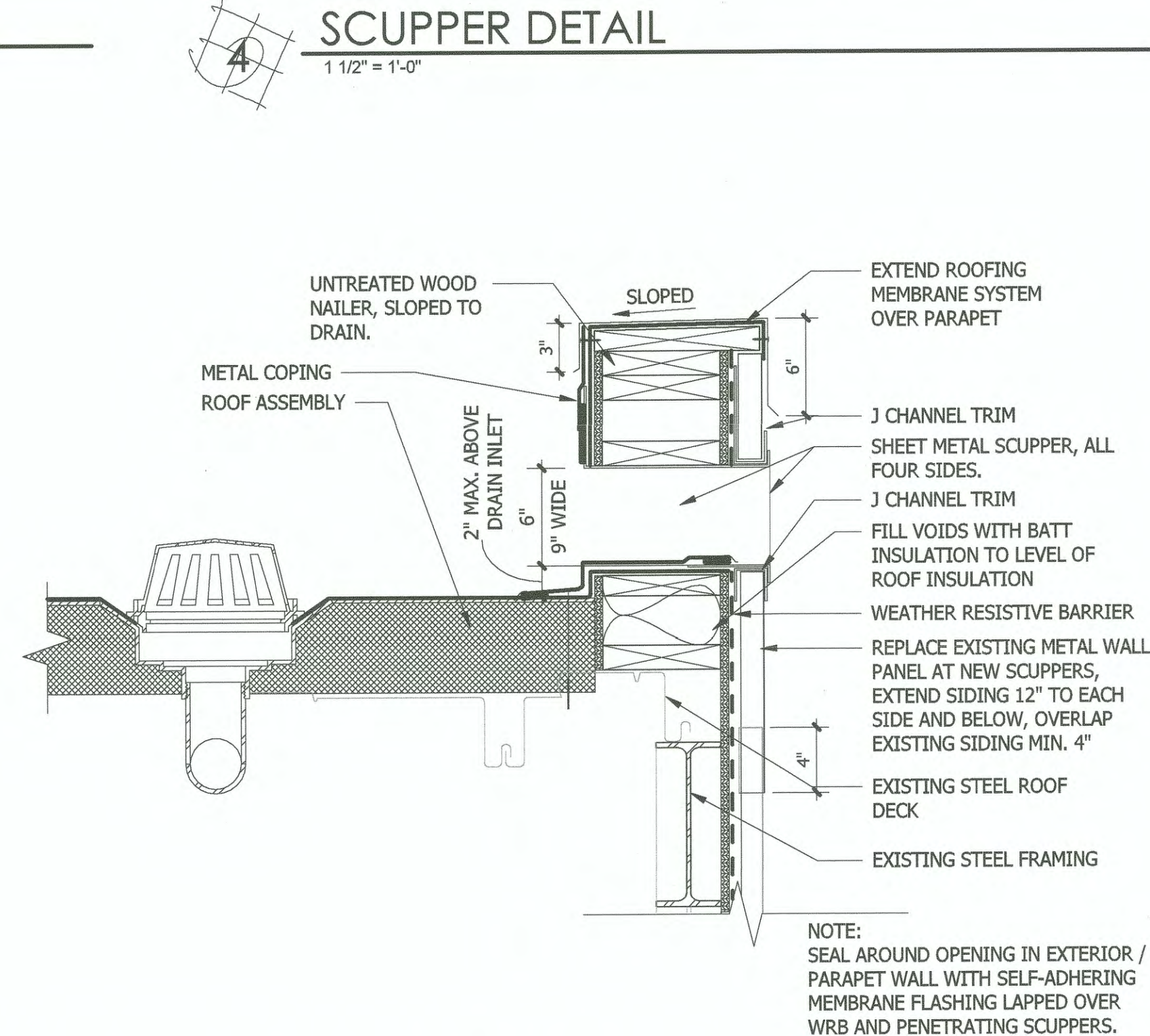
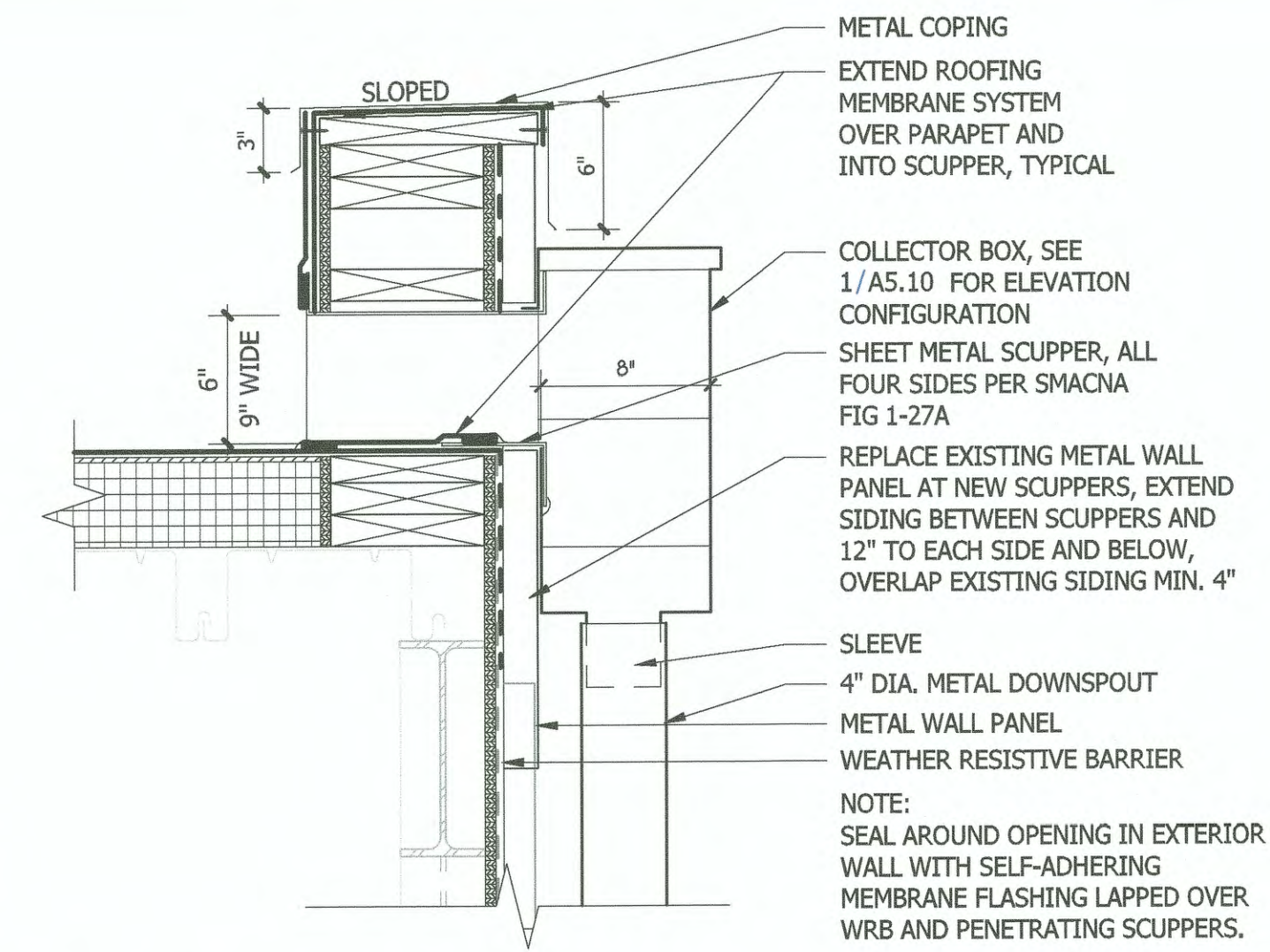
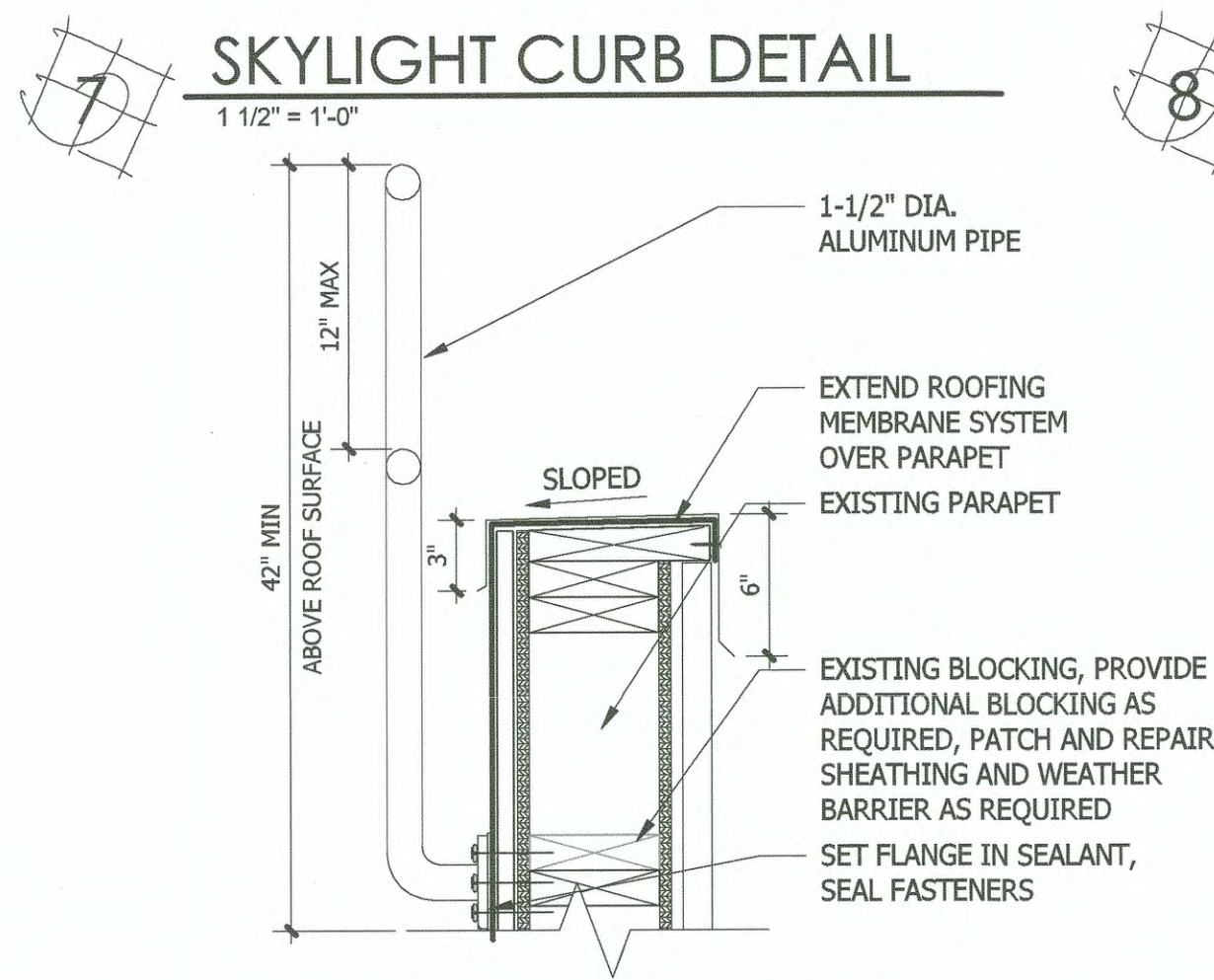
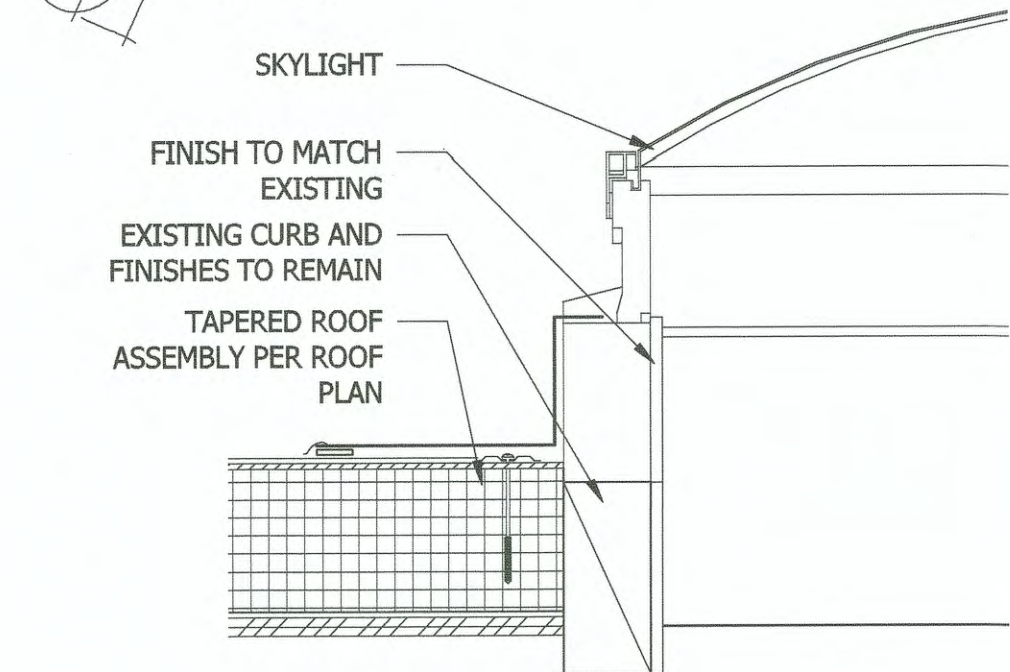
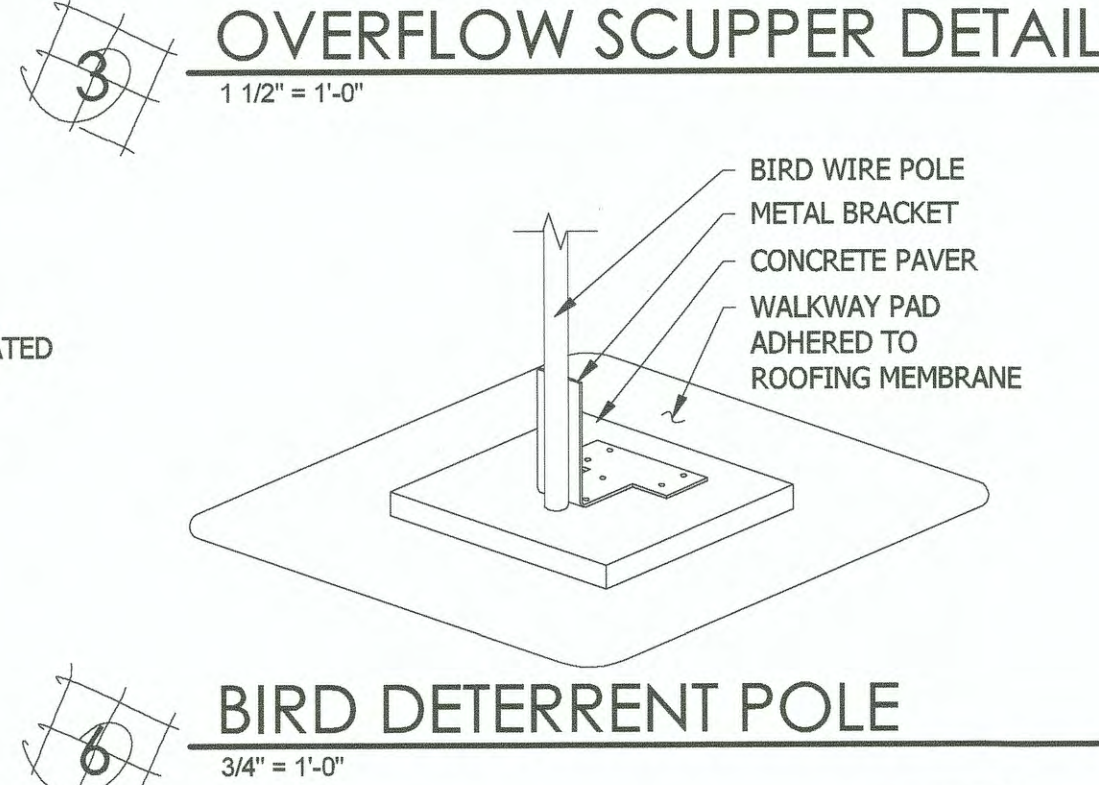
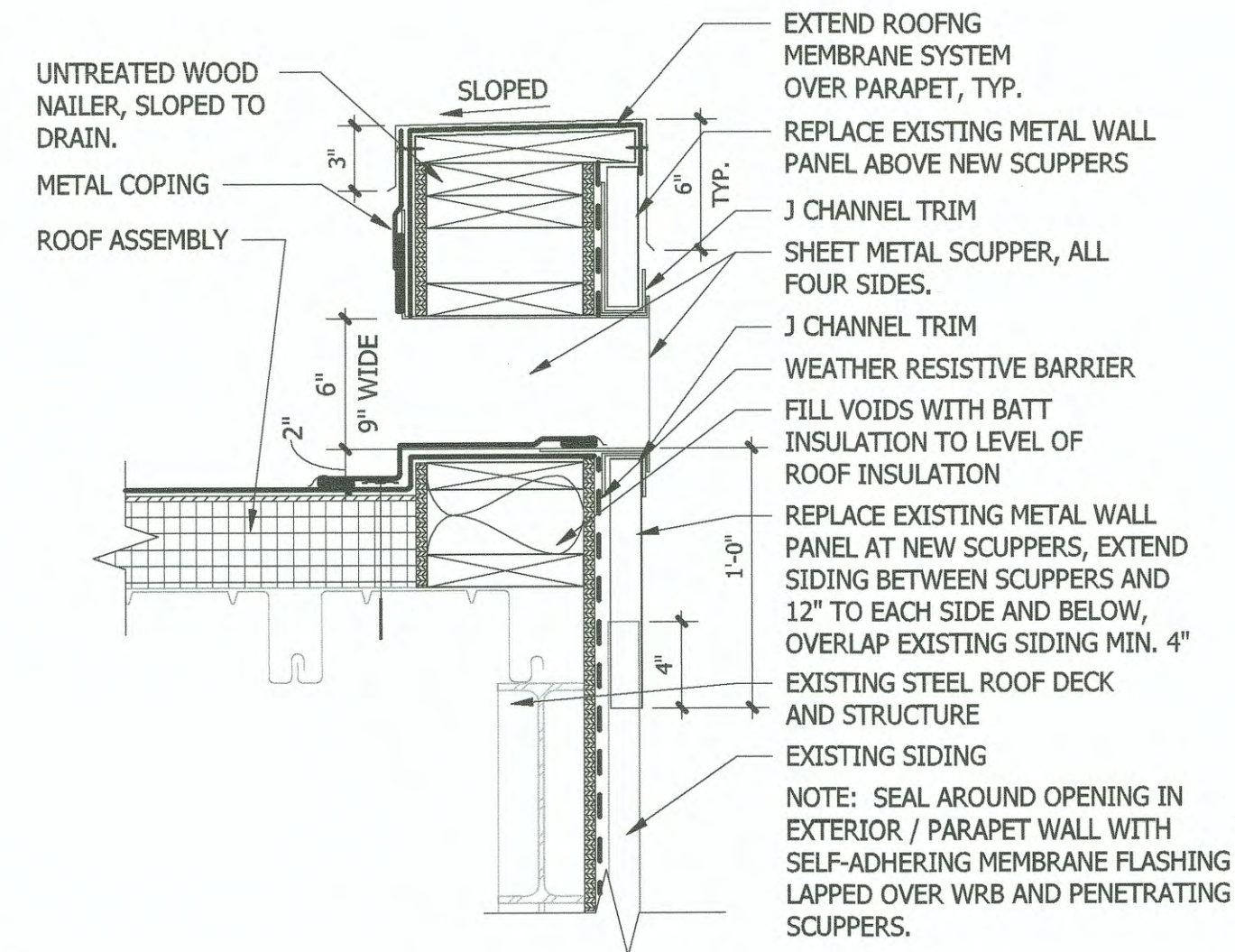
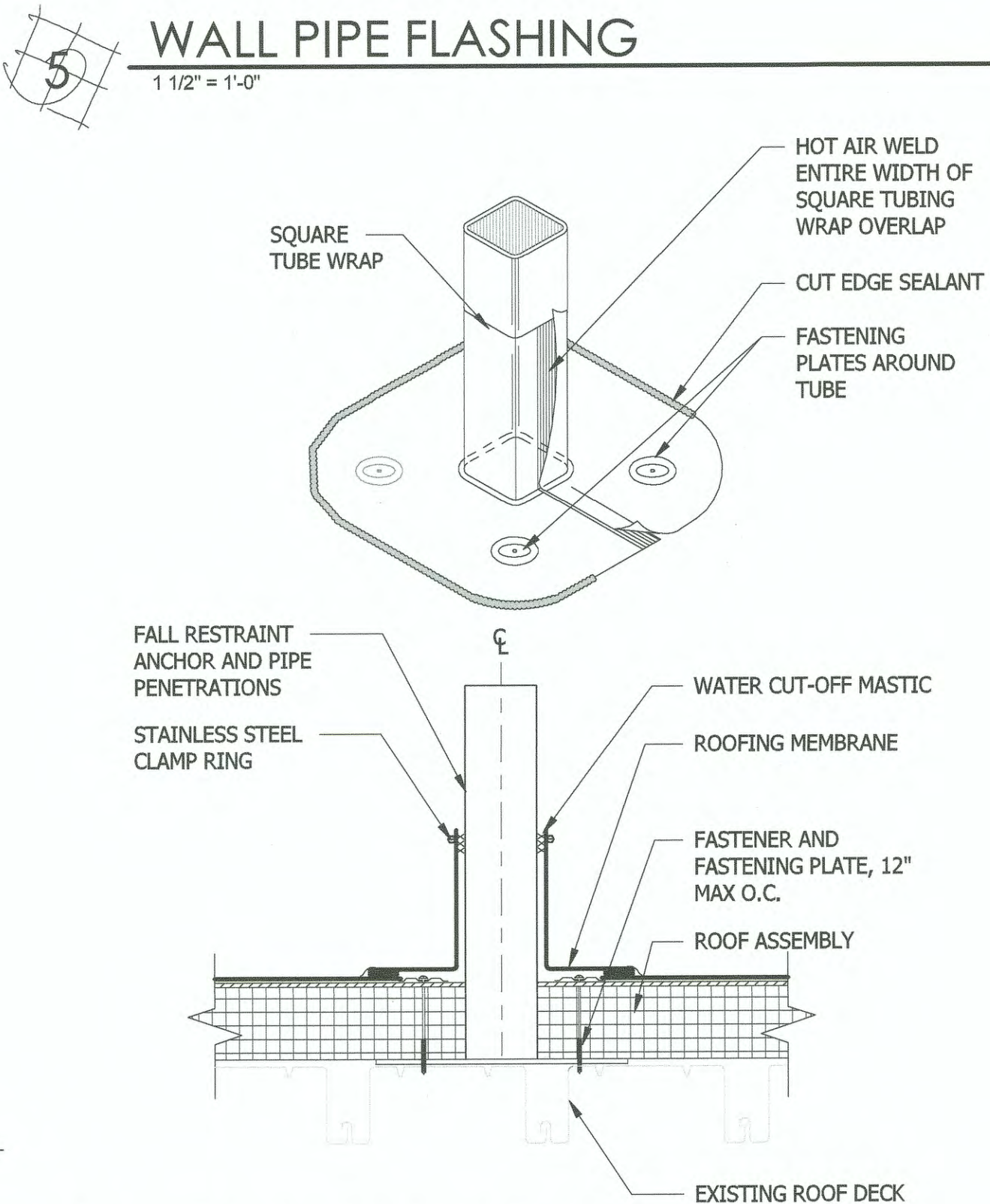
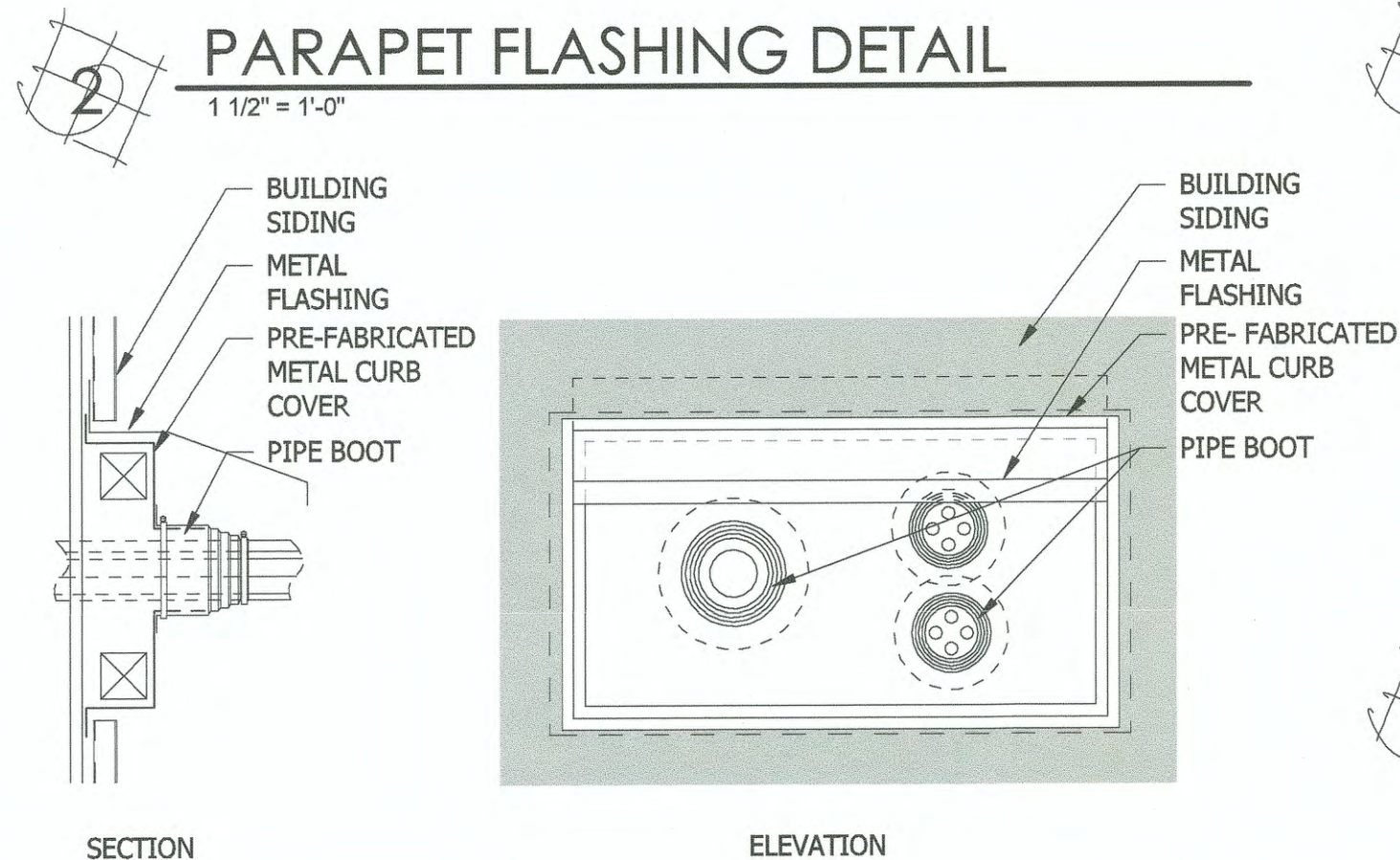
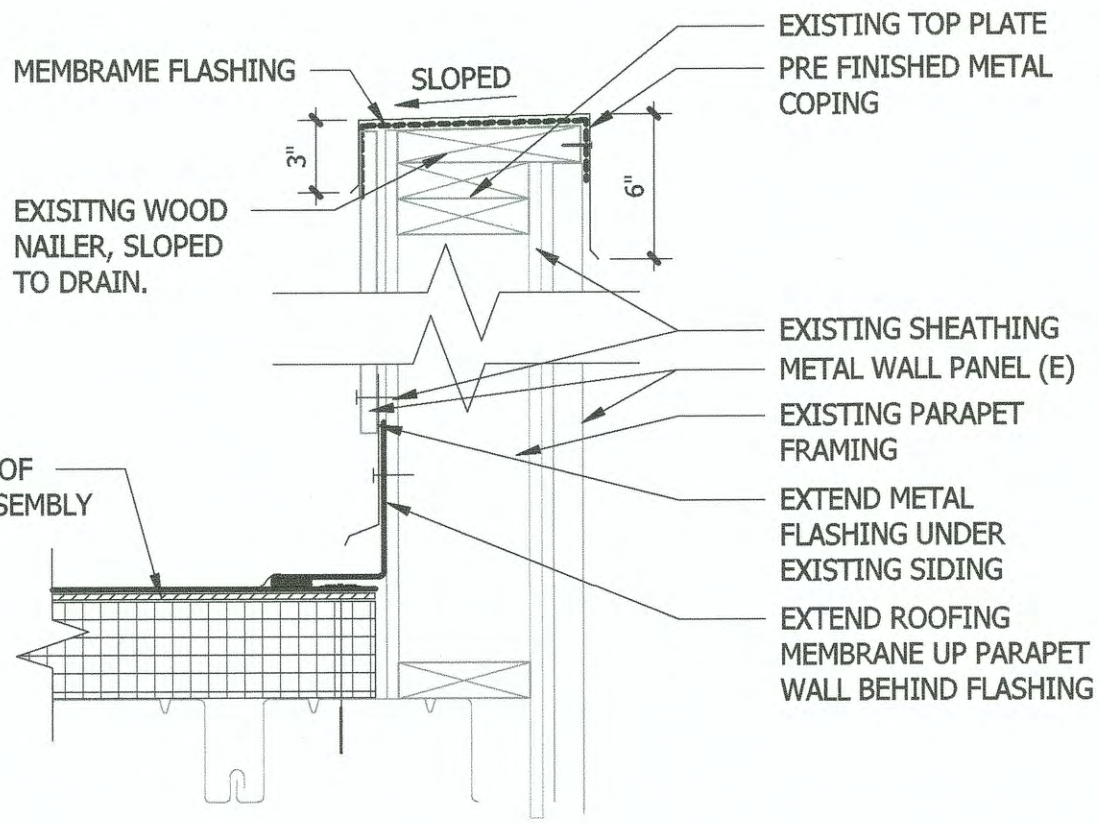
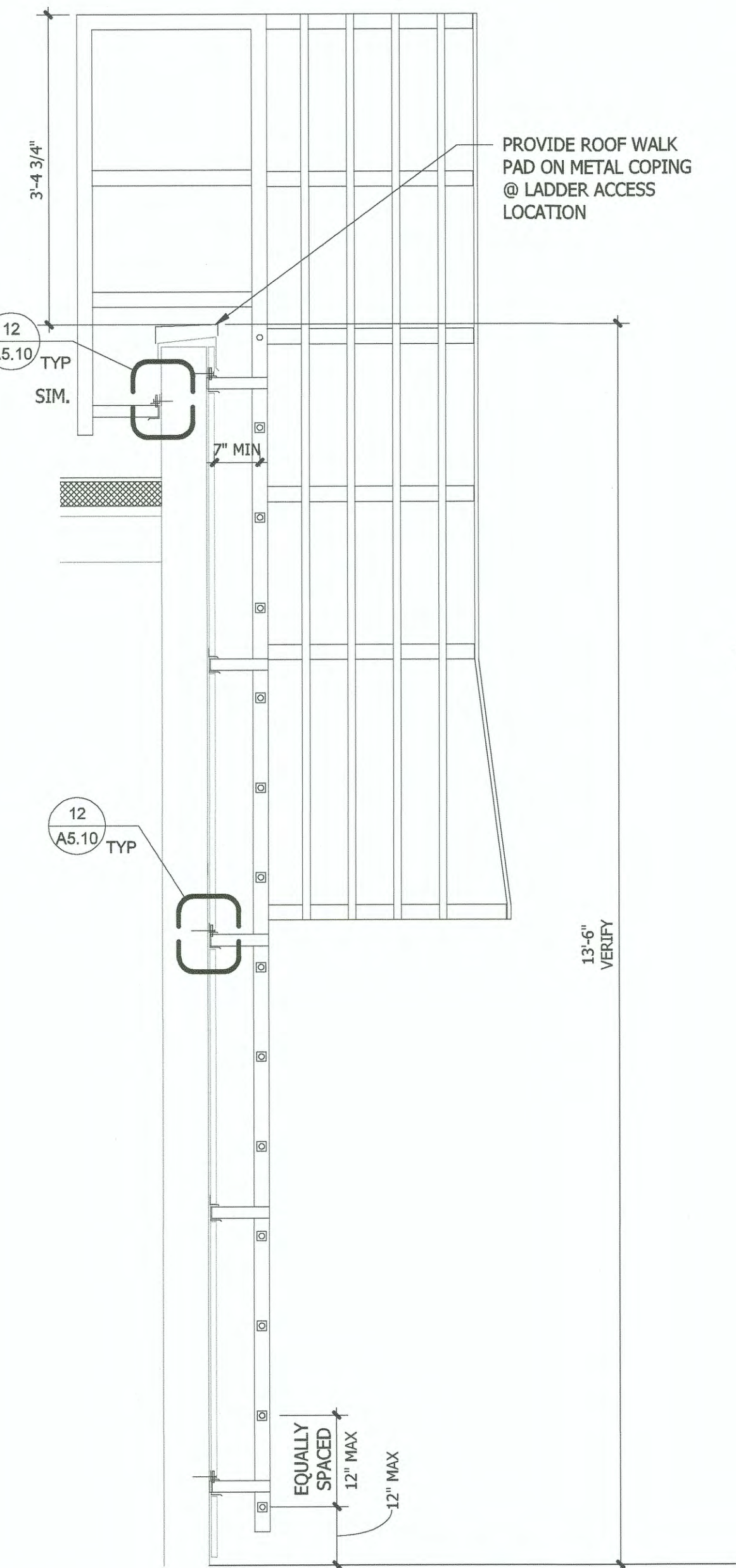
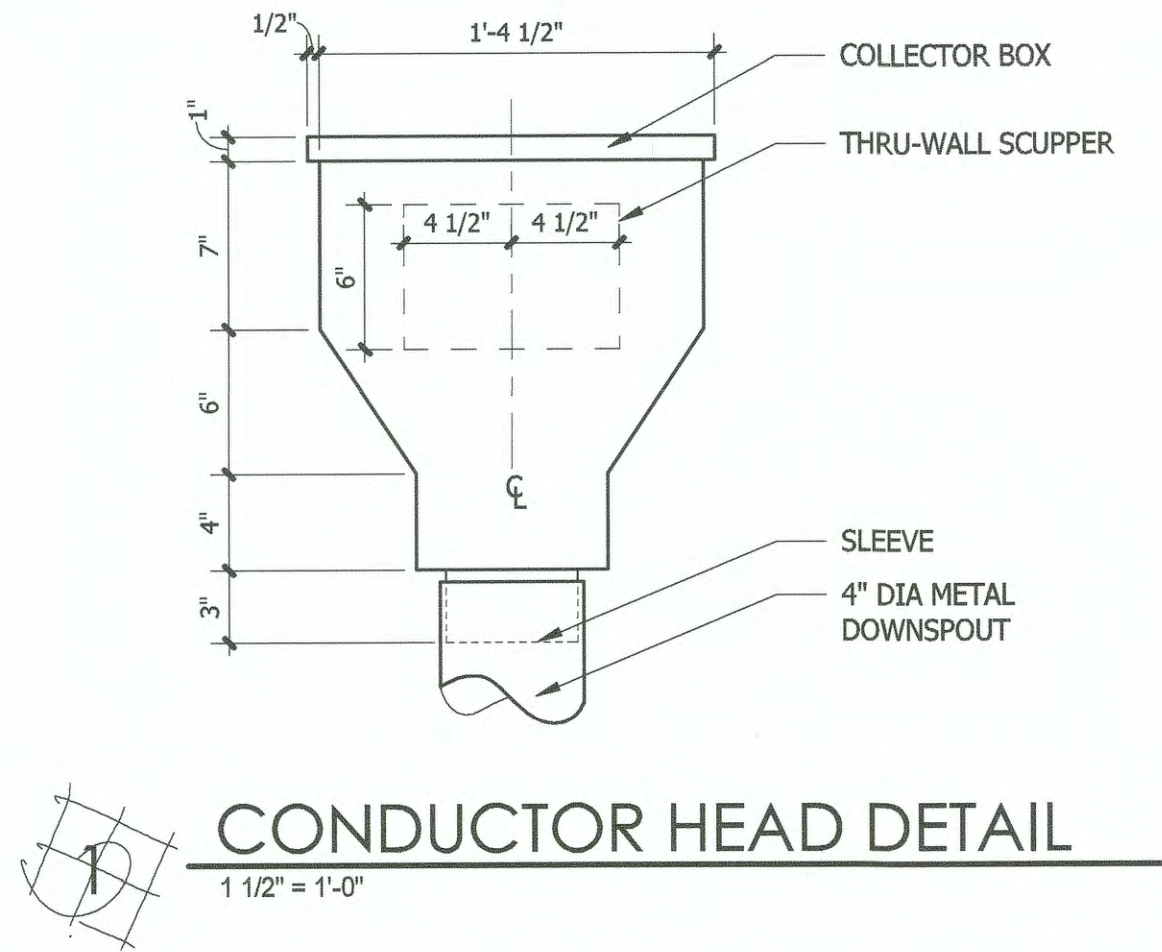
Helix
DESIGN GROUP

MARK: REVISION:
BY:
DATE:

9854 REGISTERED ARCHITECT
LOWELL GATE
STATE OF WASHINGTON

Port of Tacoma
P.O. BOX 1007 TACOMA, WA 98401-0107

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



6603 A5.10 10 OF 19	W. SITCUM BLDG. 100 AND 950 ROOF REPLACEMENTS EXTERIOR DETAILS		Part of Tacoma 6021 12th street east suite 201 tacoma, wa. 98424 tel: 253.922.9037 fax: 253.922.6499 P.O. BOX 1007 TACOMA, WA 98401 (253)954-8441	
	CONTRACT: 071093 M. ID: 201062.02 PHASE: BID SET	TOWNSHIP: 21 DATE-HRZ: WAB3-SF PARCEL:	RANGE: 03 VERT: MLLW 19.39' @ Tide 22 1933 DRAWING SCALE: As indicated	APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: 4/5/19 PRINTED BY: WS PORT ADDRESS: TACOMA, WASHINGTON
LD 03.20.19 CHECKED BY: DATE		APPR: BY: REVISION: DATE:		

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

GENERAL NOTES

CODES AND STANDARDS

1.

ALL METHODS AND MATERIALS SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (IBC) 2015 EDITION AS AMENDED AND ADOPTED BY THE CITY OF TACOMA.
2.

STRUCTURAL AND MISCELLANEOUS STEEL FABRICATIONS AND ERECTION THEREOF SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360) 2010 EDITION, AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) 2010 EDITION.
3.

STRUCTURAL ALUMINUM FABRICATIONS SHALL CONFORM TO THE 2015 ALUMINUM DESIGN GUIDE.
4.

WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1) 2015 EDITION.
5.

WELDING OF STRUCTURAL ALUMINUM SHALL CONFORM TO "STRUCTURAL WELDING CODE - ALUMINUM (AWD D1.2) 2014 EDITION.
6.

TIMBER CONSTRUCTION SHALL CONFORM TO THE AMERICAN WOOD COUNCIL, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018 EDITION.

GENERAL

1.

THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT NECESSARILY COMPLETE FOR CONSTRUCTION PURPOSES. VERIFY INFORMATION SHOWN ON THE DRAWINGS WITH OTHER DOCUMENTS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING THE AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICTS.
2.

VERIFY DIMENSIONS AND DETAILS PRIOR TO FABRICATION AND CONSTRUCTION.
3.

ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS TO EXISTING FEATURES, STRUCTURES, AND UTILITIES THAT ARE TO REMAIN, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4.

PERFORM WORK IN ACCORDANCE WITH PERMIT REQUIREMENTS.
5.

COORDINATE UTILITY AND/OR SECURITY CAMERA INTERRUPTIONS WITH THE OWNER. PROVIDE THE OWNER AT LEAST TWO WEEKS ADVANCED NOTICE OF ANY POSSIBLE IMPACTS. THE OWNER WILL SHUT DOWN AFFECTED UTILITIES AND/OR SECURITY CAMERAS AND TEST THEM ONCE THEY ARE RE-ENERGIZED.

DEMOLITION

1.

CONTAIN THE DEMOLITION WITHIN THE LIMITS DESIGNATED TO PREVENT DAMAGE TO EXISTING STRUCTURES, UTILITIES, OR FACILITIES.
2.

PRIOR TO DEMOLITION, SAWCUT WHERE NOTED TO PROVIDE A SMOOTH CLEAN BREAK BETWEEN ITEMS THAT ARE TO BE DEMOLISHED AND ITEMS THAT ARE TO REMAIN.
3.

DEMOLITION MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF.
4.

THE REMOVAL, HANDLING, HAULING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
5.

THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCIES AND PERMIT REQUIREMENTS.

DESIGN CRITERIA

1.

DEAD LOADS: ACTUAL WEIGHT OF CONSTRUCTION AND MATERIALS OF PERMANENT EQUIPMENT.
2.

LIVE LOADS:

UNIFORM LIVE

80 PSF

WIND

BASIC WIND SPEED (ULTIMATE)

105 MPH

RISK CATEGORY

III

EXPOSURE

D

STRUCTURAL STEEL

1.

STEEL PLATES AND BARS: ASTM A36 (FY=36 KSI)
2.

STEEL PIPE: ASTM A 53, GRADE B, TYPE E OR S (FY=42 KSI).
3.

FASTENERS

A.

ASTM F 3125, GRADE A325, UNO

B.

NUTS: ASTM A 563 (GRADE DH), HEAVY HEX

C.

WASHERS: ASTM F 436
4.

HOT DIP GALVANIZE MISCELLANEOUS STEEL AND FASTENERS. GALVANIZE ITEMS AFTER FABRICATION AS FAR AS PRACTICAL. RESTORE GALVANIZING DAMAGED BY WELDING OR HANDLING WITH A FIELD-APPLIED GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A 780, ANNEX A1, 12 MILS MINIMUM THICKNESS.
5.

AFTER GALVANIZATION, MISCELLANEOUS STEEL SHALL BE PAINTED IN ACCORDANCE WITH THE MASTER PAINTERS INSTITUTE.

A.

EXTERIOR - MPI EXT 5.3D

1.

FIRST COAT: VINYL WASH PRIMER, MPI PRODUCT #80

2.

SECOND COAT: EPOXY, MPI PRODUCT #101

3.

THIRD COAT: POLYURETHANE, MPI PRODUCT #72, FAST DRYING, WITH MINIMUM PENCIL HARDNESS OF 4H PER ASTM D 3363.

4.

MPI GLOSS LEVEL 5.

B.

COORDINATE PAINT COLOR WITH PORT.

6.

WELDERS SHALL BE CURRENTLY CERTIFIED BY THE WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) FOR STRUCTURAL WELDING.

7.

QUALIFY WELDING PROCEDURES, OPERATIONS, WELDERS, TACKERS IN ACCORDANCE WITH AWS D1.1.

8.

ALL PRODUCTS SHALL BE NEW, FREE FROM OXIDATION, CORROSION, AND DEFECTS, AND SHALL BE OF THE SPECIFIED QUALITY.

9.

PROTECT ALL MATERIALS AND FABRICATIONS BEFORE, DURING, AND AFTER INSTALLATION FROM DAMAGE. PROTECT THE INSTALLED WORK OF OTHER TRADE FROM DAMAGE.

10.

SHOP-WELD CONNECTION UNLESS OTHERWISE DIRECTED ON THE DRAWINGS. ALL JOINTS SHALL BE TIGHTLY FITTING, SECURELY FASTENED, SQUARE, PLUMB, STRAIGHT, AND TRUE.

11.

DRILL OR PUNCH HOLES REQUIRED FOR ATTACHED AND BOLTED CONNECTIONS INCLUDING THOSE OF OTHER TRADES. BURNED HOLES ARE NOT ACCEPTABLE.

12.

WELDING OF METAL FABRICATIONS SHALL CONFORM TO AWS D1.1.
- STRUCTURAL ALUMINUM
1.

DESIGN LADDERS, HANDRAIL, AND STAIR LANDING IN ACCORDANCE WITH ALUMINUM DESIGN GUIDE, 2015 EDITION.

2.

ALUMINUM TUBES, PIPES, PLATES AND ANGLES: ASTM B 221 GRADE 6061-T6.

3.

BOLTS, NUTS, WASHERS: STAINLESS STEEL SUITABLE FOR USE WITH ALUMINUM (TYPE 316 OR BETTER).

4.

CONNECTION MOUNTING HARDWARE: GALVANIZED CARBON STEEL ELEMENTS PER THE GENERAL NOTES UNLESS OTHERWISE APPROVED BY THE PORT. PROVIDE DIELECTRIC ISOLATION BETWEEN DISSIMILAR METALS THAT IS SUITABLE FOR LONG-TERM EXPOSURE.

5.

MAKE ALL WELDED CONNECTIONS WITH NEW MATERIAL, CLEAN AND FREE OF CONTAMINANTS.

6.

QUALIFY WELDING PROCEDURES, OPERATIONS, WELDERS, AND TACKERS IN ACCORDANCE WITH AWS D1.2.
- DIMENSIONAL LUMBER
1.

MEET THE REQUIREMENTS OF PS 20-15 AND THE NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER AND BEAR THE WWPA STAMP. NOMINAL MEMBER SIZES ARE GIVEN ON PLAN.

2.

DIMENSIONAL LUMBER SHALL BE DOUGLAS FIR-LARCH, GRADE NO. 1 (S4S).

3.

LEAD HOLES FOR LAG SCREWS SHALL BE PRE-BORED TO 65 PERCENT OF THE SHANK DIAMETER.

4.

NOTCHING AND BORING OF WOOD MEMBERS IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

5.

USE COMMON NAILS. NAILING SHALL CONFORM TO THE MINIMUM REQUIREMENTS CONTAINED IN THE TABLE 2304.9.1 OF THE IBC UNLESS OTHER REQUIREMENTS ARE SHOWN. WHERE POWER DRIVEN NAIL ARE USED, THEY SHALL BE OF EQUIVALENT DIAMETER TO THE COMMON NAILS SPECIFIED.

6.

ALL PRODUCTS SHALL BE NEW.
- ABBREVIATIONS
- | | | | |
|----------|--|--------|-----------------------------------|
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION | MAX | MAXIMUM |
| APPROX | APPROXIMATE | MIN | MINIMUM |
| ARCH | ARCHITECT | MPH | MILES PER HOUR |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | NO | NUMBER |
| AWS | AMERICAN WELDING SOCIETY | NOM | NOMINAL |
| | | NTS | NOT TO SCALE |
| BOT | BOTTOM | OC | ON CENTER |
| | | OD | OUTSIDE DIAMETER |
| CJP | COMPLETE JOINT PENETRATION | OPP | OPPOSITE |
| CL | CENTER LINE | | |
| CLR | CLEAR | PEN | PENETRATION |
| CONN | CONNECTION | PL | PLATE |
| CONT | CONTINUOUS | PS | PRODUCT STANDARD |
| CONT'D | CONTINUED | PSF | POUNDS PER SQUARE FOOT |
| | | | |
| DBL | DOUBLE | R | RADIUS |
| DEMO | DEMOLITION, DEMOLISH | REQ'D | REQUIRED |
| DIA | DIAMETER | | |
| Ø | DIAMETER | S4S | SURFACED ON (4) SIDES |
| DWG | DRAWING | SCH | SCHEDULE |
| | | SECT | SECTION |
| EA | EACH | SIM | SIMILAR |
| EL, ELEV | ELEVATION | SP,SPA | SPACE(S) |
| EQ | EQUAL | SQ | SQUARE |
| EXIST,EX | EXISTING | STD | STANDARD |
| | | | |
| FB | FLAT BAR | T&B | TOP & BOTTOM |
| FT | FEET | THD | THREADED |
| | | TYP | TYPICAL |
| GALV | GALVANIZED | | |
| GR | GRADE | UNO | UNLESS NOTED OTHERWISE |
| | | | |
| HORIZ | HORIZONTAL | W/ | WITH |
| | | W/O | WITH OUT |
| IBC | INTERNATIONAL BUILDING CODE | WT | WEIGHT |
| ICC | INTERNATIONAL CODE COUNCIL | WWPA | WESTERN WOOD PRODUCTS ASSOCIATION |
| ID | INSIDE DIAMETER | | |
| IN | INCH | | |
| INFO | INFORMATION | | |
| | | | |
| KSI | KIPS PER SQUARE INCH | | |
| | | | |
| L | ANGLE (E.G. L4x4x1/4) | | |
| LB(S) | POUND(S) | | |
| LF | LINEAL FEET | | |
-
- 1 SECTION - RAILING CONNECTION
SCALE: 1-1/2" = 1'-0"
- NOTES:
1.

MAX SPACING BETWEEN HANDRAIL SUPPORTS SHALL NOT EXCEED 4'-0".

2.

LOCATE HANDRAIL SUPPORTS 1'-0" FROM CORNERS AND HANDRAIL TERMINATIONS.

3.

REMOVE AND REPLACE SHEATHING AS NEEDED. MATCH FASTENER SIZE AND SPACING.
-
- 2 DETAIL - STEEL PLATE
SCALE: 1-1/2" = 1'-0"
-
- 6603

S1.0

11 OF 19

CONTRACT/CONS: 071093

M. ID: 201062.02

PHASE: BID SET

PORT OF TACOMA

W SITCUM BLDG 100 & 950 ROOF REPLACEMENTS

RAILING DETAILS

TOWNSHIP: 21

RANGE: 03

SECTION: 35

DAT-HRZ: WA83-SF

VERT: MILLW 19.39' @ TIDE 22 1933

PARCEL: DRAWING SCALE: AS SHOWN

CSB

CHECKED BY: MAD

DATE: 3/15/19

APPROVED: [Signature]

DIRECTOR: ENGR. DATE: 4/5/19

PRINTED BY: mike.dodson

Mar 13, 2019

PORT ADDRESS: 401 EAST ALEXANDER AVENUE

TACOMA, WA 98421

Port of Tacoma

33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250
P.O. BOX 187 TACOMA, WA 98401 (253)885-9641

DATE: []

APPR: []

BY: []

REVISION: []

MARK: []

BERGERABAM

33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250
P.O. BOX 187 TACOMA, WA 98401 (253)885-9641

DATE: []

APPR: []

BY: []

REVISION: []

MARK: []

JOSEPH R. GALLOWAY

WASHINGTON

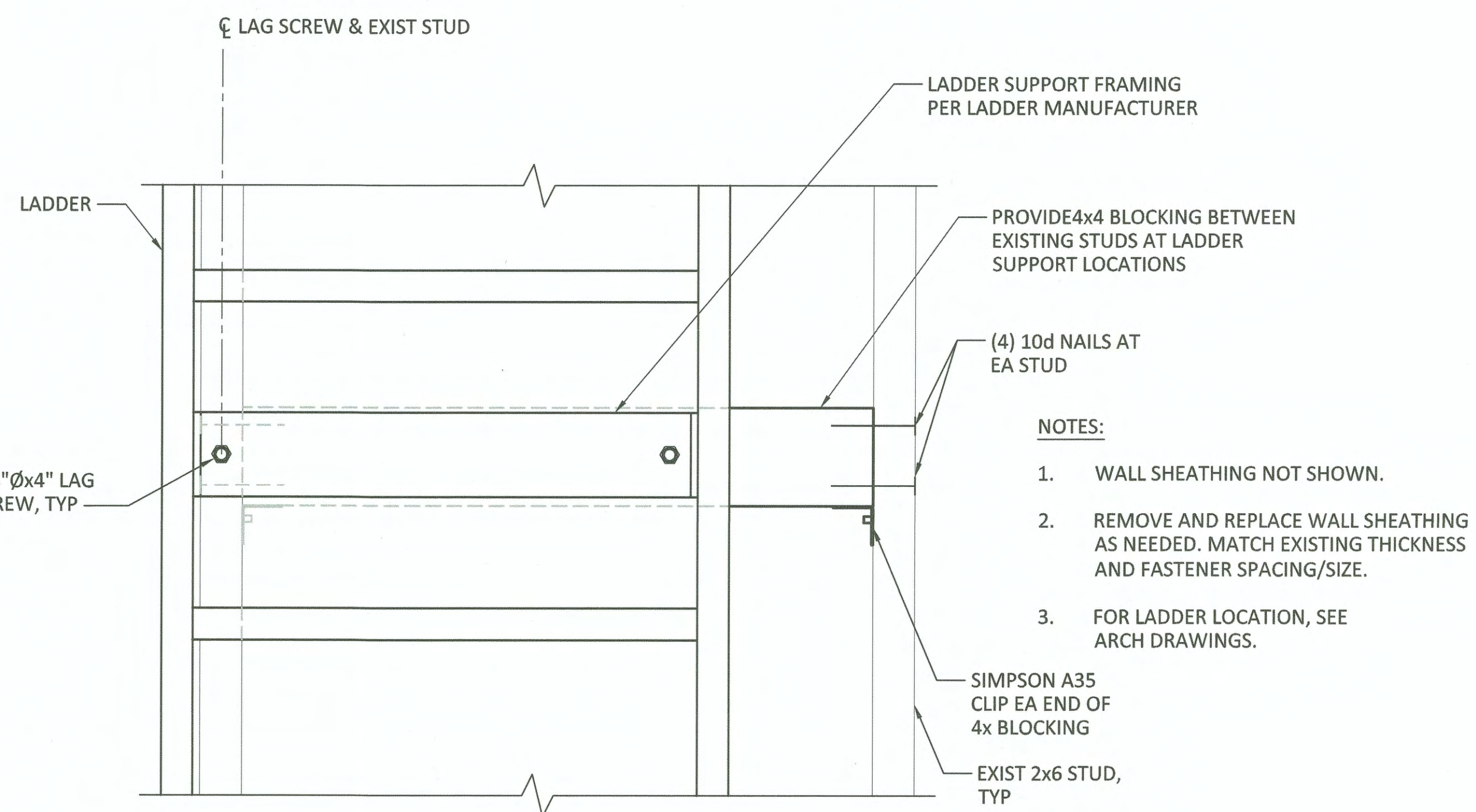
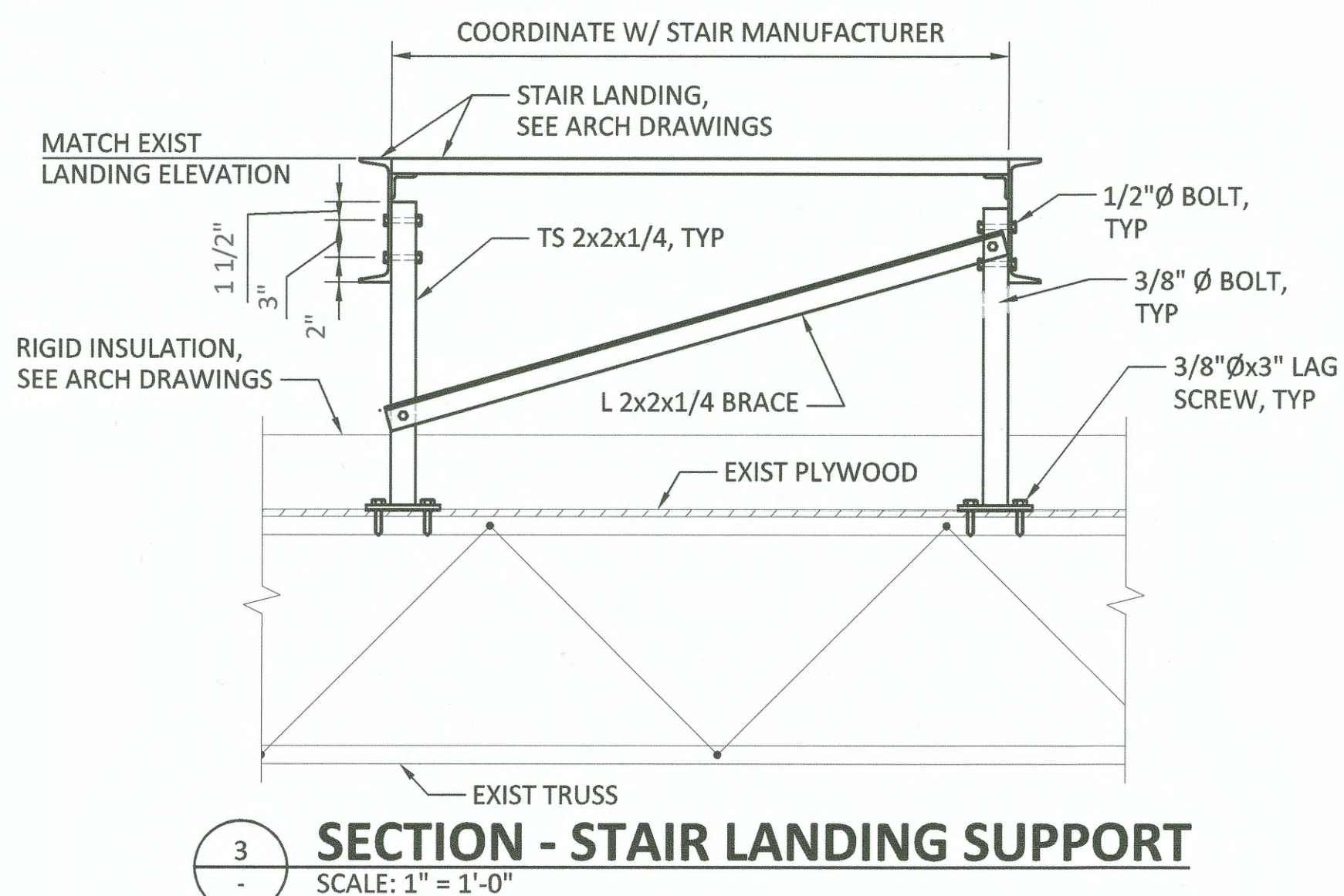
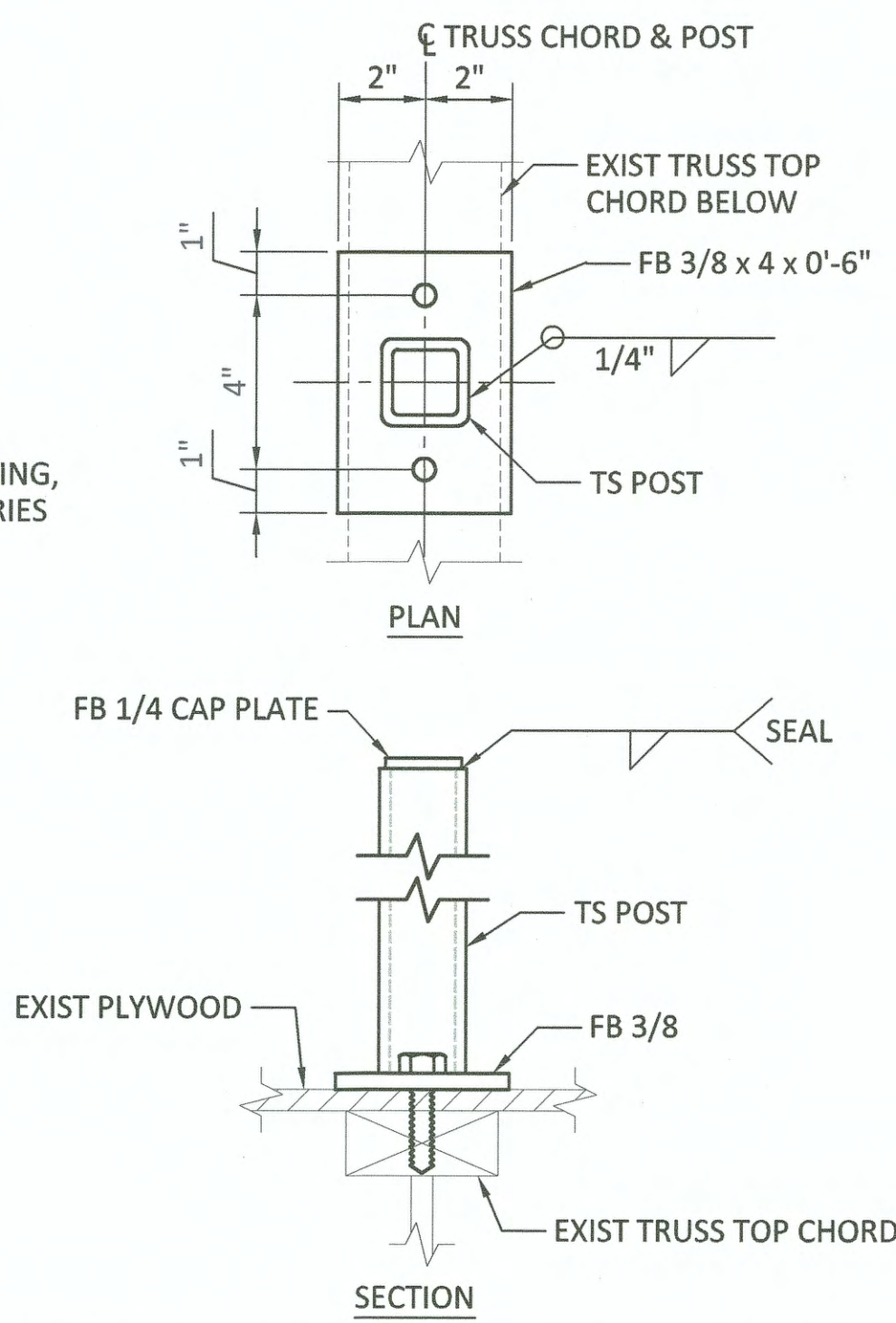
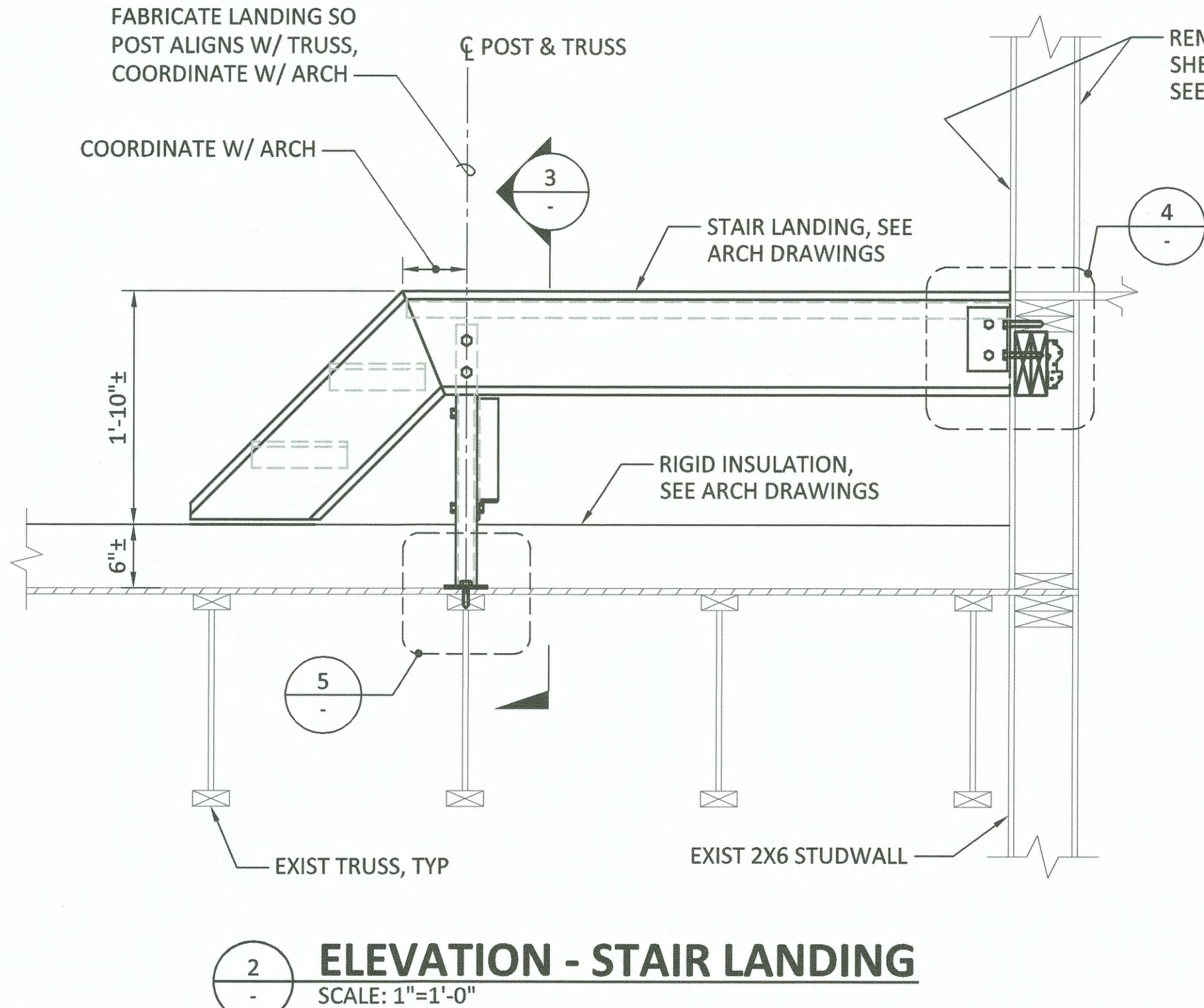
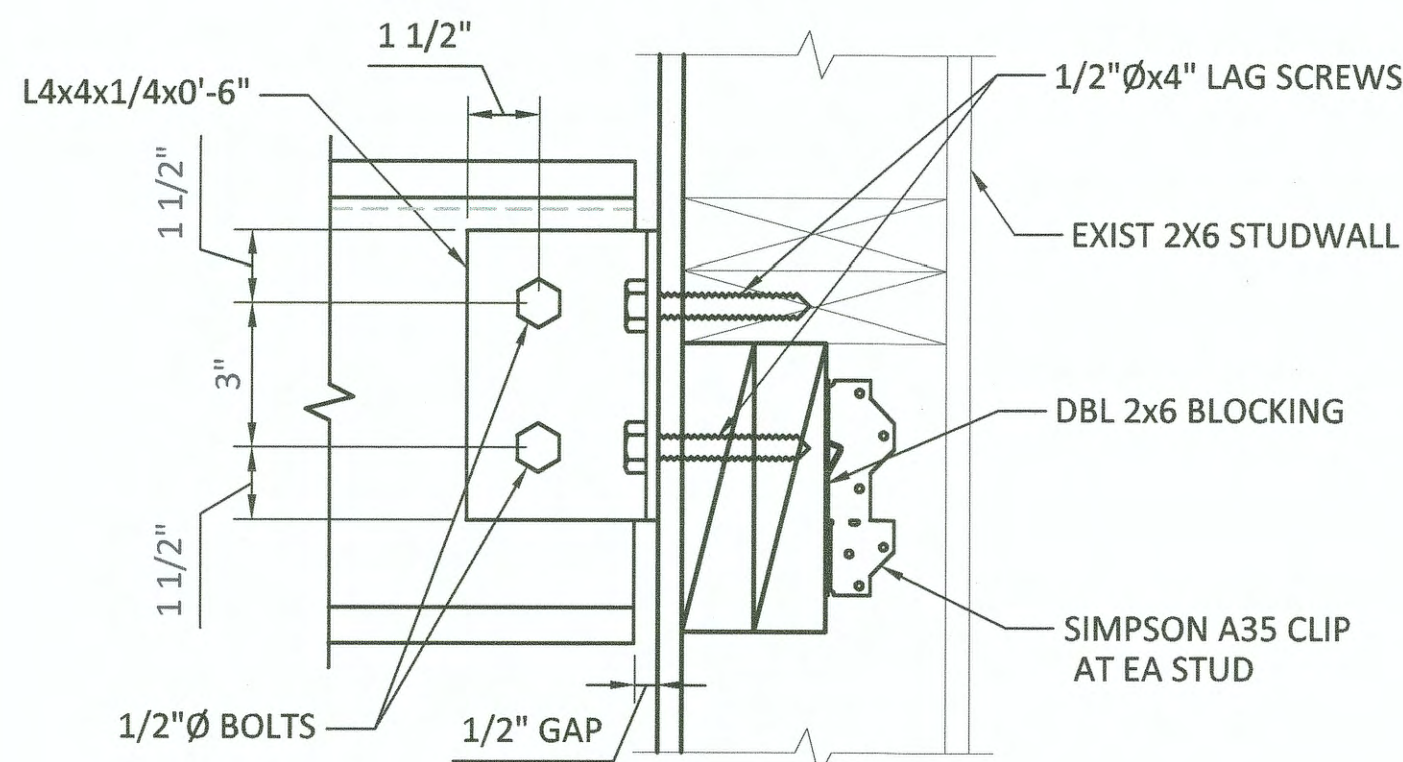
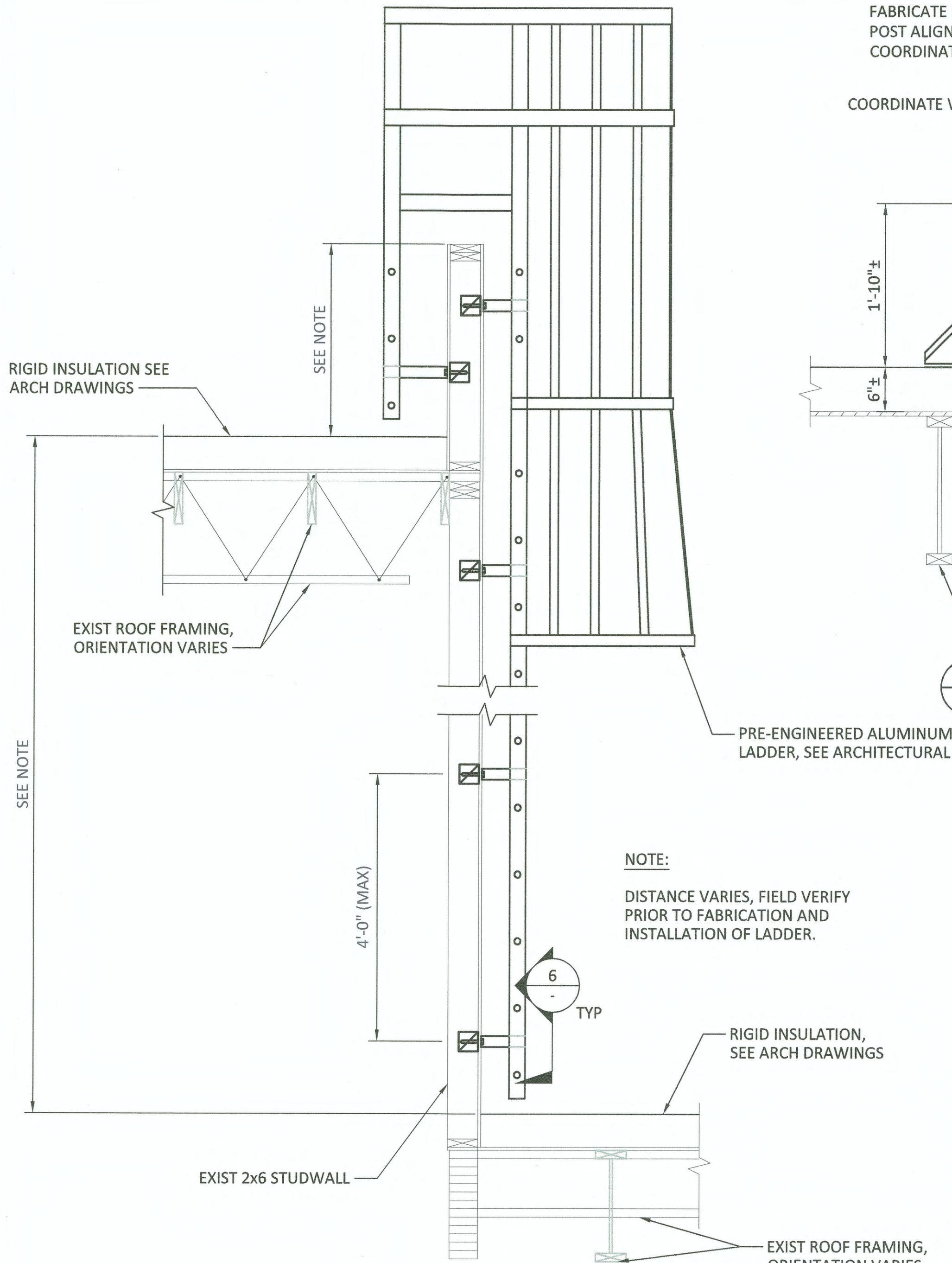
REGISTERED PROFESSIONAL

ENGINEER

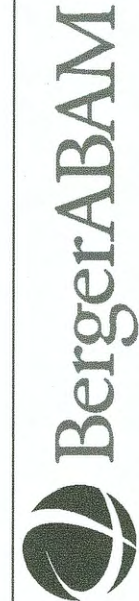
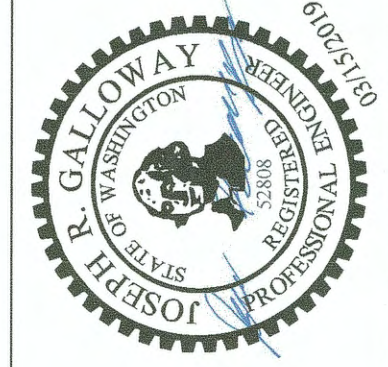
NO. 19052

STATE OF WASHINGTON

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



6603		PORT OF TACOMA		CSB	3/15/19	CHECKED BY DATE	
S1.1		W SITCUM BLDG 100 & 950 ROOF REPLACEMENTS		MAD	3/15/19	DATE	
12 OF 19		LADDER AND STAIR LANDING DETAILS		PROJ. ENGR	DATE	DATE	
CONT/CONS:	071093	TOWNSHIP:	21	DIRECTOR	4/5/14	DATE	DATE
M. ID:	201062.02	RANGE:	03	SECTION:	35	PRINTED BY:	mike.dodson Mar 13, 2019
PHASE:	BID SET	DAT-HRZ:	WA83-SF	VERT:	MLW 19.39' @ TIDE 22 1933	PORT ADDRESS:	401 EAST ALEXANDER AVENUE
		DRAWING SCALE:		AS SHOWN	TACOMA, WA 98421		



33301 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2250



APPR: DATE:
BY:
REVISION:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION