

PORT OF TACOMA
TERMINAL 7 WAREHOUSE REHABILITATION
PROJECT NO. 091569
CONTRACT NO. 070160

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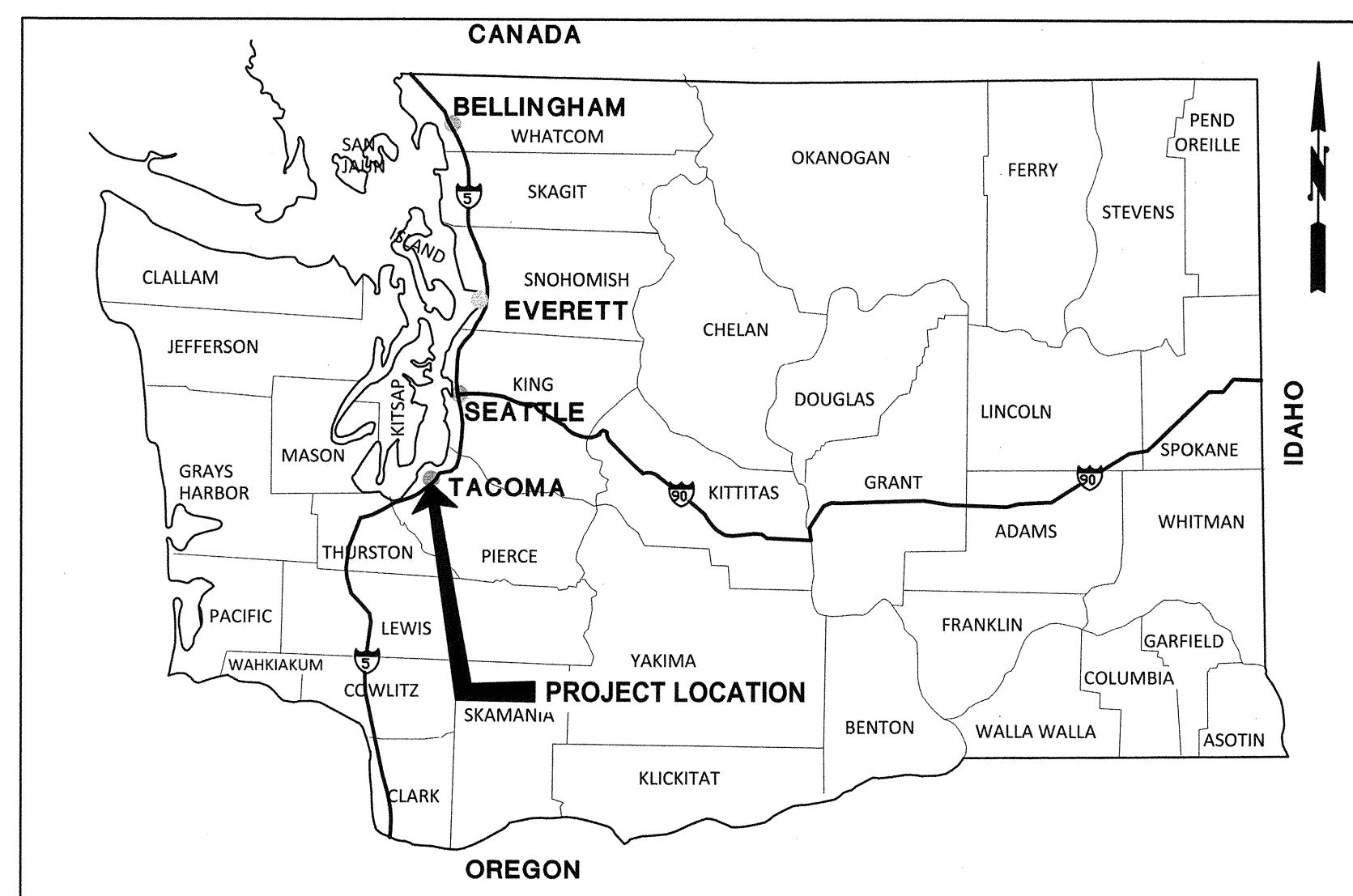
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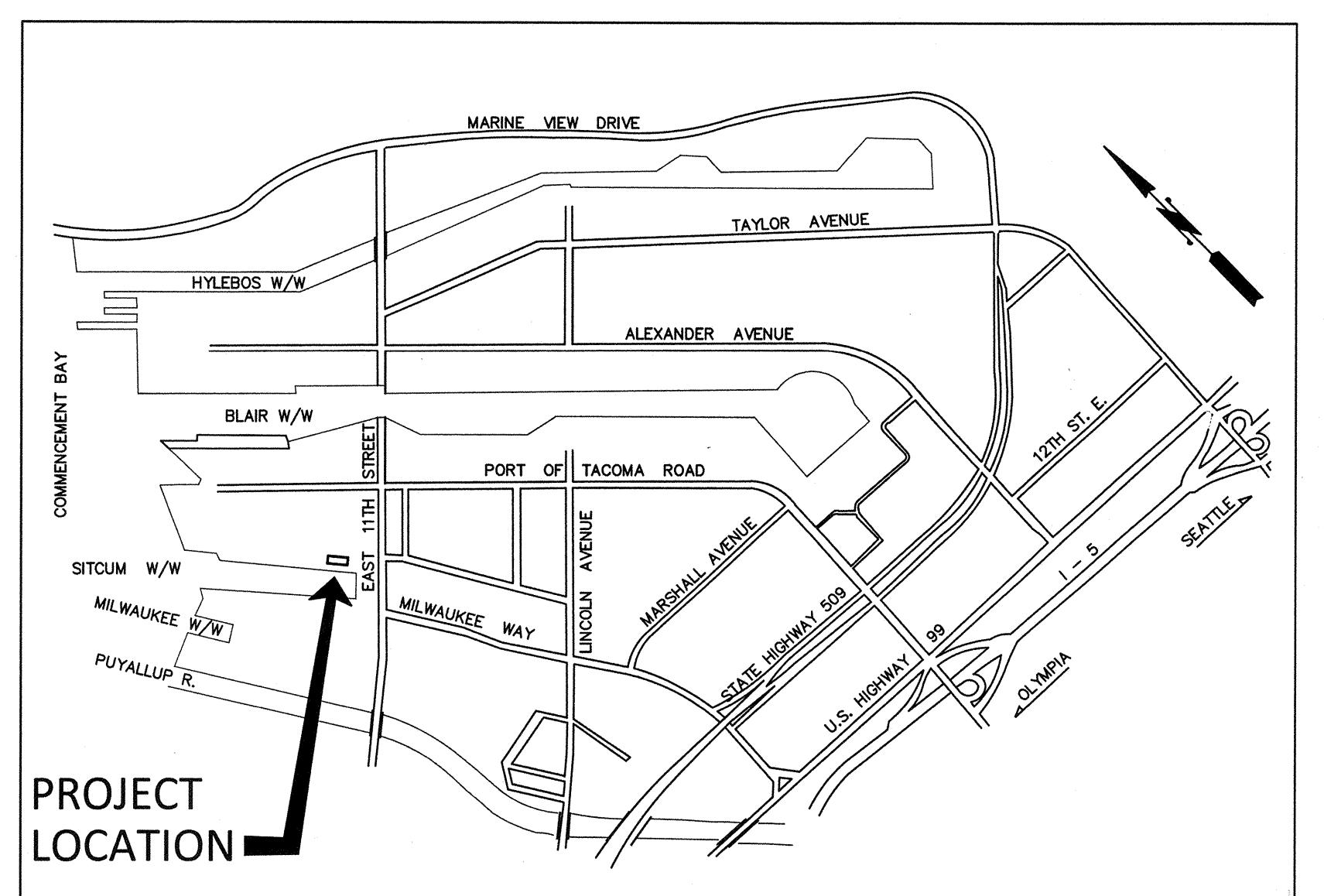
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AREA MAP

WASHINGTON

NTS



VICINITY MAP

PORT OF TACOMA

NTS

6553		TERMINAL 7 WAREHOUSE REHABILITATION	
G1.0		COVER SHEET	
SHEET 1 OF 36			
CONTRACT/CONS:	070160	TOWNSHIP: 21N	RANGE: 03E
MASTER ID NO:	091569	DAT-HRZ: NAD83 (2007)	VERT: MLLW 19.39' @ TIDE 22 1933
PHASE:	FORBID	PARCEL:	DRAWING SCALE: AS SHOWN
APPROVED:	<i>John Brown</i>	DSE	3/16/16
DIR OF ENG	TH	CHECKED BY	3/16/16
PROJ. ENGR		DATE	3/16/16
PRINTED BY:	mike.dodson		
PORT ADDRESS:	ONE SITCUM WAY		
TACOMA, WA 98421-2300	3/16/2016		
MARK:	REVISION:	BY:	APPR:
			DATE:

FOR BID

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29	R11	REFERENCE DRAWINGS - SHEET 11
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ABBREVIATIONS

&	AND	EXIST	EXISTING	PT	PRESSURE TREATED
@	AT	FDN	FOUNDATION	QTY	QUANTITY
AB	ANCHOR BOLT	FIN	FINISH	RAD, R	RADIUS
ACP	ASPHALT CONCRETE PAVEMENT	FO	FACE OF	REF	REFERENCE
ADD'L	ADDITIONAL	FT	FOOT, FEET	REQ'D	REQUIRED
AF&PA	AMERICAN FOREST AND PAPER ASSOCIATION	FTG	FOOTING	REV	REVISION/REVISED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GALV	GALVANIZED	S	SOUTH
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	GL	GLULAM	SCHED	SCHEDULE
ALT	ALTERNATE	GLC	GLU-LAM BEAM	SF	SQUARE FOOT
ALUM	ALUMINIUM	GRID	GLU-LAM COLUMN	SHT	SHEET
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	H, HGT	GRIDLINE	SIM	SIMILAR
APA	AMERICAN PLYWOOD ASSOCIATION	HORZ	HEIGHT	SPA	SPACE, SPACING
APPROX	APPROXIMATE	HSS	HORIZONTAL	SPEC	SPECIFICATION
ARCH	ARCHITECT	IBC	HOLLOW STRUCTURAL SECTION	SPEC'D	SPECIFIED
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	ID	INTERNATIONAL BUILDING CODE	SQ. YD.	SQUARE YARD
AWC	AMERICAN WOOD COUNCIL	IN	INTERNATIONAL EXISTING BUILDING CODE	STD	STANDARD
AWS	AMERICAN WELDING SOCIETY	KSI	INSIDE DIAMETER	STL	STEEL
BO	BOTTOM OF	LF	INCH	STRUCT	STRUCTURE / STRUCTURAL
BTM	BOTTOM	LOC	KIPS PER SQUARE INCH	SYMM	SYMMETRICAL
BTR	BETTER	MAX	LINEAR FEET	T&B	TOP AND BOTTOM
C	STEEL CHANNEL	MFR	LOCATION	T&G	TONGUE AND GROOVE
CIP	CAST IN PLACE	MIN	MAXIMUM	TBD	TO BE DETERMINED
CL	CENTERLINE	MISC	MANUFACTURER	TH	THICK
COL	COLUMN	N	MINIMUM	THRU	THROUGH
CONC	CONCRETE	N/A	MISCELLANEOUS	TMP	TEMPORARY
CONN	CONNECTION	NDS	NOT APPLICABLE	TO	TOP OF
CONT	CONTINUOUS	NIST	NATIONAL DESIGN SPECIFICATIONS	TWIC	TRANSPORTATION WORKER IDENTIFICATION CREDENTIAL
CONT'D	CONTINUED	FOR WOOD CONSTRUCTION	UNLESS NOTED OTHERWISE	TYP	TYPICAL
CTR	CENTER	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY	VERTICAL	UNO	UNLESS NOTED OTHERWISE
DEMO	DEMOLISH	NO	W/	WABO	WITHOUT
DF-L	DOUGLAS FIR-LARCH	NOM	W/O	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS	
DIA OR Ø	DIAMETER	NTS	WABO	WEIGHT	WEIGHT
DIM	DIMENSION	OA	OVERALL	WT	WESTERN WOOD PRODUCTS ASSOCIATION
DIR	DIRECTION	OC	ON CENTER	WWPA	ASSOCIATION
DWG	DRAWING	OPP	OPPOSITE		
E	EAST	PEB	PLYWOOD EDGE BLOCKING		
EA	EACH	PERF	PERFORATED		
EL OR ELEV	ELEVATION	PERIM	PERIMETER		
EMBED	EMBEDMENT	PERP	PERPENDICULAR		
EQ	EQUAL	PL	PLATE		
EQUIV	EQUIVALENT	PLY	PLYWOOD		
ETC	ETCETERA	PROJ	PROJECT		
		PSI	POUNDS PER SQUARE INCH		

PORT PROVIDED MATERIALS						
QUANTITY	ITEM	ITEM NO.	MATERIAL	GRADE	LENGTH (FEET)	COMMENTS
COLUMNS						
20	5-1/8 x 13-1/2	CL-1	GLULAM	24F-E13	26	
10	5-1/8 x 21	CL-2	GLULAM	24F-E13	26	
2	3-1/8x13-1/2	CL-3	GLULAM	24F-E13	28	
CHORDS						
2	5-1/8 x 15	CD-1	GLULAM	24F-E13	85	
4	5-1/8 x 15	CD-2	GLULAM	24F-E13	85	
4	5-1/8 x 15	CD-3	GLULAM	24F-E13	85	
2	5-1/8 x 15	CD-4	GLULAM	24F-E13	90	
2	5-1/8 x 15	CD-5	GLULAM	24F-E13	90	
1	3-1/8 x 15	CD-6	GLULAM	24F-E13	57	
GIRTS						
30	4x8	-	DOUG FIR LARCH	SELECT STRUCTURAL	20	
60	2x12	-	DOUG FIR LARCH	SELECT STRUCTURAL	20	
HEADERS						
5	6x8	-	DOUG FIR LARCH	SELECT STRUCTURAL	20	
1	3-1/8 x 13-1/2	-	GLULAM	24F-E13	20	
PURLINS						
5	2x12	-	DOUG FIR LARCH	SELECT STRUCTURAL	20	
45	3x10	-	DOUG FIR LARCH	SELECT STRUCTURAL	20	
HARDWARE						
400	4"Ø SHEAR PLATES	-	CAST IRON	32510	-	
200	3/4"Ø BOLT	-	A307	A	-	TYPE 'A', 'B', 'C' SPLICE
4	3/4"Ø BOLT	-	A307	A	-	TYPE 'E' SPLICE
6	3/4"Ø BOLT	-	A307	A	-	COLUMN CL-3
210	NUT	-	A563 HEX HEAD	A	-	FOR 3/4"Ø BOLTS

NOTE:

CONTRACTOR PROVIDED MATERIALS SHALL BE AS INDICATED IN THE STRUCTURAL DRAWINGS AND ATTACHED REFERENCE DRAWINGS AND INCLUDE BUT ARE NOT LIMITED TO TIMBER FRAMING, BLOCKING, PLYWOOD, FASTENERS, HANGERS, CLIPS, SIDING, BOLTS, NUTS, WASHERS, LAG BOLTS, STEEL FABRICATIONS, WINDOWS, FLASHING, GUTTERS, DOWNSPOUTS, ROOFING MATERIALS, CONDUIT, AND VENTS.

G1.1		TERMINAL 7 WAREHOUSE REHABILITATION		APPROVED: <i>Mike Johnson</i>	DSE: 3/16/16	CHECKED BY: <i>Mike Johnson</i>	DATE: 3/16/16
		DRAWING LIST, ABBREVIATIONS & PORT PROVIDED MATERIALS	SECTION: 34				
SHEET 2 OF 36		TOWNSHIP: 21N	RANGE: 03E	DIR OF ENG: <i>Mike Johnson</i>	PROJ. NO.: 091569	PRINTED BY: <i>Mike Johnson</i>	DATE: 3/16/16
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PARCEL: FOR BID							
FOR BID							

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STRUCTURAL ENGINEERS
PROFESSIONAL ENGINEERS
Mike Johnson

3/16/2016

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GENERAL NOTES

PROJECT APPROACH

THE WAREHOUSE AT PORT OF TACOMA'S (PORT) TERMINAL 7 IS A TIMBER/GLULAM FRAMED BUILDING CONSTRUCTED IN THE EARLY 1970s. RECENT INSPECTIONS HAVE DETERMINED THAT SEVERAL OF THE PRIMARY STRUCTURAL MEMBERS ARE DAMAGED, ATTRIBUTED PRIMARILY TO WATER INFILTRATION AND COLUMN IMPACTS FROM FORKLIFTS.

THE DESIGN INTENT FOR THIS PROJECT IS TO REHABILITATE THE WAREHOUSE BY REPLACING DAMAGED STRUCTURAL COMPONENTS WITH NEW MATERIALS OF THE SAME, OR SIMILAR SIZE, AND STRENGTH. FOR REPAIRS TO EXISTING BUILDINGS, THE INTERNATIONAL EXISTING BUILDING CODE (IEBC) CHAPTER 3, SECTION 301.1, PROVIDES COMPLIANCE METHODS TO USE FOR REHABILITATION.

THE WORK AREA COMPLIANCE METHOD WAS USED FOR THIS PROJECT. UNDER THE WORK AREA METHOD, CHAPTER 6 OF THE IEBC PROVIDES CRITERIA FOR PERFORMING REPAIRS TO THE LATERAL FORCE-RESISTING SYSTEM (LFRS) AND THE VERTICAL GRAVITY LOAD CARRYING ELEMENTS. THE TYPE AND EXTENT OF REPAIRS IS DEPENDENT ON WHETHER THE STRUCTURE HAS SUFFERED SUBSTANTIAL STRUCTURAL DAMAGE.

IT'S BEEN DETERMINED THAT THE LATERAL AND GRAVITY ELEMENTS DO NOT HAVE SUBSTANTIAL STRUCTURAL DAMAGE, AND IEBC SECTION 606.2.1 STATES THAT THE DAMAGED ELEMENTS SHALL BE PERMITTED TO BE RESTORED TO THEIR PREDAMAGED CONDITION.

1. LATERAL FORCE-RESISTING SYSTEM

INSPECTIONS HAVE BEEN PERFORMED ON THIS BUILDING IN RECENT YEARS. THOSE INSPECTIONS HAVE ESTIMATED THAT APPROXIMATELY 50% OF THE PRIMARY STRUCTURAL MEMBERS IN THE WEST AND NORTH WALLS NEED TO BE REPAIRED OR REPLACED AND THAT 25% OF THE PRIMARY STRUCTURAL MEMBERS IN THE SOUTH AND EAST WALLS NEED TO BE REPAIRED OR REPLACED.

NOTE THAT REPAIR/REPLACEMENT PERCENTAGES FROM PREVIOUS INSPECTION EFFORTS ARE ESTIMATES BASED ON VISUAL OBSERVATIONS AND DO NOT NECESSARILY REFLECT THE ACTUAL AMOUNT OF DAMAGE WITHIN AN INDIVIDUAL MEMBER.

VERTICAL ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM ARE COMPRISED OF THE COLUMNS. A SECTION LOSS OF 2-INCHES DEEP BY 12-INCHES HIGH (ON THE NARROW GLULAM COLUMN FACE) HAS BEEN ASSUMED, WHERE MOST OF THE WATER DAMAGE HAS OCCURRED AND HAS BEEN OBSERVED. THE ASSOCIATED LOSS OF STRENGTH OCCURS AT THE NAIL-TO-PLYWOOD/COLUMN INTERFACE AND RESULTS IN A 4% REDUCTION IN SHEAR WALL STRENGTH AND IS CONSISTENT WITH THE VISUAL INSPECTION OBSERVATIONS.

AS A RESULT, THE LATERAL LOAD-CARRYING CAPACITY OF THE STRUCTURE HAS BEEN REDUCED BY APPROXIMATELY 4% (< 33% THRESHOLD PER IEBC).

2. GRAVITY LOAD CARRYING SYSTEM

THE GLULAM COLUMNS SUPPORT THE VERTICAL GRAVITY LOADS FROM THE ROOF. A UNIFORM SECTION LOSS OF 2-INCHES ON THE NARROW GLULAM COLUMN FACE HAS BEEN ASSUMED AND RESULTS IN A STRENGTH REDUCTION OF 15%.

AS A RESULT, THE CAPACITY OF THE GRAVITY LOAD CARRYING ELEMENTS HAS BEEN REDUCED BY APPROXIMATELY 15% (< 20% THRESHOLD PER IEBC).

3. CONCLUSION

THE WAREHOUSE DOES NOT HAVE SUBSTANTIAL STRUCTURAL DAMAGE, PER IEBC IN THE LATERAL FORCE-RESISTING SYSTEM OR THE GRAVITY LOAD CARRYING SYSTEM AND THEREFORE, REPLACING DAMAGED TIMBER ELEMENTS WITH IN-KIND MATERIALS/SIZES/STRENGTHS MEETS THE PROVISIONS OF THE IEBC.

TRANSLUCENT WINDOW PANELS

- FIBERGLASS REINFORCED POLYMER
 - PANEL: RESOLUTE "30" SERIES FS25A, OR APPROVED EQUAL
 - SIZE: 4.2"x1 1/16" RIB CORRUGATION - TRANSLUCENT

SHEET METAL FLASHING & TRIM

- ALUMINUM SHEET WITH SMOOTH FLAT SURFACE PER ASTM B 209. PROVIDE TEMPER AS REQ'D TO SUIT FORMING OPERATIONS AND PERFORMANCE.
- AS-MILLED FINISH: STANDARD ONE-SIDE BRIGHT

CODES AND STANDARDS

- ALL METHODS AND MATERIALS SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION AS AMENDED AND ADOPTED BY THE CITY OF TACOMA.
- STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION 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.
- WELDING OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO "STRUCTURAL WELDING CODE-STEEL" (AWS D1.1) 2010 EDITION.
- AMERICAN FOREST & PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS-2012.
- AMERICAN SOFTWOOD LUMBER STANDARD, VOLUNTARY PRODUCT STANDARD, PS 20-15, 2015.
- AMERICAN PLYWOOD ASSOCIATION (APA), PERFORMANCE RATED SIDING, E 300, 2009.
- AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, DESIGN SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES, AITC 117, 2010.
- NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), VOLUNTARY PRODUCT STANDARD PS 1-07, 2007.

GENERAL

- THESE NOTES CONTAIN GENERAL INFORMATION AND ARE NOT NECESSARILY COMPLETE FOR ALL CONSTRUCTION PURPOSES. VERIFY INFORMATION SHOWN ON THE DRAWINGS WITH OTHER DOCUMENTS INCLUDING REFERENCE DRAWINGS AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER BEFORE BEGINNING THE AFFECTED WORK. THE ENGINEER WILL RESOLVE ANY SUCH CONFLICTS.
- ALL SHOP DRAWINGS FOR TIMBER ELEMENTS, REINFORCEMENT, AND MISCELLANEOUS STEEL SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- DESIGN AND INSTALL TEMPORARY SUPPORTS TO EXISTING STRUCTURE AS REQUIRED TO MAINTAIN STABILITY, PREVENT OVERSTRESS, AND PREVENT DAMAGE PRIOR TO AND DURING REPAIR. SUBMIT DETAILS AND CALCULATIONS FOR TEMPORARY SUPPORTS TO THE ENGINEER FOR REVIEW. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- TERMINAL 7 WILL BE IN OPERATION DURING CONSTRUCTION. COORDINATE WORK WITH THE PORT'S ONGOING OPERATIONS AND KEEP PERSONNEL, MATERIALS, AND EQUIPMENT CLEAR OF ALL SHIPPING AND TERMINAL ACTIVITIES EXCEPT WITHIN PRE-APPROVED DESIGNATED AREAS OF THE CONSTRUCTION.
- VERIFY ALL EXISTING DIMENSIONS AND DETAILS PRIOR TO FABRICATION AND CONSTRUCTION. REVIEW ALL REFERENCE DRAWINGS FOR CONSISTENCY.

- DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS TO EXISTING FEATURES, STRUCTURES, AND UTILITIES THAT ARE TO REMAIN, SHALL BE REPAIRED OR REPLACED AT THE ENGINEER'S DIRECTION, AND AT THE CONTRACTOR'S EXPENSE.
- PREPARE DEMOLITION BEYOND THE LIMITS SHOWN IN THE CONTRACT DOCUMENTS.
- PERFORM WORK IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS.
- COORDINATE ALL UTILITY INTERRUPTIONS THAT MAY BE REQUIRED WITH THE ENGINEER. PROVIDE AT LEAST 2 WEEKS ADVANCE NOTICE OF ANY POSSIBLE INTERRUPTIONS OR IMPACTS ON UTILITIES. THE ENGINEER WILL SHUT DOWN AFFECTED UTILITIES AND TEST THEM WHEN THEY ARE RE-ENERGIZED.
- IT IS NOT INTENDED THAT UTILITIES WILL BE REMOVED TO FACILITATE THE WORK. THE CONTRACTOR SHALL WORK AROUND EXISTING UTILITIES.

DEMOLITION

- CONTAIN THE DEMOLITION WITHIN THE LIMITS DESIGNATED, AND PREVENT DAMAGE TO EXISTING STRUCTURES, UTILITIES, OR FACILITIES.
- PRIOR TO GENERAL DEMOLITION, SAWCUT WHERE NOTED, AND PROVIDE A SMOOTH CLEAN TRANSITION BETWEEN ITEMS THAT ARE TO BE DEMOLISHED AND ITEMS THAT ARE TO REMAIN.
- ALL DEMOLITION MATERIAL, EXCEPT AS NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, HAULING, AND DISPOSAL OF ALL DEMOLITION MATERIALS, SHALL BE IN ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS.
- DISPOSAL OF ALL DEMOLITION AND CONSTRUCTION MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE ITSELF WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCIES AND PERMIT REQUIREMENTS.
- ACCORDING TO A HAZARDOUS MATERIAL SURVEY, ASBESTOS-CONTAINING MATERIAL IS PRESENT IN THE WAREHOUSE AND CANOPY ROOF MEMBRANES. SEE SPECIFICATIONS FOR PROPER REMOVAL HANDLING AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL.

STRUCTURAL STEEL

- STEEL PLATES AND BARS: ASTM A36
- ANGLES AND CHANNELS: ASTM A36
- WIDE FLANGE SECTIONS: ASTM A992
- HSS SECTIONS: ASTM A500, GRADE B (46KSI MIN YIELD)
- FASTENERS (UNLESS OTHERWISE NOTED)
 - BOLTS: ASTM A 307, GRADE A
 - NUTS: ASTM A 563, HEAVY HEX
 - MALLEABLE IRON WASHERS SHALL BE USED UNDER ALL NUT AND BOLT HEADS BEARING ON TIMBER. WASHERS BEARING AGAINST OTHER MATERIAL SHALL CONFORM TO ASTM F 436.
- WELDS - USE LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE RECOMMENDATIONS OF AWS AND AISC, SUITABLE TO THE PARTICULAR MATERIALS AND SITUATIONS. SEE SPECIFICATIONS FOR WPS AND WELDER QUALIFICATION REQUIREMENTS.

- FIELD WELDING SHALL BE PERFORMED BY WELDERS WHO ARE CURRENTLY CERTIFIED WITH THE WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO), SUBMIT EVIDENCE OF CERTIFICATION. ONLY PRE-QUALIFIED WELDS SHALL BE USED.

NON-SHRINK GROUT

- NON-SHRINK GROUT SHALL BE CEMENTITIOUS HIGH PRECISION, NATURAL AGGREGATE, NON-METALLIC, NON-STAINING, CONFORMING TO ASTM C 1107. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PRE-GROUTING OF BASE PLATES WILL NOT BE PERMITTED.

ROOFING

- ROOF SYSTEM SHALL CONSIST OF A MULTI-LAYER MODIFIED BITUMEN ROOF MEMBRANE, SEE DETAIL ON SHEET S4.0 FOR A DESCRIPTION OF AN ACCEPTABLE ROOFING SYSTEM.
 - WARRANTED FOR 10 YEARS TO BE WEATHER TIGHT AND FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.
 - WARRANTY SHALL NOT CONTAIN CONDITIONAL STATEMENTS WHICH REQUIRE EXPENDITURES FOR EXTERNALLY SOURCED INSPECTIONS OR SERVICES TO MAINTAIN THE WARRANTY.
 - INTERFACE AND BOND BETWEEN EXISTING ROOFING AND NEW ROOFING SHALL BE INCLUDED IN THE WARRANTY.
- ALL LAYERS OF ROOFING MATERIALS SHALL BE COMPATIBLE WITH ONE ANOTHER, SEE SPECIFICATIONS.
 - TOTAL THICKNESS SHALL MATCH THE ADJOINING SURFACES.
 - MAINTENANCE REQUIREMENTS SHALL BE ABLE TO BE PERFORMED BY PORT MAINTENANCE LABOR AND RESOURCES.

DIMENSIONAL LUMBER

- MEET THE REQUIREMENTS OF PS 20-15 AND THE NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER AND BEAR THE WWP A STAMP. NOMINAL MEMBER SIZES ARE GIVEN ON PLAN (2x4, 2x6, ETC.).
- MINIMUM DIMENSIONAL LUMBER GRADES:
PURLENS/GIRTS DF-L SELECT STRUCTURAL
LUMBER NOT NOTED: DF-L SELECT STRUCTURAL
- LUMBER WITH MINIMUM DIMENSION 2" (NOMINAL) SHALL BE STAMPED "SURFACE-DRY" AND SHALL HAVE MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NO MORE THAN 19 PERCENT. LUMBER WITH MINIMUM DIMENSION 4" (NOMINAL) OR GREATER SHALL BE STAMPED "SURFACE-GREEN" AND SHALL BE AIR DRIED TO HAVE MOISTURE CONTENT OF NO MORE THAN 19 PERCENT PRIOR TO INSTALLATION.
- NOTCHING AND BORING OF WOOD MEMBERS IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- PROVIDE MALLEABLE IRON WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBERS.
- USE COMMON NAILS. NAILING SHALL CONFORM TO THE MINIMUM REQUIREMENTS CONTAINED IN TABLE 2304.9.1 OF THE IBC UNLESS OTHER REQUIREMENTS ARE SHOWN. WHERE POWER DRIVEN NAILS ARE USED, THEY SHALL BE OF EQUIVALENT DIAMETER TO THE COMMON NAILS SPECIFIED.
- PRE-DRILL HOLES AND PREVENT SPLITTING.

SHEATHING

- PLYWOOD ROOF SHEATHING:
 - THICKNESS SHALL BE 5/8" AND SHALL CONFORM TO NIST VOLUNTARY PRODUCT STANDARD PS 1-07.
 - LAYUP WITH 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION.
- SHEARWALL SHEATHING:
 - PLYWOOD: THICKNESS SHALL BE 1/2" AND SHALL CONFORM TO NIST VOLUNTARY PRODUCT STANDARD PS 1-07.
 - SIDING: SHALL BE APA 303 T1-11. THICKNESS SHALL BE 5/8" WITH 1/4" DEEP, 3/8" WIDE GROOVES AT 4" OC. PROVIDE SHIPLAPPED EDGES.
- SHEATHING CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEADS ARE FLUSH WITH THE SURFACE.

GLUE-LAMINATED TIMBER

- GLUE-LAMINATED WOOD BEAMS SHALL BE DOUGLAS FIR COAST REGION, KILN DRIED, AITC SPECIFICATION 24F-E13 (FB = 2400 PSI).
- PROVIDE AITC STAMP ON TIMBER AND SUBMIT CERTIFICATE TO ENGINEER. MATERIALS SHALL BE OBTAINED FROM AN AITC-APPROVED FABRICATOR.
- GLULAM BEAMS SHALL FIT SNUG AND TIGHT IN THEIR CONNECTIONS AND DEVELOP FULL BEARING AS INDICATED.
- NO SUBSTITUTION OF OTHER SPECIES IS ALLOWED. GLULAM ADHESIVE SHALL BE "WET-USE" TYPE.
- IF MATERIAL IS NOT PORT PROVIDED, SUBMIT LAYOUT PLANS AND SHOP DRAWINGS INCLUDING CONNECTIONS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- NOTCHING AND BORING OF GLULAM TIMBER IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

WOOD FRAMING CONNECTORS

- ALL HANGERS, CLIPS, TIES, STRAPS, ETC... SHALL BE FROM SIMPSON STRONG-TIE OR APPROVED EQUAL. SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- shear plates shall be manufactured in accordance with ASTM D 5933.

REFERENCE DRAWINGS

- REFERENCE DRAWINGS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE LOCATED IN THIS PACKAGE AFTER THE STRUCTURAL DRAWINGS. REVIEW ALL REFERENCE DRAWINGS.

SPECIAL INSPECTIONS

- THE ELEMENTS REQUIRING SPECIAL INSPECTIONS PER IBC CHAPTER 17 ARE:
 - STRUCTURAL STEEL
 - STRUCTURAL WELDING

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Federal Way, Washington 98003-2600
MARK: REVISION: BY: APPR: DATE:


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S. ENGLAND, P.E.
DARREN S. ENGLAND, P.E.
PROFESSIONAL ENGINEER
33006

3/16/2016
J. S. TAYLOR, P.E.
J. S. TAYLOR, P.E.
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3/16/2016
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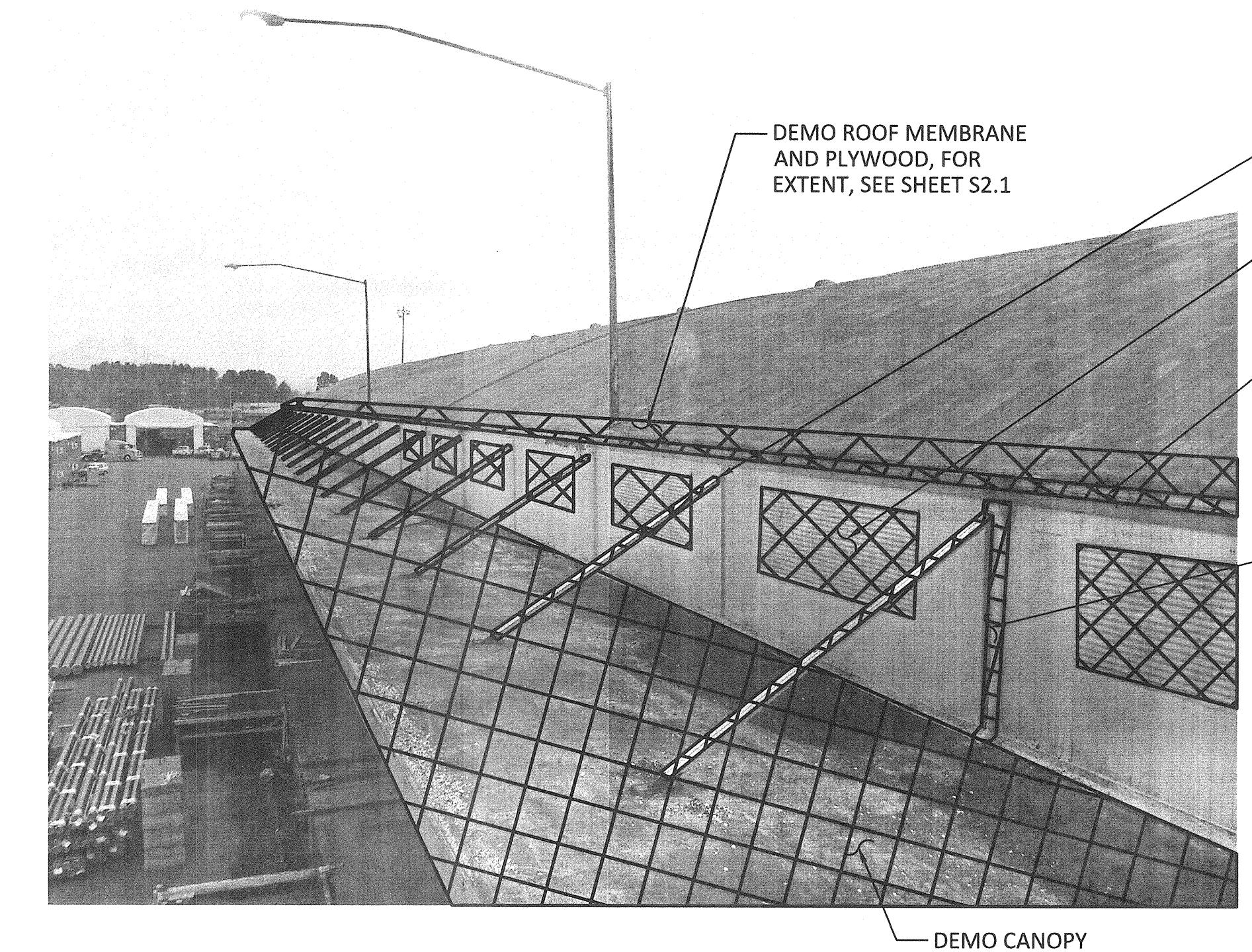
3/16/2016

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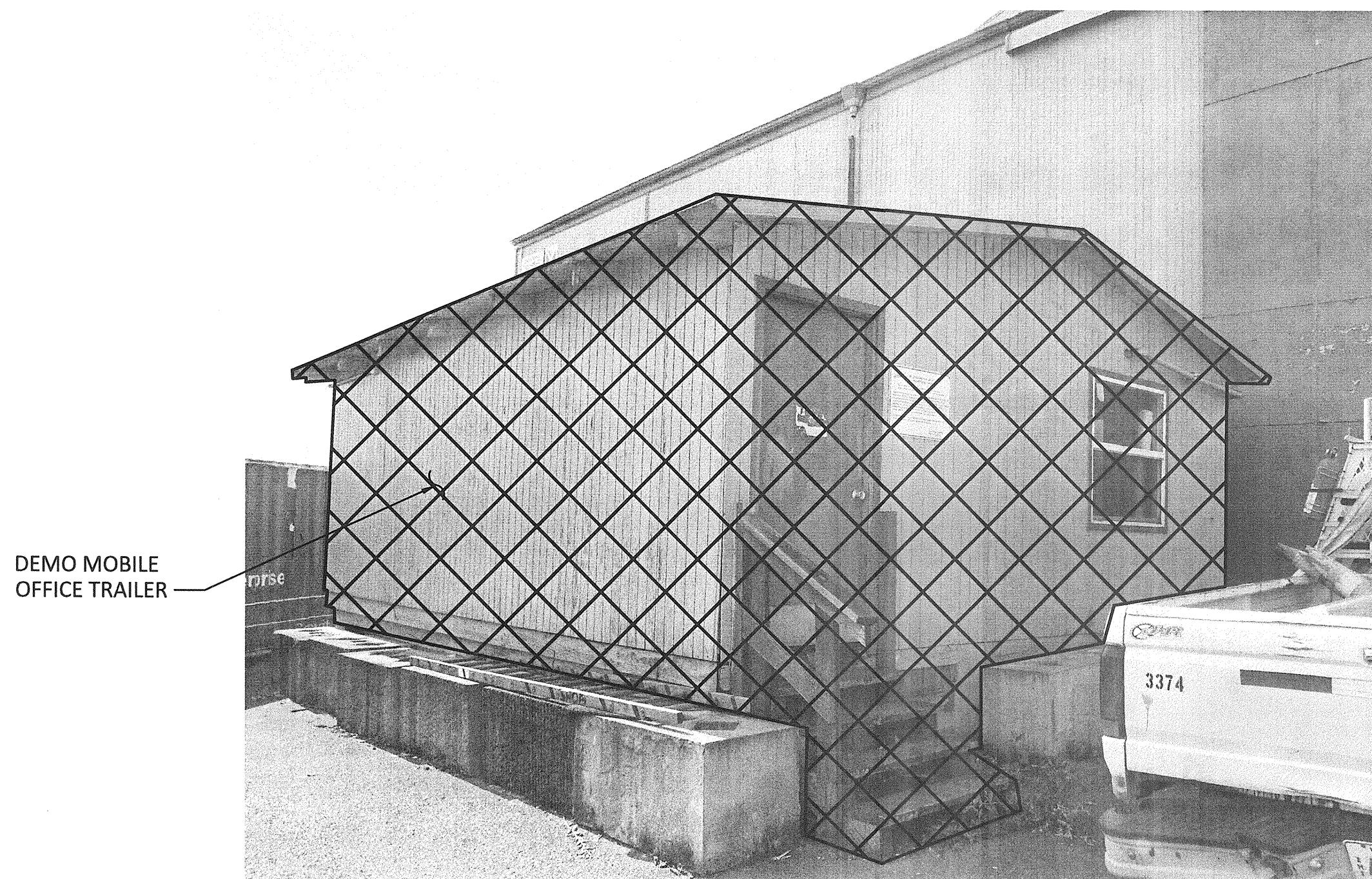
3/16/2016



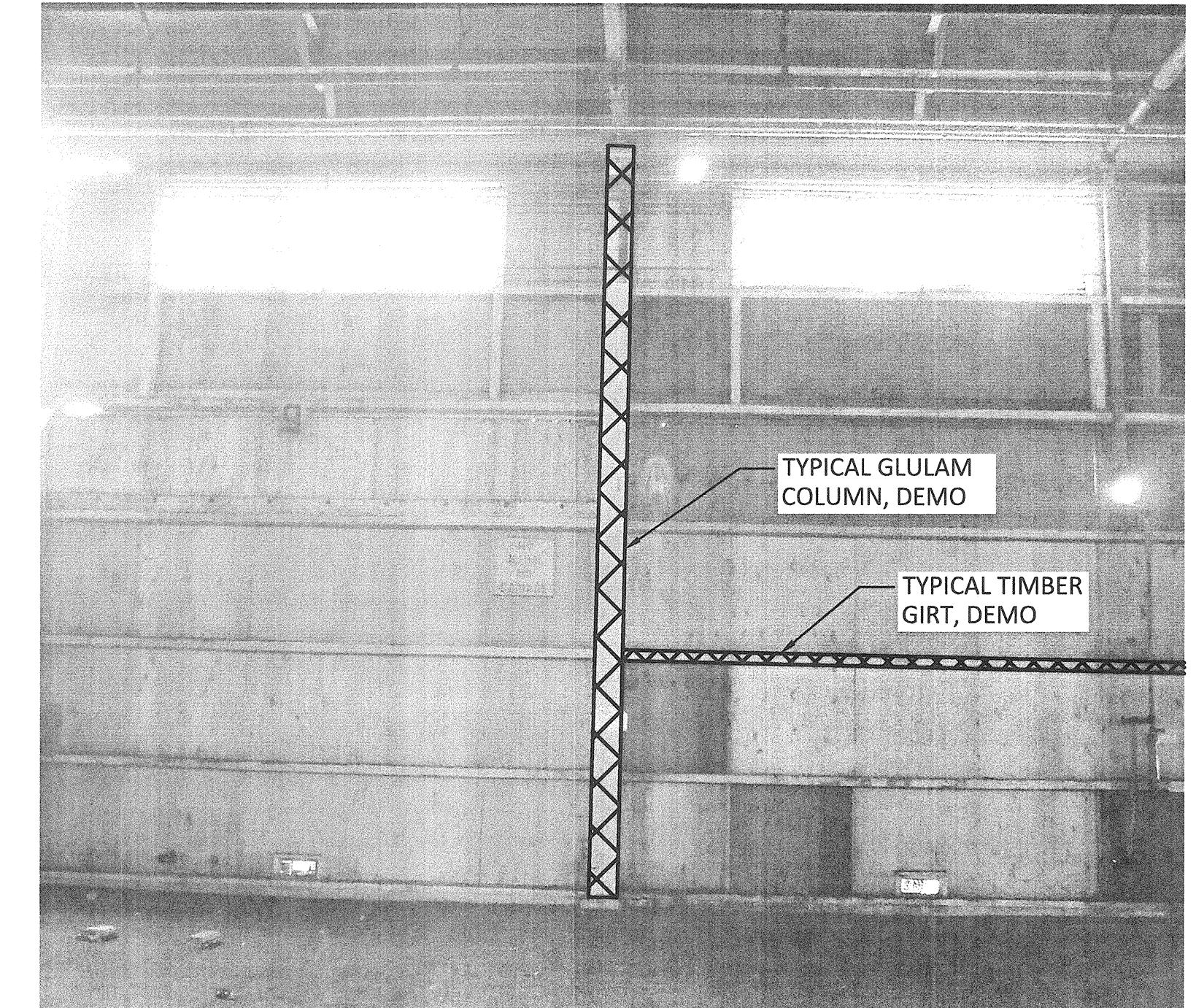
1 IMAGE - EAST CANOPY (LOOKING SOUTH)
SCALE: NTS



2 IMAGE - EAST CANOPY (LOOKING SOUTHWEST)
SCALE: NTS

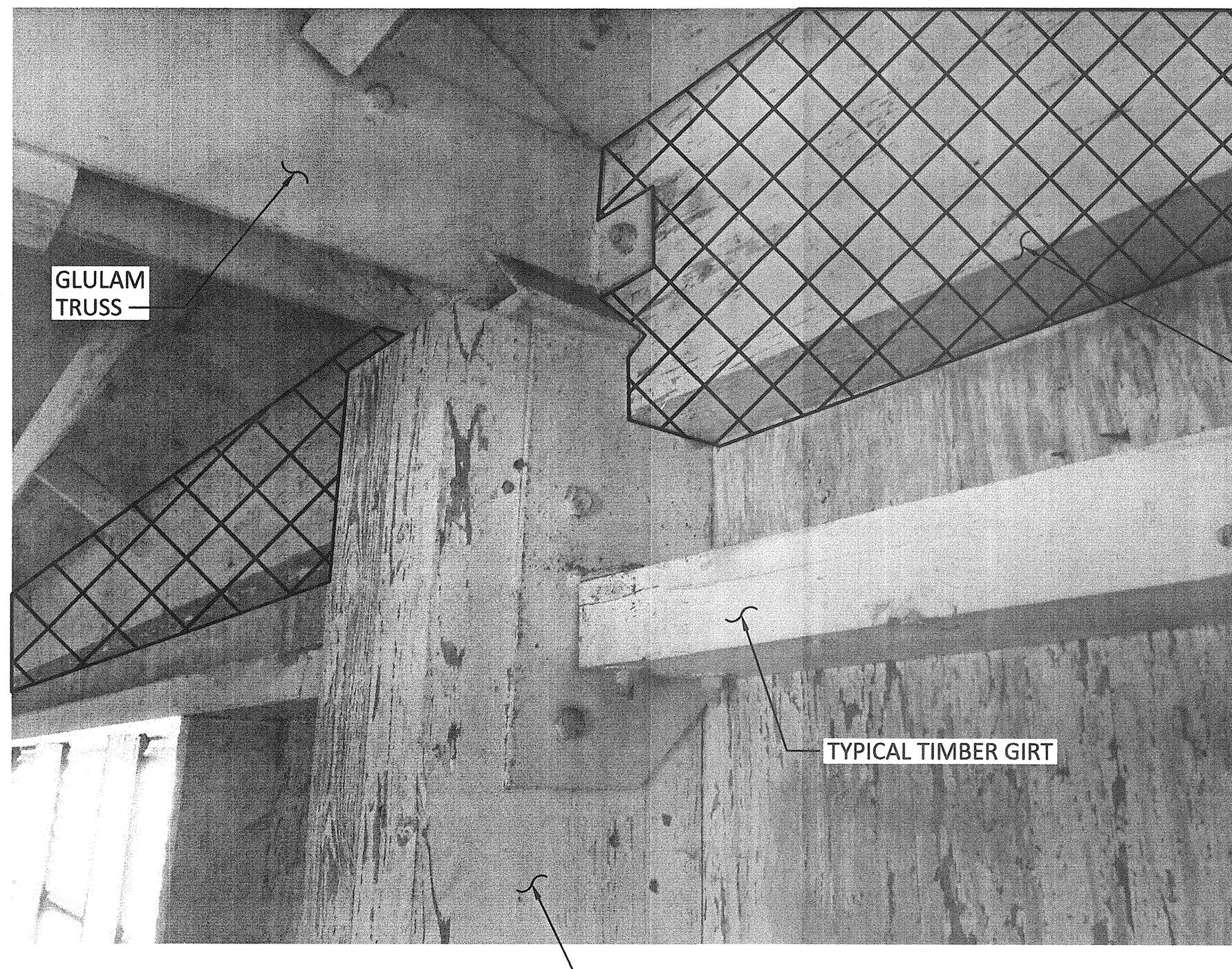


3 IMAGE - PERSONNEL SHED/BREAKROOM (LOOKING NORTHWEST)
SCALE: NTS

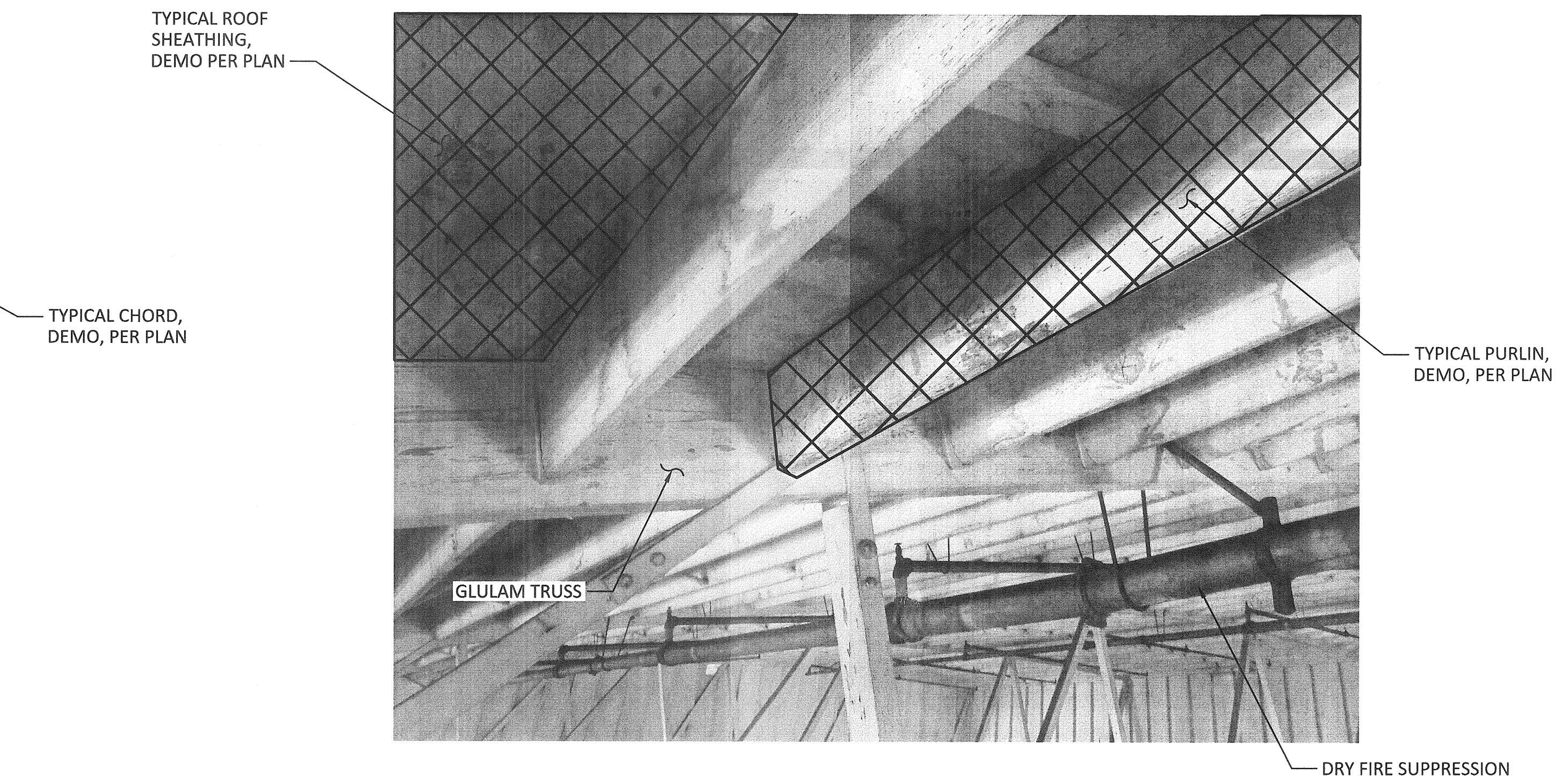


4 IMAGE - TYPICAL INTERIOR COLUMN
SCALE: NTS

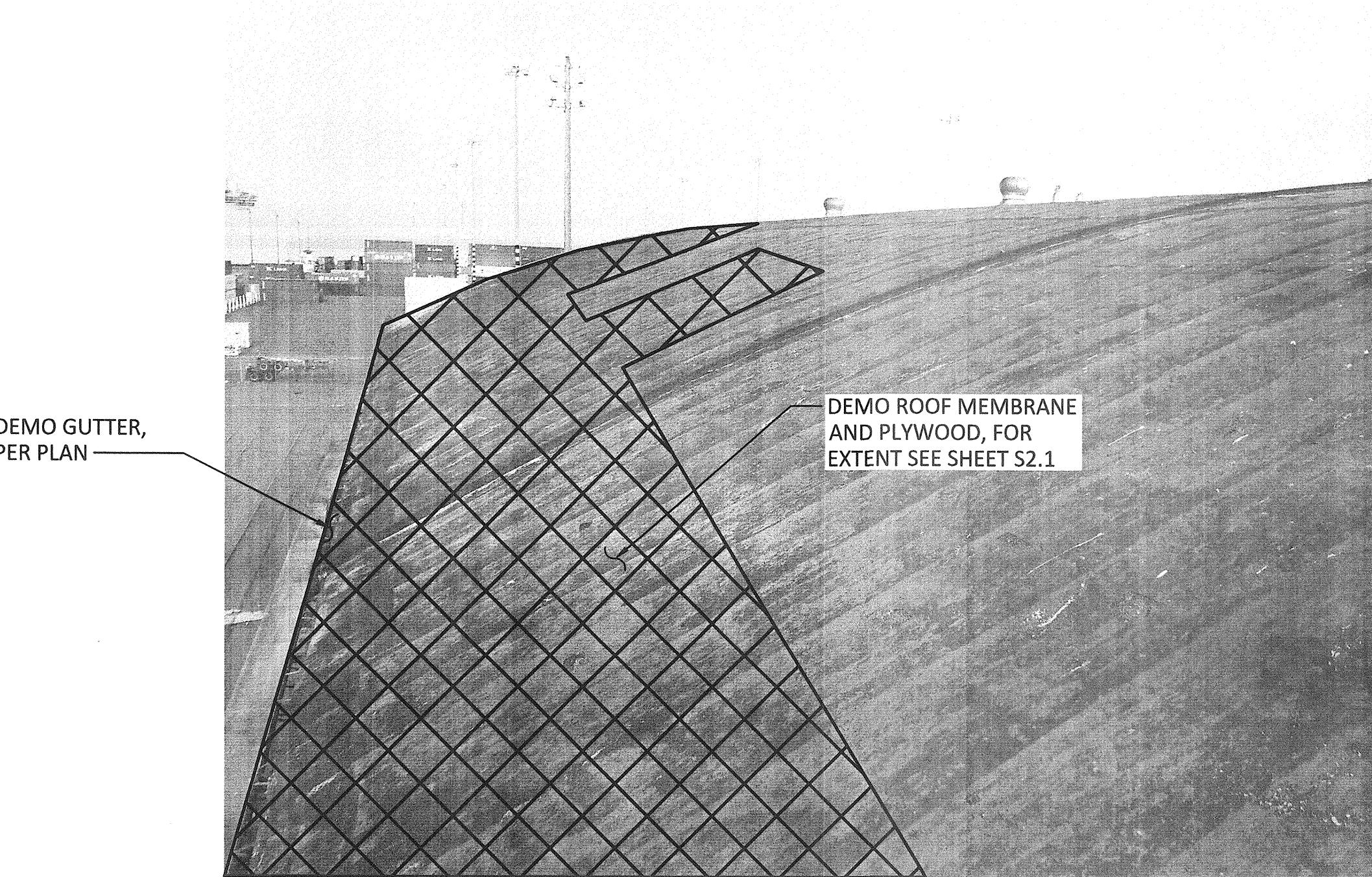
D1.0		TERMINAL 7 WAREHOUSE REHABILITATION	
		APPROVED: <i>Mike.dodson</i> DSE 3/16/16 TH 3/16/16 CHECKED BY: <i>Mike.dodson</i> 3/16/16 MAD 3/16/16 DATE	
		DIR OF ENG DATE PROJ. ENGR DATE PRINTED BY: <i>Mike.dodson</i> PORT ADDRESS: ONE SICTURE WAY TACOMA, WA 98421-2300	
SHEET 4 OF 36		DEMOLITION PHOTOGRAPHS SHEET 1 TOWNSHIP: 21N RANGE: 03E SECTION: 34 MLW 19.39' @ TIDE 22.1933 DAT-HRZ: NAD83 (2007) VERT: TACOMA, WA 98421-2300	
CONT/CONS: 070160 MASTER ID NO: 091569 PHASE: FOR BID			
NOTE: PHOTOGRAPHS SHOWN REPRESENT AN OVERVIEW OF TYPICAL CONDITIONS TO BE ENCOUNTERED, BUT DO NOT REPRESENT ALL SITUATIONS OR A COMPLETE SET OF CONDITIONS.			
Port of Tacoma P.O. BOX 1887 TACOMA, WA 98440 (206)388-5841 MARK: REVISION: BY: APPR: DATE: 3/16/2016			



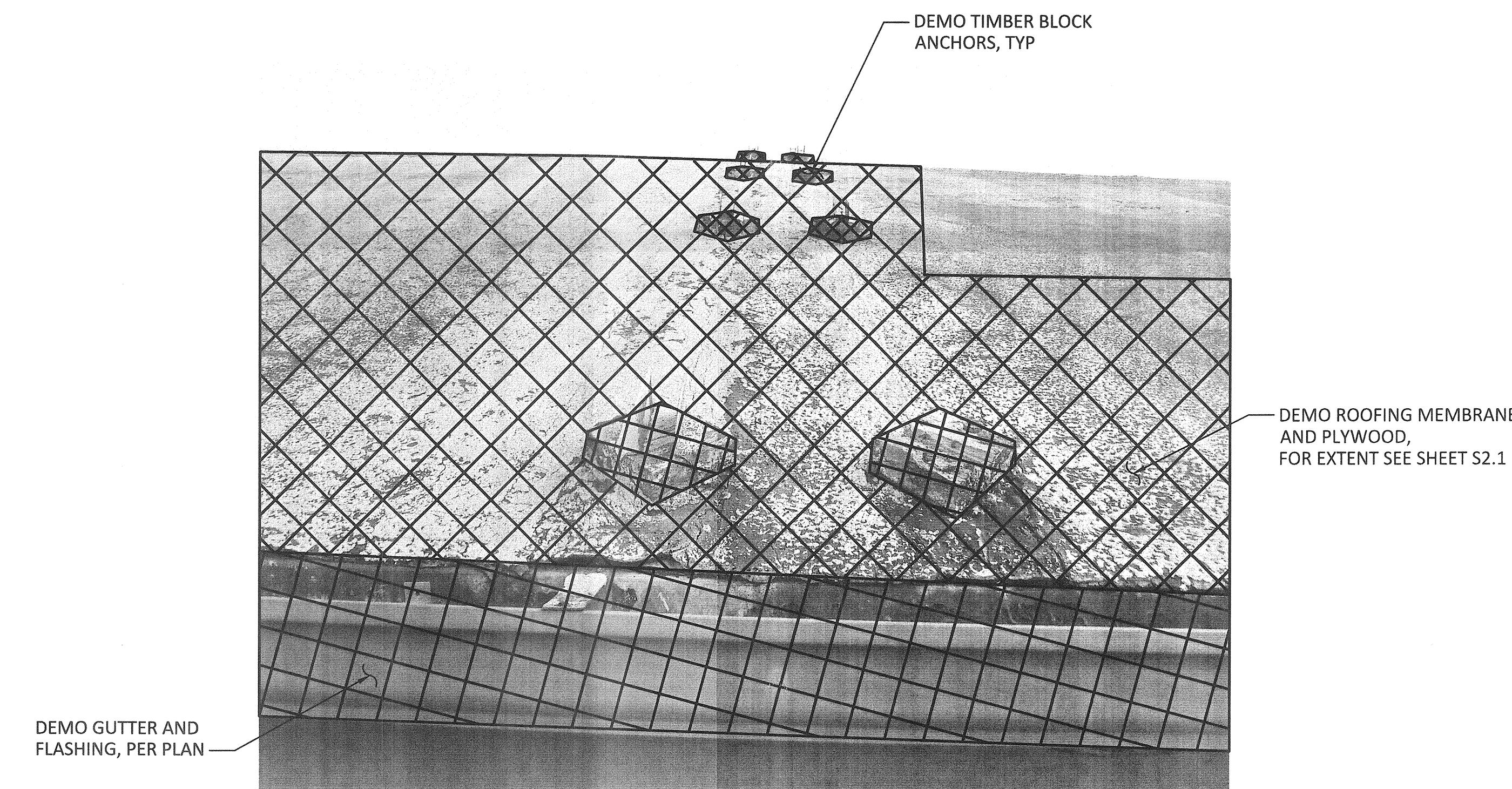
1 IMAGE - TYPICAL HORIZONTAL CHORD MEMBER
SCALE: NTS



2 IMAGE - TYPICAL PURLIN/SHEATHING
SCALE: NTS



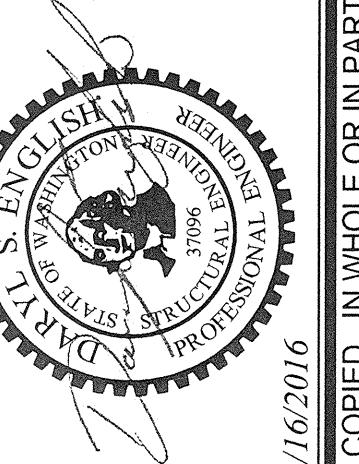
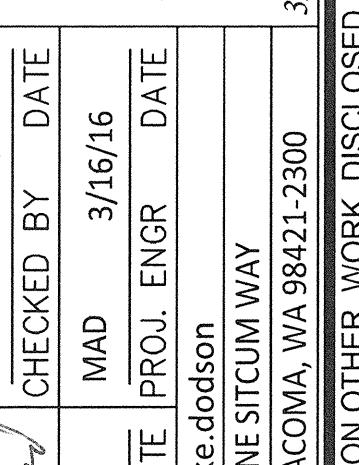
3 IMAGE - WEST ROOF (LOOKING NORTH)
SCALE: NTS

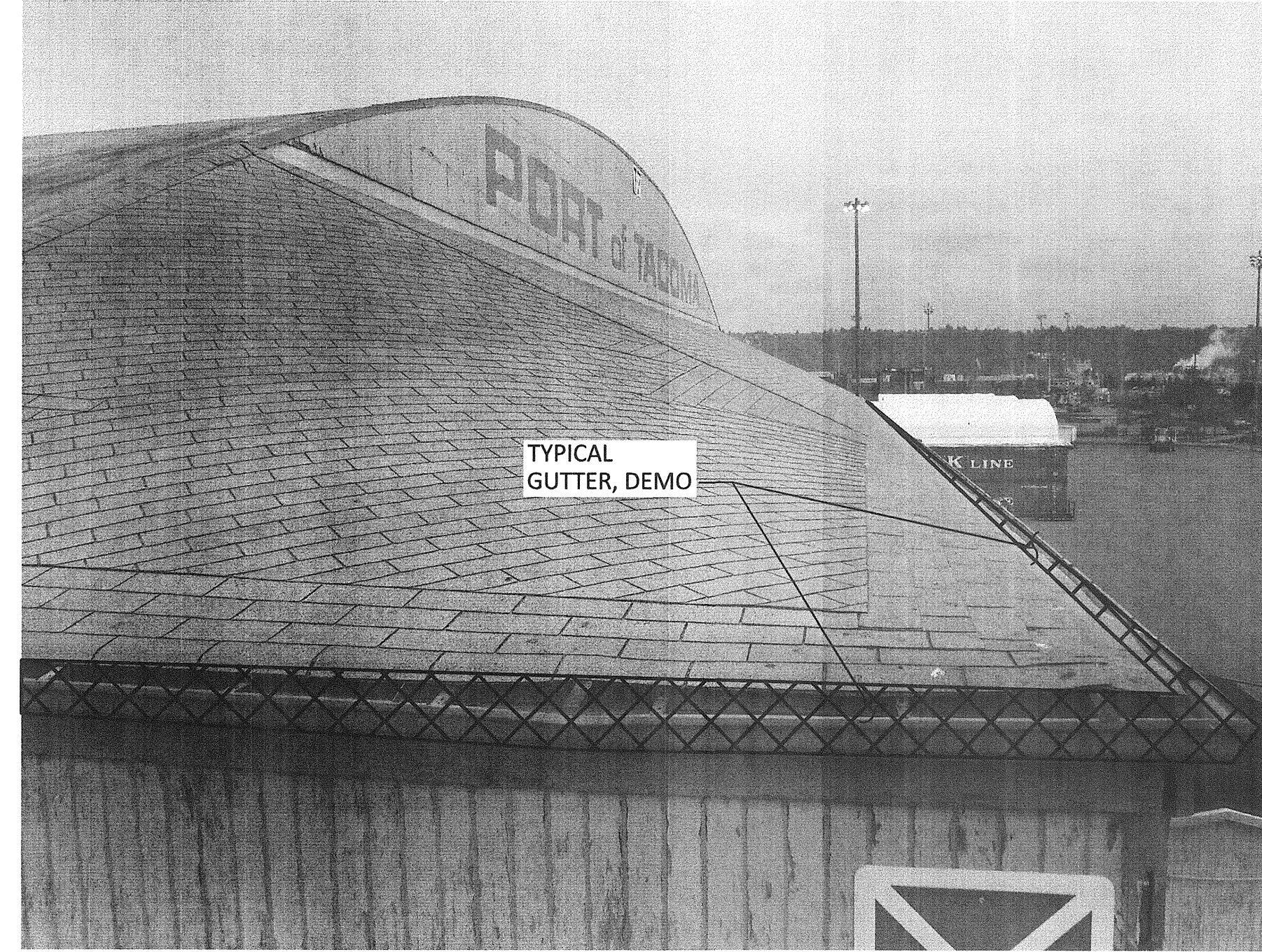


4 IMAGE - WEST ROOF (LOOKING EAST)
SCALE: NTS

NOTE:
PHOTOGRAPHS SHOWN REPRESENT AN
OVERVIEW OF TYPICAL CONDITIONS TO BE
ENCOUNTERED, BUT DO NOT REPRESENT
ALL SITUATIONS OR CONDITIONS.

FOR BID

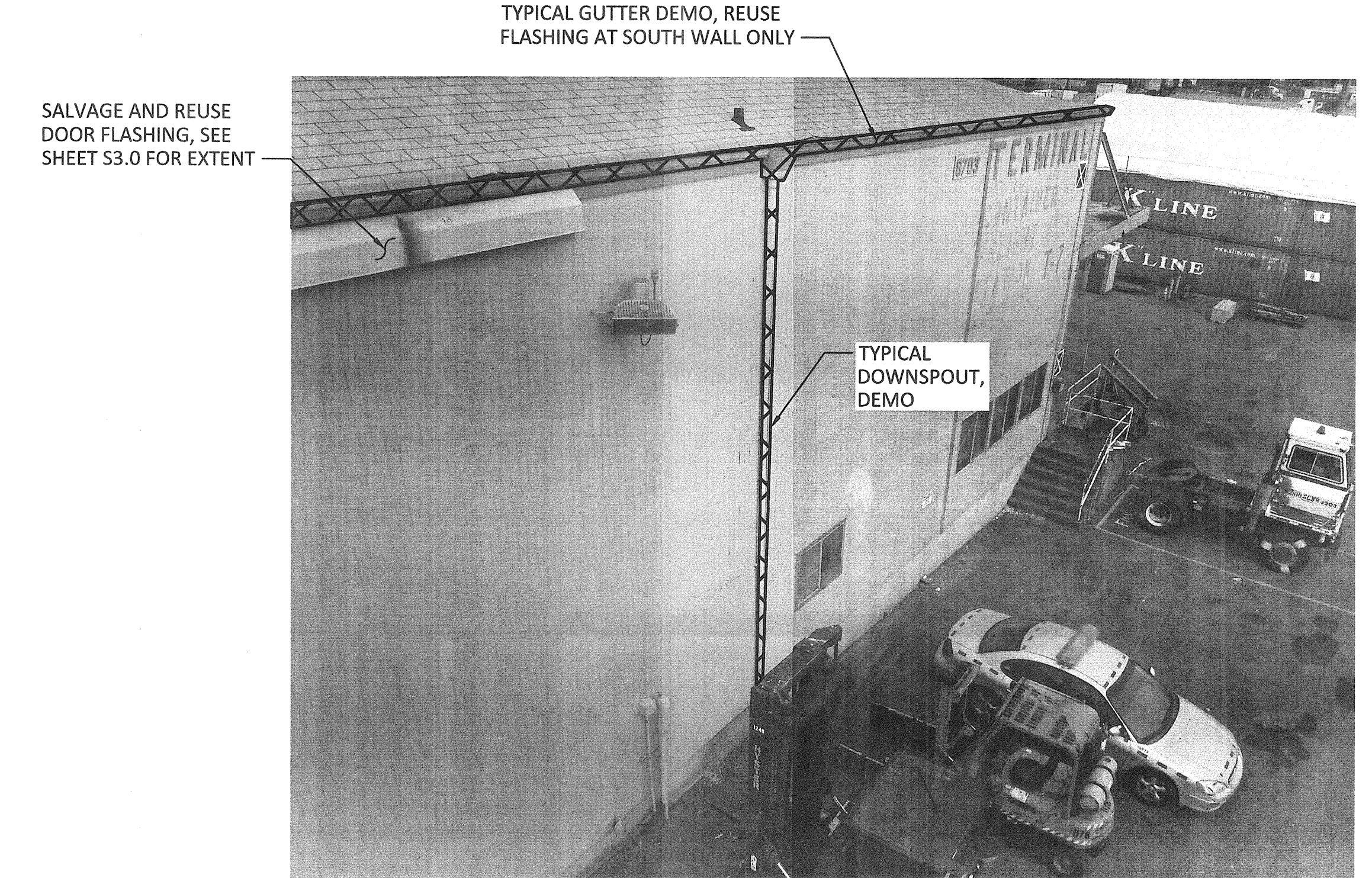
D1.1 6553 TERMINAL 7 WAREHOUSE REHABILITATION		 Port of Tacoma P.O. Box 187 TACOMA, WA 98440-1870 33301 9th Avenue South, Suite 300 Federal Way, Washington 98003-3600 (206) 431-2300 Fax: (206) 431-2250	
DEMOLITION PHOTOGRAPHS SHEET 5 OF 36		 Port of Seattle 700 4th Avenue, Suite 1000 Seattle, Washington 98101 (206) 787-2800 Fax: (206) 787-2800	
CON'T/CONS: 070160 MASTER ID NO: 091569 PHASE: FOR BID	SHEET 2 TOWNSHIP: 21N DAT-HRZ: NAD83 (2007) PARCEL:	APPROVED: <i>[Signature]</i> DSE 3/16/16 CHECKED BY <i>[Signature]</i> MAD 3/16/16 DIR OF ENG DATE PROJ. ENGR DATE PRINTED BY: mike.dodson PORT ADDRESS: ONE STICKUM WAY TACOMA, WA 98421-2300 DRAWING SCALE: AS SHOWN 3/16/2016	APPROVED: <i>[Signature]</i> DSE 3/16/16 CHECKED BY <i>[Signature]</i> MAD 3/16/16 DIR OF ENG DATE PROJ. ENGR DATE PRINTED BY: mike.dodson PORT ADDRESS: ONE STICKUM WAY TACOMA, WA 98421-2300 DRAWING SCALE: AS SHOWN 3/16/2016
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1 IMAGE - WEST ROOF (LOADING EAST)
SCALE: NTS

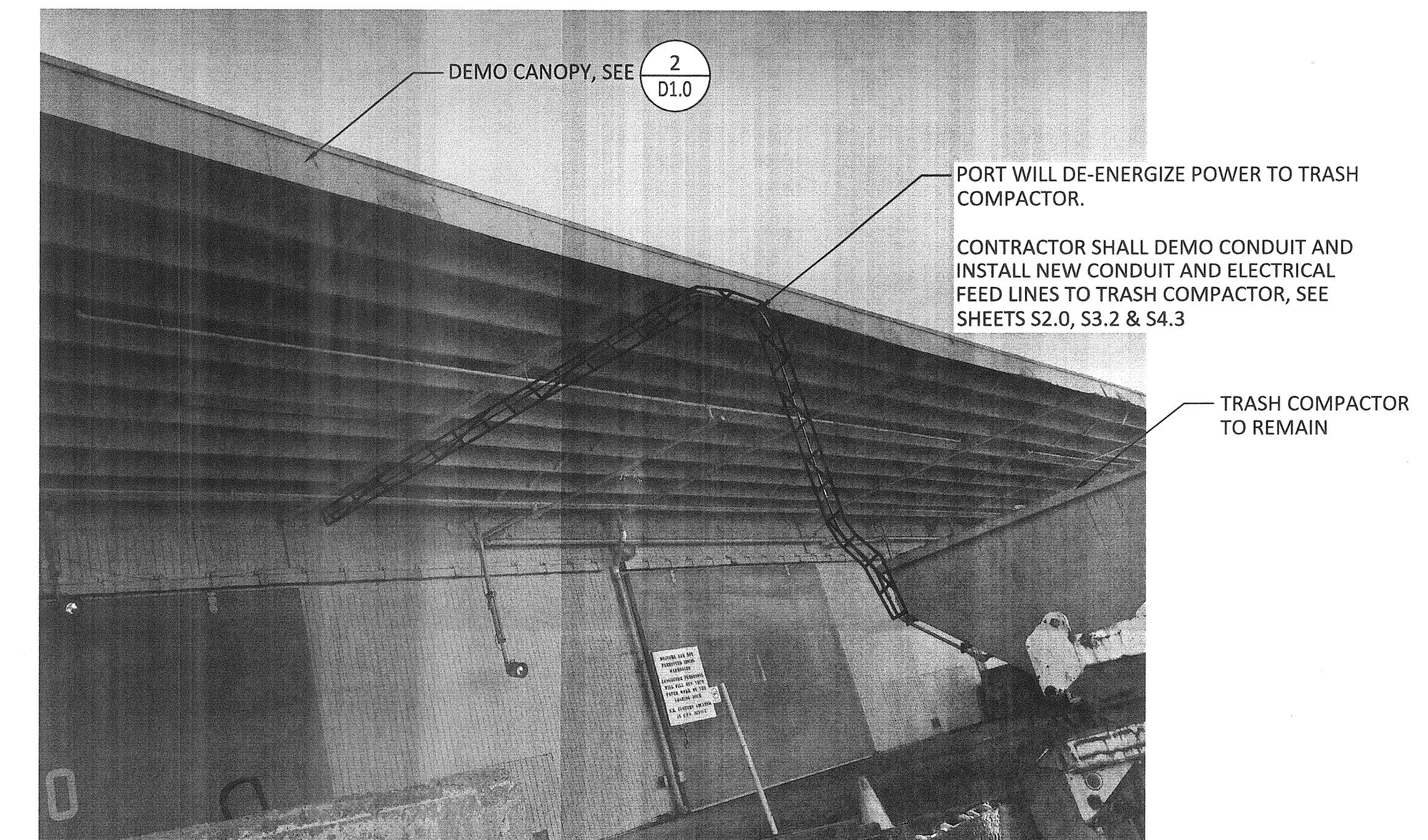


3 IMAGE - NORTH ROOF (LOOKING SOUTHWEST)
SCALE: NTS



2 IMAGE - SOUTH WALL (LOOKING NORTHEAST)
SCALE: NTS

NOTE:
PHOTOGRAPHS SHOWN REPRESENT AN OVERVIEW OF TYPICAL CONDITIONS TO BE ENCOUNTERED, BUT DO NOT REPRESENT ALL SITUATIONS OR CONDITIONS.

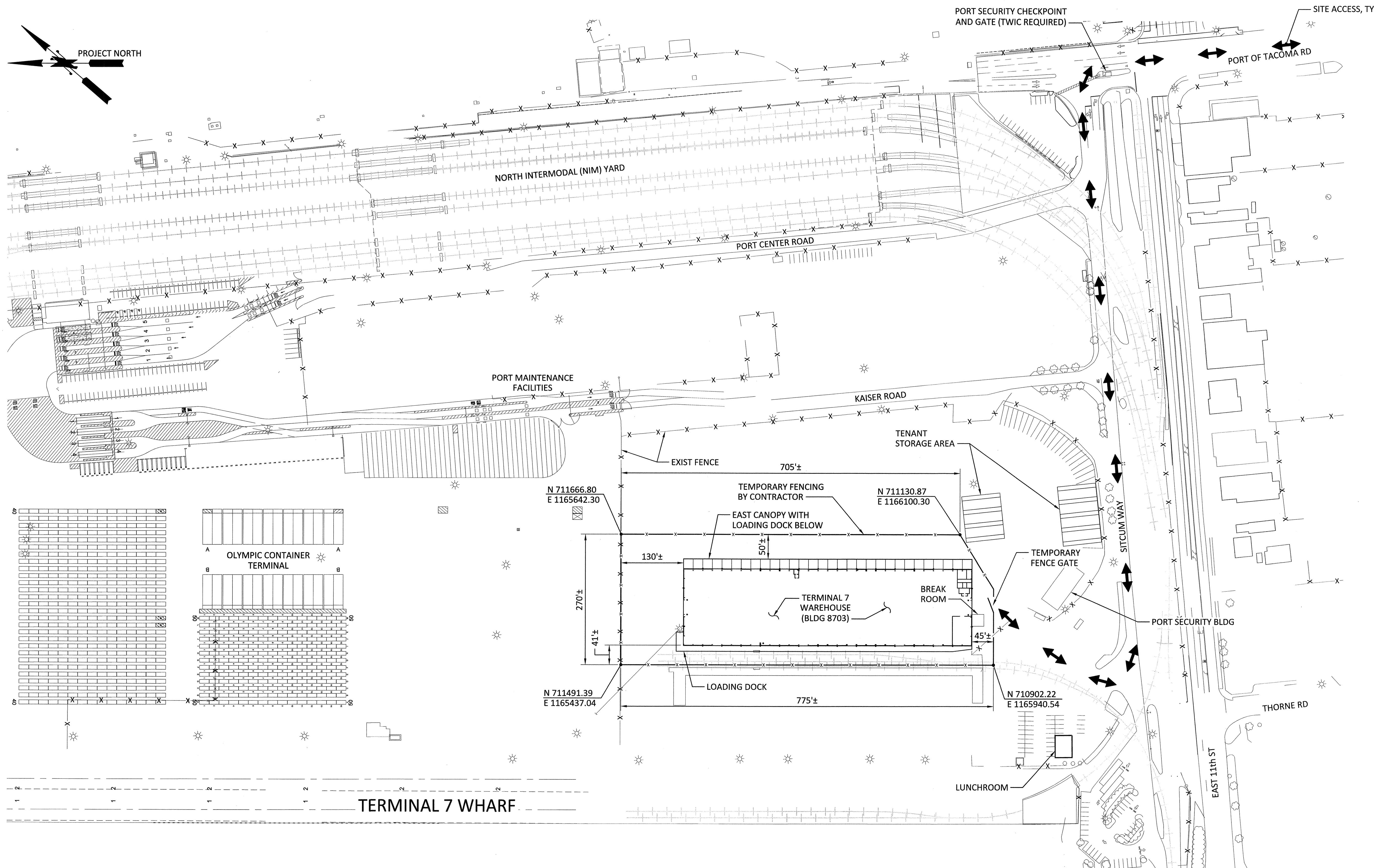


4 IMAGE - EAST WALL COMPACTOR CONDUIT (LOOKING WEST)
SCALE: NTS

6553		D1.2		TERMINAL 7 WAREHOUSE REHABILITATION		APPROVED: <i>Mike.doddson</i>	DSE <i>3/16/16</i>	CHECKED BY	DATE
				DEMOLITION PHOTOGRAPHS		DIR OF ENG <i>3/16/16</i>	MAD <i>3/16/16</i>	PROJ. ENGR	DATE
				SHEET 3	RANGE: 03E	SECTION: 34	PRINTED BY: <i>Mike.doddson</i>		
SHEET 6 OF 36		CONT/CONS: <i>070150</i>	TOWNSHIP: 21N	MLW: 19.35' @ TIDE 22.1933	VERT: <i>NAVD83 (2007)</i>	PARCEL: <i>ONE STICUM WAY</i>			DATE: <i>3/16/2016</i>
		MASTER ID NO: <i>091569</i>	PHASE: <i>FOR BID</i>			DRAWING SCALE: <i>AS SHOWN</i>			
<p>BergerABAM  Port of Tacoma  P.O. BOX 1827 TACOMA, WA 98404-1827 (206) 431-2300 33301 5th Avenue South, Suite 300 Federal Way, Washington 98003-2950 (206) 431-2300 Fax: (206) 431-2500 MARK: <i>2</i> REVISION: <i>2</i> BY: <i>APPR:</i> DATE: <i>3/16/2016</i></p>									

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FOR BID



SITCUM WATERWAY

EBB ← → FLOOD

1
-
SITE ACCESS
SCALE: 1" =100'

1" = 100' scale feet

100 0 100 200

FOR BID

A scale bar at the top shows a 1" length equivalent to 100 feet. Below the scale bar, the text "1\" data-bbox="111 111 886 300" data-label="Text">

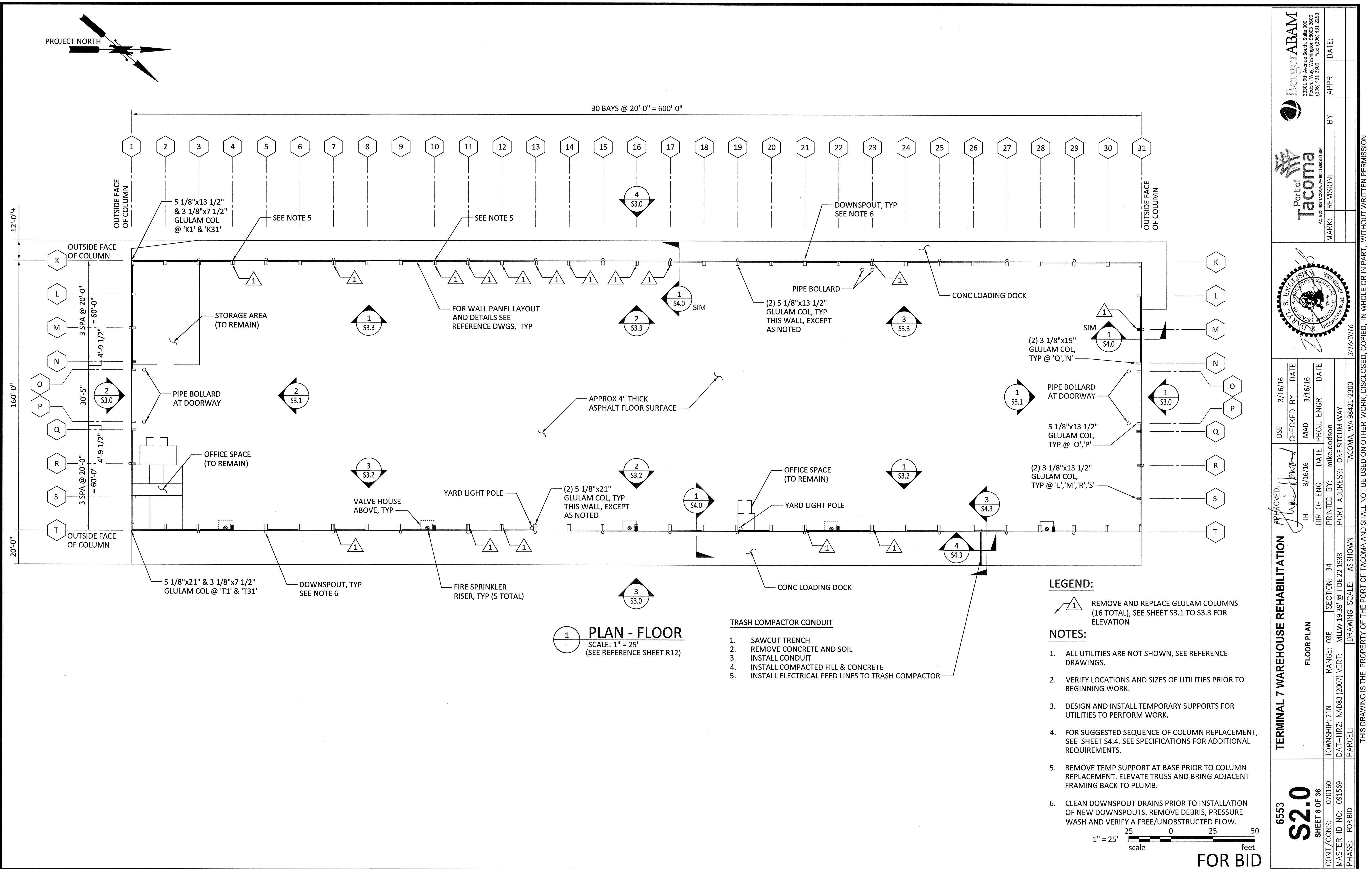
1" = 100' scale feet

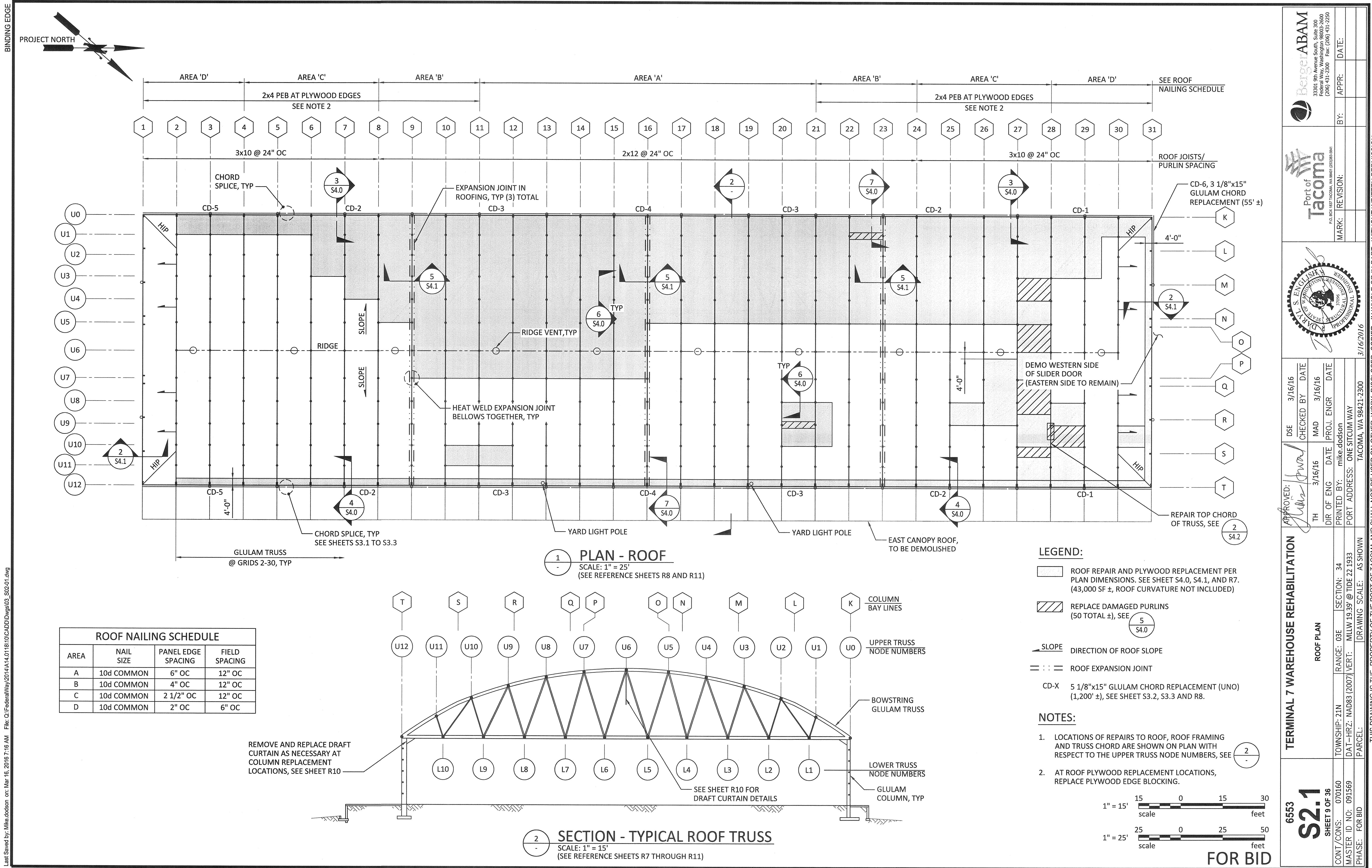
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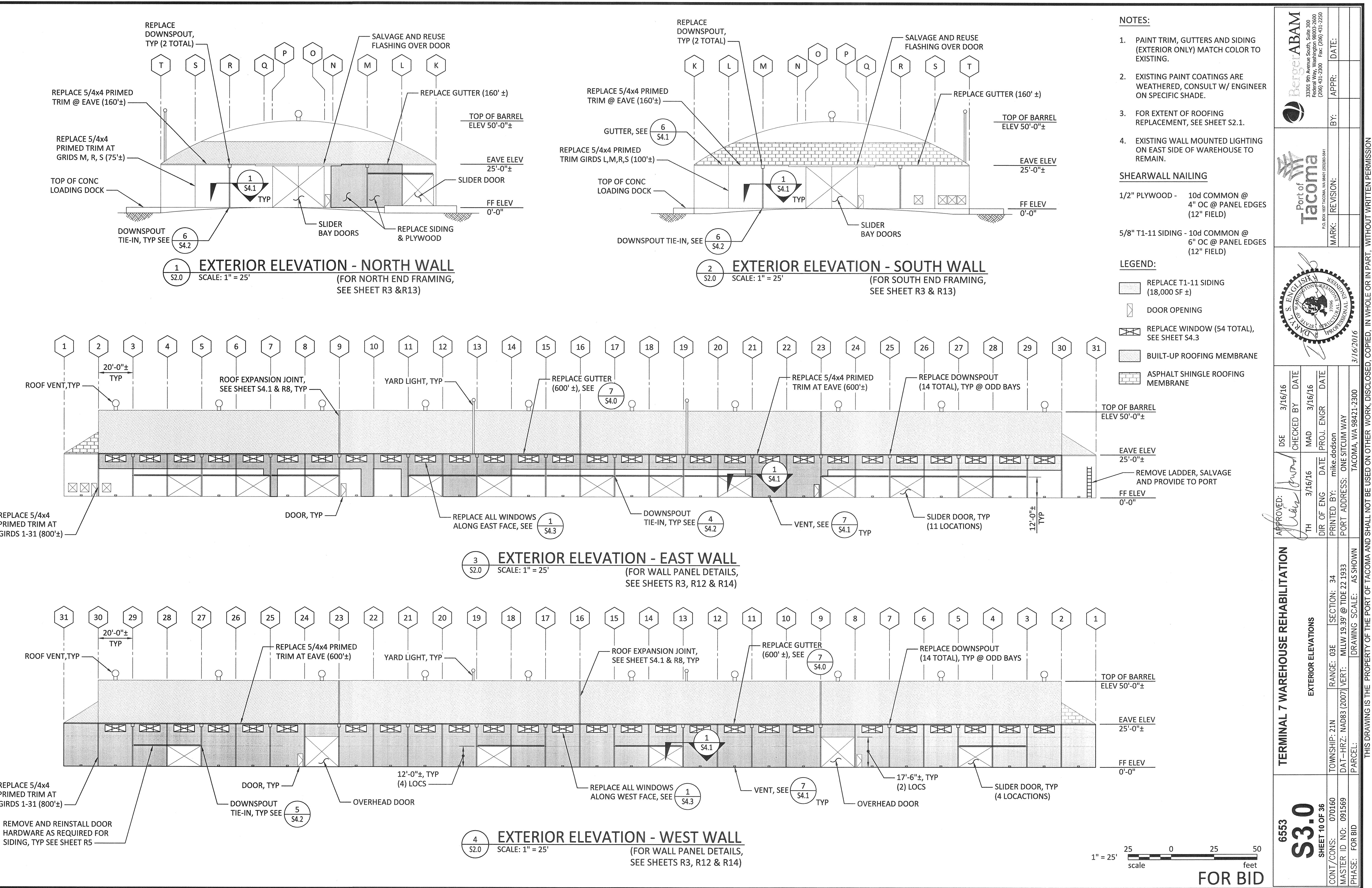
FOR BID

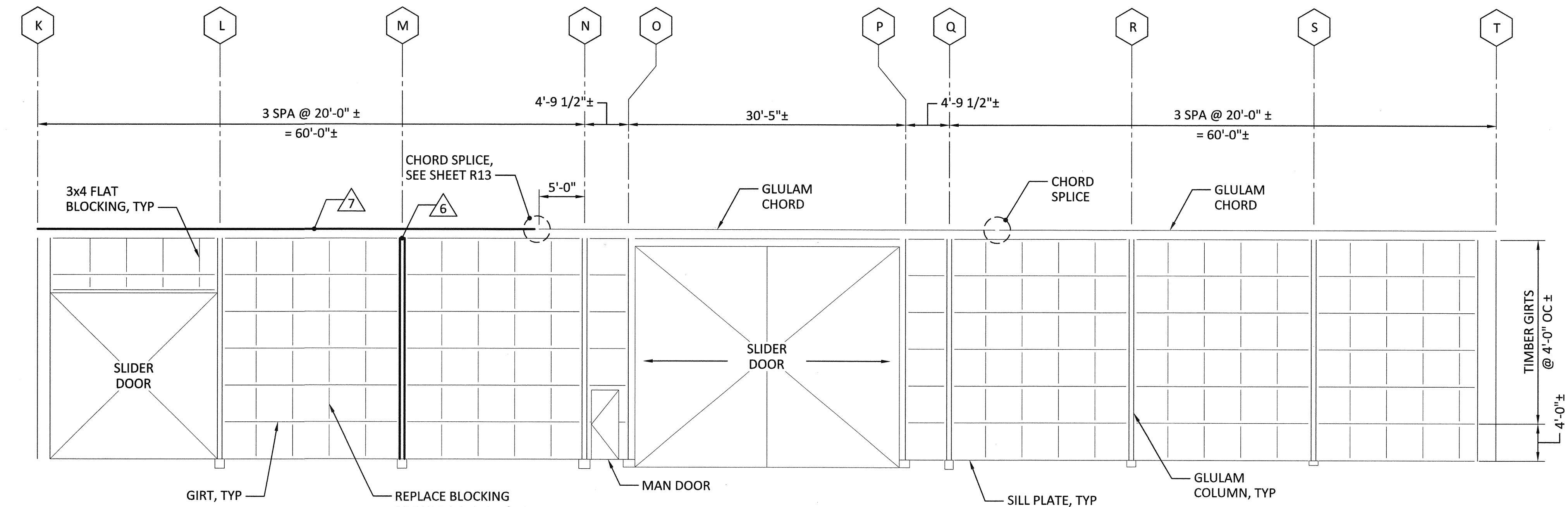
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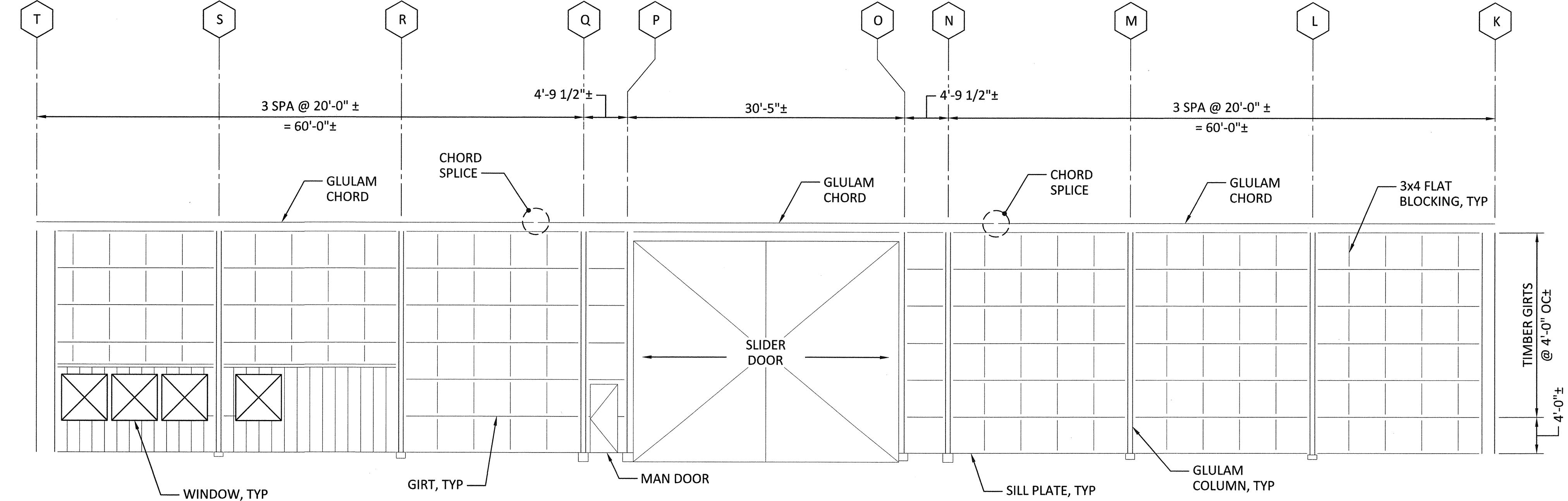






1 S2.0 INTERIOR ELEVATION - NORTH WALL

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



2 S2.0 INTERIOR ELEVATION - SOUTH WALL

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

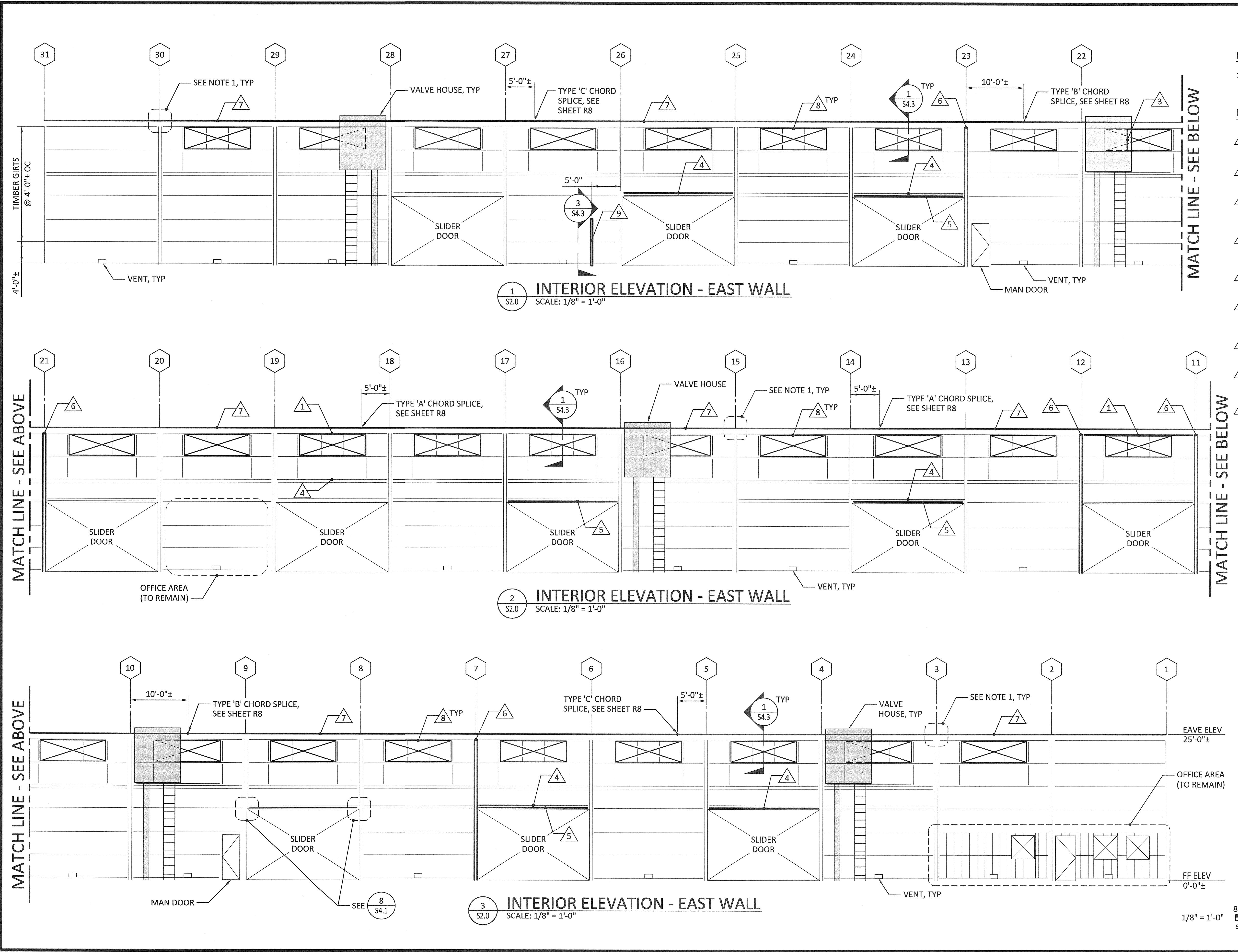
1/8" = 1'-0" 8 0 8 16
scale feet

FOR BID

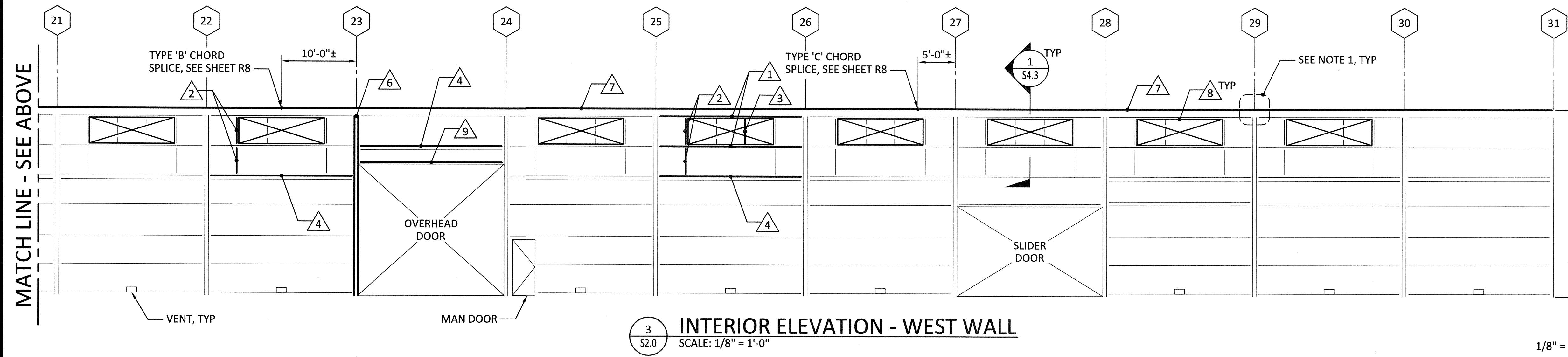
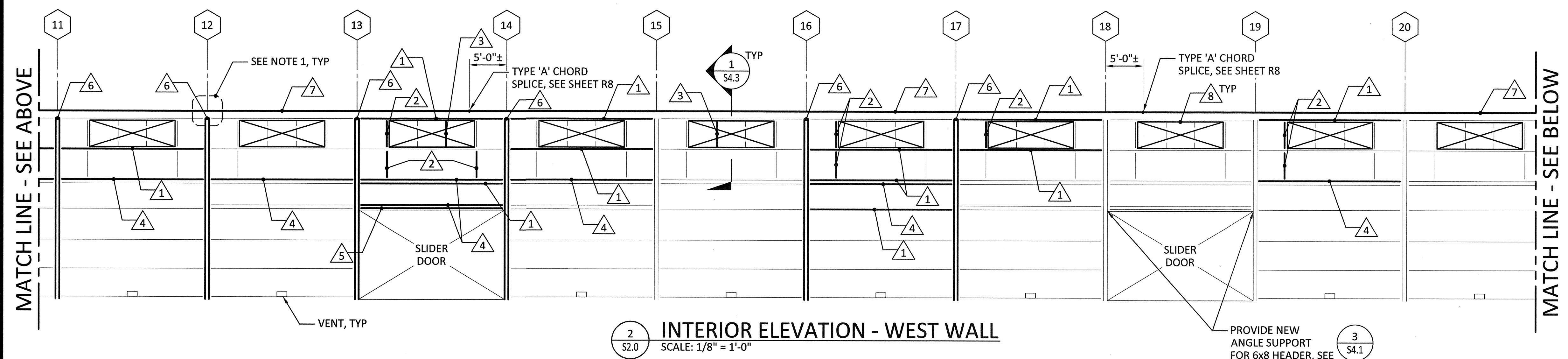
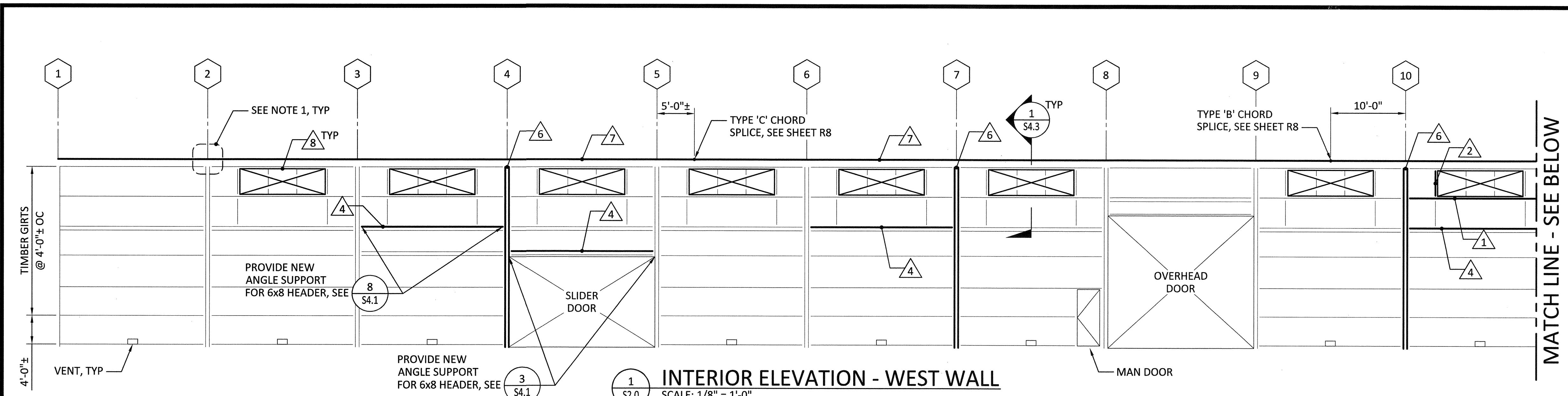
6553		TERMINAL 7 WAREHOUSE REHABILITATION		APPROVED: <i>[Signature]</i>	DSE 3/16/16	CHECKED BY <i>[Signature]</i>	DATE 3/16/16
		ENLARGED INTERIOR ELEVATIONS					
SHEET 11 OF 36		NORTH AND SOUTH		TH 3/16/16	MAD 3/16/16		
CONT/CONS:	070160	TOWNSHIP: 21N	SECTION: 34	DIR OF ENG DATE	PROJ. ENGR	DATE	
MASTER ID NO:	091569	DATE-HRZ: NAD83 (2007)	VERT: MLW 19.39' @ TIDE 22.1933	PRINTED BY: mike.dolson	PORT ADDRESS: ONE SITUCLIM WAY		
PHASE:	FOR BID	DRAWING SCALE: AS SHOWN		TACOMA, WA 98421-2300			

Port of Tacoma
City of Tacoma
State of Washington
U.S. PROFESSIONAL ENGINEERS
P.O. BOX 1874 TACOMA, WA 98441-2841
(253) 592-5841
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6553 S3.2		TERMINAL 7 WAREHOUSE REHABILITATION	
SHEET 12 OF 36		ENLARGED INTERIOR ELEVATIONS	
CONT./CONS.:	070160	TOWNSHIP: 21N	RANGE: 03E
MASTER ID NO.:	091569	DATE-HRZ: NAD83 (2007)	VERT: MLW 19.39' @ TIDE 22.1933
PHASE:	FOR BID	DRAWING SCALE:	AS SHOWN
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Port of Tacoma P.O. BOX 2187, TACOMA, WA 98424-2187 (206) 431-2300 Fax: (206) 431-2500 MARK: REVISION: BY: APPR: DATE:		State of Washington DEPARTMENT OF TRANSPORTATION STRUCTURAL ENGINEERING PROFESSIONAL ENGINEERS 3700 15th Avenue South, Suite 300 Federal Way, Washington 98003-2600 (206) 431-2300 Fax: (206) 431-2500 3/16/2016	
1. FOR CONNECTION OF CHORD TO COLUMN, SEE SHEET R9, AT CORNER CONDITION, SEE SHEET R11 2. REPLACE 4x8 TIMBER WIND GIRT (2 TOTAL), SEE S4.0 3. REPLACE 4x8 VERT MEMBER, SEE S4.2 4. REPLACE 2x12 (6 TOTAL), SEE S4.0 5. REPLACE 6x8 DOOR HEADER (4 TOTAL), SEE S4.1 6. REPLACE COLUMN (5 TOTAL), SEE S4.0 7. REPLACE CHORD (7 TOTAL), SEE S4.0 8. REPLACE WINDOWS, SEE SHEET S4.3 9. INSTALL 2"Ø PVC CONDUIT FOR TRASH COMPACTOR			
APPROVED: <i>[Signature]</i> DSE: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i> DATE: 3/16/16 TH: 3/16/16 MAD: 3/16/16 DIR OF ENG: DATE: PROJ. ENGR: DATE: PRINTED BY: mike.Judson PORT ADDRESS: ONE SICTURE WAY TACOMA, WA 98421-2300			



NOTES:

- FOR CONNECTION OF CHORD TO COLUMN, SEE SHEET R9, AT CORNER CONDITIONS SEE SHEET R11

LEGEND:

- 1 REPLACE 4x8 TIMBER WIND GIRT (14 TOTAL), SEE S4.0
- 2 REPLACE 4x8 VERT MEMBER (13 TOTAL), SEE S4.2
- 3 REPLACE 2x4 VERT MEMBER (3 TOTAL), SEE S4.2
- 4 REPLACE 2x12 (14 TOTAL), SEE S4.0
- 5 REPLACE 6x8 DOOR HEADER (1 TOTAL), SEE S4.1
- 6 REPLACE COLUMN (10 TOTAL), SEE S4.0
- 7 REPLACE CHORD (7 TOTAL), SEE S4.0
- 8 REPLACE WINDOWS, SEE SHEET S4.3
- 9 REPLACE DOOR HEADER (1 TOTAL), SEE S4.1

BergerABAM
Port of Tacoma

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(206) 431-3000 Fax: (206) 431-2550

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3/16/2016

6553 TERMINAL 7 WAREHOUSE REHABILITATION
S3.3

ENLARGED INTERIOR ELEVATIONS

WEST

SECTION: 34

DIR OF ENG: 3/16/16

PRINTED BY: mike.dodson

DATE: 3/16/16

PORT ADDRESS: ONE SITUUM WAY

TACOMA, WA 98421-2300

PARCEL: DRAWING SCALE: AS SHOWN

CON'T/CONS: 070160 TOWNSHIP: 21N RANGE: 03E SECTION: 34

MASTER ID NO: 091569 DATE-HRZ: NAD83 (2007) VERT: MLW 19.39' @ TIDE 22.1933

PHASE: FOR BID

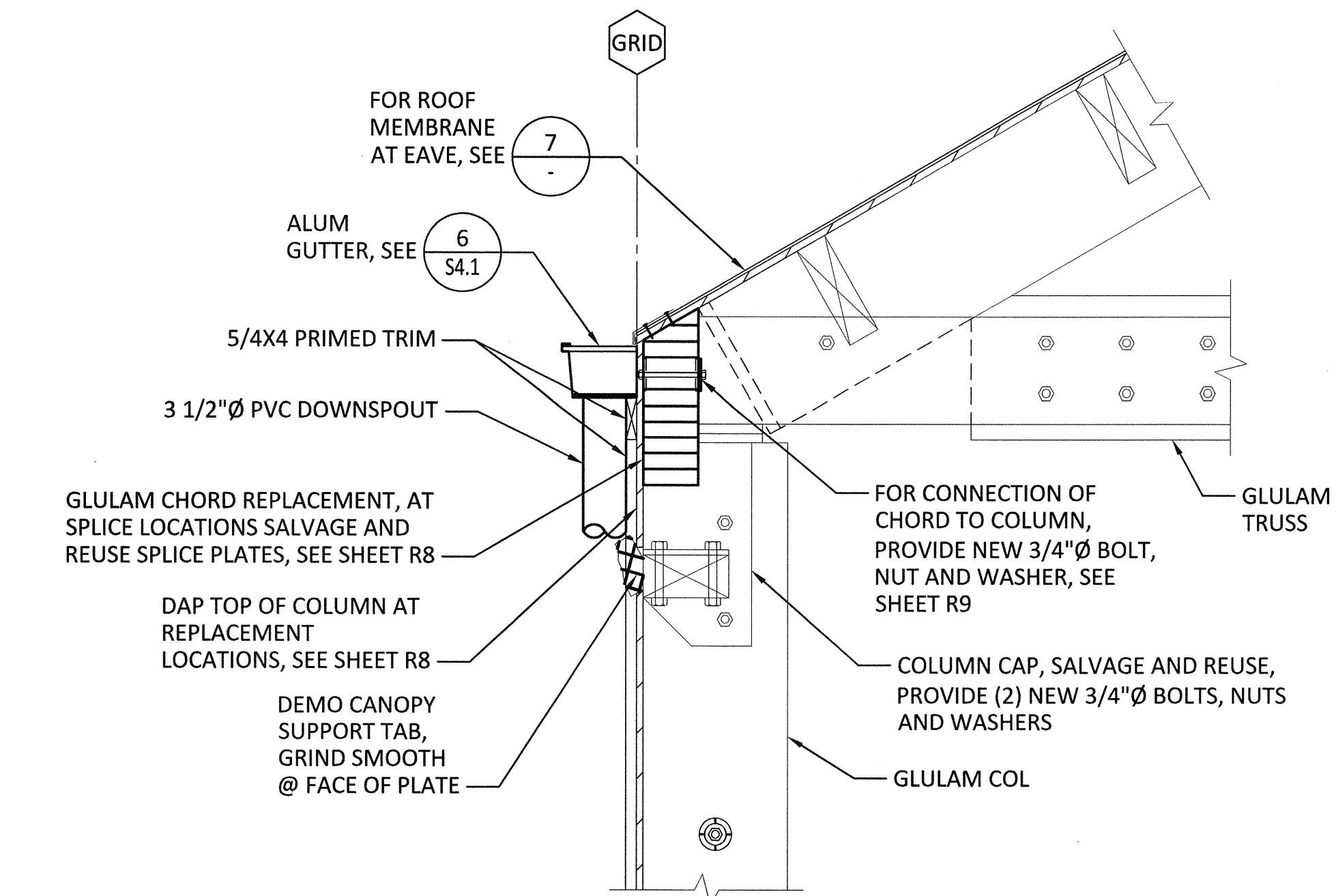
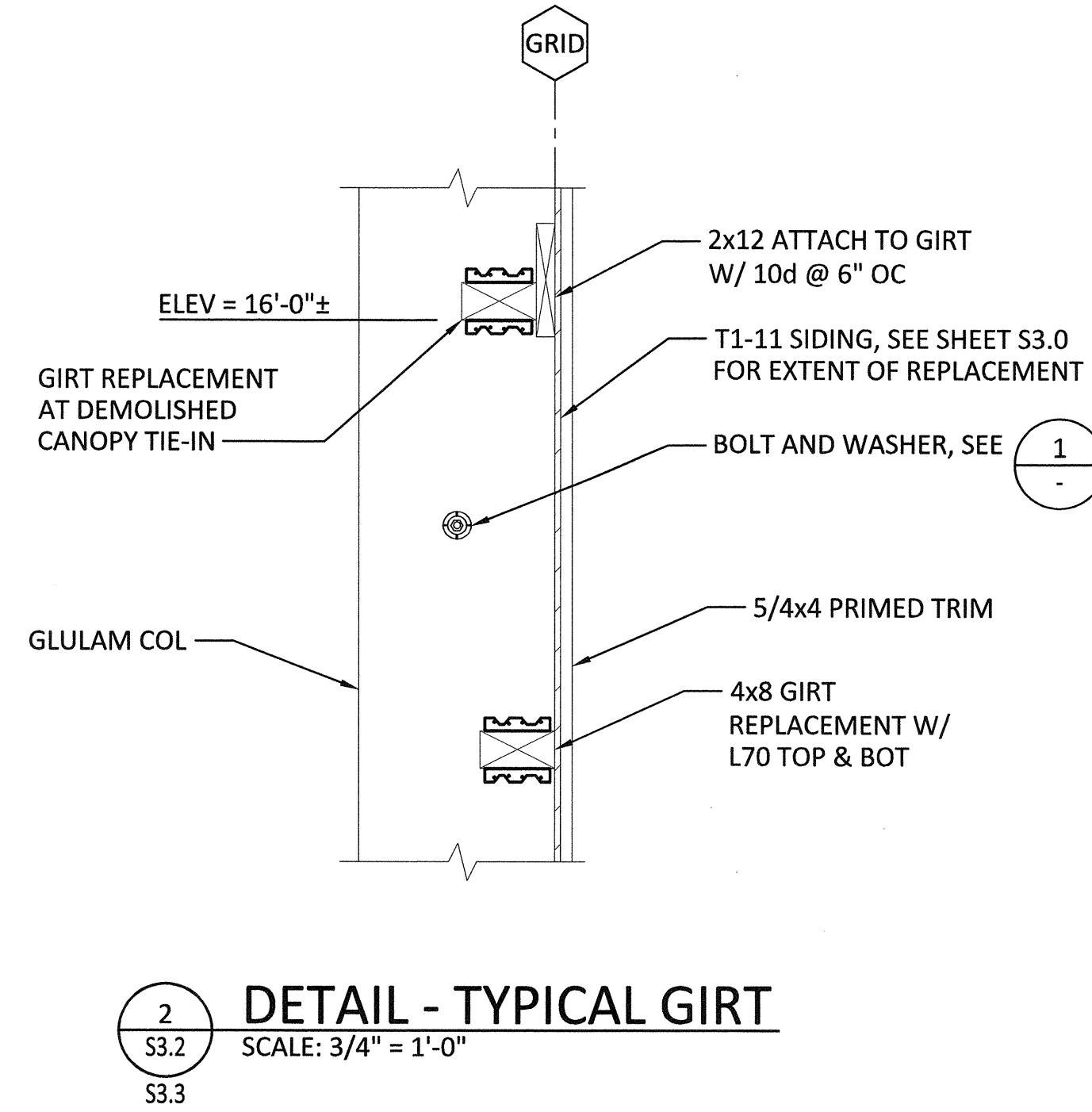
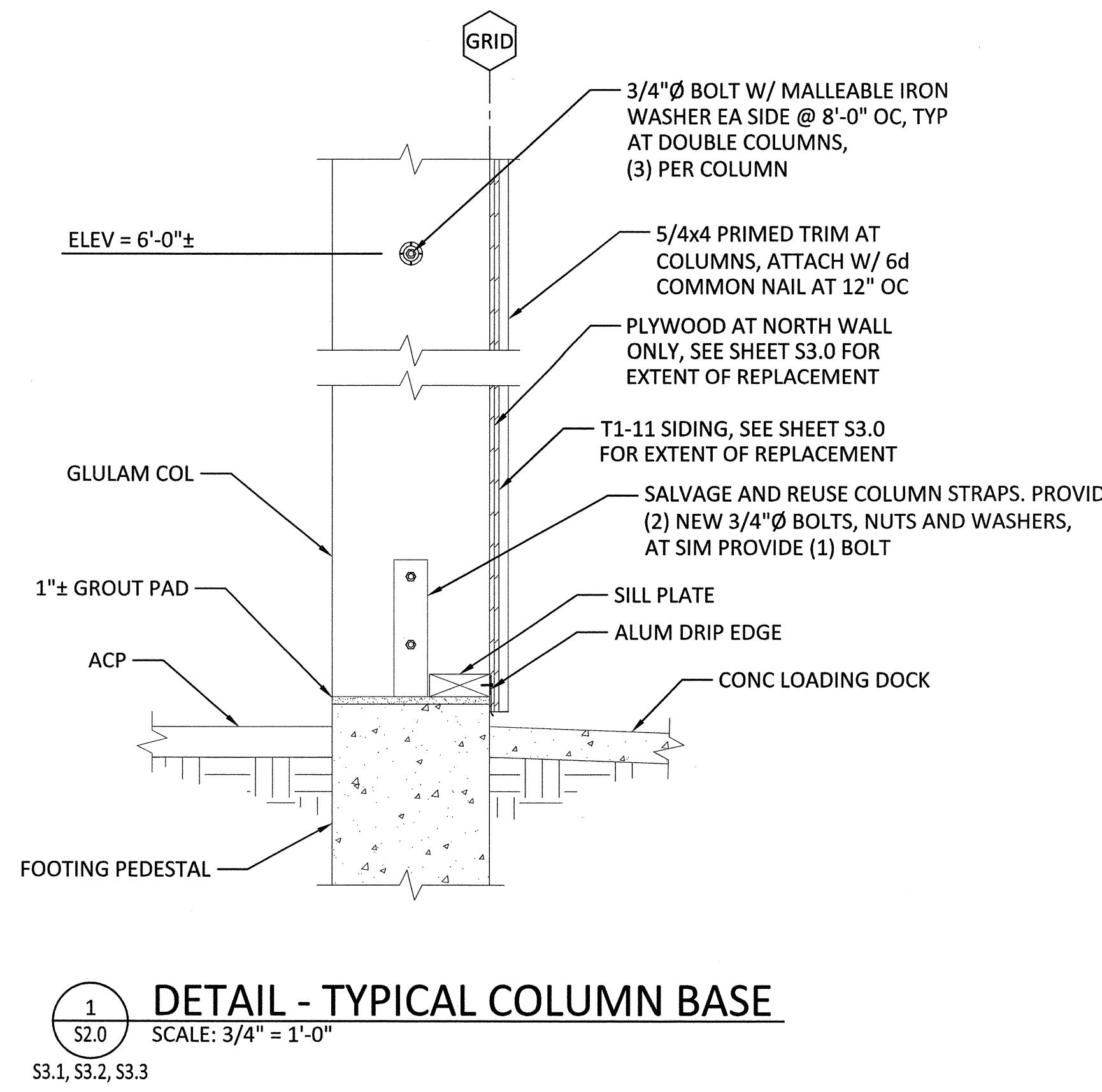
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1/8" = 1'-0"

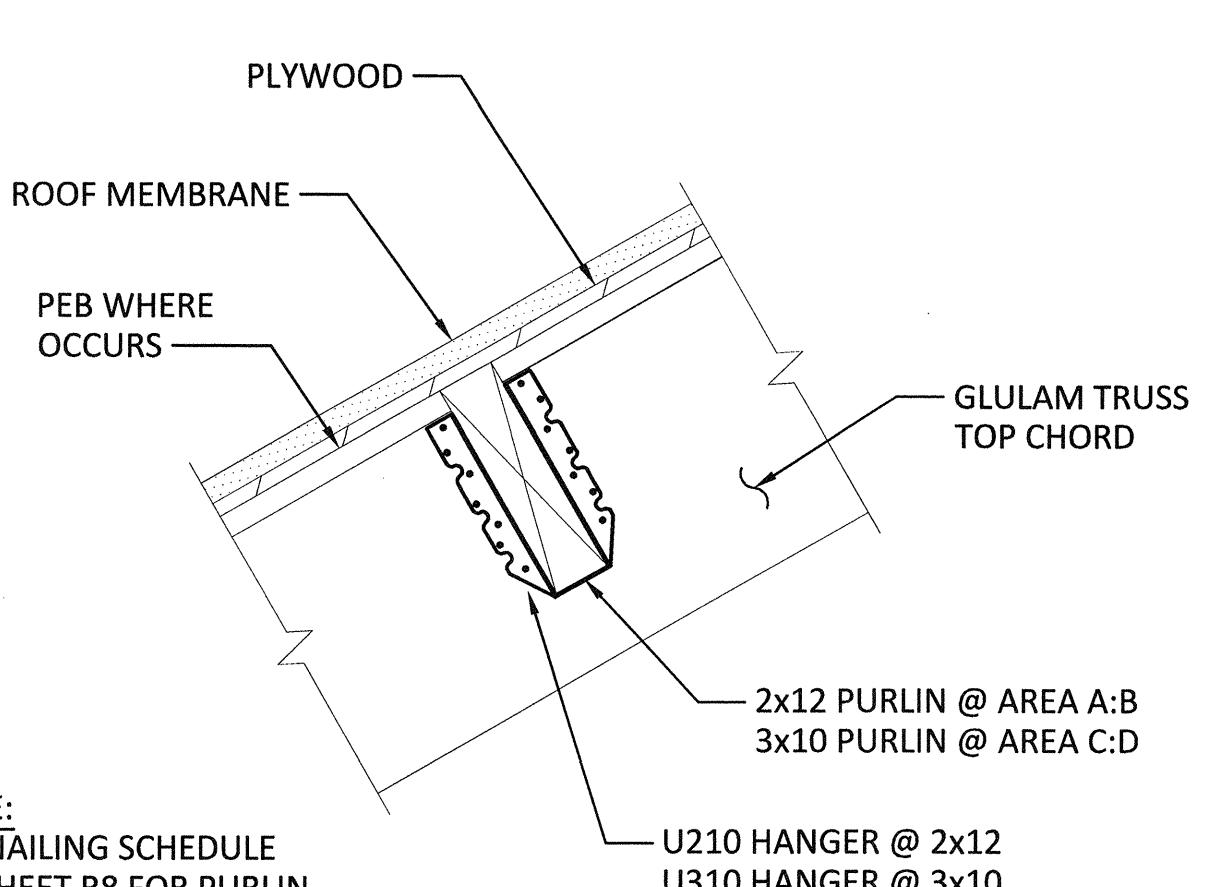
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feet

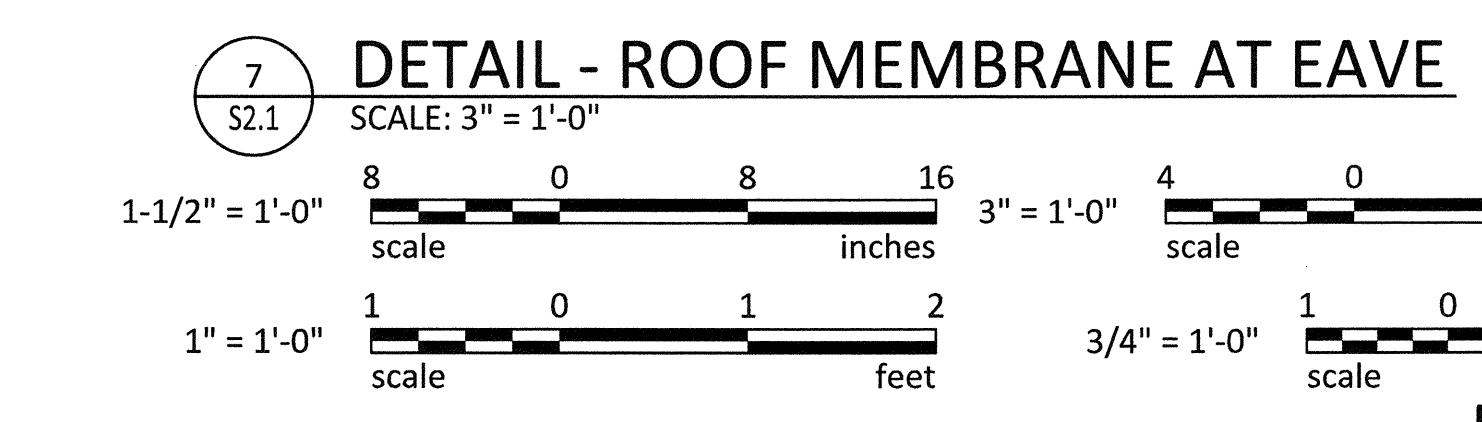
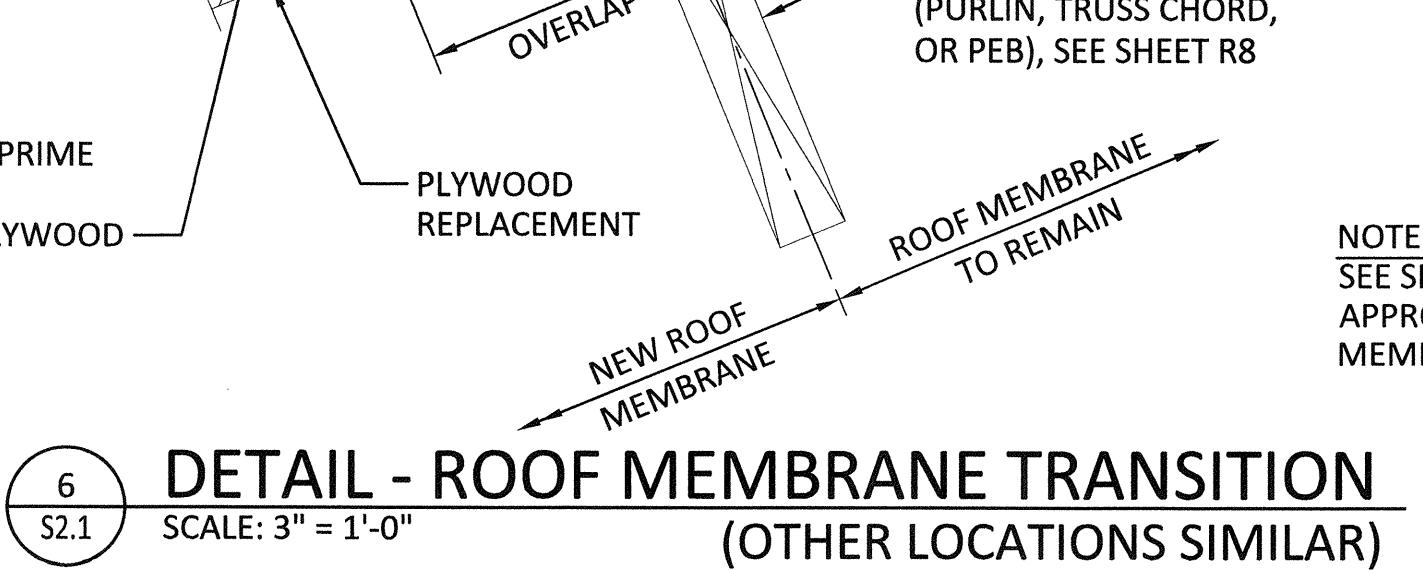
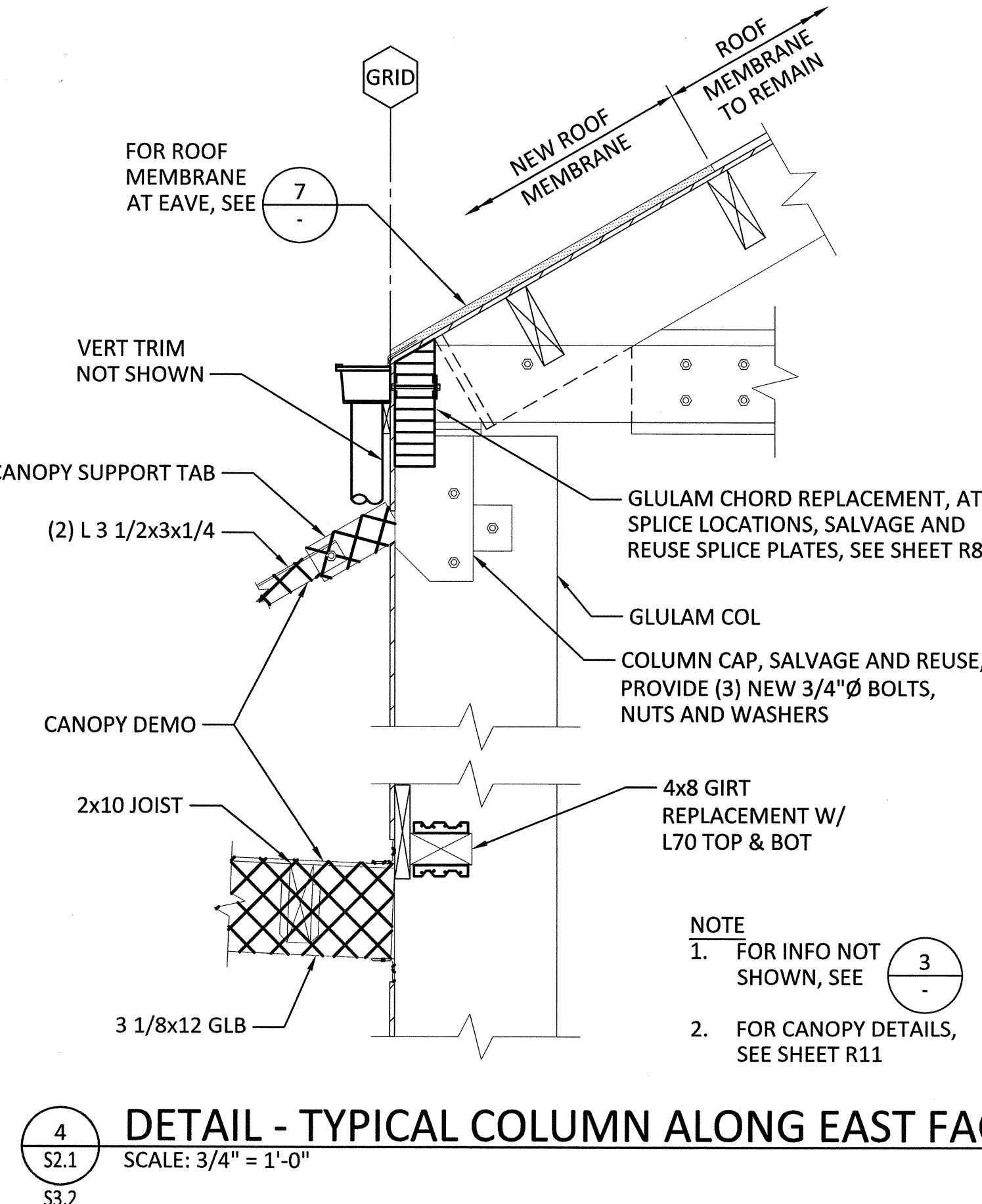
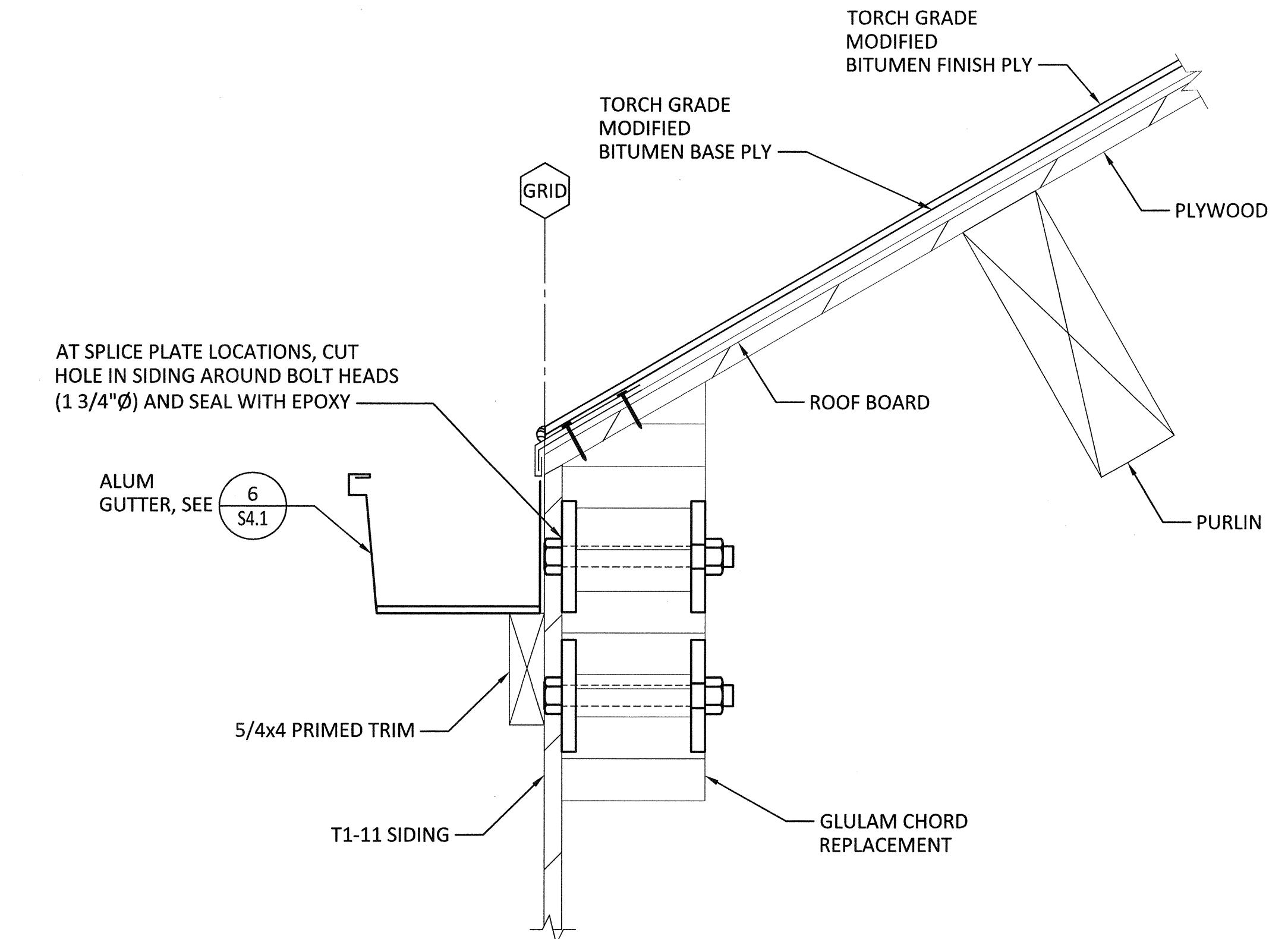
FOR BID



DETAIL - TYPICAL COLUMN BASE
(S2.0) SCALE: 3/4" = 1'-0"
S3.1, S3.2, S3.3



DETAIL - TYPICAL PURFLIN REPLACEMENT
(S2.1) SCALE: 1 1/2" = 1'-0"



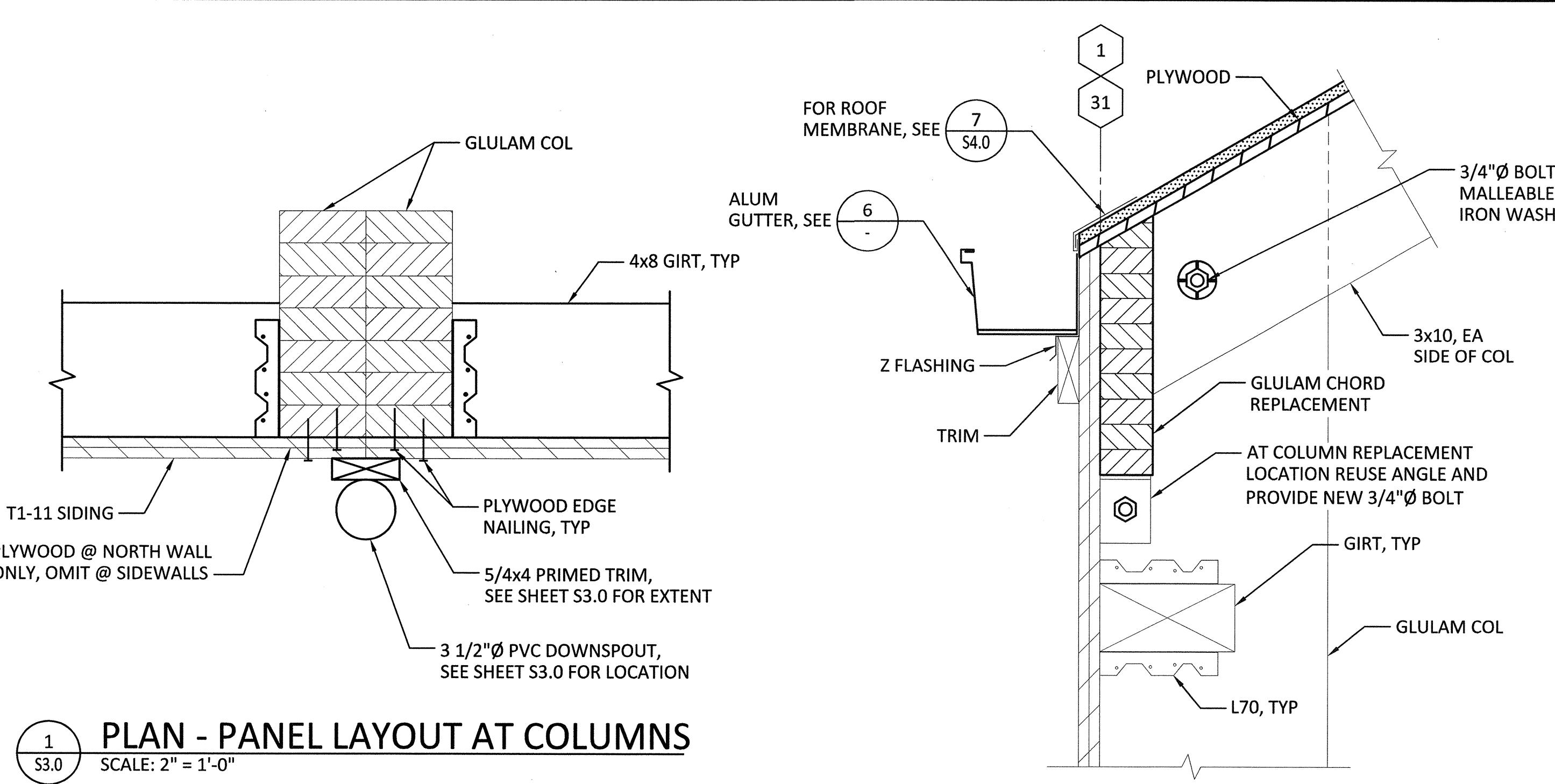
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6553		S4.0		DETAILS		SHEET 1		DETAILS		SHEET 14 OF 36		TERMINAL 7 WAREHOUSE REHABILITATION	
CONT/CONS: 070160		TOWNSHIP: 21N		RANGE: 03E		SECTION: 34		DIR OF ENG		DIR OF ENG		APPROVED: <i>Mike Jd</i> 3/16/16	
MASTER ID NO: 091569		DAT-HRZ: NAD83 (2007)		VERT: MLW/19.39' @ TIDE 22.1933				PRINTED BY: <i>mikedj</i>		PROD. ENGR		CHECKED BY: <i>Mike Jd</i> 3/16/16	
PHASE: FOR BID								PORT ADDRESS: ONE SHUTTLE WAY				DATE: 3/16/2016	
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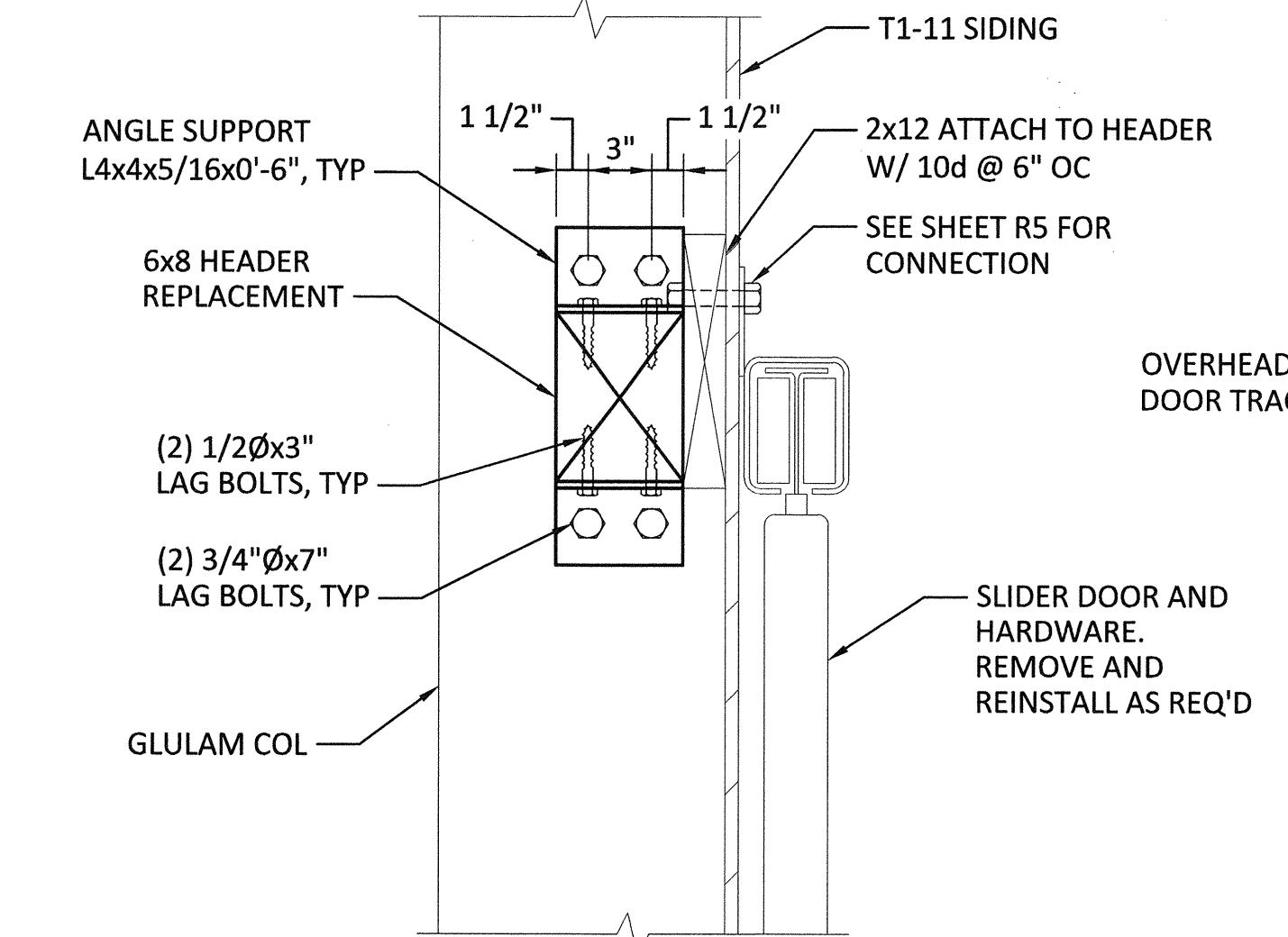
Port of Tacoma
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3301 5th Avenue South, Suite 300
Federal Way, Washington 98003-2800
(206) 431-2300 Fax: (206) 431-2520

MARK: *REVISION:* *APPR:* *DATE:*

1. U.S. ENGINEERING
2. 37006
3. PROFESSIONAL ENGINEER
4. 37006
5. PROFESSIONAL ENGINEER
6. 37006
7. PROFESSIONAL ENGINEER



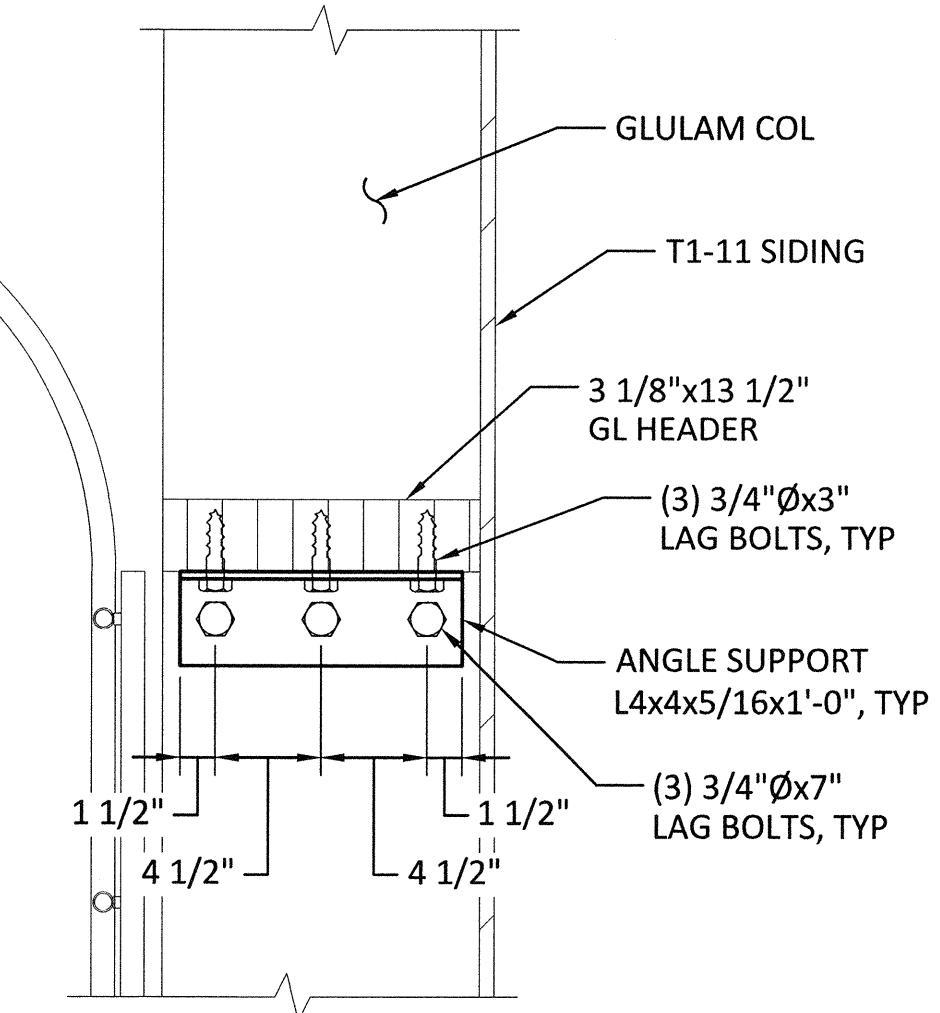
1
S3.0 PLAN - PANEL LAYOUT AT COLUMNS
SCALE: 2" = 1'-0"



3
S3.2
S3.3

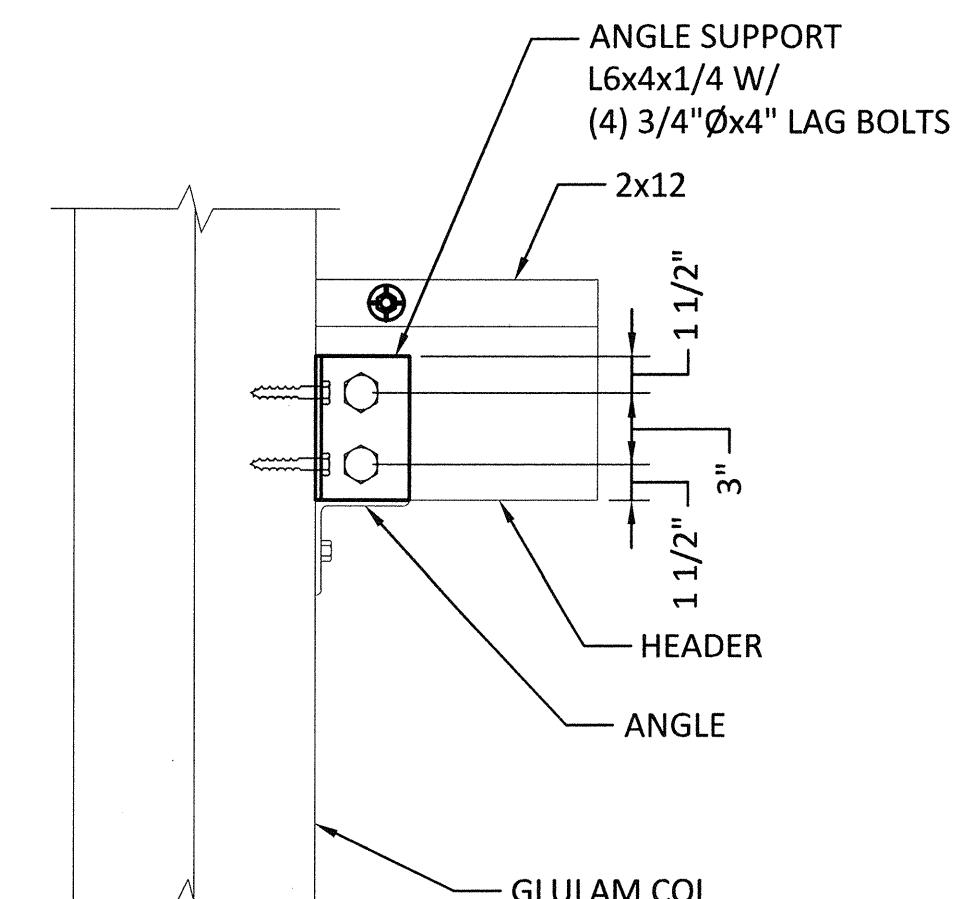
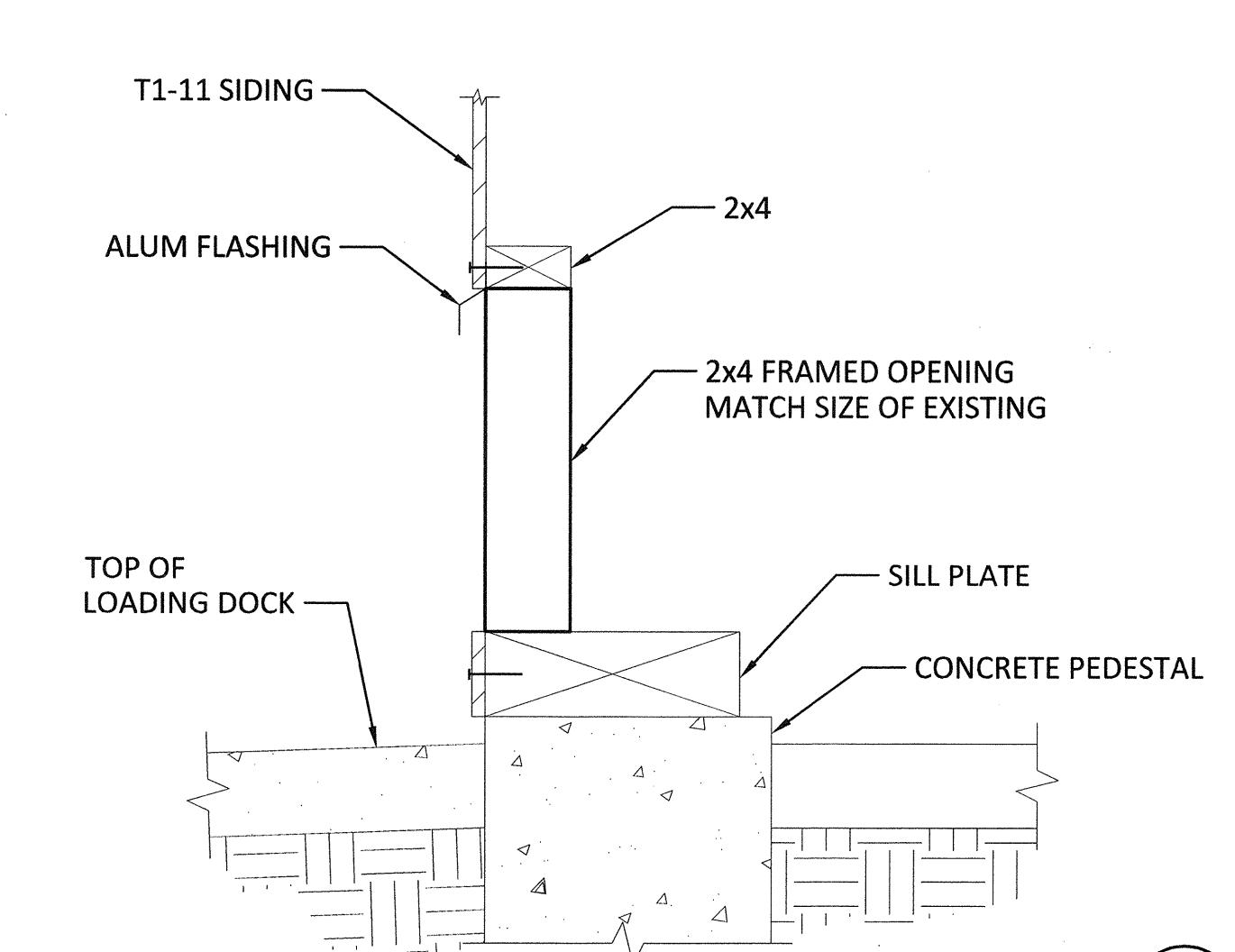
DETAIL - TYPICAL HEADER AT (SLIDING DOOR)

SCALE: 1 1/2" = 1'-0"



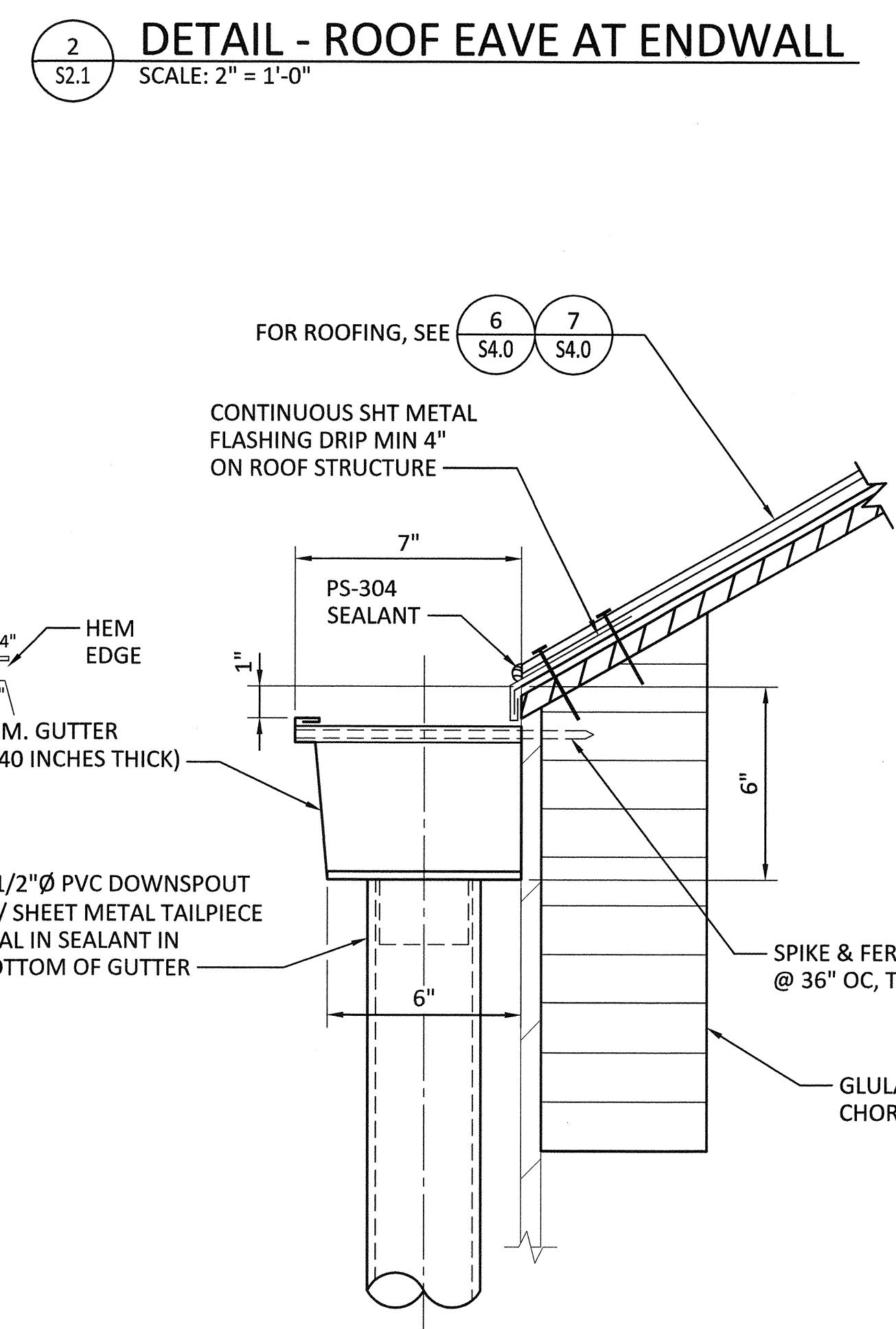
4
S3.3

DETAIL - TYPICAL HEADER AT SCALE: 1 1/2" = 1'-0" (OVERHEAD DOOR)

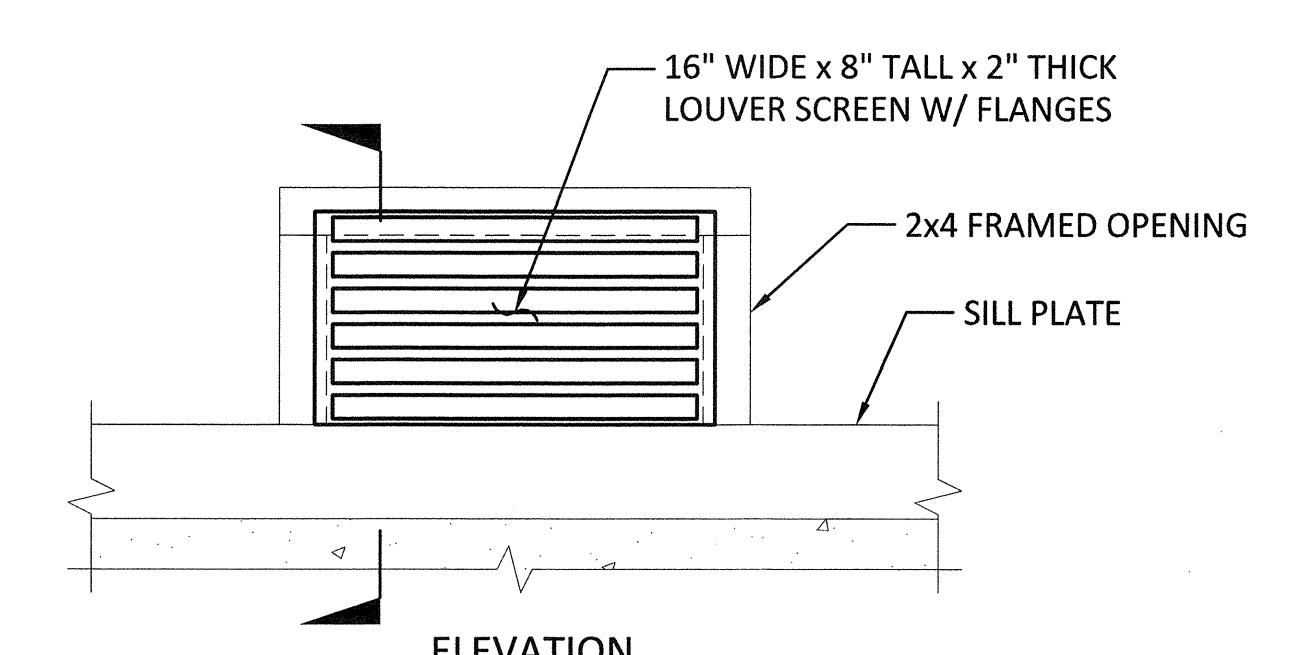


The diagram illustrates a cross-section of a roof expansion joint. It shows a vertical expansion joint in the center. On the left, a 'NEW HOOD 4x6 CANT STRIP AT EXPANSION JOINT' is shown. The roof deck consists of '1/4" DENSDECK ROOF BOARD' and 'PLYWOOD'. The roof membrane is 'EXIST ROOF MEMBRANE' with 'FLASHING ROOF MEMBRANE TYPICAL AT EACH SIDE OF EXPANSION JOINT'. The top of the expansion joint is covered with 'EXPAND O-FLASH (STYLE EJ) ELASTOMER BELLOWS W/ CLOSED CELL FOAM BACKER AND INTEGRAL 4" WIDE ALUM FLANGE TYPICAL. PATCH INTO EXISTING AT END'. A callout at the bottom right specifies '2" JOINT WIDTH-FIELD VERIFY CONDITION, ADJUST EXPAND O-FLASH TO MATCH JOINT WIDTH'.

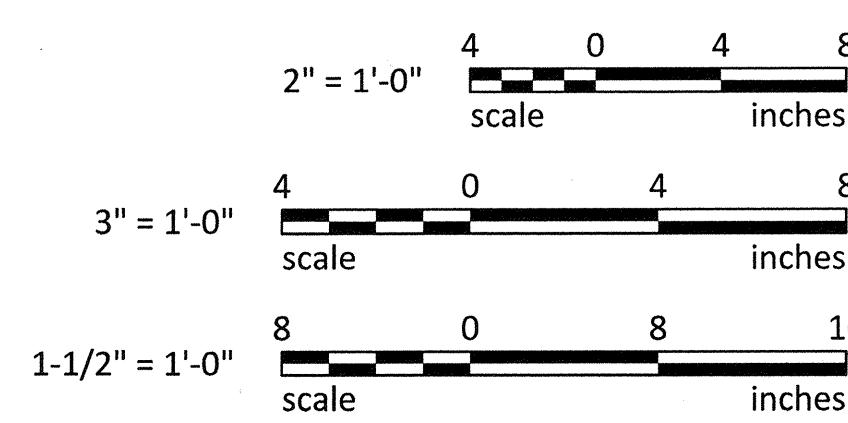
5
S2.1 DETAIL - EXPANSION JOINT/FLASHING
SCALE: 3" = 1'-0"



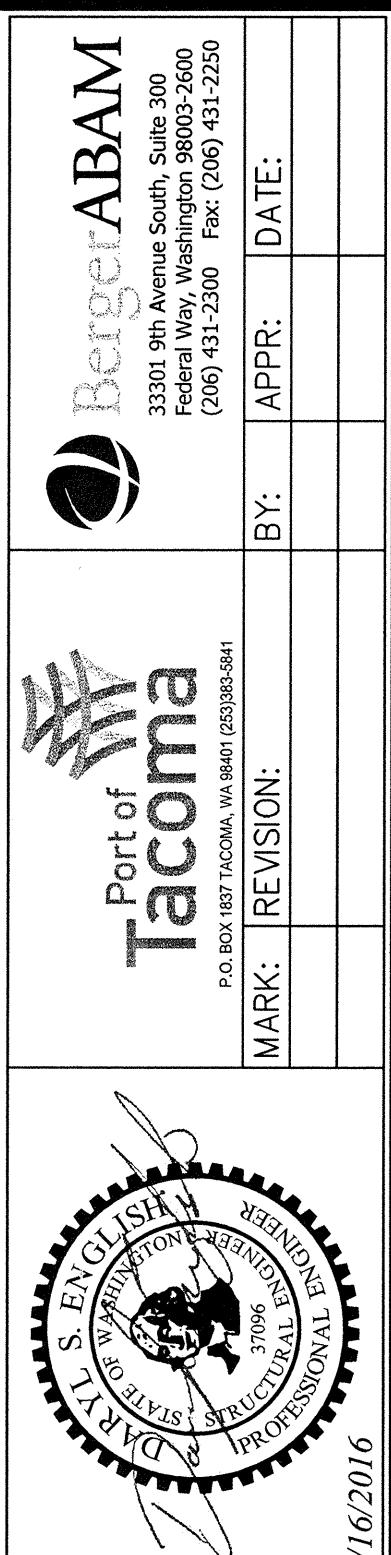
6
S3.0 **DETAIL - GUTTER AT EAVE**
SCALE: 3" = 1'-0"



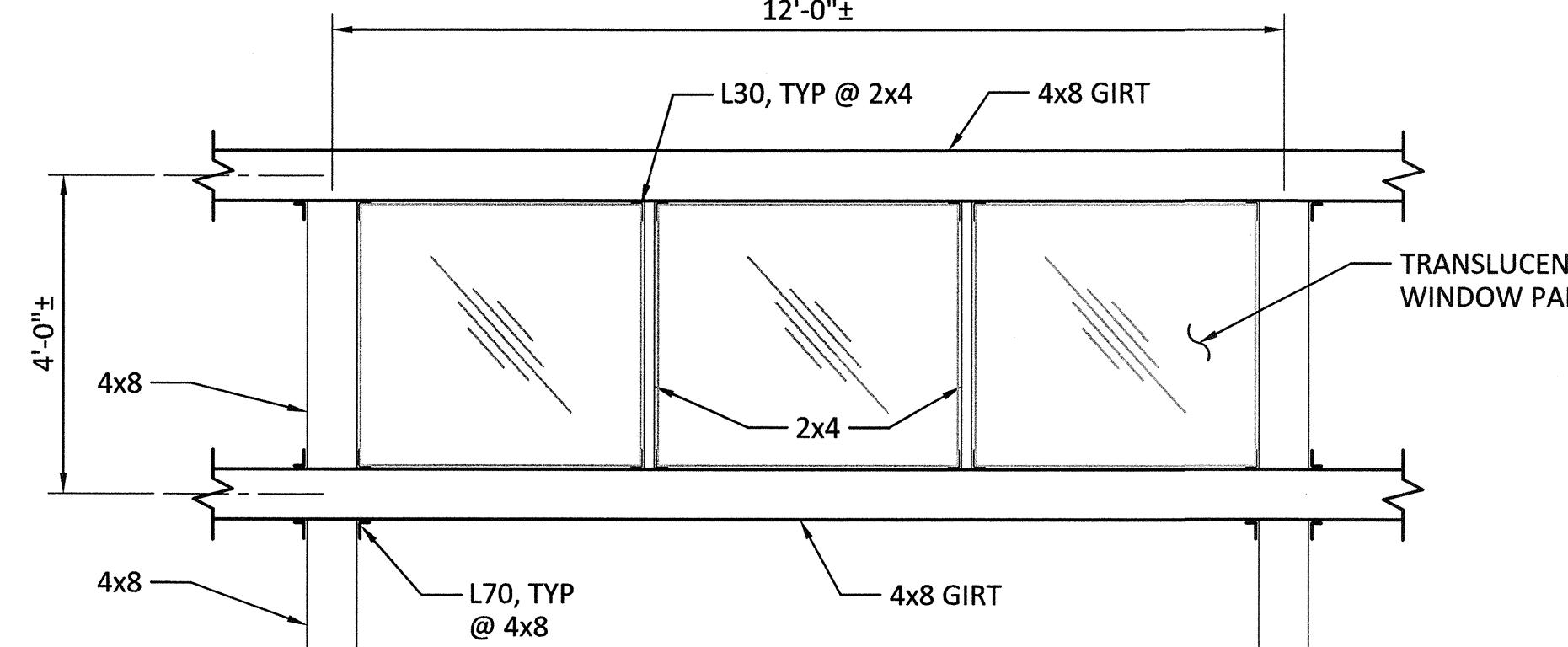
7 S3.0 DETAIL - TYPICAL VENT SCALE: 1 1/2" = 1'-0"



inches
FOR BID



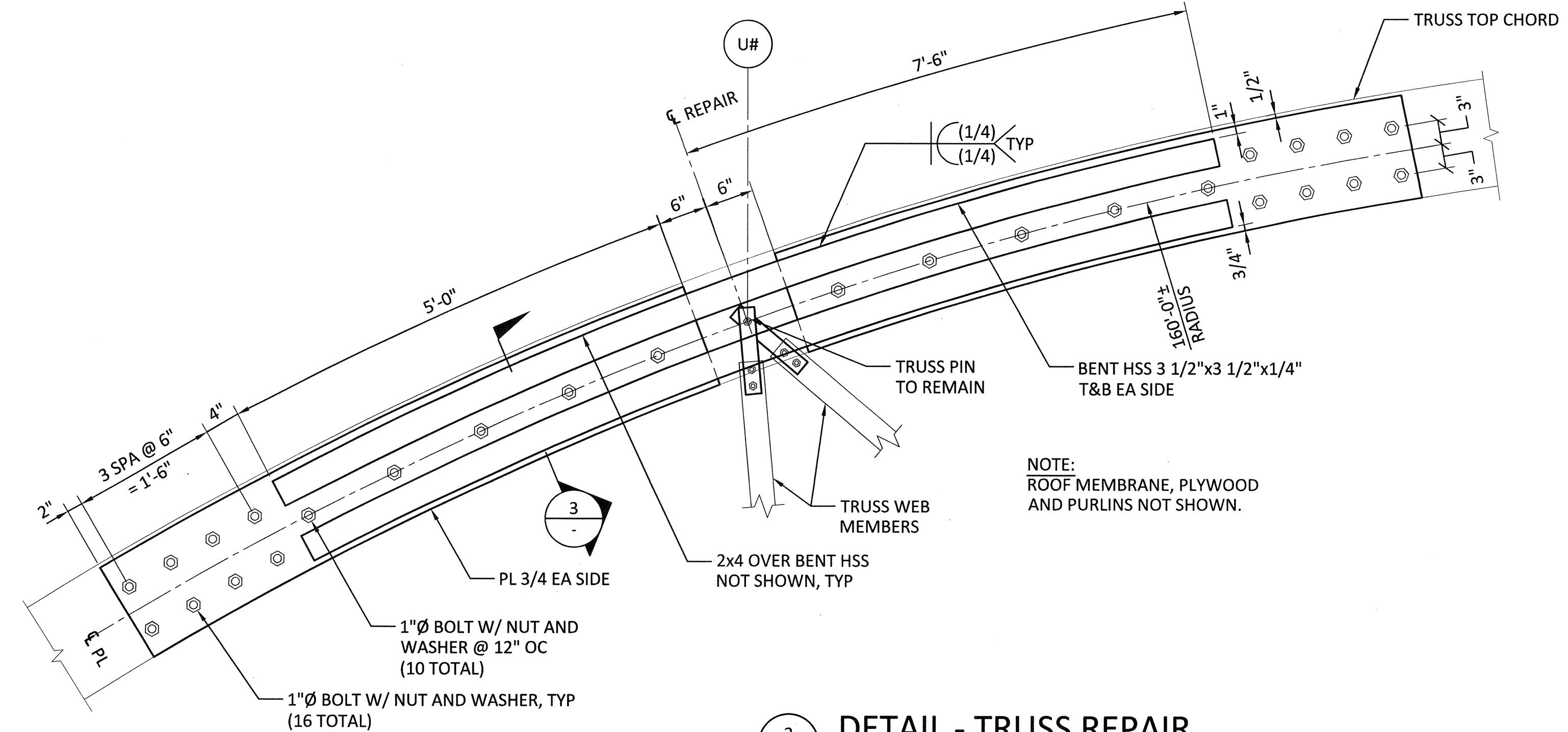
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1
S3.2
S3.3

2
S2.1

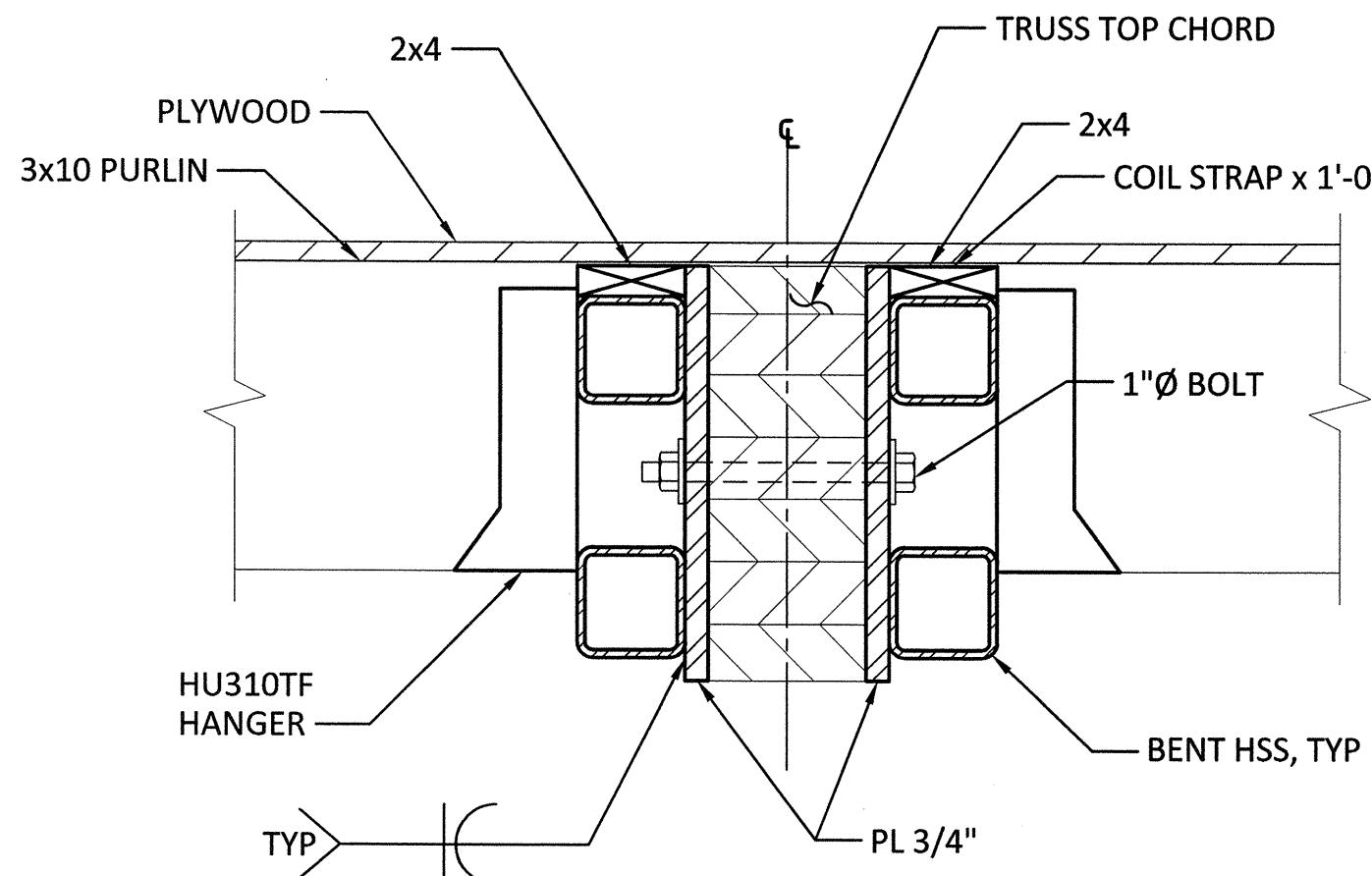
DETAIL - TYPICAL FRAMING AT WINDOWS



3
S2.1

4
S2.1

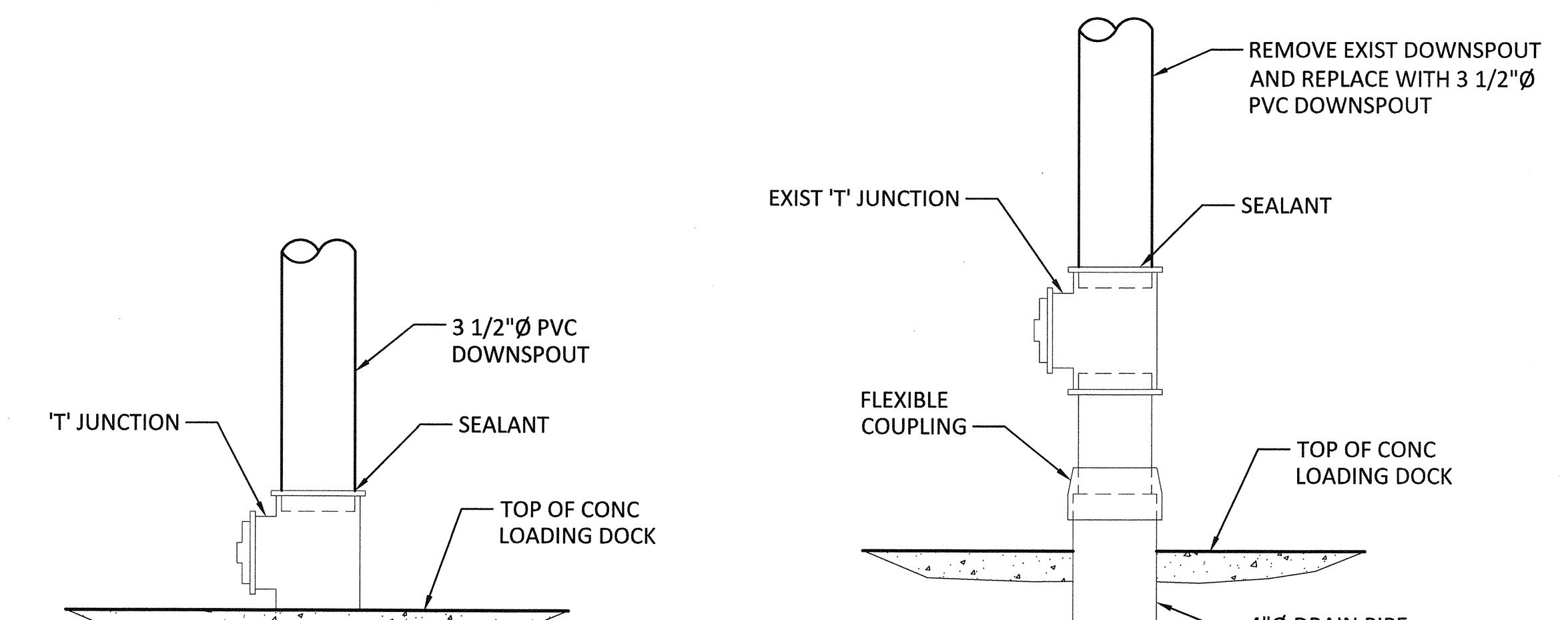
DETAIL - TRUSS REPAIR



3
S3.0

4
S3.0

DETAIL - TRUSS REPAIR



4
S3.0

5
S3.0

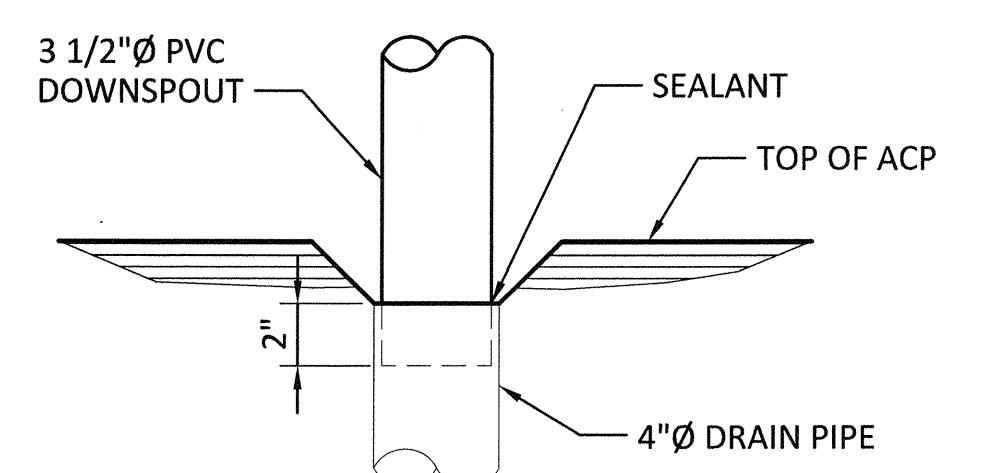
6
S3.0

DETAIL - DOWNSPOUT TIE-IN (AT EAST WALL)

5
S3.0

6
S3.0

DETAIL - DOWNSPOUT TIE-IN (AT WEST WALL)

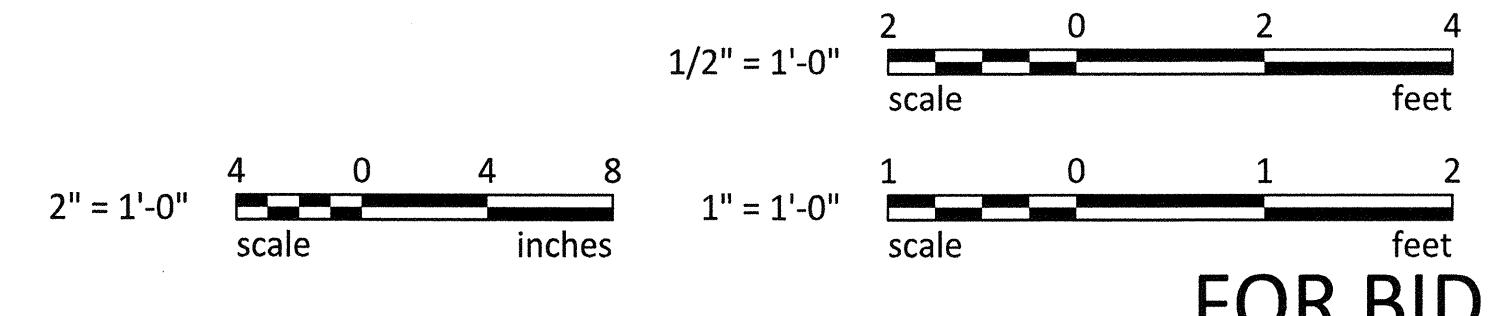


6
S3.0

7
S3.0

8
S3.0

DETAIL - DOWNSPOUT TIE-IN (AT NORTH AND SOUTH WALL)



FOR BID

6553		S4.2		TERMINAL 7 WAREHOUSE REHABILITATION	
SHEET 16 OF 36		DETAILS SHEET 3		APPROVED: <i>John</i> DSE 3/16/16 CHECKED BY <i>John</i> DATE 3/16/16	
CONT/CONS:	070160	TOWNSHIP: 21N	RANGE: 03E	DIR OF ENG: MAD	PROJ. ENGR: DATE
MASTER ID NO:	091569	DAF-HRZ: NAD83 (2007)	VERT: MLW 19 39' @ TIDE 22 1933	PRINTED BY: mike.dodson	PORT ADDRESS: ONE STICUM WAY
PHASE: FOR BID		DRAWING SCALE: AS SHOWN		TACOMA, WA 98421-2300	
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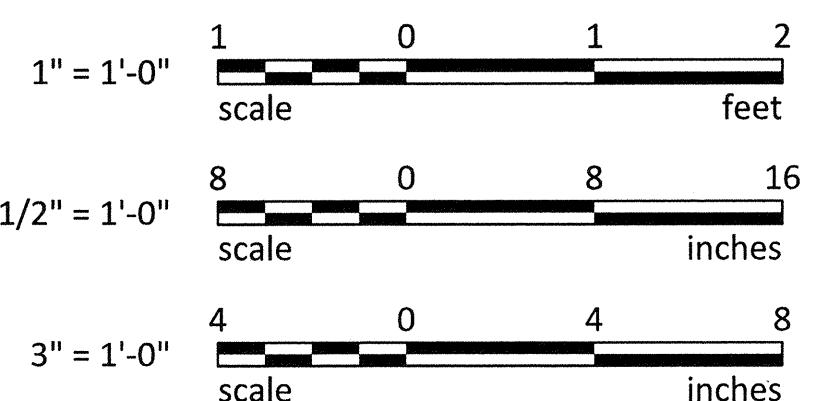
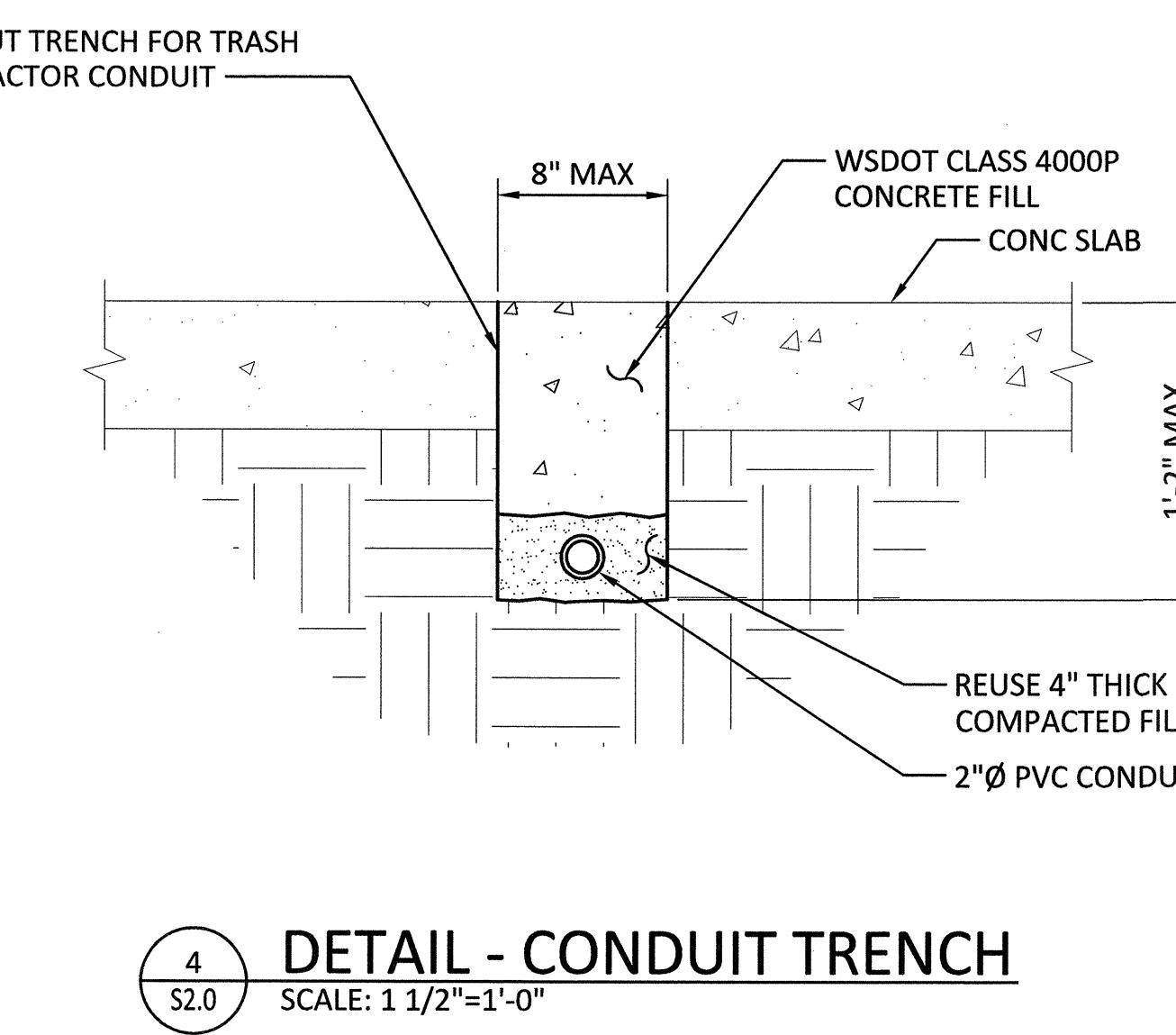
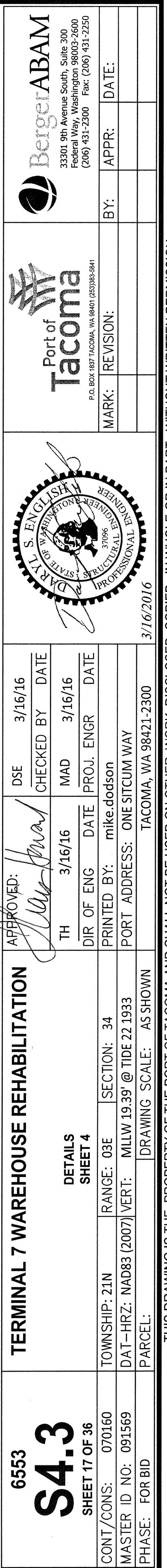
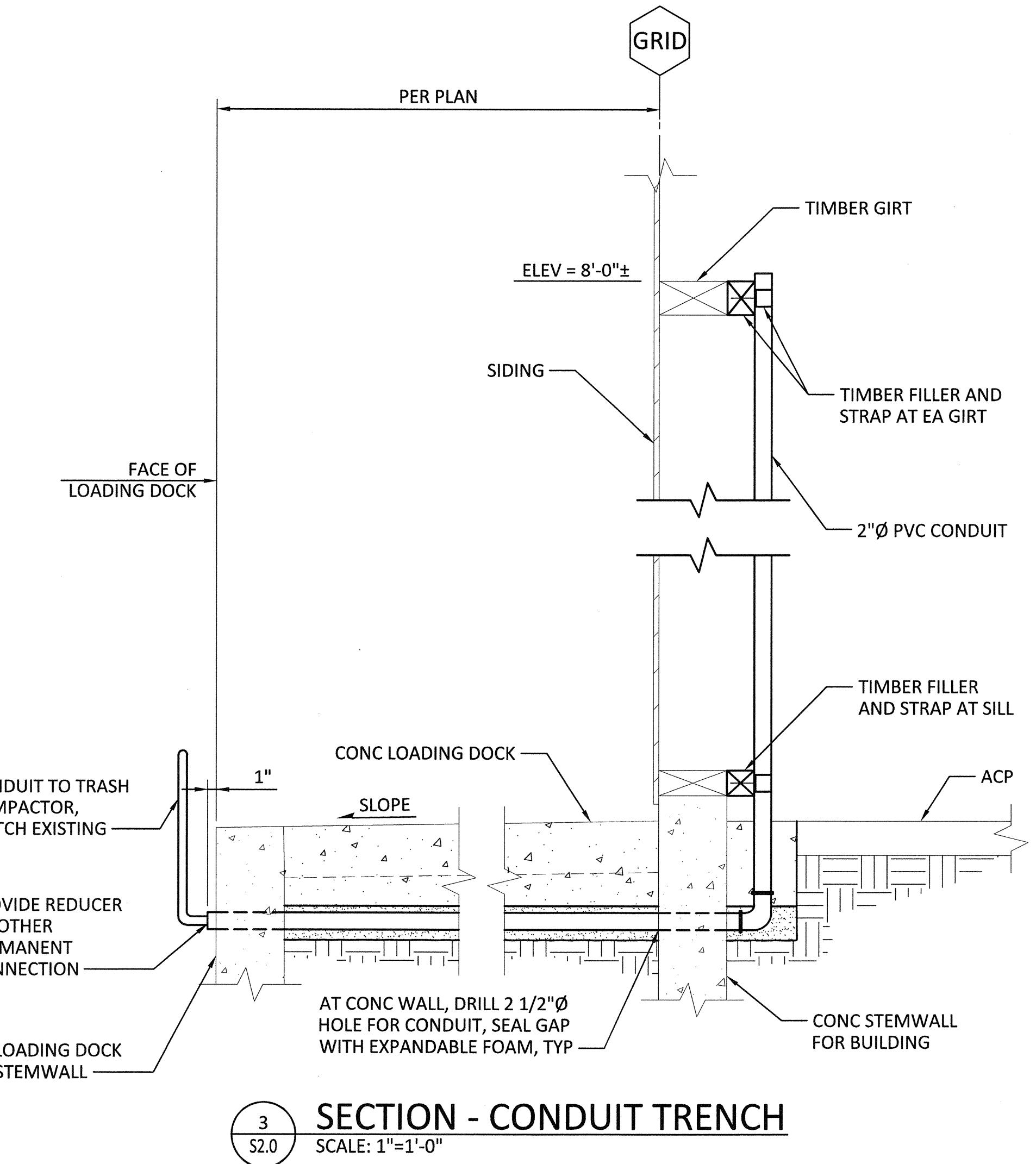
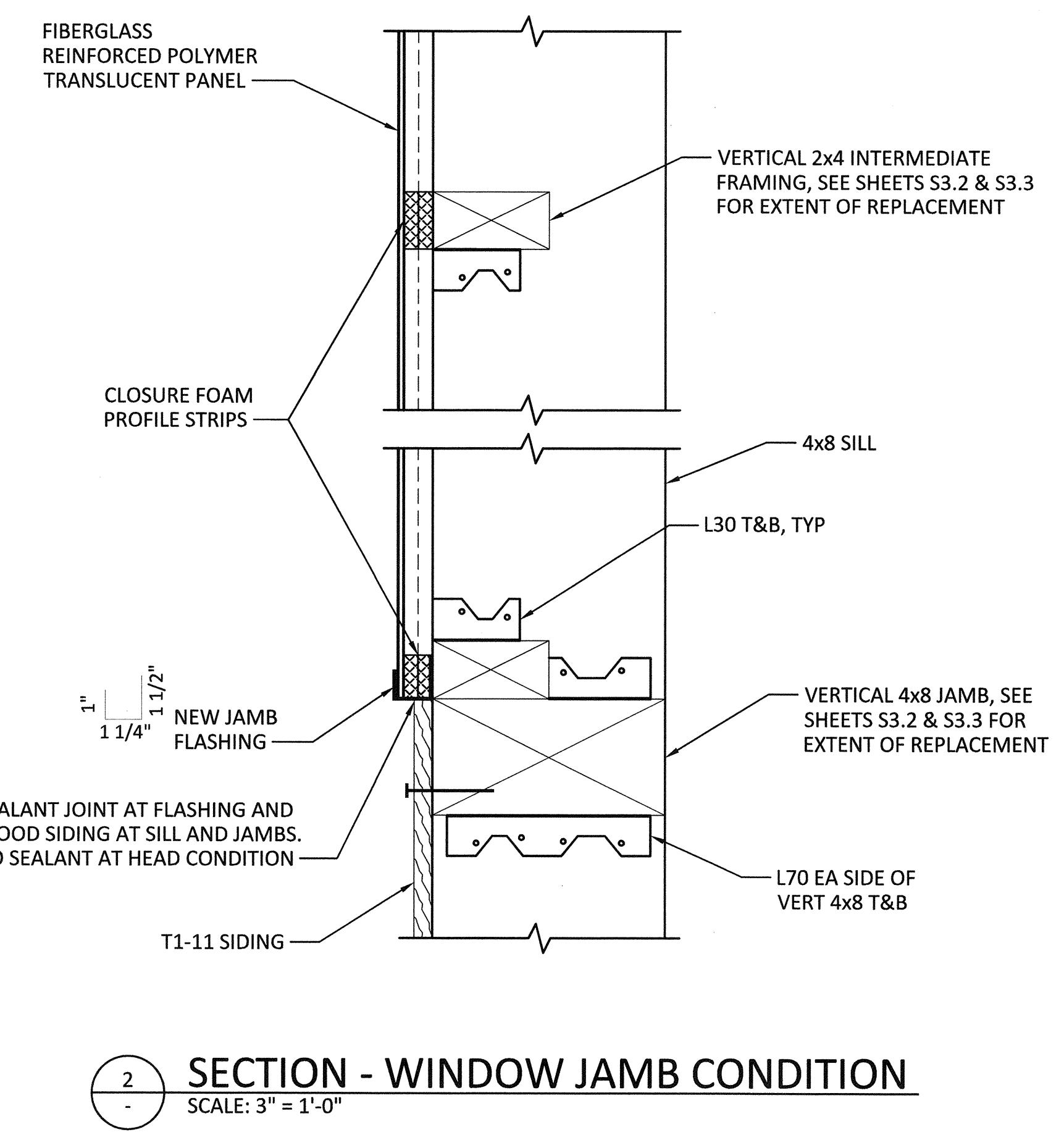
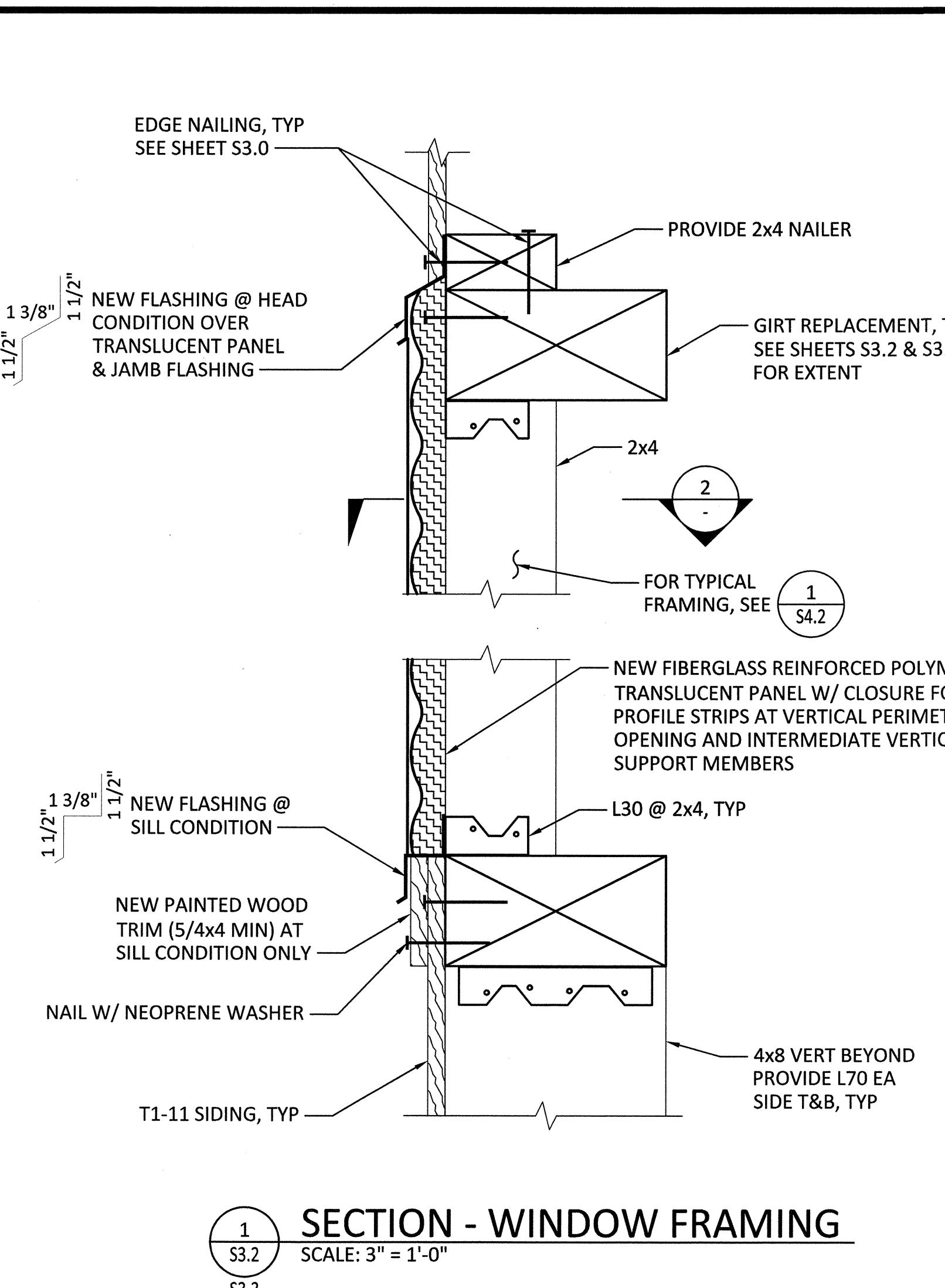
Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98441-2834
3330 9th Avenue South, Suite 300
Federal Way, Washington 98003-2600
(206) 431-2300 Fax: (206) 431-2350

MARK: REVISION: BY: APPR: DATE:

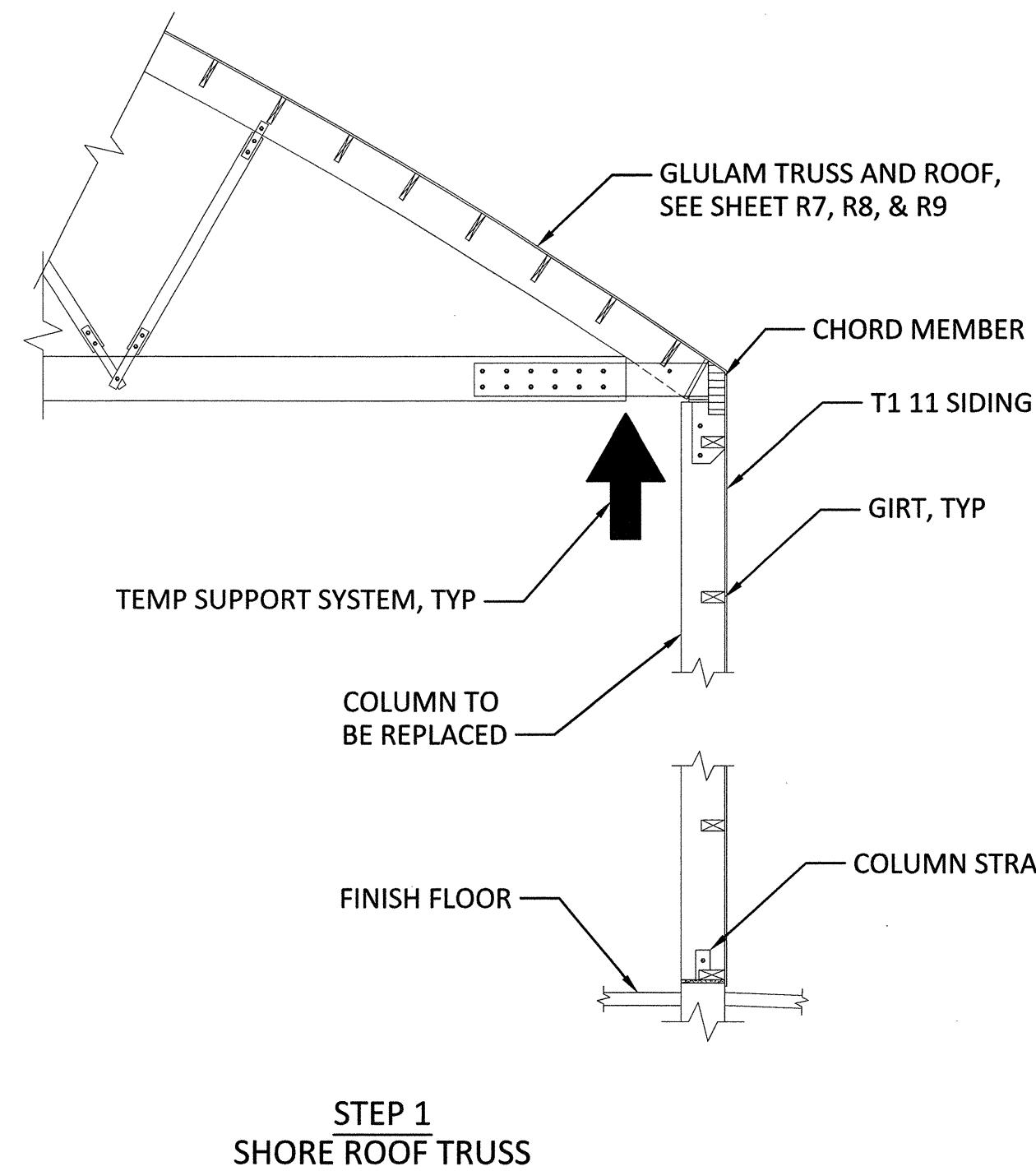
3/16/2016

John

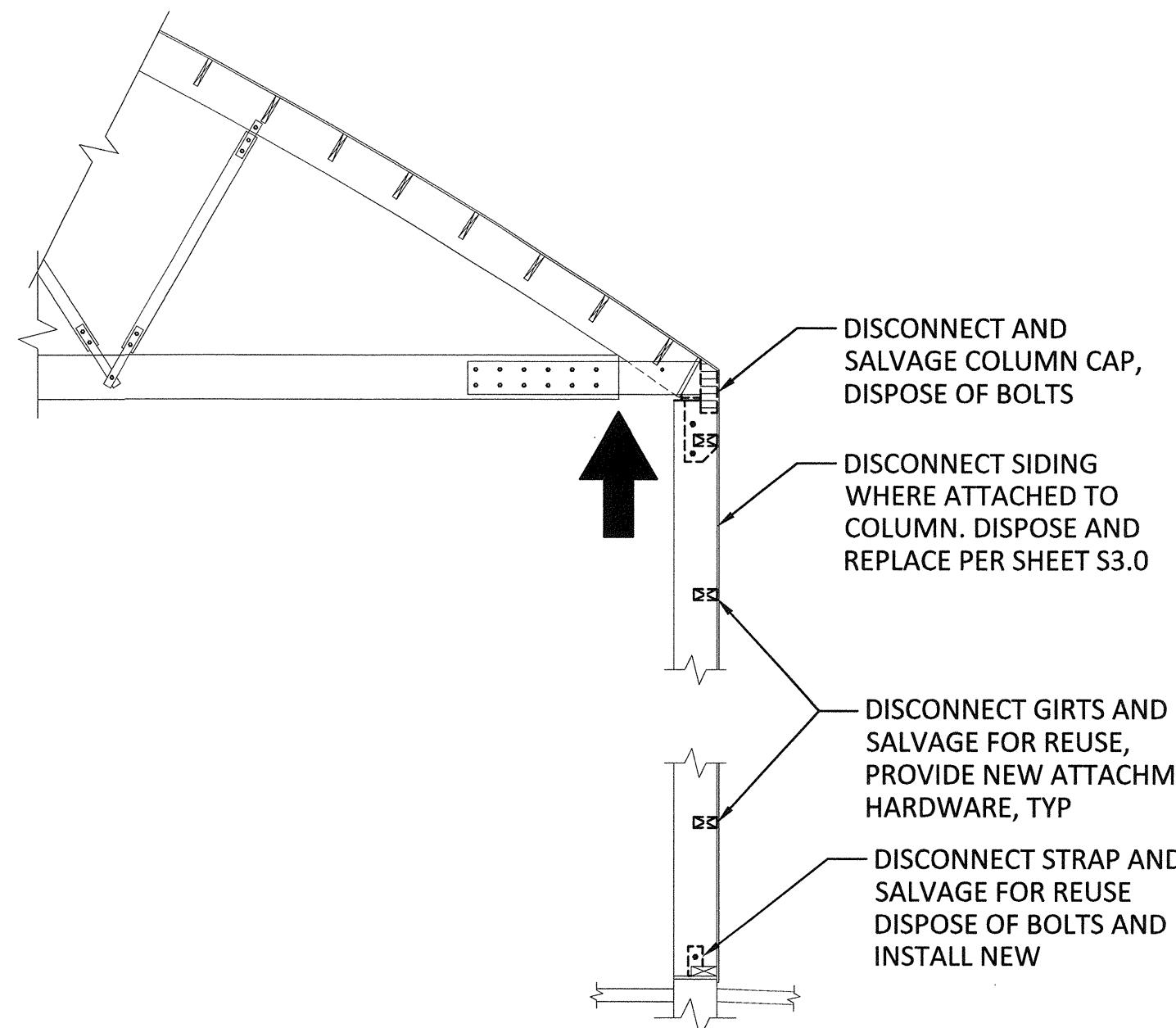
PROFESSIONAL ENGINEER
3706
S. ENGLANDER
P.E.



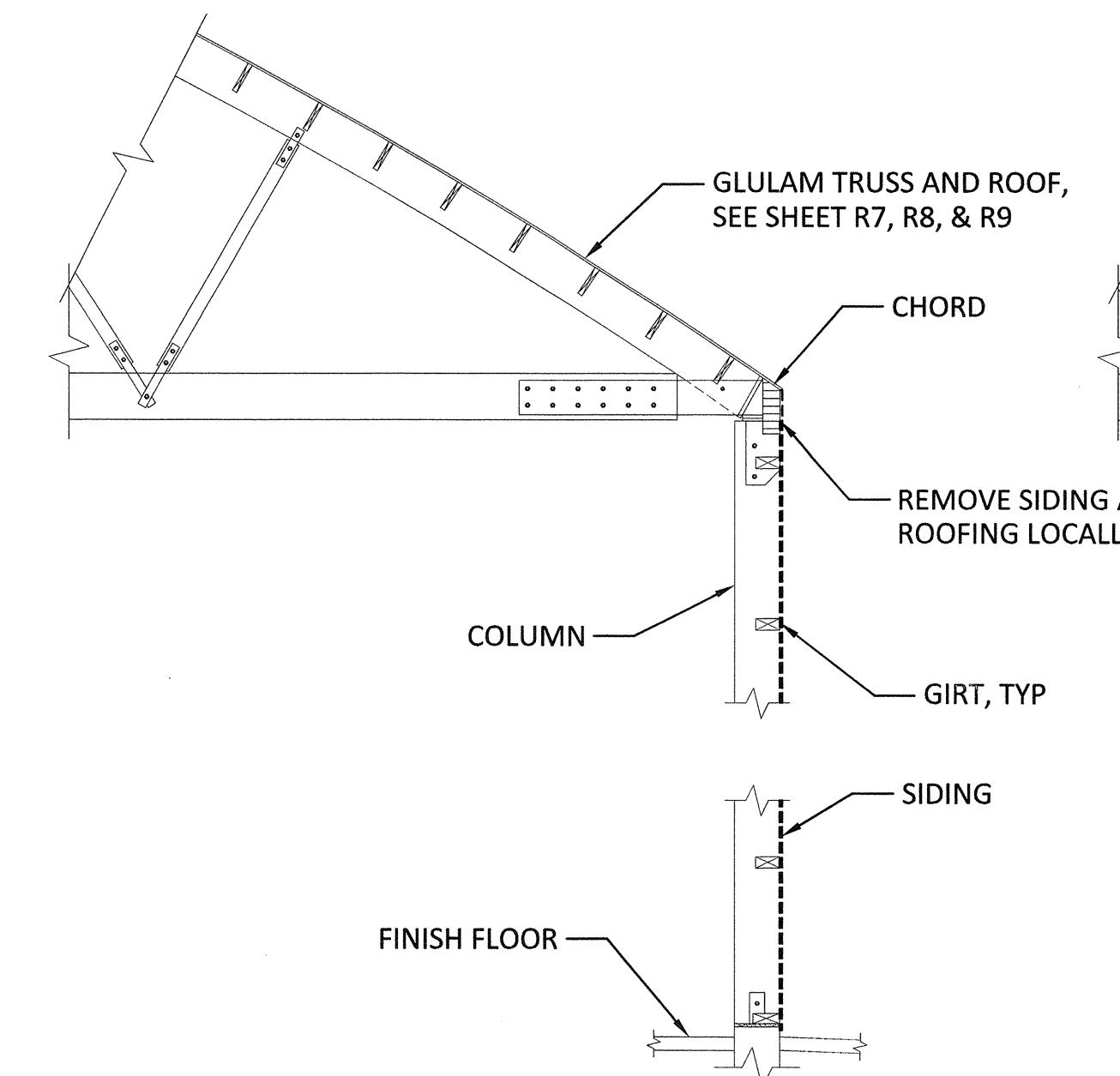
FOR BID



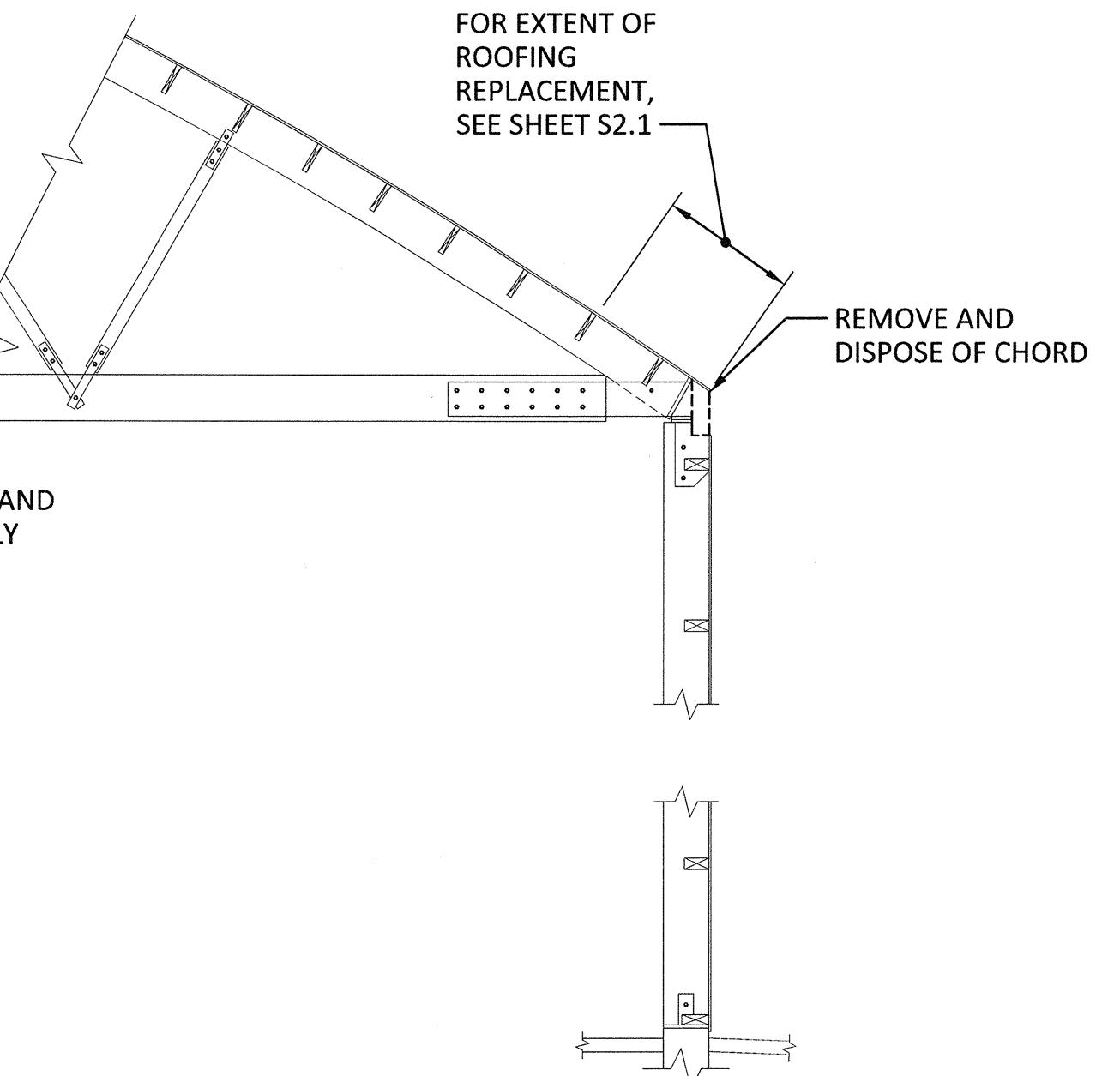
STEP 1 SHORE ROOF TRUS



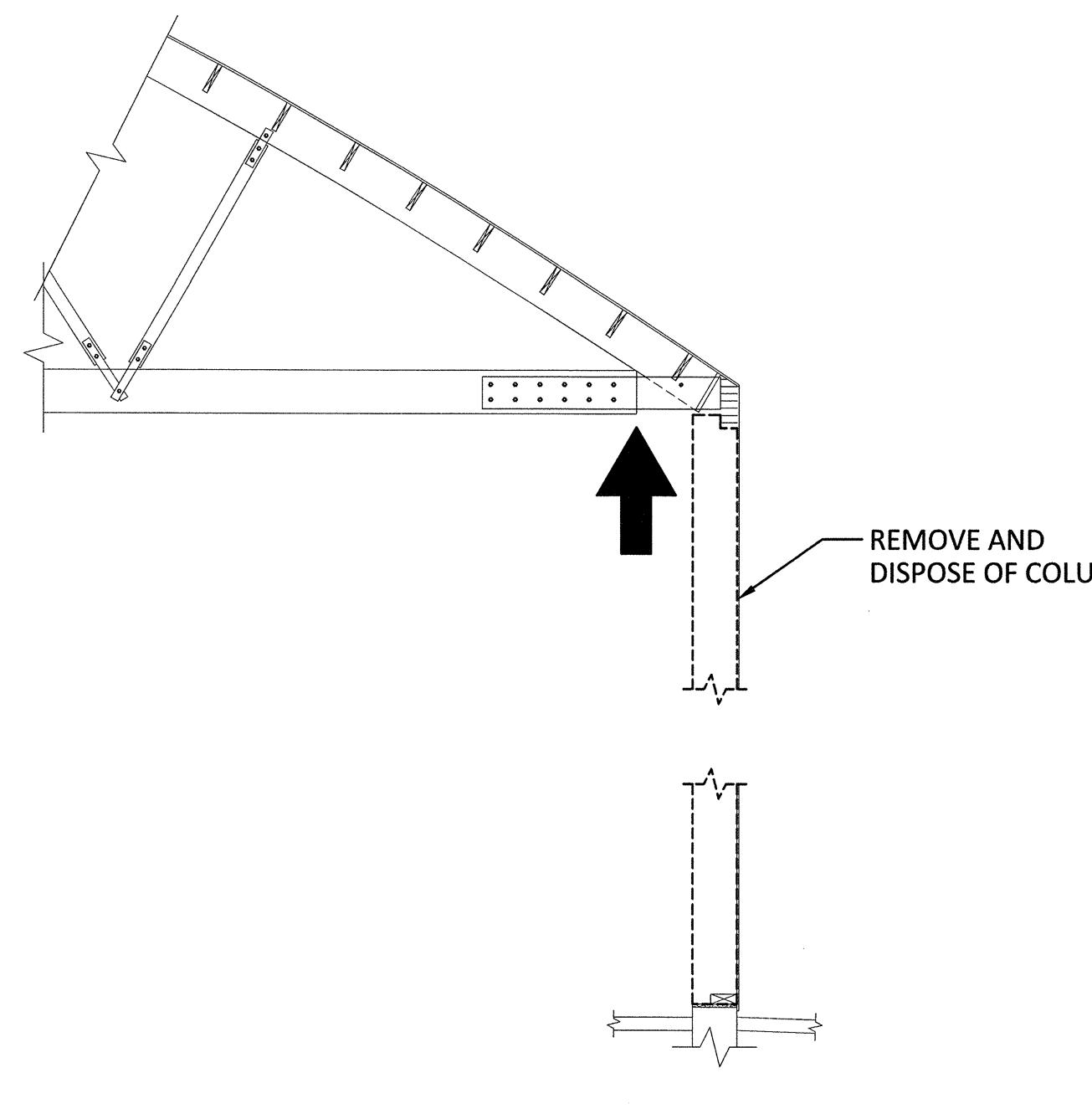
STEP 2 DISCONNECT FROM ADJACENT FRAMING



STEP 1 REMOVE SIDING

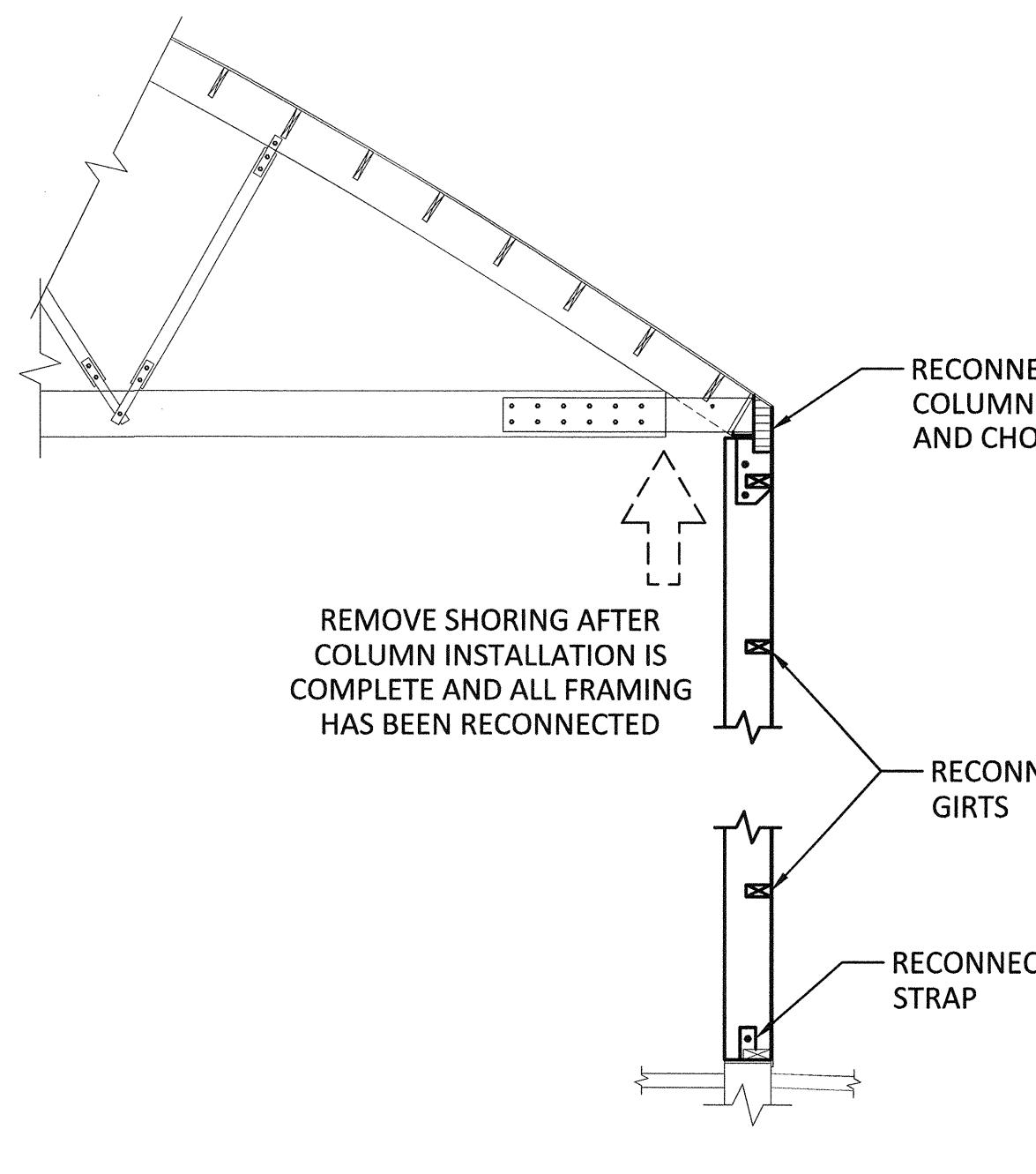


STEP 2 DISCONNECT CHORD FROM COLUMN

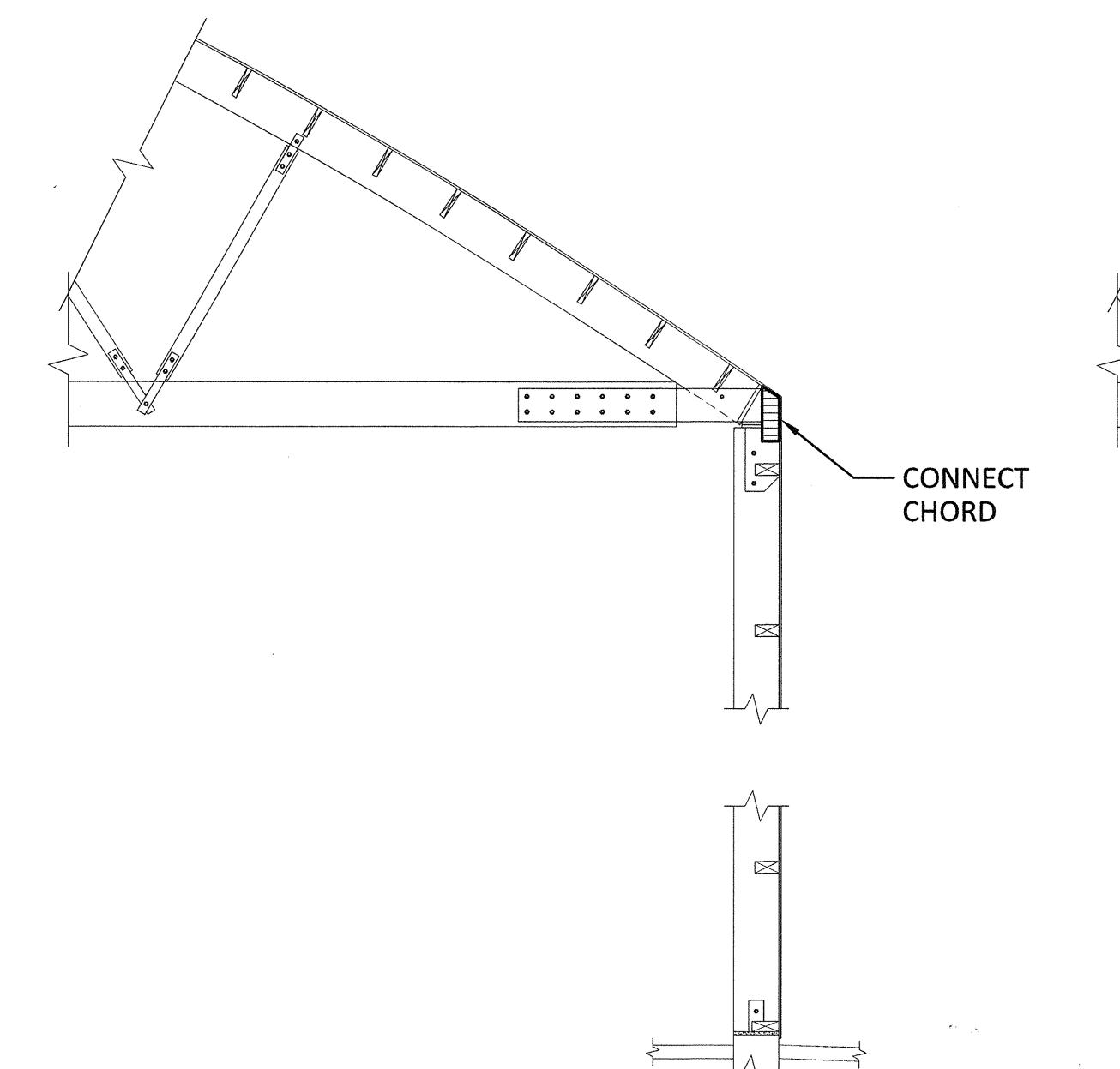


STEP 3

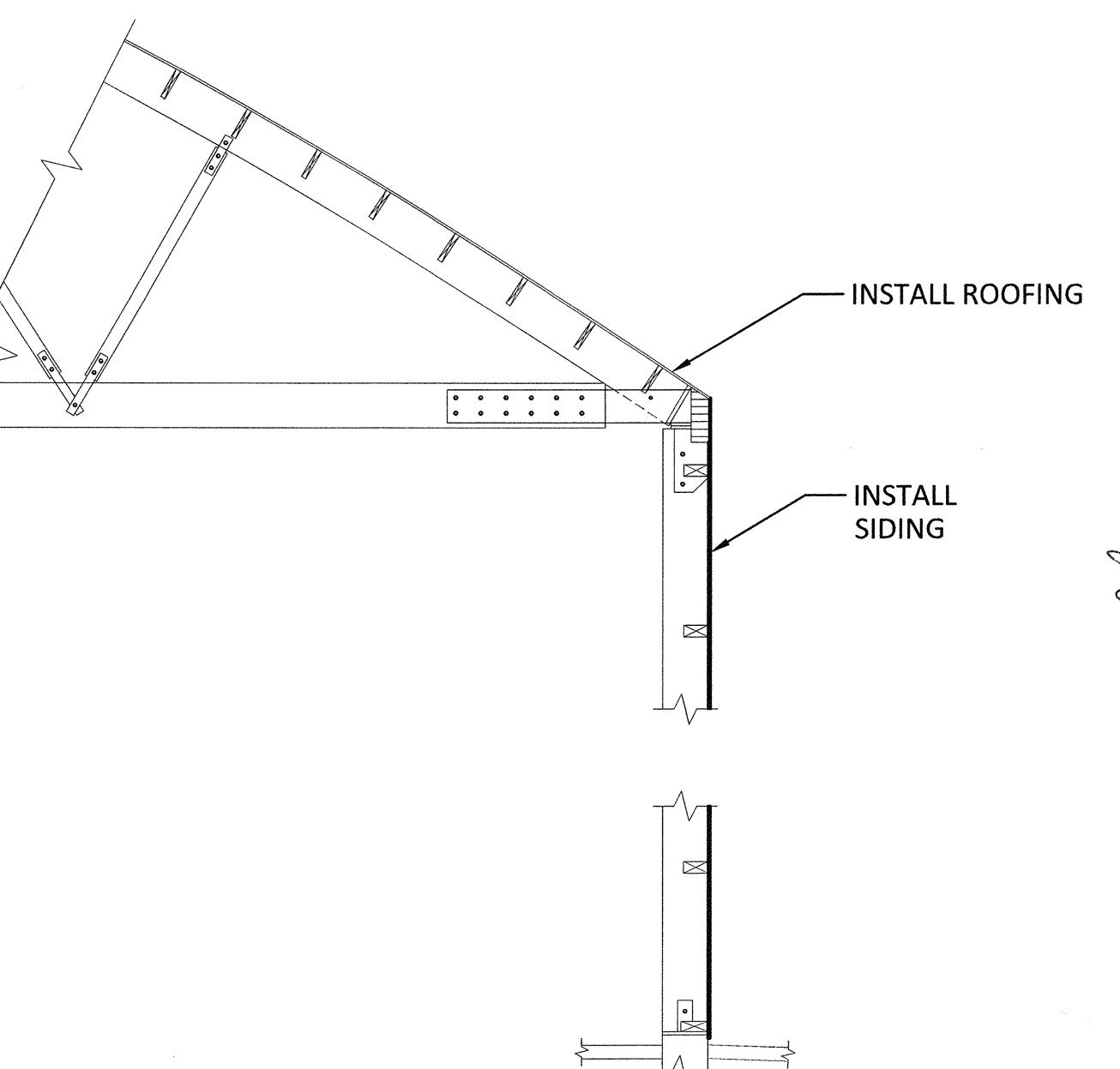
REMOVE DAMAGED COLUMN



STEP 4



STEP 3 REPLACE CHORD



STEP 4 REPLACE SIDING

1 DETAIL - SUGGESTED COLUMN REPLACEMENT SEQUENCE
- SCALE: NTS (SEE REFERENCE SHEETS R7 THROUGH R11)

(SEE REFERENCE SHEETS R7 THROUGH R11)

1) **DETA**
-) **SCALE: N**

- SCALE: N

2 - DETAIL - SUGGESTED CHORD REPLACEMENT SEQUENCE

SCALE: NTS /SEE PREFERENCE SHEETS P7 THROUGH P11)

REPLACEMENT SEQUENCE
(SEE REFERENCE SHEETS R7 THROUGH R11)

2) DET
- SCALE

-  SCALE:

ASSUMPTIONS

1. DURING COLUMN REPLACEMENT, DO NOT ALLOW ROOF LIVE LOADS WITHIN THE TRIBUTARY AREA OF THE COLUMN BEING REPLACED.
2. REPLACE SINGLE COLUMN AT A TIME.
3. DO NOT PERFORM COLUMN REPLACEMENT REPAIRS IF WIND GUSTS EXCEED CONTRACTOR-SELECTED DESIGN SPEED IN FALSEWORK CALCULATIONS AND SUBMITTAL.
4. ELEVATE TRUSS TO INSTALL NEW COLUMN, WITHOUT DAMAGING OR CRACKING ADJACENT FRAMING AND MEMBERS.
5. DISTRIBUTE SHORING LOAD TO PREVENT SETTLEMENT OF ACP.

FOR BID