

# AUBREY DAVIS PARK PICNIC SHELTER

2030 72ND AVE SE, MERCER ISLAND, WA 98040

## PROJECT DIRECTORY

<b>OWNER:</b> CITY OF MERCER ISLAND 9611 SE 36TH ST. MERCER ISLAND, WA 98040	<b>ARCHITECT:</b> HOSHIDE WANZER ARCHITECTS 100 NE NORTHLAKE WAY, SUITE 150 SEATTLE, WA 98105	<b>STRUCTURAL ENGINEER:</b> ANNEE STRUCTURAL ENGINEERING 1801 18TH AVE S SEATTLE, WA 98144
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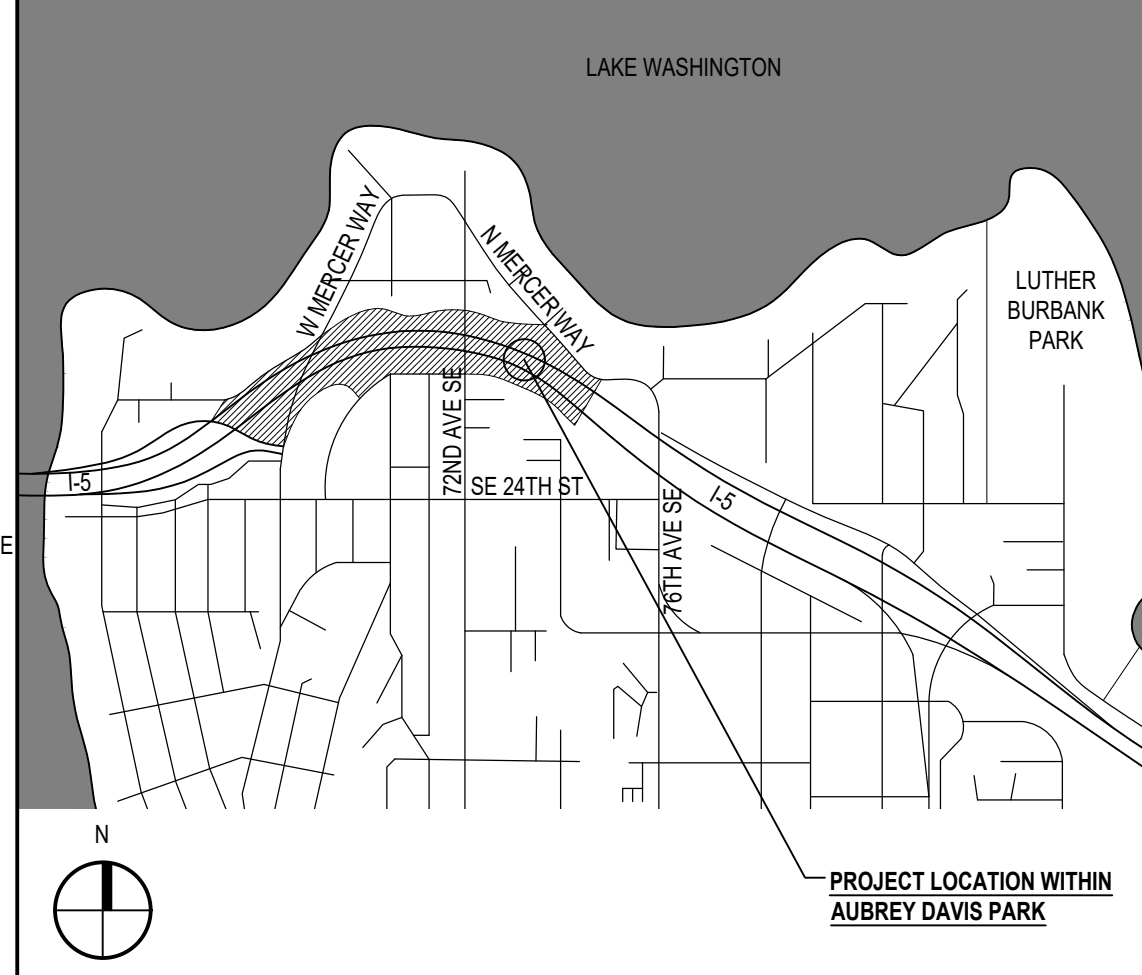
## PLAN AND SECTION LEGEND

SYMBOLS ARE ARCHITECTS STANDARDS, MAY NOT ALL BE USED ON THIS PROJECT

TYPICAL ARCHITECTURAL SYMBOLS		TYPICAL DETAIL HATCHES	
	PLAN KEYNOTE		SOLID WOOD, FINISH
	STRUCTURAL GRID LINE		PLYWOOD
	DATUM POINT		COMPOSITE CORE MATERIAL W/ VENEER
	BUILDING SECTION/ELEVATION		MDF W/ VENEER
	WALL SECTION		GYPSPUM WALLBOARD
	DETAIL MARKER		PLASTER
	WALL TYPE		STEEL OR IRON
	WINDOW MARK		ALUMINUM
	AREA IDENTIFIER		STONE
	FINISH MARK (ELEVATION)		EXISTING CONSTRUCTION (PLAN)
	FINISH MARK (PLAN)		DEMOLISH EXISTING CONSTRUCTION (DASHED)
	FINISH MATERIAL ELEVATION		NEW CONSTRUCTION (NON-RATED)
	WATERPROOF 120V DUPLEX RECEPTACLE		NEW CONSTRUCTION (RATED ASSEMBLY, REFER TO ASSEMBLY TYPE)
	AREA IDENTIFIER		WOOD
	AREA IDENTIFIER		METAL
	AREA IDENTIFIER		MASONRY
	AREA IDENTIFIER		CONCRETE
	AREA IDENTIFIER		GLAZING
	AREA IDENTIFIER		EXISTING CONCRETE

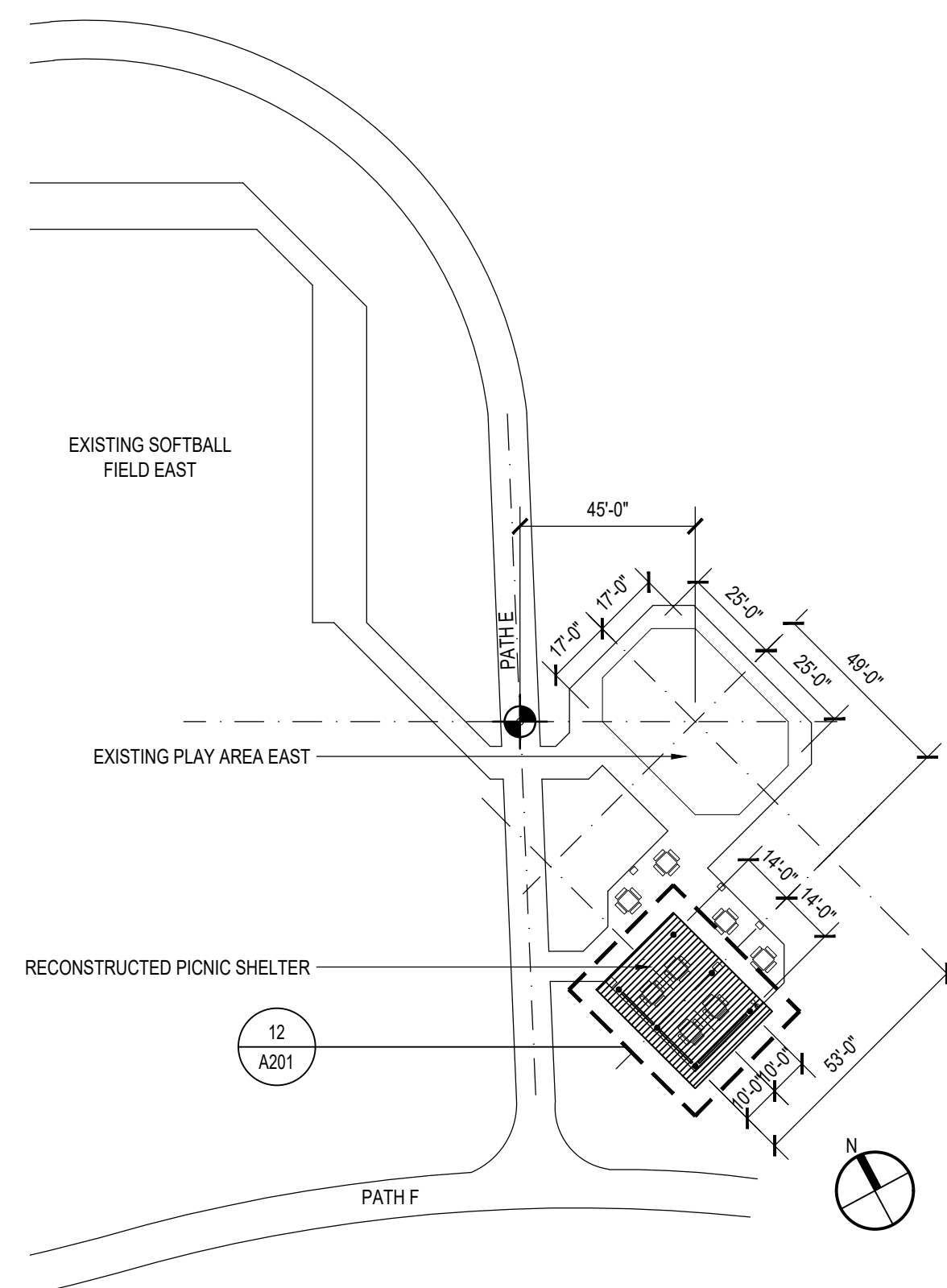
## VICINITY MAP

SCALE: NTS



## SITE PLAN

SCALE: 1" = 40'-0"



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- G1.1 PROJECT INFORMATION  
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## PROJECT DATA

PROJECT OWNER: CITY OF MERCER ISLAND PARKS AND RECREATION  
 PROJECT ADDRESS: 2030 72ND AVE SE, MERCER ISLAND, WA 98040  
 SCOPE OF WORK: RECONSTRUCTION OF AN EXISTING PARK PICNIC STRUCTURE PREVIOUSLY DESTROYED BY A FIRE.

## CODE SUMMARY

APPLICABLE CODES (WA STATE AND CITY OF MERCER ISLAND AMENDMENTS APPLICABLE TO ALL CODES)

LAND USE CODE	CITY OF MERCER ISLAND UNIFIED LAND DEVELOPMENT CODE
BUILDING CODE	2018 INTERNATIONAL BUILDING CODE
ENERGY CODE	2018 WASHINGTON STATE ENERGY CODE
FIRE CODE	2018 INTERNATIONAL FIRE CODE
ELECTRICAL CODE	NATIONAL ELECTRICAL CODE (NFPA 70)
MECHANICAL CODE	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE	2018 UNIFORM PLUMBING CODE

## ABBREVIATIONS

AB	ANCHOR BOLT	CONN	CONNECTION	EXT	EXTERIOR	INCL	INCLUDING	OH	OVERHEAD	S	SOUTH	UNFIN	UNFINISHED
ABV	ABOVE	CONSTR	CONSTRUCTION	FA	FIRE ALARM	INFO	INFORMATION	OPH	OPPOSITE HAND	SA	SUPPLY AIR	UNO	UNLESS NOTED
AC	AIR CONDITIONING	CONT	CONTINUOUS	FB	FIBERGLASS	INSUL	INSULATION, INSULATE	OPP	OPPOSITE	SAN	SANITARY	UR	URINAL
ACC	ACCESSIBLE	CONTR	CONTRACTOR	FDC	FIRE DEPARTMENT CONNECTION	INT	INTERIOR	OTS	OPEN TO STRUCTURE OVERHEAD	SB	SETBACK		
ACRYL	ACRYLIC	COORD	COORDINATE	FD	FLOOR DRAIN	INTERM	INTERMEDIATE	OVHD	OVERHEAD	SC	SCHEDULE	VAC	VENTILATION AND AIR CONDITIONING
ACP	ACOUSTICAL CEILING PANEL	CCORR	CORRIDOR	FDC	FIRE DEPARTMENT CONNECTION	JAN	JANITOR	P	PAINT	SD	STORM DRAIN/SOAP DISPENSER	VCT	VINYL COMPOSITION TILE
ACOUST	ACOUSTICAL	CR	COLD ROLLED	JAN	JANITOR	JAN	JANITOR	PAV	PAVING	SECT	SECTION	VERT	VERTICAL
AD	AREA DRAIN	CRNR	CORNER	FE	FIRE EXTINGUISHER	JS	JANITOR SINK	PARTN	PARTITION	SEALANT	SEALER/HARDENER	VEST	VESTIBULE
ADD	ADDITIVE	CS	CUT STONE	FEC	FIRE EXTINGUISHER	JST	JOIST	PBD	PARTICLE BOARD	SQ	SQUARE FEET	VIF	VERIFY IN FIELD
ADJ	ADJUSTABLE	CT	CERAMIC TILE	FC	FACE	JT	JOINT	PCAST	PRECAST	SH	SPRINKLER HEAD	VR	VAPOR RETARDER
AFF	ABOVE FINISH FLOOR	CTR	CENTER	FF	FACTORY FINISH	FF&E	FURNITURE, FINISHES AND EQUIPMENT	PERF	PERFORATED	SHR	SHOWER	VT	VINYL TILE
AGGR	AGGREGATE	CTS	COUNTERSUNK	FF&E	FURNITURE, FINISHES AND EQUIPMENT	KPL	KICK PLATE	PERM	PERIMETER	SHR	SHOWER	VWC	VINYL WALL COVERING
AHJ	AUTHORITY HAVING JURISDICTION	CW	COLD WATER	FFE	FINISH FLOOR ELEVATION	KO	KNOCK OUT	PERP	PERPENDICULAR	SIM	SIMILAR	W	WEST, WIDE, WASHING
ALUM	ALUMINUM	D	DEEP, DEPTH	FH	FLAT HEAD	LAM	LAMINATE, LAMINATED	PI	POINT OF INTERSECTION	SLT	SLATE TILE	W	WEST, WIDE, WASHING
ALT	ALTERNATE	DBL	DOUBLE	FLX	FLUXING	LAV	LAVATORY	PL	PLASTIC LAMINATE	SND	SOUND	W/	WITH
ANCH	ANCHOR	DECID	DECIDUOUS	FLV	FLASHING	LDG	LANDING	PLAST	PLASTER	DISP	DISPENSER	W/	WASHER/DRYER
AP	ACCESS PANEL	DEG	DEGREE	FLUOR	FLUORESCENT	LF	LINEAR FOOT	PLBG	PLUMBING	SP	STANDPIPE	W/O	WITHOUT
APPROX	APPROXIMATE	DEPT	DEPARTMENT	FLR	FLOOR	LIN	LINEN	PLYWD	PLYWOOD	SPEC	SPECIFICATION	WC	WATER CLOSET
ARCH	ARCHITECTURAL	DET	DETAIL	FND	FOUNDATION	LKR	LOCKER	PNL	PANEL	SPR	SPRINKLER	WD	WOOD
ASPH	ASPHALT	DF	DRINKING FOUNTAIN	FO	FACE OF	LN	LINE	POL	POLISHED	SPK	SPEAKER	WDS	WOOD SCREW
AUTO	AUTOMATIC	DIA	DIAMETER	FP	FIRE PROTECTION	LTP	LOW POINT	PAIR	PAIR	FP	FLAME PROTECTANT	WOW	WINDOW
AV	AUDIO VISUAL	DIAG	DIAGONAL	FP	FIRE PROOFING	LTP	LOW POINT	PREFAB	PREFABRICATED	SQFT	SQUARE FEET	WIC	WALK-IN-CLOSET
AVG	AVERAGE	DIFF	DIFFUSOR	FRP	FIBER REINFORCED PANEL	LTG	LIGHTING	PROJ	PROJECT	SS	STAINLESS STEEL	WP	WATER PROOFING
BD	BOARD	DIS	DISPOSAL	FRT	FIRE RETARDANT	MAINT	MAINTENANCE	PT	PAPER TOWEL DISPENSER	ST	STONE TILE	WPM	WATER PROOF MEMBRANE
BF	BI-FOLD	DISP	DISPENSER	FRT	FIRE RETARDANT	MAINT	MAINTENANCE	PTD	PAPER TOWEL DISPENSER	STN	STAIN	WR	WEATHER RESISTANT
BG	BELOW GRADE	DN	DOWN	FT	FEET	MATL	MATERIAL	PTN	PARTITION	STA	STATION	WRB	WEATHER-RESISTANT
BITUM	BITUMINOUS	DO	DOOR OPENING	FURN	FURNITURE	MAX	MAXIMUM	PTR	PAPER TOWEL RECEPTACLE	STL	STEEL	W/	WINDOW
BLDG	BUILDING	DP	DEEP	FURR	FURRING	MECH	MECHANICAL	RT	RECEPTACLE	STLJST	STEEL JOIST	W	WASHER/DRAIN
BLK	BLOCK	DR	DOOR	G	GROUT	MEMB	MEMBRANE	STOR	STORAGE	STOR	STRUCTURAL	WS	WEATHER STRIPPING
BLKG	BLOCKING	DRN	DRAIN	GA	GUAGE/GAGE	MEZZ	MEZZANINE	STOR	STRUCTURE	SUSP	SUSPENDED	WSCT	WAINSCOT
BM	BEAM	DS	DOWNSPOUT	MFR	MANUFACTURER	MISC	MISCELLANEOUS	QTY	QUANTITY	SUSP	SUSPENDED	WT	WEIGHT
BO	BOTTOM OF	DW	DISHWASHER	MG	MARINE GRADE	MOD	MODIFY/MODIFIER	R	RADIUS	SYMM	SYMMETRICAL	WW	WALL TO WALL
BOT	BOTTOM	DWG	DRAWING	GB	GRAB BAR	MH	MANKOLE	RA	RETURN AIR	SYS	SYSTEM		
BRG	BEARING	DWR	DRAWER	GC	GENERAL CONTRACTOR	MIN	MINIMUM	RB	RESILIENT BASE	T	THERMOSTAT		
BRK	BRICK	GL	GLASS	GR	GRADE	MISC	MISCELLANEOUS	RCP	REFLECTED CEILING PLAN	T&G	TONGUE AND GROOVE		
BTWN	BETWEEN	GWB	GYPSPUM WALLBOARD	MS	MODIFY/MODIFIER	MTG	MOUNTING	RD	ROOF DRAIN	TB	TOWEL BAR		
CAB	CABINET	EA	EACH	MS	MODIFY/MODIFIER	REC	RECOMMENDED	REC	RECEPTACLE	T&G	TONGUE AND GROOVE		
CAT	CATEGORY	EB	EXPANSION BOLT	MTG	MOUNTING	RECOM	RECOMMENDED	REC	RECEPTACLE	TBD	TO BE DETERMINED		
CATON	CATCH BASIN	HC	HIGH HEIGHT	MTL	METAL	RECPT	RECEPTACLE	REC	RECESSED	TCNCN	TOP OF CONCRETE		
CEM	CEMENT	HB	HOSE BIB	MULL	MULLION	REF	REFERENCE	REF	REFLECT	TEL	TELEPHONE/TELECOM		
CI	CAST IRON	HC	HOLLOW CORE	MW	MICROWAVE	REF	REFERENCE	REF	REFLECT	TEMP	TEMPERATURE		
CIP	CAST-IN-PLACE	HCP	HANDICAPPED	N	NORTH	REFL	REFLECT	REFR	REFRIGERATOR	THK	THICKNESS		
CJ	CONTROL JOINT	HD	HAND DRYER	NA	NOT APPLICABLE	REFR	REFRIGERATOR	REG	REGISTER	THRES	THRESHOLD		
CL	CENTER LINE	HDW	HARDWARE	NC	NOISE CRITERIA	REIN	REINFORCE	REIN	REINFORCE	THRU	THROUGH		
CLAD	CLAD CLADDING	HOWD	HARD WOOD	NC	NOISE CRITERIA	REFL	REFLECT	REL	RELocate	TMPO	TEMPERED		
CLG	CEILING	EMERG	EMERGENCY	NI	NOT IN CONTRACT	REFL	REFLECT	REL	RELocate	TOP	TOP OF		
CLKG	CAULKING	EN	ENAMEL	NO	NOMINAL	REFL	REFLECT	REQ	REQUIRE/REQUIRED	TO	TOP OF		
CLK	CLOSET	ENCL	ENCLOSURE	NOM	NOMINAL	REQ	REQUIRE/REQUIRED	RESIL	RESILIENT	TOP	TOP OF		
CLC	CLOSET	EP	ELECTRICAL PANEL	NTS	NOT TO SCALE	RESIL	RESILIENT	REV	REVISION/REVISED	TOP	TOP OF		
CLR	CLEAR	EQ	EQUAL	HT	HIGH POINT	REV	REVISION/REVISED	RFB	RUBBER FLOOR	TOS	TOP OF SLAB		
CMU	CONCRETE MASONRY UNIT	EQPT	EQUIPMENT	HT	HEIGHT	RFB	RUBBER FLOOR	RFT	RESILIENT FLOOR TILE	TOSTL	TOP OF STEEL		
CONTR	COUNTER	EQUIV	EQUIVALENT	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	RFT	RESILIENT FLOOR TILE	RM	ROOM	TOW	TOP OF WALL		
CO	CLEAN OUT	ES	EACH SIDE	OD	OUTSIDE DIMENSION	RF	RUBBER FLOOR	RO	ROUGH OPENING	TPD	TOILET PAPER DISPENSER		
COL	COLUMN	EW	EACH WAY	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	RSF	RESILIENT SHEET FLOORING	RO	ROUGH OPENING	TPD	TOILET PAPER DISPENSER		
COMPART	COMPARTMENT	EXH	EXHAUST	HYDR	HYDRAULIC	RSF	RESILIENT SHEET FLOORING	RSD	RUBBER FLOOR	TV	TELEVISION		
CONC	CONCRETE	EXIST	EXISTING	OFI	OWNER FURNISHED, OWNER INSTALLED	RTG	RATED	RTG	RATING	TYP	TYPICAL		
COND	CONDITION	EXP	EXPANSION	ID	INSIDE DIAMETER	RTG	RATED	RTG	RATING	UC	UNDER COUNTER		
		EXPO	EXPOSED	INCH	INCH	OFF	OFFICE						

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE AND ALL OTHER GOVERNING LAWS, CODES, ORDINANCES AND REGULATIONS.
- DO NOT SCALE DIMENSIONS FROM DRAWINGS. USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT ONLY. NOTIFY THE ARCHITECT IMMEDIATELY IF CONFLICTS EXIST. DIMENSIONS ARE TO FACE OF STUD AND CONCRETE WALLS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO INITIATING THE WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
- THE DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED. SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT.
- THERE SHALL BE NO EXPOSED PIPE, CONDUIT, DUCTS, VENTS, AND THE LIKE. ALL SUCH LINES SHALL BE CONCEALED, UNLESS NOTED AS EXPOSED CONSTRUCTION ON THE DRAWINGS.
- THESE DRAWINGS COVER THE FURNISHING AND INSTALLATION OF ALL MATERIALS AND WORK AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS WHICH ARE BOUND SEPARATELY AND ARE A PART OF THIS CONTRACT. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO CHECK THE DRAWINGS BEFORE THE INSTALLATION OF HIS WORK. ANY DISCREPANCY SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BY WRITTEN REQUEST FOR CLARIFICATION. ANY WORK INSTALLED IN CONFLICT WITH THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- PROTECT ALL ADJACENT PROPERTIES AND IMPROVEMENTS FROM ALL DISTURBANCES AND DAMAGE.
- EXCEPT WHERE NOTED OTHERWISE, MATERIALS BEING DEMOLISHED SHALL BE IMMEDIATELY REMOVED FROM THE SITE FOR PROPER DISPOSAL.
- PROVIDE ALL MISCELLANEOUS CUTTING, DRILLING, AND DEMOLITION THAT IS REQUIRED THOUGH NOT SPECIFICALLY SHOWN. ALL CONSTRUCTION MATERIALS DAMAGED OR CUT DURING THE INSTALLATION OF THIS WORK MUST BE REPAIRED OR REPLACED WITH MATERIALS OF LIKE KIND AND QUALITY AS ORIGINAL MATERIALS BY SKILLED LABOR CERTIFIED IN THAT PARTICULAR BUILDING TRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING LOCATIONS OF STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL SYSTEMS, AND MISCELLANEOUS EQUIPMENT TO ASSURE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- INSTALL ATTACHMENTS IN MASONRY WALLS WITH EPOXY.

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2580 REGISTERED ARCHITECT  
 ROBERT I. HOSHIDE  
 STATE OF WASHINGTON

**AUBREY DAVIS  
 PARK  
 PICNIC SHELTER**  
 MERCER ISLAND, WA 98040

PROJECT DESCRIPTION:  
 RECONSTRUCTION OF AN EXISTING PARK  
 PICNIC STRUCTURE, PREVIOUSLY  
 DESTROYED BY A FIRE.

DRAWN BY: RK  
 CHECKED BY: BH  
 DATE: 02.01.22

REVISIONS:

BID SET

PROJECT  
 INFORMATION

G1.1

2/1/2022



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2580 REGISTERED ARCHITECT  
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 ROBERT I. HOSHIDE  
 STATE OF WASHINGTON

AUBREY DAVIS PARK  
 PARK  
 PICNIC SHELTER

MERCER ISLAND, WA 98040

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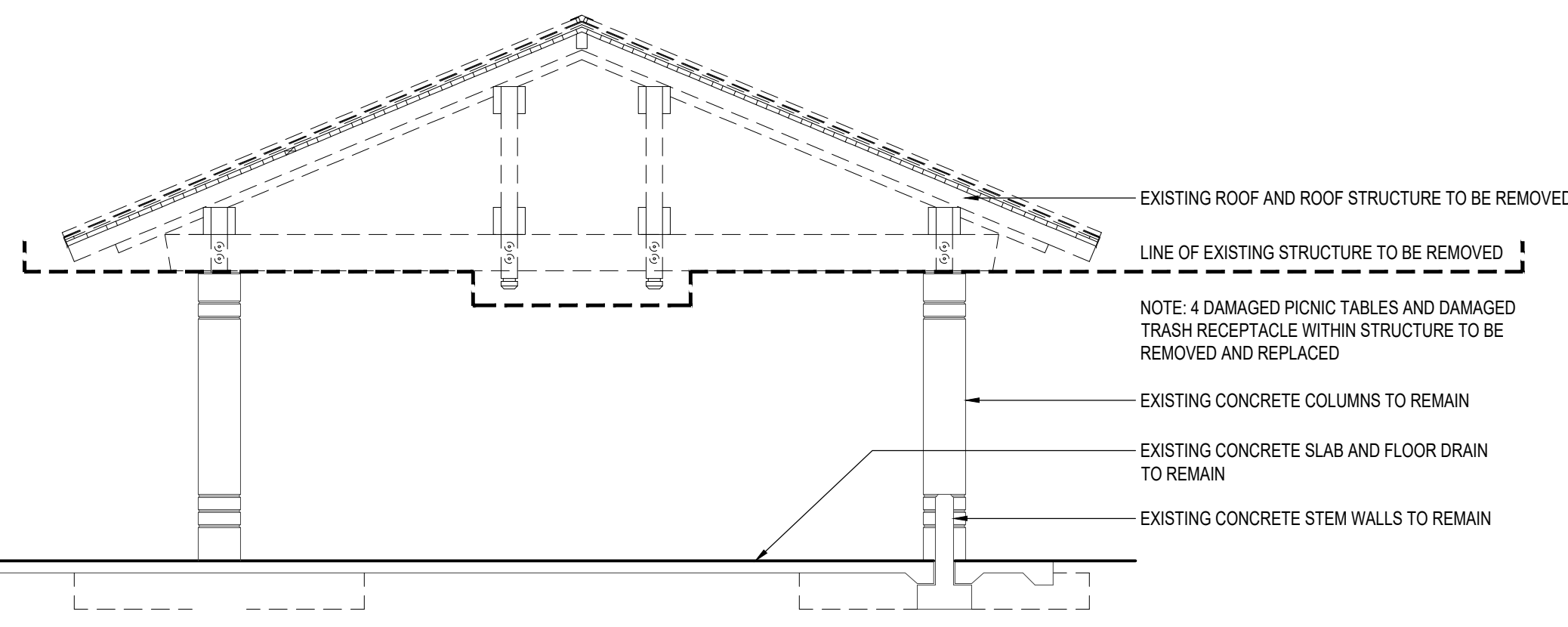
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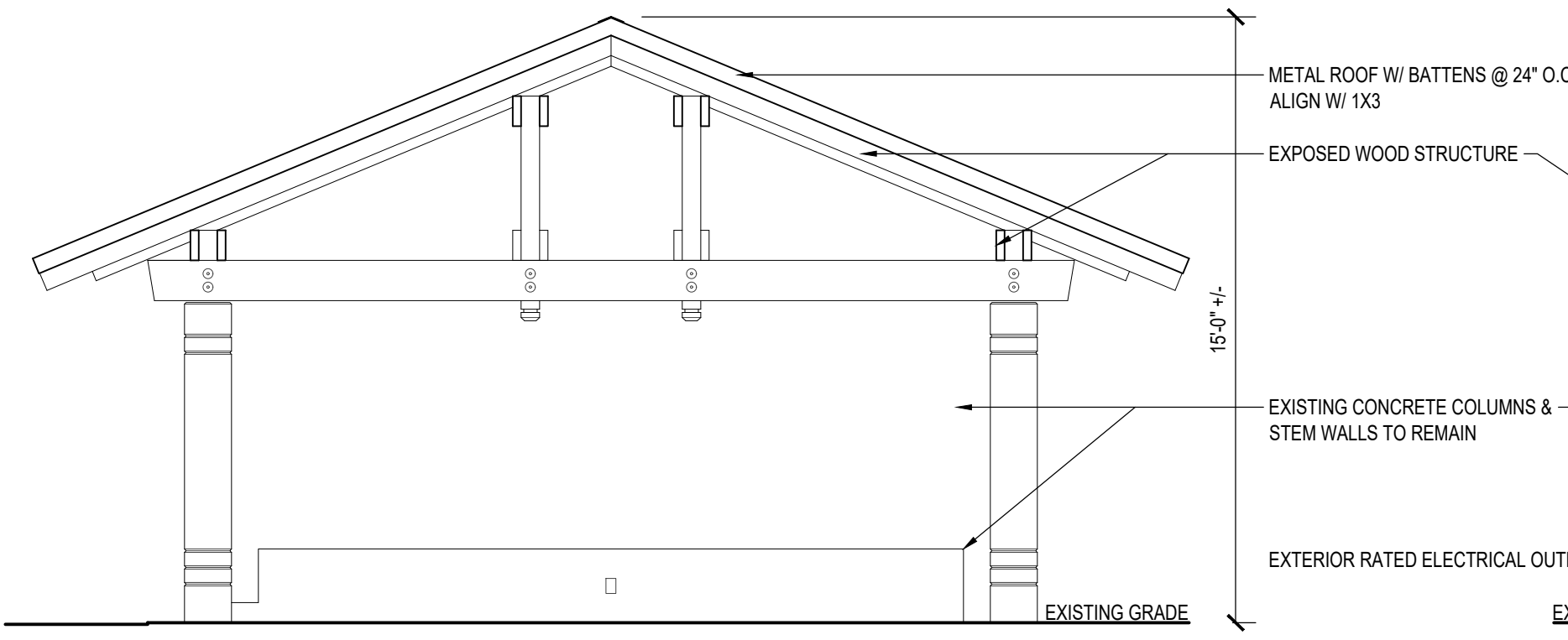
DEMO ELEV,  
 ELEVATION &  
 SECTIONS

A3.1

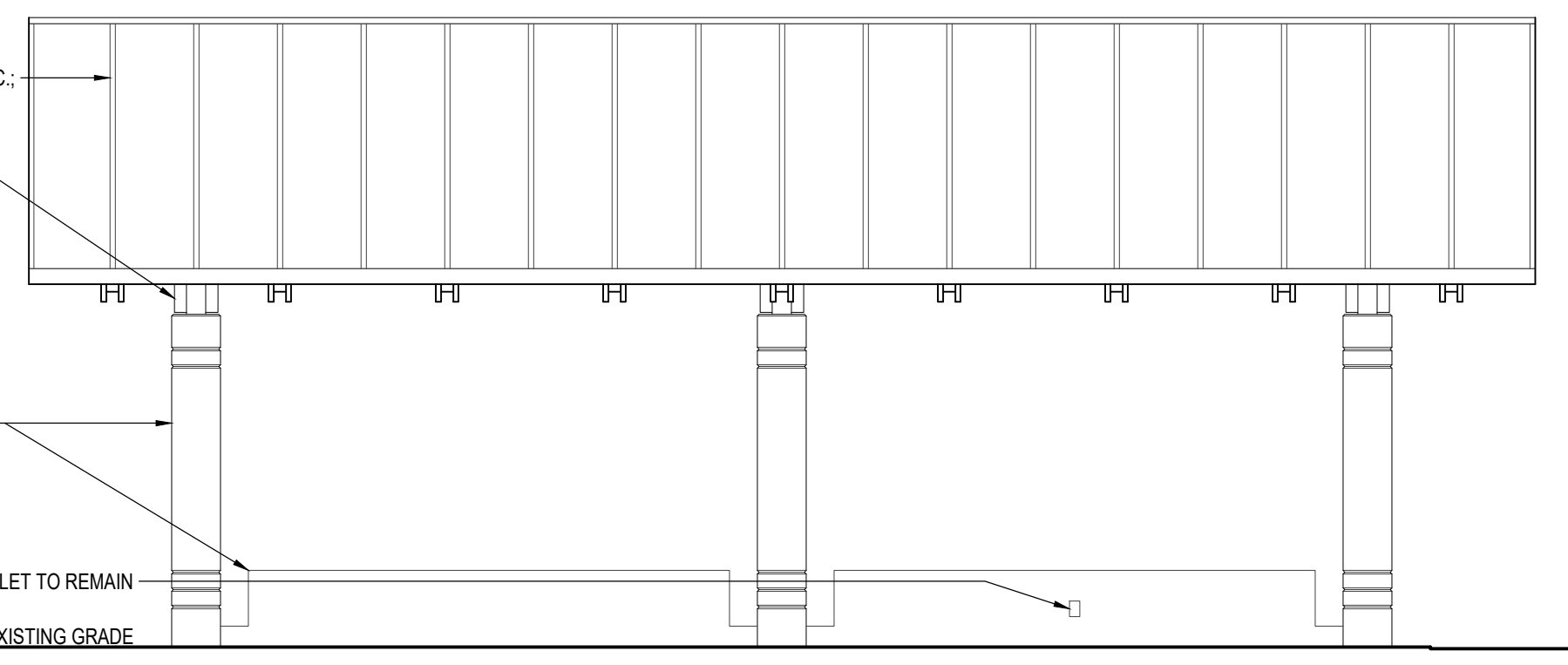
2/20/2018



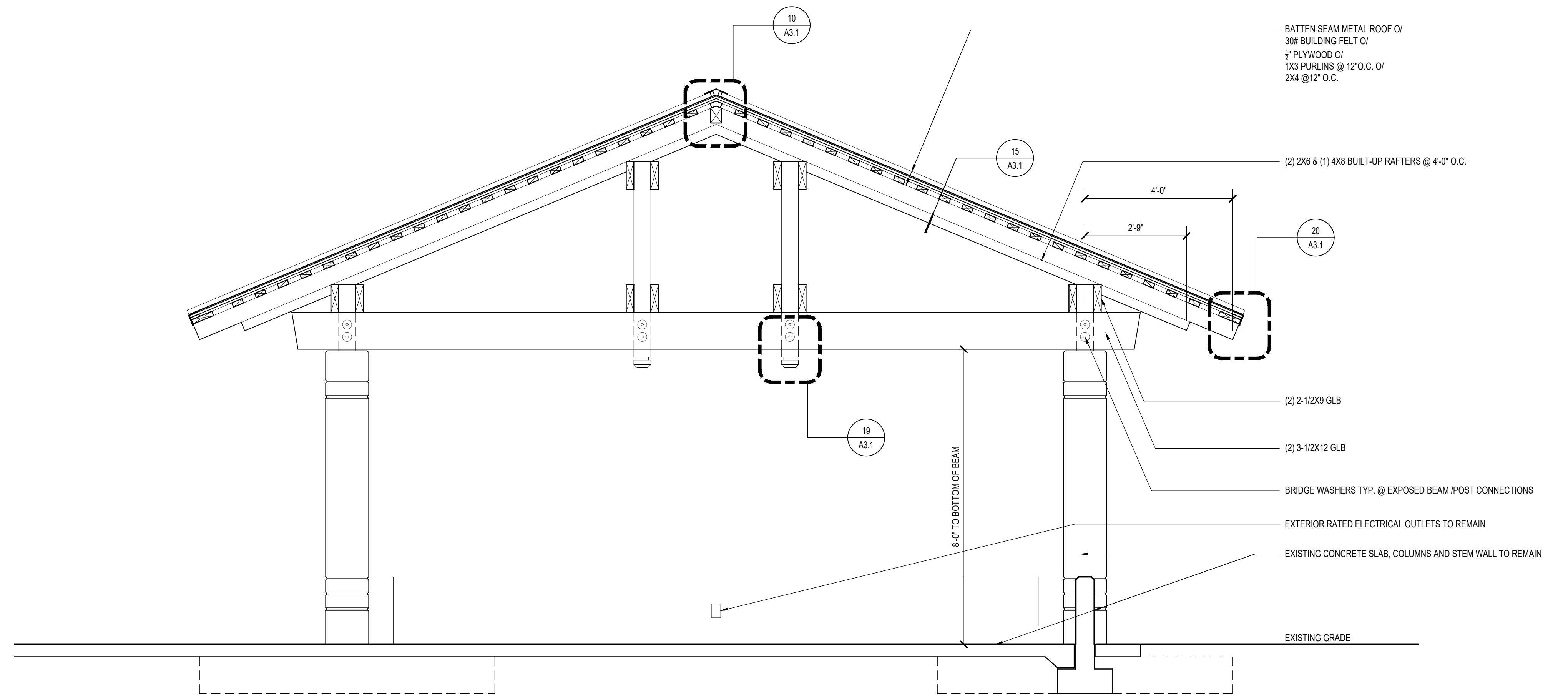
1 DEMOLITION ELEVATION  
 1/4" = 1'-0"



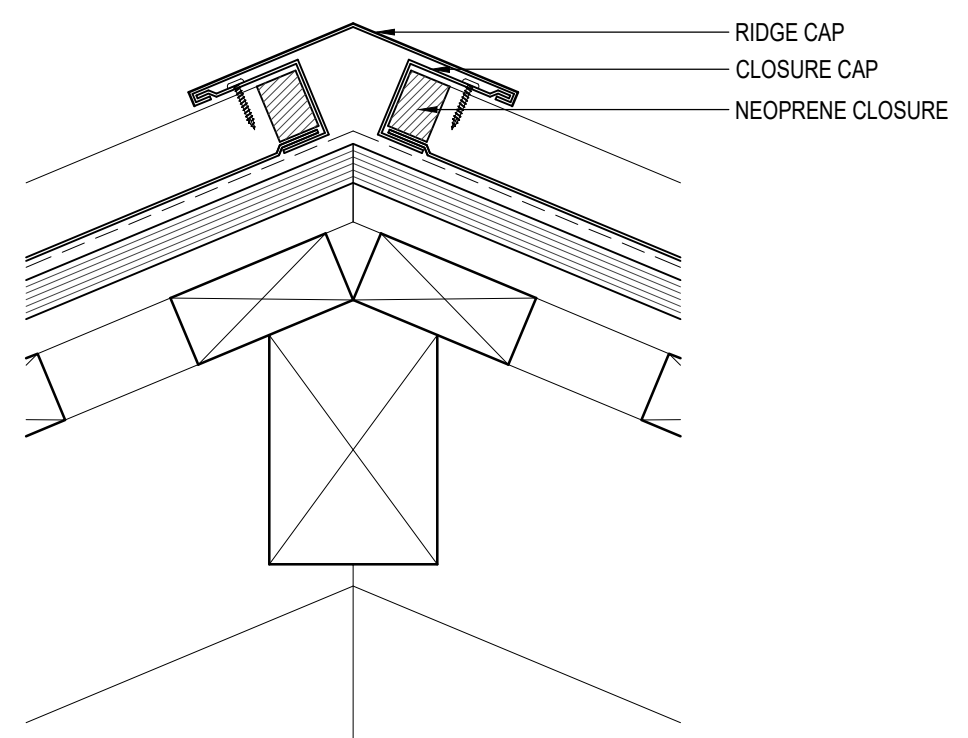
3 SOUTHEAST ELEVATION  
 1/4" = 1'-0"



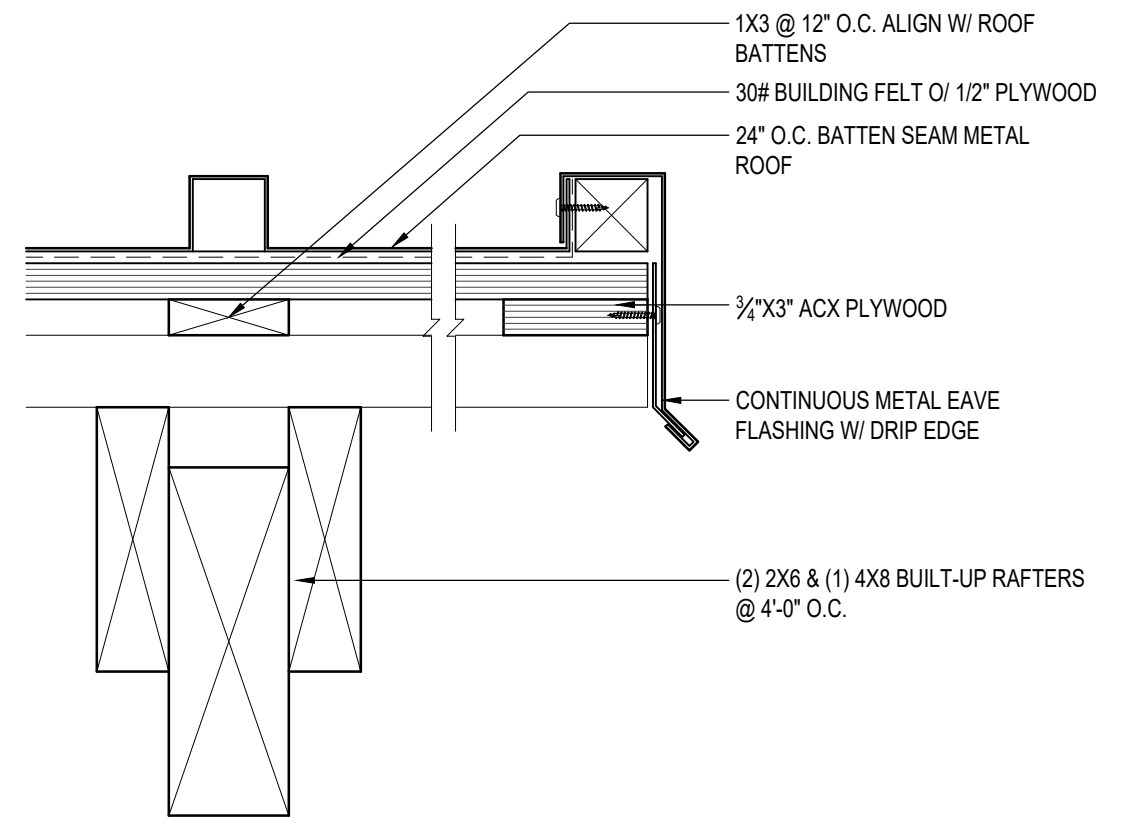
5 NORTHEAST ELEVATION  
 1/4" = 1'-0"



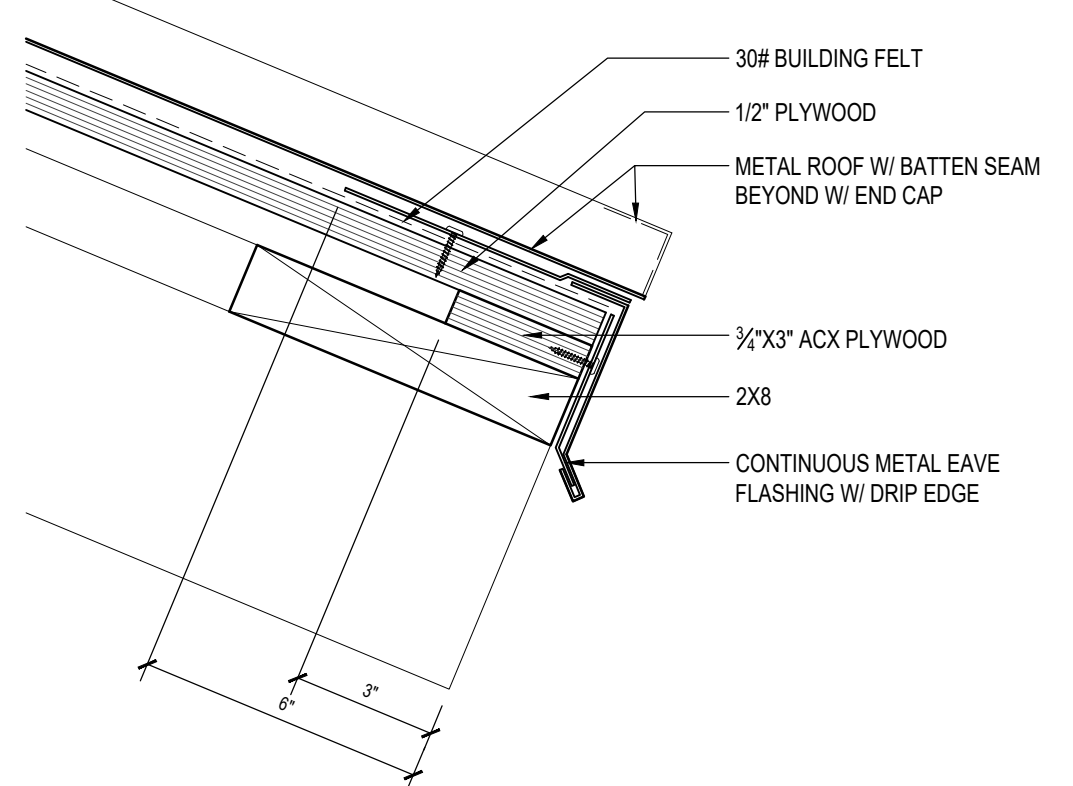
12 SECTION  
 1/2" = 1'-0"



10 RIDGE DETAIL  
 3" = 1'-0"

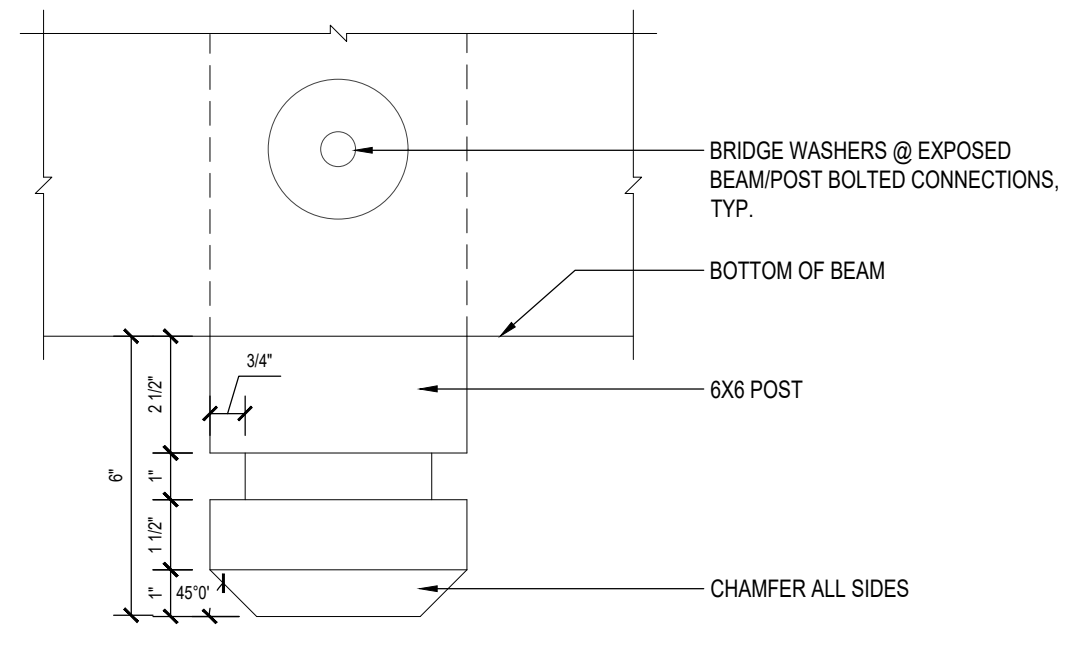


15 RAKE DETAIL  
 3" = 1'-0"



19 POST END DETAIL  
 3" = 1'-0"

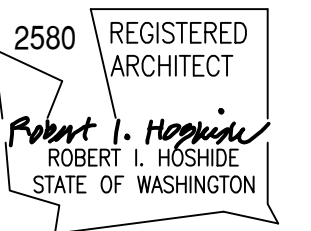
20 EAVE DETAIL  
 3" = 1'-0"



20 EAVE DETAIL  
 3" = 1'-0"



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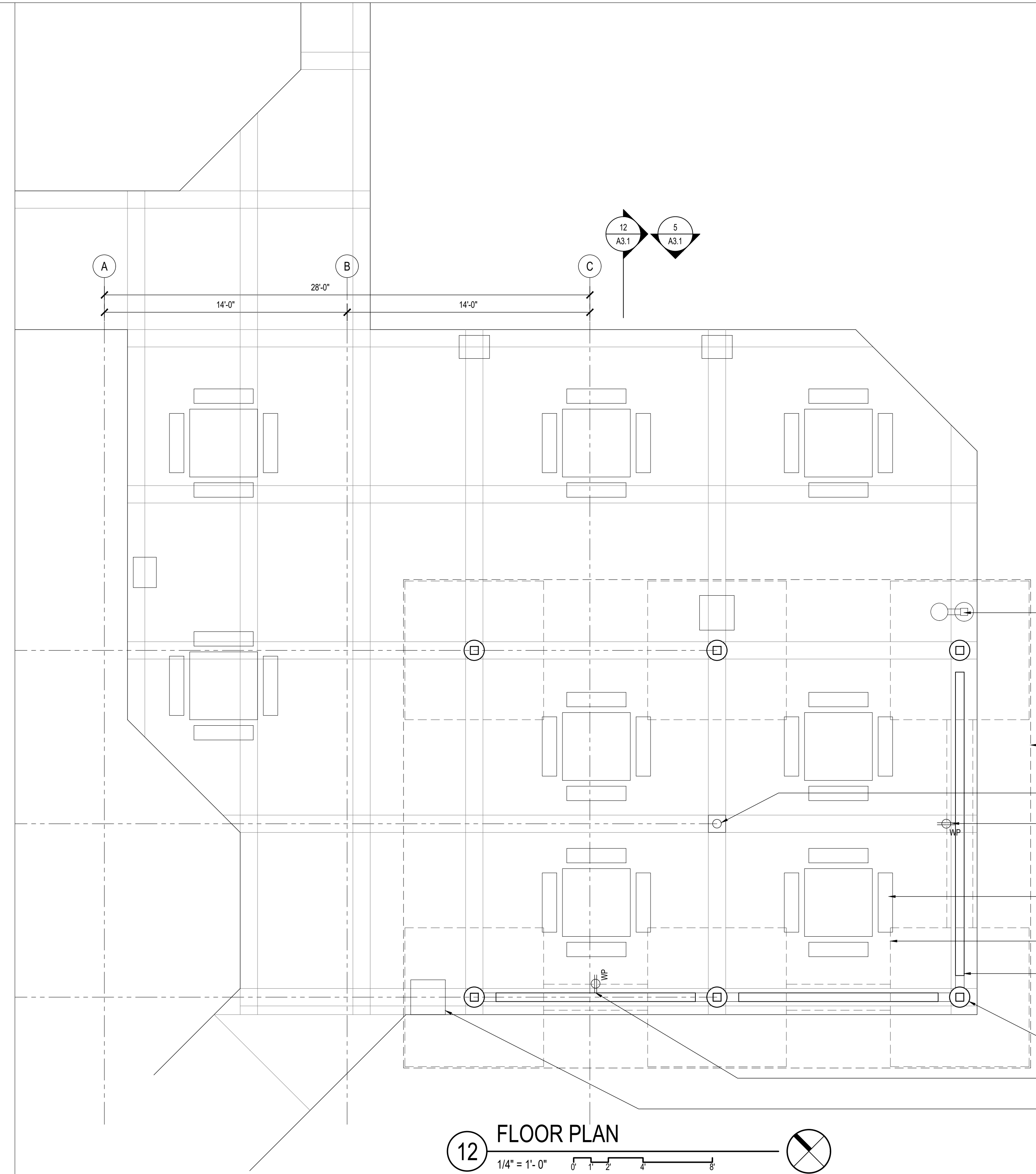
DRAWN BY: RK  
 CHECKED BY: BH  
 DATE: 02.01.22  
 REVISIONS:

BID SET

**FLOOR PLAN &  
 ROOF FRAMING  
 PLAN**

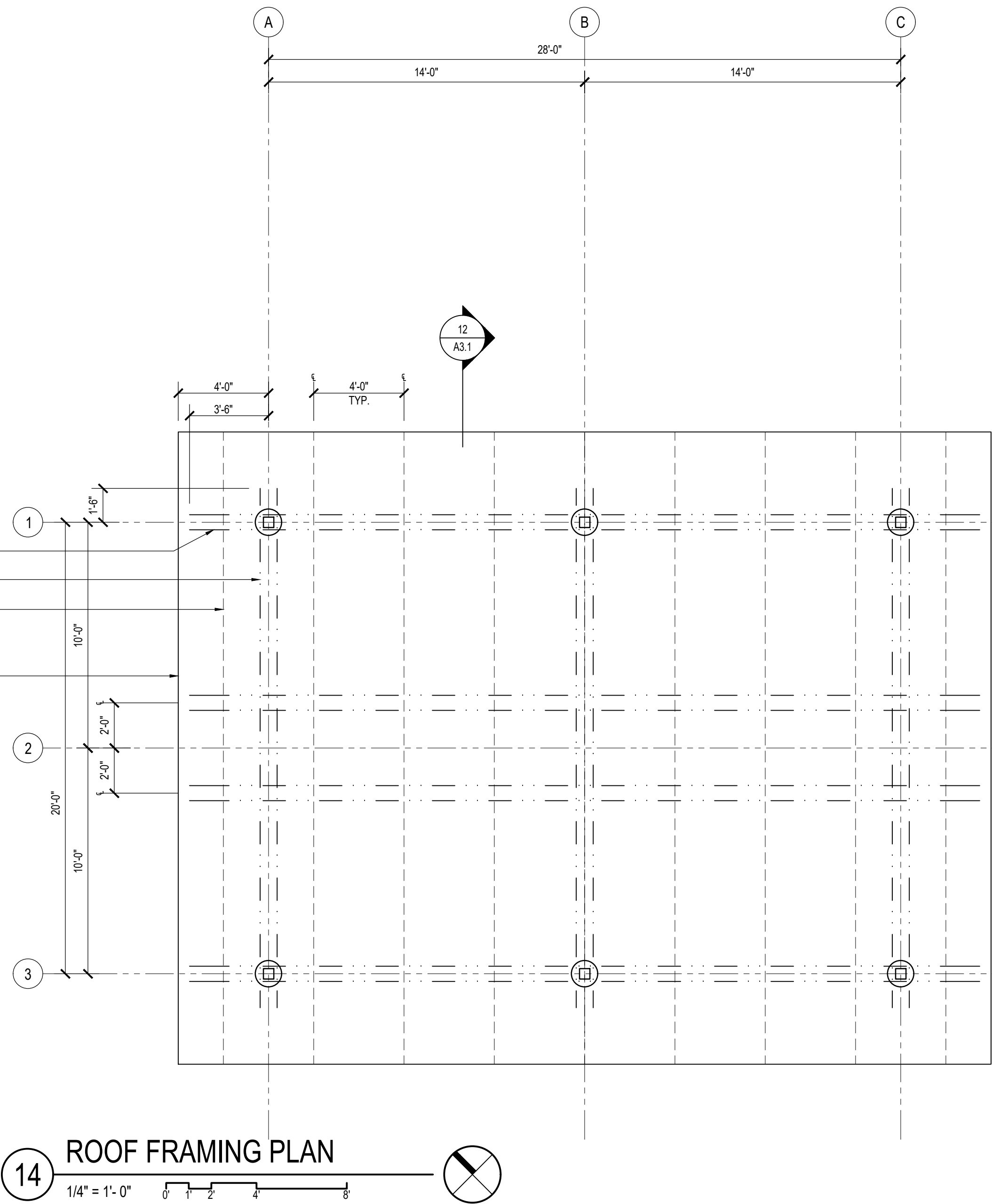
**A2.1**

2024/02/01



**12 FLOOR PLAN**  
 1/4" = 1'-0"  
 0 1 2 4 8

- EXISTING DRINKING FOUNTAIN TO REMAIN
- (2) 2-1/2 X 9 GLB
- (2) 3-1/2 X 12 GLB
- BUILT-UP 2x & 4x ROOF RAFTERS
- LINE OF ROOF ABOVE
- LINE OF ROOF EAVE
- EXISTING FLOOR DRAIN
- EXTERIOR RATED ELECTRICAL OUTLET TO REMAIN
- PICNIC TABLES TO BE REPLACED WHERE REQUIRED, MATCH EXISTING
- EXISTING CONCRETE SLAB AND FOUNDATIONS TO REMAIN
- EXISTING CONCRETE STEM WALLS TO REMAIN
- EXISTING CONCRETE COLUMNS TO REMAIN
- EXTERIOR RATED ELECTRICAL OUTLET TO REMAIN
- TRASH RECEPTACLES TO BE REPLACED WHERE REQUIRED, MATCH EXISTING

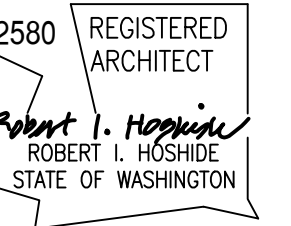


**14 ROOF FRAMING PLAN**  
 1/4" = 1'-0"  
 0 1 2 4 8



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### AUBREY DAVIS PARK PICNIC SHELTER

MERCER ISLAND, WA 98040

PROJECT DESCRIPTION:  
RECONSTRUCTION OF AN EXISTING PARK  
PICNIC STRUCTURE, PREVIOUSLY  
DESTROYED BY A FIRE.

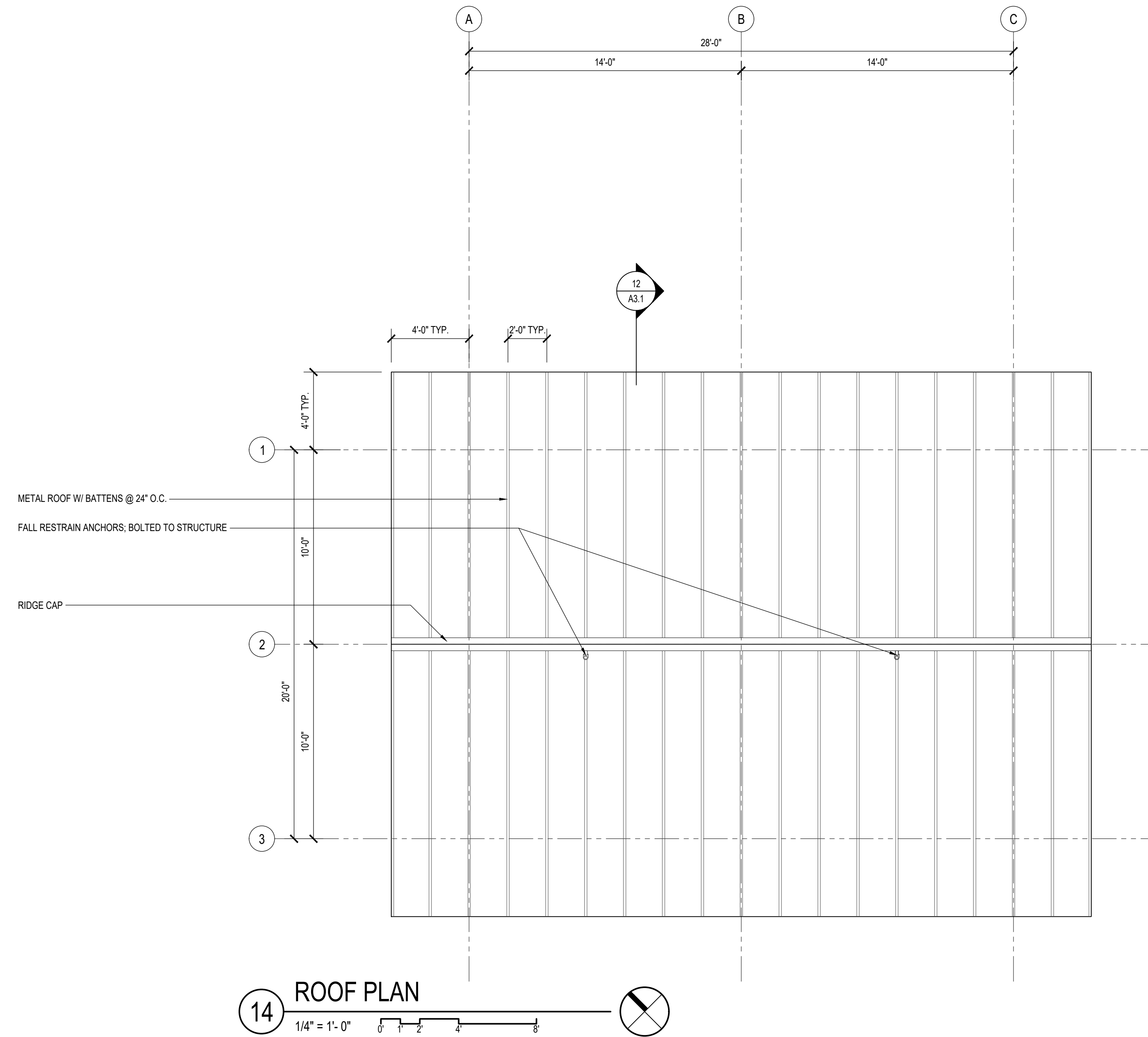
DRAWN BY: RK  
CHECKED BY: BH  
DATE: 02.01.22

REVISIONS:

BID SET

ROOF PLAN

# A2.2



## General Requirements

All materials, workmanship, design and construction shall conform to the 2018 International Building Code and local jurisdiction amendments.

Definitions: The following definitions are used throughout these structural notes:

IBC - Governing code including local amendments  
SER - Structural Engineer of Record per these Contract Documents  
UNO - Unless otherwise noted

Drawings indicate general and typical details of construction. Typical details and general notes shall apply even if not specifically denoted on plans, UNO. Where conditions are not specifically indicated similar details of construction shall be used, subject to review and approval by the Architect and the SER.

Reference to ASTM and other standards shall refer to the latest edition designated by IBC Chapter 35. Refer to the specifications for information in addition to that covered by these structural notes and drawings.

Warranty: The SER has used that degree of care and skill ordinarily exercised under similar circumstances by members of the profession in this locale and no other warranty, either expressed or implied, is made in connection with rendering professional services.

## Design Criteria

BUILDING CATEGORY: Structural Occupancy Category II

Importance factors for snow, wind and seismic are listed with the loading criteria.

LIVE LOADS:

Roof: Snow load, Pf = 25 psf

LATERAL LOADS-WIND: Per ASCE 7-16, Section 27.3.2  
Iw = 1.0; Kzt = 1.30; V = 62.8 kips (N-S), 21.7 kips (E-W)

Numbering below is per IBC Section 1603.1.4:

1. Basic Wind Speed (3-second gust) = 110 mph
2. Importance Factor = 1.0
3. Exposure = C
4. Components and Cladding per ASCE 7-16, Section 30.7:  
31.0 psf downwards at windward roof  
23.4 psf upwards at leeward roof

LATERAL LOADS-EARTHQUAKE: Per ASCE 7-16, Chapter 11 & IBC 1613

Numbering below is per IBC Section 1603.1.5:

1. Importance Factor = 1.0
2. Mapped Spectral Response Accelerations, Ss = 1.385 g; S1 = 0.482 g
3. Site Class = D; Fa = 1.000, Fv = 1.818
4. Spectral Response Coefficients, Sds = 0.923 g, Sd1 = 0.584 g
5. Seismic Design Category = D
6. Basic Seismic Force Resisting System is:  
Vertical Elements = Ordinary Reinforced Cantilevered Concrete Columns  
Diaphragms = Wood Structural Panel Diaphragms
7. Design Base Shear = 9.9 kips
8. Seismic Response Coefficient Cs = 0.923
9. Response Modification Factor R = 1.0
10. Analysis Procedure = Equivalent Lateral Force Procedure

Additional Items:

Building Location 47,592 N, 122,243 W  
Building Height = 15 feet

Redundancy Factors:

North/South Direction = 1.0 East/West Direction = 1.0

## Contractor Execution Requirements

Contractor shall verify all dimensions and all conditions at the job site, including building and site conditions before commencing work, and be responsible for same. All discrepancies shall be reported to the Architect/SER before proceeding with work. Any errors, ambiguities and/or omissions in the contract documents shall be reported to the Architect/SER immediately, in writing. No work is to be started before correction is made.

Contractor shall coordinate all dimensioned openings and slab edges shown on the contract documents. Some dimensions, openings and embedded items are shown on the structural drawings, others may be required. Refer to architectural drawings for all dimensions, architectural treatment, embeds required for architectural items, etc. Refer to mechanical, plumbing, electrical, fire protection and civil drawings for size and location of all openings for ducts, piping, conduits, etc.

Do not scale drawings. Use only field verified dimensions. The published paper documents are the controlling Contract Documents. Electronic files of detail sheets and notes will not be provided.

Contractor initiated changes shall be submitted in writing to the Architect/SER for review and acceptance prior to fabrication/construction. Changes shown on shop drawings only will not satisfy this requirement.

The contractor shall provide temporary bracing as required until all permanent connections have been installed. The contractor is responsible for the strength and stability of all partially completed structures including but not limited to concrete or masonry walls, steel framing and erection aids. The contractor shall at his discretion employ the aid of a licensed structural engineer to design all temporary bracing and shoring necessary to complete the work described in these contract documents. The contractor shall be responsible for all required safety standards, safety precautions and the methods, techniques, sequences or procedures required in performing his work. For concrete construction refer to IBC 1906.2 "Removal of Forms, Shores, and Reshores".

The contractor shall coordinate with the building department for all building dept. required inspections.

Contract Documents and any materials used in preparation of them, including calculations, are the exclusive property of the SER and can be reproduced only with the permission of the SER.

## Submittals

Shop drawings and material submittals shall be submitted to the Architect and SER prior to any fabrication or construction for the following structural items. Submittals shall include one reproducible and one copy; reproducible will be marked and returned. If deviations, discrepancies, or conflicts between shop drawings submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the SER, the Contract Documents control and shall be followed.

\* Engineered wood beams (certificates to be on-site and available upon request)

## Structural Steel

### Reference Standards

Steel construction shall conform to the latest editions of the AISC Specifications and Codes. "Specification for Structural Steel Buildings" ANSI/AISC 360 (latest edition), and "Code of Standard Practice for Steel Buildings and Bridges" AISC 303 (latest edition) amended by the deletion of paragraph 4.4.1.

### Fabricators

Fabricators for structural steel must have a quality assurance program in place. The quality assurance program must meet the requirements of one of the following methods:

- A. Participation in the AISC quality certification program.
- B. Meeting the requirements of AISC seismic provisions for structural steel buildings, appendix Q and submitting plan documentation to the authority having Jurisdiction, the engineer of record, and the owner or owner's designee. Where applicable the requirements set forth in the quality assurance requirements for wind and seismic under the criteria section of the general notes should be included in the selected method.

### Architecturally Exposed Structural Steel

Steel members exposed to view in the final building, shall meet the requirements of Section 10 of the AISC Code of Standard Practice. This criteria does not apply to steel members in mechanical, electrical and storage rooms.

### Structural Steel Members

Structural Steel shall conform to the following requirements (unless otherwise shown on plans):

Type of Member	ASTM Specification	Fy
Plates, Channels, Angles	A-36, Grade 36	36 ksi
Washers	F-436	
Hex Nuts	A-563	
Common Bolts	A-307, Grade A	

### Bolts

All bolt holes shall be standard size, unless otherwise noted. All ASTM A-307 bolts shall be provided with lock washers under nuts or self-locking nuts.

### Shop Painting

All steel to be shop primed. Steel fire proofed or encased with concrete need not be painted. All other steel shall be given one coat of shop paint, in accordance with Section 1.24 of the AISC "Specification" and Section 6.5 of the AISC "Code", unless noted otherwise. The surface preparation of the structural steel prior to painting shall be in accordance with the specific paint manufacturer's published recommendations. Structural joints and faying surfaces which are to be connected by means of welds or bolts shall not be painted until all welds and bolts are installed, inspected and approved.

### Finishing

The terms finish, finish column, finishing, milled, milled surface or milling are intended to include surfaces which have been accurately sawed or finished to a true plane as defined by AISC. Grind surface value equal to or less than 1,000 as defined by ANSI B46.2 (4-inch and thinner).

## Wood

### Material Criteria

Framing lumber shall be kiln dried or mc-19 (unless more stringent criteria are required in these notes or on the drawings) and graded and marked in conformance with the latest WCLIB standard grading rules for west coast lumber no. 17. Furnish to the following minimum standards:

4x beams & posts, 6x posts	DF #2
2x joists, rafters, built-up beams, headers	HF #2
2x, 3x flatwise & edgewise blocking	HF standard

### Moisture Content and Care of Material During Construction

All 2x studs and plates shall be kiln dried. The Contractor shall take measures to minimize exposure of sawn lumber and engineered wood products to moisture during construction. Excessive changes in moisture content during construction may result in swelling and shrinkage of a single story level in the magnitude of 1/2".

### Wood Structural Panels

Wood structural panels shall be APA rated sheathing. Plywood shall be grade C-D or Structural II, exterior glue, exposure 1 durability classification, in conformance with USDOC PS 1 or PS 2, ASTM D 5457 and IBC 2304.7 and table 2304.7(2). See plans for thickness, panel identification index and nailing requirements. Unless otherwise noted on plans:

Roof sheathing shall be 15/32" with span rating  $\frac{3}{8}$ "

### Glu Laminated Material

Glued laminated members shall be fabricated in conformance with AITC 117 and APA-EWS Y117, Stress Class 24F-1.8E. Each member shall bear an AITC identification mark and shall be accompanied by an AITC certificate of conformance. All simple span beams shall be douglas fir combination 24F-V4, f b = 2,400 psi, fv = 265 psi and all cantilevered beams and columns shall be Douglas fir combination 24F-V8, f b = 2,400 psi, fv = 265 psi unless otherwise noted. Camber all simple span glu laminated beams to 3,500 radius or zero camber, unless shown otherwise on the plans.

### Treated Wood

All wood framing in direct contact with concrete or masonry, exposed to weather, or that rest on exterior foundation walls and are located within 8" of earth, shall be pressure-treated with an approved preservative per IBC section 2303.1.8. Cut or drilled sections of treated material shall be treated with an approved preservative per IBC section 2303.1.8. See IBC section 2304.11 for additional requirements.

### Metal Products in Contact with Treated Lumber

Simpson hardware in contact with ACQ, CA, or CBA pressure-preservative treated wood shall have a Zmax finish (G185 HDG per ASTM A653) or shall be post hot-dip galvanized (per ASTM A123 for connectors and ASTM A153 for fasteners) unless otherwise noted. Exception: type 304 or 316 stainless steel connectors and fasteners are required for the following applications:

- ACQ, CA, or CBA treatments with ammonia where members are used in exterior applications.
- all ACZA treatments
- retention levels greater than 0.40 pcf for ACQ, 0.41 pcf for CBA-A, or 0.21 pcf for CA-B treatments.

### Framing Connectors

Timber connectors called out by letters and numbers shall be "strong-tie" by Simpson company, as specified in their catalog number C-C-2021. Equivalent devices by other manufacturers may be substituted, provided they have ICBO approval for equal or greater load capacities. Provide number and size of fasteners as specified by manufacturer. Connectors shall be installed in accordance with the manufacturer's recommendations. Where connector straps connect two members, place one-half of the nails or bolts in each member. All bolts in wood members shall conform to ASTM A307. Provide washers under the heads and nuts of all bolts and lag screws bearing on wood.

### Fasteners

Shall conform to the following requirements, UNO. Splitting shall be avoided at all wood fasteners:

Steel to wood or wood to wood connection bolts	ASTM A307
Anchor rods (w/ threaded ends and welded nut at end)	ASTM F1554 grade 36 (typical UNO)
Lag screws	NDS section 11.1.3
Wood screws	NDS section 11.1.4
Nails	NDS section 11.1.5

Nail sizes are specified as follows. If the contractor proposes the use of alternate nails, they shall submit nail specifications to the Structural Engineer of Record (prior to construction) for review and acceptance.

roof sheathing	typical	0.131 x 2-3/8"
member to member face nailing	typical UNO	0.131 x 3"
toe nailing	typical UNO	0.131 x 3"

Sheathing fasteners shall be driven so that head or crown is flush with sheathing surface. 3/8" min. edge distance shall be maintained on sheathing fasteners.

Spaced fasteners specified on the drawings shall begin at 1/2 specified spacing from the ends of the members, unless otherwise noted. Provide (2) fasteners minimum each member, typ.

Thru-bolt and anchor rod holes shall be at least 1/32" but no more than 1/16" larger than bolt/rod diameter.

Fasteners exposed to earth, weather or located in pressure preservative or fire retardant treated wood shall comply with the criteria listed in the "Metal Products in Contact with Treated Lumber" section.

### General Wood Framing Criteria (UNO in previous sections)

All wood framing details not shown otherwise shall be constructed to the minimum standards of section 2308 of the IBC. Minimum nailing, unless otherwise noted, shall conform to table 2304.9.1 of the IBC. Unless otherwise noted, all nails shall be common. Coordinate the size and location of all openings with Mechanical and Architectural drawings. Provide washers under the heads and nuts of all bolts, anchor rods, and lag screws bearing on wood, unless otherwise noted. Installation of lag screws shall conform to NDS section 11.1.3. Bolts, anchor rods, and lag screws shall be centered in members, unless otherwise noted.

Unless otherwise noted on the plans, APA sub-flooring and roof sheathing shall be laid up with grain (strength axis) perpendicular to supports (joists, trusses, etc.) and in a staggered pattern. Nails shall be @ 6"oc to framed panel edges, @ 4"oc over shear walls and @ 12"oc to intermediate supports. See notes above for nail sizes. Solid blocking/framing is required at panel edges of roof framing supporting a TPO roof or similar. Plywood clips are allowed in lieu of blocking at unsupported panel edges of roof framing supporting composite, asphalt shingles. Allow 1/8" gap at all panel edges and ends of floor and roof sheathing.

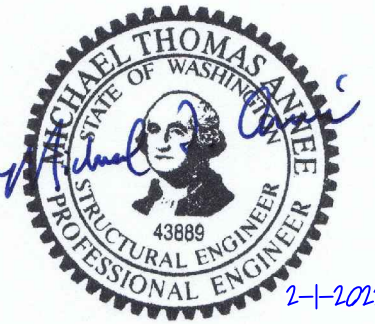


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ANNÉE STRUCTURAL ENGINEERING, LLC



AUBREY DAVIS  
PARK  
PICNIC SHELTER

MERCER ISLAND, WA 98040

PROJECT DESCRIPTION:  
RECONSTRUCTION OF AN EXISTING PARK  
PICNIC STRUCTURE, PREVIOUSLY  
DESTROYED BY A FIRE.

DRAWN BY: MTA

CHECKED BY: MTA

DATE: 02.01.2022

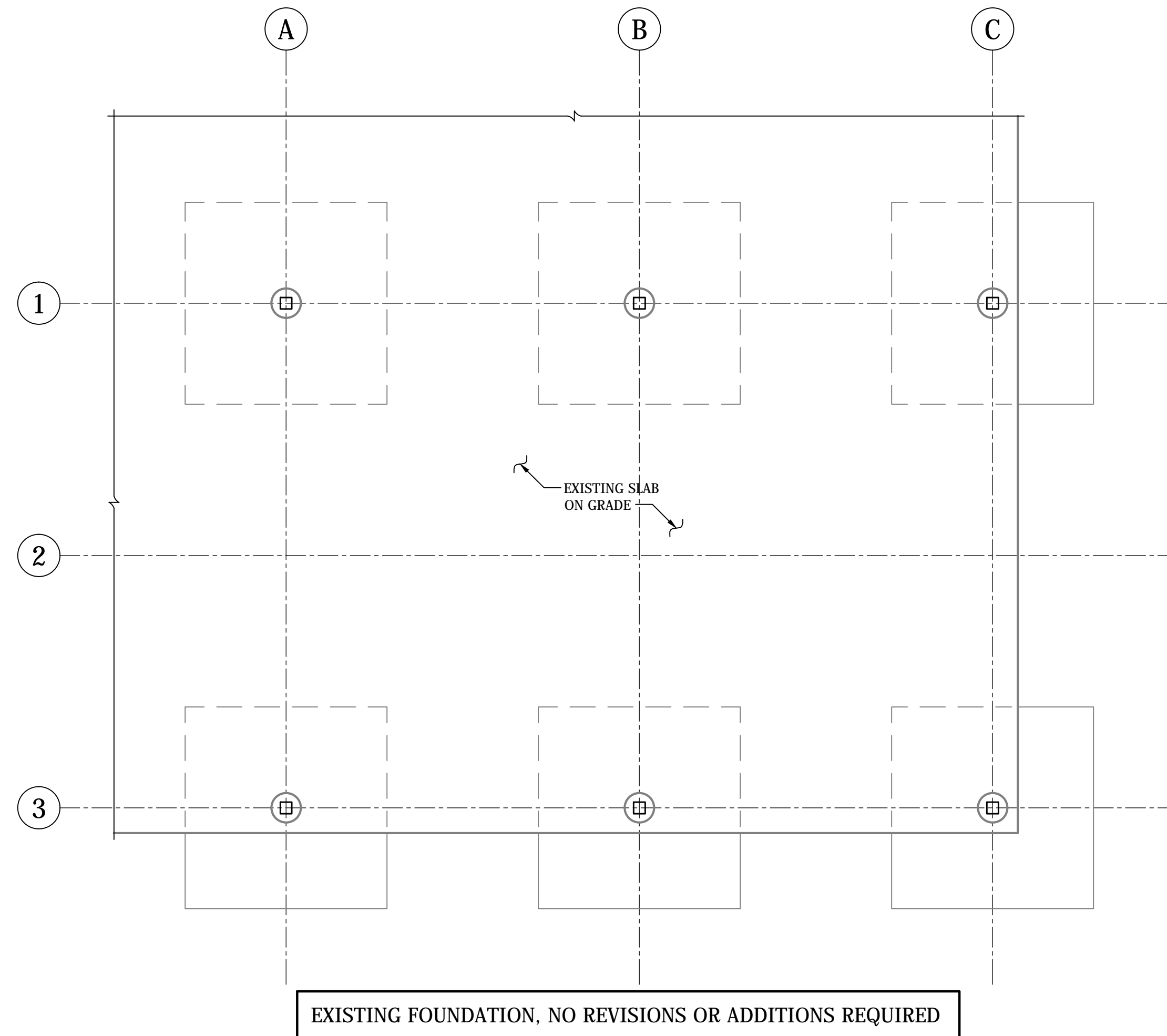
REVISIONS:

BID SET

GENERAL  
STRUCTURAL  
NOTES

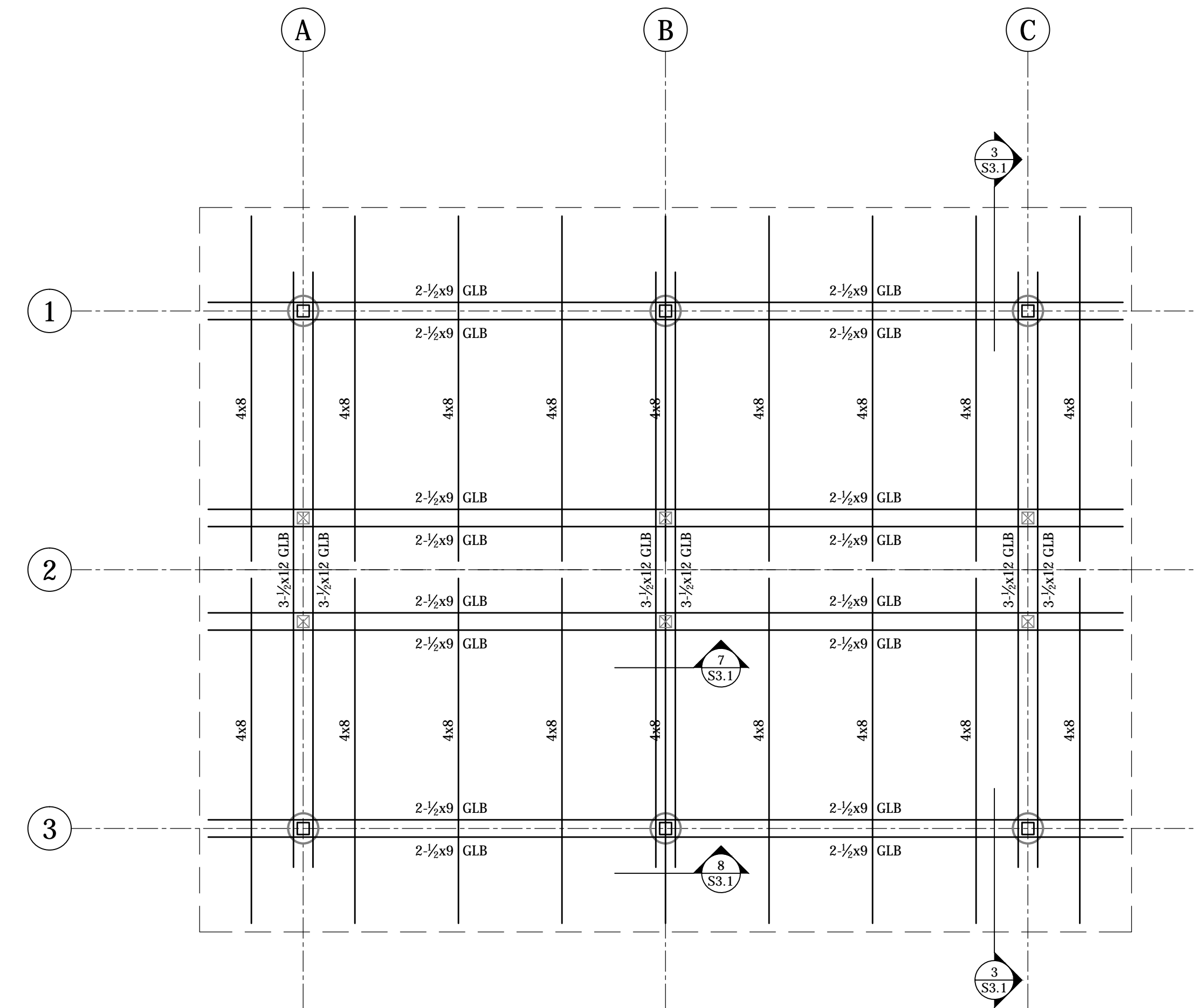
S1.1

GENERAL STRUCTURAL NOTES  
(TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS)



**Existing Foundation Plan**

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



**Roof Framing Plan**

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



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DRAWN BY: MTA

CHECKED BY: MTA

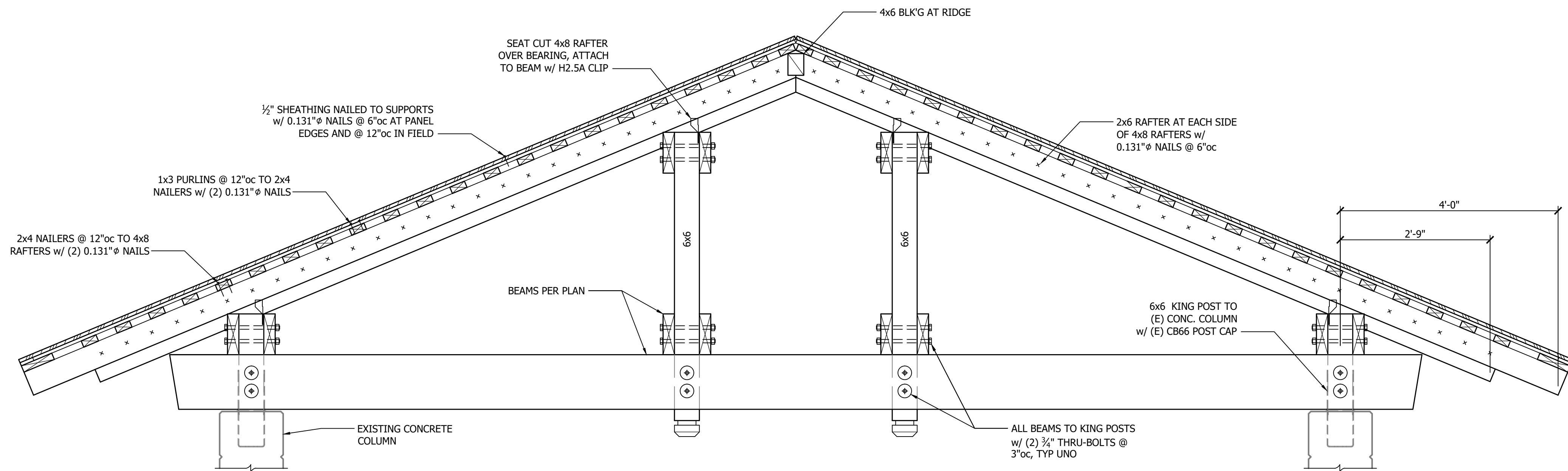
DATE: 02.01.2022

REVISIONS:

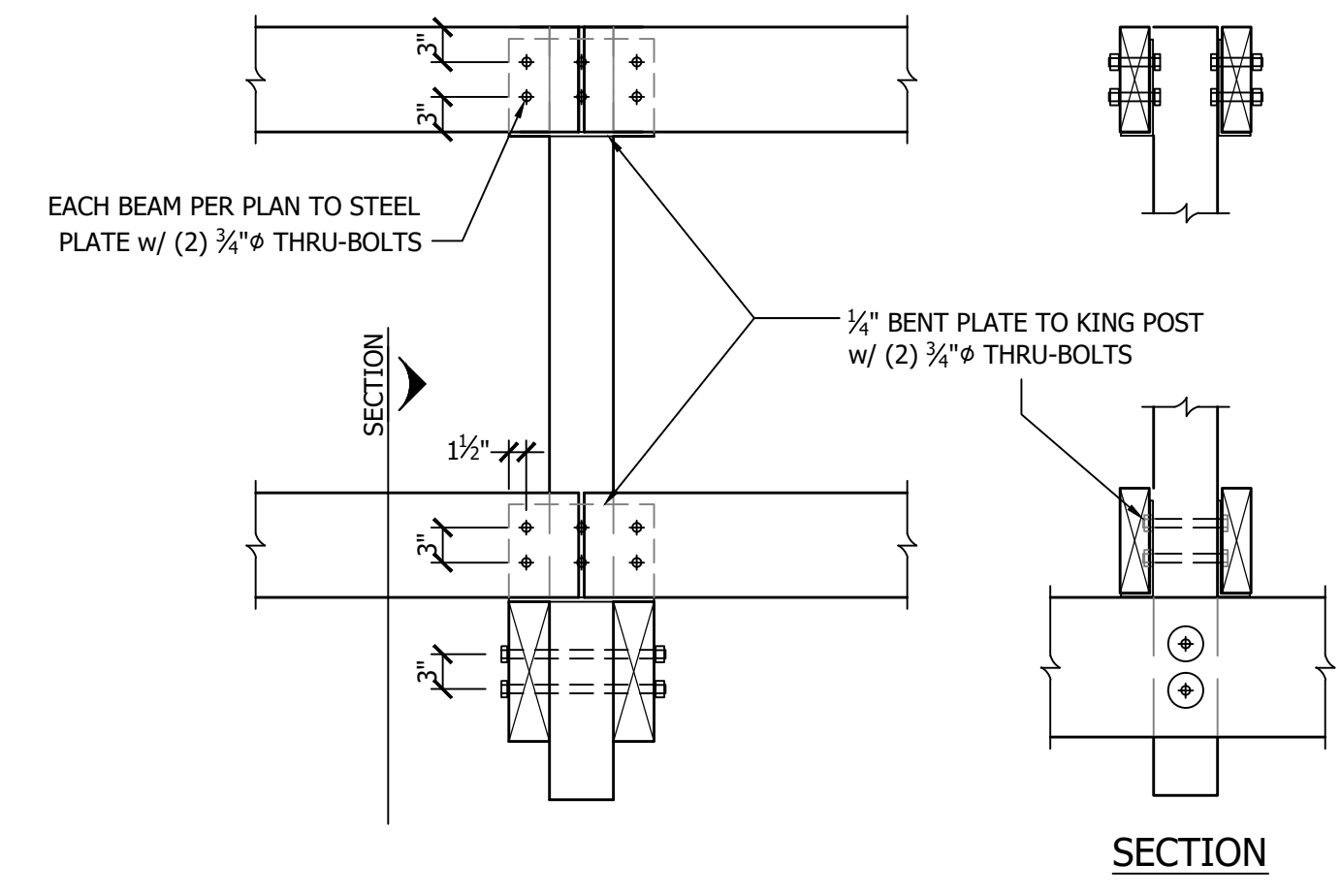
BID SET

FOUNDATION  
PLAN & ROOF  
FRAMING PLAN

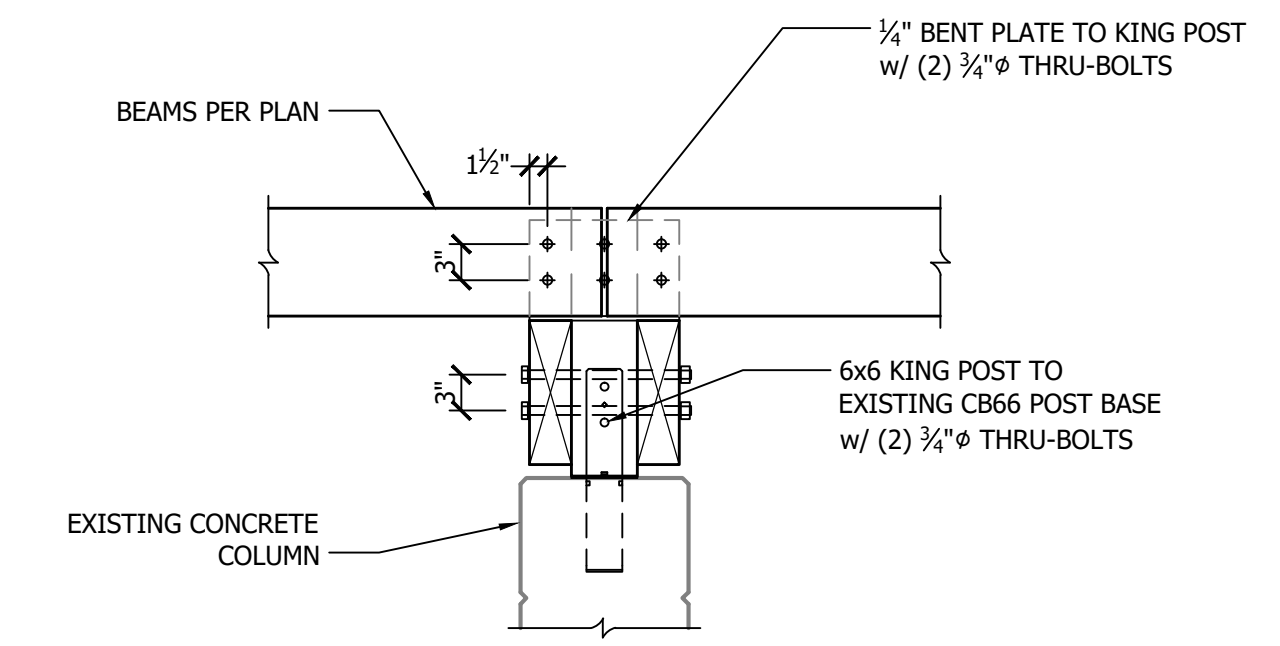
S2.1



2 Timber Framing at Roof  
3/4" = 1'-0"



7 Beams at Interior King Post  
3/4" = 1'-0"



8 Beams to Existing Column  
3/4" = 1'-0"