## **CODES AND REFERENCES:**

2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), WITH STATE OF WASHINGTON AND CITY OF TACOMA AMENDMENTS AND SUPPLEMENTED WITH ASCE 7-16.

ALL CODE REFERENCES HEREAFTER SHALL CORRESPOND TO THE FOLLOWING EDITIONS, U.N.O.:

MATERIAL CODE EDITION CONCRETE

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-14. ACI SP-066-04 ACI DETAILING MANUAL.

STRUCTURAL STEEL 15TH EDITION OF STEEL CONSTRUCTION MANUAL (AISC SCM) INCLUDING THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 360-16. STRUCTURAL WELDING CODE -STEEL, AWS D1.1-20. STRUCTURAL STEEL WELDING 2018 NATIONAL DESIGN SPECIFICATION, NDS.

WOOD (LATERAL) SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC SDPWS-15.

# LOADS:

RISK CATEGORY = II.

CONCRETE REINFORCING

ROOF DESIGN SNOW LOAD = 25 PSF. SUPERIMPOSED DEAD LOAD ON ROOF TRUSSES AND JOIST (EXCLUDING TRUSS WEIGHT) = 16 PSF. (10 PSF TOP CHORD / 6 PSF BOTTOM CHORD)

TOTAL ROOF DEAD LOAD = 20 PSF. TOTAL ROOF DEAD LOAD AT MECHANICAL WELL = 35 PSF.

ROOF TRUSSES AND JOISTS SHALL BE DESIGNED FOR A FUTURE MECHANICAL EQUIPMENT LOAD OF 300 LB AT ANY PANEL POINT LOCATION.

FLOOR LIVE LOAD = 50 PSF. FIRST FLOOR CORRIDOR/STAIR LIVE LOAD = 100 PSF (REDUCIBLE). CORRIDOR ABOVE FIRST FLOOR LIVE LOAD = 80 PSF. PARTITION LIVE LOAD = 20 PSFPARTITION LOAD = 10 PSF (FOR SEISMIC ONLY). FLOOR DEAD LOAD = 16 PSF.

## OTHER ELEMENTS:

PARTITION WALLS EXCEEDING 6'-0"IN HEIGHT SHALL BE DESIGNED FOR 5 PSF LATERAL LOAD.

HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO RESIST 50 PLF OR 200 LB CONCENTRATED LOAD ANYWHERE ALONG THE TOP RAIL.

WIND SPEED = 97 MPH, EXPOSURE B. Kzt=1.38 (PER TACOMA DART MAP)

# IMPORTANCE FACTOR Ie = 1.0.

LATITUDE = 47.249; LONGITUDE = -122.533. Ss = 1.385, S1 = 0.481, SEISMIC SITE CLASS = C.

Sds = 1.108, Sd1 = 0.481, SEISMIC DESIGN CATEGORY = D. SEISMIC-FORCE-RESISTING SYSTEM: BEARING WALL SYSTEM WITH LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE. SEISMIC RESPONSE COEFFICIENT, Cs = 0.170.

RESPONSE MODIFICATION FACTOR, R = 6 1/2. ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE.

## FOUNDATIONS:

GEOTECHNICAL REPORT SUPPLIED BY GEOENGINEERS; FILE 3161-005-01 DATED SEPTEMBER 1, 2023.

SPREAD AND CONTINUOUS FOOTINGS SHALL BEAR ON FIRM. UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL 18" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5'-0" FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 2,500 PSF. REFER TO GEOTECTINCAL REPORT FOR ADDITIONAL INFORMATION PRIOR TO COMMENCEMENT OF EARTH WORK. PRIOR TO PLACEMENT OF CONCRETE GEOTECTINCAL ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS.

# CONCRETE:

MINIMUM 28-DAY STRENGTH OF CONCRETE SHALL BE 3,000 PSI.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. MAXIMUM SLUMP IS 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. MAXIMUM WATER/CEMENT RATIO (W/C) SHALL BE 0.47 FOR GENERAL CONCRETE. AND 0.42 FOR SLABS. USE 1 1/2" MINUS COARSE AGGREGATE FOR CONCRETE 6" THICK AND GREATER; USE 3/4" MINUS COARSE AGGREGATE FOR THINNER SECTIONS. PROVIDE AIR ENTRAINMENT (5% ± 1%) IN CONCRETE EXPOSED TO FREEZE-THAW ACTION.

UNLESS APPROVED OTHERWISE IN WRITING BY THE ENGINEER, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY SAWCUT CONTROL JOINTS. CONSTRUCTION JOINTS OR EXPANSION JOINTS. AS SHOWN ON THE FOUNDATION PLAN. SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET.

# FLY ASH:

FLY ASH SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK.

# REINFORCING STEEL FOR CONCRETE:

USE ASTM A615, GRADE 60 (FY = 60 KSI), DEFORMED BARS FOR ALL BARS. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. ACI 318 SHALL APPLY. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE AND CORROSION.

REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS SHALL BE PER ACI SP-66. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS, U.N.O. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

# LAP SPLICES IN CONCRETE:

LAP SPLICES, U.N.O., SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318. STAGGER SPLICES A MINIMUM OF (1) LAP LENGTH.

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.

# REINFORCING STEEL COVER:

ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY	EXPOSED	TO EARTH:	 		<u></u>
EXPOSED TO EARTH OR WEATHER					
#6 OR LARGER · · · · · ·					
#5 AND SMALLER · · · · ·					
FLAT SLAB· · · · · · · · · · ·			 	· · · · · · · ·	3/4"
<b>ADAHESOVIEHEDFOWELES:</b> A.C.I. 318.					

ALL ADHESIVE DOWELS SHALL HAVE CURRENT ICC APPROVAL FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE, SUCH AS HILTI HY200V3 (ICC ESR-4868) AND SIMPSON AT-XP (1APMO UES ER-263) OR APPROVED

# FIBER REINFORCING:

FIBER-REINFORCED CONCRETE SHALL CONTAIN 1.5 POUNDS PER CY FIBERS SUCH AS "FIBERMESH 300" POLYPROPYLENE FIBRILLATED FIBERS BY PROPEX CONCRETE SYSTEMS, OR APPROVED EQUIVALENT. ADD TO CONCRETE MIX PER THE MANUFACTURER'S INSTRUCTIONS. FIBERS SHALL CONFORM TO ASTM C1116, TYPE III. ALL CONCRETE FLATWORK SHALL BE FIBER-REINFORCED.

## CONTROL JOINT FILLER:

METGER/MCGUIRE RS-88 OR PRE-APPROVED EQUIVALENT. INSTALL A MINIMUM OF 30 DAYS AFTER SLAB

# STRUCTURAL STEEL:

CONSTRUCTION SHALL BE PER AISC—SCM.

ALL WIDE FRANGE STEEL SHALL BE ASTM A572, GRADE 50, OR A992, GRADE 50 (FY = 50 KSI) ALL HSS STEEL SHALL BE ASTM A500 GRADE B (FY - 46 KSI) 

# BOLTS:

ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD, U.N.O. ALL BOLTS SHALL CONFORM TO ASTM A307, GRADE A, U.N.O.

### ANCHOR RODS:

ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, U.N.O.

ALL MISC STRUCTURAL STEEL SHALL BE ASTM A36, (FY = 36 KSI)

### EXPANSION BOLTS IN CONCRETE:

ALL EXPANSION BOLTS SHALL HAVE CURRENT ICC APPROVAL FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE, SUCH AS HILTI KWIK BOLT TZ2 (ICC ESR-4266) AND SIMPSON STRONG-BOLT 2 WEDGE ANCHOR (ICC ESR-3037) OR APPROVED EQUIVALENT. BOLTS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL.

### ADHESIVE ANCHORS IN CONCRETE:

ALL ADHESIVE ANCHORS SHALL HAVE CURRENT ICC APPROVAL FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE, SUCH AS HILTI HY200 V3 (ICC ESR-4868) AND SIMPSON AT-XP (IAPMO UES ER-263) OR APPROVED EQUIVALENT. THREADED RODS SHALL BE GALVANIZED OR STAINLESS STEEL.

### WELDING:

WELDERS HOLDING VALID W.A.B.O. CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES SHALL PERFORM ALL WELDING. CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TESTING AGENCY.

ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS, U.N.O. ALL WELDING SHALL BE PER LATEST AWS STANDARDS.

THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. ALL FULL/COMPLETE PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

## WOOD:

## SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE 2021 EDITION OF THE WESTERN LUMBER GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE THE FOLLOWING UNADJUSTED DESIGN MINIMUM

JOISTS:· ·																																
BEAMS: ·								•			•				•			· 4" V	WIDTH	ΘR	LE	ESS	, .					•			·H.F.	#2
							٠				٠				٠			· GRE	ATER	TH.	AΝ	4"	W	DT	Η٠						∙D.F.	#2
LEDGERS AN	ND TO	PΙ	PLA	TES	S:·	•	•	•	•	•	•	•	•	•	•	•	•	· ALL	SIZES	S .	•	•			٠		•		•	٠	·D.F.	#2
STUDS: · ·							•	•		•	•			•	•	•		· ALL	SIZES	S .	•	•			•		•	•	•	٠	·H.F.	#2
POSTS: · ·							•	•		•				•		•		· 4x4				•			•	•		•	•		·H.F.	#2
							•	•		•	•			•	•	•		· 6x6	OR L	.AR	GER		•							•	·D.F.	#2

# GLUED-LAMINATED BEAMS (GLULAM):

GLUED-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2,400 PSI, Fv = 265 PSI, Fc (PERPENDICULAR) = 650 PSI, E = 1,800,000 PSI. BEAMS CANTILEVERING OVER SUPPORTS AND MULTI-SPAN BEAMS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS SHALL BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER SHALL BE AS SHOWN ON DRAWINGS.

# LAMINATED VENEER LUMBER (LVL):

DESIGN, FABRICATION AND ERECTION SHALL BE PER THE LATEST EDITION OF ICC ESR-2993. LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2,900 PSI, Fv = 285 PSI, Fc (PERPENDICULAR) = 750 PSI, E = 2,000,000 PSI.

# OPEN-WEB FLOOR TRUSSES:

DESIGN, FABRICATION AND ERECTION SHALL BE PER LATEST EDITION OF ICC ESR-1774. CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED TO TRUSSES AND DESIGNED AND FURNISHED BY TRUSS FABRICATOR. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE.

CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. DEFLECTION SHALL BE LIMITED AS

FULLUWS:																																										
FLOOR LIVE LOAD.	•	-				•					•		•				•		•											•							•	•	· [	./4	80	
FLOOR TOTAL LOAD	•		•	•	•	•	•	•	•	٠	•	•	٠	٠	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	٠	•	•	٠	•	•	•	· L	/3	60	

WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER INSTALLATIONS, REMOVE BRIDGING AFTER DECK IS IN PLACE AND REPLACE WITH ADDITIONAL MANUFACTURER SUPPLIED HORIZONTAL STRUT BRACING AT TOP AND BOTTOM CHORDS.

# ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

CONTRACTOR MAY SUBSTITUTE EQUIVALENT COMPOSITE WOOD-STEEL TRUSSES HAVING CURRENT ICC APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL DETAIL CHANGES. SHOP DRAWINGS SHALL INDICATE ALL DETAIL CHANGES REQUIRED.

# PLYWOOD WEB JOIST (TJI OR RED-I TYPE):

DESIGN, FABRICATION AND ERECTION SHALL BE PER THE LATEST EDITION OF ICC ESR-1153 OR ICC ESR-2994. CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED TO JOISTS AND DESIGNED AND FURNISHED BY JOIST FABRICATOR.

CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. DEFLECTION SHALL BE LIMITED AS

 3220 110.
FLOOR LIVE LOAD· · · · · · · · · · · · · · · · · · ·
FLOOR TOTAL LOAD····································
FLAT ROOF LIVE LOAD· · · · · · · · · · · · · · · · · · ·
FLAT ROOF TOTAL LOAD· · · · · · · · · · · · · · · · · · ·

# AT ROOF SLOPES LESS THAN 1/4" PER 1'-0", JOISTS MUST BE DESIGNED FOR PONDING.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. ADDITIONAL JOISTS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

# PREFABRICATED WOOD TRUSSES:

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS STATED IN THE GENERAL STRUCTURAL NOTES OR AS INDICATED ON PLANS. BRIDGING SIZE AND SPACING SHALL BY TRUSS MANUFACTURER/TRUSS DESIGNER, U.N.O. CONTRACTOR SHALL SUBMIT A TRUSS SUBMITTAL PACKAGE AS DEFINED IN IBC SECTION 2303.4.3, INCLUDING, BUT NOT LIMITED TO, INDIVIDUAL TRUSS DESIGN DRAWINGS, TRUSS PLACEMENT DIAGRAM AND TRUSS MEMBER PERMANENT BRACING REQUIREMENTS. TRUSS DOCUMENTS SHALL BE SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE AS REQUIRED BY IBC SECTION 2303.4.1.1. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT ICC APPROVAL.

CALCULATIONS SHALL INCLUDE DEFLECTION AND CAMBER REQUIREMENTS. DEFLECTION SHALL BE LIMITED AS

'	OLEO NO.
	ROOF LIVE OR SNOW·LOAD···································
,	AT ROOF SLOPES LESS THAN 1/4" PER 1'-0", TRUSSES MUST BE DESIGNED FOR PONDING.

ADDITIONAL TRUSSES SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

MULTIPLE TRUSS MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS-GRAIN BENDING AT TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.

TRUSS MANUFACTURER SHALL HAVE CURRENT ICC APPROVAL OR BE AN APPROVED FABRICATOR ACCORDING TO THE BUILDING JURISDICTION. TRUSS MANUFACTURER SHALL PERMANENTLY IDENTIFY EACH TRUSS.

ALL PLYWOOD SHALL BE AMERICAN PLYWOOD ASSOCIATION CDX-RATED SHEATHING OR BETTER, AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER JOINTS. ALL NAILING SHALL BE WITH COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD-TO-WOOD ATTACHMENTS, USE WOOD SCREWS MEETING THE REQUIREMENTS OF ANSI/ASME B18.6.1 OF GRADE ASTM A584, GRADE 1013 TO 1022 STEEL (FY=193,600 PSI). HORIZONTAL DIAPHRAGM AND SHEARWALL CAPACITIES SHALL BE PER THE LATEST EDITION OF ICC ESR-1539. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SHALL HAVE THE FOLLOWING SPAN/INDEX RATIO, AND SHALL BE ATTACHED AS FOLLOWS, U.N.O.:

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		SPAN/INDEX	EDGE	INTERMEDIATE
USE	THICKNESS	ratio <sup>°</sup>	ATTACHMENT	ATTACHMENT
ROOF· · · · · ·	·1/2" · · · · · ·	·32/16 · · · ·	· 8d AT 6" O.C. ·	· · · · 8d AT 12" O.C.
FLOOR· · · · · ·	·3/4" T & G · · ·	·40/20 · · · ·	· SCREWS AT 6" O.	$C. \cdot \cdot \cdot SCREWS$ AT 10" O.C.
SHEAR WALL · ·	·1/2" · · · · · ·	·32/16· · · ·	· 10d AT 6" O.C. ·	· · · · 10d AT 12" O.C.

SCREWS AT FLOOR SHEATHING SHALL BE #8 x 2 1/2" LONG FOR SHEATHING LESS THAN 1" NOMINAL THICKNESS, AND SHALL HAVE CURRENT ICC APPROVAL AS A REPLACEMENT FOR 10d NAILS IN WOOD PANEL DIAPHRAGMS. SCREWS SHALL BE PER THE LATEST EDITION OF ICC ER-5280 OR APPROVED EQUIVALENT. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORT MEMBERS WITH AN APA AFG-01 OR ASTM D3498 QUALIFIED GLUE IN ACCORDANCE WITH APA FORM E30.

ALL PLYWOOD USED IN CONSTRUCTION OF SHEAR WALLS SHALL BE STRUCTURAL 1 RATED.

## NAILING:

ALL NAILS SHALL CONFORM TO ASTM F1667. ALL NAILING SHALL BE WITH COMMON WIRE NAILS OR APPROVED EQUAL. ALL NAILING SHALL BE WITH POWER-DRIVEN FASTENERS PER THE LATEST EDITON OF ICC ESR-1539 OR APPROVED EQUAL. ALL NAILS AND FASTENERS IN PRESSURE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT-DIPPED ZINC GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, COPPER, OR APPROVED EQUAL TYPICAL, U.N.O. TO MEET THE REQUIREMENTS OF IBC SECTION 2304.10.5. NAILS SPECIFIED BY PENNYWEIGHT SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PENNY-WEIGHT	SHANK DIAMETER NAIL BENDING YIELD STRENGTH, F	Fby
8d · · · · · · · · · ·	· · · 0.131" · · · · · · · · · · · · · · · · · · ·	
10d · · · · · · · · ·	· · · 0.148" · · · · · · · · · · · · · · · · · · ·	
16d · · · · · · · · ·	· · · 0.162" · · · · · · · · · · · · · · · · · 90,000 PSI	

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND UNDER BEAMS. PROVIDE 2x SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO IBC TABLE 2304.10.1. ALL FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESSURE TREATED WOOD SHALL BE RE-TREATED IN THE FIELD IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION M4-11. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH EQUIVALENT AND CURRENT ICC APPROVAL. ALL WOOD CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT WOOD SHALL BE HOT-DIPPED GALVANIZED. STAINLESS STEEL OR APPROVED EQUIVALENT, TYPICAL, U.N.O. TYPICAL CONNECTIONS SHALL USE THE FOLLOWING SIMPSON STRONG-TIE CONNECTORS. U.N.O.:

CONNECTION TYPE TYPICAL CONNECTOR
POST TO FOUNDATION · · · · · · · · · · · · · · · · · · ·
POST TO BEAM · · · · · · · · · · · · · · · · · · ·
JOIST TO BEAM · · · · · · · · · · · · · · · · · · ·
BEAM TO BEAM · · · · · · · · · · · · · · · · · · ·
HANGERS SHALL BE THOSE SIZED FOR THE APPLICABLE FRAMING MEMBER. FOR EXAMPLE, AN LU26 HANGER

## SHALL BE USED FOR A 2x6, NOT AN LU24. TOP FLANGE HANGERS WITH EQUIVALENT OR GREATER CAPACITY SHALL BE SUBSTITUTED FOR FACE-MOUNTED HANGERS AS APPLICABLE.

# SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

# VERIFY ALL DIMENSIONS WITH ARCHITECT.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, U.N.O.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY OF THE CORRECTNESS OF ALL APPROVAL DRAWINGS.

# **GENERAL:**

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS.

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS OR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA, U.N.O.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE

RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY, U.N.O.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND/OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

## DEFERRED SUBMITTALS:

SHOP DRAWING SUBMITTALS REQUIRED BY THESE GENERAL STRUCTURAL NOTES WHICH CONTAIN DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER OTHER THAN THE ENGINEER OF RECORD SHALL BE SUBMITTED PRIOR TO CONSTRUCTION TO THE BUILDING OFFICIAL FOR REVIEW. THE DOCUMENTS WILL FIRST BE REVIEWED BY THE ENGINEER OF RECORD AND DETERMINED TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THEIR DESIGN AND SUBMITTAL DOCUMENTS.

H/C······HOLLOW CORE

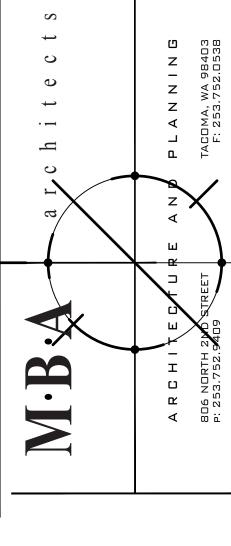
THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION:

ALTERNATE STAIR DESIGNS CONCRETE MIX DESIGNS PREFABRICATED WOOD TRUSSES OPEN-WEB FLOOR JOISTS PLYWOOD WEB JOISTS

# ABBREVIATIONS

A.B.C. · · · · · · AGGREGATE BASE COURSE

	ADOVE FINIOUED FLOOD		HODIZONITAL
	· ABOVE FINISHED FLOOR	HORIZ. · · · · ·	
ALT.· · · · ·			· INSIDE FACE OF WALL
$A.B.\cdot \cdot \cdot \cdot \cdot$			· INVERT ELEVATION
$BM \cdot \ \cdot \ \cdot \ \cdot \ \cdot \ \cdot$	·BEAM	K (KIP)· · · ·	· 1,000 POUNDS
B.F.F. · · · ·	· BELOW FINISHED FLOOR	L.L.:	· LIVE LOADS
B.O.B. · · · ·	· BOTTOM OF BEAM	LBS (#)· · · ·	· POUNDS
B.O.D.· · · · ·	· BOTTOM OF DECK	L.L.H.̈̈́·····	· LONG LEG HORIZONTAL
	· BOTTOM OF FOOTING		· LONG LEG VERTICAL
	· BOTTOM OF PLATE		· MANUFACTURER('S)
	· BOTTOM OF STEEL		· MASONRY CONTROL JOINT
BRG· · · · ·		MECH'L· · · ·	
C.I.P. · · · · ·	· CAST-IN-PLACE	N/A· · · · · ·	· NOT APPLICABLE
C.L.· · · · ·		N.T.S.· · · · ·	
C.L.B. · · · · ·	· CENTERLINE OF BEAM	0.C. · · · · ·	· ON CENTERS
C.L.C. · · · · ·	· CENTERLINE OF COLUMN		· OUTSIDE FACE OF WALL
	· CENTERLINE OF FOOTING	OPP. · · · · ·	
	· CENTERLINE OF WALL		· PRE-CAST CONCRETE
CLR· · · · ·			· POUNDS PER LINEAR FOOT
CONC.· · · ·			· PRE-FABRICATED
	· CONCRETE CONTROL JOINT		· POUNDS PER SQUARE FOOT
	· CONCRETE SAWCUT JOINT		POUNDS PER SQUARE INCH
	· CONCRETE MASONRY UNIT	REINF. · · · ·	· REINFORCING
CONN.· · · ·	· CONNECTION	S.L.H.· · · · ·	· SHORT LEG HORIZONTAL
CONT. · · · ·	· CONTINUOUS	S.L.V. · · · ·	· SHORT LEG VERTICAL
D.L.· · · · ·	· DEAD LOAD	$SIM. \cdot \cdot \cdot \cdot \cdot \cdot$	· SIMILAR
DIA.· · · · ·	· DIAMETER	$SQ. \cdot \cdot \cdot \cdot \cdot \cdot$	
$DN \cdots \cdots \cdots$	· DOWN	$STD \cdot \cdot \cdot \cdot \cdot$	· STANDARD
$DWG(S) \cdot \cdot \cdot \cdot$	· DRAWING(S)	T.L. · · · · ·	
E.O.S. · · · ·		T.O.B. · · · · ·	
EL.· · · · ·		T.O.D. · · · ·	
EQ.· · · · ·			· TOP OF FOOTING
EQUIP. · · · ·			· TOP OF GRATING
	· EXPANSION BOLT	T.O.L. · · · ·	
	· EXPANSION JOINT		· TOP OF MASONRY
E.W. · · · · · ·		T.O.P. · · · ·	
F.F. · · · · ·		T.O.S. · · · ·	
	· FACE OF MEMBER	T.O.W.· · · ·	
F.O.S. · · · ·		TYP.· · · · ·	
F.O.W.· · · ·			· UNLESS NOTED OTHERWISE
GA.· · · · ·		VERT. · · · · ·	
GALV.· · · ·		WSTP · · · ·	
	· GENERAL STRUCTURAL NOTES		· WELDED WIRE REINFORCEMENT
CIB (CITII VM)	· GLUE—LAMINATED BEAM	VV. VV.I\	WILLDED WINE INLINI ONCEMENT
GLD (GLOLAMI)	GLUL-LAWIINATLU DEAW		



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Project No.:

Proj. Engineer:

20327 | Project Mgr.:

SME | Proj. Drafter:

PROJECT NO: 22-Ø13 DATE: 17 JUNE 2*0*24 DRAWN BY:

NO. DATE

CONTENTS

GENERAL STRUCTURAL NOTES

REVISIONS

A 06.17.24 PERMIT COMMENTS

# SPECIAL INSPECTION

# SPECIAL STRUCTURAL INSPECTION:

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING SAFETY DEPARTMENT. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE CITY INSPECTIONS REQUIRED BY IBC SECTION 110.3. SPECIAL INSPECTION IS REQUIRED PER SECTIONS 1704 AND 1705 FOR THE FOLLOWING:

- CONCRETE:
  - DURING THE TAKING OF TEST SPECIMENS. DURING THE PLACEMENT OF ALL REINFORCED CONCRETE, U.N.O.
  - VERIFICATION OF CURING TEMPERATURE AND TECHNIQUE (PERIODIC). NO INSPECTION IS REQUIRED FOR SLABS ON GRADE.
- 2. BOLTS IN CONCRETE:
- A) DURING THE PLACING OF CONCRETE AROUND BOLTS.
- REINFORCING STEEL (PERIODIC): A) DURING THE PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION NOTED ABOVE.
- 4. EPOXY AND ADHESIVE ANCHORS:
  - A) DURING THE PLACEMENT OF ALL ANCHORS.
- WELDING:
  - VISUAL INSPECTION OF ALL FIELD WELDS. NON-DESTRUCTIVE TESTING OF ALL COMPLETE PENETRATION WELDS.
- 6. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
- A) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- PER IBC SECTION 1704.2.4: THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL. SUBMIT A FINAL REPORT AS REQUIRED.
- C) UPON COMPLETION OF THE ASSIGNED WORK, THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.

## TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

APPLIES TO THIS PROJECT		VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARDS <sup>©</sup>	
YES	1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	_	X	ACI 318: CH 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
	2.	REINFORCING BAR WELDING:				
NO	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706:	_	X	AWS D1.4	-
NO	В.	INSPECT SINGLE-PASS FILET WELDS, MAXIMUM 5/16"	_	X	ACI 318: 26.5.4	-
NO	C.	INSPECT OTHER WELDS.	Χ	_		-
YES	3.	INSPECT ANCHORS CAST IN CONCRETE.	_	X	ACI 318: 17.8.2	-
	4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. b				
NO	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	1	ACI 318: 17.8.2.4	-
YES	В.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	_	X	ACI 318: 17.8.2	-
YES	5.	VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
YES	6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	_	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
YES	7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	×	_	ACI 318: 26.5	1908.6, 1908.7, 1908.8
YES	8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	1	X	ACI 318: 265.3-26.5.5	1908.9
	9.	INSPECT PRESTRESSED CONCRETE FOR:				
NO	A.	APPLICATION OF PRESTRESSING FORCES	×	-	ACI 318: 26.10	_
NO	В.	GROUTING OF BONDED PRESTRESSING TENDONS.	X	_	ACI 318: 26.10	_
NO	10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	_	Х	ACI 318: CH. 26.9	_
NO	11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	_	X	ACI 318: 26.11.2	-
YES	12.	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	_	Х	ACI 318: 26.11.1.2(b)	

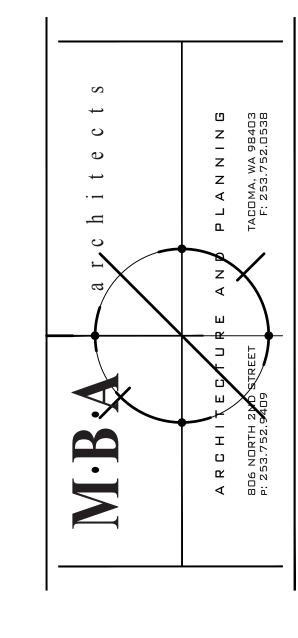
FOR SI: 1" = 25.4mm a. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

# TABLE 1705.6

# VERIFICATION AND INSPECTION OF SOILS

VEI III IOF	THOM AND INSPECTION OF SOLS		
APPLIES TO THIS PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
YES	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X
YES	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	_	Х
YES	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X
YES	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	Х	-
YES	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	_	Х



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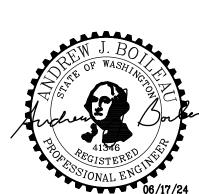
# CONTENTS SPECIAL INSPECTION TABLES

REVISIONS

NO. DATE A 06.17.24 PERMIT COMMENTS

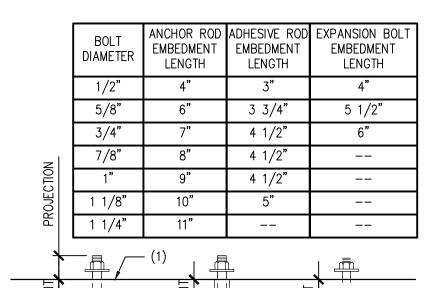
PROJECT NO: 22-Ø13 DATE: 17 JUNE 2024 DRAWN BY:

SHEET NO:





Proj. Engineer: SME | Proj. Drafter:



NOTES: 1. FACE OF WALL, TOP OF WALL, COLUMN, ETC. NOTES:

- A. PROVIDE ANCHORS, ADHESIVE RODS AND EXPANSION BOLTS PER THIS SCHEDULE UNLESS NOTED ON THE PLANS OR DETAILS.
- B. EXPANSION BOLTS SHALL HAVE I.C.C. REPORT FOR SAME

INSTALLATION.

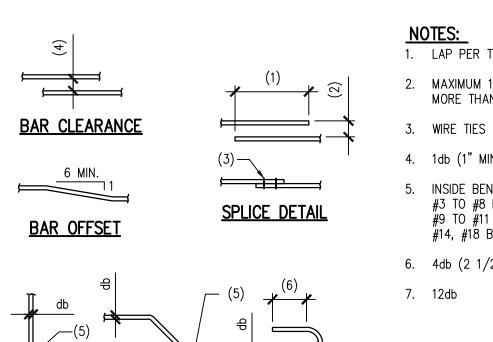
C. THICKNESS OF DRYPACK DOES NOT APPLY TOWARD EMBEDMENT.

D. ANCHORS SHALL BE PLACED IN CONCRETE, f'c=3,000 MINIMUM

ANCHOR ROD ADHESIVE ROD EXPANSION BOLT

TYPICAL ANCHOR ROD,

ADHESIVE ROD, AND EXPANSION BOLT SCHEDULE



# NOTES: 1. LAP PER TYPICAL SCHEDULE

- 2. MAXIMUM 1/5 LAP BUT NOT MORE THAN 6"
- 4. 1db (1" MINIMUM) 5. INSIDE BEND RADIUS:
- #3 TO #8 BARS = 3db #9 TO #11 BARS = 4db #14, #18 BARS = 5db
- 6. 4db (2 1/2" MINIMUM)

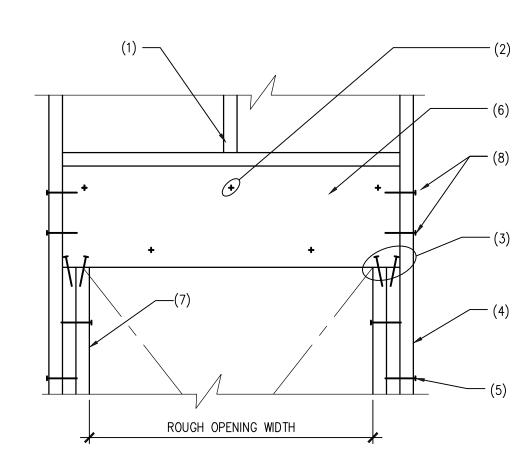
# SCALE: N.T.S. TYPICAL CONCRETE REINFORCING BARS

BEND AND HOOK DETAILS

HEADER S	SCHEDULE
ROUGH OPENING WIDTH	HEADER SIZE
UP TO 5'-0"	(2) 2x8
5'-0" TO 7'-0"	(2) 2x10
7'-0" TO 9'-0"	(2) 2x12

# 1. WOOD STUD WALL

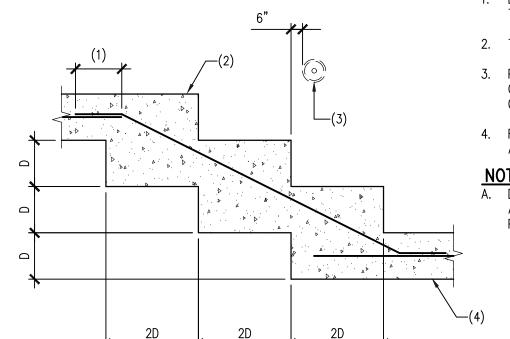
- 2. 16d AT 12" O.C. STAGGERED BOTH SIDES
- 3. (2) 16d TOENAILS EACH SIDE, ÈÁCH END
- 4. RUN VERTICAL STUD UP PAST HEADER AS SHOWN
- 5. (2) 16d AT 12" O.C.
- WOOD HEADER
- 7. DOUBLE STUD UNDER HEADER BEARINGS FOR OPENING WIDTHS GREATER THAN 5'-0"
- 8. (2) 10d NAILS NOTES:
- A. THIS SCHEDULE ONLY TO BE USED IN WALLS WHERE NO OTHER HEADER HAS BEEN CALLED OUT ON THE PLANS.



# CLASS "B" LAP SPLICE LENGTH (IN INCHES) c=2,500 PSI f'c=3,000 PSI f'c=4,000 PSI f'c=5,000 PS REG TOP REG

- NOTES: A. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS, WALLS, AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES.
- CONTACT STRUCTURAL ENGINEER IF CENTER-TO-CENTER SPACING OF REINFORCEMENT IS LESS THAN (3) BAR DIAMETERS
- D. LAP SPLICES BASED ON fy = 60 KSI.

# LAP SPLICE SCHEDULE FOR REINFORCING IN CONCRETE SCALE: N.T.S.



NOTES:

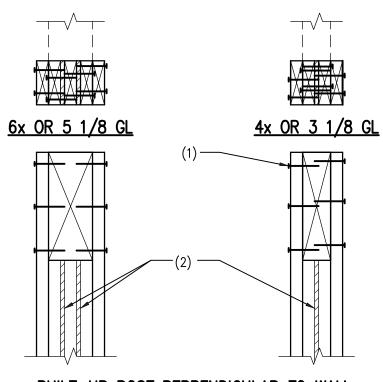
1. LAP PER G.S.N. (24" MIN.) TYPICAL

- 2. TOP OF WALL FOOTING 3. PIPE THROUGH STEM WALL AS OCCURS SEE TYPICAL DETAIL
- 4. RETURN TO FOOTING THICKNESS AS SHOWN ON PLAN
- NOTES:
  A. D=2'-0" MAXIMUM, U.N.O. FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS.

1. (6) 16d EACH SIDE (TYP.)

2. PLYWOOD FILLER

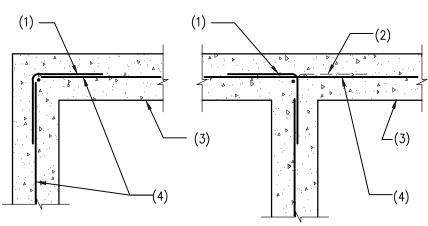
# TYPICAL STEP IN CONCRETE FOOTING SCALE: N.T.S.



BUILT-UP POST PERPENDICULAR TO WALL

BUILT-UP POST
SCALE: N.T.S.

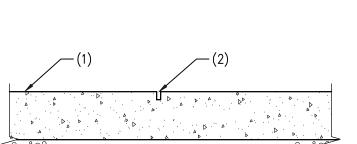
# 1. CORNER BARS SAME SIZE AND SPACING AS HORIZ. REINFORCING LAP PER G.S.N. (24" MINIMUM) 2. ALTERNATE BENDS



<u>CORNER</u> **INTERSECTION** 

# TYPICAL CORNER NEINFORCING IN CONCRETE FOOTING, STEM OR WALL

CONTROL JOINTS (C.J.) IN CONCRETE SLAB ON GRADE



# NOTES: 1. CONCRETE SLAB ON GRADE

3. CONCRETE FOOTING, STEM OR

REINFORCING PER PLANS

AND/OR DETAILS

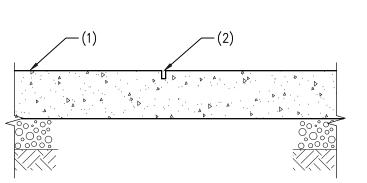
2. SAWCUT - 1/8° WIDE x 1/4SLAB THICKNESS IN DEPTH -CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING - WORK MUST BE ACCOMPLISHED WITHIN (24) HOURS OF CONCRETE PLACEMENT

NOTES:

1. TOP PLATE SPLICE OVER STUD

2. DOUBLE TOP PLATE

3. WOOD STUDS



6'-0" MINIMUM LAP

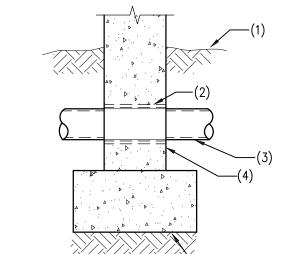
16d AT 3" O.C.

TYPICAL SPLICE OF TOP PLATES

SCALE: N.T.S.

TYPICAL CORNER

<u>CORNER</u>



**INTERSECTION** 

REINFORCING IN CONCRETE FOOTING, STEM OR WALL

NOTES:

1. FINISH GRADE AS OCCURS 2. SLEEVE – PROVIDE 1/2"
MINIMUM CLEARANCE AROUND

CORNER BARS SAME SIZE AND SPACING AS HORIZ. REINFORCING

2. CONCRETE FOOTING, STEM OR

REINFORCING PER PLANS

AND/OR DETAILS

LAP PER G.S.N. (24" MINIMUM)

Z 4/2 π

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- PIPE / CONDUIT
- 3. PIPE OR CONDUIT

NOTES:

EDGE NAILING

RIDGE VENTS

3. WOOD TRUSS TOP CHORD

6. SIMPSON LSTA30 AT 24" O.C.

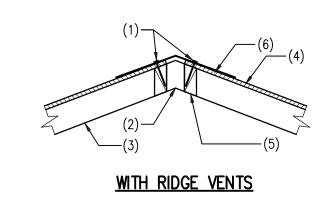
CENTERED ON RIDGE

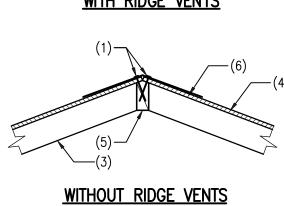
4. PLYWOOD SHEATHING

5. 2x SOLID BLOCKING

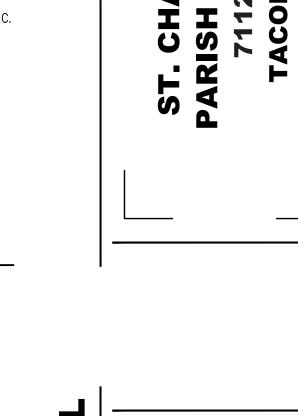
- 4. STEM WALL 5. CONCRETE FOOTING
- NOTES: A. NO PIPE SHALL PASS THROUGH
- FOOTINGS.
- B. FOR ADDITIONAL INFORMATION SEE PLANS AND DETAILS.

# PIPE THROUGH FOUNDATION STEM WALL SCALE: N.T.S.





TYPICAL TRUSS RIDGE DETAIL



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TYPICAL DETAILS

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17 JUNE 2024

PROJECT NO: 22-Ø13

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TYPICAL WOOD HEADER DETAIL

SCALE: N.T.S.



- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. DO NOT USE "CONC C.J." AS DIMENSION LINE OR TO LOCATE BUILDING ELEMENTS.
- 2. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- 3. SCHEDULE MARK DESIGNATION ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- 4. UNLESS NOTED OTHERWISE ON PLANS OR DETAILS, DEPTH OF FOOTING DIMENSIONS INDICATED IN THE G.S.N. ARE MINIMUMS, FOUNDATION CONTRACTOR SHALL COORDINATE WITH TRADES TO ENSURE THAT THESE ARE SUFFICIENT FOR THE WORK. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 5. CONC. C.J., AS SHOWN ON PLAN, INDICATES LOCATION OF EITHER KEYED OR SAW CUT CONTROL JOINT IN CONCRETE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE G.S.N. AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 6. AS SHOWN ON PLAN INDICATES 6" WOOD STUD WALL FRAMED WITH 2X6 HF #2 STUDS AT 16" O.C.
- 7. AS SHOWN ON PLAN INDICATES 4" WOOD STUD WALL FRAMED WITH 2X4 HF #2 STUDS AT 12" O.C.
- 8. AS SHOWN ON PLAN INDICATES 8" CONCRETE BASEMENT WALL.

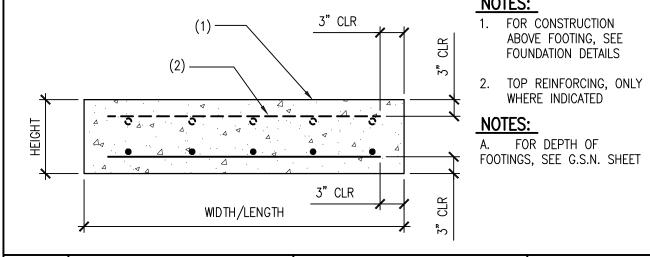
- 9. F1, F2, ETC. AS SHOWN ON PLAN INDICATES CONCRETE FOOTING. SEE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 10. P1, P2, ETC. AS SHOWN ON PLAN INDICATES WOOD POST. SEE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION. ALL POSTS SHALL BE P1, U.N.O.
- 11. SEE ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING VAPOR BARRIER AT SLAB ON GRADE AND BASEMENT WALLS.
- 12. T.O.F. ELEVATIONS ON THIS SHEET ARE MINIMUMS AND ARE WITH RESPECT TO BASEMENT FINISHED FLOOR ELEVATION.
- 13. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

14. AS SHOWN ON PLAN INDICATES SLAB ON GRADE.

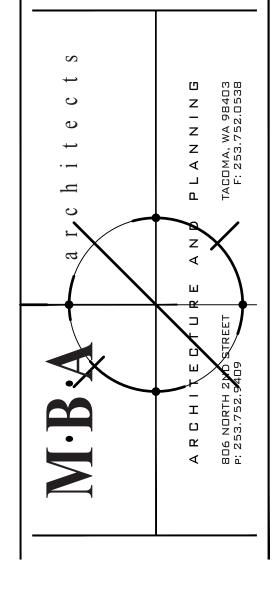
# CONCRETE FOOTING (F) SCHEDULE



MARK		DIMENSIONS		FOOTING REINFORCING	REMARKS
WANN	HEIGHT	WIDTH	LENGTH	FOOTING REINFORCING	NEMANNS
F1	12"	1'-6"	CONT.	(2) #5 CONT.	
F2	12"	4'-0"	4'-0"	(4) #5 E.W.	
F3	12"	5'-0"	5'-0"	(5) #5 E.W.	
F4	12"	3'-0"	CONT.	(3) #5 CONT.	SEE DETAILS 05/S6.0, 06/S6.0 AND 08/S6.0

# WOOD POST (P) SCHEDULE:

	MARK	# OF KING STUDS	# OF TRIMMER STUDS	REMARKS
	P1	(2) 2x	(2) 2x	TYP. U.N.O.
	P2	(2) 2x	(3) 2x	
	P3	6x6	1	D.F. #1
	P4	4x8	1	
	P5	7x7	-	2.0E REDLAM LV
,				



SHEET NO:

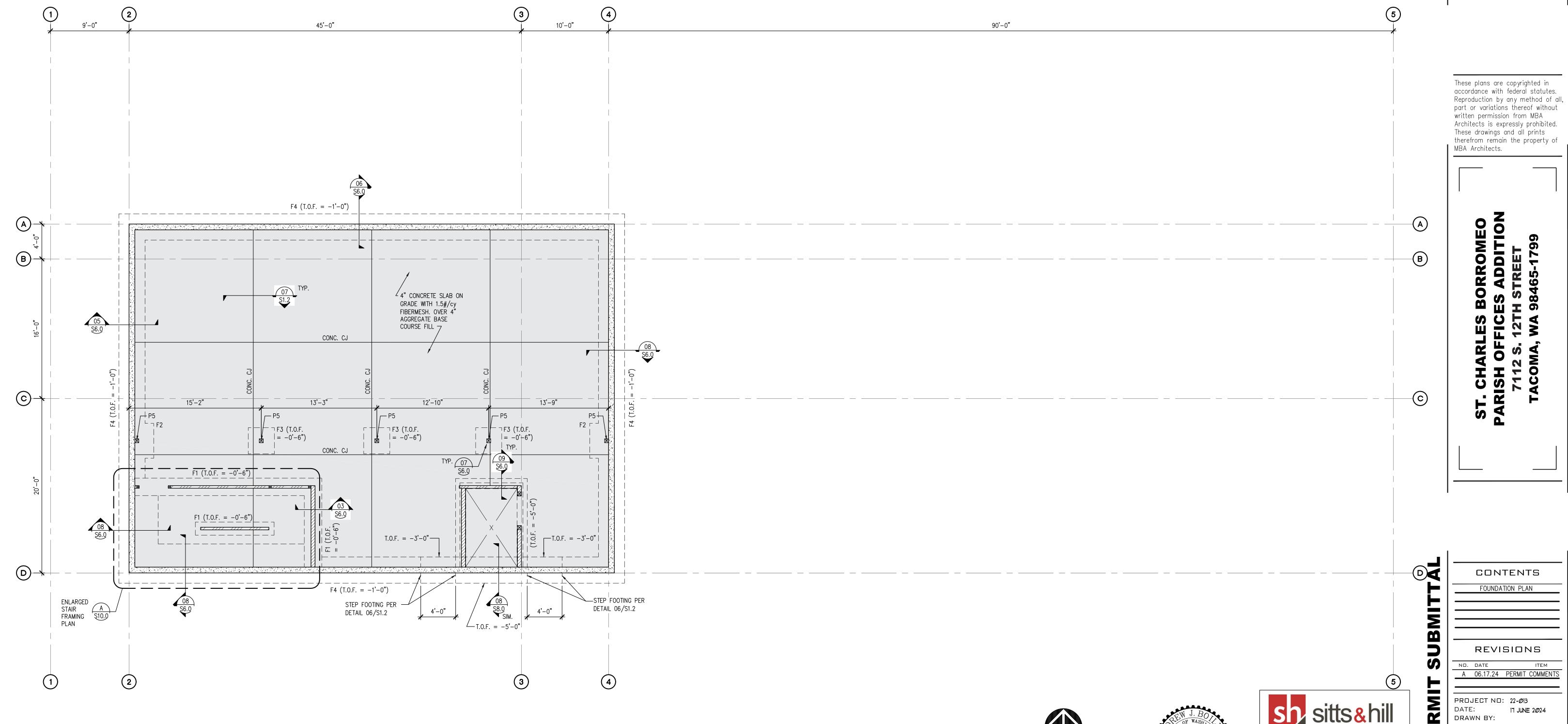
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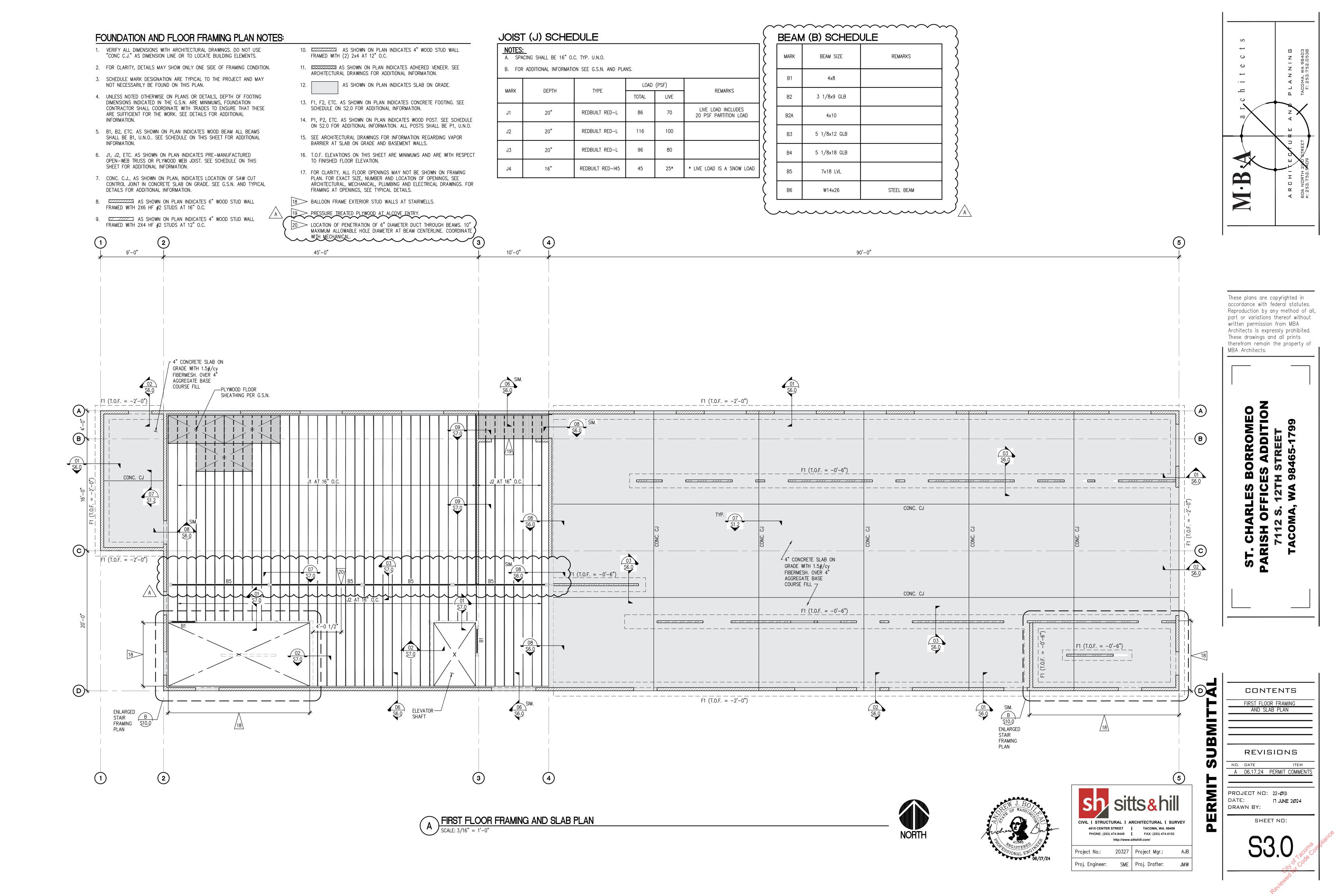
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PHONE: (253) 474-9449 | FAX: (253) 474-0153

20327 | Project Mgr.:

Proj. Engineer: SME Proj. Drafter:





# WALL PLAN NOTES:

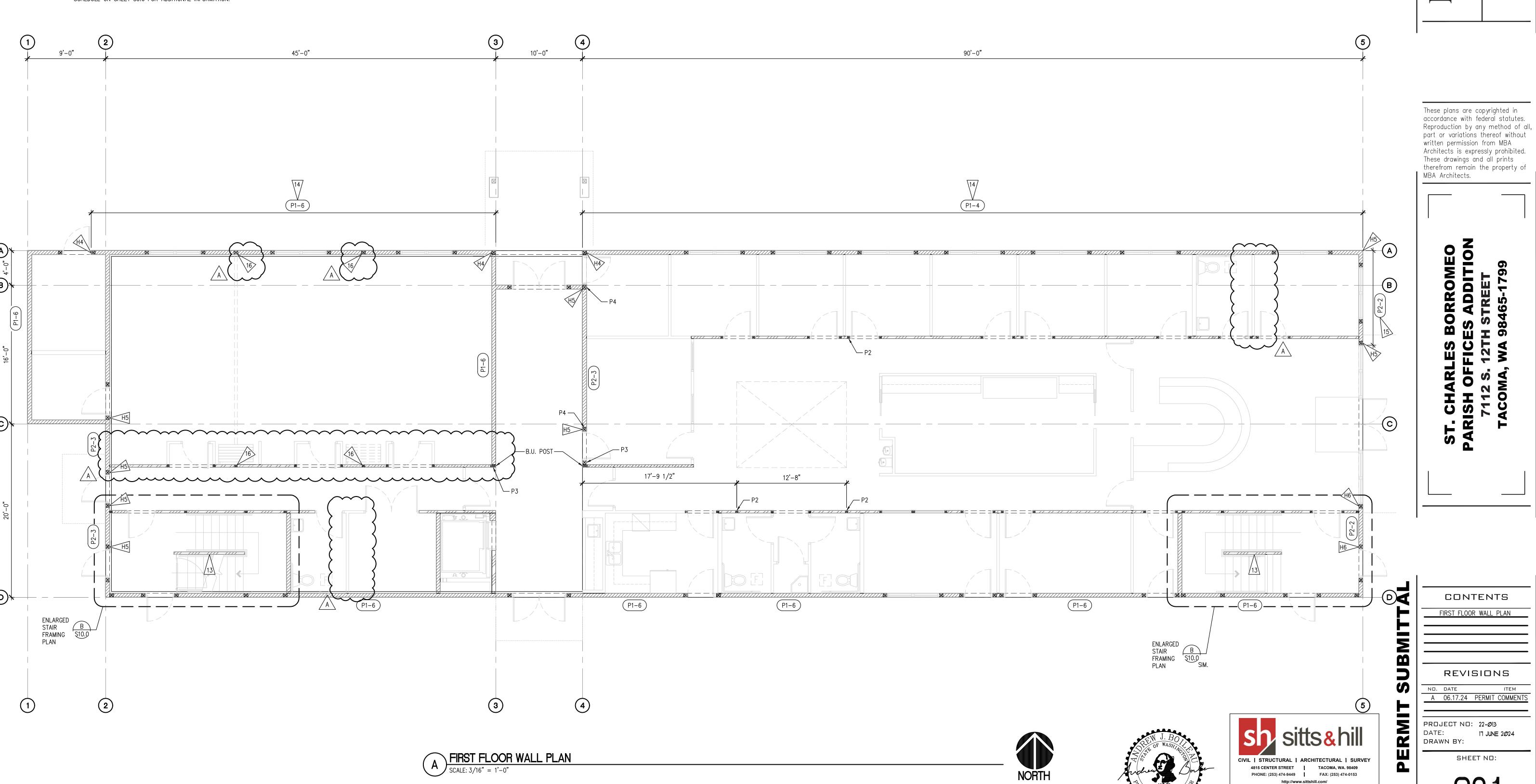
- 1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 2. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- 3. SCHEDULE MARK DESIGNATION ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- 4. AS SHOWN ON PLAN INDICATES 6" WOOD STUD WALL FRAMED WITH 2x6 HF #2 STUDS AT 16" O.C.
- 5. AS SHOWN ON PLAN INDICATES 4" WOOD STUD WALL FRAMED WITH 2x4 HF #2 STUDS AT 12" O.C.
- 6. AS SHOWN ON PLAN INDICATES 4" WOOD STUD WALL FRAMED WITH (2) 2x4 AT 16" O.C.
- 7. ZZZZZZZZ AS SHOWN ON PLAN INDICATES 4" WOOD STUD WALL FRAMED WITH (2) 2x4 AT 12" O.C.
- 8. P1, P2, ETC. AS SHOWN ON PLAN INDICATES WOOD POST. SEE SCHEDULE ON S2.0 FOR ADDITIONAL INFORMATION.
- AS SHOWN ON PLAN INDICATES PLYWOOD SHEARWALL. SEE SCHEDULE ON SHEET S9.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE P1-6, U.N.O.
- AS SHOWN ON PLAN INDICATES WOOD HOLDOWN. SEE SCHEDULE ON SHEET S9.0 FOR ADDITIONAL INFORMATION.

- 11. B.U. POST AS SHOWN ON PLAN INDICATES BUILT-UP POST PER TYPICAL
- 12. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

13 BALLOON FRAME EXTERIOR STUD WALLS AT STAIRWELLS.

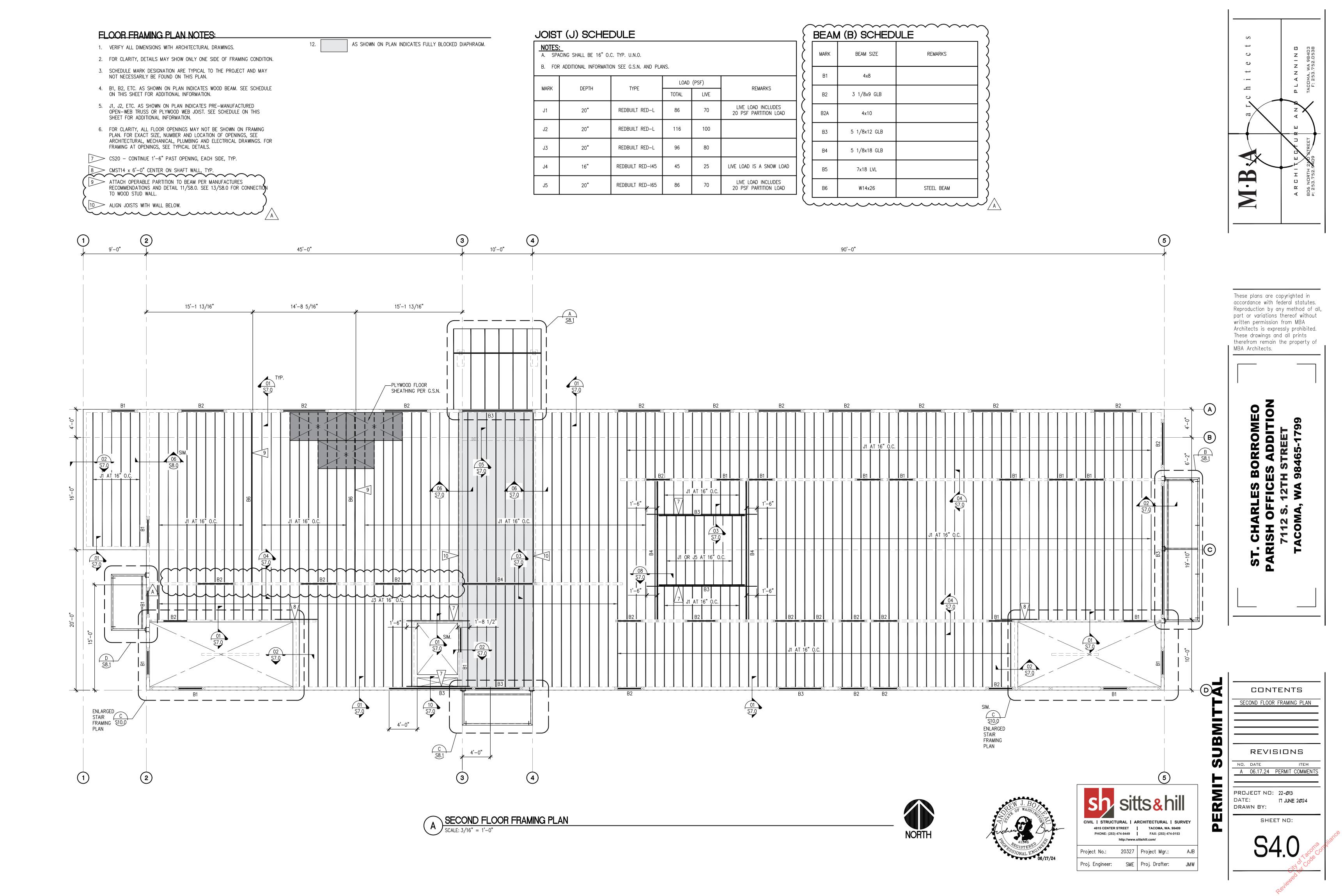
14 SEE 08/S9.0 FOR ADDITIONAL REQUIREMENTS AT PERFORATED SHEAR

15 SEE 09/S9.0 FOR ADDITIONAL REQUIREMENTS AT FORCE-TRANSFER AROUND OPENINGS SHEAR WALLS. 16 SEE 13/S8.0 FOR BUILT-UP STUDS AT OPERABLE WALL SUPPORT BEAM. 



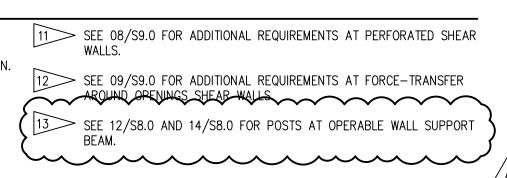
Z · P

20327 Project Mgr.:



# WALL PLAN NOTES:

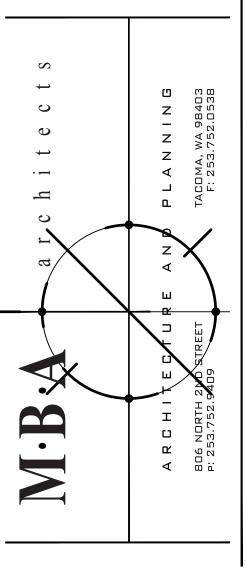
- 1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 2. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- 3. SCHEDULE MARK DESIGNATION ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- FRAMED WITH 2X6 HF #2 STUDS AT 16" O.C.
- 5. AS SHOWN ON PLAN INDICATES 4" WOOD STUD WALL FRAMED WITH 2X4 HF #2 STUDS AT 12" O.C.
- 6. P1, P2, ETC. AS SHOWN ON PLAN INDICATES WOOD POST. SEE SCHEDULE ON S2.0 FOR ADDITIONAL INFORMATION. ALL POSTS SHALL BE P1, U.N.O.
- AS SHOWN ON PLAN INDICATES PLYWOOD SHEARWALL. SEE SCHEDULE ON SHEET S9.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE P1-6, U.N.O.
- AS SHOWN ON PLAN INDICATES WOOD HOLDOWN. SEE SCHEDULE ON SHEET S9.0 FOR ADDITIONAL INFORMATION.
- 9. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.



10 FUTURE OPENING IN FLOOR. 45'-0" 10'-0" 90'-0" 9'-0" ( P1-6 ) B 12 F-74 P1-6 P1-6 SIM. C \$10.0 ENLARGED STAIR FRAMING PLAN ENLARGED STAIR FRAMING PLAN

SECOND FLOOR WALL PLAN

SCALE: 3/16" = 1'-0"



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SECOND FLOOR WALL PLAN

REVISIONS

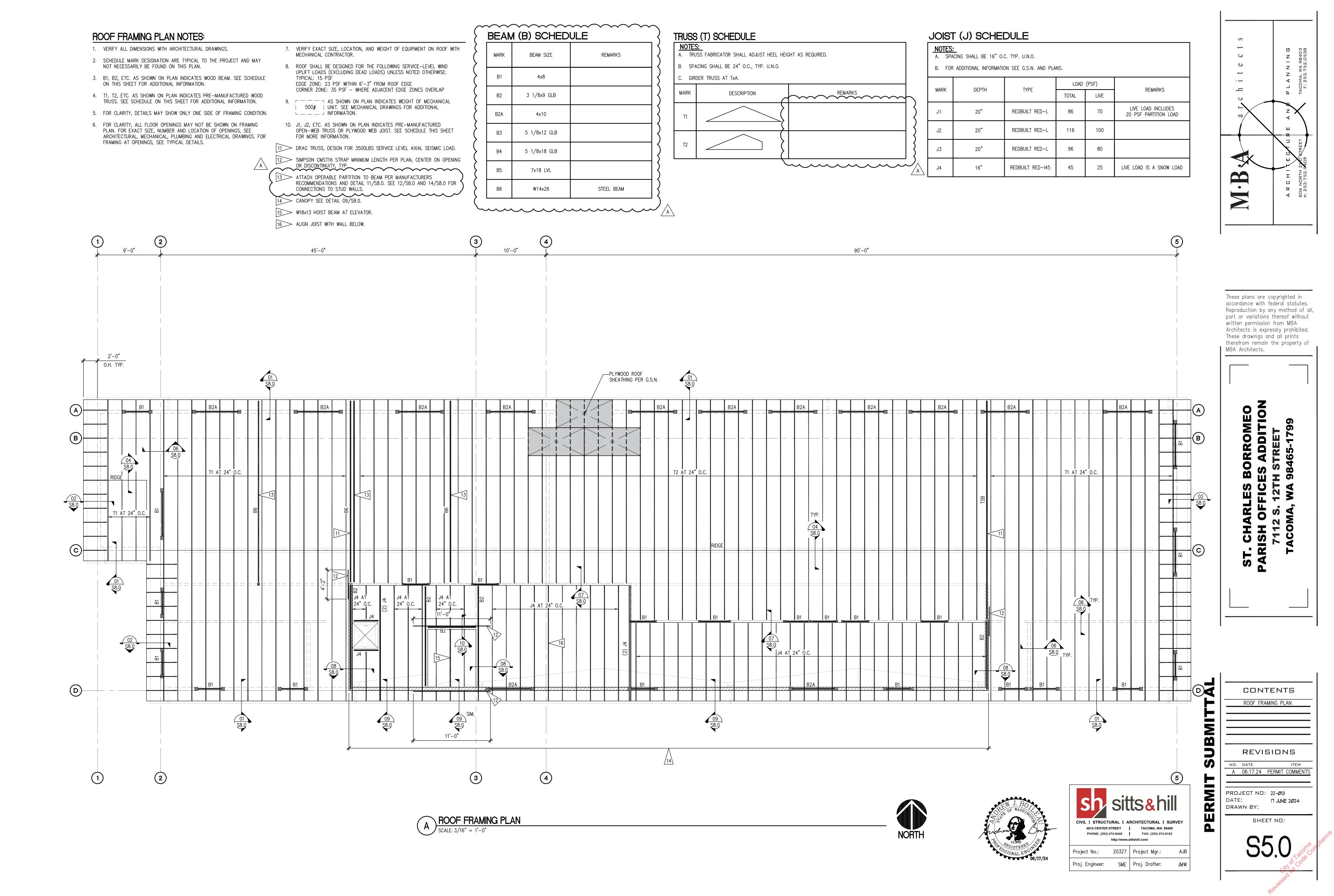
A 06.17.24 PERMIT COMMENTS

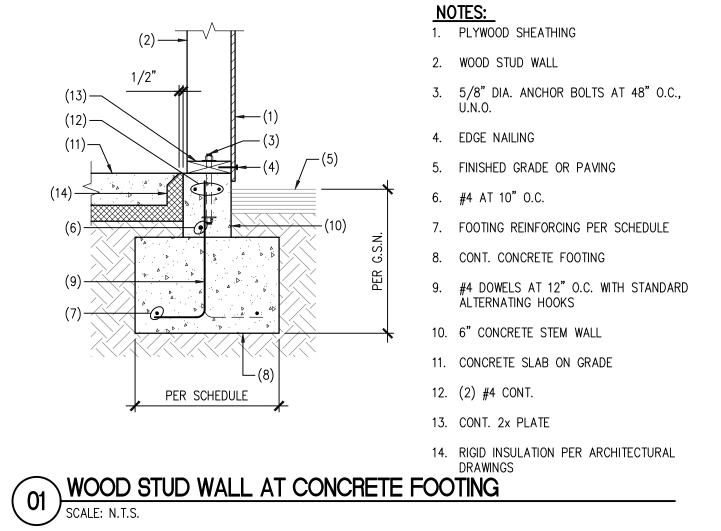
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DATE: IT JUNE:

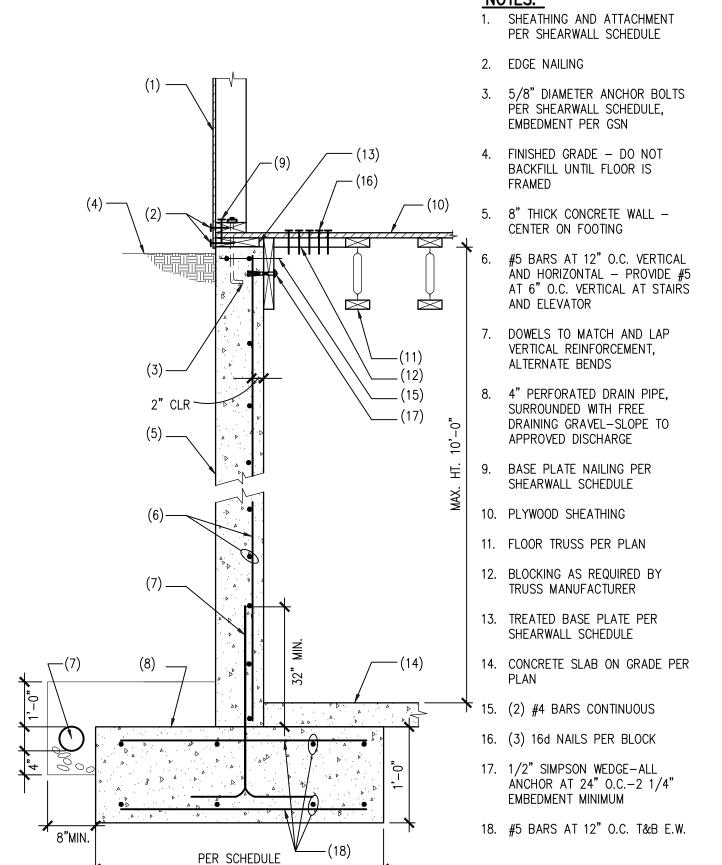
DRAWN BY: SHEET NO:

CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY 4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153

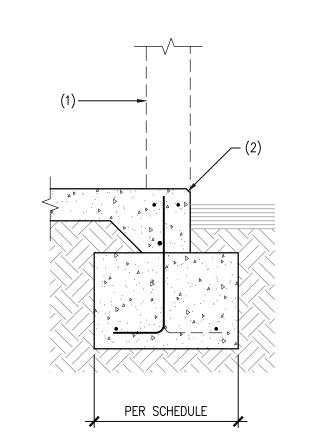
20327 Project Mgr.:







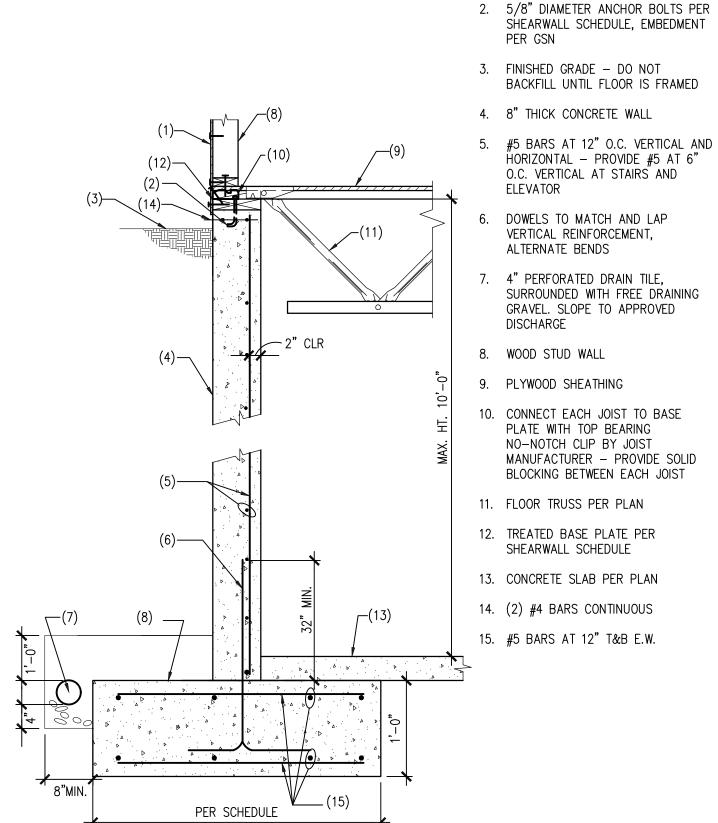
TALL BASEMENT WALL WITH TRUSSES PARALLEL TO WALL
SCALE: N.T.S.



NOTES: 1. DOOR 2. TOOLED EDGE NOTES:

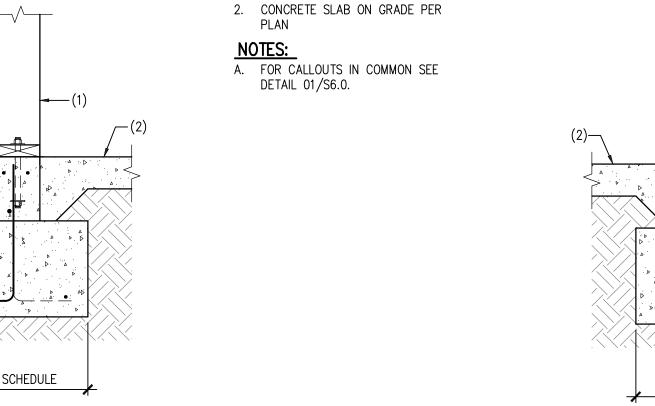
A. FOR CALLOUTS IN COMMON SEE DETAIL 01/S6.0.

# O2 CONCRETE FOOTING AT DOOR SCALE: N.T.S.



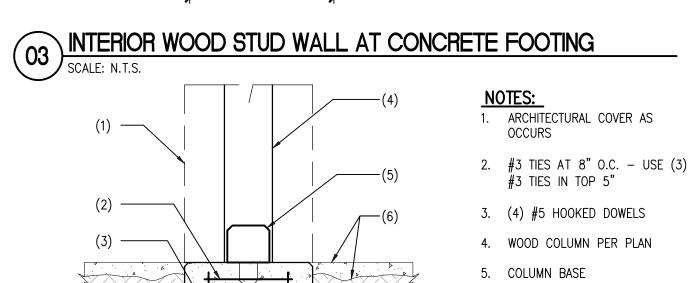
TALL BASEMENT WALL WITH TRUSSES PERPENDICULAR TO WALL
SCALE: N.T.S.

# PER SCHEDULE



NOTES:

INTERIOR WALL



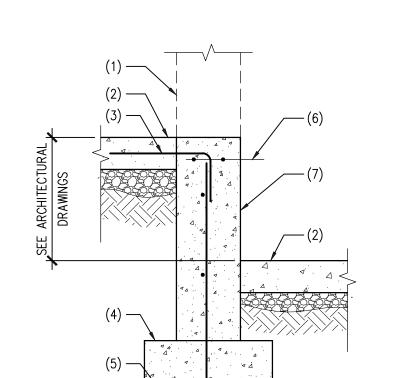
6. CONCRETE SLAB OR FINISH GRADE AS OCCURS 7. CONCRETE PEDASTAL 8. CONCRETE FOOTING

PER SCHEDULE

1. SHEATHING AND ATTACHMENT PER

SHEARWALL SCHEDULE

# WOOD COLUMN FOOTING SCALE: N.T.S.



# 1. WALL ABOVE AS OCCURS 2. CONCRETE SLAB ON GRADE PER PLAN

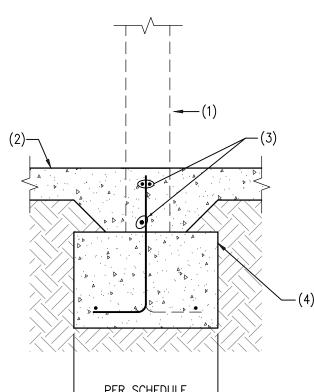
9. REINFORCING PER SCHEDULE

- 3. #4X16"X48" (SLV) AT 24" O.C. 4. CONCRETE FOOTING PER SCHEDULE
- 5. ALTERNATE BENDS

6. (2) #4 CONTINUOUS TOP OF

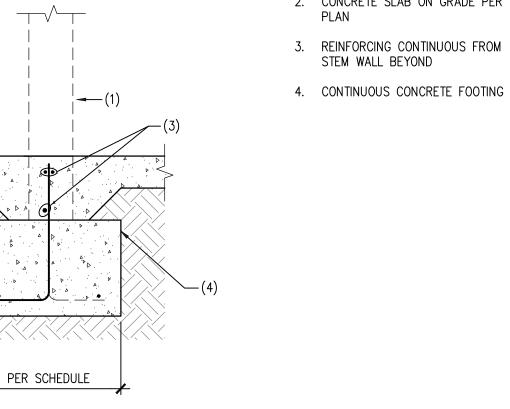
7. 8" CONCRETE STEM WALL WITH #4 BARS AT 10" O.C. EACH WAY, CENTERED IN WALL

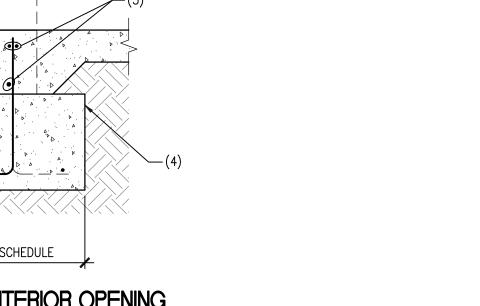
9 ELEVATOR PIT STEM WALL AND FOOTING SCALE: N.T.S.



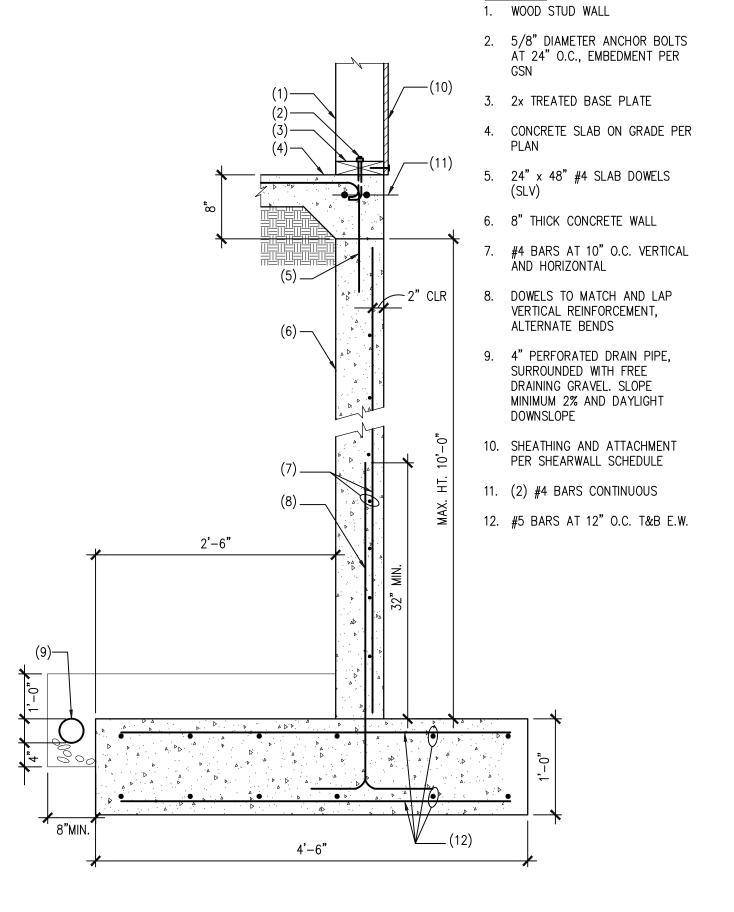
## NOTES: 1. STUD WALL BEYOND

- 2. CONCRETE SLAB ON GRADE PER
- 3. REINFORCING CONTINUOUS FROM
- STEM WALL BEYOND

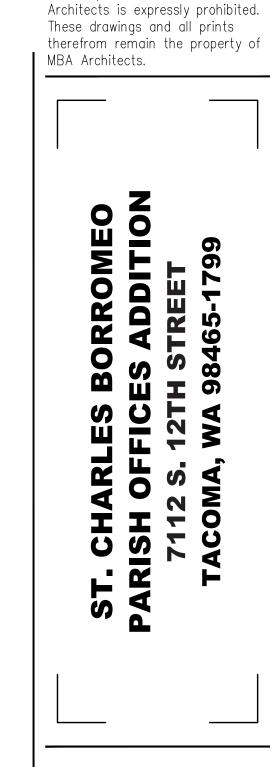








8 BASEMENT WALL AT STAIR DETAIL SCALE: N.T.S.



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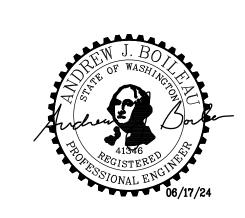
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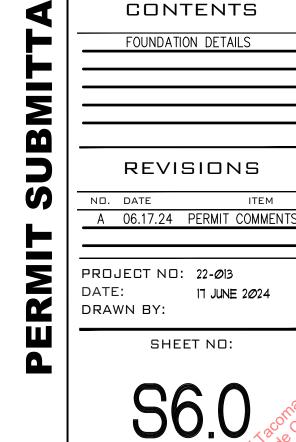
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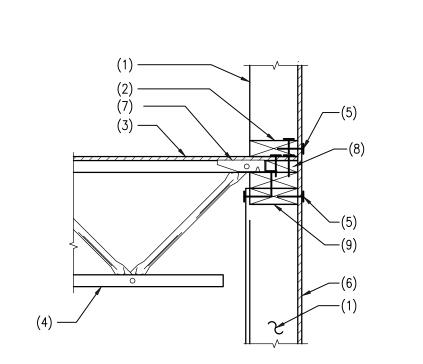
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# NOTES: 1. WOOD STUD WALL

- 2. BASE PLATE AND NAILING PER SHEARWALL SCHEDULE
- 3. PLYWOOD SHEATHING
- 4. PREFABRICATED WOOD FLOOR
- 5. EDGE NAILING
- 6. SHEATHING AND ATTACHMENT PER SHEARWALL SCHEDULE
- 7. CLIP BY TRUSS MANUFACTURER
- 8. SOLID BLOCKING BETWEEN TRUSSES WITH (3) 16d NAILS PER BLOCK

NOTES:

1. FLOOR DIAPHRAGM EDGE

2. FLOOR TRUSSES PER PLAN

3. TRUSS BLOCKING PANEL AT

4. WOOD STUD BEARING WALL

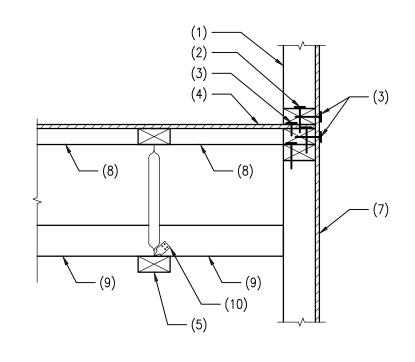
5. 3-10d NAILS PER BLOCK

BEARING WALLS BY TRUSS MFR.

NAILING

DOUBLE 2x TOP PLATE WITH 16d NAILS AT 12" O.C.

# WOOD FLOOR TRUSS AT WOOD STUD WALL SCALE: N.T.S.

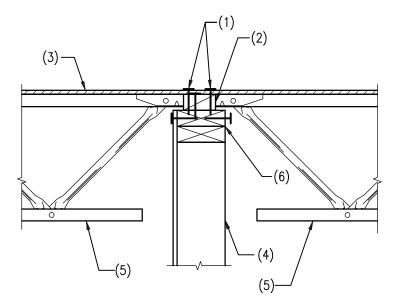


# NOTES: 1. WOOD STUD WALL

- 2. BASE PLATE AND NAILING PER SHEARWALL SCHEDULE
- EDGE NAILING
- 4. PLYWOOD SHEATHING
- 5. PREFABRICATED WOOD FLOOR TRUSS
- 6. DOUBLE 2x TOP PLATE WITH 16d NAILS AT 12" O.C.
- 7. SHEATHING AND ATTACHMENT PER SHEARWALL SCHEDULE
- 8. 2x BLOCKING WHERE REQUIRED BY TRUSS MANUFACTURER
- 9. BRIDGING WHERE REQUIRED BY TRUSS MANUFACTURER
- 10. BRIDGING CLIP BY TRUSS

# WOOD FLOOR TRUSS AT WOOD STUD WALL MANUFACTURER SCALE: N.T.S.

# WOOD FLOOR TRUSSES AT WOOD BEAM SCALE: N.T.S.



# 1. DOUBLE EDGE NAILING

- 2x BLOCKING TO MATCH TOP CHORD HEIGHT WITH (3) 16d NAILS PER BLOCK

N - N - WA 9840

P L A N | TAGOMA, W F: 253.7

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- 3. PLYWOOD SHEATHING 4. WOOD STUD WALL PER PLAN
- 5. PREFABRICATED WOOD FLOOR TRUSS
- DOUBLE 2x TOP PLATE

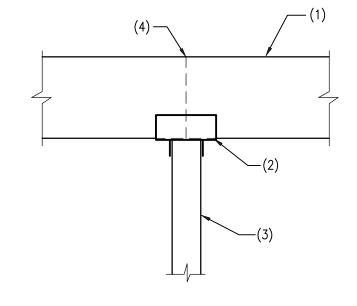


# 

06 INTERIOR SHEARWALL AT WOOD FLOOR TRUSS
SCALE: N.T.S.

# NOTES: 1. PLYWOOD SHEATHING

- 2. SIMPSON Z44 CLIP WITH 1/2"
- 3. WOOD FLOOR TRUSS
- 4. EDGE NAILING
- 5. WOOD STUD WALL
- 6. DOUBLE 2x TOP PLATE



# NOTES: 1. WOOD BEAM

2. SIMPSON CCQ POST CAP

NOTES:

1. DOUBLE EDGE NAILING

3. PLYWOOD SHEATHING

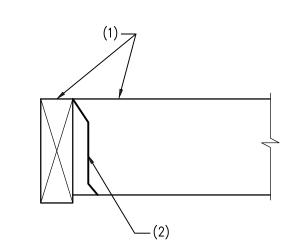
4. WOOD BEAM PER PLAN

5. PREFABRICATED WOOD FLOOR

2. 2x BLOCKING TO MATCH TOP

CHORD HEIGHT WITH (3) 16d NAILS PER BLOCK

- 3. WOOD COLUMN
- 4. BEAM SPLICE AS OCCURS

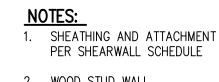


# NOTES: 1. WOOD BEAM PER PLAN

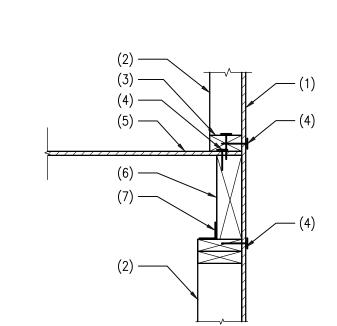
2. SIMPSON HU HANGER

# WOOD FLOOR TRUSS AT WOOD STUD WALL SCALE: 1"=1'-0"

PREFABRICATED WOOD FLOOR TRUSS AT WOOD STUD WALL
SCALE: N.T.S.



- 2. WOOD STUD WALL 3. BASE PLATE AND NAILING PER SHEARWALL SCHEDULE
- 4. EDGE NAILING
- 5. PLYWOOD SHEATHING
- 6. PREFABRICATED WOOD FLOOR TRUSS — DOUBLE IF REQUIRED



# NOTES:

- 1. SHEATHING AND ATTACHMENT PER SHEARWALL SCHEDULE
- 3. BASE PLATE AND NAILING PER

# 2. WOOD STUD WALL SHEARWALL SCHEDULE 4. EDGE NAILING 5. PLYWOOD SHEATHING 6. BEAM PER PLAN 7. SIMPSON A35 CLIP AT 24" O.C.

# WOOD STUD WALL AT BEAM SCALE: N.T.S.

# WOOD BEAM AT WOOD COLUMN SCALE: N.T.S.



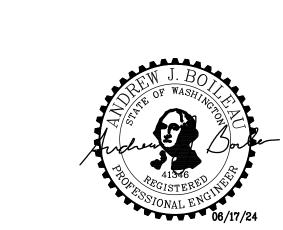


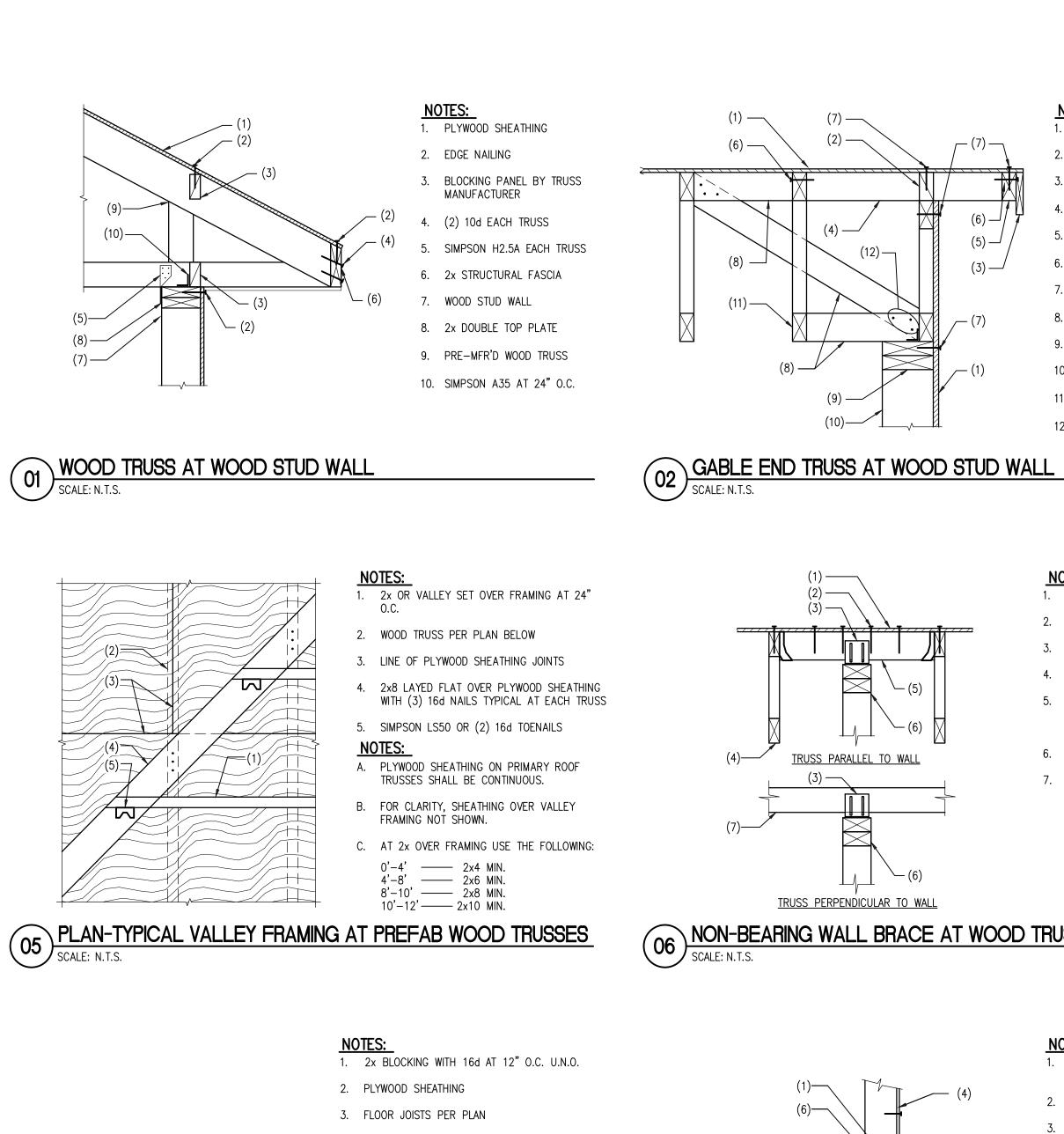


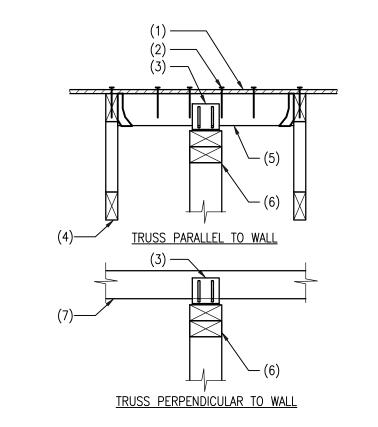
FLOOR FRAMING DETAILS

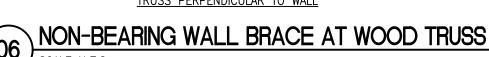
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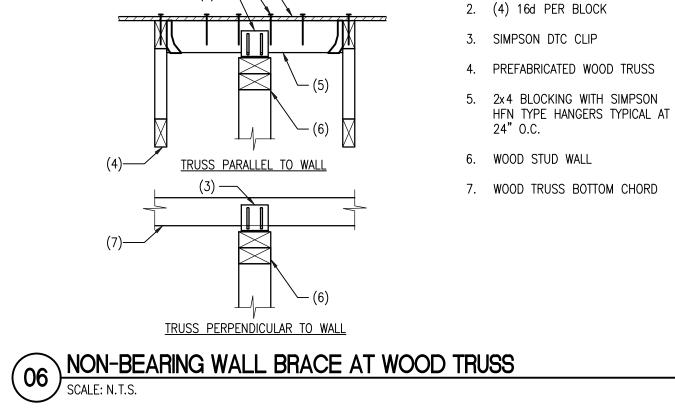
CONTENTS











NOTES:

2. 2x BLOCKING

7. EDGE NAILING

1. PLYWOOD SHEATHING

ARCHITECTURAL FASCIA

5. 2x STRUCTURAL FASCIA

6. (2) 10d EACH OUTRIGGER

8. 2x4 BRACE AT 48" O.C.

9. 2x DOUBLE TOP PLATE

11. PRE-MFR'D WOOD TRUSS

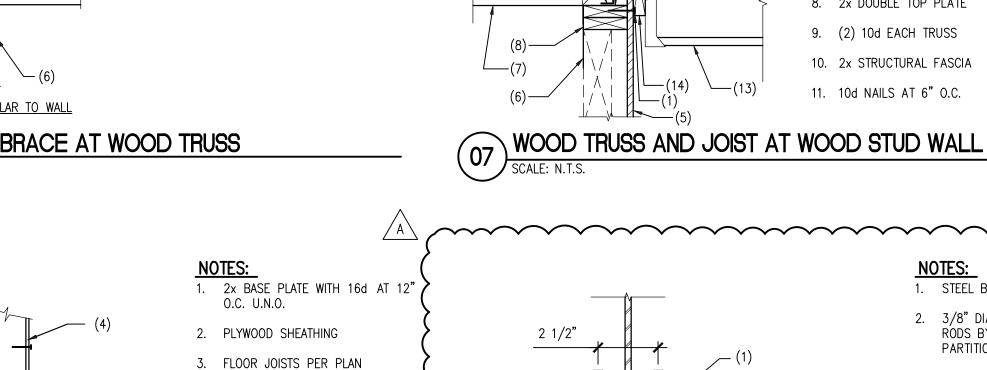
10. WOOD STUD WALL

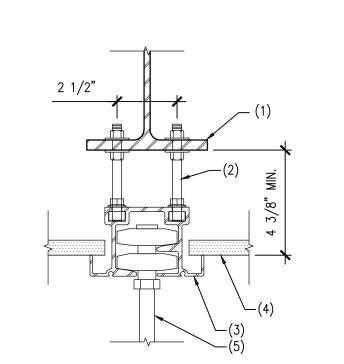
12. (3) 10d EACH END

1. PLYWOOD SHEATHING

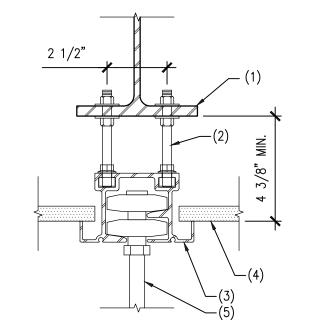
4. 2x4 OUTRIGGERS AT 24" O.C.

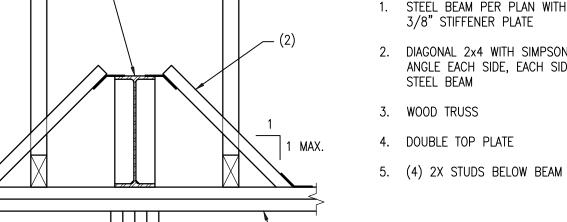




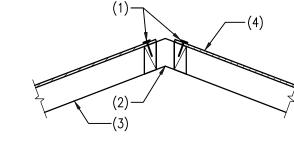


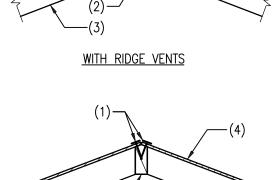
WOOD TRUSS AT WOOD BEAM SCALE: N.T.S.

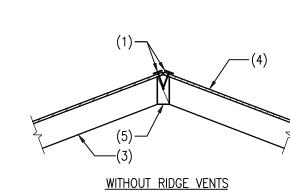




**STEEL BEAM AT WOOD STUD WALL** 







TRUSS RIDGE
SCALE: N.T.S.

NOTES:

TRUSS

4. EDGE NAILING

PER BLOCK

7. WOOD FASCIA PER ARCH

NOTES:

2. PLYWOOD SHEATHING 13. PLYWOOD WEB JOIST

6. HEADER BEYOND AS 15. SIMPSON A35 CLIP AT

STEEL BEAM PER PLAN

2. 3/8" DIAMETER HANGER

RODS BY OPERABLE

PARTITION MANUFACTURER

12. SIMPSON ITS HANGER

PER PLAN

14. 2x10 WOOD LEDGER

WITH (3) ROWS OF

SIMPSON SDS 1/4"x3

1/2" SCREWS AT 6"

O.C. STAGGERED

16" O.C.

WOOD BEAM

NOTES:

EDGE NAILING

3. SOLID 2x BLOCKING

5. WOOD STUD WALL

OCCURS

4. SIMPSON H2.5A EACH

7. WOOD TRUSS PER PLAN

8. 2x DOUBLE TOP PLATE

9. (2) 10d EACH TRUSS

11. 10d NAILS AT 6" O.C.

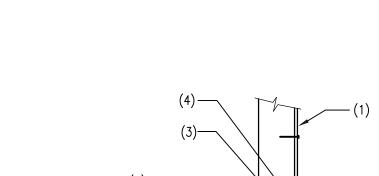
10. 2x STRUCTURAL FASCIA

1. WOOD TRUSS PER PLAN

3. PLYWOOD SHEATHING

2. SIMPSON H2.5 CLIP AT EACH

5. 2x BLOCKING WITH (3) 16d NAILS



NOTES:

1. SHEATHING AS OCCURS

NOTES:

EDGE NAILING

2. RIDGE VENTS

3. WOOD TRUSS PER PLAN

4. PLYWOOD SHEATHING

5. 2x SOLID BLOCKING

2. RIM JOIST WITH WEB FILLER OR SOLID SAWN LUMBER

4. 2x BASE PLATE WITH 16d AT

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ROOF FRAMING DETAILS

M F 6

EDGE NAILING

12" O.C. U.N.O.

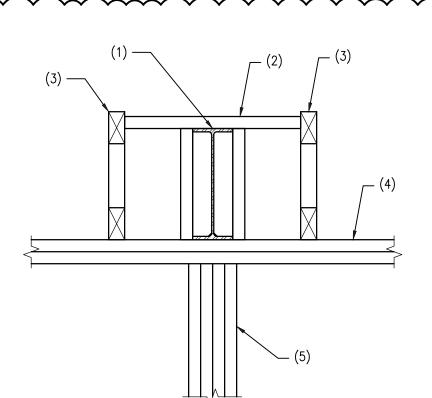
5. PLYWOOD SHEATHING

6. BLOCKING BY JOIST MFR AT 48"

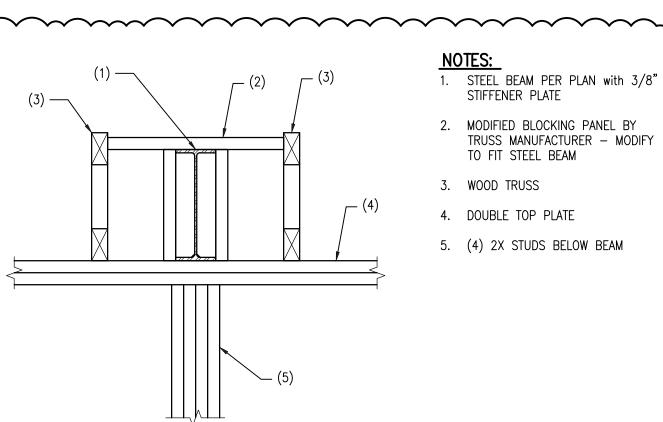
7. FLOOR JOIST PER PLAN

8. 10d AT 6" O.C.





STEEL BEAM AT WOOD STUD WALL







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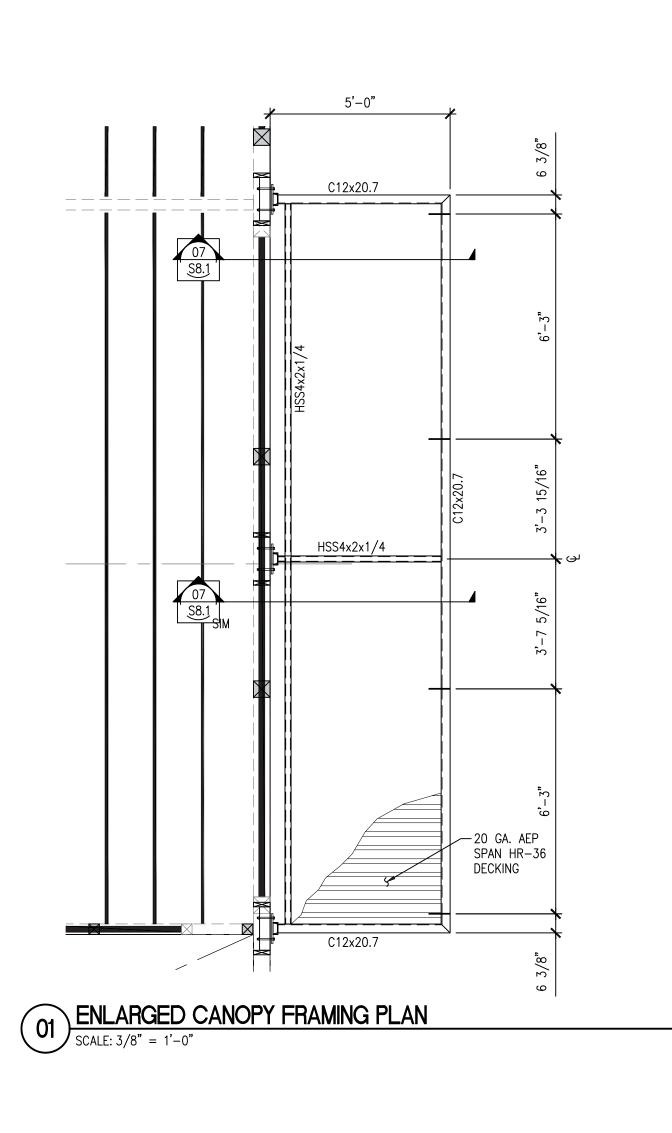
CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY 4815 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sittshill.com/ Project No.: 20327 | Project Mgr.: Proj. Engineer: SME | Proj. Drafter:

4. BLOCKING BY JOIST MANUFACTURER WITH WEB 3. ALUMINUM TRACK BY FILLER OR SOLID SAWN LUMBER 4. SHEATHING AS OCCURS OPERABLE PARTITION MANUFACTURER EDGE NAILING 5. RIM JOIST WITH WEB FILLER BY JOIST MFR. OR SOLID SAWN 4. CEILING PER ARCHITECTURAL 6. 10d AT 6" O.C., 3 NAILS PER BLOCK MIN. 5. WALL ASSEMBLY PER 7. STUD WALL PER PLAN 6. EDGE NAILING OPERABLE PARTITION MANUFACTURER 7. 10d AT 6" O.C., 3 NAILS PER 8. PARAPET TO MATCH CONSTRUCTION OF STUD WALL BELOW - CONTINUE PARAPET STUDS TO BLOCK MIN. TOP PLATE OF WALL BELOW A. SEE ARCHITECTURAL AND OPERABLE PARTITION 9. WEB FILLER PER JOIST MANUFACTURER MANUFACTURER'S DRAWINGS FOR ADDITIONAL 10. 2x6 AT EACH PLYWOOD WEB JOIST WITH (2) INFORMATION. ROWS OF (4) 8d NAILS EVENLY SPACED 11. SIMPSON AS13B PLATE AT EACH JOIST PLYWOOD WEB JOIST AT STUD WALL STEEL BEAM AT OPERABLE WALL 12. 2x12 FASCIA 13. 2x6 AT 24" O.C. 14. SIMPSON A35 AT EACH JOIST 15. SIMPSON LRUZ HANGER 16. GUTTER AND FLASHING PER ARCHITECTURAL 1. STEEL BEAM PER PLAN WITH 1. STEEL BEAM PER PLAN WITH 17. PARAPET CAP PER ARCHITECTURAL 3/8" STIFFENER PLATE 3/8" STIFFENER PLATE 2. BLOCKING BETWEEN TRUSSES PER 2. DIAGONAL 2x4 WITH SIMPSON LS DETAILS ANGLE EACH SIDE, EACH SIDE OF 3. WOOD FLOOR TRUSS 4. PLYWOOD SHEATHING 4. DOUBLE TOP PLATE 5. DOUBLE TOP PLATE

EACH SIDE OF STEEL BEAM ------7. CEILING PER ARCHITECTURAL 8. WOOD STUD INFILL BELOW BEAM 2'-0" MIN. SECTION A-A PLYWOOD WEB JOIST AT PARAPET AND CANOPY

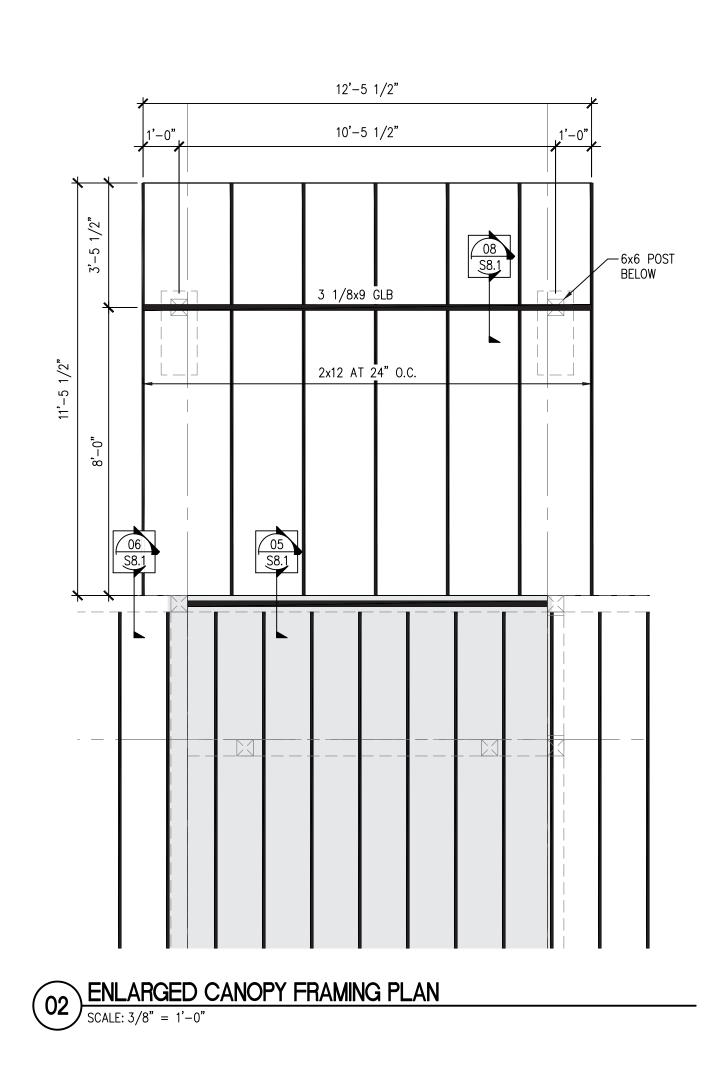
SCALE: N.T.S. STEEL BEAM AT WOOD STUD WALL
SCALF: N T S SCALE: N.T.S.

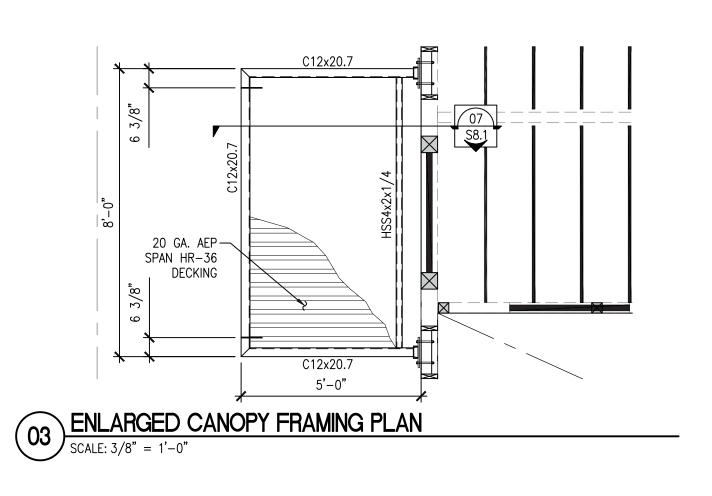
6. ADDITIONAL WOOD STUD AGAINST



3/16

PLAN AT END





NOTES:

1. WOOD STUD WALL

3. PLYWOOD SHEATHING

5. BEAM PER PLAN

RAFTER

GUTTER

11. EDGE NAILING

NOTES:

4. FLOOR TRUSS PER PLAN

2. BASE PLATE AND NAILING PER SHEARWALL SCHEDULE

6. 2x12 LEDGER WITH 1/4" SCREWS AT 12" O.C. STAGGERED

7. SIMPSON L55R HANGER AT EACH

8. RAFTER PER PLAN, NOTCH AT

9. 2x BLOCKING BETWEEN RAFTERS W/(3) 16d NAILS PER BLOCK

10. GUTTER PER ARCHITECTURAL

1. 1/2" PLATE W/ (2) 1/2" THRU-BOLTS

1" DIA. ROD WITH #3 CLEVIS AND
 1" DIA. PIN EACH END

4. 4x12 BLOCKING BETWEEN WALL STUDS WITH HUC HANGERS

5. GUTTER PER ARCHITECTURAL

7. METAL DECK PER PLAN -

10. ADDITIONAL HSS PER PLAN

12. 1/2" PLATE WITH (4) 1/2"

THRU-BOLTS

13. BLOCKING (BEYOND)

11. C4x6.25 — 12 1/2" LONG WITH 1/4" CAP PLATES

14. CANOPY CHANNEL/HSS PER PLAN

ATTACH WITH (3) #12 SCREWS WITH NEOPRENE WASHERS AT

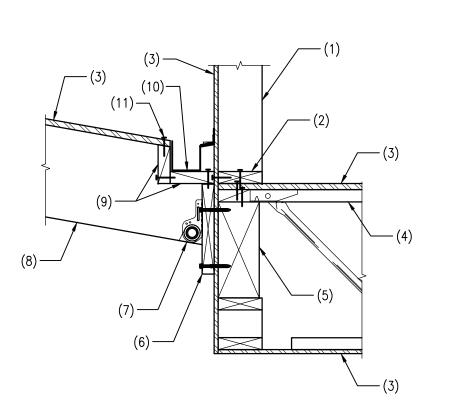
6. CHANNEL PER PLAN

EACH PANEL

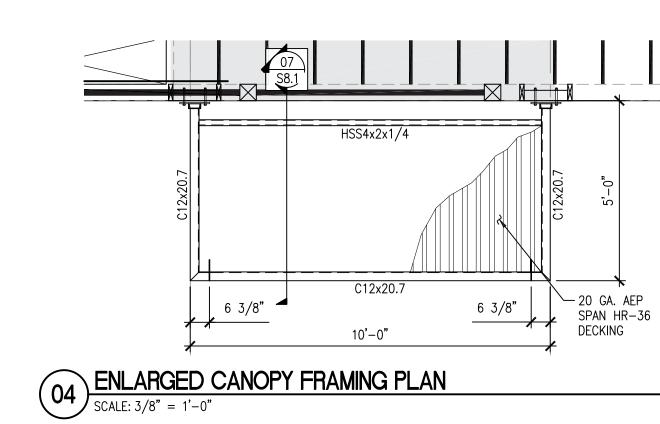
8. CONT. L2x2x3/16"

9. HSS PER PLAN

2. 3/8" x 2 1/2" PLATE







NOTES:

1. SIMPSON HTS20 AT (2) EXTERIOR RAFTERS, NOTCH WALL SHEATHING AS REQUIRED

2. 2x BLOCKING BETWEEN STUDS WITH LUC HANGERS

NOTES:

A. SEE 05/S8.1 FOR CALLOUTS IN COMMON.

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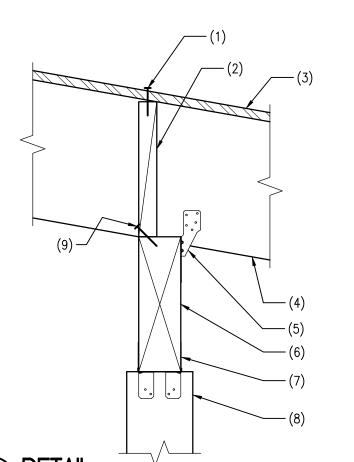
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Z

WOOD RAFTER AT WOOD STUD WALL
SCALE: N.T.S.



1. (3) 16d NAILS PER BLOCK

2. 2x BLOCKING BETWEEN RAFTERS

3. PLYWOOD SHEATHING

RAFTER PER PLAN

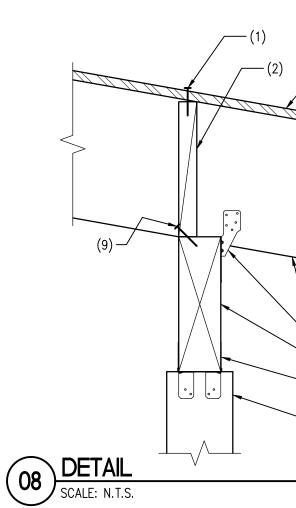
5. H25A AT EACH RAFTER

BEAM PER PLAN

7. LPC 6Z EACH SIDE

8. POST PER PLAN PROVIDE SIMPSON POST BASE AT BOTTOM AND WRAP PER ARCHITECTURAL

9. (3) 16d TOENAILS PER BLOCK



ST. CH/ PARISH

CONTENTS

ENLARGED CANOPY FRAMING PLANS SECTIONS AND DETAILS

REVISIONS

A 06.17.24 PERMIT COMMENTS

SHEET NO:

17 JUNE 2*0*24

PROJECT NO: 22-Ø13

DATE:

DRAWN BY:





CIVIL | STRUCTURAL | ARCHITECTURAL | SURVEY 4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 20327 Project Mgr.: Project No.: Proj. Engineer: SME | Proj. Drafter:

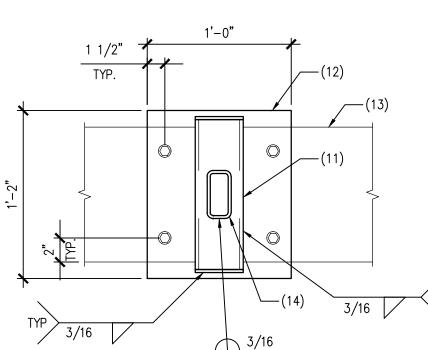
O7 CANOPY DETAILS
SCALE: N.T.S.

3/16

AT SIMILAR

TYP.

A-A SECTION



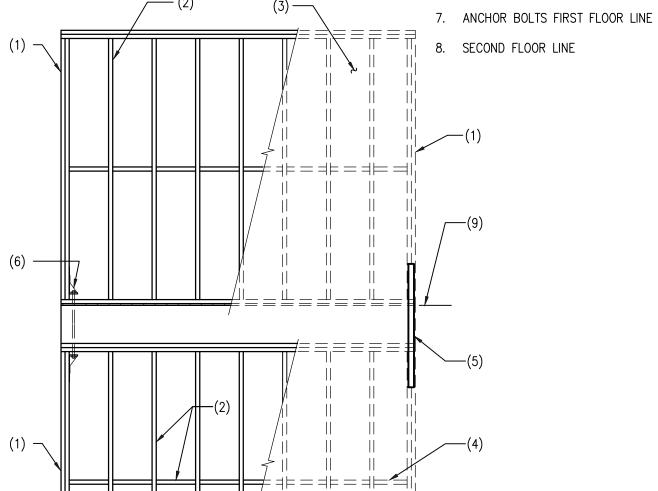
A-A SECTION

MARK	HOLD DOWN	COMMENTS	SEE DETAIL:
H1	MST 37	LOCATE AT DOUBLE STUDS	06/S9.0
H2	MST 48	LOCATE AT DOUBLE STUDS	06/S9.0
НЗ	MSTC 66	LOCATE AT DOUBLE STUDS	06/S9.0
H4	HDU 5	LOCATE AT DOUBLE STUDS	07/S9.0
H5	HDU 14	PROVIDE 4x8 MIN. POST	07/S9.0
Н6	HD 19	PROVIDE 6x6 D.F. #1 POST	07/S9.0

# \ HOLD-DOWN SCHEDULE

1. (2) STUDS, U.N.O. AT EACH END OF PANEL NAILED AS BUILT-UP POST, TYPICAL

- WOOD STUDS
- 3. SHEATHING MATERIAL
- 4. BLOCKING REQUIRED AT SHEATHING PANEL JOINTS
- 5. SIMPSON STRAP PER PLANS AND DETAILS
- 6. HOLD DOWNS AS OCCURS



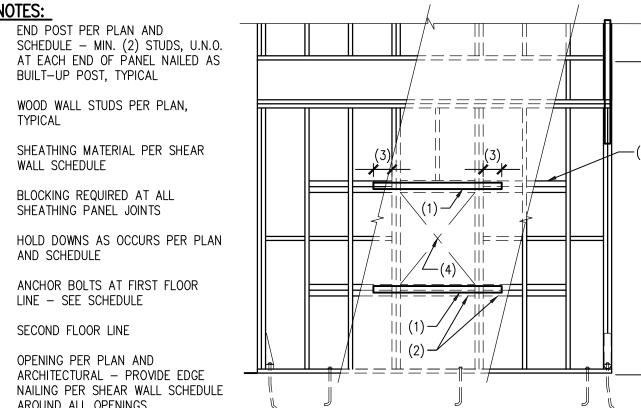
TWO-STORY SHEAR WALL ELEVATION
SCALE: N.T.S.

(8) <sub>|||</sub>

SCALE: N.T.S.

PERFORATED SHEAR WALL ELEVATION

(6) — |||



TYPICAL SHEAR BLOCKING PANEL

SCALE: N.T.S.

- 4. OPENING PER PLAN AND ARCHITECTURAL - PROVIDE EDGE NAILING PER SHEAR WALL SCHEDULE AROUND ALL OPENINGS
- 6. ANCHOR BOLTS AT FIRST FLOOR
- 7. SECOND FLOOR LINE
- AROUND ALL OPENINGS
  - HEADER PER PLAN
- F.T.A.O. SHEAR WALL ELEVATION

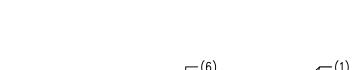
  SCALE: N.T.S.

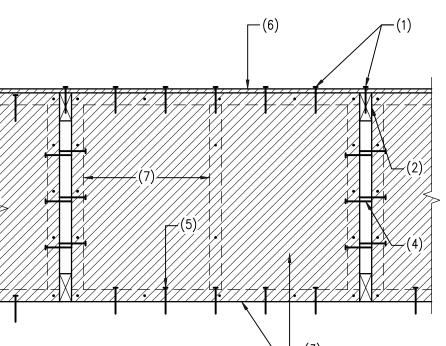
### FOUNDATION ADJACENT SILL PLATE OR BLOCKING AND REMARKS EDGE PANEL BASE PLATE ANCHOR BOLT FLOOR BASE RIM JOIST **EDGES** SIDES NAILING ATTACHMENT WALL MARK SHEATHING NAILING SPACING PLATE ATTACHMENT 5/8" DIA. BOLTS AT 48" SIMPSON A35 (P1-6)1/2" PWD ONE 10d AT 6" 10d AT 12" 16d AT 6" 2x CLIPS AT 18" 5/8" DIA. BOLTS AT 32" 3x OR DBL SIMPSON A35 10d AT 4" | 10d AT 12" 16d AT 3" 1/2" PWD ONE CLIPS AT 12 5/8" DIA. BOLTS AT 12" 5/8" DIA. BOLTS AT 24" SIMPSON A35 (2) 16d AT (P1-3)1/2" PWD ONE 10d AT 3" 10d AT 12" CLIPS AT 8" 5/8" DIA. BOLTS AT 8' F#2 FRAMING 5/8" DIA. BOLTS AT 18" SIMPSON A35 (P1-2)1/2" PWD ONE 10d AT 2" | 10d AT 12" (2) 16d AT 4" **MEMEBERS** CLIPS AT 6" REQUIRED SIMPSON A35 (P2-6)1/2" PWD TWO 10d AT 6" 10d AT 12" (2) 16d AT 4" CLIPS AT 8" SIMPSON LTP4 1/2" PWD TWO 10d AT 4" 10d AT 12" (2) 16d AT 3" (P2-4)CLIPS AT 6" SIMPSON LTP4 10d AT 3" 10d AT 12" 1/2" PWD TWO (2) 16d AT 2" (P2-3)CLIPS AT 4 1/2" SIMPSON 5/8" DIA. BOLTS AT 8" DF#2 FRAMING (P2-2)1/2" PWD TWO 10d AT 2" 10d AT 12" 3x (2) 16d AT 2" HGA10KT **MEMEBERS** CLIPS AT 4" REQUIRED

## **SHEAR WALL SCHEDULE NOTES:**

- 1. FRAMING STUDS SHALL BE HEM-FIR #2 SPACED AT 16" O.C. MAXIMUM. U.N.O. THICKNESS OF STUDS SHALL BE 2x UNLESS OTHERWISE NOTED IN SCHEDULE.
- 2. SHEATHING PANELS MAY BE PLACED VERTICAL OR HORIZONTAL. BLOCK ALL HORIZONTAL EDGES WITH 2x OR 3x BLOCKING TO MATCH STUD WIDTH UNLESS NOTED OTHERWISE.
- 3. ALL EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS SHALL RECEIVE APA RATED SHEATHING, FULLY BLOCKED WITH MINIMUM EDGE ATTACHMENT OF 10d NAILS @ 6" O.C., 12" O.C. FIELD.
- 4. NAILING APPLIES TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.
- MINIMUM ANCHOR BOLT SPACING OF 48" O.C. UNLESS OTHERWISE NOTED IN SCHEDULE. MINIMUM OF 2 ANCHORS PER WALL. PROVIDE 3"x3"x0.229" SQUARE WASHERS AT EACH ANCHOR BETWEEN THE SILL PLATE AND WASHER. A DIAGONAL SLOT IN THE PLATE WASHER MAY BE USED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. DO NOT RECESS BOLTS.
- 6. TABLES BASED ON 10d NAILS (3" LONG x 0.148" COMMON OR 3" LONG x 0.128" GALVANIZED BOX).
- BLOCKING/RIM JOIST ATTACHMENT NEED NOT BE USED WHERE THE SHEATHING IS DIRECTLY ATTACHED WITH EDGE NAILING TO THE DOUBLE TOP PLATES AT UPPER STORY SHEARWALLS AND TO THE BASE/SILL PLATE BELOW AT LOWER STORY SHEARWALLS.
- 8. WHERE 3x BASE/SILL ARE SPECIFIED, 20d COMMON NAILS SHALL BE USED FOR THE BASE PLATE ATTACHMENT IN LIEU OF THE ORIGINALLY SPECIFIED 16d COMMON NAILS.

# SHEAR WALL SCHEDULE O2 SCALE: N.T.S.





2. PREFABRICATED WOOD TRUSS, NOTE: TRUSS MANUFACTURER SHALL PROVIDE VERTICAL WEB TO MATCH LOCATION OF SHEAR 3. 1/2" PLYWOOD SHEAR PANEL

EDGE NAILING

- WITH 10d AT 6" O.C. AT PANEL EDGES AND 10d AT 12" O.C. AT INTERMEDIATE SUPPORTS
- 4. 10d AT 6" O.C. TO TRUSS 5. 16d TO MATCH "EDGE NAILING"
- SPACING 6. PLYWOOD SHEATHING
- 7. 2x4 AT (4) SIDES AND INTERMEDIÁTE
- 8. TOP OF WOOD PLATE

1. SIMPSON STRAP AT OUTSIDE OF

SHEATHING SEE NOTE B FOR

2. BLOCKING AS REQUIRED BY SIMPSON

CONTINUE STRAPS PAST OPENING

A. SEE 08/S9.0 FOR CALLOUTS IN

B. PROVIDE SIMPSON CMST16 ABOVE

AND BELOW ALL OPENINGS AT

FTAO SHEAR WALLS AT SECOND

PROVIDE SIMPSON CMST14 ABOVE

AND BELOW ALL OPENINGS AT

FTAO SHEAR WALLS AT FIRST

25" MIN. AT CMST16 AND 34" MIN.

ADDITIONAL INFORMATION.

STRAP, TYP.

AT CMST14.

COMMON

FLOOR.

# HOLDDOWN STRAP DETAIL SCALF: N.T.S

# **/**-(2)

1. WOOD STUD WALL

SHEAR WALL

FOR CLARITY

NOTES:

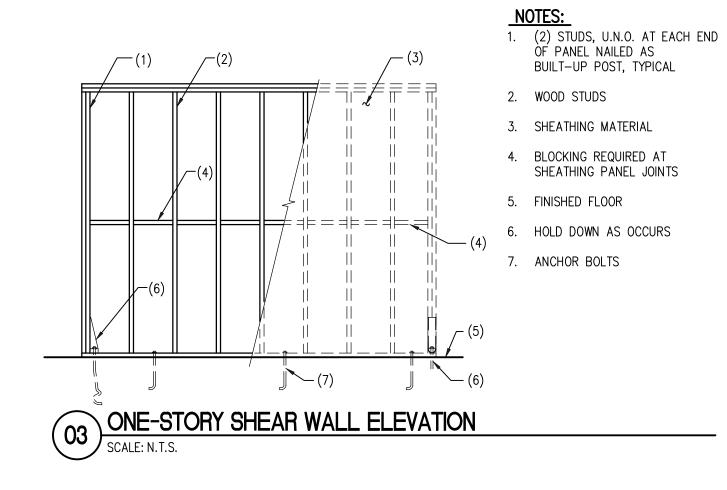
3. STRAP PER SCHEDULE

4. CENTER BETWEEN FLOORS

5. SOLID BLOCK UNDER STRAP

A. WALL SHEATHING NOT SHOWN

2. DOUBLE STUD AT EDGES OF

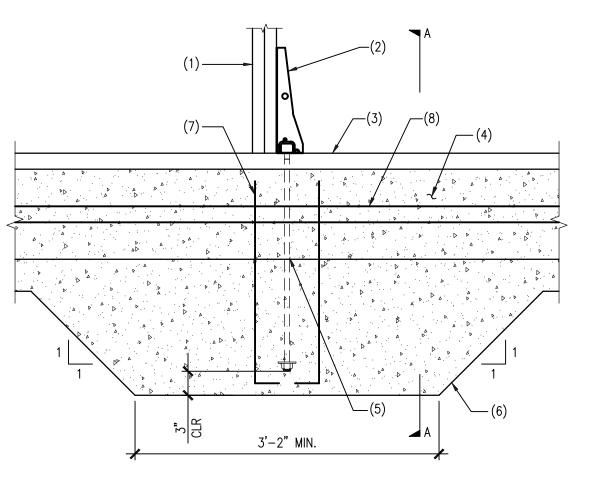


# 1 3/4" CLEAR SECTION A-A

# 1. EDGE MEMBER PER TABLE

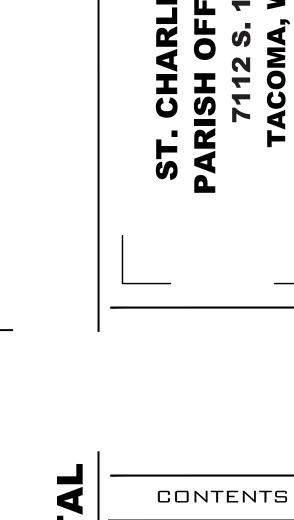
- 2. HDU OR HD TYPE HOLD-DOWN
- 3. CONTINUOUS BOTTOM PLATE
- 4. CONCRETE STEM WALL
- 5. ANCHOR PER TABLE
- 6. THICKEN FOOTING AROUND ANCHOR AS REQUIRED
- 7. (4) #5 BARS VERTICAL HOOK
- 8. (2)  $\#4 \times 4'-0$ " EACH SIDE

IOLDDOWN	ANCHOR	ANCHOR EMBED [IN]	MIN. WOOD MEMBER THICKNESS
HD45	5/8"	8"	(2)2x
HDU14	1"	12"	4x6
HD19	1 1/4"	18"	6x



HOLDDOWN DETAIL

SCALE: N.T.S.



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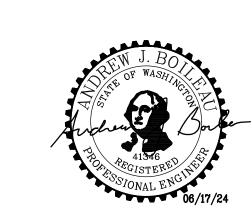
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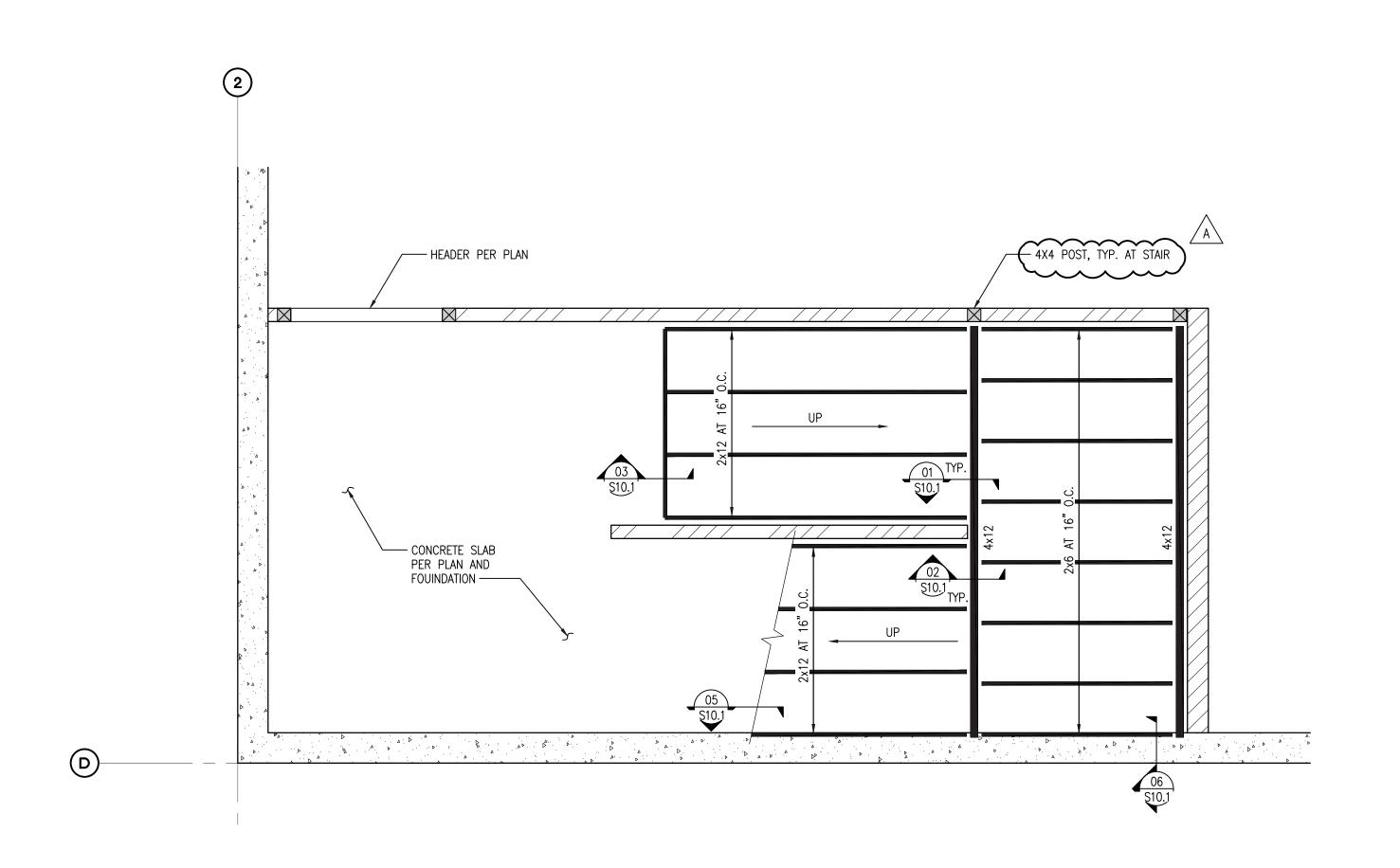
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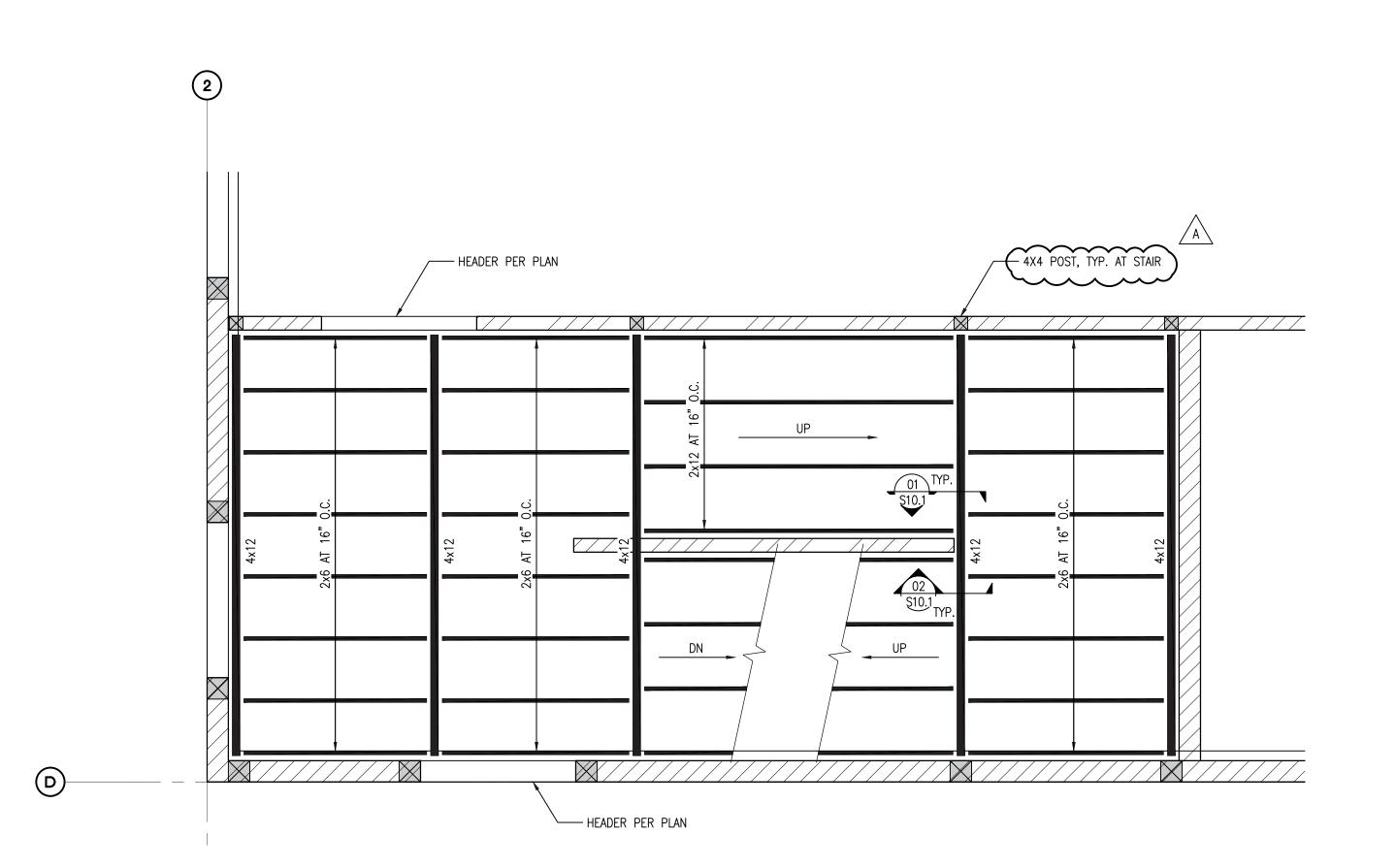




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A 06.17.24 PERMIT COMMENTS PROJECT NO: 22-Ø13 17 JUNE 2024 SHEET NO: S9.0



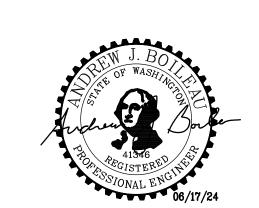


BASEMENT STAIR FRAMING PLAN

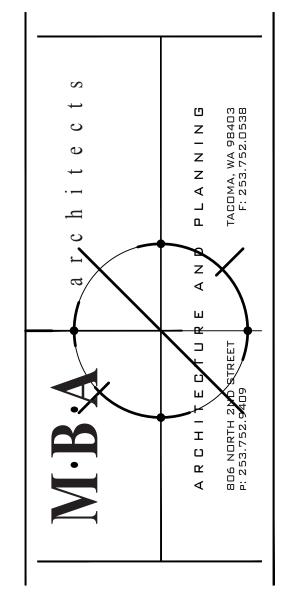
SCALE: 1/2" = 1'-0"

(2)  B FIRST FLOOR STAIR FRAMING PLAN

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







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CONTENTS STAIR FRAMING PLANS

REVISIONS

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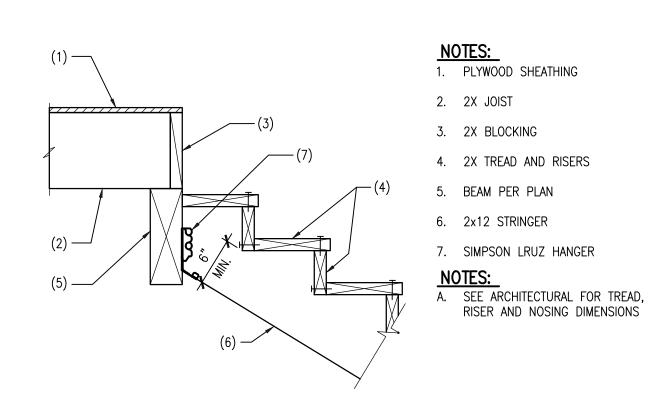
PROJECT NO: 22-Ø13 DATE: 11 JUNE 29 DRAWN BY: 17 JUNE 2024

SHEET NO:

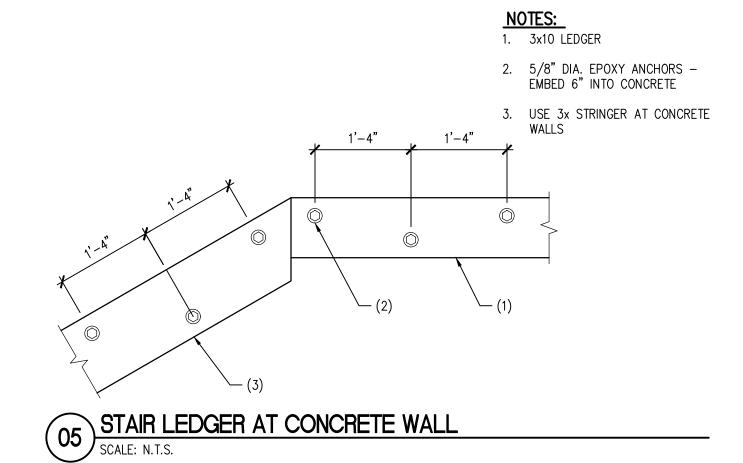
SECOND FLOOR STAIR FRAMING PLAN

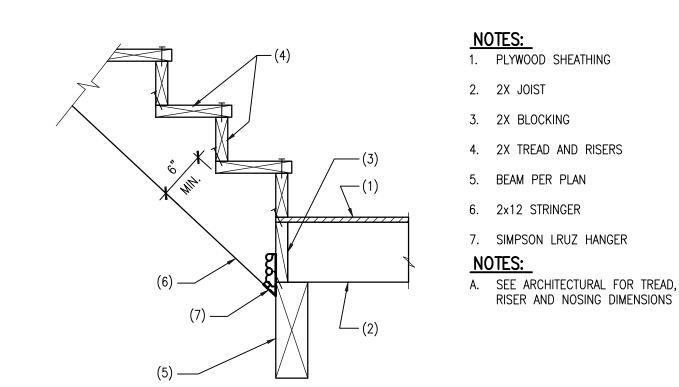
SCALE: 1/2" = 1'-0"

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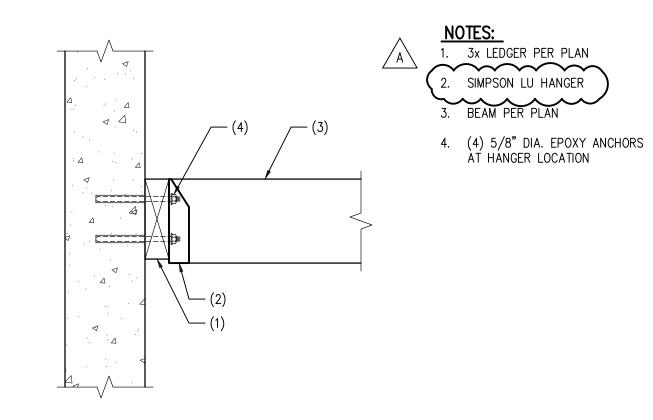


# WOOD STRINGER AT LANDING SCALE: N.T.S.







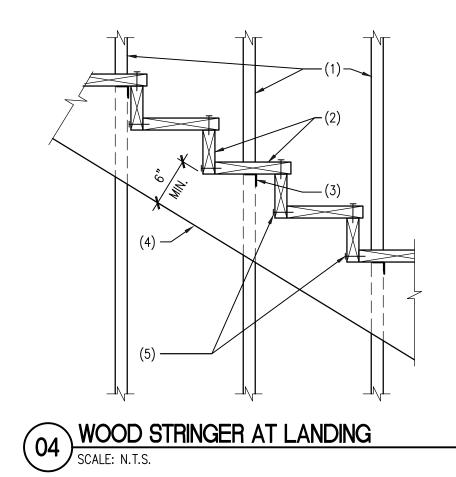


WOOD BEAM AT WOOD LEDGER
SCALE: N.T.S.



- 2. 2x WOOD CARRIAGE 3. ANGLE 3x3x1/4 x 0'-8" WITH (2) 1/2" DIA. EXPANSION BOLTS INTO SLAB AND (2) 3/8" DIA. x 1 1/4
- LAG SCREWS IN STRINGER 4. CONCRETE SLAB ON GRADE
- 5. 16d AT 12" O.C. WHERE SHOWN
- NOTES: A. SEE ARCHITECTURAL FOR TREAD, RISER AND NOSING DIMENSIONS



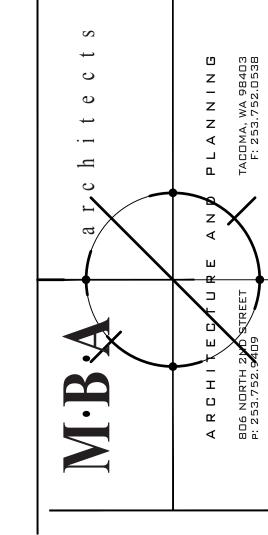


# NOTES: 1. WOOD STUD WALL

- 2. 2X TREAD AND RISERS
- SIMPSON H3 STUD TO STRINGER AT EVERY OTHER STUD
- 4. 2X STRINGER
- 5. 16d AT 12" O.C.

# NOTES:

A. SEE ARCHITECTURAL FOR TREAD, RISER AND NOSING DIMENSIONS

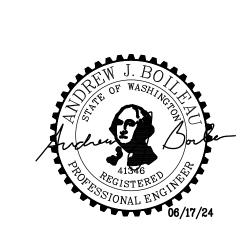


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Proj. Engineer: SME Proj. Drafter:





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CONTENTS

STAIR FRAMING DETAILS