project description:

CONVERSION OF EXISTING 2 CAR CAR PORT INTO A GARAGE WITH AN ADDITION OF A 3RD CAR BAY WITH A RAISED PLATE.

project team:

owner
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project data

property address
7250 N. MERCER WAY
MERCER ISLAND, WA 98040

tax account #: 531510-0052

existing legal description FROM KING COUNTY ACCESSOR:

MC GILVRAS ISLAND ADD & SH LDS LESS SWLY 152 FT PLAT BLOCK: 1 PLAT LOT: 10

OCCUPANCY ZONE LOT SIZE =

R-3 RSA-4 0. 33 ACRES - 14,560 S.F.

23.44.010 <u>IMPERVIOUS SURFACE:</u> EXISTING HOUSE & GARAGE:

 EXISTING HOUSE & GARAGE:
 3,351 S.F.

 EXISTING DRIVE:
 1,305 S.F.

 EXISTING PATIO:
 1,438 S.F.

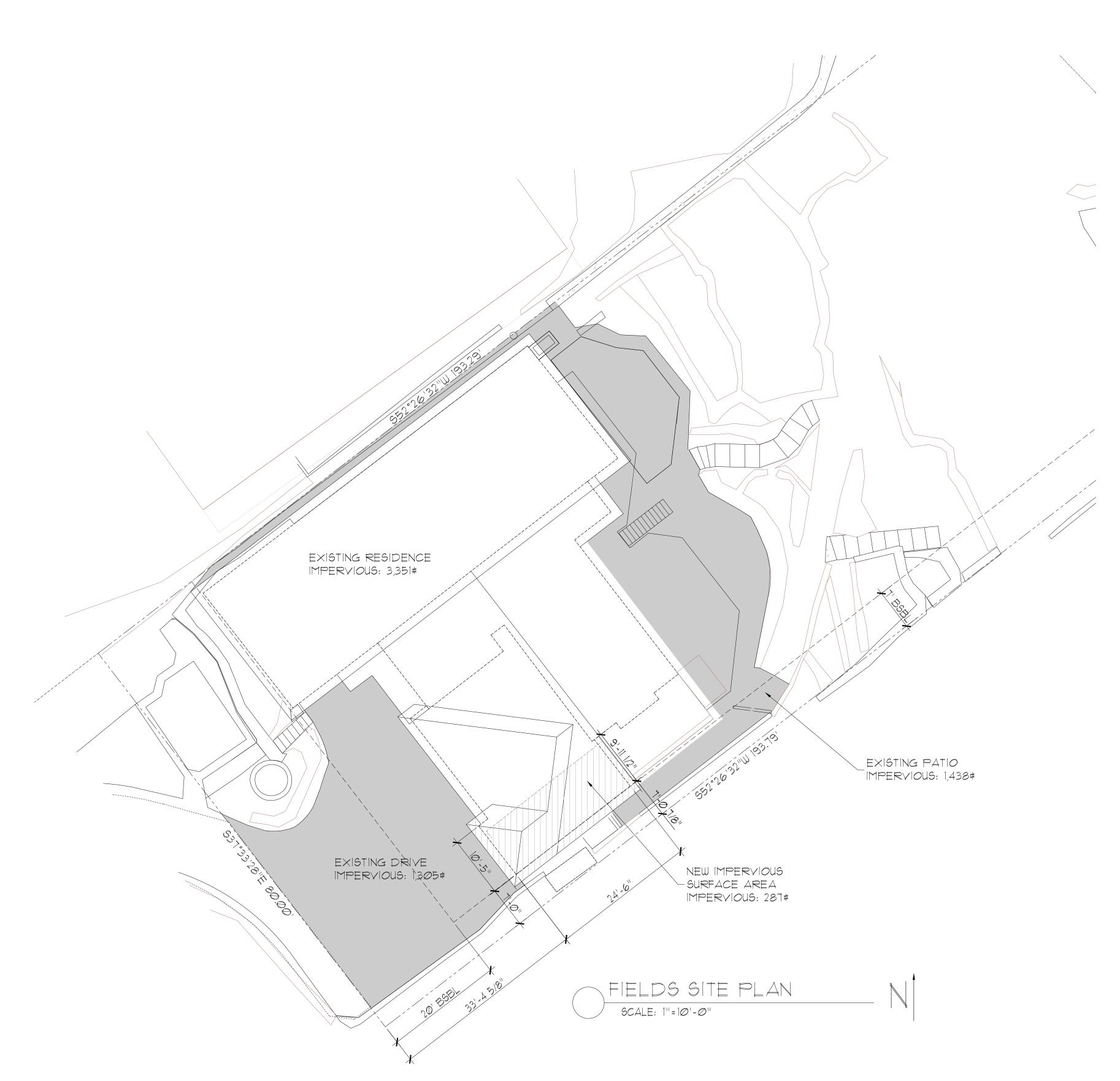
 PROPOSED 3RD CAR BAY:
 287 S.F.

 TOTAL
 6,381 S.F.

 PERCENT
 43.8 %

tree impact

THERE ARE NO TREES THAT ARE AFFECTED BY THE ADDITION ON TO THE EXISTING SINGLE FAMILY RESIDENCE.

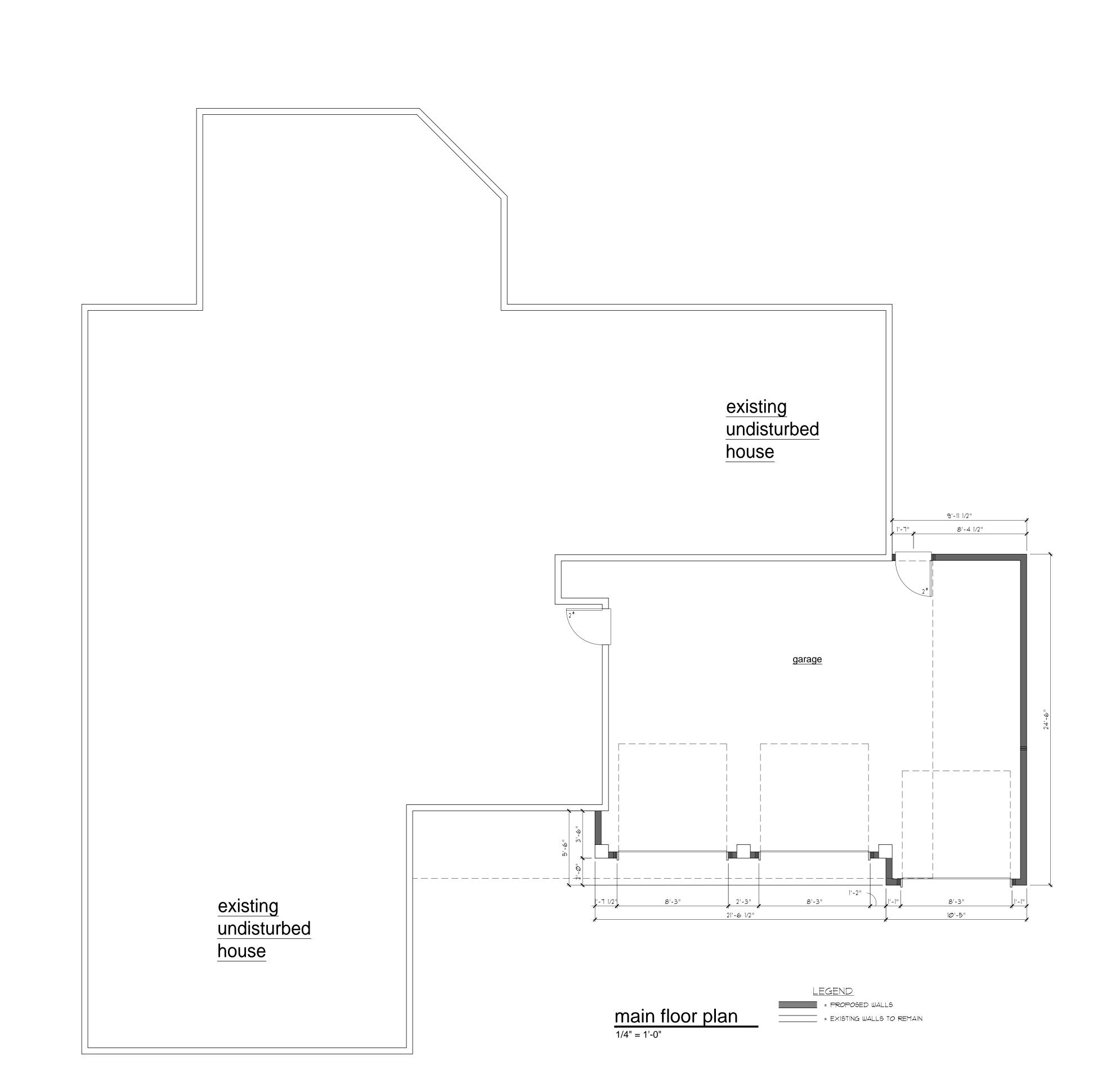


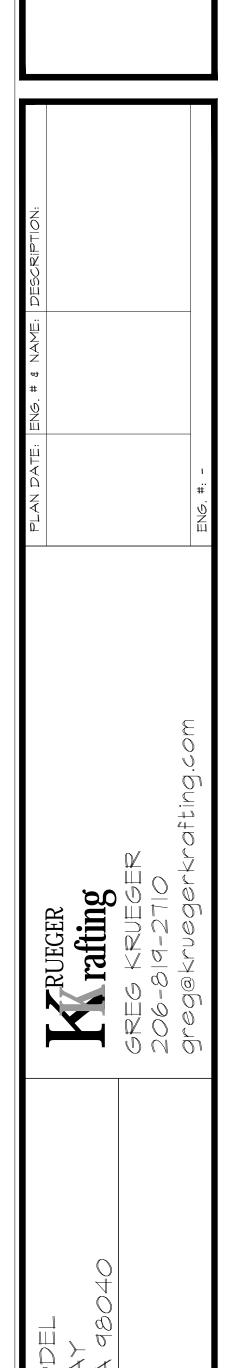


PLAN: FIELDS REMODEL 1250 N. MERCER MAY MERCER ISLAND, MA 98040 SITE PLAN

> FILE NO. 23-08

SHEET





PLAN: FIELDS REMODEL 1250 N. MERCER WAY MERCER ISLAND, WA 98040 MAIN FLOOR PLAN

> FILE NO. 23-08



ROOF PLAN NOTES 1. ALL BEAMS AND HEADERS ARE 4x8 D.F.# 2 (TYP. U.N.O.)

- 2. PRE-MANUFACTURED WOOD TRUSSES @ 24" o.c. (TYP. U.N.O.) 3. PROVIDE SIMPSON HI HURRICANE TIE @ EACH END OF TRUSS. PROVIDE (2) H2.5's @ EACH END OF 2-PLY AND GREATER GIRDER TRUSSES.(SIMPSON HARDWARE OR EQUIV.) 4. ROOF SHEATHING SHALL BE 7/16" T&G OSB APPLIED W/ LONG
- DIMENSION ACROSS TRUSSES OR RAFTERS. STAGGER END JOINTS. 8d COMMON NAIL @ 6" o.c. ALL PANEL EDGES AND OVER ALL SHEAR WALLS AND DRAG TRUSSES w/8d NAILS @ 12" O.C. @FIELD. 5. PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENERS HAVE BEEN INSTALLED.
- 6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE
- T. VENT (V.T.O.) CUT-OUT 8. SHADED AREA INDICATES OVER-FRAMING.

WOOD TRUSS NOTES. (PER I.R.C. SECTION R802.10.) TRUSS DESIGN DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIVERED TO THE JOB SITE AND SHALL BE ON THE JOB SITE.

ENGINEERING DATA AND DETAILS SHALL BE APPROVED BY THE BUILDING OFFICIAL BEFORE INSTALLATION.

TRUSSES SHALL BE DESIGNED BY A REGISTERED WASHINGTON STATE ENGINEER. STRESS ANALYSIS, DRAWINGS AND DETAILS SHALL BE STAMPED BY AN APPROVED STATE OF WASHINGTON REGISTERED ENGINEER AND FABRICATED FROM ONLY THESE DESIGNS.

ROOF TRUSSES SHALL BE FRAMED AND TIED INTO THE FRAMEWORK AND SUPPORTING WALLS SO AS TO FORM AN INTEGRAL PART OF THE WHOLE BUILDING.

ROOF TRUSSES SHALL HAVE JOINTS WELL FITTED AND SHALL HAVE TENSION MEMBERS WELL TIGHTENED BEFORE ANY LOAD IS PLACED UPON THE TRUSS. DIAGONAL AND SWAY BRACING SHALL BE USED TO BRACE ALL TRUSSES.

PRE-MANUFACTURED TRUSSES TO BE STAMPED BY THE MANUFACTURER OR BY A QUALITY CONTROL AGENCY SUCH AS THE WASHINGTON STATE TRUSS FABRICATORS COUNCIL. TRUSS INFORMATION PERMANENTLY AFFIXED TO EACH TRUSS SHALL CONTAIN TRUSS MANUFACTURER'S IDENTIFICATION, DESIGN LOAD AND TRUSS SPACING.

NONBEARING WALLS SHALL BE HELD AWAY FROM THE TRUSS BOTTOM CHORD WITH AN APPROVED FASTENERS TO ENSURE THAT THE TRUSS BOTTOM CHORD WILL NOT BEAR ON THE WALL.

ALL TRUSS BOTTOM CHORDS TO BE DESIGNED AS ATTICS WITHOUT STORAGE (10 PSF LL). TRUSSES SHALL BE DESIGNED WITH A BOTTOM CHORD OPENING LESS THAN 42"x24" WHERE (2) OR MORE ADJACENT TRUSSES HAVE THE SAME WEB CONFIGURATION.

STICK BUILT OVER-FRAMING:

1. 2×4 HF#2 RAFTERS @ 24"o.c.

PREVENT BUCKLING

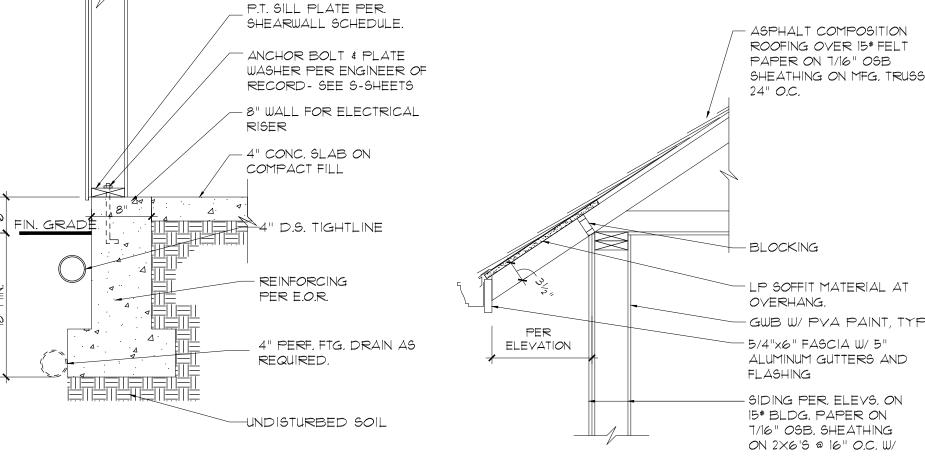
2. 2x4 HF#2 POST SUPPORT FOR RAFTERS, STAGGER @ 48" O.C. 3. BRACE POST OVER 6'-0" LONG (IN 2x FLAT DIRECTION) TO

D.S. LEGEND

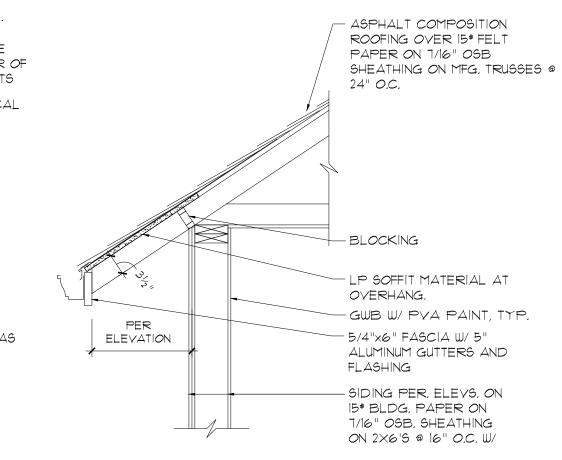
D.S. = DOWNSPOUT TO GRADE 2. D.S. = DOWNSPOUT TO LOWER ROOF

> -BUILDING PAPER PER. IRC. SECTION RTØ3 CODE. ~2×6 WALL W/ R-21 INSUL. -SHEATHING PER PLAN -SIDING -DOWNSPOUT STRAP -DOWNSPOUT -1x3 BUTT TO 1x4 - CORNER FRAMING PER PLAN -BUILDING PAPER PER. IBC./IRC. CODE. FRONT OF HOUSE -OVERLAP CORNERS W/ BUILDING PAPER PER. IRC. CODE. RTØ3. -DISCHARGE TO APPROVED DRAINAGE SYSTEM. IRC

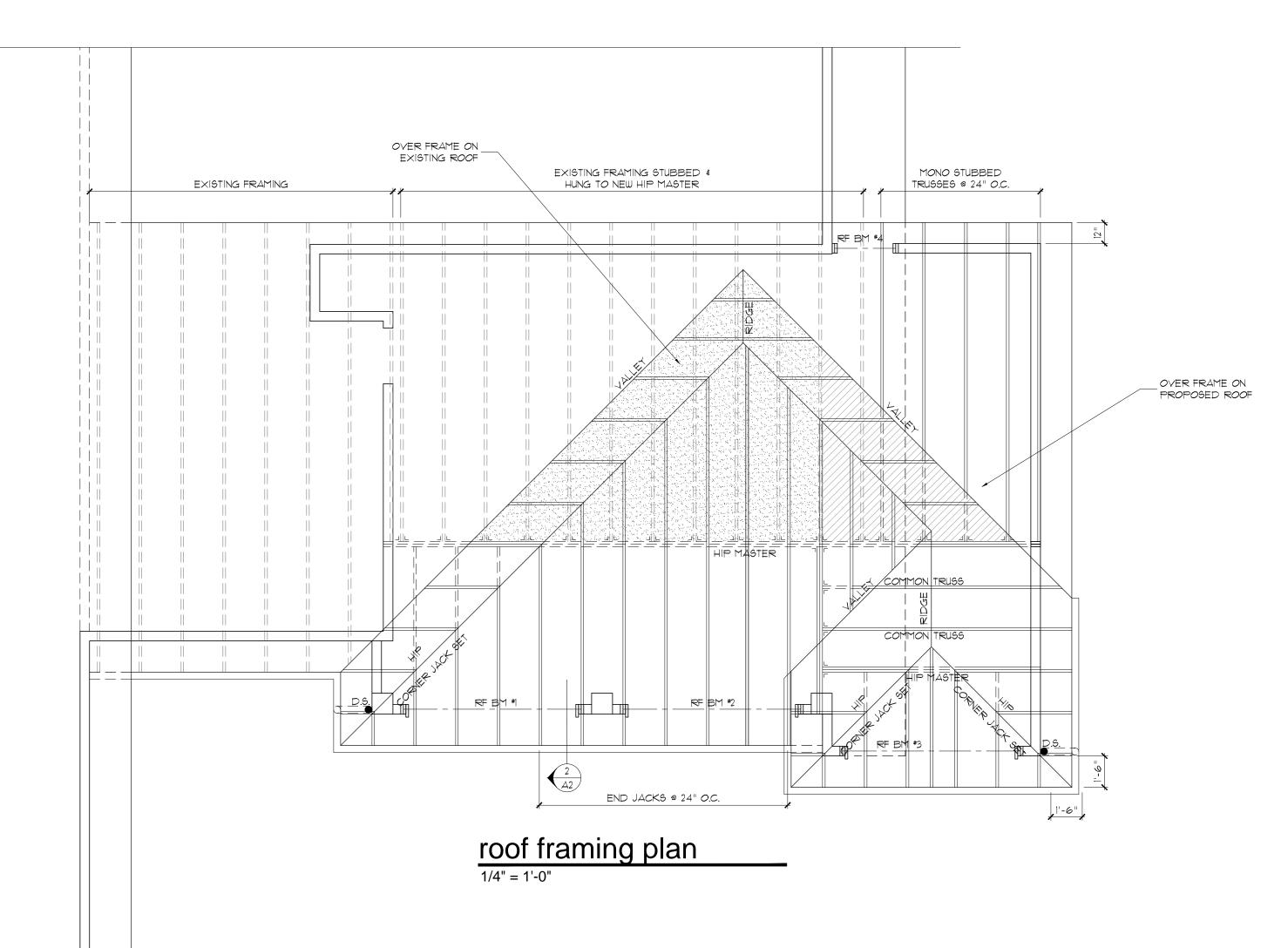
DOWNSPOUT DETAIL

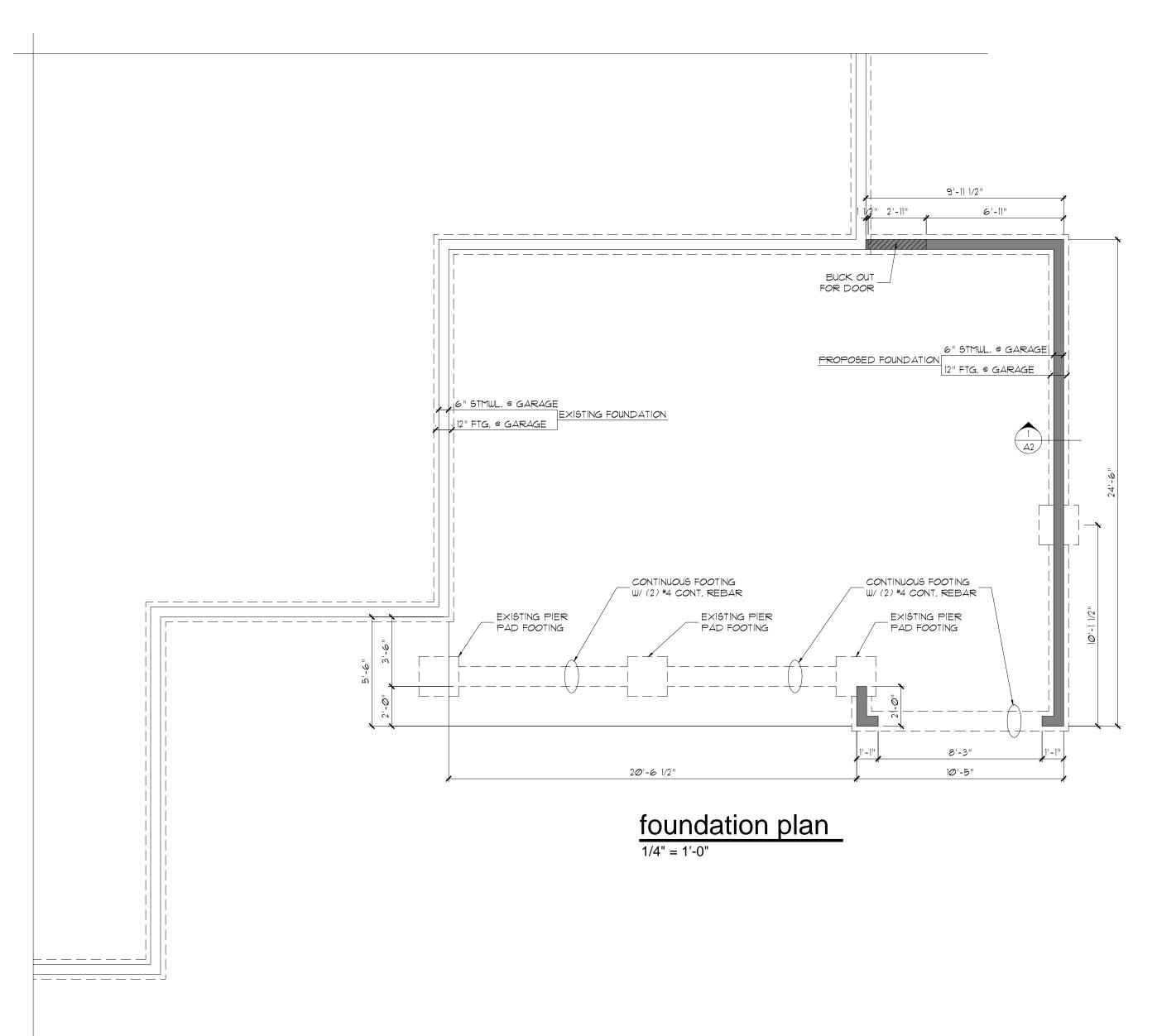


TYPICAL FOUNDATION



RUSS EAVE / 3/4"=1'-*0*"





TYPICAL FOUNDATION NOTES

1. USE 4x4 DF#2 POSTS UNDER ALL BEAMS (4x6 @ SPLICE

LOCATIONS), TYP. U.N.O.

2. SEE 5-SHEETS FOR TYP. PONY WALL CONSTRUCTION AND HOLDOWN @ PONY WALLS.

3. SILL PLATES AND POSTS MUST BE 6" ABOVE EXPOSED EARTH. (BEAMS MUST BE 12" AND TRUSSES 18"). WOOD FRAMING IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR SEPARATED WITH AN APPROVED VAPOR BARRIER. 4. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL AT

LEAST 18" BELOW FINISHED ADJACENT GRADE AT EXTERIOR. 5. PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PER-

MANENT CONNECTIONS AND STIFFENERS HAVE BEEN INSTALLED. 6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMEN-SIONS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.

1. 2x6 (SBX) P.T. SILL PLATE (SODIUM BORATE PRESSURE TREATED) WITH ANCHOR BOLTS PER SHEAR SCHEDULE AND 3"x3"x0.229" PLATE WASHERS. EMBED ANCHOR BOLTS 1" MINIMUM INTO CONC.

8. SLOPE GARAGE SLAB 1/8" (3" MIN.) PER FOOT TOWARD DOORS 9. SLOPE ALL PORCHES, PATIOS, STOOPS AND HARD-SCAPE

MATERIAL AWAY FROM BUILDING MIN. 1/4" PER FOOT - TYP. 10. PROVIDE 1X4 SLEEPERS AT RAISED STEM WALLS WHERE SIDING EXTEND TO 6" (MIN.) ABOYE GARAGE, 2" (MIN.) ABOYE CONCRETE

HARDSCAPE, ALSO AT FRONT FOR GARAGE DOOR LINER INSTALL.



RUEGER rafting GREG KRUEGER

S REMODEL
RCER MAY
AND, MA 98040

MERCER ISLAND, WA

FILE NO. 23-08

SHEET

BUILDING CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE

ROOF DEAD LOAD = 20 PSF ROOF LIVE LOAD = 25 PSF (SNOW) LATERAL LOADS: IMPORTANCE FACTOR $(I_{W}, I_{F}) =$ 1.0 110 MPH BASIC WIND SPEED = EXPOSURE = SEISMIC: SEISMIC DESIGN CATEGORY = RESPONSE MODIFICATION FACTOR (R)= 6.5

SHORT PERIOD ACCELERATION $(S_{DS}) = 1.108$

PRIME CONTRACT DRAWINGS:

THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS, SHORING, SURVEYING, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LANDSCAPING, AMONG OTHERS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ADDITIONAL REQUIREMENTS.

<u>DIMENSION VERIFICATION/CONFLICTS:</u>

CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRID LOCATIONS, PROPERTY LINE LOCATIONS, FLOOR ELEVATIONS, FOOTING ELEVATIONS, DEPRESSIONS, WITH THE ARCHITECTURAL, CIVIL AND SURVEY DRAWINGS, DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.

TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. SOME TYPICAL DETAILS ARE CUT OR OTHERWISE REFERENCED IN THE DRAWINGS HOWEVER MOST ARE NOT. WHERE SPECIFIC DETAILS ARE NOTED ON THE DRAWINGS THE SPECIFIC DETAIL SHALL BE USED. WHERE NO DETAIL IS NOTED IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CHOOSE THE APPROPRIATE DETAIL FROM THOSE PROVIDED.

FOUNDATIONS:

SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL 18" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1,500 PSF.

MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 3,000 PSI TO COMPLY WITH EXPOSURE REQUIREMENT OF IBC TABLE 1904.2 STRUCTURAL DESIGN IS BASED ON I'C OF 2,500 PSI. PER IBC 1705.3., NO SPECIAL INSPECTION REQUIRED.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO A.C.I. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AT TRENCHES, FLOOR DUCTS, TURNDOWNS, ETC. MAXIMUM SLUMP 4-1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT COLD JOINTS. ALL OTHER JOINTS MAY BE SAW CUT.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, 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 OR ARCHITECTURALLY EXPOSED CONCRETE.

ASTM A615 (Fv = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 (Fv = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST A.C.I. CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
EXPOSED TO EARTH OR WEATHER	
#6 OR LARGER	2"
#5 AND SMALLER	1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318	

LAP SPLICES IN CONCRETE:

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" (LSB) TENSION LAP SPLICES PER LATEST EDITION OF A.C.I. 318. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION.

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 BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

BAR Ld Ld TOP LSB LSB TOP Ldh Ldc TO # (IN) (IN) (IN) (IN) (IN) (IN)						
3	12	16	16	22	6	8
4	18	24	24	32	8	12
5	24	30	30	38	11	15

STRUCTURAL STEEL:

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION.

FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.

MATERIAL PROPERTIES:

WIDE FLANGE SECTIONS	ASTM A992	Fy = 50 KSI
OTHER SHAPES AND PLATE	ASTM A36	Fy = 36 KSI
HOLLOW STRUCTURAL SECTIONS	ASTM A500 GRADE B	Fy = 46 KSI
STRUCTURAL STEEL PIPE	ASTM A53 GRADE B	Fy = 36 KSI
ANCHOR BOLTS	ASTM F 1554	GRADE 55
MACHINE BOLTS	ASTM A 307	GRADE A

ALL BOLTS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 36. ALL CONSTRUCTION PER LATEST AISC HANDBOOK. ALL EXPANSION AND EPOXY BOLTS TO HAVE I.C.C. RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC., SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF

WOOD:

SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE THE FOLLOWING UNADJUSTED DESIGN MINIMUM PROPERTIES

JOISTS & RAFTERS:	WOOD TYPE:
ALL	DF #2
BEAMS:	
ALL	DF #2
LEDGERS AND PLATES:	HF #2
STUDS:	
ALL	HF #2
POSTS:	
4X4	HF #2
4X6 OR LARGER	DF #2
PRESSURE TREATED JOISTS, BEAMS, AND POSTS:	
ALL	HF #2

PLYWOOD:

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. (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD). 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 A.N.S.I./A.S.M.F. B18.6.1 OF GRADE ASTM A584, GRADE 1013 TO 1022 STEEL (FY=193.600 PSL). HORIZONTAL DIAPHRAGM AND SHEARWALL CAPACITIES SHALL BE PER THE LATEST EDITION OF I.C.C. REPORT ESR-1539. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SHALL HAVE THE FOLLOWING SPAN/INDEX RATIO, AND SHALL BE ATTACHED AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE:	THICKNESS:	SPAN/INDEX RATIO:	EDGE ATTACHMENT:	INTERMEDIATE ATTACHMENT:
ROOF	7/16"	32/16	8d NAILS @ 6" O.C.	8d NAILS @ 12" O.C.
FLOOR	3/4" T & G	40/20	SCREWS @ 6" O.C.	SCREWS @ 12" O.C.
SHEAR WALL	7/16"	24/0	8d NAILS @ 6" O.C.	8d NAILS @ 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 I.C.C. APPROVAL AS A REPLACEMENT FOR 10d NAILS IN WOOD PANEL DIAPHRAGMS. SCREWS PER I.C.C. ER-5280 OR APPROVED EQUAL. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORT MEMBERS WITH AN A.P.A. AFG-01 OR ASTM D3498 QUALIFIED GLUE IN ACCORDANCE WITH A.P.A. FORM E30.

ALTERNATE SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. RATED SHEATHING SHALL COMPLY WITH I.C.C. ESR-1301, EXPOSURE 1, AND SHALL HAVE A SPAN RATING AND SHEAR VALUE EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PLYWOOD PER MANUFACTURER'S RECOMMENDATIONS.

<u>NAILING:</u>

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 MEETING THE REQUIREMENTS OF I.C.C. 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 UNLESS NOTED OTHERWISE TO MEET THE REQUIREMENTS OF I.B.C. SECTION 2304.9.5. NAILS SPECIFIED BY PENNYWEIGHT SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PENNYWEIGHT:	SHANK DIAMETER:	NAIL BENDING YIELD STRENGTH (Fyb):
8d	0.131"	100,000 PSI
10d	0.148"	90,000 PSI
16d	0.162"	90,000 PSI

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. CONTINUOUS BEAMS OR BEAMS CANTILEVERING OVER SUPPORTS 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 TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS.

WOOD GENERAL:

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. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS DIRECTLY ATTACHED TO THE TOP AND BOTTOM PLATES WITH EDGE NAILING. PROVIDE 2x SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. ALL FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESSURE TREATED WOOD SHALL BE RETREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL. ALL WOOD CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT WOOD SHALL BE: "Z-MAX", HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR APPROVED EQUAL, TYPICAL UNLESS NOTED OTHERWISE. TYPICAL CONNECTIONS SHALL USE THE FOLLOWING SIMPSON STRONG-TIE CONNECTORS, UNLESS NOTED OTHERWISE:

CONNECTION TYPE	POST TO FOUNDATION	POST TO BEAM	JOIST TO BEAM	BEAM TO BEAM
TYPICAL CONNECTOR	PBS TYPE POST BASE	PC TYPE POST CAP	LU TYPE HANGER	HU TYPE HANGER

HANGERS SHALL BE THOSE SIZED FOR THE APPLICABLE FRAMING MEMBER. I.E.—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.

PREFABRICATED FLOOR AND ROOF TRUSSES:

PREFABRICATED TRUSSES ARE DEFERRED SUBMITTAL ITEMS TO BE DESIGNED BY A PROFESSIONAL ENGINEER. FABRICATED AND INSTALLED PER THE LATEST TRUSS PLATE INSTITUTE STANDARDS. FABRICATOR TO PROVIDE ALL CONNECTION DESIGN AND DETAILS. ROOF TRUSSES SHALL BE DESIGNED FOR THE SNOW LOAD SPECIFIED IN THESE DOCUMENTS AND ANY ATTIC LIVE LOADS THAT ARE APPLICABLE PER IRC TABLE R301.5. WHERE ROOF TRUSSES ARE NOT PROVIDED TO COMPLETE THE SYSTEM, OVERFRAMING MEMBERS AND THEIR CONNECTIONS SHALL BE PROVIDED. OVERFRAMING DETAILS SHALL BE INCLUDED IN THE ROOF TRUSS SHOP DRAWINGS IN ORDER TO PROVIDE LOADING CONDITIONS CONSISTENT WITH THE MODELING OF THE TRUSSES. THE OVERFRAMING AND RELATED DETAILS SHALL BE DESIGNED UNDER THE DIRECTION OF THE TRUSS ENGINEER. WHERE ROOF/FLOOR TRUSSES ALIGN WITH SHEAR WALLS, A SPECIAL TRUSS SHALL BE PROVIDED THAT HAS BEEN DESIGNED TO TRANSFER THE SPECIFIC WIND AND SEISMIC LOADS SHOWN ON THE PLANS. THE TRUSS SHALL BE DESIGNED TO TRANSFER LOADS BETWEEN THE ROOF/FLOOR SHEATHING AND THE SHEAR WALL BELOW. TRUSSES SHALL BE DESIGNED TO TRANSFER A MINIMUM OF 150 PLF ALONG THE LENGTH OF THE TRUSS. ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSS ELEMENTS UNDER GRAVITY LOADS AND IN-PLANE WIND OR SEISMIC LOADS SHALL BE DESIGNED BY THE TRUSS ENGINEER. WHERE THE TOP CHORD IS NOT DIRECTLY ATTACHED TO SHEATHING, THE TRUSS ENGINEER SHALL DESIGN AND SHOW THE PLACEMENT OF ALL REQUIRED TOP CHORD BRACING AND CONNECTIONS ON THE TRUSS SHOP DRAWINGS. ANY BRACING LOADS TRANSFERRED TO THE MAIN BUILDING SYSTEM SHALL BE IDENTIFIED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE ENGINEER OF RECORD PRIOR TO SUBMITTING TO THE BUILDING OFFICIAL FOR APPROVAL. NO CUTTING DRILLING OR NOTCHING OF TRUSSES SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE TRUSS DESIGN ENGINEER. TRUSS INSTILLATION AND BRACING DRAWINGS FROM THE TRUSS DESIGNER SHALL BE AVAILABLE ON THE JOB SITE FOR REVIEW BY THE BUILDING OFFICIAL. IF THE TRUSS MANUFACTURERS INSTILLATION DRAWINGS ARE NOT AVAILABLE THEN THE CONTRACTOR SHALL HAVE ON SITE, AND TRUSSES SHALL BE INSTALLED PER THE LATEST EDITION OF BCSI "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES".

<u>GENERAL:</u>

THE PROJECT.

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 NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.

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 FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND OR ADDENDA.

ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND

RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND

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

TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS. BUT APPLY UNLESS NOTED OTHERWISE. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND 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.

ABBREVIATIONS

ACI AISC ALT APA APPROX ARCH AWS	AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONST. ALTERNATE AMERICAN PLYWOOD ASSOCIATION APPROXIMATE ARCHITECT, ARCHITECTURAL AMERICAN WELDING SOCIETY	EW FDN FF FT FTG GALV GLB	EACH WAY FOUNDATION FINISH FACE, FINISH FLOOR FEET FOOTING GALVANIZED GLUE LAMINATED BEAM	OC OD OSB PCF PERP PL PLF	ON CENTER OUTSIDE DIAMETER ORIENTED STRAND BOARD POUNDS PER CUBIC FOOT PERPENDICULAR PLATE, PROPERTY LINE POUNDS PER LINEAL FOOT
BLDG	BUILDING	GWB	GYPSUM WALL BOARD	PREFAB	PREFABRICATED
		HORIZ	HORIZONTAL	PSF	POUNDS PER SQUARE FOOT
CANT	CANTILEVERED			PSI	POUNDS PER SQUARE INCH
CC	CENTER TO CENTER	IBC	INTERNATIONAL BUILDING CODE	PT	PRESSURE TREATED
CG	CENTER OF GRAVITY	ID	INSIDE DIAMETER	R	RADIUS
CL	CENTERLINE	IN	INCH	REBAR	REINFORCING STEEL BARS
CLR	CLEAR	K	KIPS (1000 POUNDS)	REQD	REQUIRED
COL	COLUMN	KSF	KIPS PER SQUARE FOOT		
CONC	CONCRETE	KSI	KIPS PER SQUARE INCH	SCHED	SCHEDULE
CONST	CONSTRUCTION			SIM	SIMILAR
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	LB	POUND	SOG	SLAB ON GRADE
CY	CUBIC YARD	Ld	DEVELOPMENT LENGTH	SQ	SQUARE
		Ldc	COMPRESSION DEVELOPMENT LENGTH	SW	SHEAR WALL
d	PENNYWEIGHT (NAILS)	Ldh	HOOK DEVELOPMENT LENGTH		
DEMO	DEMOLISH, DEMOLITION	LF	LINEAL FOOT	T&B	TOP AND BOTTOM
DF	DOUGLAS FIR	LL	LIVE LOAD	T&G	TONGUE AND GROOVE
DIA	DIAMETER	LSB	LAP SPLICE TYPE B	TYP	TYPICAL
DIM	DIMENSION	LSL	LAMINATED STRAND LUMBER	UNO	UNLESS NOTED OTHERWISE
DL	DEAD LOAD	LVL	LAMINATED VENEER LUMBER	VERT	VERTICAL
DWG	DRAWING				
		MAX	MAXIMUM	W	WIDTH, WIDE FLANGE
EX	EXISTING	MFR	MANUFACTURER	W/	WITH
ELEV	ELEVATION	MIN	MINIMUM	w/o	WITHOUT
ELEC	ELECTRICAL	NIC	NOT IN CONTRACT	WP	WORK POINT
EMBED	EMBEDMENT	NO. #	NUMBER	WT	WEIGHT
EQ	EQUAL, EARTHQUAKE	NTS "	NOT TO SCALE	WWF	WELDED WIRE FABRIC

SHEET LIST

S0.1	GENERAL STRUCTURA	AL NOTE
S0.2	TYPICAL DETAILS	

FOUNDATION

S1.2 WALL FRAMING S1.3 ROOF FRAMING DETAILS

	SHEAR WALL SCHEDULE									
WALL MARK	SHEATHING	SIDES	PANEL EDGE NAILING	FIELD NAILING	FRAMING AT ADJACENT PANEL EDGES	BASE PLATE ATTACHMENT	ANCHOR BOLT SPACING	FOUNDATION SILL PLATE/FLOOR BASE PLATE	BLOCKING/RIM JOIST ATTACHMENT	
P1-6	7/16" OSB	ONE	8d NAILS AT 6"O.C.	12" O.C.	2x	16d NAILS AT 8" O.C.	5/8" DIAMETER BOLTS AT 48" O.C.	2x	SIMPSON LTP4 CLIPS AT 48" O.C.	
P1-4	7/16" OSB	ONE	8d NAILS AT 4"O.C.	12" O.C.	2x	16d NAILS AT 6" O.C.	5/8" DIAMETER BOLTS AT 32" O.C.	2x	SIMPSON LTP4 CLIPS AT 32" O.C.	

SHEAR WALL SCHEDULE NOTES

1. FRAMING STUDS SHALL BE HEM FIR #2 SPACED AT 16" O.C. MAXIMUM. THICKNESS OF STUDS SHALL BE 2x UNLESS OTHERWISE NOTED IN SCHEDULE.

2. SHEATHING PANELS MAY BE LAYED 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 8d NAILS @ 6" O.C., 12" O.C., FIELD.

4. NAILING APPLIES TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.

5. 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 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 8d NAILS (2 1/2" LONG x 0.131" COMMON OR 2 1/2" LONG x 0.113" GALVANIZED BOX)

7. BLOCKING/RIM JOIST ATTACHMENT NEED NOT BE USED WHERE THE SHEATHING IS DIRECTLY ATTACHED TO THE BASE/SILL PLATE WITH EDGE NAILING.

	HOLDOWN SCHEDULE						
SIMPSON PRODUCT NUMBER	POST	FASTENING	POST (1)	SIMPSON ANCHOR BOLT			
SIMI SON TRODUCT NOMBER	NAILS	SCREWS	1 001	SIMI SON ANCHOR BOLT			
STHD10 / STHD10RJ ⁽³⁾	(18) 16d NAILS	-	2 STUDS	-			
STHD14 / STHD14RJ ⁽³⁾	(24) 16d NAILS	-	2 STUDS	-			
HDU2-SDS2.5	-	(6) SDS $\frac{1}{4} \times 2\frac{1}{2}$	2 STUDS	SB ⁵ / ₈ x 24			
HDU5-SDS2.5		(14) SDS $\frac{1}{4} \times 2\frac{1}{2}$	2 STUDS	SB ⁵ / ₈ x 24			

- HOLDOWN SCHEDULE FOOT NOTES
- 1. POSTS LISTED IN SCHEDULE ARE MINIMUM. CHECK HOLDOWN CALLOUT ON PLAN FOR LARGER POST REQUIREMENTS.
- 2. NUMBER OF NAILS LISTED IS A MAXIMUM. DEEPER FLOOR JOIST MAY REDUCE THE NUMBER OF NAILS POSSIBLE INTO STUDS.
- 3. HDU5 MAY BE SUBSTITUTED FOR STHD TYPE HOLDOWN.

	GENERA	L SYMBOLS	DETAIL SYMBOLS	WOOD SYMBOLS
E	GRID BUBBLE GRID LINE	△WP WORK POINT	ELEVATION VIEW DIRECTION OF CUT LETTER IDENTIFIER SECTION CUT	WOOD BEAM
	- NORTH ARROW	LIMIT OF SPAN DIRECTION OF SPAN	A S1.01) SHEET IDENTIFIER WHERE SECTION IS FOUND	HOLDDOWN POST ————————————————————————————————————
	7 SOIL	SLOPE WHITE SLOPE BREAK IN SLOPE	S1.01 B ELEVATION VIEWS DETAIL NUMBER IDENTIFIER	HOLDDOWN TYPE
 	GRAVEL ELEVATION DATUM		D SECTION / DETAIL / ELEVATION S6.01 SQ.01 SCALE 1/4"=1'-0"	SHEARWALL P1-4
			SHEET WHERE SEC/DET/ELEV CUT	HEATHING THIS SIDE ————————————————————————————————————

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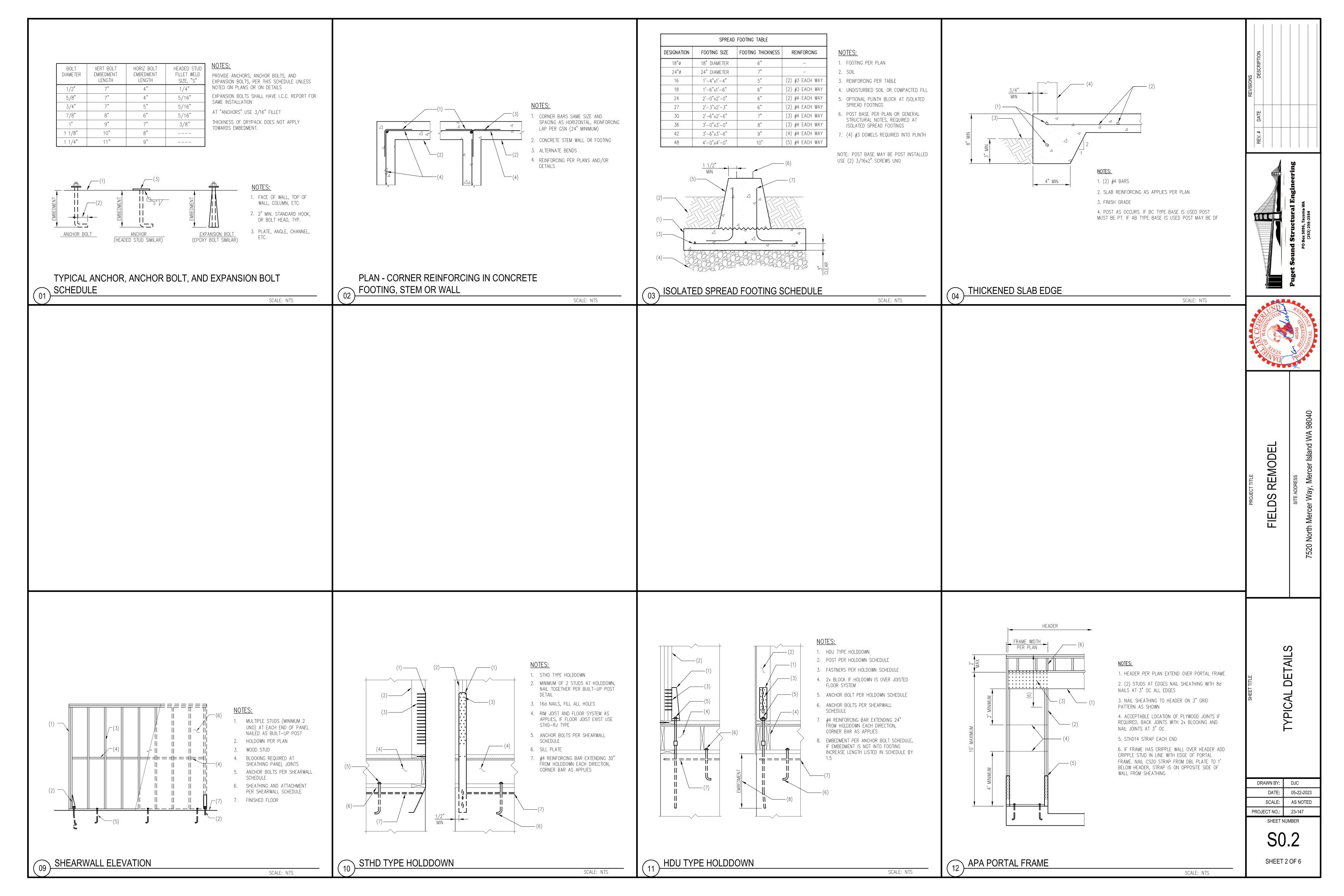
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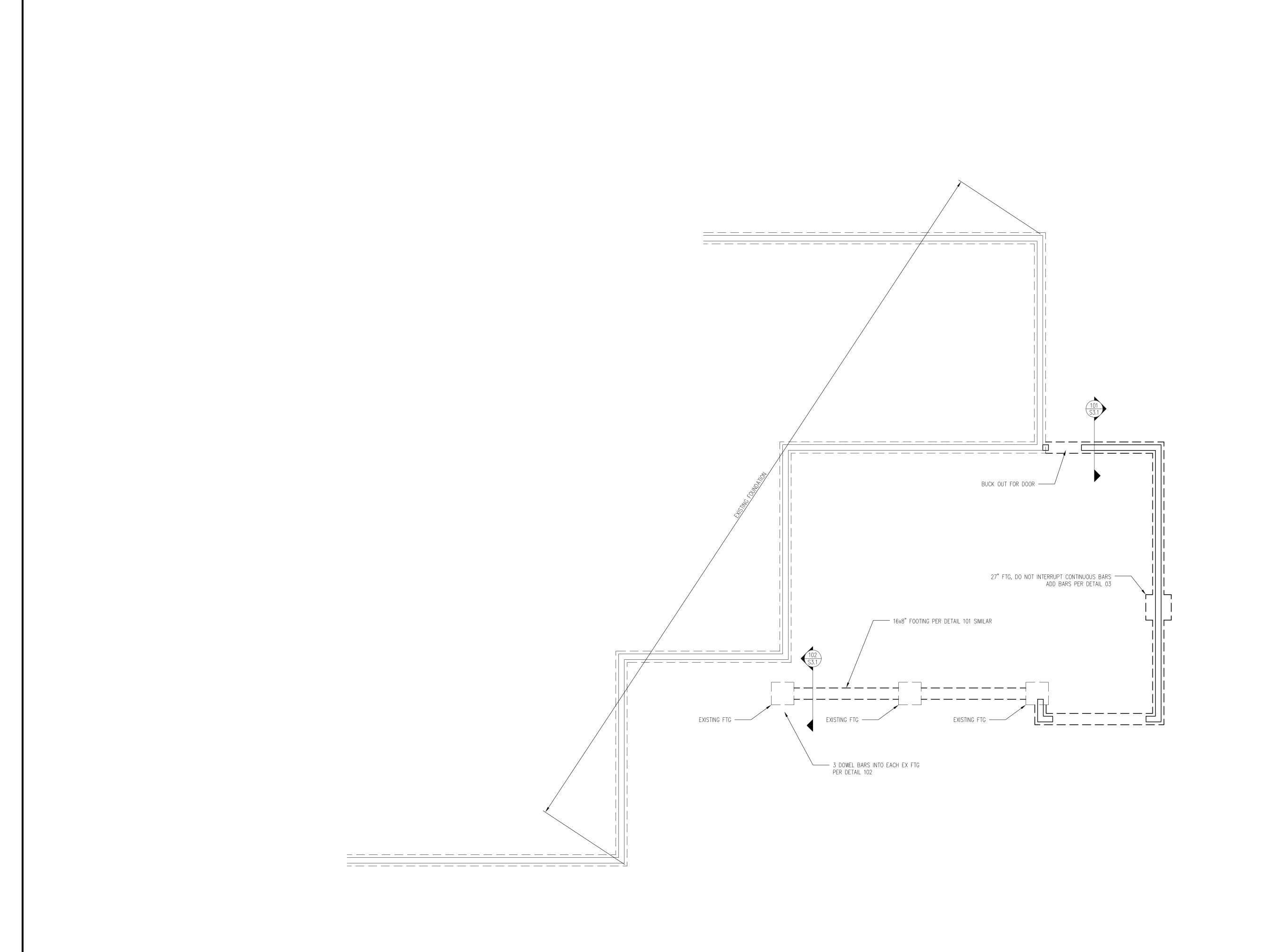
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SHEET 1 OF 6





REVISIONS

REV.# DATE DESCRIPTION





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SITE ADDRESS
7520 North Mercer Way Mercer le

FOUNDATION

DRAWN BY: DJC

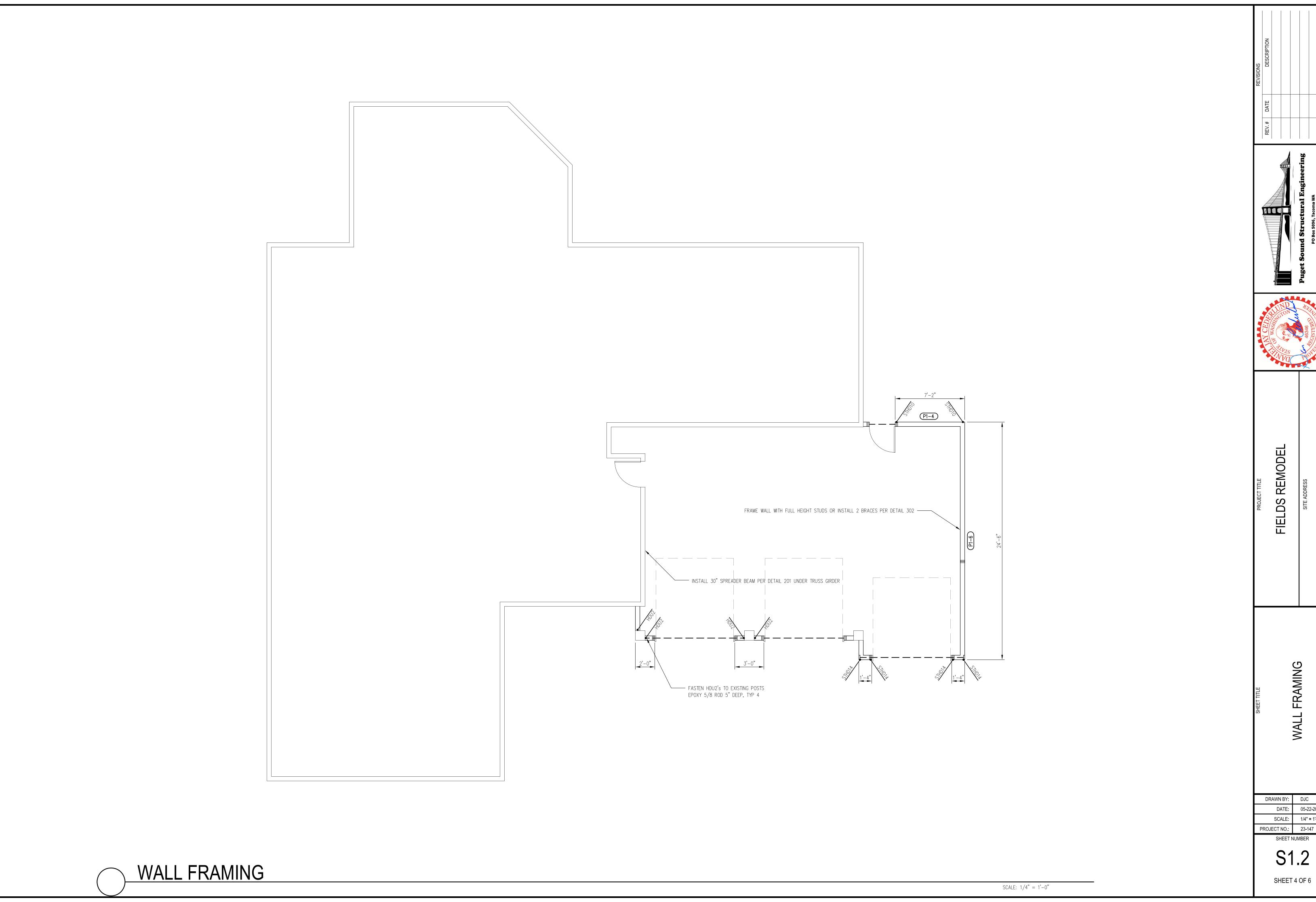
DATE: 05-22-2023

SCALE: 1/4" = 1'-0"

PROJECT NO.: 23-147

S1.1 SHEET 3 OF 6

FOUNDATION







05-22-2023 1/4" = 1'-0" PROJECT NO.: 23-147

