CODE COMPLIANCE:

ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AND AMENDMENTS IN USE AT THE TIME OF APPLICATION FOR PERMIT:

- INTERNATIONAL BUILDING CODE INTERNATIONAL REGIDENTIAL CODE
- WASHINGTON STATE AMENDMENTS
- INTERNATIONAL FIRE CODE INTERNATIONAL MECHANICAL CODE
- UNIFORM PLUMBING CODE
- WASHINGTON STATE ENERGY CODES INTERNATIONAL SWIMMING POOL AND SPA CODES
- LIQUEFIED PETROLEUM GAS CODE • NATIONAL FUEL GAS CODE

GENERAL CONSTRUCTION NOTES:

ALL DIMENSIONS & NOTES ON THE ARCHITECTURAL DRAWINGS & ENGINEERING CALCULATIONS TAKE PRECEDENT OVER ALL GENERAL NOTES ON THIS SHEET.

FACTORY BUILT FIREPLACE & CHIMNEY TO BE UL LABELED AND TESTED IN ACCORDANCE TO UL 127. INSTALL PER MFR'S SPECS, OUTSIDE COMBUSTION AIR REQ'D, (MIN 6 SQ IN,) DUCTED DIRECTLY TO FIREBOX W/ OPERABLE OUTSIDE DAMPER, TIGHTLY FITTING FLUE DAMPER, AND TIGHT FITTING GLASS OR METAL DOORS OR FLUE DRAFT INDUCTION FAN.

LIMIT SHOWER FLOW TO 1.7 GPM OR LESS. LIMIT TOILETS TO 1.6 GPM OR LESS.

ALL SKYLIGHTS TO COMPLY WITH I.R.C. R308.6

ALL SIDELITES, SLIDING GLASS DOORS AND TUB/SHOWER ENCLOSURES TO COMPLY WITH I.R.C. R308.4

VENT DRYER, OVEN/RANGE AND EXHAUST FANS TO OUTSIDE. DRYER EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMB. HORIZ. AND VERT. LENGTH OF 14'-O", INCL. TWO 900. ELBOWS. DEDUCT 2'-O" FOR EA, 90d, ELBOW IN EXCESS OF TWO, ALL EXHAUST DUCTS TO INSULATED TO A MIN, OF R-4,

TUB/SHOWER SURROUND WALLS TO HAVE FIBER-CEMENT BACKER BOARD AND FINISHED WITH A SMOOTH NON-ABSORBENT SURFACE TO A MINIMUM HEIGHT OF 72" ABOVE THE FLOOR.

PROVIDE SMOKE DETECTOR IN COMPLIANCE WITH I.R.C. R314 ALL SMOKE DETECTORS W/BATTERY BACKUP, SMOKE DETECTORS WILL SOUND AN AUDIBLE ALARM IN ALL SLEEPING ROOMS.

PROVIDE CARBON MONOXIDE DETECTOR IN COMPLIANCE WITH I.R.C. R315 OUTSIDE OF EACH SEPARATE SLEEPING AREA AND IN THE IMMEDIATE VICINITY OF ALL BEDROOMS, CARBON MONOXIDE DETECTOR SHALL MEET UL LISTING 2034 AND BE INSTALLED PER MFG LISTING.

EGRESS WINDOWS AT ALL BEDROOMS SHALL CONFORM TO THE FOLLOWING CRITERIA PER I.R.C. R310: MINIMUM NET CLEAR HEIGHT SHALL BE 24". MINIMUM NET CLEAR WIDTH SHALL BE 20". MAXIMUM FINISHED SILL HEIGHT ABOVE FLOOR SHALL BE 44", WHERE THE SILL OF A WINDOW IS GREATER THAN 72" ABOVE FINISH GRADE OR SURFACE BELOW THE MINIMUM SILL HEIGHT ABOVE FINISH FLOOR SHALL BE 24" (R312.2.1).

FIRE STOPS SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS FROM VERTICAL TO HORIZONTAL SPACES, INCLUDING THE STAIR, TUB, SHWR, FIREPLACE, ETC. PER I.R.C. R302.11.

ASSUMED DESIGN LOADS

ALL ASSUMED DESIGN LOADS ARE PER THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (UNLESS NOTED BY ENGINEER)

UNIFORM SNOW LOAD	40 P6F
SEISMIC ZONE CATEGORY	D
WEATHERING	MODERATE
FROST LINE DEPTH	18"
TERMITE INFESTATION RISK	SLIGHT TO MODERATE
RISK OF DECAY	SLIGHT TO MODERATE
WINTER DESIGN TEMPERATURE	22° F
FLOOD HAZARD INDEX	MAY 12, 1974 - AMENDED NOV 9 1999
AIR FREEZING INDEX	ОГІ
MEAN ANNUAL TEMPERATURE	51° F

TCHC IIC - GRANBOIS CUSTOM

PLUMBING / MECHANICAL / ELECTRICAL INSTALLATION

ALL PLUMBING, MECHANICAL AND ELECTRICAL PERMITS SHALL BE OBTAINED SEPARATELY FROM THE BUILDING PERMIT AS NECESSARY AND SHALL BE APPLIED FOR BY THE APPROPRIATELY LICENSED SUBCONTRACTOR DIRECTLY

TUB WASTE OPENINGS IN FRAMED CONSTRUCTION TO CRAWL SPACES AT OR BELOW THE FIRST FLOOR SHALL BE PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS OR METAL SCREEN SECURELY FASTENED TO THE ADJOINING STRUCTURE WITH NO OPENING GREATER THAN 1/2 INCH (12.7mm) IN THE LEAST DIMENSION PER UPC 313.12.4

THE MAXIMUM HOT WATER TEMPERATURE DISCHARGING FROM THE BATH TUB AND WHIRLPOOL BATH TUB FILLER SHALL BE LIMITED TO 120° FAHRENHEIT. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION PER UPC 414.5

GAS-FIRED FURNACES INSTALLED WITHIN THE INTERIOR THERMAL ENVELOPE SHALL BE DIRECT-VENTED OR 94% EFFICIENT, UNLESS INSTALLED IN A ROOM OR SPACE THAT OPENS ONLY INTO A BEDROOM OR BATHROOM, AND SUCH ROOM OR SPACE IS USED FOR NO OTHER PURPOSE AND IS PROVIDED WITH A SOLID WEATHER-STRIPPED DOOR EQUIPPED WITH AN APPROVED SELF-CLOSING DEVICE PER IRC G2406.2. ALL COMBUSTION AIR SHALL BE TAKEN DIRECTLY FROM THE OUTDOORS IN ACCORDANCE WITH SECTION G2407.6, AND SAID ROOM OR SPACE SHALL BE INGULATED PER WSEC.

ENERGY CODE REQUIREMENTS

SHALL COMPLY WITH THE CURRENT EDITION OF THE WSEC PRESCRIPTIVE REQUIREMENTS LARGE DWELLING UNIT: GREATER THAN 5,000 S.F. 7 CREDITS

TABLE R406 OPTIONS	
BYSTEM TYPE = OPTION 2 (HEAT PUMP)	1.0 CREDITS
EFFICIENT BUILDING ENVELOPE = OPTION 1.3	0.5 CREDITS
AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION = OPTION 2.3	1.5 CREDITS
HIGH EFFICIENCY HVAC EQUIPMENT = OPTION 3.5	1.5 CREDITS
HIGH EFFICIENCY HVAC DISTRIBUTION = OPTION 4.2	1.0 CREDITS
EFFICIENT WATER HEATING = OPTION 5.4	1.5 CREDITS
TOTAL PROVIDED	1 CREDITS

SEE SUBMITTED ENERGY FORMS FOR MORE DETAILS

A RESIDENTIAL ENERGY CERTIFICATE COMPLYING WITH (WSEC 401.3) IS REQUIRED TO BE COMPLETED BY THE DESIGN PROFESSIONAL OR BUILDER AND PERMANENTLY POSTED WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.

AIR LEAKAGE TESTING (WSEC 402.4.1.2) SHALL BE PERFORMED IN THE PRESENCE OF THE BUILDING OFFICIAL OR THEIR DULY APPOINTED REPRESENTATIVE. THE RESULTS SHALL BE RECORDED ON THE ENERGY COMPLIANCE CERTIFICATE.

AIR LEAKAGE SHALL BE REDUCED TO A MAXIMUM OF 5 AIR CHANGES PER HOUR (PER R402.1.2 OF 218 WGEC), AND THE WHOLE HOUSE VENTILATION REQUIREMENTS SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70

ALL DUCTS AND AIR HANDLERS AND FILTER BOXES SHALL IN ACCORDANCE WITH (WSEC 403.2.1 THROUGH 403.2.3). JOINTS AND SEAMS SHALL COMPLY WITH THE CURRENT I.R.C. AND I.M.C. A DUCT LEAKAGE TEST SHALL BE PERFORMED BY A QUALIFIED TECHNICIAN AND A DUCT LEAKAGE AFFIDAVIT SHALL BE POSTED NEXT TO THE ELECTRICAL PANEL.

AT LEAST 90% OF ALL INTERIOR LUMINARIES AND ALL EXTERIOR LUMINARIES SHALL BE HIGH EFFICACY (WSEC 404,1), HIGH EFFICACY LUMINARIES ARE DEFINED AS, A LIGHTING FIXTURE THAT DOES NOT CONTAIN A MEDIUM SCREW BASE SOCKET (E24/E26) AND WHOSE LAMPS OR OTHER LIGHT SOURCE HAVE A MINIMUM EFFICIENCY OF, 60 LUMENS PER WATT FOR LAMPS OVER 40 WATTS, 50 LUMENS PER WATT FOR LAMPS OVER 15 WATTS AND UP TO 40 WATTS, 40 LUMENS PER WATT FOR LAMPS OF 15 WATTS OR LESS.

LUMINAIRES PROVIDING OUTDOOR LIGHTING (WSEC 505.2) AND PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY LUMINAIRES UNLESS CONTROLLED BY A MOTION SENSOR WITH INTREGAL PHOTOCONTROL PHOTOSENSOR,

HOT WATER TANK WILL HAVE A MINIMUM E.F. OF 0.91 IN ACCORDANCE TO WEEC TABLE 406.2 ENERGY CREDIT OPTION 56 AND SHALL BE LABELED PER ASHRAE STD. NO. 90A-80,

EACH DWELLING UNIT IS REQUIRED TO HAVE AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE.

VENTILATION / AIR QUALITY REQUIREMENTS: SOURCE SPECIFIC VENTILATION REQUIREMENTS

- BATHROOMS AND POWDER ROOM FANS TO BE 50 CFM. KITCHEN EXHAUST FANS TO BE 100 CFM. -EXHAUST FANS SHALL BE FLOW RATED AT
- EXHAUST DUCTS SHALL: -BE INSULATED TO R-4 IN UNCONDITIONED -BE EQUIPPED WITH A BACKDRAFT DAMPS -TERMINATE OUTSIDE THE BUILDING -COMPLY WITH M1505,4,4(2) PER 2018 IRC

FAN CFM	MAX FLEX DIA.	MAX FT.	MAX SMOOTH DIA.	MAX FT.
50	4"	25'	4"	7 0'
50	5"	90'	5"	100'
50	6"	+100'	6"	+100'
80	4"	not allowed	4"	20'
80	5"	15'	5"	100'
80	6"	90'	6"	+100'
100	5"	not allowed	5"	50'
100	6"	15'	6"	+100'
125	6"	15'	6"	+100'
125	٦"	70'	٦"	+100'

WHOLE HOUSE VENTILATION REQUIREMENTS:

- EXHAUST FANS MUST BE FLOW RATED AT ,25 W.G. AND MAX, 1.0 SONE RATING.
- WSEC TABLE 406.2 ENERGY CREDIT OPTION 26.
- PERIOD TO EQUAL THE CONTINUOUS VENTILATION RATE PER TABLE MISOT.3.3 (1).
- ALL HABITABLE ROOMS (1/2" UNDERCUT U.N.O.).
- PROVIDE SUFFICIENT MAKE-UP AIR FOR EXHAUST AS REQUIRED
- AIR FROM PROHIBITED LOCATIONS LISTED UNDER IRC MIGO2.2.

WHOLE HOUSE VENTILATION CALCULATIONS:

HEATED SQUARE FOOTAGE = 7,168

NUMBER OF BEDROOMS = 6

MIN, VENTILATION RATE PER TABLE MI507.3.3 (1) = 135

CALCULATION PER MI507.3.3 (2) = 135 × 1.3 = 175.5

PROVIDE A WHOLE-HOUSE FAN WITH THE MINIMUM CAPACITY OF 175.5 CFM THAT OPERATES FOR 180 MINUTES EVERY 4 HOUR CYCLE.

MOISTURE CONTROL

WALLS SEPARATING CONDITIONED SPACES FROM UNCONDITIONED SPACES SHALL HAVE A VAPOR RETARDER INSTALLED ON THE WARM SIDE OF THE WALL USING FACE INSULATION OR FRICTION FIT WITH GMIL POLYETHYLENE OR CLASS III VAPOR RETARDER PVA. (I.R.C. RT02.7.1)

SEAL, CAULK, GASKET, FLASH OR WEATHER STRIP: AROUND WINDOW AND DOOR FRAMES (PER MFG INSTALLATION SPECIFICATIONS), AT EXTERIOR JOINTS, OPNG'S BTWN WALL AND ROOF AND WALL PANELS, OPNG'S AT UTILITY PENETRATIONS THROUGH WALLS, FLOORS, AND ROOFS, ALL OTHER OPNG'S IN BLD'G ENVELOPE.

CATHEDRAL CEILING (NO ATTIC) - VAPOR RETARDER SHALL HAVE A DRY CUP PERM RATE OF 1.0 OR LESS

ALL EXTERIOR DOORS OR ACCESS HATCHES TO ENCLOSED UNHEATED AREAS MUST BE WEATHER STRIPPED.

T	.25	W.G.	STATIC	PRESSURE	
			• • • • • •		

SPACE	
ER	

• AN INTERMITTENT WHOLE HOUSE EXHAUST FAN SHALL BE LOCATED IN THE CEILING AND SHALL BE SIZED TO PROVIDE THE MINIMUM VENTILATION RATE SPECIFIED IN TABLE MI507.3.3 (1)

• AIR LEAKAGE SHALL BE REDUCED TO A MAXIMUM OF 2 AIR CHANGES PER HOUR, AND THE WHOLE HOUSE VENTILATION REQUIREMENTS SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.10. IN ACCORDANCE WITH

• A READILY ACCESSIBLE 24 HOUR CLOCK TIMER SHALL BE INSTALLED AND WIRED TO REGULATE THE WHOLE HOUSE EXHAUST FAN, THE TIMER SHALL BE SET TO CYCLE THE FAN AT LEAST 180 MIN, EVERY 4 HOURS AND THE CYCLE "RUN TIME" SHALL PROVIDE ENOUGH VENTILATION DURING THAT

• INTERIOR DOORS SHALL BE INSTALLED SO AS NOT TO IMPEDE THE MOVEMENT OF FRESH AIR TO

• AN AIR TRANSFER GRILLE SHALL BE PROVIDED ABOVE OR WITHIN UTILITY ROOM DOOR TO

 OUTDOOR AIR INLETS SHALL BE LOCATED IN EACH HABITABLE ROOM AND PROVIDE AT LEAST 4 SQUARE INCHES OF FREE AREA OPENING, INLETS SHALL BE SCREENED AND SHALL NOT DRAW

SHEET INDEX

COVER SITE	GENERAL NOTES/ SHEET I PROJECT TEAM SITE PLAN/ HEIGHT & ARE
1 of 2 2 of 2	UTILITY PLAN TESC PLAN
A0.0 A1.0 A2.0 A3.0 A3.0 A4.0 A5.0 A5.1 A5.1 A6.0 A7.0 A7.1	ARCHITECTURAL FOUNDAT LOWER FLOOR PLAN MAIN FLOOR PLAN UPPER FLOOR PLAN ARCHITECTURAL ROOF PL EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS BUILDING SECTIONS STANDARD DETAILS WATER INTRUSION DETAILS
S-O S-1 S-2 S-3 S-4 S-5 S-6 SD-1 SD-2 SD-3	COVER SHEET STRUCTURAL GENERAL NO FOUNDATION PLAN LOWER FLOOR FRAMING F FIRST FLOOR FRAMING PL FIRST FLOOR WALL FRAM ROOF FRAMING PLAN STRUCTURAL DETAILS STRUCTURAL DETAILS

NOTE: FIRE SPRINKLERS REQ'D.

PROJECT TEAM

DESIGNER:

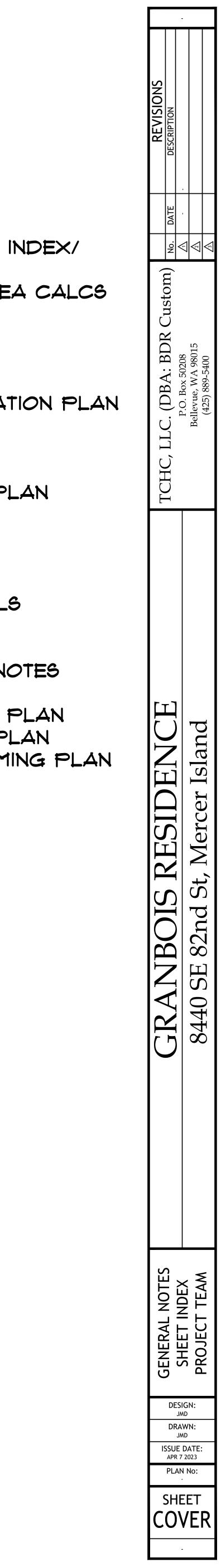
TCHC, LLC, DBA; BDR CUSTOM LLC P.O. BOX 50208 BELLEVUE, WA 98015 CONTACT: JIM DWYER TEL: 425-495-7101

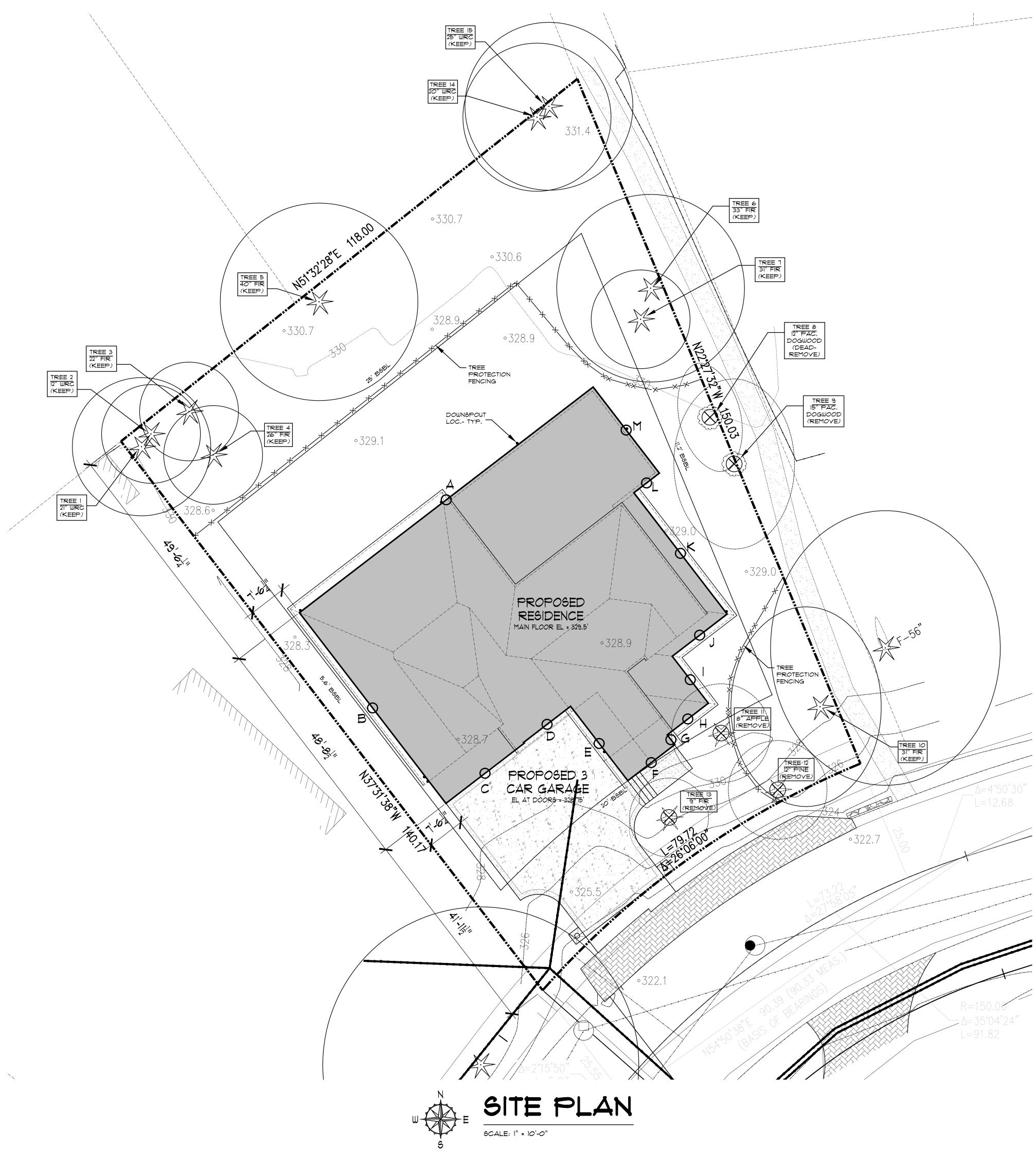
CIVIL ENGINEER:

CORE DESIGN INC. 12100 NE 195th ST, SUITE 300 BOTHELL, WA 98011 CONTACT: SHERI MURIATA, P.E. TEL: 425-885-7877

STRUCTURAL ENGINEER:

LONGITUDE 120 STRUCTURAL ENGINEERS 13150 91st PL, NE, KIRKLAND, WA 98034 CONTACT: MANG THURFJELL TEL: 425-636-3313





TAX PARCEL*: *362560-0120

ADDRESS/ LEGAL:

8440 SE 82nd St, Mercer Island, WA. 98040 Legal: ISLAND POINT ADD #2 AND UND INT IN COMMUNITY TR

LOT COVERAGE:

LOT AREA (PER SURVEY): ALLOWABLE LOT COVERAGE = 40%	13,806 S.F. 5,522 S.F.
MAIN STRUCTURE ROOF AREA: COVERED PATIOS & DECKS: VEHICULAR USE (DRIVEWAY, PAVED	2,784 S.F. 1,275 S.F.
ACCESS, UNCOVERED WALKS)	1,237 S.F.
TOTAL PROJECT IMPERVIOUS AREA	5,296 S.F.
PROPOSED LOT COVERAGE AREA	38.3 %

GROSS FLOOR AREA:

GARAGE: PROPOSED GFAR = 5,512 S.F.	2,3 16 5.F. 148 5.F. 39.9%
MAIN FLOOR: UPPER FLOOR (NET):	2,388 S.F. 2,376 S.F.
MAX ALLOWABLE GFAR = 40%	5,522 S.F.

HARDSCAPE:

MAX ALLOWABLE = 9%	1,242.5 S.F.
NEW HARDSCAPE (WALKWAYS	
AND UNCOVERED PATIOS) = 1,28%	177 S.F.

CITY OF MERCER ISLAND HEIGHT RESTRICTION

AVERAGE BUILDING ELEVATION

MIDPOINT ELEY	WALL SEGMENT LENGTH	MIDPOINT × LENGTH (Axa)
A 329.0	a 75'	24,675
B 328.5	b 48.1'	15,997,95
C 328.5	c 20'	6,570
D 328.5	d 12'	3,942
E 328.5	e 19'	6,241.5
F 329.0	f 12'	3,948
G 329.0	g 2.5'	822.5
H 329.0	g 2.5' h 10,5'	3,454.5
329.0	í 12'	3,948
J 329.0	j 14'	4,606
K 329.0	k 31'	10,199
L 329.0	I 6.7'	2,204.3
M 329.0	m 22.3'	7,336.7
	285.7	93,945.45

TOTAL MIDPOINT × LENGTH = 93,945.45 TOTAL WALL LENGTH = 285.7 93,945.45 / 285.7 = 328.82'

AVERAGE BUILDING ELEVATION = 328,82 MAX BUILDING HEIGHT = 328.82' + 30' = 358.82' HOME BUILDING HEIGHT = 358.02

(SEE ELEVATION SHEETS A5.0 & A5.1)

LOT SLOPE CALCULATION;

HIGHEST ELEVATION POINT; LOWEST ELEVATION POINT; ELEVATION DIFFERENCE; HORIZ, DIST, BETWEEN PTS;	331.4' 324.0' 7.4' 165.75'
LOT SLOPE:	4.46%

(ELEY, DIFFERENCE DIVIDED BY HORIZ, DIST. MULTIPLIED BY 100)

TREE RETENTION CALCULATION:

SEE ARBORIST REPORT



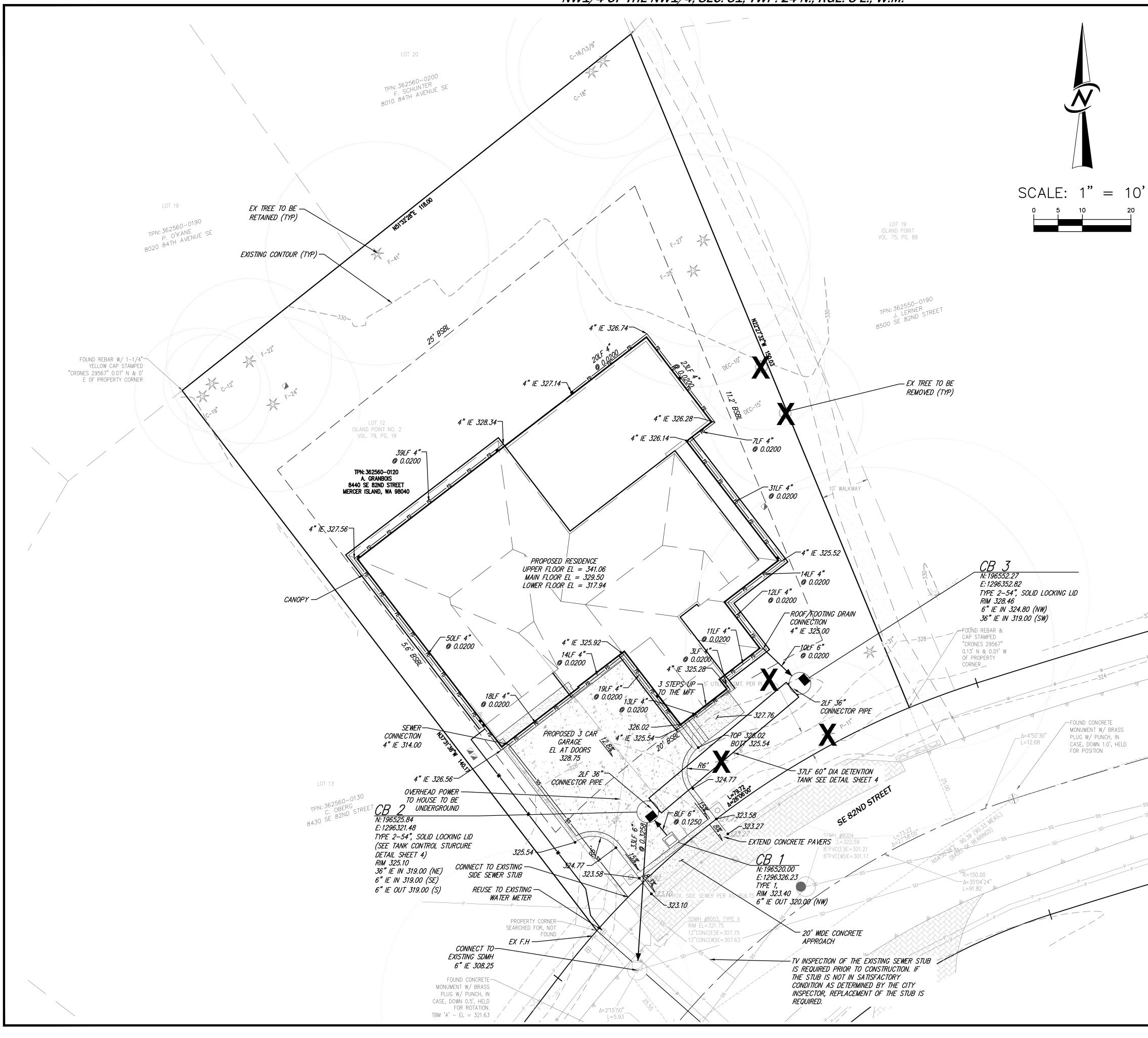
REFER TO SITE SURVEY AND ARBORIST REPORT FOR TREE TYPE AND SIZE

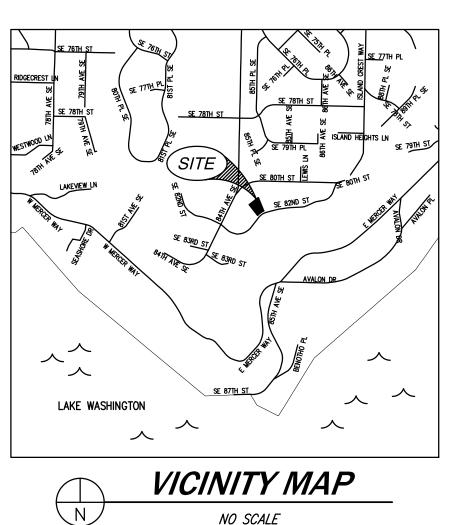
DRAINAGE SWALE NOTE

PROVIDE DRAINAGE SWALE © HOUSE PERIMETER FOR SITE DRAINAGE AWAY FROM RESIDENCE AND AWAY FROM ADJACENT PROPERTIES.

FOUNDATION STAKING NOTE PRIOR TO STAKING FOUNDATION, A LICENSED SURVEYOR MUST VERIFY THAT THE DIMENSIONS SHOWN ON ARCHITECT'S/ DESIGNER'S FOUNDATION PLAN PROPERLY CLOSE, ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO DESIGNER PRIOR TO PRECEDING WITH THE WORK.

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REVISIONS	DESCRIPTION				
	No. DATE	- -		∇	\mathbb{Z}
	\Box I LI IC, LEC. (DDA. DDN CUSIUII)	P.O. Rov 50208	I .O. DOX 30200	Bellevue, WA 98015	(425) 889-5400
BDR Granbois Custom 8440 SE 82nd St. Mercer Island, 98040					
SITE PLAN/ AVG BLDG ELEV/ LOT COVERAGE					
DESIGN: JMD DRAWN: JMD ISSUE DATE: 7 APR 2023					
15	SSU	JM E I	D/		
	SSU	JM PR AN		023 No:	





NO SCALE

OWNER

ANDREW AND TRACI GRANDBOIS

LEGAL DESCRIPTION

LOT 12, ISLAND POINT NO. 2, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 79 OF PLATS, PAGE(S) 18 AND 19, RECORDS KING COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

SITE STATISTICS

SETBACKS: ZONE: FRONT: REAR: SIDE: SITE ADDRESS:

R-9.6 20' 25' 5.5'/11.2' 8440 SE 82ND ST, MERCER ISLAND, WA 98040 362560-0120

TAX PARCEL NUMBER:

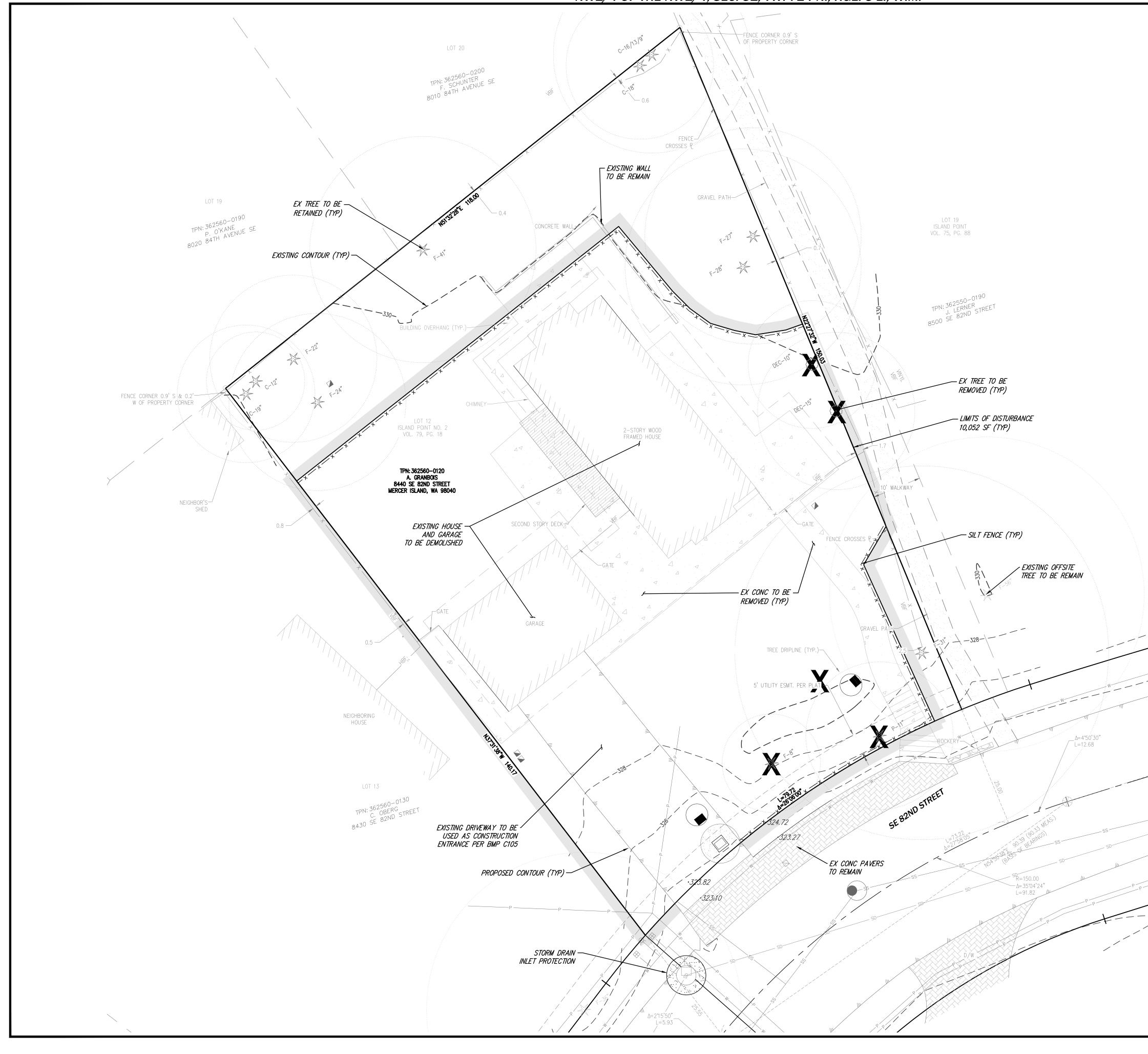
LOT COVERAGE

LOT AREA (PER SURVEY)	13,806 SF
ALLOWABLE LOT COVERAGE = 40%	5,522 SF
MAIN STRUCTURE ROOF AREA	4,122 SF
UNCOVERED PATIOS WALKS & DRIVEWAY	1,138 SF
TOTAL PROJECT IMPERVIOUS AREA	5,260 SF
PROPOSED LOT COVERAGE AREA	38.0%

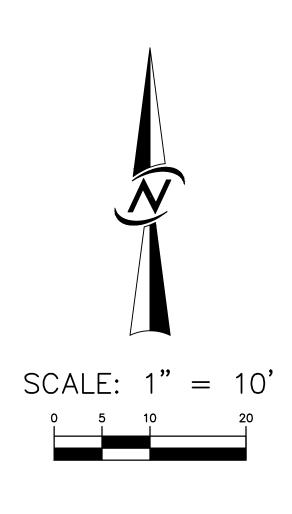
		LANDSCAPE ARCHITECTURE	CUSTOM) CUSTOM SIRVEYING		12100 NE 195th St, Suite 300 Bothell, Washington 98011 425.885.7877
		GRANBUIS CUSIUM	TCHC. LLC. (BDA: BDR		BELLEVUE, WA 98015
, DATE APRIL 2023 (1ST SUB)	DESIGNED SHERI H. MURATA, P.E.	DRAWN JOCEL W R. CASENAS	APPROVED SHERI H. MURATA, P.E.	SHERI H. MURATA, P.E.	PROJECT MANAGER
PR	1	СТ	 NU	З мві	ER

22293

UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG! 1-800-424-5555



4/5/2023 2:10 PM J: \2022\22293\ENGNEERING\FINAL\SHEETS\22293 TESC.



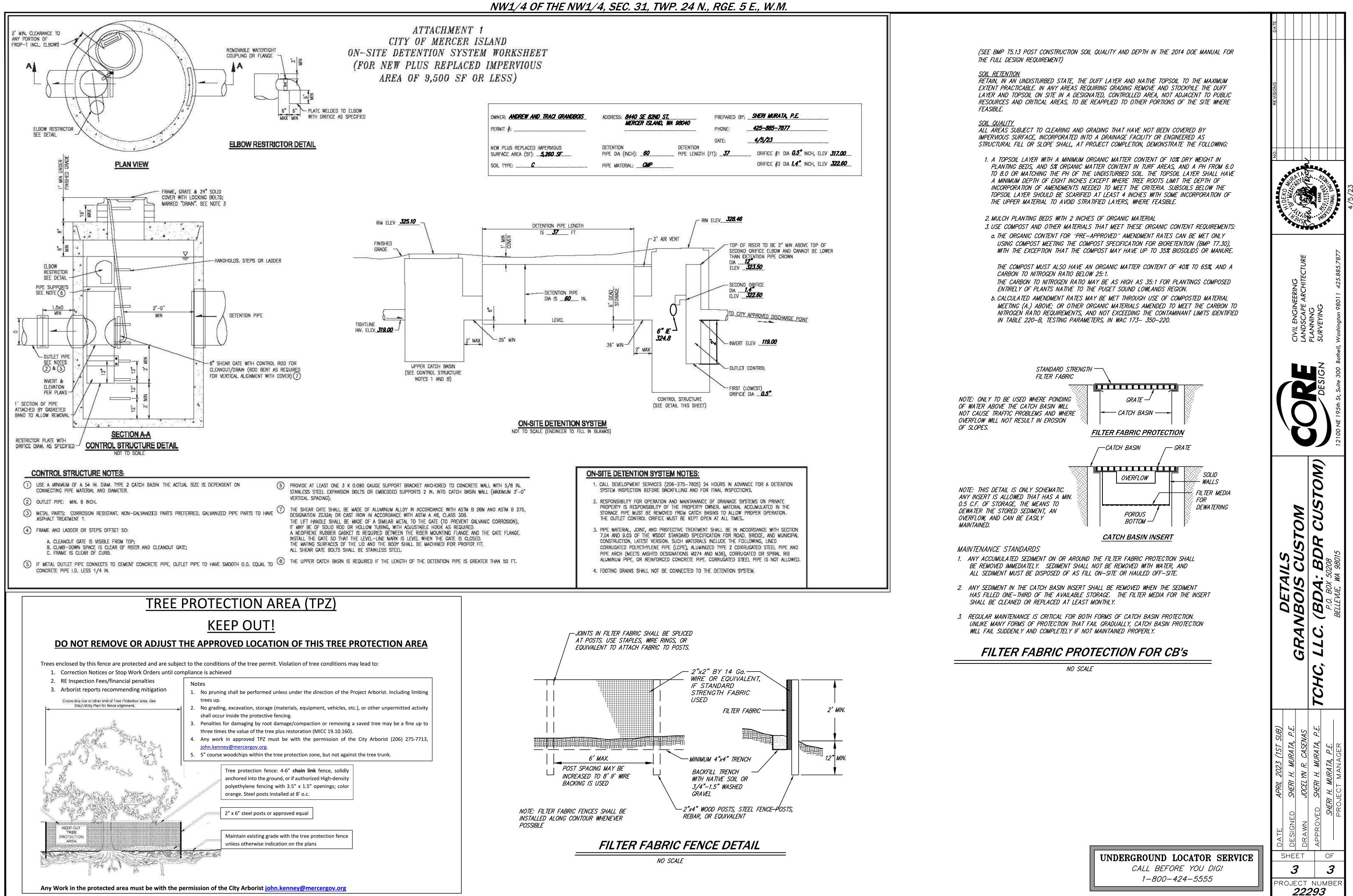
NO. REVISIONS DATE	4/5/23
VEERING E ARCHITECTURE	12100 NE 195th St, Suite 300 Bothell, Washington 98011 425.885.7877
TESC PLAN GRANBOIS CUSTOM	TCHC, LLC. (BDA: BDR CUSTOM) P.O. BOX 50208 BELLEVUE, WA 98015
DATE APRI 2023 (1ST SUB) DESIGNED SHERI H. MURATA, P.E. DRAWN JOCELYN R. CASENAS	APPROVED <i>SHERI H. MURATA, P.E.</i> 9 Project Manager

PROJECT NUMBER

LEGEND

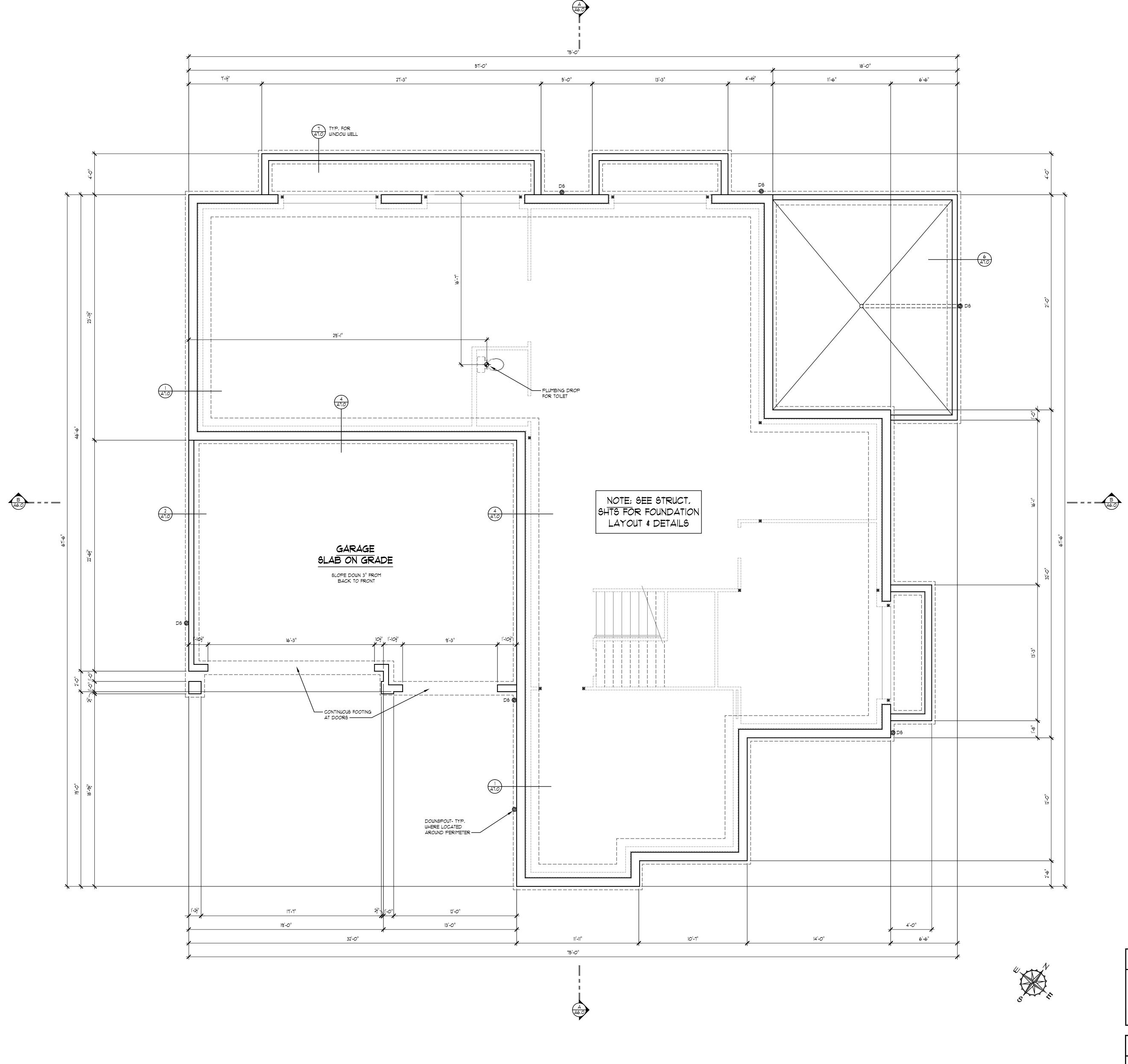
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	CATCH BASIN TYPE I
0	CATCH BASIN TYPE II
Q	FIRE HYDRANT
	WATER METER
	IRRIGATION METER
$\begin{tabular}{ c c c c } \hline & \\ \hline \\ \hline$	POWER TRANSFORMER
\boxtimes	TELEPHONE PEDESTAL
	TV PEDESTAL
MAIL	MAILBOX KIOSK
××	EVERGREEN TREE
\bigcirc	DECIDUOUS TREE
F-	FIR
C	CEDAR
P-	PINE
DEC-	DECIDUOUS
Æ	PROPERTY LINE
D/W	DRIVEWAY
VBF	VERTICAL BOARD FENCE
HBF	HORIZONTAL BOARD FENCE
SS	SEWER LINE
SD	STORM DRAINAGE LINE
W	WATER LINE
P	UNDERGROUND POWER LINE
X	FENCE LINE
	EDGE OF ASPHALT
	GRAVEL
	BRICK

UNDERGROUND LOCATOR SERVICE *CALL BEFORE YOU DIG! 1–800–424–5555*





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ARCHITECTURAL FOUNDATION PLAN

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

	Buc
WATER	MIN, 4" DIA, HOLE 30" (1 BELOW T.O.W.
SEWER	(NON-SEPTIC SYSTEMS) T.O.W., LOC. AWAY FROI MIN. OF 10' (HORIZ.) FRO
DRAIN TILE	LOCATION OUTLINE USE A 4"
	SYMBOL
0	DOWNSPOUT LOCATION

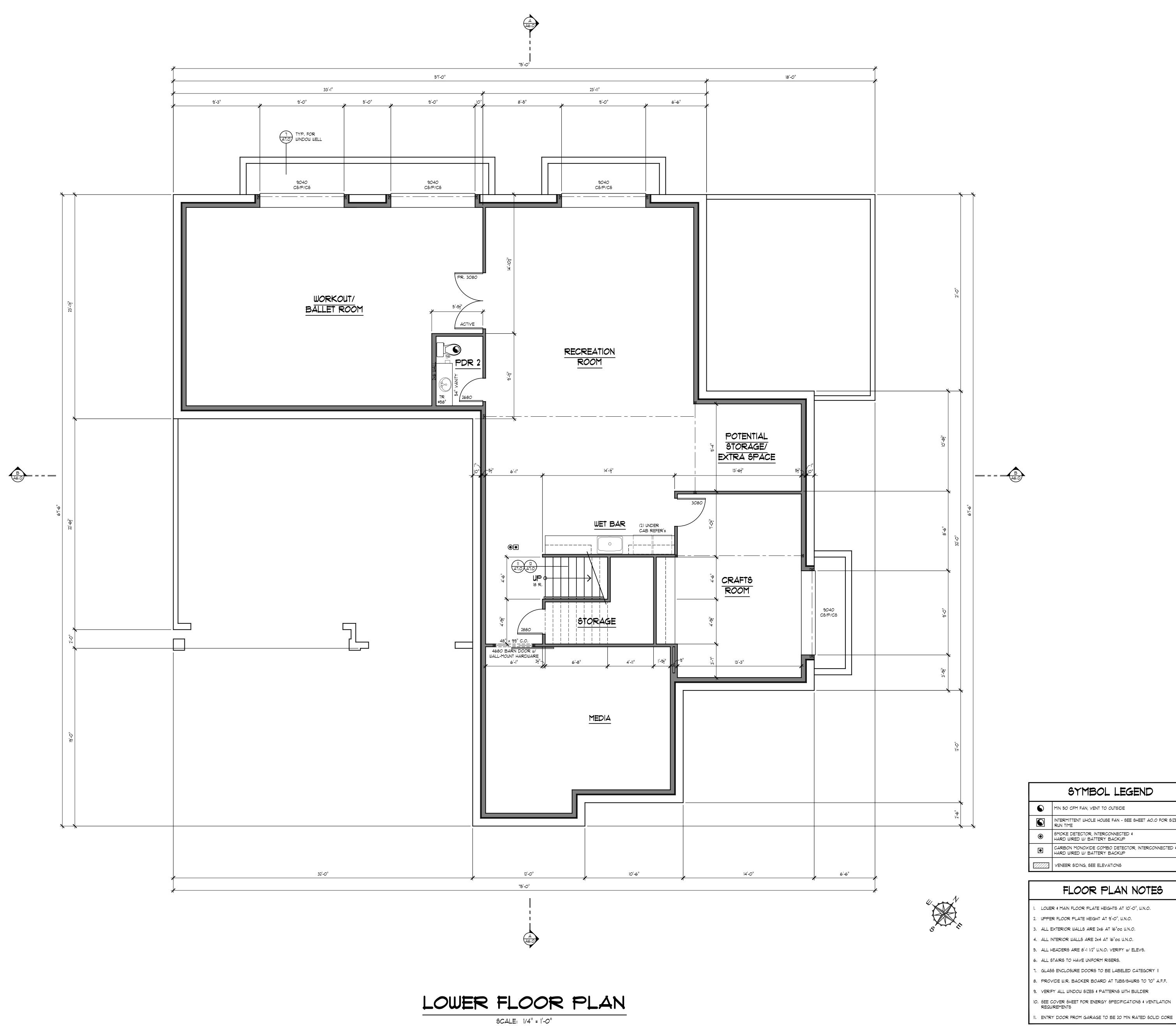
A A		The Andrea and a second and as second and a		REVISIONS
	JA DRA JA SUE APR 7			DESCRIPTION
ет .0	ND WN:	8440 SE 82nd St, Mercer Island	F.O. DUX 30200 Bellevue, WA 98015 (425) 889-5400	

BUCKOUTS

D" (FOR 24" REQ'D EARTH COVER) MG): 6"Ø SLEEVE 30" BELOW FROM DECKS AND PATIOS AND A FROM WATER SUPPLY. NE AT LOW POINT OF EXCAVATION 4 4"¢ SLEEVE - THRU FOOTING

LS & LEGEND

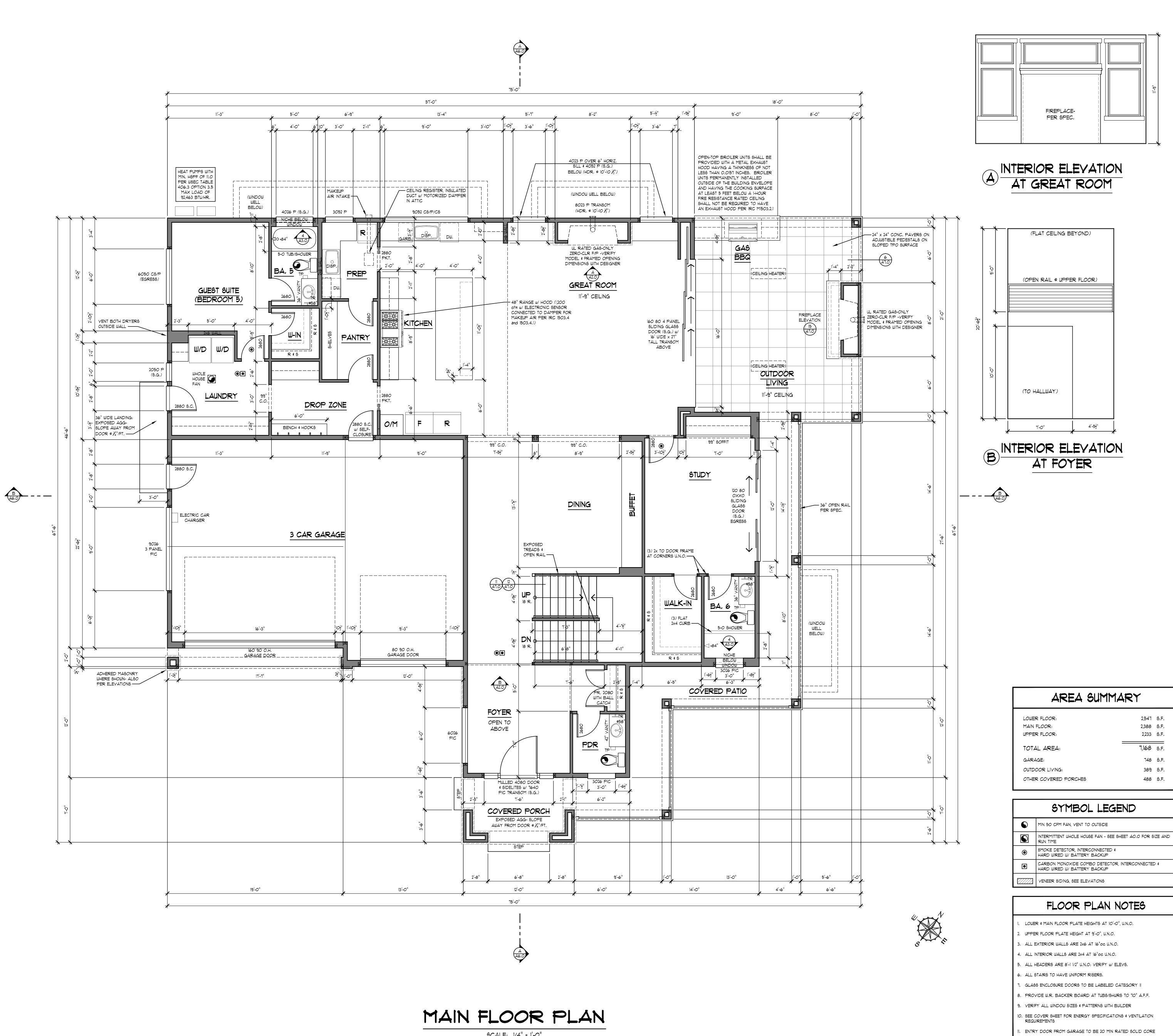
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REVISIONS	DESCRIPTION			
	No. DATE	- -	$\overline{\mathbb{A}}$	$\overline{\mathbb{A}}$
		P.O. Box 50208	Bellevue, WA 98015	(425) 889-5400
A NIPOIC DECIDENTCE			8440 GF 82nd St Mercer Icland	UZIN UN INTUUNI I
	LOWER FLOOR		PLAN	
	DR/	MD MD D/ 7 20	N: ATE: 023	
	5HI	-)

DL LEGEND
TO OUTSIDE
OUSE FAN - SEE SHEET AO.O FOR SIZE AND
ERCONNECTED # RY BACKUP
OMBO DETECTOR, INTERCONNECTED 4 RY BACKUP
EVATIONS
PLAN NOTES
HEIGHTS AT 10'-0", U.N.O.
HEIGHTS AT 10'-0", U.N.O. AT 9'-0", U.N.O.
HEIGHTS AT 10'-0", U.N.O. AT 3'-0", U.N.O. 6 AT 16"oc U.N.O.
HEIGHTS AT 10'-0", U.N.O. AT 9'-0", U.N.O. 6 AT 16"oc U.N.O. 4 AT 16"oc U.N.O.
НЕІĞHTS AT 10'-0", U.N.O. AT 9'-0", U.N.O. 6 AT 16"oc U.N.O. - AT 16"oc U.N.O. N.O: VERIFY W/ ELEVS.
НЕІGHTS AT 10'-0", U.N.O. AT 9'-0", U.N.O. 6 AT 16"oc U.N.O. 4 AT 16"oc U.N.O. N.O: VERIFY W/ ELEVS. M RISERS.

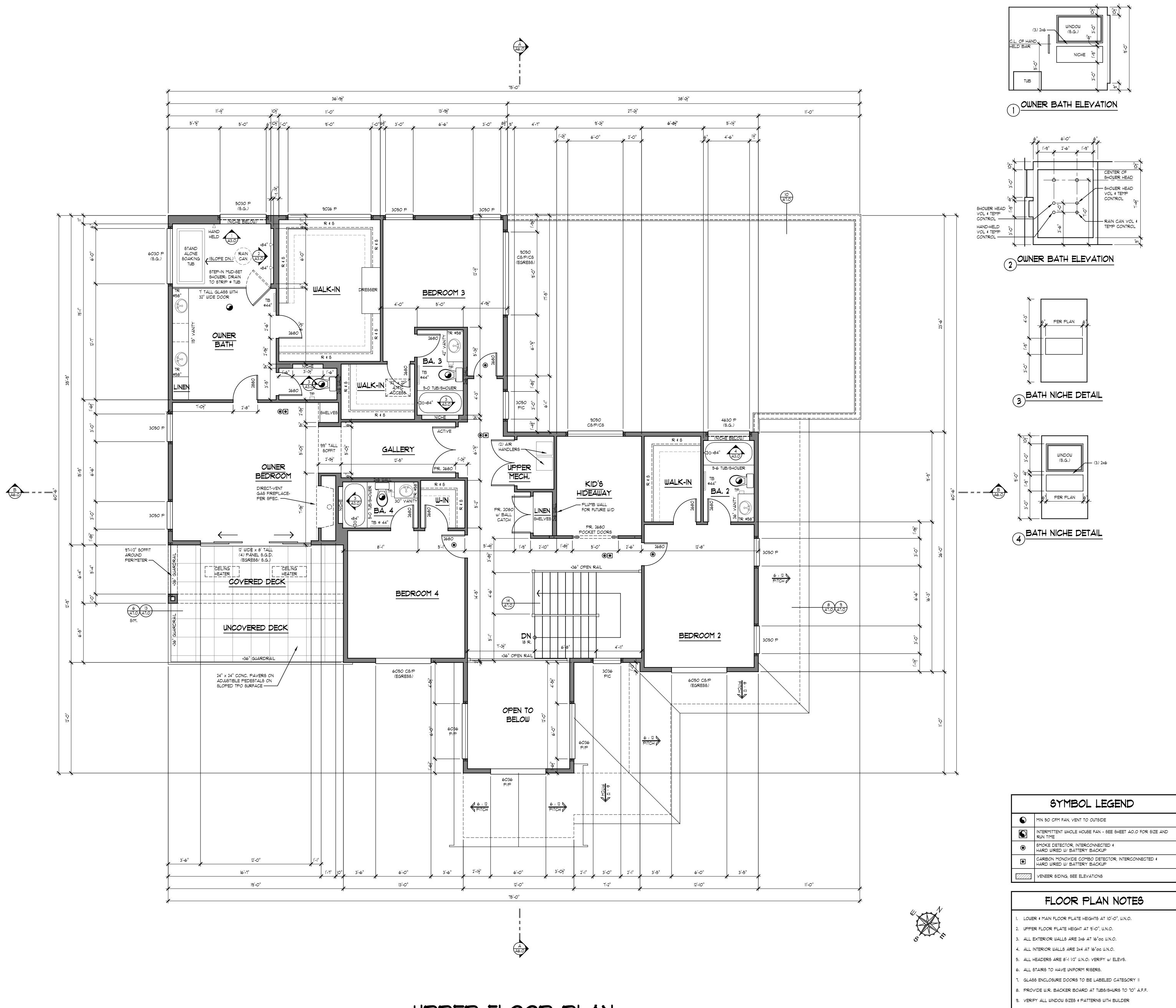




SCALE: 1/4" = 1'-0"

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		F.O. DOX 20206 Bellevue, WA 98015 (425) 889-5400 <u>小</u> · ·
ANTRONC DECIDENTCE	CINALNDULO NEOLUEINCE	8440 SE 82nd St, Mercer Island
	MAIN FLOOR	PLAN
	J۸ DRA J۸	AD DATE: 2023

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

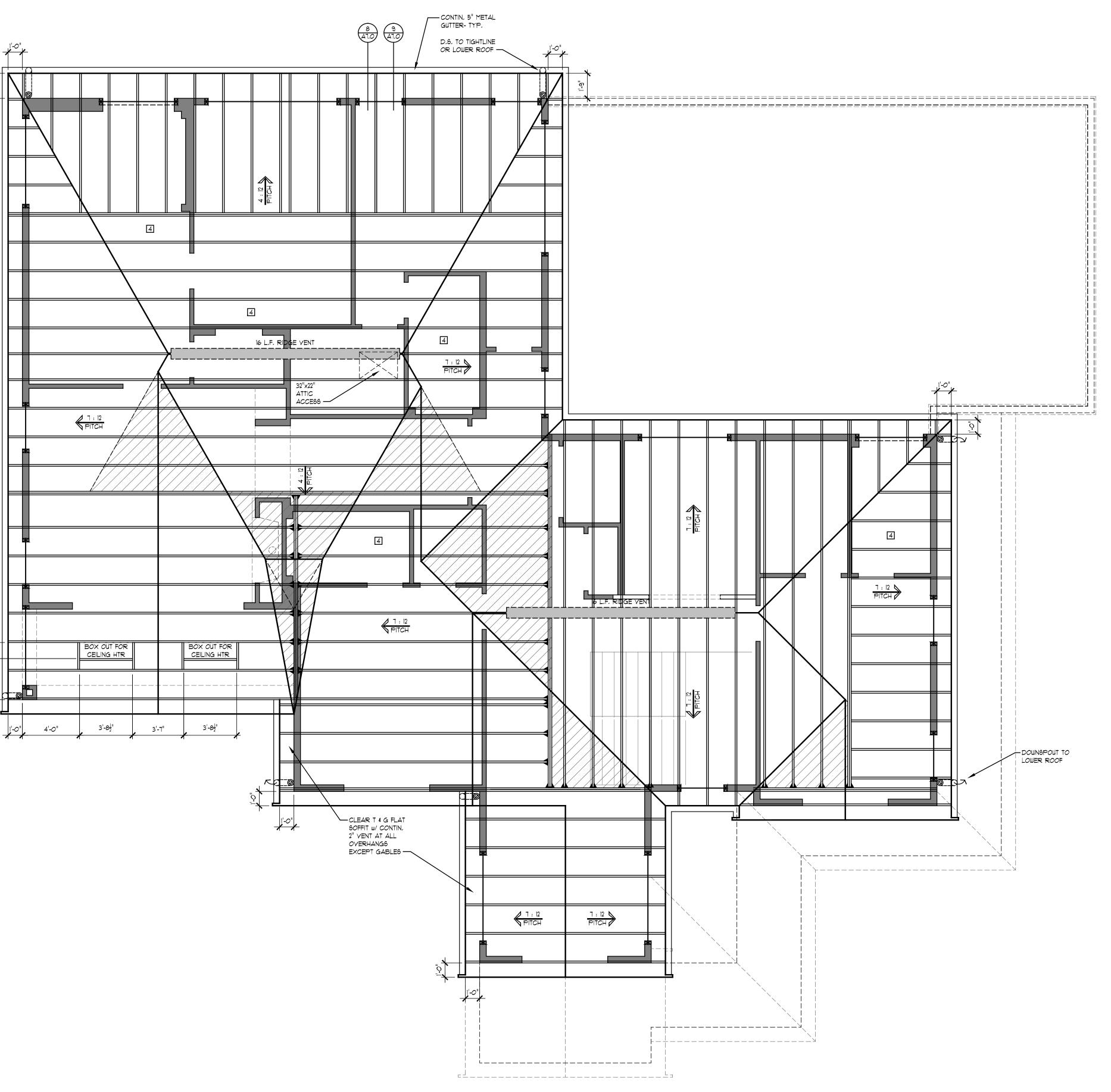
10. SEE COVER SHEET FOR ENERGY SPECIFICATIONS & VENTILATION REQUIREMENTS



ENTRY DOOR FROM GARAGE TO BE 20 MIN RATED SOLID CORE

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B A6.0 - - - -



(<u>A</u> (A6.0)

ARCHITECTURAL ROOF PLAN SCALE: 1/4" = 1'-0"

A A6.0



SEE STRUCTU FOR FRAMING DETAILS AND

ATTIC VE

2,379 6Q, FT, / 300 = 7,93 NET 6 O EAVE BLOCK VENTS PROVIDE 60 2" CONT SOFFIT VENTS PROVID _O_LOW ROOF VENTS WITHIN 36" C 32 RIDGE VENTS PROVIDED (.125 0 ROOF VENTS PROVIDED (.50 S O GABLE VENTS PROVIDED (.50 TOTAL VENTILATION PROVIDED (SEE

	SYMBOL
6 : 12 PITCH	ROOF PITCH INDICATOR
D6 ©	DOWNSPOUT LOCATION
	RIDGE VENTING
4" 0	4" FLAPPER ROOF VEN

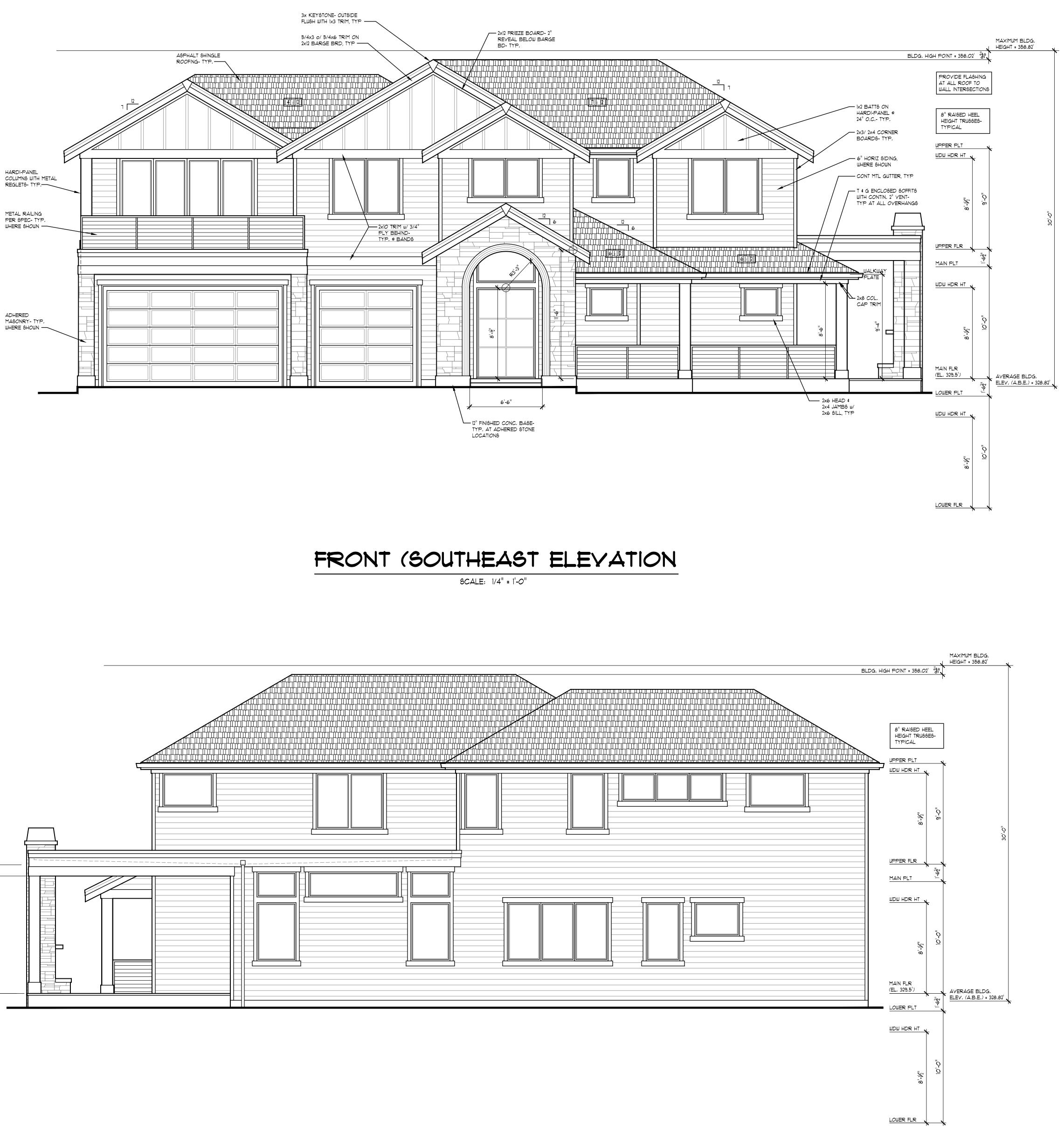


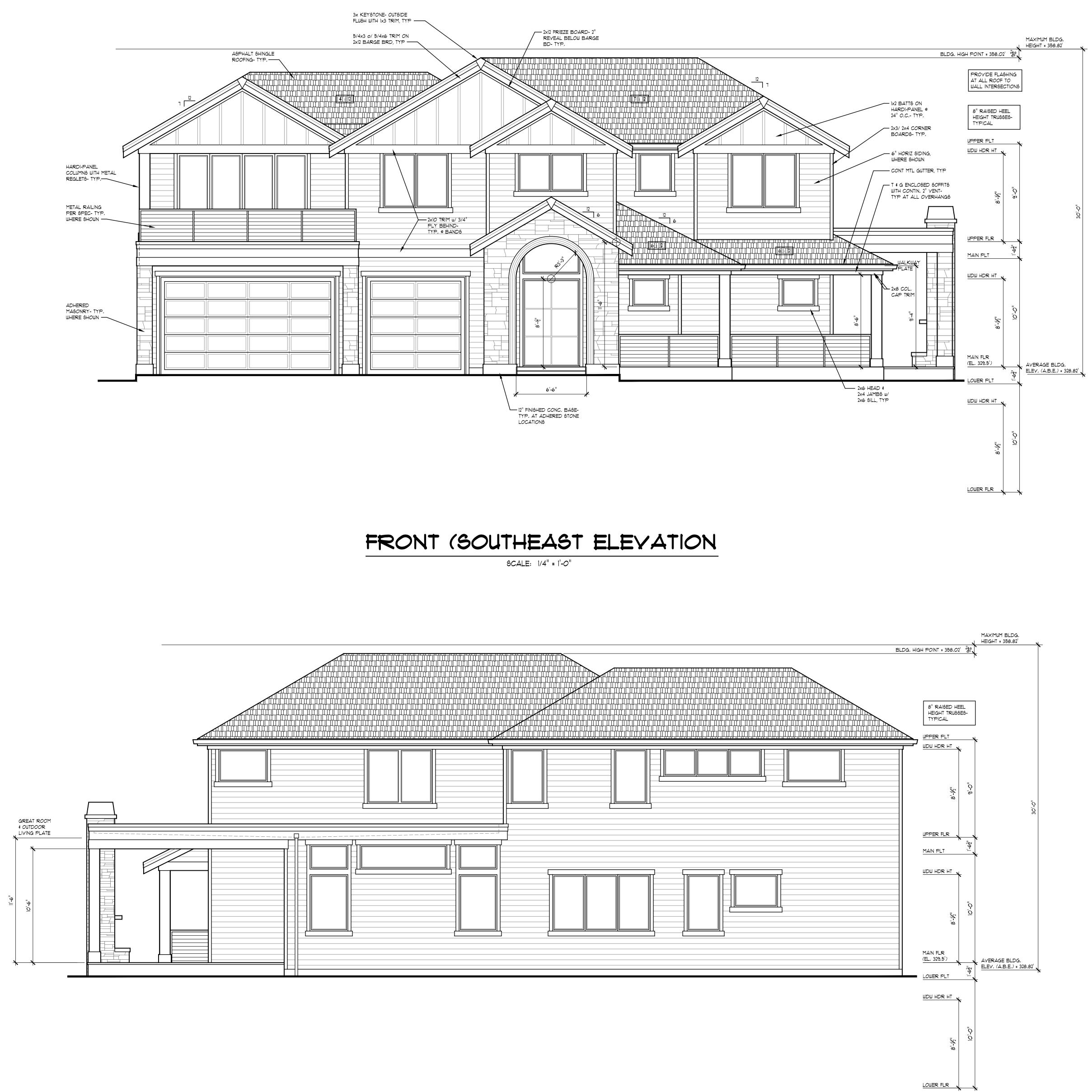
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TCHC, LLC. (DBA: BDR C	P.O. Box 50208 Bellevue, WA 98015 (425) 889-5400
GRANBOIS RESIDENCE	8440 SE 82nd St, Mercer Island
JI DRA JI ISSUE APR 7	IGN: MD WN: MD DATE: 2023 N No: EET

URAL SHEETS	
IG LAYOUT,	
D HARDWARE	

/ENTILATION						
T 6Q, FT, OF VENTILATION REQUIRED						
DED (.052 6Q, FT, EA)	0	6Q. FT.				
/IDED (.061 SQ. FT. PER L.F.)	4.02	SQ. FT.				
OF EAVES (.50 SQ, FT, EA)	0	5Q. FT.				
5 SQ, FT, PER L.F.) 4,0 SQ, FT.						
0 6Q, FT, EA)	0	SQ. FT.				
50 GQ, FT, EA)	0	SQ. FT.				
EE PLAN FOR LOCATIONS)	8.02	5Q. FT.				
_S & LEGEND						
OR, PER PLAN						

/ENT- BATH & DRYER



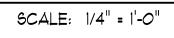


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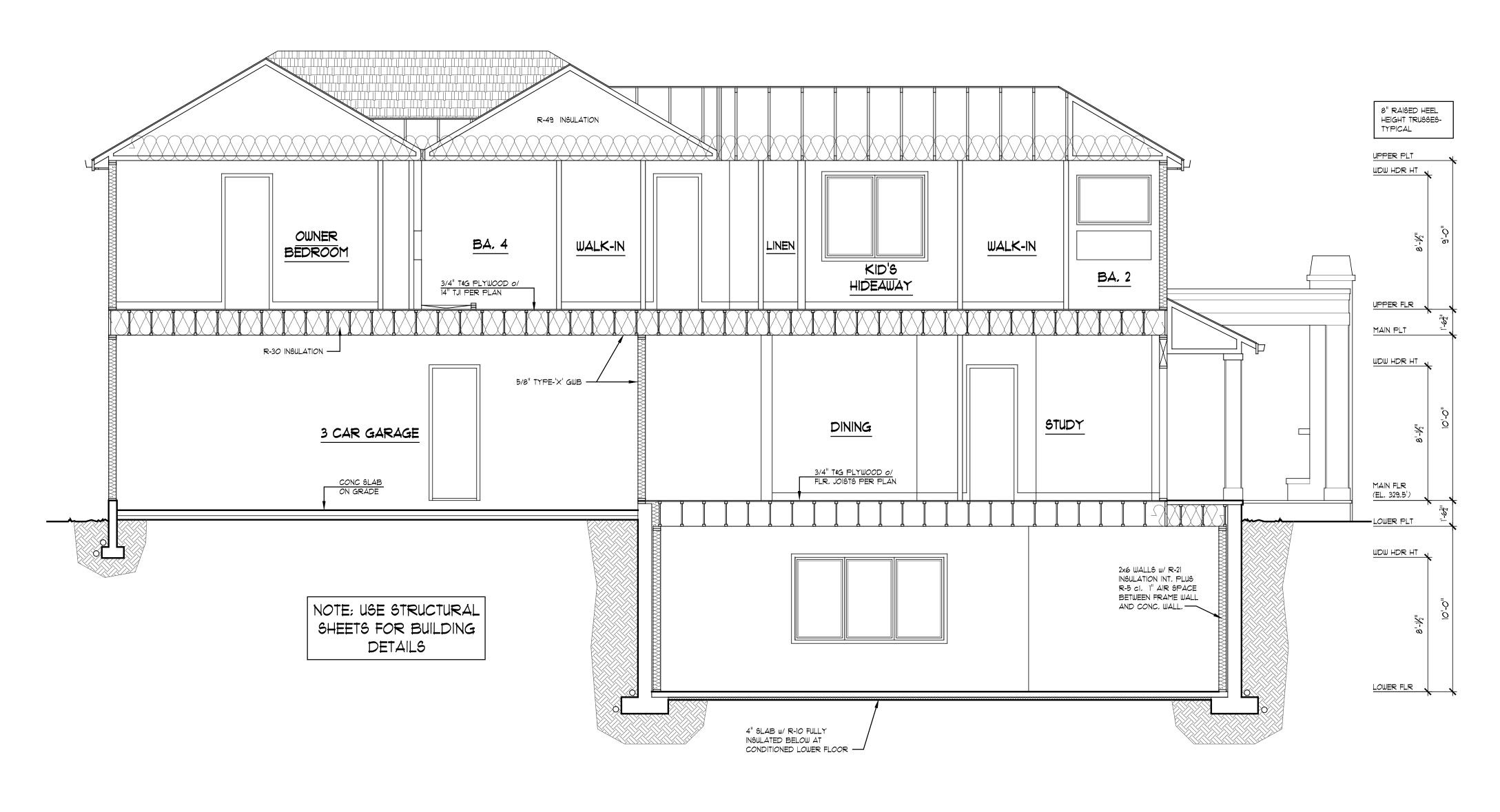




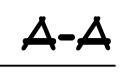
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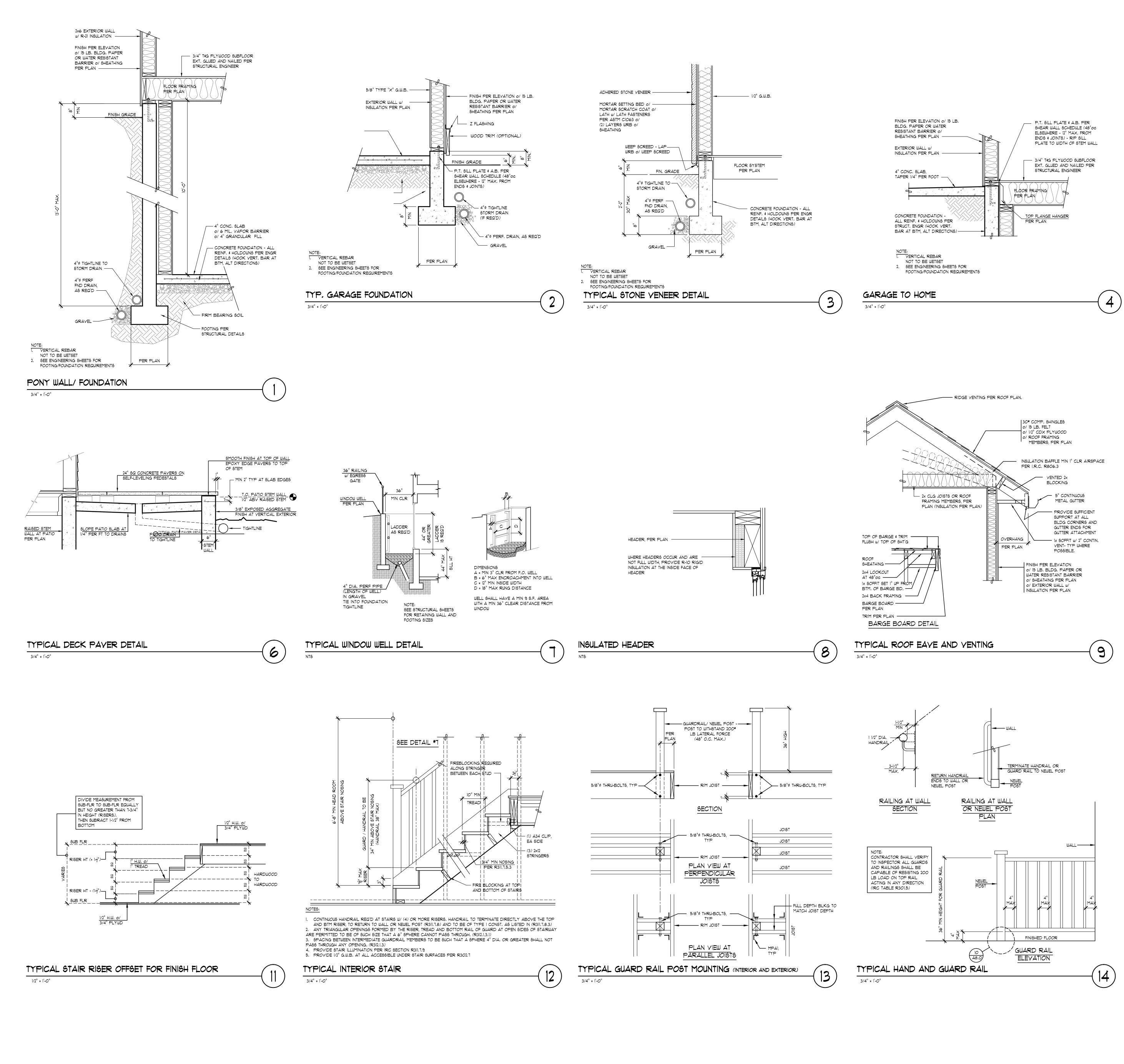


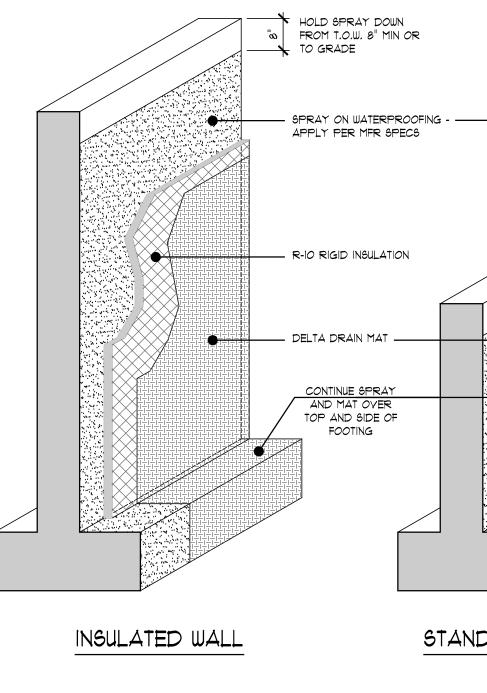




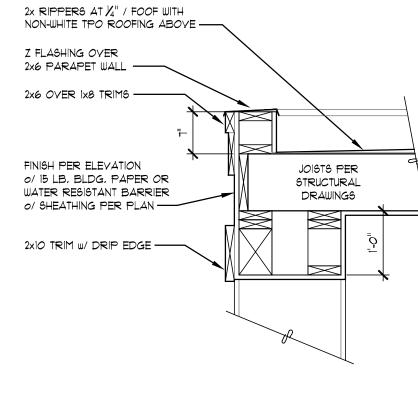


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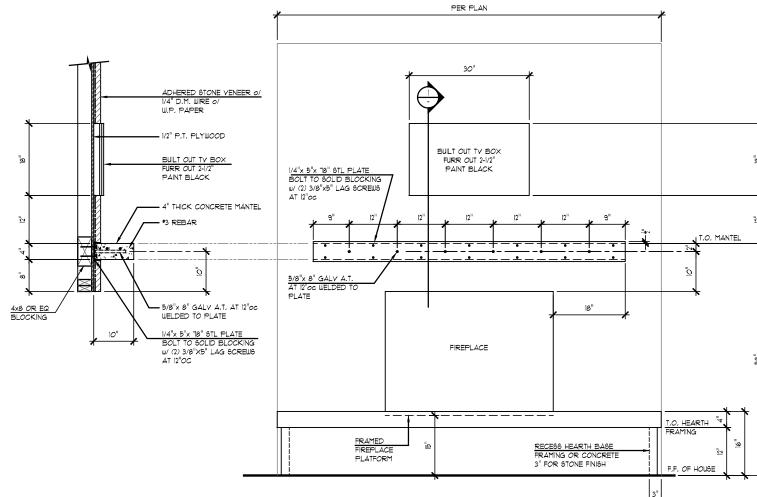


FOUNDATION WATERPROOFING



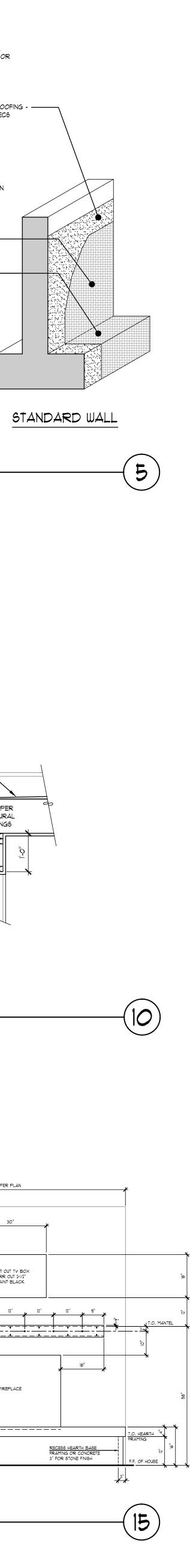
PARAPET ROOF DETAIL

3/4" = 1'-0"

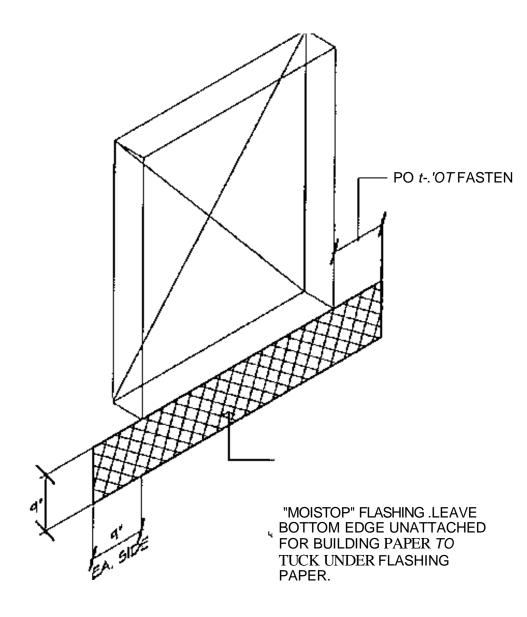


OUTDOOR FIREPLACE DETAIL

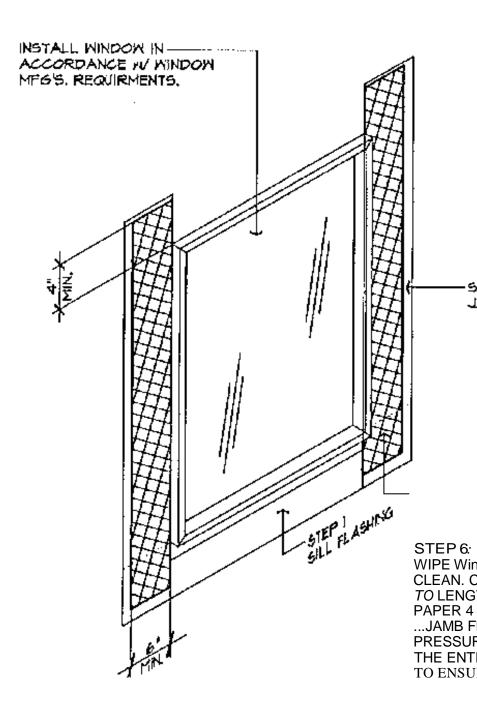
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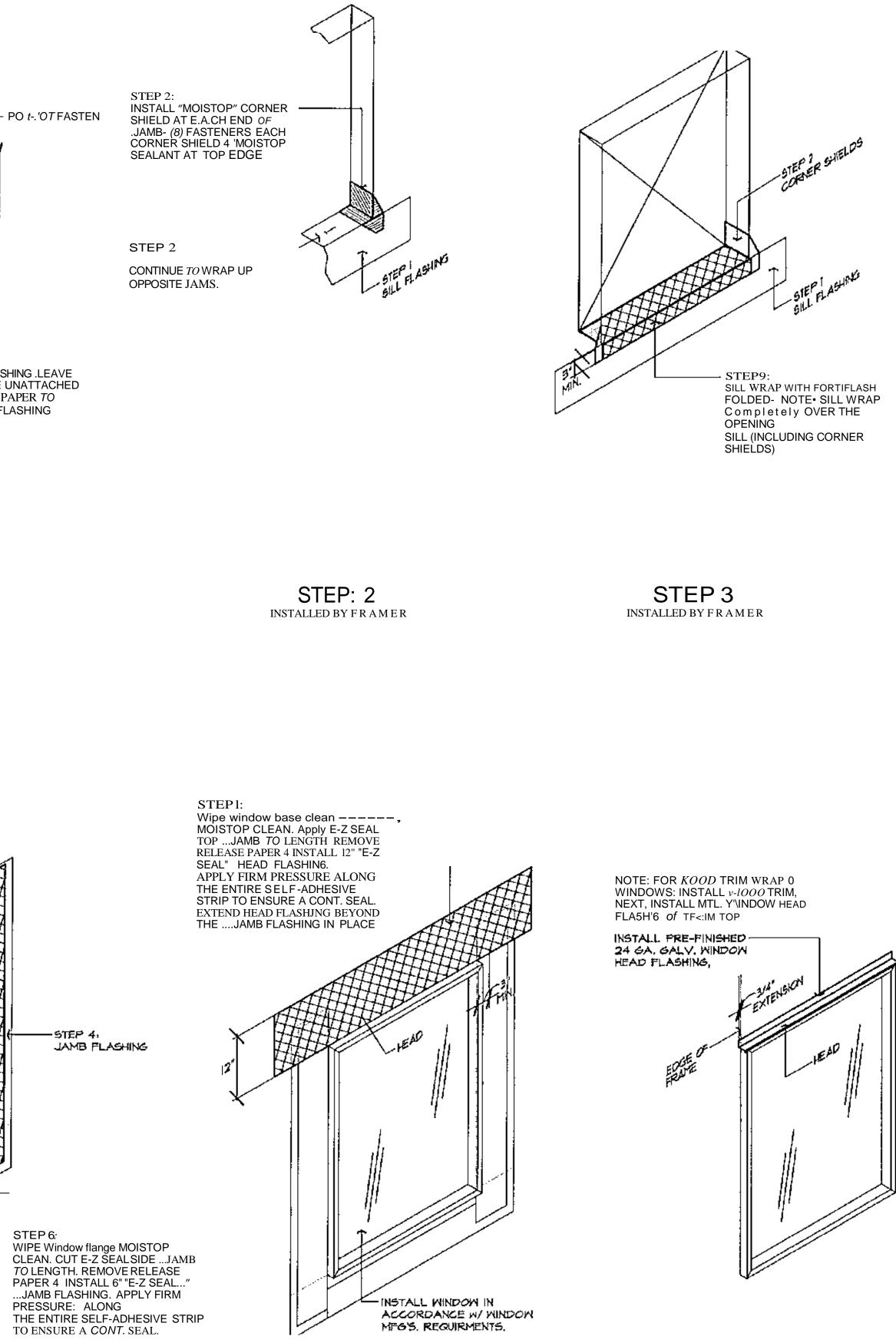




STEP: 1 INSTALLED BY FRAMER

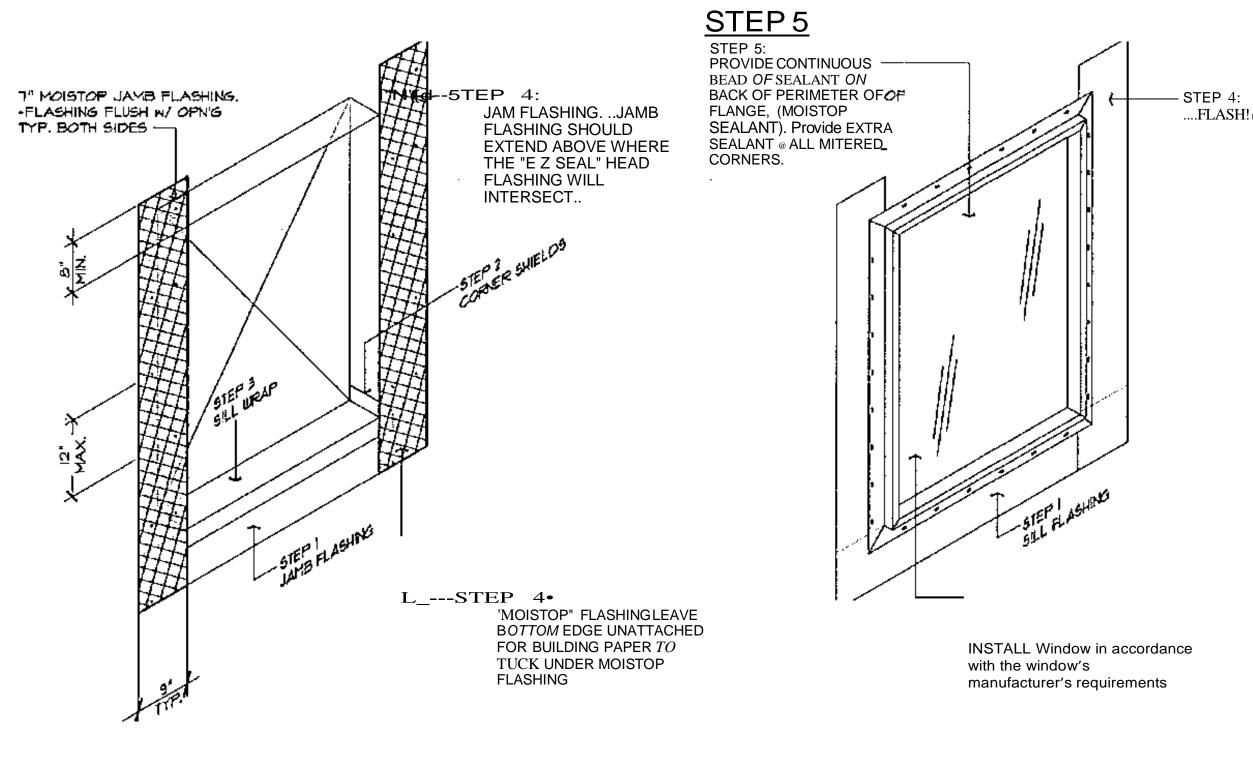


STEP 6 INSTALLED BY SIDER



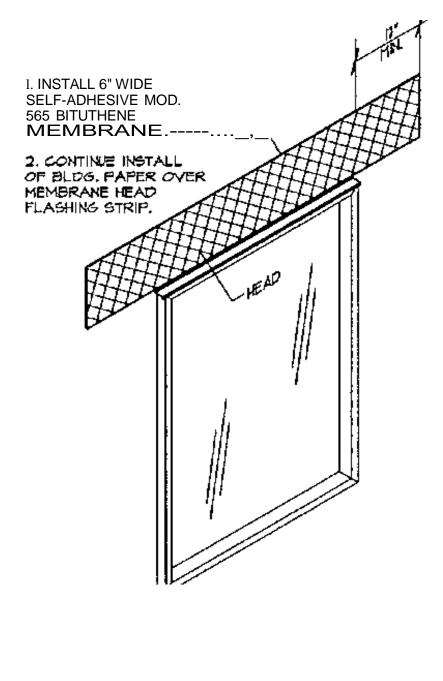
STEP7 INSTALLED BY SIDER

STEP 8 INSTALLED BY SIDER

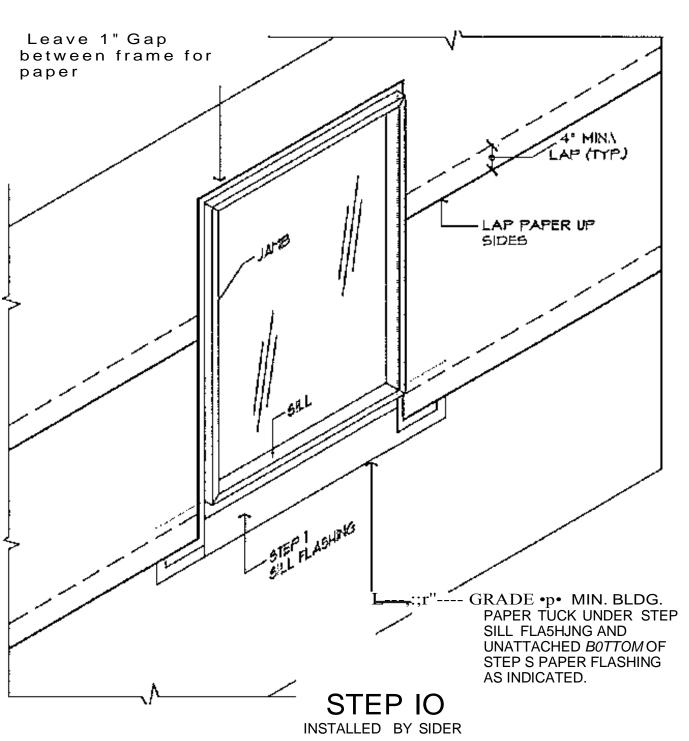


STEP 4 INSTALLED BY FRAMER

STEP 5 INSTALLED BY FRAMER



STEP 9 INSTALLED BY SIDER







GRANBOIS RESIDENCE S230110-1



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PROJECT INFORMATION

PROJECT ADDRESS 8440 SE 82ND ST MERCER ISLAND, WA 98040

ARCHITECT BDR CUSTOM, LLC 5000 CARILLON POINT STE 500 KIRKLAND, WA 98033 PHONE: (425) 889-5400 CONTACT: JIM DWYER

STRUCTURAL ENGINEER L120 ENGINEERING & DESIGN 13150 91ST PL NE KIRKLAND, WA 98034 PHONE: (425) 636-3313 EMAIL: MTHURFJELL@L120ENGINEERING.COM CONTACT: MANS THURFJELL, PE



PROJECT NAME

GRANBOIS RESIDENCE 8440 SE 82ND ST,

MERCER ISLAND

PROJECT NUMBER

S230110-1

DRAWN BY - MR

CHECKED BY - MRT

SHEET DATE - 03/15/2023

SCALE

24X36 SHEET:1/4"=1'-0"

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CODES

ENGINEERED PER: 2018 (IRC) INTERNATIONAL RESIDENTIAL CODE 2018 (IBC) INTERNATIONAL BUILDING CODE

SHEET INDEX

COVER SHEET...S-0 STRUCTURAL GENERAL NOTES...S-1 FOUNDATION PLAN...S-2 BASEMENT WALL FRAMING AND SHEAR WALL PLAN...S-3 FIRST FLOOR FRAMING PLAN...S-4 FIRST FLOOR WALL FRAMING AND SHEAR WALL PLAN...S-5 SECOND FLOOR FRAMING PLAN...S-6 SECOND FLOOR WALL FRAMING AND SHEAR WALL PLAN...S-7 ROOF FRAMING PLAN...S-8

> STRUCTURAL DETAILS...SD-1 STRUCTURAL DETAILS...SD-2 STRUCTURAL DETAILS...SD-3

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

CODE: 2018 IBC/IRC & AMENDMENTS AS ADOPTED BY THE REVIEWING AGENCY/COUNTY. ROOF25 PSF SNOW (GROUND)

FLOORS 40 PSF RESIDENTIAL

BALCONY/DECK	60 PSF

BASIC WIND SPEED .100 MPH, EXPOSURE B, KZT=1.90 SEISMIC

MAPPED SPECTRAL ACCELERATION, Ss	1.64
MAPPED SPECTRAL ACCELERATION, S1	
SOIL SITE CLASS	D

GENERAL CONDITIONS

- 1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES
- 3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED
- 4. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS"
- 5. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
- 6. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.
- 7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.
- 8. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
- 9. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK
- 10. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 11. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.
- 12. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
- 13. DISCREPANCIES FOUND BETWEEN STRUCTURAL DRAWINGS AND OTHER DOCUMENTS ARE TO BE NOTED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.
- 14. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE "INTERNATIONAL BUILDING CODE" (IBC), AND STANDARDS REFERENCED THEREIN.

FOUNDATION

- 1. FOUNDATION DESIGN PARAMETERS ASSUMED PER REPORT PROVIDED BY GEOTECH CONSULTANTS DATED 2/28/23:
 - FOOTING BEARING PRESSURE: 3500 PSF
 - LATERAL EARTH PRESSURE:
 - ACTIVE: 35 PCF (FREE) H*10 PCF (RESTRAINED)
 - PASSIVE: 300 PCF
 - COEFFICIENT OF BASE FRICTION: 0.5
- 2. SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH THE JURISDICTIONAL REOUIREMENTS.
- 3. ALL FOUNDATIONS ARE TO BEAR ON COMPETENT NATIVE SOILS OR STRUCTURAL FILL. STRUCTURAL FILL IS TO BE COMPACTED TO 95% DENSITY PER ASTM D-1557.

CONCRETE

- 1. REFERENCE STANDARDS: ACI-301, ACI-318, IBC.
 - MINIMUM CONCRETE STRENGTH (28 DAYS):
 - FOOTINGS AND STEM WALLS......2,500 PSI 5 SACK MIX
 - BASEMENT FOUNDATION RETAINING WALLS......2,500 PSI 5.5 SACK MIX
 - SLAB-ON-GRADE......2,500 PSI 5 SACK MIX

 - AIR-ENTRAINMENT 2.5% TO 5.5% FOR EXPOSED CONCRETE
- 2. MIXING: COMPLY WITH ACI-301. DO NOT EXCEED THE AMOUNT OF WATER SPECIFIED IN THE APPROVED MIX. PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER
- 3. PLACING: COMPLY WITH ACI-301. PROVIDE A 3/4 INCH CHAMFER ALL EXPOSED CONCRETE EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS.
- 4. SLUMP: 4" PLUS OR MINUS ONE INCH. DO NOT ADD WATER TO MIX TO INCREASE SLUMP. GREATER SLUMP, ACCELERATED SET, OR HIGH EARLY STRENGTH MAY BE ACHIEVED BY USING APPROVED ADMIXTURES.
- CURING: COMPLY WITH ACI-301. KEEP CONCRETE MOIST FOR SEVEN DAYS MINIMUM.
- 6. JOINTING: PROVIDE ADEQUATE JOINTING TO MINIMIZE EFFECTS OF VOLUME CHANGE. JOINTS SHOWN
- MAY BE ADJUSTED AT CONTRACTOR'S OPTION, WITH PRIOR APPROVAL FROM ENGINEER.
- 7. WEATHER EXTREMES: COMPLY WITH ACI 305R FOR HOT WEATHER. COMPLY WITH ACI 306R FOR COLD WEATHER.
- 8. WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 (BY WEIGHT), TYPICAL

REINFORCING STEEL

- (MSP-1)
- 2. MATERIALS:
- REINFORCING STEEL: ASTM A615, GRADE 60 3. SPLICES:
 - CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT

4. COVER:

- SLABS......2 INCHES
- 5. FORMED SURFACES:
 - WEATHER FACE ...1-1/2 INCHES, #5 BARS AND SMALLER 2 INCHES, # 6 BARS AND LARGER INTERIOR FACE ... 3/4 INCH FOR SLABS AND WALLS 1-1/2 INCHES FOR BEAMS AND COLUMNS

STRUCTURAL AND MISC. STEEL

- 2. MATERIALS:
 - BOLTS ASTM A307, UNLESS OTHERWISE NOTED WF BEAMS - ASTM A572-50 (Fy = 50,000 PSI) HSS ROUND COLUMNS - ASTM A500 Gr. B (Fy = 42,000 PSI) HSS RECTANGULAR COLUMNS - ASTM A500 Gr. B (Fy = 46,000 PSI) ALL OTHER STEEL - ASTM A36 (Fy = 36,000 PSI)

STRUCTURAL STEEL WELDING

CONFORM TO THE AWS CODES D1.1 AND D1.3. ALL WELDING TO BE DONE ONLY BY WABO CERTIFIED FLOOR SHEATHING: 3/4" NOMINAL APA RATED PANELS, PRP-108 PERFORMANCE STANDARD, NAILED AND WELDERS AND HAVE SPECIAL INSPECTION BY WABO CERTIFIED INSPECTION AGENCY OR BE DONE BY GLUED. CONFORM TO IBC IDENTIFICATION INDEX 40/20 FOR SUPPORTS TO 20 INCHES ON CENTER. WABO CERTIFIED FABRICATION SHOP. EITHER SPECIAL INSPECTION REPORT OR WABO FABRICATION ADHESIVES ARE TO CONFORM TO APA SPECIFICATION AFG-01. PROVIDE T&G EDGES AT LONG PANEL SHOP CERTIFICATION SHOULD BE AVAILABLE ON SITE FOR THE BUILDING INSPECTOR. WELDS NOT EDGES. LAY UP WITH MINIMUM 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION. NAIL 6 INCHES SPECIFIED ARE TO BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES. ON CENTER AT END SUPPORTS AND 10 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. USE 10D COMMON NAILS. PROVIDE EXP-1 RATING.

DIMENSIONAL LUMBER

2

MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF WWPA

MINIMUM DIMENSIONAL L	JMBER GRADES TO BE:
WALL STUDS:	2x, HF STUD GRAD
WALL PLATES:	2x HF STANDARD
	2x, 3x PRESSURE
JOISTS:	2x6 HF STUD GRA
	2x8 AND UP HF #2
BEAMS, HEADERS:	6x DF#2; 4x DF#2
POSTS:	4x, 6x, DF #2
LUMBER NOT NOTED	TO BE HF #2.

- PROVIDE STANDARD CUT WASHERS FOR NUTS BEARING AGAINST WOOD, AND 1/4"x3" HOT-DIPPED GALVANIZED SQUARE PLATE WASHERS FOR ALL ANCHOR BOLTS.
- 4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH OR RESTING ON FOUNDATIONS, SHALL BE PRESSURE TREATED HEM FIR OR BETTER. ALL BEARING WALL PLATES SHALL HAVE 5/8"Ø ANCHOR BOLTS PLACED A MAXIMUM 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 4'-0" O.C. SPACING). ALL TREATED PRESSURE TREATED WOOD MEMBERS SHALL COMPLY WITH AWP4 U1 AND AWP4 M4 STANDARDS.
- 5. CAST-IN-PLACE ANCHOR BOLTS SHALL HAVE A MINIMUM 7" EMBEDMENT. ALTERNATE 5/8"Ø EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT II ANCHORS EMBED 7", OR APPROVED ALTERNATE.
- 6. BOLTS IN WOOD BEAMS SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.
- 7. NAILS: NAILING IN ACCORDANCE WITH IBC TABLE 2304.10.1. 16D NAILS MAY BE 16D SINKERS (0.148 x 3-1/4") UNLESS NOTED OTHERWISE.
- ARE AS FOLLOWS: 8. PRESURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM 2. SOIL: VERIFY SUBGRADE IS DRY DENSE AND DOES NOT HAVE STANDING WATER PRIOR A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED TO POURING FOOTINGS. 3. CONCRETE: INSPECTIONS REQUIRED ONLY FOR DESIGN MIXES SPECIFIED GREATER THAN GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 oz OF ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL. SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND 2500 PSI. TAKE CONCRETE CYLINDERS AS REQUIRED. VERIFY SLUMP AND STRENGTH. CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED 4. **REINFORCING**: HANGERS) VERIFY ALL REINFORCING IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE AND GRADE.

MANUFACTURED TIMBER

PRODUCT	APPLICATION
LSL RIMBOARD (1.3E)	RIMBOARD OR STA
TIMBERSTRAND LSL (1.3E)	HEADER, BEAM, O
TIMBERSTRAND LSL (1.55E)	RIMBOARD, HEADI
TIMBERSTRAND LSL (1.3E)	WALL STUD 2X4 &
(1.5E)	WALL STUD > 2X6
MICROLLAM LVL (1.9E)	HEADER, BEAM
PARALLAM PSL (2.2E)	HEADER, BEAM
PARALLAM PSL (1.8E)	COLUMN

WOOD STRUCTURAL CONNECTIONS

ALL FRAMING ANCHORS, POST CAPS, BASES, HANGERS, STRAPS, ETC., SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR ENGINEER APPROVED EQUAL.

1. REFERENCE STANDARDS: ACI "DETAILING MANUAL" (SP-66); CRSI MANUAL OF STANDARD PRACTICE

LAP CONTINUOUS REINFORCING BARS 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED. PROVIDE

REFERENCE STANDARDS: DESIGN, FABRICATION AND ERECTION ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"

- DE, 3x HF #2
- GRADE
- TREATED HF STANDARD GRADE AT FOUNDATION DE
- 2, WWPA GRADING

WIDTHS 1 ¼" TAIR STRINGER OR COLUMN < 9" DEPTH 3 1⁄2" 1 ³⁄4",3 ½" DER, OR < 9" DEPTH BEAM & 2X61 1/2" 1 1⁄2" 1 3⁄4" 3 ½", 5 ¼", 7" 3 ½", 5 ¼", 7"

BRICK VENEER ANCHORAGE

- D/A 2135 SEISMIC VENEER ANCHORS BY DUR-O-WAL OR APPROVED EQUAL AT WOOD STUD WALL.
- D/A 5213 SEISMIC VENEER ANCHORS BY DUR-O-WAL OR APPROVED EQUAL AT CONCRETE WALL
- 3. PLACE ANCHORS AT 16" O.C. VERTICAL AND 16" HORIZONTAL. PROVIDE #9 GA HORIZONTAL JOINT REINFORCING WIRE . ATTACH TO WOOD STUDS WITH #8 CORROSION RESISTANT SCREWS AND TO CONCRETE WITH 1/4"Ø EXPANSION ANCHORS.
- AT ALL OPENINGS LARGER THAN 16" IN EITHER DIRECTION, ANCHORS TO BE SPACED WITHIN 12" OF THE OPENING AT ALL SIDES.
- 5. USE TYPE N MORTAR COMPLYING WITH ASTM C270

GLU-LAMINATED TIMBER

- 1. GLU-LAMINATED WOOD BEAMS, DOUGLAS FIR COAST REGION, KILN DRIED, AITC SPECIFICATION 24F-V4 FOR SIMPLE SPANS (TYPICAL), AND 24F-V8 FOR CANTILEVER-SPANS (WHERE SPECIFIED). PROVIDE AITC STAMP ON TIMBER AND SUBMIT CERTIFICATE TO ARCHITECT AND ENGINEER. MATERIALS MUST BE OBTAINED FROM AN AITC APPROVED FABRICATOR. ALL GLU-LAM BEAMS SHALL FIT SNUG AND TIGHT IN THEIR CONNECTIONS AND DEVELOP FULL BEARING AS INDICATED. NO SUBSTITUTION OF OTHER SPECIES, GLU-LAM ADHESIVE TO BE "WET- USE" TYPE, PROVIDE 2000 FT RADIUS CAMBER, U.N.O.
- MANUFACTURER'S CERTIFICATE SHALL BE PRESENTED TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

WOOD SHEATHING

- ROOF SHEATHING: 7/16" MINIMUM THICKNESS APA RATED PRP-108 PERFORMANCE STANDARD, EDGE SEALED PANELS DESIGNED TO SPAN 24 INCHES EITHER PARALLEL OR PERPENDICULAR TO LONG AXIS OF PANEL WITH 35 PSF LIVE LOAD. LAY UP WITH MINIMUM 1/8" CLEAR BETWEEN PANELS TO ALLOW FOR EXPANSION, NAIL 6 INCHES ON CENTER ALONG EDGES, AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, USE 10D COMMON NAILS, U.N.O. PROVIDE EXP-1 RATING.
- 3. WOOD SHEARWALL SHEATHING: PLYWOOD OR OSB APA RATED PRP-108 PERFORMANCE STANDARD PER IBC STD 23-2 OR 23-3 TYPE C-C OR C-D. USE EXTERIOR ADHESIVES. USE 8d COMMON NAILS. PROVIDE EXP-1 RATING. ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER STUDS. HORIZONTAL JOINTS SHALL OCCUR OVER BLOCKING EQUAL IN SIZE TO THE STUDDING. REFER TO SHEAR WALL SCHEDULE FOR PANEL THICKNESS.
- 4. NAILING SPECIFICATIONS: CONFORM TO IBC SECTION 2304.10 "CONNECTIONS AND FASTENERS." UNO ON PLANS, NAILING PER TABLE 2304.10.1, AND FOR ROOF/FLOOR DIAPHRAGMS AND SHEARWALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING. ALTERNATE NAILS MAY BE USED BUT ARE SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. SUBSTITUTION OF STAPLES FOR THE NAILING OF RATED SHEATHING IS SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

SHOP DRAWINGS AND SUBMITTALS

1. SUBMIT 2 SETS OF PRINTS AND 1 SET OF REPRODUCIBLES FOR REVIEW FOR:

- A) REINFORCING STEEL C) GLU-LAMINATED BEAMS D) PRE-MANUFACTURED WOOD TRUSSES B) MISCELLANEOUS STEEL
- 2. SUBMIT 3 COPIES FOR REVIEW PRIOR TO FABRICATION FOR:
- CONCRETE DESIGN MIX A)
- B) CONCRETE INSERTS
- C) EPOXY ADHESIVES

- INSPECTIONS 1. REFERENCE STANDARDS: IBC 110.
- INSPECTIONS ARE TO BE PERFORMED BY THE BUILDING OFFICIAL. INSPECTIONS REQUIRED
- 5. WOOD: DIAPHRAGM NAILING, BLOCKING AND HOLD-DOWN CONNECTIONS.

ALTERNATES:

1. ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW; CONTRACTOR WILL BEAR BURDEN FOR ADDITIONAL PAYMENT AT NO ADDITIONAL COST TO OWNER.

SETTLEMENT SHRINKAGE

1. DUE TO CROSS GRAIN WOOD SHRINKAGE, THIS BUILDING IS EXPECTED TO SETTLE APPROXIMATELY 3/8 INCH PER STORY. ALL PLUMBING AND MECHANICAL DUCTS SHALL BE DESIGNED WITH FLEXIBLE JOINTS OR OTHERS MEANS TO APPROPRIATELY ACCOMMODATE THIS NORMAL SETTLEMENT. ALL INTERIOR AND EXTERIOR SHEATHING AND FINISHES SHALL BE INSTALLED SUCH THAT NO DAMAGE WILL OCCUR. SHRINKAGE IS EXPECTED IN THE DEPTH OF THE FLOOR PLATES AND NOT IN THE LENGTH OF THE WALL STUDS.

THE ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER AND/OR ARCHITECT SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL, OR OCCUPANCY BY ANY PERSON.

GLB

GR

GYP

HDG

HDR

HF

HG1

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MAX

MIN

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RAF

REF

REINF

REQD

REQS

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SIM

SPF

STD

SYP

T/BM

T/PL

T/ST

T/W

ΤF

T1

ΤP

TR

TYP

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WC

WP

WWF

T/SLAB

T/CONC

SF



JOBSITE SAFETY:

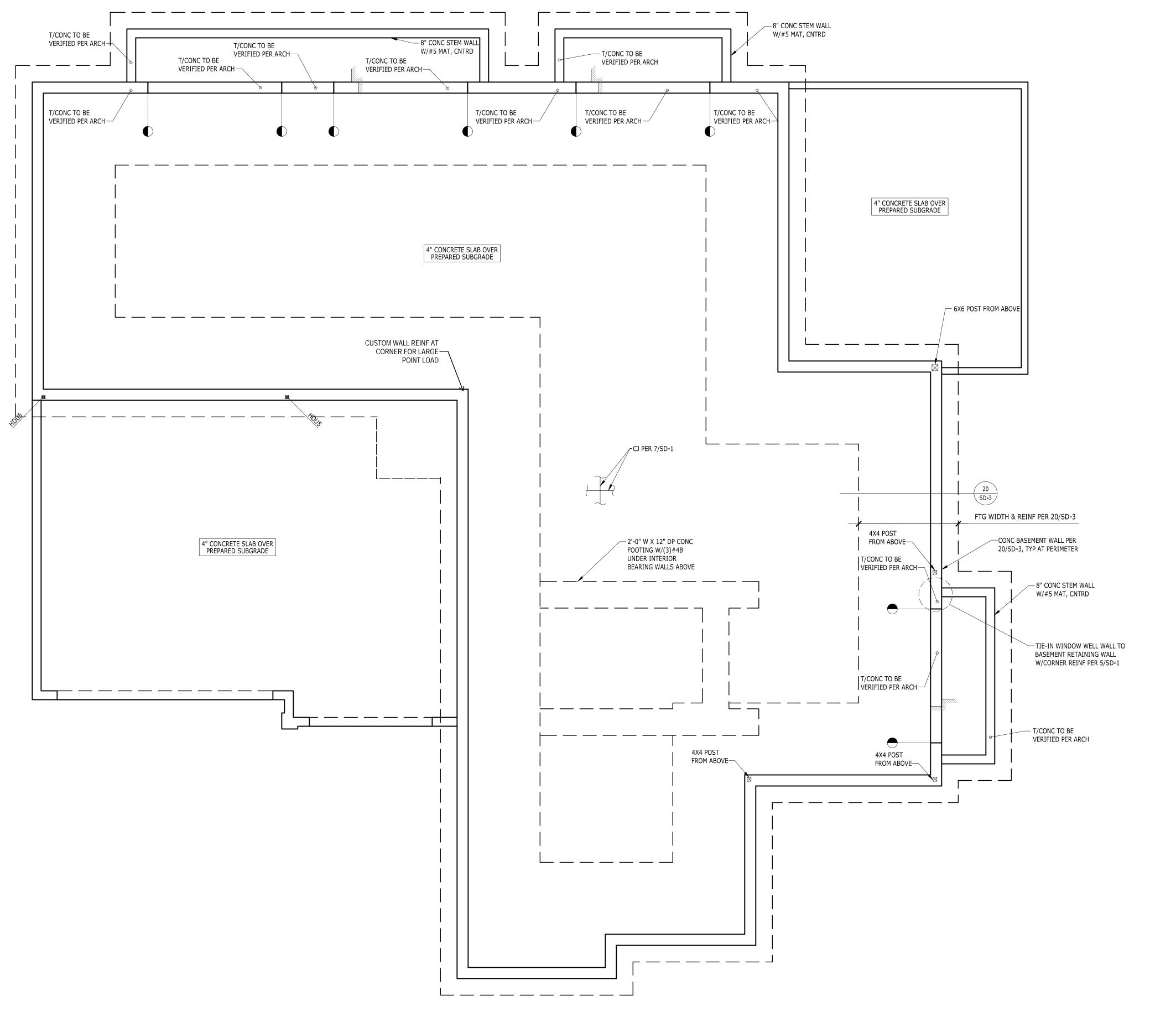
ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
AYC	ALASKAN YELLOW CEDAR
BB	BOX BEAM
BF	BOTTOM FLUSH
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BP	BOTTOM PLATE
BRG	BEARING
BTWN	BETWEEN
BSMT	BASEMENT
B/W	BOTTOM OF WALL
CANT	CANTILEVER
CANT	
	CONTROL JOINT
CLG.	CEILING
CLJ	CEILING JOIST
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DET	DETAIL
DF	DOUGLAS FIR (SOUTH)
DFL	DOUGLAS FIR LARCH
DIM	DIMENSION
DJ	DOUBLE JOIST
DIA	DIAMETER
DN	DOWN
DS	DOWN SPOUT
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	EDGE NAILING (PANEL)
EOR	ENGINEER OF RECORD
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
FB	FLUSH BEAM
FIN	FINISH
FL	FLOOR
FLSHG	FLASHING
FND	FOUNDATION
FND	FIREPLACE
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED

GLULAM BEAM GRADE GYPSUM WALL BOARD HOT-DIPPED GALVANIZED HEADER HEM FIR HEIGHT HEIGHT INCH JOINT MAXIMUM MINIMUM MISCELLANEOUS NON-BEARING NUMBER ON CENTER PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED RAFTER REFERENCE REINFORCEMENT REQUIRED REQUIREMENTS SQUARE FOOT SHEATHING SIMILAR SPRUCE PINE FIR STANDARD SOUTHERN YELLOW PINE TOP OF TOP OF BEAM TOP OF CONCRETE TOP OF PLATE TOP OF SLAB TOP OF STEEL TOP OF WALL TOP FLUSH TRIPLE JOIST TOP PLATE THREADED ROD TYPICAL UNLESS NOTED OTHERWISE UNDER POST ABOVE UNDER WALL ABOVE VCB (V.C.B.) VERTICAL CRUSH BLOCKING VERTICAL VERIFY IN FIELD WITH WESTERN CEDAR WATERPROOF WELDED WIRE FABRIC







FOUNDATION PLAN

FOUNDATION NOTES

- 1. GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- 2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH. PROVIDED DIMENSIONS ARE TO FACE OF CONCRETE STEM WALL OR CENTER OF INDIVIDUAL FOOTING. OUTSIDE FACE OF STEM WALL ALIGNS WITH OUTSIDE FACE OF STUD WALL UNO. STHD HOLDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD/HTT HOLDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- 3. VERIFY ALL T/CONC ELEVATIONS ON ALL CONCRETE INCLUDING PARTIAL HEIGHT RETAINING WALLS. CONCRETE TO EXTEND MIN 8" ABOVE FINISHED GRADE. PROVIDE 1" RECESS AT DOUBLE SIDED SHEARWALLS TO ACCOMODATE 3X SILL PLATE.
- 4. FOOTINGS ARE TO BEAR ON COMPETENT NATIVE SOIL OR STRUCTURAL FILL CAPABLE OF SUPPORTING THE ASSUMED BEARING PRESSURE PER GENERAL NOTES. REFERENCE GEOTECHNICAL REPORT (IF AVAILABLE) FOR SUBGRADE PREPARATION, FILL REQUIREMENTS, FOOTING DRAINS, AND OTHER REQUIREMENTS. REFERENCE ARCH SET (OR OTHERS IF APPLICABLE) FOR FOOTING DRAINS AROUND PERIMETER OF BUILDING.
- 5. PRIOR TO POURING CONCRETE CONTRACTOR SHALL LOCATE AND VERIFY LOCATIONS OF ALL FOUNDATION OPENINGS, PENETRATIONS, AND SLOPES.
- 6. ALL WOOD LOCATED WITHIN 8" OF FINISHED GRADE, EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL FASTENERS IN CONTACT WITH FIRE-RETARDANT OR PRESSURE-TREATED WOOD SHALL BE COVERED IN PROTECTIVE COATING (I.E. HDG OR SIM).
- 7. SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36KSI) HDG, ASTM A307 (36KSI) HDG OR SIM. ANCHOR BOLTS TO BE 5/8"Ø X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX). EACH ANCHOR BOLT TO HAVE STANDARD HDG NUT AND WASHER INSTALLED OVER 3"X3"X1/4" HDG PLATE WASHER WITH AND EDGE OF THE PLATE WASHER LOCATED WITHIN 1/2" OF SHEATHED FACE OF WALL. FOR TWO-SIDED SHEARWALLS W/ 2X6 WALL FRAMING USE 4X4X1/4" PLATE WASHERS OR STAGGER ANCHOR BOLTS SO THAT EVERY OTHER PLATE WASHER IS LOCATED WITHIN 1/2" OF EACH FACE OF THE WALL.
- 8. HOLDOWNS BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER SPECIFICATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. HOLDOWN THREADED RODS SHALL BE ASTM F1554 (36KSI) HDG UNO. EMBEDDED END OF THREADED ROD TO HAVE 3"X3"X1/4" HDG PLATE WASHER BETWEEN TWO HAND-TIGHTENED HDG STANDARD NUTS.
- CJ INDICATES CONTROL JOINT.
 FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS
- BY OTHERS.
- 11. EXTERIOR STAIRS AND STEEL-FRAMED STAIRS BY OTHERS.
- 12. TYPICAL DETAILS:
- 1/SD-1 TYP STEMWALL
- 2/SD-1 TYP INTERIOR FOOTING
- 3/SD-1 TYP CRAWLSPACE VENT
 4/SD-1 TYP FOOTING STEP
- 4/SD-1 TYP FOOTING STEP
 5/SD-1 TYP CORNER BARS REQ'T
- 5/SD-1 TYP CORNER BARS REQ 1
 7/SD-1 TYP CONSTRUCTION JOINT
- 8/SD-1 TYP BAR BEND AND HOOK DETAIL
- 9/SD-1 TYP STHD HOLDOWN INSTALLATION
- 10/SD-1 TYP STHD HOLDOWN SECTION
- 11/SD-1 TYP HOLDOWN INSTALLATION
- 12/SD-1 TYP PONY WALL DETAIL

HOLDOWN SCHEDULE					
MODEL	ANCHOR	EMBEDMENT	MIN END POST		
CS16/CS14	-	-	1-2X EA		
MST#	-	-	2-2X OR 3X		
STHD14/STHD14RJ	-	-	2-2X OR 3X		
HDU2	5/8" TR	12"	2-2X OR 3X		
HDU5	5/8" TR	12"	2-2X		
HDU8	7/8" TR	12"	3-2X		
HDU11	1" TR	12"	6X6		
HDU14	1" TR	15"	6X6		
HD19	1 1/4" TR	15"	6X6		

FOUNDATION LEGEND

- INDICATES STEP AT T/FOUNDATION
- INDICATES STEP AT T/FOUNDATION

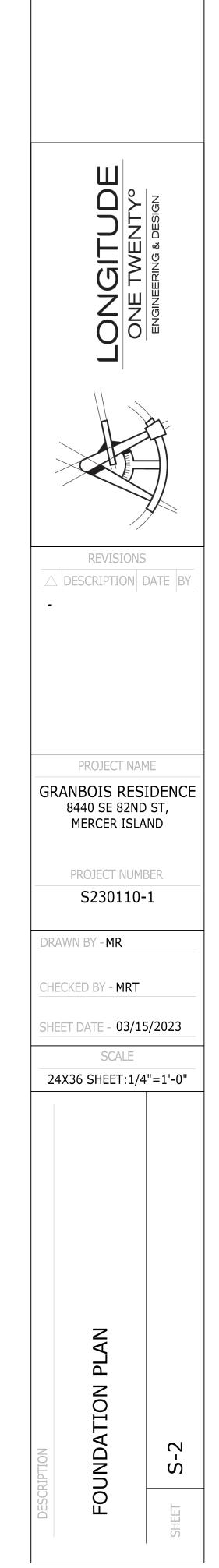
TANK WALL (TOP OF WALL NOT TO

INDICATES STEP AT B/FOUNDATION

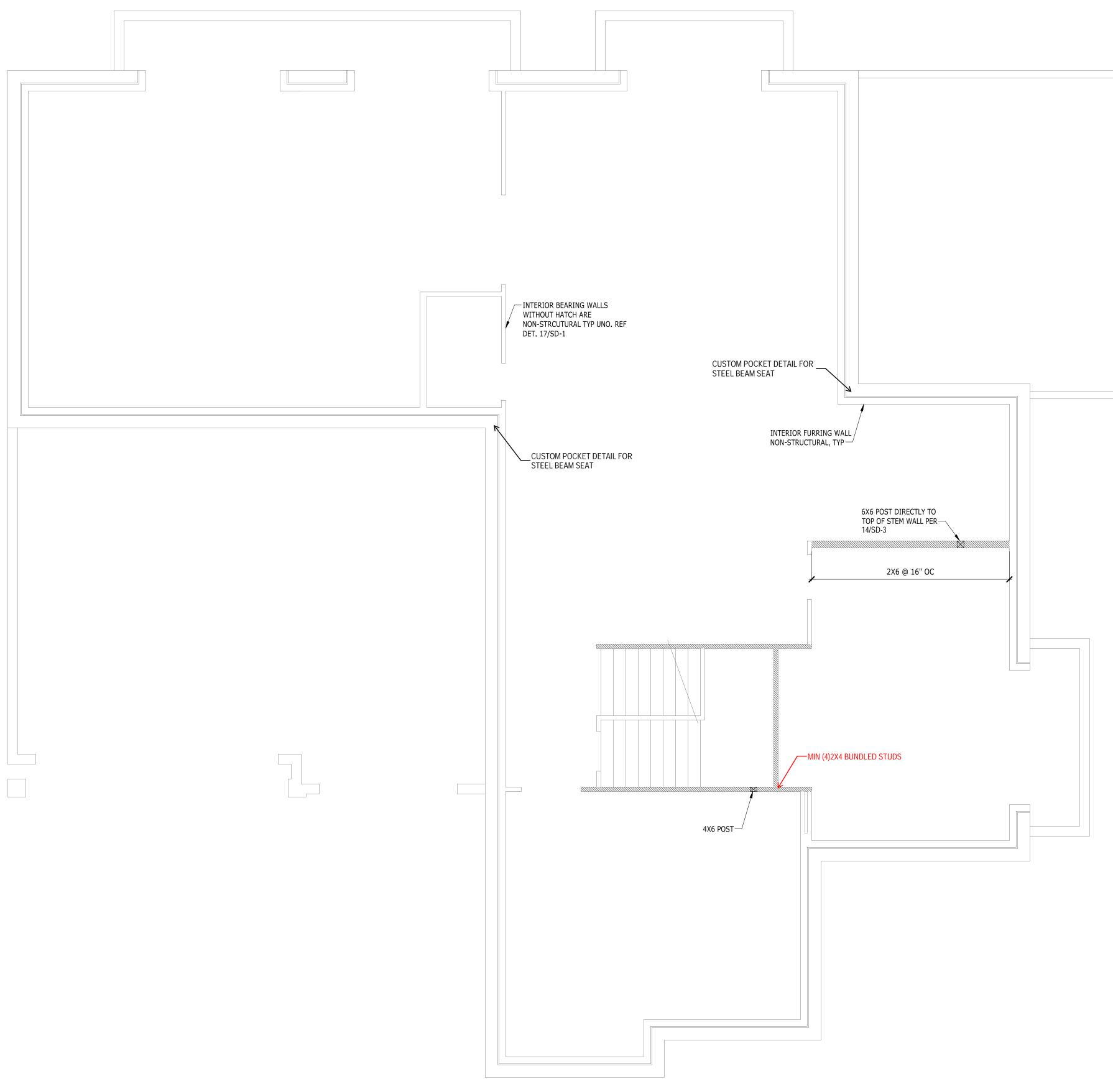
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- ELANDIA -
- STEP WITHIN HATCHED REGION) HOLDOWN BY SIMPSON (STHD/HDU/HD/HTT, TYP)
- FOOTING CENTERED ON POST (L X W X T)





FOOTING CE



BASEMENT WALL FRAMING AND SHEAR WALL PLAN

SHEAR WALL SCHEDULE

		PANEL EDGE NAILING	PANEL			RIM CONNECTION	
WALL	SHEATHING	(COMMON (GALV) NAILS)	EDGE STUDS	ANCHOR BOLTS 5/8"Ø EMBED 7"	AT MUD SILL/ PLATE	AT ROOF EAVE TOP PLATE	AT SILL PLATE (SINKER NAIL .148Ø x 3 1/4")
SW6	7/16" APA PLY ONE SIDE	8d AT 6" O.C.	2x	48" O.C. IN 2x PLATE	LTP4 AT 24" O.C.	RBC AT 16" O.C.	16d AT 6" O.C.
SW4	7/16" APA PLY ONE SIDE	8d AT 4" O.C.	2x	32" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 12" O.C.	16d AT 4" O.C.
SW3	7/16" APA PLY ONE SIDE	8d AT 3" O.C.	3x	16" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 8" O.C.	16d AT 3" O.C.
SW2	7/16" APA PLY ONE SIDE	8d AT 2" O.C.	3x	12" O.C. IN 2x PLATE	LTP4 AT 12" O.C.	RBC AT 8" O.C.	16d AT 2" O.C.
2W4	7/16" APA PLY TWO SIDES	8d AT 4" O.C. EA SIDE	3x	24" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 4" O.C.
2W3	7/16" APA PLY TWO SIDES	8d AT 3" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 3" O.C.
2W2	7/16" APA PLY TWO SIDES	8d AT 2" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 12" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 2" O.C.

NOTES: 1) FOR NON-SHEAR WALL, PROVIDE ANCHOR BOLTS @ 72" O.C.

WALL FRAMING AND SHEAR WALL NOTES

- 1. GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- 2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- 3. LUMBER GRADE PER GENERAL STRUCTURAL NOTES. 4. ALL BUNDLED STUDS SPECIFIED PER PLAN SHALL BE CONNECTED
- TOGETHER WITH 16d @ 6"O.C.
- 5. EXTERIOR WALL STUDS SHALL BE 2X6 @ 16"O.C. (≤10'), 2X6 @ 12"O.C. (>10') UNO. INTERIOR WALL STUDS SHALL BE 2X4 @ 16"O.C. UNO. REFER TO ARCH SET FOR WALL THICKNESS REQUIREMENTS AT PLUMBING STACKS. ALL INTERIOR NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- 6. PROVIDE ONE KING STUD AND ONE JACK STUD MINIMUM AT EVERY HEADER UNO. JACK STUDS SHOULD BE CONTINUOUS TO THE FOUNDATION AND SHALL HAVE VERTICAL CRUSH BLOCKING WITHIN THE FLOOR FRAMING DEPTH MATCHING THE WIDTH OF JACK STUDS.
- 7. SHEARWALL SHEATHING AND NAILING REQUIREMENTS PER SHEARWALL SCHEDULE. ALL EXTERIOR WALLS SHALL BE TYPE SW6 UNO.
- 8. ALL SHEATHING PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING. PANEL EDGE NAILING PER SHEARWALL SCHEDULE, FIELD NAILING AT 12" O.C. UNO.
- 9. PROVIDE MIN TWO 2X STUDS AT EACH END OF SHEARWALL UNO. PROVIDE PANEL EDGE NAILING INTO EACH STUD AT END OF WALL.
- 10. SHEARWALL PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES. TWO 2X STUDS ARE AN ACCEPTABLE ALTERNATE FOR 3X STUDS. TWO 2X STUDS ARE TO BE NAILED TOGETHER WITH TWO ROWS 10d NAILS AT 6" O.C (4" O.C. @ SW2 AND 2W2). AT DOUBLE SIDED SHEARWALLS VERTICAL PANEL EDGES TO BE STAGGERED ON OPPOSITE SIDES OF THE WALL EXCEPT END OF SHEARWALL.
- 11. LTP4 INSTALLED OVER PLYWOOD SHALL USE 8d COMMON NAILS (.131Ø X 2.5") LTP4 INSTALLED DIRECTLY AGAINST FRAMING MAY USE 8d SHORT (.131X 1.5") RBC INSTALLED DIRECTLY AGAINST FRAMING USE 10d SHORT (.148X 1.5").
- 12. WINDOW STRAP INDICATES THAT A WINDOW IS INCORPORATED WITHIN THE SHEAR WALL. REFER TO FORCE-TRANSFER AROUND OPENING DETAIL FOR FRAMING REQUIREMENTS.
- 13. STHD HOLDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD HOLDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- 14. SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36KSI) HDG, ASTM A307 (36KSI) HDG OR SIM. ANCHOR BOLTS TO BE 5/8"Ø X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX). EACH ANCHOR BOLT TO HAVE STANDARD HDG NUT AND WASHER INSTALLED OVER 3"X3"X1/4" HDG PLATE WASHER WITH AND EDGE OF THE PLATE WASHER LOCATED WITHIN 1/2" OF SHEATHED FACE OF WALL. FOR TWO-SIDED SHEARWALLS W/ 2X6 WALL FRAMING USE 4X4X1/4" PLATE WASHERS OR STAGGER ANCHOR BOLTS SO THAT EVERY OTHER PLATE WASHER IS LOCATED WITHIN 1/2" OF EACH FACE OF THE WALL.
- 15. ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- 16. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- 17. TYPICAL DETAILS:
 - 9/SD-1 TYP STHD HOLDOWN INSTALLATION
 - 10/SD-1 TYP STHD HOLDOWN SECTION
 - 11/SD-1 TYP HOLDOWN INSTALLATION
 - 12/SD-1 TYP PONY WALL DETAIL
 - 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
 - 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
 - 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
 - 17/SD-1 TYP NON-BEARING WALL FRAMING
 - 20/SD-1 TYP TOP PLATE SPLICE
 - 1/SD-2 TYP NOTCHES AND HOLES IN WOOD STUDS
 - 2/SD-2 FORCE-TRANSFER AROUND WINDOWS DETAIL • 3/SD-2 TYP HEADER FRAMING

FRAMING AND SHEATHING LEGEND

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$\langle \nabla \rangle \langle \nabla \rangle$	
1+XX	,

+91,750, - HOLDOWN BY SIMPSON (STHD/MST/HDU/HD, TYP)

INTERIOR BEARING WALL

#K - INDICATES THE NUMBER OF KING AND JACK STUDS #]

- - - INDICATES SHEARWALL LOCATION (SW# - SHEAR WALL MARK) CS16 - HORIZONTAL STRAP (EXAMPLE)

- HEADER

SW6 (A.1) - SHEAR WALL CALLOUT REFERENCE TO WALL DESIGNATION IN THE CALCULATION PACKAGE - REFERENCE TO SHEAR WALL TYPE PER SHEAR WALL SCHEDULE 3 1/8" X 9" GLB (FH-5) - EXAMPLE

REFERENCE TO BEAM OR TRUSS CALCULATION IN
CALCULATION PACKAGE
BEAM OR TRUSS MEMBER



PROJECT NAME

GRANBOIS RESIDENCE 8440 SE 82ND ST, MERCER ISLAND

PROJECT NUMBER

S230110-1

DRAWN BY - MR

CHECKED BY - MRT

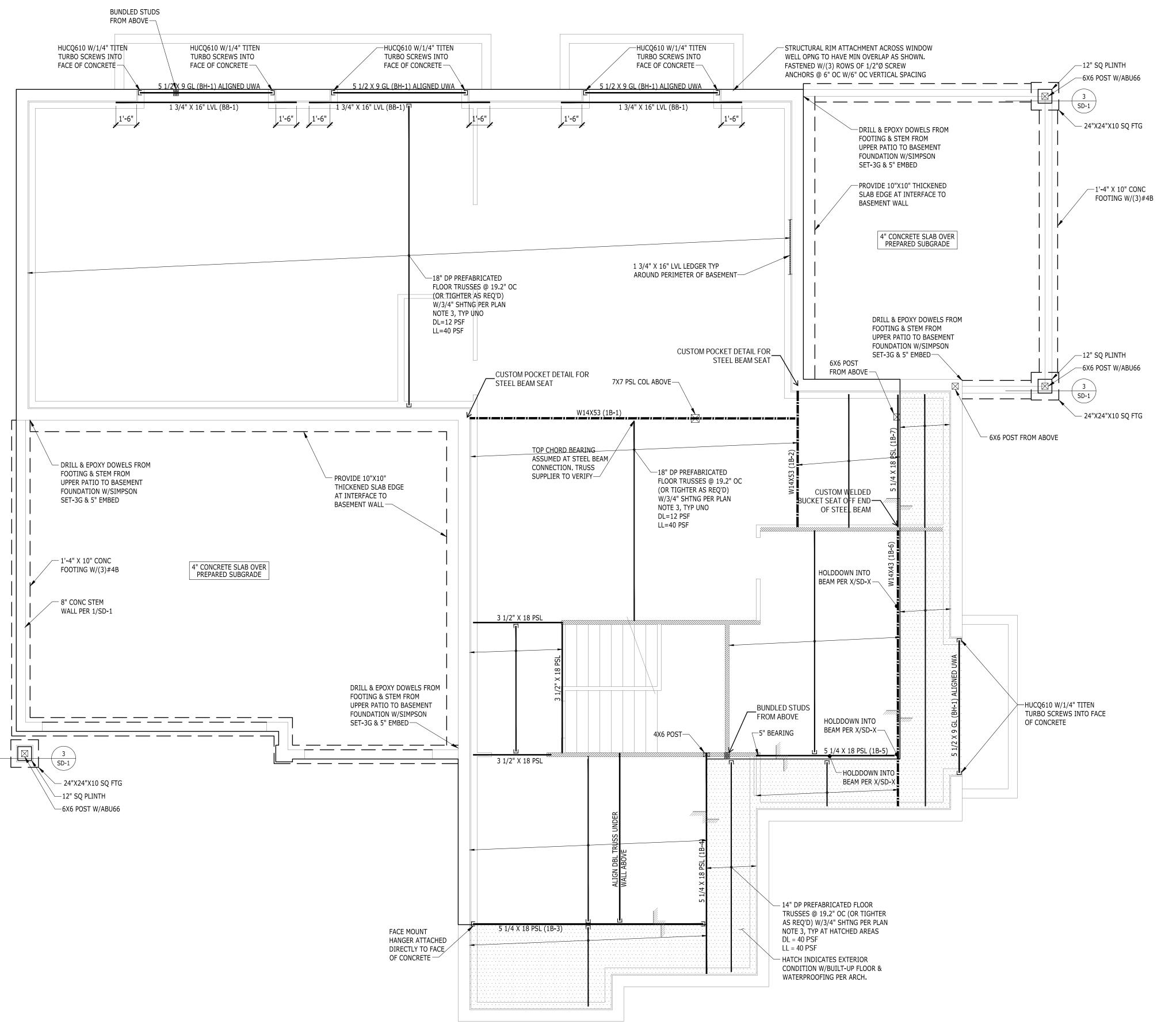
SHEET DATE - 03/15/2023

SCALE

24X36 SHEET:1/4"=1'-0"

BASEMENT WALL FRAMING AND SHEAR WALL PLAN

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FIRST FLOOR FRAMING PLAN

FLOOR FRAMING NOTES

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REVISIONS

DESCRIPTION DATE BY

PROJECT NAME

GRANBOIS RESIDENCE

8440 SE 82ND ST,

MERCER ISLAND

PROJECT NUMBER

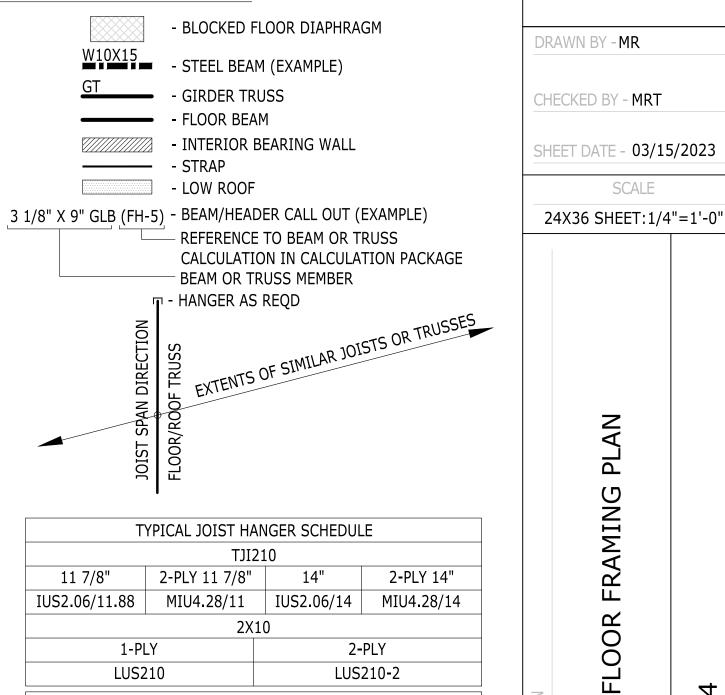
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- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- 2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- FLOOR SHEATHING PER GENERAL NOTES. ALL SHEATHING TO BE GLUED AND NAILED TO FRAMING PER MANUFACTURER RECOMMENDATIONS. USE 8d COMMON NAILS (0.131" X 2 1/2") @ 6" O.C. AT PANEL EDGES AND AT ALL FRAMING DESIGNATED "WITH EDGE NAILING" OR "W/EN", AND 12" O.C. IN THE FIELD, UNO. PANEL EDGE JOINTS TO BE STAGGERED BETWEEN ADJACENT PANELS OF SHEATHING. PROVIDE GAP BETWEEN PANELS TO ALLOW FOR NATURAL EXPANSION/CONTRACTION (1/8" GAP TYP).
- 4. LOCATE ALL OPENINGS AND PENETRATIONS AND VERIFY NO CONFLICT WITH FLOOR FRAMING. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS BY OTHERS.
- 5. ALL WOOD LOCATED WITHIN 8" OF FINISHED GRADE, EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL FASTENERS IN CONTACT WITH FIRE-RETARDANT OR PRESSURE-TREATED WOOD SHALL BE COVERED IN PROTECTIVE COATING (I.E. HDG OR SIM)
- 6. ALL BEAMS SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/BEAM EQUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/BEAM EQUAL T/JOISTS AND B/BEAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/BEAM EQUAL B/JOISTS AND T/BEAM EXTENDING ABOVE T/JOISTS.
- 7. ALL NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- 8. STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN BELOW.
- 9. ALL POSTS ABOVE THE FLOOR FRAMING SHALL BE BLOCKED WITHIN THE FLOOR DEPTH ("VERTICAL GRAIN BLKG", "VERTICAL CRUSH BLKG", OR "VCB"). BLOCKING WIDTH SHALL MATCH WIDTH OF POST OR BUNDLED STUDS ABOVE AND EXTEND FULL FLOOR DEPTH.
- 10. HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE, BEAM, OR BLOCKING. STRAP LENGTH PER PLAN.
- 11. ALL TIES AND HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- 12. ENGINEERED FLOOR JOISTS AND FLOOR TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- 13. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- 14. TYPICAL DETAILS:
- 13/SD-1 TYP DROPPED BEAM AT CUT PLATES
- 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
- 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
- 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
- 17/SD-1 TYP NON-LOAD BEARING WALL FRAMING
- 18/SD-1 TYP FRAMING AT INTERIOR BEARING WALL 19/SD-1 TYP FRAMING AT INTERIOR FLUSH BEAM

FRAMING LEGEND



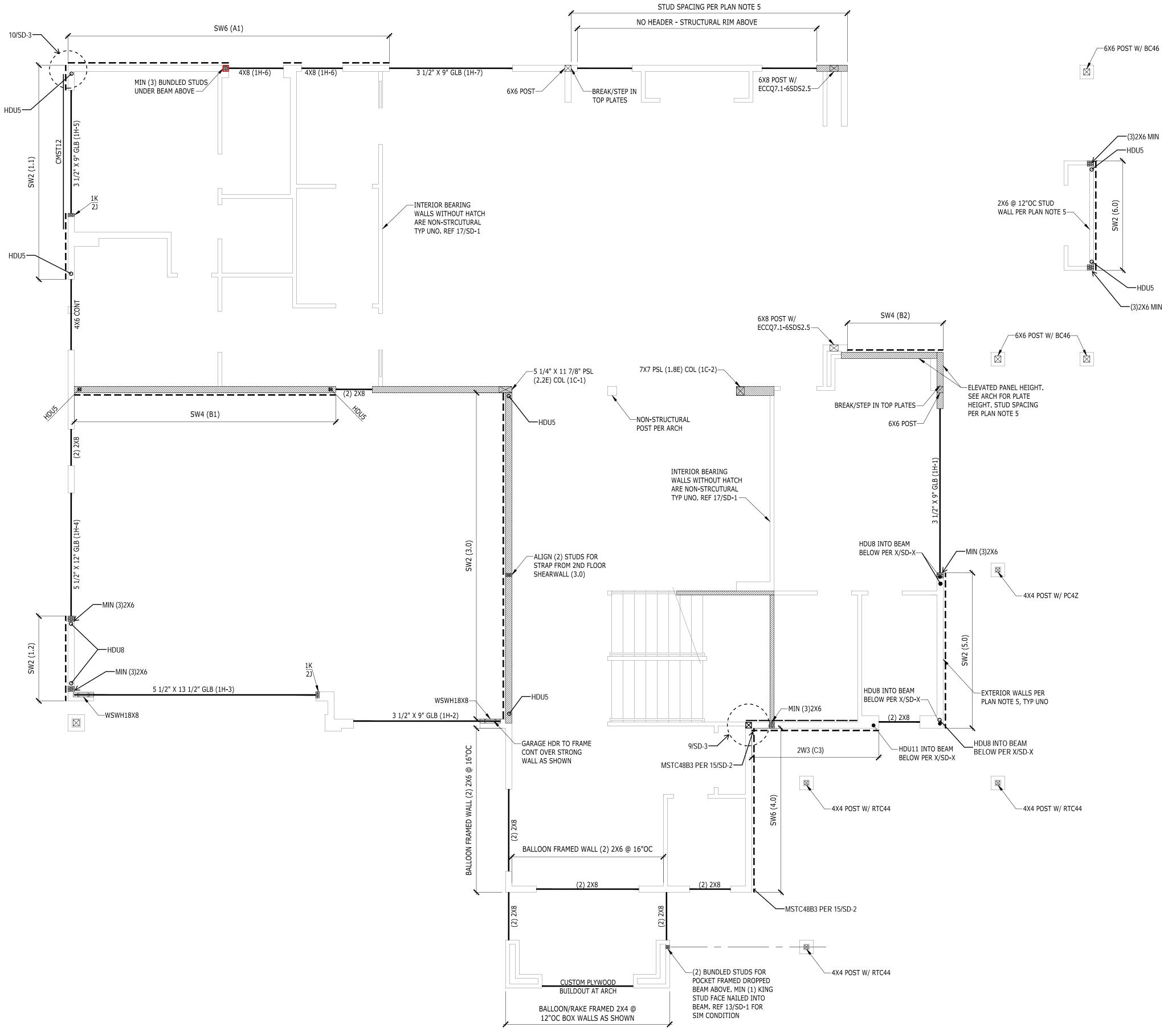
7"

TYPICAL BEAM HANGER SCHEDULE

LVL / LSL / PSL

11 7/8" | HUS1.81/10 | HHUS410 | HGUS5.50/12 | HGUS7.25/12 | 14" HUS1.81/10 HHUS410 HGUS5.50/14 HGUS7.25/14

1 3/4" 3 1/2" 5 1/4"



FIRST FLOOR WALL FRAMING AND SHEAR WALL PLAN

SHEAR WALL SCHEDULE

	SHEATHING PANEL EDGE NAILING PANEL (COMMON (GALV) NAILS) STUDS 5/8"Ø EMBED 7"	PANEL EDGE NAILING	PANEL		RIM CONNECTION		
WALL		AT MUD SILL/ PLATE	AT ROOF EAVE TOP PLATE	AT SILL PLATE (SINKER NAIL .148Ø x 3 1/4")			
SW6	7/16" APA PLY ONE SIDE	8d AT 6" O.C.	2x	48" O.C. IN 2x PLATE	LTP4 AT 24" O.C.	RBC AT 16" O.C.	16d AT 6" O.C.
SW4	7/16" APA PLY ONE SIDE	8d AT 4" O.C.	2x	32" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 12" O.C.	16d AT 4" O.C.
SW3	7/16" APA PLY ONE SIDE	8d AT 3" O.C.	3x	16" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 8" O.C.	16d AT 3" O.C.
SW2	7/16" APA PLY ONE SIDE	8d AT 2" O.C.	3x	12" O.C. IN 2x PLATE	LTP4 AT 12" O.C.	RBC AT 8" O.C.	16d AT 2" O.C.
2W4	7/16" APA PLY TWO SIDES	8d AT 4" O.C. EA SIDE	3x	24" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 4" O.C.
2W3	7/16" APA PLY TWO SIDES	8d AT 3" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 3" O.C.
2W2	7/16" APA PLY TWO SIDES	8d AT 2" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 12" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 2" O.C.

NOTES: 1) FOR NON-SHEAR WALL, PROVIDE ANCHOR BOLTS @ 72" O.C.

WALL FRAMING AND SHEAR WALL NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- 3. LUMBER GRADE PER GENERAL STRUCTURAL NOTES. 4. ALL BUNDLED STUDS SPECIFIED PER PLAN SHALL BE CONNECTED
- TOGETHER WITH 16d @ 6"O.C.
- 5. EXTERIOR WALL STUDS SHALL BE 2X6 @ 16"O.C. (≤10'), 2X6 @ 12"O.C. (>10') UNO. INTERIOR WALL STUDS SHALL BE 2X4 @ 16"O.C. UNO. REFER TO ARCH SET FOR WALL THICKNESS REQUIREMENTS AT PLUMBING STACKS. ALL INTERIOR NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- 6. PROVIDE ONE KING STUD AND ONE JACK STUD MINIMUM AT EVERY HEADER UNO. JACK STUDS SHOULD BE CONTINUOUS TO THE FOUNDATION AND SHALL HAVE VERTICAL CRUSH BLOCKING WITHIN THE FLOOR FRAMING DEPTH MATCHING THE WIDTH OF JACK STUDS.
- 7. SHEARWALL SHEATHING AND NAILING REQUIREMENTS PER SHEARWALL SCHEDULE. ALL EXTERIOR WALLS SHALL BE TYPE SW6 UNO.
- 8. ALL SHEATHING PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING. PANEL EDGE NAILING PER SHEARWALL SCHEDULE, FIELD NAILING AT 12" O.C. UNO.
- 9. PROVIDE MIN TWO 2X STUDS AT EACH END OF SHEARWALL UNO. PROVIDE PANEL EDGE NAILING INTO EACH STUD AT END OF WALL.
- 10. SHEARWALL PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES. TWO 2X STUDS ARE AN ACCEPTABLE ALTERNATE FOR 3X STUDS. TWO 2X STUDS ARE TO BE NAILED TOGETHER WITH TWO ROWS 10d NAILS AT 6" O.C (4" O.C. @ SW2 AND 2W2), AT DOUBLE SIDED SHEARWALLS VERTICAL PANEL EDGES TO BE STAGGERED ON OPPOSITE SIDES OF THE WALL EXCEPT END OF SHEARWALL.
- 11. LTP4 INSTALLED OVER PLYWOOD SHALL USE 8d COMMON NAILS (.131Ø X 2.5") LTP4 INSTALLED DIRECTLY AGAINST FRAMING MAY USE 8d SHORT (.131X 1.5") RBC INSTALLED DIRECTLY AGAINST FRAMING USE 10d SHORT (.148X 1.5").
- 12. WINDOW STRAP INDICATES THAT A WINDOW IS INCORPORATED WITHIN THE SHEAR WALL. REFER TO FORCE-TRANSFER AROUND OPENING DETAIL FOR FRAMING REQUIREMENTS.
- 13. STHD HOLDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD HOLDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- 14. SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36KSI) HDG, ASTM A307 (36KSI) HDG OR SIM. ANCHOR BOLTS TO BE 5/8"Ø X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX). EACH ANCHOR BOLT TO HAVE STANDARD HDG NUT AND WASHER INSTALLED OVER 3"X3"X1/4" HDG PLATE WASHER WITH AND EDGE OF THE PLATE WASHER LOCATED WITHIN 1/2" OF SHEATHED FACE OF WALL. FOR TWO-SIDED SHEARWALLS W/ 2X6 WALL FRAMING USE 4X4X1/4" PLATE WASHERS OR STAGGER ANCHOR BOLTS SO THAT EVERY OTHER PLATE WASHER IS LOCATED WITHIN 1/2" OF EACH FACE OF THE WALL.
- 15. ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- 16. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- 17. TYPICAL DETAILS:
- 9/SD-1 TYP STHD HOLDOWN INSTALLATION
- 10/SD-1 TYP STHD HOLDOWN SECTION
- 11/SD-1 TYP HOLDOWN INSTALLATION
- 12/SD-1 TYP PONY WALL DETAIL
- 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
- 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
- 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
- 17/SD-1 TYP NON-BEARING WALL FRAMING
- 20/SD-1 TYP TOP PLATE SPLICE
- 1/SD-2 TYP NOTCHES AND HOLES IN WOOD STUDS
- 2/SD-2 FORCE-TRANSFER AROUND WINDOWS DETAIL • 3/SD-2 TYP HEADER FRAMING

FRAMING AND SHEATHING LEGEND

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- HOLDOWN BY SIMPSON (STHD/MST/HDU/HD, TYP)

INTERIOR BEARING WALL

#K - INDICATES THE NUMBER OF KING AND JACK STUDS #]

- - - INDICATES SHEARWALL LOCATION (SW# - SHEAR WALL MARK) CS16 - HORIZONTAL STRAP (EXAMPLE)

- HEADER

SW6 (A.1) - SHEAR WALL CALLOUT - REFERENCE TO WALL DESIGNATION IN THE CALCULATION PACKAGE REFERENCE TO SHEAR WALL TYPE PER SHEAR WALL SCHEDULE 3 1/8" X 9" GLB (FH-5) - EXAMPLE

,	REFERENCE TO BEAM OR TRUSS CALCULATION IN
	CALCULATION PACKAGE
	BEAM OR TRUSS MEMBER



PROJECT NAME

GRANBOIS RESIDENCE 8440 SE 82ND ST, MERCER ISLAND

PROJECT NUMBER

S230110-1

DRAWN BY - MR

CHECKED BY - MRT

SHEET DATE - 03/15/2023

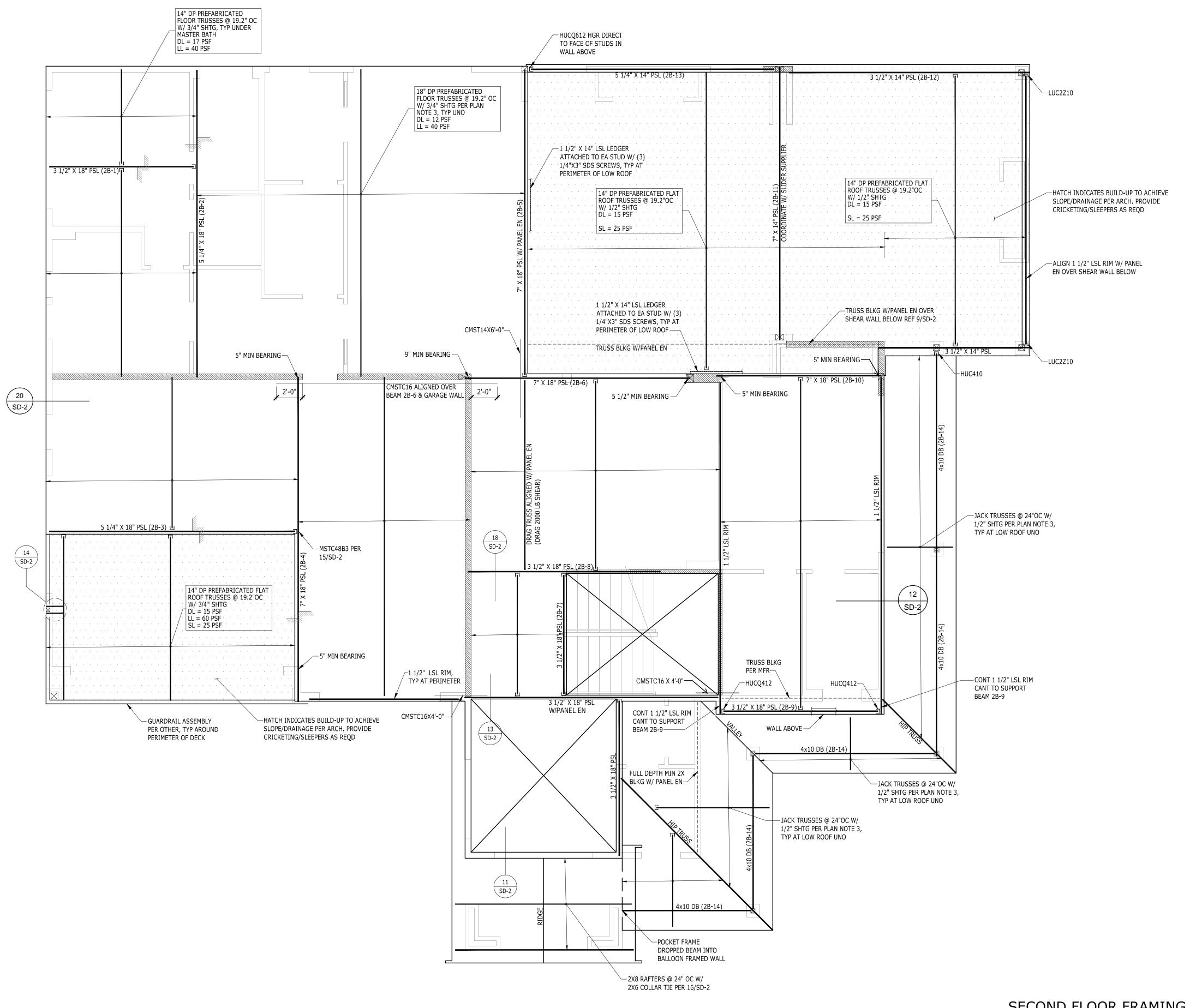
SCALE

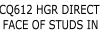
24X36 SHEET:1/4"=1'-0"

T FLOOR WALL FRAMING SHEAR WALL PLAN

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SECOND FLOOR FRAMING PLAN

FLOOR FRAMING NOTES

GR.THURE

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REVISIONS

DESCRIPTION DATE BY

PROJECT NAME

GRANBOIS RESIDENCE

8440 SE 82ND ST,

MERCER ISLAND

PROJECT NUMBER

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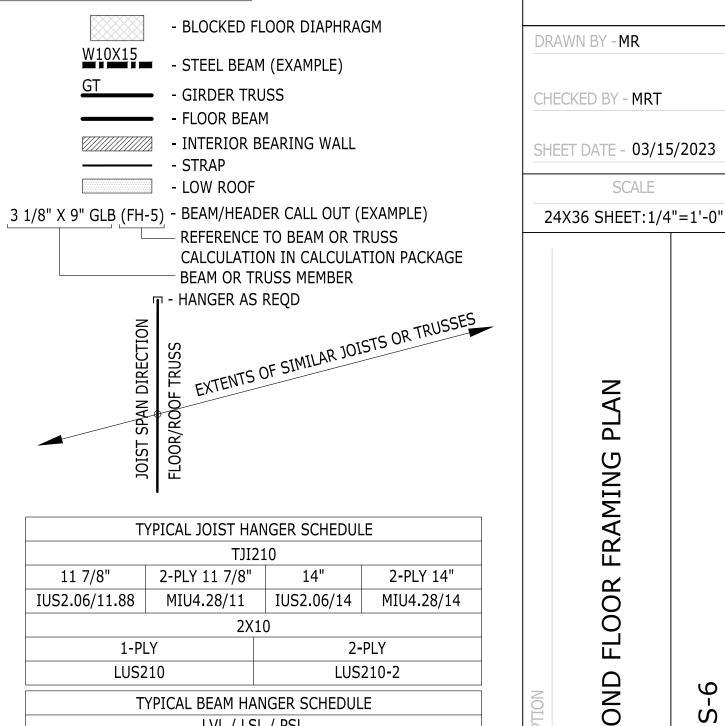
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- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- 2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- FLOOR SHEATHING PER GENERAL NOTES. ALL SHEATHING TO BE GLUED AND NAILED TO FRAMING PER MANUFACTURER RECOMMENDATIONS. USE 8d COMMON NAILS (0.131" X 2 1/2") @ 6" O.C. AT PANEL EDGES AND AT ALL FRAMING DESIGNATED "WITH EDGE NAILING" OR "W/EN", AND 12" O.C. IN THE FIELD, UNO. PANEL EDGE JOINTS TO BE STAGGERED BETWEEN ADJACENT PANELS OF SHEATHING. PROVIDE GAP BETWEEN PANELS TO ALLOW FOR NATURAL EXPANSION/CONTRACTION (1/8" GAP TYP).
- 4. LOCATE ALL OPENINGS AND PENETRATIONS AND VERIFY NO CONFLICT WITH FLOOR FRAMING. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS BY OTHERS.
- 5. ALL WOOD LOCATED WITHIN 8" OF FINISHED GRADE, EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL FASTENERS IN CONTACT WITH FIRE-RETARDANT OR PRESSURE-TREATED WOOD SHALL BE COVERED IN PROTECTIVE COATING (I.E. HDG OR SIM)
- 6. ALL BEAMS SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/BEAM EOUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/BEAM EQUAL T/JOISTS AND B/BEAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/BEAM EQUAL B/JOISTS AND T/BEAM EXTENDING ABOVE T/JOISTS.
- 7. ALL NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- 8. STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN BELOW.
- 9. ALL POSTS ABOVE THE FLOOR FRAMING SHALL BE BLOCKED WITHIN THE FLOOR DEPTH ("VERTICAL GRAIN BLKG", "VERTICAL CRUSH BLKG", OR "VCB"). BLOCKING WIDTH SHALL MATCH WIDTH OF POST OR BUNDLED STUDS ABOVE AND EXTEND FULL FLOOR DEPTH.
- 10. HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE, BEAM, OR BLOCKING. STRAP LENGTH PER PLAN.
- 11. ALL TIES AND HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- 12. ENGINEERED FLOOR JOISTS AND FLOOR TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- 13. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- 14. TYPICAL DETAILS:
- 13/SD-1 TYP DROPPED BEAM AT CUT PLATES
- 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
- 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
- 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
- 17/SD-1 TYP NON-LOAD BEARING WALL FRAMING
- 18/SD-1 TYP FRAMING AT INTERIOR BEARING WALL • 19/SD-1 TYP FRAMING AT INTERIOR FLUSH BEAM

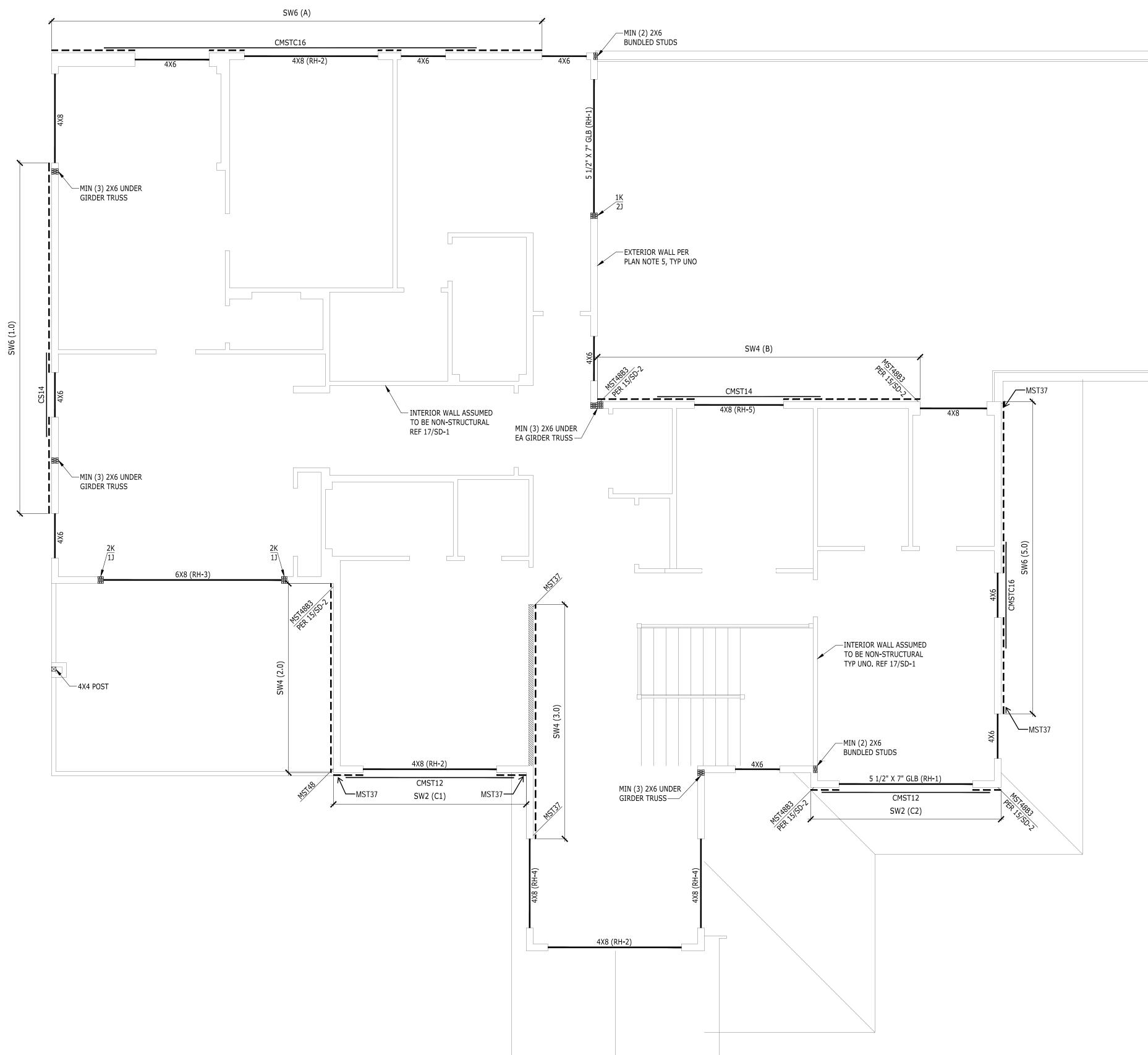
FRAMING LEGEND



7"

LVL / LSL / PSL 1 3/4" 3 1/2" 5 1/4"

11 7/8" | HUS1.81/10 | HHUS410 | HGUS5.50/12 | HGUS7.25/12 | 14" HUS1.81/10 HHUS410 HGUS5.50/14 HGUS7.25/14



SECOND FLOOR WALL FRAMING AND SHEAR WALL PLAN

SHEAR WALL SCHEDULE

		PANEL EDGE NAILING	PANEL		RIM CONNECTION		
WALL	SHEATHING	(COMMON (GALV) NAILS)	EDGE STUDS		AT MUD SILL/ PLATE	AT ROOF EAVE TOP PLATE	AT SILL PLATE (SINKER NAIL .148Ø x 3 1/4")
SW6	7/16" APA PLY ONE SIDE	8d AT 6" O.C.	2x	48" O.C. IN 2x PLATE	LTP4 AT 24" O.C.	RBC AT 16" O.C.	16d AT 6" O.C.
SW4	7/16" APA PLY ONE SIDE	8d AT 4" O.C.	2x	32" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 12" O.C.	16d AT 4" O.C.
SW3	7/16" APA PLY ONE SIDE	8d AT 3" O.C.	3x	16" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 8" O.C.	16d AT 3" O.C.
SW2	7/16" APA PLY ONE SIDE	8d AT 2" O.C.	3x	12" O.C. IN 2x PLATE	LTP4 AT 12" O.C.	RBC AT 8" O.C.	16d AT 2" O.C.
2W4	7/16" APA PLY TWO SIDES	8d AT 4" O.C. EA SIDE	3x	24" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 4" O.C.
2W3	7/16" APA PLY TWO SIDES	8d AT 3" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 3" O.C.
2W2	7/16" APA PLY TWO SIDES	8d AT 2" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 12" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 2" O.C.

NOTES: 1) FOR NON-SHEAR WALL, PROVIDE ANCHOR BOLTS @ 72" O.C.

WALL FRAMING AND SHEAR WALL NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- 3. LUMBER GRADE PER GENERAL STRUCTURAL NOTES. 4. ALL BUNDLED STUDS SPECIFIED PER PLAN SHALL BE CONNECTED
- TOGETHER WITH 16d @ 6"O.C.
- 5. EXTERIOR WALL STUDS SHALL BE 2X6 @ 16"O.C. (≤10'), 2X6 @ 12"O.C. (>10') UNO. INTERIOR WALL STUDS SHALL BE 2X4 @ 16"O.C. UNO. REFER TO ARCH SET FOR WALL THICKNESS REQUIREMENTS AT PLUMBING STACKS. ALL INTERIOR NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- 6. PROVIDE ONE KING STUD AND ONE JACK STUD MINIMUM AT EVERY HEADER UNO. JACK STUDS SHOULD BE CONTINUOUS TO THE FOUNDATION AND SHALL HAVE VERTICAL CRUSH BLOCKING WITHIN THE FLOOR FRAMING DEPTH MATCHING THE WIDTH OF JACK STUDS.
- 7. SHEARWALL SHEATHING AND NAILING REQUIREMENTS PER SHEARWALL SCHEDULE. ALL EXTERIOR WALLS SHALL BE TYPE SW6 UNO.
- 8. ALL SHEATHING PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING. PANEL EDGE NAILING PER SHEARWALL SCHEDULE, FIELD NAILING AT 12" O.C. UNO.
- 9. PROVIDE MIN TWO 2X STUDS AT EACH END OF SHEARWALL UNO. PROVIDE PANEL EDGE NAILING INTO EACH STUD AT END OF WALL.
- 10. SHEARWALL PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES. TWO 2X STUDS ARE AN ACCEPTABLE ALTERNATE FOR 3X STUDS. TWO 2X STUDS ARE TO BE NAILED TOGETHER WITH TWO ROWS 10d NAILS AT 6" O.C (4" O.C. @ SW2 AND 2W2). AT DOUBLE SIDED SHEARWALLS VERTICAL PANEL EDGES TO BE STAGGERED ON OPPOSITE SIDES OF THE WALL EXCEPT END OF SHEARWALL.
- 11. LTP4 INSTALLED OVER PLYWOOD SHALL USE 8d COMMON NAILS (.131Ø X 2.5") LTP4 INSTALLED DIRECTLY AGAINST FRAMING MAY USE 8d SHORT (.131X 1.5") RBC INSTALLED DIRECTLY AGAINST FRAMING USE 10d SHORT (.148X 1.5").
- 12. WINDOW STRAP INDICATES THAT A WINDOW IS INCORPORATED WITHIN THE SHEAR WALL. REFER TO FORCE-TRANSFER AROUND OPENING DETAIL FOR FRAMING REQUIREMENTS.
- 13. STHD HOLDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD HOLDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- 14. SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36KSI) HDG, ASTM A307 (36KSI) HDG OR SIM. ANCHOR BOLTS TO BE 5/8"Ø X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX). EACH ANCHOR BOLT TO HAVE STANDARD HDG NUT AND WASHER INSTALLED OVER 3"X3"X1/4" HDG PLATE WASHER WITH AND EDGE OF THE PLATE WASHER LOCATED WITHIN 1/2" OF SHEATHED FACE OF WALL. FOR TWO-SIDED SHEARWALLS W/ 2X6 WALL FRAMING USE 4X4X1/4" PLATE WASHERS OR STAGGER ANCHOR BOLTS SO THAT EVERY OTHER PLATE WASHER IS LOCATED WITHIN 1/2" OF EACH FACE OF THE WALL.
- 15. ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- 16. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- 17. TYPICAL DETAILS:
- 9/SD-1 TYP STHD HOLDOWN INSTALLATION
- 10/SD-1 TYP STHD HOLDOWN SECTION
- 11/SD-1 TYP HOLDOWN INSTALLATION
- 12/SD-1 TYP PONY WALL DETAIL
- 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
- 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
- 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
- 17/SD-1 TYP NON-BEARING WALL FRAMING
- 20/SD-1 TYP TOP PLATE SPLICE
- 1/SD-2 TYP NOTCHES AND HOLES IN WOOD STUDS
- 2/SD-2 FORCE-TRANSFER AROUND WINDOWS DETAIL • 3/SD-2 TYP HEADER FRAMING

FRAMING AND SHEATHING LEGEND

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- HOLDOWN BY SIMPSON (STHD/MST/HDU/HD. TYP)

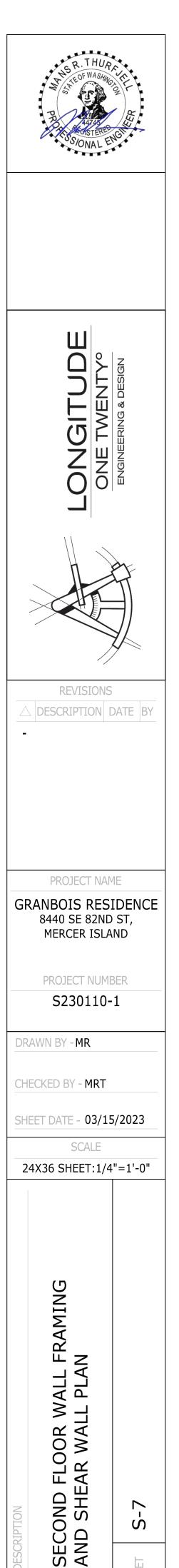
INTERIOR BEARING WALL

#K - INDICATES THE NUMBER OF KING AND JACK STUDS #]

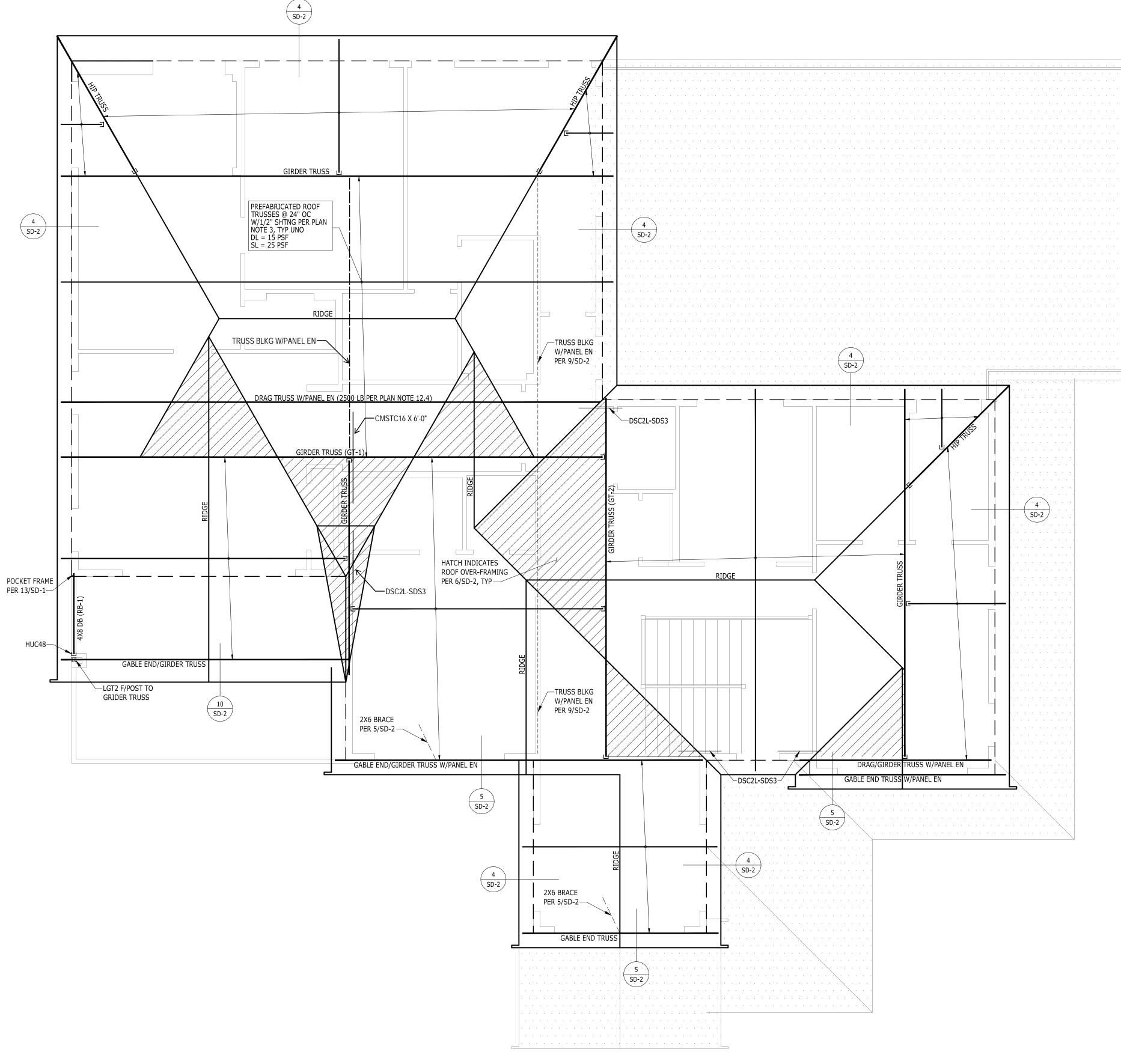
- - - INDICATES SHEARWALL LOCATION (SW# - SHEAR WALL MARK)

- CS16 HORIZONTAL STRAP (EXAMPLE)
- HEADER
- SW6 (A.1) SHEAR WALL CALLOUT
- REFERENCE TO WALL DESIGNATION IN THE CALCULATION PACKAGE REFERENCE TO SHEAR WALL TYPE PER SHEAR WALL SCHEDULE 3 1/8" X 9" GLB (FH-5) - EXAMPLE

51/0 /		
	REFERENCE TO BEAM OR TRUSS CALCULATION IN	
	CALCULATION PACKAGE	
	BEAM OR TRUSS MEMBER	



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ROOF FRAMING PLAN

ROOF FRAMING NOTES

- 1. GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- 2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- ROOF SHEATHING PER GENERAL NOTES. ALL SHEATHING TO BE GLUED AND NAILED TO FRAMING PER MANUFACTURER RECOMMENDATIONS. USE 8d COMMON NAILS (0.131" X 2 1/2") @ 6" O.C. AT PANEL EDGES AND AT ALL FRAMING DESIGNATED "WITH EDGE NAILING" OR "W/EN", AND 12" O.C. IN THE FIELD, UNO. PANEL EDGE JOINTS TO BE STAGGERED BETWEEN ADJACENT PANELS OF SHEATHING. PROVIDE GAP BETWEEN PANELS TO ALLOW FOR NATURAL EXPANSION/CONTRACTION (1/8" GAP TYP).
- 4. ALL ROOF TRUSSES SHALL BE SPACED NO FURTHER APART THAN 24" O.C. AND SHALL BE CONNECTED TO TOP PLATE WITH H2.5 TIE UNO.
- 5. ALL GIRDER TRUSSES SHALL BE CONNECTED TO TOP PLATE WITH TWO H6 TIES UNO.
- 6. LOCATE ALL OPENINGS AND PENETRATIONS AND VERIFY NO CONFLICT WITH ROOF FRAMING. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS BY OTHERS.
- 7. ALL BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/BEAM EQUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/BEAM EQUAL T/JOISTS AND B/BEAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/BEAM EQUAL B/JOISTS AND T/BEAM EXTENDING ABOVE T/JOISTS.
- 8. ALL NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL 9. REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN BELOW.
- 10. HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE, BEAM, OR BLOCKING. STRAP LENGTH PER PLAN UNO.
- 11. ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS. HANGERS FOR ROOF TRUSSES BY OTHERS.
- 12. ENGINEERED ROOF JOISTS AND ROOF TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- 12.1. STANDARD DEAD AND LIVE LOADS SHALL BE USED FOR TRUSS DESIGN. REFERENCE STRUCTURAL GENERAL NOTES FOR MORE INFORMATION.
- 12.2. CHANGES TO LAYOUT MUST BE SUBMITTED TO THE ARCHITECT AND EOR FOR REVIEW AND APPROVAL.
- 12.3. TRUSS SUBMITTAL PACKAGE TO BE PROVIDED TO EOR FOR REVIEW. REFERENCE STRUCTURAL GENERAL NOTES FOR SUBMITTAL REQUIREMENTS.
- 12.4. (XXX LBS SHEAR/DRAG) INDICATES SHEAR TRANSFER LOAD. SHEAR TRUSS SHALL BE DESIGNED TO BE ABLE TO TRANSFER SPECIFIED LATERAL LOAD APPLIED AT THE TOP CHORD TO THE BOTTOM CHORD AND INTO SHEARWALL BELOW.
- 12.5. ROOF TRUSSES SHOULD BE DESIGNED FOR ADDITIONAL LOADS WHERE APPLICABLE AS SPECIFIED BY THE ARCHITECT (I.E. MECHANICAL UNITS, ROOF DECKS AND PATIOS, GREEN ROOFS, SOLAR UNITS AND ETC).
- 12.6. TRUSS DESIGN FOR BEARING AT TOP PLATES TO BE DESIGNED FOR COMPRESSION PERPENDICULAR TO GRAIN. 13. FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY
- OTHERS. 14. ROOF COVERINGS AND ROOFING MATERIAL BY OTHERS.
- 15. ROOF DRAINAGE BY OTHERS.
- 16. ATTIC VENTILATION BY OTHERS.
- 17. FOR TYPICAL INSTALLATION DETAILS REFERENCE TO:
 - 13/SD-1 TYP DROPPED BEAM AT CUT PLATES • 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG
 - DRAG CONNECTION
 - 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
 - 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION • 17/SD-1 TYP NON-LOAD BEARING WALL FRAMING
 - 4/SD-2 TYP HIP ROOF FRAMING
 - 5/SD-2 TYP GABLE END ROOF FRAMING
 - 6/SD-2 TYP ROOF OVERFRAMING
 - 7/SD-2 TYP INTERIOR SHEAR TRUSS
 - 8/SD-2 TYP INTERIOR OFFSET SHEAR TRUSS
 - 9/SD-2 TYP TRUSS BLOCKING

FRAMING LEGEND

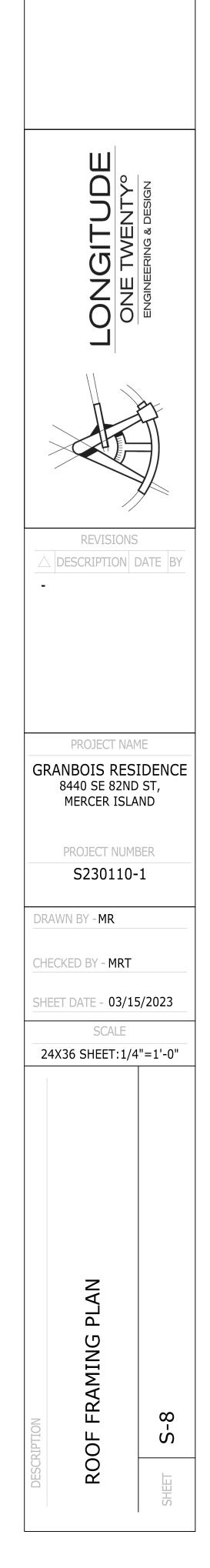
- GIRDER OR GABLE END TRUSS

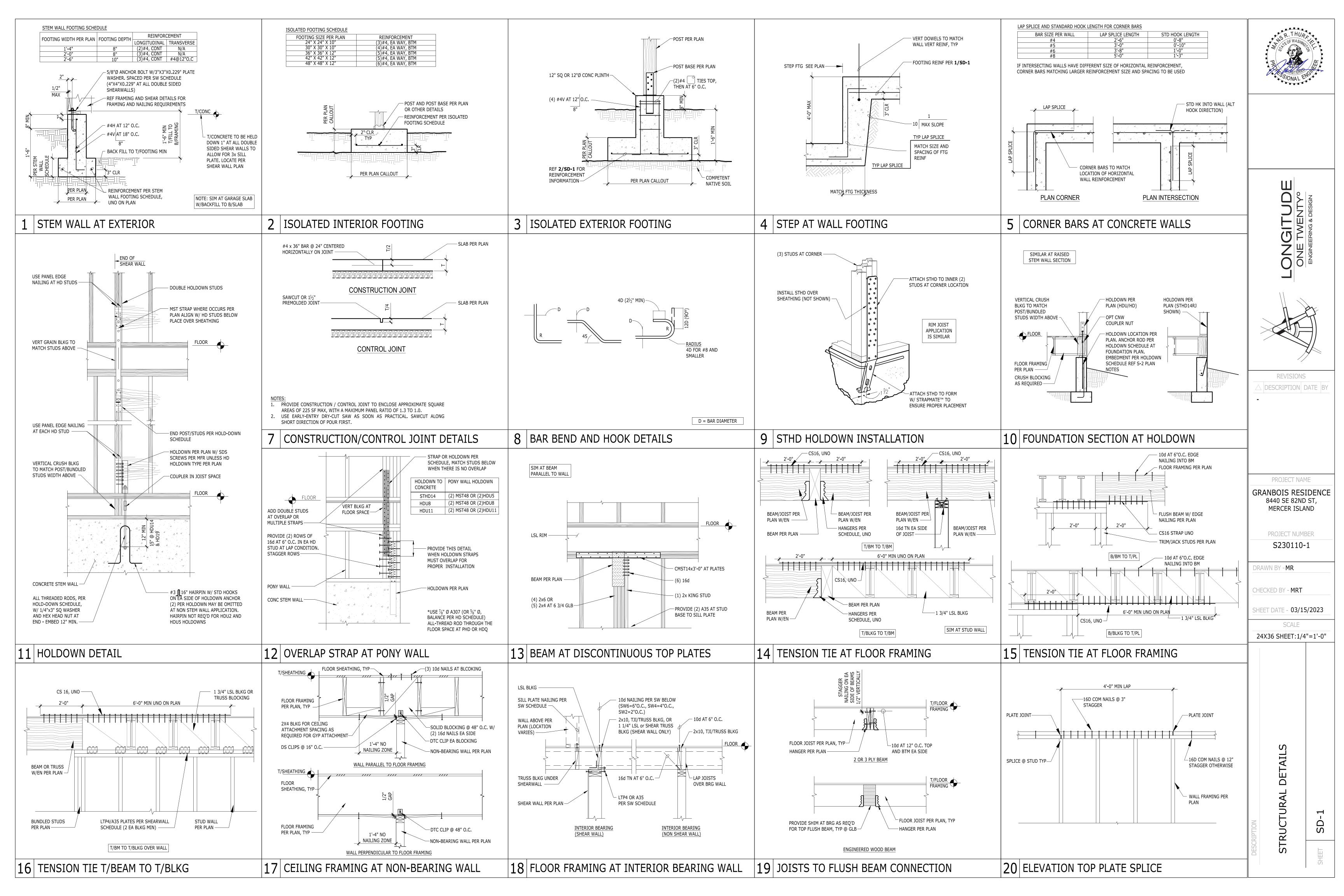
- INTERIOR BEARING WALL
- ROOF OVERFRAMING

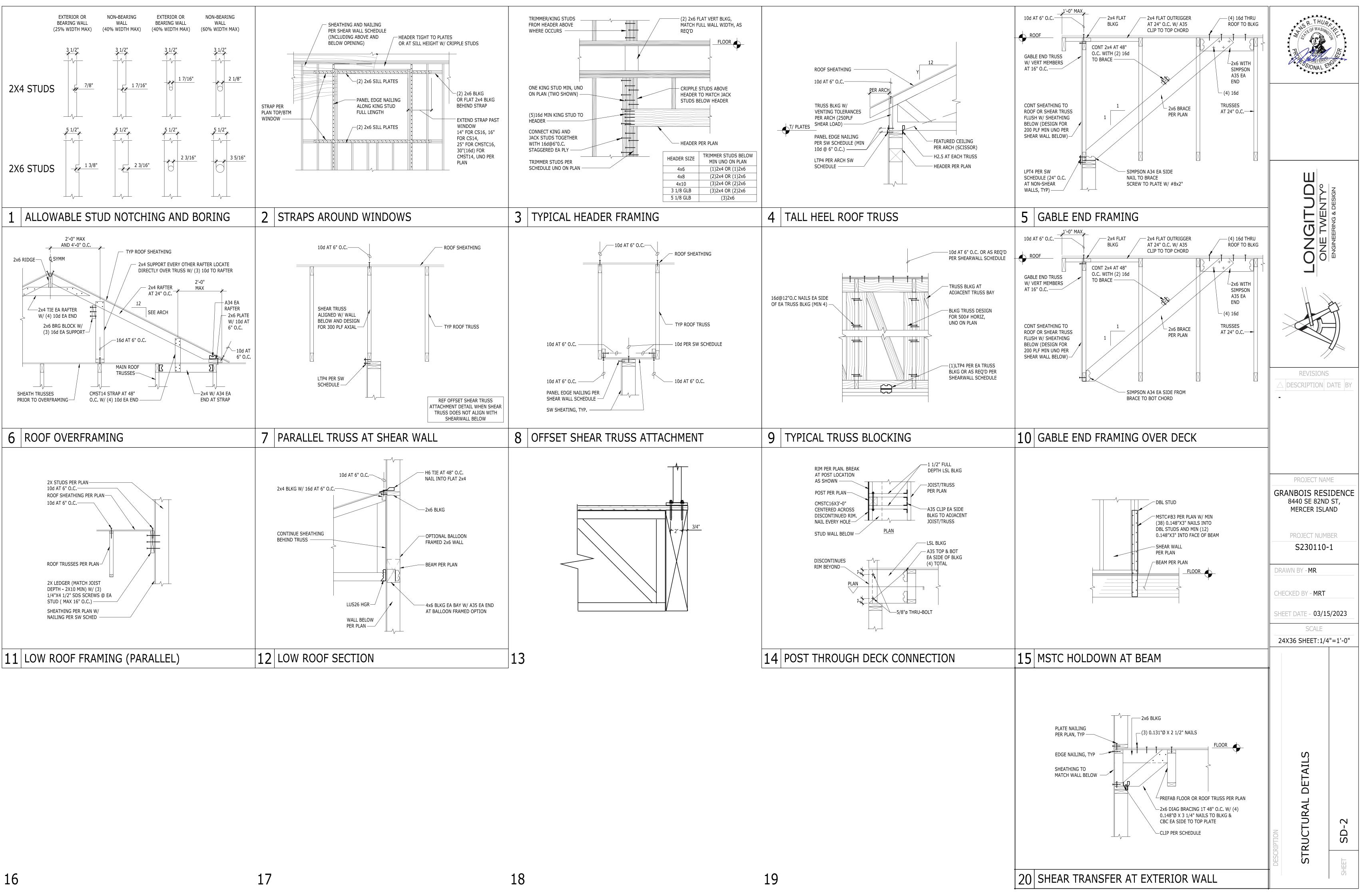
- ROOF OVERFRAMING
- 3 1/8" X 9" GLB (FH-5) EXAMPLE
 - REFERENCE TO BEAM OR TRUSS CALCULATION IN CALCULATION PACKAGE BEAM OR TRUSS MEMBER

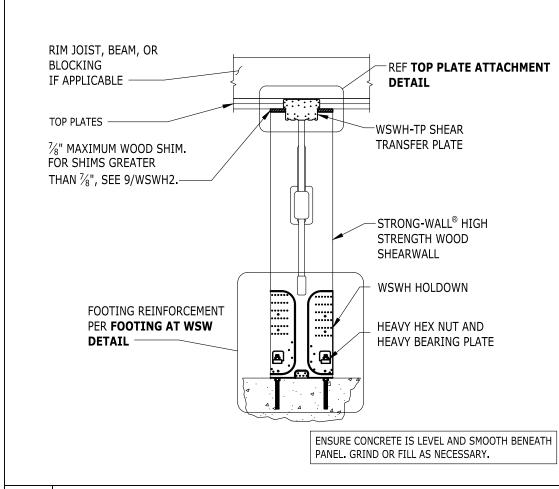
T - HANGER AS REQD EXTENTS OF SIMILAR JOISTS OR TRUSSES











2 WSWH SIMPSON STRONG WALL

