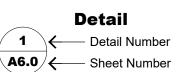
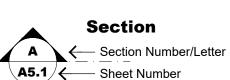
SYMBOL LEGEND



Grid Label







Manufacturer

Material

Maximum

ABBREVIATIONS LIST

Anchor Bolt

Adjustable, Adjust

Above

ADJ	Adjustable, Adjust	MAX	Maximum
AFF	Above Finish Floor	MDF	Medium Density
ALIGN AL	Alignment Aluminum	MDO	Fiberboard Medium Density
ASSEM	Assembly	IVIDO	Overlay
/ COLIVI	Accombin	MEMB	Membrane
BEL	Below	MIN	Minimum
BEY	Beyond	MIR	Mirror
BLKG	Blocking	MISC	Miscellaneous
BM	Beam	MTL	Metal
ВО	Bottom of		
BRG	Bearing	Ν	North
BTWN	Between	NO	Number
BW	Bottom of Wall	NOM	Nominal
		NTS	Not to Scale
CAB	Cabinet		
CJ	Control Joint	0/	Over
CLG	Ceiling	OC	On Center
CLR COL	Clearance, Clear Column	OH OSB	Opposite Hand Oriented Strand Board
COL	Concrete	USB	Oriented Strand Board
CONT	Continuous	PL	Plate, Property Line
CT	Ceramic Tile	PLAM	Plastic Laminate
01	Octamic Tile	PLYWD	Plywood
D	Deep, Depth	PSL	Parallel Strand Lumber
DET	Detail	PT	Pressure Treated
DIA	Diameter		
DN	Down	R	Radius
DS	Downspout	REF	Refrigerator
DW	Dishwasher	REINF	Reinforcing
		REQD	Required
E	East	RM	Room
EA	Each	RO	Rough Opening
EMBED	Embedment	RR	Roof Rafter
EQ	Equal		
EW	Each Way	S	South
EXIST	Existing	SCHED	Schedule, Scheduled
EXT	Exterior	SF	Square Feet
FINI	Finish	SHTG	Sheathing
FIN FLASH	Finish	SIM SPECS	Similar Specifications
FLASH	Flashing Floor	STL	Steel
FOC	Face of Concrete	STRUC	Structural
FOF	Face of Finish	SYM	Symmetrical
FOS	Face of Stud	OTIVI	Cymmetrical
FOUND	Foundation	T & B	Top and Bottom
FRPLC	Fireplace	T & G	Tounge and Groove
FT	Foot, Feet	TEMP	Tempered
FTG	Footing	TJI	Truss Joist I-beam joist
	-	TOP	Top of Plate
GALV	Galvanized	TOS	Top of Subfloor,
GLB	Glued Laminated		Top of Slab
	Beam	TW	Top of Wall
GWB	Gypsum Wall Board	TYP	Typical
Н	High	UBC	Uniform Building Code
HB	Hose Bibb	UNO	Unless Noted Otherwise
HDR	Header	\/D	Van an Damian
HDWD	Hardwood	VB	Vapor Barrier
HORIZ HT	Horizontal	VER VERT	Verify Vertical
HWT	Height Hot Water Heater	VENI	vertical
11001	Hot Water Heater	W	West, Watt, Width
INSUL	Insulation, Insulate	WWM	Welded Wire Mesh
JST	Joist	W/	With
JT	Joint	W/O	Without
	e = ::::=	WD	Wood
LF	Linear Foot	WDW	Window
LVL	Laminated Veneer	WP	Waterproofing,
	Lumber		Weatherproof
		WR	Water Resistant

MATL

MAX

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH WORK. GENERAL CONTRACTOR SHALL VISIT THE PREMISES TO FAMILIARIZE HIMSELF WITH ALL ASPECTS OF THE WORK BEFORE CONTRACTING WITH OWNER TO PERFORM THE WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS PRIOR TO THE START OF THE
- VERIFY ALL ITEMS TO BE REMOVED OR DEMOLISHED WITH THE OWNER PRIOR TO START OF THE WORK. CONTRACTOR SHALL IDENTIFY THOSE ITEMS TO BE INCORPORATED IN THE FINISHED PROJECT AND SHALL ARRANGE FOR THEIR SAFE STORAGE. SALVAGE VALUE OF REMOVED ITEMS SHALL BELONG TO THE OWNER UNLESS OTHERWISE AGREED.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES ASSOCIATED WITH PROJECT.
- IDENTIFICATION AND HANDLING OF EXISTING HAZARDOUS MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH ACTIVITIES SHALL BE UNDERTAKEN CONSISTENT WITH ALL CURRENT REGULATIONS GOVERNING HAZARDOUS
- GENERAL CONTRACTOR SHALL CONSULT/COORDINATE PLANS OF ALL TRADES FOR ALL OPENINGS THROUGH SLABS, CEILINGS, AND WALLS FOR DUCTS, PIPES, CONDUITS AND EQUIPMENT, AND SHALL VERIFY SIZE AND LOCATION WITH RESPECTIVE CONTRACTORS.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT INCLUDED IN THIS CONTRACT OR BY OTHERS. OBTAIN ROUGH-IN DIMENSIONS, REQUIREMENTS FOR
- REPETITIVE FEATURES MAY BE DRAWN ONLY ONCE. BUT SHALL BE PROVIDED AS IF

BACKING, SUPPORT AND LOCATION OF ITEMS PRIOR TO THE START OF WORK.

- ALL PIPING, CONDUITS AND DUCTS SHALL BE FURRED-IN IN ALL FINISHED ROOMS.
- CONTRACTOR SHALL VERIFY CONFORMANCE OF ACTUAL SOIL CONDITIONS WITH STRUCTURAL NOTES AND DESIGN ASSUMPTIONS.
- PROVIDE BACKING IN WALLS AS REQUIRED FOR INSTALLATION OF WALL-MOUNTED
- ALL MATERIALS AND WORKMANSHIP IN THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE ENTIRE
- PROJECT BY OWNER. DIMENSIONS SHOWN ON THE PLANS ARE, IN GENERAL, UNLESS SHOWN OR NOTED
- TO INTERIOR FACE OF CONCRETE.
- TO INTERIOR FACE OF EXTERIOR WALL STUDS.
- TO FACE OF INTERIOR WALL STUDS. TO CENTERLINE OF INTERIOR COLUMNS AND ISOLATED FOOTINGS.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT CONSTRUCTION AND

EXCAVATION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCE.

- ALL WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, DIRECTIONS AND RECOMMENDATIONS.
- SELECTION OF INTERIOR AND EXTERIOR FINISHES TO BE COORDINATED AND
- VERIFIED WITH OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS FOR THE WORK AND FOR REQUESTING REQUIRED REGULAR OR SPECIAL INSPECTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL WORK AND SUBMITTING SAMPLES, SHOP DRAWINGS AND OTHER REQUESTS FOR REVIEW BY THE OWNER ON A TIMELY BASIS.

VENTILATION & AIR QUALITY NOTES

VENT ALL BATHROOM FANS, LAUNDRY FANS, RANGE HOODS AND DRYERS TO OUTSIDE ATMOSPHERE. BATHROOM/UTILITY ROOM FANS SHALL BE CAPABLE OF 5 AIR CHANGES PER HOUR AND SHALL BE VENTED DIRECTLY TO THE OUTSIDE THROUGH SMOOTH RIGID NON-CORROSIVE METAL 24 GA DUCTWORK FLEX DUCTING IS NOT ALLOWED. WSEC R402.4.1.2 REQUIRES THE DWELLING UNIT TO BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 5 AIR CHANGES PER HOUR. TESTING MUST BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2. NEW CONSTRUCTION MAY BE ISOLATED FROM EXISTING STRUCTURE FOR TESTING

FIRE SPRINKLER & MONITORING

HOUSE SHALL BE EQUIPPED WITH AN NFPA 13D SPRINKLER SYSTEM AND A MONITORED NFPA 72 FIRE ALARM SYSTEM UNDER SEPARATE PERMIT. SYSTEM MUST BE INSTALLED, INSPECTED AND FINALLED PRIOR TO

NOXIOUS WEEDS

DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION 19.02.020(F)(3)(A). NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED. PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.

TREE PROTECTION

A TREE PROTECTION INSPECTION IS REQUIRED BEFORE START OF WORK

ENERGY NOTES 4C MARINE CLIMATIC ZONE UNLIMITED OPTION THERMAL STANDARDS FOR OPENINGS 2018 W.S.E.C, 2018 I.R.C, W.A.C. 51-11R CODES HEAT TYPE NATURAL GAS, FORCED AIR SYSTEM PER WSEC R401.3, A CERTIFICATE IS REQUIRED TO BE POSTED WITHIN 3 FT OF THE ELECTRICAL PANEL; IT MUST INCLUDE THE FOLLOW: PREDOMINATE R-VALUES. U-VALUES OF FENESTRATION. RESULTS FROM DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING, AND EFFICIENCIES OF HEATING/COOLING/WATER HEATING AIR INFILTRATION MANUFACTURED DOORS/WINDOWS: CONFORM TO SECTION R402.4.3 OF THE WASHINGTON STATE ENERGY CODE EXTERIOR JOINTS/OPENINGS: SEAL, CAULK, GASKET OR WEATHERSTRIP TO LIMIT AIR LEAKAGE AT EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF; OPENINGS AT PENETRATIONS OF UTILITY SERVICES AND ALL OTHER SUCH OPENINGS IN THE WALLS: VAPOR RETARDER BONDED TO BATT INSULATION; INSTALL WITH STAPLES NOT MORE THAN 8 MOISTURE CONTROL CENTER AND AND WITH A GAP BETWEEN AND OVER FRAMING NOT GREATER THAN 1/16 OF AN INCH; OR,

RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE) ATTICS/CEILINGS: VAPOR RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE). INSTALL

CRAWL SPACE: 6 MIL POLYETHELENE

VENTILATION ATTICS WITH LOOSE FILL: N.A. BAFFLE VENT OPENINGS TO DEFLECT AIR ABOVE INSULATION SURFACE ENCLOSED JOIST OR RAFTER SPACES: PROVIDE MINIMUM OF ONE INCH CLEAR VENTED AIR SPACE ABOVE INSULATION. TAPER OR COMPRESS INSULATION AT PERIMETER TO INSURE PROPER VENTILATION, MAINTAINING

FOR HEATING AND COOLING, THERMOSTAT SHALL BE CAPABLE OF BEING SET FROM 55-85 DEGREES FARENHEIT AND OF OPERATING THE HEATING/COOLING SYSTEM IN SEQUENCE. THERMOSTAT TO BE AUTOMATIC DAY/NIGHT SETBACK TYPE.

HEATING & COOLING GAS FURNACE & AIR SOURCE HEAT PUMP

THERMALLY INSULATE ALL PLENUMS, DUCTS AND ENCLOSURES IN ACCORDANCE WITH SECTION R403.3.1 OF DUCT ISULATION THE WASHINGTON STATE ENERGY CODE

JOINTS SHALL BE TAPED, SEALED AND FASTENED WITH THE MINIMUM OF FASTENERS PER WSEC. DUCTS WITHIN A CONCRETE SLAB OR IN THE GROUND SHALL BE INSULATED TO R-10, WITH INSULATION DESIGNED TO BE USED BELOW GRADE. RECESSED LIGHTING FIXTURES INSTALLED IN BUILDING ENVELOPE SHALL COMPLY WITH WSEC PROVISIONS

a. ALL HEATING DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MIN. OF R-8. ALL SEAM

AND SHALL BE IC LISTED. A MIN. OF 75% OF PERMANENTLY INSTALLED LAMPS IN INTERIOR AND EXTERIOR LIGHTING FIXTURES MUST BE HIGH-EFFICACY LAMPS, PER WSEC R404.1. PIPE INSULATION ALL HOT WATER PIPES, AND NON-RECIRCULATING COLD WATER PIPES LOCATED IN UNCONDITIONED SPACE, SHALL BE INSULATED TO R-3 MIN. PLUMBING OR MECHANICAL CANNOT DISPLACE THE REQUIRED INSULATION.

WHOLE HOUSE WHOLE HOUSE VENTILATION SYSTEM: VENTILATION a. WHOLE HOUSE VENTILATION SHALL BE PROVIDED BY EXHAUST FAN PROVIDING 320 CFM RUNNING INTERMITTENTLY PER 2018 IRC TABLES M1507.3.3 (1&2). FAN SHALL BE LESS THAN .35 WATT PER CFM AND CONNECTED TO A 24 HOUR CLOCK TIMER AND HAVE A SONE RATING OF LESS THAN 1.0. VENTILATION SHALL BE ABLE TO OPERATE INDEPENDENTLY OF HEATING SYSTEM. SYSTEM SHALL HAVE A 5"Ø SMOOTH FRESH AIR DUCT W/ LOUVER & SCREEN CONNECTED TO THE

RETURN AIR STREAM 4' UPSTREAM OF THE AIR HANDLER AND INSULATED W/ R-4 MIN IN HEATED AREAS. SHALL HAVE A FILTER WITH A MERV OF AT LEAST 6 INSTALLED IN AN EASILY ACCESSIBLE LOCATION. FRESH AIR VENT SHALL BE LOCATED AWAY FROM SOURCES OF ODORS OR FUMES, MIN 10' FROM PLUMBING OR APPLIANCE VENTS, AWAY FROM ROOMS W/ FUEL BURNING APPLIANCES, AND OUT OF ATTICS, CRAWL SPACES, AND GARAGES.

e. AIRFLOW FOR WHOLE HOUSE EXHAUST FAN SHALL BE PROVIDED BY UNDERCUTTING INTERIOR DOORS 1/2" ABOVE FINISHED FLOOR, TYP.

PLUMBING FIXTURES ALL PLUMBING FIXTURES SHALL CONFORM TO RCW 19.27.170 ALL TOILETS 1.6 GPM MAX URINALS 1.0 GPF MAX SHOWERHEADS < 1.75 GPM KITCHEN FAUCETS < 1.75 GPM

LAVATORIES < 1.0 GPM

ENERGY CREDITS

MEDIUM DWELLING UNIT: 6 CREDITS REQUIRED

OPTION	N DESCRIPTION	CREDITS
1.3	EFFICIENT BUILDING ENVELOPE: VERTICAL FENESTRATION- U=0.28, FLOOR- R-38, SLAB ON GRADE/BELOW GRADE SLAB- R-10 PERIMETER+ UNDER ENTIRE SLAB	0.5
2.2	REDUCE TESTED AIR LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAX. @ 50 PASCALS	1.0
3.5	AIR SOURCE, CENTRALLY DUCTED HEAT PUMP WI MIN. HSPF OF 11	1.5
4.2	ALL HVAC DUCTS AND COMPONENTS TO BE LOCATED IN CONDITIONED SPACE PER R403.3.7	1.0
5.4	EFFICIENT WATER HEATING: ELECTRIC HEAT PUMP WATER HEATER TO MEET TIER I OF NEEA'S ADVANCED WATER HEATING SPECIFICATION	1.5
7.1	APPLIANCE PACKAGE; ENERGY STAR RATED DISHWASHER, REFRIG., WASHING MACHINE & DRYER (VENTLESS W/ MIN. CEF 5.2)	0.5
	TOTAL CREDITS	6.0

PROJECT TEAM

TERRANE

425-458-4488

10801 MAIN STREET #102

BELLEVUE WA 98004

ARCHITECT FORMWORKS DESIGN BUILD 7434 SE 71ST STREET MERCER ISLAND WA 98040 206-406-1589 206-406-1589	LANDSCAPE ARCHITECT BERGER PARTNERSHIP 1927 POST ALLEY STE. 2 SEATTLE WA 98101 JASON HENRY 206-492-5579
STRUCTURAL ENGINEERING MERRELL DESIGN SERVICES NINE MILE FALLS WA 99026 T.J. MERRELL 509-998-7410	GEOTECH TERRA ASSOCIATES 12220 113TH AVENUE NE, SUITE 130 KIRKLAND WA 98034 CAROLYN DECKER 206-255-4988
CIVIL ENGINEER CORE DESIGN 12100 NE 195TH ST. #300 BOTHELL WA 98011 SHERI MURATA 425-885-7877	ENVIRONMENTAL THE WATERSHED COMPANY 750 6TH AVENUE S. KIRKLAND WA 98033 DAN NICKEL 425-822-5242
SURVEYOR	ARBORIST ABC CONSULTING ARBORISTS

10307 JASMINE LANE

DANIEL MAPLE

509-953-0293

CHATTAROY WA 99003



VICINITY MAP

NO SCALE

PROJECT INFORMATION

OWNERS NAME: DEREK AND EILEEN CHESHIRE 7615 EAST MERCER WAY MERCER ISLAND, WA 98040

PROJECT ADDRESS: 9271 SE 76TH STREET MERCER ISLAND, WA 98040

SCOPE OF WORK: CONSTRUCTION OF A NEW SINGLE FAMILY RESIDENCE WITH ATTACHED GARAGE

PARCEL IDENTIFICATION NUMBER: 302405-9230

JURISDICTION: CITY OF MERCER ISLAND

MERCER ISLAND PROJECT NUMBER: 2109-050

R-9.6 (RESIDENTIAL-SINGLE FAMILY) ZONING: **BUILDING OCCUPANCY** R-3 SINGLE FAMILY RESIDENCE

LEGAL DESCRIPTION

THAT PORTION OF THE NORTH 148.37 FEETOF A PORTION OF GOVERNMENT LOT 5, LYING WESTERLY OF EAST MERCER WAY; ALL IN SECTION 30, TOWNSHIP 24 NORTH, RANGE 5, EAST, WILLAMETTE MERIDIAN, IN KING COUNTY DESCRIBED AS FOLLOWS:

BEGINNING AT INTERSECTION OF THE NORTH LINE OF SAID GOVERMENT LOT 5 AND THE WESTERLY RIGHT-OF-WAY MARGIN OF EAST MERCER WAY; THENCE N88°51'48"W, ALONG SAID NORTH LINE 163.93'

THENCE S34°46'02"W 136.17' THENCE S67°25'49"E 20.08' TO SAID WESTERLY MARGIN AND A POINT OF NON-RADIAL INTERSECTION WITH A 603.14 ADIUS CURVE TO THE RIGHT. THE CENTER OF WHICH BEARS

A4.1 SECTION

A4.2 SECTION

\$1.0 GENERAL STRUCTURAL NOTES

\$2.1 FIRST FLOOR FRAMING PLAN

\$2.2 SECOND FLOOR FRAMING PLAN

\$2.4 FIRST & SECOND FLOOR STUD PLANS

\$2.0 FOUNDATION PLAN

\$2.3 ROOF FRAMING

\$3.0 STRUCTURAL DETAILS

\$3.1 STRUCTURAL DETAILS

\$3.2 STRUCTURAL DETAILS

THENCE NORTHEASTERLY, ALONG SAID CURVE AND RIGHT -OF-WAY MARGIN, THROUGH A CENTRAL ANGLE OF 02°39'31", A DISTANCE OF 27.99 FEET TO A POINT OF TANGENCY; THENCE N62°36'13"E, LONG SAID MARGIN, 223.54' TO THE POINT OF BEGINNING.

CODES USED

2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL FIRE CODE 2018 WASHINGTON STATE ENERGY CODE (WSEC)

DRAWING INDEX

COVERSHEET **A-0** PROJECT INFORMATION, LEGAL DESCRIPTION, VICINITY MAP, SYMBOL LEGEND, ABBREVIATIONS LIST, GENERAL NOTES, VENTILATON & ENERGY NOTES, DRAWING INDEX

SURVEY **A-1** SITE PLAN

C-1 TITLE SHEET

C-2 TESC PLAN **C-3** ROAD, GRADING, STORM DRAINAGE **C-4** STORMWATER DETAILS

C-5 TREE PLAN L-1 TREE REPLACEMENT PLAN

A2.0 LOWER FLOOR PLAN **A2.1** MAIN FLOOR PLAN

A2.3 ROOF PLAN

A2.2 SECOND FLOOR

A3.0 NORTH ELEVATION **A3.1** SOUTH ELEVATION **A3.2** EAST ELEVATION

A3.3 WEST ELEVATION

FORMWORKS DESIGN I BUILD SEAL

> ARCHITECT \ ALLAN BLAIN CLARK | STATE OF WASHINGTON

REGISTERED

CONSULTANT

PROJECT

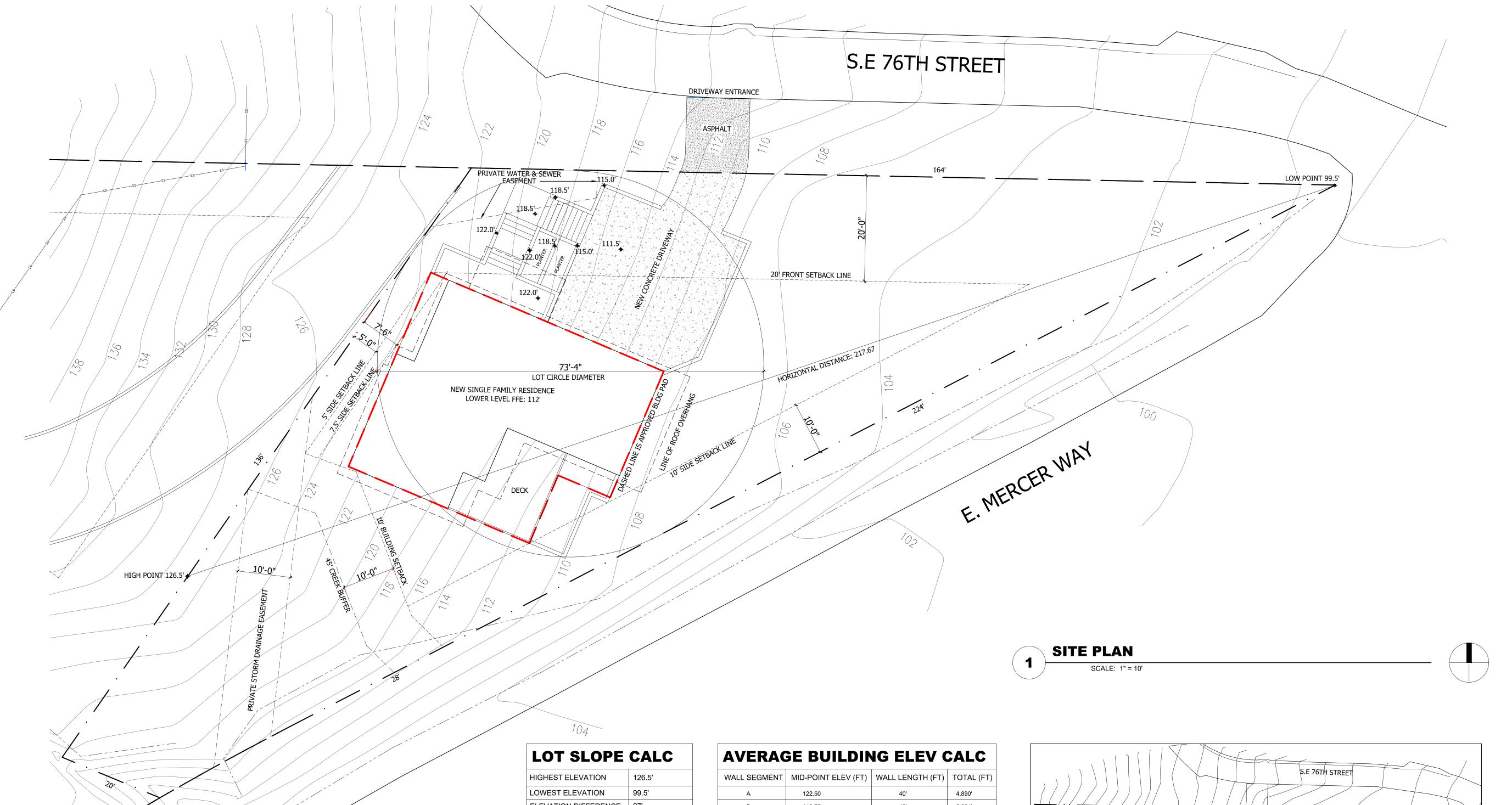
ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

COVER SHEET PROJECT INFORMATION

SHEET NUMBER



LOT SLOPE	CALC
HIGHEST ELEVATION	126.5'
LOWEST ELEVATION	99.5'
ELEVATION DIFFERENCE	27'
HORIZ. DISTANCE	217.67'
27/217.67 =	.124
LOT SLOPE	12.4%
LOT COVERAGE ALLOWED	40%
TOTAL COVER. ALLOWED	40%

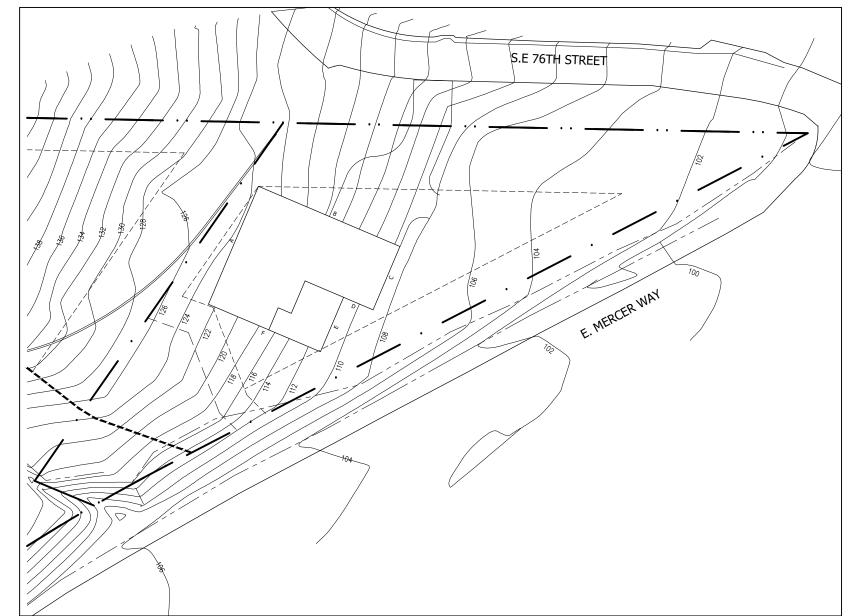
GROSS FLOOR	AREA
UPPER FLOOR AREA	1,395 SF
MAIN FLOOR AREA	1460 SF
BASEMENT/LOWER AREA	1,299 SF
GARAGE AREA	506 SF
COVERED DECKS	506 SF
BASEMENT EXCLUTION	746 SF
STAIR EXCLUTION	69 SF
TOTAL GFA COVERAGE	3,999 SF
PERCENTAGE OF SITE AREA	35.85 %

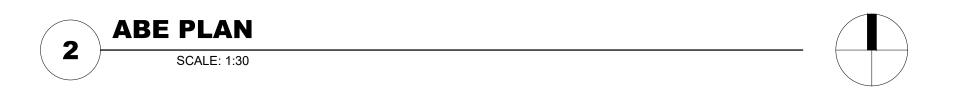
LOT COVERA	GE
SITE AREA	11,154 SF
ALLOWED LOT COVERAGE	4,462 SF
MAIN STRUCTURE ROOF	1,765 SF
VEHICULAR USE	936 SF
COVERED PATIOS/DECKS	326 SF
TOTAL LOT COVERAGE	3,027 SF
LOT COVERAGE ALLOWED	40%
LOT COVERAGE PROPOSED	27.14 %

HARDSCAPE	
SITE AREA	11,154 SF
ALLOWED HARDSCAPE 9%	1,004 SF
WALKWAYS	403 SF
STAIRS	126 SF
RETAINING WALLS	128 SF
STAIR LANDING	183 SF
TOTAL HARDSCAPE AREA	840 SF
PERCENTAGE OF SITE AREA	7.53 %

AVERAC	SE BUILDIN	IG ELEV (CALC
WALL SEGMENT	MID-POINT ELEV (FT)	WALL LENGTH (FT)	TOTAL (FT)
А	122.50	40'	4,890'
В	116.75	48'	5,604'
С	109.00	21.5'	2,343.5'
D	110.00	10'	1'100'
Е	110.75	18.5'	2,049'
F	116.50	38'	4,427'
TOTALS		176'	20,413.5'
	$\frac{20,413.5}{176}$ = 116' AVE	ERAGE BUILDING ELE	VATION

WALL SEGMENT	LENGTH	COVERAGE	RESUL
А	40'	100%	40
В	48'	50%	24
С	21.5'	0%	0
D	10'	0%	0
E	18.6'	0%	0
F	38'	33%	12.54
TOTALS	176		76.54







5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

STISE 76TH STREET WEDGED ISLAND, WA 98040

ISSUE INFORMATION

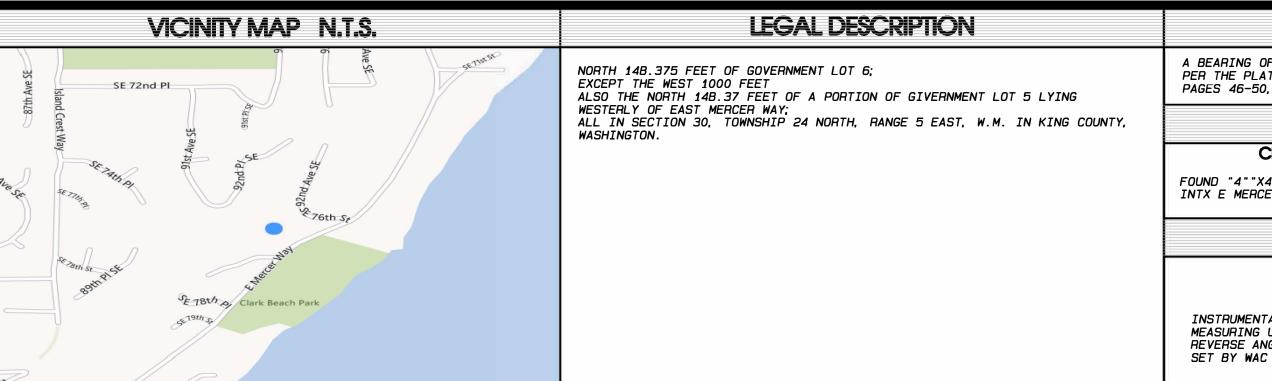
09.15.2022 PERMIT REVISIONS

SHEET TITLE

SITE PLAN PROJECT DATA

SHEET NUMBER

A-1



BEARING MERIDIAN A BEARING OF S50 21 13 W BETWEEN TWO FOUND MONUMENTS, "A" AND "B", PER THE PLAT OF TARYWOOD PARK, AS RECORED IN VOLUME 127 OF PLATS, PAGES 46-50, RECORDS OF KING COUNTY, WA.

VERTICAL DATUM

CITY OF MERCER ISLAND BENCH MARK NO. 2415 (NAVO BB) (VISITED 07/0B/2013)
FOUND "4""X4"" CONC W/COPPER TACK IN LEAD (ON 1.0')", LOCATED "250FT S,
INTX E MERCER WAY & SE 76TH ST".

ELEVATION = 104.47

METHOD OF SURVEY

INSTRUMENTATION FOR THIS SURVEY WAS A LEICA ELECTRONIC DISTANCE MEASURING UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES, NO CORRECTION NECESSARY. MEETS STATE STANDARDS SET BY WAC 332-130-090.

- 1) THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JULY OF 2013. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVIENENCE
- ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS. 2) SUBJECT PROPERTY TAX PARCEL NO. 3024059036.
- 3) SUBJECT PROPERTY AREA PER THIS SURVEY IS BB, 557 SQ.FT.+/-. 4) A TITLE REPORT WAS NOT FURNISHED AND THEREFORE, EASEMENTS

SURVEYOR'S NOTES

- IF ANY, ARE NOT SHOWN ON THIS MAP. 5) THE TOP/TOE OF SLOPE SHOWN ON THIS SURVEY IS THE FIELD CREWS INTERPRETATION OF THE TOP/TOE OF SLOPE. THIS DOES NOT REPRESENT THE LIMITS OF A "40%" SLOPE AREA.
- FOUND MONUMENT AS NOTED SET REBAR & CAP AS NOTED FOUND REBAR & CAP AS NOTED

■ ELECTRIC METER

X SPOT ELEVATION

ூ STORM DRAIN MANHOLE

■ ELECTRIC TRANSFORMER

FIRE HYDRANT

₩ WATER VALVE

CABLE TV POLE

① TELEPHONE MANHOLE

■ GAS VALVE

- UTILITY POLE □ CATCH BASIN
- S SANITARY SEWER MANHOLE
- * FINISHED FLOOR ELEVATION
- GRAVEL SURFACE R-O-W RIGHT-OF-WAY () RECORD AS NOTED
 - "TYP" TYPICAL ___________________________CENTERLINE OF ROAD — — — — EAVES

GUY WIRE

LEGEND

[[]]] STAIRS

DECK

ASPHALT SURFACE

- TOE OF DITCH AS NOTED BUILDING LINE
- MAPLE TREE (NOT SHOWN TO SCALE)
 TRUNK DIA SHOWN IN INCHES. HEMLOCK TREE (NOT SHOWN TO SCALE)

TRUNK DIA SHOWN IN INCHES.

TRUNK DIA SHOWN IN INCHES. FIR TREE (NOT SHOWN TO SCALE)

TRUNK DIA SHOWN IN INCHES.

COTTON TREE (NOT SHOWN TO SCALE)

TRUNK DIA SHOWN IN INCHES.

TRUNK DIA SHOWN IN INCHES.

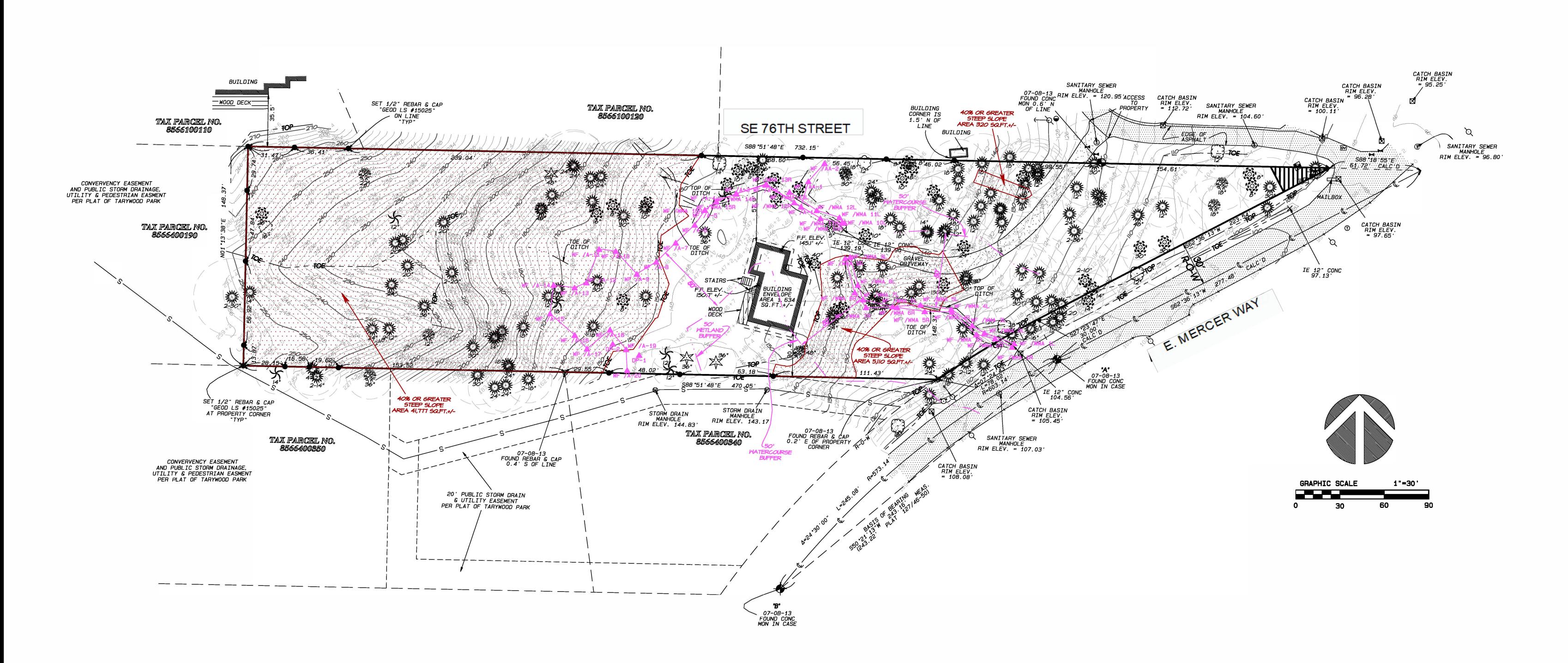
TRUNK DIA SHOWN IN INCHES.

REDWOOD TREE (NOT SHOWN TO SCALE)

CEDAR TREE (NOT SHOWN TO SCALE)

ALDER TREE (NOT SHOWN TO SCALE)

TRUNK DIA SHOWN IN INCHES. DECIDUOUS TREE (NOT SHOWN TO SCALE)



TOPOGRAPHIC & BOUNDARY SURVEY

JU	パント	L Y	CHECKE	D BY: E.J.G.
			SCALE:	1" = 30'
	REVIS	ION HISTORY	REVISI	ON HISTORY
	DATE:	06/20/2016	DATE:	01/26/2016
	DATE:	07/12/2016	SHEE	T NUMBER
	DATE:	03/24/2017	1	0F 1

JOB NUMBER: 13507

DRAFTED BY: V.L.J.

07/09/2013





TOPOGRAPHIC & BOUNDARY SURVEY NE 1/4 OF THE SW 1/4 AND THE NW 1/4 OF THE SE 1/4 OF SEC. 30, TWP. 24N., RGE. 5E., W.M. CITY OF MERCER ISLAND, KING COUNTY, WA.

CHESHIRE RESIDENCE 7615 E. MERCER WAY MERCER ISLAND, WA. 98040

CHESHIRE SHORT PLAT LOT 1

DEREK CHESHIRE

VERTICAL DATUM

CITY OF MERCER ISLAND BENCH MARK NO. 2415 (NAVD 88) (VISITED 07/08/2013) FOUND "4""X4"" CONC W/COPPER TACK IN LEAD (DN 1.0')", LOCATED "250FT S, INTX E MERCER WAY & SE 76TH ST".

ELEVATION = 104.47'

METHOD OF SURVEY

INSTRUMENTATION FOR THIS SURVEY WAS A LEICA ELECTRONIC DISTANCE MEASURING UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES, NO CORRECTION NECESSARY. MEETS STATE STANDARDS SET BY WAC 332-130-090

BEARING MERIDIAN

A BEARING OF S50°21'13"W BETWEEN TWO FOUND MONUMENTS, "A" AND "B", PER THE PLAT OF TARYWOOD PARK, AS RECORED IN VOLUME 127 OF PLATS, PAGES 46-50, RECORDS OF KING COUNTY, WA.

LEGAL DESCRIPTION

NORTH 148.375 FEET OF GOVERNMENT LOT 6; EXCEPT THE WEST 1000 FEET ALSO THE NORTH 148.37 FEET OF A PORTION OF GIVERNMENT LOT 5 LYING WESTERLY OF EAST MERCER WAY; ALL IN SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. IN KING COUNTY, WASHINGTON.

SURVEYOR'S NOTES

- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JULY OF 2013. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVIENENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
- 2. SUBJECT PROPERTY TAX PARCEL NO. 3024059036.
- 3. SUBJECT PROPERTY AREA PER THIS SURVEY IS 88,557 SQ.FT.+/-.
- 4. A TITLE REPOART WAS NOT FURNISHED AND THEREFORE, EASEMENTS IF ANY, ARE NOT SHOWN ON THIS MAP.
- 5. THE TOP/TOE OF SLOPE SHOWN ON THIS SURVEY IS THE FIELD CREWS INTERPRETATION OF THE TOP/TOE OF SLOPE.
 THIS DOES NOT REPRESENT THE LIMITS OF A "40%" SLOPE AREA.

SETBACKS

FRONT 20'
SIDE VARIABLE SEE MICC 19.02.020(C)(1)(c)(iii)
REAR 25'

SITE STATISTICS

PARCFI NO: 302405-91

TOTAL AREA: (+/-) 92,347 S.F. (2.12± ACRES)

PROPOSED NUMBER OF LOTS 2

MAXIMUM UNITS: 2

ZONING R-

EXISTING USE: SINGLE FAMILY RESIDENTIAL

PROPOSED USE: SINGLE FAMILY RESIDENTIAL

MAXIMUM BUILDING HEIGHT:

MAXIMUM IMPERVIOUS SURFACE:

LOT SLOPE LOT COVERAGE (LIMIT FOR IMPERVIOUS SURFACE)

 LESS THAN 15%
 40%

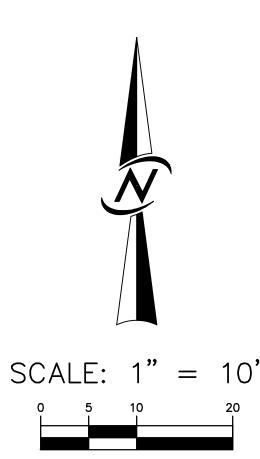
 15% TO LESS THAN 30%
 35%

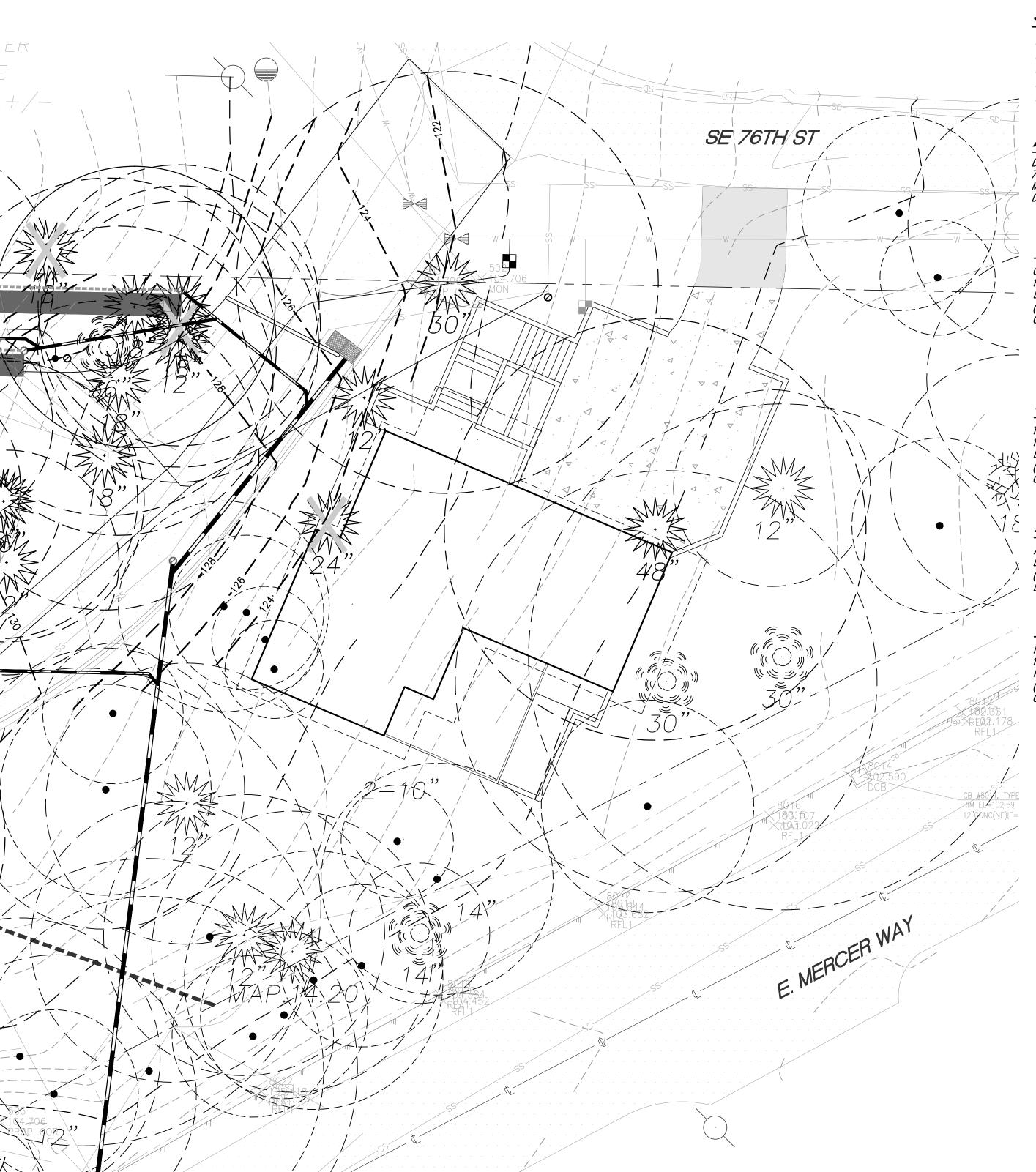
 30% TO 50%
 30%

 GREATER THAN 50% SLOPE
 20%

LOT 1 HAS A SLOPE OF 12%, THEREFORE THE MAXIMUM LOT COVERAGE IS 40% OR 4,461 SF.

30' ABOVE TO THE HIGHEST POINT OF THE ROOF





SHEET INDEX

C1.01 TITLE SHEET
C2.01 PRELIMINARY SHORT PLAT
C3.01 ROAD, GRADING & STORM DRAINAGE PLAN
C3.21 STORMWATER DETAILS
C4.01 TREE PLAN

APPLICANT/OWNER

DEREK CHESHIRE 7615 MERCER WAY MERCER ISLAND, WA 98040 DCHESHIRE@BOSKONE.NET

ENGINEER

CORE DESIGN, INC. 12100 NE 195TH ST, SUITE 300 BOTHELL, WA 98011 (425) 885-7877 CONTACT: SHERI MURATA, P.E. - ENGINEER SHM@COREDESIGNINC.COM

SURVEYOR

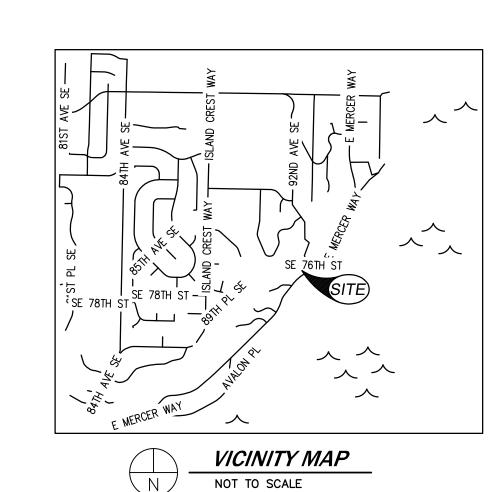
TERRANE 10801 MAIN STREET, SUITE 102 BELLEVUE, WA. 98004 (425) 458–4488 CONTACT: EDWIN J. GREEN SUPPORT@TERRANE.NET

ARBORIST

A.B.C. CONSULTING ARBORISTS, LLC DANIEL J. MAPLE (509) 953-0293 DANIEL@ABCARBORIST.COM

GEOTECHNICAL ENGINEER

TERRA ASSOCIATES, INC. 12220 113TH AVENUE NE, SUITE 130 KIRKLAND, WA. 98034 (425) 821–7777 CONTACT CAROLYN DECKER



UNDERGROUND LOCATOR SERVICE

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811

PERMIT NO: 2109-050-SUB1

NO. REVISIONS DATE

1 CITY COMMENTS

2 CITY COMMENTS

10/5/2



11 425.885.7877

PLANNING SURVEYING othell, Washington 98011

DESIGN 195th St, Suite 300 E

RE SHORT PLAT LO EREK CHESHIRE 7615 E MERCER WAY

SAM D. SIMPSON-CORDON

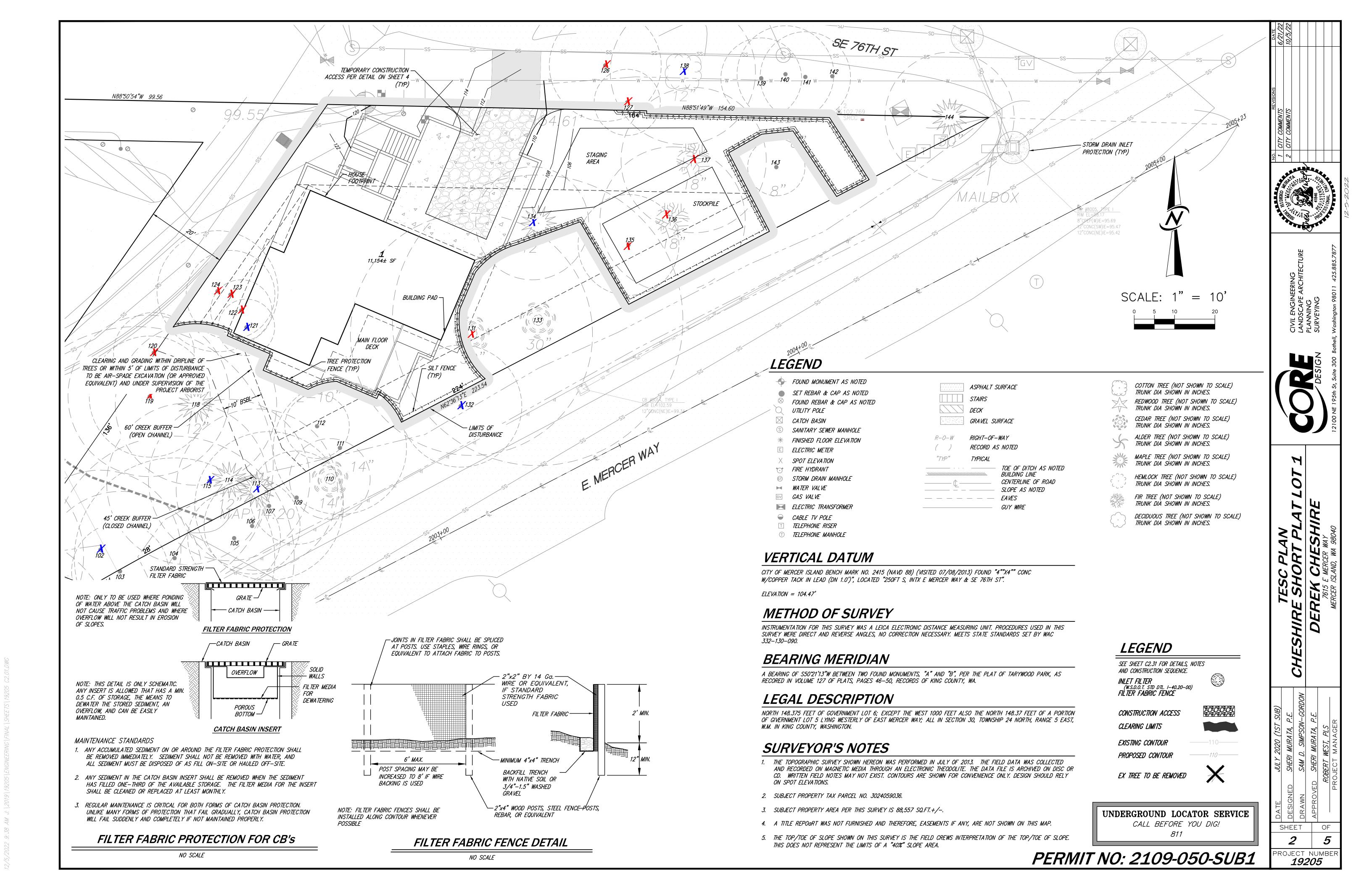
D. SHERI MURATA, P.E.

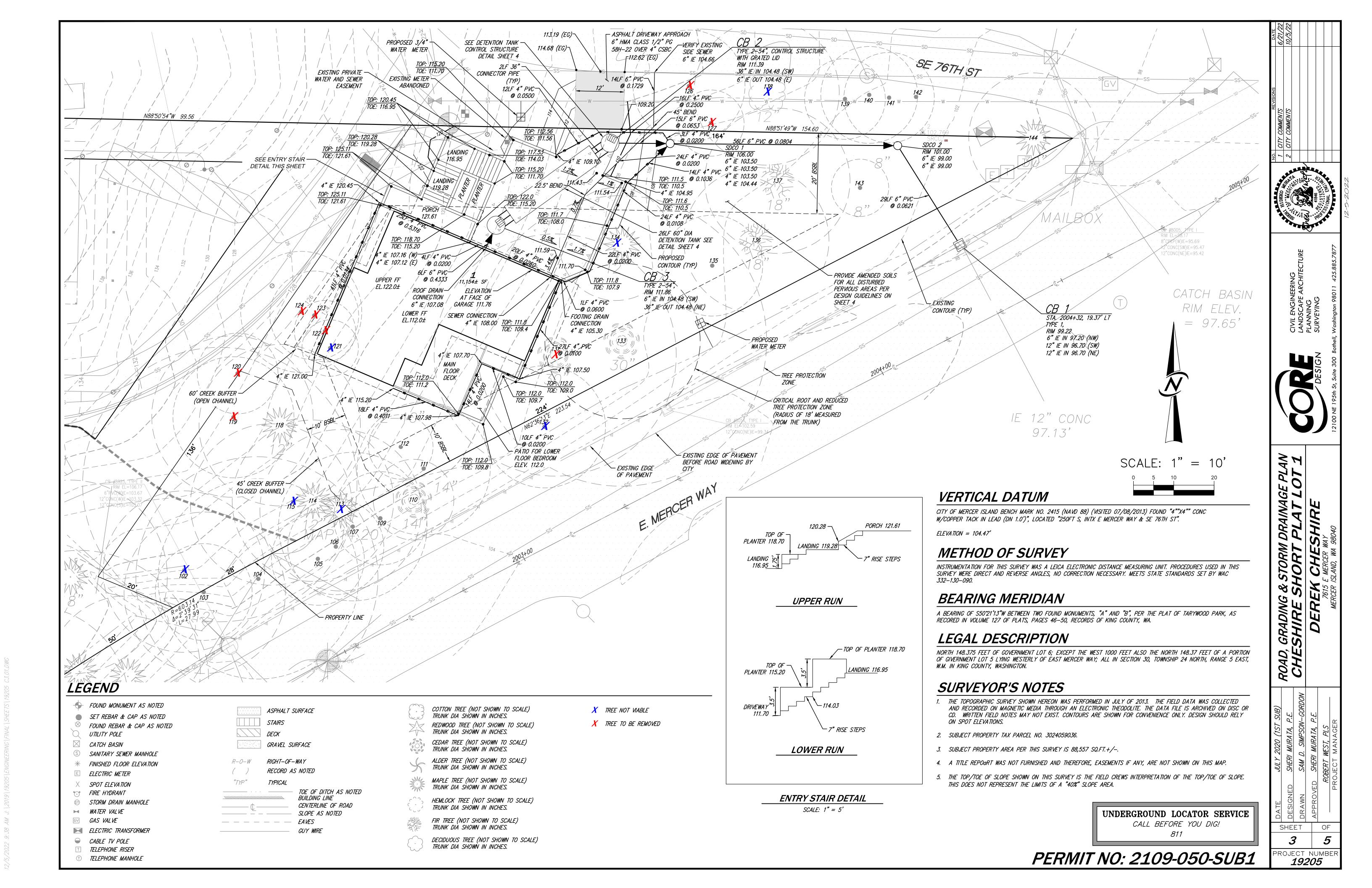
ROBERT WEST, PLS

ROJECT MANAGER

SHEET OF APPROVE

PROJECT NUMBER 19205





(SEE BMP T5.13 POST CONSTRUCTION SOIL QUALITY AND DEPTH IN THE 2014 DOE MANUAL FOR THE FULL DESIGN REQUIREMENT)

OU DETENTION

RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

<u> OIL QUALITY</u>

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.

2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL

3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS: a. THE ORGANIC CONTENT FOR "PRE—APPROVED" AMENDMENT RATES CAN BE MET ONLY

a. THE ORGANIC CONTENT FOR "PRE—APPROVED" AMENDMENT RATES CAN BE MET ONLY
USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP 17.30),
WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE.

THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1.

THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.

b. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220—B, TESTING PARAMETERS, IN WAC 173—350—220.

Driveway shall meet the requirements of the permitting agency It is recommended that the entrance be crowned so that runoff drains off the pad Install driveway culvert if there is a roadside ditch present 4' – 8" quarry spalls Geotextile Provide full width of ingress/egress area

Figure 4.1.1 – Stabilized Construction Entrance

Approved as Equivalent

Ecology has approved products as able to meet the requirements of <u>BMP</u> <u>C105</u>. The products did not pass through the Technology Assessment Protocol – Ecology (TAPE) process. Local jurisdictions may choose not to accept this product approved as equivalent, or may require additional testing prior to consideration for local use. The products are available for review on Ecology's website at

http://www.ecy.wa.gov/programs/wq/stormwater/newtech/equivalent.html

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PERMIT NO: 2109-050-SUB1

MAN STATE OF WASHINGTON OF THE WORLD OF THE

PLANNING SURVEYING Iell, Washington 98011 425.885

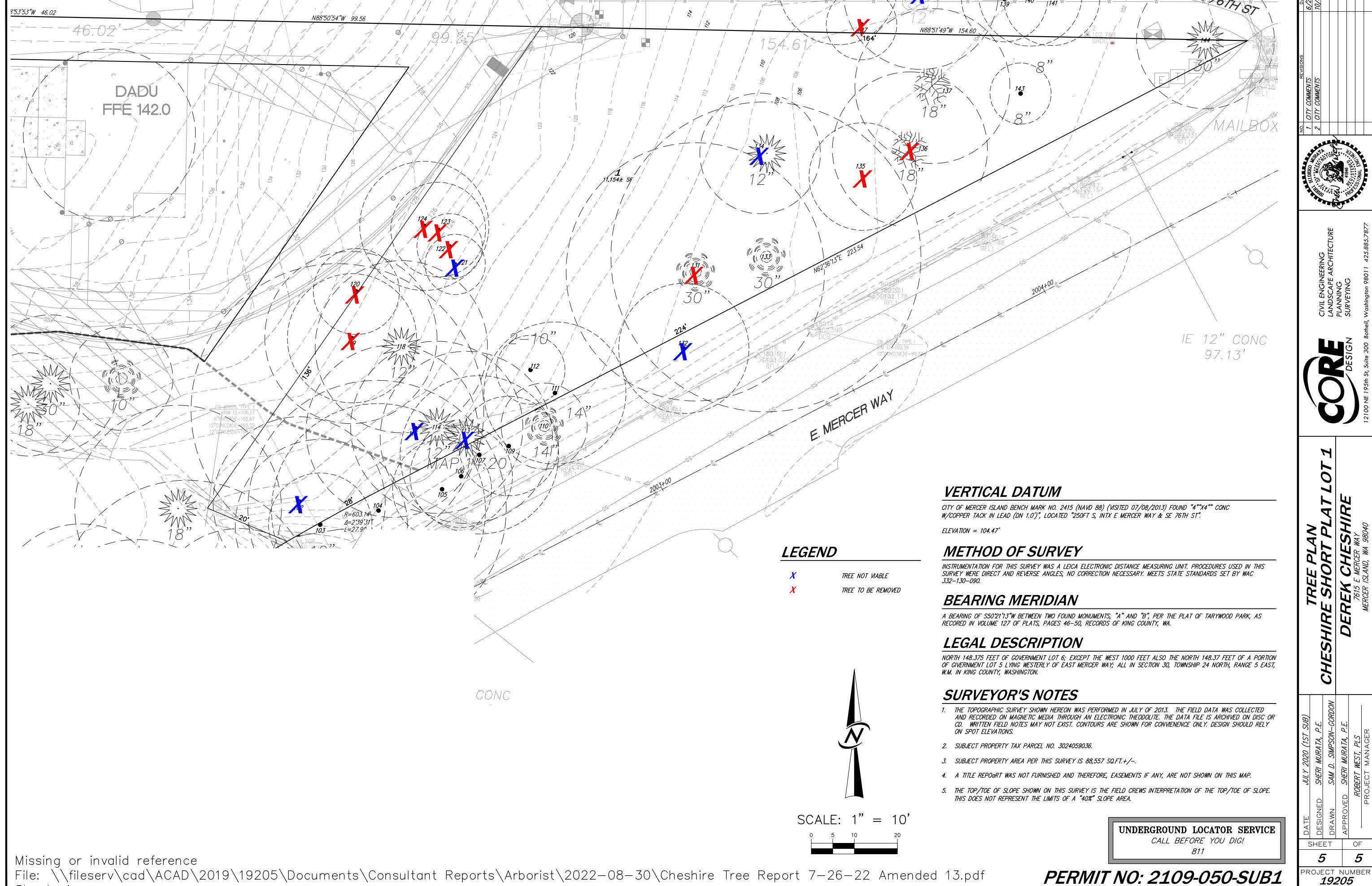
DESIGN 12100 NE 195th St, Suite 300 Bo

STORMWATER DETAILS
SHIRE SHORT PLAT LO
DEREK CHESHIRE

WN SAM D. SIMPSON-GORDON
ROVED SHER! MURATA, P.E.
ROBERT WEST, PLS
PROJECT MANAGER

SHEET OF **5**

PROJECT NUMBER 19205



12/5/2022 9:39 AM J-12019/19205/FNGWEFRNG/FINA/ SHFFTS

Sh





5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

ISSUE INFORMATION

Number of Tree Required for

Replacement

Based

on

Size/Type

O

16

20

QUANTITY

Number of

Trees

Proposed for

Removal

*PER ARBORIST REPORT DATED JULY 25TH 2019

SPACING

10'

TOTAL

Tree

replacement

Ratio

TOTAL TREE

REPLACEMENTS

1 Exempt

1 at 1:1

2:1

3:1

6:1

4.5' above ground)

NAME

VINE MAPLE

ACER CIRCNATUM

MOUNTAIN HEMLOCK

TSUGA MERTENSIANA

PACIFIC DOGWOOD

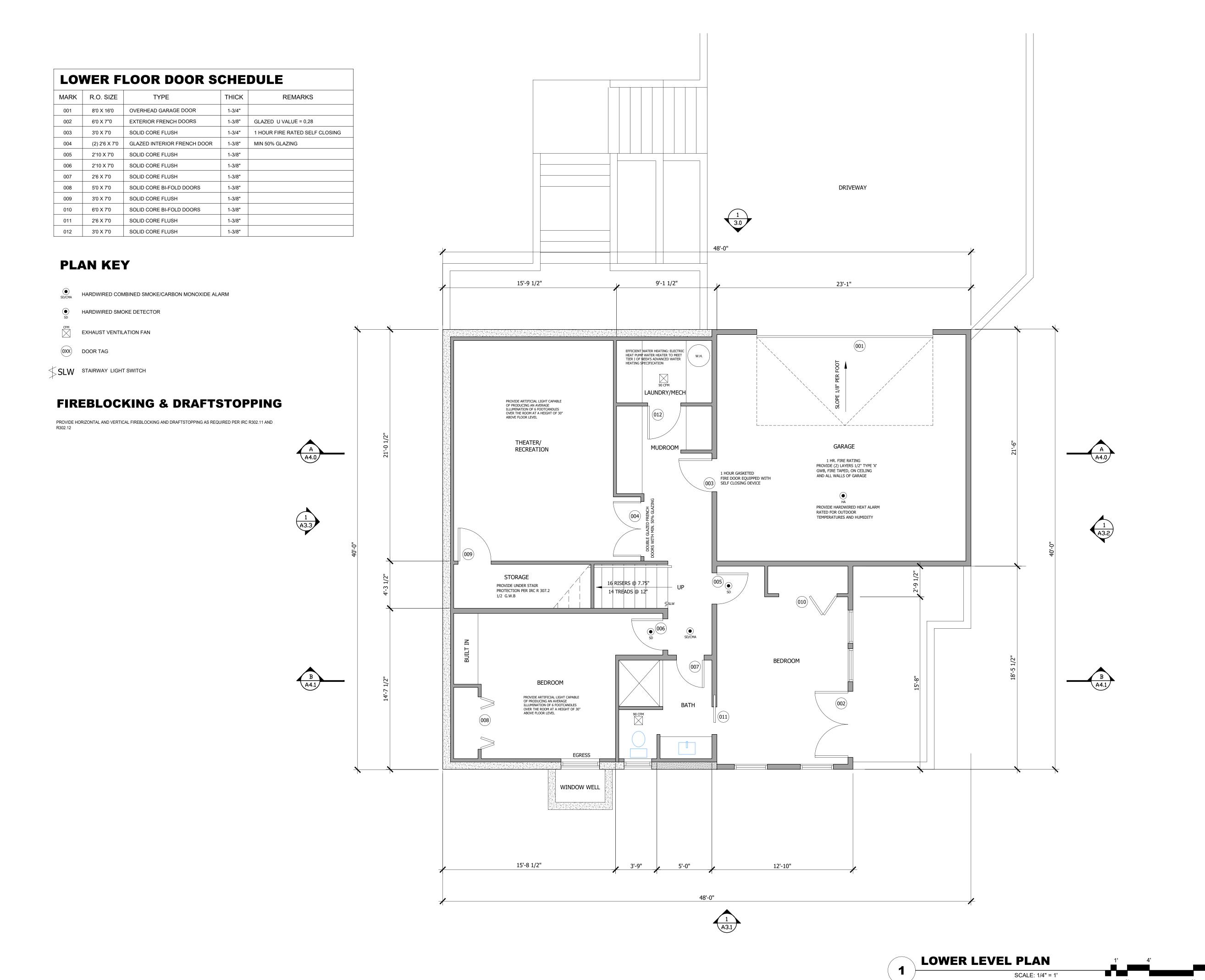
CORNUS NUTTALLII

09.15.2022 PERMIT REVISIONS

SHEET TITLE

PLANTING PLAN

SHEET NUMBER





CEAL

5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

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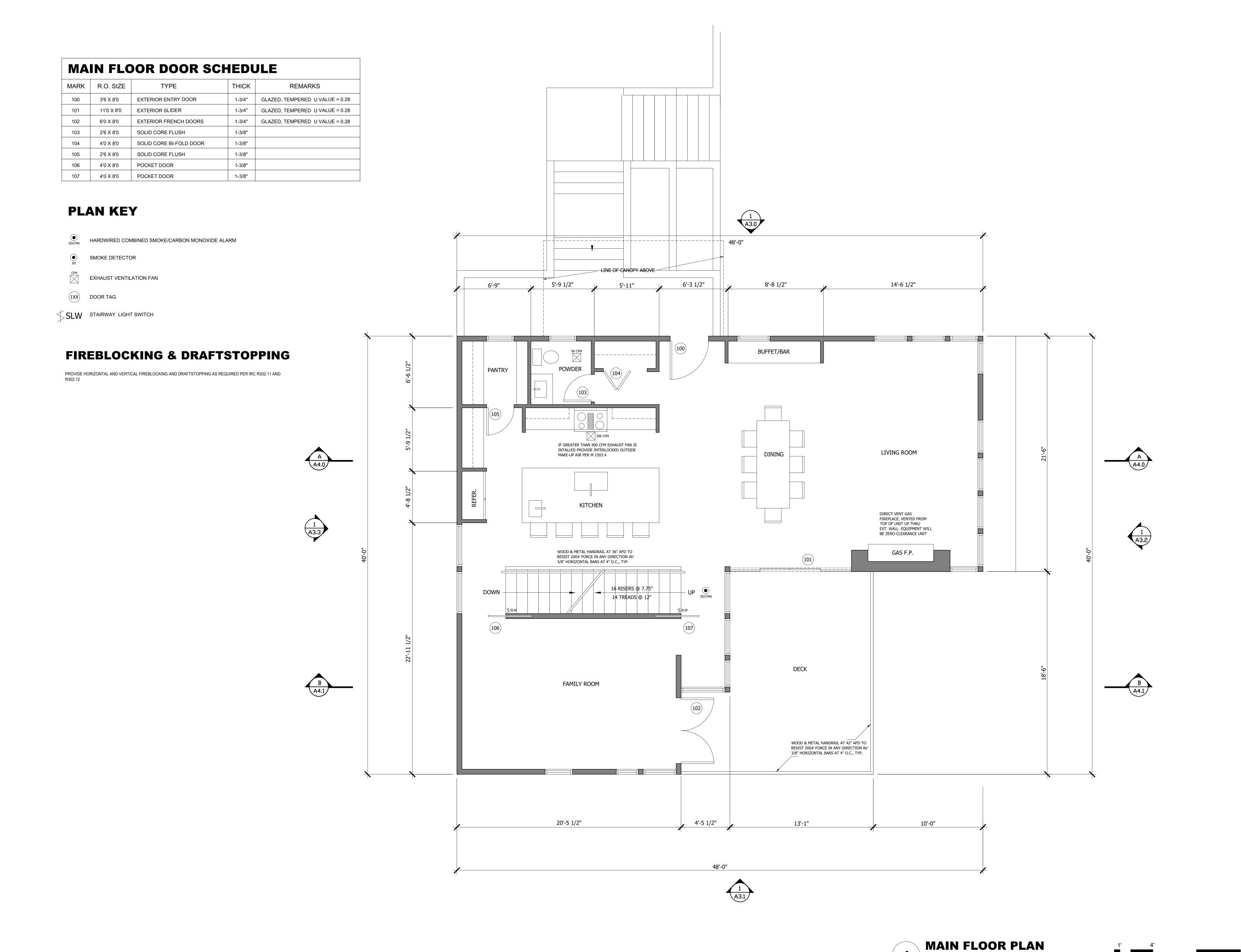
ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

LOWER FLOOR PLAN

SHEET NUMBER





5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

DDO1FCT

STATEST SEAND WA 98/20

ISSUE INFORMATION

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SHEET TITLE

MAIN FLOOR PLAN

SHEET NUMBER

SEC	COND	FLOOR DOOR	SCH	EDULE
MARK	R.O. SIZE	TYPE	THICK	REMARKS
200	3'0 X 7'0	SOLID CORE FLUSH	1-3/8"	
201	2'10 X 7'0	SOLID CORE FLUSH	1-3/8"	
202	2'10 X 7'0	SOLID CORE FLUSH	1-3/4"	
203	2'6 X 7'0	SOLID CORE FLUSH	1-3/8"	
204	2'6 X 7'0	SOLID CORE FLUSH	1-3/8"	
205	2'6 X 7'0	SOLID CORE FLUSH	1-3/8"	
206	4'0 X 7'0	POCKET DOOR	1-3/8"	
207	3'0 X 7'0	POCKET DOOR	1-3/8"	
208	2'6 X 7'0	POCKET DOOR	1-3/8"	
209	5'0 X 7'0	SOLID CORE BI-FOLD CLOSET	1-3/8"	
210	10'0 X 8'0	EXTERIOR SLIDER		GLAZED, TEMPERED U VALUE =0.28

PLAN KEY

HARDWIRED COMBINED SMOKE/CARBON MONOXIDE ALARM

HARDWIRED SMOKE DETECTOR

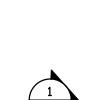
EXHAUST VENTILATION FAN

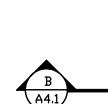
2XX) DOOR TAG

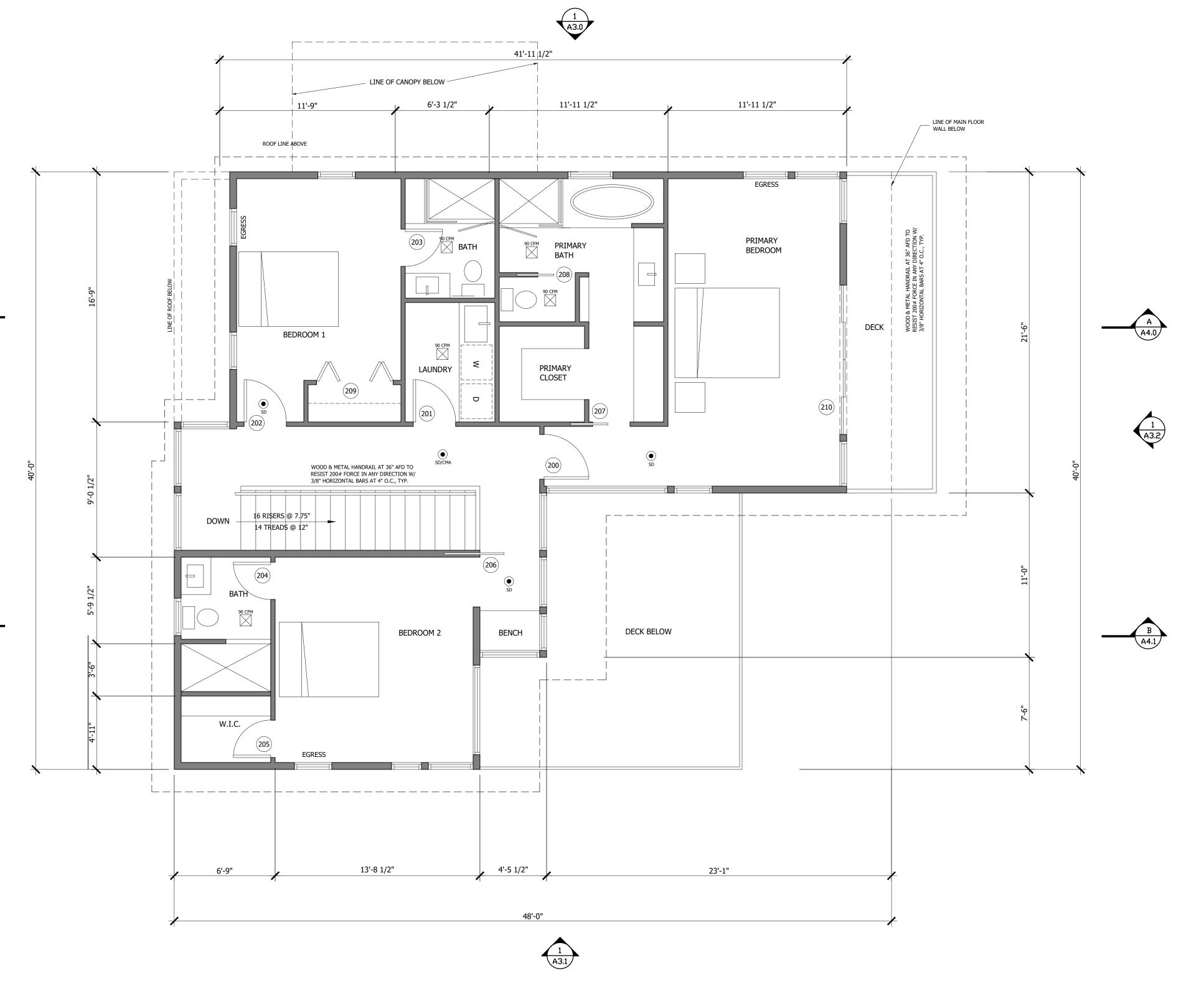
SLW STAIRWAY LIGHT SWITCH

FIREBLOCKING & DRAFTSTOPPING

PROVIDE HORIZONTAL AND VERTICAL FIREBLOCKING AND DRAFTSTOPPING AS REQUIRED PER IRC R302.11 AND R302.12







UPPER LEVEL PLAN



SEAL

5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

CLEST STREET
92XX SE 76TH STREET
MERCER ISLAND, WA 98040

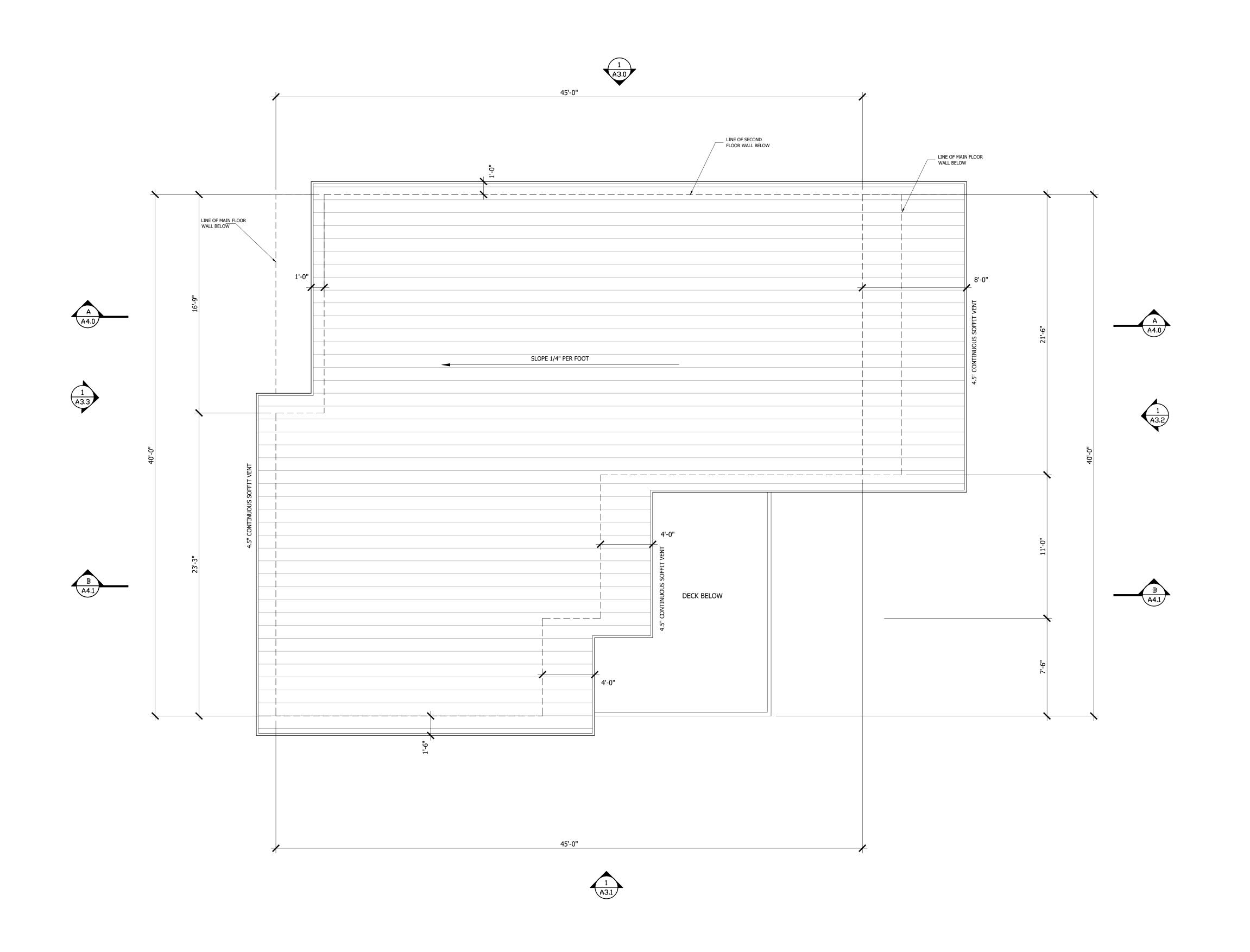
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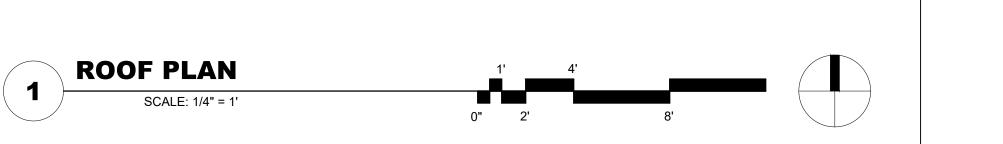
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SHEET TITLE

SECOND FLOOR PLAN

SHEET NUMBER







5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

ROOF PLAN

SHEET NUMBER

WII	WINDOW SCHEDULE				
MARK	R.O. SIZE	TYPE	QTY	U VALUE	REMARKS
Α	3'0 X 9'0	CASEMENT/FIXED	10	0.28	TEMPERED LOWER LITE
В	2'6 X 9'0	CASEMENT/ FIXED	2	0.28	TEMPERED LOWER LITE
С	3'0 X 5'6	CASEMENT	1	0.28	
D	2'6 X 5'6	CASEMENT	3	0.28	
	2'0 X 9'0	FIXED	1	0.28	TEMPERED
F	3'6 X 9'0	FIXED	1	0.28	TEMPERED
G	2'6 X 9'0	FIXED	1	0.28	TEMPERED
Н	3'4 X 9'0	FIXED	1	0.28	TEMPERED
I	3'10 X 9'0	FIXED	1	0.28	TEMPERED
J	3'0 X 5'0	CASEMENT	3	0.28	
K	2'6 X 5'0	CASEMENT	3	0.28	
L	2'0 X 5'0	FIXED	1	0.28	
М	2'6 X 4'0	CASEMENT	3	0.28	
N	3'0 X 6'6	FIXED	1	0.28	
0	3'6 X 7'6	FIXED	3	0.28	
Р	11'0 X '0	FIXED	1	0.28	
Q	3'0 X 7'6	CASEMENT	2	0.28	
R	2'6 X 7'6	FIXED	1	0.28	TEMPERED
S	3'4 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
Т	3'10 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
U	3'0 X4'6	CASEMENT	2	0.28	
V	3'0 X 4'0	CASEMENT	2	0.28	
1	3'6 X 4'0	CASEMENT	1	0.28	







5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

TESHIRET
9271 SE 76TH STREET

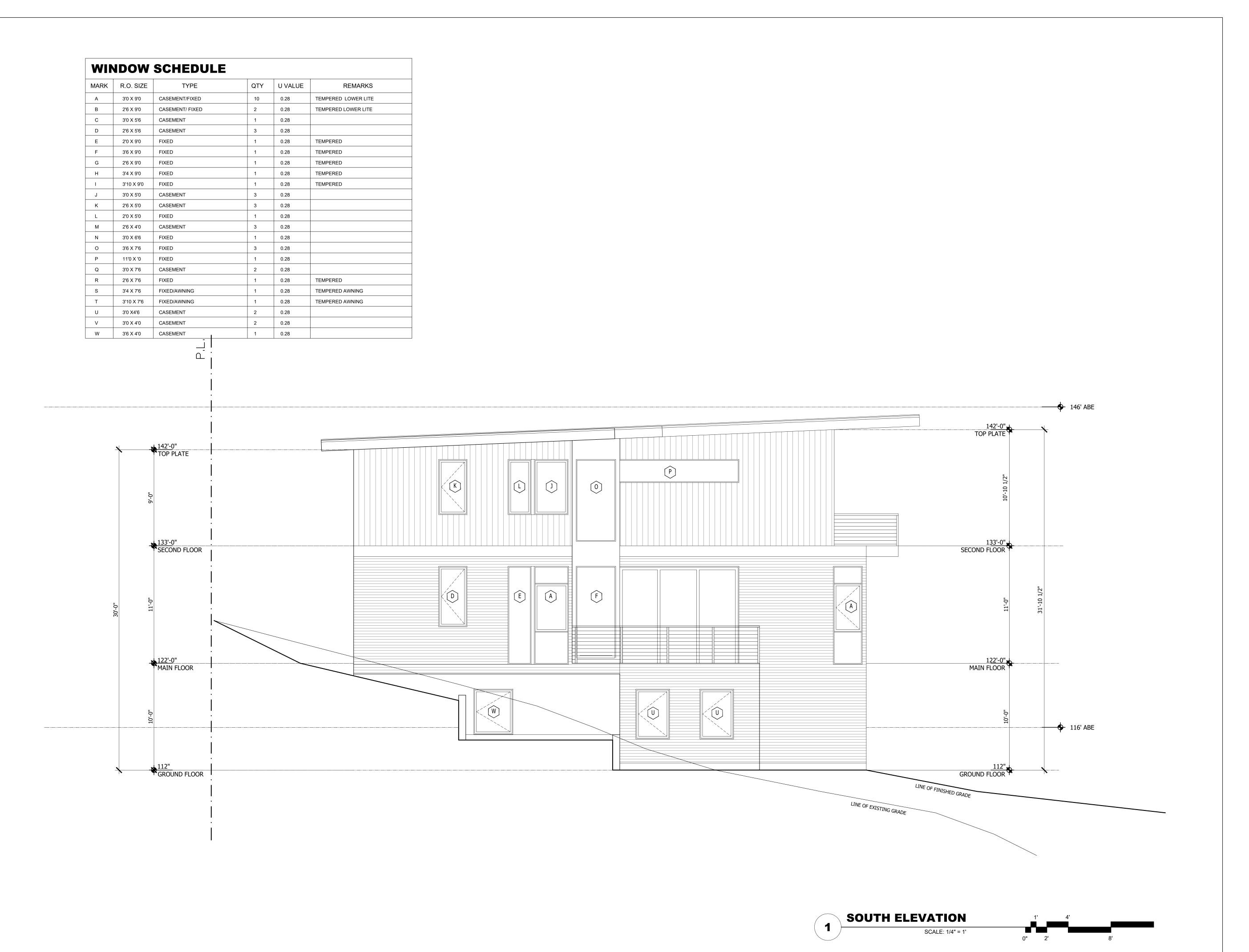
ISSUE INFORMATION

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SHEET TITLE

NORTH ELEVATION

SHEET NUMBER





EAL

75530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

ST ESTH STREET MERCER ISLAND, WA 98040

ISSUE INFORMATION

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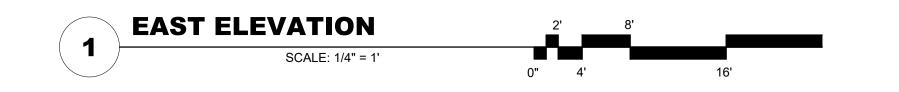
SHEET TITLE

SOUTH ELEVATION

SHEET NUMBER

WII	NDOW	SCHEDULE			
MARK	R.O. SIZE	TYPE	QTY	U VALUE	REMARKS
Α	3'0 X 9'0	CASEMENT/FIXED	10	0.28	TEMPERED LOWER LITE
В	2'6 X 9'0	CASEMENT/ FIXED	2	0.28	TEMPERED LOWER LITE
С	3'0 X 5'6	CASEMENT	1	0.28	
D	2'6 X 5'6	CASEMENT	3	0.28	
E	2'0 X 9'0	FIXED	1	0.28	TEMPERED
F	3'6 X 9'0	FIXED	1	0.28	TEMPERED
G	2'6 X 9'0	FIXED	1	0.28	TEMPERED
Н	3'4 X 9'0	FIXED	1	0.28	TEMPERED
1	3'10 X 9'0	FIXED	1	0.28	TEMPERED
J	3'0 X 5'0	CASEMENT	3	0.28	
K	2'6 X 5'0	CASEMENT	3	0.28	
L	2'0 X 5'0	FIXED	1	0.28	
М	2'6 X 4'0	CASEMENT	3	0.28	
N	3'0 X 6'6	FIXED	1	0.28	
0	3'6 X 7'6	FIXED	3	0.28	
Р	11'0 X '0	FIXED	1	0.28	
Q	3'0 X 7'6	CASEMENT	2	0.28	
R	2'6 X 7'6	FIXED	1	0.28	TEMPERED
S	3'4 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
Т	3'10 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
U	3'0 X4'6	CASEMENT	2	0.28	
V	3'0 X 4'0	CASEMENT	2	0.28	
W	3'6 X 4'0	CASEMENT	1	0.28	







5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

2201507

CT ESTH STREET 9271 SE 76TH STREET MERCER ISLAND, WA 98040

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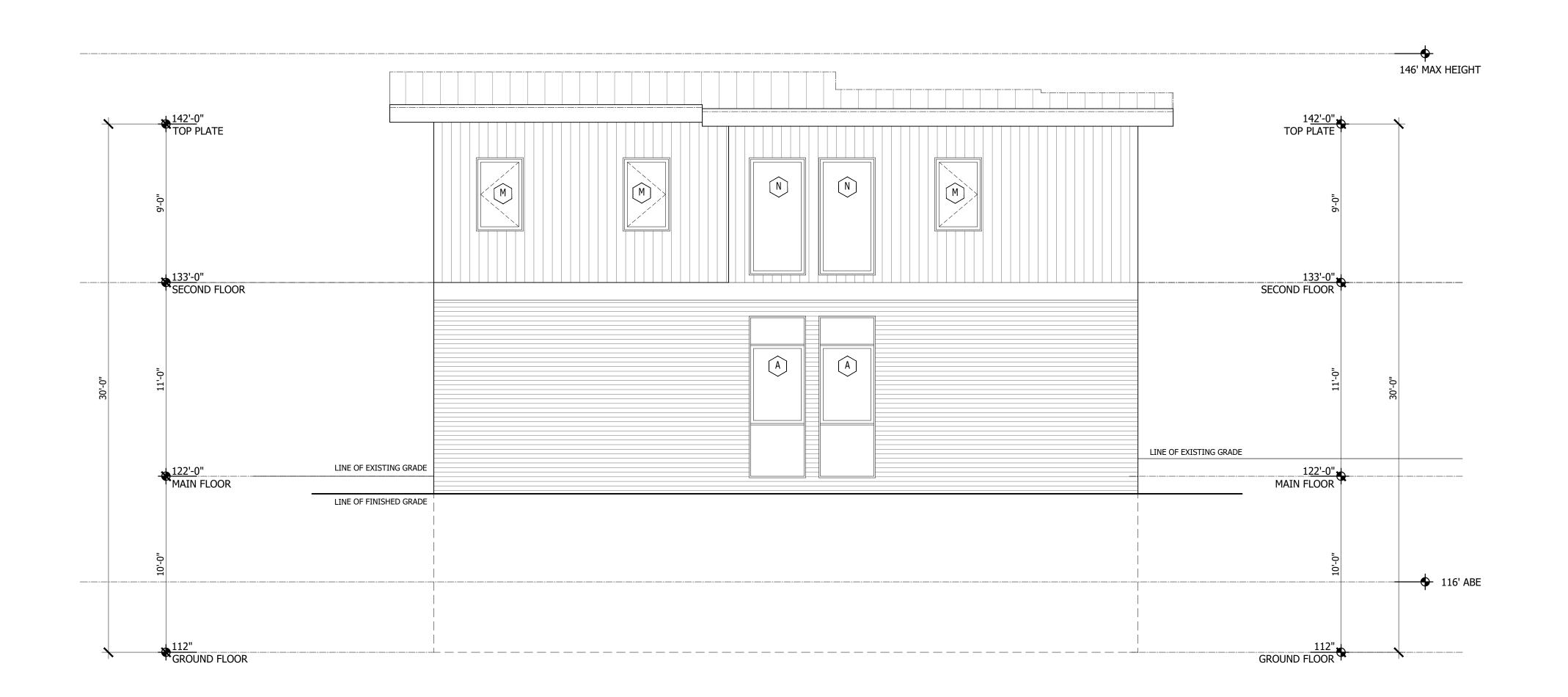
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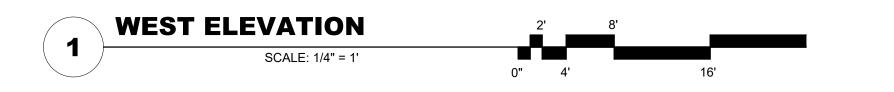
SHEET TITLE

EAST ELEVATION

SHEET NUMBER

WII	NDOW	SCHEDULE			
MARK	R.O. SIZE	TYPE	QTY	U VALUE	REMARKS
Α	3'0 X 9'0	CASEMENT/FIXED	10	0.28	TEMPERED LOWER LITE
В	2'6 X 9'0	CASEMENT/ FIXED	2	0.28	TEMPERED LOWER LITE
С	3'0 X 5'6	CASEMENT	1	0.28	
)	2'6 X 5'6	CASEMENT	3	0.28	
	2'0 X 9'0	FIXED	1	0.28	TEMPERED
	3'6 X 9'0	FIXED	1	0.28	TEMPERED
3	2'6 X 9'0	FIXED	1	0.28	TEMPERED
1	3'4 X 9'0	FIXED	1	0.28	TEMPERED
	3'10 X 9'0	FIXED	1	0.28	TEMPERED
	3'0 X 5'0	CASEMENT	3	0.28	
	2'6 X 5'0	CASEMENT	3	0.28	
	2'0 X 5'0	FIXED	1	0.28	
	2'6 X 4'0	CASEMENT	3	0.28	
	3'0 X 6'6	FIXED	1	0.28	
	3'6 X 7'6	FIXED	3	0.28	
	11'0 X '0	FIXED	1	0.28	
	3'0 X 7'6	CASEMENT	2	0.28	
2	2'6 X 7'6	FIXED	1	0.28	TEMPERED
	3'4 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
	3'10 X 7'6	FIXED/AWNING	1	0.28	TEMPERED AWNING
	3'0 X4'6	CASEMENT	2	0.28	
	3'0 X 4'0	CASEMENT	2	0.28	
,	3'6 X 4'0	CASEMENT	1	0.28	







5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

CHESTALRE 9271 SE 76TH STREET MERCER ISLAND, WA 98040

ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

WEST ELEVATION

SHEET NUMBER

F1 TYPICAL SLAB ON GRADE FLOOR
FINISH FLOOR PER PLANS
UNDERLAYMENT
CONCRETE SLAB PER STRUCTURAL
R-10 RIGID INSULATION ENTIRE SLAB
6 MIL. VAPOR BARRIER

F2 FLOOR OVER UNHEATED GARAGE
FINISH FLOOR PER PLANS
UNDERLAYMENT
3/4 " PLYWOOD SUBFLOOR.
R-38 BATT INSULATION
FLOOR JOISTS PER STRUCTURAL

2 LAYERS 1/2" TYPE "X" G.W.B.

6" FREE DRAINING MATERIAL

F3 FLOOR OVER HEATED SPACE
FINISH FLOOR PER PLANS
UNDERLAYMENT
3/4 " PLYWOOD SUBFLOOR.
FLOOR JOISTS PER STRUCTURAL
5/8" G.W.B.

W1 BELOW GRADE WALL

DRAINAGE MAT SPRAY ON WATERPROOFING CONCRETE WALL PER STRUCTURAL 2 X 4 STUDS @ 16" O.C. SET OFF FROM CONCRETE R-21 BATT INSULATIONG.W.B. 5/8" GWB

W2 TYPICAL EXTERIOR WALL
WALL FINISH PER ELEVATIONS
2 LAYERS 60 MIN. BUILDING PAPER
PLYWOOD SHEATHING PER STRUCTURAL
2 X 6 STUDS @ 16" O.C.

R-21 KRAFT FACED BATT INSULATION

W3 TYPICAL INTERIOR WALL
5/8" GWB
2 X 4 STUDS @ 16" O.C.
5/8" GWB

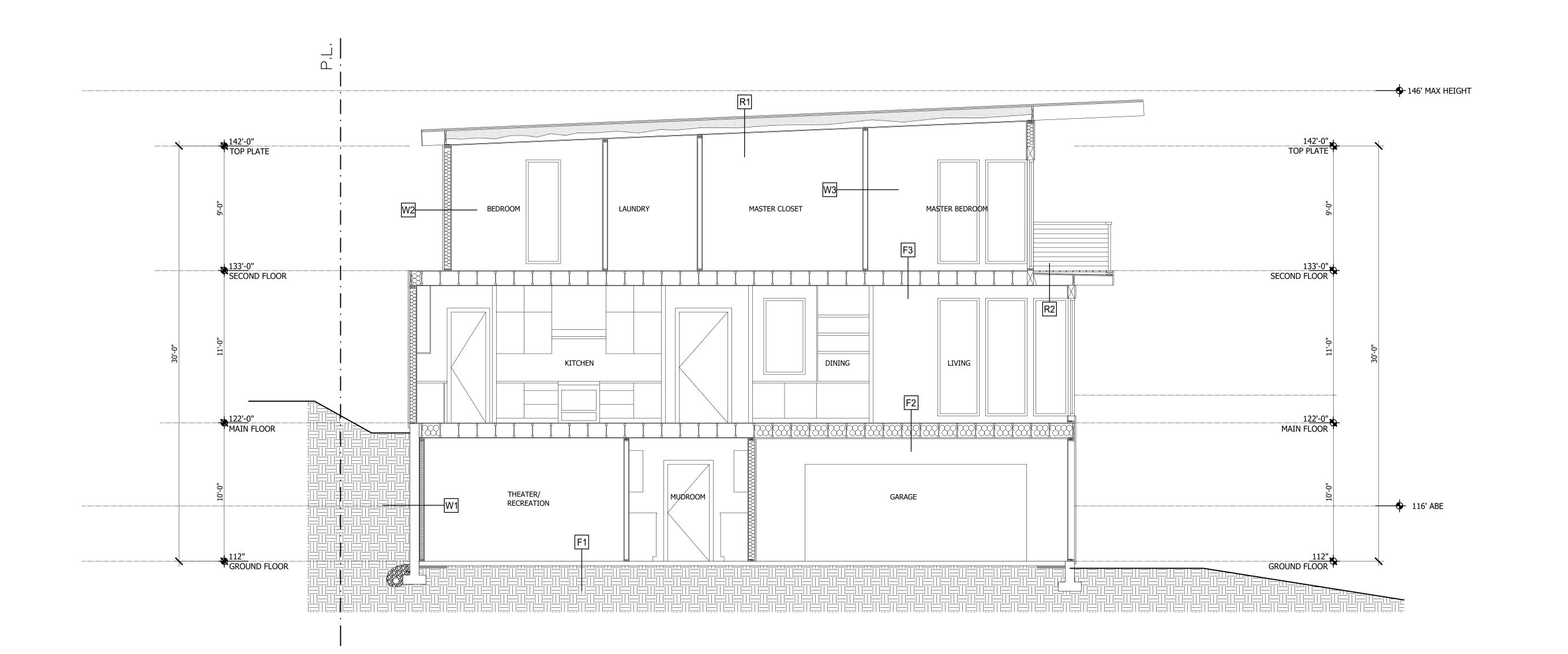
5/8" G.W.B.

R1 TYPICAL SLOPED ROOF

5/8" G.W.B.

STANDING SEAM METAL ROOFING
30# BUILDING FELT
SHEATHING PER STRUCTURAL
ROOF JOISTS PER STRUCTURAL
R-14 CLOSED CELL SPRAY FOAM INSULATION AND
R-25 BATT NSULATION (MIN R-49 COMBINED)
5/8" GWB

FLAT ROOF DECK OVER HEATED SPACE
FINISH DECKING PER PLANS
TAPERED 2X SLEEPERS
MEMBRANE ROOFING
SHEATHING PER STRUCTURAL
R-14 CLOSED CELL SPRAY FOAM INSULATION AND
R-25 BATT NSULATION (MIN R-49 COMBINED)





EAL

5530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

STISE 76TH STREET MERCER ISLAND, WA 98040

ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

SECTION A-A

SHEET NUMBER

A-4.0

F1 TYPICAL SLAB ON GRADE FLOOR

FINISH FLOOR PER PLANS
UNDERLAYMENT
CONCRETE SLAB PER STRUCTURAL
R-10 RIGID INSULATION ENTIRE SLAB
6 MIL. VAPOR BARRIER
6" FREE DRAINING MATERIAL

F2 FLOOR OVER UNHEATED GARAGE

FINISH FLOOR PER PLANS
UNDERLAYMENT
3/4 " PLYWOOD SUBFLOOR.
R-38 BATT INSULATION
FLOOR JOISTS PER STRUCTURAL
2 LAYERS 1/2" TYPE "X" G.W.B.

F3 FLOOR OVER HEATED SPACE

FINISH FLOOR PER PLANS UNDERLAYMENT 3/4 " PLYWOOD SUBFLOOR. FLOOR JOISTS PER STRUCTURAL 5/8" G.W.B. W1 BELOW GRADE WALL

DRAINAGE MAT SPRAY ON WATERPROOFING CONCRETE WALL PER STRUCTURAL 2 X 4 STUDS @ 16" O.C. SET OFF FROM CONCRETE R-21 BATT INSULATIONG.W.B. 5/8" GWB

W2 TYPICAL EXTERIOR WALL

WALL FINISH PER ELEVATIONS
2 LAYERS 60 MIN. BUILDING PAPER
PLYWOOD SHEATHING PER STRUCTURAL
2 X 6 STUDS @ 16" O.C.
R-21 KRAFT FACED BATT INSULATION
5/8" G.W.B.

W3 TYPICAL INTERIOR WALL

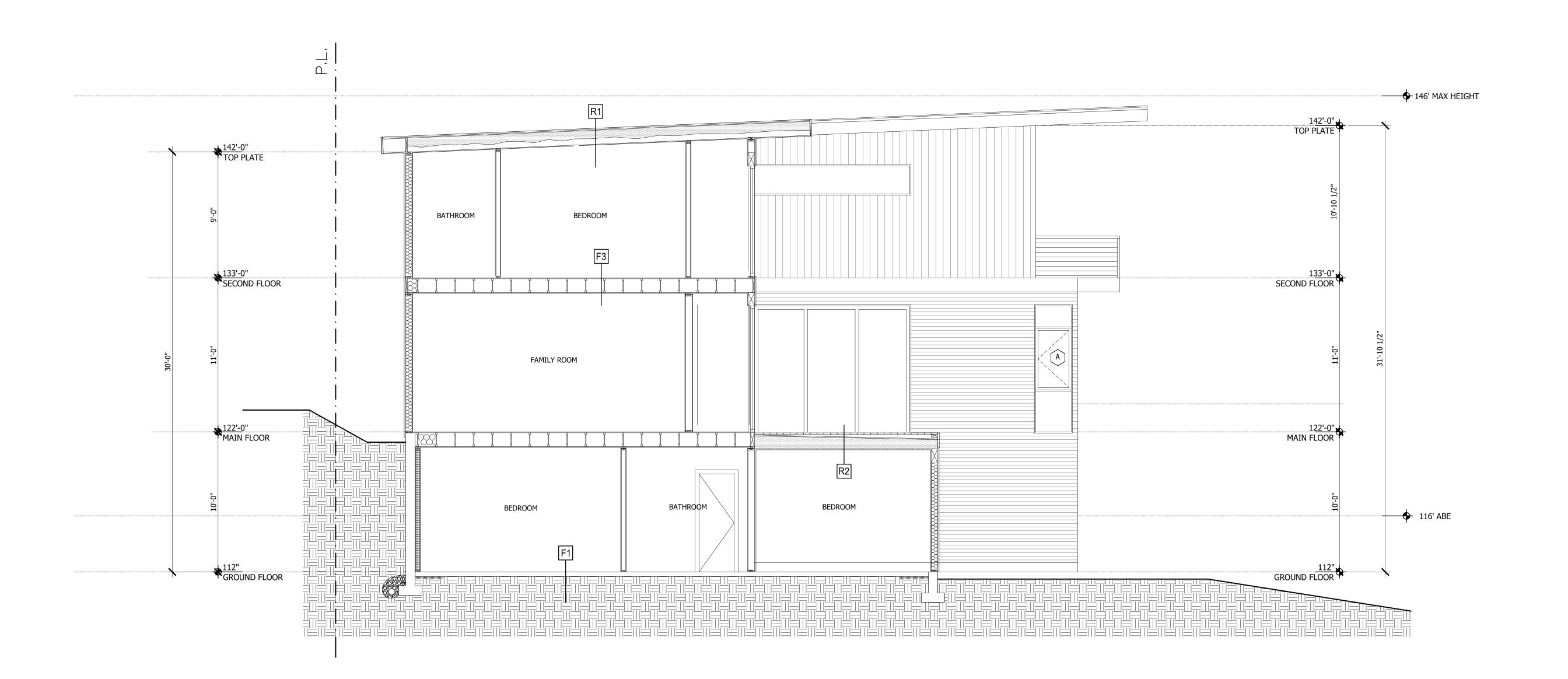
5/8" GWB 2 X 4 STUDS @ 16" O.C. 5/8" GWB R1 TYPICAL SLOPED ROOF

STANDING SEAM METAL ROOFING
30# BUILDING FELT
SHEATHING PER STRUCTURAL
ROOF JOISTS PER STRUCTURAL
R-14 CLOSED CELL SPRAY FOAM INSULATION AND
R-25 BATT NSULATION (MIN R-49 COMBINED)
5/8" GWB

R2 FLAT ROOF DECK OVER HEATED SPACE

FINISH DECKING PER PLANS
TAPERED 2X SLEEPERS
MEMBRANE ROOFING
SHEATHING PER STRUCTURAL
R-14 CLOSED CELL SPRAY FOAM INSULATION AND
R-25 BATT NSULATION (MIN R-49 COMBINED)
5/8" G.W.B.

SECTION B-B





SEAL

75530 REGISTERED ARCHITECT

ALLAN BLAIN CLARK STATE OF WASHINGTON

CONSULTANT

DDO1ECT

ST EST SE 76TH STREET WERCER ISLAND, WA 98040

ISSUE INFORMATION

09.15.2022 PERMIT REVISIONS

SHEET TITLE

SECTION B-B

SHEET NUMBER

A-4.1

ABBREVIATIONS ANCHOR BOLT AB ACI AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC APPROX **APPROXIMATE** ANTHONY POWER BEAM ARCH **ARCHITECTURAL** ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS BLDG BUILDING **BUILT UP COLUMN** BUC CANT **CANTILEVER** CLR CLEAR, CLEARANCE **CONCRETE MASONRY UNIT** CNCR CONCRETE COL COLUMN **CENTER LINE** CI **CONSTRUCTION JOINT** NOMINAL DIAMETER OF BAR DBL DOUBLED DBA DEFORMED BAR ANCHOR DIA, Ø DIAMETER DIM DIMENSION DEAD LOAD **EACH FACE ENGR ENGINEER** EACH WAY **EXPANSION ANCHOR BOLT** EXP AB FLITCH BEAM **FOUNDATION** FINISHED FLOOR **FLOOR FLANGE FOOT OR FEET** GALVANIZED (HOP DIP) HORIZ HORIZONTAL HEIGHT INTERNATIONAL BUILDING CODE **INSULATION** INSUL JOINT KIP(S) THOUSAND POUNDS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH ANGLE OR L-SHAPE LWR **IOWFR** LB(S) POUND(S), FORCE **DEVELOPMENT LENGTH** LONG LIVE LOAD LONGITUDINAL LONG MATERIAL **MAXIMUM** MISC MISCELLANEUS NTS **NOT TO SCALE** 0 TO 0 OUT TO OUT ON CENTER OUTSIDE DIAMETER POUNDS FORCE PER LINEAR FOOT PROJ **PROJECTION** POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH STD STANDARD SW SHEAR WALL TOP OF CONCRETE TOP OF TYP TYPICAL TOP AND BOTTOM **UNLESS NOTED OTHERWISE** UNO UWA **UNDER WALL ABOVE** WITH

DECIGN CRITERIA

DESIGN CODE	2018 INTERNATIONAL BUILDING CO
BUIDING RISK CATEGORY	CATEGORY II
DEAD LOAD	
FLOOR	30 PSF
ROOF	15 PSF
LIVE LOAD	
RESIDENTIAL	40 PSF
ROOF LIVE LOAD	20 DCF
ROOF	20 PSF
ROOF SNOW LOAD DATA	
FLAT-ROOF SNOW LOAD, Pf	25 PSF
RAIN ON SNOW SURCHARGE	5 PSF
SNOW LOAD EXPOSURE FACTOR, Ce	В
SNOW LOAD IMPORTANCE FACTOR, IS	1.0
THERMAL FACTOR, Ct	1.0
SNOW DRIFTS	NO
WIND DESIGN DATA	
DESIGN WIND SPEED, Vdes (3-sec gust)	110 MPH
WIND EXPOSURE CATEGORY	C
WIND IMPORTANCE FACTOR, IW	1.0
TOPOGRAPHIC FACTOR, Ktz	B
INTERNAL PRESSURE COEF (GCPI)	0.18/-0.18
MWFRS	SIMPLIFIED METHOD - CH 26
WIND BASE SHEAR	TRANSVERSE: 11.5 KIPS LONGITUDINAL: 9.7 KIPS
FARTHOUANE REGION RATA	\bigwedge
EARTHQUAKE DESIGN DATA	
SEISMIC DESIGN CATEGORY SITE CLASS	D E
MAPPED SPECTRAL RESPONSE ACCELERATION	Ss=1.709 S1=1.094
DESIGN SPECTRAL RESPONSE ACCELERATION	
	Sds=1.139 Sd1=0.729
RESPONSE MODIFICATION FACTOR, R	6.5
OVERSTRENGTH FACTOR, OMEGA	3.0
REDUNDANCY FACTOR, RHO	1.0
SEISMIC RESPONSE COEFFICIENT, CS SEISMIC BASE SHEAR	0.1 17.1 KIPS
GEOTECHNICAL INFORMATION	
ALLOWABLE BEARING PRESSURE	2000 PSF
ALLOWABLE PASSIVE PRESSURE	300 PCF
ALLOWABLE COEFFICIENT OF SLIDING (FRICTION)	0.35
ACTIVE PRESSURE (EQUIV FLUID PRESSURE)	0.33
	140 DCE + 100 DSE
RESTRAINED WALLSUNRESTRAINED WALLS	140 PCF + 100 PSF 40 PCF
SEISMIC LOAD ON BELOW CRADE WALLS	
SEISMIC LOAD ON BELOW GRADE WALLS	QLI.
(UNIFORM PRESSURE EQUIV)	8H

GENERAL NOTES - STRUCTURAL DESIGN

1. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND FABRICATOR SHALL VERIFY ALL QUANTITIES, DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS FOR DIMENSIONS.

2. VERIFY REQUIREMENTS OF OTHER TRADES, (CIVIL, MECHANICAL, ELECTRICAL, ETC.), PRIOR TO PROCEEDING WITH FABRICATION OR INSTALLATION OF MATERIALS.

3. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR AND THEIR SUB-CONTRACTORS SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES AND SAFETY MEASURES INCLUDING, BUT NOT LIMITED TO, ADHERENCES TO ALL OSHA GUIDELINES. THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THESE PERSONS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. ANY PROPOSED APPLICATIONS OF CONSTRUCTION LOADS OR OF ANY LOADS TO THE PARTIALLY COMPLETED STRUCTURE WHICH EXCEED THE DESIGN LOADS WILL REQUIRE REANALYSIS AND POSSIBLE REDESIGN.

FOUNDATION

- 1. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS AND ASSUMPTIONS FROM IBC CHAPTER 18. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED FOR DESIGN.
- 2. ALL SUBGRADE UNDERCUT AND SOIL PREPARATION SHALL BE IN CONFORMANCE WITH IBC CHAPTER 18 RECOMMENDATIONS.
- 3. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
- 4. ANY FILL PLACED IN BUILDINGS PAD AREAS SHOULD CONSIST OF SELECT FILL. SELECT FILL SHOULD BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN COMPACTED TO DENSITIES OF 95 PERCENT OF STANDARD PROCTOR (ASTM D-698) AND AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 4 PERCENT ABOVE OPTIMUM MOISTURE CONTENT. THE SUBGRADE TO RECEIVE SELECT FILL SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR AND AT MOISTURE CONTENT BETWEEN OPTIMUM AND 4 PERCENT ABOVE OPTIMUM.
- 5. ALL EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW FROST DEPTH OF 12 INCHES. ALL INTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES BELOW TOP OF GRADE OR TOP OF SLAB.

REINFORCED CONCRETE

1. SUBMITTALS:

- PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR THE OWNER'S APPROVAL:
- A. SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCERTE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
- B.SUBMIT SHOP DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
- C.SUBMIT PRODUCT LITERATURE FOR ADMISTUES AND CURING COMPOUDNS PROPOSED FOR USE. D.SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.
- E. SUBMIT CONCRETE POUR PLAN INDICATING CONTROL JOINT LOCATIONS AND DETAILS.

2.	CONCRETE CONSTRUCTION STANDAREDS	
	A.IBC CHAPTER 19: CONCRETE	
	B. ACI 318 - LATEST EDITION	

- C.ACI 117 LATEST EDITION D.ACI 301 - LATEST EDITION
- 3. MAINTIAN THE FOLLOWING MIX REQUIREMENTS UNLESS NOTED OTHERWISE OR APPROVED BY THE

STRUCTURAL CONCRETE

î	DESCRIPTION	F'c	MAX W/C RATIO	AIR CONTENT
	FOOTINGS AND STEM WALLS	3,500	0.50	
	INTERIOR SLABS ON GRADE	3,500	0.50	
	EXTERIOR SLABS ON GRADE	4,500	0.45	5-7%
	SITE RETAINING WALLS	5,000	0.45	5-7%

- 4. CEMENT SHALL BE PORTLAND CEMENT PER ASTM C150, TYPE I/II.
- 5. AGGREGATE SHALL BE PER ASTM C33. PROVIDE MAX AGGREGATE SIZE OF 1 INCH FOR ALL CLASSES UNLESS
- 6. MAXIMUM ALLOWABLE FLY ASH CONTENT SHALL BE 20%. FLY ASH SHALL BE PER ASTM C618, TYPE C OR F 7. MAINTAIN SLUMP RANGE OF 5-7 WITHIN TOLERANCES PER ACI 301.
- 8. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS: IBC
- CHAPTER 19, ACI 318-14, ACI 301-05, ACI 117-10.
- 9. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNO. LONGITUDINAL BARS IN SHEAR WALLS SHALL
- CONFORM TO ASTM A706, GRADE 60 OR SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- A. WELDING OF THE REINFORCING BARS IS NOT PERMITTED. B. SUBMIT MILL CERTIFICATES INDICATING PHYSICAL AND CHEMICAL PROPERTIES. C.ACTUAL YIELD STRENGTH, BASED ON MILL TESTS, DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH
- D.THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN

BY MORE THAN 18000 PSI. (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL

10.REINFORCING PROTECTION FOR CAST-IN-PLACE CONCRETE AS PER ACI 318 UNLESS NOTED.

3" TO EARTH, ALL REINFORCING. A. CAST AGAINST AND PERMANENTLY EXPOSED B.FORMED SURFACES EXPOSED TO EARTH OR WEATHER. NO. 6 THRU NO. 18 BARS 1 1/2" NO. 5 BAR, W32 OR D31 WIRE AND SMALLER C.SURFACES NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.

1.BEAMS, COLUMNS, PRIMARY REINFORCEMENT, TIES STIRRUPS OR SPIRALS 1 1/2" 2. SLABS, WALLS & JOISTS -NO. 14 AND NO. 18 BARS 1 1/2" -NO. 11 BAR AND SMALLER 1 1/2"

11.BAR SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.

12.HORIZONTAL REINFORCING BARS SHALL BE LAPPED AROUND CORNERS OF INTERSECTING WALLS AND BEAMS. STANDARD ACI HOOKS AND BENDS SHALL BE USED.

13.TOP BARS: HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. MULTIPLE HORIZONTAL BARS IN A SINGLE VERTICAL PLANE SUCH AS COLUMN TIES OR HORIZONTAL BARS IN WALLS ARE NOT TOP BARS.

REINFORCED CONCRETE (CONT.)

14.UNLESS OTHERWISE DETAILED ON DRAWING SPLICES SHALL BE LOCATED SO THAT NO MORE THAN 50% OF BARS ARE SPLICED AT SAME LOCATION

15.FINISH CONCRETE SURFACES IN ACCORDANCE WITH THE FOLLOWING:

- A.INTERIOR SLABS ON GRADE: FINISH TO FLATNESS AND LEVELNESS OF F(f) = 30 AND F(1) = 20 IN ACCORDANCE WITH ACI 117.
- B.INTERIO FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR REMAIN EXPOSED: SMOOTH TROWEL FINISH.
- C.INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE: FLOAT FINISH.

16. CONCRETE QUALITY CONTROL AND STRENGTH TESTING REQUIREMENTS:

D.EXTERIOR SLABS: BROOM FINISH.

CONDUCT CONCRETE TESTING OF CYLINDERS IN ACCORDANCE WITH ACI. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. FOR EACH CLASS OF CONCRETE PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEROF, FOR ONE DAY PLACEMENT. DETERMINE SLUMP FOR EACH TEST AND DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.

- A. TESTING: CURE (4) SIX INCH X 12 INCH CYLINDERS FOR TESTING IN ACCORDANCE WITH ACI 301 SECTION 1.6.4.2. TEST ONE CYLINDER AT 7 DAYS, TEST TWO CYLINDERS AT 28 DAYS AND HOLD ONE CYLINDER IN RESERVE FOR USE AS DIRECTED BY THE ENGINEER. AFTER 56 DAYS, UNLESS NOTIFIED BY THE ENGINEER OTHERWISE, THE RESERVE CYLINDER MAY BE DISCARDED WIHTOUT BEING
- TESTED FOR SPECIMENS MEETING THE 28-DAY STRENGTH REQUIREMENTS.
- B.ACCEPTANCE: STRENGTH IS ACCEPTABLE WHEN THE FOLLOWING ARE MET. A "TEST" IS DEFINED AS THE AVERAGE OF TWO 6X12 CYLINDERS OR THREE 4X8 CYLINDERS AT THE SPECIFIED TEST AGE. THE AVERAGES OF ALL SETS OF 3 CONSECUTIVE STRENGTH TESTS EQUAL OR EXCEED THE
- SPECIFIED COMPRESSIVE STRENGTH.

NO STRENGTH TEST RESULT FALLS BELOW F'C BY MORE THAN 500 PSI.

TIMBER

SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE ALL MATERIAL, LAYOUT AND ASSEMBLY INFORMATION INCLUDING MEMBER MATERIAL, GRADES, SIZES, SPACING, CONNECTIONS, AND ASSEMBLY DETAILS. PROVIDE SHOP DRAWINGS FOR ENGINEER REVIEW FOR THE FOLLOWING ITEMS:

A. ALL ENGINEERED LUMBER MEMBERS: GLULAM MEMBERS, PSL MEMBERS, LVL MEMBERS, LSL MEMBERS, PREFABRICATED WOOD I-JOIST MEMBERS, WOOD TIE DOWN SYSTEMS.

2. TIMBER CONSTRUCTION STANDARDS

- A.IBC CHAPTER 23: WOOD B. NDS 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)
- C. APA PDS-99 PLYWOOD DESIGN SPECIFICATION
- D. ANSI/TPI 1 NATIONAL DEISGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES E. TRI DSB RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE
- CONNECTED TRUSSES F. BCSI GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, & BRACING OF METAL PLATE CONNECTED
- G. APA REPORT TT-045B MINIMUM NAIL PENETRATION FOR WOOD STRUCTURAL PANEL CONNECTIONS
- SUBJECT TO LATERAL LOADS

ALL SAWN LUMBER SHALL CONFORM TO GRADING RULES OF WWPA, NLGA OR WCLIB. GLULAMS SHALL CONFORM TO AITC 117-2004 AND ANSI/AITC A190.1. ALL GLULAM BEAMS, EXCEPT CONTINUOUS MULTISPAN BEAMS, SHALL BE CAMBERED TO 3000 FT RADIUS UNLESS NOTED OTHERWISE. ALL WOOD MATERIALS SHALL HAVE MINIMUM MOISTURE CONTENT OF 19% EXCEPT FOR PRESSURE TREATED SILL PLATES. ALL PRESSURE TREATED MEMBERS SHALL BE TREATED PER IBC SECTION 2304.12.

LUMBER GRADE TABLE

MEMBER	SIZE	SPECIES & GRADE
WALL STUDS	2x, 3x	Doug Fir Larch, No. 2
SILL PLATES	2x, 3x	PT Doug Fir Larch, No 2
POSTS	4x, 6x, 8x	Doug Fir Larch, No 2
FLOOR AND ROOF JOISTS	2x, 3x	Doug Fir Larch, No. 2
BEAMS	4x and up	Doug Fir Larch, No 1
GLULAMS -SINGLE SPAN	ALL	24F-V4
GLULAMEN-MULTI SPAN	ALL	24F-V8
GLULAM COLS	ALL	L2
TIMPERSTRAND LSL	ALL	1.5E, Fb=1700,Fv=400, Fc_parallel=1400
MICROLAM LVL	ALL	1.9E, Fb=2600,Fv=285, Fc_paralell=2510

4. STUD FRAMED WALLS

- A. ALL EXTERIOR WALLS WITH 10 FT HEIGHT OR LESS SHALL BE 2X6 @ 16" O.C. UNLESS NOTED OTHERWISE
- ON THE PLANS. REFER TO PLANS FOR WALLS GREATER THAN 10 FT HEIGHT. B. ALL INTERIOR BEARING WALLS SHALL BE MINIMUM 2X6 @ 16" O.C. UNLESS NOTED OTHERWISE ON THE
- C. AT ALL EXTERIOR AND LOAD BEARING WALL OPENINGS PROVIDE BUNDLED STUDS OF TWO TRIMMER AND ONE KING STUD AT EACH SIDE OF OPENING UNLESS NOTED OTHERWISE ON DRAWINGS.

5. BEAMS AND HEADERS

- A. THE CENTERLINE OF EACH BEAM SHALL ALIGN WITH THE CENTERLINE OF WALL AND STUDS BELOW. B. BEAMS MADE UP OF MULTIPLES OF 2xLUMBER SHALL BE BUILT AS FOLLOWS:
- 2-2x 16d NAILS @ 12" O.C. TOP AND BOTTOM- STAGGER EACH FACE
- 3-2x 20d NAILS @ 12" O.C. TOP AND BOTTOM- STAGGER EACH FACE
- 4-2x (OR MORE) 3/4"Ø BOLTS @ 12" O.C. TOP & BOTTOM, STAGGER -USE STD. WASHERS (EA. FACE).
- a. PROVIDE STANDARD NUTS & WASHERS AT 3/4" BOLTS (GALV. IF EXPOSED TO WEATHER) b. PROVIDE 2" EDGE DISTANCE FROM CENTERLINE OF BOLTS TO EDGE OF WOOD (TYPICAL)
- C. ALL BEAMS AND HEADERS SHALL BE SUPPORTED WITH EITHER BUNDLED STUDS PER SECTION 4 ABOVE OR WITH POST AND POST CAP CONNECTION PER THE PLANS. REFER TO SECTION 7 BELOW FOR MINIMUM POST CAP SIZES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

- A.BRIDGING: PROVIDE BRIDGEING AT ALL FLOOR JOISTS NOT TO EXCEED 8'-0" MAXIMUM OR IN COMPLIANCE WITH JOINT MANUFACTURER RECOMMENDATIONS FOR ENGINEERD JOISTS.
- B. DO NOT NOTCH OR CUT HOLES IN JOISTS WITHOUT ENGINEER APPROVAL.
- C. BLOCKING: AT BEARING WALLS PROVIDE 2-2x SOLID BLOCKING UNDER BEARING WALLS PERPENDICULAR AND PARALLEL TO THE JOIST DIRECTION.
- D. BLOCKING (TO MATCH JOIST DEPTH) SHALL BE PROVIDED AT EA. END & AT EACH SUPPORT OF JOIST, EXCEPT WHERE THE ENDS OF JOISTS ARE FASTENED TO A HEADER, RIM JOIST, OR AN ADJOINING STUD. SOLID BLOCKING SHALL BE A MIN. OF 2-2x MEMBERS.
- A. THRU BOLTS SHALL BE ASTM A-307 OR ASTM A-325. PROVIDE STANDARD WASHERS AT EACH FACE. B. FASTENERS, INCLUDING BOLTS, NUT, WASHERS, AND OTHER CONNECTORS SHALL BE HOT-DIPPED
- GALVANIZED WHERE EXPOSED TO WEATHER. C. CONNECTORS TO BE PROVIDED BY "SIMPSON" STRONG-TIE COMPANY, INC., SAN LEANDRO, CALIFORNIA, OR EQUAL. APPLY NAIL AT EACH NAIL HOLE WITH SIZE AND TYPE PER CONNECTOR
- D. AT COLUMNS 4" SQUARE AND LARGER, PROVIDE CAP & BASE CONNECTORS AS BELOW: E. COLUMN CAP CONNECTOR: PC SERIES (OR EPC AT BM ENDS), COLUMN BASE CONNECTOR: CB SERIES.
- F. USE RECOMMENDED COLUMN/BEAM MODEL NUMBERS.

TIMBER (CONT.)

- 8. HURRICANE CLIPS
- A. PROVIDE MINIMUM H2.5A AT EACH END OF EACH ROOF JOIST OR RAFTER WITH SPAN LESS THAN 20
- B. PROVIDE MINIMUM H6 OR (2) H2.5A AT EACH END OF EACH ROOF JOIST OR RAFTER WITH SPAN
- GREATER THAN 20 FEET.
- 9. FLOOR AND ROOF DECK
- C. FLOOR AND ROOF DECK SHALL BE APA RATED PLYWOOD OR OSB WITH THICKNESS AND NAIL SIZE AND SPACING PER THE PLANS.
- D. PLACE PANELS IN A STAGGERED PATTERN. GLUE & NAIL TO FRAMING MEMBERS. GLUE SHALL
- CONFORM TO APA SPEC. AF6-01, AND APPLIED PER MANUF. SPECIFICATIONS. E. ORIENT SHEATHING PANELS WITH THE LONG DIMENSION PERPENDICULAR TO RAFTERS.
- F. PLYWOOD CLIPS SHALL BE INSTALLED @ ROOF DECKING TO RESULT IN A 1/8" GAP BETWEEN PANEL EDGES. PROVIDE 1 CLIP PER JOIST SPACING SPAN. USE "SIMPSON" PSCL, OR APPROVED EQUAL. MATCH CORRESPONDING PLYWOOD THICKNESS.

10. MISCELLANEOUS

A. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED LUMBER.

11. PREFABRICATED WOOD FRAMING MEMBERS

- A. PREFABRICATED WOOD FRAMING MEMBERS INCLUDE WOOD TRUSSES, TJI'S, ASI'S OR OTHER SIMILAR PREFABRICATED MEMBERS USED IN LIEU OF SAWN WOOD JOISTS, OR RAFTERS.
- B. PRODUCT DESIGN SHALL BE BASED UPON ACTUAL BUILDING DEAD LOADS, CODE SPECIFIED LIVE LOADS, AND STANDARDS OUTLINED IN THE BUILDING CODE FOR WINDSTORM RESISTANT CONSTRUCTION. TRUSSES SHALL BE DETAILED AND DESIGNED BY THE MANUFACTURER, UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. UPON REQUEST, THE MANUFACTURER SHALL SUBMIT CALCULATIONS AND/OR SHOP DRAWINGS TO THE
- ARCHITECT/ENGINEER OF RECORD FOR REVIEW. C. CONTRACTOR SHALL PROVIDE TEMPORARY AND PERMANENT LATERAL BRACING OF ALL FABRICATED TRUSSED MEMBERS PER THE DETAILING AND DESIGN OF THE TRUSS MANUFACTURER. TRUSSES SHALL
- BE DETAILED AND DESIGNED BY THE MANUFACTURER. D. PROVIDE TEMPORARY SHORING WHERE SHEET ROCK AND OTHER CONSTRUCTION MATERIALS ARE BEING TEMPORARILY STORED. IF TJI'S ARE BEING UTILIZED, KEEP THE MEMBERS ABSOLUTELY DRY.

- 12. WOOD CONNECTORS, FASTENERS, NAILS, AND BOTS A, ALL WOOD CONNECTORS, HANGERS, CLIPS, HOLD-DOWN, POST CAPS AND OTHER WOOD CONNECTIONS SHALL BE SIMPSON STRONG TIE AS SPECIFIED IN THEIR LATEST WOOD CONENCTORS CATALOG. ALTERNATE CONNECTORS BY OTHER MANUFACTUERS MAY BE USED IF SUBMITTED FOR APPROVAL TO EOR. ALL CONNECTORS SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS WITH ALL INDICATED FASTENERS. WHERE MULTIPLE OPTIONS OR SIZES EXIST FOR FASTENERS USE THE LARGEST NUMBER OF FASTENERS AND THE LARGEST SIZE OF FASTENERS UNLESS NOTED OTHERWISE ON THE PLANS. ALL CONNECTORS EXPOSED TO WEATHER SHALL BE GALVANIZED OR FINISHED WITH
- SIMPSON ZMAX FINISH. B. NAILS, SCREWS, AND BOLTS SHALL CONFORM TO IBC SECTION 2304.10 CONNECTORS AND FASTERNERS. ALL FASTENERS ATTACHED TO PRESSURE TREATED LUMBER SHALL HAVE SIMILAR CORROSION PROTECTION MATCHING THE WOOD TREATMENT. PROVIDE WASHERS AT ALL BOLT HEADS AND NUTS. ALL NAILS SHALL BE FULL LENGTH COMMON UNLESS NOTED OTHERWISE EXCEPT 16D SHALL BE
- C. ALL LAG BOLTS SHALL BE ASTM A307

STRUCTURAL STEEL PILES

- 1. SUBMITTALS:
- A.SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH AISC 360 SECTION M.1

- AND AISC 303 SECTION 4. B.SUBMIT WELDERS CERTIFICATES SHOWING QUALIFICATION WITHIN PAST 12 MONTHS.
- C. SUBMIT WELDING PROCEDURE SPECIFICATIONS. D.PROVIDE MILL TEST REPORTS (MTR) OR AFFIDAVIT INDICATING THE STEEL MEETS THE REQUIREMENTS
- OF THE GRADES SPECIFIED. E.SUBMIT ICC REPORTS FOR ALL POST INSTALLED STEEL ANCHORS.

F.SUBMIT FABRICATION SHOP QA/QC PLAN FOR APPROVAL

B.STRUCTURAL PIPE PILES "P"

THE CODE OF STANDARD PRACTICE.

- 2. STEEL CONSTRUCTION STANDARDS: A.IBC CHAPTER 22 "STEEL"
- B.AISC MANUAL OF STEEL CONSTRUCTION FIFTEENTH EDITION
- C. AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BRIDGES D. AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
- E.AISC 348-14 SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
- F. AWS D1.1-2020 STRUCTURAL WELDING CODE

THE PLANS.

- A.STRUCTURAL BARS AND PLATES "PL" ASTM A572, Fy=50ksi

ASTM A53, Fy=35ksi

- 4. ALL CONSTRUCTION, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATION SECTION M2, FABRICATION AND M4, ERECTION, AND AISC CODE SECTIONS 6 AND 8 FOR FABRICATION & DELIVERY AND
- 5. WEATHER PROOFING: ALL STEEL PILES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. WELD

JOINTS SHALL BE COLD GALVANIZED IN ACCORDANCE WITH ASTM A780 MATERIALS AND PROCEDURES.

- 6. ALL BOLTS SHALL BE INSTALLED TO SNUG TIGHT CONDITION PER RCSC, UNLESS NOTED OTHERWISE ON
- 7. ALL WELDING SHALL CONFORM TO AWS D1.1 AND WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH

AWS REQUIREMENTS. USE E70XX ELECTRODES UNLESS NOTED OTHERWISE.

8. BRACING AND SAFETY: ALL FRAMING AND CONSTRUCTION SHALL BE TEMPORARILY BRACED AND SAFETY PROTECTION PROVIDED AS REQUIRED BY AISC SPECIFICATION SECTION M4.2 AND IN ACCORDANCE WITH

JOBSITE ADDRESS: 7615 E. MERCER WAY MERCER ISLAND, WA 98040 **ARCHITECT:**

Merrell Design Services

Practical Structural Solutions

MERRELL DESIGN SERVICES PLLC

Nine Mile Falls, Washington 99026

509-998-7410

TJ@MDSstructural.com

Formworks Design Build

PROJECT:

CHESHIRE

7434 SE 71st St Mercer Island, WA 98040

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21-045

SHEET TITLE: GENERAL NOTES

FOUNDATION PLAN NOTES:

- VERIFY LOCATIONS OF NEW COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS
 BEFORE PLACING FOUNDATIONS. PROVIDE BLOCKOUTS FOR PLUMBING, HVAC, AND SPECIAL
 EQUIPMENT AS SHOWN ON ARCHITECTURAL AND MEP PLANS.
- 2. TOP OF SLAB ELEVATION ASSUMED AT 112'-0" EXCEPT AS NOTED. REFERENCE CIVIL AND ARCHITECTURAL PLANS FOR ACTUAL TOP OF SLAB ELEVATION. REFERENCE ARCHITECTURAL DRAWINGS FOR DAMPPROOFING AND WATERPROOFING REQUIREMENTS FOR SLAB AND BASEMENT WALLS.
- 3. DESIGN SOIL BEARING PRESSURE OF 2000 PSF BASED ON IBC 2018 TABLE 1806.2.
- 4. ALL EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW THE MINIMUM FROST DEPTH OF 12" BELOW FINISHED GRADE. ALL INTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES BELOW TOP OF SLAB.
- 5. ALL FOOTINGS AND SLABS SHALL BEAR ON COMPETANT NATIVE SOIL OR STRUCTURAL FILL. ALL FILL SHALL BE COMPACTED IN LIFTS OF 8 INCHES MAXIMUM AND COMPACTED TO MINIMUM 95% OF MODIFIED PROCTOR.
- 6. PROVIDE PRESSURE TREATED WOOD AT ALL LOCATIONS WHERE IN CONTACT WITH CONCRETE, WITHIN 8" OF EXPOSED GRADE, OR NOT OTHERWISE WEATHERPROOFED.
- 7. REFERENCE HOLD-DOWN SHEDULE AND SHEAR WALL SCHEDULE FOR HOLD-DOWN ANCHOR AND SILL PLATE ANCHORAGE REQUIREMENTS.
- 8. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LEGEND, AND ABBREVIATIONS.

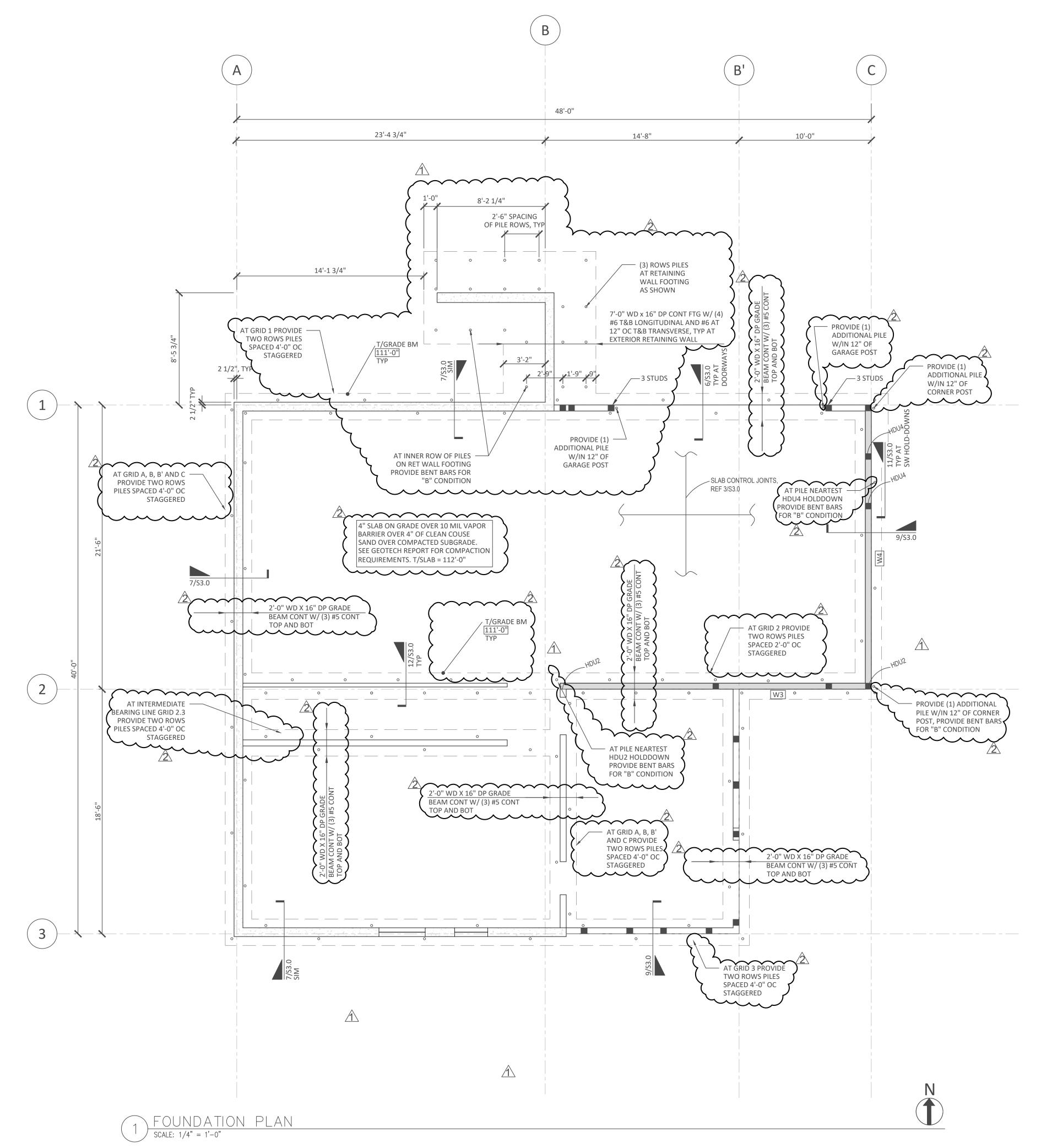
STUD AND SHEAR WALL PLAN NOTES:

- ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL BE PER THE PLANS OR STUD WALL SCHEDULE, UNLESS NOTED OTHERWISE. STUDS SHALL ALIGN NOMINALLY FLOOR TO FLOOR WITH STUDS, JOISTS, AND TRUSSES. ATTACH SILL PLATES TO CONCRETE, RIM BOARD, OR TOP PLATE PER SCHEDULE, UNO IN SHEAR WALL SCHEDULE.
- 2. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LUMBER GRADES, LEGEND, AND ABBREVIATIONS
- 3. PROVIDE MINIMUM BLOCKING AT 5'-0" OC MAX FOR ALL BEARING AND EXTERIOR WALLS. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL BLOCKING REQUIREMENTS.
- 4. PROVIDE MINIMUM SILL ANCHORAGE OF 5/8" X 7" EMBED BOLTS AT 48" OC UNLESS NOTED OTHERWISE
- ON SHEARWALL SCHEDULE. BOLTS SHALL BE GALVANIZED AT PRESSURE TREATED SILL PLATES.

 5. FOR SHEAR WALL STRAPS AND ATTACHMENT REQUIREMENTS, REFERENCE THE SHEAR WALL SCHEDULE.
- 6. INDICATES HOLD-DOWN TYPE, REFERENCE HOLD-DOWN SCHEDULE.

STEEL PIPE PILE PLAN NOTES:

- 1. ALL PILES SHALL BE ASTM A53 SCHEDULE 80 STEEL PILES.
- 2. PILES AND SPLICE JOINTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A780.
- 3. PILES SHALL BE DRIVEN TO REFUSAL DEFINED AS LESS THAN ONE INCH OF PENETRATION FOLLOWING 30 SECONDS OF DRIVING USING A HYDRAULIC HAMMER WEIGHING 125 POUNDS. THE MAXIMUM HAMMER WEIGHT CLASS SHALL BE 350.
- 4. PILE LENGTHS ARE EXPECTED TO BE 30 TO 40 FT BASED ON SOIL CONDITIONS.
- 5. REFER TO GEOTECH REPORT BY TERRA ASSOCIATES, INC DATED NOV 21, 2022 FOR ADDITIONAL INFO.
- 6. PROVIDE WELD SPLICE BACKER PLATES OF SAME MATERIAL AS THE STEEL PILES.
- 7. ALL REBAR ANCHORS WELDED TO PILE CAP PLATES SHALL BE ASTM A706 WELDABLE REBAR.
- 8. PROVIDE DRIVING EQUIPMENT AND HAMMER SPECIFICATIONS TO ENGINEER A MINIMUM OF 15 DAYS PRIOR TO BEGINNING DRIVING FOR REVIEW AND APPROVAL.
- 9. GEOTECHNICAL ENGINEER SHALL BE ENGAGED TO PROVIDE ON SITE INSPECTION AND OBSERVATION DURING PILE INSTALLATION.





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509-998-7410
TJ@MDSstructural.com

PROJECT:

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ARCHITECT:

Formworks Design Build 7434 SE 71st St Mercer Island, WA

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21-045

SHEET TITLE: FOUNDATION PLAN

S2.0

RAWN: DATE: CHECKED: DATE: 09/19/2022 AJM 09/19/2022

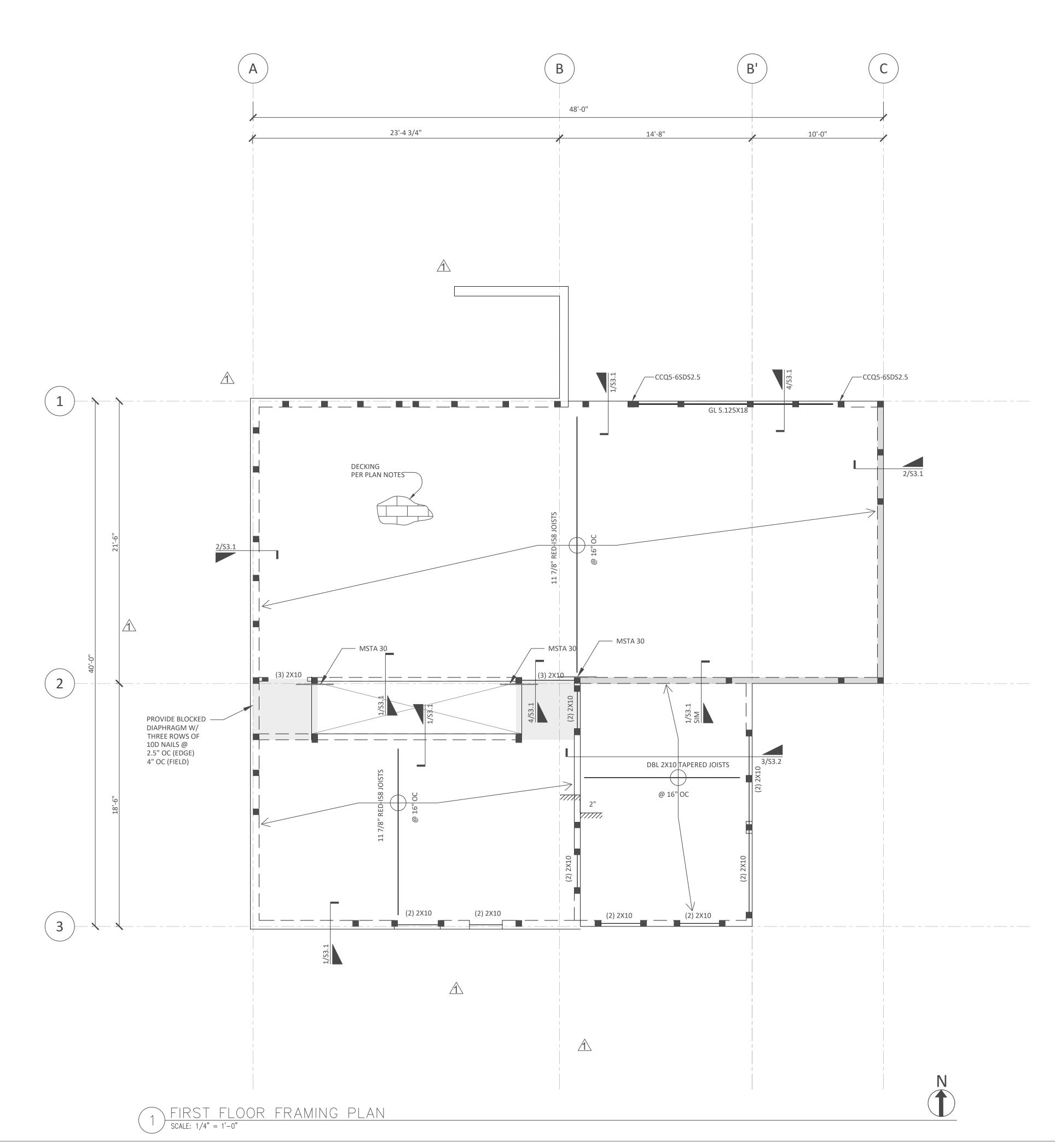
FLOOR FRAMING PLAN NOTES:

- 1. VERIFY LOCATIONS OF NEW COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS. VERIFY ALL WALL, FLOOR, AND ROOF ELEVATIONS WITH ARCHITECTS DRAWINGS.
- 2. COORDINATE FRAMING WITH ALL MECHANICAL, HVAC, SPRINKLER, PLUMBING, AND ELECTRICAL DRAWINGS. 3. ALL WOOD EXPOSED TO WEATHER, OR IN CONTACT WITH CONCRETE, OR WITHIN 8" OF GRADE SHALL BE PRESSURE
- 4. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS/TRUSSES OVER ALL BEARING WALLS AND SHEAR WALLS.
- 5. ALL HORIZONTRAL STRAP TIES INDICATED ON PLANSHALL BE ALINGED WITH TOP PLATE OR BEAM AND BE CENTERED OVER THE JOINT BETWEEN ADJOINING ELEMENTS. REFERNCE THE STRAP MANUFACURER FOR FASTENER SIZE AND SPACING.
- 6. ALL JOIST HANGERS SHALL BE SIMPSON TOP FLANGE BEARING JB TYPE, UNO. GLULAM HANGERS SHALL BE HGLTV UNLESS NOTED OTHERWISE ON PLAN. ENGINEERED "I" JOIST HANGERS SHALL BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER.
- 7. ALL HEADERS SHALL BE MINIMUM (2) 2X10 FOR SPANS UP TO 3 FEET AND MINIMUM 5 1/8 X 12 GLULAM FOR SPANS UP TO 6 FEET, UNLESS INDICATED OTHERWISE. ALL HEADERS AND BEAMS SHALL BE SUPPORTED BY A MINIMUM OF (2) TRIMMER AND (1) KING STUD. REFERENCE THE PLANS FOR LARGER POSTS OR ADDITIONAL TRIMMERS WHERE REQUIRED. TRIMMER STUDS OR POSTS SHALL BE CONTINUOUS TO THE FOUNDATION UNLESS SUPPORTED BY TRANSFER BEAM.
- 8. REFERENCE SHEAR WALL SCHEDULE FOR SHEAR WALL TYPES AND CONSTRUCTION REQUIREMENTS.
- 9. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LEGEND, AND ABBREVIATIONS.
- 10. PROVIDE JOIST/TRUSS BRIDGING PER MANUFACTURERS REQUIREMENTS FOR ALL ENGINEERED JOISTS AND
- 11. PROVIDE DOUBLE JOISTS OR DOUBLE BLOCKING AROUND ENTIRE PERIMETER OF OPENINGS GREATER THAN ONE JOIST BAY. PROVIDE DOUBLE JOIST HANGER AT ENDS OF BLOCKING.
- 12. FLOOR SHEATHING SHALL BE AS FOLLOWS:

FLOOR SHEATHING						
SIZE	EDGE NAILING	SPAN RATING				
23/32"	0.131 X 2.5" @ 6" OC	0.131 X 2.5" @ 12" OC	24 OC			
NOTES:	1. ALL SHEATHING SHALL BE APA-RATED.					
	2. LAY SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.					
	3. STAGGER ALL SHEATHING PANEL END JOINTS					
	3. PROVIDE 1/8" GAP BETWEEN PANEL ENDS AND EDGES					
	4. FLOOR SHEATHING SHA	ALL BE STURD -I-FLOOR GRADE				

13. STRUCTURAL WALL STUD SIZES ARE AS FOLLOWS. REFERENCE THE GENERAL NOTES FOR LUMBER SPECIES:

STRUCTURAL WALL STUD SIZES (minimum)						
	Wall	Stud Size	Spacing	Grade		
	Interior Bearing	2x4	16" OC	no 2		
	Exterior	2x6.	16" OC	no 2		





MERRELL DESIGN SERVICES PLLC Nine Mile Falls, Washington 99026 509-998-7410 TJ@MDSstructural.com

PROJECT:

CHESHIRE

JOBSITE ADDRESS: 7615 E. MERCER WAY MERCER ISLAND, WA 98040

ARCHITECT:

Formworks Design Build 7434 SE 71st St Mercer Island, WA 98040

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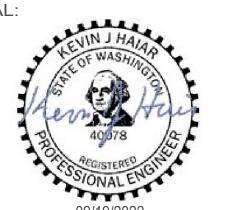
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21-045

SHEET TITLE: FIRST FLOOR FRAMING

09/19/2022 AJM

FLOOR FRAMING PLAN NOTES:

- VERIFY LOCATIONS OF NEW COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS. VERIFY ALL WALL, FLOOR, AND ROOF ELEVATIONS WITH ARCHITECTS DRAWINGS.
- COORDINATE FRAMING WITH ALL MECHANICAL, HVAC, SPRINKLER, PLUMBING, AND ELECTRICAL DRAWINGS.
 ALL WOOD EXPOSED TO WEATHER, OR IN CONTACT WITH CONCRETE, OR WITHIN 8" OF GRADE SHALL BE PRESSURE
- TREATED.
- ALL HORIZONTRAL STRAP TIES INDICATED ON PLAN SHALL BE ALINGED WITH TOP PLATE OR BEAM AND BE CENTERED OVER THE JOINT BETWEEN ADJOINING ELEMENTS. REFERNCE THE STRAP MANUFACURER FOR FASTENER SIZE AND SPACING.

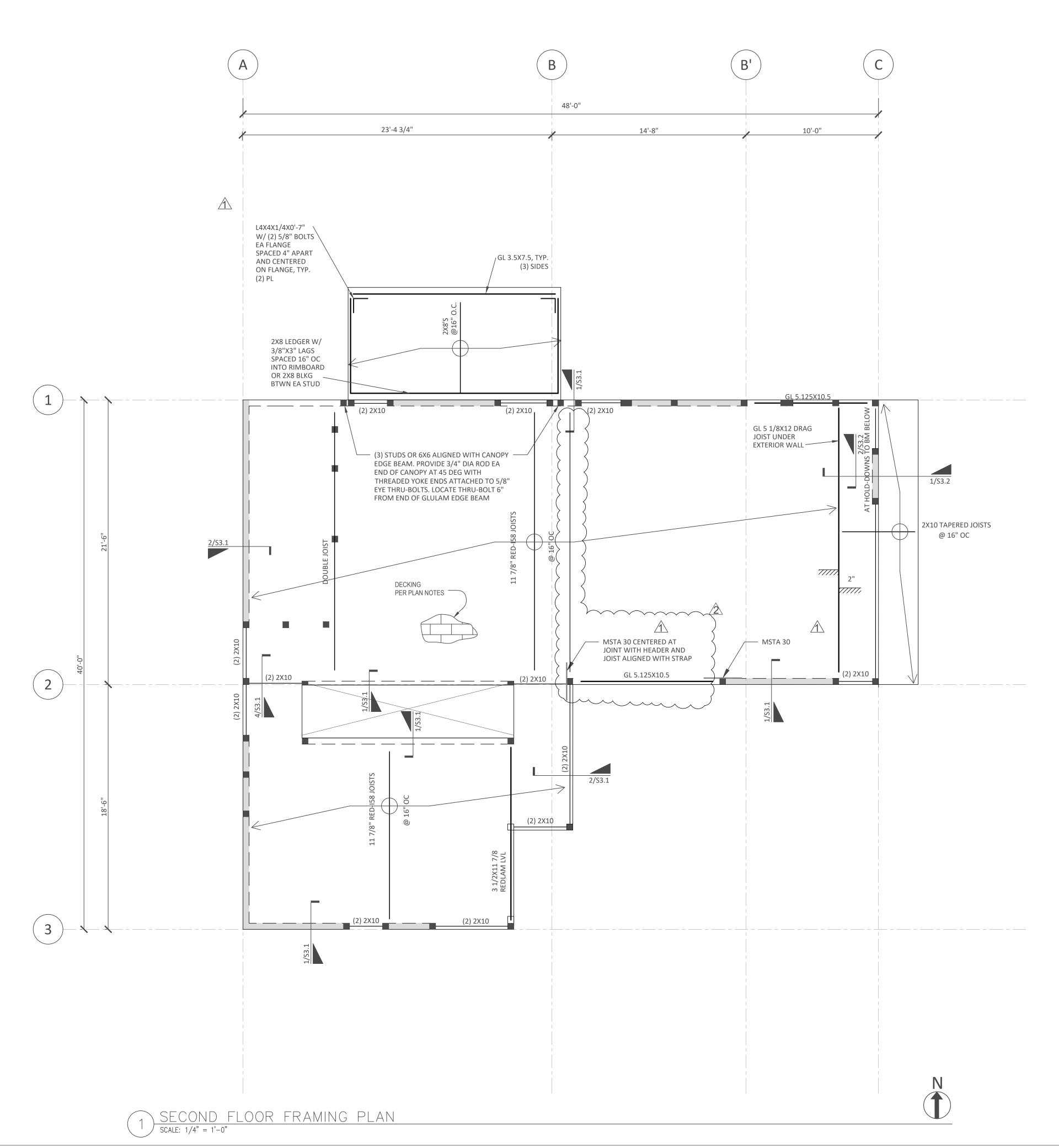
4. PROVIDE SOLID BLOCKING BETWEEN FLOOR JOISTS/TRUSSES OVER ALL BEARING WALLS AND SHEAR WALLS.

- 6. ALL JOIST HANGERS SHALL BE SIMPSON TOP FLANGE BEARING JB TYPE, UNO. GLULAM HANGERS SHALL BE HGLTV UNLESS NOTED OTHERWISE ON PLAN. ENGINEERED "I" JOIST HANGERS SHALL BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER.
- 7. ALL HEADERS SHALL BE MINIMUM (2) 2X10 FOR SPANS UP TO 3 FEET AND MINIMUM 5 1/8 X 12 GLULAM FOR SPANS UP TO 6 FEET, UNLESS INDICATED OTHERWISE. ALL HEADERS AND BEAMS SHALL BE SUPPORTED BY A MINIMUM OF (2) TRIMMER AND (1) KING STUD. REFERENCE THE PLANS FOR LARGER POSTS OR ADDITIONAL TRIMMERS WHERE REQUIRED. TRIMMER STUDS OR POSTS SHALL BE CONTINUOUS TO THE FOUNDATION UNLESS SUPPORTED BY TRANSFER BEAM.
- 8. REFERENCE SHEAR WALL SCHEDULE FOR SHEAR WALL TYPES AND CONSTRUCTION REQUIREMENTS.
- 9. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LEGEND, AND ABBREVIATIONS.
- 10. PROVIDE JOIST/TRUSS BRIDGING PER MANUFACTURERS REQUIREMENTS FOR ALL ENGINEERED JOISTS AND
- 11. PROVIDE DOUBLE JOISTS OR DOUBLE BLOCKING AROUND ENTIRE PERIMETER OF OPENINGS GREATER THAN ONE JOIST BAY. PROVIDE DOUBLE JOIST HANGER AT ENDS OF BLOCKING.
- 12. FLOOR SHEATHING SHALL BE AS FOLLOWS:

FLOOR SHEATHING					
SIZE	EDGE NAILING	FIELD NAILING	SPAN RATING		
23/32"	0.131 X 2.5" @ 6" OC	0.131 X 2.5" @ 12" OC	24 OC		
NOTES: 1. ALL SHEATHING SHALL BE APA-RATED.					
2. LAY SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.					
3. STAGGER ALL SHEATHING PANEL END JOINTS					
	PROVIDE 1/8" GAP BET	WEEN PANEL ENDS AND EDGE	S		
4. FLOOR SHEATHING SHALL BE STURD-I-FLOOR GRADE.					

13. STRUCTURAL WALLSTUD SIZES ARE AS FOLLOWS. REFERENCE THE GENERAL NOTES FOR LUMBER SPECIES:

STRUCTURAL WALL STUD SIZES (minimum)					
Wall	Stud Size	Spacing	Grade		
Interior Bearing	2x4	16" OC	no 2		
Exterior	2x6.	16" OC	no 2		





MERRELL DESIGN SERVICES PLLC
Nine Mile Falls, Washington 99026
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TJ@MDSstructural.com

PROJECT: CHESHIRE

JOBSITE ADDRESS: 7615 E. MERCER WAY MERCER ISLAND, WA 98040

ARCHITECT:

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JOB#

21-045

SHEET TITLE:
SECOND FLOOR FRAMING
PLAN

S2.2

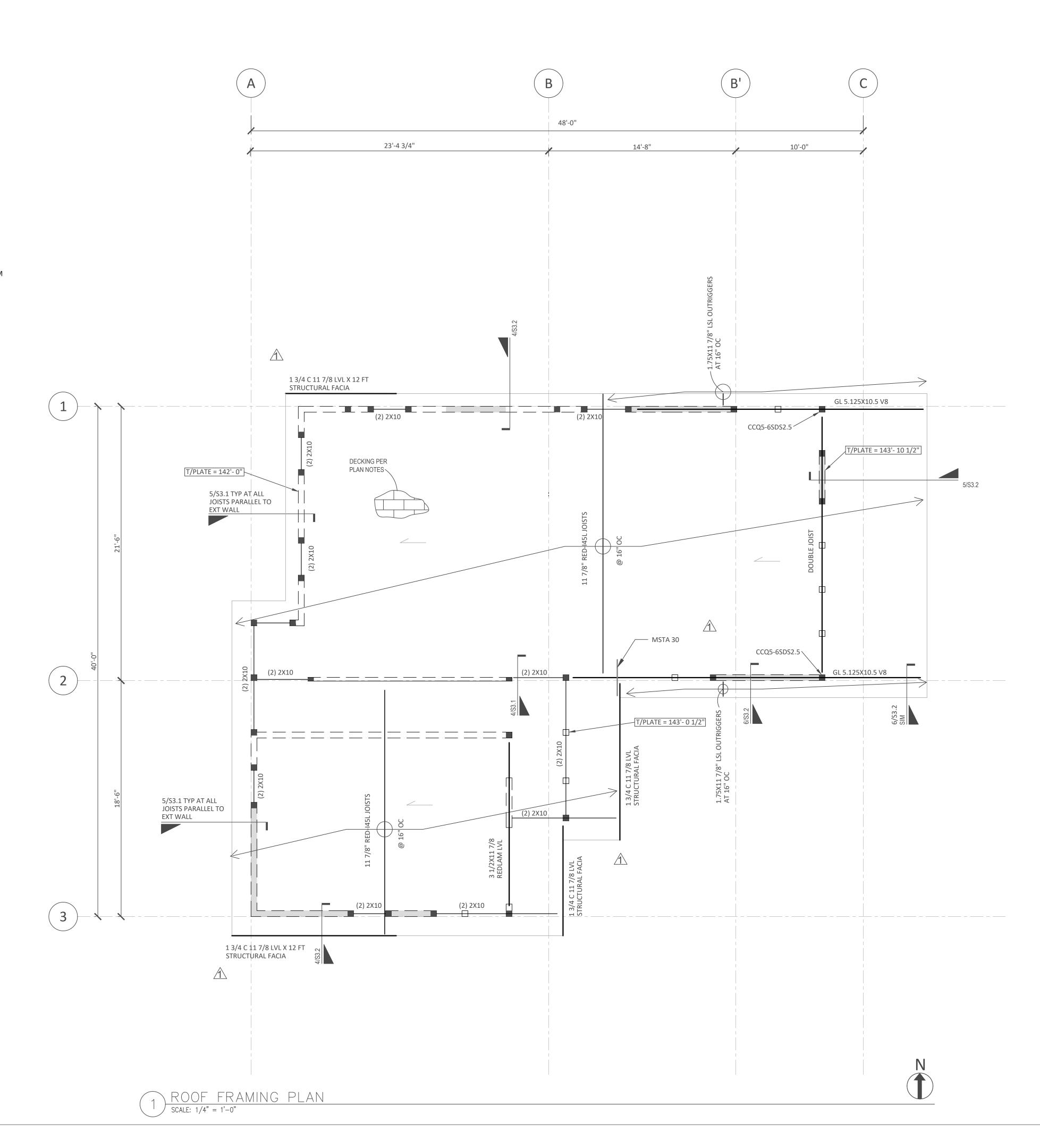
DATE: CHECKED: DATE: 09/19/2022 AJM 09/19/20

ROOF FRAMING PLAN NOTES:

- VERIFY LOCATIONS OF NEW COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS.
 VERIFY ALL WALL, FLOOR, AND ROOF ELEVATIONS WITH ARCHITECTS DRAWINGS.
- 2. COORDINATE FRAMING WITH ALL MECHANICAL, HVAC, SPRINKLER, PLUMBING, AND ELECTRICAL
- 3. PROVIDE MINIMUM SIMPSON H2.5A HURRICANE TIES AT ALL ROOF JOISTS/TRUSSES UNLESS HEAVIER TIES ARE INDICATED ON PLAN.
- 4. PROVIDE SOLID BLOCKING BETWEEN ROOF JOISTS/TRUSSES OVER ALL BEARING WALLS AND SHEAR WALLS.
- 5. ALL HORIZONTRAL STRAP TIES INDICATED ON PLANSHALL BE ALINGED WITH TOP PLATE OR BEAM AND BE CENTERED OVER THE JOINT BETWEEN ADJOINING ELEMENTS. REFERNCE THE STRAP MANUFACURER FOR FASTENER SIZE AND SPACING.
- 6. ALL JOIST HANGERS SHALL BE SIMPSON TOP FLANGE BEARING JB TYPE, UNO. GLULAM HANGERS SHALL BE HGLTV UNLESS NOTED OTHERWISE ON PLAN. ENGINEERED "I" JOIST HANGERS SHALL BE DESIGNED AND SUPPLIED BY THE JOIST SUPPLIER.
- 7. ALL HEADERS SHALL BE MINIMUM (2) 2X10 FOR SPANS UP TO 3 FEET AND MINIMUM 5 1/8 X 12 GLULAM FOR SPANS UP TO 6 FEET, UNLESS INDICATED OTHERWISE. ALL HEADERS AND BEAMS SHALL BE SUPPORTED BY A MINIMUM OF (2) TRIMMER AND (1) KING STUD REFERENCE THE PLANS FOR LARGER POSTS OR ADDITIONAL TRIMMERS WHERE REQUIRED. TRIMMER STUDS OR POSTS SHALL BE CONTINUOUS TO THE FOUNDATION UNLESS SUPPORTED BY TRANSFER BEAM.
- 8. REFERENCE SHEAR WALL SCHEDULE FOR SHEAR WALL TYPES AND CONSTRUCTION REQUIREMENTS.
- 9. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LEGEND, AND ABBREVIATIONS.
- 10. PROVIDE JOIST/TRUSS BRIDGING PER MANUFACTURERS REQUIREMENTS FOR ALL ENGINEERED JOISTS AND TRUSSES.
- 11. ROOF SHEATHING SHALL BE AS FOLLOWS:

ROOF SHEATHING						
SIZE	EDGE NAILING	FIELD NAILING	SPAN RATING			
19/32"	0.131 X 2.5" @ 6" OC	0.131 X 2.5" @ 12" OC	32/16			
NOTES:	NOTES: 1. ALL SHEATHING SHALL BE APA-RATED.					
	2. LAY SHEATHING WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.					
	3. STAGGER ALL SHEATHING PANEL END JOINTS					
	3. PROVIDE 1/8" GAP BETWEEN PANEL ENDS AND EDGES					

4. ROOF SHEATHIGN SHALL BE C-D GRADE





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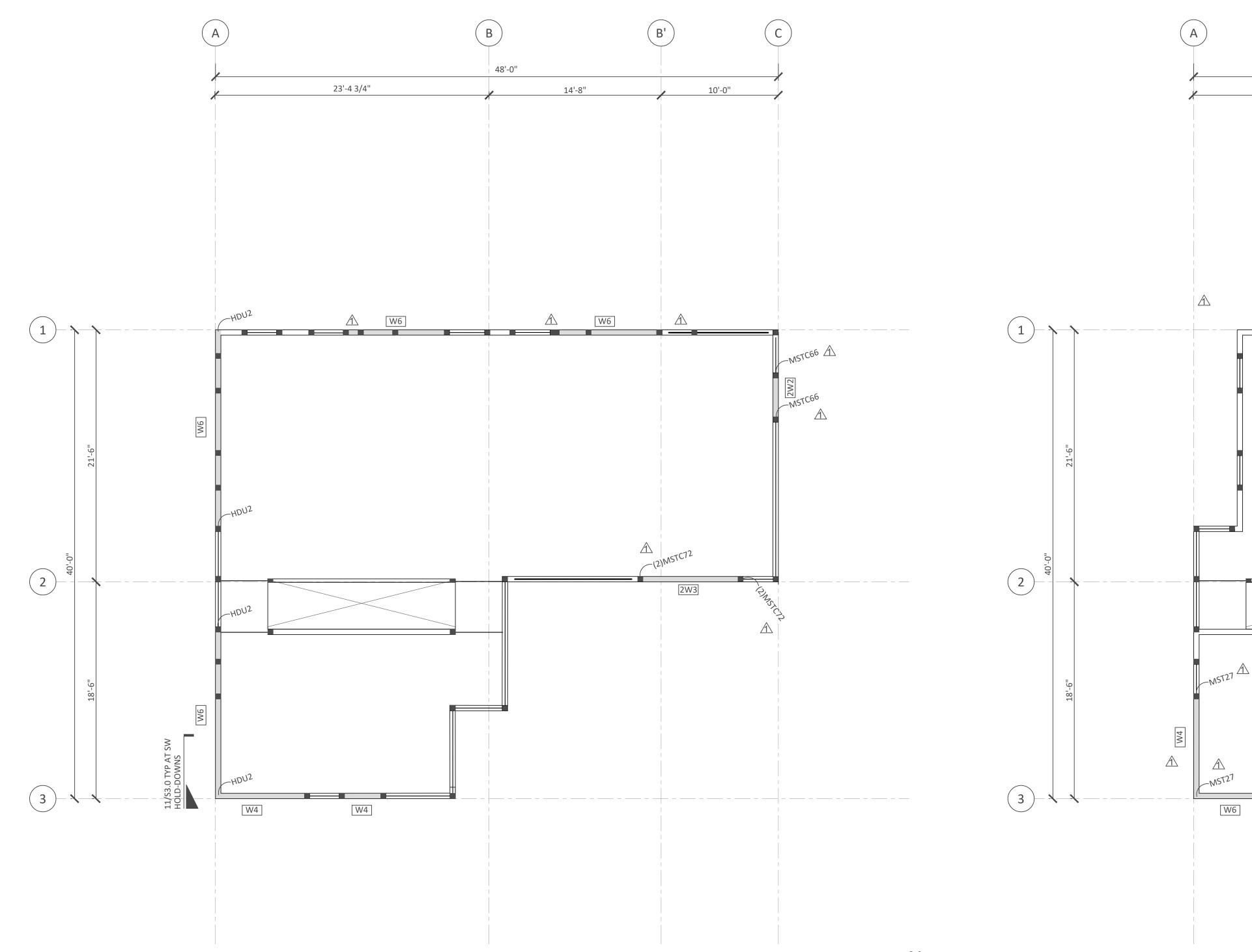
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STUD AND SHEAR WALL PLAN NOTES:

- ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL BE PER THE PLANS OR STUD WALL
 SCHEDULE, UNLESS NOTED OTHERWISE. STUDS SHALL ALIGN NOMINALLY FLOOR TO FLOOR WITH STUDS,
 JOISTS, AND TRUSSES. ATTACH SILL PLATES TO CONCRETE, RIM BOARD, OR TOP PLATE PER SCHEDULE,
 UNO IN SHEAR WALL SCHEDULE.
- 2. REFERENCE THE STRUCTURAL GENERAL NOTES FOR DESIGN CRITERIA, LUMBER GRADES, LEGEND, AND ABBREVIATIONS.
- 3. PROVIDE MINIMUM BLOCKING AT 5'-0" OC MAX FOR ALL BEARING AND EXTERIOR WALLS. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL BLOCKING REQUIREMENTS.
- 4. PROVIDE MINIMUM SILL ANCHORAGE OF 5/8" X 7" EMBED BOLTS AT 48" OC UNLESS NOTED OTHERWISE ON SHEARWALL SCHEDULE. BOLTS SHALL BE GALVANIZED AT PRESSURE TREATED SILL PLATES.
- 5. FOR SHEAR WALL STRAPS AND ATTACHMENT REQUIREMENTS, REFERENCE THE SHEAR WALL SCHEDULE.
- 6. NDICATES HOLD-DOWN TYPE, REFERENCE HOLD-DOWN SCHEDULE.
- 7. SEE DETAIL 8/S3.1 FOR STANDARD SHEAR WALL CONSTRUCTION AND HOLD-DOWN STRAP ATTACHMENT.



SECOND FLO

2 SECOND FLOOR STUD FRAMING PLAN SCALE: 3/16" = 1'-0"

48'-0"

14'-8"

10'-0"

23'-4 3/4"



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Practical Structural Solutions

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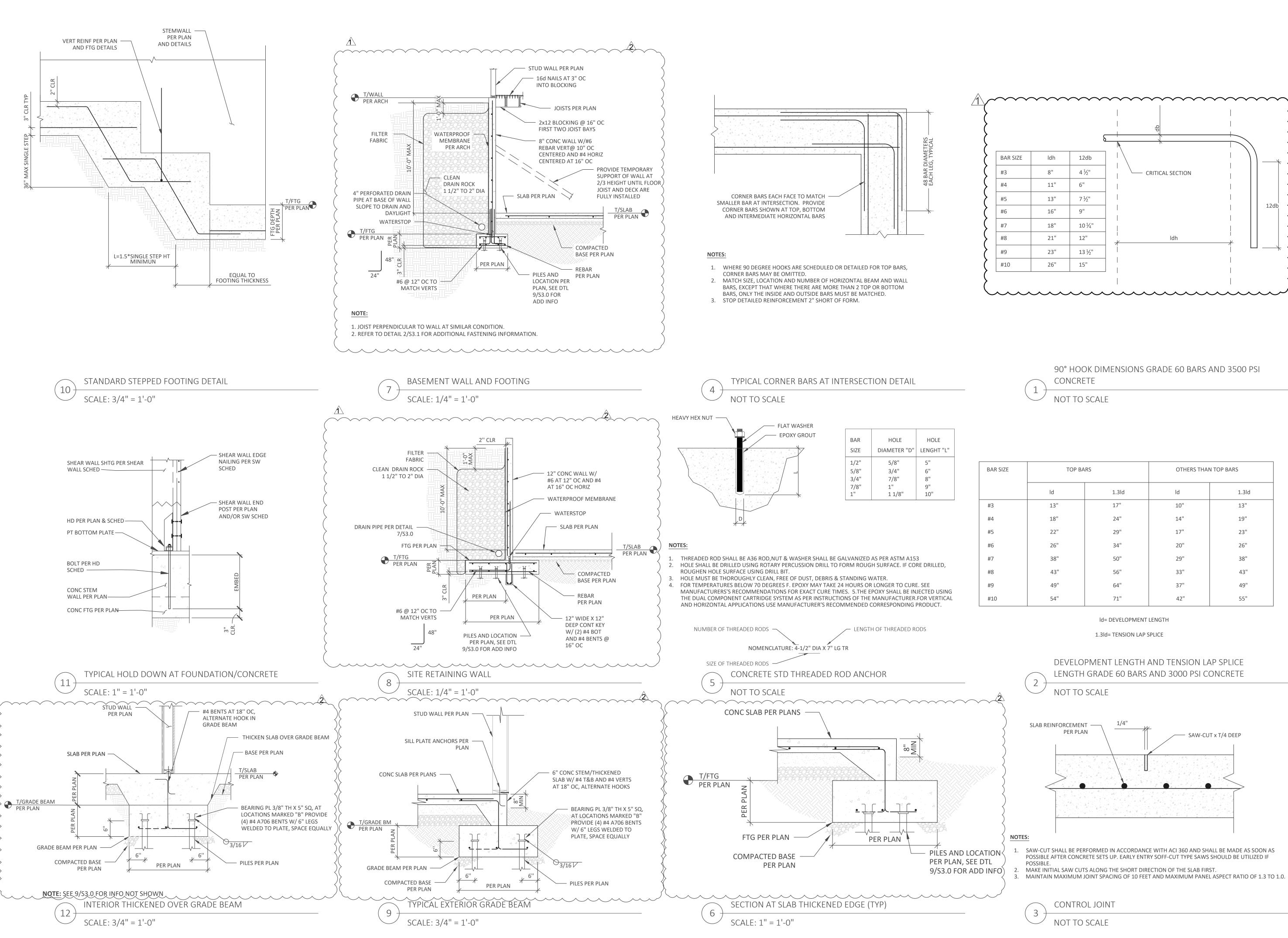
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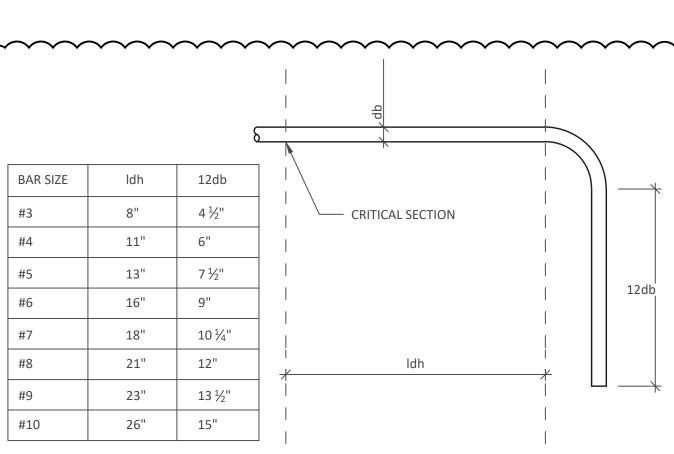
SHEET TITLE: FIRST & SECOND FLOOR STUD PLANS

SHEET#: **S2.4**

WN: DATE: CHECKED: DATE: 09/19/2022 AJM 09/19/2022

1 FIRST FLOOR STUD FRAMING PLAN SCALE: 3/16" = 1'-0"





90° HOOK DIMENSIONS GRADE 60 BARS AND 3500 PSI CONCRETE

NOT TO SCALE

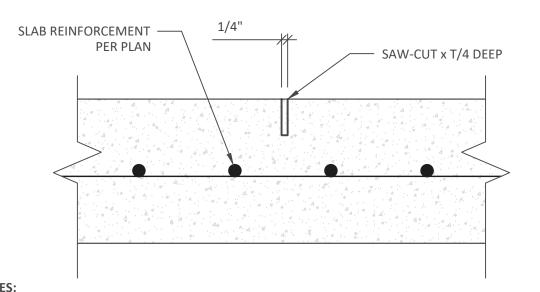
BAR SIZE	TOP BARS		OTHERS THAN TOP BARS	
	ld	1.3ld	ld	1.3ld
#3	13"	17"	10"	13"
#4	18"	24"	14"	19"
#5	22"	29"	17"	23"
#6	26"	34"	20"	26"
#7	38"	50"	29"	38"
#8	43"	56"	33"	43"
#9	49"	64"	37"	49"
#10	54"	71"	42"	55"

Id= DEVELOPMENT LENGTH

1.3ld= TENSION LAP SPLICE

DEVELOPMENT LENGTH AND TENSION LAP SPLICE LENGTH GRADE 60 BARS AND 3000 PSI CONCRETE

NOT TO SCALE



1. SAW-CUT SHALL BE PERFORMED IN ACCORDANCE WITH ACI 360 AND SHALL BE MADE AS SOON AS POSSIBLE AFTER CONCRETE SETS UP. EARLY ENTRY SOFF-CUT TYPE SAWS SHOULD BE UTILIZED IF 2. MAKE INITIAL SAW CUTS ALONG THE SHORT DIRECTION OF THE SLAB FIRST.

NOT TO SCALE

CONTROL JOINT

Merrell Design Services **Practical Structural Solutions**

MERRELL DESIGN SERVICES PLLC Nine Mile Falls, Washington 99026 509-998-7410 TJ@MDSstructural.com

PROJECT: **CHESHIRE**

JOBSITE ADDRESS: 7615 E. MERCER WAY MERCER ISLAND, WA 98040

ARCHITECT:

Formworks Design Build 7434 SE 71st St Mercer Island, WA

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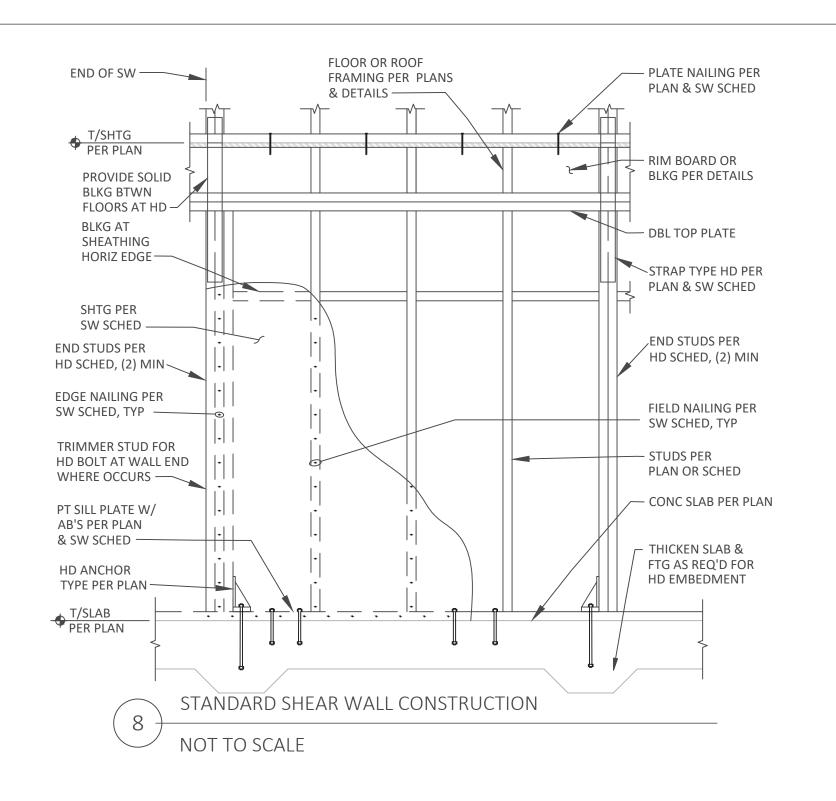
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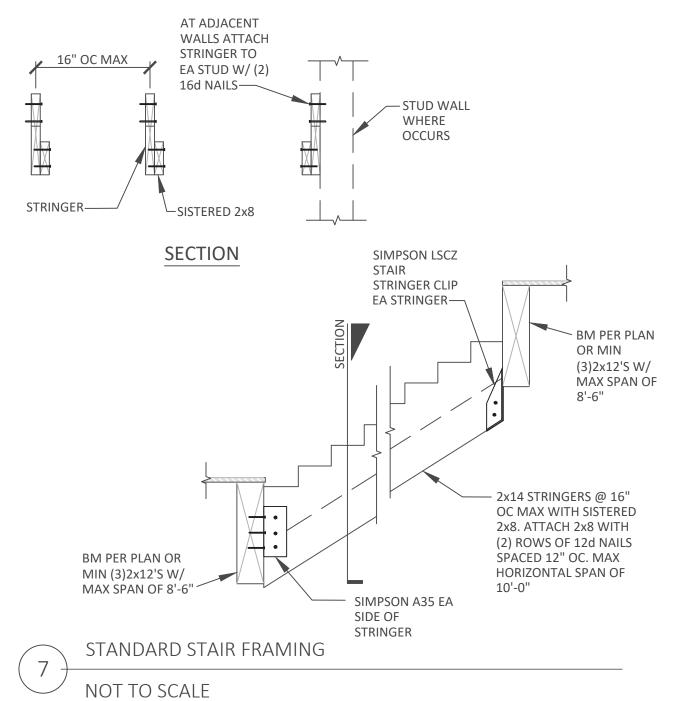
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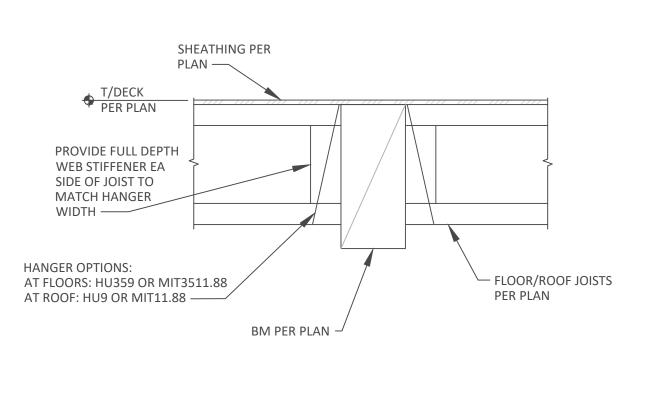
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09/19/2022 AJM





6730



-DIAPHRAGM EDGE

MAILING PER SCHED

___ 2X SOLID BLKG

16" OC

PER ARCH (2'-0" MAX)

— 2X6 OUTRIGGERS AT

FACIA

—— PER ARCH

SOFFIT FRAMING

AS REQUIRED

FLOOR JOIST BEARING AT BEAM

NOT TO SCALE

LUS26 HANGER

AT EA

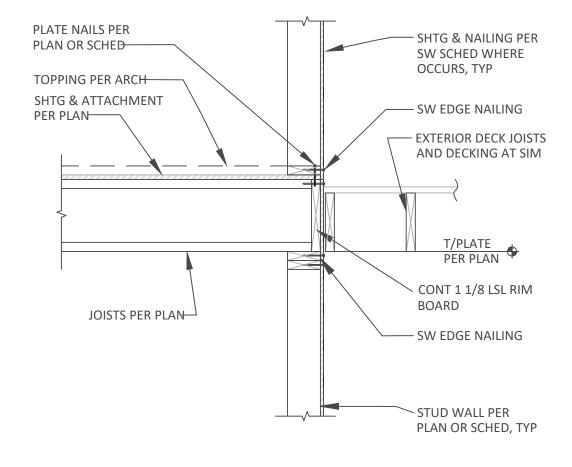
ROOF JOIST PARALLEL TO EXTERIOR WALL

SHTHG

JOIST PER PLAN —

NOT TO SCALE

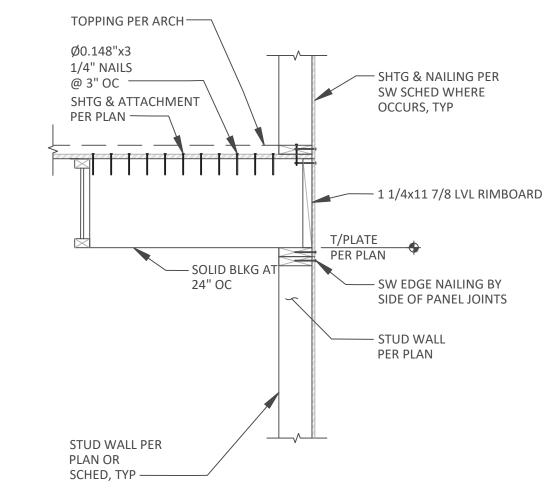
PER PLAN—



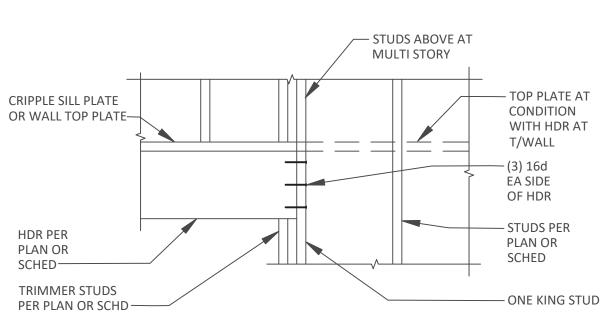


PERPENDICULAR TO JOIST

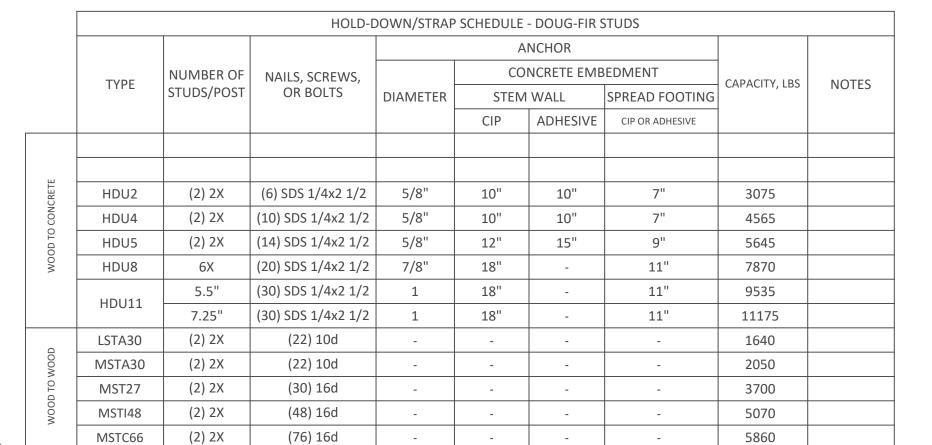
NOT TO SCALE



	TYPICAL FRAMING AT EXTERIOR WALL PARALLEL TO JOIST
\mathcal{L}	NOT TO SCALE



STANDARD HEADER PERPENDICULAR TO FLOOR JOIST



NOTES:

MSTC72

- 1. PROVIDE SHEAR WALL EDGE NAILING AT AT HOLD-DOWN STUDS/POST.
- 2. CAPACITY BASED ON 2,500 PSI CONCRETE STRENGTH.

(2) 2X

- 3. STEM WALL SHALL BE MINIMUM 6 INCHES WIDE FOR 5/8" ANCHOR BOLTS AND 8" MINIMUM FOR 7/8" AND LARGER BOLTS.
- 4. ALL HOLD-DOWNS AND STRAPS ARE BY SIMPSON STRONG TIE. CONTACT ENGINEER FOR ALTERNATE SUPPLIERS.
- 5. CAST IN PLACE ANCHORS SHALL BE HEX HEAD OR A STANDARD "J" BOLT.
- 6. ADHESIVE ANCHORS SHALL BE SIMPSON SET OR HILTI HY-150 ADHESIVE.
- 7. PLACE 1/2 OF NAILS ABOVE FLOOR JOIST AND 1/2 BELOW FLOOR JOIST. NO NAILS IN CLEAR SPAN.

(62) 16d

HOLD DOWN STRAP SCHEDULE

- 1. STUDS SHALL BE SPACED A MAXIMUM OF 16" ON CENTER EXCEPT GYP WALLS MAY BE SPACED AT 24" ON CENTER.
- 2. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- 3. ALL SHEAR PANELS SHALL BE CONTINUOUS BETWEEN HORIZONTAL DIAPHRAGMS SW'S (ROOF TO FLOOR, FLOOR TO FLOOR, FLOOR TO FOUNDATION).
- 4. REFERENCE GENERAL NOTES ON SHEET \$1.0 FOR ADDITIONAL INFO.
- 5. SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD-DOWN POST LOCATIONS. PROVIDE MIN (2) STUDS AT ENDS OF ALL. SEE HOLD-DOWN SCHEDULE FOR LARGER END STUDS AT HOLD-DOWNS.
- 6. ALL NAILING WITH TWO ROWS SHALL HAVE 1 1/2" SPACING BETWEEN ROWS.
- 7. NO. 6 X 1 1/4" DRYWALL SCREWS MAY BE USED IN LIEU OF 5D COOLER NAILS FOR GYPSUM SHEAR WALLS.
- 8. 3X BLOCKING AT PANEL EDGES MAY BE SUBSTITUTED WITH (2) 2X BLOCKING NAILED TOGETHER WITH NAIL SIZE AND SPACING TO MATCH SILL NAILING
- 9. A35 AND LTP5 CLIPS ARE SIMPSON PRODUCTS, BUT MAY BE SUBSTITUTED WITH APPROVED EQUIVALENTS. 10.SOME SHEAR WALL TYPES MAY NOT BE USED ON THIS PROJECT.

(6)	SHEAR WALL SCHEDULE
0	NOT TO SCALE

		SHEAR WALL SCHEDULE - DOUG-FIR LARCH 8D COMMON (0.131 X 2 1/2") NAILS										
				FIELD NAILING	BLOCKING AT PANEL EDGES	FASTENERS (WHERE APPLICABLE)						
L	TYPE	WALL SHEATHING (APA RATED)	EDGE NAILING			RIM JOIST TO PLATE BELOW	SILL PLATE TO RIM OR TOP PLATE BELOW	SILL ANCHORS	SILL PLATE SIZE	CAPACITY, lbs/ft		
	W6	15/32"	8d AT 6" OC	8d AT 12" OC	2x	A35 OR LTP5 AT 16" OC	16d SINKER AT 8" OC	5/8" DIA AT 48" OC	2x	260		
	W4	15/32"	8d AT 6" OC	8d AT 12" OC	2x	A35 OR LTP5 AT 12" OC	16d SINKER AT 6" OC	5/8" DIA AT 48" OC	2x	380		
	W3	15/32"	8d AT 3" OC STAGGERED	8d AT 12" OC	3x OR (2) 2x	A35 OR LTP5 AT 10" OC	16d SINKER AT 4" OC	5/8" DIA AT 16" OC	2x	490		
	W2	15/32"	8d AT 2" OC STAGGERED	8d AT 12" OC	3x OR (2) 2x	A35 OR LTP5 AT 8" OC	(2) ROWS 16d SINKER AT 6" OC	5/8" DIA AT 32" OC	3x OR (2) 2x	640		
	2W4	15/32" BOTH SIDES	8d AT 4" OC STAGGERED	8d AT 12" OC	3x OR (2) 2x	A35 OR LTP5 AT 12" OC EACH SIDE	(2) ROWS 16d SINKER AT 6" OC	5/8" DIA AT 24" OC	3x OR (2) 2x	760		
	2W3	15/32" BOTH SIDES	8d AT 3" OC STAGGERED	8d AT 12" OC	3x OR (2) 2x	A35 OR LTP5 AT 10" OC EACH SIDE	(2) ROWS16d SINKER AT 4" OC	5/8" DIA AT 24" OC	3x OR (2) 2x	980		
	2W2	15/32" BOTH SIDES	8d AT 2" OC STAGGERED	8d AT 12" OC	3x OR (2) 2x	A35 OR LTP5 AT 8" OC EACH SIDE	A35 OR LTP5 AT 8" OC EACH SIDE	5/8" DIA AT 16" OC	3x OR (2) 2x	1280		
	G7	1/2" GYP BOARD	5d COOLER @ 7" OC	5d COOLER @ 7" OC	2x	A35 OR LTP5 AT 24" OC	16d SINKER AT 8" OC	5/8" DIA AT 48" OC	2x	75		
	G4	1/2" GYP BOARD	5d COOLER @ 4" OC	5d COOLER @ 4" OC	2x	A35 OR LTP5 AT 24" OC	16d SINKER AT 8" OC	5/8" DIA AT 48" OC	2x	110		

NOT TO SCALE

Nine Mile Falls, Washington 99026 509-998-7410 TJ@MDSstructural.com PROJECT:

Merrell Design Services

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NO.	STATUS	DATE
	FOR PERMIT	08/12/21

REVISION RECORD:

ı	REV.	BY:	DESCRIPTION	DATE
			REVISION 1	09/19/2
	2		REVISION 2	12/09/2
	3			
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