CITY OF MERCER ISLAND





INSPECTION REQUESTS:

online	
	MyBuildingPermit.com

PHONE: 206.275.7605 www.mercergov.org			MybuituingPerinic.Com
MICPIAN	AASHIN	GTOP	voicemail: (206) 275-7730
NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT	T TO PUBL	IC DISCLOSURE	AS REQUIRED BY RCW 42.56
CONTACT INFORMATION: Applicant is to complete the following information.			
Applicant Contact information <i>prior</i> to permit issuance:		Applicant Contact	t information <i>post</i> permit issuance:
Name: S. Joshua Brincko		Name: S. Josh	ua Brincko
Address: 5406 SW BEACH DRIVE TER		 Address: 5406 S	W BEACH DRIVE TER
Phone: (206) 708-9933			08-9933
Email: JOSH@JOSHARCH.COM		Email: JOSH@	DJOSHARCH.COM
REQUIRED SPECIAL INSPECTIONS / STR It is the Engineer of Record's responsibility to specify all red The owner is responsible for hiring an approved private Spe Inspectors (except Geotechnical) must be WABO certified. When Special Inspection or Structural Observation is require Inspection. Note: Inspection by the City Inspector is require below. Do not cover or conceal any work prior to the City in	quired Speci ecial Inspected, the repored in addition	al Inspections or S or for the checked t shall be submitte	Structural Observation (check items below). d inspections noted below. All Special d to the City Building Inspector prior to the City
STRUCTURAL OBSERVATION BY ENGINEER OF RECORD	(EOR):		
Engineer of Record:			
✓ General Conformance to Construction Documents	L	Other:	
SOILS / GEOTECHNICAL: Special Inspector:	Company	:	Phone:
Erosion control measures			nage placement
☐ Shoring installation and monitoring✓ Observe and monitor excavation	_	Rockery installa	ial and compaction tion
☐ Verification of soil bearing☐ Other:	_	Pile placement Other:	(auger cast/driven pile)
REINFORCED CONCRETE:			
Special Inspector:			
Concrete strengthReinforcing steel and concrete placement		Retaining wall o	construction recast construction
Shotcrete placement		Other:	
Other:		_ Otner:	
STRUCTURAL STEEL: (AISC 360, Chapter N) Special Inspector:	Company	:	Phone:
		Other:	construction
STRUCTURAL MASONRY:			
Special Inspector: Mortar strength	_		phone:phone:
Masonry unit strength		Wall panel and	veneer installation
☐ Other: ☐ Other:	L	Other: Other:	
WOOD:			
Special Inspector /			DI.
Engineer of Record: Lateral resisting system construction			Phone:iaphragm construction
Other:		Other:	
OTHER SPECIAL INSPECTIONS:	6		Dhana
Special Inspector: Epoxy grout installations	Company 	: Stucco installat	Phone:ion
Expansion anchor installationsOther post installed anchors		Infiltration Syst	
Alternative construction methods:		Other:	ion Finish System (EIFS) installation
Alternative construction materials:		Other:	
DEFERRED SUBMITTALS: The Applicant is required to select all deferred submittals / fabrication / construction.	shop drawi	ngs for submittal t	to the City for review and approval prior to item
Connector plate wood trussesMetal joist / metal trusses		Post tension lay	
Premanufactured structures (stairs, etc.)		_	curtain wall construction
Precast concrete elementsOther:	[Other: Other:	
ENERGY CODE COMPLIANCE INFORMA	TION:		
Indicate where the following information is located in the or prescriptive Compliance (RECPC) Form into the drawing set	_	Alternatively, inco	orporate or include the Residential Energy Code
Prescriptive Compliance (RECPC) Form into the drawing set Sheet			
_		Air Lacher T	ting
Building envelope: wsec Table 402.1.1 (include U-factors, insulation and moisture control)		Provide air	sting. IRC Section R402.4.1.2 WA Amendments leakage test report verifying air leakage rate
Whole house ventilation: IRC Section M1507 WA Amended (include ventilation option and duct sizing if applicable)			exceed 5 air changes per hour. Testing. WSEC R403.2.2
☐ Energy Credit Information: wsec Table 406.2		Postconstruction	on Test. wsec R403.2.2.1
(include specific, written requirements) RECPC Form Information:		✓ Rough-in Test.	WSEC R403.2.2.3

(P '					
DSG	PROJECT ALERTS: Construction of the project shall be from <i>approved plans only</i> . No deviation from the approved project plans is allowed without prior	DSG			
B₹	approval from the City of Mercer Island. Approved plans must be kept on site and maintained in good condition.	ΒY			
COMPLETED	Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including: • Site Considerations • ROW restrictions • Additional Fire Code Requirements • Planning Requirements • Noise Abatement Certification • Acess Road Requirements • Water Service Requirements • Tree Requirements • Tree Requirements • Tree Requirements — Refer to "Preconstruction Meeting Checklist" provided at the preconstruction meeting for development related requirements. — Temporary site address with minimum 6" high numbers visible from the street must be installed.	COMPLETED			
BE	Erosion control measures must be as shown on approved project drawings. All erosion control is to be in place and inspected				
2	A City of Mercer Island Business License is required for all subcontractors. Call (206) 275-7783 for more information.	10			
	TREE PROTECTION REQUIREMENTS:				
	 ✓ Tree protection as shown on approved drawings shall be installed at tree dripline prior to start of any site work and must remain in place throughout the project. ✓ No trees shall be cut without a City of Mercer Island tree permit. ☐ Replacement trees must be a minimum of six feet tall at installation. They must be planted and approved prior to final inspection. ☐ For this project, N/A trees are authorized to be removed and replaced with N/A trees. ☐ This project appears to be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their website at http://www.fws.gov/pacific/eagle 				
	FIRE PROTECTION REQUIREMENTS: Separate Permits are required for ALL fire protection systems. For more information, see http://www.moreorgov.org/Dage.com/NovID=2614				
	Separate Permits are required for ALL fire protection systems. For more information, see http://www.mercergov.org/Page.asp?NavID=2614 Fire Sprinkler				
	☐ NFPA 13D Fire Alarm per NFPA 72				
	☐ Plus ☐ Monitored Sprinkler ☐ Monitored Sprinkler ☐ Water Flow Alarm ☐ Monitored Sprinkler ☐ Monitored Sprinkler ☐ Water Flow Alarm ☐ W				
	☐ NFPA 13 ☐ Other: ☐				
	FCA1 FCA3				
	WATER SUPPLY REQUIREMENTS:				
BY DSG	Fire sprinkler design calculations must be provided prior to determining water supply system requirements. Water Supply system upgrade required City Installation. Applicant Installation. Required Service Line Size: N/A Required Supply Line Size: N/A Required Meter Size: N/A (water main to meter) (water main to house) Abandonment of existing service and meter required at main. Pressure reducing valve required if pressure exceeds 80 psi. Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells or lake irrigation).	BY DSG			
E	Additional water supply requirements:				
COMPLETED	DRAINAGE REQUIREMENTS:	TE			
Σ	☐ On site detention system required ☐ Direct discharge into the lake ☐ On site infiltration system required ☐ No Storm Water permit required	PLE			
0	☐ As-built Utility drawings required. ☐ Connection to public storm drainage conveyance system req'd. ☐ Full Size drawings required. ☐ Other: ☐ Other:	COMPLETED			
BE	SIDE SEWER REQUIREMENTS:	BE C			
01	Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is lower than the elevation of the upstream manhole rim or when side sewer is shared with one or more properties. Video tape of existing sewer required (see standard details) New connection. Disconnect permit required. Reconnect permit required.	TO B			
	Note: When side sewer is to be connected to the lake line you will need to schedule three (3) days in advance with the City of Mercer Island Maintenance Department at (206) 275-7800.				
	APPROVED CODE ALTERNATIVES:				
	Code alternatives must be Inspected. Refer to the Inspection Checklist				
	☐ CA1: ☐ CA2:				
	SURVEY REQUIREMENTS (The following survey information must be submitted when checked): Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation Inspection. A property survey may be required to verify setbacks and in some cases buildings must be surveyed onto the lot. The City reserves the right to request an impervious area survey at any time prior to issuance of Certificate of Occupancy. Surveyor:				
	□ Building height survey				
	☐ MAXIMUM 40 PERCENT ALTERATION INSPECTION: MICC 19.01.050(D)(1)(b)(i) A Building Inspection prior to demolition is required for all legally nonconforming single family dwelling to ensure no more than 40 percent of the dwelling's exterior walls are structurally altered. Contact the Building Inspector at (206) 275-7730. ☐ Civil / Drainage ☐ LUP / Setback requirements				
	GEOTECHNICAL INFORMATION: Land clearing, grading, filling and foundation work within geologic hazard areas is NOT PERMITTED between October 1 and April 1				
	without an approved Seasonal Development Limitation Waiver.				
DSG	Geotechnical Report provided. All construction must comply with the recommendations of the Geotechnical Report. A copy of report and other geotechnical information must be kept on site at all times. Geotechnical Engineer Phone	/ DSG			
COMPLETED BY	SEASONAL DEVELOPMENT LIMITATION RESTRICTION: Applies (Geologic Hazard area). Grading not permitted between October 1 through April 1. Waiver approved. Grading and excavation permitted subject to all conditions noted in Seasonal Development Limitation Waiver Permit.	COMPLETED BY			
∑	Permit number ————————————————————————————————————	MC			
		_			
BE		BE			

DECLUDED CON	ISTRUCTION INSPECTION	IC.			
It is the applicant's resp www.MyBuildingPermi	ISTRUCTION INSPECTION on sibility to contact DSG to schedule it.com or by calling the Inspection Hotospection. Be specific as to type of inspection.	e ALL inspections approptime at (206) 275-7730.			
Inspector shall initial applicants responsib	I and date appropriate inspection only ility to apply for and obtain all City of in order of typical sequencing)	v if approved. Note: <i>Iter</i>		equire a sepa	r ate permit. It is the
Inspector Date Ap	Pre-construction Meeting to Review	<i>i</i> Conditions of Permit A	pproval.		
*	Tree protection Erosion control				
*	Sewer disconnect and cap. If applica	•	· ·		
*	Right-of-way use or work / easemer separate ROW permit required	nt, material delivery, etc	i. If applicable,		
	Land clearing, grading and demolition	on			
	Temporary power Pilings / Shoring / Shotcrete. If appli	icable, provide survey le	etter		
	(property line); Geotechnical Engine	eer / Special Inspector			
	reports of inspections (pile and short Footings, setbacks, UFER ground. If		vev letter		
	(building height and setbacks); Spec	cial Inspector reports of	inspections		
	(soil bearing capacity, compaction, of Foundation walls / concrete column		ion, etc.)		
	Roof and footing drains				
*	Foundation damproofing Storm drainage, including (but not li	imited to):			
	• Connections to storm		· Area drains		
	main in ROW		 Conveyance piping / cle Storm drain in ROW 	eanouts	
	Detention systemsInfiltration systems		• Control structures / ma	inholes	
	Catch basins including		• Pump systems		
*	oil-water separator tees Water Service		 Retaining wall drainage 	•	
	Water Supply				
	Water as-built drawings Side sewer installation, including (bu	ut not limited to):			
T	• Connections to side		Back-flow valves		
	sewer main		• Grinder pump systems		
	 Connections to existing side sewer 		• Sewer manholes		
	Driveway / Access road				
	Underslab electrical / mechanical / Underslab insulation / vapor barrier				
	Underfloor framing	/ Territoreing			
	Nailing-Roof sheathing. If applicable	e, provide Special Inspec	tion		
	letter for lateral wood inspection. Nailing-Exterior wall and Shearwall.	If applicable, provide Si	necial		
	Inspection letter for lateral wood in		yeolal .		
	Rough hydronic installation				
*	Rough electric installation Rough fire alarm (wiring inspection)				
	Rough plumbing installation (DWV,				
	Rough mechanical Gas Piping				
*	Rough fire sprinkler / hydrostatic an	nd flow (bucket) test			
	Framing and glazing. If applicable, p lateral wood inspection, welding ep		n letter for		
	Masonry construction (fireplace / w	•			
	Insulation installation				
	Stucco (paper and lath) Shower pan (or tub)				
	Miscellaneous				
	Code Alternative CA1: Code Alternative CA2:				
	Impact Fees Paid (If applicable)				
	Final Inspection: Tree Restoration Final Inspection: Fire protection, inc	cluding (but not limited	to):		—— —— ¦.
	• Sprinkler		• Fuel Tank Installation		
	Access RoadFire Code Alternatives (see below)		Fire Extinguishing SysteFire Alarm System	m	
	FCA1:		FCA3:		
	FCA2:		FCA4:		
	Final Inspection: Water supply prot backflow devices for:	ection, including (but no	ot limited to)		
	Waterfront property		• Well water on property	/	
	• Fire / lawn sprinkler		Boiler		
	Final Inspection: Site and utility: inc restoration complete and as-built di	•			
	Final Inspection: Building, including				
	applicable, provide closeout (summ Inspectors, Geotechnical Engineer, a	• • • • • • • • • • • • • • • • • • • •	•		
90 DAY TEMPO	RARY CERTIFICATE OF O		- , , ,		
	tional fees will be required and must I			ree plantings k	e completed.
	·				·
				 	
Approved Applition Al Di	EQUIDED CITY INCDECTIO	Start Date		End Date	
	EQUIRED CITY INSPECTION ntact to arrange the inspection.	NS:			
Required Inspection(s		Contact:	P	hone:	Scheduling:
IMPACT FEES:		PLAN	REVIEW APPRO	VALS:	
If applicable.			eview disciplines may be		eview the documents.

☐ Impact fees apply and are due *prior* to Final Inspection or on

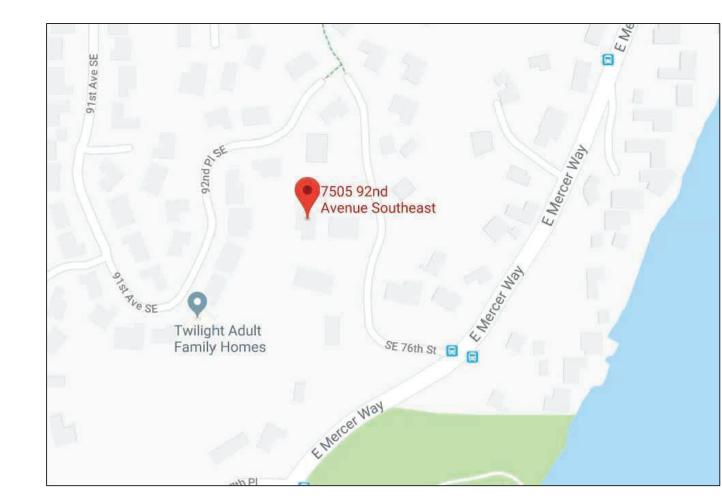
__, whichever occurs first.

(if incorporated within drawing set)
http://www.mercergov.org/files/2012ResidentialEnergyCalcForm.pdf

OWNER LAI JONATHANL@DCLMANAGEMENT.COM 7505 92ND AVE SE MERCER ISLAND, WA 98040 ARCHITECT JOSH PS 5406 SW BEACH DRIVE TER SEATTLE, WA 98116 PROJECT ADDRESS 7505 92ND AVE SE MERCER ISLAND, WA 98040 ZONING DESIGNATION R-9.6 19.02.020.E HEIGHT LIMIT 30' FROM AVERAGE GRADE TO HIGHEST POINT OF ROOF (5' BONUS FOR CHIMNEYS ETC.)	PRESCRIPTIVE OPTION (ENERGY CREDIT 1A) INSULATION VALUES SLAB PERIMETER (FIRST 24") R-10 BELOW GRADE WALLS (EXTERIOR) R-10 BELOW GRADE WALLS (INTERIOR) R-21 ABOVE GRADE WALLS R-21 FLOORS R-30 ATTICS W/ 1" CLEAR VENT SPACE R-49		
JONATHANL@DCLMANAGEMENT.COM 7505 92ND AVE SE MERCER ISLAND, WA 98040 ZONING DESIGNATION R-9.6 ARCHITECT JOSH PS 19.02.020.E HEIGHT LIMIT 5406 SW BEACH DRIVE TER SEATTLE, WA 98116 MERCER ISLAND, WA 98040 ZONING DESIGNATION R-9.6 30' FROM AVERAGE GRADE TO HIGHEST POINT OF ROOF (5' BONUS FOR CHIMNEYS ETC.)	SLAB PERIMETER (FIRST 24") R-10 BELOW GRADE WALLS (EXTERIOR) R-10 BELOW GRADE WALLS (INTERIOR) R-21 ABOVE GRADE WALLS R-21 FLOORS R-30		
MERCER ISLAND, WA 98040 ZONING DESIGNATION R-9.6 ARCHITECT JOSH PS 19.02.020.E HEIGHT LIMIT 5406 SW BEACH DRIVE TER SEATTLE, WA 98116 ZONING DESIGNATION R-9.6 19.02.020.E HEIGHT LIMIT OF ROM AVERAGE GRADE TO HIGHEST POINT OF ROOF (5' BONUS FOR CHIMNEYS ETC.)	BELOW GRADE WALLS (EXTÉRIOR) R-10 BELOW GRADE WALLS (INTERIOR) R-21 ABOVE GRADE WALLS R-21 FLOORS R-30		
JOSH PS 19.02.020.E HEIGHT LIMIT 5406 SW BEACH DRIVE TER SEATTLE, WA 98116 19.02.020.E HEIGHT LIMIT 30' FROM AVERAGE GRADE TO HIGHEST POINT OF ROOF (5' BONUS FOR CHIMNEYS ETC.)	FLOORS R-30		
SDCI ID: AC58960 CONTACT: S. JOSHUA BRINCKO (206 708 9933) *FENCES MAX 72" HIGH (50" LATTICE ALLOWED	ADV FRAMED ATTICS W/ 1" CLEAR R-38 VAULTED JOISTS/RAFTERS R-38		
JOSH@JOSHARCH.COM UP TO 90")	FENESTRATION U-0.28 OVERHEAD GLAZING U-0.50		
STRUCTURAL ENGINEER SWENSON SAY FAGET FRONT: 20' NORTH SIDE: 7.5' SEATTLE, WA 98121 CONTACT: KARL ROSMAN (206 443 6212) KROSMAN@SWENSONSAYFAGET.COM SETBACKS FRONT: 20' NORTH SIDE: 7.5' SOUTH SIDE: 13.43' REAR: 25'	*ALL NEW FENESTRATION TO BE NFRC CERTIFIED		
CONTRACTOR LOT AREA 11447 SF OWNER			
GEOTECHNICAL ENGINEER ASSESSOR'S TAX NUMBER 257950-0188			
PANGEO 3213 EASTLAKE AVE E, SUITE B SEATTLE, WA 98102 CONTACT: SIEW L. TAN, P.E. (206 262 0370) LEGAL DESCRIPTION FLOODS LAKE SIDE TRS LOT "1" MERCER ISLAND SHORT PLAT NO 95-0521 REC NO 9602019001 SD SHORT PLAT DAF - POR OF LOT 2 BLK 5 OF FLOODS LAKE SIDE TRS - AKA LOT 4 OF THE SULLIVAN SEGREGATION APPROVED SUBD 03-22-63 OF CITY OF MERCER ISLAND REC NO 8903100404 PLAT BLOCK: 5 PLAT LOT: 2			
TABLE OF CONTENTS CONSTRUCTION DATA	VENTILATION DATA		
SHT DESCRIPTION SCOPE OF WORK REPLACE EXISTING DECK WITH PAVERS; ADD	SYSTEM DESIGN		
A1.0 SITE PLAN + PROJECT INFORMATION PATIO AND EXTERIOR KITCHENETTE	THIS SYSTEM IS DESIGN/BUILD (IRC CH. 15)		
A1.1 GENERAL NOTES AREA SUMMARY	SYSTEM CRITERIA		
A1.2 TESC <u>19.02.020.D.1.b MAX GROSS FLOOR AREA</u> (40%) 11,447 = 4578.8 SF MAX ALLOWED	MINIMUM OF .35 AIR EXCHANGES PER HOUR FOR ALL HABITABLE ROOMS.		
A2.0 FLOOR PLAN =4,790 SF EXISTING	MAXIMUM OF .50 AIR EXCHANGES PER HOUR		
A3.0 ELEVATIONS *STAIRCASE FROM FLOOR ONE TO TWO IS ONLY COUNTED ONCE	FOR ALL HABITABLE ROOMS.		
A8.0 DETAILS CONDITIONED SPACE	SYSTEM COMPONENTS		
S1.0-1.1 STRUCT GENERAL NOTES LOWER LEVEL MAIN LEVEL 1940 SQ FT 1500 SQ FT	TIMER INTAKE GRILL & DUCTING (FROM EXTERIOR)		
SSK FOUNDATION PLAN AND ROOF UPPER LEVEL 1560 SQ FT TOTAL 4160 SQ FT	MOTORIZED DAMPER ELECTRIC AIR TEMPERING UNIT		
FRAMING UNCONDITIONED SPACE LOWER LEVEL TOTAL 630 SQ FT 630 SQ FT	INTAKE BLOWER DISTRIBUTION DUCTING (HABITABLE ROOMS) DISTRIBUTION GRILLS (HABITABLE ROOMS) ELECTRIC EXHAUST FAN EXHAUST DUCTING		
SEE SHEET A1.0a FOR	EXHAUST PORT WITH BACK DRAFT DAMPER		
HARDSCAPE AND LOT	SYSTEM FUNCTION		
COVERAGE	INTAKE BLOWER, AIR TEMPERING UNIT, AND EXHAUST FAN TO BE CONNECTED TO TIMER FOR SYNCHRONIZED, INTERMITTENT USE THROUGHOUT EACH DAY. FRESH AIR FROM THE EXTERIOR IS PULLED THROUGH AIR TEMPERING UNIT, THEN DISTRIBUTED THROUGH DUCTING TO ALL HABITABLE ROOMS. A BALANCED QUANTITY OF AIR IS SIMULTANEOUSLY EVACUATED FROM THE INTERIOR W/ THE EXHAUST FAN DUCTED TO		

AVG GRADE CALC

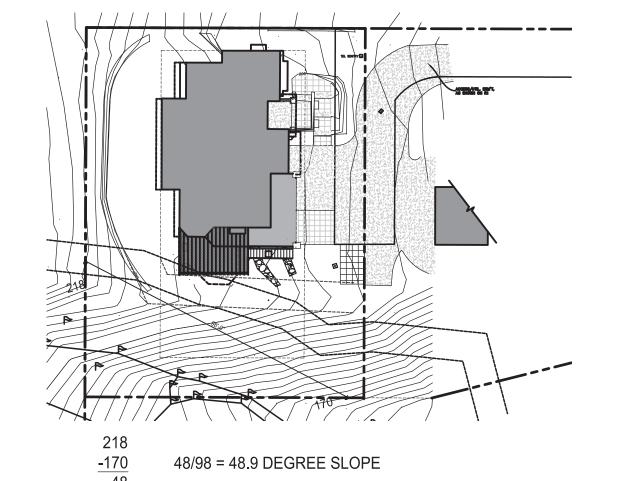
WEIGHTED MIDPOINT SUM = 3850.9+3336.48+862.4+1921.38+1466.86+7713.02+5048.68+863.52 +1211.74+820.4+2665.73+1259.4+6371.84+1676.8+2515.2+2478+817.6= 44,879.95 TOTAL LENGTH = 19.4+16.8+4+9.3+7.1+39.3+24.7+4.2+5.9+4+12.7+6+30.4+8+12+12+4 = 219.8 WEIGHTED SUM/LENGTH =44879.95/219.8 = 204.19' AVERAGE GRADE

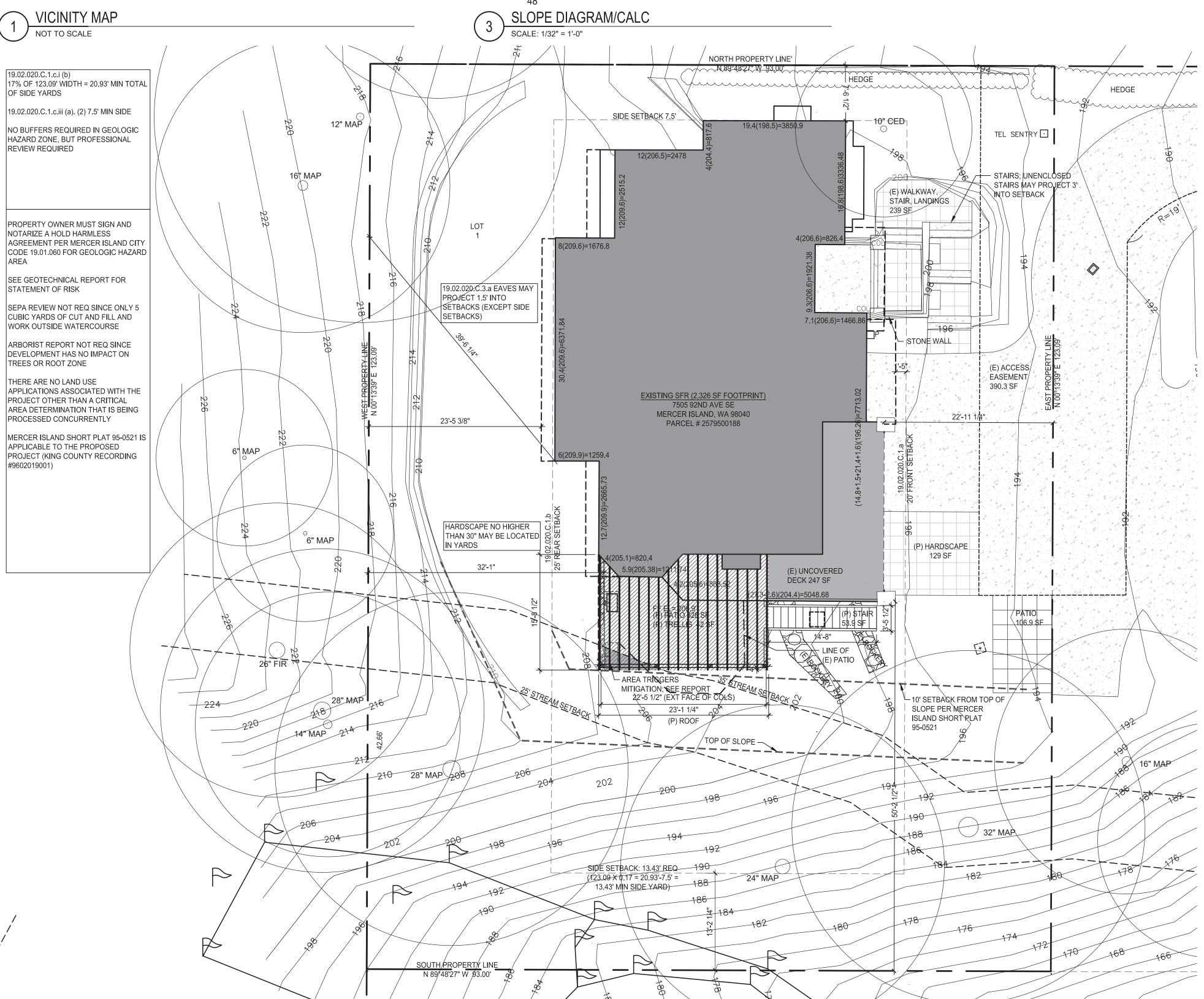


SITE PLAN (TO BE VERIFIED IN FIELD)

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

#9602019001)





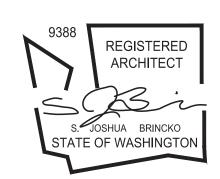


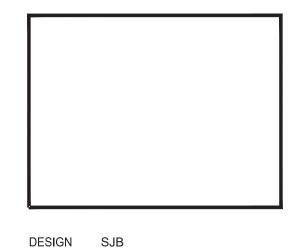
ARTISAN + ARCHITECT

206 708 9933 JoshArch.COM

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DRAWN CEC CHECKED SJB DATE [2019-0114 DESIGN] [2019-0621 PERMIT] [2020-0211 REV 1]

LAI 7505 92ND AVE SE MERCER ISLAND WA 98040

PERMIT

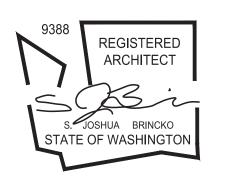
SITE PLAN PROJECT INFORMATION

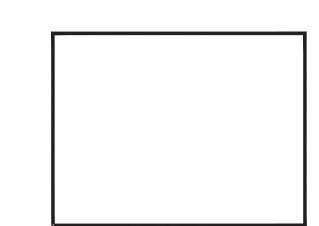


ARTISAN + ARCHITECT

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DESIGN SJB DRAWN CEC CHECKED SJB

DATE [2019-0114 DESIGN] [2019-0621 PERMIT]

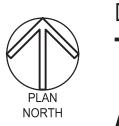
[2020-0211 REV 1]

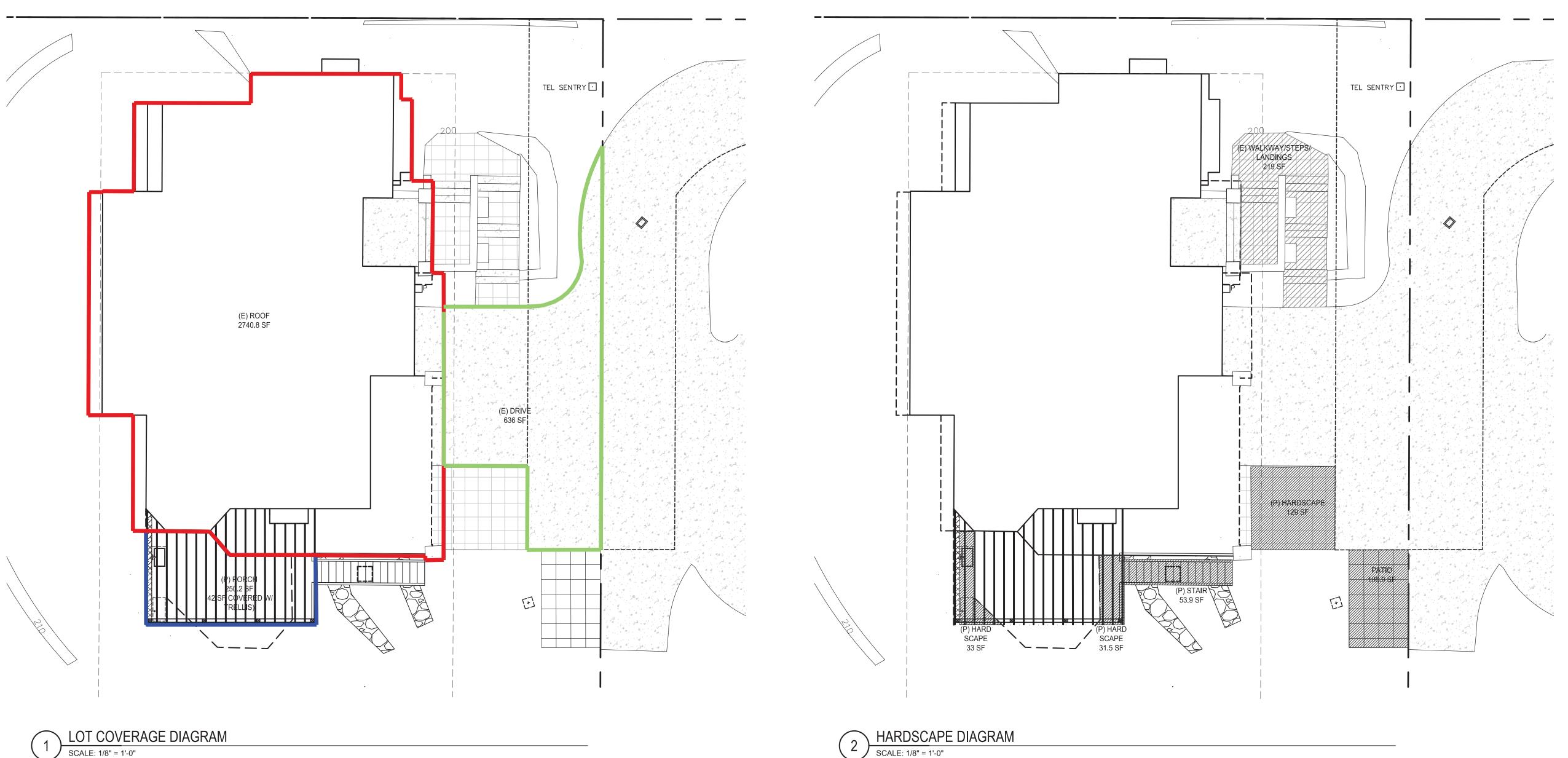
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7505 92ND AVE SE MERCER ISLAND WA 98040

PERMIT

HARDSCAPE AND LOT COVERAGE DIAGRAMS





CONSTRUCTION DATA

LOT COVERAGE
(E) ROOFS
(P) TRELLIS
(E) DRIVEWAY
TOTAL 2740.8 SQ FT 42 SQ FT 636 SQ FT 3418.8 SQ FT

LOT AREA 11447 SQ FT

19.02<u>.020.F.3.a LOT COVERAGE CALC:</u> FOR LOTS SLOPED 30-50%, MAX 30% LOT COVERAGE (INCLUDING HOUSE, DRIVEWAY, ACCESSORY BUILDINGS) SEE DIAGRAM

ALLOWABLE COVERAGE (.30X11447)=3,434.1 SF PROPOSED COVERAGE = 3418.8 SQ FT

NET LOT AREA: 11,447-390.3 ACCESS EASEMENT = 11,056.7 SF

19.02.020.F.3.b.i MAX HARDSCAPE AREA: 9 % (11,056.7 NET LOT AREA) = 995.1 SF ALLOWED EXISTING (INCLUDING DECKS, GRAVEL, WALKS, PATIOS -NOT BUILDINGS OR DRIVING SURFACES) (E) PATIO 106.9 SQ FT (E) WALKWAYS, STAIRS & LANDINGS 219 SQ FT (P) HARDSCAPE (P) STAIR 193.5 SQ FT

53.9 SQ FT TOTAL 573.3 SQ FT

SOFTSCAPE AND DRIVEWAY DRIVE = 636 SQ FT

19.02.020.F.3.c LANDSCAPE AREA: MIN 70% (11447) = 8,012.9 SF MIN

PROPOSED LANDSCAPE = 11,447 SF LOT AREA - 3434.1 SF COVERAGE = 8012.9 SF (INCLUDES SOFTSCAPE AND HARDSCAPE - NOT INCLUDING DRIVEWAYS)

19.02.020.G PARKING REQUIREMENTS: 3 REQUIRED (MIN 2 COVERED)
3 COVERED EXISTING CHANGED TO 2 COVERED

MAX ACCESSORY AREA: MAX 25% OF GROSS FLOOR AREA 25%(4578.8)= 1144.7 SF

INCLUDES SOFTSCAPE AND HARDSCAPE - NOT INCLUDING DRIVEWAYS (MAX 17' HIGH ABOVE AVERAGE GRADE)

ALLWBLE BUILDING PAD (SHRT PLAT) 3470 SF

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

GENERAL NOTES

1. ALL WORK TO COMPLY WITH '2015 INTERNATIONAL RESIDENTIAL CODE' WITH JURISDICTION AMENDMENTS WHERE APPLICABLE.

2. ALL APPLICABLE CODES, ORDINANCES AND MINIMUM STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER ALL DRAWINGS, NOTES AND SPECIFICATIONS.

3. CONTRACTOR MUST CONTACT ARCHITECT IMMEDIATELY FOR ANY DISCREPANCIES IN CONTRACT DOCUMENTS OR EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.

4. CONTRACTOR MUST CONTACT ARCHITECT IMMEDIATELY FOR ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND APPLICABLE CODES PRIOR TO PROCEEDING WITH WORK.

5. CONTRACTOR TO VERIFY ALL DIMENSIONS, GRADES, AND EXISTING CONDITIONS BEFORE PROCEEDING WITH

6. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH ALL ASPECTS OF THE WORK PRIOR TO CONTRACTING WITH THE OWNER TO PERFORM THE WORK.

7. CONTRACTOR SHALL VERIFY CONFORMANCE OF ACTUAL SOIL CONDITIONS WITH SOILS REPORT AND DESIGN

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS FOR THE WORK, EXCEPT FOR

THE BUILDING PERMIT WHICH IS THE RESPONSIBILITY OF THE ARCHITECT.

9. CONTRACTOR'S GUARANTEE ON ALL MATERIALS AND WORKMANSHIP TO BE (1) YEAR FROM DATE OF COMPLETION UNLESS NOTED OTHERWISE IN CONTRACT.

10. REPETITIVE FEATURES MAY BE DRAWN ONLY ONCE, BUT SHALL BE PROVIDED AS IF DRAWN IN FULL. REPETITIVE NOTES MAY BE CALLED OUT ONLY ONCE AND INDICATED AS TYPICAL (TYP).

11. DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE OR CENTERLINE OF INTERIOR COLUMNS UNLESS NOTED OTHERWISE.

12. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS AND NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES IN FRAMING PRIOR TO PROCEEDING WITH WORK.

13. THESE DRAWINGS ARE DESIGN-BUILD IN THE AREAS OF MECHANICAL, ELECTRICAL, AND PLUMBING.

14. THE GENERAL CONTRACTOR AND OTHER PARTIES DOING WORK ON BEHALF OF THE GENERAL CONTRACTOR INCLUDING BUT NOT LIMITED TO SUBCONTRACTORS AND ALL STAFF ARE REQUIRED TO BECOME FAMILIAR WITH ALL REGULATIONS REGARDING THE CONSTRUCTION, DEMOLITION, AND RELATED ACTIVITIES FOR THE PROJECT. ANY VIOLATIONS TO APPLICABLE REGULATIONS CAUSED BY THE PARTIES HEREIN SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

15. VISIBLE OVERLAPPING MATERIALS SUCH AS FLASHING TO BE LAPPED SUCH THAT SEAM IS NOT FACING STREET OR DOMINANT VIEW.

16. VENTS AND PENETRATIONS TO BE HIDDEN FROM VIEW FROM STREET OR DOMINANT VIEW.

17. THE GENERAL CONTRACTOR IS REQUIRED TO ORGANIZE A MEETING ON SITE WITH THE ARCHITECT AND ACTUAL LABORS INSTALLING SIDING TO CONFIRM LOCATIONS OF EACH SIDING MATERIAL.

JOB SITE SAFETY

1. THE ARCHITECT HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS.

2. PERIODIC SITE VISITS PERFORMED BY THE ARCHITECT SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION SAFETY PRECAUTIONS.

3. THE ARCHITECT IS NOT RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES OR EMPLOYEES OF SUPPLIERS OR SUBCONTRACTORS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

OCCUPIES THE BUILDING.

1. ALL EXCAVATION AND FILL SHALL BE STORED AND PROTECTED SUCH AS TO PREVENT RUN OFF OF MATERIAL TO ADJACENT PROPERTIES.

2. FOOTING DRAIN TO BE SEPARATE FROM ROOF AND IMPERVIOUS AREA DRAINS.

3. DOWNSPOUT DRAIN TO BE 4" DIAMETER TIGHTLINE UNLESS NOTED OTHERWISE

4. FOOTING DRAIN TO BE 4" DIAMETER PERFORATED PIPE WRAPPED IN GEOTEXTILE FABRIC UNLESS NOTED

5. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH REQUIRED SEPTIC AND/OR STORM WATER DETENTION

6. SUBSTANTIAL COMPLETION SHALL BE DEFINED AS A POINT IN WHICH ALL INSPECTIONS ARE APPROVED, AND THE BUILIDING MAY BE USED FOR ITS INTENDED PURPOSE. THE BUILDER SHALL PRESENT A FINAL APPLICATION FOR PAYMENT TO THE OWNER AT THE POINT OF SUBSTANTIAL COMPLETION. ONCE THE FINAL APPLICATION FOR PAYMENT IS RECEIVED, THE OWNER SHALL PRESENT A PUNCHLIST TO THE GENERAL CONTRACTOR TO FINALIZE ANY MINOR ITEMS THAT MAY NEED REPAIRED, BUILT, ALTERED, OR OTHERWISE ADDRESSED TO BRING THE BUILDING IN CONFORMANCE WITH THE CONSTRUCTION DRAWINGS, CODE REQUIREMENTS, AND ORDINARY STANDARD OF CONSTRUCTION QUALITY. ONCE THE PUNCHLIST IS DELIVERED TO THE BUILDER, THE OWNER ACCEPTS RESPONSIBILITY FOR THE BUILDING AND UTILITIES AND MAY OCCUPY THE BUILDING FOR ITS INTENDED USE ONCE APPROVED BY THE BUILDER. THE WARRENTY PERIOD SHALL BEGIN AT THE TIME THE OWNER

VENTILATION NOTES

1. ALL WORK TO COMPLY WITH THE 2015 IRC CHAPTER 15 WITH JURISDICTION AMENDMENTS.

2. SOURCE SPECIFIC FANS SHALL BE LOCATED IN ALL KITCHENS, BATHROOMS, WATER CLOSETS AND LAUNDRY FACILITIES. VENTILATION CAPACITY SHALL BE AT LEAST 50 C.F.M. FOR BATHROOMS AND LAUNDRY ROOMS (Intermittent use) AND 100 C.F.M. FOR KITCHENS (Intermittent use). DUCTING SHALL TERMINATE OUTSIDE THE BUILDING AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.

3. WHOLE HOUSE VENTILATION SYSTEM SHALL BE CAPABLE OF .35 AIR EXCHANGES PER HOUR BUT NO MORE THAN .50 AIR EXCHANGES PER HOUR UNDER NORMAL OPERATING CONDITIONS. OUTDOOR AIR SHALL BE PROVIDED TO ALL HABITABLE ROOMS. FAN SHALL HAVE A SONE RATING OF 1.5 OR LESS MEASURED AT 0.1 INCHES WATER GAUGE.

4. DUCT WORK SHALL CONFORM TO TABLE M1508.6.2 AND M1506.1 OF THE '2015 IRC CHAPTER 15' WITH

JURISDICTION AMENDMENTS.

EQUIPMENT COMPLETELY ENCLOSED WITHIN THE BUILDING ENVELOPE 6. PROVIDE A MINIMUM NET AREA OF 1 SQUARE FOOT OF VENTILATION AREA FOR EACH 150 SQUARE FEET OF

5. INSULATE DUCTS WITH MIN. R8 INSULATION, ALTHOUGH NO INSULATION IS REQUIRED IF THE DUCTS AND

CRAWLSPACE AREA. PLACE OPENINGS AS NEAR AS TO CORNERS AS PRACTICABLE AND SHALL PROVIDE CROSS

7. ALL CRAWLSPACE VENTS TO BE PROVIDED WITH 1/4" NON-CORROSIVE WIRE MESH.

8. PROVIDE A MINIMUM NET AREA OF 1 SQUARE FOOT OF VENTILATION AREA FOR EVERY 150 SQUARE FEET OF ATTIC AREA. PROVIDE A CONTINUOUS 1 INCH MINIMUM AIR SPACE ABOVE INSULATION FOR CROSS VENTILATION.ALL ROOFS TO BE CROSS-VENTED U.N.O.

9. ALL ATTIC VENTS TO BE PROVIDED WITH 1/4" NON-CORROSIVE WIRE MESH OR APPROVED SOFFIT VENTS.

10. OUTDOOR AIR INLETS SHALL BE INSTALLED WITHIN EACH HABITABLE SPACE WITH NOT LESS THAN 4 SQUARE INCHES OF INLET AREA EACH WITH SCREENS AND CONTROLLABLE OPENINGS NOT WITHIN 10' OF AN APPLIANCE VENT OR PLUMBING DRAIN VENT OUTLET, NOT WITHIN A ROOM WITH FUEL BURNING APPLICANCES, NOT WITHIN ATTICS, CRAWLSPACES, OR GARAGES AND NOT WITHIN UNSANITARY OR ORDOROUS AREAS PER IRC M1507.3.4.4

11. PER SRC M1501.1 EXHAUST FAN VENTS SHALL TERMINATE OUTDOORS AND NOT IN ATTICS, SOFFITES, RIDGE VENTS, OR CRAWL SPACES, TERMINATIONS TO EXIT THE STRUCTURE WITH CLEARANCES MEETING SRC M1506.3: NOT LESS THATN 3 FEET FROM PROPERTY LINES, 3 FEET FROM OPERABLE OPENINGS INTO THE BUILDING AND 10 FEET FROM MECHANICAL AIR INTAKES.

MOISTURE PROTECTION

1. PROVIDE PRESSURE TREATED PLATES BETWEEN CONCRETE AND

2. PROVIDE A MINIMUM OF 12" CLEAR BETWEEN WOOD GIRDERS AND EARTH.

3. PROVIDE A MINIMUM OF 18" CLEAR BETWEEN WOOD JOISTS AND EARTH.

4. PROVIDE A MINIMUM OF 8" CLEAR BETWEEN WOOD POSTS AND EARTH.

5. PROVIDE A MINIMUM OF 1" CLEAR BETWEEN WOOD POSTS AND CONCRETE FLOORS.

6. CAULK ALL OPENINGS THOROUGHLY.

7. FLASH ALL OPENINGS WITH A MINIMUM OF 26 GAUGE GALVANIZED STEEL TO ACCEPTABLE INDUSTRY

8. METAL COPING AT PARAPET TO BE A MINIMUM OF 22 GAUGE GALVANIZED STEEL.

9. JOSH RECOMMENDS WET SEAL AND WET FLASH LIQUID APPLIED WEATHERPROOFING IN LIEU OF BUILDING PAPER OR HOUSEWRAP.

1. THE GARAGE SHALL BE SEPERATED FROM THE RESIDENCE AND IT'S ATTIC BY NOT LESS THAN THE FOLLOWING:

- NOT LESS THAN (1) LAYER OF 5/8" TYPE "X" GYPSUM WALLBOARD APPLIED TO ALL GARAGE WALLS. NOT LESS THAN (2) LAYERS OF 5/8" TYPE "X" GYPSUM WALLBOARD AT CEILINGS.

- 1-3/8" MINIMUM THICK, SOLID CORE, OR HONEYCOMB CORE STEEL DOOR, OR A 20-MIN. FIRE-RATED DOOR.

- DUCTS PIERCING FIRE SEPARATION TO BE A MINIMUM OF 26 GAUGE, AND HAVE NO OPENINGS INTO THE GROUP "U" OCCUPANCY.

2. FIRE SEPARATION TO BE HORIZONTAL AND VERTICAL INCLUDING ALL STRUCTURAL MEMBERS SUPPORTING THE

3. ALL ENCLOSED USEABLE SPACE UNDER STAIRWAYS SHALL BE (1) LAYER OF 5/8" TYPE 'X' GYPSUM WALLBOARD ON ENCLOSED SIDE.

4. SMOKE DETECTORS SHALL BE HARD WIRED TO BUILDING POWER AND SHALL HAVE BATTERY BACKUP.

5. SMOKE DETECTORS SHALL BE AUDIBLE IN ALL SLEEPING ROOMS, AND OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

6. A MINIMUM OF (1) SMOKE DETECTOR SHALL BE INSTALLED ON EACH FLOOR INCLUDING THE GARAGE.

7. FIRESTOPPING AND DRAFTSTOPPING SHALL CONSIST OF 2" NOMINAL LUMBER.

8. FIRESTOPPING AND DRAFTSTOPPING IS REQUIRED IN THE FOLLOWING PLACES:

- CONCEALED SPACES AT ALL FLOOR AND CEILING LEVELS AND AT 10 FOOT INTERVALS ALONG THE LENGTH OF THE WALL.

- INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES (i.e. Soffits)

- CONCEALED SPACES BETWEEN STAIR STRINGERS AT TOP AND BOTTOM OF THE RUN.

9. ROCK WOOL AROUND ALL OPENINGS FOR VENTS, PIPES, DUCTS, ETC.

10. EMERGENCY EGRESS WINDOWS SHALL MEET THE FOLLOWING REQUIREMENTS:

CLEAR OPEN WIDTH 20" (Minimum) CLEAR OPEN HEIGHT 24" (Minimum) CLEAR OPEN AREA 5.7 s.f. (Minimum) SILL HEIGHT 44" (Maximum)

11. PREFABRICATED FIREPLACES SHALL BEAR U.L. OR I.C.B.O. SEAL OF APPROVAL AND SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS.

12. APPLIANCE GENERATING A GLOW, A SPARK, OR FLAME MAY BE INSTALLED IN THE GARAGE PROVIDED THE HEATING ELEMENTS AND SWITCHES ARE 18" ABOVE THE FLOOR.

13, GARAGE FLOOR TO BE CONSTRUCTED OF NON COMBUSTIBLE MATERIAL (CONCRETE).

SHOP DRAWINGS

1. SHOP DRAWINGS ARE REVIEWED FOR DESIGN INTENT ONLY.

2. THE CONTRACTOR IS TO REVIEW AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTING TO ARCHITECT OR STRUCTURAL ENGINEER.

3. SEE STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND CLARIFICATIONS REGARDING SHOP DRAWINGS.

EARTH WORK

1. EXTEND EXCAVATION DOWN TO UNDISTURBED SOIL OF THE SPECIFIED STRENGTH WITH A MINIMUM OF 18" BELOW LOWEST ADJACENT FINISH GRADE.

2. COMPACTED FILL TO BE WELL GRADED AND GRANULAR WITH NOT MORE THAN 5% PASSING A 200 SIEVE. PLACE IN 8" LOOSE LIFTS AND COMPACT TO 95% MODIFIED AASHO DENSITY AT OPTIMUM MOISTURE CONTENT.

3. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

SAFETY AND SECURITY

1. DEADBOLTS WITH A MINIMUM THROW OF 1/2" AND A VIEWPORT ARE REQUIRED AT ALL EXTERIOR DOORS.

2. DEADBOLTS OR APPROVED LOCKING DEVICES ARE REQUIRED ON ALL SLIDING DOORS.

3. ALL LOCKS SHALL BE OPENABLE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT.

4. WINDOWS WITHIN 10'-0" OF FINISHED GRADE SHALL BE PROVIDED WITH LATCHING DEVICES.

5. STAIRWAYS TO MEET THE FOLLOWING REQUIREMENTS: OCCUPANCIES LESS THAN 10

STAIR WIDTH TREAD WIDTH 10" (Minimum), 6" Minimum for Winders RISER HEIGHT 7 3/4" (Maximum) HEADROOM 80" (Minimum) HANDRAIL HEIGHT 34" to 38" above nosing HANDRAIL GRASP 1-1/4"(Min) to 2" (Max)

6. HANDRAIL INTERMEDIATE MEMBERS SHALL BE CONFIGURED AS TO PROHIBIT PASSING A 4" DIAMETER SPHERE THROUGH ANY OPENING.

7. GUARDRAILS SHALL BE A MINIMUM OF 36" ABOVE FINISH FLOOR.

8. GUARDRAIL INTERMEDIATE MEMBERS SHALL BE CONFIGURED AS TO PROHIBIT PASSING A 4" DIAMETER SPHERE THROUGH ANY OPENING.

GLAZING NOTES

1. ALL GLAZING TO BE (2) PANE INSULATED GLASS OR BETTER UNLESS NOTED OTHERWISE.

2. SLIDING DOORS TO BE SAFETY GLASS, LAMINATED GLASS, OR TEMPERED GLASS.

3. SHOWER DOORS AND ENCLOSURES TO BE SAFETY GLASS, LAMINATED GLASS, OR TEMPERED GLASS.

4. REFER TO WINDOW SCHEDULE FOR ADDITIONAL REQUIREMENTS.

JOSH RECOMMENDS CARDINAL GLASS W/ COATINGS AS SPECIFIED IN SHOP DRAWINGS.

BATHROOM NOTES

1. WALL COVERINGS IN SHOWERS TO BE MOISTURE RESISTANT MATERIAL TO 72" (Minimum) ABOVE DRAIN INLET.

2. TOILET TO HAVE CLEAR SPACE OF 30" WIDE (Minimum) AND 24" CLEAR (Minimum) IN FRONT OF STOOL

INSPIRATIONAL COMMENTS

1. THIS PROJECT IS NOT A SPEC HOME. WE TAKE A LOT OF PRIDE IN CREATING A SPECIAL BUILDING CUSTOMIZED FOR THIS CLIENT, AND WE HOPE YOU WILL DO THE SAME. LET'S WORK TOGETHER TO DO SOMETHING SPECIAL.

2. ALL WORK IS REQUIRED TO EXCEED YOUR ORDINARY LEVEL OF SATISFACTION. WE ARE EXCITED TO SHOW THIS PROJECT TO OUR FRIENDS AND FAMILY, AND WE HOPE YOU WILL SHARE THAT EXCITEMENT.

3. JUST BECAUSE SOMETHING WAS BUILT A CERTAIN WAY BEFORE, DOES NOT MEAN IT NEEDS TO BE BUILT A CERTAIN WAY NOW. THINK A LITTLE DIFFERENTLY, AND BE CREATIVE. EVERY CIRCUMSTANCE IS DIFFERENT. BUILD UPON YOUR PREVIOUS EXPERIENCES TO DO BETTER AND HONE YOUR SKILLS EVEN MORE. EVERY DETAIL IS A CHANCE TO PUSH YOUR LIMITS.

4. BE WILLING TO LEARN SOMETHING NEW AND TEACH SOMETHING NEW SINCE WE ARE ALL LEARNING AT ALL

DRAWING LEGEND					
SYMBOL	DESCRIPTION	REMARKS			
2	WINDOW SYMBOL	See Window Schedule			
A	DOOR SYMBOL	See Door Schedule			
202	SPACE NUMBER	See Finish Schedule			
2	GRID LINE				
A-12	MATCH LINE				
40'-8" T.O. Slab	VERTICAL DATUM POINT				
Stone Wood	SURFACE MATERIAL CHANGE				
DWG	DETAIL REFERENCE				
DWG	SECTION CUT REFERENCE				
1 4 SHT 2	INTERIOR ELEVATION REFERENCE	See Interior Elevations			

MATERIAL SYMBOL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	EARTH / COMPACT FILL		ROUGH WOOD FRAMING		
00000	GRAVEL / POROUS FILL		WOOD BLOCKING		
A	CONCRETE		PLYWOOD		
	CMU / BRICK / STONE VENEER		FINISH WOOD		
	GYPSUM WALL BOARD / PLASTER		BATT INSULATION		
	STEEL OR OTHER METALS		RIGID INSULATION		
	NATURAL STONE				

ABBREVIATION LIST

ABV	ABOVE	MAX	MAXIMUM
AC	AIR CONDITIONING	MB	MACHINE BOLT
ACT	ACOUSTICAL TILE ABOVE FINISH FLOOR	MECH	MECHANICAL MANUFACTURER
AFF	ALTERNATE	MANUF	MAKE IT LOOK PRETTY
ALT	ALTERNATE	MILP	MINIMUM
ALUM ARCH	ARCHITECT/ARCHITECTURAL	MIN MISC	MISCELLANEOUS
AROH	71101111201711120101112	MTL	METAL
BLDG	BUILDING		
BMAB	BUY ME A BEER	N	NORTH
BSMT	BASEMENT	(N)	NEW
BTB	BURY THE BODIES	NA	NOT APPLICABLE
		NIC	NOT IN CONTRACT
CAB	CABINET	NOM	NOMINAL
CL	CENTER LINE	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	0/	OVER
COL	COLUMN	OC	ON CENTER OUTSIDE DIAMETER
CONC	CONCRETE CONSTRUCTION	OD	OVERFLOW DRAIN
CONST CONT	CONTINUOUS	OD	OVERT LOW BIXAIN
CONT	CARPET	(P)	PROPOSED
CRV	CONTINUOUS RIDGE VENT	PERF	PERFORATED
CSMT	CASEMENT	PERP	PERPENDICULAR
CY	CUBIC YARD	PL	PROPERTY LINE
•		PLAM	PLASTIC LAMINATE
d	PENNY	PLY	PLYWOOD
D	DRYER	PSF	POUNDS PER SQUARE FOOT
(D)	DEMOLITION	PSI	POUNDS PER SQUARE INCH
DAFD	DON'T ASK FOR DETAIL	PT	PRESSURE TREATED
DBAB	DON'T BE A BABY	PTD	PAINTED
DQTA	DON'T QUESTION THE ARCHITECT		
DBL	DOUBLE	QTY	QUANTITY
DCU	DON'T CALL US	R	RADIUS
DIA	DIAMETER	R	RISER
DIM	DIMENSION	RD	ROOF DRAIN
DL	DEAD LOAD DOWN	REF REINF	REFRIGERATOR REINFORCING
DN DS	DOWN DOWNSPOUT (EXTERIOR)	REQ	REQUIRED
DTL	DETAIL	RH	RIGHT HAND
DW	DISHWASHER	RM	ROOM
DWG	DRAWING	RO	ROUGH OPENING
DWO	Diviviito	RV	RIDGE VENT
E	EAST		14502 12111
_ (E)	EXISTING	S	SOUTH
ÈÁ	EACH	SCHED	SCHEDULE
ELEC	ELECTRIC	SF	SQUARE FOOT
ELEV	ELEVATION	SHMTL	SHEET METAL
ENG	ENGINEER	SIM	SIMILAR
EQ	EQUAL	SPECS	SPECIFICATIONS
EQUIP	EQUIPMENT	SQ	SQUARE
EXIST	EXISTING	STD	STAINED
EXT	EXTERIOR	STL	STEEL
	ELOOP PRAIN	STOR	STORAGE
FF FIN	FLOOR DRAIN	STRUCT	STRUCTURAL
FLASH	FINISH FLASHING	SYM	SYMBOL
FT	FOOT/FEET	Т	TREAD
FTG	FOOTING	TEL	TELEPHONE
. 10	10011110	TEMP	TEMPERED
GA	GAUGE	TEMP	TEMPERATURE
GAL	GALLON	T&G	TONGUE AND GROOVE
GALV	GALVANIZED	TO	TOP OF
GFI	GROUND FAULT INTERRUPTER	TOP	TOP OF PLATE
GLB	GLU-LAMINATED BEAM	TOS	TOP OF SLAB
GWB	GYPSUM WALL BOARD	TOW	TOP OF WALL
GYP	GYPSUM	TV	TELEVISION
LIDIAG	LIARRIMOOR	TWD	TRAIN WRECK
HDWD	HARDWOOD	TYP	TYPICAL
HR	HOUR	UNO	LINE FOR NOTED OTHERWICE
HT HW	HEIGHT HOT WATER TANK	UCS	UNLESS NOTED OTHERWISE USE COMMON SENSE
1100	HOT WATER TANK	000	USE COMMON SENSE
IBC	INTERNATIONAL BUILDING CODE	VCT	VINYL COMPOSITION TILE
IRC	INTERNATIONAL RESIDENTIAL CODE	VER	VERIFY
ID	INSIDE DIAMETER	VERT	VERTICAL
IDS	INTERIOR DOWNSPOUT	VG	VERTICAL GRAIN
IN	INCH		
INSUL	INSULATION	W	WEST
INT	INTERIOR	W	WATT
		W	WIDTH
JDI	JUST DO IT	W/	WITH
1 0 5 4		W/O	WITHOUT
LAM	LAMINATED	WD	WOOD
LB	POUNDS	WP	WATERPROOF
LF L	LINEAL FOOT	WR	WATER RESISTANT
LH LL	LEFT HAND	WRB WT	WEATHER RESISTANT BARRIER
	LIVE LOAD	WWJD	WEIGHT WHAT WOULD JOSH DO
		WWM	WHAT WOULD JOSH DO WELDED WIRE MESH
			VALUED WITH WILOTT
		YD	YARD
		YD	YARD
		YD	YARD

MAXIMUM

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JOSH PS

DESIGN SJB DRAWN SJB CHECKED SJB DATE [2019-0114 DESIGN] [2019-0621 PERMIT] [2020-0211 REV 1]

JOSH PS POLICIES

1. DO NOT USE BIFOLD DOORS FOR CLOSETS

2. DO NOT USE MATERIALS WITH WOOD GRAIN UNLESS THE MATERIAL IS WOOD

3. DO NOT USE GLASS BLOCK

4. METAL FABRICATION ONLY TO BE DONE BY GEORGETOWN METALWORKS UNLESS APPROVED OTHERWISE 5. DO NOT USE WHITE WINDOWS UNLESS APPROVED OTHERWISE

6. DO NOT PURCHASE APPLIANCES, DOORS, OR WINDOWS (OR ANY MATERIAL) WITHOUT JOSH APPROVAL 7. DO NOT TEAR DOWN ANY BUILDING OR LANDSCAPING UNLESS APPROVED OTHERWISE

8. DO NOT PUT STRUCTURE (JOISTS/RAFTERS/BEAMS) IN THE CENTER OF A HALL OR ROOM - WE PUT LIGHTING THERE 9. DO NOT USE ELECTROLUX OR FRIGIDAIRE APPLIANCES 10. DO NOT BEGIN CONSTRUCTION UNTIL THE FINAL PLANS HAVE BEEN REVIEWED WITH JOSH ARCHITECTS

11. INSTALL J BOXES FOR AN ELECTRICAL WALK-THROUGH WITH JOSH AND CLIENT PRIOR TO RUNNING WIRES 12. DO NOT LEAVE SPACES LESS THAN 2" BETWEEN TRIM(S) AND OTHER OBJECTS - WE WILL DESIGN WIDER TRIM OR SOME OTHER SOLUTION. 13. DO NOT TALK WITH THE BUILDING DEPARTMENT UNLESS YOU HAVE FIRST CONSULTED WITH JOSH

14. AESTHETICS OR STYLE ARE NOT PART OF OUR DESIGN PROCESS, SO PLEASE BASE DECISIONS ON PRACTICAL SOLUTIONS 15. THE BUILDER IS ENCOURAGED TO WEIGH-IN ON MORE EFFECTIVE AND EFFICIENT CONSTRUCTION METHODS AND

SUGGEST BETTER WAYS OF BUILDING TO THE ARCHITECT 16. DIFFERENT MATERIALS MAY NOT BE COPLANAR (FLUSH) 17. BUILDING PAPER (OR HOUSE WRAP) MAY NOT BE EXPOSED FOR LONGER THAN A WEEK, OR IT SHOULD BE REPLACED

18. LIQUID APPLIED WATERPROOFING (PROSOCO OR SIMILAR) IS HIGHLY RECOMMENDED OVER PAPER WEATHER BARRIERS 19. DO NOT INSTALL SOLAR PANELS UNTIL THE BUILDING HAS FIRST BEEN SUPER-INSULATED AND WRAPPED WITH

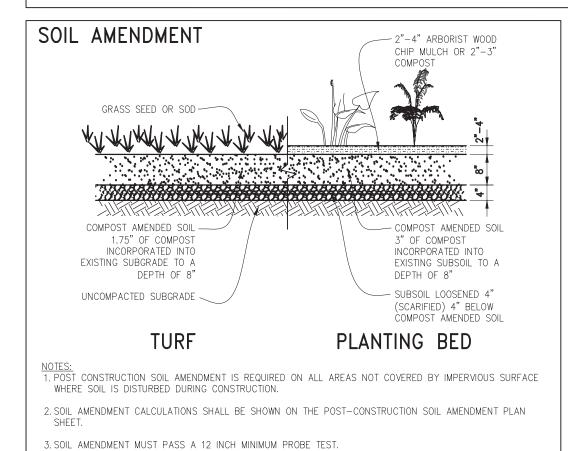
INSULATION BOARD (REFLECTIVE SIDE FACING INTERIOR) WITH TAPED SEAMS 20. DISCUSS ANY UNCLEAR INFORMATION WITH JOSH AS SOON AS POSSIBLE, BE RESPONSIVE, AND BE A TEAM PLAYER MERCER ISLAND WA 98040 21. ROOF FASCIAS NOT TO EXCEED 10" IN HEIGHT

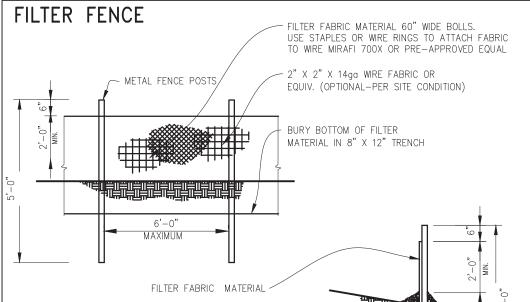
CODES REFERENCED 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) 2015 INTERNATIONAL BUILDING CODE (IBC) 2015 INTERNATIONAL MECHANICAL CODE (IMC) 2015 WASHINGTON STATE ENERGY CODE (WSEC) 7505 92ND AVE SE

PERMIT

GENERAL NOTES

CONSTRUCTION STORMWATER CONTROL STANDARD DETAILS





FILTER FABRIC MATERIAL

BACKFILL WITH NATIVE SOIL

MATERIAL

OR GRAVEL BACKFILL IN

TRENCH AND

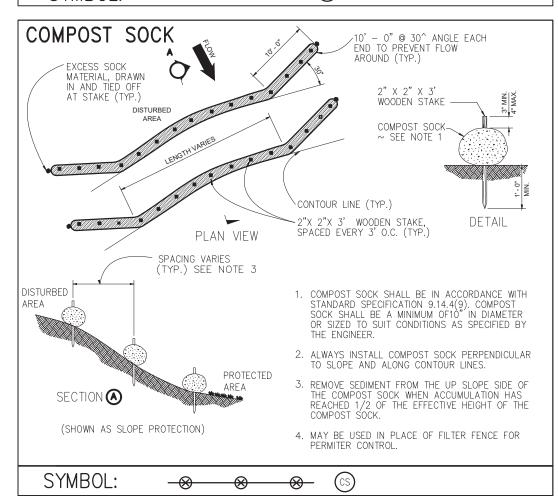
ON BOTH SIDES OF FENCE

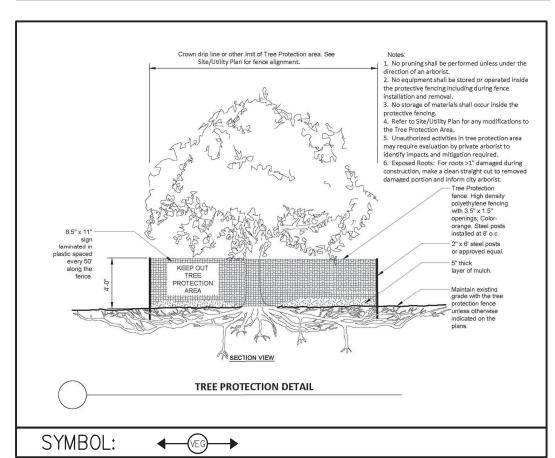
FABRIC ON THE SURFACE

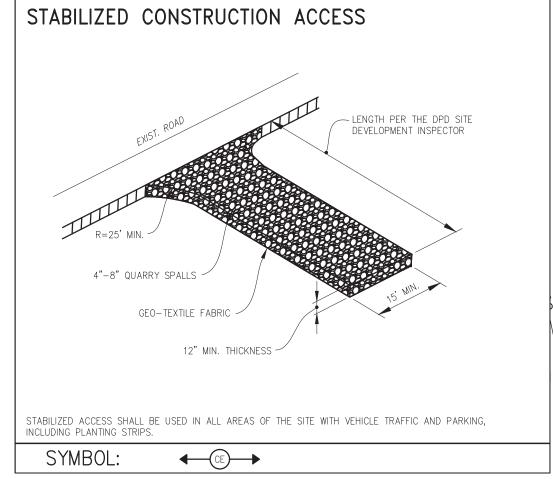
NOTE: ANGLE SILT FENCE BACK UP THE SLOPE AT THE END OF RUN.

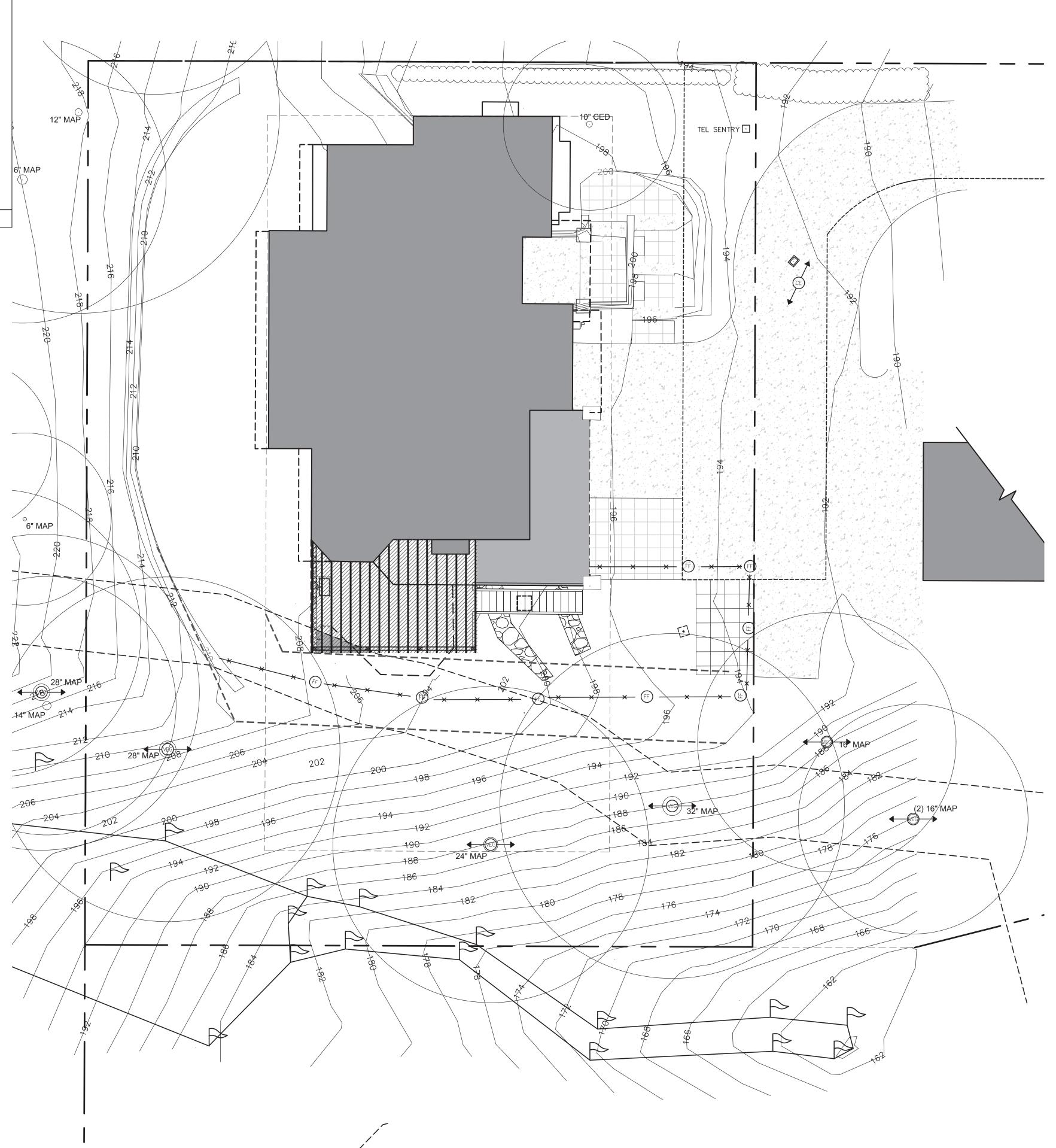
SYMBOL: -× × FF

SYMBOL: (T) (P1) (T2) AND/OR (P2)









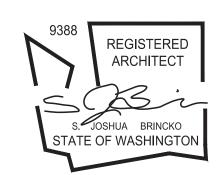


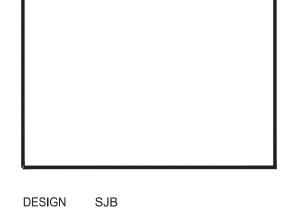
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CHECKED SJB

DATE [2019-0114 DESIGN]

[2019-0621 PERMIT]

[2020-0211 REV 1]

LAI 7505 92ND AVE SE MERCER ISLAND WA 98040

PERMIT

CSC

A1.2

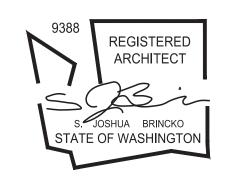
SYMBOL	DESCRIPTION	REMARKS			
(cfm)	EXHAUST FAN	See Mechanical Plans			
⊙ SA	SMOKE ALARM	See Sheet A-C General Notes Fire Protection Section			
	NEW WALL (Line of Studs)	2x studs @ 16" O.C.			
	NEW SOUND WALL	Staggered 2x studs with rock wool sound batts			
	EXISTING TO REMAIN				
C===3	EXISTING TO REMOVE				
GENERAL PROPOSED NOTES					
(D) = DEMOLITION (E) = EXISTING (P) = PROPOSED					
-(P) HEATER -(P) MOTORIZED SCREENS -(P) RAILING CONSISTENT WITH STYLE OF EXISTING -(P) CEDAR CEILING WITH RECESSED CANS TO MATCH (E) ENTRY -					

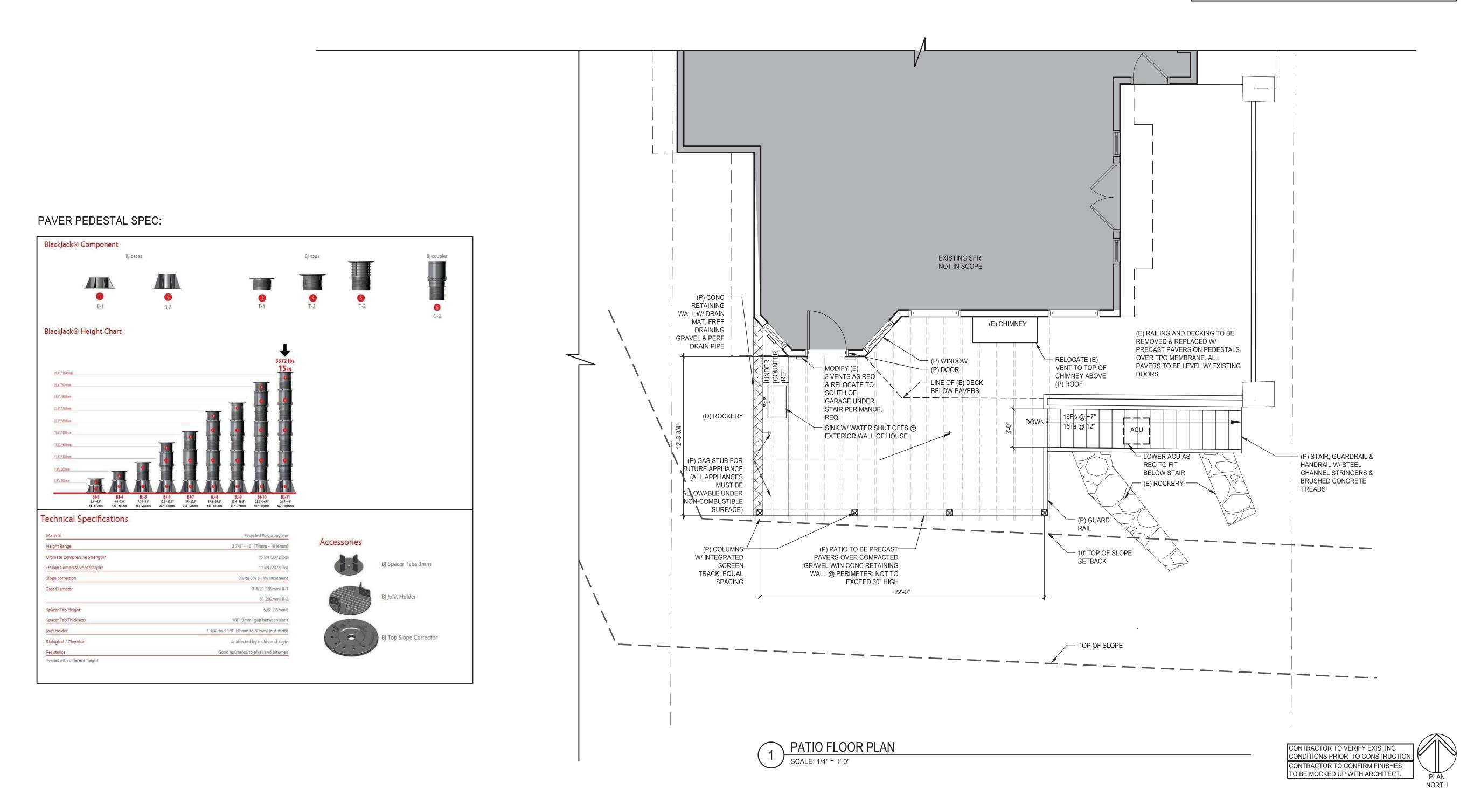
ARTISAN + ARCHITECT

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DESIGN SJB

DRAWN CEC CHECKED SJB DATE [2019-0114 DESIGN] [2019-0621 PERMIT] [2020-0211 REV 1]

LAI 7505 92ND AVE SE MERCER ISLAND WA 98040

PERMIT

MAIN FLOOR PLAN

ARCHITECT REQUIRES A MEETING WITH THE LABORERS INSTALLING SIDING AT THE BEGINNING OF THE FIRST WORKDAY TO EXPLAIN SIDING DETAILS AND SUBSEQUENT MEETINGS FOR EACH DIFFERENT SIDING MATERIAL TO BE INSTALLED.





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S. JOSHUA BRINCKO STATE OF WASHINGTON

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ELEVATIONS

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION

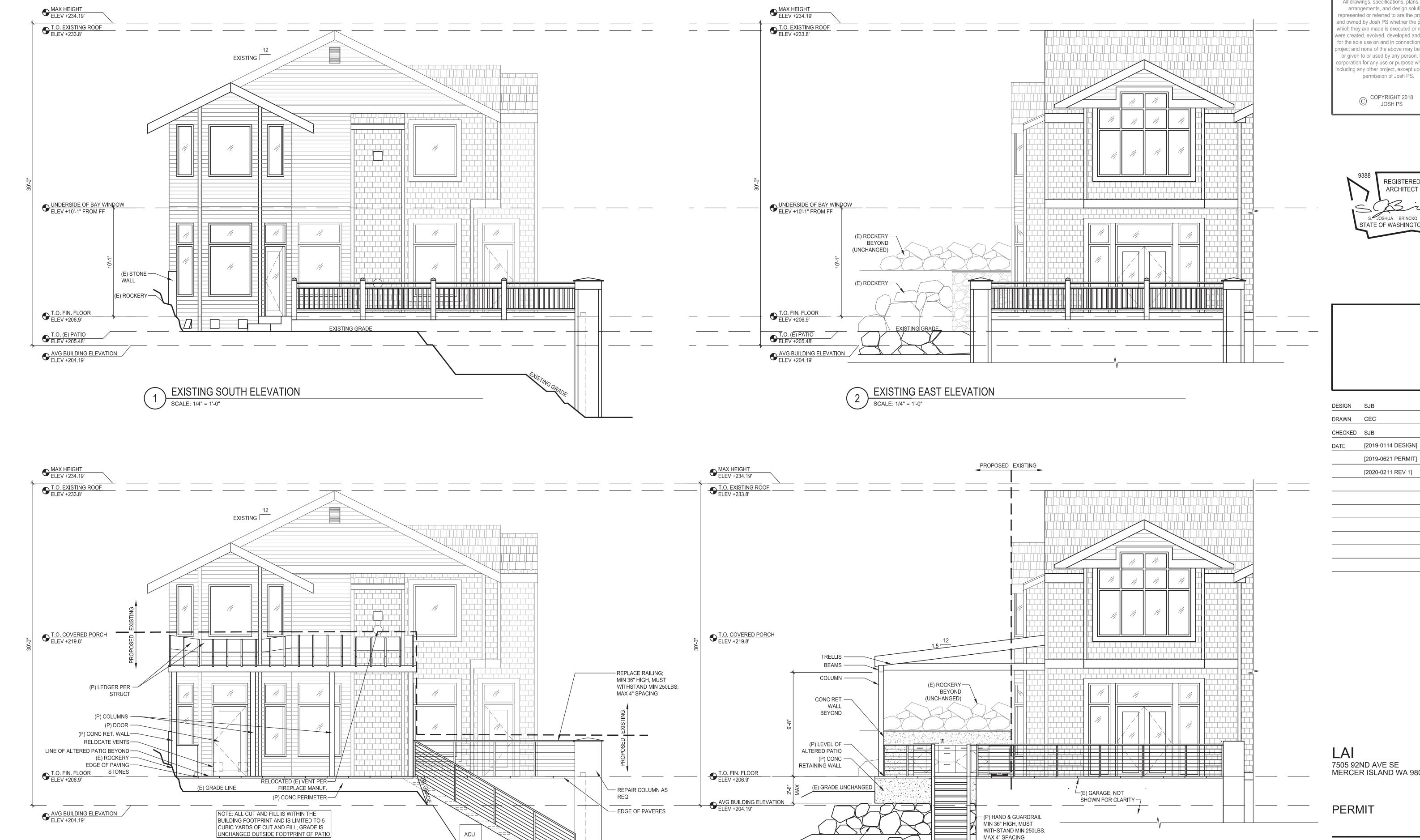
CONTRACTOR TO CONFIRM FINISHES TO BE MOCKED UP WITH ARCHITECT.

MAX 4" SPACING

PROPOSED EAST ELEVATION

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

(E) ROCKERY-(UNCHANGED)



PROPOSED SOUTH ELEVATION

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



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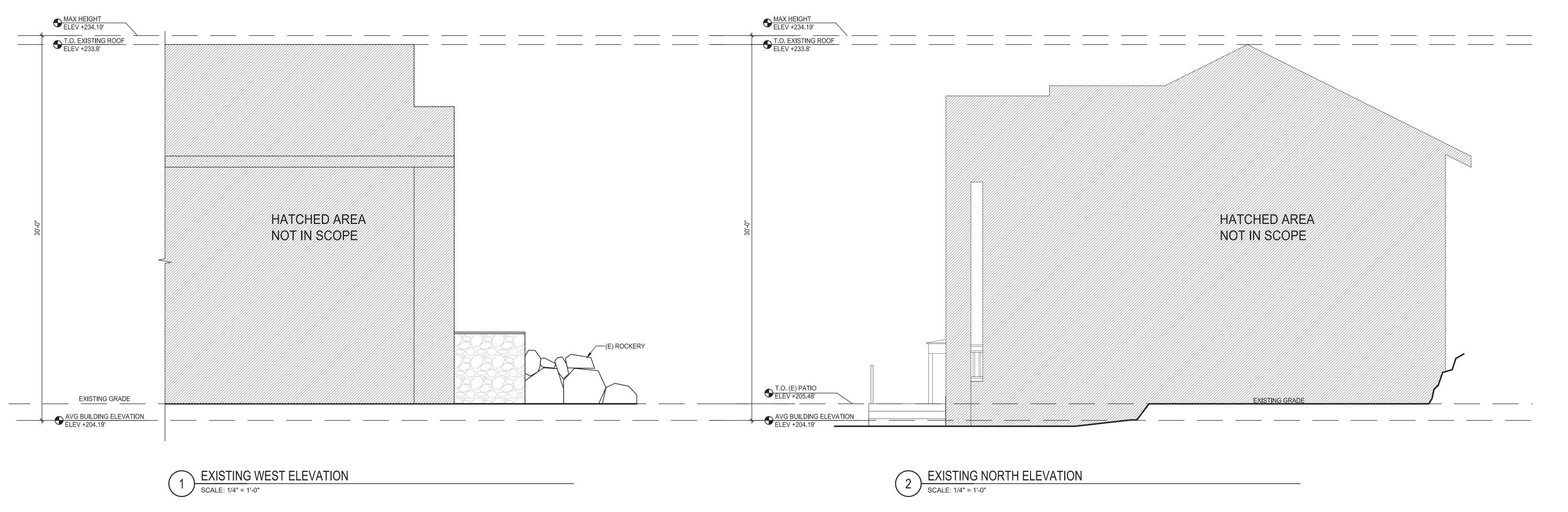
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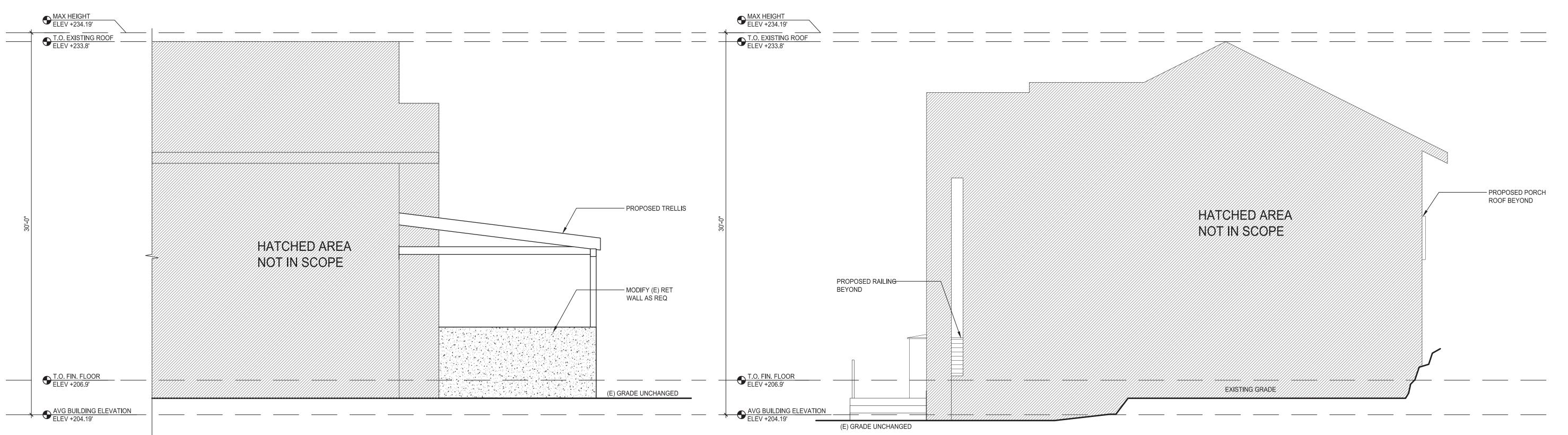
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ELEVATIONS

CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION

CONTRACTOR TO CONFIRM FINISHES TO BE MOCKED UP WITH ARCHITECT.





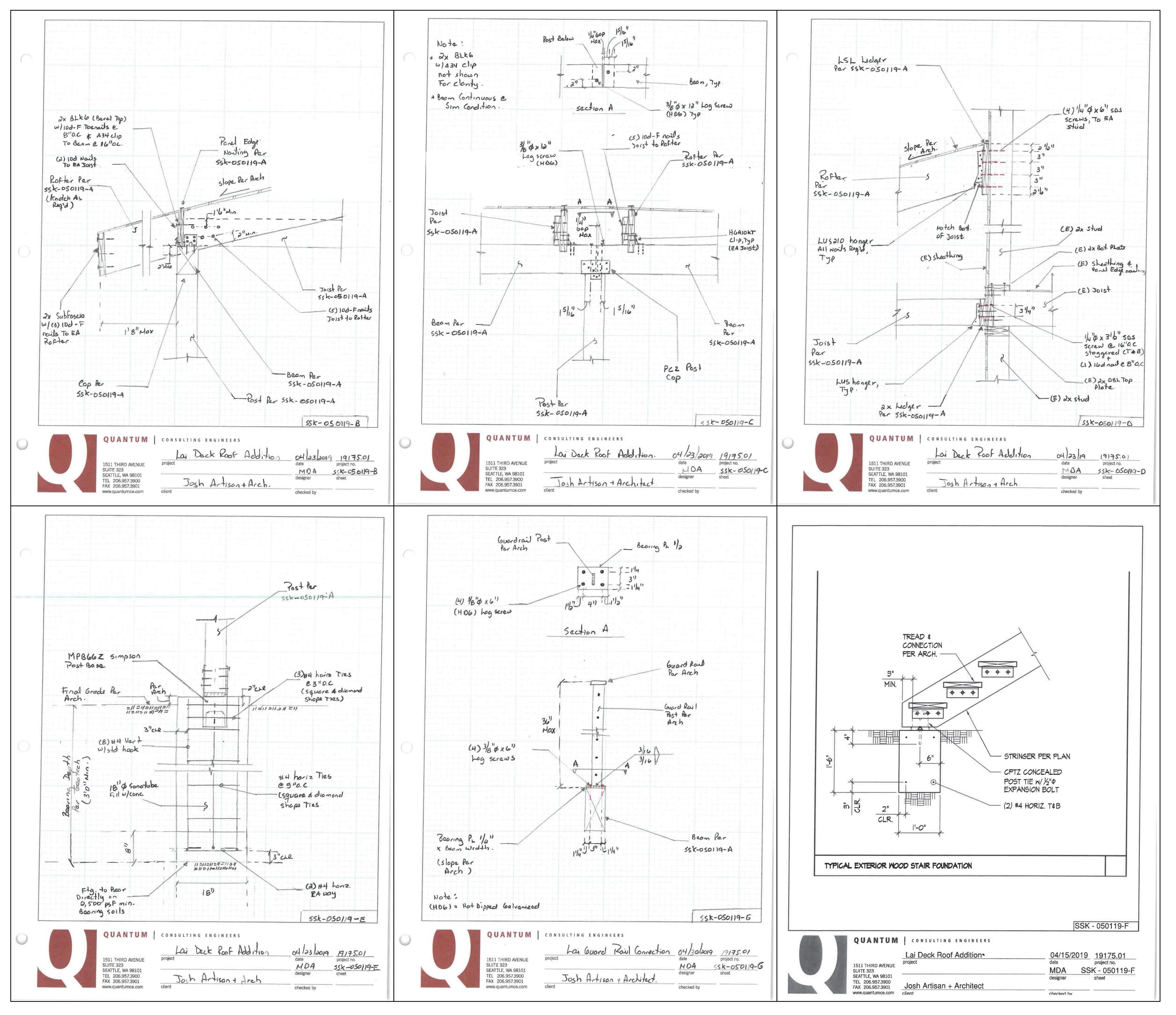
PROPOSED WEST ELEVATION

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

PROPOSED NORTH ELEVATION

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

SHEATHING OMITTED FROM SCOPE

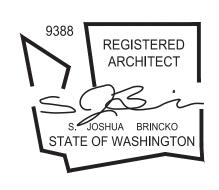


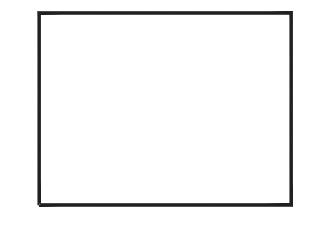
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[2020-0211 REV 1]

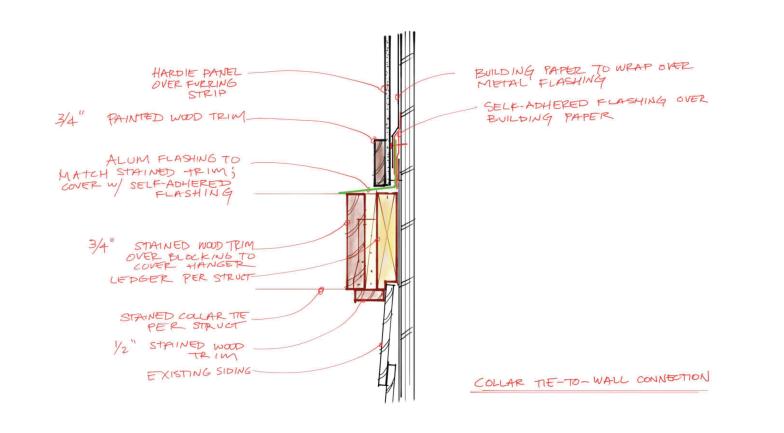
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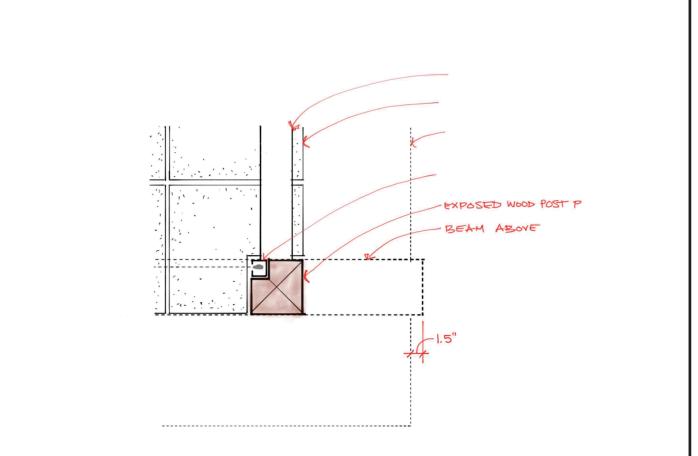
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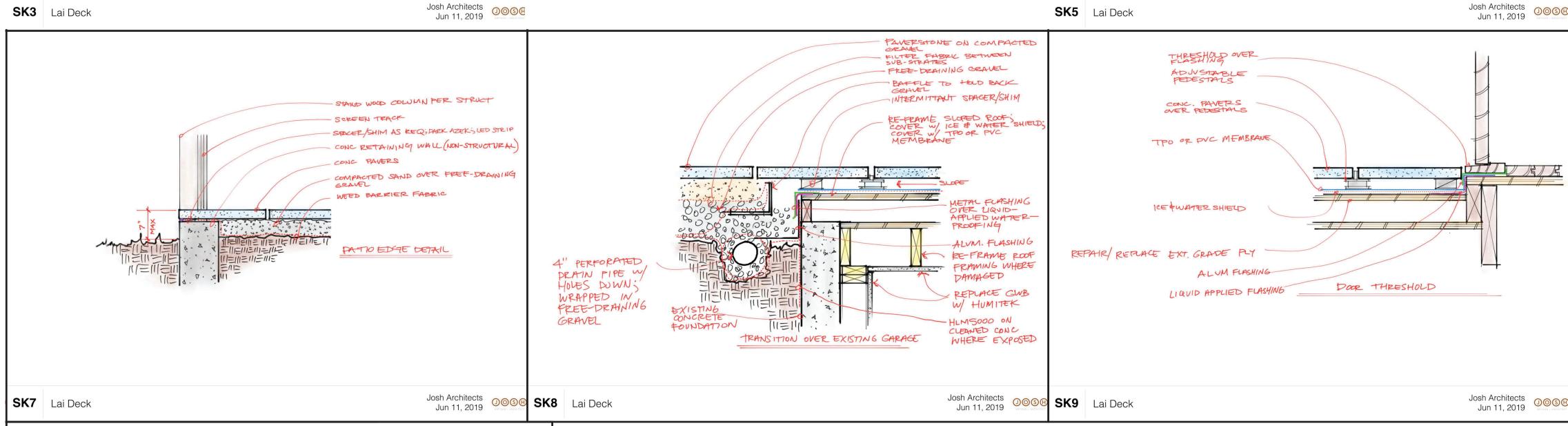
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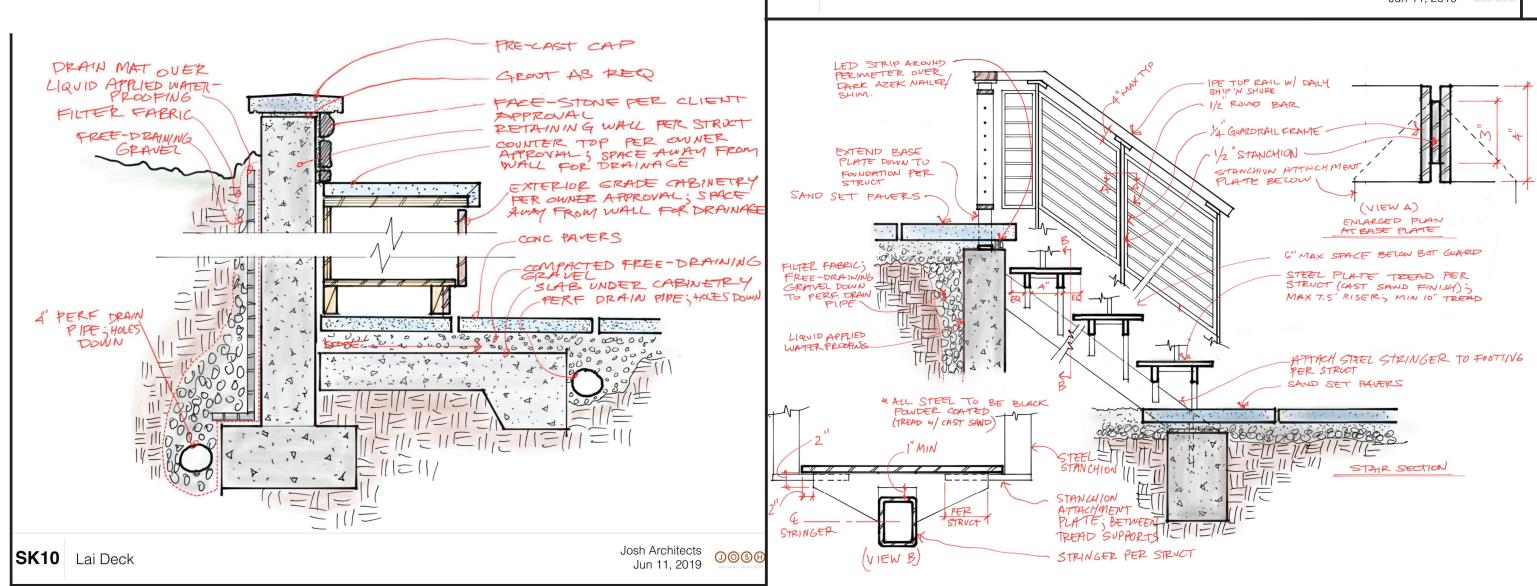
DETAILS

0.8A







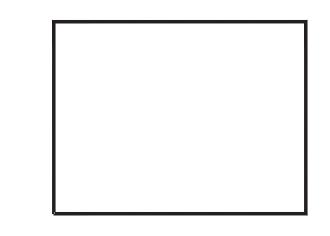




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[2020-0211 REV 1]

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PERMIT

TYPICAL DETAILS

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CRITERIA

- I. <u>ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION</u> SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- 2. THIS STRUCTURE DOES NOT CONFORM TO PRESENT EARTHQUAKE CODE REQUIREMENTS. IT HAS BEEN ANALYZED AND REINFORCED FOR MINIMUM MAINTENANCE IN ACCORDANCE WITH THE INTERNATIONAL EXISTING BUILDING CODE (IEBC) SECTIONS 402, 403 & 404 AND IS WITHIN THE CURRENT PRACTICE FOR THE RENOVATION OF EXISTING BUILDINGS OF THIS AGE AND TYPE OF CONSTRUCTION. THIS STRUCTURE HAS NOT BEEN ANALYZED OR DESIGNED FOR A COMPLETE SEISMIC UPGRADE.
- 3. <u>DESIGN LOADING CRITERIA</u>

GUARDRAILS/BALCONY RAILS (ONE OR TWO UNIT DWELLING) 200

SNOW	ROOF SNOW LOAD = 25 PSF
	GROUND SNOW LOAD = 20 PSF
	EXPOSURE Ce = 1.00
	IMPORTANCE FACTOR Is = 1.00
	THERMAL FACTOR Ct = 120

WIND ANALYSIS PROCEDURE: ASCE 7-10 CHAPTER 30 "PART V COMPONENTS AND CLADDING-OPEN STRUCTURES"
RISK CATEGORY II
IIO MPH
EXPOSURE "C"
TOPOGRAPHIC FACTOR Kzt = 1.0

ROOFING DESIGN PRESSURE NOT AT A CORNER (MAX.)

. . . 54 PSF

THE DESIGN WIND PRESSURES LISTED ABOVE ARE INWARD OR OUTWARD AND ARE BASED ON AN EFFECTIVE WIND AREA OF IO SQUARE FEET NEAR A BUILDING CORNER, U.O.N. CORNER AND OTHER ZONES ARE DEFINED BY FIGURE 30.5-I IN ASCE 7-IO. REDUCED DESIGN PRESSURES MAY BE CALCULATED USING ASCE 7. NOTE THAT THE DESIGN WIND PRESSURES NOTED ABOVE ARE ULTIMATE VALUES PER THE 2015 IBC AND SHALL BE MULTIPLIED BY 0.6 FOR ALLOWABLE STRESS DESIGN.

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- 4. <u>STRUCTURAL DRAWINGS</u> SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 5. <u>CONTRACTOR</u> SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- 6. <u>CONTRACTOR</u> SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 7. <u>CONTRACTOR</u> SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 8. <u>CONTRACTOR-INITIATED CHANGES</u> SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION, CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 9. <u>DRAWINGS</u> INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.
- IO. <u>ALL STRUCTURAL SYSTEMS</u> WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- I. <u>DEFERRED SUBMITTALS OF DESIGN BUILD COMPONENTS</u> SHALL BEAR THE STAMP AND SIGNATURE OF A STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE AND SHALL INCLUDE DESIGN CALCULATIONS WITH THE ENGINEER'S STAMP.

THE FOLLOWING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT: GUARDRAILS

12. SPECIAL INSPECTION: EXPANSION BOLTS AND THREADED EXPANSION INSERTS, EPOXY GROUTED INSTALLATIONS, SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTIONS 1704 & 1705 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

GEOTECHNICAL

13. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 36" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT.

GEOTECHNICAL REPORT REFERENCE: #19-056 BY PAN GEO, DATED MARCH 19, 2019

RENOVATION

- 14. <u>DEMOLITION</u>: VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE SAVED WHERE AND AS NOTED ON THE PLANS. SAW CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORCING THAT IS TO BE SAVED. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.
 - A. ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE.
- B. VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMBERS PRIOR TO CUTTING ANY OPENINGS.
- C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSIBLE.
- D. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, REBAR DOWELS EPOXIED INTO THE EXISTING CONCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS OTHERWISE NOTED ON PLANS.

THE RESULTS OF THE TEST ARE TO BE SUBMITTED TO THE MERCER ISLAND BUILDING DEPARTMENT, ALONG WITH A LETTER FROM THE STRUCTURAL ENGINEER OUTLINING THE PROPOSED ALLOWABLE SHEAR STRESS, FACTOR OF SAFETY AND MAXIMUM ACTUAL ANTICIPATED SHEAR STRESS.

15. <u>CHECK FOR DRYROT</u> AT ALL EXTERIOR WALLS. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

CONCRETE

16. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI IIT. CONCRETE SHALL ATTAIN A 28 DAY STRENGTH OF I'C = 2,500 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR FOOTINGS AND 0.45 FOR ALL SLABS AND EXPOSED CONCRETE UNLESS OTHERWISE NOTED. EXCEPT FOR FOOTINGS AND SLAB ON GRADE, AGGREGATE SIZE SHALL NOT EXCEED 3/4".

THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT OF MERCER ISLAND FOR APPROVAL TWO MEEKS PRIOR TO PLACING ANY CONCRETE. (THE W/C RATIO LIMITS STILL APPLY). THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR ENTRAINED WITH AN AIR ENTRAINING AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE EXPOSED TO THE WEATHER AND ALL GARAGE SLABS-ON-GRADE SHALL OBTAIN A 28-DAY STRENGTH I'C OF 3,000 PSI IN ACCORDANCE WITH ACI 318 TABLE 19.3.2.1 AND IBC SECTION 1904.1. THIS INCREASE IN REQUIRED STRENGTH IS FOR DURABILITY ONLY (SPECIAL INSPECTION IS NOT REQUIRED). ALL CONCRETE TO RECEIVE A STEEL TROWELED FINISH SHALL NOT BE AIR-ENTRAINED.

17. <u>REINFORCING STEEL</u> SHALL CONSIST OF #4 BARS CONFORMING TO ASTM A615, GRADE 40, fy = 40,000 PSI AND SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT 48 BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS, LAP 2'-0" MINIMUM. PROVIDE (2) #4 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLABS EXTENDING 2'-0" PAST CORNERS, TYPICAL.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO REINFORCING BARS SHALL BE "WET-SET" INTO THE CONCRETE, PROVIDE A 20' LONG REBAR GROUND (UFER GROUND) PER ELECTRICIAN.

<u>ANCHORAGE</u>

- 19. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
- 20. <u>EPOXY-GROUTED ITEMS</u> (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "SET-3G" ADHESIVE ANCHOR AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-4057, INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

MOOI

21. <u>FRAMING LUMBER</u>: SHALL BE KILN DRIED OR MC-19 (MOISTURE CONTENT LESS THAN 19%), AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD NO. 17 GRADING RULES FOR WEST COAST LUMBER. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

BEAMS AND STRINGERS: (INCLUDING 6 X AND LARGER MEMBERS)

POSTS AND TIMBERS:

DOUGLAS FIR NO. I

STUDS, PLATES & MISCELLANEOUS LIGHT FRAMING:

DOUGLAS FIR NO. 2

(AS NOTED ON PLANS / DETAILS)

22. <u>LAMINATED STRAND LUMBER (LSL)</u> SHALL BE DESIGNED AND MANUFACTURED PER ASTM D5456. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO. ALL LAMINATED STRAND LUMBER SHALL BE MANUFACTURED USING A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559. MINIMUM STRUCTURAL PROPERTIES ARE AS FOLLOWS:

BEAMS AND LEDGERS: $F_b = 2325 \text{ PSI, E} = 1.55 \times 10^6 \text{ PSI, F}_V = 310 \text{ PSI}_V$

JOISTS: (2X, 3X, AND 4X MEMBERS).

DESIGN SHOWN ON PLANS IS BASED ON MATERIALS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.

23. <u>MOOD SHEATHING</u> SHALL BE APA RATED, EXTERIOR GLUE; EXPOSURE I, IN CONFORMANCE WITH THE REQUIREMENTS FOR THEIR TYPE IN DOC PS-I OR PS-2. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS.

UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH FACE GRAIN PERPENDICULAR TO SUPPORTSALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE AND GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW I/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH (2) IOd-F NAILS AT EACH END, UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPACED PER PLANS. WHERE NOT NOTED OTHERWISE, NAIL PANEL EDGES WITH 8d NAILS @ 6" O.C. EDGES, I2" O.C. IN THE FIELD.

- 24. <u>ALL WOOD</u> EXPOSED TO WEATHER, OR BEARING ON UNPROTECTED CONCRETE BELOW GRADE, OR BEARING ON UNPROTECTED CONCRETE LESS THAN 8" FROM EXPOSED EARTH SHALL BE PRESSURE TREATED, U.O.N. PRESSURE TREATMENT SHALL BE WITH AN APPROVED PRESERVATIVE AND BRANDED WITH A QUALITY CONTROL AGENCY MARK BY THE AMERICAN WOOD PRESERVERS BUREAU OR EQUAL. ALL METAL HARDWARE IN CONTACT WITH TREATED WOOD SHALL BE PROTECTED WITH A GI85 GALVANIZED COATING (ZMAX) OR BETTER. ALL NAILS IN TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR BETTER. PROVIDE 2 LAYERS OF 30# ASPHALT IMPREGNATED BUILDING PAPER BETWEEN NON-PRESSURE-TREATED LEDGERS, BLOCKING, ETC., AND CONCRETE
- 25. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NO. C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE I.C.C. OR IAPMO UES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. CONNECTORS SHALL BE SIZED TO MATCH THE SIZE OF THE FRAMING MEMBERS BEING CONNECTED. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A301. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL BOLTS TIGHTENED TO SNUG TIGHT.



1511 THIRD AVENUE SUITE 323 SEATTLE, WA 98101 TEL 206.957.3900 FAX 206.957.3901 www.quantumce.com

SEAL:

DOUGLAS FIR NO. 2



PROJECT:

LAI DECK ROOF ADDITION

7505 92ND AVE SE MERCER ISLAND WA 98040

APPROVAL:

PERMIT SET

NO. DESCRIPTION

ISSUES:

P.M.

P.E.

JHW

DRAWN BY:

TTH

SCALE:

AS SHOWN

DATE:

TTH

GENERAL STRUCTURAL NOTES

SHEET NO.

JOB NO.

SHEET TITLE:

S1.C

19175.01

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

MOOD CONTINUED

26. MOOD FASTENERS:

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

Drawing ID Nail Name Nail Diameter Nail Length
"6d" 6d Common O.113" 2"
"8d Box" 8d Box O.113" 2-1/2"
"8d" 8d Common O.131" 2-1/2"
"10d-F" 10d Framer O.131" 3"
"10d" 10d Shear O.148" 2-1/4"
"16d" 16d Sinker O.148" 3-1/4"
IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS
TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

- B. <u>NAILS</u> SHEATHING FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.
- C. <u>SCREMS</u> SHALL BE MOOD SCREMS OF THE DIAMETER AND LENGTH NOTED ON THE DRAWINGS, SDS FASTENERS ARE SIMPSON STRONG DRIVE SCREWS.
- D. HOT DIPPED GALVANIZED NAILS, BOLTS AND METAL PLATES ALL NAILS, BOLTS AND METAL PLATES IN CONTACT WITH PRESSURE TREATED (INCLUDING FIRE-RETARDANT TREATED) LUMBER SHALL BE HOT DIPPED GALVANIZED.
- 27. <u>MOOD FRAMING NOTES</u>: THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:
 - A. ALL <u>MOOD FRAMING DETAILS</u> NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE IBC. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.IO.I. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. TIGHTEN BOLTS AND LAG SCREWS SNUGLY AGAINST WOOD FRAMING AFTER WOOD HAS REACHED SPECIFIED MOISTURE CONTENT.
- B. <u>ROOF FRAMING</u>: PROVIDE DOUBLE JOISTS AROUND ALL OPENINGS IN ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS, NAIL ALL MULTI JOIST BEAMS TOGETHER WITH IOD-F NAILS @ 8" O.C. STAGGERED UNLESS OTHERWISE NOTED.
- C. <u>POSITIVE CONNECTIONS</u>: PROVIDE THE FOLLOWING SIMPSON CONNECTORS AT TYPICAL FRAMING UNLESS OTHERWISE NOTED ON PLAN OR DETAIL. PROVIDE CCQ/ECCQ CAPS AND PBS BASES AT POSTS. PROVIDE BC BASE WHERE POST BEARS ON WOOD FRAMING BELOW. PROVIDE LUS SERIES HANGERS FOR 2X FLOOR AND ROOF JOISTS. CONNECTORS SHALL BE SIZED TO MATCH THE SIZE OF THE FRAMING MEMBERS BEING CONNECTED. All CONNECTORS EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH PRESSURE TREATED WOOD, SHALL BE HOT DIPPED GALVANIZED.

ABBREVIATIONS					
@	At Banny (Neila)	L	Angle		
d Ø	Penny (Nails) Diameter	LLH	Live Load Long Leg Horizontal		
		LLV	Long Leg Vertical		
A.B. ADD'L	Anchor Bolt Additional	LONGIT. LT. WT.	Longitudinal Lightweight		
ALT.	Alternate	=1,711.	2 2		
APPROX ARCH.	X. Approximate Architect	MATL. MAX.	Material		
ARCH.	Architect	MECH.	Maximum Mechanical		
B.U.	Built-up	MEZZ	Mezzanine		
B/ BF	Bottom of Braced Frame	MF MFR.	Moment Frame Manufacturer		
BLKG.	Blocking	MIN.	Minimum		
BLDG. BM.	Building Beam	MISC. MK.	Miscellaneous Mark		
BOT.	Bottom	1 117,	III		
BRG. BTWN.	Bearing	N. N.S.	North Naga Gida		
DIMN.	Between	N.S.	Near Side Not in Contract		
91 U	Centerline	NO.	Number		
CTOC	Camber Center to Center	NOM. NTS	Nominal Not to Scale		
CIP	Cast In Place	0.6	0.6.4.		
C.J. CLG.	Construction Joint or Control Joint Ceiling	0.C. 0.D.	On Center Outside Diameter		
CLR.	Clear	O.F.	Outside Face		
CMU CNTR.	Concrete Masonry Unit Center	O.H. OPNG.	Opposite Hand Opening		
COL.	Column	OPP.	Opposite		
CONC. CONN.	Concrete Connections	PAF	Powder Actuated Fastener		
CONST.	Construction	PC	Precast		
CONT. CJP	Continuous Complete Joint Penetration	PERM. PERP.	Permanent		
CSK.	Countersink	PL or PL	Perpendicular Plate		
DBA.	Defermed Ray Anches	PLF DI YIMD	Pounds per linear Foot		
DBA. DBL.	Deformed Bar Anchor Double	PLYWD PJP	Plywood Partial Joint Penetration		
DEG.	Degree	PREFAB.	Prefabricated		
DET. DF	Detail Doug Fir-Larch	PROJ. PSF	Project Pounds per Square Foot		
DIA.	Diameter	PSI	Pounds per Square Inch		
DIAG. DIAPH.	Diagonal Diaphragm	P.T. P/T	Post-Tensioning Pressure-Treated		
DIM.	Dimension				
DN. DO	Down Ditto	RAD. REF.	Radius Reference		
DWG.	Drawing	REINF.	Reinforce or Reinforcement		
(E)	Existing	REQD. REV.	Required Revise		
E.	East	R.O.	Rough Opening		
EA. E.F.	Each Each Face	S.	South		
EL.	Elevation	SCH. or SCHE			
ELEV. EMBED.	Elevator Embedment Length	SECT. SHT.	Section Sheet		
ENGR.	Engineer	SIM.	Similar		
E.W. EXP.	Each Way	SOG SPEC.	Slab On Grade		
EXT.	Expansion Exterior	50. 50.	Specification Square		
FDN.	Foundation	SQ. FT.	Square Feet		
FIN.	Foundation Finish	SQ. IN. STD.	Square Inch (inches) Standard		
FLR.	Floor	STIFF.	Stiffener		
FRP F.S.	Fiber Reinforced Polymer Far Side	STL. STR.	Steel Structural		
FT.	Foot or Feet	SUB.	Substitute		
FTG.	Footing	SYM.	Symmetrical		
GA.	Gauge	T/	Top of		
GALV. GL	Galvanized Glue Laminated	T\$B T\$ <i>G</i>	Top and Bottom Tongue \$ Groove		
GRD.	Grade	THRU	Through		
GMB	Gypsum Wall Board	TEMP. T.O.C.	Temporary Top of Concrete		
HF	Hem Fir	T.O.S.	Top of Steel		
HGR. HORIZ.	Hanger Horizontal	T.O.W. TRANS.	Top of Wall Transverse		
HSS	Hollow Structural Section	TS	Tube Steel		
HT.	Height	TYP.	Typical		
I.D.	Inside Diameter	UON or UNO	Unless Otherwise Noted		
I.F. IN.	Inside Face Inch	VERT.	Vertical		
INFO.	Information	VIF	Verify in Field		
INT.	Interior	М.	West		
JT.	Joint	W/or w/	With		
KSF	Kips per Square Foot	MD W.H.S.	Mood Welded Headed Stud		
KSI	Kips per Square Inch	W/O	Mithout		
	·	MP M.T.S.	Work Point Welded Threaded Stud		
		MMF	Welded Wire Fabric		
		X SECT.	Cross Section		
		X-STR	Extra Strong		



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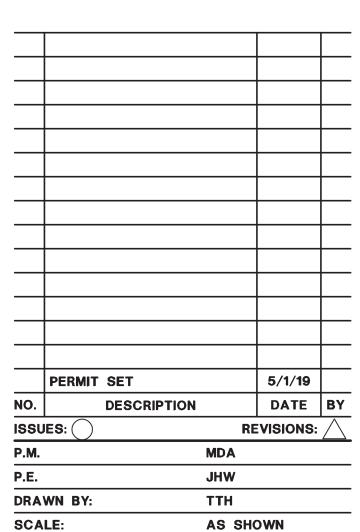


PROJECT:

LAI DECK ROOF ADDITION

7505 92ND AVE SE MERCER ISLAND WA 98040

APPROVAL:



GENERAL STRUCTURAL NOTES & ABBREVIATIONS

SHEET NO.

JOB NO.

SHEET TITLE:

31.1

TTH

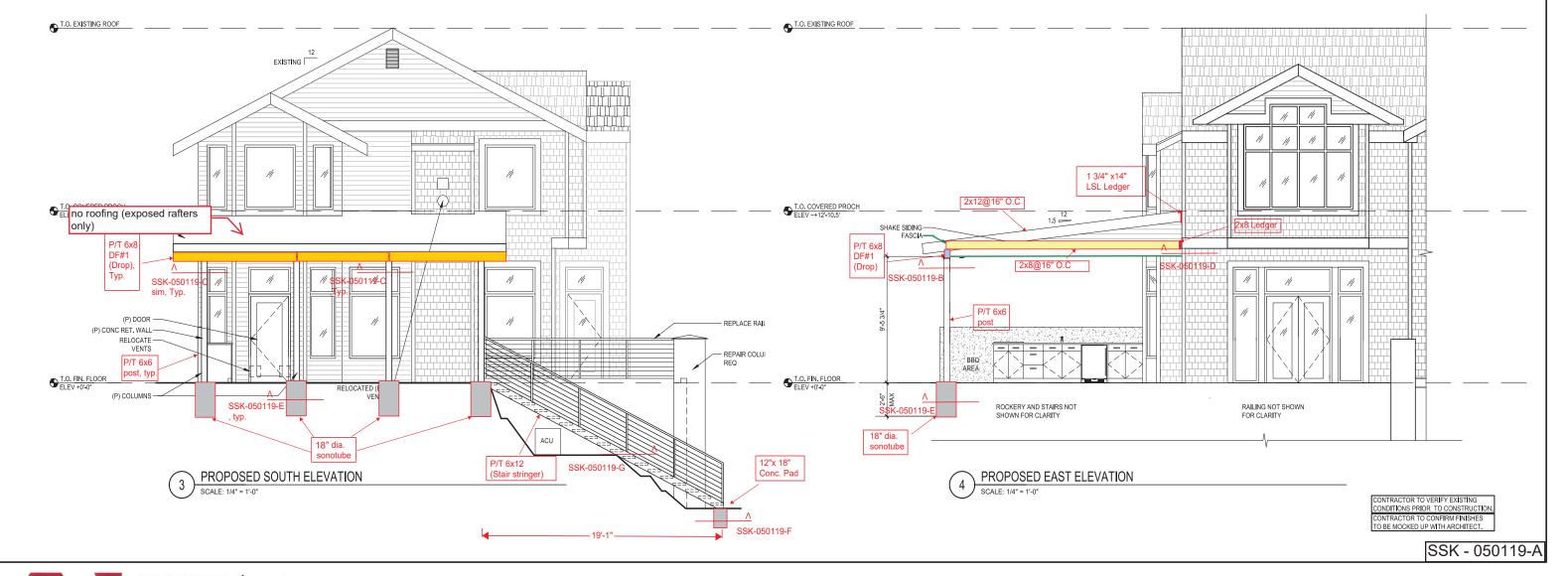
19175.01

FOUNDATION PLAN NOTES:

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND MANUFACTURER'S DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- 2. ALL EXISTING INFORMATION IS ASSUMED AND SHALL BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- 3. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE FOUNDATION PLAN BEFORE CONSTRUCTION TO VERIFY COMPLIANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE BEFORE REINFORCEMENT PLACEMENT TO VERIFY THE SOIL CONDITION.
- FOR STRUCTURAL GENERAL NOTES AND ABBREVIATIONS SEE SHEETS SI.O TO SI.I.
- FOR TYPICAL CONCRETE FOUNDATION DETAILS SEE SSK-042319-D

ROOF FRAMING NOTES:

- SEE SHEETS SI.O AND SI.I FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS.
- 2. TYPICAL ROOF JOIST SHALL BE 2x12 DF#2 @ 24" O.C., U.O.N. HANG JOISTS WITH LSSU FACE MOUNT HANGERS TYPICAL AT
- 3. NAIL ROOF SHEATHING TO FRAMING WITH 8d NAILS (0.131" $\!\phi \times 2.5\!$ " LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED).
- 4. PROVIDE SOLID BLOCKING BETWEEN EACH ROOF JOIST AT SUPPORTS. PROVIDE AN HGAIOKT CLIPAT EVERY MEMBER TO BEAM





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Lai Deck Roof Addition

project

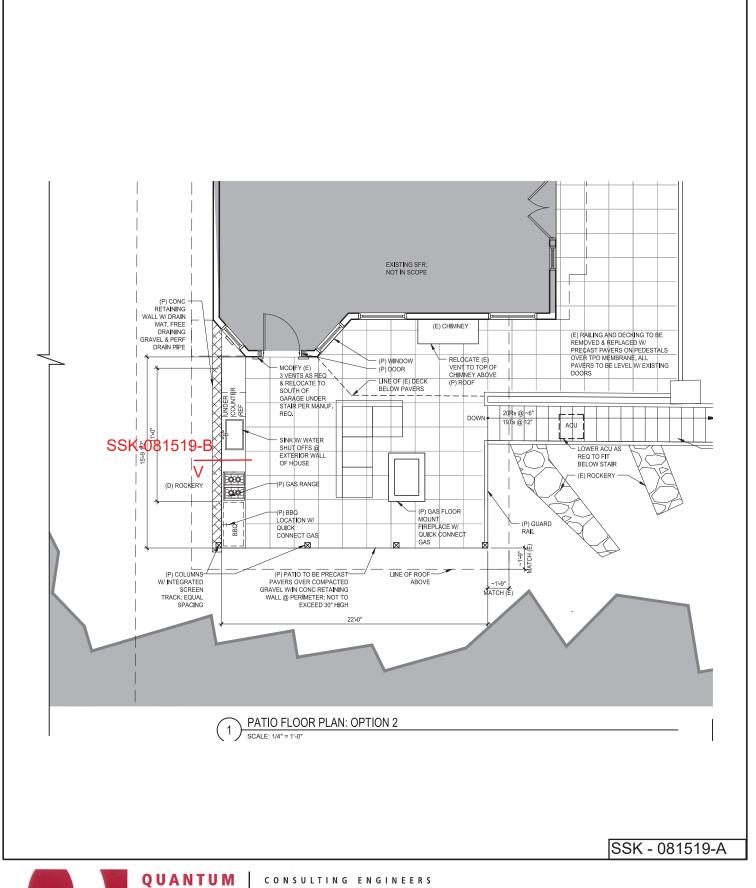
Josh Artisan + Architect

05/01/2019 19175.01

project no. MDA SSK - 050119-A

designer sheet

checked by





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client

Lai Deck Roof Addition project

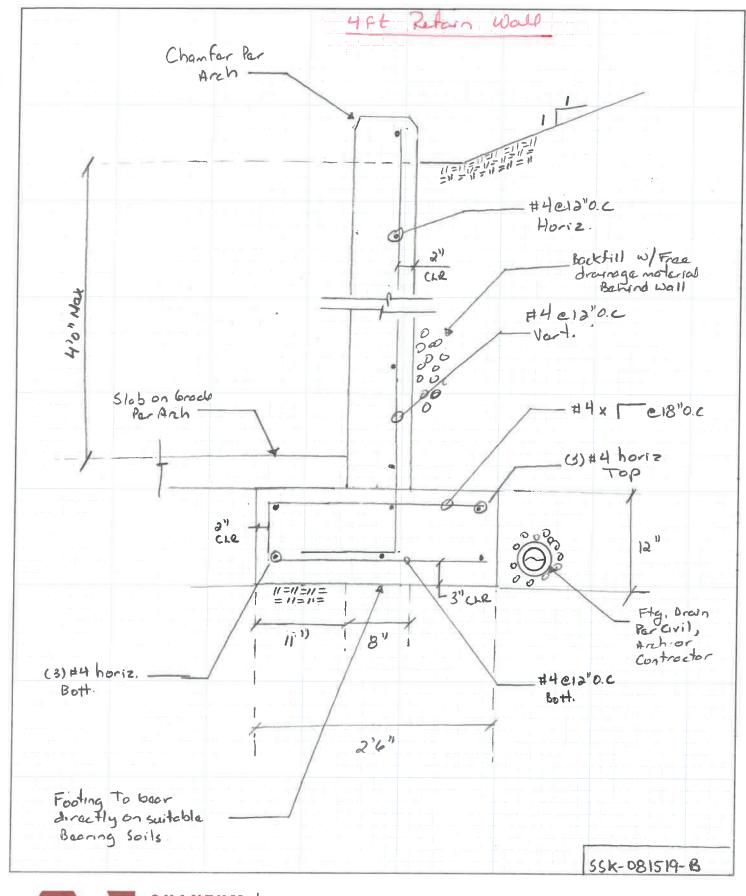
date

08/15/2019 19175.01 project no.

MDA designer SSK - 081519-A sheet

Josh Artisan + Architect

checked by





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Lai Deck Roof Addition	08/15/20	19 19175.01
project (Retain Wall)	date H OA	project no. 55k-08/5/9-B
Josh Architect.	designer	sheet
client	checked by	





STRUCTURAL CALCULATIONS

(Supplemental permit calcs)

LAI DECK ROOF ADDITION

7505 92nd Ave. SE Mercer Island, WA 98040

Quantum Job Number: 19175.01

Prepared for: JOSH ARTISAN + ARCHITECTURE

Prepared by:
QUANTUM CONSULTING ENGINEERS
1511 Third Avenue, Suite 323
Seattle, WA 98101
TEL 206.957.3900
FAX 206.957.3901





STRUCTURAL DESIGN CRITERIA

LAI DECK ROOF ADDITION 7505 92ND AVE SE, MERCER ISLAND, WA 98040.

QUANTUM JOB NUMBER: 19175.01

CODE CRITERIA: BUILDING CODE BUILDING DEPARTMENT WIND CRITERIA	RISK CATEGORY = II
MINIMUM FOOTING WIDTH FROST DEPTH	2,500 PSF CONTINUOUS: 18" MIN., ISOLATED: 24" MIN36" MIN. TION)45 PCF8H PSF300 PCF
MATERIALS CRITERIA: CONCRETE (28 DAY STRENGTH): FOUNDATION/S.O.G	F'C=2,500 PSI
REINFORCING STEEL: GRADE 40 (#4 BAR)	FY=40,000 PSI

Lai deck addition-Retain wall Title Job#: Dsgnr: MDA

Description.... 4 ft retain wall

Page: 1 Date: 15 AUG 2019

This Wall in File: m:\josh architect\lai deck addition\calculations\gravity design\4.5 ft retain wal

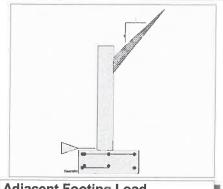
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Cantilevered Retaining Wall

Code: IBC 2015,ACI 318-14,ACI 530-13

Criteria		
Retained Height	=	4.00 ft
Wall height above soil	=	0.50 ft
Slope Behind Wall	=	1.00
Height of Soil over Toe	=	0.00 in
Water height over heel	=	0.0 ft

Soil Data		
Allow Soil Bearing Equivalent Fluid Pressure		2,500.0 psf
Active Heel Pressure	=	45.0 psf/ft
	=	
Passive Pressure	=	300.0 psf/ft
Soil Density, Heel	=	120.00 pcf
Soil Density, Toe	=	120.00 pcf
Footing Soil Friction	=	0.350
Soil height to ignore for passive pressure	=	0.00 in



Surcharge Loads		
Surcharge Over Heel	=	_
Used To Regist Sliding	ጲ	Ωv_{ℓ}

0.0 psf Used 10 Resist Sliding & Overturning Surcharge Over Toe 50.0 Used for Sliding & Overturning

Lateral	Load	Applied	to	Stem
Lateral Lo	ad			0.0 #/1

Lateral Load	=	0.0 #/ft
Height to Top	=	0.00 ft
Height to Bottom	=	0.00 ft
Load Type	=	Wind (W)
		(Service Level)

Wind on Exposed Stem = 0.0 psf (Service Level)

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs
Axial Live Load	=	0.0 lbs
Axial Load Eccentricity	=	0.0 in

Earth Pressure Seismic Load

Method: Uniform

Multiplier Used 8.000 (Multiplier used on soil density)

Uniform Seismic Force = 40.000

Design Summary

Lateral Sliding Force

Wall Stability	/ Ratios			
Overturning		=	2.07	OK
	Slob Pociete	All Clidio	201	

Total Bearing Loadresultant ecc.	=	2,285 lbs 3.55 in
Soil Pressure @ Toe Soil Pressure @ Heel	=	1,562 psf OK 265 psf OK
Allowable	=	2,500 psf
Soil Pressure Less	s I har	n Allowable
ACI Factored @ Toe	=	1,391 psf
ACI Factored @ Heel	=	236 psf
Footing Shear @ Toe	=	0.4 psi OK
Footing Shear @ Heel	=	14.2 psi OK
Allowable	=	75.0 psi
Sliding Calcs		

972.7 lbs

fc

Fy

Total Seismic Force 200.000

Stem Construction	11	Bottom	
Design Height About Et		Stem OK	
Design Height Above Ft		0.00	
Wall Material Above "Ht		001101010	
Design Method	=		
Thickness Rebar Size	=	0.00	
Rebar Spacing	=	# 4 12.00	
Rebar Spacing Rebar Placed at		6 in	
Design Data	=	0 111	
fb/FB + fa/Fa	=	0.310	
Total Force @ Section			
Service Level	lbs=		
Strength Level	lbs=	736.0	
MomentActual			
Service Level	ft-#=		
Strength Level	ft-#=	1,088.0	
MomentAllowable	=	3,505.6	
ShearActual			
Service Level	psi =		
Strength Level	psi =	10.2	
ShearAllowable	psi =	75.0	
Anet (Masonry)	in2 =		
Rebar Depth 'd'	in =	6.00	
Masonry Data			
fm	psi =		
Fs	psi =		
Solid Grouting	' =		
Modular Ratio 'n'	=		
· Wall Weight	psf=	100.0	
Short Term Factor	_ =		
Equiv. Solid Thick.	=		
Masonry Block Type	=	Medium Weigh	
Masonry Design Method	=	ASD	
Concrete Data			

2,500.0

40,000.0

psi = psi =

Vertical component of active lateral soil pressure IS considered in the calculation of soil bearing pressures.

Load Factors	
Building Code	IBC 2015,ACI
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.000
Seismic, E	1.000

Use menu item Settings > Printing & Title Block to set these five lines of information for your program.

Lai deck addition-Retain wall Title Job #: Dsgnr: MDA

Description.... 4 ft retain wall

Page: 2 Date: 15 AUG 2019

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Cantilevered Retaining Wall

Code: IBC 2015,ACI 318-14,ACI 530-13

Concrete Stem Rebar Area Details

Vertical Reinforcing **Bottom Stem**

As (based on applied moment): 0.0638 in 2/ft

0.0851 in2/ft (4/3) * As:

200bd/fy: 200(12)(6)/40000 0.36 in2/ft

0.0018bh: 0.0018(12)(8)

Required Area: Provided Area: Maximum Area:

0.1728 in2/ft ========= 0.1728 in2/ft

0.2 in2/ft 1.2192 in2/ft Horizontal Reinforcing

Min Stem T&S Reinf Area 0.864 in2

Min Stem T&S Reinf Area per ft of stem Height: 0.192 in2/ft

Horizontal Reinforcing Options:

One layer of: Two layers of: #4@ 12.50 in #4@ 25.00 in #5@ 38.75 in #5@ 19.38 in

#6@ 55.00 in

Footing Dimensions & Strengths

			-
Toe Width	=	0.75	ft
Heel Width	=	1.75	
Total Footing Width	=	2.50	
Footing Thickness	=	12.00	in
Key Width	=	0.00	in
Key Depth	=	0.00	in
Key Distance from Toe	=	0.00	ft
f'c = 2,500 psi	Fy =	40,000	psi
Footing Concrete Densit	y =	150.00	pcf
Min. As %	=	0.0018	
Cover @ Top 2.00	@ Bt	:m.= 3.0	00 ir
	Heel Width Total Footing Width Footing Thickness Key Width Key Depth Key Distance from Toe f'c = 2,500 psi Footing Concrete Densit Min. As %	Heel Width = Total Footing Width = Footing Thickness = Key Width = Key Depth	Heel Width Total Footing Width = 1.75 Total Footing Width = 2.50 Footing Thickness = 12.00 Key Width = 0.00 Key Depth = 0.00 Key Distance from Toe = 0.00 f'c = 2,500 psi Fy = 40,000 Footing Concrete Density = 150.00 Min. As % = 0.0018

Footing Design Results

#6@ 27.50 in

Other Acceptable Sizes & Spacings

Toe: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm Heel: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Key: No key defined

Min footing T&S reinf Area Min footing T&S reinf Area per foot

If one layer of horizontal bars:

in2 0.26 in2 /ft If two layers of horizontal bars:

0.65

#4@ 9.26 in #4@ 18.52 in #5@ 14.35 in #5@ 28.70 in #6@ 20.37 in #6@ 40.74 in

Summary of Overturning & Resisting Forces & Moments

~		OVERTURNING					R		
Item		Force lbs	Distance ft	Moment ft-#			Force lbs	Distance ft	Moment ft-#
Heel Active Pressure	=	832.7	2.03	1,688.4	Soil Over Heel	=	520.0	1.96	1,018.3
Surcharge over Heel	=				Sloped Soil Over Heel	=	70.4	2.14	150.6
Surcharge Over Toe	=				Surcharge Over Heel	=			
Adjacent Footing Load	=				Adjacent Footing Load	=			
Added Lateral Load	=				Axial Dead Load on Ste	em =			
Load @ Stem Above So	il =				* Axial Live Load on Ster	n =			
Seismic Earth Load = =	=	140.0	2.50	350.0	Soil Over Toe	=			
	=				Surcharge Over Toe	=	37.5	0.38	14.1
Total		972.7	O.T.M.	2,038.4	Stem Weight(s)	=	450.0	1.08	487.5
		912.1	O. I.W.	2,030.4	Earth @ Stem Transition				
:			=		Footing Weight	=	375.0	1.25	468.8
Resisting/Overturning	Rat	io	=	2.07	Key Weight	=			
Vertical Loads used for Soi		l Pressure :	= 2,284.	8 lbs	Vert. Component	=	831.9	2.50	2,079.7
					To	tal =	2.284.8	bs R.M.=	4.218.9

If seismic is included, the OTM and sliding ratios be 1.1 per section 1807.2.3 of IBC 2009 or IBC 201

Vertical component of active lateral soil pressure IS considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS considered in the calculation of Overturning Resistance.

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Use menu item Settings > Printing & Title Block to set these five lines of information for your program.

Lai deck addition-Retain wall Title Job#: Dsgnr: MDA

Description.... 4 ft retain wall

Page: 3 Date: 15 AUG 2019

This Wall in File: m:\josh architect\lai deck addition\calculations\gravity design\4.5 ft retain wal

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Code: IBC 2015,ACI 318-14,ACI 530-13

Tilt

Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus

250.0 pci

Horizontal Defl @ Top of Wall (approximate only)

0.078 in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe,

because the wall would then tend to rotate into the retained soil.

