### STANDARDS:

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM WITH: 2015 Washington State Energy Code Washington Cities Electrical Code

LATEST ADOPTED EDITIONS AS AMENDED AND ADOPTED BY THE APPLICABLE

### TYPE OF CONSTRUCTION

TYPE V-N SPRINKLERED NFPA 13D

### PREMISES IDENTIFICATION:

PROVIDE ADDRESS OR HOUSE NUMBER PER R319,1 IRC. APPROVED NUMBERS OR ADDRESSES SHALL BE PROVIDED FOR ALL NEW BUILDINGS IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE

### MORTAR AND GROUT:

TYPE "S" MORTAR FOR INTERIOR AND EXTERIOR WORK, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 1800 PSI, GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2000 PSI.

### MASONRY VENEER:

MASONRY VENEER TO BE ANCHORED TO WOOD FRAMING WITH 22GA,  $\times$  1" GALY, ANCHORS SPACED 2' MIN, O.C., IN SEISMIC ZONES 3\$4, ANCHORS SHALL HAVE LIP OR HOOK ON THE EXTENDED LEG THAT WILL ENGAGE OR ENCLOSE A 9 GA HORIZONTAL JOINT REINFORCEMENT WIRE. THE JOINT REINF, SHALL BE CONTINUOUS W/ BUTT SPLICES BETWEEN TIES PERMITTED.

### FORMALDEHYDE REDUCTION MEASURES:

ALL STRUCTURAL PANEL COMPONENTS OF THE HOUSE SUCH AS SOFTWOOD PLYWOOD. PARTICLE BOARD, WAFER BOARD, AND ORIENTED STRAND BOARD SHALL BE IDENTIFIED AS "EXPOSURE I", "EXTERIOR" OR "HUD APPROVED".

### EXTERIOR WALL FLASHING:

APPROVED CORROSION-RESISTIVE FLASHING SHALL BE APPLIED SHINGLE FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER INTO THE BUILDING STRUCTURAL FRAMING COMPONENTS, SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TII, THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH, APPROVED CORROSION-RESISTANT FLASHING SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS:

I, EXTERIOR WINDOW AND DOOR OPENINGS, FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. 2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR

STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS. 3. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS. 4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.

5. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.

6. AT WALLS AND ROOF INTERSECTIONS

### FIREBLOCKING:

FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE, FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS: I, IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:

I.I YERTICALLY AT THE CEILING AND FLOOR LEVELS.

1,2 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET. 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS. 3, IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7. 4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION, THE MATERIAL FILLING THIS ANNUAL SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.

5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION RIOO3.19.

### RATPROOFING:

STRAINER PLATES ON DRAIN INLETS SHALL BE DESIGNED AND INSTALLED SO THAT NO OPENING IS GRATER THAN 1/2-INCH IN THE LEAST DIMENSION. METER BOXES SHALL BE CONSTRUCTED IN SUCH A MANNER THAT RATS CANNOT ENTER A BUILDING BY FOLLOWING THE SERVICE PIPES FROM THE BOX INTO THE BUILDING. IN OR ON BUILDINGS WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROYED METAL COLLARS SECURELY FASTENED TO THE ADJOINING STRUCTURE. TUB WASTE OPENINGS IN FRAMED CONSTRUCTION TO CRAWL SPACES AT OR BELOW THE FIRST FLOOR SHALL BE PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS OR METAL SCREEN SECURELY FASTENED TO THE ADJOINING STRUCTURE WITH NO OPENING GREATER THAN 12-INCH IN THE LEAST DIMENSION.

### GARAGE SEPARATION:

GARAGES, SHOPS, AND SIMILAR AREAS SHALL BE SEPARATED FROM THE DWELLING BY (1/2" GWB) ON THE GARAGE SIDE WALLS AND SUPPORTING POSTS AND BEAMS. THE MATERIALS SHALL EXTEND FROM THE FOUNDATION TO THE ROOF SHEATHING, WHERE A LIVING AREA IS ABOVE THE GARAGE, THE CEILING SHALL BE PROTECTED WITH ONE LAYER OF 5/8" TYPE "X" GYPSUM WALLBOARD, PER SECTION R302.6.

### TUBS AND SHOWERS:

TUB AND SHOWER WALLS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE TO A HEIGHT OF NOT LESS THAN 6' ABOYE THE FLOOR, MATERIAL OTHER THAN STRUCTURAL ELEMENTS USED IN SUCH WALLS SHALL BE OF A TYPE NOT ADVERSELY AFFECTED BY MOISTURE. ALL GLAZING INCLUDING WINDOWS WITHIN 60 INCHES OF THE DRAIN INLET SHALL BE SAFETY GLASS. DOORS SHALL SWING OUT. FIREBLOCK BETWEEN STUDS.

GAS ZERO-CLEARANCE FIREPLACES SHALL BE UL APPROVED. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE IBC AND THE MANUFACTURER'S SPECIFICATIONS. THEY SHALL BE FITTED WITH A TIGHT FITTING FLUE DAMPER, & OPERATED WITH A READILY ACCESSIBLE MANUAL OR APPROVED AUTOMATIC CONTROL. ALL FIREPLACES SHALL BE PROVIDED WITH FRESH AIR FROM THE OUTSIDE TO THE FIRE BOX. FRESH AIR INTAKES SHALL BE A MINIMUM OF 6 SQUARE INCHES AND SHALL BE FITTED WITH A READILY OPERABLE DAMPER. THEY SHALL HAVE TIGHT FITTING GLASS OR METAL DOORS, OR FLUE DRAFT

CRAWL ACCESS SHALL BE A MINIMUM OF 18"x24". IT SHALL BE UNOBSTRUCTED. IT SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES.

### HOT WATER TANK:

HOT WATER TANK SHALL BE LABELED COMPLY WITH THE LATEST NAECA STANDARDS. THEY SHALL HAVE A TEMPERATURE / PRESSURE RELIEF YALVE WHICH SHALL VENT TO THE EXTERIOR OF THE BUILDING AND AN EXPANSION TANK, IN UNHEATED SPACES, ELECTRIC WATER HEATERS SHALL BE PLACED ON AN INCOMPRESSIBLE INSULATED SURFACE OF R-10 MINIMUM. THE WATER HEATER SHALL BE STRAPPED WITH TWO 22 GAUGE imes 3/4" METAL STRAPS AT UPPER AND LOWER 1/3rd OF TANK, STRAPS SHALL BE ATTACHED DIRECTLY TO THE STUDS OR A 2X4 CROSS BRACE W/ 1/4"X4" LAGS, INSTALL GAS IN GARAGES ON AN 18" HIGH STAND.

### HOT WATER TEMPERATURE MAXIMUM:

MAXIMUM HOT WATER TEMPERATURE AT BATH TUBS AND WHIRLPOOLS SHALL BE LIMITED TO 120 DEGREES FAHRENHEIT. THE WATER HEATER SHALL NET BE CONSIDERED A CONTROL TO MEET THIS REQUIREMENT.

### STAIR NOTES:

MINIMUM STAIR WIDTH 36" CLEAR MINIMUM HEADROOM 6'-8" CLEAR. STAIR RISE AND RUN PER THE PLANS (7-3/4" MAX RISE/IO" MIN RUN). THE MAX RISE SHALL NOT EXCEED THE MIN RISE BY MORE THAN 3/8". INSTALL FIRESTOPS IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN THE STUDS ALONG AND IN LINE WITH THE RUN OF THE STAIRS IF THE WALLS UNDER THE STAIRS ARE UNFINISHED. COVER ANY USABLE SPACE UNDER THE STAIRS WITH GYP, BOARD, THE HANDRAILS SHALL BE BETWEEN 1-1/2" AND 2" IN CROSS SECTION. IT SHALL BE MOUNTED BETWEEN 34" AND 38" ABOVE THE STAIR NOSING, AND BETWEEN 1-1/2" AND 3-1/2" FROM THE WALL, THE ENDS OF THE HANDRAIL SHALL RETURN

### SMOKE ALARMS:

SMOKE ALARMS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH SECTION R313. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING AND SHALL HAVE A BATTERY BACKUP, SMOKE DETECTORS SHALL BE INTERCONNECTED TO PROVIDE AN ALARM IN ALL SLEEPING ROOMS, OUTSIDE THE BEDROOM AREA IN THE IMMEDIATE VICINITY & ON EACH ADDITIONAL STORY.

ABOVE THE FLOOR.

EVERY SLEEPING ROOM SHALL BE PROVIDED WITH AT LEAST ONE OPERABLE DOOR OR WINDOW WITH A NET CLEAR OPENING OF 5.7 SQUARE FEET. THE OPENING HEIGHT SHALL BE AT LEAST 24" AND THE WIDTH AT LEAST 20" WITH A FINISHED SILL HEIGHT NOT MORE THAN 42"

### RECESSED LIGHTING FIXTURES:

WHEN INSTALLED, RECESSED LIGHTING FIXTURES SHALL MEET ONE OF THE FOLLOWING

TYPE IC RATED, MANUFACTURED WITH NO PENETRATIONS BETWEEN THE INSIDE OF THE RECESSED FIXTURE AND CEILING CAVITY AND SEALED OR GASKETED TO PREVENT AIR LEAKAGE INTO THE UNCONDITIONED SPACE. 2. TYPE IC OR NON-IC RATED. INSTALLED INSIDE A SEALED BOX CONSTRUCTED FROM

A MINIMUM ONE HALF INCH GYPSUM WALL BOARD OR CONSTRUCTED FROM A PREFORMED POLYMERIC VAPOR BARRIER, OR OTHER AIR TIGHT A66EMBLY MANUFACTURED FOR THIS PURPOSE, WHILE MAINTAINING REQUIRED CLEARANCES OF NOT LESS THAN ONE HALF INCH FROM COMBUSTIBLE MATERIAL AND NOT LESS THAN THREE INCHES FROM INSULATION MATERIAL. 3. TYPE IC RATED, CERTIFIED UNDER ASTM E283 TO HAVE NO MORE THAN 2.0 CFM AIR MOVEMENT FROM THE CONDITIONED SPACE TO THE CEILING CAVITY. THE LIGHTING FIXTURE SHALL BE TESTED AT SEVENTYFIVE PASCALS OR 1.51 LBS/SF PRESSURE DIFFERENCE AND HAVE A LABEL ATTACHED, SHOWING COMPLIANCE.

### WATER EFFICIENCY STANDARDS:

MAXIMUM WATER USE ALLOWED MEASURED IN GALLONS PER MINUTE (GPM): TOILETS 1.75 GPM 1.75 GPM SHOWERHEADS LAVATORY FAUCETS 1.0 GPM KITCHEN FAUCETS 1.75 GPM

BATH, POWDER ROOM AND LAUNDRY ROOM FANS SHALL HAVE A MINIMUM CAPACITY OF 50 CFM. THE FANS SHALL BE VENTED TO THE EXTERIOR AND SHALL HAVE A BACK FLOW PREVENTER, EXHAUST DUCTS IN UNCONDITIONED SPACE SHALL BE INSULATED TO A MINIMUM OF R-4, EXHAUST DUCTS SHALL BE SIZED IN ACCORDANCE WITH THESE GENERAL NOTES, SEE "PRESCRIPTIVE DUCT SIZING". FANS SHALL BE FLOW RATED AT 0.25 W.G. STATIC PRESSURE, MINIMUM EFFICACY 1.4 CFM/WATT

### RANGE HOODS:

RANGE HOODS SHALL HAVE A MINIMUM CAPACITY OF 100 CFM AND SHALL VENT TO THE OUTSIDE AND SHALL HAVE A BACK FLOW PREVENTER. EXHAUST DUCTS IN UNCONDITIONED SPACE SHALL BE INSULATED TO A MINIMUM OF R-4. EXHAUST DUCTS SHALL BE SIZED IN ACCORDANCE WITH THESE GENERAL NOTES, SEE "PRESCRIPTIVE DUCT SIZING, FANS SHALL BE FLOW RATED AT 0.25 W.G. STATIC PRESSURE, MINIMUM EFFICACY 2.8CFM/WATT

### PRESCRIPTIVE DUCT SIZING:

THIS SECTION	N SHALL BE U	SED FOR SIZING EXH	HAUST AND SUPT	PLY DUCTS,	
FAN CFM	FLEX DIA.	MAX LENGTH	SMOOTH DIA.	MAX LENGTH	
50	4 INCH	25'	4 INCH	70'	
50	5 INCH	90'	5 INCH	100'	
50	6 INCH	NO LIMIT	6 INCH	NO LIMIT	
80	4 INCH	NOT ALLOWED	4 INCH	20'	
80	5 INCH	15'	5 INCH	100'	
80	6 INCH	<i>90'</i>	6 INCH	NO LIMIT	
100	5 INCH	NOT ALLOWED	5 INCH	50'	
100	6 INCH	45'	6 INCH	NO LIMIT	
125	6 INCH	15'	6 INCH	NO LIMIT	
125	7 INCH	70'	T INCH	NO LIMIT	

THERE SHALL BE A MAXIMUM OF THREE ELBOWS. FOR EACH ELBOW OVER THREE SUBTRACT

### 2015 TABLE R406.2 CREDITS:

OPTION ID EFFICIENT BUILDING ENVELOPE ID 0.5 CREDITS OPTION 36 HIGH EFFICIENCY HYHA EQUIPMENT 36 1.0 CREDITS OPTION 5a EFFICIENT WATER STANDARDS 5c 0.5 CREDITS OPTION 5C EFFICIENT WATER HEATING 5c

### WHOLE HOUSE VENTILATION (INTEGRATED):

THE INTEGRATED WHOLE HOUSE VENTILATION SYSTEMS SHALL PROVIDE OUTDOOR AIR AT THE RATE CALCULATED USING SECTION MI508.3. INTEGRATED FORCED-AIR VENTILATION SYSTEMS SHALL DISTRIBUTE OUTDOOR AIR TO EACH HABITABLE ROOM THROUGH THE FORCED-AIR SYSTEM DUCTS. INTEGRATED FORCED-AIR VENTILATION SYSTEMS SHALL HAVE AN OUTDOOR AIR INLET DUCT CONNECTING A TERMINAL ELEMENT ON THE OUTSIDE OF THE BUILDING TO THE RETURN AIR PLENUM OF THE FORCED AIR SYSTEM, AT A POINT WITHIN 4 FEET UPSTREAM OF THE AIR HANDLER. THE OUTDOOR AIR INLET DUCT CONNECTION TO THE RETURN AIR STREAM SHALL BE LOCATED UPSTREAM OF THE FORCED-AIR SYSTEM BLOWER AND SHALL NOT BE CONNECTED DIRECTLY INTO A FURNACE CABINET TO PREVENT THERMAL SHOCK TO THE HEAT EXCHANGER, THE SYSTEM WILL BE EQUIPPED WITH A MOTORIZED DAMPER CONNECTED TO THE AUTOMATIC VENTILATION CONTROL AS SPECIFIED IN SECTION MI508.5.2. THE REQUIRED FLOW RATE SHALL BE YERIFIED BY FIELD TESTING WITH A FLOW HOOD OR A FLOW MEASURING STATION.

THE WHOLE HOUSE VENTILATION SYSTEM SHALL BE CONTROLLED BY A 24-HOUR CLOCK TIMER WITH THE CAPABILITY OF CONTINUOUS OPERATION, MANUAL AND AUTOMATIC CONTROL, THE CONTROL WILL CONTROL THE FORCED AIR SYSTEM BLOWER AND THE AUTOMATIC DAMPER. THE 24-HOUR TIMER SHALL BE READILY ACCESSIBLE, THE 24-HOUR TIMER SHALL BE CAPABLE OF OPERATING THE WHOLE HOUSE VENTILATION SYSTEM WITHOUT ENERGIZING OTHER ENERGY-CONSUMING APPLIANCES. AT THE TIME OF FINAL INSPECTION, THE AUTOMATIC CONTROL TIMER SHALL BE SET TO OPERATE THE WHOLE HOUSE SYSTEM FOR A LEAST 8 HOURS A DAY, A LABEL SHALL BE AFFIXED TO THE CONTROL THAT READS "WHOLE HOUSE VENTILATION (SEE OPERATING INSTRUCTIONS)".

WHOLE HOUSE EXHAUST FANS SHALL BE RATED AT 0.25 W.G. AND MAX. 1.0 SONE RATING THE OUTDOOR AIR CONNECTION TO THE RETURN AIR STREAM SHALL BE LOCATED TO PREVENT THERMAL SHOCK TO THE HEAT EXCHANGER

THE OUTDOOR AIR INLET SHALL BE SCREENED OR OTHERWISE PROTECTED FROM ENTRY

BY INSECTS, LEAVES, OR OTHER MATERIAL. THE INLETS SHALL BE LOCATED SO AS NOT TO TAKE AIR FROM THE FOLLOWING AREAS: A) CLOSER THAN 10 FEET FROM AN APPLIANCE VENT OUTLET, UNLESS SUCH VENT OUTLET IS 3 FEET ABOVE THE OUTDOOR AIR INLET. B) WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMMABLE

C) A HAZARDOUS OR UNSANITARY LOCATION. D) A ROOM OR SPACE HAVING ANY FUEL-BURNING APPLIANCE THEREIN. E) CLOSER THAN 10 FEET FROM A VENT OPENING OF A PLUMBING DRAINAGE SYSTEM UNLESS SUCH YENT OPENING IS AT LEAST 3 FEET ABOVE THE AIR INLET. F) ATTIC, CRAWL SPACES OR GARAGES, THE DUCT SHALL BE INSULATED TO R-4 WHERE PASSING THROUGH UNCONDITIONED SPACE.

A WHOLE HOUSE EXHAUST FAN SHALL BE LOCATED IN THE CEILING, AND SIZED AS PER

TABLE MI508.2 OF THE IRC.

THE HVAC SHALL BE CAPABLE OF MAINTAINING 68 DEGREES FAHRENHEIT AT A POINT THREE FEET OFF THE FLOOR AND 2' FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS WHEN THE OUTSIDE TEMPERATURE IS AS SET FORTH IN THE WASHINGTON STATE ENERGY CODE. THE HYAC SYSTEM SHALL BE A GEOTHERMAL HEAT PUMP, WATER FURNACE 5 SERIES NDV 060, GLHP 30 EER, 5 COP, THE INSTALLED HYAC SIZE SHALL BE BASED ON THE CALCULATED HEAT LOSS AND SHALL NOT EXCEED 150% OF THE CALCULATED HEAT LOSS, A NIGHT SETBACK THERMOSTAT IS REQUIRED.

### ENERGY CODE DATA:

THIS BUILDING IS DESIGNED IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE INSULATION VALUES:

(ALL YALUES AS LISTED BELOW UNLESS NOTED OTHERWISE)

INSULATE BEHIND TUB/SHOWER, PARTITIONS, AND CORNERS. FACE STAPLE FACED

INSULATION, FRICTION FIT UNFACED BATTS AND INSTALL A 4-MIL POLY VAPOR BARRIER.

INSTALL INSULATION BAFFLES AT EAVES, BAFFLES TO MAINTAIN I" CLEAR ABOVE INSULATION, EXTEND BAFFLES 6" ABOYE BATT INSULATION AND 12" ABOYE LOOSE FILL

### FLOORS: R-30

SLAB EDGE: R-10, RIGID

DUCT INSULATION: R-8

HOT AND COLD WATER PIPES OUTSIDE OF THE CONDITIONED SPACE SHALL BE INSULATED.

ALL EXTERIOR WINDOWS SHALL BE DESIGNED TO OMIT INFILTRATION INTO OR FROM THE BUILDING ENVELOPE AND SHALL BE SUBSTANTIATED BY TESTING TO STANDARD ASTM

### EXTERIOR DOORS: Uo=0.20

ONE SIDE-HINGED OPAQUE DOOR ASSEMBLY UP TO 24 SQUARE FEET IN AREA IS EXEMPT FROM THE U-FACTOR REQUIREMENTS, ALL EXTERIOR DOORS OR DOORS SERVING AS ACCESS TO AN ENCLOSED UNHEATED AREA, OTHER THAN FIRE-RATED DOORS, SHALL BE DESIGNED TO LIMIT AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION, DOORS BETWEEN RESIDENCE AND GARAGE ARE NOT CONSIDERED FIRE-RATED.

### OUTDOOR LIGHTING:

OUTDOOR LIGHTING FIXTURES THAT ARE PERMANENTLY MOUNTED TO THE STRUCTURE OR OTHER STRUCTURES UPON THE SAME LOT SHALL BE HIGH EFFICIENCY LUMINARIES UNLESS CONTROLLED BY A MOTION SENSOR WITH AN INTEGRAL PHOTO SENSOR.

# INFILTRATION CONTROL:

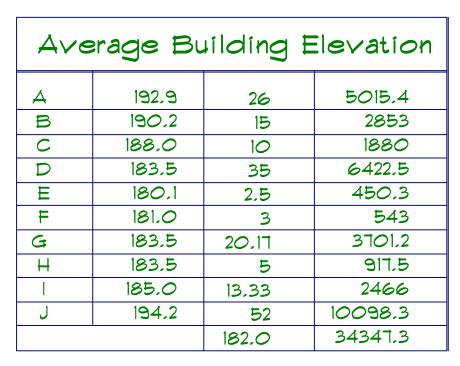
EXTERIOR JOINTS AROUND SOLE PLATES, WIRING, PLUMBING, DUCTS, RIM JOISTS, MUDSILLS, FLUES, LIGHT FIXTURES, AND PARTITION STUD PENETRATIONS, THROUGH WALLS, FLOORS, AND ROOFS: AND ALL OTHER SUCH OPENINGS INTO THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.

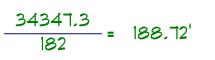
# YAPOR BARRIERS:

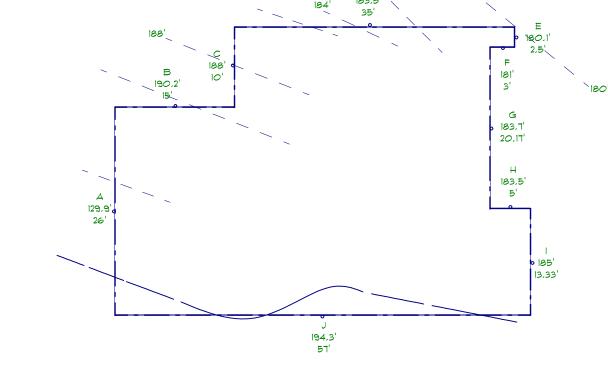
AN APPROVED VAPOR BARRIER SHALL BE PROPERLY INSTALLED IN ROOF DECKS, IN ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF RAFTERS, AND AT EXTERIOR WALLS.

# GROUND COVERS:

A GROUND COVER OF 6 MIL. BLACK POLYETHYLENE OR EQUIVALENT SHALL BE LAID OVER THE GROUND IN ALL CRAWL SPACES AND UNDER ALL FLOOR SLABS EXCEPT GARAGE FLOOR SLABS. THE GROUND FLOOR COVER SHALL BE OVERLAPPED ONE FOOT AT EACH JOINT AND SHALL EXTEND TO THE FOUNDATION WALL.







# ARCHITECTURAL PLANS

A 1.0 A 1.1	
	FOUNDATION GARAGE PLAN MAIN FLOOR PLAN UPPER FLOOR PLAN ROOF PLAN
Д 3.1 Д 3.2 Д 3.3 Д 3.4	EAST ELEVATION WEST ELEVATION SOUTH ELEVATION NORTH ELEVATION
Д 4.1 Д 4.2 Д 4.3	SECTION "A-A" SECTION "B-B" SECTION "C-C"

A4.4SECTION "D-D' DETAILS A 5.2 DETAILS DETAILS SDETAILS A 5.4

A 5.5 STAIRS WINDOWS

A 6.1 CABINETS GARAGE FLOOR ELECTRICAL A 6.2 A 6.3 MAIN FLOOR ELECTRICAL A 6.4 UPPER FLOOR ELECTRICAL

### STRUCTURAL PLANS

P 1.0	SHORING PIN PILE DETAILS
P 1.1	SHORING PIN PILE PLAN
\$ 1.0 \$ 2.0 \$ 2.1 \$ 2.2 \$ 2.3	STRUCTURAL NOTES FOUNDATION PLAN MAIN FLOOR FRAMING PLAN UPPER FLOOR FRAMING PLAN ROOF FRAMING PLAN
\$ 3.0	FOUNDATION DETAILS
\$ 3.1	FOUNDATION DETAILS
\$ 3.2	FOUNDATION DETAILS
\$ 4.0 \$ 4.1 \$ 4.2 \$ 4.3	FRAMING DETAILS FRAMING DETAILS FRAMING DETAILS FRAMING DETAILS

### CIVIL ENGINEERING PLANS

C1.01	SITE PLAN		
C1.02	TOPOGRAPHIC PLAN		
C2.01	EROSION CONTROL PLAN		
C4.01	STORM, UTILITIES & GRADING		
C4.31	STORM DRAINAGE DETAILS		

# WETLAND PLANS

CRITICAL ENHANCEMENT PLAN 2 OF 2 CRITICAL ENHANCEMENT PLAN

S

4-27-2021

PROJECT NO.

SHEET NO.





# **INSPECTION REQUESTS:**

online	:
_	MyBuildingPermit.com

PHONE: 206.275.7605   www.mercergov.org	TASI			voicemail:
MIEPlan	HI	NC		(206) 275-7730
WASHING OF				
NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT	T TO PUB	BLIC	DISCLOSURE AS REQUIRE	D BY RCW 42.56
CONTACT INFORMATION: Applicant is to complete the following information.				
Applicant Contact information <i>prior</i> to permit issuance:		Α	pplicant Contact information p	ost permit issuance:
Name:		N	ame:	
Address:	_	Δι		
Phone:		Pi	hone:	
Email:		Er	mail:	
REQUIRED SPECIAL INSPECTIONS / STR	RUCTUI	RA	L OBSERVATIONS:	
It is the Engineer of Record's responsibility to specify all records	•		•	·
The owner is responsible for hiring an approved private Sp Inspectors (except Geotechnical) must be WABO certified.	ecial Inspe	ecto	r for the checked inspections no	oted below. All Special
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			to the Special Inspection or Stru	ictural Observation indicated
STRUCTURAL OBSERVATION BY ENGINEER OF RECORD Engineer of Record:	_ Compar	ny:_		Phone:
☐ General Conformance to Construction Documents			Other:	
SOILS / GEOTECHNICAL:				
Special Inspector:				
<ul><li>Erosion control measures</li><li>Shoring installation and monitoring</li></ul>			Subsurface drainage placement Verify fill material and compact	etion
Observe and monitor excavation			Rockery installation	
<ul><li>Verification of soil bearing</li><li>Other:</li></ul>			Pile placement (auger cast/driv Other:	ven pile)
REINFORCED CONCRETE:				
Special Inspector:	Compar	ny:_		Phone:
<ul><li>Reinforcing steel and concrete placement</li><li>Shotcrete placement</li></ul>			Prestressed / Precast construc Other:	tion
Other:			0.1	
STRUCTURAL STEEL: (AISC 360, Chapter N)				
Special Inspector:				
<ul><li>Fabrication and shop welds</li><li>Structural steel erection, field welds and bolting</li></ul>			Moment Frame construction Other:	
Other:			Otherm	
STRUCTURAL MASONRY:				
Special Inspector:				
<ul><li>Mortar strength</li><li>Masonry unit strength</li></ul>			Glass unit masonry installation Wall panel and veneer installation	-
Other:			Other:	
Other:		Ш	Other:	
WOOD: Special Inspector /				
Engineer of Record:	Compar	າy:_		Phone:
<ul><li>Lateral resisting system construction</li><li>Other:</li></ul>			High strength diaphragm const	truction
			Other.	
OTHER SPECIAL INSPECTIONS: Special Inspector:	Compar	າy:		Phone:
Epoxy grout installations			Stucco installation	
<ul><li>Expansion anchor installations</li><li>Other post installed anchors</li></ul>			Infiltration System Exterior Insulation Finish Syste	m (FIES) installation
Alternative construction methods:			Other:	in (Lii 3) installation
Alternative construction materials:			Other:	
DEFERRED SUBMITTALS:	/ ala a a alua.	:	an fau ambunittal to the City fau u	
The Applicant is required to select all deferred submittals / fabrication / construction.	snop drav	wing	55 TOT SUDMITTED TO THE CITY FOR P	eview and approval prior to item
Connector plate wood trusses			Post tension layout	
<ul><li>Metal joist / metal trusses</li><li>Premanufactured structures (stairs, etc.)</li></ul>			Exterior cladding Window wall / curtain wall cor	nstruction
Precast concrete elements			Other:	ISCI MOCIOTI
Other:			Other:	
ENERGY CODE COMPLIANCE INFORMA  Indicate where the following information is located in the		s+ ^	Iternatively incorporate or incl	ude the Residential Energy Code
Indicate where the following information is located in the operation of the drawing series of the compliance (RECPC) form into the drawing series of the compliance (RECPC) form into the drawing series of the compliance (RECPC).	_	.ι. Α	incorporate or incl	due the residential Ellergy Code
Sheet				
Building envelope: wsec Table 402.1.1			Air Leakage Testing. IRC Section R402.4	4.1.2 WA Amendments
(include U-factors, insulation and moisture control)		L <b>V</b>	Provide air leakage test re	
Whole house ventilation: IRC Section M1507 WA Amended		/	does not to exceed 5 air cl	nanges per hour.
(include ventilation option and duct sizing if applicable)  Energy Credit Information: wsec τable 406.2			Duct Leakage Testing. WSEC R403.2 Postconstruction Test. WSEC R403.2.	
(include specific, written requirements)		$\overline{\mathbf{A}}$	Rough-in Test. WSEC R403.2.2.3	
RECPC Form Information: (if incorporated within drawing set)				
http://www.mercergov.org/files/2012ResidentialEnergyCalcForm.pdf				

Suppress from the city of fectors inland. Approved plants must be septical and an entrance a good and and an office of the company of the city of th	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
Separate Permit are required for ALL five protection systems: for more information, see Hats //www.merceapo.org/Pare.ass/NevD-3666	TO BE COMPLETED BY	Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including:  Site Considerations ROW restrictions Planning Requirements Planning Requirements Planning Requirements 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. Frosion control measures must be as shown on approved project drawings. All erosion control is to be in place and inspected prior to the start of any site work.  A City of Mercer Island Business License is required for all subcontractors. Call (206) 275-7783 for more information.  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, trees are authorized to be removed and replaced with trees. This project appears to be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their	TO BE COMPLETED BY
Monitored Household	ł	FIRE PROTECTION REQUIREMENTS:	i
WATER SUPPLY REQUIREMENTS:    Tire sprinkler design calculations must be provided prior to determining water supply system requirements.   Water Supply system upgrade required   City Institute   City Institute		□ Fire Sprinkler □ Monitored Household   □ NFPA 13D Fire Alarm per NFPA 72   □ Plus □ Monitored Sprinkler   □ NFPA 13R Water Flow Alarm   □ NFPA 13 □ Other:   □ Approved Fire Code Alternatives:	
Fire sprinks design calculations must be provided prior to determining water supply system requirements.			
APPROVED CODE ALTERNATIVES:	ED BY DSG	<ul> <li>☐ City Installation.</li> <li>☐ Applicant Installation.</li> <li>Required Service Line Size:</li> <li>☐ (water main to meter)</li> <li>☐ Abandonment of existing service and meter required at main.</li> <li>☐ Pressure reducing valve required if pressure exceeds 80 psi.</li> <li>☐ Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells or lake irrigation).</li> <li>☐ Additional water supply requirements:</li> </ul>	BY DSG
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.    Side sewer requires of sexisting sewer required (see standard details)   New connection.   Connect to existing.   Disconnect permit required.   Reconnect permit required.   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:	ᆰ		
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.   Connect to existing.   Disconnect permit required.   Reconnect permit required.   Other: 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   CA2:   CA2:   CA3:   CA4:   CA5:   CA5:	_	<ul> <li>☐ On site infiltration system required.</li> <li>☐ As-built Utility drawings required.</li> <li>☐ Connection to public storm drainage conveyance system req'd.</li> </ul>	COMPLE
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:	2	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.  Connect to existing.  Disconnect permit required.  Reconnect permit required.  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	TO BE
Building setback survey   Impervious surface survey   Other:   Other:   MAXIMUM 40 PERCENT ALTERATION INSPECTION: MICC PROJ. MARCH 2015   MAXIMUM 40 PERCENT ALTERATION INSPECTION: MICC PROJ. MAXIMUM 40 PERCENT ALTERATION INSPECTION: MICC PROJ. MAXIMUM 40 PERCENT ALTERATION INSPECTION: MICC PROJ. MAXIMUM 40 PERCENT ALTERATION INSPECTION:   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.   LUP / Setback requirements   Civil / Drainage   LUP / Setback requirements   LUP / Setback requirements   LUP / Setback requirements   LUP / Setback requirements   Set Details of the Maximum Permit Inspector of the Maximum Permit Inspe		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:  Phone:	
Land clearing, grading, filling and foundation work within geologic hazard areas is <b>NOT PERMITTED</b> between October 1 and April 1 without an approved Seasonal Development Limitation Waiver.  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  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.  Permit number  Approved by  Date		Building setback survey   Impervious surface survey   Other:   Other:   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 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		Land clearing, grading, filling and foundation work within geologic hazard areas is <b>NOT PERMITTED</b> between October 1 and April 1	
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.  Permit number  Approved by  Date	Ī	Geotechnical Report provided. All construction must comply with the recommendations of the Geotechnical Report. A copy of	DSG
	5	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	LETED BY
		Permit number Approved by Date	COMP

is the applicant's resp www.MyBuildingPermit	· · · · · · · · · · · · · · · · · · ·	tions appropriate for the project. Request inspections online at ) 275-7730. Allow at least 24 hours (48 hours for Reinforcing steel)		
Inspector shall initial applicants responsibi	and date appropriate inspection only if approved lity to apply for and obtain all City of Mercer Isla	d. Note: <i>Items marked with an "*" require a separate permit.</i> It is the nd permits.	ERMIT NUMBER	
	Pre-construction Meeting to Review Conditions	of Permit Approval.	<b>Z</b>	
* <u></u>	Tree protection Erosion control		<b> </b>	
*	Sewer disconnect and cap. If applicable, separat			
*	Right-of-way use or work / easement, material of separate ROW permit required	delivery, etc. If applicable,		
	Land clearing, grading and demolition		NC	
	Temporary power	de european letter	S pe	
	Pilings / Shoring / Shotcrete. If applicable, provi (property line); Geotechnical Engineer / Special		PA have	
	reports of inspections (pile and shoring installat	ion, etc.)	nspections d approved.	
	Footings, setbacks, UFER ground. If applicable, p (building height and setbacks); Special Inspecto		OCCU	
_	(soil bearing capacity, compaction, earthwork, p		insp d ap	
	Foundation walls / concrete columns Roof and footing drains		or ired	
	Foundation damproofing		FICATE Of the feet all required performed an	
*	Storm drainage, including (but not limited to):	. Auga aluaina	ATT all req erform	
	Connections to storm     main in ROW	Area drains     Conveyance piping / cleanouts	ter:	
	• Detention systems	Storm drain in ROW	d af	
	<ul><li>Infiltration systems</li><li>Catch basins including</li></ul>	<ul><li>Control structures / manholes</li><li>Pump systems</li></ul>	Ssue	
_	oil-water separator tees	Retaining wall drainage		
*_	Water Service Water Supply			
	Water as-built drawings			
*	Side sewer installation, including (but not limite			
	• Connections to side sewer main	Back-flow valves     Grinder pump systems		
	Connections to existing	• Sewer manholes		
	side sewer Driveway / Access road			
	Underslab electrical / mechanical / plumbing			
	Underslab insulation / vapor barrier / reinforcin Underfloor framing	g		
	Nailing-Roof sheathing. If applicable, provide Sp	pecial Inspection		
	letter for lateral wood inspection.	a provide Chesial		
	Nailing-Exterior wall and Shearwall. If applicable Inspection letter for lateral wood inspection.	e, provide Special		
	Rough hydronic installation			
<u></u>	Rough electric installation Rough fire alarm (wiring inspection)			
	Rough plumbing installation (DWV, water)			
	Rough mechanical Gas Piping			
*	Rough fire sprinkler / hydrostatic and flow (buck			
	Framing and glazing. If applicable, provide Specilateral wood inspection, welding epoxy anchors			
	Masonry construction (fireplace / walls / veneer			
	Insulation installation Stucco (paper and lath)		_	
	Shower pan (or tub)			
	Miscellaneous Code Alternative CA1:			
	Code Alternative CA1:			
	Impact Fees Paid (If applicable)			
	Final Inspection: Tree Restoration		1	
	Final Inspection: Fire protection, including (but			
	• Sprinkler • Access Road	Fuel Tank Installation     Fire Extinguishing System		
	• Fire Code Alternatives (see below)	Fire Alarm System		
	☐ FCA1: ☐ FCA2:	FCA3:  ☐ FCA4:		
	Final Inspection: Water supply protection, inclu		<b>V</b>	
	backflow devices for:  • Waterfront property	Well water on property		
	• Fire / lawn sprinkler	Boiler	J 5 5	<b>5</b>
	<b>Final Inspection:</b> Site and utility: includes landso		42 4	T
	restoration complete and as-built drawings read Final Inspection: Building, including electrical /	·		j
	applicable, provide closeout (summary) letters f	from Engineer, Special		X
	Inspectors, Geotechnical Engineer, and exterior			
	RARY CERTIFICATE OF OCCUPAN	I prior to occupancy. TCO requires tree plantings be completed.	F 20 H	
pplicant option. Addit	onariees will be required and must be approved	i prior to occupancy. Teo requires tree plantings be completed.	MES ANCE	
			BE I	
Approved		Start Date End Date	ALL ALL	
	QUIRED CITY INSPECTIONS:		MUS AT /	
	tact to arrange the inspection. Con	rtact: Phone: Scheduling:	1.1	
Required Inspection(s			DRAWINGS ILDING SITE FOR CODE	
			RA LDIN	
MPACT FEES:		PLAN REVIEW APPROVALS:		
<sup>:</sup> applicable.		Not all review disciplines may be required to review the documents.		
	ply and are due <i>prior</i> to Final Inspection or on		ROV I THE	
	, whichever occurs first.		APP ON REV	
Date		Building Planning Engineering Tree Fire		

REVISED: JULY 2019

ATE

PROJECT NO.

SHEET NO.



4-27-2021

BASEMENT FLOOR

BUILDING FOOTPRINT 1694 SF

273 SF

958 SF

1231 SF

73 SF

LIVING

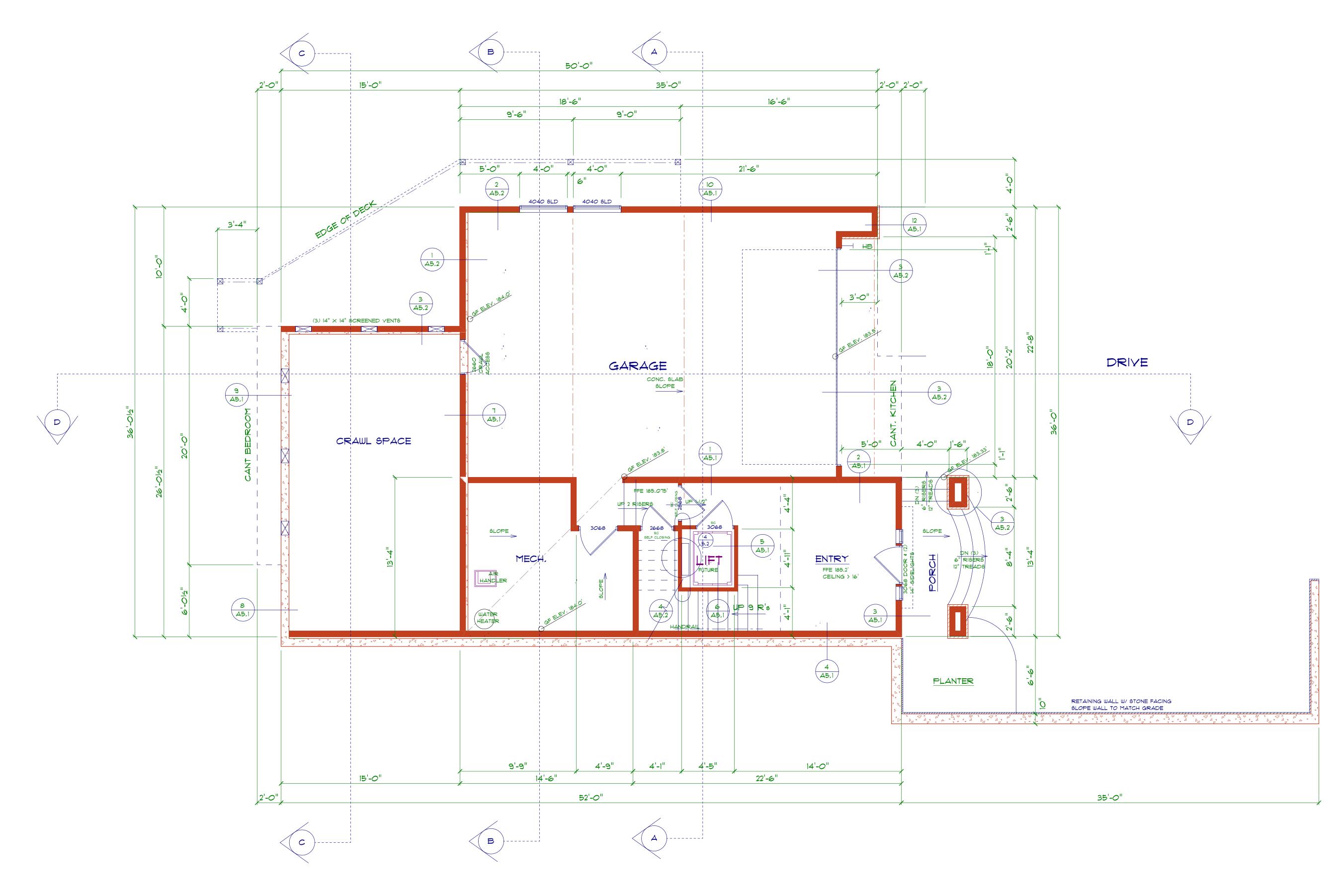
TOTAL

PORCH

GARAGE

PROJECT NO.

SHEET NO.

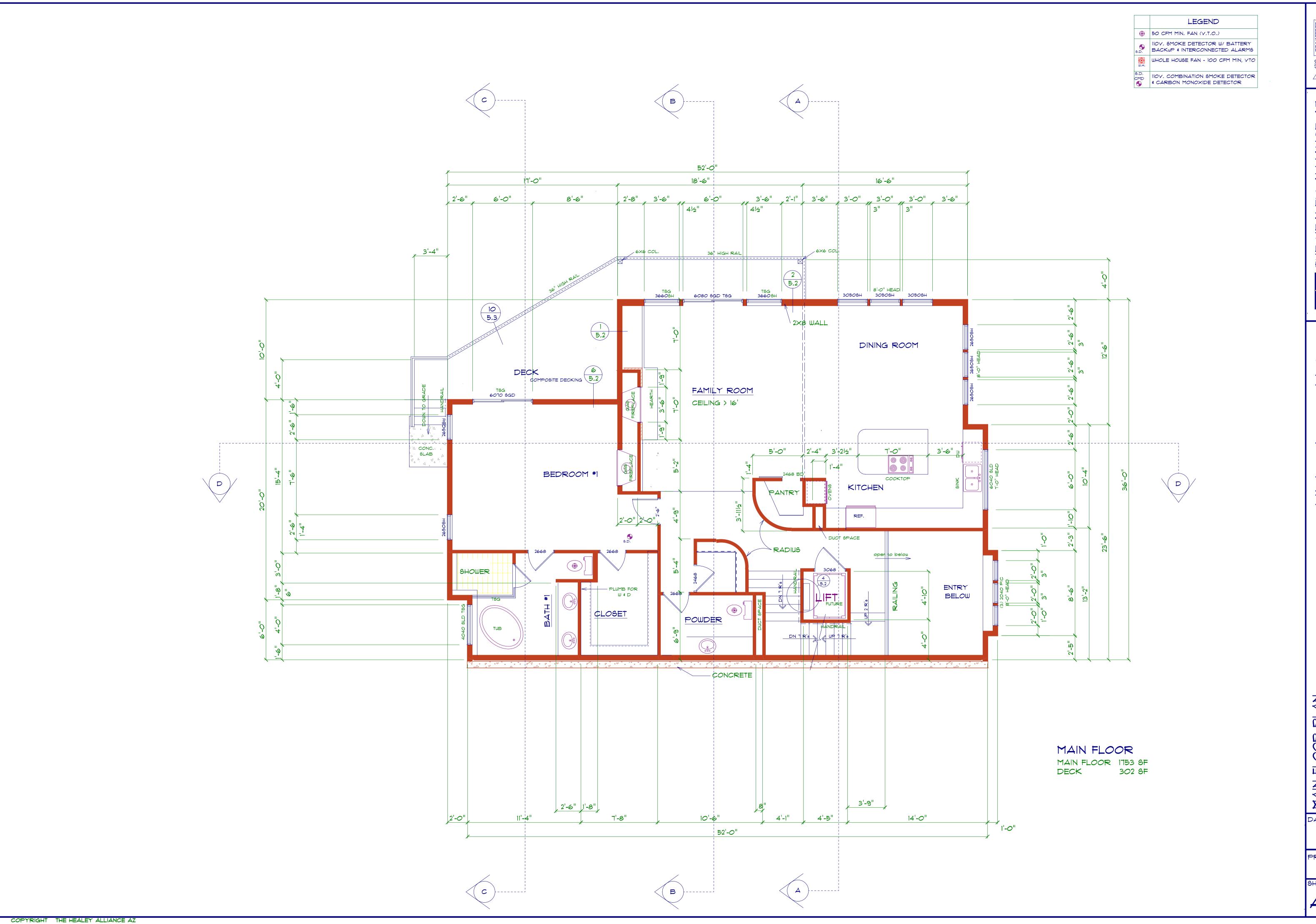


### CRAWL SPACE VENTILATION

CRAWL SPACE AREA ----- 365 S.F. VENT. AREA REQ.D. (A/150 x 144) ----- 351 S.I. 8x14 SCREENED YENTS CLEAR AREA ---- 84 S.I. 14x14 SCREENED VENTS CLEAR AREA ---- 147 S.I.

TOTAL 693 SI

NUMBER OF YENTS: (3) 8×14 (4 × 84) -----(3) 14×14 (3 × 147) --------- 441 SI



A2IO REGISTERED
ARCHITECT
RONALD R. HEALEY
STATE OF WASHINGTON

EALEY ALLIANCE AZ
DRIVE, GOODYEAR, AZ. 85395 - (425) 444-6768
R C H I T E C T 8

TT Spoot N

reehouse, LLC,
31 EAST MERCER WAY

AIN FLOOR PLAN

0ATE 4-27-2*0*21

PROJECT NO. 001

Δ2 2

LEGEND

S.D. SMOKE DETECTOR W/ BATTERY BACKUP & INTERCONNECTED ALARMS

WHOLE HOUSE FAN - 100 CFM MIN, VTO

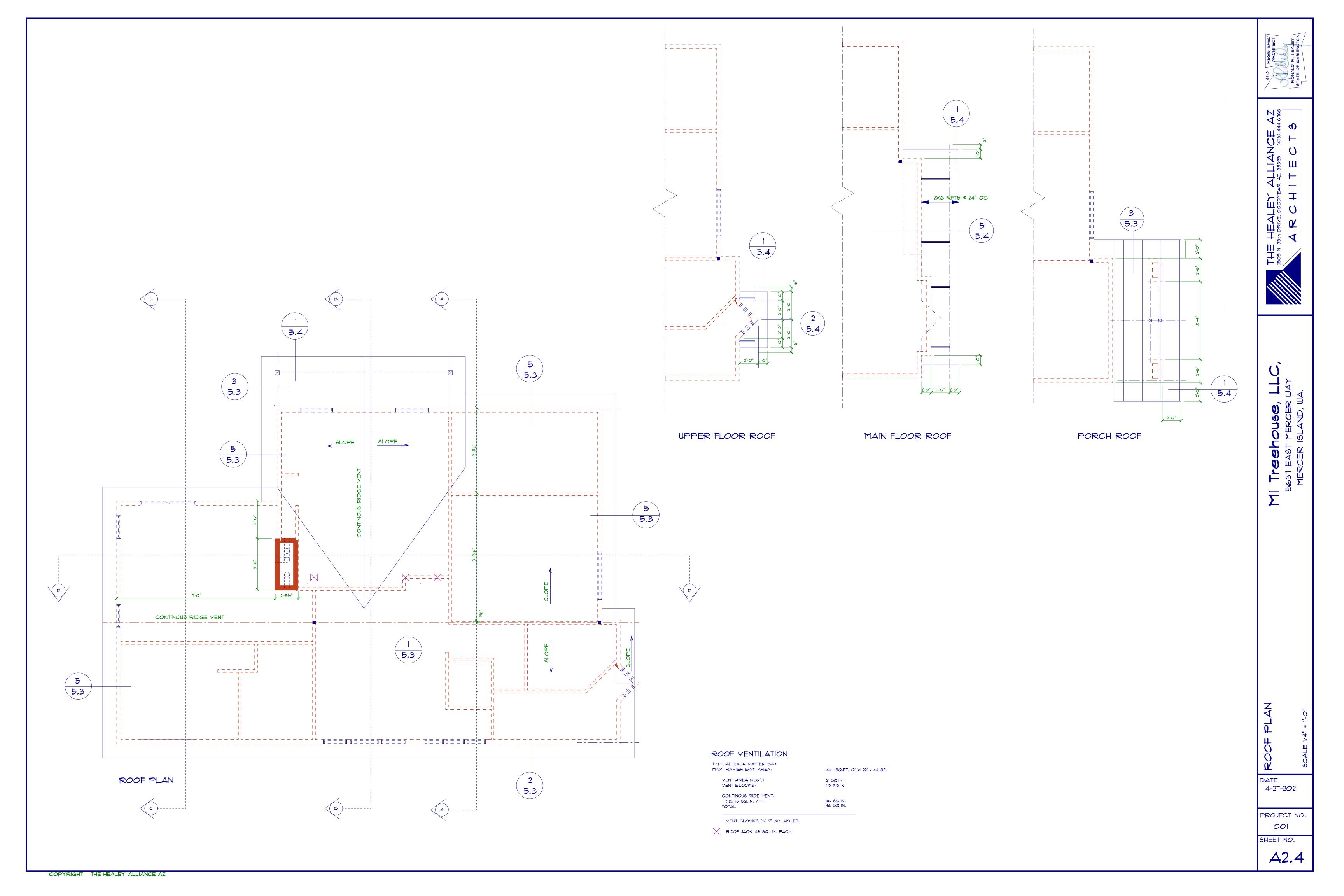
6.D. CMD IIOV. COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

⊕ 50 CFM MIN, FAN (∀,T,O,)

119 SF

HEET NO.

35'-0" 6'-0" 8'-6" 18'-6" 16'-6" 2'-7" 3'-6" 412" 6060 PIC 5.3 - CEILING- < -60"-5.3 FAMILY ROOM 5.2 COMPOSITE DECKING 6070 SGD TSG (2)2668 CEILING ! GUEST ROOM 5.3 36" HIGH RALING BEDROOM #2 -- CEILING -> 12'----LAUNDRY, SHOWER 2650SH 3050SH 2650SH WINDOW HEAD 1-0" AFF 5.3 5.3 UPPER FLOOR 1345 SF

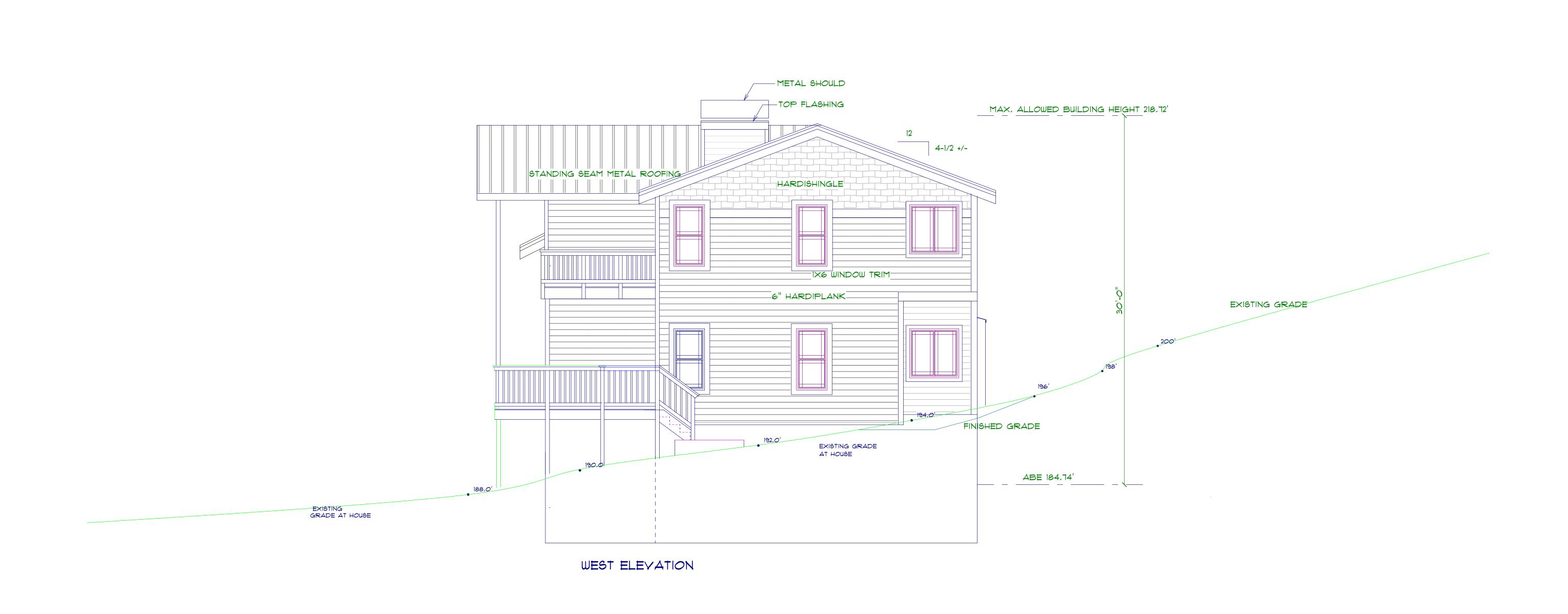


SHEET NO. **43.1** 



04-27-2021

PROJECT NO. 001



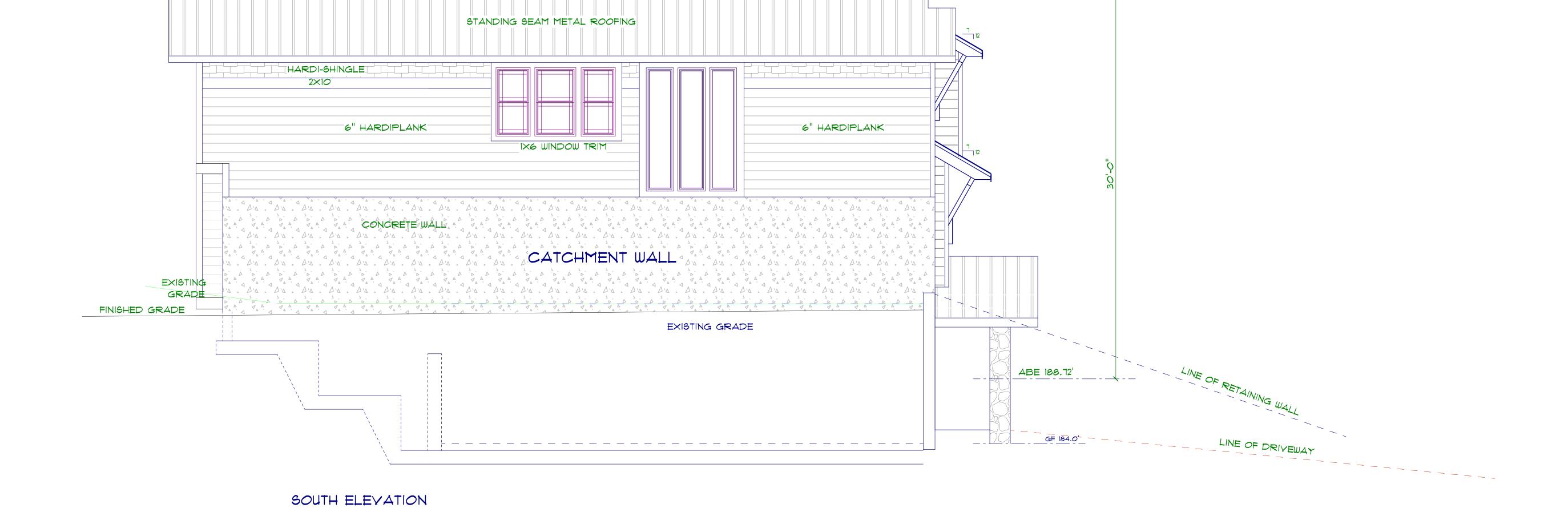
HOUSE, LLC, MERCER WAY ISLAND, WA,

MI Treehouse, LL 5031 EAST MERCER U MERCER ISLAND, WA

SOUTH ELEVATIONS

DATE 04-27-2021 PROJECT NO.

001 SHEET NO.



MAX. BUILDING HEIGHT 218.72'

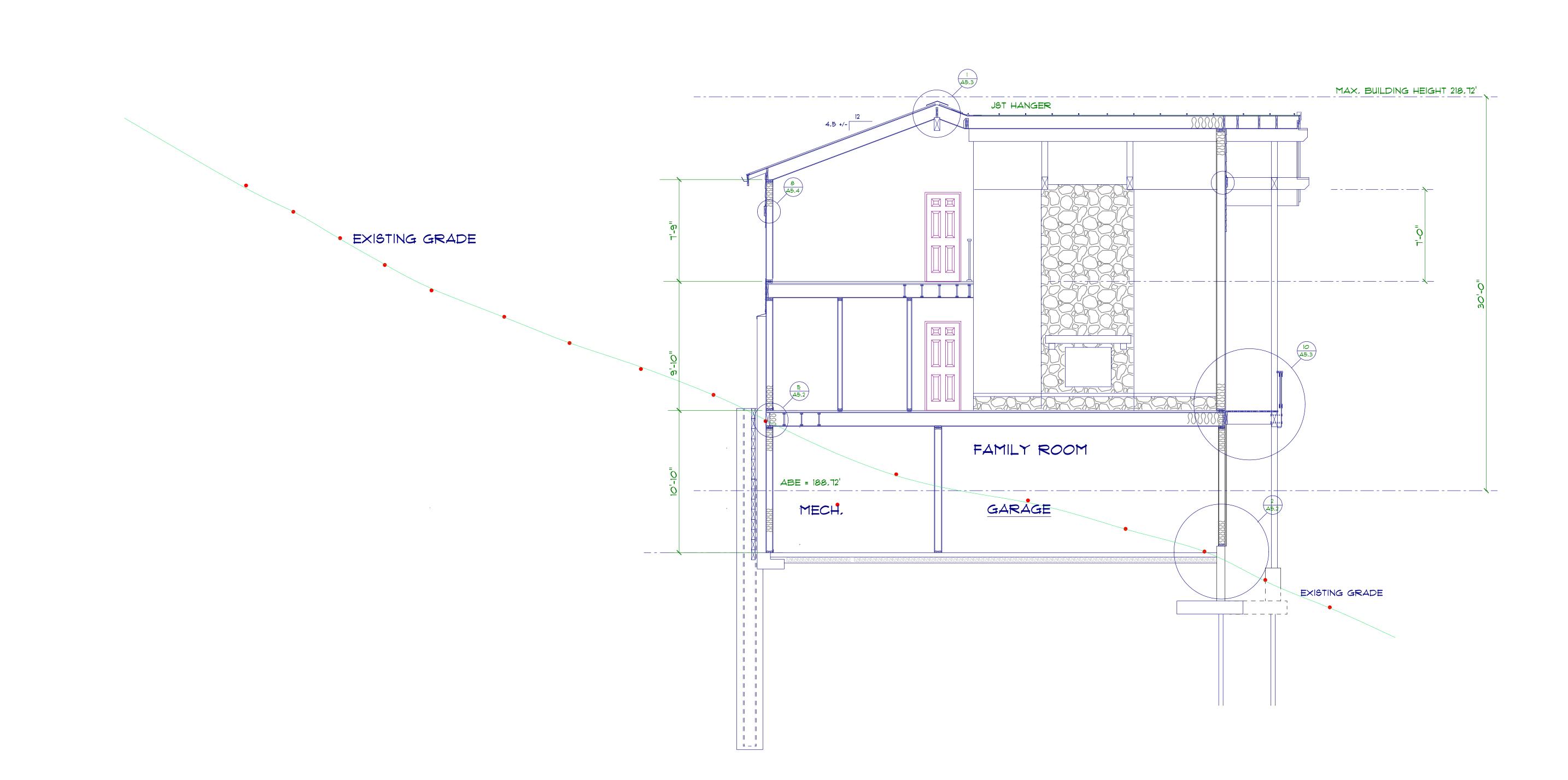
001



DATE 04-27-2021

DATE 04-27-2021

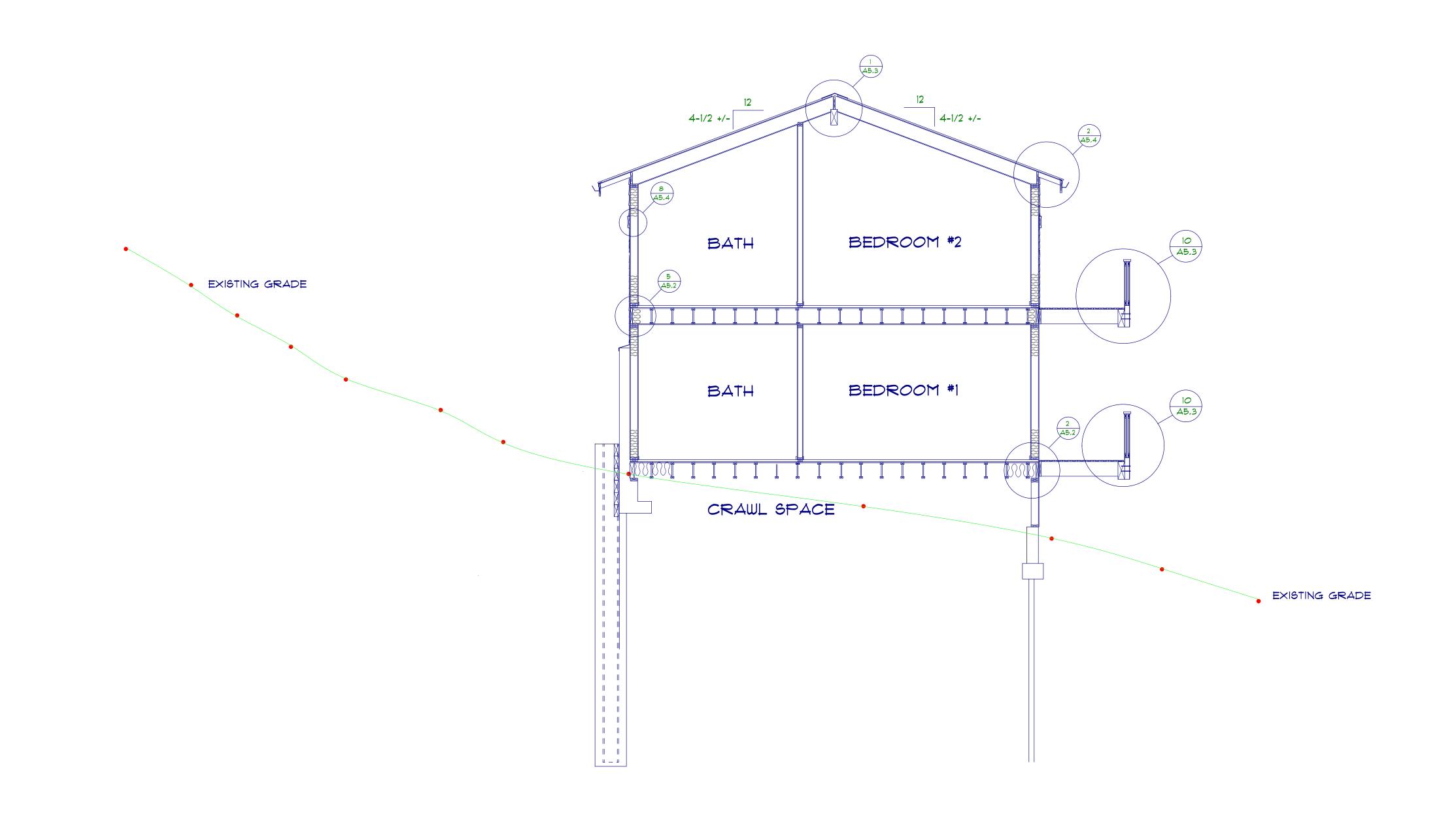
PROJECT NO.



PROJECT NO.

SHEET NO.

A4.3

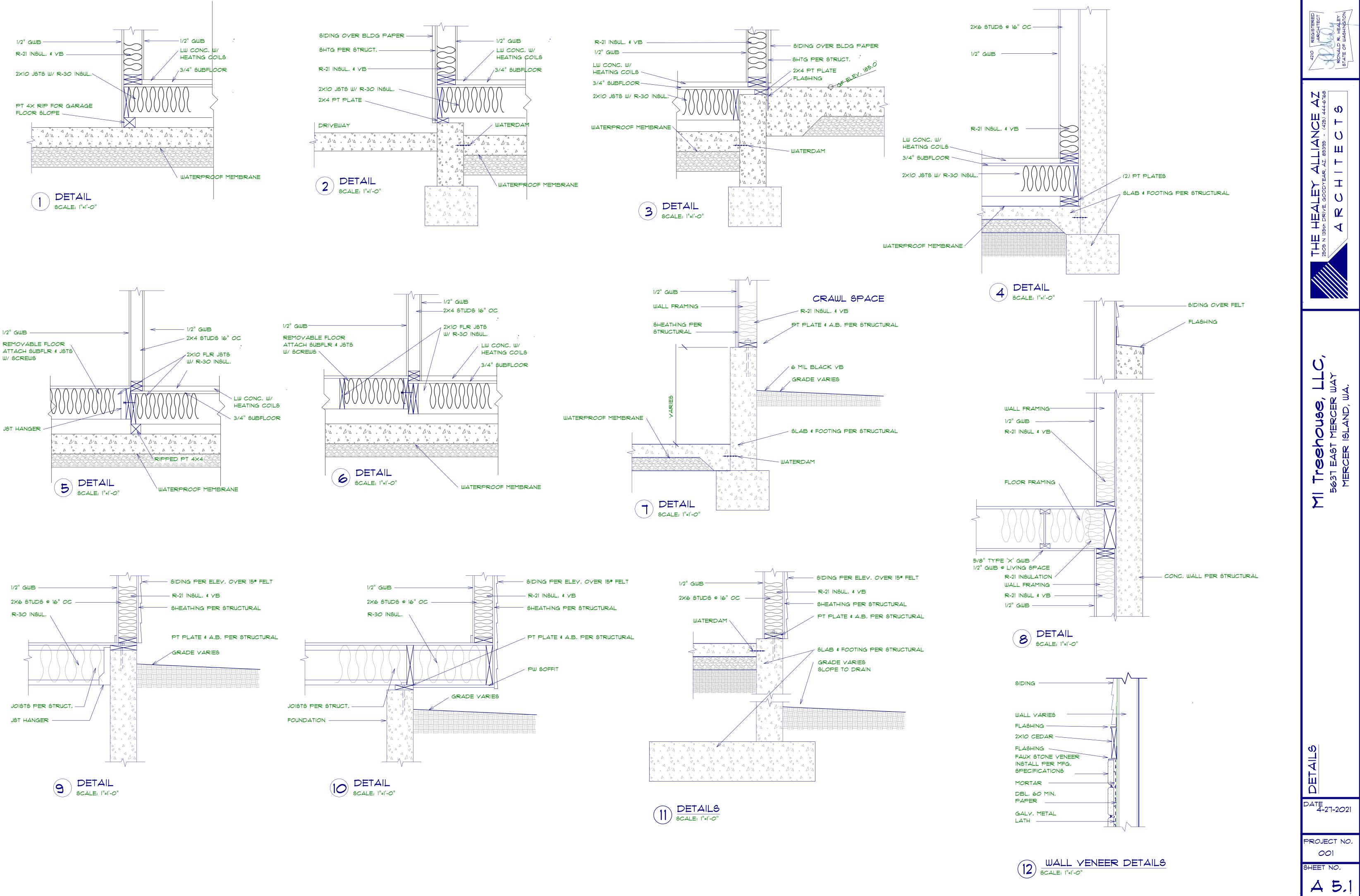


DATE 4-27-2*0*21

PROJECT NO.

SHEET NO.

G BDRM BDRM #2 BDRM #1 GREAT RM DINING EXISTING GRADE GARAGE DRIVEWAY









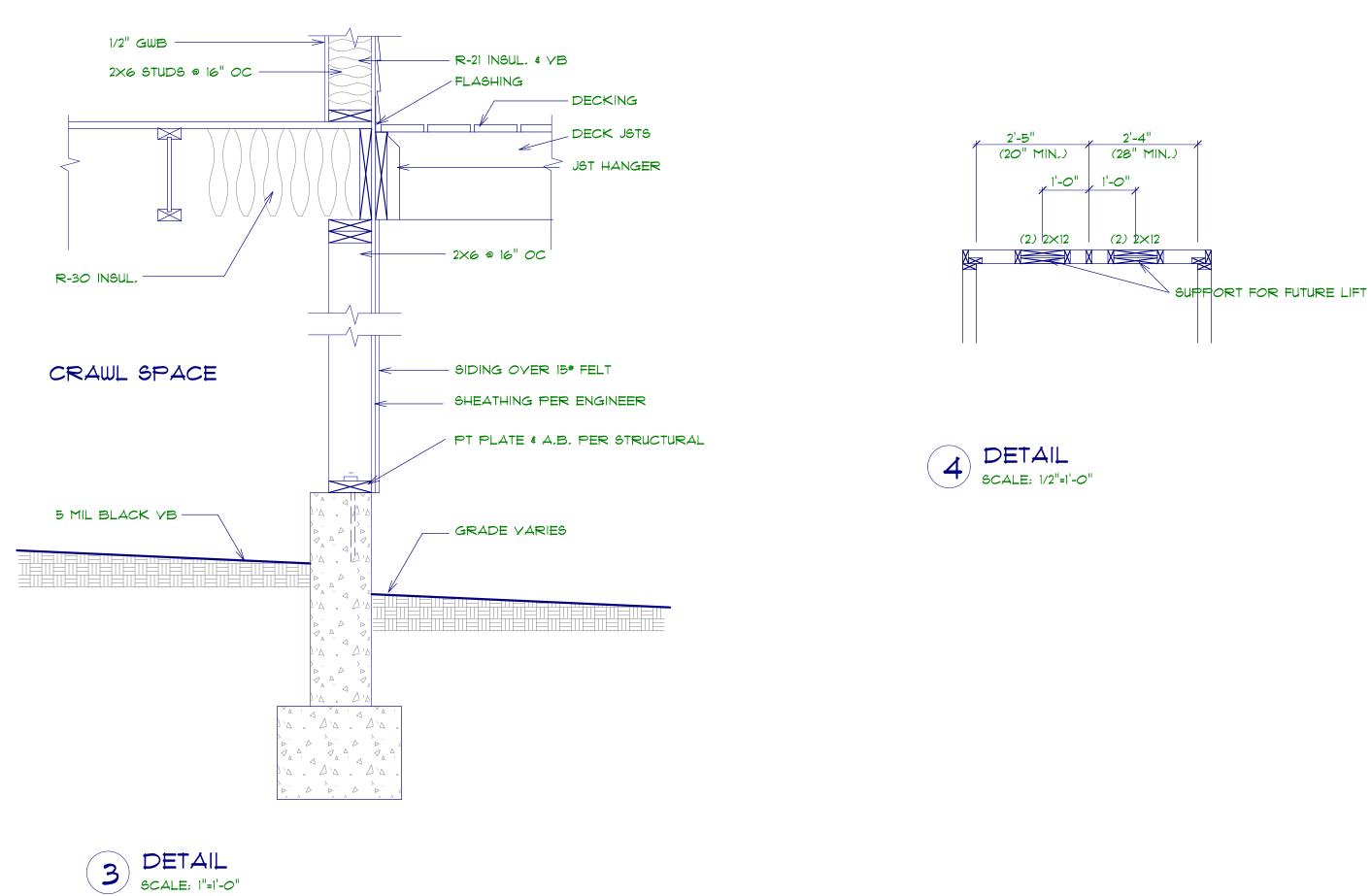
7-27-2021

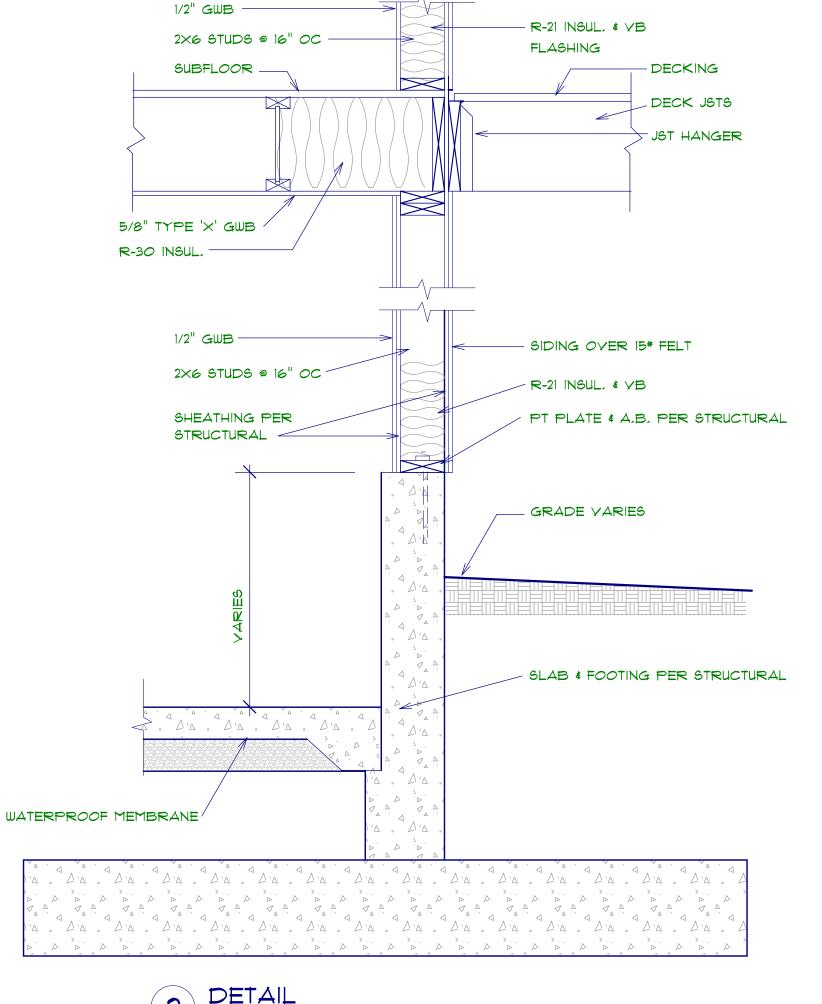
PROJECT NO.

SHEET NO.

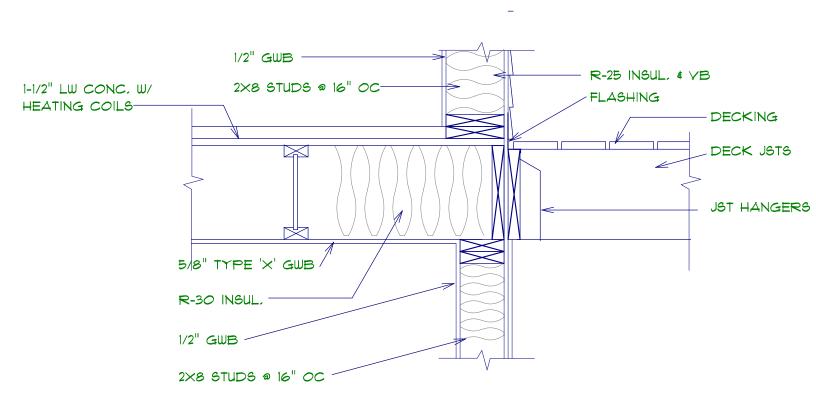
A5.2





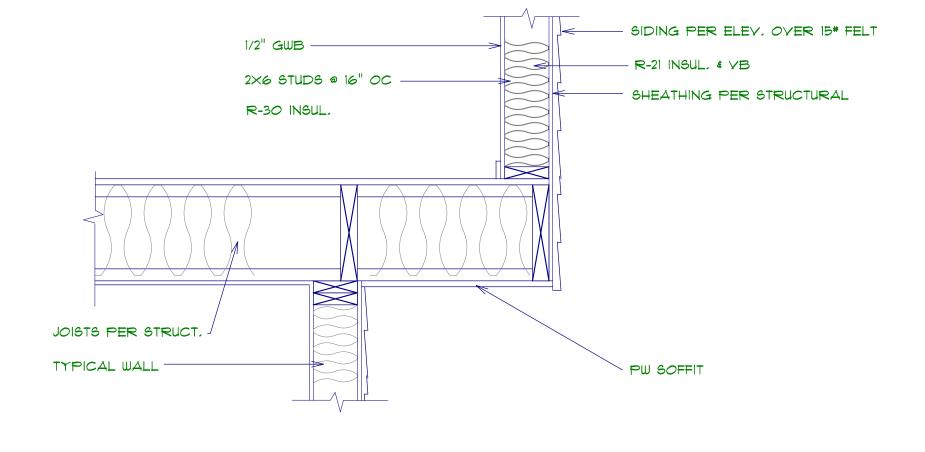






DETAIL SCALE: 1"=1'-0"







5 DETAIL SCALE: 1"=1'-0"

1/2" GWB ---

SUBFLOOR \_\_\_

R-30 INSUL.

1/2" GWB —

2×6 STUDS @ 16" OC -

SHEATHING PER

STRUCTURAL -

DETAIL SCALE: 1"=1'-0"

SIDING PER PLAN

OVER BLDG FELT-

2× RIM JOIST-

SHEATHING PER PLAN-

SHEARWLL PER PLAN-

WATERPROOF MEMBRANE

2X6 STUDS @ 16" OC -

R-21 INSUL, \$ YB

- SIDING OVER 15# FELT

PT PLATE & A.B. PER STRUCTURAL

- SLAB & FOOTING PER STRUCTURAL

-2x6 STUDS @ 16" O.C.

-1/2" G.W.B.

1/2" G.W.B.

-1/2" G.W.B.

—— 1-1/2" LW CONC, W/

HEATING COILS

-3/4" P.W. SUBFLOOR

−2x6 STUDS @ 16" O.C. R-21 INSULATION

R-21 INSUL, & VB

GRADE VARIES

- DECKING

DECK JSTS



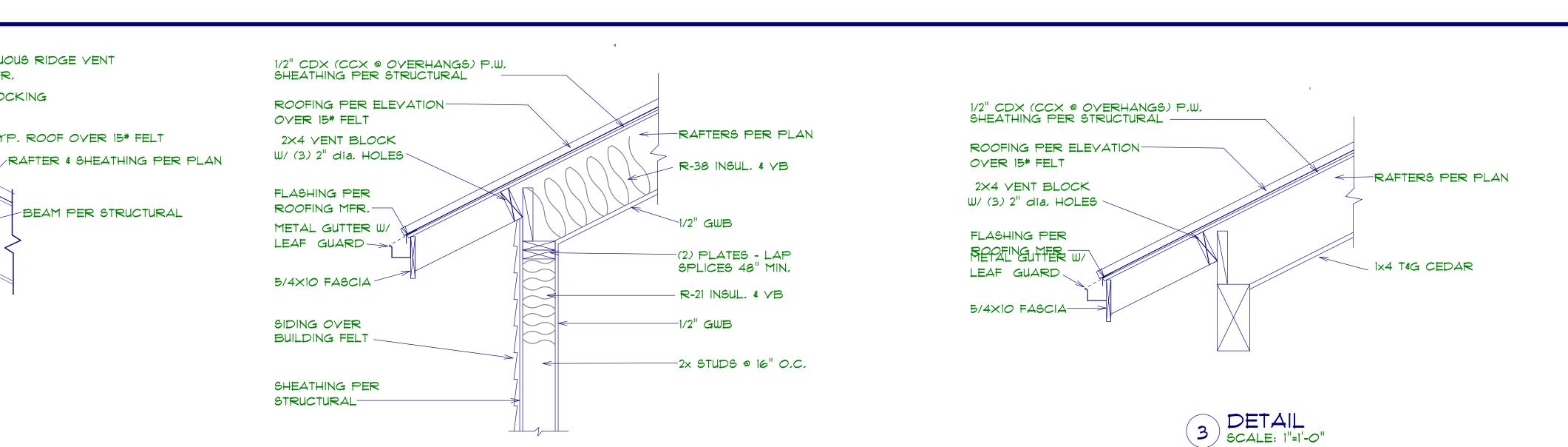
ALLIANCE 4R, AZ, 85395 - (425) 44 HEALE 5th DRIVE, GOOD 25.05 N 13

CEPT MERCER
RCER ISLAND, W,

DATE 4-27-2*0*21

PROJECT NO. 001

SHEET NO. A-5.3



- RAFTERS PER PLAN

-(2) PLATES - LAP

SPLICES 48" MIN.

R-21 INSUL, & YB

-2x STUDS @ 16" O.C.

-1/2" GWB

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

/BLOCKING PER ENGINEER 1/2" CDX (CCX @ OYERHANGS) P.W. (3) 2" YEE NOTCHES PER BLOCK SHEATHING PER STRUCTURAL , RAFTERS PER PLAN ROOFING PER ELEVATION OVER 15# FELT -R-38 INSUL, & YB FLASHING PER MFR-1/2" CDX (CCX @ OYERHANGS) P.W. SHEATHING PER STRUCTURAL -ROOFING PER ELEVATION-OVER 15# FELT 2X4 YENT BLOCK - 1/2" GWB 5/4×10 FASCIA -W/ (3) 2" dia, HOLES -(3) 2" dia, HOLES EACH BAY FLASHING PER (2) PLATES - LAP ROOFING MFR. SPLICES 48" MIN. SIDING OVER METAL GUTTER W/ BUILDING FELT R-21 INSUL, & YB LEAF GUARD \_ 1/2" GWB SHEATHING PER 5/4×10 FASCIA STRUCTURAL-- 2x STUDS @ 16" O.C. SIDING OYER BUILDING FELT 5 DETAIL SCALE: 1"=1'-0" SHEATHING PER STRUCTURAL-

CONTINUOUS RIDGE VENT

/TYP, ROOF OVER 15# FELT

BEAM PER STRUCTURAL

PER MFR.

R-38 INSUL, & YB

1/2" GWB

DETAIL

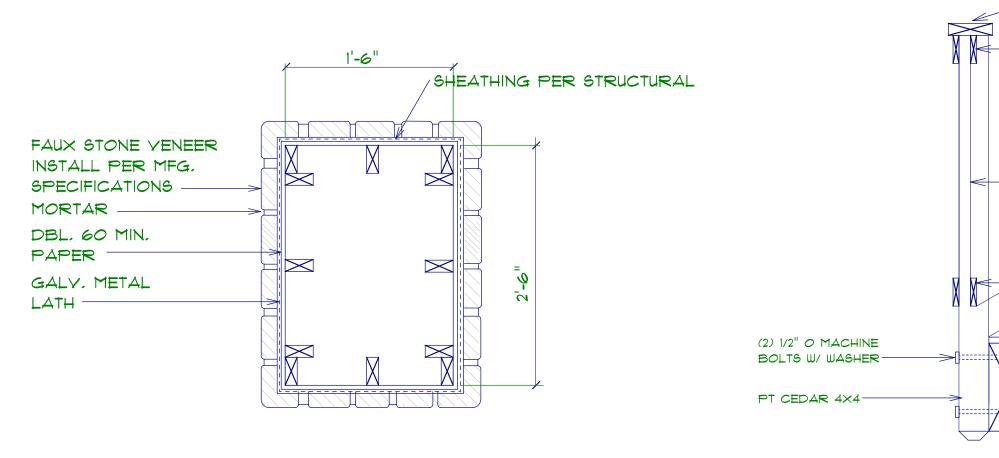
SCALE: 1"=1'-0"

/2X10 BLOCKING





1/2" GWB



6 DETAIL SCALE: 1"=1'-0"



DECK RAILING

JOIST HANGER

DECKING PER PLAN

FRAMING

PER PLAN

-2x6 CEDAR

1x4 EA SIDE CEDAR

-2×2 @ 5 1/2" O.C.

-IX4 EA SIDE

CEDAR

SIDING OVER BUILDING FELT-

FLASHING

2XIO CEDAR BAND-

NOTCH OVER SIDING -

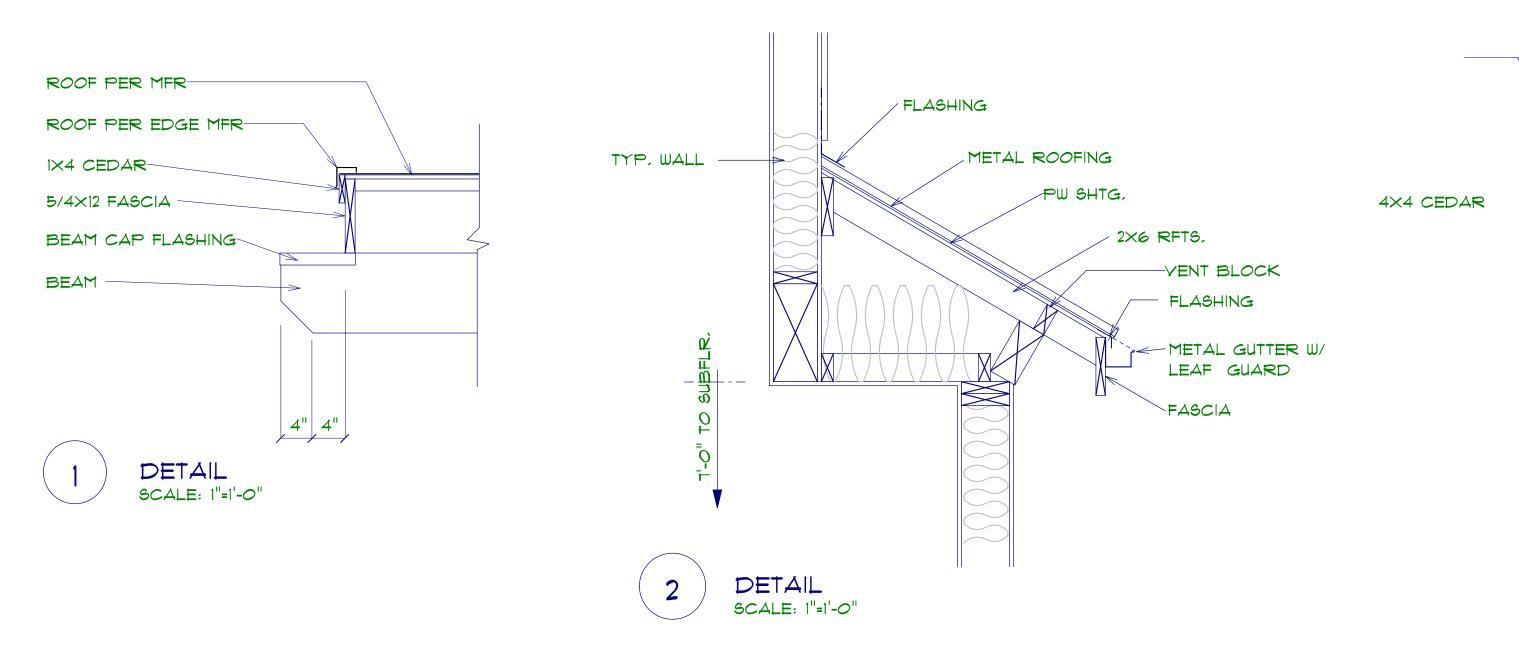
SIDING OVER

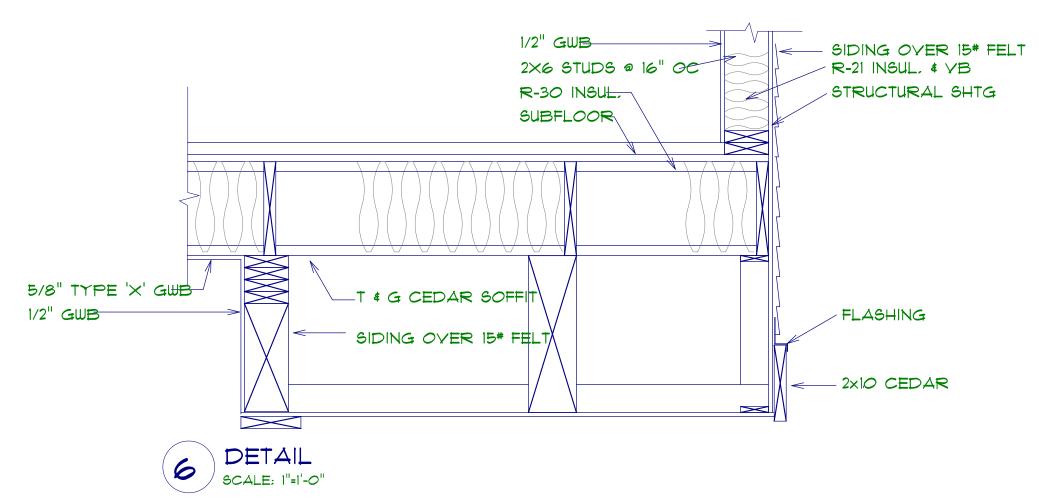
BUILDING FELT

DATE **6-25-2020** 

PROJECT NO.

A-5.4





3 DETAIL SCALE: 1"=1'-0"

5/8" TYPE 'X' GWB

1/2" GWB

1/2" GWB-

R-30 INSUL.

SUBFLOOR

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

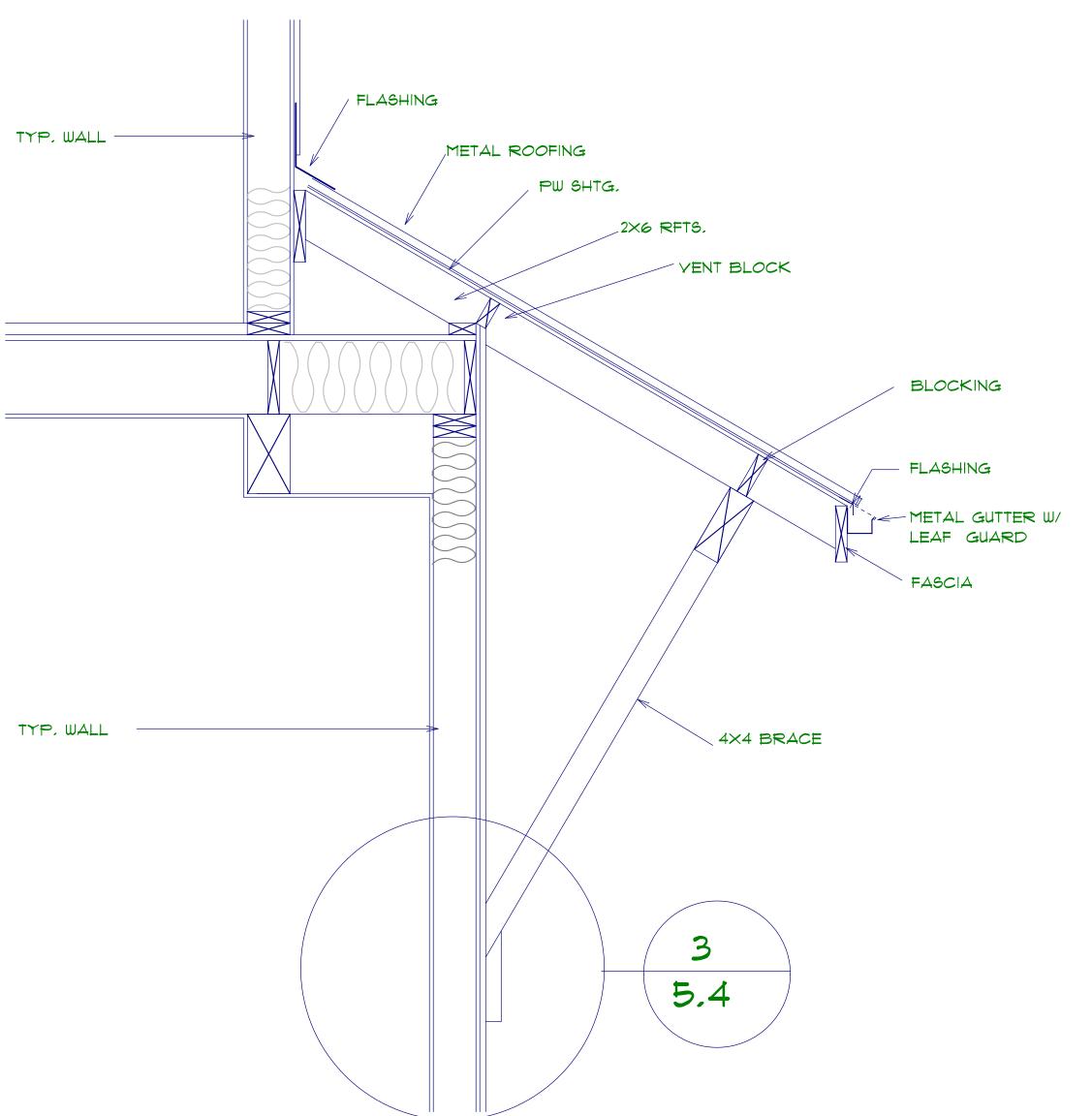
2×6 STUDS @ 16" OC

SIDING OVER 15# FELT R-21 INSUL, & VB

STRUCTURAL SHTG

/ FLASHING

< 2x10 CEDAR



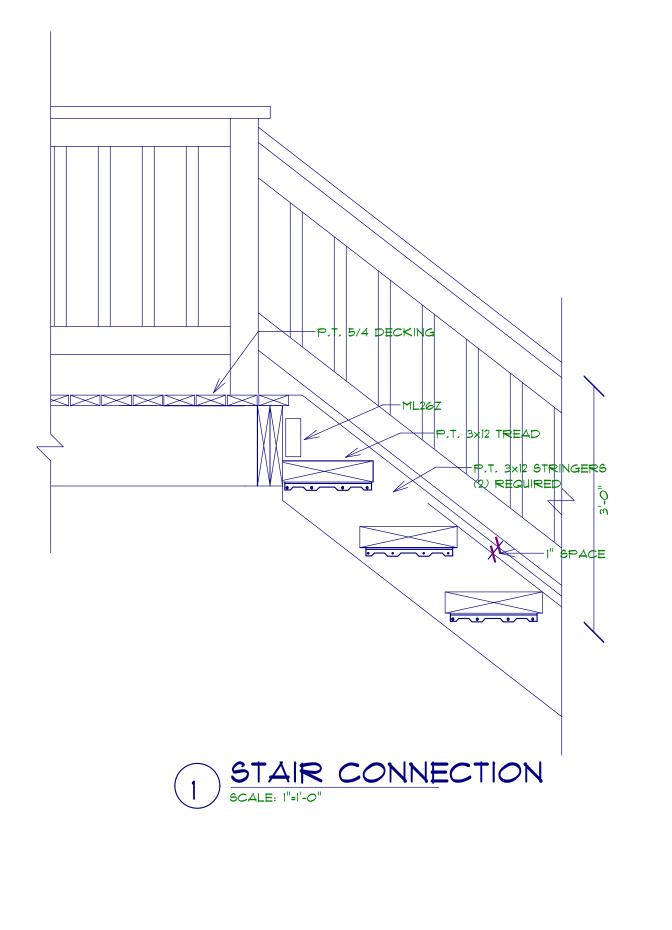
5 DETAIL SCALE: 1"=1'-0"

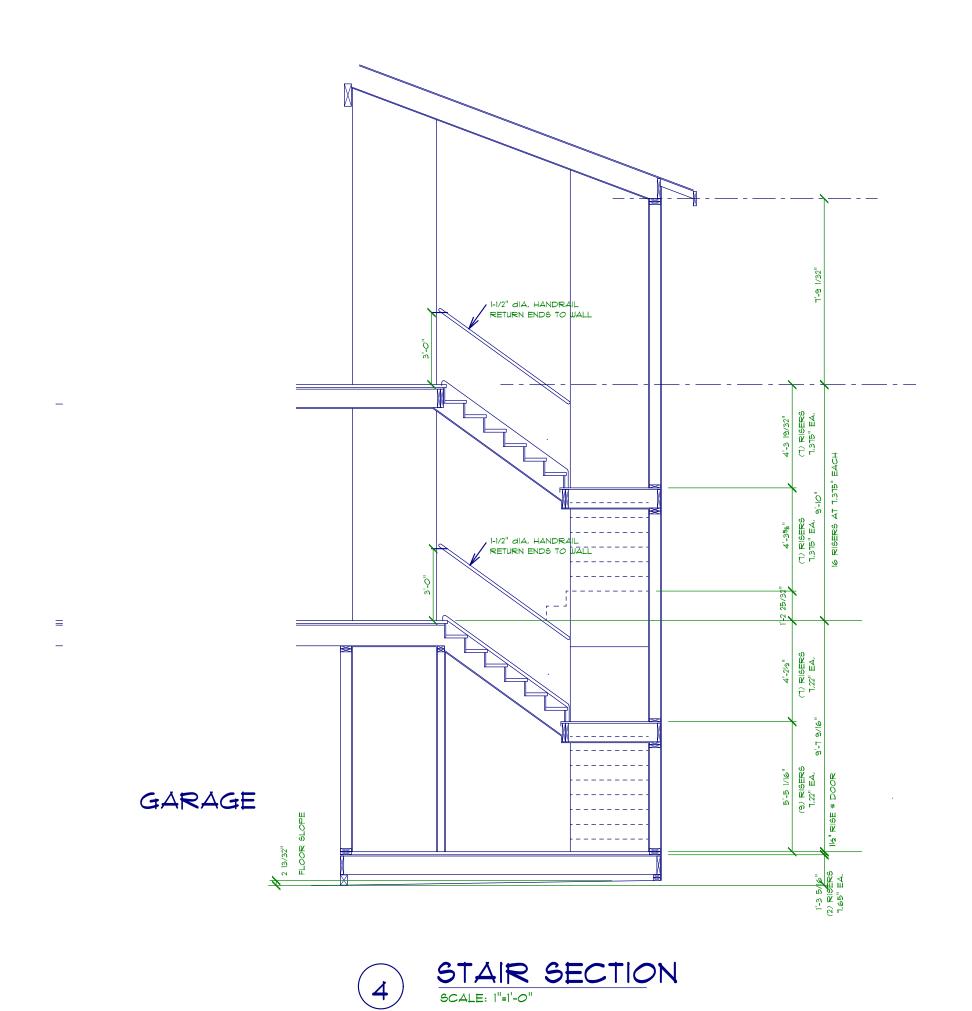
COPYRIGHT THE HEALEY ALLIANCE PS, INC.

PROJECT NO.

SHEET NO. A5.5

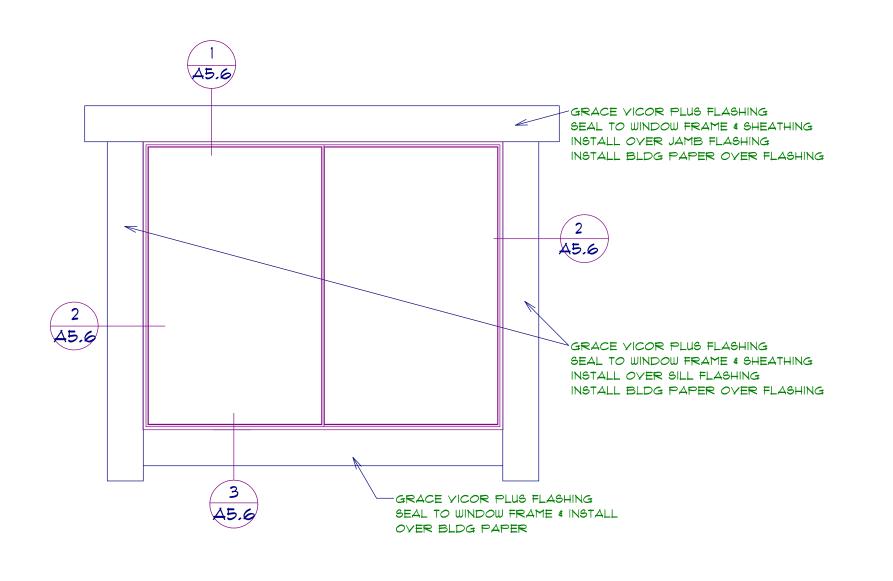
COPYRIGHT THE HEALEY ALLIANCE PS, INC.



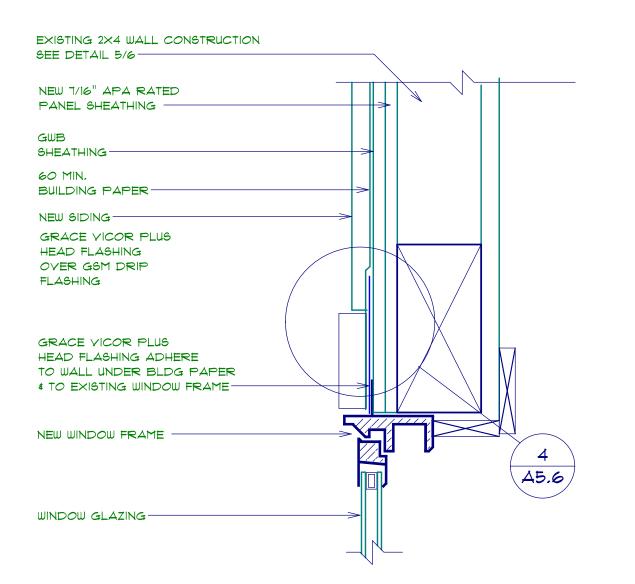


PROJECT NO. 001

ВНЕЕТ NO. **А 5 6** 

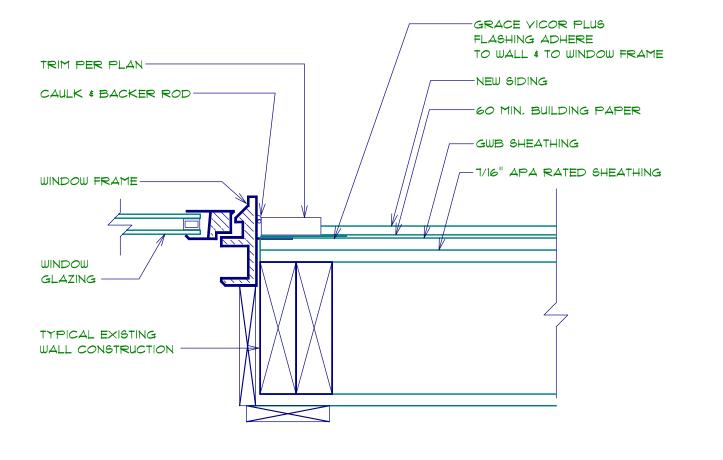


WINDOW FLASHING FOR EXISTING WINDOWS



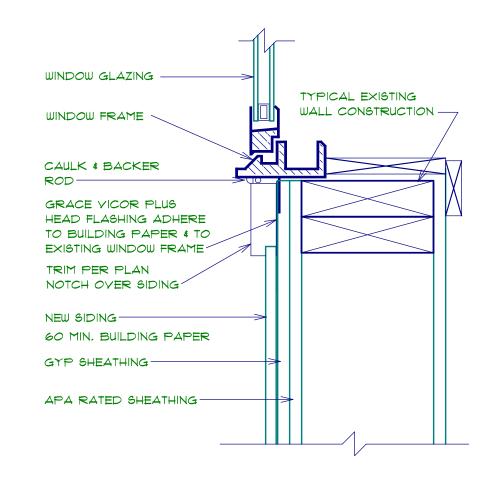
DETAIL #1

6CALE 3" = 1'-0"



DETAIL #2

SCALE 3" = 1'-0"



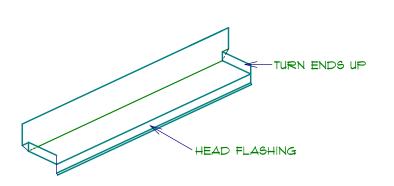
DETAIL #3

SCALE 3" = 1'-0"

# APA RATED WALL SHEATHING GYP SHEATHING 60 MIN. BUILDING PAPER NEW SIDING GRACE VICOR PLUS HEAD FLASHING OVER GSM DRIP FLASHING BAND TRIM PER PLANS TYPICAL EXISTING WALL CONSTRUCTION

DETAIL #4

SCALE 3" = 1'-0"



DETAIL #5

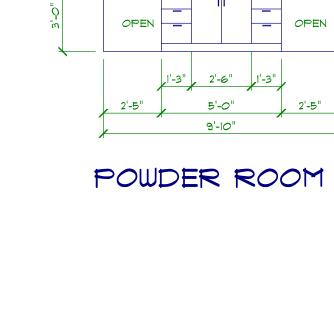
SCALE 1" = 1'-0"

# WINDOW SCHEDULE

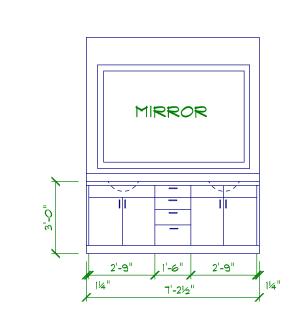
LOCATION	TYPE	QTY	SIZE	U-FACTOR	AREA
ENTRY	PIC	2	2040	0.24	24
KITCHEN	SLD	1	6040	0.24	24
DINING	SH	3	2650	0.24	37.5
DINING	SH	3	3050	0.24	45
FAMILY	SH	2	3660	0.24	42
FAMILY	SGD	1	6080	0.24	48
FAMILY	PIC	1	6060	0.24	36
FAMILY	PIC	2	3660	0.24	42
BDRM #I	SGD	1	6070	0.24	42
BDRM #1	SH	2	2650	0.24	25
BATH #1	SLD	1	4040	0.24	16
BDRM #2	SGD	1	6070	0.24	42
BDRM #2	SH	2	2650	0.24	25
BATH <b>#</b> 2	SLD	1	4040	0.24	16
LOFT	SH	2	2650	0.24	25
LOFT	SH	1	3050	0.24	15
STAIRS	PIC	3	2090	0.24	54
BATH #3	PIC	2	1640	0.24	12
BDRM #3	SGD	1	6040	0.24	24

DATE 4-27-2*0*21

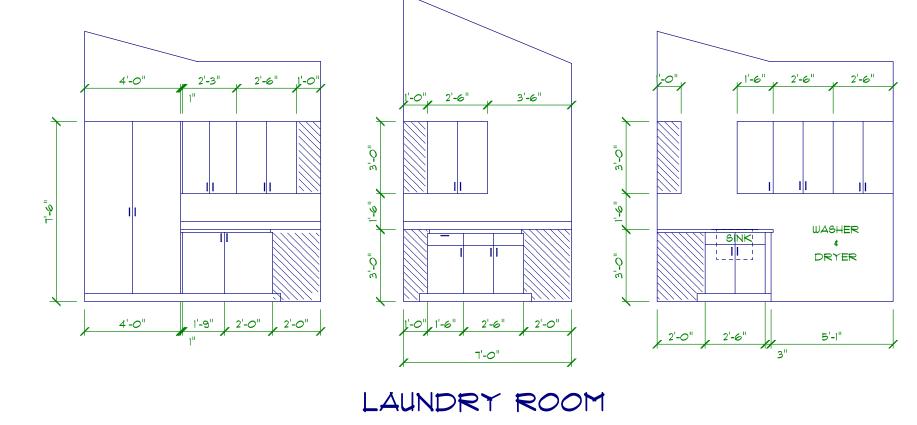
PROJECT NO.

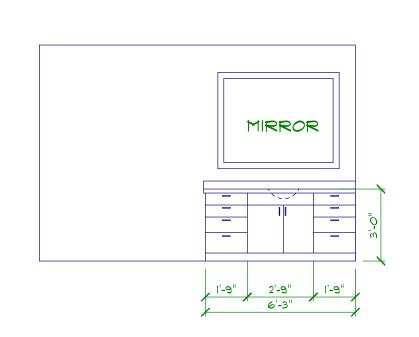


MIRROR

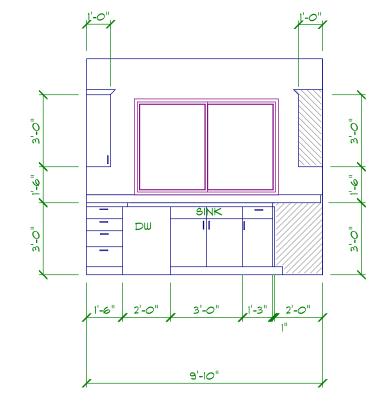


BATH CABINETS BATH #1 # #2

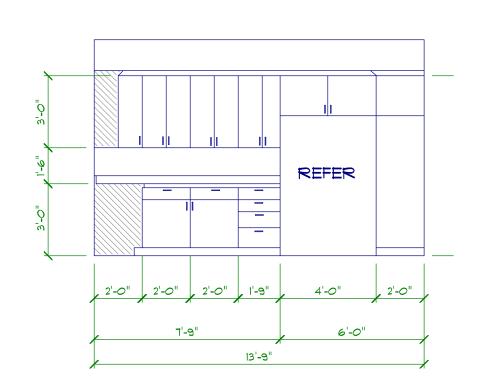




BATH CABINETS BDRM #3







FUTURE

STAIRS

STAIRS FUTURE

ENTRY

TOWER

FAMILY ROOM

DATE 4-27-2020

PROJECT NO.

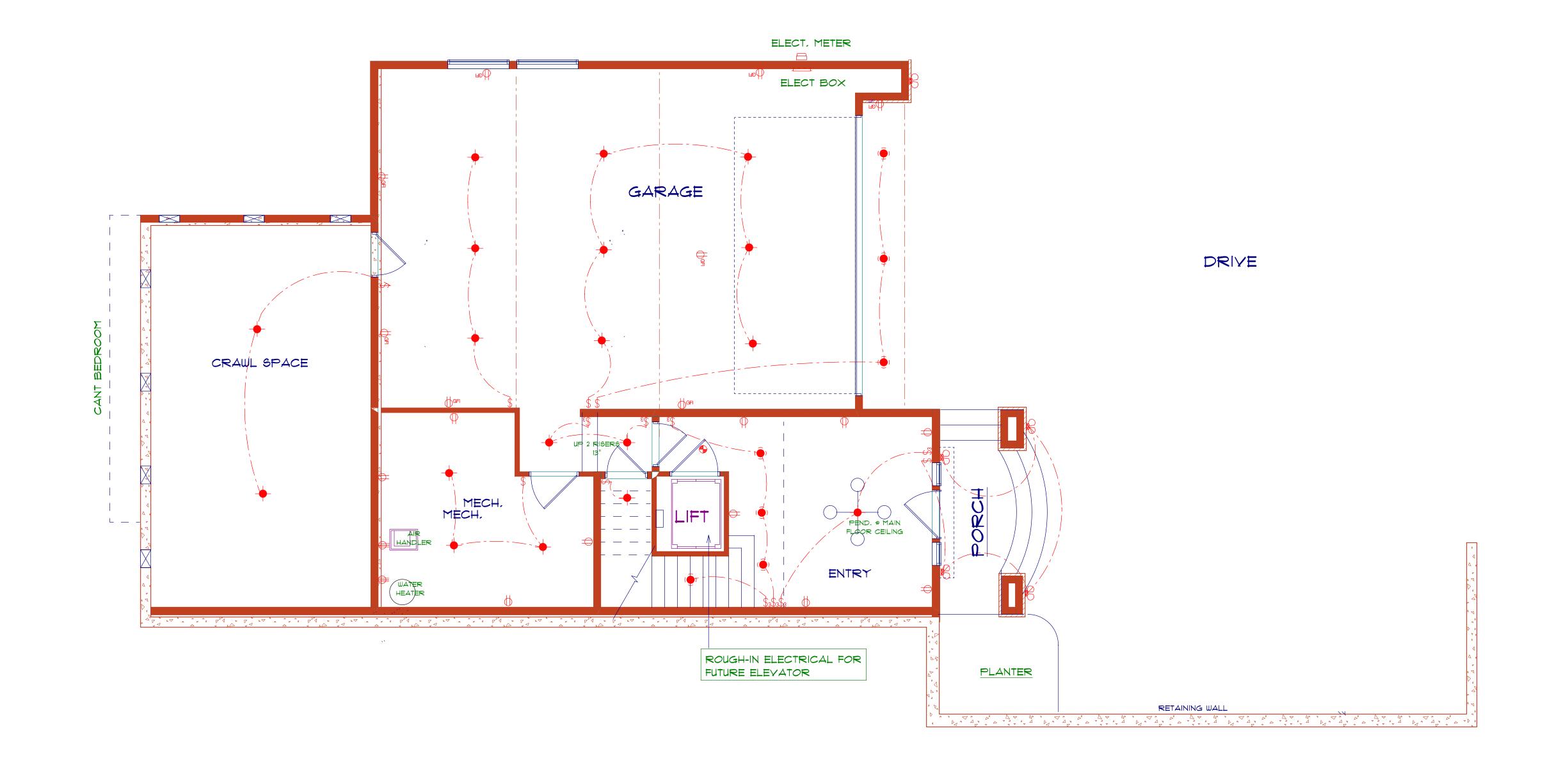
SHEET NO. **46.2** 

Recessed can Recessed directional Surface mount Wall Mount Flood QD Wall mount **\( \bar{\Phi} \)** Ф outlet **#** 220v Direct Wire outlet gfi • smoke detector split receptacle switch switch 3 way

ELECTRICAL

110 v direct connection

Outlet 110 gfi wp



ELECTRICAL	SYMBOL
110 v direct connection	φ
Outlet 110 gfi wp	₩ ₩
Recessed can	( )
Recessed directional	•
Surface mount	-
Wall Mount Flood	QD
smoke detector \$ carbon monoxide det	CMD ①
Wall mount	<del>-</del>
fan	₩
outlet	Ф
220∨	<b>#</b>
outlet gfi	⊕ GFI
smoke detector	•
split receptacle	•
switch	\$
switch 3 way	\$3

110Y, 6MOKE DETECTOR W/ BATTERY BACKUP & INTERCONNECTED ALARMS WHOLE HOUSE FAN - 100 CFM MIN, YTO

110Y, COMBINATION SMOKE DETECTOR 4 CARBON MONOXIDE DETECTOR

THE HE 2505 N 135th DR	4
U)	

DATE

4-27-2021

PROJECT NO.

SHEET NO.

A6.3

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LEGEND

⊕ 50 CFM MIN, FAN (V.T.O.)

LOFT

ELECTRICAL	SYMBOL
v direct connection	φ
tlet 110 gfi wp	HO∰ Hm
cessed can	( )
ecessed directional	•
face mount	<b>+</b>
II Mount Flood	QP
ll mount	<del>-</del>
	<b>⊕</b>
tlet	Ф
Dv Direct Wire	<b>\bar{\bar{\bar{\bar{\bar{\bar{\bar{</b>
tlet gfi	∯GFI
oke detector	•
it receptacle	•
tch	\$
tch 3 way	\$3

DATE 4-27-2021

PROJECT NO.

A6.4

1¼" TO 2" WIDE X-STRONG STEEL RING

TYPICAL PIN PILE SPLICING DETAIL

w/ ¼" CONTINUOUS ALL AROUND FILLET WELD TO PIPE SLEEVE

# GENERAL STRUCTURAL SHORING NOTES

REFERENCE DOCUMENTS:
GEOTECHNICAL ENGINEERING STUDY GEO GROUP NORTHWEST, INC. REPORT #G-3837 DATED: FEB. 14, 2016

<u>DESIGN LOADS:</u>
THE SOIL PRESSURES INDICATED ON THE SOILS PRESSURE DIAGRAM DETAIL 3/P1.0 WERE USED FOR DESIGN.

CONTINUOUS OBSERVATIONS BY THE GEOTECHNICAL ENGINEER SHALL BE CONDUCTED FOR ALL PHASES OF PILE INSTALLATION. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF PILE. SEE GEOTECHNICAL ENGINEERING STUDY FOR COMPLETE INFORMATION INCLUDING; RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING AND DRAINING.

CONCRETE:
CONCRETE SHALL CONFORM TO ALL REQUIREMENT OF OF CHAPTER 19 OF THE IBC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS. UNLESS APPROVED OTHERWISE. REQUIRED ULTIMATE COMPRESSIVE STRENGTHS OF STRUCTURAL GROUT SHALL BE REACHED BY 28 DAYS FOR PILES:

	f'c (psi)	MIN. SACKS OF CEMENT PER YARD OF CONCRETE	MAX. WATER PER 94lb SACK CEMENT	USE	
3000		1½ SACKS		PILE LEAN CONCRETE	
		6SACKS	6 GALLONS	PILE STRUCTURAL GROUT	

**STRUCTURAL TIMBERS:** ALL GRADES SHALL CONFORM TO WCLIB GRADING RULES FOR "WEST COAST

LUMBER", LATEST EDITION. ALL PERMANENT TIMBER LAGGING SHALL BE PRESSURE TREATED WITH WATERBORNE PRESERVATIVES IN ACCORDANCE WITH AWPB LP-22 TO A MINIMUM RETENTION OF 0.4. ALL STRUCTURAL LUMBER SHALL BE AS NOTED BELOW:

HEM-FIR#2.....  $F_b = 680PSI$ 

STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS (14th EDITION). STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM DESIGNATION A992, 50KSI UNLESS NOTED OTHERWISE. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE LAWS. ALL WELDING SHALL BE BY CERTIFIED WELDERS (W.A.B.O. OR EQUAL) USING E60 OR E70 ELECTRODES. SHOP DRAWINGS OF ALL STRUCTURAL STEEL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ALL STEEL MEMBERS SHALL BE GIVEN ONE SHOP COAT OF APPROVED PRIMER. SURFACES TO BE EMBEDDED IN CONCRETE, FIREPROOFED OR FIELD WELDED SHALL NOT BE PRIMED. ALL BOLTS SHALL BE A325 UNLESS NOTED OTHERWISE. ALL ANCHOR BOLTS SHALL BE BE ASTM A307

STATEMENT OF SPECIAL INSPECTION REQUIREMENTS:
SPECIAL INSPECTIONS PER IBC CHAPTER 1704 SHALL BE PREFORMED ON THE FOLLOWING BUILDING COMPONENTS. INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED INSPECTION AGENCY APPROVED BY THE BUILDING DEPARTMENT AND RETAINED BY THE OWNER/CONTRACTOR:

1. ALL STRUCTURAL STEEL SHALL BE PERIODICALLY INSPECTED TO VERIFY MEMBER SIZE, GRADE, AND INSTALLATION PER PLAN, ANY ON SITE WELDING SHALL BE INSPECTED BY AN AWS D1.1 QUALIFED INSPECTOR. CONTINUOUS INSPECTION IS NOT REQUIRED IF THE PROCEDURES AND QUALIFICATIONS OF THE WELDERS ARE VERIFIED PRIOR TO THE START OF THE WORK. TESTING AGENCY AND CREDENTIALS TO BE PROVIDED FOR APPROVAL UPON CONTRACT

2. AUGERCAST PILE PLACEMENT

HOLE DIGGING:
PILE HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES. THIS MAY INVOLVE CASING HOLES OR OTHER METHODS OF OF PROTECTION FROM CAVING. REFER TO TO GEOTECHNICAL ENGINEERING STUDY FOR RECOMMENDED HOLE DIGGING PROCEDURE.

STEEL PLACEMENT TOLERANCES:

1" INSIDE PERPENDICULAR TO SHORING WALL 1" OUTSIDE PERPENDICULAR TO SHORING WALL 3" LATERALLY

LAGGING:
TIMBER LAGGING SHALL BE INSTALLED IN ALL AREAS UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER IN THE FIELD. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED WITH EITHER PEA GRAVEL OR SLURRY PER GEOTECHNICAL ENGINEER. DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS THE CONTRACTOR RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF OF SOIL. MAXIMUM HEIGHT OF 4 FEET IS RECOMMENDED. SPECIAL CARE SHOULD BE TAKEN TO AVOID GROUND LOSS DURING EXCAVATION.

SHORING MONITORING:
CONTINUOUS OBSERVATIONS BY THE GEOTECHNICAL ENGINEER SHALL BE CONDUCTED FOR ALL PHASES OF THE SHORING PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. REFER TO GEOTECHNICAL ENGINEERING STUDY FOR COMPLETE INFORMATION INCLUDING; RECOMMENDATIONS.

# GENERAL STRUCTURAL PIN PILE NOTES

REFERENCE DOCUMENTS:
GEOTECHNICAL ENGINEERING STUDY GEO GROUP NORTHWEST, INC. REPORT #G-3837 DATED: MAR. 15, 2015

1. ALL PIN PILES SHALL CONSIST OF 4"Ø GALVANIZED SCHEDULE 40 ASTM A-53 GRADE "A" PIPE, AND DRIVEN SECTIONS AND CONNECTED WITH COMPRESSION FITTED SLEEVE COUPLERS AND PILE CAPS AS INDICATED IN DETAIL 5/P1.0 & 6/P1.0

- 2. PILES SHALL BE DRIVEN WITH A TELEDYNE TB325 PNEUMATIC HAMMER (OR EQUIVALENT) TO A REFUSAL PENETRATION RATE OF 16SEC/INCH SUSTAINED THROUGH AT LEAST 3 MINUTES OF CONTINUOUS DRIVING. BATTERD PILES SHALL BE DRIVEN AT A RATIO OF 2 HORIZ: 10 VERT. PILE CAPACITY 8
- TONS FOR VERTICAL PILES, AND 7.8 TONS FOR BATTERED PILES.

  3. CONTRACTOR SHALL SUPPLY THE GEOTECHNICAL ENGINEER WITH ALL EQUIPMENT AND HAMMER ENERGY INFORMATION TO BE USED ON THE PROJECT, PRIOR TO ARRIVING ON SITE.
- 4. FILED LOAD TESTING PER ASTM STANDARD D 1143-81, SHALL BE CONDUCTED ON AT LEAST (1) PILE, OR A MINIMUM OF 3% OF THE PILES, UP TO A MAXIMUM OF (5).

PIN PILE MONITORING: CONTINUOUS OBSERVATIONS BY THE GEOTECHNICAL ENGINEER SHALL BE CONDUCTED FOR ALL PHASES OF PIN PILE INSTALLATION. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF PILE. REFER TO GEOTECHNICAL ENGINEERING STUDY FOR COMPLETE INFORMATION INCLUDING; RECOMMENDATIONS.

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SHORING/PIN PILE DETAILS

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ring



Way \ 98084 MI Treehouse, LLC 5637 East Mercer V Mercer Island, WA

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SHORING/PIN PILE PLAN

### STRUCTURAL NOTES

DESIGN IS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.) AS AMENDED BY THE LOCAL BUILDING DEPARTMENT.

40 PSF

LIVE LOADS: FLOOR..

BASIC WIND SPEED.110 MPH (ASCE 7-10 Ch. 26-27) EXPOSURE CATEGORY, D

(DIRECTIONAL PROCEDURE)  $K_{zt} = 1.00$  $.S_S = 1.336$ (ASCE 7-10 Ch. 12.14)  $S_{DS} = 0.891$ 

(SIMPLIFIED METHOD) SEISMIC DESIGN CATEGORY, D SITE CLASS, D SITE COEFFICIENT,  $F_a = 1.0$ 

BEAR ALL FOUNDATION ON 4" PIN PILES PER GEO GROUP NORTHWEST, INC. REPORT #G-3837 DATED: FEB. 14, 2016. ALL EXTERIOR FOOTINGS SHALL EXTEND A MINIMUM OF 1'-6" BELOW ADJACENT EXTERIOR FINISHED GRADE.

### CAST-IN-PLACE-CONCRETE:

 $F'_{c}$  = 3000 PSI @ 28 DAYS. MINIMUM 5½ SACKS OF CEMENT PER CUBIC YARD OF CONCRETE AND A MAXIMUM OF 63/4 GALLONS OF WATER PER 94# SACK OF CEMENT. IN ADDITION, TO BASEMENT WALLS, AND FOUNDATION WALLS, ALL EXTERIOR CONCRETE EXPOSED TO WEATHER AND GARAGE SLABS SHALL BE AIR ENTRAINED WITH AN AIR-ENTRAINING AGENT TO 5%-7% BY VOLUME OF CONCRETE. MAXIMUM SIZED AGGREGATE SHALL BE 1". MAXIMUM SLUMP IS 5" OR LESS. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ALL REINFORCED STEEL DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO POURING CONCRETE. ANCHOR BOLTS FOR SILL PLATES TO FOUNDATION WALLS SHALL BE A MINIMUM OF 58" WITH A MINIMUM OF 7" EMBEDMENT INTO CONCRETE AND A MAXIMUM SPACING OF 48" O.C. MINIMUM OF 2 BOLTS PER SILL PLATE. ONE BOLT TO BE PLACED WITHIN 12" OF EACH END OF THE SILL PLATE.

ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY CRSI. DEFORMED REINFORCING STEEL BARS SHALL CONFORM TO ASTM GRADE 60. ALL REINFORCING BAR BENDS SHALL BE MADE COLD, WITH A MINIMUM RADIUS OF 6 BAR DIAMETERS. CORNER BARS (2'-0" BEND) SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCEMENT. LAP ALL BARS A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE ON THE DRAWINGS REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST EARTH... CONCRETE EXPOSED TO EARTH OR WEATHER #6 THRU #18 BARS... #5 BAR AND SMALLER. CONCRÉTE NOT EXPOSED TO EARTH OR WEATHER #11 BAR AND SMALLER.. SLAB ÖN GRADE (FROM THE SURFACE)..

WWF SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED ONE CROSSWIRE PLUS 2" (i.e. 8" FOR 6X6 MESH). WWF SHALL BE CHAIRED IN POSITION WITH A MAXIMUM CHAIR SPACING OF 4'

STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS (14th EDITION). STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM DESIGNATION A992 UNLESS NOTED OTHERWISE. SQUARE AND RECTANGULAR STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM DESIGNATION A500, GRADE B. STEEL PIPE SHALL CONFORM TO ASTM DESIGNATION A53, TYPE E OR S, GRADE B ( $F_{Y}$ = 46,000 PSI). ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS AT MEMBERS AND CONNECTIONS OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL BE MADE WITH A FILLER MATERIAL PRODUCING WELDS WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT-0 DEGREES F, AS DETERMINED BY THE APPLICABLE AWS AS CLASSIFICATION TEST METHOD. ALL COMPLETE JOINT PENETRATION GROOVE WELDS AT DEMAND CRITICAL WELDS SHALL BE MADE WITH A FILLER MATERIAL PRODUCING WELDS WITH A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT-0 DEGREES F, AS DETERMINED BY THE APPLICABLE AWS A5 CLASSIFICATION TEST METHOD, AND 40 FT-LBS AT-70 DEGREES F. AS DETERMINED BY SECTION A3.4A. FILLER METAL PRODUCING WELDS ARE REQUIRED TO MEET THE MINIMUM REQUIREMENTS FOR CHARPY V-NOTCH TOUGHNESS AS SPECIFIED IN THE WELDING PROCEDURE SPECIFICATIONS. ATTACHMENTS ARE NOT PERMITTED WITHIN THE PROTECTED ZONE AND DISCONTINUITIES SHALL BE REPAIRED IN ACCORDANCE WITH SECTION D1.3 OF AISC 41-10. ALL STEEL MEMBERS SHALL BE GIVEN ONE SHOP COAT OF APPROVED PRIMER. SURFACES TO BE EMBEDDED IN CONCRETE, FIREPROOFED OR FIELD WELDED SHALL NOT BE PRIMED. ALL BOLTS SHALL BE A325 UNLESS NOTED OTHERWISE. ALL ANCHOR BOLTS SHALL BE BE ASTM A307.

SPECIAL INSPECTIONS PER IBC CHAPTERS 1704, AND 1705 SHALL BE PREFORMED ON THE FOLLOWING BUILDING COMPONENTS: 1. PERIODIC GEOTECNICAL INSPECTIONS FOR VERIFICATION AND COMPLIANCE TO SOILS REPORT ON SITE EXCAVATION AND GRADING, OVER EXCAVATION AND PLACEMENT OF STRUCTURAL FILL, CONSTRUCTION DEWATERING, PER PAGE 3 OF THE GEOTECHNICAL REPORT, PLACEMENT OF STRUCTURAL FILL AND SOIL COMPACTION, AND VERIFICATION OF SOIL-BEARING CAPACITY. 2. CONTINUOUS INSPECTION FOR INSTALLATION OF CONCRETE EXPANSION, ADHESIVE, AND SCREW ANCHORS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

5. PERIODIC INSPECTION ON FABRICATION, WELDING, HIGH STRENGTH BOLTNG, AND INSTALLATION OF STRUCTURAL STEEL OTHER THAN PREFABRICATED\*\* STRUCTURAL STEEL MEMBERS TO VERIFY MEMBER SIZE, GRADE, WELDS, AND INSTALLATION PER PLAN. '. CONTINUOUS INSPECTION ON WELDING OF STRUCTURAL STEEL MEMBERS FOR OTHER THAN SINGLE-PASS FILLET WELDS (MAXIMUM 5/16-INCH).

\*\* SPECIAL INSPECTION IS REQUIRED ON THE PREMISES FOR THE FABRICATION OF ALL PREFABRICATED STEEL ELEMENTS, INCLUDING BUT NOT LIMITED, TO STEEL STAIRS, AND STEEL MOMENT FRAMES, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTION.

STRUCTURAL TESTING:
STRUCTURAL TESTING BY QUALIFIED TESTING FACILITIES SHALL BE CONDUCTED ON THE FOLLOWING BUILDING COMPONENTS: 1. NON DESTRUCTIVE TESTING OF THE COMPLETE JOINT PENETRATION AND PARTIAL JOINT PENETRATION GROOVE-WELDED JOINTS ON THE STEEL ENTRY STAIRS.

SHOP DRAWINGS, REPORTS, CERTIFICATES AND OTHER DOCUMENTS RELATING TO SPECIAL STRUCTURAL ELEMENTS, INSPECTIONS, AND TESTS SHOULD BE SUBMITTED TO THE CONTRACTOR, THE CITY OF BELLEVUE, AND THE ENGINEER OF RECORD. THE CERTIFICATES OF COMPLIANCE ARE REQUIRED TO STATE THAT THE WORK WAS PREFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. CERTIFICATES SHALL BE SUBMITTED ON THE FOLLOWING BUILDING COMPONENTS: 1. SHOP DRAWINGS FOR PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES, AND TJI ROOF FRAMING. 2. CERTIFICATES OF COMPLIANCE FROM STEEL FABRICATORS ON ALL PREFABRICATED

STEEL MEMBERS AT THE COMPLETION OF FABRICATION. INCLUDING BUT NOT LIMITED TO, BEAMS AND COLUMNS, PREFABRICATED STAIR SYSTEMS,

3. SUBMITTAL OF ALL WELDING PROCEDURE SPECIFICATIONS VERIFYING THAT ALL WELDS WERE MADE PER APPROVED CONSTRUCTION DOCUMENTS. INCLUDING BUT NOT LIMITED

TO, ALL BEAMS, AND COLUMNS, MEMBERS AND CONNECTIONS. 4. WABO CERTIFICATE INDICATING STEEL FABRICATION SHOP IS QUALIFIED TO WELD

ASTM A653, CLASS G-185) OR EQUAL.

PRESSURE TREATED WOOD:
ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, EARTH, OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED WOOD IN ACCORDANCE WITH AWPA U1 AND M4 STANDARDS.

### ALL MISCELLANEOUS HANGERS AND HARDWARE TO BE SIMPSON OR APPROVED EQUAL. ALL HANGERS SHALL BE FASTENED TO WOOD WITH PROPER NAILS AND ALL NAIL HOLES FILLED. ALL NAILS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE BE HOT DIPPED GALVANIZED PER ASTM STANDARD 153 AND I.B.C. SECTION 2304.9.5. ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE ZMAX (HDG PER

### FLOOR SHEATHING:

FLOOR SHEATHING SHALL BE 11/8" TONGUE AND GROOVE, A.P.A. RATED SHEATHING WITH A SPAN RATING OF 48/36, WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. UNLESS NOTED OTHERWISE, NAIL WITH 10d COMMON NAILS @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

### **ROOF SHEATHING:**

ROOF SHEATHING SHALL BE 34" A.P.A. RATED PLYWOOD OR 34" OSB A.P.A. RATED SHEATHING WITH A SPAN RATING OF 32/16, WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. UNLESS NOTED OTHERWISE, NAIL WITH 8d COMMON NAILS @ 6" O.C. AT SUPPORTED PANEL EDGES, AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

WALL SHEATHING SHALL BE  $\frac{1}{3}$ " A.P.A. RATED PLYWOOD OR  $\frac{1}{16}$ " OSB A.P.A. RATED SHEATHING WITH A SPAN RATING OF 24/0. PANEL END JOINTS SHALL OCCUR AT SUPPORTS. NAIL ALL PANEL EDGES WITH 8d COMMON NAILS @ 6" O.C. AT SUPPORTED PANEL EDGES AND @ 12" O.C. AT INTERMEDIATE SUPPORTS.

FLOOR FRAMING:
FLOOR JOIST TO BE AS SPECIFIED ON PLANS. PROVIDE FULL DEPTH BLOCKING FOR JOIST AT THE SUPPORTS. FLUSH BEAMS (FB) AND HEADERS NOT CALLED OUT ON THE PLANS SHALL BE (2) 2x8 DOUG-FIR #2. ALL LAMINATED BEAMS SHALL BE SPIKED TOGETHER WITH 16d NAILS @ 6" O.C. STAGGERED

ALL DOOR AND WINDOW HEADERS NOT CALLED OUT ON THE PLANS SHALL BE 4x8 DOUGLAS-FIR #2 WITH (1) CRIPPLE STUD AND (1) KING STUD ON EACH END FOR OPENINGS 5' AND LESS AND (2) CRIPPLE STUDS AND (1) KING STUD ON EACH END FOR OPENINGS GREATER THAN 5'. ALL COLUMNS NOT CALLED OUT ON THE PLANS SHALL BE A MINIMUM OF TWO LAMINATED STUDS. NAIL LAMINATED COLUMNS TOGETHER WITH (2) 16d NAILS @ 12" O.C. WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATES AND BOTTOM PLATES TO EACH STUD WITH MINIMUM (2) 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d NAILS AT 16" O.C. STAGGERED. LAP AND FACE NAIL NAIL TOP PLATES WITH (3) 16d NAILS @ EACH CORNER AND INTERSECTION. STAGGER TOP PLATE SPLICES A MINIMUM OF 48" AND NAIL w/(4) 16d NAILS EACH SIDE OF SPLICE. FACE NAIL BOTTOM PLATE WITH (2) 16d NAILS AT 16" O.C. OR PER SHEARWALL SCHEDULE. PROVIDE (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER AT CONTACT SURFACES BETWÈEN ALL WOOD AND

PRE-MANUFACTURED FLOOR JOIST:
JOIST SHALL BE MANUFACTURED IN A PLANT APPROVED FOR FABRICATION BY THE BUILDING DEPARTMENT AND UNDER THE SUPERVISION OF AN APPROVED THIRD PARTY INSPECTION AGENCY. EACH JOIST SHALL BE IDENTIFIED BY A STAMP INDICATING THE JOIST TYPE, C.A.B.O. NER REPORT NUMBER, MANUFACTURERS NAME, PLANT NUMBER, AND THE INDEPENDENT INSPECTION AGENCY LOGO AND EVALUATION REPORT NUMBER. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON SITE AT TIME OF INSPECTION FOR INSPECTORS'S USE AND REFERENCE.

PRE-MANUFACTURED FLOOR AND ROOF TRUSSES:
ALL TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE. THE DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. ALL TRUSS DESIGN DRAWINGS SHALL BE PREPARED, STAMPED, AND SIGNED BY A WASHINGTON STATE LICENSED STRUCTURAL ENGINEER. ALL TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE MANUFACTURER'S PROVIDED CONSTRUCTION DOCUMENTS FOR THE BUILDING. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS. TRUSSES SHALL BE BRACED IN ACCORDANCE WITH ACCEPTED INDUSTRY PRACTICES, SUCH THE SBCA BUILDING COMPONENT SAFETY INFORMATION (BSCI) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL CONNECTED WOOD TRUSSES. TRUSS MEMBERS SHALL NOT BE BE CUT, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE PRIOR APPROVAL OF THE TRUSS MANUFACTURER'S DESIGN ENGINEER. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON SITE AT TIME OF INSPECTION FOR INSPECTORS'S USE AND REFERENCE.

### GLUED-LAMINATED TIMBERS

LAMINATED TIMBERS SHALL BE DOUGLAS-FIR/LARCH KILN DRIED STRESS GRADED COMBINATION 24F-V4 ( $F_h = 2400 \text{ PSI}$ ,  $F_v = 109 \text{ PSI}$ ) FOR SIMPLE SPANS AND 24F-V8 FOR CANTILEVER AND CONTINUOUS BEAMS. A.I.T.C. CÉRTIFICATE OF PERFORMANCE REQUIRED. COLUMNS SHALL CONFORM TO TO A.I.T.C. STANDARDS 117.

STRUCTURAL TIMBERS:
ALL GRADES SHALL CONFORM TO WWPA GRADING RULES FOR WESTERN LUMBER, LATEST AND BOLTS BEARING AGAINST WOOD. EDITION. PROVIDE CUT WASHERS UNDER ALL NUTS AND BOLTS BEARING AGAINST WOOD. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL STRUCTURAL LUMBER SHALL BE AS NOTED BELOW:

# FRAMING GRADES:

bul uB  $\widehat{\mathcal{P}}$ one 4 Q



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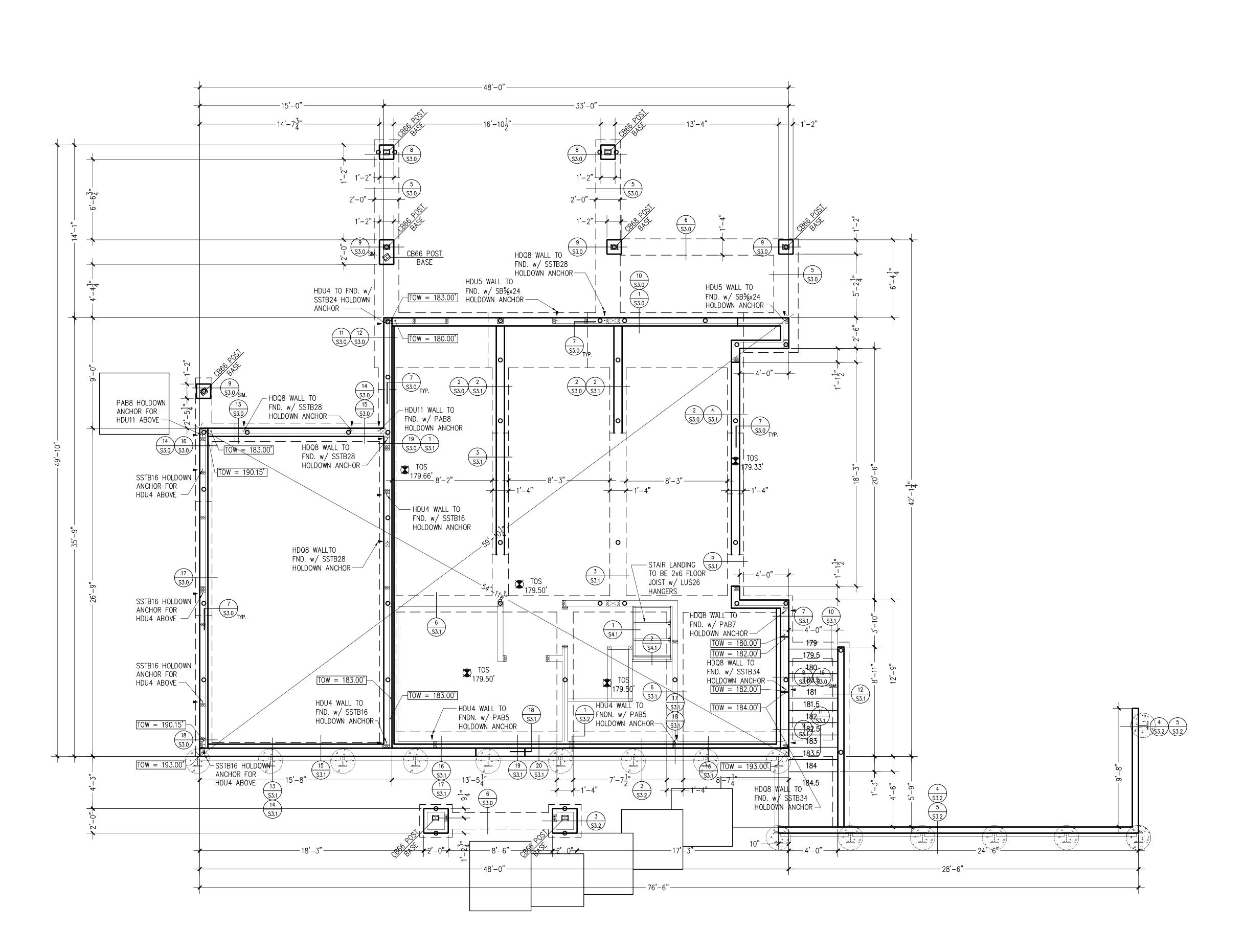
STRUCTURAL NOTES

Issued Date
Permit Plans 03/30/20

18-025

S2.0

FOUNDATION PLAN



# FOUNDATION PLAN

SCALE  $\frac{1}{4}$ " = 1'-0"

FOUNDATION PLAN NOTES

- 1. PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST PLEASE CONTACT STONEY POINT ENGINEERING OR OWNER/CONTRACTOR.
- 2. WRITTEN DIMENSIONS TAKE PRECEDENT OVER SCALED DIMENSIONS.
- 3. ALL FOOTINGS TO HAVE A MINIMUM DEPTH OF 18" BELOW FINISH GRADE.
- 4. ALL CONCRETE FOOTINGS TO BEAR ON 4" Ø PIN PILES OR WIDE-FLANGE SHORING PILES PER PLAN.
- 5. STEP FOUNDATION PER SITE CONDITIONS.
- 6. CONCRETE COMPRESSIVE STRENGTH F'C = 3,000 PSI, GRADE 60 REINFORCEMENT.
- 7. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, EARTH, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
- 8. VERIFY ALL DIMENSIONS AND FIELD CONDITIONS.
- 9. PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENINGS HAVE BEEN INSTALLED.
- 10. CONCRETE PROTECTION FOR REINFORCEMENT:

  a. 3" CAST AGAINST EARTH.
- b. 1 1/2" EXPOSED TO EARTH OR WEATHER.c. 3/4" NOT EXPOSED TO EARTH OR WEATHER.
- 11. METAL FRAMING CONNECTORS SPECIFIED ARE MANUFACTURED BY THE SIMPSON COMPANY. SEE LATEST CATALOG EDITION. INSTALL PER SPECS. USE ONLY EQUIVALENT SUBSTITUTIONS.
- 12. ALL METAL CONNECTORS SUPPORTED BY PRESSURE TREATED MATERIAL SHALL BE "ZMAX" (G185 HDG PER ASTM A653) OR EQUIVALENT AND FASTENERS SHALL BE PER ASTM A153.

# SHEARWALL NOTES

1. ALL EXTERIOR WALLS TO BE P1-6 U.N.O.

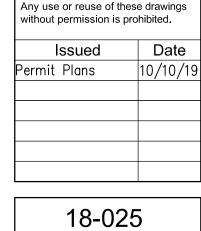
### P1-X

- DENOTES SHEARWALL MARK.

  MARK IS ON SIDE OF WALL TO BE SHEATHED

  U.N.O.
- 3. ■ DENOTES LOCATION OF TIE STRAP PER PLAN
- 4. · ■ DENOTES LOCATION HOLDOWN PER PLAN.
- 5. SEE SHEETS S3.0, S3.1, S3.2, S4.1, AND S4.3 FOR SHEARWALL SCHEDULE, NOTES AND TYP. DETAILS





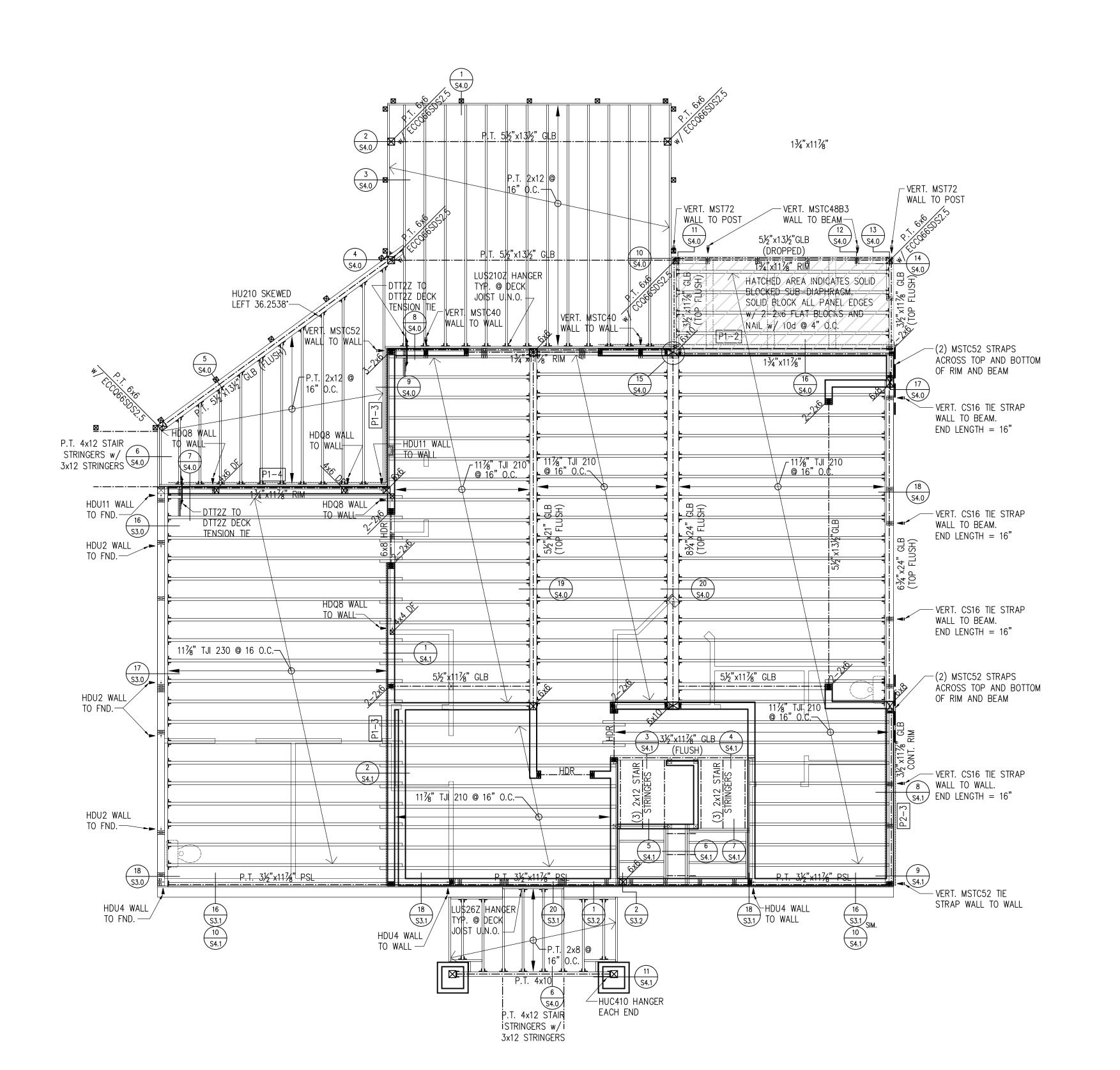
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# MAIN FLOOR FRAMING PLAN

SCALE  $\frac{1}{4}$ " = 1'-0"

MAIN FLOOR FRAMING PLAN NOTES 1. PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST PLEASE NOTIFY STONEY POINT ENGINEERING OR OWNER/CONTRACTOR.

- 2. ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 H.F. (STUD GRADE OR BETTER).
- 3. ALL FRAME NAILING TO COMPLY WITH TABLE 2304.10.1, 2015 I.B.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 8d AT 6" O.C. TYPICAL, U.N.O. ON SHEAR WALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- 4. ALL FLOOR BEAMS TO BE 4x8 D.F.#2 TYP. U.N.O.
- 5. ALL FLOOR JOIST TO BE 11%" TJI 230 @ 16" O.C. U.N.O. PROVIDE SOLID BLOCKING BELOW ALL POINT LOADS
- DENOTES MINIMUM REQUIRED NUMBER OF STUDS NEEDED FOR BEARING UNDER BEAMS AND BELOW WINDOW HEADERS. DOES NOT INCLUDE KING STUDS. MAY REPLACED w/ SOLID SAWN LUMBER OF SAME SECTION. TYPICAL, U.N.O.
- 7. ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON SHEET S1.0. INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.

SHEARWALL NOTES

1. ALL EXTERIOR WALLS TO BE P1-6 U.N.O.

DENOTES SHEARWALL MARK. MARK IS ON SIDE OF WALL TO BE SHEATHED U.N.O.

3. ■ DENOTES LOCATION OF TIE STRAP PER PLAN

5. SEE SHEETS S3.0, S3.1, S3.2, S4.0, S4.0, AND S4.3 FOR SHEARWALL SCHEDULE, NOTES AND TYP. DETAILS

LEGEND

DENOTES INTERIOR LOWER FLOOR BEARING WALLS

DENOTES LOWER FLOOR WALLS

----- DENOTES BEAMS, HEADERS

# FRAMING PLAN

SCALE  $\frac{1}{4}$ " = 1'-0"

UPPER FLOOR FRAMING PLAN NOTES 1. PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST PLEASE NOTIFY STONEY POINT ENGINEERING OR OWNER/CONTRACTOR.

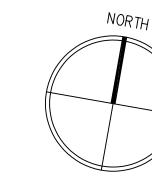
- 2. ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 H.F. (STUD GRADE OR BETTER).
- 3. ALL FRAME NAILING TO COMPLY WITH TABLE 2304.10.1, 2015 I.B.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 8d AT 6" O.C. TYPICAL, U.N.O. ON SHEAR WALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- 4. ALL FLOOR BEAMS TO BE 4x8 D.F.#2 TYP. U.N.O.
- 5. ALL FLOOR JOIST TO BE 11%" TJI 230 @ 16" O.C. U.N.O. ALL RIM TO BE 1½"x11½" TIMBERSTRAND U.N.O. PROVIDE SOLID BLOCKING BELOW ALL POINT LOADS ABOVE.
- DENOTES MINIMUM REQUIRED NUMBER OF STUDS NEEDED FOR BEARING UNDER BEAMS AND BELOW WINDOW HEADERS. DOES NOT INCLUDE KING STUDS. MAY REPLACED w/ SOLID SAWN LUMBER OF SAME SECTION. TYPICAL, U.N.O.
- 7. ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON SHEET S1.0 INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.

1. ALL EXTERIOR WALLS TO BE P1-6 U.N.O.

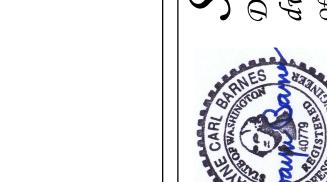
- DENOTES SHEARWALL MARK. MARK IS ON SIDE OF WALL TO BE SHEATHED

DENOTES INTERIOR MAIN FLOOR BEARING WALLS

----- DENOTES BEAMS, HEADERS



# UPPER FLOOR



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Point

Stoney

SHEARWALL NOTES

3. ■ DENOTES LOCATION OF TIE STRAP PER PLAN

5. SEE SHEETS S1.0, S4.1, S4.2, AND S4.3 FOR SHEARWALL SCHEDULE, NOTES AND TYP. DETAILS

<u>LEGEND</u>

DENOTES MAIN FLOOR WALLS

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**M** 56

Way 980

Mercer and, WA

Treehouse

Date Permit Plans 03/30/20

18-025

FRAMING PLAN

# ROOF FRAMING PLAN

SCALE  $\frac{1}{4}$ " = 1'-0"

### ROOF FRAMING NOTES

1. PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST PLEASE NOTIFY STONEY POINT ENGINEERING OR OWNER/CONTRACTOR.

- 2. ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 H.F. (STUD GRADE OR BETTER).
- 3. ALL FRAME NAILING TO COMPLY WITH TABLE 2304.10.1, 2015 I.B.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 8d AT 6" O.C. TYPICAL, U.N.O. ON SHEAR WALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- 4. ALL HDRS TO BE 4x8 D.F.#2 TYPICAL U.N.O.
- 5. ROOF FRAMING TO BE 2x12 DE#1 RAFTERS @ 24" O.C. TYPICAL
- 6. DENOTES MINIMUM REQUIRED NUMBER OF STUDS
  NEEDED FOR BEARING UNDER BEAMS AND BELOW WINDOW
  HEADERS. DOES NOT INCLUDE KING STUDS. MAY REPLACED
  W/ SOLID SAWN LUMBER OF SAME SECTION. TYPICAL U.N.O.
- 7. ROOF PITCH TO BE AS NOTED, U.N.O.
- 8. CONTRACTOR TO VERIFY LOCATION OF ALL ROOF SUPPORT BRACING AND POSTING AND PROVIDE ADEQUATE BEARING TO FOUNDATION.
- 9. ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED DESIGN STRESS VALUES INDICATED ON SHEET S1.0 INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.

# SHEARWALL NOTES

1. ALL EXTERIOR WALLS TO BE P1-6 U.N.O.

### P1-X

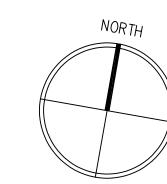
- 2. DENOTES SHEARWALL MARK.
  MARK IS ON SIDE OF WALL TO BE SHEATHED
  U.N.O.
- 3. ■ DENOTES LOCATION OF TIE STRAP PER PLAN
- 5. SEE SHEETS S1.0, AND S4.3 FOR SHEARWALL SCHEDULE, NOTES AND TYP. DETAILS

# <u>LEGEND</u>

DENOTES INTERIOR UPPER FLOOR
BEARING WALLS

DENOTES UPPER FLOOR WALLS

----- DENOTES BEAMS, HEADERS



# Stoney Point England office: 425-644-9500

Engineering

# MI Treehouse, LLC 5637 East Mercer Way Mercer Island, WA 98084

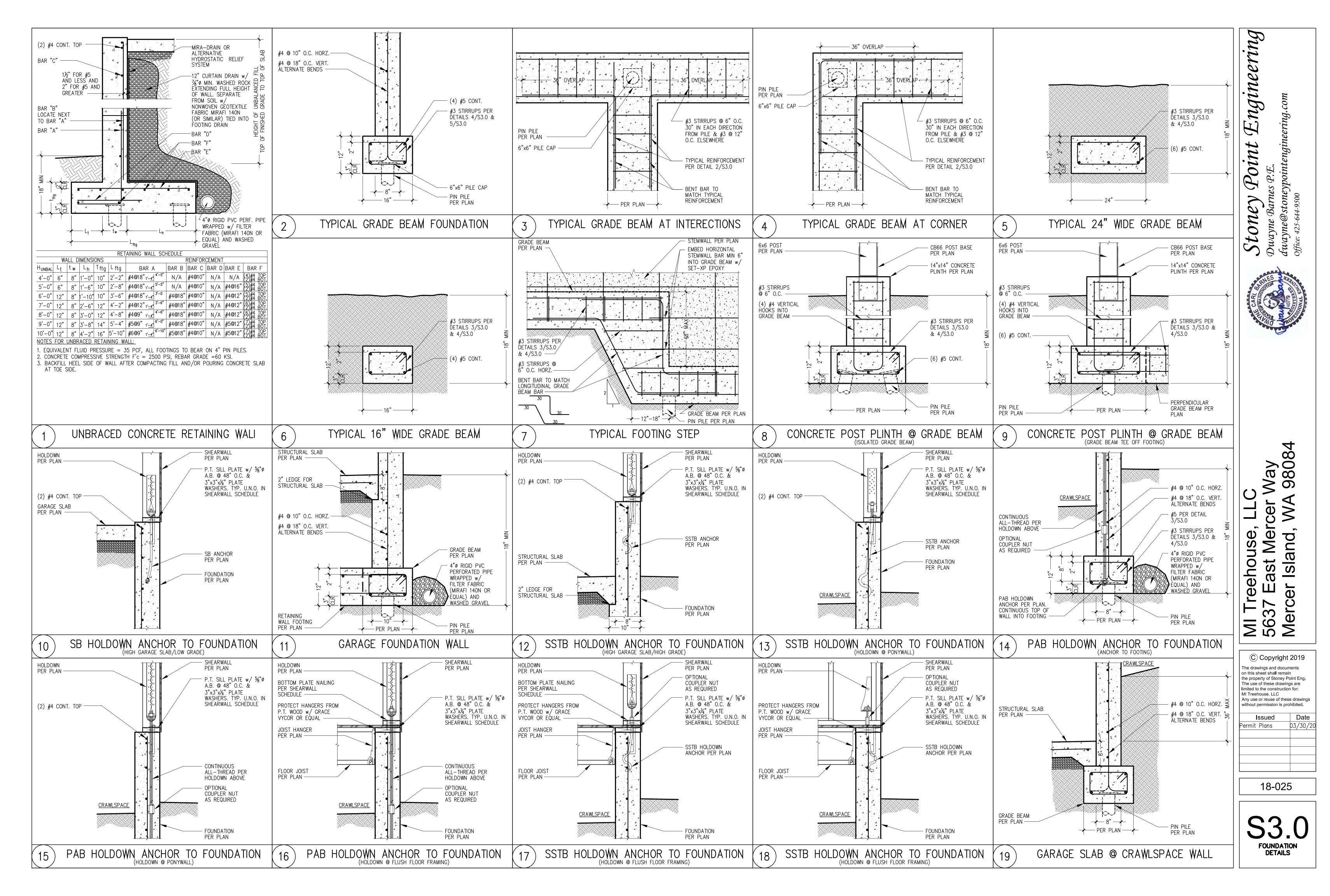
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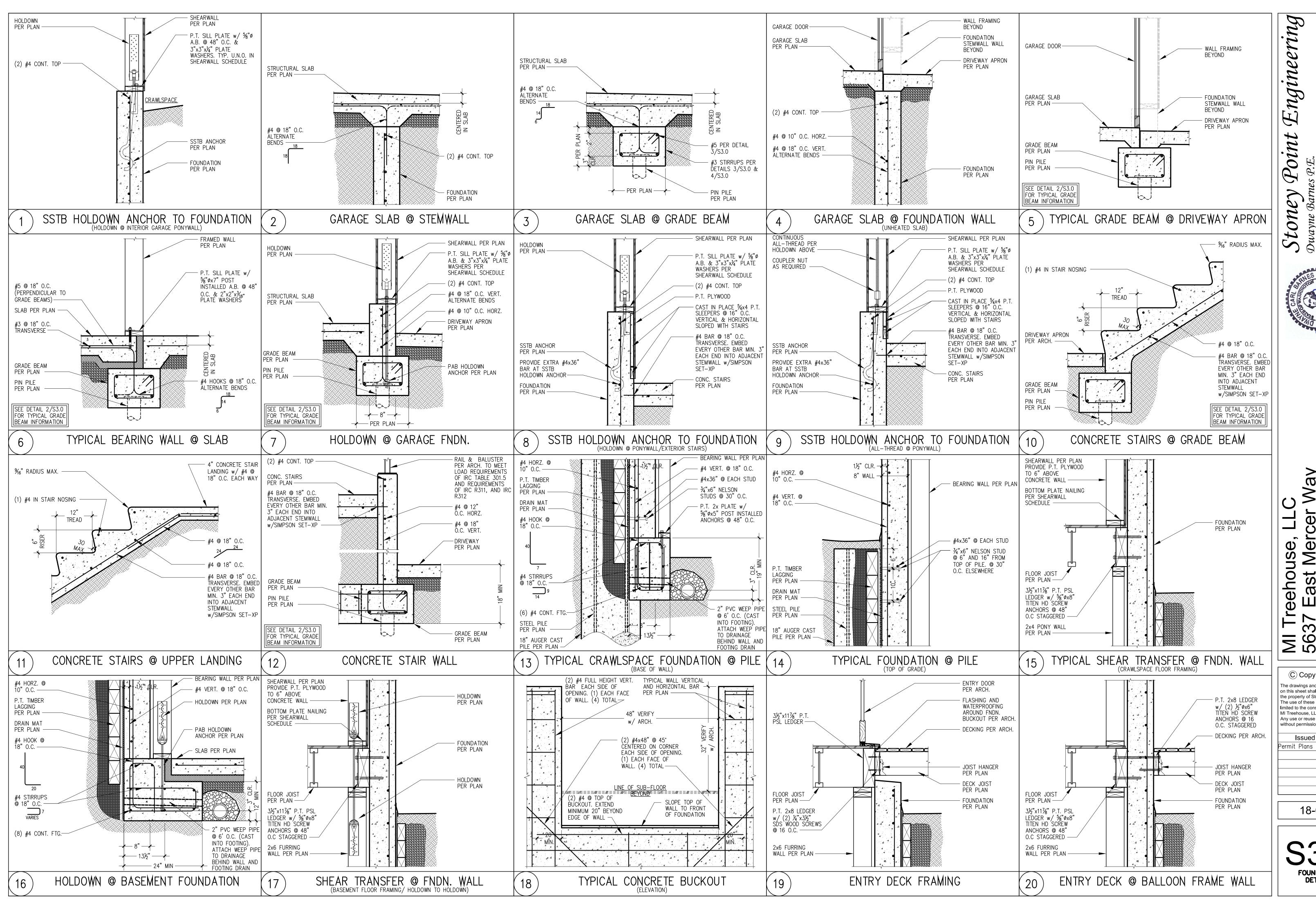
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ROOF FRAMING PLAN





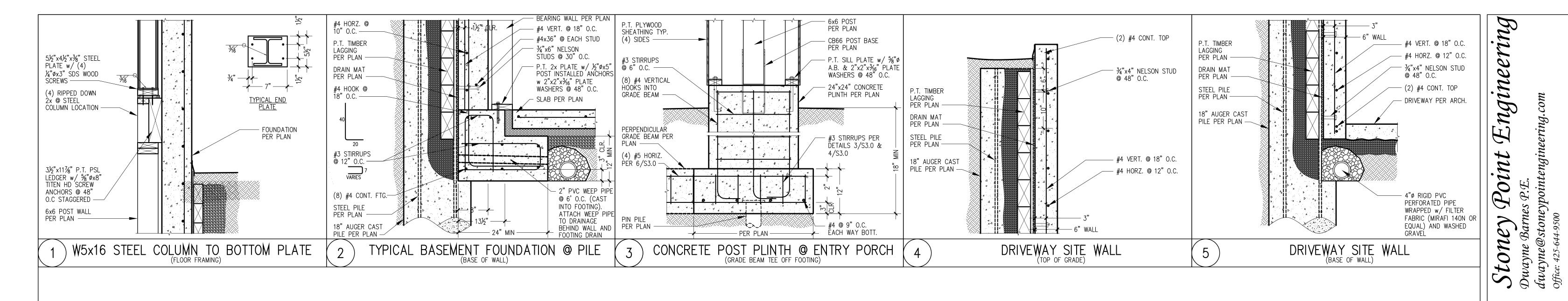
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**FOUNDATION** DETAILS



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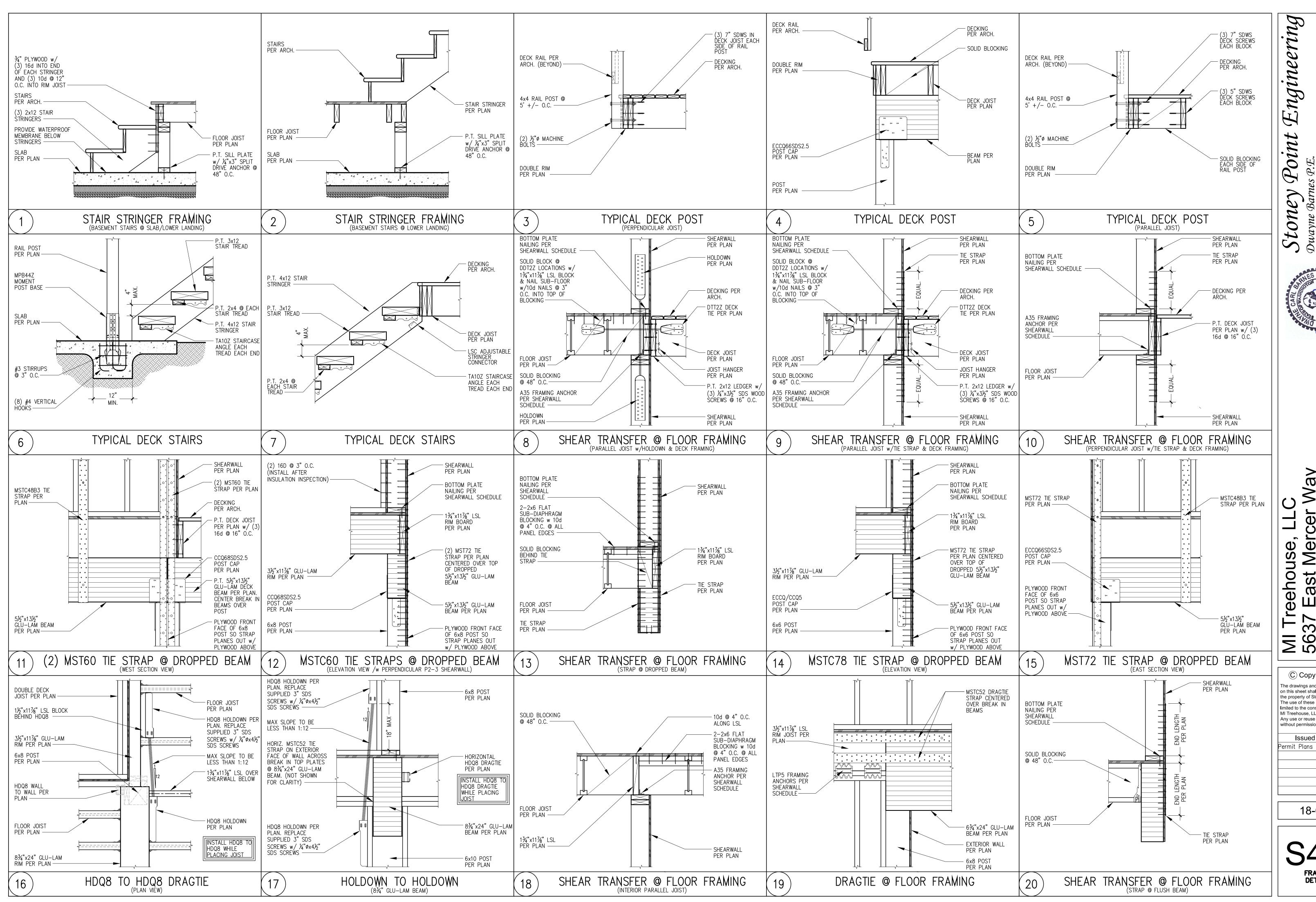
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S3.2

FOUNDATION DETAILS

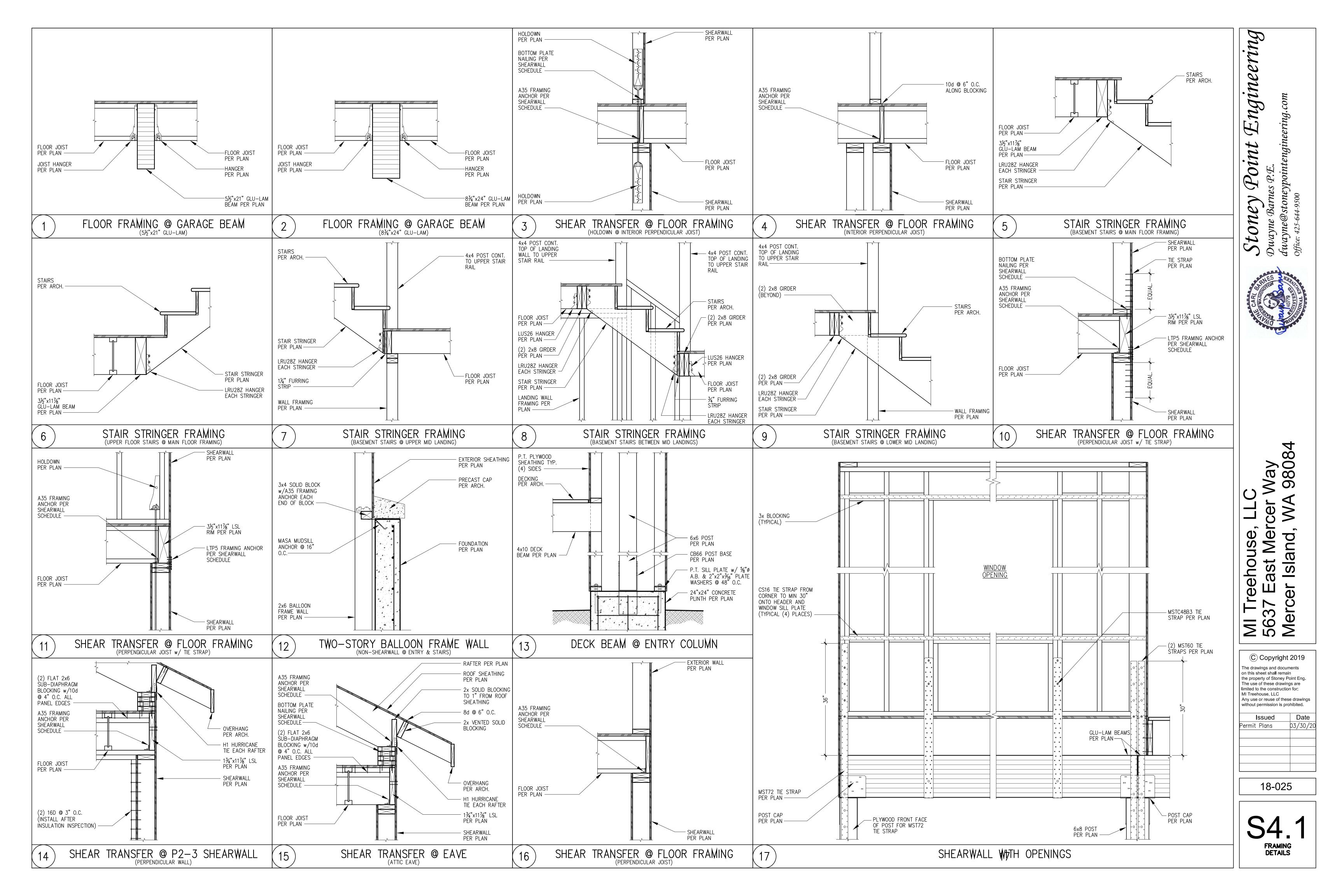


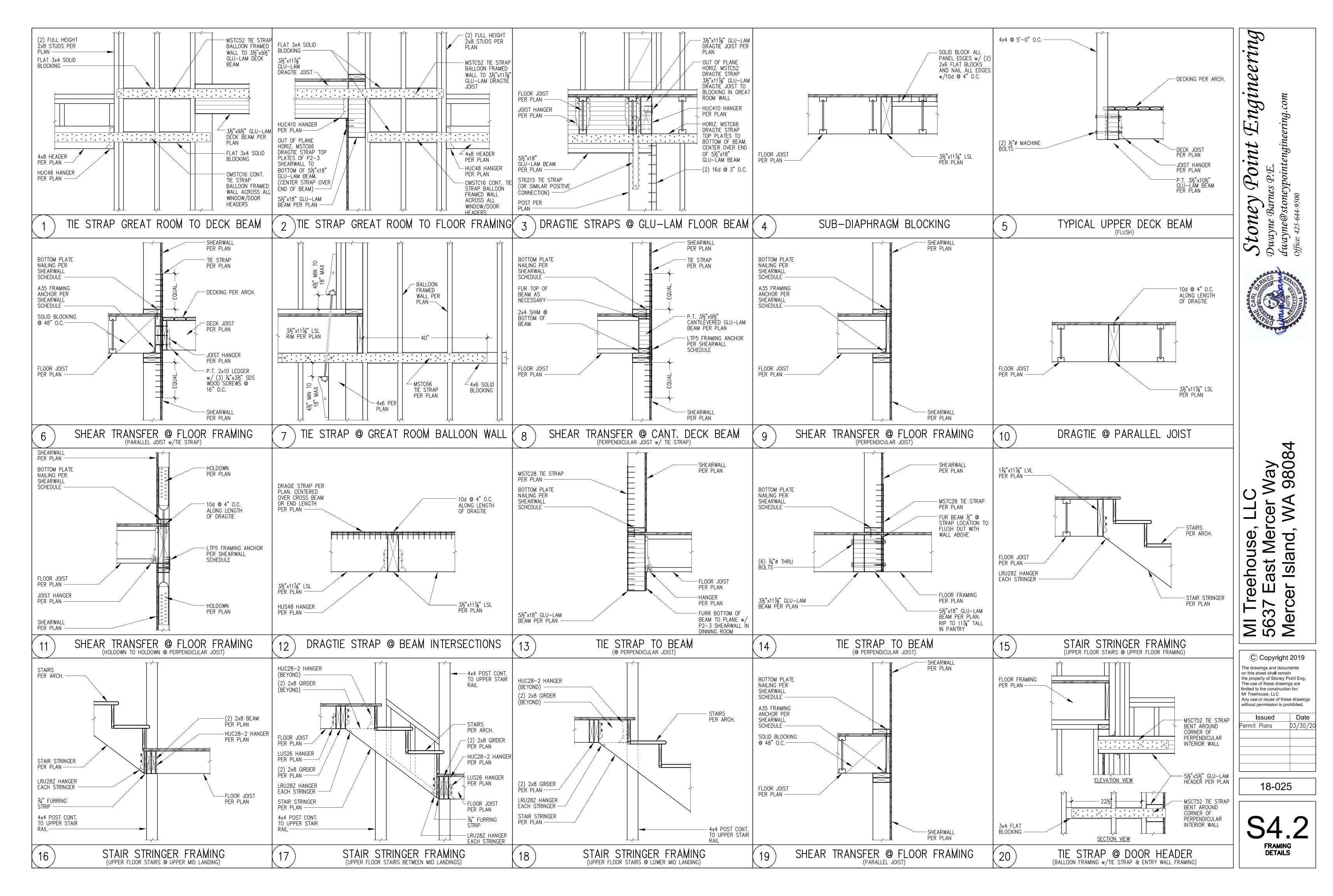
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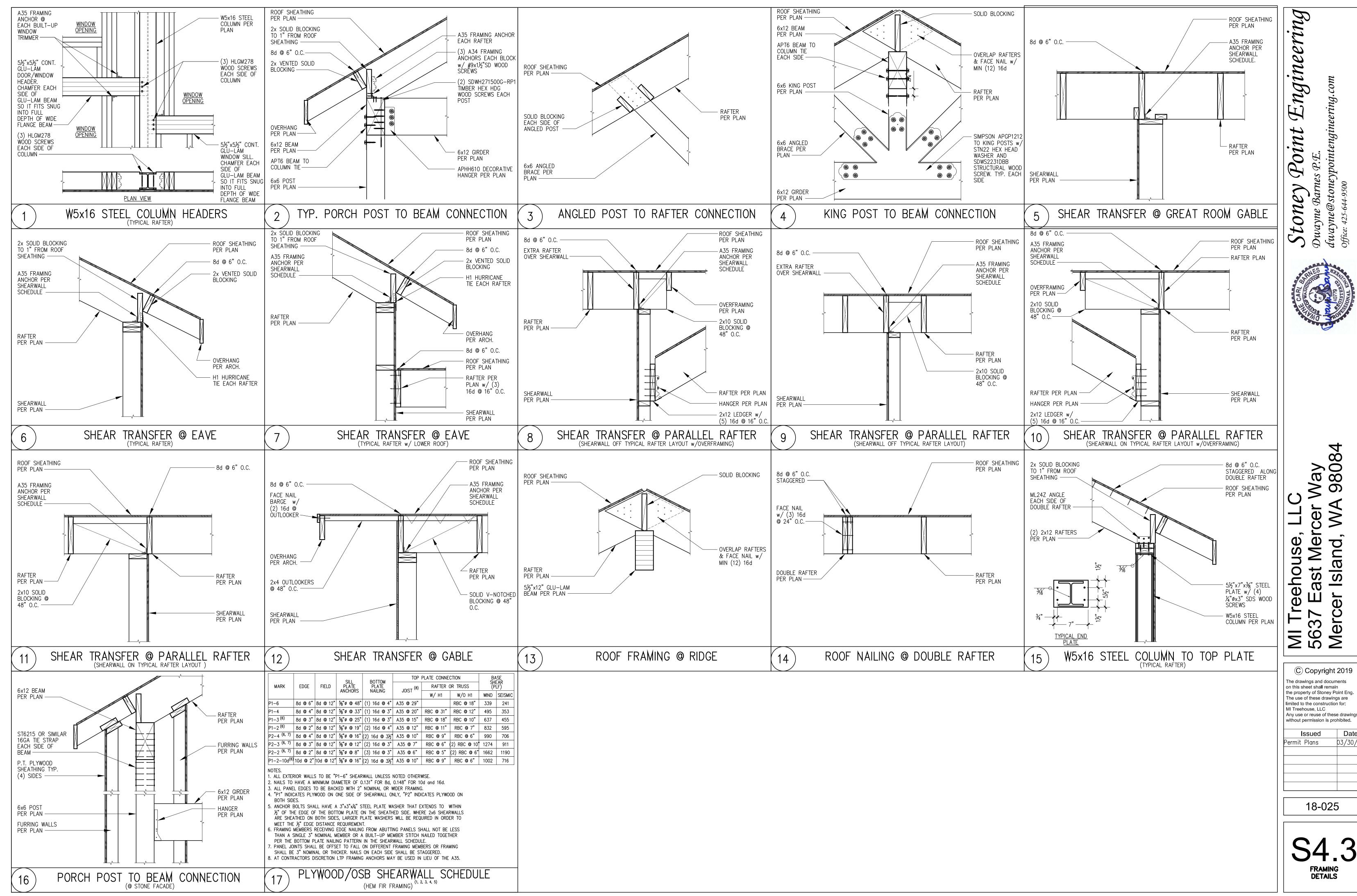
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18-025

FRAMING DETAILS







 $\infty$ 

Date

03/30/20

# 5637 MERCER WAY

# 5637 E MERCER WAY MERCER ISLAND, WASHINGTON

E MERCER WAY

# **OWNER:**

MI TREEHOUSE, LLC 11030 SE 30TH ST BELLEVUE, WA 98004

# **ENGINEER/SURVEY:**

CORE DESIGN INC 14711 NE 29TH PL, SUITE 101 BELLEVUE, WASHINGTON 98007 (425) 885-7877 CONTACT: MICHAEL A. MOODY, P.E. GLENN R. SPRAGUE, P.L.S.

# **VERTICAL DATUM**

# **BENCHMARKS**

CITY OF MERCER ISLAND POINT "CASC 38" ELEVATION=163.23

# SHEET INDEX

C1.01 C1.02 C2.01 C4.01 C4.31 SITE PLAN TOPOGRAPHIC PLAN

# SITE STATISTICS

SITE AREA: NET LOT AREA: LOTS PROPOSED: TAX PARCEL DWELLING UNITS: IMPERVIOUS AREA: R-15 (RESIDENTIAL-SINGLE FAMILY) ±37,554 SF (±0.862 ACRES) 35,823 SF (0.822 ACRES) 192405-9312

3,739 SF (9.9%)

24.5%

C1.01 18039

BASIS OF BEARINGS

NOO'01'20"W BETWEEN THE FOUND MONUMENTS ALONG THE CENTERLINE OF EAST MERCER WAY **REFERENCES** 

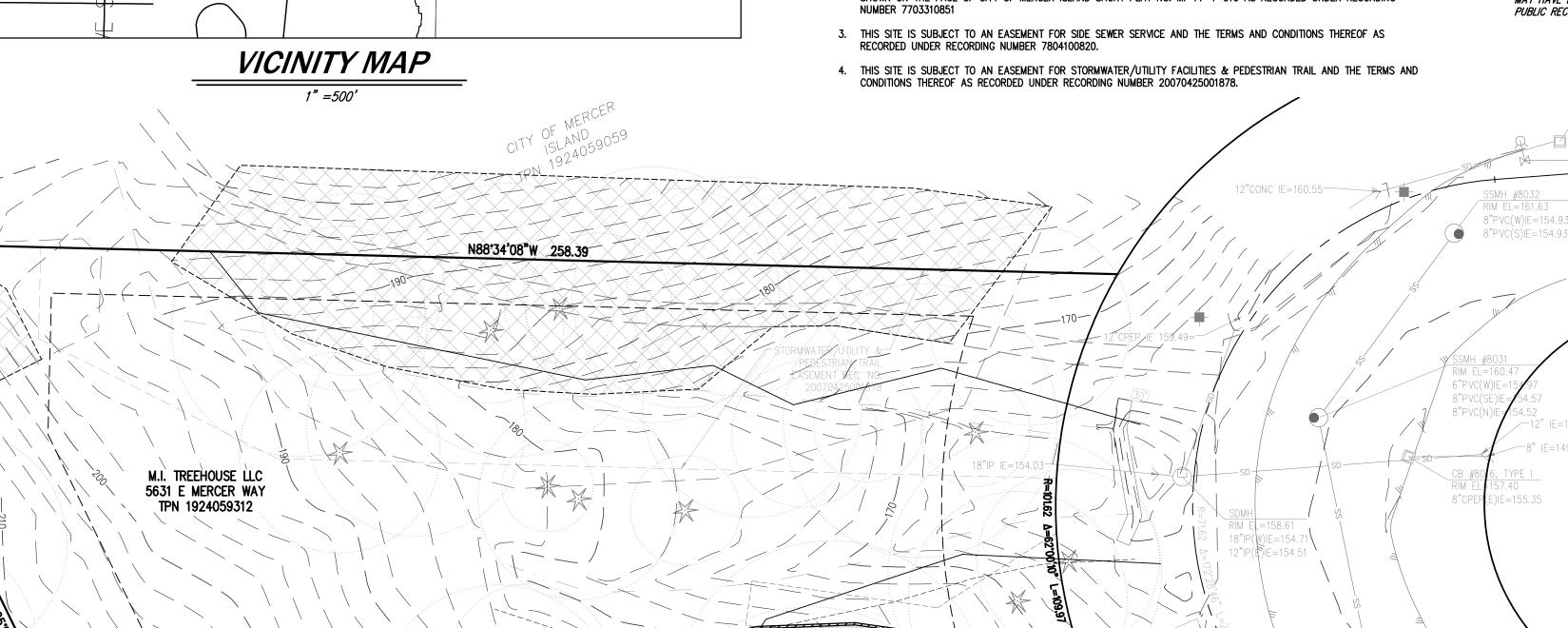
STATUTORY WARRANTY DEED RECORDED UNDER RECORDING NUMBER 20140929000870

# LEGAL DESCRIPTION

LOT A OF CITY OF MERCER ISLAND SHORT PLAT NO. MI-77-1-010, AS RECORDED MARCH 31, 1977 UNDER RECORDING NO.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

- 1. THIS SITE IS SUBJECT TO THE TERMS AND CONDITIONS CONTAINED IN DEED RECORDED UNDER RECORDING NUMBER 1579699.
- 2. THIS SITE IS SUBJECT TO THE CONDITIONS, COVENANTS, RESTRICTIONS, EASEMENTS, NOTES, AND SETBACKS, IF ANY, AS SHOWN ON THE FACE OF CITY OF MERCER ISLAND SHORT PLAT NO. MI-77-1-010 AS RECORDED UNDER RECORDING



BUILDING

**UTILITY CONFLICT NOTE:** 

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POTHOLING THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-555 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD

UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG!

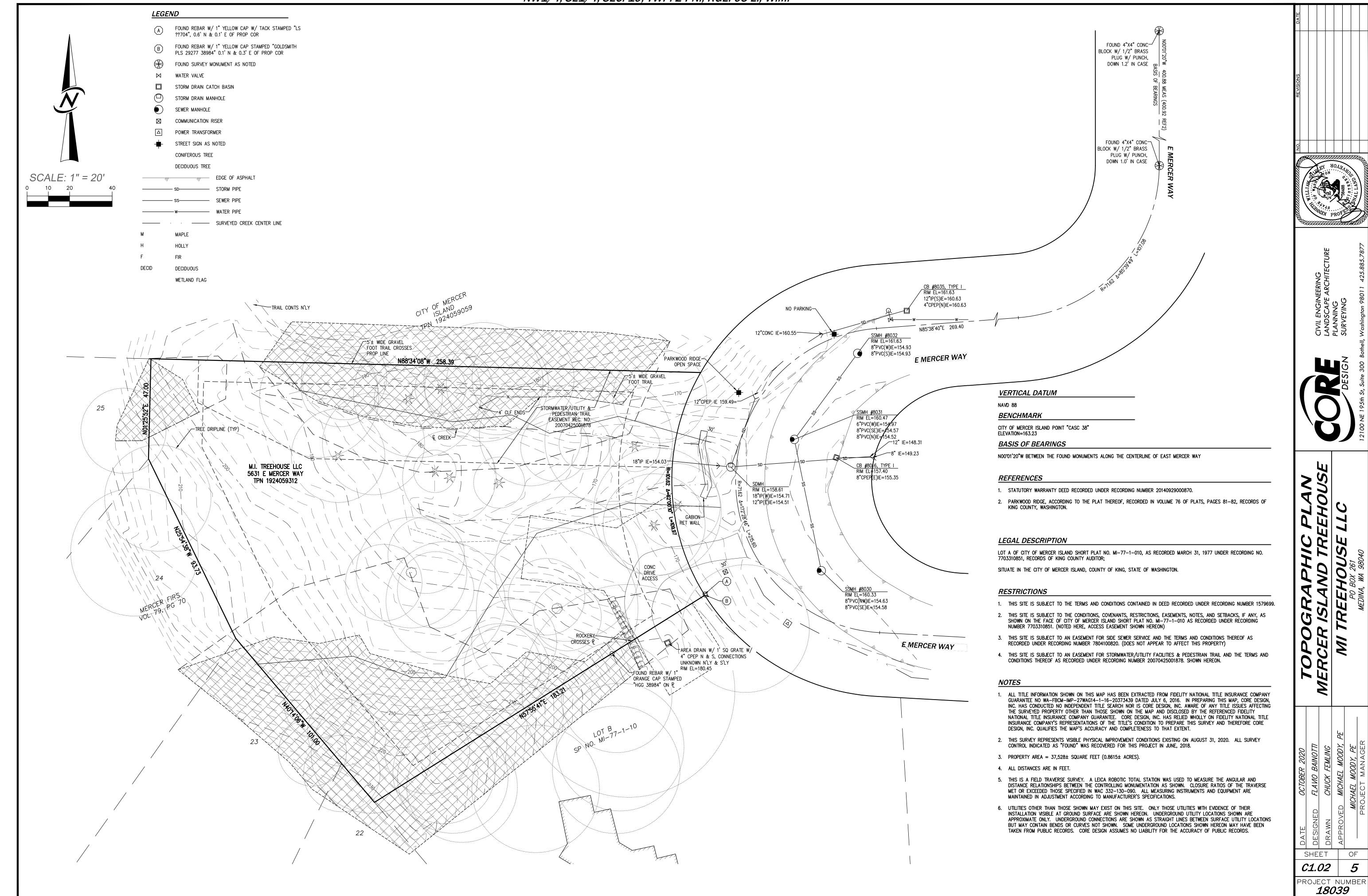
**BASIS OF BEARINGS** THIS SURVEY HAS BEEN PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. IN PREPARING THIS MAP, CORE DESIGN, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS CORE DESIGN, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND DISCLOSED BY STATUTORY WARRANTY DEED RECORDED UNDER RECORDING NUMBER 20140929000870 AND THEREFORE CORE DESIGN, INC. QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.

THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON JUNE 8, 2018. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN JUNE, 2018.

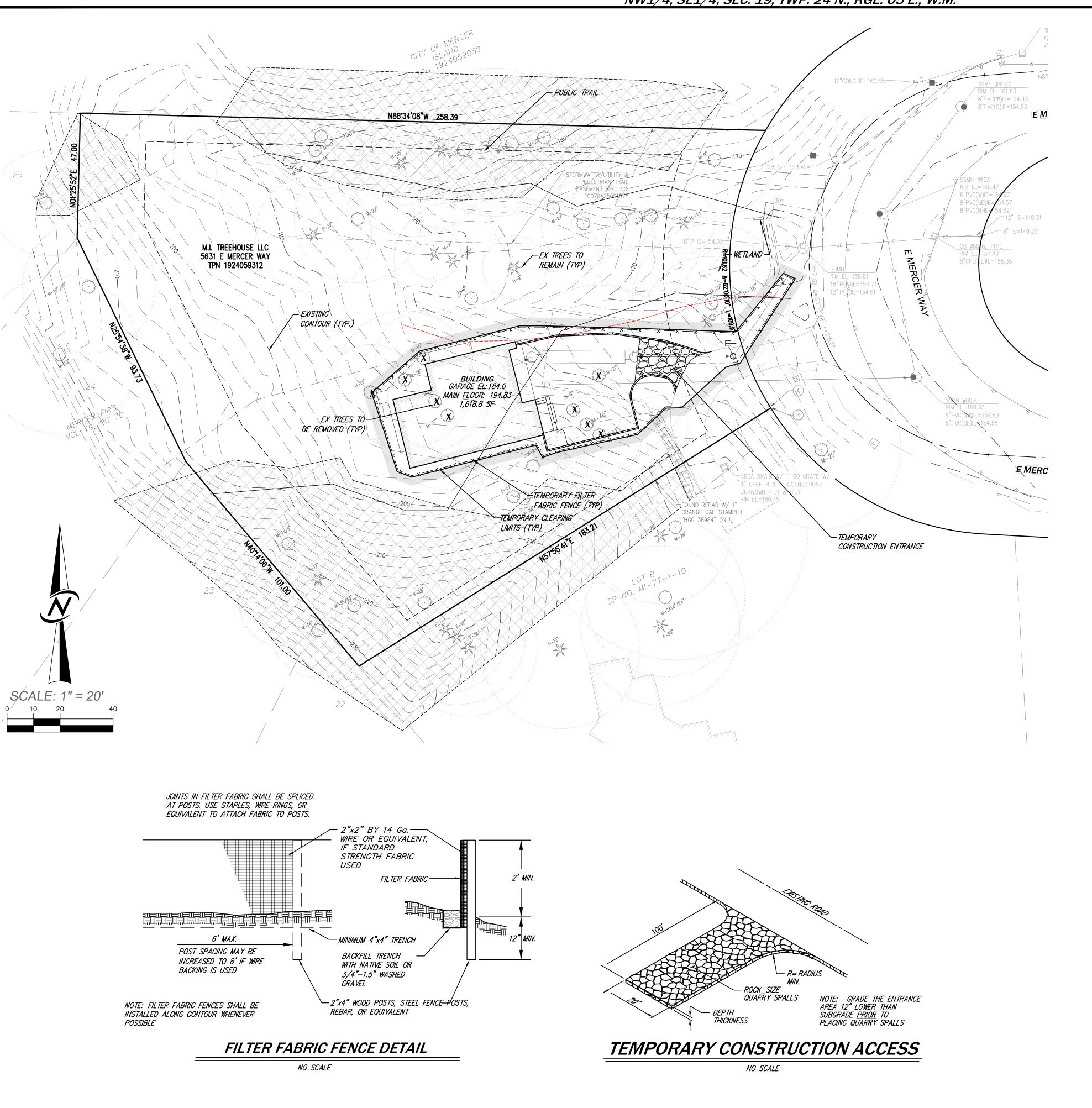
- 3. PROPERTY AREA = 37,528± SQUARE FEET (0.8615± ACRES).
- 4. ALL DISTANCES ARE IN FEET.
- THIS IS A FIELD TRAVERSE SURVEY. A LEICA ROBOTIC TOTAL STATION WAS USED TO MEASURE THE ANGULAR AND DISTANCE RELATIONSHIPS BETWEEN THE CONTROLLING MONUMENTATION AS SHOWN. CLOSURE RATIOS OF THE Traverse met or exceeded those specified in wac 332-130-090. All measuring instruments and EQUIPMENT ARE MAINTAINED IN ADJUSTMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALLATION VISIBLE AT GROUND SURFACE ARE SHOWN HEREON. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. UNDERGROUND CONNECTIONS ARE SHOWN AS STRAIGHT LINES BETWEEN SURFACE UTILITY LOCATIONS BUT MAY CONTAIN BENDS OR CURVES NOT SHOWN. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. CORE DESIGN ASSUMES NO LIABILITY FOR THE ACCURACY OF

EROSION CONTROL PLAN STORM, UTILITIES & GRADING PLAN STORM DRAINAGE DETAILS UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR

LOT SLOPE STATISTICS



4/20/2021 9:14 AMJ: \2018\18039\ENGINEERING\FINAL\SHEETS\X18039 C1.02



# **LEGEND**

41ST PAVEMENT EDGE

FOUND MONUMENT AS DESCRIBED

O FOUND PIPE/REBAR AS DESCRIBED

I MADRONA U UAK TIG FIG

D DOGWOOD

CLF CHAIN LINK FENCE

VBF VERTICAL BOARD FENCE

ROCKERY

INLET FILTER
(W.S.D.O.T. STD DTL. I-40.20-00)
SILT FENCE

STABILIZED CONSTRUCTION ENTRANCE
DOE STD DTL. BMP 205

CLEARING LIMITS

FILTER FABRIC FENCE

EXISTING CONTOUR

—110——— PROPOSED CONTOUR

ONSITE TREE TO BE REMOVED

# CONSTRUCTION SEQUENCE

- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF MERCER ISLAND BY PHONING (206)—275—7726.
- (2) FLAG LIMITS OF CLEARING IN FIELD AS INDICATED ON SHEET C2.01.
- (3) CLEAR FOR AND CONSTRUCT THE ROCKED CONSTRUCTION ACCESS.
- (4) CONSTRUCT PERIMETER FILTER FABRIC FENCES.
- (5) CONSTRUCT DOWNSTREAM DISCHARGE SYSTEM, INTERCEPTOR SWALES, ROCK CHECK DAMS, STORM DRAINAGE PIPES, RIP RAP PADS.
- 6) CLEAR & GRADE SITE WHILE EXTENDING TEMPORARY INTERCEPTOR SWALE AS CONSTRUCTION PROCEEDS. ALL SILT—LADEN RUNOFF SHALL BE DIRECTED TO SEDIMENT RETENTION FACILITIES.
- (7) CLEAR FOR AND CONSTRUCT DETENTION TANK FOR USE FOR SEDIMENT RETENTION AND CONSTRUCT DISCHARGE SYSTEM.
- (8) CONSTRUCT SANITARY SEWER, WATER, & REMAINING STORM DRAINAGE FACILITIES PER THE APPROVED PLANS.
- (9) FINE GRADE AND PAVE THE DRIVEWAY.
- 10) UPON COMPLETION OF GRADING ACTIVITIES, STABILIZE ALL DISTURBED AREAS, REMOVE EXCESS SEDIMENT FROM THE TANK AND REMOVE ALL TEMPORARY EROSION/ SEDIMENTATION CONTROL FACILITIES.

UNDERGROUND LOCATOR SERVICE

CALL BEFORE YOU DIG!

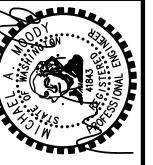
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# **UTILITY CONFLICT NOTE:**

# **CAUTION:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING
UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POTHOLING THE UTILITIES, AND
SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY
LOCATE © 1-800-424-555 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY
CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE
PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD
OCCUR, THE CONTRACTOR SHALL CONSULT CORE DESIGN, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH
CONSTRUCTION.

NO. REVISIONS



CAFE ARCHITECTORE
IING
YING
aton 98011 425.885.7877

DESIGN Straite 300 Bothell V

TROL PLAN
TREEHOUSE

CER ISLAND TREE

OVED MICHAEL MOODY, PE
MICHAEL MOODY, PE
PROJECT MANAGER

SHEET OF

C2.01 5

PROJECT NUMBER

18039

# SEWER GENERAL NOTES

1 ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DEVELOPER EXTENSION AGREEMENT, THE STANDARD SPECIFICATIONS, STANDARD DETAILS OF THE CITY OF MERCER ISLAND.

- 2 THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON PLANS AND PROFILES FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON PLANS.
- 3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED, BY APPROPRIATE UTILITY DISTRICTS OR COMPANIES, ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- 4 FOR UTILITY LOCATES IN KING COUNTY, CALL 1-800-424-5555 PRIOR TO DIGGING.

- 5 THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REGULATORY PERMITS.
- 6 ALL WORK IN RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITTING AGENCY. PRE-CON
- 7 A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD AT THE CITY OF MERCER ISLAND'S OFFICE PRIOR TO THE START OF CONSTRUCTION. DISTRICT STAFF WILL NOTIFY THE APPROPRIATE AGENCIES OR REPRESENTATIVES.

- 8 PRIOR TO CONSTRUCTING ANY SEWER MAINS, THE STREET CENTERLINES OF THE DEVELOPMENT, CENTER OF CUL-DE-SACS, ALL SEWER LINE EASEMENTS AND ALL LOT CORNERS SHALL BE STAKED. THE MAXIMUM STATIONING INTERVAL SHALL BE 50 FEET WITH THE
- HORIZONTAL CONTROL DATA SHALL BE NAD '83/'91. VERTICAL CONTROL SHALL BE NAVD-88 DATUM.
- 10 AT THE CONCLUSION OF CONSTRUCTION, THE DEVELOPER'S REGISTERED PROFESSIONAL SURVEYOR SHALL PREPARE A DRAWING BASED OF THE SURVEYED LOCATION OF ALL AT-GRADE APPURTENANCES INSTALLED, INCLUDING BUT NOT LIMITED TO, LOCATION OF EXISTING MANHOLES INCLUDING RIM & ALL INVERT ELEVATIONS AND NEW MANHOLE LOCATIONS INCLUDING RIM & ALL INVERT ELEVATIONS. THE DRAWING SHALL BE PROVIDED TO THE DISTRICT IN AUTOCAD FORMAT, R 2000 OR NEWER. IN ADDITION, ALL SEWER EASEMENTS SHALL BE STAKED AND FLAGGED AT THEIR INTERSECTION WITH PROPERTY LINES AND AT 25 FOOT STATIONS ALONG THE EASEMENT LINES.

### CONSTRUCTION

- 11 THE SEWER MAIN SHALL BE PLACED FIVE (5) FEET SOUTH OR WEST FROM THE CENTERLINE OF THE ROADWAY, UNLESS OTHERWISE SHOWN ON THE PLAN.
- 12 A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN THE SANITARY SEWER LINE AND THE WATER MAIN. AFTER TRENCH BACKFILL AND COMPACTION, PVC SANITARY SEWER MAINS SHALL BE TESTED FOR DEFLECTION AS SPECIFIED IN SECTION 7-17.3(2)G OF THE Washington state department of transportation's standard specifications for road, bridge and municipal construction test observation

### UTILITY DISTRICT.

- 14 WHENEVER SANITARY SEWER CROSSES BELOW A WATER MAIN, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER LINE IS AT LEAST EIGHTEEN (18) INCHES BELOW THE BOTTOM OF THE WATER MAIN.
- 15 ALL MANHOLES SHALL HAVE A MINIMUM DROP OF ONE—TENTH (0.10) FOOT AND FIVE—TENTHS (0.50) FOOT MAXIMUM DROP BETWEEN INVERT IN AND
- MANHOLES IN THE PUBLIC RIGHT-OF-WAY SHALL BE A MINIMUM OF EIGHT (8) FEET IN DEPTH OR PER APPROVED PLANS. MANHOLES NOT IN PAVED PUBLIC RIGHT-OF-WAY TO HAVE LOCKING LIDS AND ALL FRAMES SHALL BE LOCKING TYPE PER THE STANDARD DETAILS.
- FOR PIPE SLOPES GREATER THAN 20%, RESTRAINED-JOINT DUCTILE IRON PIPE SHALL BE USED FOR EVERY JOINT. SIDE SEWER STUBS SHALL HAVE A MINIMUM OF TWO (2) PERCENT SLOPE AND MAXIMUM OF FORTY-FIVE (45) DEGREE SLOPE. STUBS SHALL BE
- 6" MINIMUM DIAMETER. FOR ALL STUBS LESS THAN EIGHT (8) FEET IN DEPTH: INSTALL A THREE (3) INCH WIDE GREEN METALLIC DETECTOR TAPE 12" ABOVE THE PIPE, THE ENTIRE LENGTH OF THE STUB CONTINUING UP THE 2X4 SIDE SEWER MARKER POST. IDENTIFICATION ON THE TAPE SHALL INCLUDE THE WORDS "SANITARY SEWER".

20 SANITARY SEWER PIPE LESS THAN EIGHTEEN (18) FEET IN DEPTH AND LESS THAN 20% SLOPE SHALL BE PVC CONFORMING TO ASTM D-3034, SDR-35 AND SHALL BE BEDDED WITH CLEAN, GRANULAR MANUFACTURED PEA GRAVEL FROM 4"UNDER TO 6"OVER THE PIPE. SANITARY SEWER PIPE EIGHTEEN (18) FEET DEEP AND GREATER, OR ON A SLOPE OF 20% DUCTILE-IRON PIPE MUST MEET THE REQUIREMENTS OF AWWA C-151. 21 HIGH-DENSITY POLYETHYLENE (HDPE) SHALL BE SDR-11 MINIMUM.

### -COMPACTED 6" HMA CLASS 3 **SUBGRADE** CRUSHED ROCK 12" SUITABLE SUBGRADE COMPACTED — BASE PER WSDOT TO 95% OF MAX DRY DENSITY PER SPEC. 9-03.9 (3) A.S.T.M. D-15557

DRIVEWAY SECTION

**VARIES** 

# *NO SCALE*

### STORM DRAINAGE GENERAL NOTES

- ALL NEW CATCH BASINS SHALL CONFORM TO THE APWA WSDOT STANDARD DETAILS.
- THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED
- PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION FILTER AND SILT REMOVAL FACILITIES TO ENSURE THAT SEDIMENT OR OTHER HAZARDOUS MATERIALS DO NOT ENTER THE STORM DRAINAGE SYSTEM. FOR ALL CONSTRUCTION DURING THE RAINY SEASON. DOWNHILL BASINS AND INLETS MUST BE PROTECTED WITH CATCH BASINS INSERTS. PLACEMENT OF FILTER FABRIC UNDER GRATE IS NOT ACCEPTABLE.
- PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAINAGE SYSTEM (SUCH AS RUBBLE, MORTAR, AND WEDGED DEBRIS) SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATER.
- ON-SITE DRAINAGE SYSTEM WILL BE PRIVATELY OWNED AND MAINTAINED.
- 6. SEE FOUNDATION PLAN FOR FOOTING DRAIN LOCATIONS.
- EXCAVATION OF ON—SITE CATCH BASINS WILL NOT IMPACT NEIGHBORING PROPERTY AND WILL BE CONTAINED

### GENERAL NOTES

- 1. CONTRACTOR IS TO OBTAIN PERMITS AND GUARANTEES.
- ALL DAMAGE TO ADJACENT PROPERTIES OR PUBLIC RIGHTS-OF-WAY RESULTING FROM CONSTRUCTION (E.G., SILTATION, MUD, WATER, RUNOFF, ROADWAY DAMAGE CAUSED BY CONSTRUCTION EQUIPMENT OR HAULING) SHALL BE EXPEDITIOUSLY MITIGATED AND REPAIRED BY THE CONTRACTOR. AT NO EXPENSE TO THE CITY. FAILURE TO MITIGATE AND REPAIR SAID DAMAGE OR TO COMPLY WITH THE APPROVED CONSTRUCTION PLANS, THE PERMITS ISSUED BY THE CITY OR THE CITY REQUIREMENT FOR CORRECTIVE ACTION SHALL BE CAUSE FOR THE ISSUANCE OF A "STOP WORK" ORDER, FORECLOSURE ON THE PLAT BOND/ SECURITY, AND/OR OTHER MEASURES DEEMED APPROPRIATE BY THE CITY ENGINEER OR CODE OFFICIAL TO ENSURE QUALITY CONSTRUCTION AND
- CONSTRUCTION OF ALL IMPROVEMENTS FOR ACCESS, UTILITIES, STORM DRAINAGE AND SITE WORK SHALL COMPLY WITH CURRENT CITY ORDINANCES AND THE
- ALL SHORT PLAT IMPROVEMENTS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL AND RECORDING OF THE SHORT PLAT MYLAR DOCUMENTS OR BONDED AND COMPLETED PRIOR TO ISSUANCE OF BUILDING PERMITS WHEN APPROVED BY THE CITY ENGINEER. AN ACCURATELY PREPARED AS—BUILT DRAWING THAT SHOWS ALL UTILITIES AND SHORT PLAT IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY UPON COMPLETION OF THE WORK PROVIDED TWO PAPER COPIES, ONE MYLAR AND ONE DXF AUTOCAD FILE. SUBMIT USING MERCER ISLAND'S DATUM AN TIE THE PLAT TO AT LEAST TWO MONUMENTS.

### TREE PROTECTION NOTES

- 1. CONTRACTOR SHALL COORDINATE WITH ARBORIST ON GRADING AROUND RETAINED TREES AND ROOTS
- 2. ARBORIST TO BE ONSITE TO VERIFY PRESERVATION OF RETAINED TREES

# WATER GENERAL NOTES

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE DEVELOPER EXTENSION AGREEMENT, THE STANDARD SPECIFICATIONS AND THE STANDARD DETAILS OF THE CITY OF MERCER ISLAND.

- 2 THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON PLANS AND PROFILES FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN AND FOR DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON PLANS.
- 3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED BY APPROPRIATE UTILITY DISTRICTS OR COMPANIES, ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. 4 FOR UTILITY LOCATES IN KING COUNTY, CALL 1-800-424-5555 PRIOR TO DIGGING

### 5 THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REGULATORY PERMITS.

6 ALL WORK IN RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PERMITTING AGENCY.

7 A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD AT THE CITY OF MERCER ISLAND'S OFFICE PRIOR TO THE START OF CONSTRUCTION. CITY STAFF WILL NOTIFY THE APPROPRIATE AGENCIES OR

### SURVEYING

- 8 PRIOR TO CONSTRUCTING ANY WATER MAINS, THE STREET CENTERLINES OF THE DEVELOPMENT, CENTER OF CUL-DE-SACS, ALL WATER LINE EASEMENTS AND ALL LOT CORNERS SHALL BE STAKED. THE MAXIMUM STATIONING INTERVAL WILL BE 50 FEET WITH THE STATION NUMBER ON EACH STAKE.
- HORIZONTAL CONTROL DATA SHALL BE NAD '83/'91. VERTICAL CONTROL SHALL BE NAVD-88 DATUM.
- 10 AT THE CONCLUSION OF CONSTRUCTION, THE DEVELOPER'S REGISTERED PROFESSIONAL SURVEYOR SHALL PREPARE A DRAWING BASED ON THE SURVEYED LOCATIONS OF ALL APPURTENANCES INSTALLED, INCLUDING BUT NOT LIMITED TO, WATER MAIN, METER BOXES, BLOWOFFS, VALVES BOXES, HYDRANTS AND BENDS. THE DISTRICT WILL PROVIDE LOCATES TO ASSIST THE SURVEYOR IN LOCATING THE WATER MAIN BETWEEN APPURTENANCES AND LOCATING THE BENDS. THE DRAWING SHALL BE PROVIDED TO THE DISTRICT IN AUTOCAD FORMAT, R 2000 OR NEWER. IN ADDITION, ALL WATER EASEMENTS SHALL BE STAKED AND FLAGGED AT THEIR INTERSECTION WITH PROPERTY LINES AND AT 25 FOOT STATIONS ALONG THE EASEMENT LINES.

- 11 THE WATER MAIN SHALL BE PLACED AS SHOWN ON PLAN.
- 12 A MINIMUM TEN (10) FOOT HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN THE SANITARY SEWER LINE AND THE WATER MAIN.
- 13 A FIVE (5) FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER FACILITIES AND UNDERGROUND POWER AND TELEPHONE FACILITIES, UNLESS OTHERWISE APPROVED BY THE
- DISTRICT. 14 DISTRICT VALVES SHALL ONLY BE OPERATED BY DISTRICT PERSONNEL.

- 15 ALL WATER MAIN PIPING SHALL BE DUCTILE—IRON MINIMUM THICKNESS CLASS 52, CEMENT—MORTAR LINED AND TYTON JOINT. ALL WATER MAIN PIPING TO MEET THE REQUIREMENTS OF AWWA C-151.
- 16 ALL WATER MAIN FITTINGS SHALL BE CEMENT-MORTAR LINED AND MEET THE REQUIREMENTS OF AWWA C-153.
- 17 POLYETHYLENE ENCASEMENT TO MEET THE AWA STANDARD C-105. ANY TEARS OR OPENINGS MADE FOR SERVICE OR TAPS SHALL BE REPAIRED WITH AN ADHESIVE TAPE. 18 ALL WATER MAIN PIPES AND SERVICES SHALL BE INSTALLED WITH A 14 (FOURTEEN) GAUGE, CONTINUOUS, SOLID-CORE, NEOPRENE COATED LOCATING WIRE. ANY CONNECTIONS OR SPLICES SHALL BE MADE WITH SPLIT-BOLT WIRE CONNECTORS.

- PLACEMENT 19 FIRE HYDRANT LOCATIONS TO BE APPROVED BY THE FIRE MARSHAL OF JURISDICTION.
- 20 Water service line and meter locations will be coordinated with the developer's engineer after a thorough review of all utility facilities.
- 20-1 THE METER LOCATION SHALL BE WITHIN THREE (3) FEET OF THE PROPERTY LINE THAT IS PERPENDICULAR TO THE RIGHT-OF-WAY AND WITHIN ONE (1) FOOT OF THE EDGE OF PROPERTY ON THE RIGHT-OF-WAY SIDE UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
- 20-2 AFTER INSTALLATION OF THE METER AND BOX, A 2X4 BOARD PAINTED WHITE WITH "WATER SERVICE" STENCILED ONTO IT WILL BE DRIVEN INTO THE GROUND BEHIND THE METER BOX.

UNDERGROUND LOCATOR SERVICE CALL BEFORE YOU DIG! 811

# **UTILITY CONFLICT NOTE:**

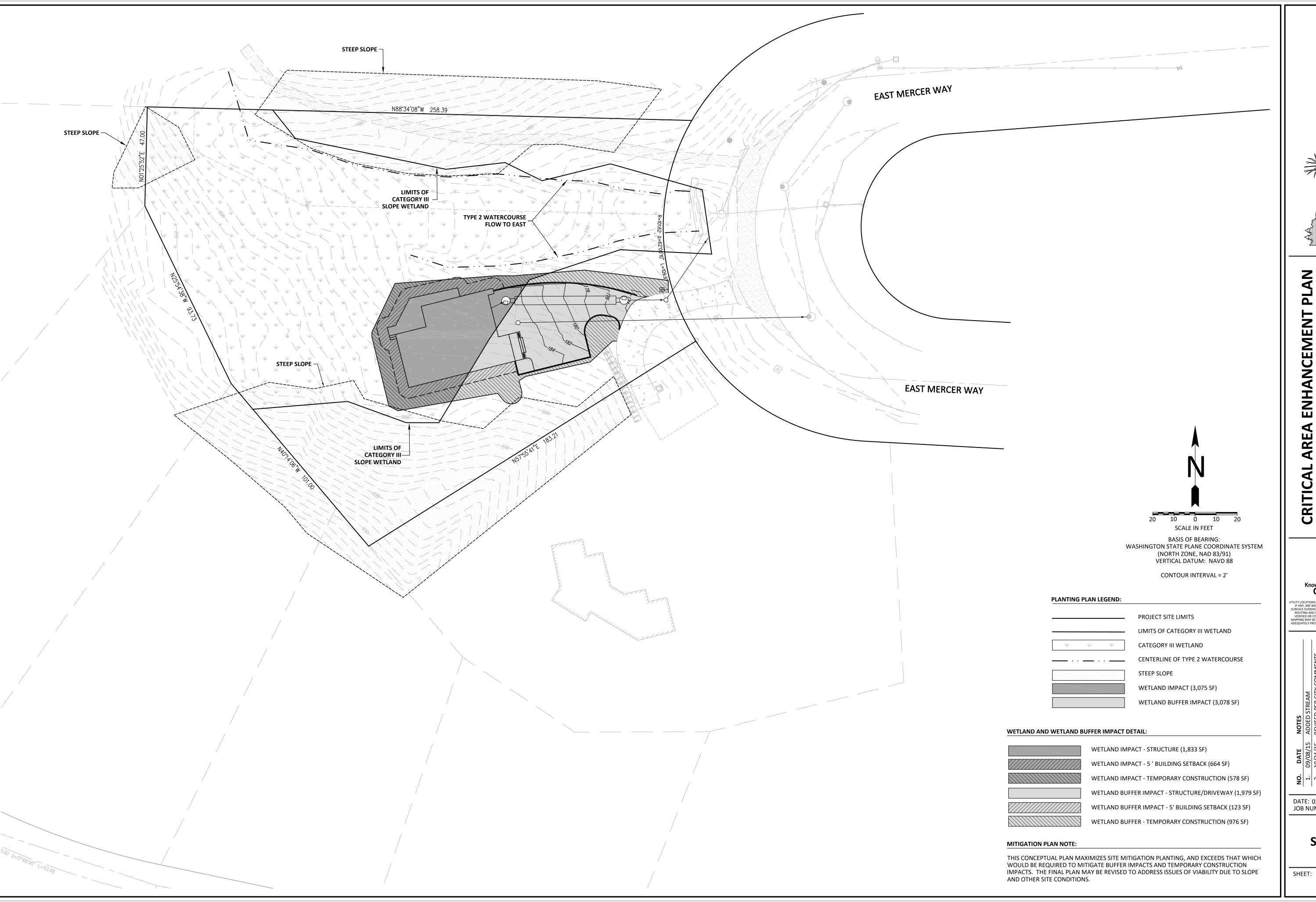
# **CAUTION:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, CONTACTING ALL UTILITY COMPANIES, POTHOLING THE UTILITIES, AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY I OCATE @ 1-800-424-555 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT CORE DESIGN, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH

SHEET OF C4.01

& O > 7

ROJECT NUMBER 18039



AREA ENHANCEMENT
- MI TREEHOUSE LLC -

Know what's **below. Call before you dig.** 

UTILITY LOCATIONS AND CHARACTERISTICS SHOWN ON THIS DRAWING, IF ANY, ARE BASED ON THE FIELD LOCATION OF THE APPARENT SURFACE EVIDENCE OF EXISTING STRUCTURES. THE UNDERGROUND ROUTING AND CONDITION OF BURIED UTILITIES HAS NOT BEEN VERIFIED OR CONFIRMED. ADDITIONAL UTILITY LOCATION AND MAPPING MAY BE REQUIRED. FIELD LOCATE, VERIFY DEPTH OF, AND ADEQUATELY PROTECT ALL UTILITIES PRIOR TO THE START OF WORK.

DATE: 03/04/2015 JOB NUMBER: 14-206

**SITE PLAN** 

**1** OF **2** 

### **MITIGATION PLAN NOTE:**

SCALE IN FEET BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM

> (NORTH ZONE, NAD 83/91) **VERTICAL DATUM: NAVD 88**

CONTOUR INTERVAL = 2'

THIS CONCEPTUAL PLAN MAXIMIZES SITE MITIGATION PLANTING, AND EXCEEDS THAT WHICH WOULD BE REQUIRED TO MITIGATE BUFFER IMPACTS AND TEMPORARY CONSTRUCTION IMPACTS. THE FINAL PLAN MAY BE REVISED TO ADDRESS ISSUES OF VIABILITY DUE TO SLOPE AND OTHER SITE

### **PLANTING PLAN NOTES:**

- 1. BASE TOPOGRAPHIC AND SITE PLAN PROVIDED BY HEALY-JORGENSEN ARCHITECTS (2958 222ND PLACE SE - SAMMAMISH, WASHINGTON 98075; 425-454-3096). SOURCE DRAWINGS HAVE BEEN MODIFIED FOR VISUAL ENHANCEMENT.
- 2. PROTECT AND ACCOMMODATE EXISTING NATIVE VEGETATION WHEN INSTALLING PLANTS.
- 3. PLANT MATERIAL QUALITY AND LOCATIONS SHALL BE INSPECTED BY PLAN DESIGNER PRIOR TO PLANT INSTALLATION.
- 4. PLANT LOCATIONS SHOWN ARE APPROXIMATE. ADJUST PLANT LOCATIONS TO ACCOMMODATE SITE CONDITIONS, TO PRESERVE AND PROTECT EXISTING NATIVE VEGETATION, AND/OR PER PLAN DESIGNER AT THE TIME OF INSTALLATION.
- 5. SEE THIS SHEET FOR PLANT INSTALLATION DETAILS.

### **PLANT SCHEDULE:**

Me		COMMON NAME	SCIENTIFIC NAME	SIZE/FORM	QUANTITY	SPACING
Z.C.Z		WESTERN REDCEDAR	THUJA PLICATA	2 GALLON CONTAINERIZED	30	AS SHOWN
MVc	(tb) —	TWINBERRY HONEYSUCKLE	LONICERA INVOLUCRATA	2 GALLON CONTAINERIZED	13	AS SHOWN
Sb		SALMONBERRY	RUBUS SPECTABILIS	2 GALLON CONTAINERIZED	52	AS-SHOWN
		RED-OSIER DOGWOOD	CORNUS SERICEA	4 FOOT LIVE STAKE	25	4 FT ON-CENTER

**TOTAL - 120** 

# PLANTING PLAN

# MONITORING PLAN & MAINTENANCE PLAN

### **ENHANCEMENT PLAN GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS**

ENHANCEMENT PLAN GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS ARE OUTLINED IN TABLE 2-1 (BELOW). THE GOALS AND OBJECTIVES OF THIS PLAN ARE CONSIDERED ACHIEVED WHEN THE PERFORMANCE STANDARDS ARE SATISFIED.

### **MONITORING PLAN**

### **AS-BUILT**

FOLLOWING COMPLETION OF THE WORK SHOWN ON THIS PLAN, A QUALIFIED PROFESSIONAL SHALL PREPARE AN AS-BUILT OF THE COMPLETED WORK. THE AS-BUILT SHALL SUMMARIZE THE COMPLETED WORK AS WELL AS ANY DEVIATIONS FROM THE APPROVED VERSION OF THIS PLAN.

BASELINE MONITORING DATA SHALL BE COLLECTED AT THE TIME OF THE AS-BUILT (SEE "ANNUAL COMPLIANCE MONITORING" FOR FIELD DATA COLLECTION REQUIREMENTS). PERMANENT PHOTO POINTS SHALL BE ESTABLISHED AT THE TIME OF THE AS-BUILT TO PHOTOGRAPHICALLY DOCUMENT REPRESENTATIVE CONDITIONS WITHIN BUFFER AREAS. BASELINE MONITORING AND PHOTOGRAPHS SHALL BE SUBMITTED WITH THE AS-BUILT

THE AS-BUILT AND BASELINE MONITORING DATA SHALL BE SUBMITTED TO THE CITY OF MERCER ISLAND NO LATER THAN 30 DAYS FROM THE DATE THAT THE WORK SHOWN ON THIS PLAN HAS BEEN COMPLETED.

### ANNUAL MONITORING

FOLLOWING ACCEPTANCE OF THE AS-BUILT BY THE CITY OF MERCER ISLAND, ANNUAL COMPLIANCE MONITORING SHALL BE COMPLETED FOR A PERIOD OF FIVE (5) YEARS. ANNUAL COMPLIANCE MONITORING SHALL BE COMPLETED BY A QUALIFIED PROFESSIONAL AND SHALL COMPRISE A SITE INVESTIGATION IN AUGUST OR SEPTEMBER AND REPORTING TO THE CITY OF MERCER ISLAND BY NOVEMBER 30 OF EACH MONITORING YEAR.

MONITORING SHALL COMPRISE A QUANTITATIVE ASSESSMENT OF CONDITIONS WITHIN BUFFER AREAS FOR PURPOSES OF EVALUATING THE CURRENT YEAR'S SUCCESS STANDARDS. AT THE TIME OF EACH MONITORING, THE FOLLOWING INFORMATION SHALL BE COLLECTED WITHIN BUFFER AREAS AND ASSESSED RELATIVE TO THE SUCCESS STANDARDS ESTABLISHED FOR THE PROJECT:

 THE CONDITION OF INSTALLED PLANT STOCK INCLUDING SURVIVORSHIP, HEALTH, AND VIGOR. THE RATIONALE FOR POOR CONDITIONS, IF PRESENT, WILL BE DETERMINED.

A DIRECT COUNT INVENTORY AND ASSESSMENT OF INSTALLED PLANT STOCK SHALL BE USED TO EVALUATE PLANT STOCK CONDITIONS. IN ADDITION, PHOTOGRAPHS OF BUFFER AREAS SHALL BE TAKEN FROM THE PERMANENT PHOTO POINTS ESTABLISHED DURING THE AS-BUILT.

THE RESULTS OF EACH MONITORING ASSESSMENT SHALL BE SUMMARIZED IN A WRITTEN REPORT AND SUBMITTED TO THE CITY OF MERCER ISLAND NO LATER THAN NOVEMBER 30 OF THE RESPECTIVE MONITORING YEAR.

### CONTINGENCY PLAN

SHOULD ANY COMPLIANCE MONITORING ASSESSMENT REVEAL THAT THE PERFORMANCE STANDARDS FOR THE RESPECTIVE YEAR ARE NOT SATISFIED, THE PERMITTEE SHALL WORK WITH THE CITY OF MERCER ISLAND TO DEVELOP A CONTINGENCY PLAN TO ADDRESS THE DEFICIENCY(IES). CONTINGENCY PLANS CAN INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING ACTIONS:

- ADDITIONAL PLANT INSTALLATION;
- EROSION CONTROL;
- HERBIVORY PROTECTION;
- MODIFICATION TO THE IRRIGATION REGIME; AND/OR 5. PLANT SUBSTITUTIONS OF TYPE, SIZE, QUANTITY, AND LOCATION.

SUCH CONTINGENCY PLAN SHALL BE SUBMITTED TO THE CITY OF MERCER ISLAND BY JANUARY 31 OF ANY YEAR WHEN DEFICIENCIES ARE DISCOVERED. UNLESS OTHERWISE APPROVED BY THE CITY OF MERCER ISLAND, ACTIONS SPECIFIED ON AN APPROVED CONTINGENCY PLAN MUST BE COMPLETED WITHIN 60 DAYS. IF THE FAILURE IS SUBSTANTIAL, THE CITY OF MERCER ISLAND MAY EXTEND THE COMPLIANCE MONITORING PERIOD FOR THE ENHANCEMENT WORK.

### **MAINTENANCE PLAN**

THIS SECTION PROVIDES A GENERAL OVERVIEW OF THE MAINTENANCE PROGRAM NECESSARY TO ENSURE THE PERFORMANCE STANDARDS ESTABLISHED FOR THIS PLAN ARE SATISFIED.

### **GENERAL MAINTENANCE**

INSTALLED PLANTS SHALL BE MAINTAINED AT REGULAR INTERVALS DURING THE MONITORING PERIOD TO PROMOTE THE SUCCESSFUL ESTABLISHMENT AND VIGOROUS GROWTH OF THE INSTALLED PLANT STOCK.

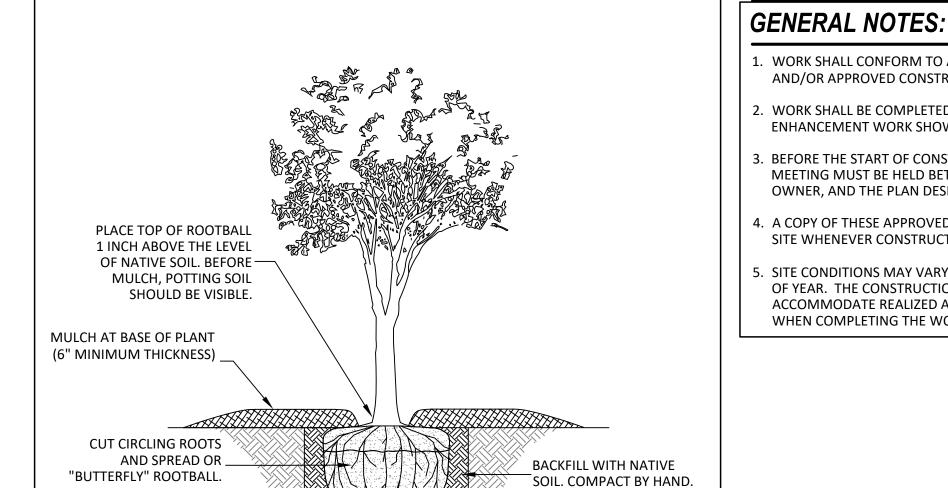
GENERAL MAINTENANCE SHALL INCLUDE:

- RE-APPLYING BARK MULCH TO MAINTAIN A 6" MINIMUM APPLIED THICKNESS - YEAR 1 ONLY.
- 3. THE PRUNING OF INSTALLED PLANTS TO REMOVE DEAD WOOD AND PROMOTE VIGOROUS PLANT GROWTH AND PROPER FORM.
- 4. THE REPLACEMENT OF PLANTS THAT APPEAR TO BE IN DISTRESS AND/OR DISEASED.
- 5. THE REMOVAL OF TRASH, LITTER, AND/OR OTHER NON-DECOMPOSING

GENERAL MAINTENANCE WORK SHALL OCCUR MONTHLY DURING THE GROWING SEASON AND/OR AT A FREQUENCY OTHERWISE NECESSARY TO ENSURE THE SUCCESSFUL ESTABLISHMENT AND VIGOROUS GROWTH OF THE INSTALLED PLANTS.

# TABLE 2-1: GOALS, OBJECTIVES, MONITORING SCHEDULE, & PERFORMANCE STANDARDS

			,
GOAL	OBJECTIVE	SCHEDULE	PERFORMANCE STANDARDS
TO SUCCESSFULLY ENHANCE ON-SITE WETLAND AND BUFFER AREAS USING NATIVE PLANT SPECIES.	TO INSTALL AND SUCCESSFULLY ESTABLISH NATIVE PLANTINGS AS SHOWN ON THIS DRAWING.	AUGUST OR SEPTEMBER OF YEARS 1, 2, 3, 4, & 5 FOLLOWING PLANT INITIAL INSTALLATION	<ul> <li>100% SURVIVAL BY INSTALLED PLANT STOCK AFTER THE FIRST GROWING SEASON (YEAR 1). THIS STANDARD CAN BE MET THROUGH PLANT ESTABLISHMENT OR REPLANTING, AS NECESSARY, TO ACHIEVE THE REQUIRED PLANT NUMBERS.</li> <li>85% SURVIVAL BY INSTALLED PLANT STOCK AFTER THE FIFTH GROWING SEASON (YEAR 5).</li> </ul>



MIN. 1.5 TIMES THE WIDTH OF THE ROOTBALL

PLANT INSTALLATION DETAIL

NATIVE SOIL

- WORK SHALL CONFORM TO ANY AND ALL APPLICABLE PERMITS AND/OR APPROVED CONSTRUCTION DRAWINGS.
- 2. WORK SHALL BE COMPLETED BY PERSONS EXPERIENCED IN THE ENHANCEMENT WORK SHOWN ON THESE DRAWINGS.
- B. BEFORE THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN MERCER ISLAND, THE OWNER, AND THE PLAN DESIGNER.
- 4. A COPY OF THESE APPROVED DRAWINGS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 5. SITE CONDITIONS MAY VARY BASED ON SEASON AND/OR TIME OF YEAR. THE CONSTRUCTION CONTRACTOR SHALL ACCOMMODATE REALIZED AND ANTICIPATED SITE CONDITIONS WHEN COMPLETING THE WORK SHOWN ON THESE DRAWINGS.

Know what's **below.** Call before you dig.

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JTILITY LOCATIONS AND CHARACTERISTICS SHOWN ON THIS DRAWIN IF ANY, ARE BASED ON THE FIELD LOCATION OF THE APPARENT SURFACE EVIDENCE OF EXISTING STRUCTURES. THE UNDERGROUNI ROUTING AND CONDITION OF BURIED UTILITIES HAS NOT BEEN VERIFIED OR CONFIRMED. ADDITIONAL UTILITY LOCATION AND MAPPING MAY BE REQUIRED. FIELD LOCATE, VERIFY DEPTH OF, ANI ADEQUATELY PROTECT ALL UTILITIES PRIOR TO THE START OF WOR!

DATE: 03/04/2015 JOB NUMBER: 14-206

Planting Plan, Notes, Details, & **Monitoring Plan** 

2 of 2