STANDARDS:

JURISDICTION,

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 PROPERTY.

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, imes 1" GALY, ANCHORS SPACED 2' MIN. O.C.. IN SEISMIC ZONES 344, 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:

APPROYED 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 T, AT BUILT-IN GUTTERS

FIREBLOCKING:

FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH YERTICAL 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: 1.1 YERTICALLY AT THE CEILING AND FLOOR LEVELS. 1.2 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED YERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COYE 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 R1003.19.

RATPROOFING:

STRAINER PLATES ON DRAIN INLETS SHALL BE DESIGNED AND INSTALLED SO THAT NO OPENING IS GRATER THAN 12-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 APPROVED 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 1/2-INCH IN

GARAGE SEPARATION:

THE LEAST DIMENSION.

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' ABOVE 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.

FIREPLACES:

GAS ZERO-CLEARANCE FIREPLACES SHALL BE UL APPROYED. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE IBC AND THE MANUFACTURER'S SPECIFICATIONS, THEY 6HALL 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 INDUCTION FAN.

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 VALVE 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-IO 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 TO THE WALL,

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,

EYERY 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 REQUIREMENTS:

I, 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 ASSEMBLY 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 1.57 LBS/6F PRESSURE DIFFERENCE AND HAVE A LABEL ATTACHED, SHOWING COMPLIANCE.

WATER EFFICIENCY STANDARDS:

MAXIMUM WATER USE ALLOWED MEASURED IN GALLONS PER MINUTE (GPM): SHOWERHEADS 1,75 GPM LAVATORY FAUCETS 1.0 GPM

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

KITCHEN FAUCETS

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 BE FLOW RATED AT 0.25 W.G. STATIC PRESSURE. MINIMUM EFFICACY 2.8CFM/WATT

PRESCRIPTIVE DUCT SIZING:

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	0 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	5 <i>0</i> '	
100	6 INCH	45'	6 INCH	NO LIMIT	
125	6 INCH	15'	6 INCH	NO LIMIT	
125	7 INCH	70'	7 INCH	NO LIMIT	
THERE SHA	LL BE A MAXI	MUM OF THREE ELBO	DWS, FOR EACH	FLBOW OVER THREE SU	IBTRACT

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 1.5 CREDIT

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 INI FT 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 VERIFIED BY FIELD TESTING WITH A FLOW HOOD OR A FLOW MEASURING STATION.

THE WHOLE HOUSE YENTILATION 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. I.O 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 YENT OUTLET, UNLESS SUCH YENT OUTLET IS 3 FEET ABOYE THE OUTDOOR AIR INLET. B) WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMMABLE

SYSTEM UNLESS SUCH YENT OPENING IS AT LEAST 3 FEET ABOYE THE AIR INLET.

VAPORS. C) A HATARDOUS OR UNSANITARY LOCATION D) A ROOM OR SPACE HAVING ANY FIJEL-BURNING APPLIANCE THEREIN. E) CLOSER THAN 10 FEET FROM A VENT OPENING OF A PLUMBING DRAINAGE

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 MISO8,2 OF THE IRC.

THE HYAC 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)

WALLS: R-21 INT. 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

PIPE INSULATION: R-3

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

POSITION, DOORS BETWEEN RESIDENCE AND GARAGE ARE NOT CONSIDERED FIRE-RATED.

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

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.

NON-COMPLIANCE WITH MI ORDINACES:

THIS IS NOT THE LOCATION WE SELECTED FOR THE HOUSE, NOR DO WE WE FEEL IT IS A REASONABLE LOCATION FOR MANY REASONS. THE LOCATION WAS SELECTED BY EVAN MAXIM, COMMUNITY PLANNING & DEVELOPMENT DIRECTOR, NOT ONLY IS IT A DIFFICULT AND EXPENSIVE LOCATION TO BUILD A HOUSE IT VIOLATES MANY CITY ORDINATES WITH EVAN'S BLESSINGS, PLEASE CONTACT HIM WITH ANY QUESTIONS OR CONCERNS. DRIVEWAY SLOPE IS GREATER THAN 15%. STRUCTURE EXCEEDS ALLOWABLE HEIGHT LIMIT. STRUCTURE EXCEEDS DOWNHILL HEIGHT LIMIT. STRUCTURE ENCROACHES INTO EASEMENT SETBACKS. STRUCTURE ENCROACHES INTO BOTH STREAM'S SETBACKS.

ARCHITECTURAL PLANS

A 1.0 GENERAL NOTES A11SITE PLAN A 1.2 MI DEVELOPMENT PLAN A 2.1GARAGE PLAN A 2.2 MAIN FLOOR PLAN A 2.3UPPER FLOOR PLAN A 2.4 ROOF PLAN

SECTION "A-A" A3.1A 3.2 SECTION "B-B" SECTION "C-C" A 3.3 SECTION "D-D

ELEVATIONS SOUTH - EAST A 4.2 ELEVATIONS NORTH - WEST

A 5.1 DETAILS DETAILS A 5.2 DETAILS A 5.3 A 5,4 STAIRS A 5.5 WINDOWS

CABINETS A 6.1

GARAGE FLOOR ELECTRICAL A 6.2 MAIN FLOOR ELECTRICAL A 6.3 UPPER FLOOR ELECTRICAL

STRUCTURAL PLANS

SHORING PIN PILE DETAILS SHORING PIN PILE PLAN S 1.0 STRUCTURAL NOTES

S 2.0 FOUNDATION PLAN S 2.1 MAIN FLOOR FRAMING PLAN UPPER FLOOR FRAMING PLAN S 2.2 S 2.3 ROOF FRAMING PLAN

S 3.0 FOUNDATION DETAILS S 3.1 FOUNDATION DETAILS S 3.2 FOUNDATION DETAILS S 4.0 FRAMING DETAILS S 4.1 FRAMING DETAILS

SURVEY PLAN

S 4.2

S 4.3

4/4

2/2

CIVIL ENGINEERING PLANS

FRAMING DETAILS

FRAMING DETAILS

TITLE & TSPE PLAN 2/4 TSPE DETAILS 3/4 UTILITY & GRADING PLAN

STORM DETAILS

CORE SURVEY

WETLAND PLANS

WETLAND BUFFER IMPACT SITE PLAN

PLANTING PLAN

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6-25-2020

PROJECT NO.

HEET NO.

RONALD R. HEALEY
STATE OF WASHINGTON

EY ALLIANCE AZ DDYEAR, AZ. 85395 - (425) 444-6768 HITECTS

MI Treehouse, LLC, 5637 EAST MERCER WAY

SITE PLAN

DATE 6-25-2020

PROJECT NO.

001 SHEET NO.

CITY OF MERCER ISLAND





INSPECTION REQUESTS:

online	1
	MyBuildingPermit.com

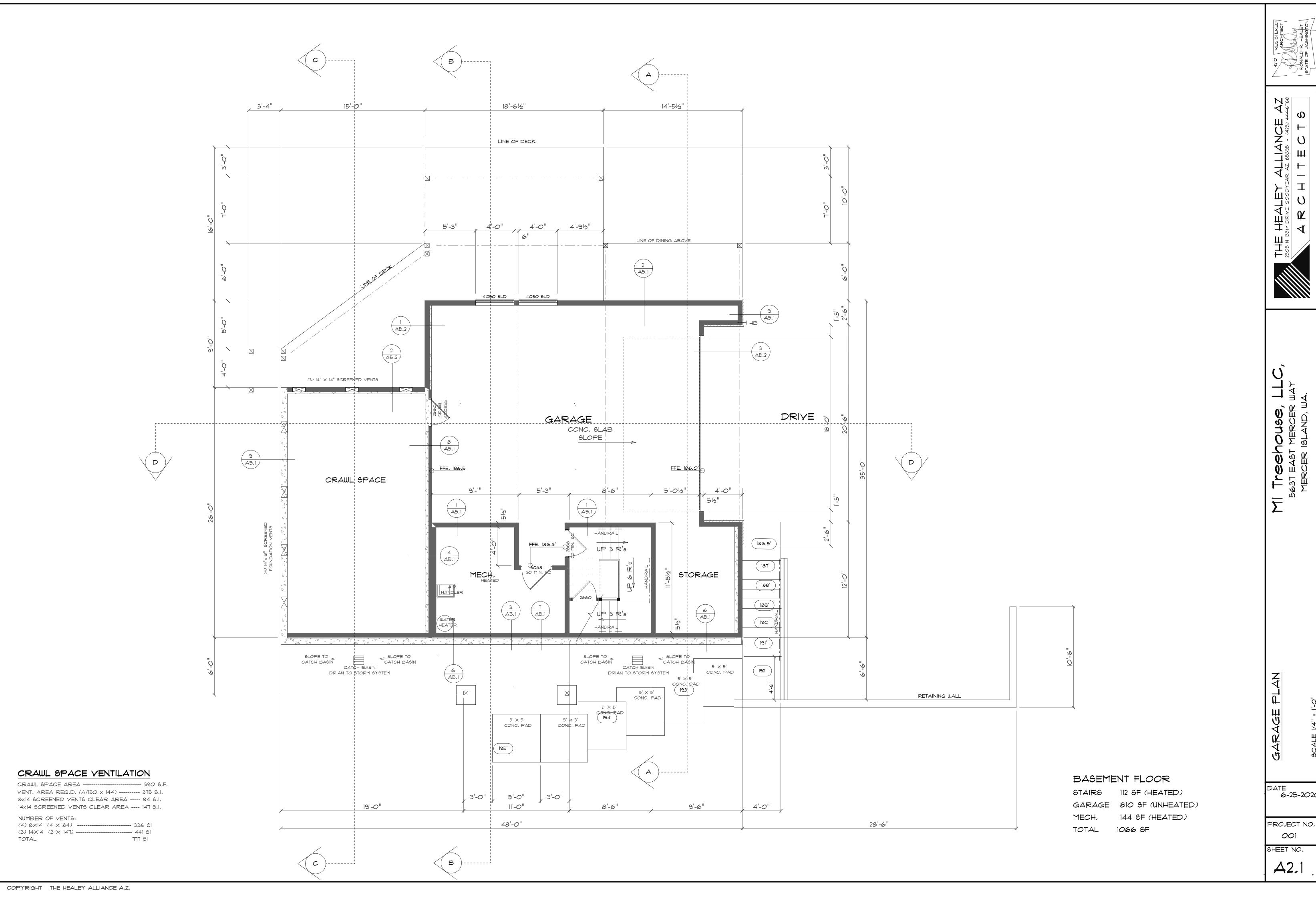
PHONE: 206.275.7605 www.mercergov.org	a service of eCityGov.net
MePlan	voicemail: (206) 275-7730
NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT TO PU	BLIC DISCLOSURE AS REQUIRED BY RCW 42.56
CONTACT INFORMATION:	
Applicant is to complete the following information. Applicant Contact information <i>prior</i> to permit issuance:	Applicant Contact information <i>post</i> permit issuance:
Сору>	
	Name: MI Treehouse LLC, Bill Summers
Address: PO Box 261, Medina WA. 98039	Address: PO Box 261, Medina WA. 98039
Phone: (425) 761-5460	Phone: (425) 761-5460
Email: bill@summersdevelopment.com	Email: bill@summersdevelopment.com
REQUIRED SPECIAL INSPECTIONS / STRUCTU	
It is the Engineer of Record's responsibility to specify all required Sp. The owner is responsible for hiring an approved private Special Insp. Inspectors (except Geotechnical) must be WABO certified. When Special Inspection or Structural Observation is required, the relative Inspection. Note: Inspection by the City Inspector is required in additional below. Do not cover or conceal any work prior to the City inspection.	port shall be submitted to the City Building Inspector prior to the City ition to the Special Inspection or Structural Observation indicated
STRUCTURAL OBSERVATION BY ENGINEER OF RECORD (EOR):	
	any: Stoney Point Engineering Phone: (425) 644-9500
General Conformance to Construction Documents	Other:
SOILS / GEOTECHNICAL: Special Inspector: Compa	any:Phone:
Erosion control measures	Subsurface drainage placement
 ☐ Shoring installation and monitoring ☐ Observe and monitor excavation 	☐ Verify fill material and compaction☐ Rockery installation
Verification of soil bearingOther:	☐ Pile placement (auger cast/driven pile) ☐ Other:
REINFORCED CONCRETE:	Other.
	any: Cascade Testing Laboratories Phone: (206) 525-6700
Concrete strength	
Reinforcing steel and concrete placementShotcrete placement	
Other:	
STRUCTURAL STEEL: (AISC 360, Chapter N)	DI.
<u> </u>	any:Phone: Moment Frame construction
·	Other:
STRUCTURAL MASONRY:	
Special Inspector: Compa	any:Phone: Glass unit masonry installation
Masonry unit strength	☐ Wall panel and veneer installation
☐ Other: ☐ Other:	Other: Other:
WOOD: Special Inspector /	
	any:Phone:
☐ Lateral resisting system construction☐ Other:	☐ High strength diaphragm construction☐ Other:
OTHER SPECIAL INSPECTIONS:	
<u> </u>	any: Cascade Testing Laboratories Phone: 206-525-6700
Epoxy grout installationsExpansion anchor installations	☐ Stucco installation☐ Infiltration System
Other post installed anchors	Exterior Insulation Finish System (EIFS) installation
☐ Alternative construction methods: ☐ Alternative construction materials:	Other: Other:
DEFERRED SUBMITTALS:	
	awings for submittal to the City for review and approval prior to item
Connector plate wood trusses	Post tension layout
Metal joist / metal trusses	Exterior cladding
Premanufactured structures (stairs, etc.)Precast concrete elements	☐ Window wall / curtain wall construction☐ Other:
Other:	Other:
ENERGY CODE COMPLIANCE INFORMATION	
Indicate where the following information is located in the drawing set. Prescriptive Compliance (RECPC) Form into the drawing set.	set. Alternatively, incorporate or include the Residential Energy Code
Sheet:	
✓ Building envelope: wsec Table 402.1.1 A 1.0	Air Leakage Testing. IRC Section R402.4.1.2 WA Amendments
(include U-factors, insulation and moisture control)	Provide air leakage test report verifying air leakage rate
Whole house ventilation: IRC Section M1507 WA Amended (include ventilation option and duct sizing if applicable)	does not to exceed 5 air changes per hour. Duct Leakage Testing. WSEC R403.2.2
Energy Credit Information: wsec Table 406.2	Postconstruction Test. WSEC R403.2.2.1
(include specific, written requirements) RECPC Form Information:	Rough-in Test. wsec R403.2.2.3

	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
BE COMPLETED BY	approval from the City of Mercer Island. Approved plans must be kept on site and maintained in good condition. Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including: Site Considerations Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including: Additional Fire Code Requirements Planning Requirements Noise Abatement Certification Access Road Requirements Water Service 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. Erosion 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 as shown on approved drawings shall be installed at tree dripline prior to start of any site work and must remain in place throughout the project. No trees shall be cut without a City of Mercer Island tree permit. Replacement trees must be a minimum of six feet tall at installation. They must be planted and approved prior to final inspection. For this project, N/A trees are authorized to be removed and replaced with N/A trees. This project appears to be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their website at http://www.fws.gov/pacific/eagle
	FIRE PROTECTION REQUIREMENTS: Separate Permits are required for ALL fire protection systems. For more information, see http://www.mercergov.org/Page.asp?NavID=2614
	□ Fire Sprinkler □ Monitored Household □ NFPA 13D Fire Alarm per NFPA 72 □ Plus □ Monitored Sprinkler □ NFPA 13R Water Flow Alarm
	Approved Fire Code Alternatives:
	□ FCA1 □ FCA3 □ FCA4
	□ FCA2 □ FCA4
ŀ	WATER SUPPLY REQUIREMENTS: ☐ Fire sprinkler design calculations must be provided prior to determining water supply system requirements.
BY DSG	 ☐ City Installation. ☐ Applicant Installation. Required Service Line Size: N/A Required Supply Line Size: N/A Required Meter Size: N/A (water main to meter) (water main to house) ☐ Abandonment of existing service and meter required at main. ☑ Pressure reducing valve required if pressure exceeds 80 psi. ☑ Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells or lake irrigation).
킑	□ Additional water supply requirements: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
E COIMIPLE I ED	☐ On site detention system required. ☐ Direct discharge into the lake. ☐ On site infiltration system required. ☐ No Storm Water permit required. ☐ As-built Utility drawings required. ☐ Connection to public storm drainage conveyance system req'd. ☐ Full Size drawings required. ☐ Other:
901	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.
1	APPROVED CODE ALTERNATIVES: Code alternatives must be Inspected. Refer to the Inspection Checklist
	CA1: CA2:
	SURVEY REQUIREMENTS (The following survey information must be submitted when checked): Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation Inspection. A property survey may be required to verify setbacks and in some cases buildings must be surveyed onto the lot. The City reserves the right to request an impervious area survey at any time prior to issuance of Certificate of Occupancy. Surveyor:Phone:
	Building height survey
	40 percent of the dwelling's exterior walls are structurally altered. Contact the Building Inspector at (206) 275-7730. Civil / Drainage LUP / Setback requirements GEOTECHNICAL INFORMATION:
	Land clearing, grading, filling and foundation work within geologic hazard areas is NOT PERMITTED between October 1 and April 1 without an approved Seasonal Development Limitation Waiver.
020	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
COMPLETED BY	SEASONAL DEVELOPMENT LIMITATION RESTRICTION: Applies (Geologic Hazard area). Grading not permitted between October 1 through April 1. Waiver approved. Grading and excavation permitted subject to all conditions noted in Seasonal Development Limitation Waiver Permit.
BE COM	Permit number Approved by Date

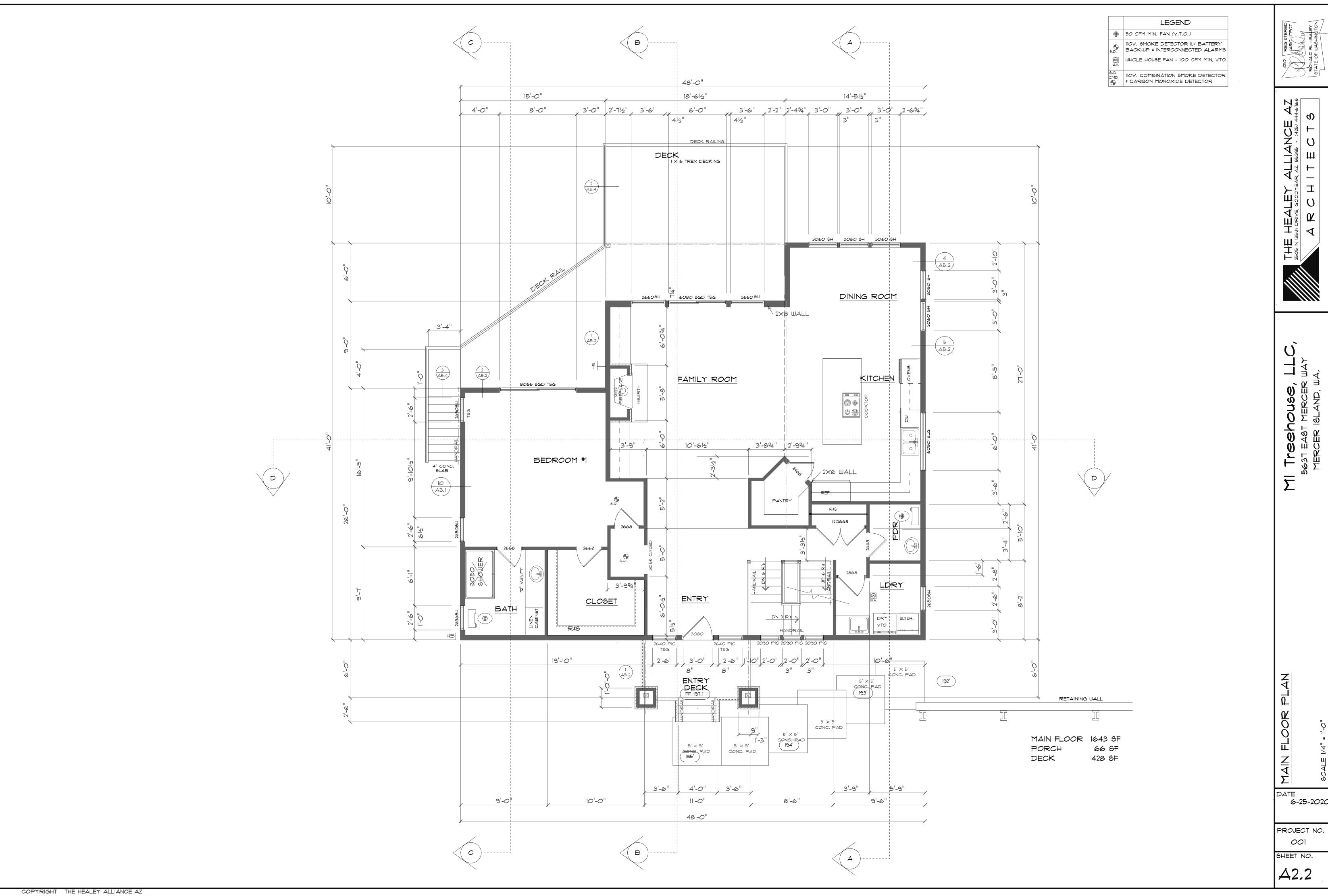
It is the applicant's response www.MyBuildingPerm	it.com or by calling the Inspection Hotline at (206)	ions appropriate for the project. Request inspection 275-7730. Allow at least 24 hours (48 hours for Re			
Inspector shall initia applicants responsib	nspection. Be specific as to type of inspection. I and date appropriate inspection only if approved will to apply for and obtain all City of Mercer Islam order of typical sequencing)	I. Note: <i>Items marked with an "*" require a separa</i> nd permits.	te permit. It is the		
Inspector Date Ap	proved Pre-construction Meeting to Review Conditions	of Permit Approval.			
*		• •			
	Sewer disconnect and cap. If applicable, separat				
*	Right-of-way use or work / easement, material of separate ROW permit required	lelivery, etc. If applicable,			
	Land clearing, grading and demolition			Geen	
	Temporary power Pilings / Shotcrete. If applicable, provide	de survey letter		A No.	
	(property line); Geotechnical Engineer / Special reports of inspections (pile and shoring installati	•		UP Is ha	
	ootings, setbacks, UFER ground. If applicable, provide survey letter				
	(building height and setbacks); Special Inspector (soil bearing capacity, compaction, earthwork, p			nspe I app	
	Foundation walls / concrete columns	, ,		FICATE OF OCCUPANC after all required inspections have been performed and approved.	
	Roof and footing drains Foundation damproofing			TE equi	
**	Storm drainage, including (but not limited to):Connections to storm	Area drains		all re	
	main in ROW	Conveyance piping / cleanouts		FIC offer pe	
	Detention systemsInfiltration systems	Storm drain in ROW Control structures / manholes			
	Catch basins including	Pump systems		ERT	
*	oil-water separator tees Water Service	Retaining wall drainage		O	
	Water Supply Water as-built drawings				
*	Side sewer installation, including (but not limited	d to):			
	 Connections to side sewer main 	Back-flow valves Grinder pump systems		\mathcal{S}	
	Connections to existing	Sewer manholes		$\overline{\Phi}$	
	side sewer Driveway / Access road				
	Underslab electrical / mechanical / plumbing Underslab insulation / vapor barrier / reinforcing	5			
	Underfloor framing			\subseteq	
	Nailing-Roof sheathing. If applicable, provide Speletter for lateral wood inspection.	ecial Inspection		2	
	Nailing-Exterior wall and Shearwall. If applicable Inspection letter for lateral wood inspection.	, provide Special		0)	
	Rough hydronic installation			=	
*	Rough electric installation Rough fire alarm (wiring inspection)			\Box	
	Rough plumbing installation (DWV, water)				
	Rough mechanical Gas Piping				
**	Rough fire sprinkler / hydrostatic and flow (buck Framing and glazing. If applicable, provide Speci				
	lateral wood inspection, welding epoxy anchors, etc.				
	Masonry construction (fireplace / walls / veneer Insulation installation	/ etc.)		(1)	
	Stucco (paper and lath) Shower pan (or tub)			S	
	Miscellaneous			\supset	
	Code Alternative CA1: Code Alternative CA2:			O	
	Impact Fees Paid (If applicable)				
	Final Inspection: Tree Restoration		п	Θ	
	Final Inspection: Fire protection, including (but in Sprinkler)	not limited to): • Fuel Tank Installation			
	 Access Road Fire Code Alternatives (see below) 	Fire Extinguishing System Fire Alarm System		-	
	FCA1:	FCA3:			
	FCA2: Final Inspection: Water supply protection, include	FCA4: ding (but not limited to)		2	
	backflow devices for: • Waterfront property	Well water on property			
_	• Fire / lawn sprinkler	Boiler		5	
	Final Inspection: Site and utility: includes landsc restoration complete and as-built drawings read		TS		
	Final Inspection: Building, including electrical / r	mechanical / plumbing. If	ТВ	AN AN	
	applicable, provide closeout (summary) letters f Inspectors, Geotechnical Engineer, and exterior	· · · · · · · · · · · · · · · · · · ·		ΔZ	
	RARY CERTIFICATE OF OCCUPAN				
Applicant option. Addit	tional fees will be required and must be approved	prior to occupancy. TCO requires tree plantings be	completed.	KEPT MES	
				BE K.	
Approved	FOLUDED CITY INCDECTIONS.	Start Date End Date		ALI MP	
	EQUIRED CITY INSPECTIONS: ntact to arrange the inspection.			MUN AT,	
Required Inspection(s	Carre	tact: Phone:	Scheduling:	111	
				Z N O	
				DRAWINGS ILDING SITE FOR CODE	
IMPACT FEES:		PLAN REVIEW APPROVALS:			
If applicable.		Not all review disciplines may be required to rev	iew the documents.	ROVED THE BI	
☐ Impact fees a	oply and are due <i>prior</i> to Final Inspection or on			PRO TH	

___, whichever occurs first.

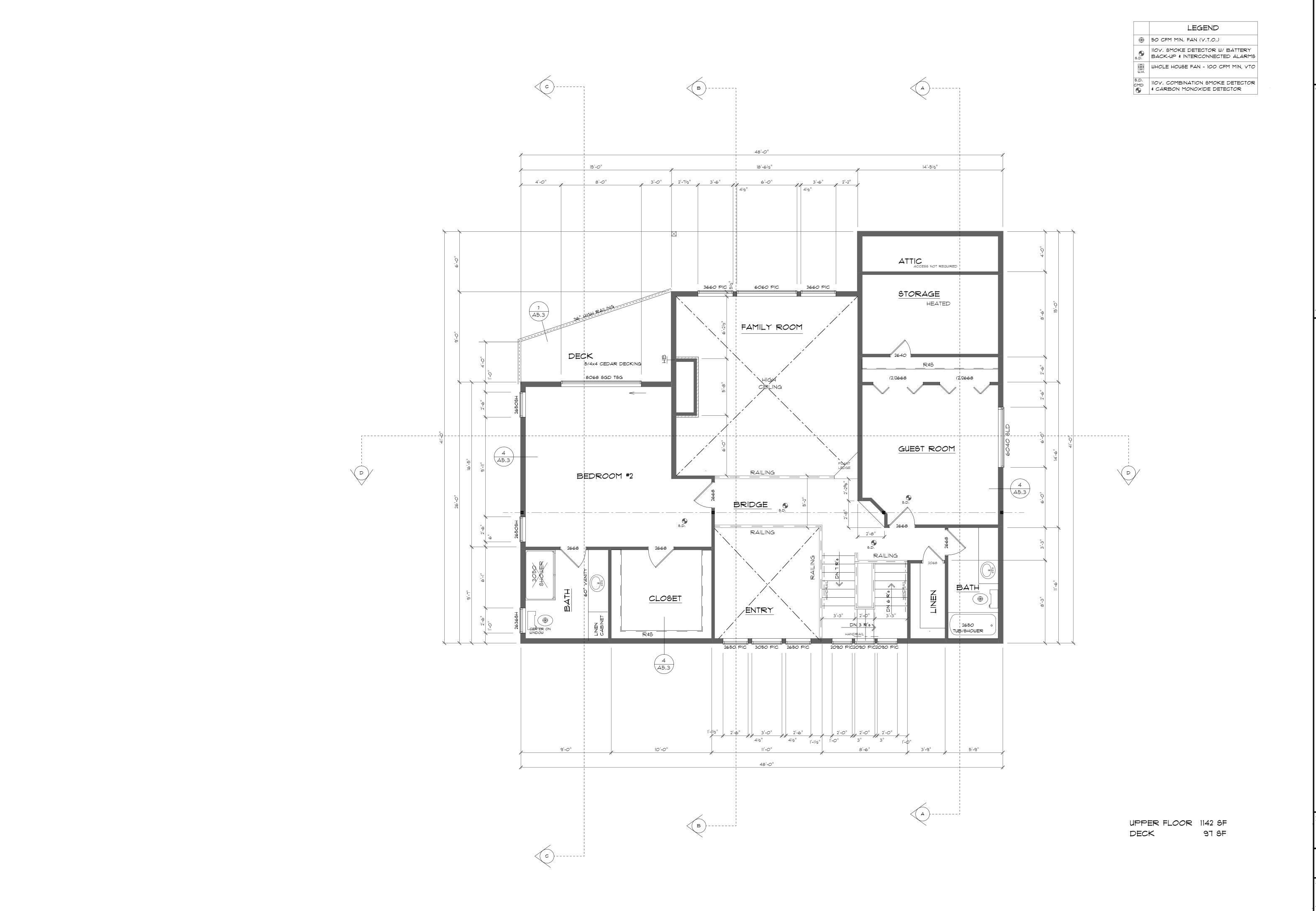
(if incorporated within drawing set)
http://www.mercergov.org/files/2012ResidentialEnergyCalcForm.pdf



6-25-2020



6-25-2020



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A210 REGISTERED
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THE HEALEY ALLIANCE AZ SOS N 135th DRIVE, GOODYEAR, AZ, 85395 - (425) 444-6768

ARCHITECTS

11 Treehouse, LLC, 5637 EAST MERCER WAY MERCER ISLAND, WA.

ER FLOOR PLAN

DATE 6-25-2020

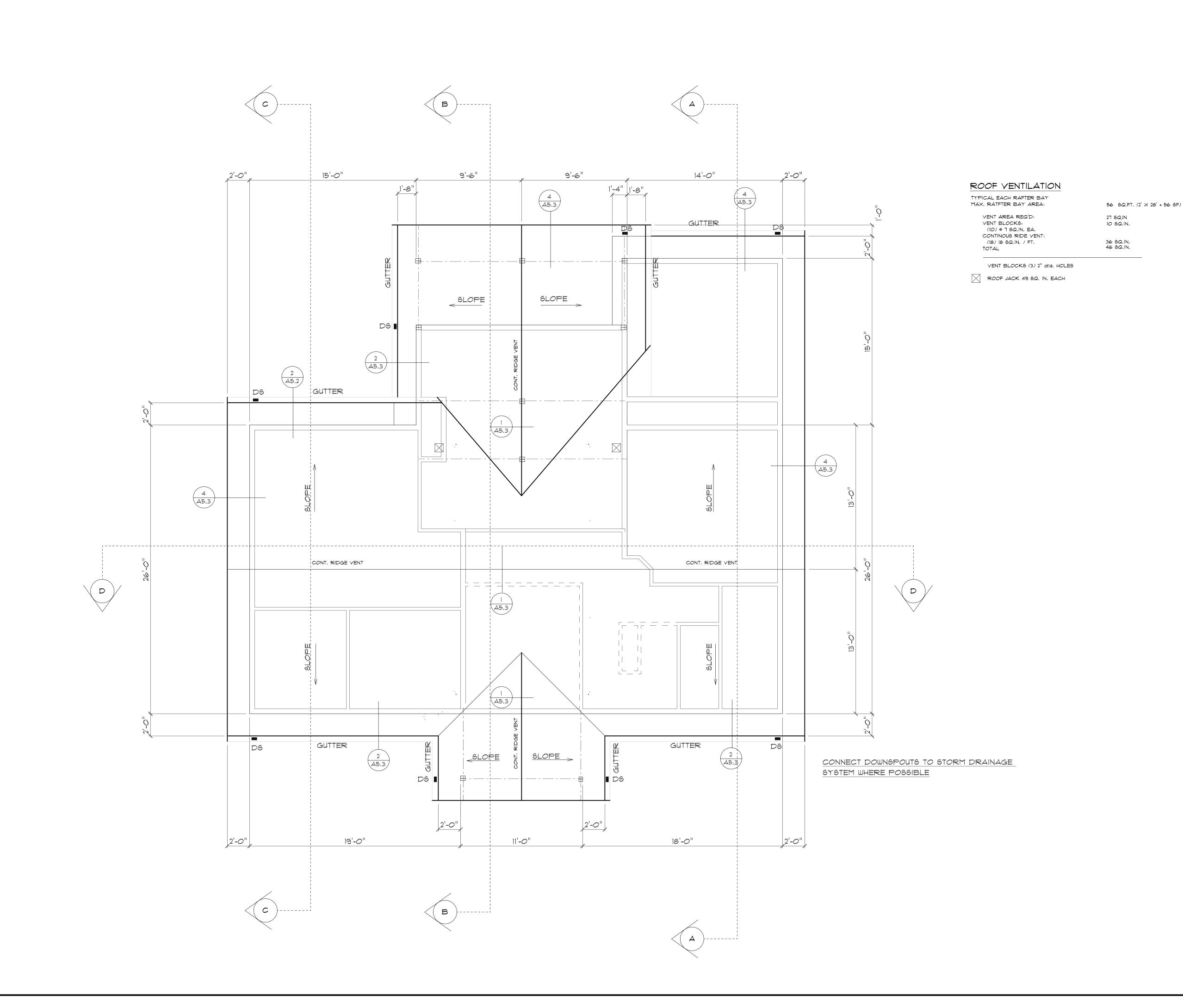
PROJECT NO.

SHEET NO.

PROJECT NO.

SHEET NO.

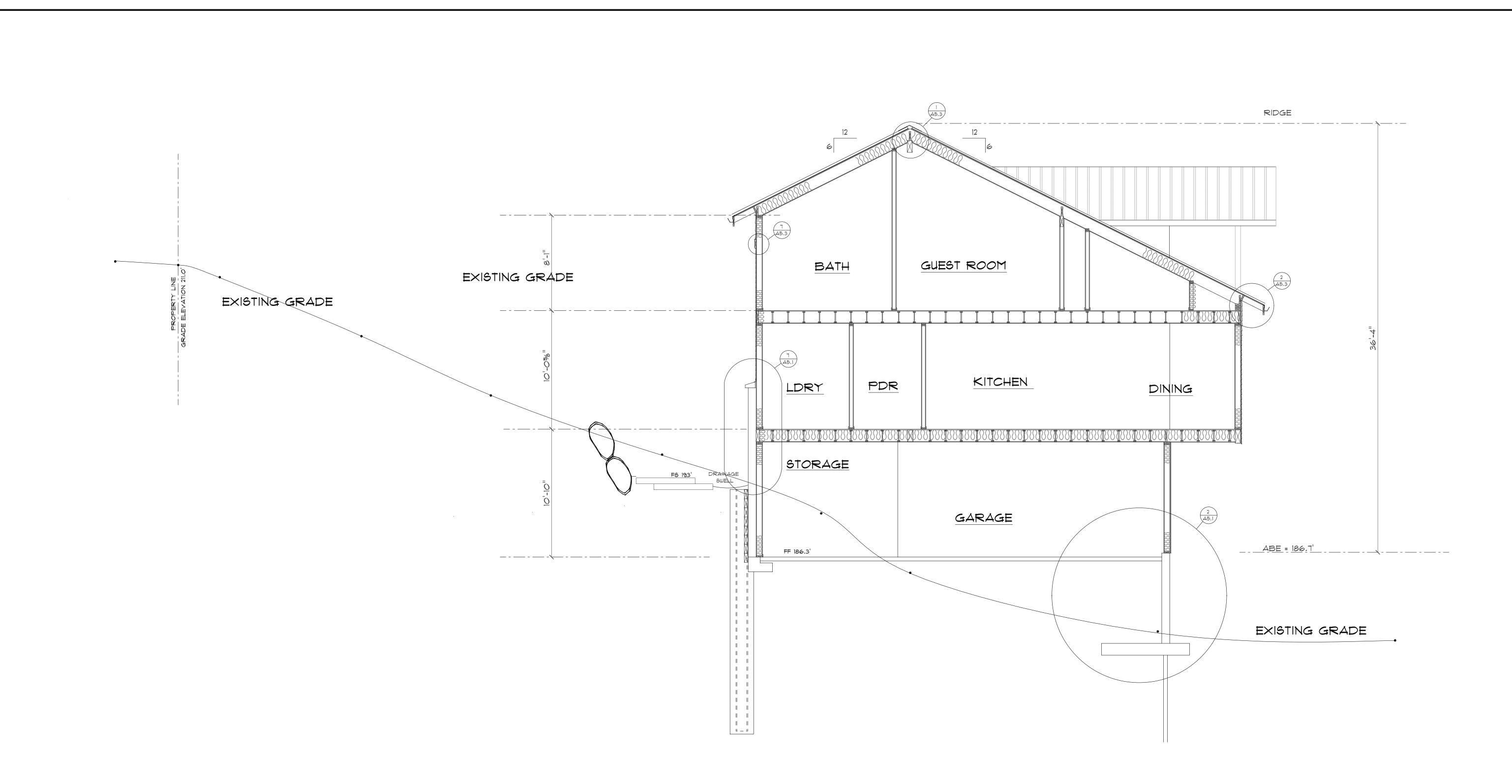
A2,4

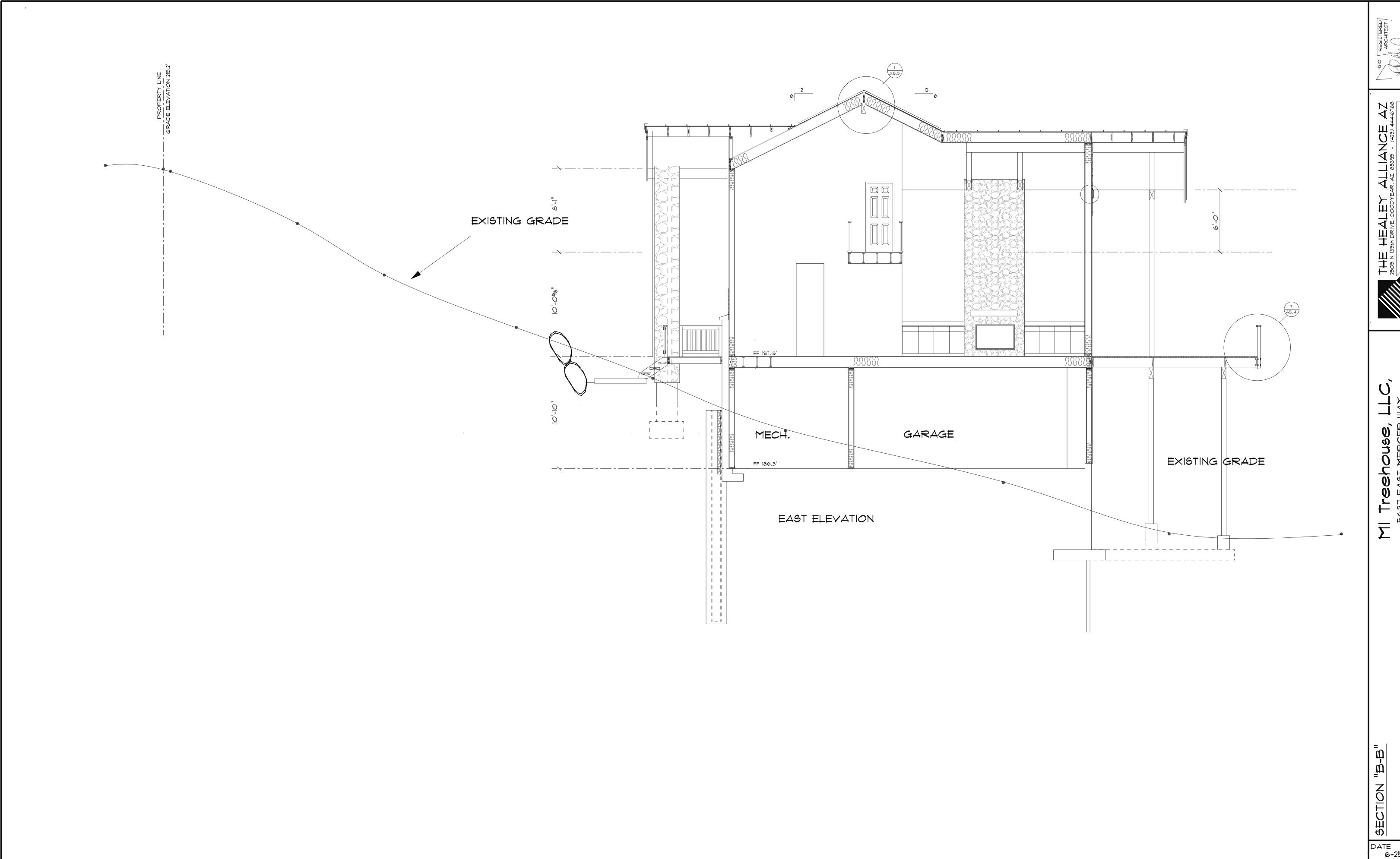


DATE 6-25-2020

PROJECT NO.

SHEET NO.





158 TE8

SECTION "B-B"

DATE 6-25-2020

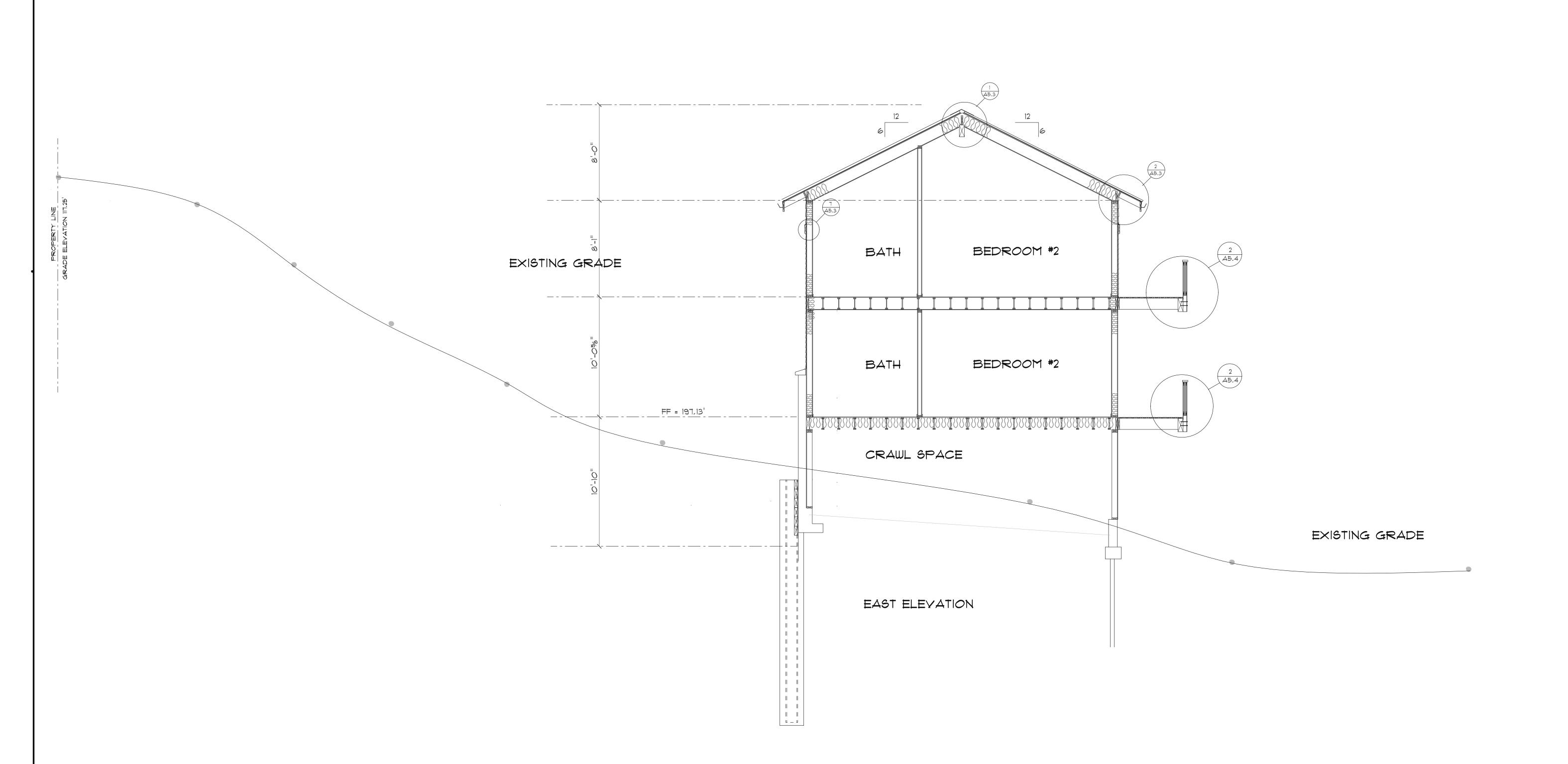
PROJECT NO. 001

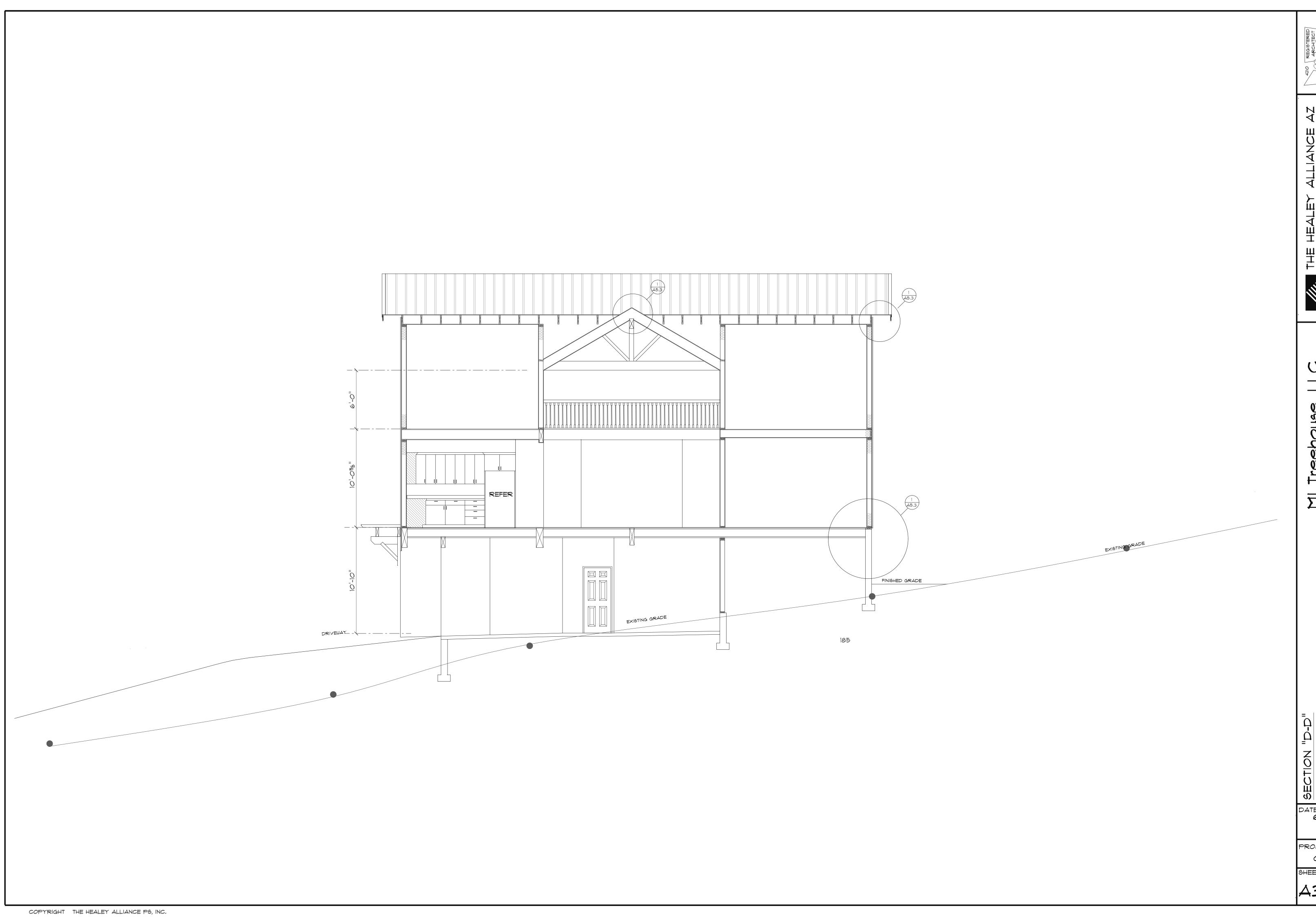
SHEET NO.

PROJECT NO.

6HEET NO. **43.3**

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APCHITECT
ARCHITECT
ARCHITECT
RONALD R. HEALEIT
STATE OF WASHINGTON

THE HEALEY ALLIANCE ASSOS - (425) 444-

SO, LLC,

Treehouse,

SECTION "D-D"

DATE 6-25-2020

PROJECT NO.

энеет NO.

43.4

I Treehouse, LLC, 5631 EAST MERCER WAY

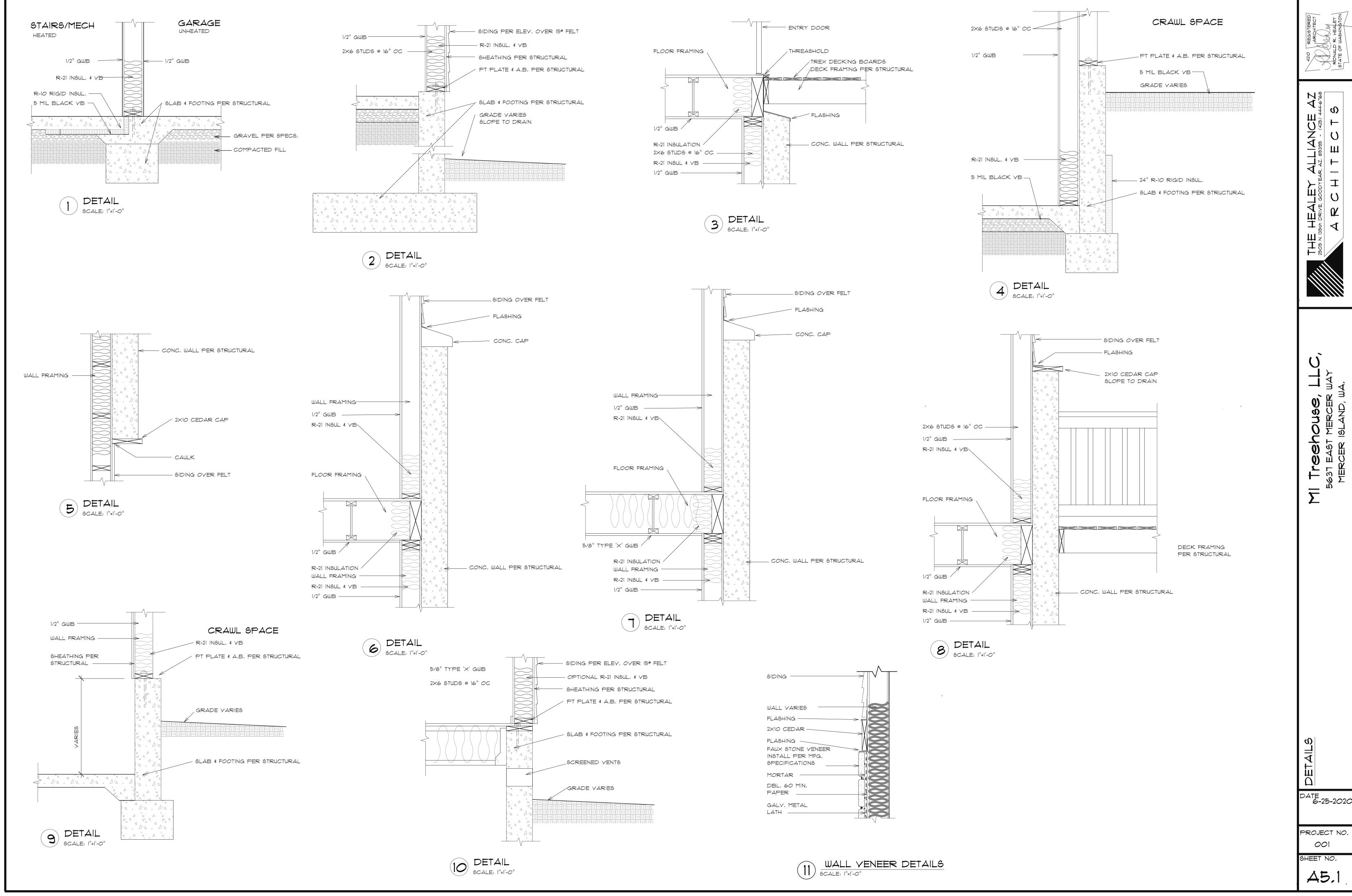
UTH & EAST ELAYATIONS

DATE 6-25-2020

PROJECT NO.

SHEET NO.





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1/2" GWB —

R-30 INSUL,-

SUBFLOOR -

5/8" TYPE 'X' GWB -

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

1/2" GWB ---

2×6 STUDS @ 16" OC

T & G CEDAR SOFFIT

SIDING OVER 15# FELT

- SIDING OVER 15# FELT

CEDAR 2×4 @ 12" OC

CEDAR 2×4 @ 12" OC

DETAIL SCALE: 1"=1'-0" CEDAR 4×12

CEDAR 4×12

4X6 CEDAR

1/2" GALV. LAG BOLTS

4X4 CEDAR

2X6 CEDAR BACKER

R-21 INSUL, & YB

/ FLASHING

STRUCTURAL SHTG

HE HEALEY ALLIANCE AZ
OB N 135th DRIVE, GOODYEAR, AZ. 85395 - (425) 444-6768
ARCHITECTS



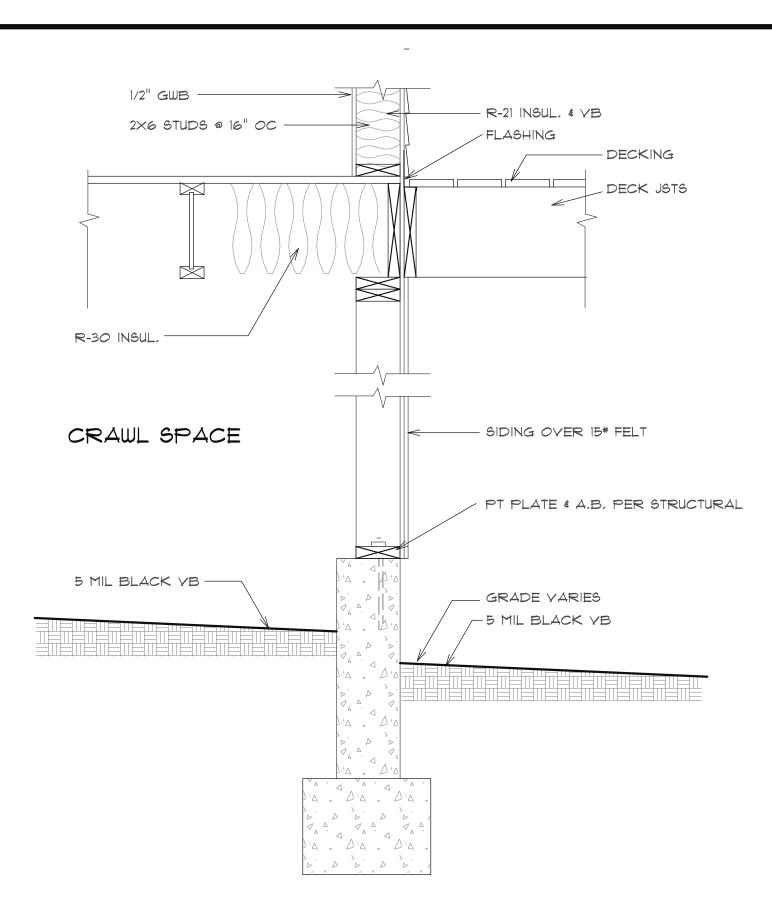


Ω | ATE 6-25-2020

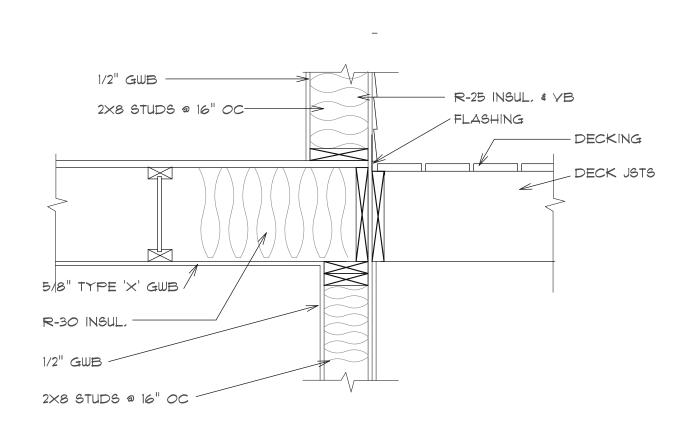
PROJECT NO.

SHEET NO. 45.2

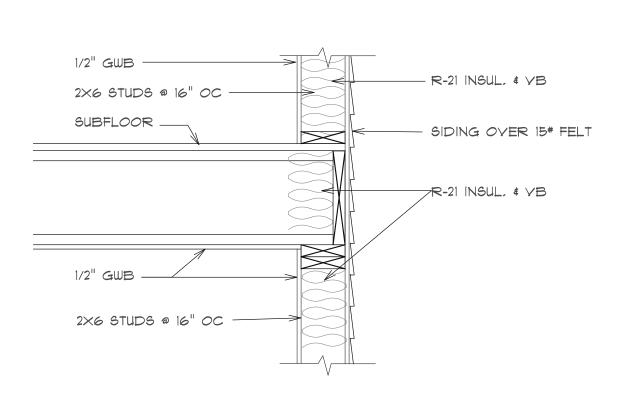
001













1/2" GWB ---

SUBFLOOR ___

R-30 INSUL. -

1/2" GWB —

2×6 STUDS @ 16" OC -

SHEATHING PER

DETAIL

STRUCTURAL -

2×6 STUDS @ 16" OC -

R-21 INSUL, \$ YB

- SIDING OVER 15# FELT

PT PLATE & A.B. PER STRUCTURAL

- SLAB & FOOTING PER STRUCTURAL

R-21 INSUL, & YB

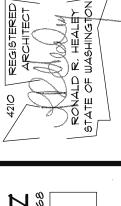
GRADE YARIES

-5 MIL BLACK YB

- DECKING

DECK JSTS





-2x6 STUDS @ 16" O.C.

-2x6 STUDS @ 16" O.C. R-21 INSULATION

-1/2" G.W.B.

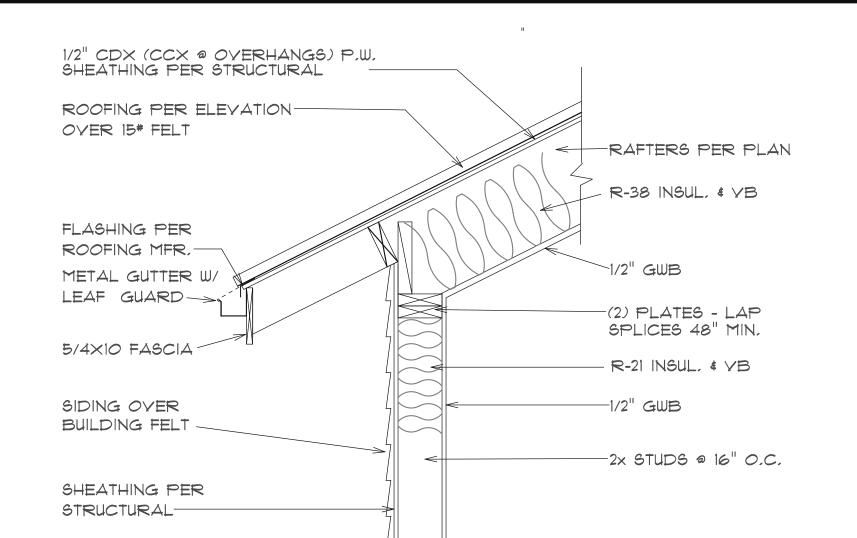
~1/2" G.W.B.

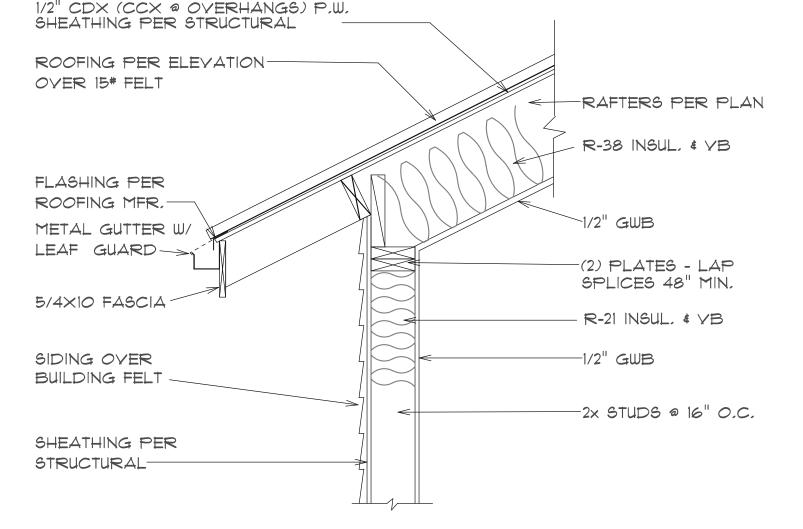
-1/2" G.W.B.

DATE **6-25-2020**

PROJECT NO. 001

SHEET NO. A-5.3





2 DE 1 -1 -0" DETAIL

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

1/2" CDX (CCX @ OYERHANGS) P.W. SHEATHING PER STRUCTURAL

ROOFING PER ELEVATION-

OVER 15# FELT

METAL GUTTER W/

LEAF GUARD

5/4×10 FASCIA-

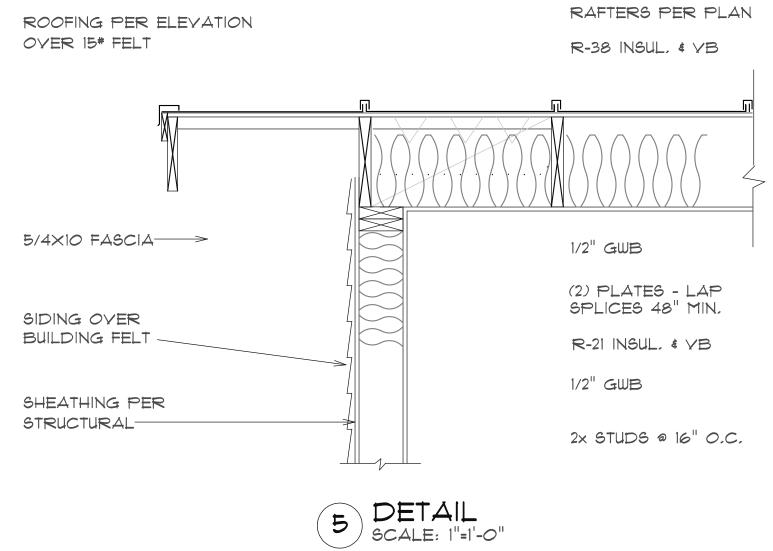
DETAIL SCALE: 1"=1'-0"



DETAIL

SCALE: 1"=1'-0"

1/2" GWB

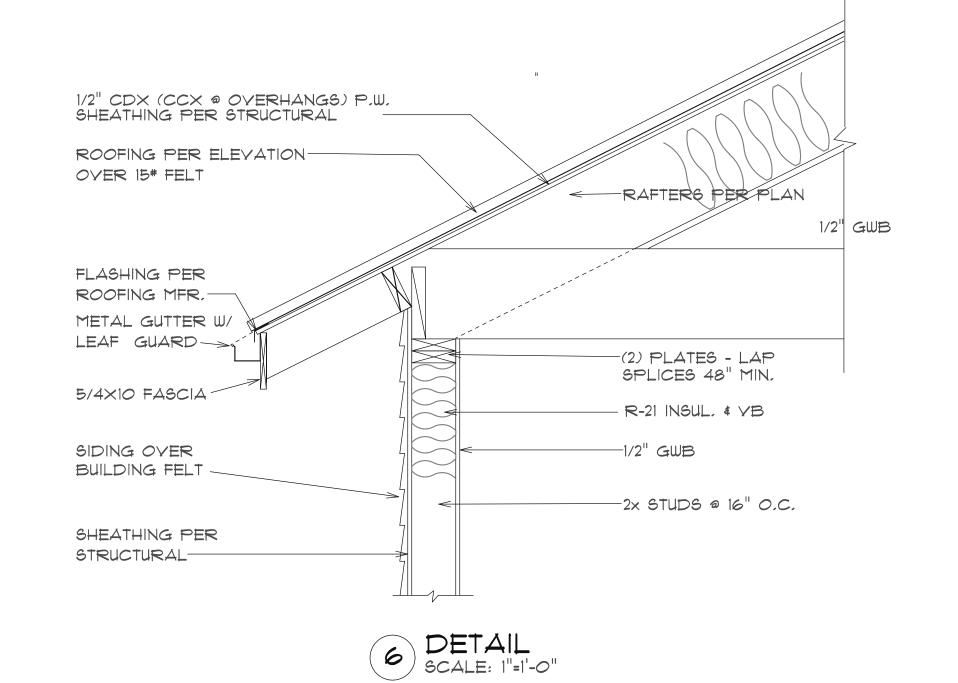


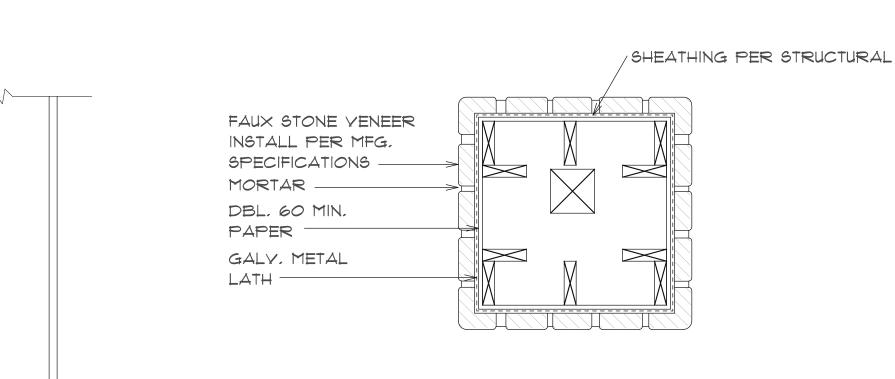
/CONTINUOUS RIDGE YENT /2X10 BLOCKING

/TYP, ROOF OVER 15# FELT

RAFTER & SHEATHING PER PLAN

-BEAM PER STRUCTURAL





SIDING PER PLAN

OYER BLDG FELT-

2× RIM JOIST-

-RAFTERS PER PLAN

1x4 T&G CEDAR

SHEATHING PER PLAN-

SHEARWLL PER PLAN-

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

DETAIL SCALE: 1"=1'-0"

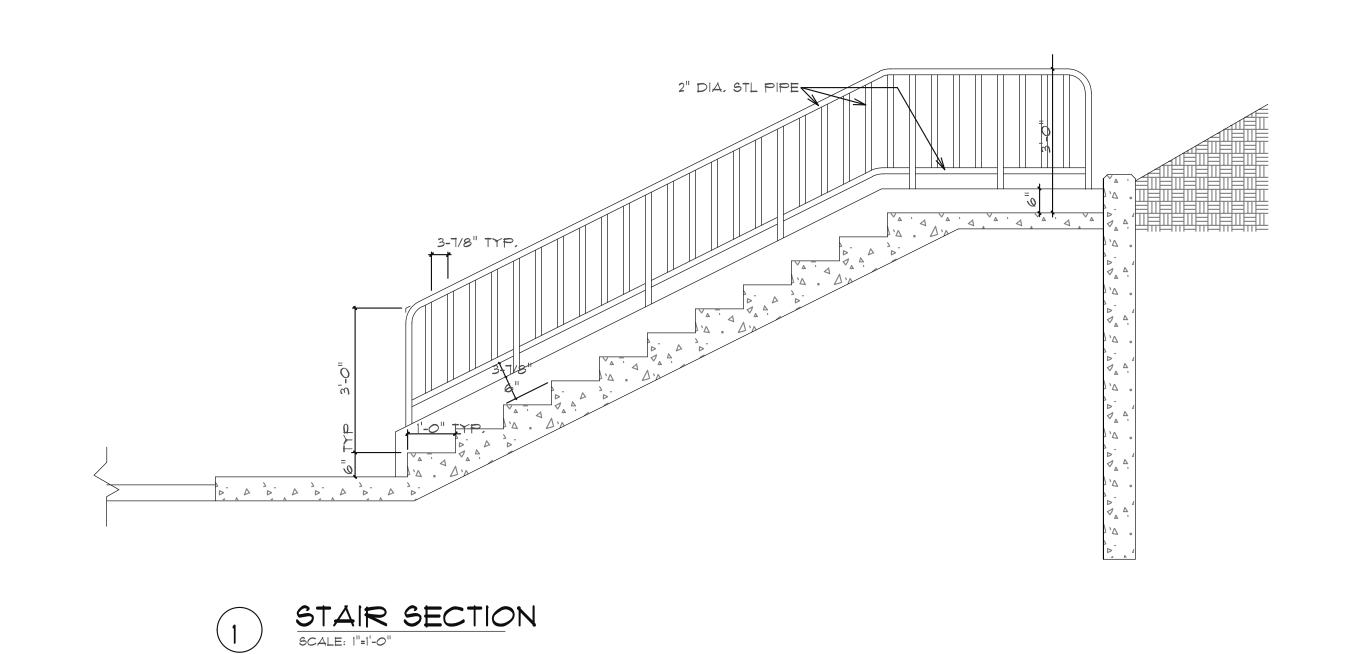
DETAIL
SCALE: 1"=1'-0"

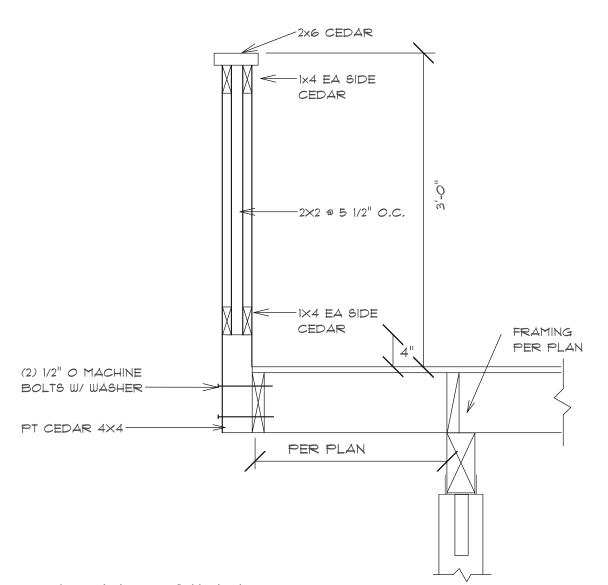
DETAIL
SCALE: 1"=1'-0"

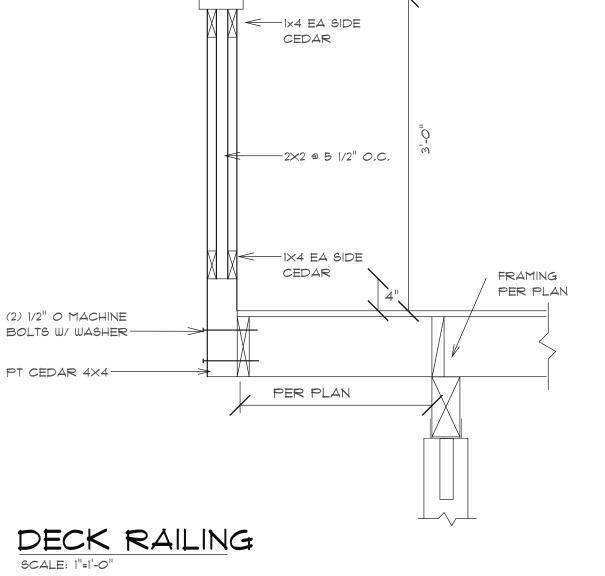
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PROJECT NO.

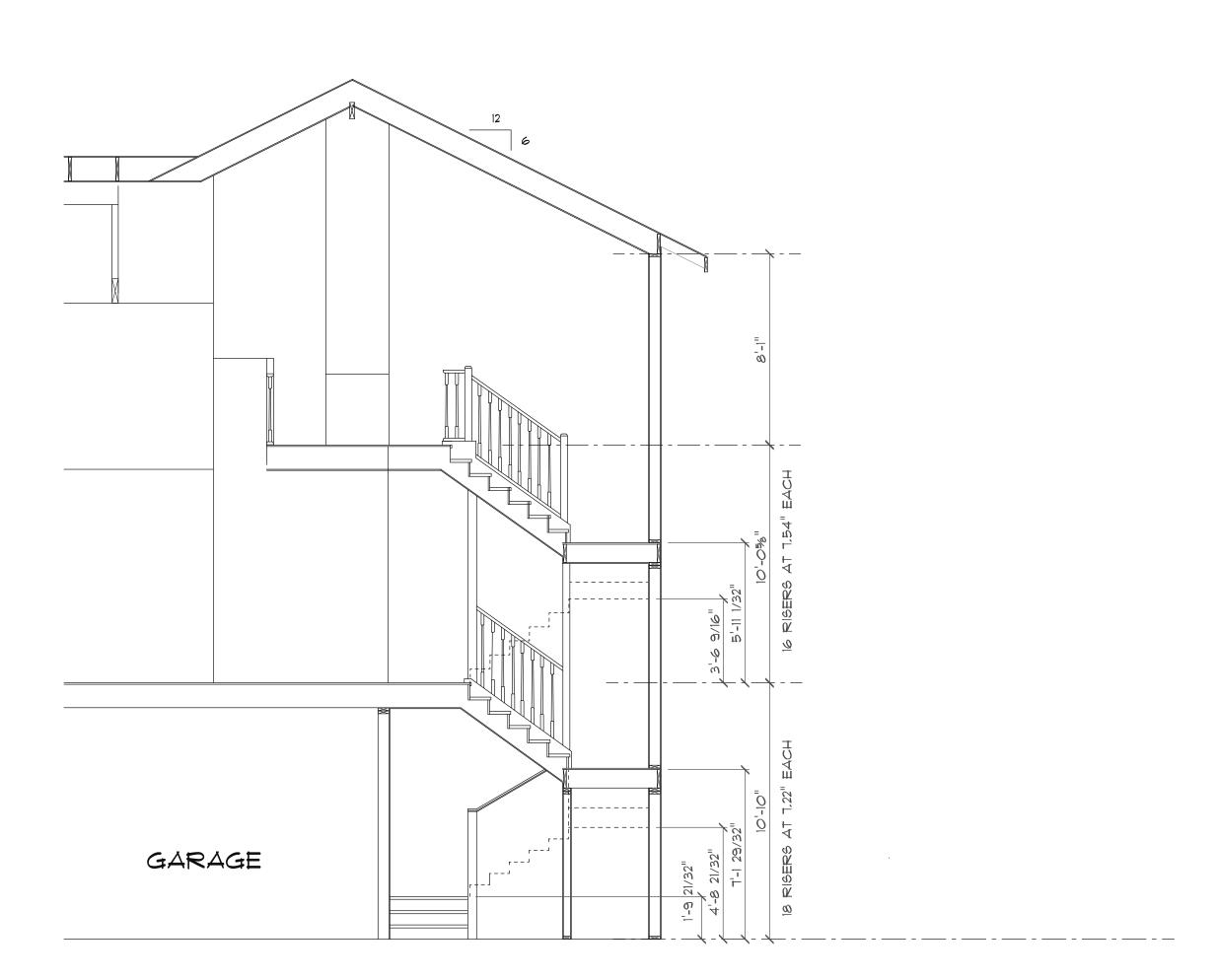
SHEET NO.







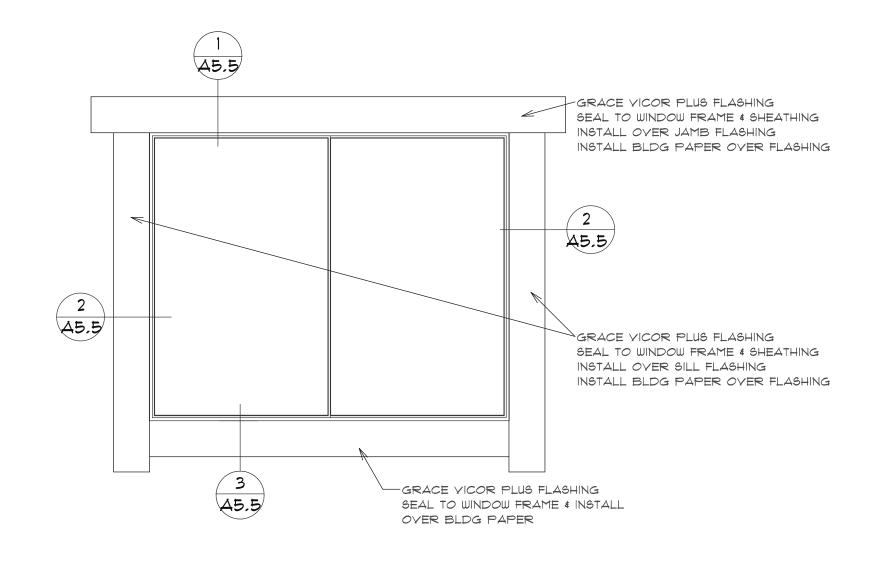




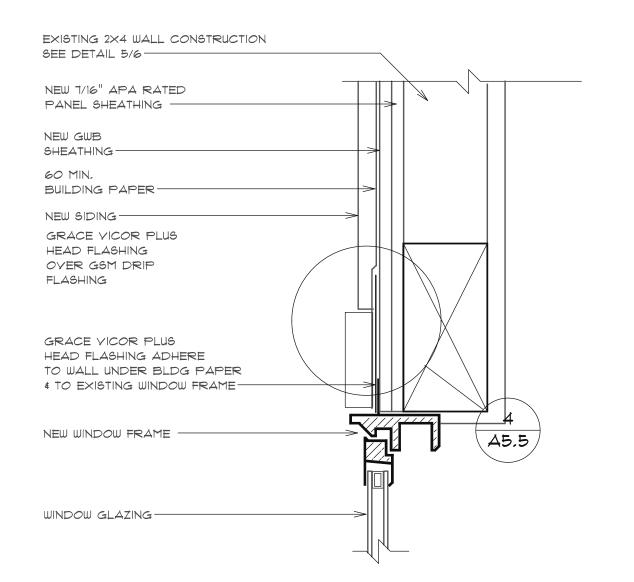


PROJECT NO.

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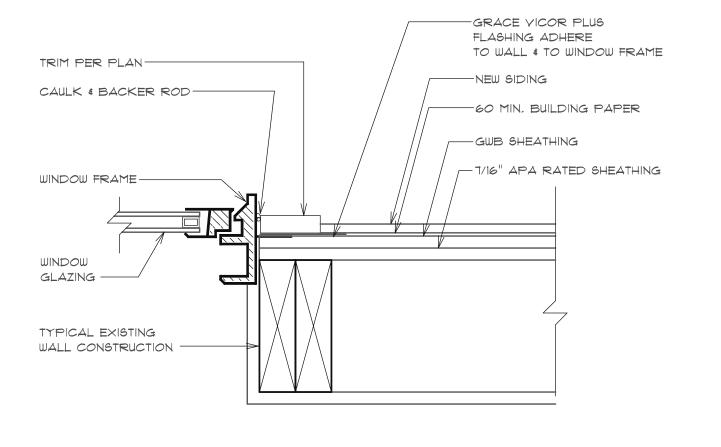


WINDOW FLASHING FOR EXISTING WINDOWS



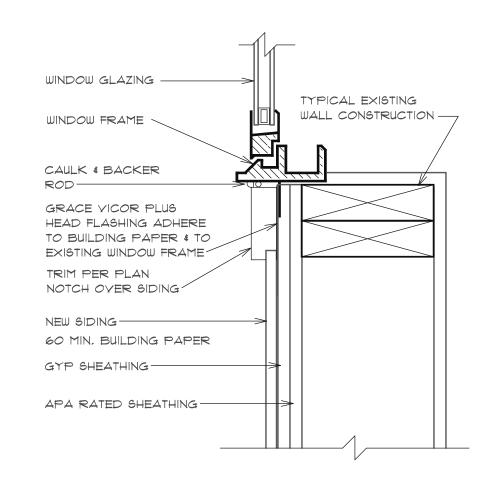
DETAIL #1

6CALE 3" = 1'-0"



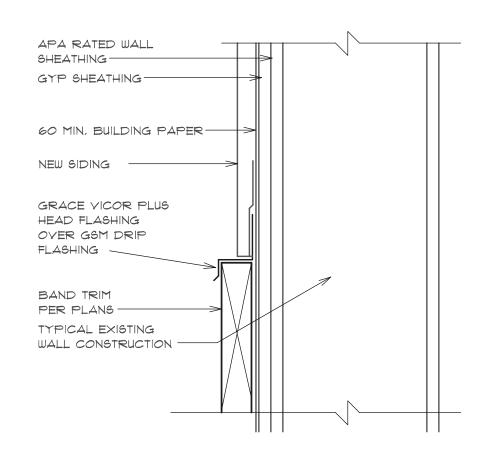
DETAIL #2

SCALE 3" = 1'-0"



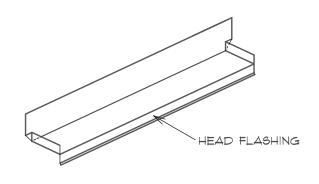
DETAIL #3

6CALE 3" = 1'-0"



DETAIL #4

SCALE 3" = 1'-0"



DETAIL #5

SCALE 1" = 1'-0"

WINDOW SCHEDULE

LOCATION	TYPE	QTY	SIZE	U-FACTOR	AREA	
DINING ROOM	SH	5	3060	0.24	90	
KITCHEN	SLD	1	6050	0.24	30	
LAUNDRY	SH	1	2650	0.24	12.5	
ENTRY	PIC	2	2640	0.22	20	
BATH #1	SH	1	2636	0.24	8.8	
BDRM #I	SH	2	2650	0.24	25	FALL PROTECTION REQUIRED
BDRM #I	SGD	1	8068	0.24	53.3	
FAMILY ROOM	SH	2	3660	0.24	42	
FAMILY ROOM	SGD	1	6080	0.24	48	
GUEST ROOM	SLD	1	6040	0.24	24	
STAIRS	PIC	3	2090	0.22	54	
ENTRY	PIC	2	2650	0.22	25	
ENTRY	PIC	1	3050	0.22	15	
BATH #2	SH	1	2636	0.24	8.8	
BDRM #2	SH	2	265	0.24	25	FALL PROTECTION REQUIRED
BDRM #2	SGD	1	8068	0.24	53.3	
FAMILY ROOM	PIC	2	3660	0.22	42	
FAMILY ROOM	PIC	1	6060	0.22	36	

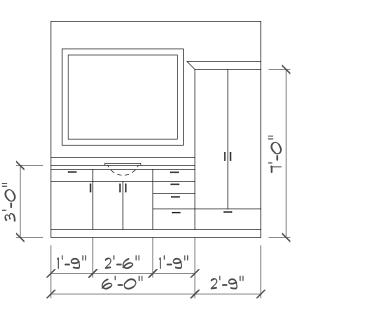
WINDOWS: MILGARD TUSCANY SERIES TRIPLE GLAZED

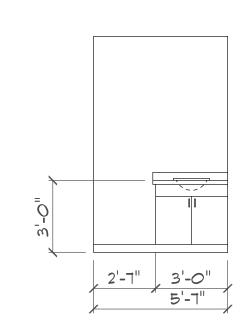
DATE 6-25-2020

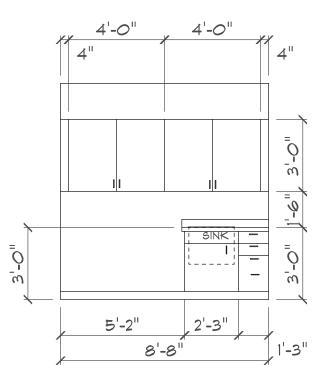
PROJECT NO.

SHEET NO.

A-6.1



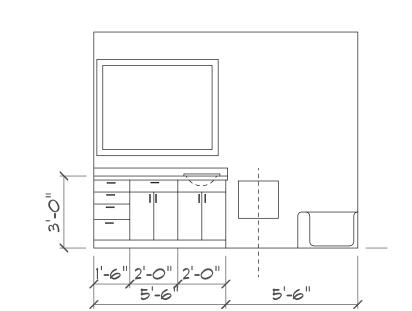




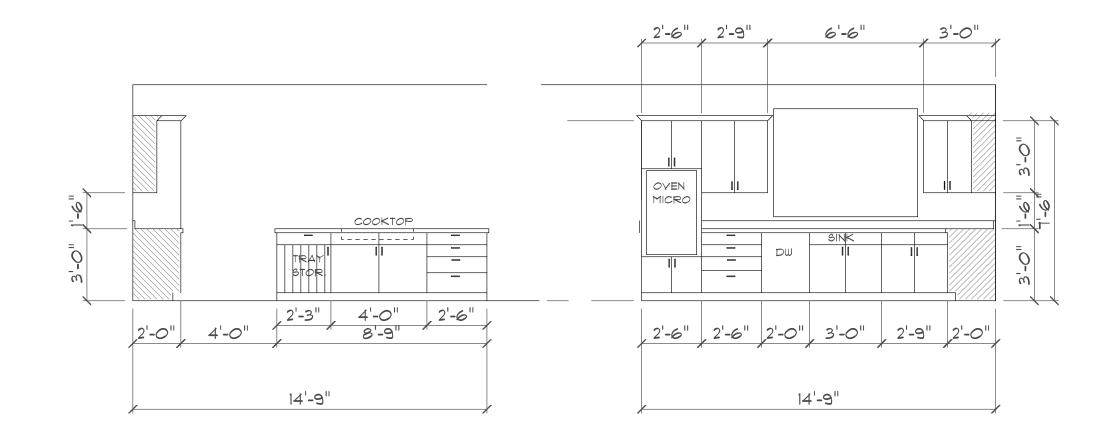
BATH CABINETS BDRM #2 \$ #3

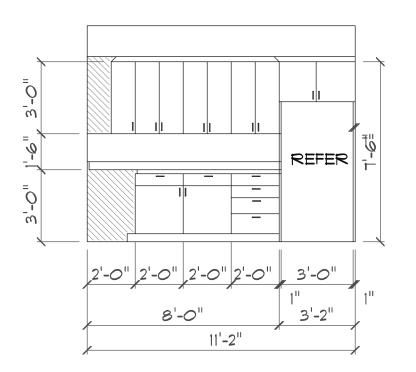
POWDER ROOM

LAUNDRY ROOM



BATH CABINETS BDRM #2 # #3





BATH CABINETS BDRM #2 \$ #3

ELECTRICAL

110 v direct connection

Recessed directional

Outlet 110 gfi wp

Recessed can

Surface mount

Wall mount

outlet gfi

outlet

switch

Wall Mount Flood

Telephone outlet

220v Direct Wire

smoke detector

split receptacle

switch 3 way

SYMBOL

-

<u>Q</u>D

--

 \Diamond

GFI

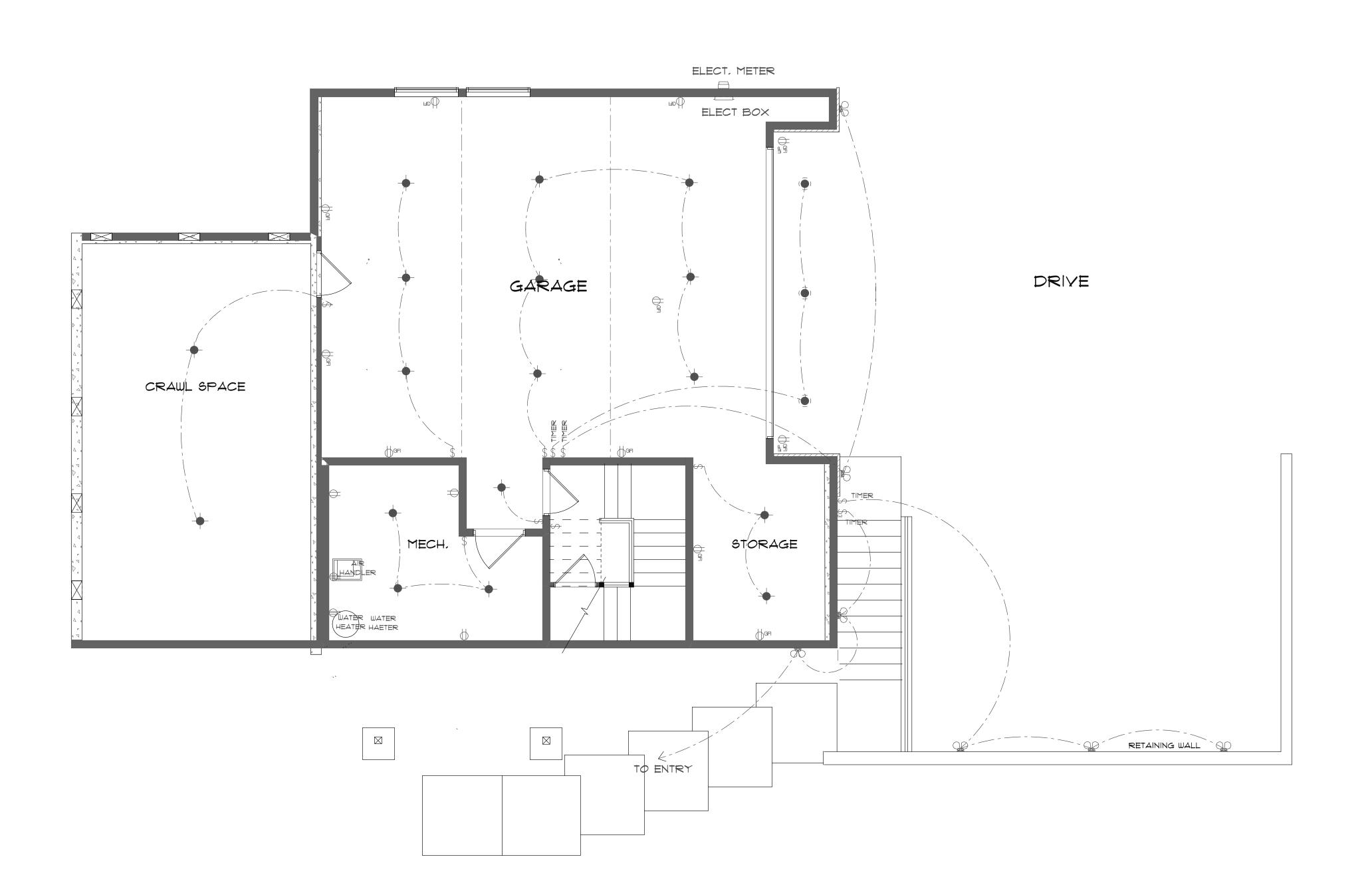
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6-25-2020

PROJECT NO.

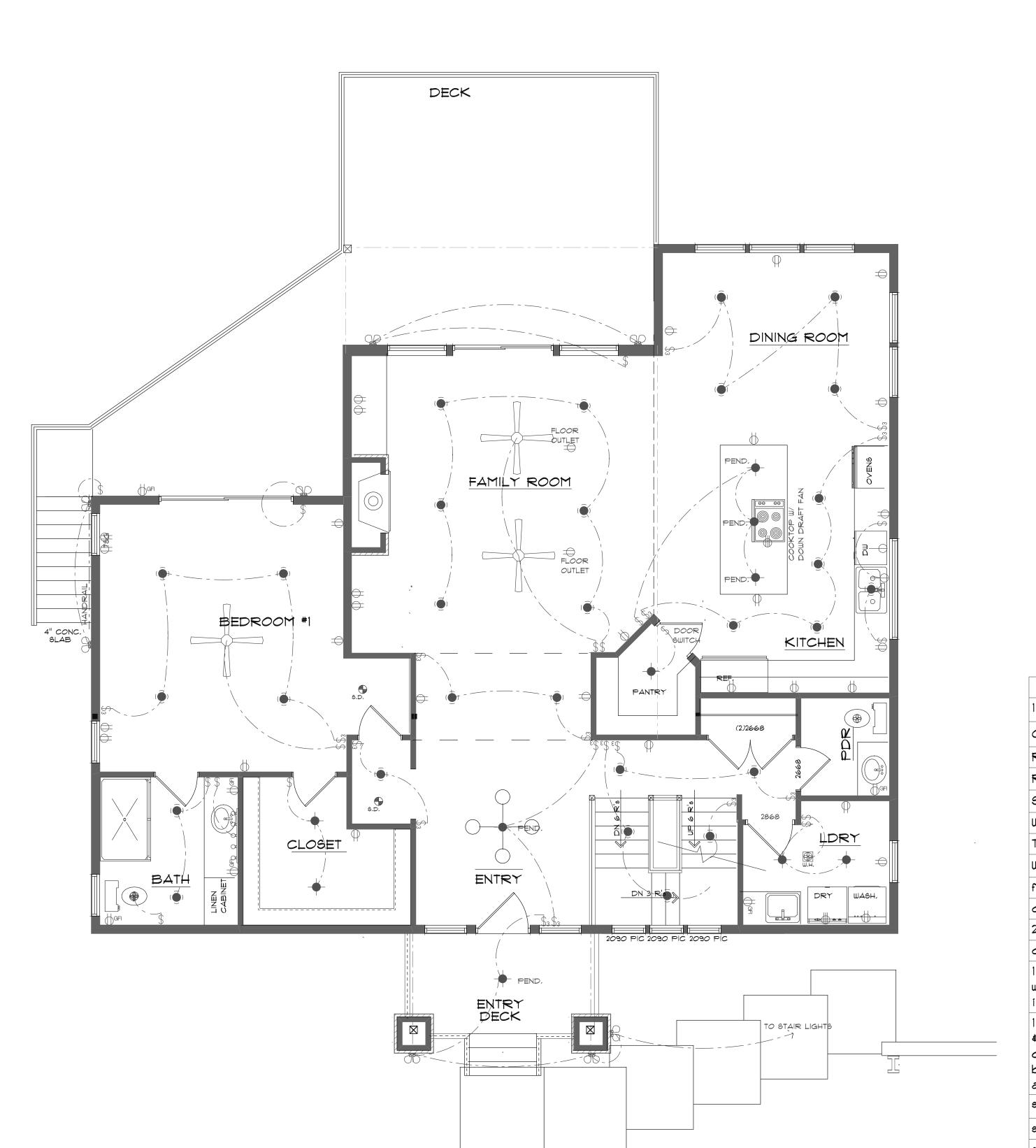
001

SHEET NO. A6.2



IIOY. SMOKE DETECTOR W/ BATTERY
BACK-UP & INTERCONNECTED ALARMS
WHOLE HOUSE FAN - 100 CFM MIN, YTO

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



ELECTRICAL	SYMBOL
10 v direct connection	P
Outlet 110 gfi wp	₩
Recessed can	()
Recessed directional	ф
Burface mount	-
Jall Mount Flood	QD
Telephone outlet	
Jall mount	
an 50 CFM min	₩
outlet	Ф
220v Direct Wire	\bigsigma
outlet gfi	∯ ^{GFI}
10v. smoke detector with battery backup interconnect alarms	e,D.
IOv. combination smoke carbon monoxide detector with battery packup interconnect alarms	S.D. CMD
aplit receptacle	
ewitch	\$
Bwitch 3 way	\$3
oaddle fan	

A2IO REGISTERED
ARCHITECT
ARCHITECT
RONALD R. HEALEY
STATE OF WASHINGTON

THE HEALEY ALLIANCE AZ BOS N 135th DRIVE, GOODYEAR, AZ, 85335 - (425) 444-6768
ARCHITECTS

MI Treehouse, LLC 5631 EAST MERCER WAY MERCER ISLAND, WA.

MAIN FLOOR ELECTRICAL

DATE 6-25-2020

PROJECT NO. 001

энеет NO. Д6.3

FLOOR PLAN

ELECTRICAL

110 v direct connection

Recessed directional

Outlet 110 gfi wp

Recessed can

Surface mount

Wall mount

outlet gfi

outlet

Wall Mount Flood

Telephone outlet

fan 50 CFM min

220v Direct Wire

110v. smoke detector

110v. combination smoke

with battery backup interconnect alarms

\$ carbon monoxide detector with battery backup interconnect

split receptacle

switch 3 way

paddle fan

switch

SYMBOL

-

<u>ap</u>

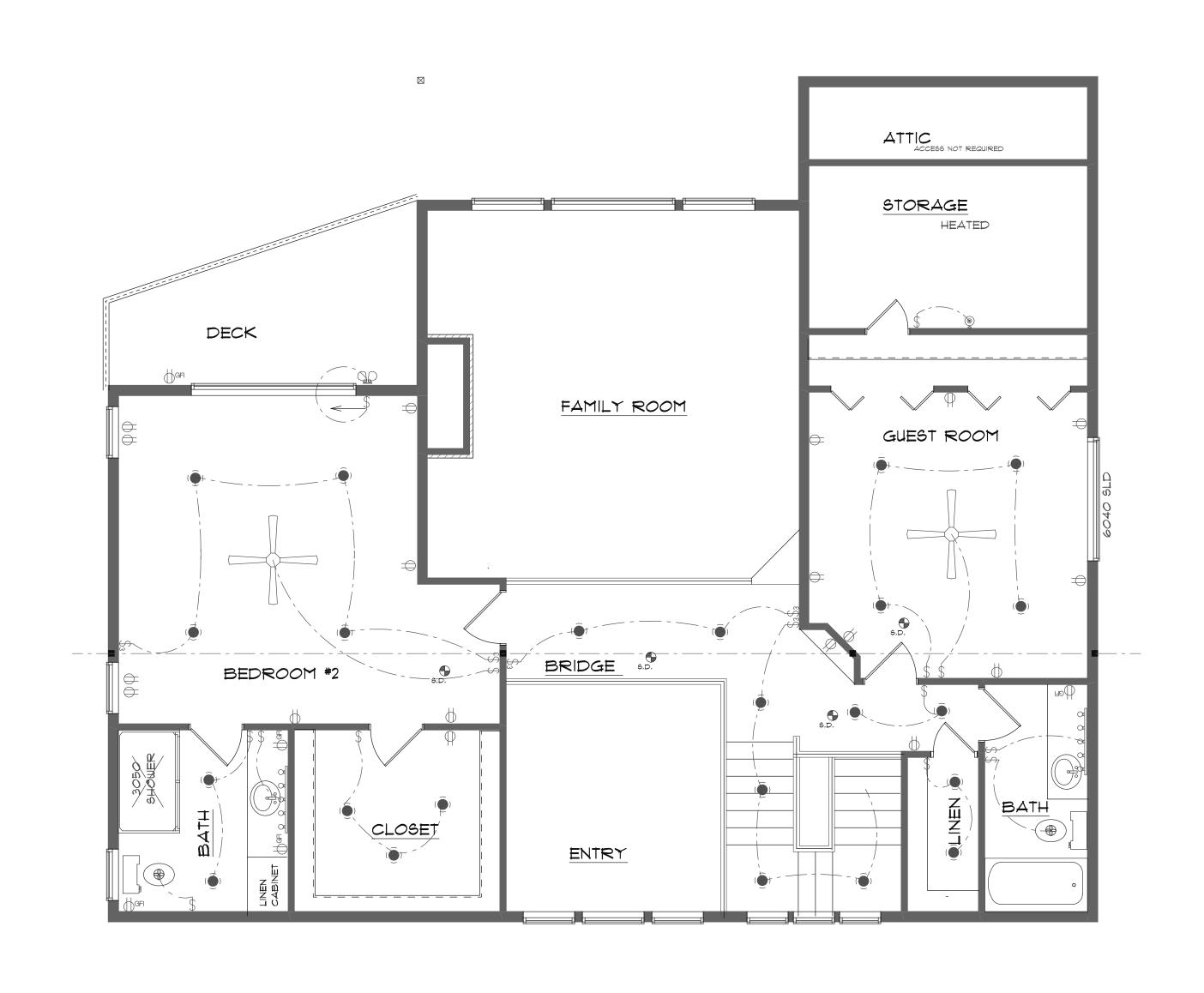
₩ GFI

OL OL DATE

DATE 6-25-2020

PROJECT NO.

SHEET NO.



1¼" TO 2" WIDE X-STRONG STEEL RING

TYPICAL PIN PILE SPLICING DETAIL

w/ 1/4" 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 6SACKS	 6 GALLONS	PILE LEAN CONCRETE 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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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.

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 ($F_b = 2400 \text{ PSI}$, $F_v = 109 \text{ PSI}$) 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:

EDAMINIC CDADEC

FRAMING GRADES:	
2x ROOF RAFTERS	DOUG-FIR/LARCH #2 $F_b = 900PSI$
2x FLOOR/DECK JOIST	DOUG-FIR/LARCH #2 $F_b = 900PSI$
4x BEAMS	DOUG-FIR/LARCH #2 $F_b = 900PSI$
6x BEAMS	DOUG-FIR/LARCH #1 $F_b = 1350PSI$
4x COLUMNS	DOUG-FIR/LARCH #1 $F_b = 1000PSI$
6x COLUMNS	DOUG-FIR/LARCH #1 $F_b = 1200PSI$
2x STUDS	$HEM-FIRF_{b} = 675PSI$
LSL	LSL 1.55E $F_{b} = 2325PSI$
LVL	LVL 2.0E $F_{b}^{b} = 2600PSI$
PSL	$PSL 2.2EF_{b}^{b} = 2900PSI$
GLB	$GLU-LAM (24F-V4)F_b = 2400PSI$
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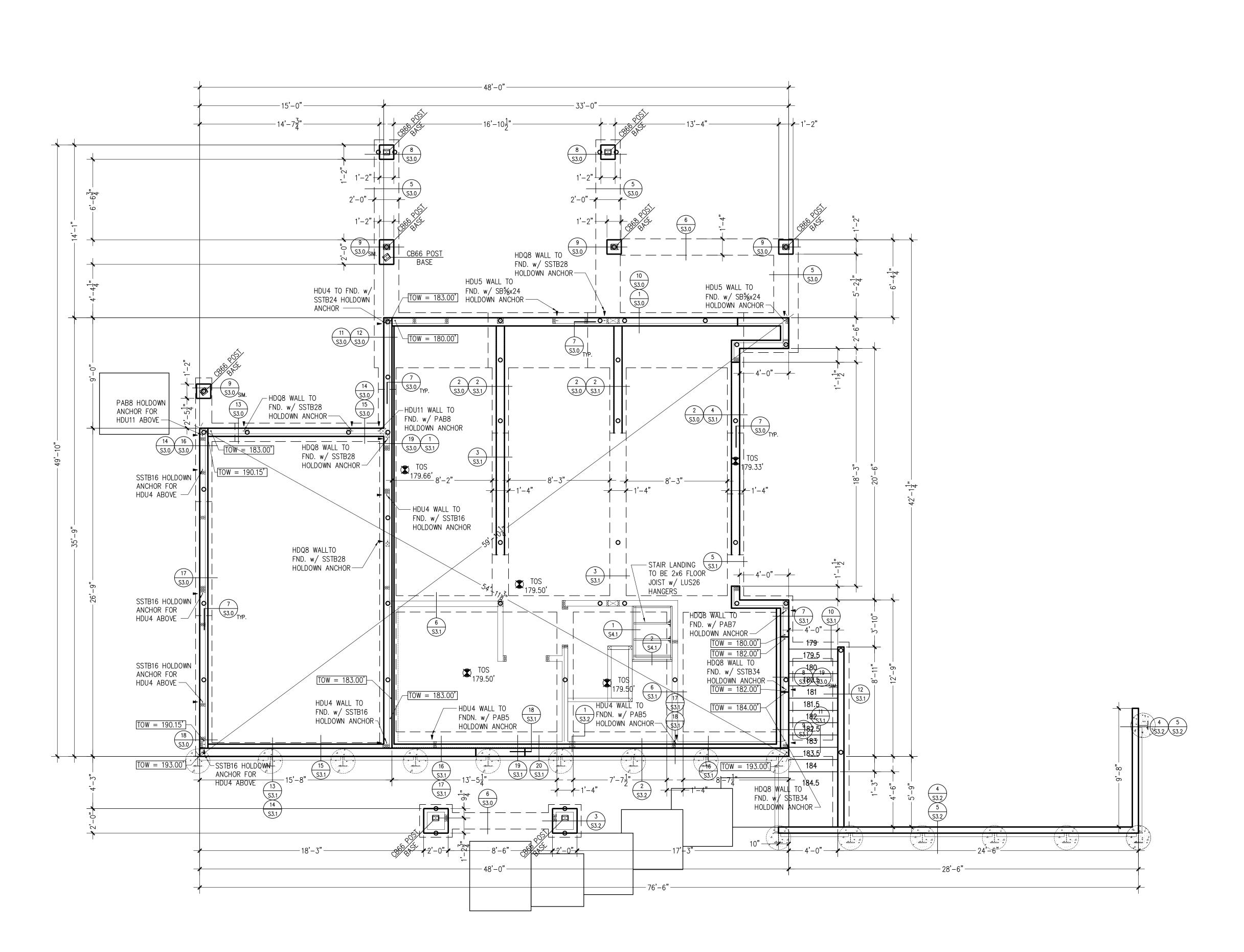
STRUCTURAL NOTES

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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.

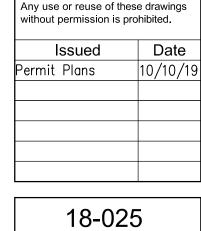
P1-X

- 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





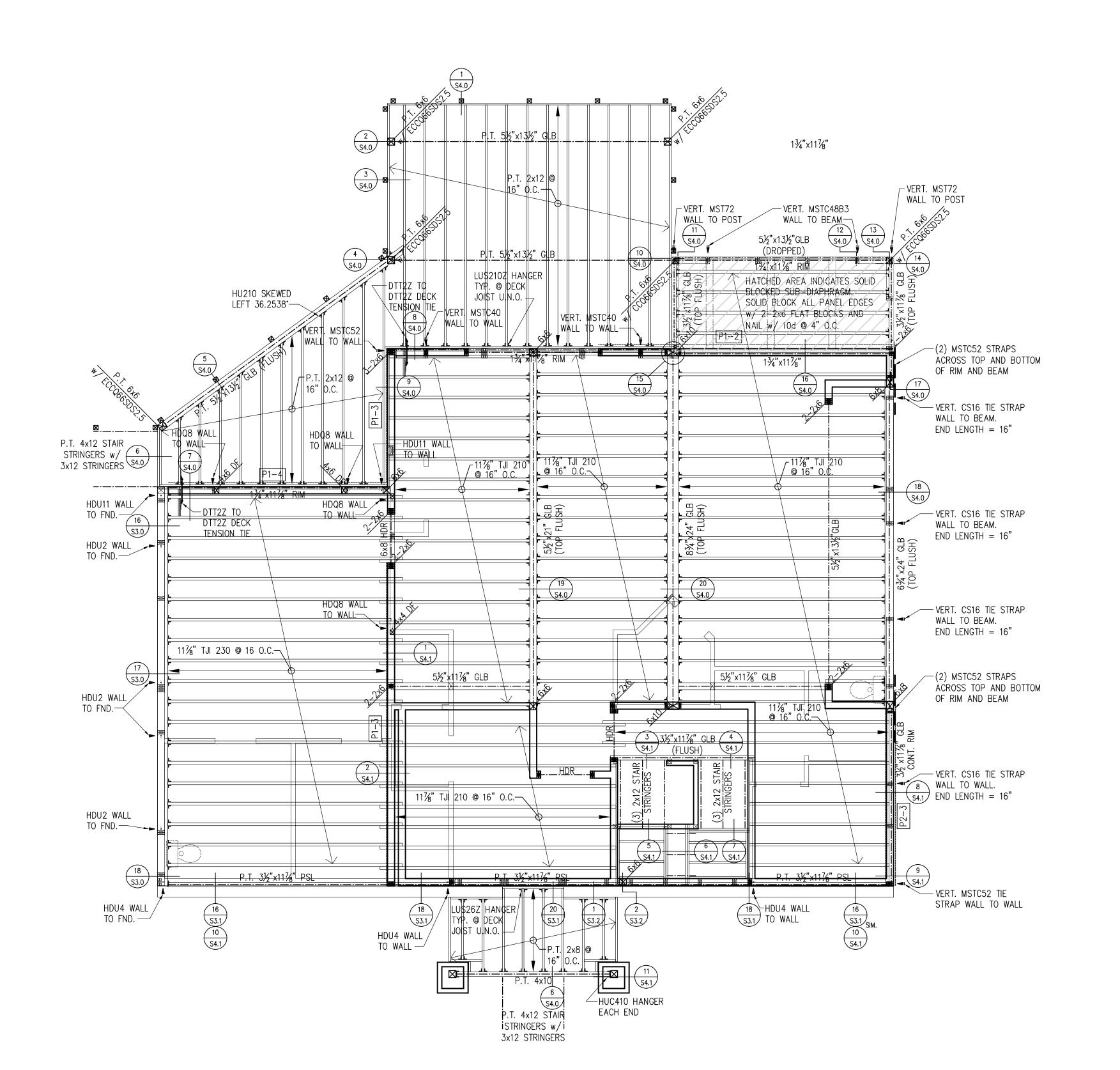
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MAIN FLOOR FRAMING PLAN

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.

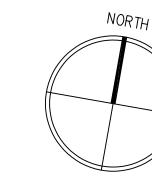
- 2. ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 H.F. (STUD GRADE OR BETTER).
- 3. ALL FRAME NAILING TO COMPLY WITH TABLE 2304.10.1, 2015 I.B.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 8d AT 6" O.C. TYPICAL, U.N.O. ON SHEAR WALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP 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.

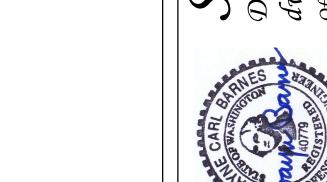
- DENOTES SHEARWALL MARK. MARK IS ON SIDE OF WALL TO BE SHEATHED

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

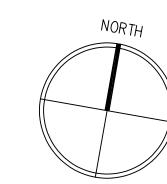
 U.N.O.
- 3. ■ DENOTES LOCATION OF TIE STRAP PER PLAN
- 5. SEE SHEETS S1.0, AND S4.3 FOR SHEARWALL SCHEDULE, NOTES AND TYP. DETAILS

<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

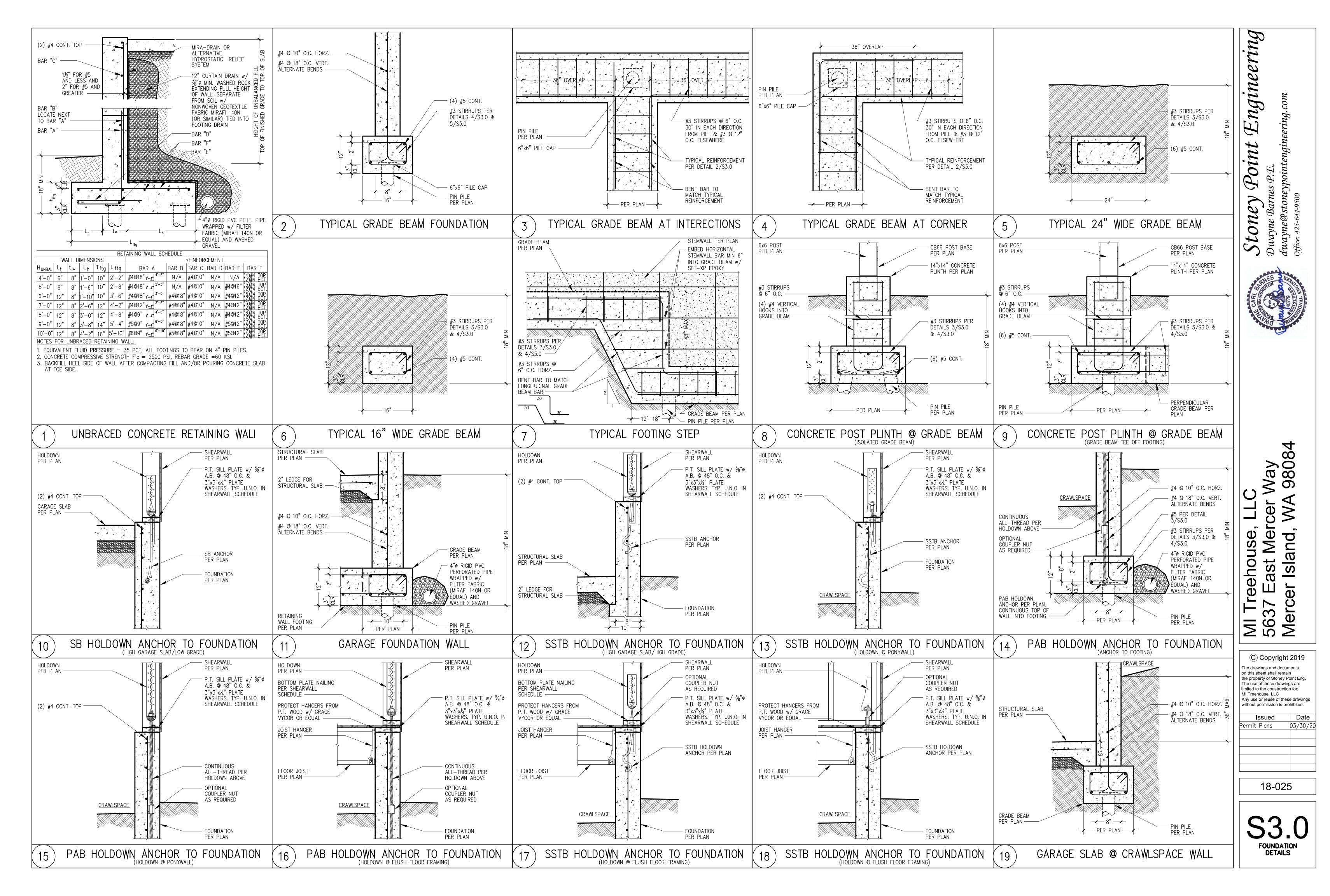
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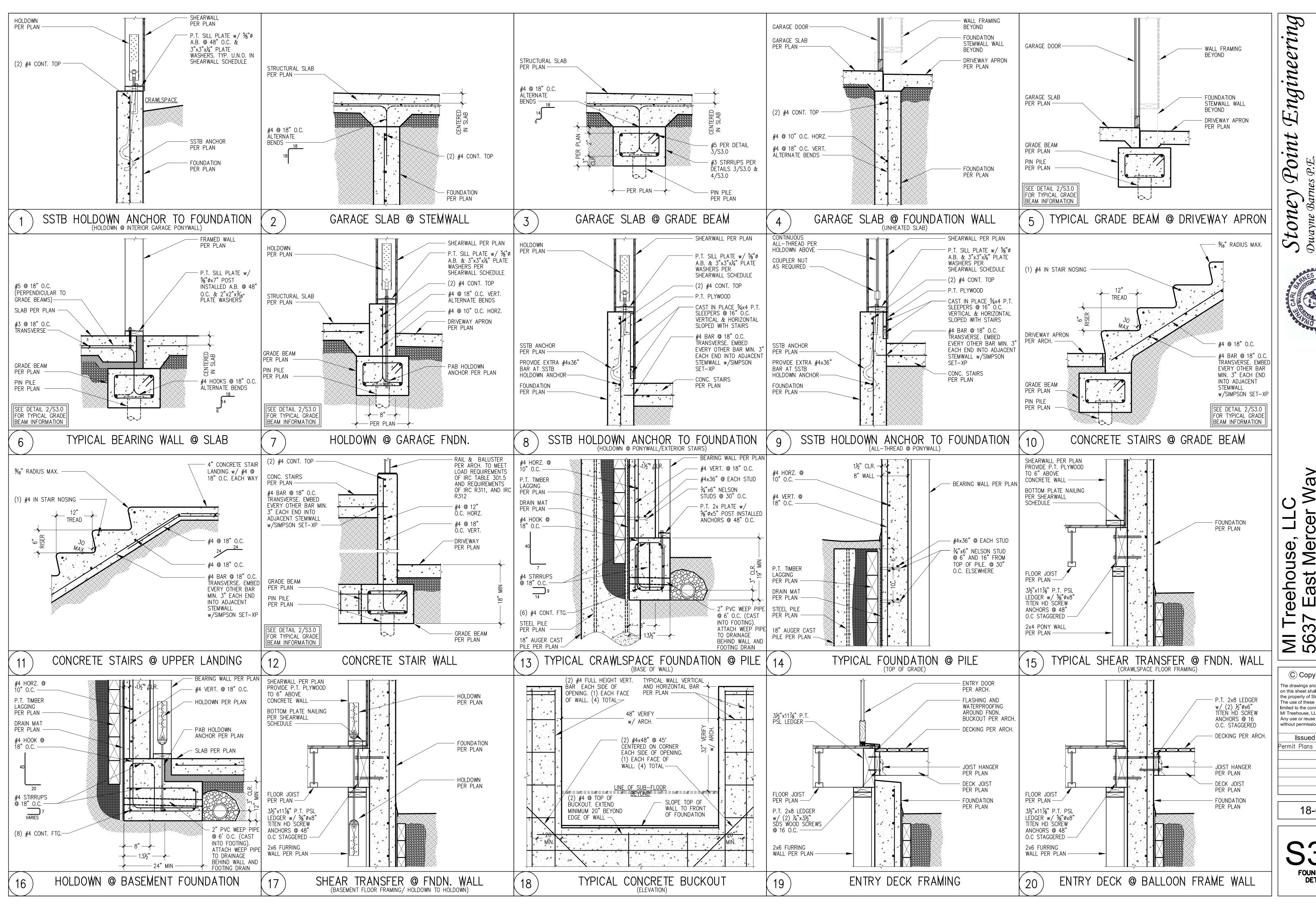
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ROOF FRAMING PLAN





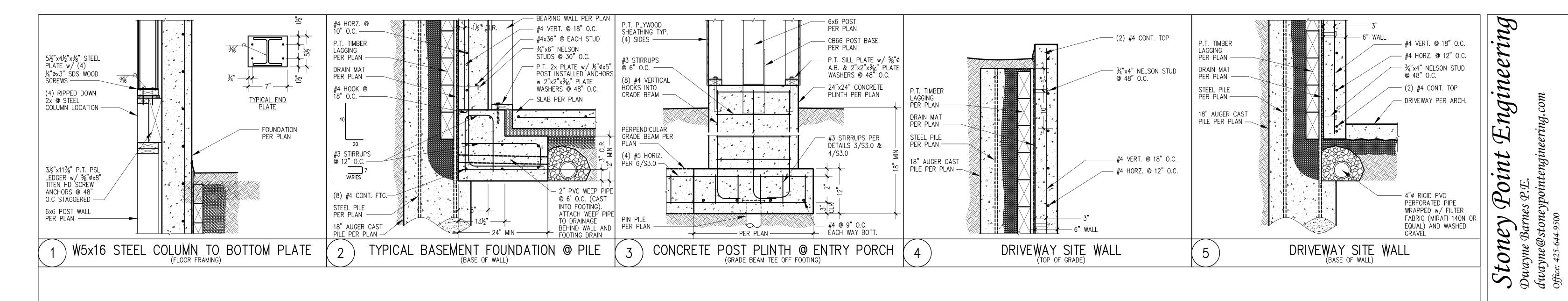
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FOUNDATION DETAILS



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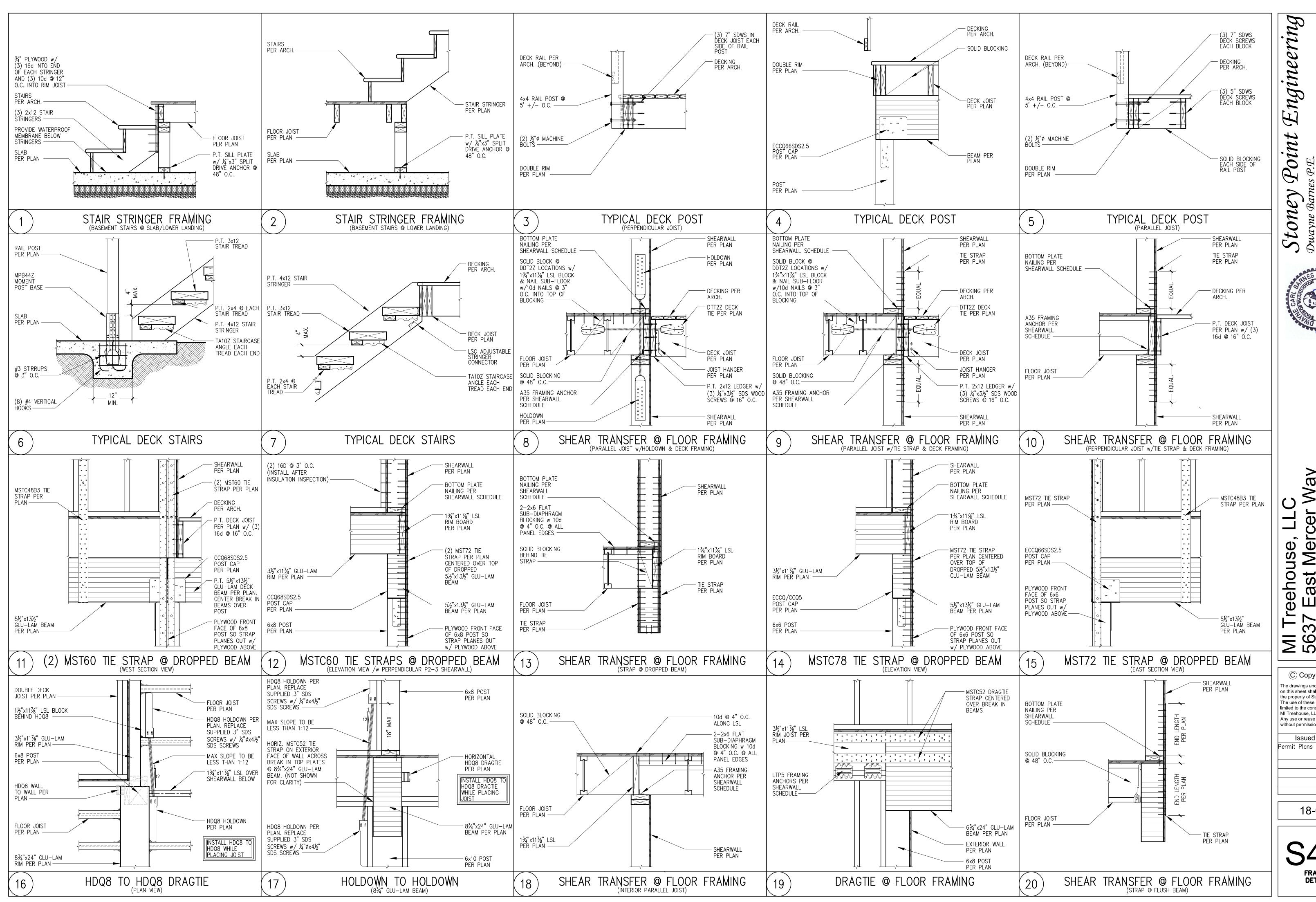
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S3.2

FOUNDATION DETAILS

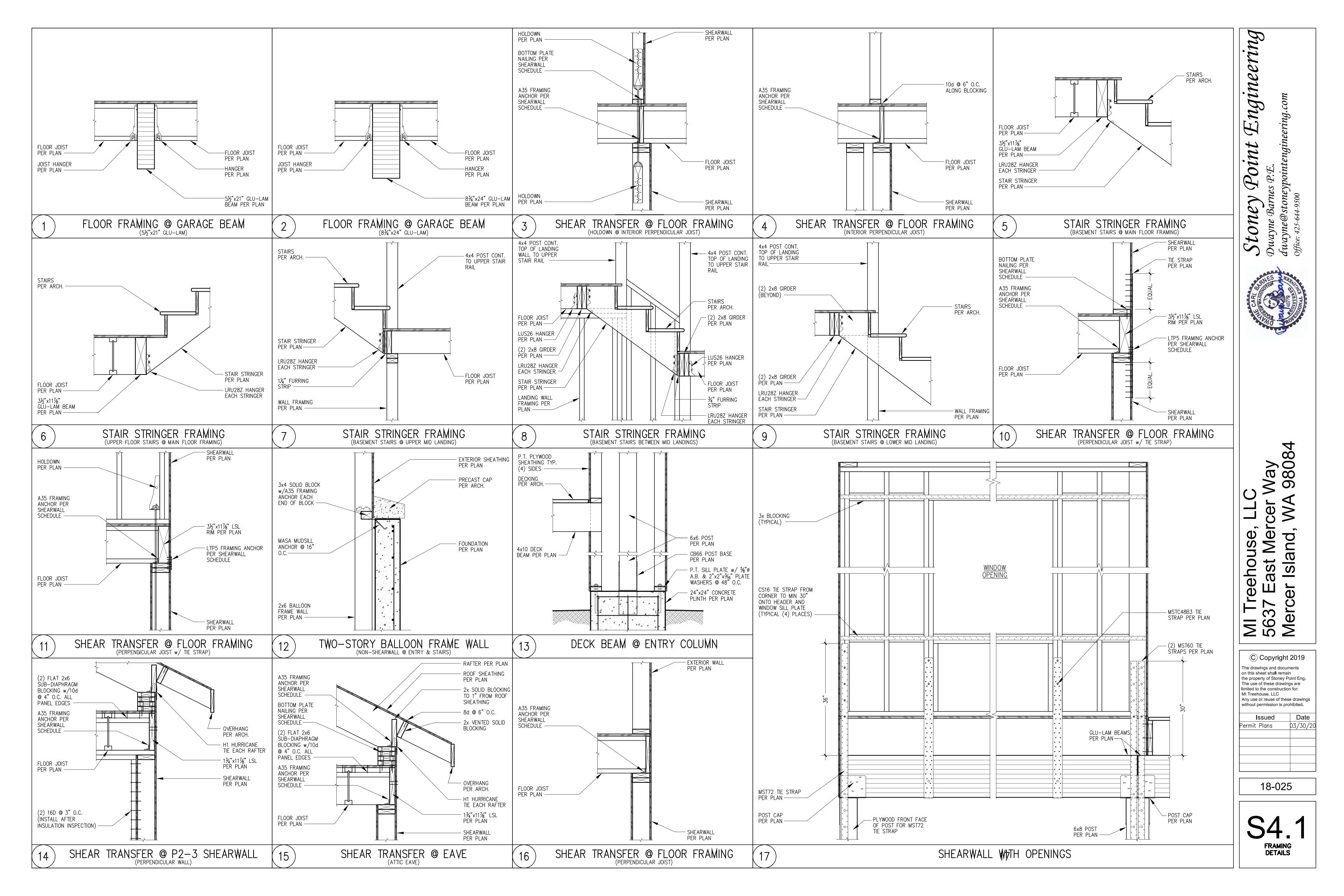


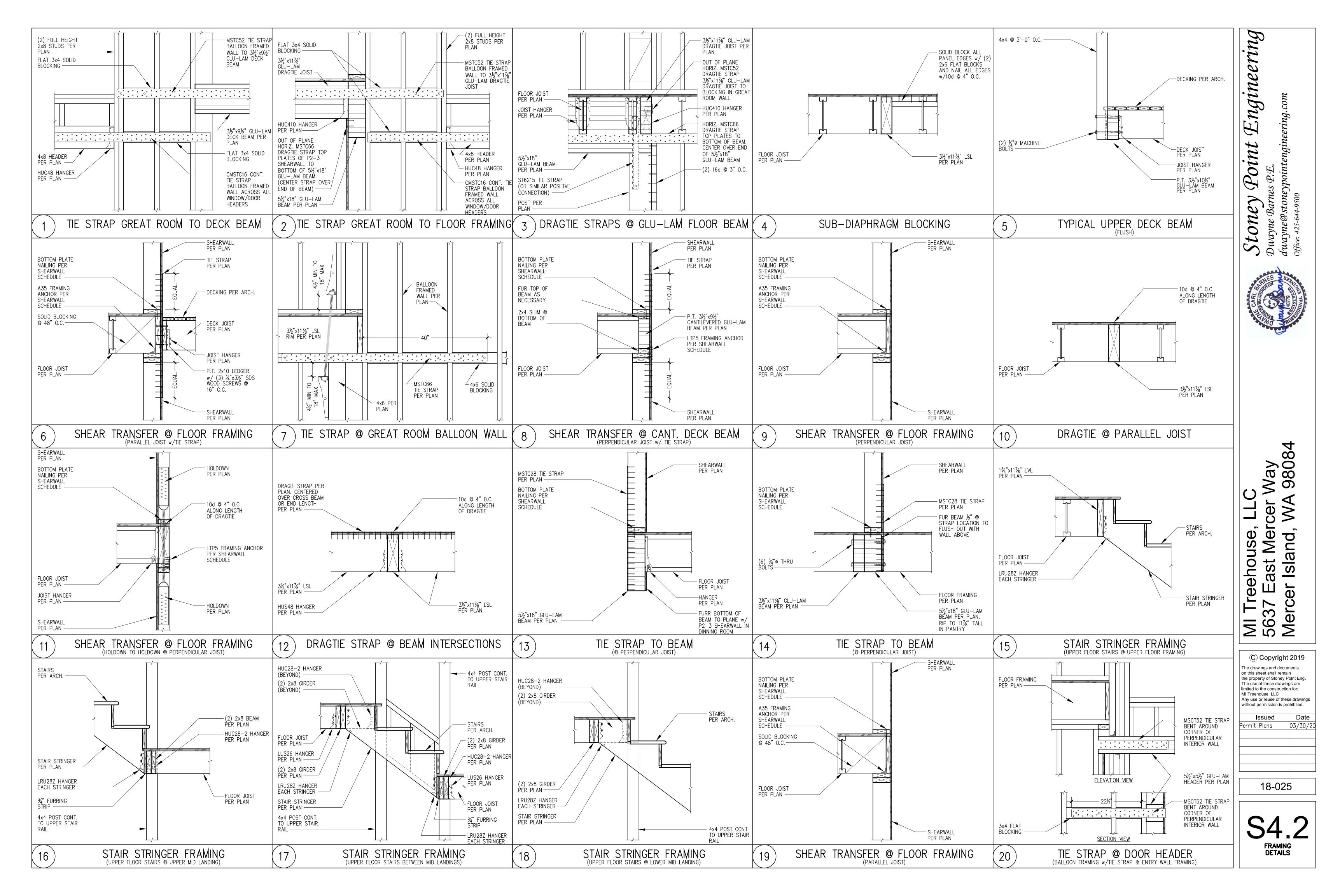
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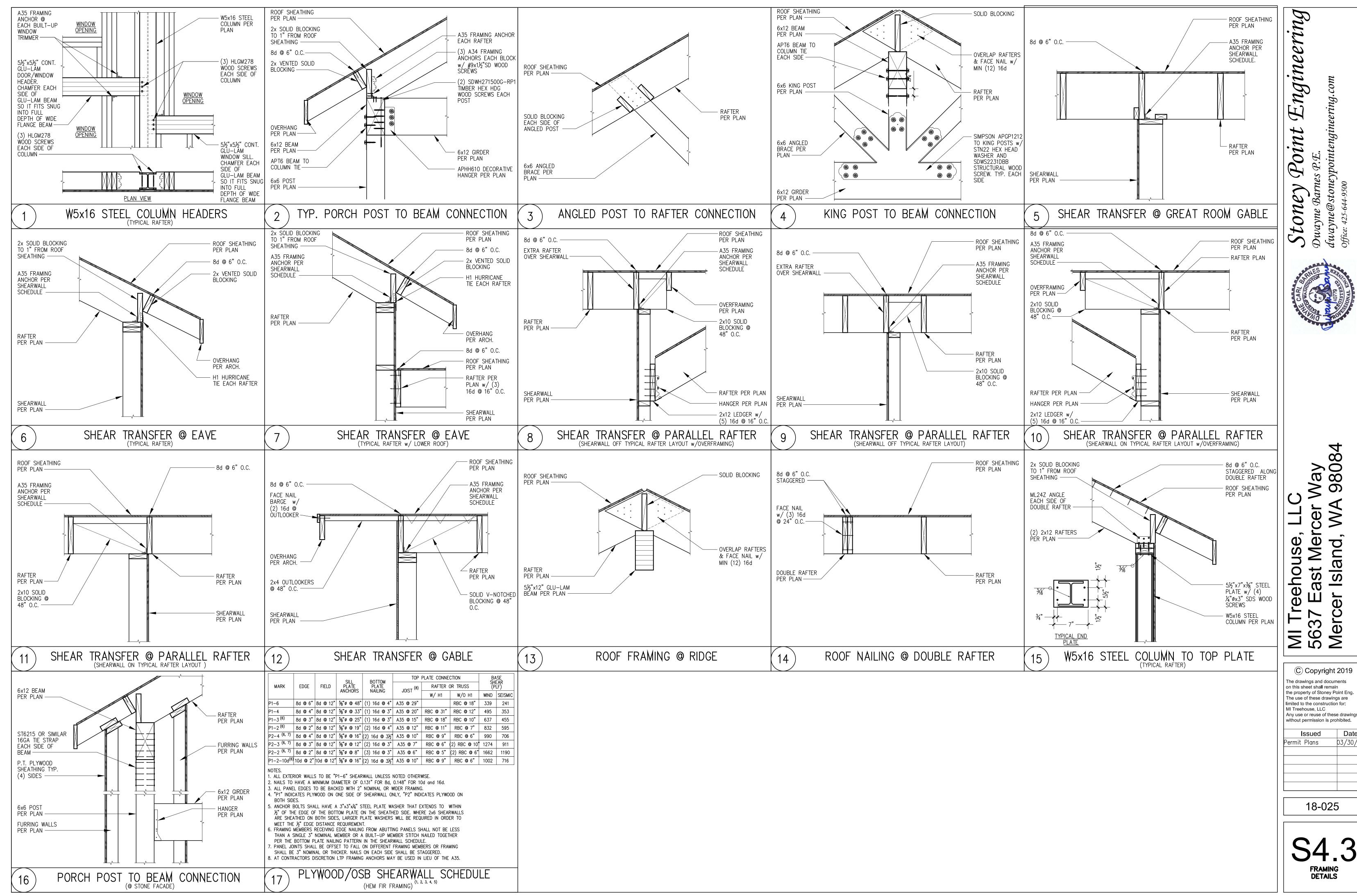
Me 56 © Copyright 2019 The drawings and documents on this sheet shall remain the property of Stoney Point Eng. The use of these drawings are limited to the construction for: MI Treehouse, LLC Any use or reuse of these drawings without permission is prohibited. Issued Date Permit Plans 03/30/20

18-025

FRAMING DETAILS







 ∞

Date

03/30/20

PROJECT NUMBER *18039*

VICINITY MAP

5637 MERCER WAY

5637 E MERCER WAY MERCER ISLAND, WASHINGTON

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.

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
- 3. THIS SITE IS SUBJECT TO AN EASEMENT FOR SIDE SEWER SERVICE AND THE TERMS AND CONDITIONS THEREOF AS
- 4. THIS SITE IS SUBJECT TO AN EASEMENT FOR STORMWATER/UTILITY FACILITIES & PEDESTRIAN TRAIL AND THE TERMS AND CONDITIONS THEREOF AS RECORDED UNDER RECORDING NUMBER 20070425001878.

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.
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR 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

VERTICAL DATUM

BENCHMARKS

CITY OF MERCER ISLAND POINT "CASC 38"

SHEET INDEX

CLEARING & GRADING PLAN TESC PLAN
UTILITIES PLAN
NOTES, DETAILS, AND SECTIONS

SITE STATISTICS

SITE AREA: LOTS PROPOSED:

R-15 (RESIDENTIAL-SINGLE FAMILY) ±37,554 SF (±0.862 ACRES)

192405-9312

LOT SLOPE STATISTICS

24.5%

LEGEND

— — — — — BUILDING OVERHANG LOT LINES DRIVEWAY BOUNDARY PROPERTY BOUNDARY

_____ BUILDING EDGE

— - — - — SURVEY ALIGNMENT 41ST PAVEMENT EDGE

FOUND MONUMENT AS DESCRIBED

FOUND PIPE/REBAR AS DESCRIBED MADRONA

DOGWOOD

CHAIN LINK FENCE VERTICAL BOARD FENCE

SILT FENCE

INLET FILTER (W.S.D.O.T. STD DTL. 1-40.20-00)

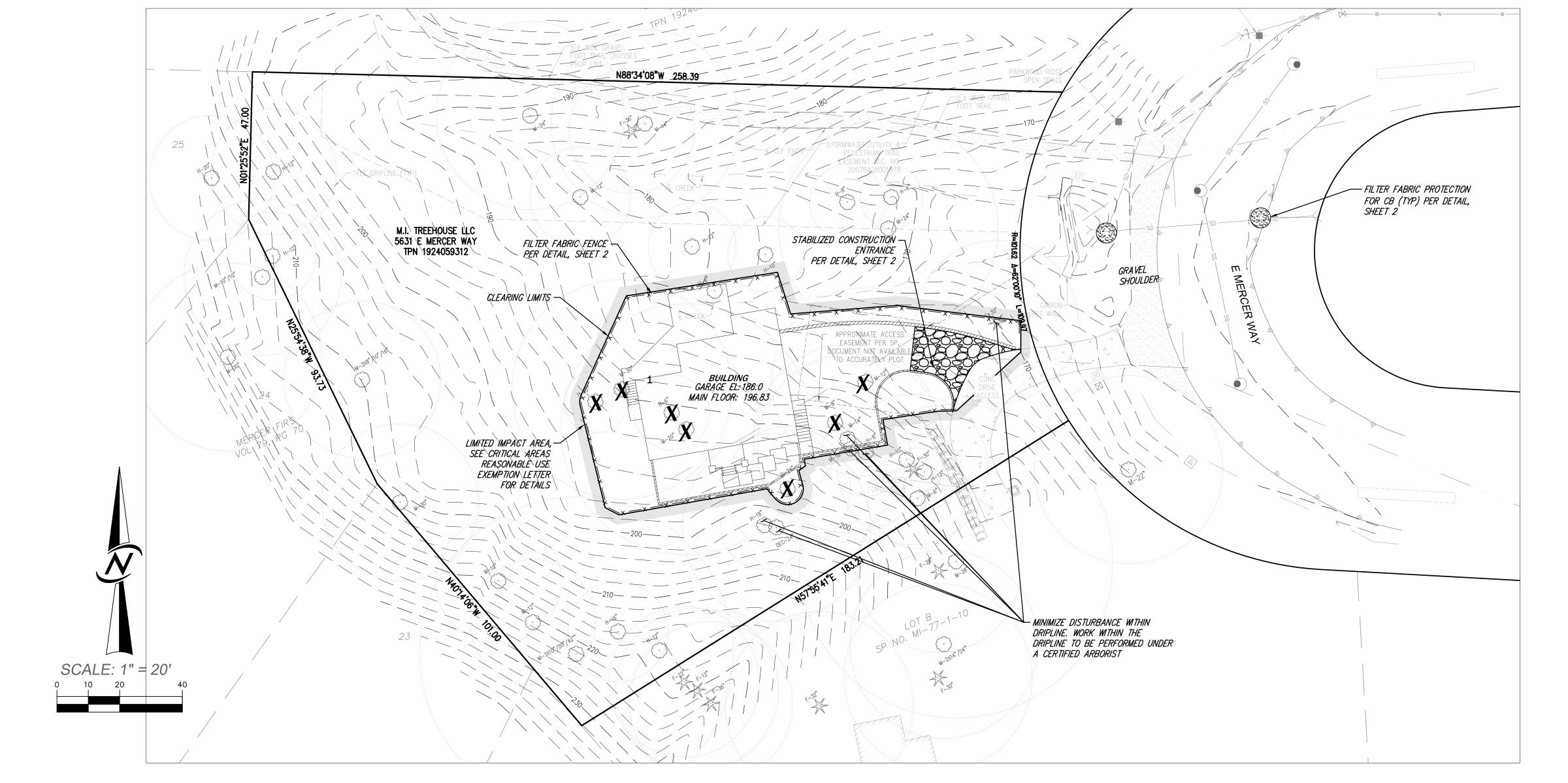
STABILIZED CONSTRUCTION ENTRANCE DOE STD DTL. BMP 205

CLEARING LIMITS EXISTING CONTOUR

PROPOSED CONTOUR



ONSITE TREE TO BE REMOVED



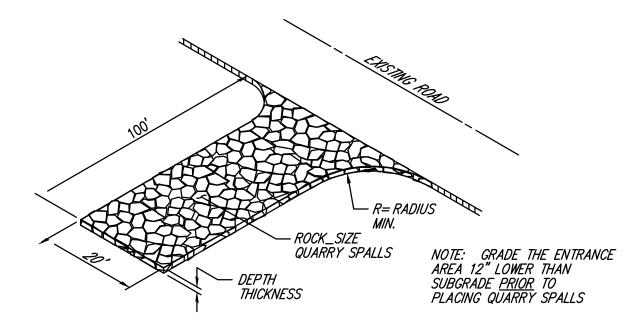
SHEET

ROJECT NUMBE 18039

CONSTRUCTION SEQUENCE

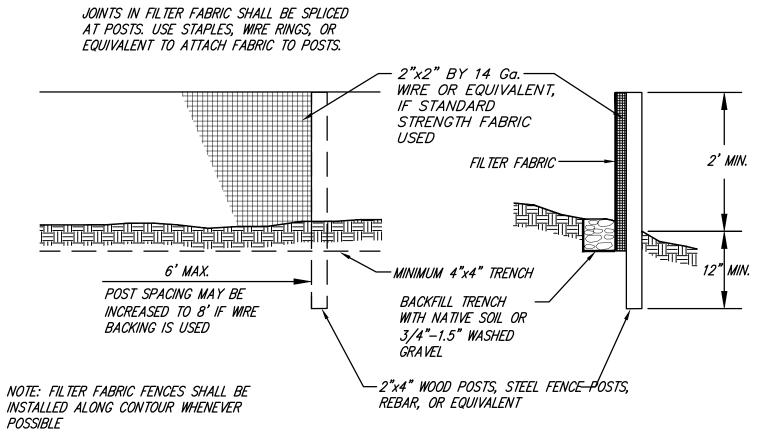
- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF MERCER ISLAND BY PHONING (206)-275-7726.
- FLAG LIMITS OF CLEARING IN FIELD AS INDICATED ON SHEET C1.01.
- (3) CLEAR FOR AND CONSTRUCT THE ROCKED CONSTRUCTION ACCESS.
- (4) CONSTRUCT PERIMETER FILTER FABRIC FENCES.
- CONSTRUCT DOWNSTREAM DISCHARGE SYSTEM, INTERCEPTOR SWALES, ROCK CHECK DAMS, STORM DRAINAGE PIPES, RIP
- 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.
- CONSTRUCT SANITARY SEWER, WATER, & REMAINING STORM DRAINAGE FACILITIES PER THE APPROVED PLANS.
- §

 FINE GRADE AND PAVE THE DRIVEWAY.
- UPON COMPLETION OF GRADING ACTIVITIES, STABILIZE ALL DISTURBED AREAS, REMOVE EXCESS SEDIMENT FROM THE TANK AND REMOVE ALL TEMPORARY EROSION/ SEDIMENTATION CONTROL FACILITIES.



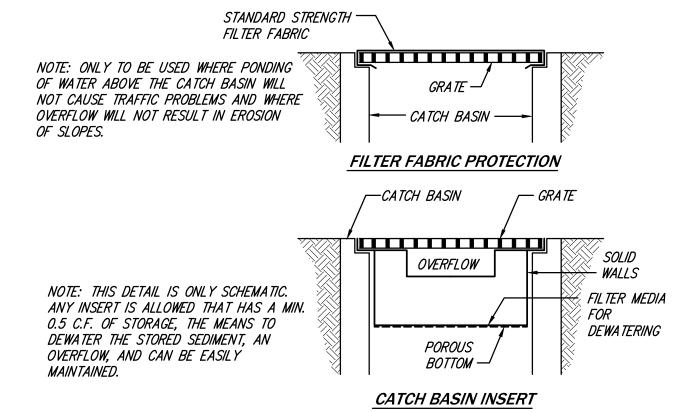
STABILIZED CONSTRUCTION ACCESS

NO SCALE



FILTER FABRIC FENCE DETAIL

NO SCALE

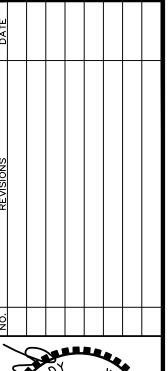


Maintenance Standards

- 1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON—SITE OR HAULED OFF—SITE.
- 2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE—THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
- 3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

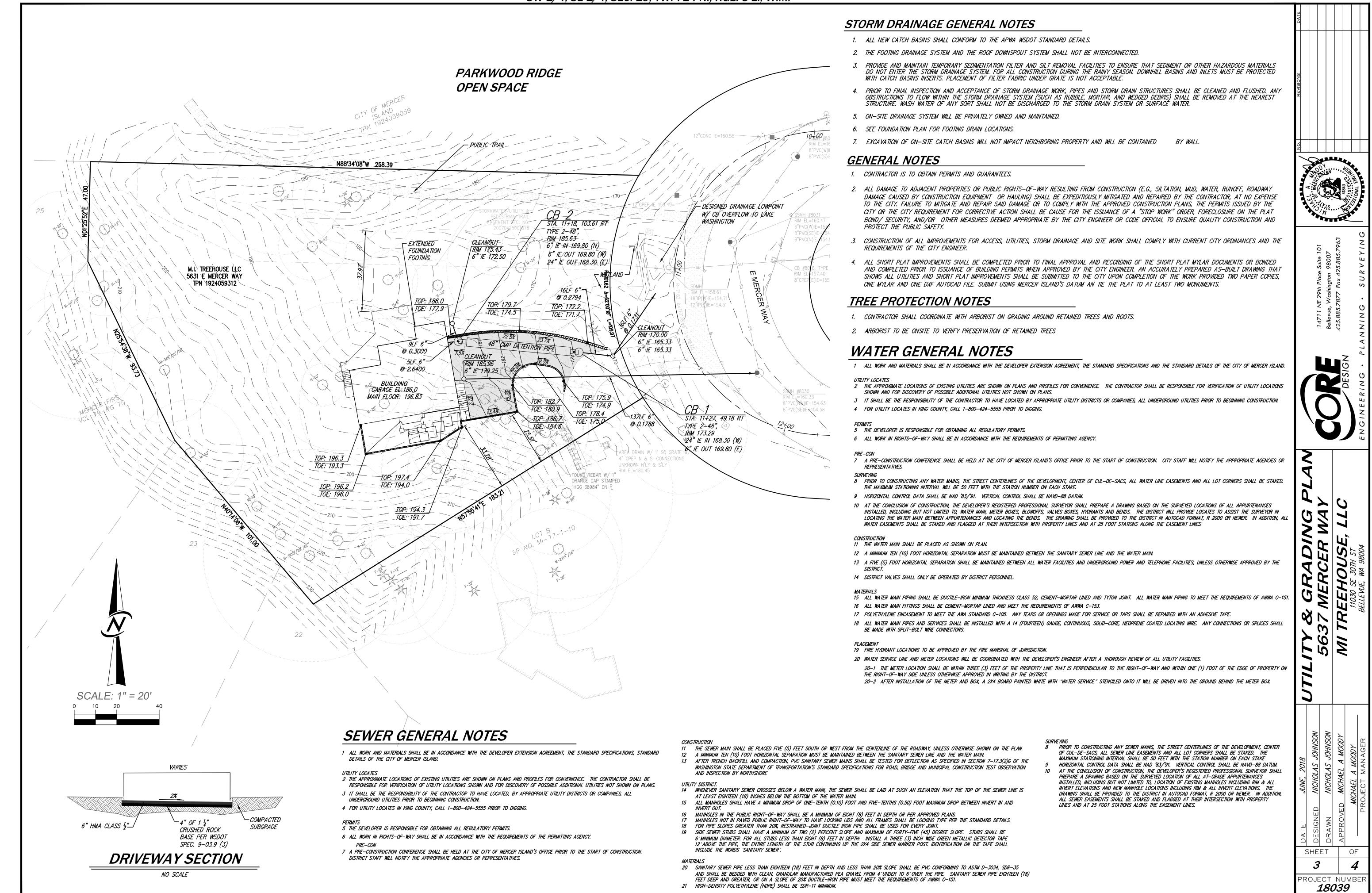
FILTER FABRIC PROTECTION FOR CB's

NO SCALE



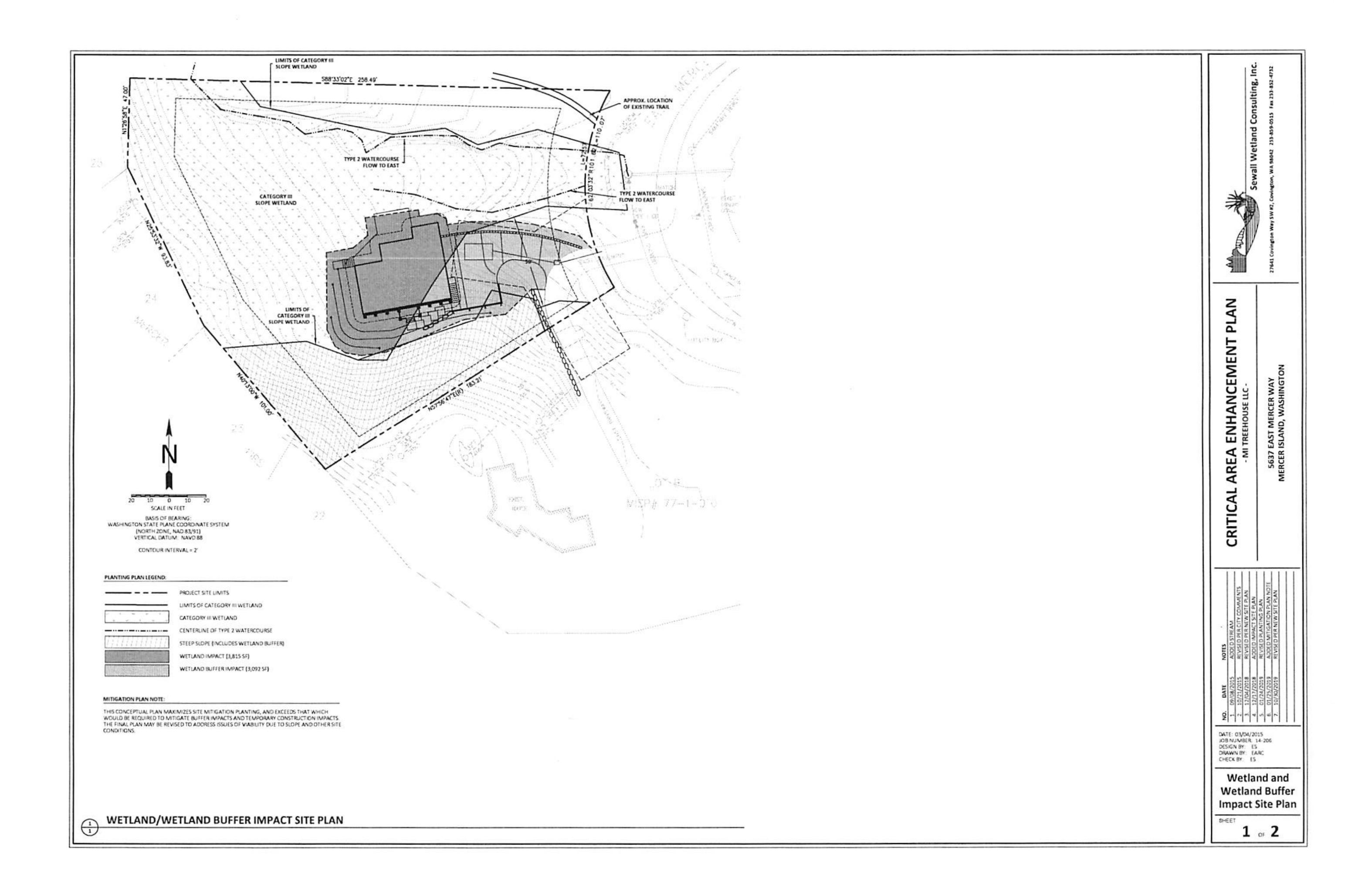


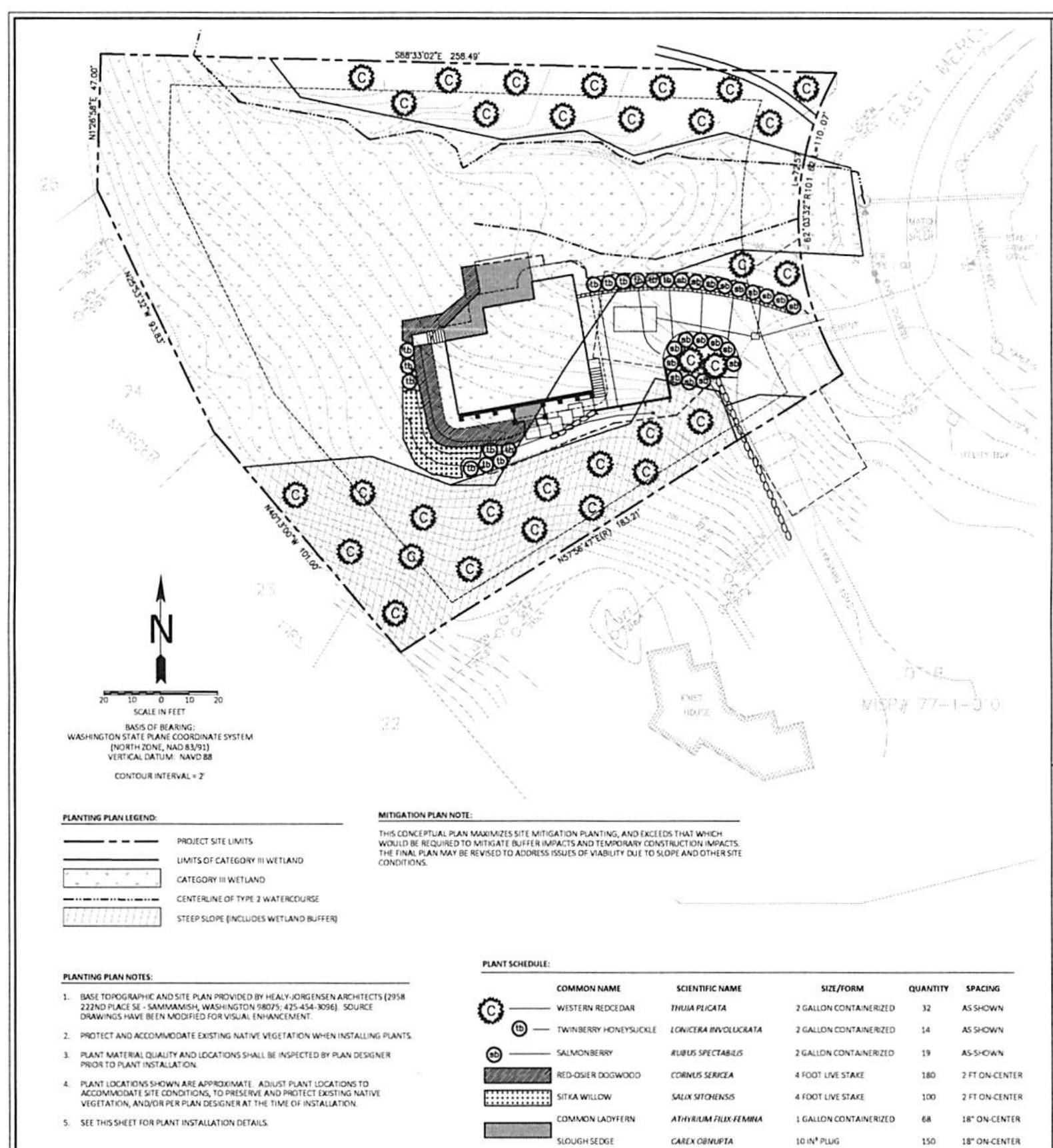
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PROJECT NUMBER
18039





PLANTING PLAN

MONITORING PLAN & MAINTENANCE PLAN

ENHANCEMENT PLAN GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS

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

MONITORING PLAN

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:
- 3. HERBIVORY PROTECTION;
- 4. 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.

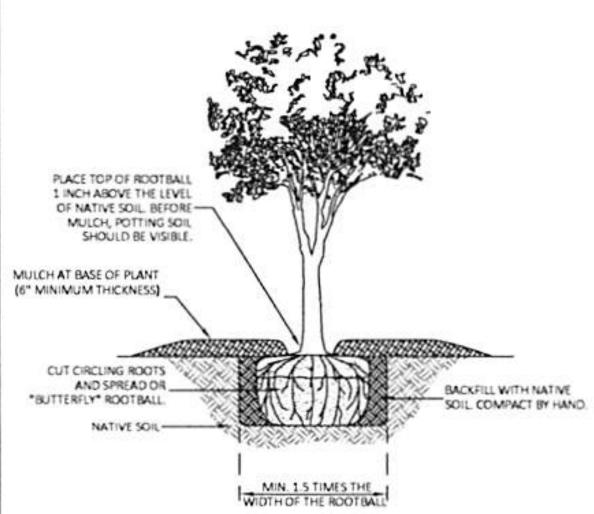
GENERAL MAINTENANCE SHALL INCLUDE:

- 1. RE-APPLYING BARK MULCH TO MAINTAIN A 6" MINIMUM APPLIED THICKNESS - YEAR 1 ONLY
- 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
- 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 1-1: 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 596 NATIVE PLANTS	AUGUST OR SEPTEMBER OF YEARS 1, 2, 3, 4, & 5 FOLLOWING PLANT INITIAL INSTALLATION	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. 85% SURVIVAL BY INSTALLED PLANT STOCK AFTER THE FIFTH GROWING SEASON (YEAR 5).



PLANT INSTALLATION DETAIL NOT TO SCALE

TOTAL - 563

GENERAL NOTES:

WORK SHALL CONFORM TO ANY AND ALL APPLICABLE PERMIT AND/OR APPROVED CONSTRUCTION DRAWINGS.

WORK SHALL BE COMPLETED BY PERSONS EXPERIENCED IN TH

ENHANCEMENT WORK SHOWN ON THESE DRAWINGS. 3. BEFORE THE START OF CONSTRUCTION, A PRE-CONSTRUCTION

MEETING MUST BE HELD BETWEEN MERCER ISLAND, THE OWNER, AND THE PLAN DESIGNER.

L. 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.



UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. JTILITY 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.

RCER WAY WASHINGT

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DATE: 03/04/2015 JOB NUMBER: 14-206 DESIGN BY: ES DRAWN BY: EARC CHECK BY: ES

Planting Plan, Notes, Details, 8 Monitoring Plan

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