### ABBREVIATIONS

BUILDING CODE, TESTING, DESIGN, & MANUFACTURER ABBREVIATIONS

IRC	INTERNATIONAL RESIDENTIAL CODE
IBC	INTERNATIONAL BUILDING CODE
WSEC	WASHINGTON STATE ENERGY CODE
WSCA	WASHINGTON STATE CODE AMENDMENTS - STATE AMENDMENTS TO A NATIONAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION - NATIONAL
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION - FEDERAL
KCSWDM	KING COUNTY SURFACE WATER DESIGN MANUAL
TESC	TEMPORARY EROSION PROTECTION MEASURES
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS CERTIFIED
UL	UNDERWRITER'S LABORATORY TESTED AND CERTIFIED
APA	AMERICAN PLYWOOD ASSOCIATION TESTED AND CERTIFIED
BMP	BEST MANAGEMENT PRACTICES
PER PLAN	REFER TO MERRILL DESIGN PLAN VIEWS
PER STRUCTURAL	REFER TO STRUCTURAL ENGINEER OR ENGINEERING FOR SPECIFICATIONS AND INSTALLATION
PER GEOTECH	REFER TO GEOTECHNICAL ENGINEER OR GEOTECHNICAL REPORT AND RECOMMENDATIONS
Manuf	MANUFACTURERED PRODUCT WHICH HAS BEEN ENGINEERED, WARRANTEED, OR CERTIFIED
Simpson	STRUCTURAL HARDWARE & FASTENING MANUFACTURER REFER TO CURRENT SIMPSON CATALOG
Hardie	JAMES HARDIE COMPANY - MANUFACTURER OF CEMENT BASED EXTERIOR SIDING & TRIM PRODUCTS
Tyyek	A DUPONT COMPANY HOUSE WRAP - MAY SUBSTITUTE EQUIVALENT PRODUCT
White Wood	PRE-FINISHED TYPE OF EXTERIOR TRIM MATERIAL - DO NOT USE IN THIS PROJECT

#### GENERAL ABBREVIATIONS

OC	ON CENTER
CL	CENTER LINE
DIA	DIAMETER
HT	HEIGHT
W	WIDTH
L	LENGTH
D	DEPTH
HORIZ	HORIZONTAL
VERT	VERTICAL
MIN	MINUMUM
MAX	MAXIMUM
EQUIV	EQUIVALENT
EX	EXISTING TO REMAIN
EXT	EXTERIOR
INT	INTERIOR
GRADE	GRADE IS THE FINISHED HEIGHT OF THE EARTH SURROUNDING THE BUILDING
EAVE	THE FLAT EDGE OF A ROOF OVERHANG
GABLE	THE SLOPED EDGE OF A ROOF OVERHANG

#### MEASUREMENT ABBREVIATIONS

SF       SQUARE FEET         SQ FT       SQUARE FEET         SQ FT       SQUARE FEET         CU FT       CUBIC FEET         LF       LINEAL FEET         LIN FT       LINEAL FEET         PSI       POUNDS PER SQUARE FOOT         GA       GAUGE OR THICKNESS OF METAL PLATE OR SHEET         MIL       MILLIMETER THICKNESS OF PLASTIC SHEET OR MEMBRANE         MEAS       MEASURE - FIELD VERIFY MEASUREMENTS PRIOR TO ORDERING MATERIALS         AND FRAMING OPENINGS & OTHER CONSTRUCTION WORK         PITCH       SLOPE OF ROOF 4/12 PITCH = 4" OF RISE IN 12" OF HORIZONTAL LENGTH         R-30       R VALUE IS A MEASURE OF GLAZING ENERGY EFFICIENCY - THE LOWER THE         U 30       U VALUE IS A MEASURE OF GLAZING ENERGY EFFICIENCY - THE LOWER THE         U VALUE THE MORE ENERGY EFFICIENT THE GLAZING ASSEMBLY         NFVA       NET FREE VENTILATION AREA	п 1	IINCHES FEET
SQ FT       SQUARE FEET         CU FT       CUBIC FEET         LF       LINEAL FEET         LIN FT       LINEAL FEET         PSI       POUNDS PER SQUARE FOOT         GA       GAUGE OR THICKNESS OF METAL PLATE OR SHEET         MIL       MILLIMETER THICKNESS OF PLASTIC SHEET OR MEMBRANE         MEAS       MEASURE - FIELD VERIFY MEASUREMENTS PRIOR TO ORDERING MATERIALS AND FRAMING OPENINGS & OTHER CONSTRUCTION WORK         PITCH       SLOPE OF ROOF 4/12 PITCH = 4" OF RISE IN 12" OF HORIZONTAL LENGTH R-30         U .30       U VALUE IS A MEASURE OF GLAZING ENERGY EFFICIENCY - THE LOWER THE U VALUE THE MORE ENERGY EFFICIENT THE GLAZING ASSEMBLY	SF	. == .
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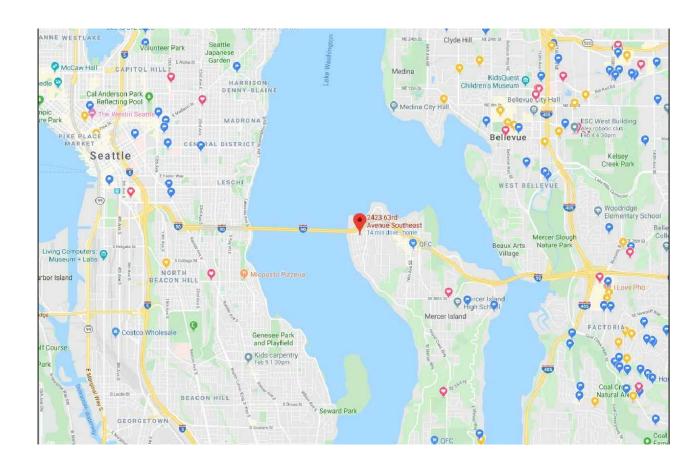
#### MATERIAL/FIXTURE ABBREVIATIONS

HF	HEM-FIR
OSB	ORIENTED STRAND BOARD SHEATHING & SUB-FLOOR
TJI	ENGINEERED AND PRE- MANUFACTURED I-JOIST OR I- RAFTER
TRUSS	T ENGINEERED AND PRE- MANUFACTURED ROOF OR FLOOR TRUSS
GL BM	GLUE LAMINATED BEAM
GLU-LAM	GLUE LAMINATED BEAM
PSL	PARALAM BEAM - STRUCTURAL BEAM OF LAMINATED FIBERS
LSL	LAMINATED STRAND LUMBER - USED FOR STUDS, RIM JOISTS & BLOCKING
LVL	STRUCTURAL RIM JOIST USED IN CONJUNCTION WITH TJI'S
STURDI-TREAD	1" X 11 1/4" BULLNOSED STRAND BOARD STAIR TREAD MATERIAL
PT	PRESSURE TREATED WOOD
TK	TIGHT KNOT
T-1-11	EXTERIOR RATED PLYWOOD WITH ROUGH SAWN FACE - NO GROOVES
VG	VERTICAL GRAIN
GWB	GYPSUM WALL BOARD OR DRYWALL
16D	LENGTH AND DIAMETER OF A NAIL
GALV	GALVANIZED STEEL
WWM	WELDED WIRE MESH
REBAR	STEEL REINFORCING ROD USED IN CONCRETE CONSTRUCTION
#4 REBAR	REFERS TO DIAMETER OF REBAR
AB	ANCHOR BOLT - BOLT EMBEDDED OR POURED INTO CONCRETE
PVC	PVC PLASTIC - TYPICAL IN WHITE DRAINAGE PIPE
ABS	ABS PLASTIC PIPE - BLACK WASTE PIPE USED IN PLUMBING
PEX	PEX PLASTIC FLEXIBLE PIPE - USED AS SUPPLY LINES FOR PLUMBING
SCHED 40	THICKNESS AND PROPERTIES OF A PARTICULAR PLASTIC PIPE
GAS	APPLIANCE USES NATURAL GAS OR PROPANE FOR HEATING
DW	DISHWASHER
DISP	DISPOSER WITH DECK MOUNTED AIR SWITCH
RANGE	SINGLE APPLIANCE WITH STOVE TOP BURNERS AND OVEN BELOW
MIRCO	MICROWAVE OVEN
HW	HOT WATER HEATER
FURN	AIR HEATING AND MOVING FURNACE
BBQ	PROVIDE NATURAL GAS FOR AN OUTDOOR BARBECUE
BIBB	FROST FREE HOSE BIBB LOCATION

#### GLAZING, WINDOW & DOOR ABBREVIATIONS

EXT	EXTERIOR DOOR W/ ALUM SILL AND CUT-IN VINYL WEATHERSTRIPPING
SL GL	TEMPERED SLIDING GLASS DOOR W/SCREEN
STORE	WOOD OR FIBERGLASS FRAME TEMPERED GLASS DOOR
SC	SOLID CORE FLAT (FLUSH) DOOR
HC	INTERIOR HOLLOW CORE FLUSH DOOR
CSMT	CASEMENT WINDOW W/ SCREEN
DBL CSMT	(2) CASEMENT WINDOWS MULLED TOGETHER W/SCREENS
SL	1/2 SLIDE WINDOW W/SCREEN
AWN	TOP HINGED PUSH OUT AWNING WINDOW W/SCREEN
FX	FIXED GLASS - PICTURE WINDOW
TEMP	TEMPERED GLASS PER NOTE 2.41/A0.2
EGRESS	EGRESS WINDOW PER 1/A3.1
MEAS	FIELD VERIFY DIMENSIONS PRIOR TO ORDERING UNIT
EX	EXISTING WINDOW OR DOOR TO REMAIN
U .30	U VALUE IS A MEASURE OF GLAZING ENERGY EFFICENCY - THE LOWER THE
	U VALUE THE MORE ENERGY EFFICIENT THE GLAZING ASSEMBLY
	2 FT- 6 INCH (30") WIDE X 6 FT - 8 INCH (80") TALL NOMINAL
2/6 6/8	DOOR OR WINDOW SIZE - CONFIRM ROUGH OPENING WITH WINDOW OR
	DOOR PROVIDER PRIOR TO FRAMING.
	THERMALLY BROKEN ALUMINUM FRAME WINDOW OR SKYLIGHT
ALUM	PVC PLASTIC FRAME WINDOW OR SLIDING GLASS DOOR
VINYL	FIBERGLASS FRAME WINDOW OR DOOR
FBGL	WOOD WINDOW OR DOOR WITH EXTERIOR CLADDING OF VINYL, ALUM, FIBERGLASS
CLAD	

### VINCINITY MAP



### PERSPECTIVE VIEW



### CODE

2015 International Building Code-WAC 51-50 2015 International Residential Code-WAC 51-51 2015 Washington State Energy Code 2015 International Fire Code-WAC 51-54A 2015 International Mechanical Code-WAC 51-52 2015 International Fuel Gas Code-WAC 51-52 2015 Uniform Plumbing Code-WAC 51-56 and WAC 51-57 2015 International Existing Building Code ANSI 117.1 -2009 (Accessibility Standards)

Current Municipal Code

### ZONING

CITY OF MERCER ISLAND, WASHINGTON ZONING R-8.4

## **PROPERTY OWNER'S AGENT**

LI MINGQIN & SUN YONG 2423 63RD AVE SE, MERCER ISLAND, WA 98040 PHONE: 425.628.5628

# PROJECT DATA

PROJECT ADDRESS: 2423 63RD AVE SE, MERCER ISLAND, WA 98040 PARCEL NUMBER: 409950-0430 PARCEL SIZE (SQ FT): 10,500 SF

## LEGAL DISCRIPTION

LAKE VIEW PLACE EAST SEATTLE N  $\frac{1}{2}$  OF 14 ALL OF LOTS 15 THRU 17 PLat Block: 4 Plat Lot: 14-17

# SCOPE OF WORK

Demo existing building, build a new building with 2 story house with total building area of around 4,200 sq ft w/ 2 car garage.

### PROJECT TEAM

ARCHITECT: ATLAS ASSOCIATS INTERNATIONAL GENG TAN, RA, LEED AP 206.488.3688 EMAIL: GENGTAN@GMAIL.COM

SURVEY: Site Surveying Inc. Thomas N. Woldendorp TNW@sitesurveymapping.com 425.298.4412

CIVIL: Anstey Engineering Ben Anstey 206.303.7639 benanstey@ansteyengineering.com

STRUCTURE: GL Architectural Engineering Nick Lu 360.747.7509 AKEGL2002@gmail.com

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Atlas Associates International 5280 Highland Dr. Bellevue, washington 98006 206.488.3688 v gengtan®gmail.com www.Atlascreate.com

# Mercer New House

2423 63rd Ave SI Mercer Island, WA 98040

project no: 53-19



Issue/Revision:

NO. ISSUED FOR

Drawn By

Sheet Title

TG/UW

DATE

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> Checked By ΤG

Date 8/2017

PROJECT DATA



Sheet Number



### <u>GENERAL NOTES</u>

# 1

1.01 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC), 2015 INTERNATIONAL RESIDENTIAL CODE(IRC)., AND THE CURRENT ELECTRICAL AND MECHANICAL CODES ADOPTED BY THIS JURISDICTION. PER SMC 16.20.050 SCOPE: THE PROVISIONS OF THE INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO-FAMILY DWELLINGS SHALL APPLY TO THE CONSTRUCTION... OF DETACHED ONE AND TWO FAMILY DWELLINGS, ...NOT MORE THAN THREE STORIES IN HEIGHT ABOVE GRADE PLANE WITH SEPERATE MEANS OF EGRESS AND THEIR ACCESSORY STRUCTURE THAT ARE NOT MORE THAN THREE STORIES IN EHIGHT ABOVE GRADE PLANE.

1.03 A COPY OF THE 2015 IRC IS REQUIRED TO BE USED IN CONJUNCTION WITH THESE PLANS BY THE GENERAL CONTRACTOR OR OWNER-BUILDER. THE 2015 IRC SHALL BE USED TO INTERPRET THE PLANS AND TO DIRECT, AND CHECK THE WORK. (2015 IRC AVAILABLE FROM BOOK SELLER.)

1.11 THE CONTRACTOR SHALL INFORM THE LOCAL BUILDING DEPARTMENT AND INSPECTION AGENCIES WHEN INSPECTIONS OR TESTS ARE REQUIRED TO CONFORM WITH BUILDING CODE REQUIREMENTS.

1.12 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW, UNDERSTAND, AND COORDINATE THEIR WORK WITH APPLICABLE CODE, ORDINANCES, REGULATIONS, AND THESE DRAWING PRIOR TO INSTALLATION OF THEIR WORK. ANY DISCREPANCY BETWEEN THE DRAWINGS AND CODES, ORDINANCES, AND REGULATION SHALL BE BROUGHT TO ATLAS ASSOCIATES FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

1.13 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR HANDLING AND INSTALLATION OF ALL PRODUCTS USED IN THIS PROJECT. IF A DISCREPANCY ARISES BETWEEN THE INFORMATION ON THIS PLAN AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, CONTACT ATLAS ASSOCIATES.

1.14 THE CONTRACTOR SHALL USE THE SIMPSON C-2016 CATALOG IN CONJUNCTION WITH THESE PLANS TO MAKE CERTAIN THE INSTALLATION AND FASTENINGS FOR ALL SPECIFIED SIMPSON HARDWARE ARE PER THE MANUFACTURER'S SPECIFICATIONS. SIMPSON 800-999-5099

1.15. WORKER SAFETY ON THIS PROJECT DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FURTHER, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, ENGINEERING, AND IMPLEMENTATION OF: SHORING TO PROTECT WORKERS FROM CAVE IN; TEMPORARY STRUCTURAL SHORING AND BRACING TO HOLD MEMBERS UP, DOWN OR INTO PLACE; SAFETY MEASURES FOR USE OF EQUIPMENT; FALL PROTECTION MEASURES INCLUDING USE OF PRESCRIBED GUARD RAILS, ANCHORS, AND SCAFFOLDING; AND ALL OTHER SAFETY PRECAUTIONS AS PRESCRIBED BY THE LAWS OF WASHINGTON STATE AND BY THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

1.16. THE CONTRACTOR SHALL OBTAIN, READ, AND KEEP ON THE JOBSITE MATERIAL SAFETY DATA SHEETS (MSDS) AS IS REQUIRED BY OSHA REGULATION. LIKEWISE THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL REQUIRED SAFETY MEASURES TO KEEP THE WORKERS SAFE WHILE HANDLING OR STORING THESE MATERIALS DURING CONSTRUCTION.

1.17. THE CONTRACTOR IS RESPONSIBLE TO MAKE CERTAIN THAT ALL WORKERS ON THIS PROJECT ARE COVERED AT ALL TIMES BY THE WASHINGTON STATE INDUSTRIAL INSURANCE PROGRAM OR ARE PRINCIPALS IN A WASHINGTON STATE REGISTERED AND BONDED CONTRACTING COMPANY. CONTACT THE WASHINGTON STATE DEPARTMENT OF LABOR AND INDUSTRIES FOR INFORMATION ON ALL SAFETY RULES THAT MUST BE FOLLOWED DURING CONSTRUCTION OF THIS PROJECT AT (425) 990-1402.

1.18 THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF ALL TEMPORARY MEASURES REQUIRED TO SECURE, WEATHER PROOF AND DUST PROOF THE WORK AND ANY EXISTING STRUCTURE(S) WHICH ARE EFFECTED BY THE WORK.

1.19. IN THE EVENT THE PROPERTY OWNER OR ANY AGENT OF THE PROPERTY OWNER ASSUMES ANY RESPONSIBILITIES NORMALLY UNDERTAKEN BY A CONTRACTOR IN THE COURSE OF CONSTRUCTION OF THIS PROJECT, THE PROPERTY OWNER OR HIS AGENT SHALL FOLLOW ALL RULES, REGULATIONS, AND PRACTICES AS WOULD BE REQUIRED OF A LICENSED GENERAL CONTRACTOR, INCLUDING HIRING ONLY LICENSED AND BONDED SUB-CONTRACTOR.

1.22. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO PROVIDE A GEOTECHNICAL REPORT FOR THIS PROPERTY SHOULD ONE BE REQUIRED. IN LIEU OF A GEOTECHNICAL REPORT ATLAS ASSOCAITES HAS MADE CERTAIN ASSUMPTIONS ABOUT SOILS CONDITIONS THAT HAVE AFFECTED THE DESIGN AND ENGINEERING OF THIS PROJECT. ATLAS ASSOCIATES IS NOT RESPONSIBLE FOR SUB-SURFACE SOIL CONDITIONS NOR FOR ANY COSTS ASSOCIATED WITH UNANTICIPATED SOILS CONDITIONS. SHOULD ADVERSE SOILS CONDITIONS BE ENCOUNTERED THE CONTRACTOR OR PROPERTY OWNER SHALL CONTACT A GEOTECHNICAL ENGINEER AND ATLAS ASSOCIATES IMMEDIATELY. WORK SHALL NOT PROCEED WITHOUT A WRITTEN GEOTECHNICAL EVALUATION, OR A WRITTEN AUTHORIZATION FROM ATLAS ASSOCIATES OR AN APPROVAL BY A BUILDING OFFICIAL TO RESTART THE WORK.

ADDITIONAL ENGINEERING AND DRAFTING PERFORMED BY STRUCTURE ENGINEER WHICH IS REQUIRED FOR FOUNDATION RE-DESIGN AS A RESULT OF SUB-SURFACE CONDITIONS WILL BE AT ADDITIONAL COST TO THE PROPERTY OWNER.

1.24. ATLAS ASSOCIATES IS NOT INFALLIBLE AND HUMAN ERROR MAY OCCUR. ATLAS ASSOCIATES SHALL RE-DRAW THE PLANS AS REQUIRED AT NO COST IF A DESIGN ERROR OR OMISSION OCCURS. THIS SHALL BE THE LIMIT OF THE LIABILITY OF ATLAS ASSOCIATES., OR ANY OF ITS PRINCIPALS OR EMPLOYEES, TO REPAIR DAMAGES CAUSED BY ANY SUCH ERROR OR OMISSION. THESE NOTES MEET OR EXCEED THE 2015 INTERNATIONAL RESIDENTIAL CODE (2015 IRC)

AN AUTOMATIC SPRINKLER SYSTEM CONFORMING TO IRC SECTION P2904 OR NFPA 13D IS REQUIRED. IT SHALL BE BIDDER DESIGNED WITH A DIFFERED PERMIT SUBMITTAL.

SMOKE AND CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: A) IN EACH SLEEPING ROOM.

B) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

C) ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS. BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS.

IN DWELLINGS OR DWELLING UNITS WITH SPLIT-LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS. AN ALARM INSTALLED ON UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL. PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.

D) THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL HOME.

E) ALL ALARMS SHALL BE HARD WIRED WITH BATTERY BACK-UP. UNLESS ALARMS ARE INSTALLED IN AREAS REQUIRING DRYWALL REMOVAL AND REPLACEMENT, IN WHICH CASE THEY MAY BE BATTERY ONLY OPERATED.

F) IN LIEU OF SMOKE ALARMS AS DESCRIBED ABOVE , A SMOKE DETECTION SYSTEM MAY BE INSTALLED IN ACCORDANCE WITH NFPA 72 THAT INCLUDES SMOKE DETECTOR AND AUDIBLE ALARMS; TO BE DESIGNED AND PERMITTED AND INSTALLED BY A QUALIFIED ALARM CONTRACTOR.

2.17 SINGLE STATION CARBON MONOXIDE ALARMS, COMPLYING WITH UL 2034 TO BE INSTALLED IN THE IMMEDIATE VICINITY OF BEDROOM DOORS. INCLUDING EXISTING BEDROOM AREAS. EVEN IF THESE WILL BE NO WORK IN OR AROUND THOSE BEDROOM AREAS.

2.21 BEDROOM EGRESS OPENING: EVERY NEW ROOM USED FOR SLEEPING PURPOSE SHALL HAVE AT LEAST ONE WINDOW OR EXTERIOR DOOR FOR EMERGENCY EXIST OR RESCUE. WINDOWS SHALL HAVE A FINISH SILL HEIGHT OF NOT MORE THAN 44 INCHES, A CLEAR OPERABLE AREA OF NOT LESS THAN 5.7 SQFT OF AREA (FIVE SQUARE FEET OF AREA ON GROUND FLOOR). MINIMUM NET CLEAR OPENINGS OF 24 INCHES FOR HEIGHT. AND A MINIMUM 20 INCHES FOR WIDTH.

2.31 FIRE SEPARATION BETWEEN GARAGE AND HOUSE.

A) SEPARATE THE GARAGE FROM THE RESIDENCE, ROOM ABOVE, AND ITS ATTIC AREA WITH  $\frac{5}{8}$ " TYP X GYPSUM WALL BOARD (GWB) APPLIED TO THE GARAGE SIDE-FIRE TAPE.

B) IN LIEU OF DRYWALLING A CEILING UNDER AN ATTIC AREA; RUN THE  $\frac{5}{8}$ " TYPE X GWB TO THE BOTTOM OF THE ROOF SHEATHING-FIRE TAPE.

C) POSTS, BEAMS AND OTHER STRUCTURAL MEMBERS SUPPORTING THE SEPERATION SHALL ALSO BE PROTECTED BY NOT LESS THAN  $\frac{5}{8}$ " GWB-FIRE TAPE.

D) OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID CORE WOOD DOORS NOT LESS THAN 1<sup>3</sup>/<sub>8</sub>" THICKNESS; SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 <sup>3</sup>/<sub>8</sub>" THICK; OR 20-MINUTE FIRE-RATED DOORS EQUIPPED WITH A SELF-CLOSING DEVICE.(PER R302.5.1). ACCESS DOORS FROM A GARAGE TO A CRAWL SPACE OR ATTIC SHALL BE OVERLAID WITH <sup>5</sup>/<sub>8</sub>"TYPE X GWB.

2.35. FIREBLOCKING TO BE INSTALLED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY

AND THE ROOF SPACE. FIREBLOCKING TO BE PROVIDED IN THE FOLLOWING LOCATIONS: - TO ISOLATE CONCEALED SPACES OF STUD WALLS; VERTICALLY AT CEILING AND FLOOR LEVELS - HORIZONTALLY IN STUD WALLS EXCEEDING 10' IN HEIGHT

- AT SOFFITS AND LOWERED CEILINGS AND FLOORS

- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH FIBERGLASS INSULATION, STUFFED TIGHT INTO ALL OPENINGS.

2.41. GLAZING SUBJECT TO HUMAN IMPACT TO BE TEMPERED GLASS. TEMPERED GLASS TO BE PERMANENTLY ETCHED BY THE MANUFACTURER (SECTION R308.4). THE FOLLOWING ARE TYPICALLY ENCOUNTERED SITUATIONS WHERE SAFETY GLAZING IS REQUIRED:

A). ALL GLAZING IN DOORS OR GLAZING WITHIN 24" MEASURED HORIZONTALLY FROM EDGE OF AN OPENING DOOR TO BE TEMPERED GLASS. FIXED PANELS IN SLIDING GLASS DOORS OR SIDELIGHTS SHALL BE TEMPERED GLASS. BUT ADJOINING GLAZING FURTHER THAN 24" FROM THE OPENING DOOR

B). ALL GLAZING WITHIN 18" OF FLOOR OR WALKING SURFACE.

SHALL NOT BE REQUIRED TO BE SAFETY GLAZING.

C) ALL GLAZING IN STAIRWELL OR LANDING WITHIN 60" (MEASURED VERTICALLY ) OF THE WALKING SURFACE TO BE TEMPERED GLASS. IN ADDITION, ALL GLAZING WITHIN 60" (MEASURED HORIZONTALLY) FROM THE NOSE OF THE BOTTOM STAIR TREAD TO BE TEMPERED GLASS; AND ALL GLAZING WITHIN 36"(MEASURED HORIZONTALLY ) OF THE NOSE OF TOP TREAD OF ANY RUN OF STAIRS TO BE TEMPERED GLASS; PROVIDED SUCH GLAZING IS WITHIN 60" VERTICALLY OF THE WALKING SURFACE.

D) ALL GLAZING IN SHOWER OR BATH TUB ENCLOSURE, AND IN ALL WINDOWS IN WALLS ENCLOSING SHOWER OR BATH TUBS WHERE BOTTOM EDGE OF THE GLAZING IS WITHIN 60" VERTICALLY OF THE FLOOR OR WALKING SURFACE. ALSO GLAZING WITHIN 60" HORIZONTALLY FROM THE WATER EDGE OF A BATH TUB (AND WITHIN 60" VERTICALLY OF THE WALKING SURFACE) TO BE TEMPERED GLASS.

2.51. HABITABLE ROOMS, HALLWAYS, CORRIDORS, BATHROOMS, TOILET ROOMS, LAUNDRY ROOMS, AND BASEMENTS TO HAVE A CEILING HEIGHT OF NOT LESS THAN SEVEN FEET. THE REQUIRED HEIGHT TO BE MEASURED FROM THE FINISH FLOOR TO THE LOWEST PROJECTION FROM THE CEILING. CONTACT ATLAS ASSOCIATES PRIOR TO COMMENCING WORK IF THERE ARE ANY HEIGHT ISSUES IN HABITABLE ROOMS.

2.61 BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWERHEADS, AND IN SHOWER COMPARTMENTS, TO BE FINISHED WITH TILE OR OTHER NONABSORBENT SURFACE. ALL SHOWER ENCLOSURES OTHER THAN ACRYLIC UNITS TO RECEIVE ½" CONCRETE BOARD TILE BACKING-TAPE JOINS WITH FIBERGLASS TAPE AND THIN SET (THIS INCLUDES TUB DECKS AND SKIRTS) MIN HEIGHT ABOVE SHOWER PAN 80". DO NOT USE DRYWALL OF ANY TYPE BEHIND TILE OR OTHER FINISHES IN A SHOWER OR TUB SURROUND. MUDSET SHOWER PAN TO BE BIDDER DESIGNED AND CONSTRUCTED PER BEST INDUSTRY PRACTICE. SLOPE ALL SURFACE AREA TO DRAIN. TEST SHOWER PANS BY FILLING OVERNIGHT PRIOR TO INSTALLING FINISH SURFACES.

2.71 STAIRWAYS & GUARDRAILS: SEE NOTES SHEET A4.9

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-	3.11. SPECIFICATIONS, CONSTRUCTION, FASTENINGS, AND ASSEMBLIES OF ALL STRUCTURAL ELEMENTS SHALL BE CONTROLLED BY DOCUMENTS PROVIDED BY THE STRUCTURAL ENGINEER. ALL DIMENSIONS (OTHER THAN MEMBER SIZES) AND ALL ARCHITECTURAL DETAILS AND FINISHES SHALL BE CONTROLLED BY DOCUMENTS PROVIDED BY ATLAS ASSOCIATES. IF A DISCREPANCY BETWEEN DOCUMENTS PROVIDED BY ATLAS ASSOCIATES AND DOCUMENTS PROVIDED BY THE STRUCTURAL ENGINEER OCCURS, CONTACT ATLAS ASSOCIATES OR THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
	3.12 THE CONTRACTOR SHALL CONSULT ATLAS ASSOCIATES OR STRUCTURAL ENGINEER BEFORE ANY FRAMING MODIFICATIONS; INCLUDING BUT NOT LIMITED TO WALL PENETRATIONS AND CUTTING OR DRILLING OF BEAMS.
	3.13 ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF BEAM, FACE OF CONCRETE STEM WALL, OUTSIDE EDGE OF CONCRETE FLATWORK, OUTSIDE OF DECK FRAMING. CENTER OF POSTS AND PIERS.
l	3.14. DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS AS SHOWN AND ACTUAL FIELD MEASUREMENTS; NOTIFY ATLAS ASSOCIATES OF ANY DISCREPANCIES.
	3.15. THE CONTRACTOR IS ENCOURAGED TO RECYCLE ALL MATERIALS POSSIBLE.
	3.21 IF GROUND WATER IS ENCOUNTERED DURING EXCAVATION CONTACT ATLAS ASSOCIATES OR A SOILS ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION OF THE FOUNDATION.
	3.22 IF, ONCE THE FOUNDATION IS BUILT, GROUND WATER IS OBSERVED INSIDE THE CRAWL SPACE OR BASEMENT, CONTACT ATLAS ASSOCIATES PRIOR TO POURING BASEMENT SLAB OR FRAMING OVER CRAWL SPACE.
	3.25. THE HEIGHT OF ALL FOUNDATION WALLS TO BE ESTABLISHED SO THAT A MINIMUM 8" IS LEFT BETWEEN ANY NON-PRESSURE TREATED WOOD OR OTHER MATERIALS SUSCEPTIBLE TO DECAY AND THE FINISH GRADE.
:	3.31. CONCRETE:
I	A). UNLESS OTHERWISE SPECIFIED, ALL CONCRETE USED IN THIS PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
I	B). CONCRETE FLATWORK EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED, (BETWEEN 5% AND 7% AIR CONTENT BY VOLUME OF CONCRETE).
	C). CONCRETE FOR FOUNDATIONS MUST BE POURED WITH A SLUMP NOT EXCEEDING 6".
	D). MECHANICALLY VIBRATE WET CONCRETE IN FORMS TO CONSOLIDATE AROUND EMBEDDED REINFORCING AND INTO CORNERS.
	3.35. THE EMBEDDED PORTIONS OF ALL HOLD-DOWNS SHALL BE IN PLACE AT FOUNDATION INSPECTION AND SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS. LOCATION OF HOLD DOWNS MUST BE CAREFULLY DETERMINED AND MUST ALIGN WITH THE CORRESPONDING FRAMING MEMBERS ABOVE. LOCATION AND INSTALLATION PER MANUFACTURER'S SPECIFICATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
	3.37. FOR BASEMENTS OR ANY AREAS WITH FLOORS BELOW GRADE, DAMPPROOFING THE FOUNDATION WALLS IS NOT ACCEPTABLE BY ITSELF. A WATERPROOF SPRAY APPLIED MATERIAL SHALL BE USED, COVER THE TOP OF ALL FOOTINGS. THEN COVER THE WATERPROOFING WITH A DRAINAGE MATT PRIOR TO BACKFILL. A TRAINED AND MANUFACTURER CERTIFIED SPECIALTY SUB-CONTRACTOR MUST BE USED FOR THIS WORK.
	3.41. USE PRESSURE TREATED WOOD IN THE FOLLOWING LOCATIONS:
1	A). WHEN WOOD JOIST OR STRUCTURAL FLOORS WITHOUT JOISTS ARE LOCATED CLOSER THAN 18 INCHES, OR WOOD GIRDERS ARE LOCATED CLOSER THAN 12 INCHES TO EXPOSED GROUND IN CRAWLSPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
I	B). ALL WOOD-FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN EIGHT INCHES FROM EXPOSED GROUND.
	C). SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTRACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER.
	D). THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 0.5 INCH ON THE TOP, SIDES, AND ENDS.
	E). WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN EIGHT INCHES FROM THE GROUND.
:	F). WOOD STRUCTURAL MEMBERS SUPPORTING MOISTUREPERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER.
	G). WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS (SECTION R319).
	3.45. ALL JOIST HANGERS AND OTHER FRAMING HARDWARE USED IN CONJUNCTION WITH PRESSURE TREATED LUMBER TO BE SIMPSON ZMAX/ HDG WITH HOT DIPPED GALVANIZED FASTENERS. ADDITIONALLY, FOR HIGH EXPOSURE SITUATIONS OR FOR BURIED HARDWARE USE STAINLESS STEEL HARDWARE & FASTENERS.
	3.51. INSTALL GASKET SEALS BETWEEN MUDSILL FOR PONY WALLS IN BASEMENTS OR HEATED AREAS.

#### CRAWL SPACE REQUIREMENTS:

A) USE CAST IN PLACE FOUNDATION VENTS WITH PLASTIC FRAMES AND CORROSION RESISTANT  $\frac{1}{6}$ " WIRE MESH, PLACE PER PLAN.

B) INSTALL MOISTURE BARRIER OF 6 MIL BLACK PLASTIC SHEETING ON THE FLOOR OF CRAWL SPACE. LAP ANY JOINTS 12". LAP TOP OF ALL FOOTINGS.

C) ACCESS REQUIRED TO ALL UNDER-FLOOR SPACES. ACCESS OPENINGS THROUGH FLOOR PER PLAN, MINIMUM 22"X30", OPENINGS IN PERIMETER WALLS PER PLAN, MINIMUM SIZE 18"X30".

#### STAIR AND GUARD RAIL:

4.9.01 ALL STAIRWELLS TO HAVE MINIMUM 31 1/2" WIDE NET CLEAR WALK SPACE MEASURED FROM THE INSIDE OF ANY HANDRAILS.

4.9.05 ALL GLAZING IN A STAIRWELL OR LANDING WITHIN 60" (MEASURED VERTICALLY) OF THE WALKING SURFACE WILL BE TEMPERED GLASS. IN ADDITION, ALL GLAZING WITHIN 60"(MEASURED HORIZONTALLY) FROM THE NOSE OF THE BOTTOM STAIR TREAD WILL BE TEMPERED GLASS; AND ALL GLAZING WITHIN 36"(MEASURED HORIZONTALLY) OF THE NOSE OF THE TREAD OF ANY RUN OF STAIRS; PROVIDED SUCH GLAZING IS WITHIN 60" VERTICALLY OF THE WALKING SURFACE.

4.9.11 BALCONIES, DECKS, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW WILL HAVE GUARD RAILS NOT LESS THAN 36" IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30" ABOVE FLOOR OF GRADE BELOW WILL ALSO HAVE GUARD RAIL NOT LESS THAN 34" IN HEIGHT MEASURE VERTICALLY FROM THE NOSING OF THE TREADS.

4.9.15 LANDING REQUIREMENTS: THERE SHALL BE FLOOR OR LANDING ON EACH SIDE OF A DOOR, NOT MORE THAN 1.5" LOWER THAN TOP OF THRESHOLD AND HAVING A MINIMUM DEIMENSION OF 36" MEASURE IN DIRECTION OF TRAVEL. EXCEPTIONS: WHEN A STAIRWAY OF TWO OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF THE DOOR DOES NOT SWING OVER THE LANDING.

4.9.21. WINDING STAIRCASE: WINDING TREAD SHALL HAVE A MINIMUM TREAD DEPTH OF 10" MEASURED AS ABOVE AT A POINT 12" FROM THE SIDE WHERE TREADS ARE NARROWER. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6" AT ANY POINT. WITHIN ANY FLIGHT OF STAIRS, THE GREATEST WINDER TREAD DEPTH AT THE 12" WALK LINE SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".

4.9.25. ENCLOSED ACCESSIBLE SPACE UNDER STAIRS (CEILING, WALLS, SOFFITS) SHALL BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD. FIRE BLOCK ALL WALL AND VERTICAL CAVITIES WHICH SPAN ANY STAIR RISER.

4.21. UNLESS OTHERWISE SPECIFIED, ALL FRAMING LUMBER USED IN THIS PROJECT SHALL BE #2 HEM-FIR OR BETTER.

4.23 UNLESS OTHERWISE SPECIFIED FLOOR SHEATHING SHALL BE <sup>23</sup>/<sub>32</sub>" APA-RATED SHEATHING. MINIMUM PANEL INDEX <sup>32</sup>/<sub>16</sub>, TONGUE AND GROOVE, GLUED AND NAILED. UNLESS OTHERWISE SPECIFIED NAIL FLOOR SHEATHING WITH 10D AT 6" SPACING AT PANEL EDGES AND 8" AT SUPPORTS WHICH ARE NOT AT PANEL EDGES (FILED NAILING). ADHESIVE SHALL CONFORM TO APA AFG-01 AND SHALL BE INSTALLED IN A 3/8"DIAMETER CONTINUOUS BEAD. NAIL-OFF PANELS FULLY BEFORE ADHESIVE SET UP. AREA OF FLOORS WHICH IS SQUEAK AFTER THE BUILDING IS DRIES-IN WILL REQUIRE THE ADDITION OF #8X1 3/4" DECK SCREWS AT 8" O.C. TO ARREST THE FLOOR SQUEAKS. IF FRAMING IS TOO WET FOR ADHESIVE TO BOND, SUBSTITUTE #8X1 3/4"DECK SCREWS FOR NAILS.

BLOCKING, FURRING, SOFFITS, WIRE PLATES, AND DROP CEILINGS:

4.31. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL BLOCKING, BACKING, FIRE STOPS, AND FURRING REQUIRED BY THE UNIFORM MECHANICAL CODE; AND BY THE 2015 IBC, IRC; AND BY LOCAL CODES. THIS INCLUDES THE FOLLOWING:

A). FIRE BLOCKING OF FRAMED WALLS AND VERTICAL OPEN SPACES: AT ROOFS, CEILINGS, AND FLOORS; AND AT STAIR STRINGERS, LANDINGS, RIM OF TUB DECKS OR OTHER VOIDS OPEN TO WALL CAVITIES WHICH FIRE WITHIN SUCH A CAVITY COULD ESCAPE INTO ADJOINING CAVITIES.
B). FLAT BLOCK ANY UN-SHEATHED GABLE TRUSSES FOR ROOF FLASHING AS REQUIRED.

C). SOLID BLOCKING FOR ALL STRUCTURAL PANEL EDGES ON WALLS.
D). OTHER STRUCTURAL BLOCKING PER THE STRUCTURAL ENGINEER.
E). ALL BACKING REQUIRED FOR DRYWALL OR OTHER WALL FINISHES.
F). FIRE STOPS AT EACH FLOOR AND CEILING FOR ALL CHIMNEYS AND SHAFTS.

G). FURRING OVER CONCRETE WALLS AND OTHER PROTRUSIONS BEYOND WALLS AND CEILINGS FOR INSULATION AND WALL BOARD PER THE PLANS.

4.35. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF ALL SOFFITS REQUIRED TO HIDE MECHANICAL PIPES, DUCTWORK, ETC.. SOFFIT FRAMING SHOULD BE STRAIT, LEVEL, AND PLUMB. DO NOT END SOFFITS LEAVING SHORT GAPS TO WALLS, INSTEAD CONTINUE SOFFIT TO THE WALL. AVOID BUILDING SOFFITS WHERE THE END OF THE SOFFIT WILL PROTRUDE AROUND A CORNER, OR INTO A DOORWAY OR WINDOW. CONTACT ATLAS ASSOCIATES IF A GOOD FINISHED APPEARANCE IS IN DOUBT

PRIOR TO INSTALLING DRYWALL.

4.41. INSTALL A SIMPSON HRS416Z STRAP (ONE ON EACH SIDE OF TOP PLATES) ACROSS ANY PIPE CUT OUT TOP PLATES OF A LOAD BEARING OR LATERAL WALL IF THE CUT IS DEEPER THAN 50% OF THE WIDTH OF THE PLATE. USE 10D GALVANIZED TEKO NAILS TO FASTEN PLATES

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project no: 53-19



Issue/Revision:

NO. ISSUED FOR

DATE

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Checked By

8/2017

Date

### **GENERAL NOTES**

Scale

Drawn By

TG/UW

Sheet Number

SAFETY GLAZING:

1.41. GLAZING SUBJECT TO HUMAN IMPACT TO BE TEMPERED GLASS. TEMPERED GLASS TO BE PERMANENTLY ETCHED BY THE MANUFACTURER (SECTION R308.4). THE FOLLOWING ARE TYPICALLY ENCOUNTERED SITUATIONS WHERE SAFETY GLAZING IS REQUIRED:

A). ALL GLAZING IN DOORS OR GLAZING WITHIN 24" MEASURED HORIZONTALLY FROM EDGE OF AN OPENING DOOR TO BE TEMPERED GLASS. FIXED PANELS IN SLIDING GLASS DOORS OR SIDELIGHTS SHALL BE TEMPERED GLASS, BUT ADJOINING GLAZING FURTHER THAN 24" FROM THE OPENING DOOR SHALL NOT BE REQUIRED TO BE SAFETY GLAZING.

B). ALL GLAZING WITHIN 18" OF FLOOR OR WALKING SURFACE.

C) ALL GLAZING IN STAIRWELL OR LANDING WITHIN 60" (MEASURED VERTICALLY ) OF THE WALKING SURFACE TO BE TEMPERED GLASS. IN ADDITION, ALL GLAZING WITHIN 60" (MEASURED HORIZONTALLY) FROM THE NOSE OF THE BOTTOM STAIR TREAD TO BE TEMPERED GLASS; AND ALL GLAZING WITHIN 36" (MEASURED HORIZONTALLY ) OF THE NOSE OF TOP TREAD OF ANY RUN OF STAIRS TO BE TEMPERED GLASS; PROVIDED SUCH GLAZING IS WITHIN 60" VERTICALLY OF THE WALKING SURFACE.

D) ALL GLAZING IN SHOWER OR BATH TUB ENCLOSURE, AND IN ALL WINDOWS IN WALLS ENCLOSING SHOWER OR BATH TUBS WHERE BOTTOM EDGE OF THE GLAZING IS WITHIN 60" VERTICALLY OF THE FLOOR OR WALKING SURFACE. ALSO GLAZING WITHIN 60" HORIZONTALLY FROM THE WATER EDGE OF A BATH TUB (AND WITHIN 60" VERTICALLY OF THE WALKING SURFACE) TO BE TEMPERED GLASS.

WINDOW & DOOR ROUGH IN AND INSTALLATION REQUIREMENTS:

5.01. WINDOWS AND DOORS ARE CALLED OUT AS TO THE NOMINAL SIZE OF EACH UNIT. THE CONTRACTOR SHALL VERIFY ROUGH-IN DIMENSIONS WITH THE WINDOW AND DOOR MANUFACTURER PRIOR TO FRAMING OPENINGS.

5.02.IF THE BOTTOM OF ANY WINDOW IS MORE THAN 6' ABOVE EXTERIOR GRADE(UP TO 36" AWAY FROM THE BUILDING); NO OPENING PORTION OF THAT WINDOW IS ALLOWED WHICH IS NOT AT LEAST 24" ABOVE FIISHED FLOOR HEIGHT.

5.03. ALL WINDOWS AND EXTERIOR DOORS SHALL BE INSTALLED USING BEST PRACTICES AND AS SPECIFIED BY THE MANUFACTURER, INCLUDING WRAPPING ALL FRAMED OPENINGS WITH FLEXIBLE FLASHING, AND SETTING ALL WINDOW FLANGES ON A 3/8" BEAD OF CAULKING. AT TOP OF WINDOWS & EXTERIOR DOORS, INSTALL MIN 24 GA GALVANIZED FLASHING BETWEEN SIDING AND ANY WINDOW CASING. CAULK ALL PRIMED CASINGS AND TRIM TO WINDOW OR DOOR AND TO PRIMED SIDING; PRIOR TO FINISH PAINTING.

5.05. FLASH WITH MIN 24 GA GALV FLASHING BETWEEN SIDING AND ANY HORIZONTAL SURFACE NOT LAPPED BY SIDING INCLUDING RIM JOISTS OF ANY WOOD DECKS.

5.05. AVOID JOINTS IN FLASHINGS. IF A JOINT IS REQUIRED, LAY A 4" LONG PIECE OF THE FLASHING UNDER THE JOINT, AND INSTALL FLASHING OVER THIS BACKING PIECE WITH A BUTT JOINT LAID IN CAULKING.

5.11. ALL EXTERIOR WOOD TRIM SHALL BE CEDAR - DO NOT USE "WHITE WOOD".

5.13. USE OIL BASE PRIMER OR OIL BASED STAIN ON ALL WOOD EXPOSED TO EXTERIOR OF BUILDING PRIOR TO INSTALLATION. PRIME OR STAIN (4) SIDES AND END CUTS.

5.15. FINISH PAINT WITH SPRAY APPLIED PAINT OR STAIN AS SELECTED BY OWNER.

CAPTURED AIRSPACES:

5.21. VENTILATE AT TOP AND BOTTOM ANY VOIDS OR AIRSPACES CAPTURED IN ENCLOSED WOOD FRAMING OR PARAPETS NOT COVERED BY A ROOF. USE PRESSURE TREATED PLYWOOD AND LUMBER TO CONSTRUCT SUCH FRAMING. ANY CAPS TO SUCH FRAMING SHALL BE CONSTRUCTED OF MIN 24 GA. GALVANIZED METAL - NO EXPOSED WOOD CAPS. VENTILATION SHALL BE DESIGNED TO BE PROTECTED FROM THE ELEMENTS. IF NEEDED, CONTACT ATLAS ASSOCIATES PRIOR TO PROCEEDING WITH THE WORK.

#### MECHANICAL:

5.31. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, OWNER SUPPLIED EQUIPMENT, AND OTHER EQUIPMENT.

5.33. THE CONTRACTOR SHALL VERIFY/ADJUST SIZES AND LOCATIONS OF ALL EQUIPMENT PADS AND BASES, POWER, WATER AND DRAIN INSTALLATIONS BEFORE PROCEEDING WITH THE WORK.

5.35. ALL PIPING IN CEILING AND EXTERIOR WALLS SHALL BE ON THE WARM SIDE OF THERMAL INSULATION.

#### SPRAY FORM INSULTATION:

5.41. ALL SPRAY FOAM INSULATION SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 (ASTM E 84 TESTING)

#### WALL FINISH:

5.51. ALL GYPSUM WALL BOARD (GWB) INSTALLED ON CEILINGS INSIDE THE RESIDENCE SHALL BE 5/8" THICK OR  $\frac{1}{2}$ " THICK CEILING RATED GWB, AND SHALL BE MANUFACTURED IN THE USA.

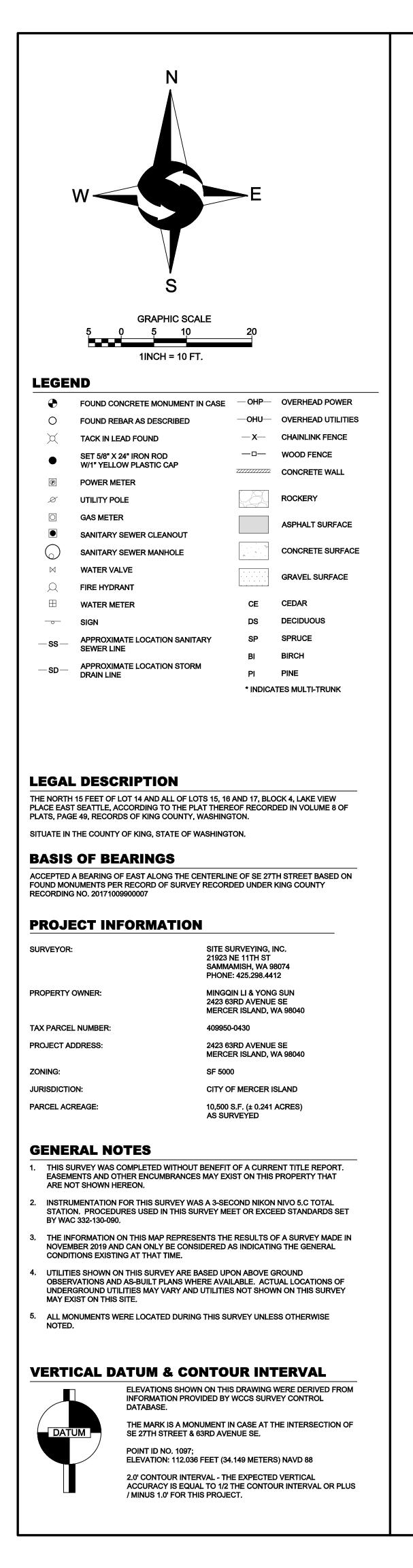
5.53. THE MINIMUM FINISH FOR ALL GWB INSIDE THE RESIDENCE SHALL BE A LIGHT "ORANGE PEEL" TEXTURE. WALLS SHALL BE PRIMED WITH LOW PERM PVA PRIMER PRIOR TO THE LAST COAT OF DRYWALL COMPOUND. WALLS AND CEILINGS SHOULD BE CHECKED WITH A PORTABLE LIGHT AND TOUCHED UP AS REQUIRED PRIOR TO TEXTURE.

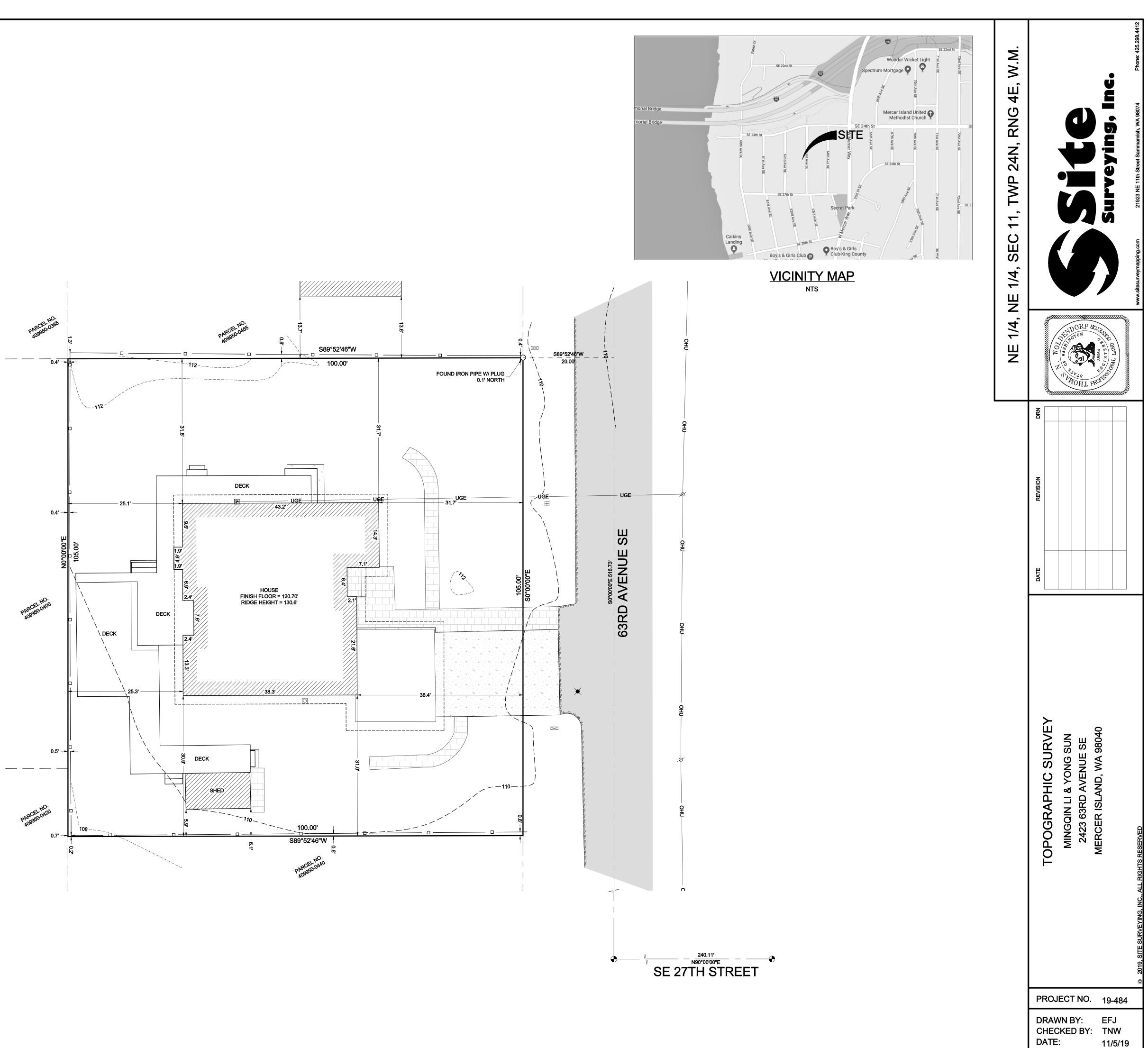
5.55. FINISH PAINT GWB WITH 2 COAT LATEX PAINT, SPRAY AND ROLL BEHIND OR ROLL. PAINT COLOR AND SHEEN AS SPECIFIED BY OWNER.

APPLIANCES AND FIXTURE:

5.65. ALL NEW APPLIANCES AND FIXTURES SHALL BE LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS "UL". LABELS SHALL BE AFFIXED TO APPLIANCES AND FIXTURES FOR INSPECTION BY THE BUILDING OFFICIAL.

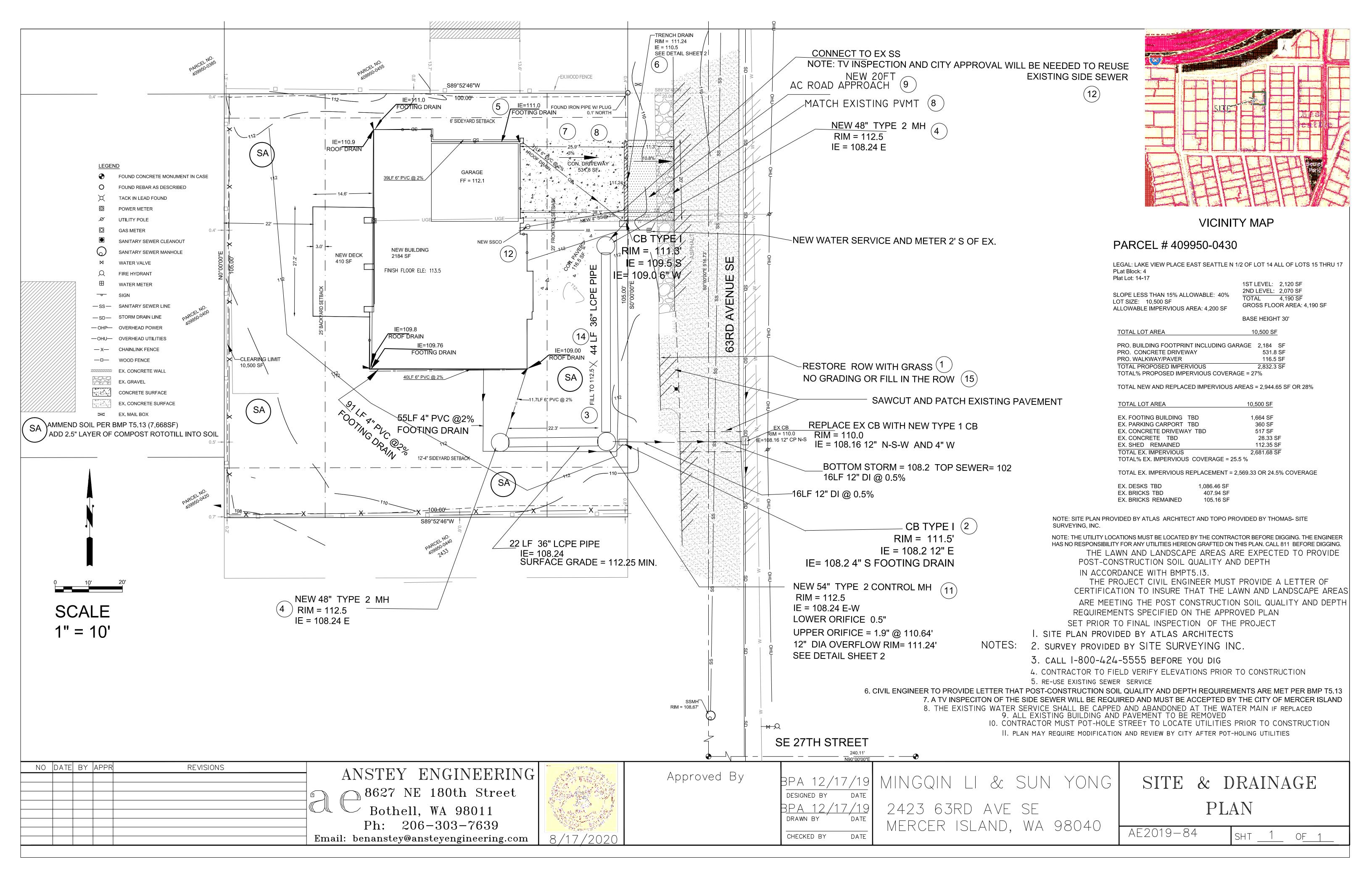
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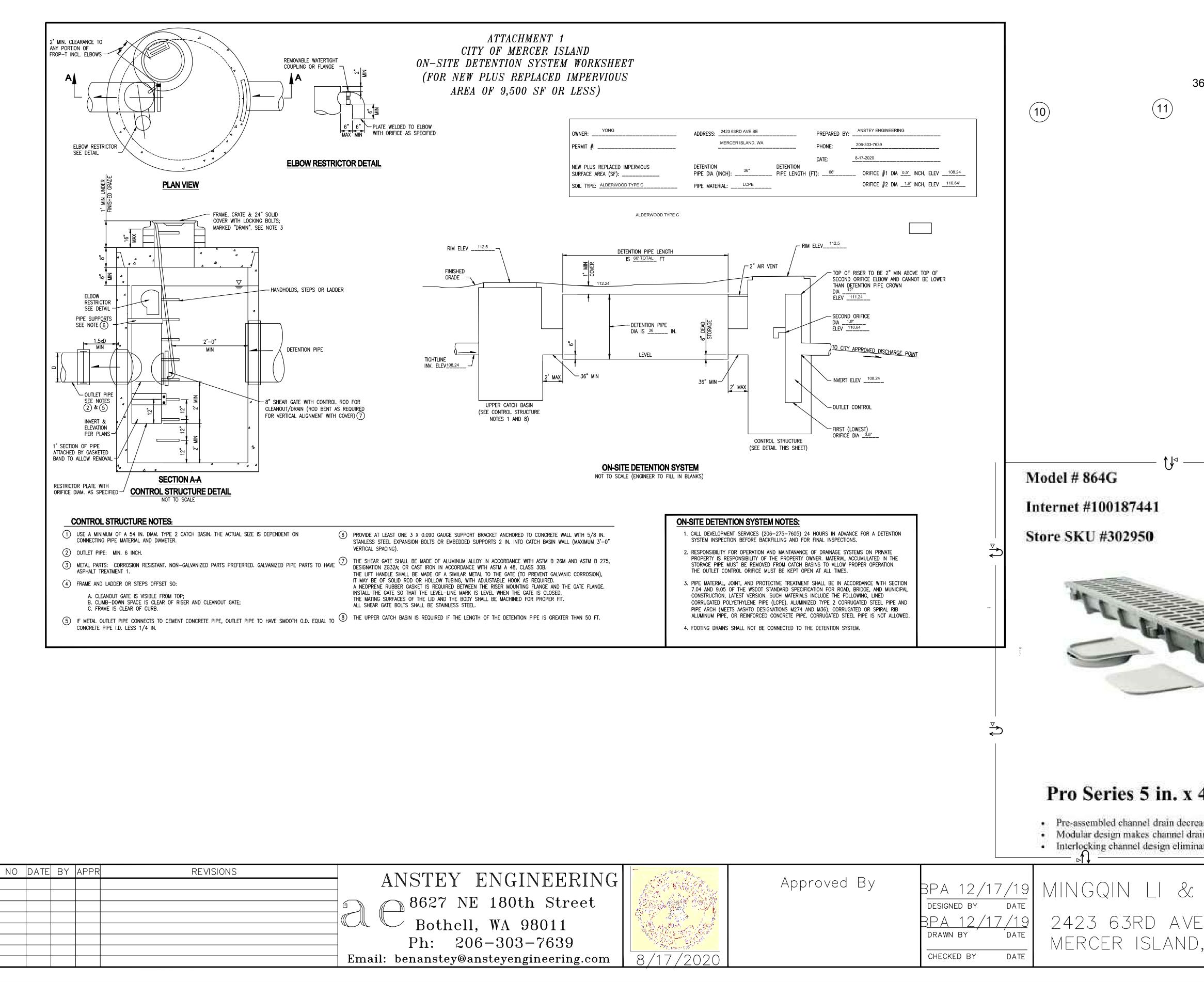




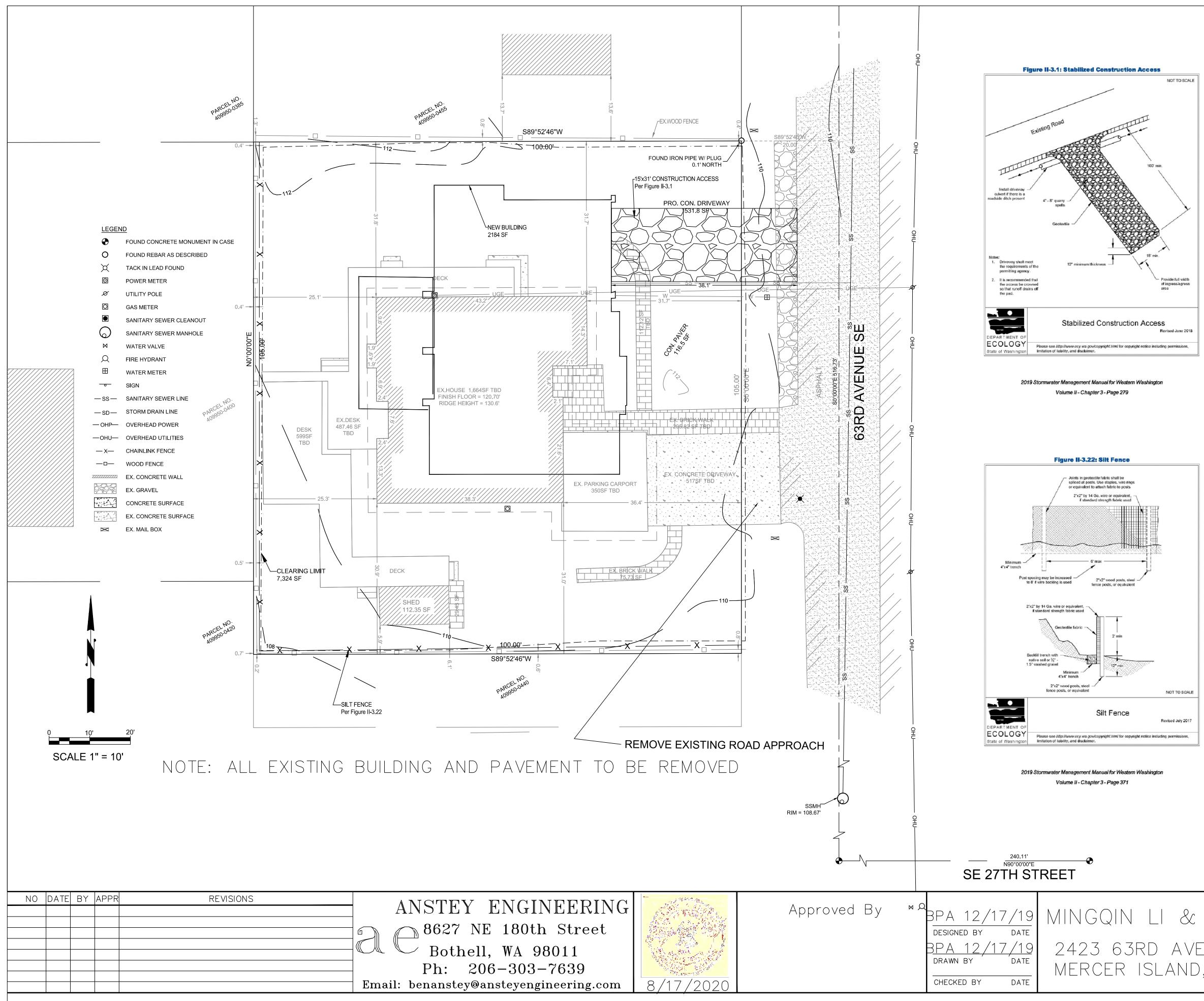
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		ON-SHE DETENTION	DESIGN FOR FRO	JECTS BET	WEEN 500 S	<b>ible 1</b> F AND 9,50	O SF NEW P	LUS REPLACED	DIMPERVIOUS	SURFACE A	REA	
		New and Replaced		the second se	ion Pipe th (ft)	1.00 0.00 0.00 0.00	Orifice er (in) <sup>(3)</sup>	No reactions	n Outlet Invert Orifice (ft)	11.000	l Orifice ter (in)	
		Impervious Surface Area (sf)	Detention Pipe Diameter (in) 36*	B soils	C soils	B soils	C soils	B soils	C soils	B soils	C soils	
	÷	500 to 1,000 sf	48" 60" 36"	18 11 66	11 7 43	0.5 0.5 0.5	0.5 0.5 0.5	3.3 4.2 2.2	3.2 3.4 2.3	0.9 0.5 0.9	0.8 0.6 1.4	-
TYPE C		1,001 to 2,000 sf	48* 60* 36*	34 22 90	23 14	0.5	0.5 0.5 0.5	3.2 4.3 2.2	3.3 3.6	0.9 0.9 0.9	1.2 0.9	
	-	2,001 to 3,000 sf	48* 60*	48 30	66 36 20	0.5 0.5 0.5	0.5 0.5	3.1 4.2	2.4 2.8 3.7	0.9	1.9 1.5 1.1	
		3,001 to 4,000 sf	36* 48* 60*	120 62 42	78 42 26	0.5 0.5 0.5	0.5 0.5 0.5	2.4 2.8 3.8	2.2 2.9 3.9	1.4 0.8 0.9	1.6 1.3 1.3	
		4,001 to 5,000 sf	36* 48* 60*	134 73 46	91 49 31	0.5 0.5 0.5	0.5 0.5 0.5	2.8 3.6 4.6	2.2 2.9 3.5	1.7 1.6 1.5	1.5 1.5 1.3	
	$\mathbf{c}_{\Delta}$	5,001 to 6,000 sf	36* 48*	162 90	109 59	0.5 0.5	0.5 0.5	2.7 3.5	2.2 2.9	1.8 1.7	1.6 1.5	
		6,001 to 7,000 sf	60° 36° 48°	54 192 102	37 128 68	0.5 0.5 0.5	0.5 0.5 0.5	4.6 2.7 3.7	3.6 2.2 2.9	1.6 1.9 1.9	1.4 1.8 1.6	
		7,001 to 8,000 sf	60* 36* 48*	64 216 119	43 145 79	0.5 0.5 0.5	0.5	4.6 2.8 3.8	3.6 2.2 2.9	1.8 2.0 2.2	1.5 1.9 1.7	
	1		60* 36*	119 73 228	49 155	0.5 0.5	0.5 0.5 0.5	3.8 4.5 2.8	3,6	2.0	1.7 1.6 1.9	
		8,001 to 8,500 sf <sup>(1)</sup>	48* 60* 36*	124 77 NA <sup>(I)</sup>	84 53 164	0.5 0.5 0.5	0.5 0.5 0.5	3.7 4.6 NA <sup>[1]</sup>	2.9 3.6 2.2	1.9 2.0 NA <sup>(1)</sup>	1.8 1.6 1.9	
		8,501 to 9,000 sf	48* 60*	NA <sup>111</sup> NA <sup>111</sup>	89 55	0.5 0.5 0.5	0.5	NA <sup>131</sup> NA <sup>131</sup>	2.2 2.9 3.6	NA <sup>(1)</sup> NA <sup>(3)</sup>	1.9 1.7	
		9,001 to 9,500 sf <sup>(2)</sup>	36* 48* 60*	NA <sup>[1]</sup> NA <sup>[1]</sup> NA <sup>[1]</sup>	174 94 58	0.5 0.5 0.5	0.5 0.5 0.5	NA <sup>[1]</sup> NA <sup>[1]</sup> NA <sup>[1]</sup>	2.2 2.9 3.7	NA <sup>(1)</sup> NA <sup>(1)</sup> NA <sup>(1)</sup>	2.1 2.0 1.7	
		<ul> <li>Sizing includes a Volume C</li> <li>Upper bound contributing</li> <li>On Type B soils, new plus exceeding 8,500 sf trigger</li> <li>On Type C soils, new plus exceeding 9,500 sf trigger</li> <li>Minimum orifice diameter in = inch ft = feet sf = square feet</li> </ul>	area used for sizi replaced impervi Minimum Requi replaced impervi Minimum Requi	ng. ous surface rement #7 ous surface	(Flow Contr areas	al) al)	Puget Sour SBUH, Typ 2-year, 24- storm = 3 i Predevelop soils, CN = Developed	nd Basin (1992 e 1A, 24-hour hour storm = 1 n; 100 year, 2 ped = second g 81 for Type C = impervious sediment stor	2 in; 10-year, 2 4-hour storm = growth forest ( soils)	ial) 4-hour 4 in CN = 72 for		
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nstallation exible for l the need fo	time. longer f r coupl	runs. lings. \$52,43 /	each	TE		<u>▶∩ -</u> &	D]	RA]	nd	(G		





### VICINITY MAP

### PARCEL # 409950-0430

LEGAL: LAKE VIEW PLACE EAST SEATTLE N 1/2 OF LOT 14 ALL OF LOTS 15 THRU 17 PLat Block: 4 Plat Lot: 14-17

LOPE LESS THAN 15% ALLOWABLE: 40% LOT SIZE: 10,500 SF ALLOWABLE IMPERVIOUS AREA: 4,200 SF 
 1ST LEVEL:
 2,120 SF

 2ND LEVEL:
 2,070 SF

 TOTAL
 4,190 SF

 GROSS FLOOR AREA:
 4,190 SF

BASE HEIGHT 30'

TOTAL LOT AREA10,500 SFPRO. BUILDING FOOTPRINT INCLUDING GARAGE2,184 SFPRO. CONCRETE DRIVEWAY531.8 SFPRO. WALKWAY/PAVER116.5 SFTOTAL PROPOSED IMPERVIOUS2,832.3 SF

TOTAL% PROPOSED IMPERVIOUS COVERAGE = 27%

TOTAL NEW AND REPLACED IMPERVIOUS AREAS = 2,944.65 SF OR 28%

TOTAL LOT AREA	10,500 SF
EX. FOOTING BUILDING TBD	1,664 SF
EX. PARKING CARPORT TBD	360 SF
EX. CONCRETE DRIVEWAY TBD	517 SF
EX. CONCRETE TBD	28.33 SF
EX. SHED REMAINED	112.35 SF
TOTAL EX. IMPERVIOUS	2,681.68 SF
TOTAL% EX. IMPERVIOUS COVERAGE = 25.5 %	,

TOTAL EX. IMPERVIOUS REPLACEMENT = 2,569.33 OR 24.5% COVERAGE

 EX. DESKS TBD
 1,086.46 SF

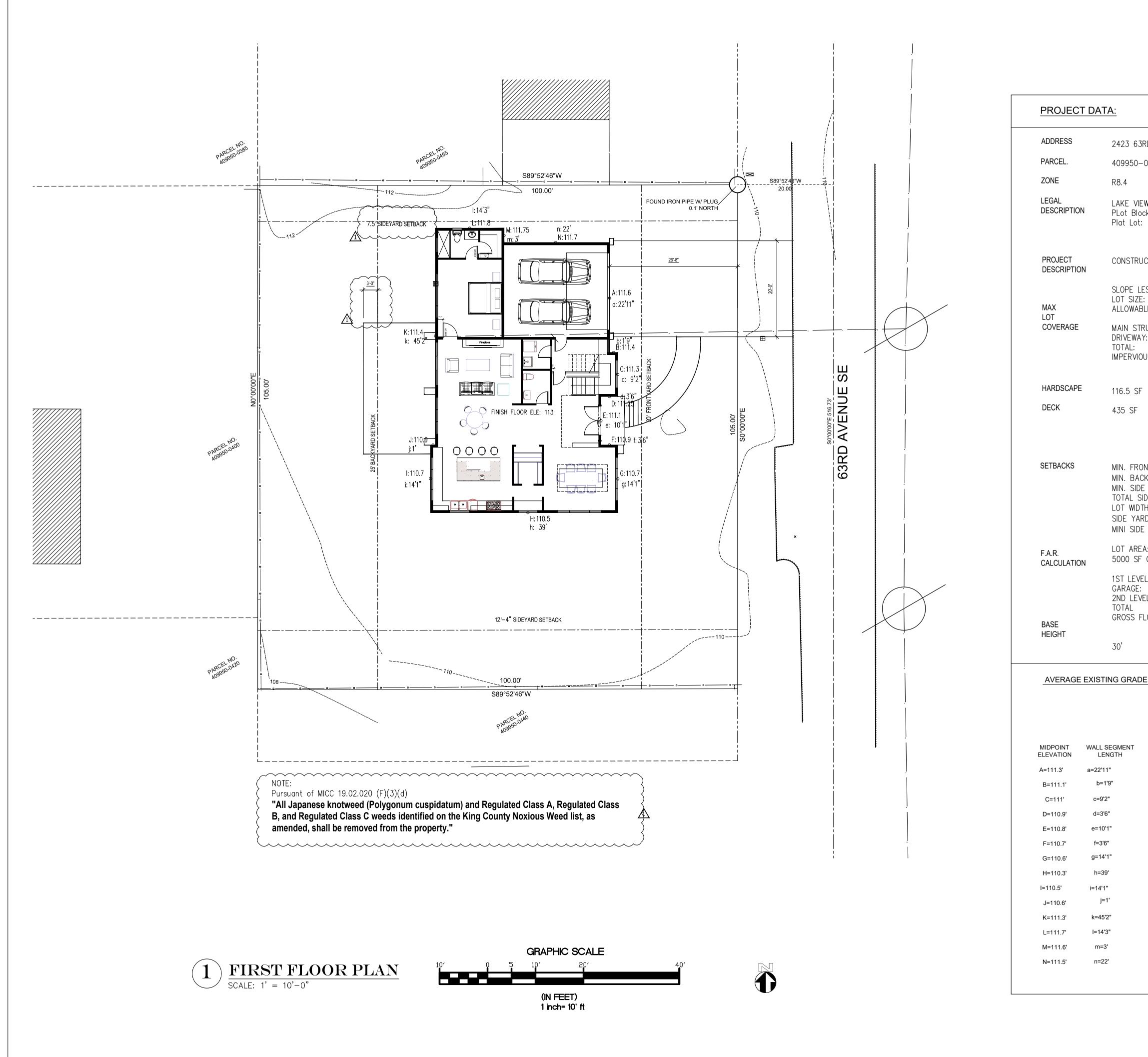
 EX. BRICKS TBD
 407.94 SF

 EX. BRICKS REMAINED
 105.16 SF

NOTE: SITE PLAN PROVIDED BY ATLAS ARCHITECT AND TOPO PROVIDED BY THOMAS- SITE SURVEYING, INC.

NOTE: THE UTILITY LOCATIONS MUST BE LOCATED BY THE CONTRACTOR BEFORE DIGGING. THE ENGINEER HAS NO RESPONSIBILITY FOR ANY UTILITIES HEREON GRAFTED ON THIS PLAN. CALL 811 BEFORE DIGGING.

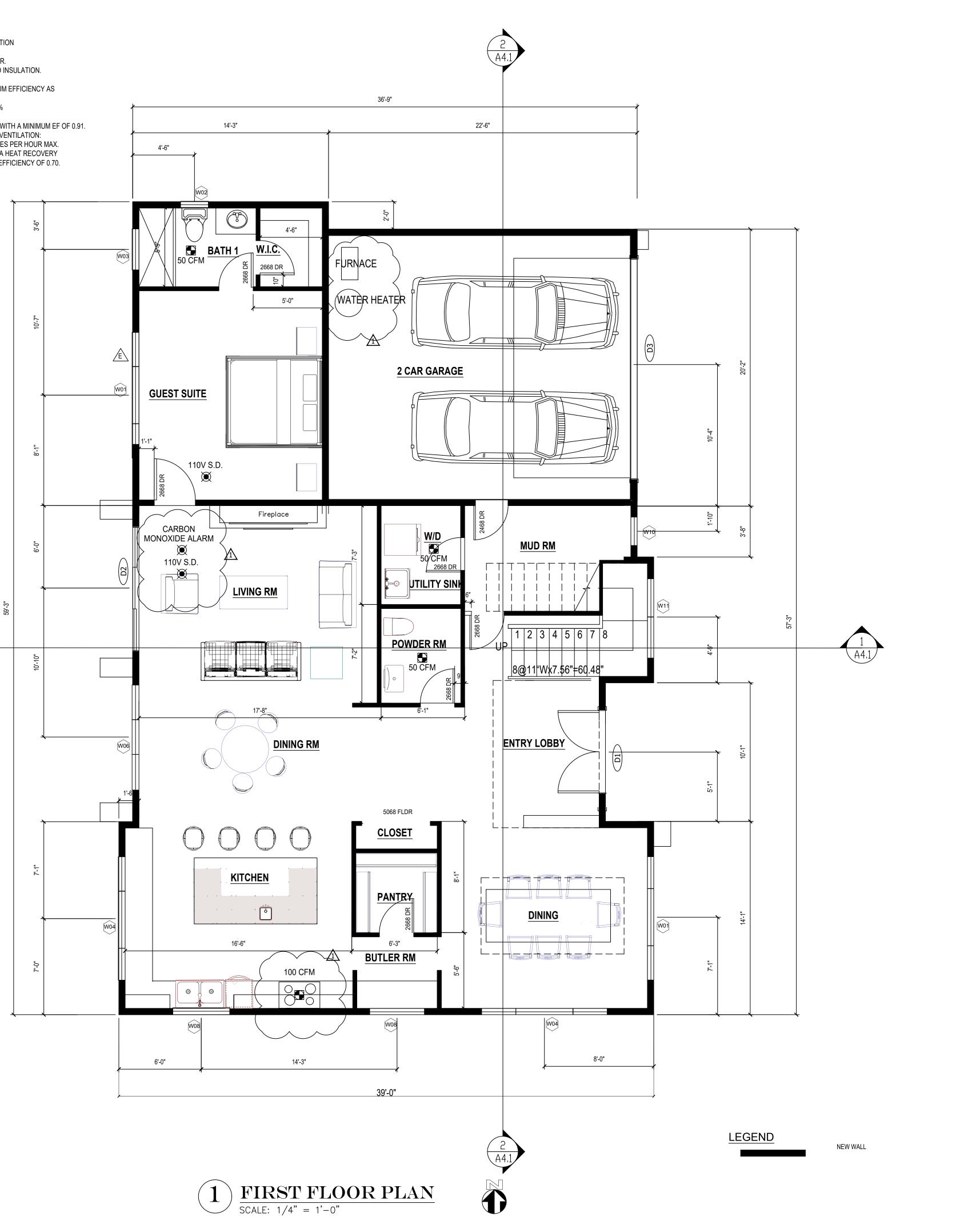
SUN YONG	TESC
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), WA 98040	AE2019-84 SHT <u>1</u> OF <u>1</u>



	Atlas Associates International         5280 Highland Dr.         Bellevue, washington         98006         206.488.3688 v         gengtan®gmail.com         www.Atlascreate.com
iRD Ave SE, Mercer Island, WA 98040 -0430	www.Atlascreate.com
EW PLACE EAST SEATTLE N $\frac{1}{2}$ OF LOT 14 ALL OF LOTS 15 THRU 17 ock: 4 : 14–17	Mercer New
JCTION A NEW SINGLE FAMILY RESIDENCE WITH 2 ATTACHED GARAGE	House
ESS THAN 15% ALLOWABLE: 40% E: 10,500 SF BLE IMPERVIOUS AREA: 4,200 SF	
RUCTURE ROOF AREA: 2,599 SF Y: 531.8 SF 3,130.8 SF DUS %= 29.8% < 40%	2423 63rd Ave SE Mercer Island, WA 98040 <b>project no: 53-19</b>
DNT SETBACK: 20' CK YARD SETBACK: 25' E SETBACKS: WHEN LOT IS MORE THAN 90 WIDTH, IDE SETBACK IS 17% OF LOT WIDTH TH: 107.33', RD TOTAL 17%= 18.2' E YARD 33% = 7.5'	STATE OF WASHINGTON
A: 10500 SF OR FAR 40% (WHICH IS LESS) = 4,200 SF EL: 1710 SF 443 SF EL: 2038 SF 4,191 SF LOOR AREA: 4,191 SF	
	Issue/Revision:
E & HEIGHT CALCULATION	1 4-29-2020 City Permit Comments Revision
AVERAGE BUILDING ELEVATION: =(A*a+B*b+C*c+D*d+E*e+F*f+G*g+H*h+I*i+J*j+K*k+L*I+M*m+N*n)	
a+b+c+d+e+f+g+h+i+j+k+l+m+n =(111.3*22.917+111.1*1.75+111*9.17+110.9*3.5+110.8*10.083+110.7*3.5+110.6*14.083+110.3*39 +110.5*14.083+110.6*1+111.3*45.167+111.7*14.25+111.6*3+111.5*22)	NO. ISSUED FOR DATE
202.503 =2550.66+194.425+1017.87+388.15+1117.2+387.45+1557.58+4301.7 +1556.17+110.6+5027+1591.725+334.8+2453 202.503	© 2015 ATLAS ARCHITECTS COMPANY THESE DRAWINGS ARE THE PROPERTY OF ATLAS ARCHITECTS COMPANY AND ARE NOT TO BE REPRODUCED IN ANY MANNER, EXCEPT WITH THE PRIOR WRITTEN PERMISSION OF ATLAS.
=22588.33 =111.5 202.503	Drawn By Checked By Date TG/UW TG 8/2017
AVERAGE BUILDING ELEVATION: =111.5'	Sheet Title SITE PLAN
	<sup>Scale</sup> <b>1' = 10'-0''</b> Sheet Number
	A1.0

ENERGY NOTES:

- 1. ALL EXTERIOR NEW WALLS SHALL HAVE R21 BATT INSULTATION
- 2. NEW ROOF @TRUSS SHALL HAVE R49 INSULATION 3. ALL NEW WINDOW SHOULD HAVE U FACTOR 0.30 OR BETTER.
- 4. NEW SLAB ON GRADE FOR ADDITION SHALL HAVE R10 RIGID INSULATION.
- 5. ENERGY CREDITS : A. 3a - 1 CREDIT- HVAC EQUIPMENT MUST HAVE A MINIMUM EFFICIENCY AS
- FOLLOWS:
- \*FURNACE (GAS, PROPANE OR OIL-FIRED): AFUE OF 94% \*BOILER (GAS, PROPANE OR OIL-FIRED): AFUE OF 92%
- B. 5c-1.5 CREDIT-GAS, PROPANE OR OIL WATER HEATER WITH A MINIMUM EF OF 0.91.
- C. 2b-1.0 CREDIT-AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION: -REDUCE THE TESTED AIR LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAX.
- -ALL WHOLE HOUSE VENTILATION SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINI SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.







#### PLAN NOTES:

- 1. USE CONVENTIONAL FRAMING AND SHEATHING U.N.O.
- 2. ALL EXTERIOR WALLS TO BE 2x6 FRAMING U.N.O.
- 3. ALL INTERIOR WALLS TO BE 2x4 FRAMING U.N.O.
- 4. ALL DOOR JAMBS TO BE SET OFF WALLS 6" TYP. U.N.O.
- 5. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.
- 6. ALL EXHAUST FANS ARE TO VENTED TO OUTSIDE.
- 7. DOOR HT. AT THIS FLOOR IS 6'-8", TYP.
- 8. ALL SMOKE DETECTORS MUST BE PROVIDED w/ PRIMARY POWER FROM BUILDING WIRING, PROVIDED w/ BATTERY BACKUP, AND BE INTERCONNECTED.
- 9. ESCAPE (EGRESS) WINDOW MUST HAVE A CLEAR OPENABLE AREA OF 5.7 S.F. w/ A MINIMUM NET CLEAR HEIGHT OF 24" AND WIDTH DIMENSION OF 20". THE SILL HEIGHT MUST NOT BE MORE THAN 44" ABOVE THE FLOOR.
- 10. ALL EXTERIOR COLUMNS, BEAMS, AND JOISTS THAT ARE EXPOSED TO THE WEATHER MUST BE PRESSURE-TREATED.
- 11. SHOWER COMPARTMENTS AND WALLS AROUND BATHTUBS WITH SHOWERS SHALL BE FINISHED WITH A SMOOTH NON-ABSORBANT SURFACE TO NOT LESS THAN 70" ABOVE THE DRAIN PER IBC SECTION 1210.2.3 AND 72" PER IRC SECTION 307.2 WATER-RESISTANT BACKING IS REQUIRED WHERE SHOWER & WATER CLOSET WALLS WILL BE FINISHED WITH TILE OR WALL PANELS. WHERE WATER RESISTANT GYPSUM IS USED A VAPOR BARRIER SHALL NOT BE USED.
- 12. EMERGENCY ESCAPE AND RESCUE OPENINGS

IBC SECTION 2509 AND 1210.2

- SHALL BE INSTALLED IN EVERY SLEEPING ROOM BELOW THE 4TH STORY AND IN BASEMENTS. \* OPENABLE W/O KEYS OR SPECIAL TOOLS
- \* MIN. 5.7 SF NET CLR OPENABLE AREA \* MIN. 24" NET CLR OPENABLE HEIGHT
- \* MIN. 20" NET CLR OPENABLE WIDTH
- \* MAX. 44" FINISHED SILL HEIGHT IRC SECTION R310 & IBC SECTION 1029.
- 13. WHOLE HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH IRC SECTION M1507.3.1 THROUGH M1507.3.7
- EACH DWELLING UNIT OR GUEST ROOM SHALL BE EQUIPPED W/ A VENTILATION SYSTEM COMPLYING W/ SECTION M1507.3.4, M1507.3.5, M1507.3.6 OR M1507.3.7. COMPLIANCE IS ALSO PERMITTED TO BE DEMOSTRATED THROUGH COMPLIANCE W/ THE INTERNATIONAL MECHANICAL CODE 403.8 (M1507.3)
- 14. STAIR LIGHTING ALL STAIRWAYS SHALL BE PROVIDED WITH LIGHT SOURCES. LIGHT ACTIVATION CONTROLS SHALL BE ACCESSIBLE AT THE TOP AND BOTTOM OF INTERIOR STAIRWAYS AND WITHIN DWELLING UNIT FOR EXTRIOR STAIRS IRC SECTIONS R303.7 & R303.8
- Guards & Handrails: Refer to Table R301.5 2015 IRC, the minimum uniformly distributed live load shall be as a single concentrated load applied in any direction at any point along the top 200 pounds per square foot. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail and to the load on the in-fill components. These loads shall be determined independent of one another, and loads are assumed not to occur with any other live load.
- 16. GARAGE SEPARATION: REQUIRES 12" GWB ON GARAGE SIDE. 8" TYPE "X" GWB IS REQUIRED WHERE THERE IS LIVING SPACE ABOVE. SUPPORTING COLUMNS, WALLS AND BEAMS USE  $\frac{1}{2}$ " GWB. IRC R 302.6.
- 17. GARAGE FLOOR SURFACE: THE AREA OF FLOOR USED FOR VEHICLE PARKING SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TOWARDS THE MAIN VEHICLE ENTRY DOOR WAY. IRC R 309.1.
- 18. ANCHORAGE OF APPLIANCE:

APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED OR ANCHORED IN AN APPROVED MANNER. UNITS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT CAUSED BY EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OR THE APPLIANCE'S VERTICAL DIMENSIONS. AT THE LOWER POINT, THE STRAPPING SHALL MAINTIAN A MINIMUM DISTANCE OF 4" ABOVE THE CONTROLS. UPS 507.2.

- 19. UNDER-FLOOR VENTILATION:
- SHALL NOT BE LESS THAN 1 S.F. FOR EACH 300 S.F. OF UNDER-FLOOR AREA. IRC R408.2.
- 20 ACCESS OPENINGS THROUGH THE FLOOR: SHALL BE MINIMUM OF 18"X24" AND A MINIMUM OF 16" X24" THROUGH THE PERIMETER WALL PER IRC R408.4.

#### VENTILATION REQUIREMENTS:

LOCAL EXHAUST (SRC M1507.3):				
BATHS, TOILET ROOMS & LAUNDRY ROOM	50 CFM INTERMITTENT			
KITCHENS	100 CFM INTERMITTENT			
<ul> <li>-PROVIDE MANUAL SWITCH, DEHUMIDISTAT, TIMER OR OTHER MEANS OF CONTROL.</li> <li>-RANGE HOOD: EXHAUST TO EXTERIOR INDEPENDENT OF ALL OTHER DUCTS. PROVIDE A BACK DRAFT DAMPER (SRC M1503)</li> <li>-PROVIDE CLOTHES DRYER EXHAUST DUCT INDEPENDENT OF ALL OTHER DUCTS.</li> <li>-TERMINATE EXHAUST OPENING AT NOT LESS THAN 3 FEET FROM PROPERTY LINES, MIN. 3 FT FROM OPENING INTO THE BUILDING, (SRC M1506.3)</li> <li>-EXHAUST FAN VENTS SHALL TERMINATE OUTDOORS AND NOT IN ATTICS, SOFFITS, RIDGE VENTS, OR CRAWL SPACES.</li> </ul>				
WHOLE HOUSE (SRC M1507.3 and SRC Table M15	07.3.3(1)):			
90 CFM CONTINUOUS				
<ul> <li>MIN 4 SI SCREENED OURDOOR AIR INLET REQUIRED</li> <li>PROVIDE 24 HOUR CLOCK TIMER CONTRO</li> <li>PROVIDE SCREENED OUTDOOR AIR INLE ROOM-WALL PORT OR WINDOW VENT AS</li> <li>WHF FAN TO BE MAXIMUM 1.0 SONE ( SRO</li> </ul>	OL. TS OF 4 SQ IN PER HABITABLE 5 REQUIRED			
CRAWL SPACE VENT CALCULATION	<u>N:</u>			
VENT CALCULATION: CRAWL SPACE TOTAL AREA: 1,618.4 SQ FT VENT $\frac{1}{150}$ VENT AREA SQ FT 8X16 FOUNDATION VENT .89 SQFT 13 VENTS EVENLY SPREAD AROUND THE PERIMET	TER OF CRAWL SPACE AREA.			
ENERGY NOTES:				
1. ALL EXTERIOR NEW WALLS SHALL HAVE R21 2. NEW ROOF @TRUSS SHALL HAVE R49 INSULA 3. ALL NEW WINDOW SHOULD HAVE U FACTOR (	ATION			

3. ALL NEW WINDOW SHOULD HAVE U FACTOR 0.30 OR BETTER. 4. NEW SLAB ON GRADE FOR ADDITION SHALL HAVE R10 RIGID INSULTATION.



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# Mercer New House

2423 63rd Ave S Mercer Island, WA 98040

project no: 53-19



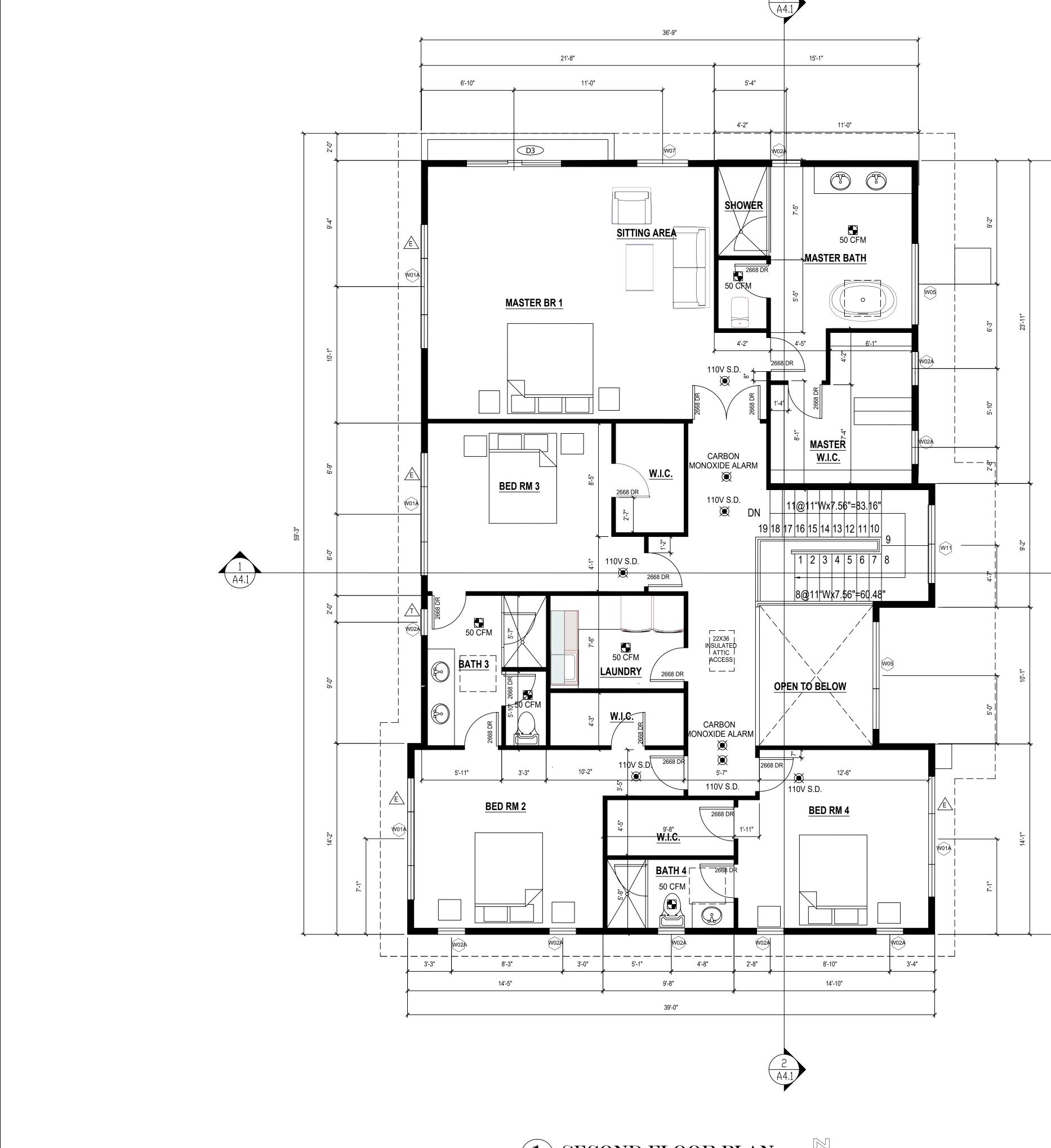
Issue/Revision:	
5-14-2020 City Permit Com	ments Revision
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	-	PLAN
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cale	1/4"	=	1'-	0

**A2.**1

Sheet Number







57'-3'

\A4.1

#### PLAN NOTES:

- 1. USE CONVENTIONAL FRAMING AND SHEATHING U.N.O.
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- 6. ALL EXHAUST FANS ARE TO VENTED TO OUTSIDE.
- 7. DOOR HT. AT THIS FLOOR IS 6'-8", TYP.
- 8. ALL SMOKE DETECTORS MUST BE PROVIDED w/ PRIMARY POWER FROM BUILDING WIRING, PROVIDED w/ BATTERY BACKUP, AND BE INTERCONNECTED.
- ESCAPE (EGRESS) WINDOW MUST HAVE A CLEAR OPENABLE AREA OF 5.7 S.F. w/ A MINIMUM NET CLEAR HEIGHT OF 24" AND WIDTH DIMENSION OF 20". THE SILL HEIGHT MUST NOT BE MORE THAN 44" ABOVE THE FLOOR.
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- 12. <u>EMERGENCY ESCAPE AND RESCUE OPENINGS</u> SHALL BE INSTALLED IN EVERY SLEEPING ROOM BELOW THE 4TH STORY AND IN BASEMENTS.
  \* OPENABLE W/O KEYS OR SPECIAL TOOLS
  \* MIN. 5.7 SF NET CLR OPENABLE AREA
  \* MIN. 24" NET CLR OPENABLE HEIGHT
- \* MIN. 20" NET CLR OPENABLE WIDTH
- \* MAX. 44" FINISHED SILL HEIGHT
- IRC SECTION R310 & IBC SECTION 1029.
- 13. WHOLE HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH IRC SECTION M1507.3.1 THROUGH M1507.3.7

EACH DWELLING UNIT OR GUEST ROOM SHALL BE EQUIPPED W/ A VENTILATION SYSTEM COMPLYING W/ SECTION M1507.3.4, M1507.3.5,M1507.3.6 OR M1507.3.7. COMPLIANCE IS ALSO PERMITTED TO BE DEMOSTRATED THROUGH COMPLIANCE W/ THE INTERNATIONAL MECHANICAL CODE 403.8 (M1507.3)

- 14. <u>STAIR LIGHTING</u> ALL STAIRWAYS SHALL BE PROVIDED WITH LIGHT SOURCES. LIGHT ACTIVATION CONTROLS SHALL BE ACCESSIBLE AT THE TOP AND BOTTOM OF INTERIOR STAIRWAYS AND WITHIN DWELLING UNIT FOR EXTRIOR STAIRS IRC SECTIONS R303.7 & R303.8
- 15. Where required, guardrails must be designed and installed to resist a concentrated load of 200 pounds applied in any directions at any point on the handrail or top rail and transfer that load through the support to the structure in accordance with ASCE 7–10. The connection of the guardrail/handrail support post shall be capable of resisting all resulting loads.
- 16. ATTIC VENTILATION:
- SHALL NOT BE LESS THAN 1S.F. FOR EACH 150S.F. OF ATTIC AREA OR 1 S.F. FOR EACH 300 S.F. WHERE 40% TO 50% OF VENTS ARE WITHIN 3' OF THE RIDGE. IRC R807.1. SEE ROOF PLAN A3.0 FOR VENT CALC.
- 17. ACCESS OPENINGS: THROUGH THE CEILING SHALL BE A MINIMUM 22"X30" WITH A MINIMUM HEADROOM OF 30" IRC. R 807.1.

18. EXISTING VENTILATION OPENNINGS:

VERIFY THAT ANY EXISTING ATTIC SPACE VENT OPENINGS THAT ARE CONCEALED BY THE NEW WORK ARE ADDED TO THE NEW REQUIRED VENT OPENING AREA.

ENERGY NOTES:

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### LEGEND

NEW WALL



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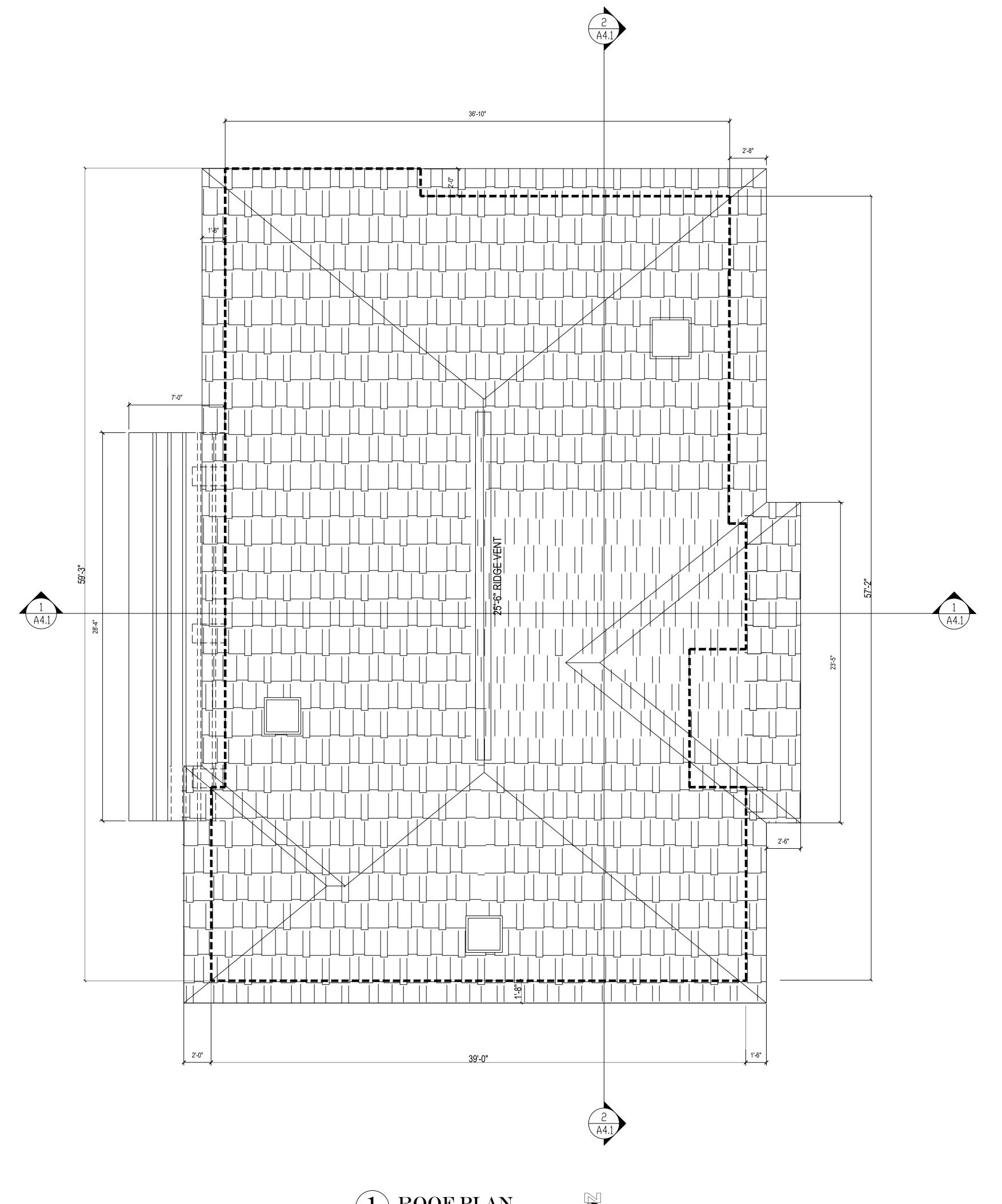
### Mercer New House

2423 63rd Ave SE Mercer Island, WA 98040

project no: 53-19
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 $\frac{\text{ROOF PLAN}}{\text{SCALE: } 1/4" = 1'-0"}$ 

#### ROOF PLAN NOTES:

A 22X30 INCH ACCESS OPENING SHALL BE LOCATED IN A HALLWAY. CORRIDOR OR OTHER READILY ACCESSIBLE LOCATION. ATTICS WITH A MAXIMUM VERTICAL HEIGHT OF LESS THAN 30 INCHES OR AREA LESS THAN 30 SQFT IN AREA NEED NOT BE PROVIDED WITH ACCESS OPENING. A 30-INCH MINIMUM CLEAR HEADROOM IN THE OPENING. PROVIDE A RIM TO HOLD INSULATION OUT OF ACCESS DOORWAY, INSULATE ACCESS HATCH WITH R-49 RIGID FOAM BUILD UP, GASKET ATTIC ACCESS DOOR AT CEILING.

CONTINUOUS RIDGE VENT TYPICAL ON ALL RIDGES, DO NOT INSTALL ON HIP OR RIDGES SHORTER THAN 36".

GUTTERS: CONTINUOUS ALUMINUM GUTTERS, SLOPE TO DOWNSPOUTS PER BEST INDUSTRY PRACTICE. 5"K STYLE WITH 2X3 ALUMINUM DOWNSPOUTS. COLOR SELECTION BY OWNER.

RIDGE VENT: UNDER RIDGE SHINGLE OR METAL RIDGE TYPE: 1" TALL, MADE OF HEAT RESISTANT POLPROPYLENE OR EQUIVALENT; WITH 20 SQ INCH VENTILATION (NFVA) PER LINEAL FOOT.

EAVE VENT: (3) 2" DIAMETER HOLES IN SOLID BLOCKING, SCREEN WITH <sup>1</sup>/<sub>8</sub>" METAL SCREEN.

#### ROOF NOTES:

PROTECT ROOF SHEATHING AS SOON AS POSSIBLE BY INSTALLING ROOFING MANUFACTURE RECOMMENDED BASE SHEET WITHIN A MAXIMUM 1 WEEK PERIOD AFTER INSTALLATION OF THE SHEATHING. CALL FOR INTERMEDIATE NALNG INSPECTION IF REQUIRED TO ACCOMPLISH THIS REQUIREMENT.

USE DRIP FLASHING IN COMBINATION WITH 90# ROLL STARTER COURSE AT EAVE.

INSTALL ALL ROOFING, FLASHING, AND CAPS PER MANUFACTURERS SPECIFICATIONS AND BEST INDUSTRY PRACTICES.

ALL VALLEYS TO RECEIVE METAL VALLEY FLASHING, MIN 24 GA.

#### ATTIC VENTILATION:

THE ATTIC VENTILATION REQUIRED IS ONE SQUARE FOOT FOR EACH 300 SQFT OF ATTIC AREA, 50% TO 80% OF VENTILATION MUST BE 36' OR MORE ABOVE THE EAVE.

ATTIC AREA	2146 SQFT
VENTILATION REQ	7.15 SQFT
0	3.78 SQFT 3.38 SQFT 7.16 SQFT



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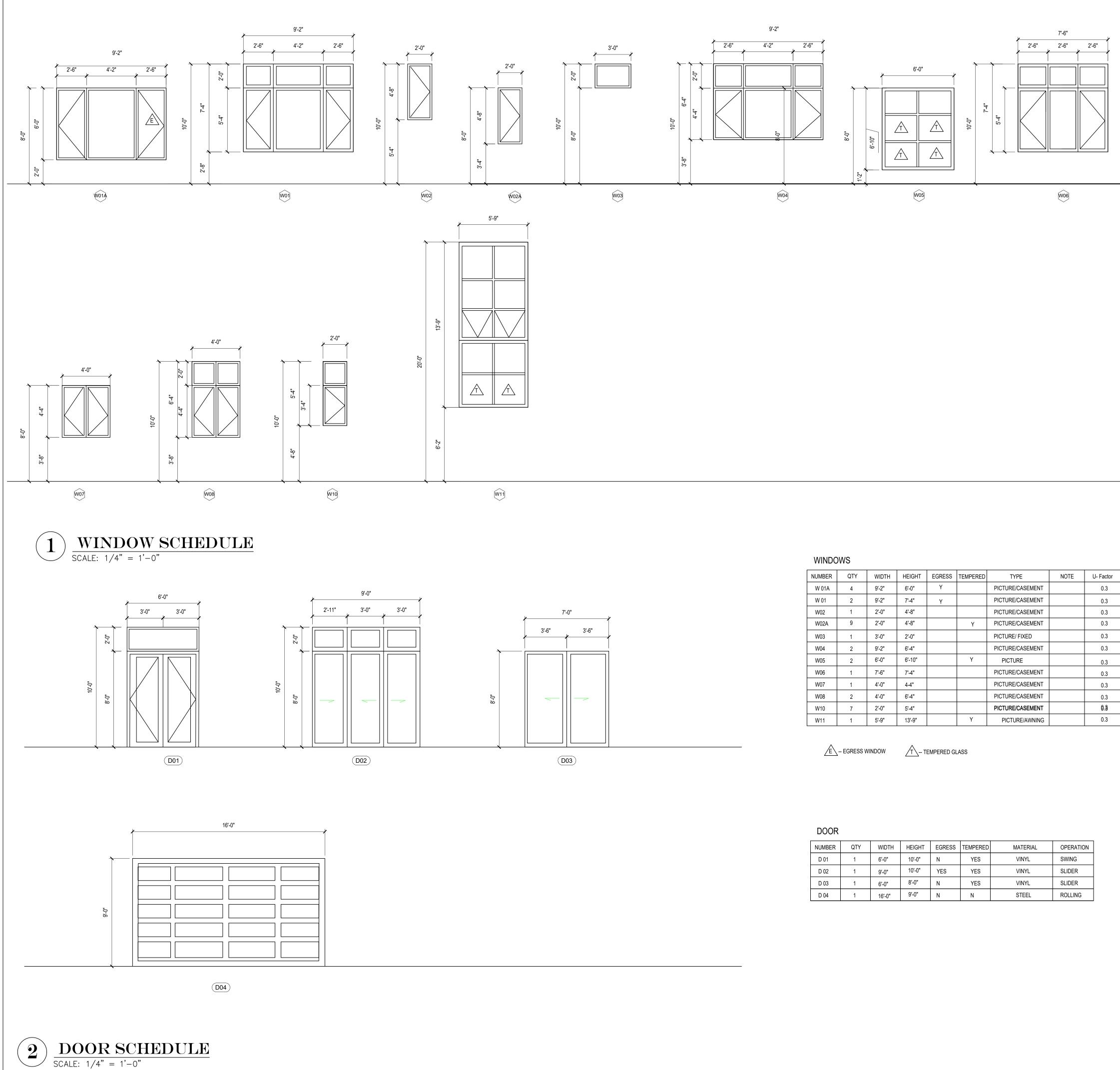
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Drawn By Checked By TG/UW TG Sheet Title ROOF PLAN	Date 8/2017
<sup>Scale</sup> 1/4" = 1'-0 Sheet Number <b>A2</b>	

LEGEND

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EXTERIOR WALL LINE BELOW

**ROOF LINE** 



. 7'-	0"	ما
3'-6"	3'-6"	

NUMBER	QTY	WIDTH	HEIGHT	EGRESS	TEMPERED	TYPE	NOTE	U- Factor
W 01A	4	9'-2"	6'-0"	Y		PICTURE/CASEMENT		0.3
W 01	2	9'-2"	7'-4"	Y		PICTURE/CASEMENT		0.3
W02	1	2'-0"	4'-8"			PICTURE/CASEMENT		0.3
W02A	9	2'-0"	4'-8"		Y	PICTURE/CASEMENT		0.3
W03	1	3'-0"	2'-0"			PICTURE/ FIXED		0.3
W04	2	9'-2"	6'-4"			PICTURE/CASEMENT		0.3
W05	2	6'-0"	6'-10"		Y	PICTURE		0.3
W06	1	7'-6"	7'-4"			PICTURE/CASEMENT		0.3
W07	1	4'-0"	4-4"			PICTURE/CASEMENT		0.3
W08	2	4'-0"	6'-4"			PICTURE/CASEMENT		0.3
W10	7	2'-0"	5'-4"			PICTURE/CASEMENT		<b>0</b> :3
W11	1	5'-9"	13'-9"		Y	PICTURE/AWNING		0.3

DOOR							
NUMBER	QTY	WIDTH	HEIGHT	EGRESS	TEMPERED	MATERIAL	OPERATION
D 01	1	6'-0"	10'-0"	N	YES	VINYL	SWING
D 02	1	9'-0"	10'-0"	YES	YES	VINYL	SLIDER
D 03	1	6'-0"	8'-0"	N	YES	VINYL	SLIDER
D 04	1	16'-0"	9'-0"	N	N	STEEL	ROLLING



Atlas Associates International 5280 Highland Dr. Bellevue, washington 98006 206.488.3688 v **gengtan®gmail.com** www.Atlascreate.com

# Mercer New House

2423 63rd Ave SE Mercer Island, WA 98040

project no: 53-19



\* Window will meet one of the below requirements:

1. Windows whose openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.

2. Openings that are provided with window fall prevention devices that comply with ASTM F 2090. 3. Windows that are provided with window opening control devices that

comply with Section R312.2.2.

### WINDOW & DOOR NOTES

WINDOWS WHERE SILL IS MORE THAN 6' ABOVE GRADE SHALL HAVE A MINIMUM FINISHED SILL HEIGHT OF 24" ABOVE FINISHED FLOOR.

ALL GLAZING IN DOORS OR GLAZING WITHIN 24" MEASURED HORIZONTALLY FROM EDGE OF AN OPENING DOOR TO BE TEMPERED GLASS. FIXED PANELS IN SLIDING GLASS DOORS OR SIDELIGHTS SHALL BE TEMPERED GLASS, BUT ADJOINING GLAZING FURTHER THAN 24" FROM THE OPENING DOOR SHALL NOT BE REQUIRED TO BE SAFETY GLAZING.

ALL GLAZING WITHIN 18" OF FLOOR OR WALKING SURFACE SHALL BE TEMPERED.

WINDOWS AND DOORS ARE CALLED OUT AS TO THE NOMINAL SIZE OF EACH UNIT. THE CONTRACTOR SHALL VERIFY ROUGH-IN DIMENSIONS WITH THE WINDOW AND DOOR MANUFACTURER PRIOR TO FRAMING OPENINGS.

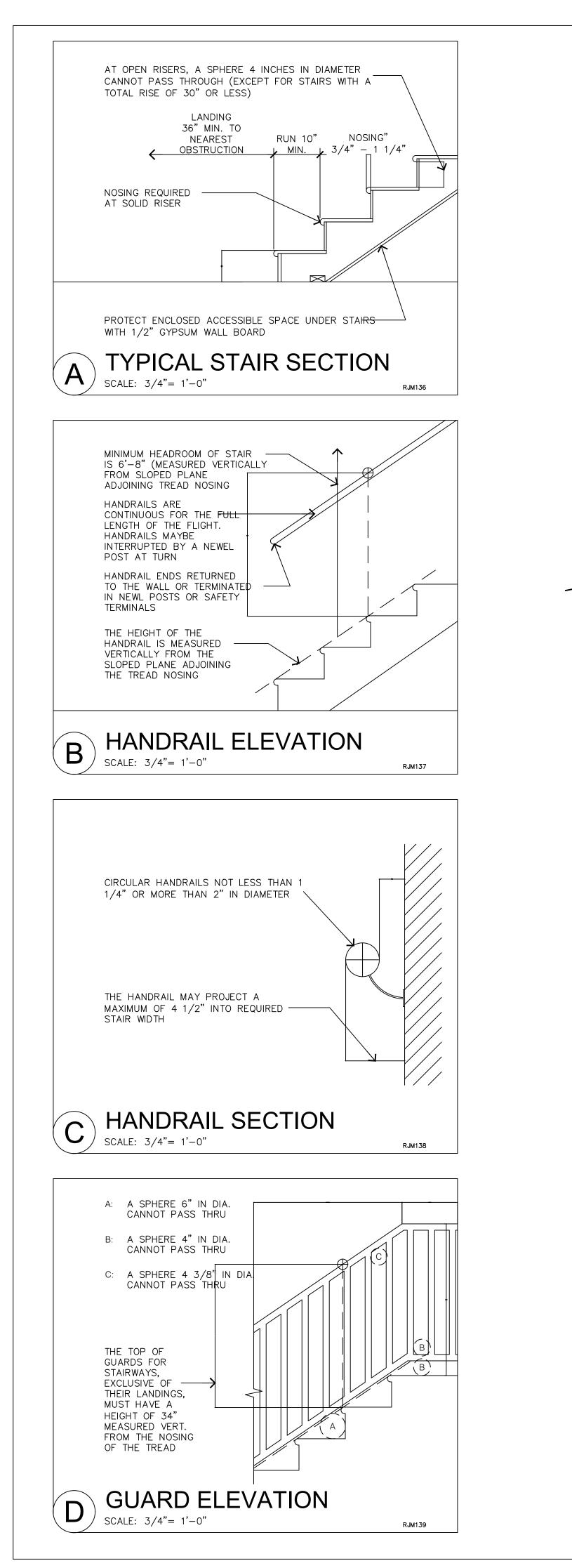
ALL WINDOWS AND EXTERIOR DOORS SHALL BE INSTALLED USING BEST PRACTICES AND AS SPECIFIED BY THE MANUFACTURER, INCLUDING WRAPPING ALL FRAMED OPENINGS WITH FLEXIBLE FLASHING, AND SETTING ALL WINDOW FLANGES ON A 🖁 BEAD OF CAULKING. AT TOP OF WINDOWS & EXTERIOR DOORS, INSTALL MIN 24 GA GALVANIZED FLASHING BETWEEN SIDING AND ANY WINDOW CASING. CAULK ALL PRIMED CASINGS AND TRIM TO WINDOW OR DOOR AND TO PRIMED SIDING, PRIOR TO FINISH PAINTING.

AVOID JOINTS IN FLASHING. IF A JOINT IS REQUIRED, LAY A 4" LONG PEACE OF THE FLASHING UNDER THE JOINT, AND INSTALL FLASHING OVER THIS BACKING PIECE WITH A BUTT JOINT LAID IN CAULKING.

ALL EXTERIOR TRIM SHALL BE HARDIE-TRIM OR CEDAR- DO NOT USE "WHITE WOOD"

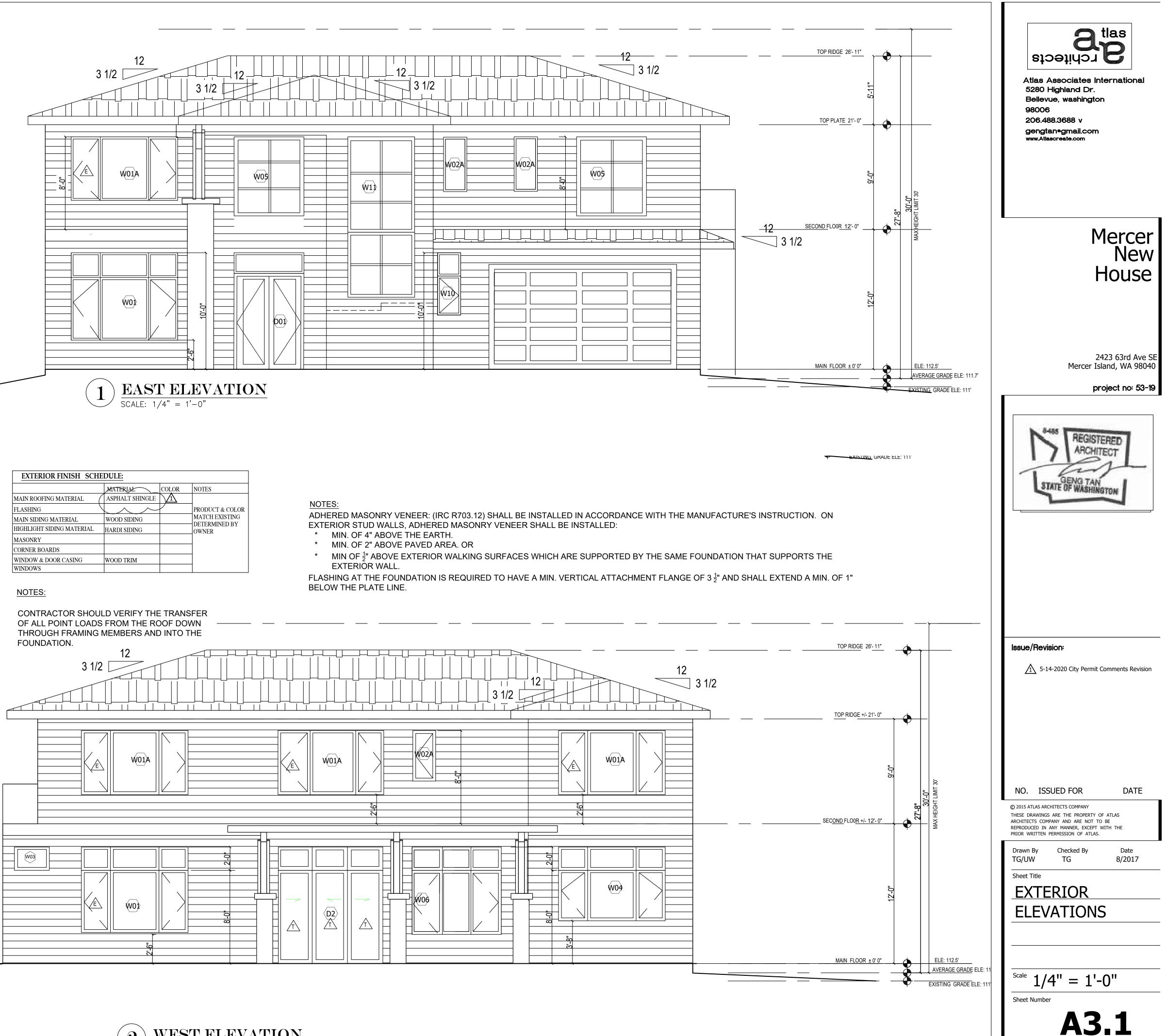
USE OIL BASE PRIMER OR OIL BASED STAIN ON ALL WOOD EXPOSED TO EXTERIOR OF BUILDING PRIOR TO INSTALLATION. PRIME OR STAIN (4) SIDES AND END CUTS.

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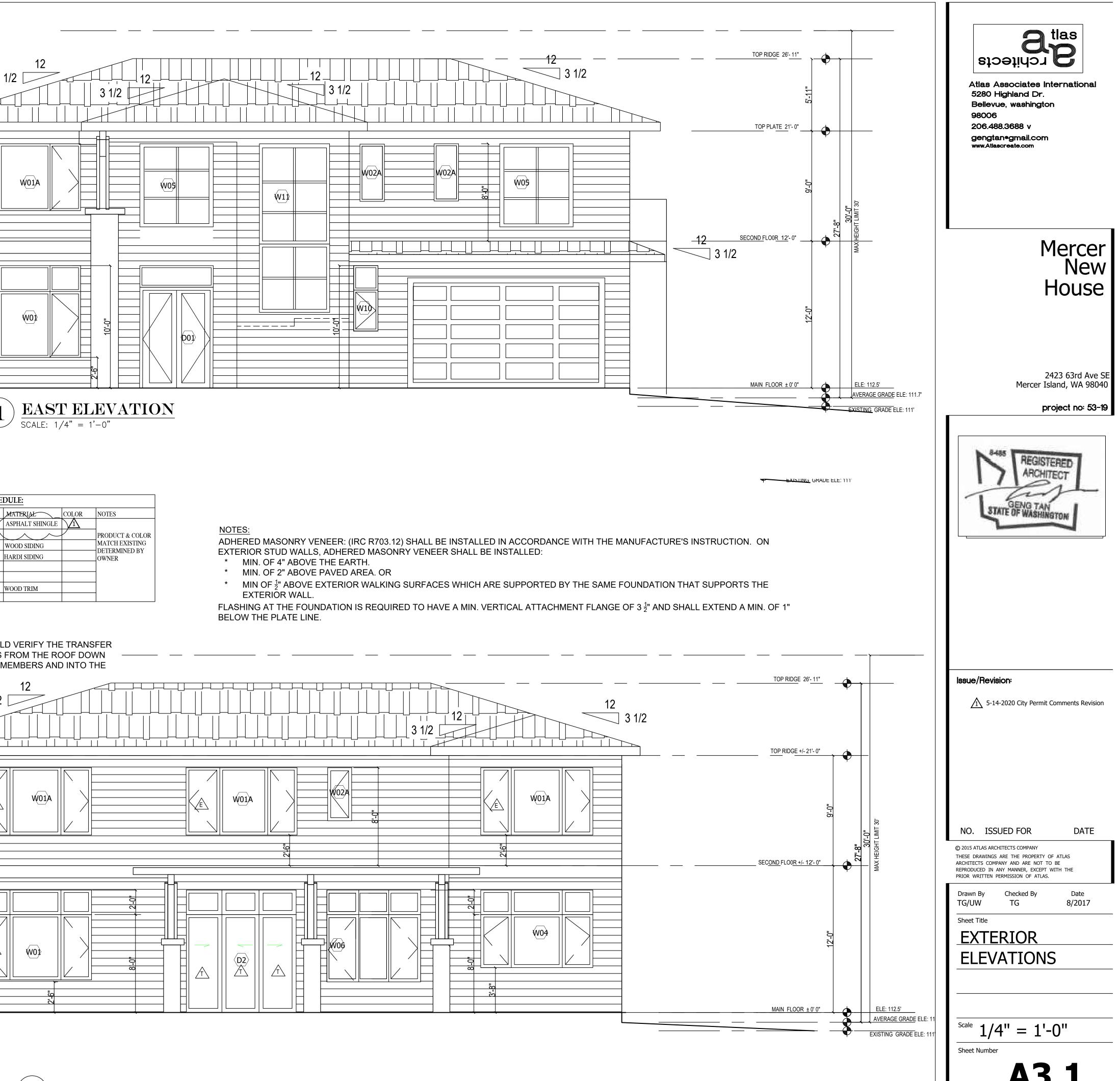


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MAIN ROOFING M	IATERIAL
FLASHING	
MAIN SIDING MA	TERIAL
HIGHLIGHT SIDIN	IG MATERIAL
MASONRY	
CORNER BOARDS	5
WINDOW & DOOF	R CASING
WINDOWS	



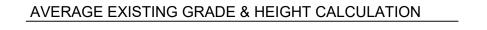




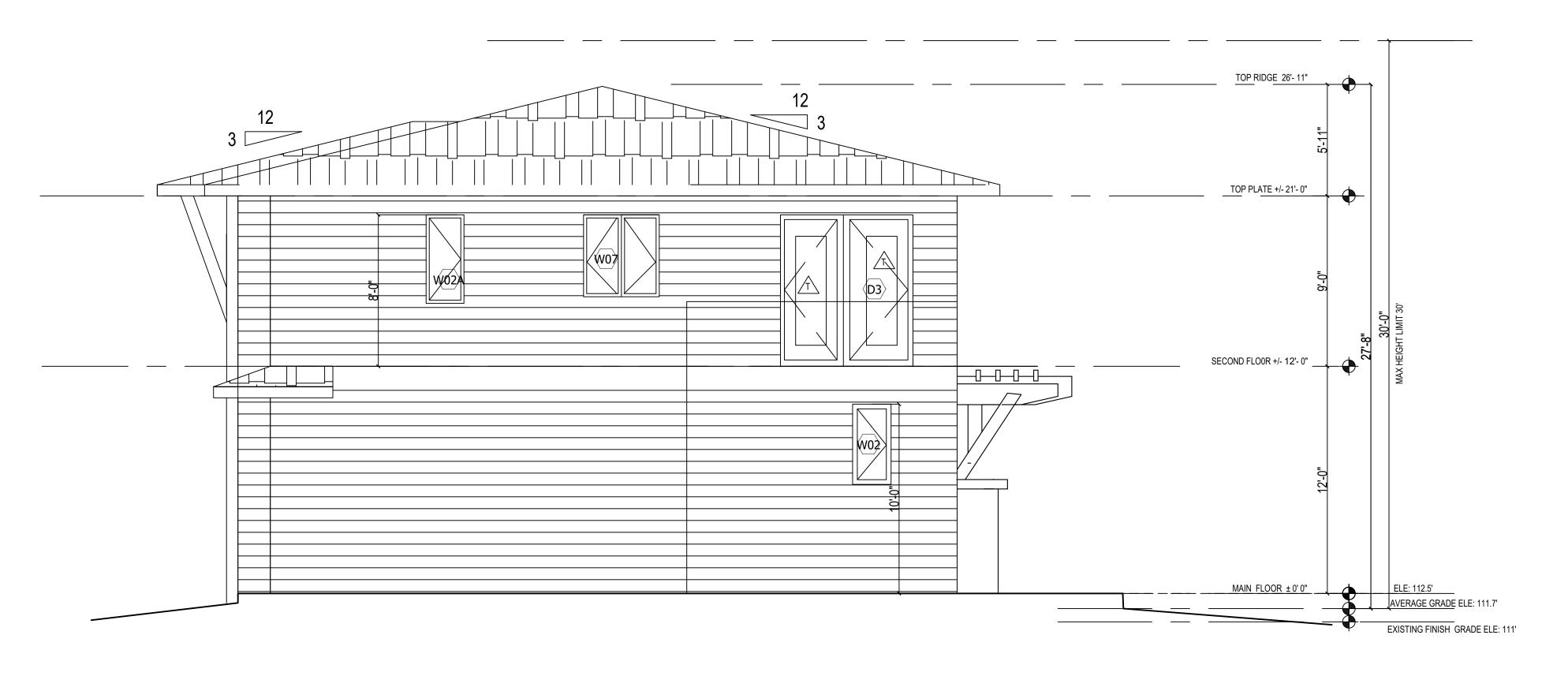
EXTERIOR FINISH SCH	EDULE:		
	MATERIAL	COLOR	NOTES
MAIN ROOFING MATERIAL	ASPHALT SHINGLE		
FLASHING	$\searrow$		PRODUCT & COLOR
MAIN SIDING MATERIAL	WOOD SIDING		MATCH EXISTING DETERMINED BY
HIGHLIGHT SIDING MATERIAL	HARDI SIDING		OWNER
MASONRY			
CORNER BOARDS			
WINDOW & DOOR CASING	WOOD TRIM		]
WINDOWS			]

#### NOTES:

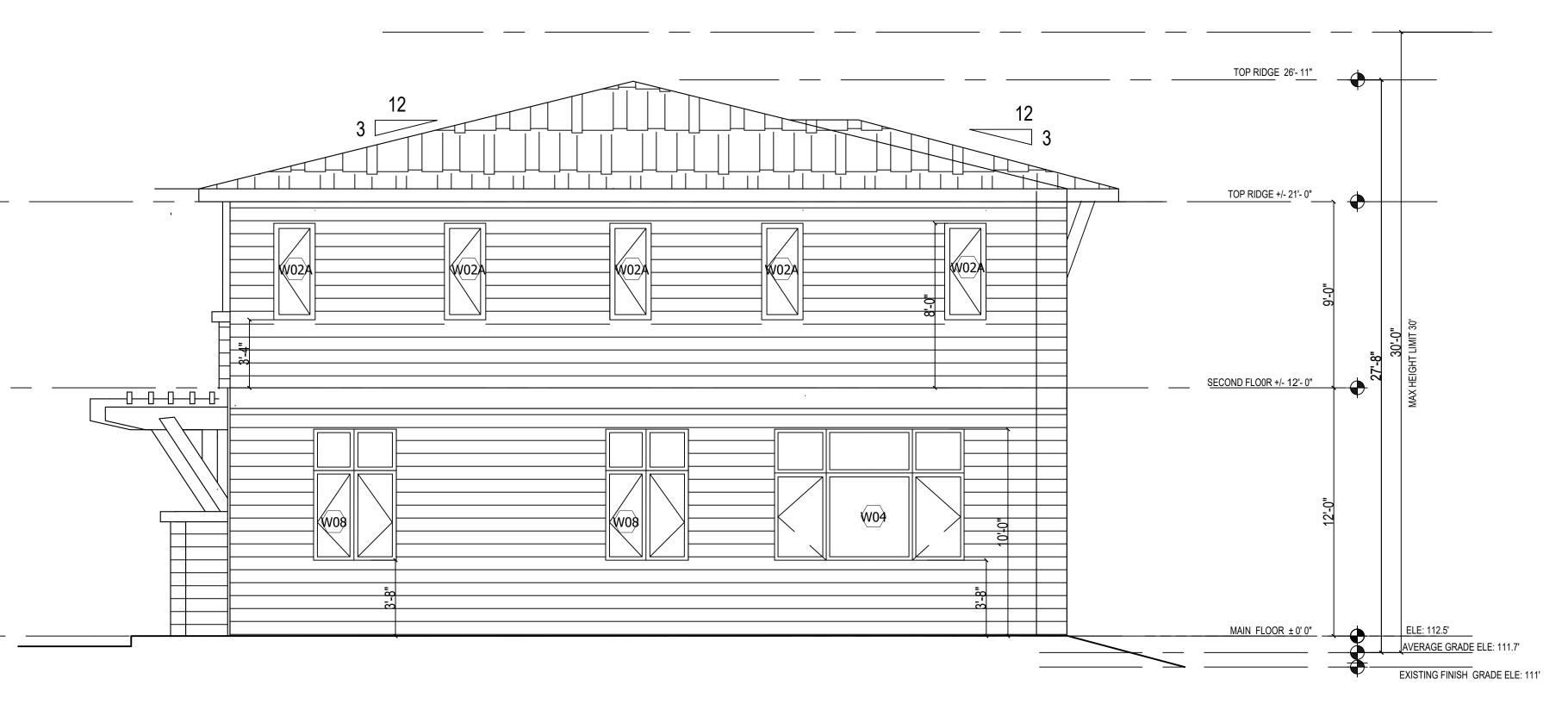
CONTRACTOR SHOULD VERIFY THE TRANSFER OF ALL POINT LOADS FROM THE ROOF DOWN THROUGH FRAMING MEMBERS AND INTO THE FOUNDATION.

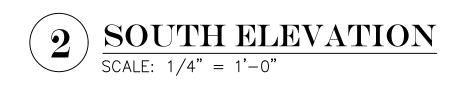


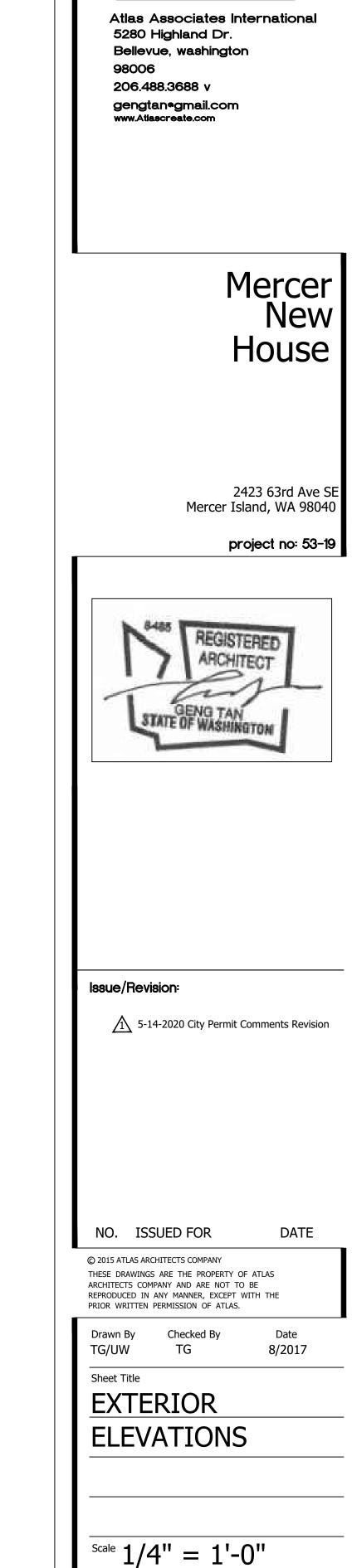
MIDPOINT WALL SEGMENT AVERAGE BUILDING ELEVATION: ELEVATION LENGTH =(A\*a+B\*b+C\*c+D\*d+E\*e+F\*f+G\*g+H\*h+I\*i+J\*j+K\*k+L\*I+M\*m+N\*n) a+b+c+d+e+f+g+h+i+j+k+I+m+n A=111.3' a=22'11" =(111.3\*22.917+111.1\*1.75+111\*9.17+110.9\*3.5+110.8\*10.083+110.7\*3.5+110.6\*14.083+110.3\*39 b=1'9" B=111.1' +110.5\*14.083+110.6\*1+111.3\*45.167+111.7\*14.25+111.6\*3+111.5\*22) c=9'2" C=111' 202.503 d=3'6" D=110.9' =2550.66+194.425+1017.87+388.15+1117.2+387.45+1557.58+4301.7 +1556.17+110.6+5027+1591.725+334.8+2453 E=110.8' e=10'1" 202.503 f=3'6" F=110.7' g=14'1" G=110.6' =22588.33 =111.5 202.503 H=110.3' h=39' I=110.5' i=14'1" AVERAGE BUILDING ELEVATION: =111.5' j=1' J=110.6' k=45'2" K=111.3' l=14'3" L=111.7' M=111.6' m=3' n=22' N=111.5'







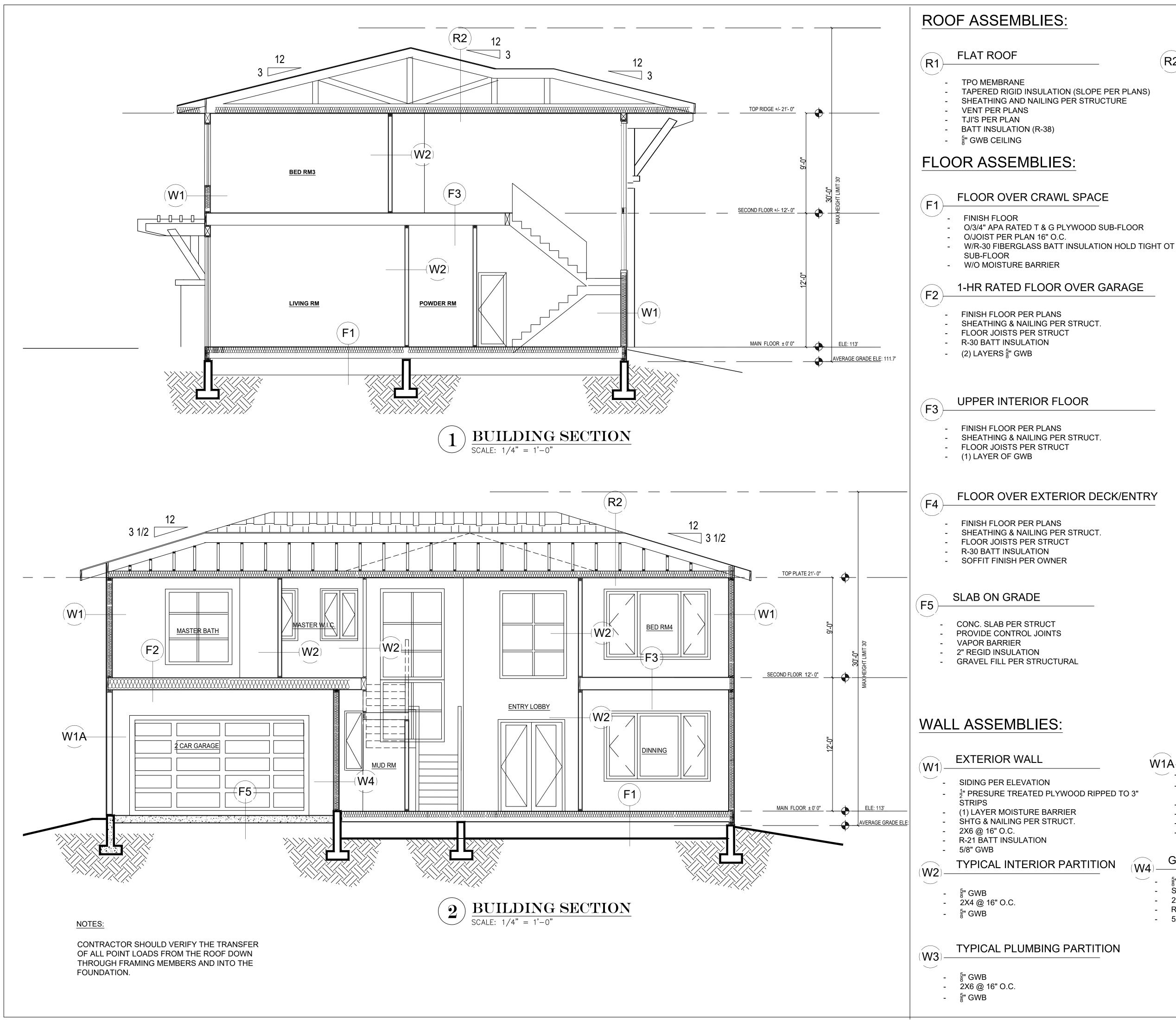




Sheet Number

A3.2







### Ŵ1À-

(W4)

EXTERIOR WALL@GARAGE

- SIDING PER ELEVATION
- <sup>1</sup>/<sub>2</sub>" PRESURE TREATED PLYWOOD RIPPED
- TO 3" STRIPS - (1) LAYER MOISTURE BARRIER
- SHTG & NAILING PER STRUCT.
- 2X6 @ 16" O.C. - 5/8" GWB

-

### GARAGE SEPERATION WALL

- <sup>5</sup>/<sub>8</sub>" TYP. "X" GWB SHEATHING WHERE REQED PER STRUCTURE - 2X6 @ 16" O.C.
- R-21 BATT INSULATION - 5/8" GWB

SLOPED ROOF

50-YE SHIN - O/30#

- 0/PL` NAIL CTURE - BATT INSULATION (R-49) W/VAPOR BARRIER
- ZXCEILING JOISTS OR TRUSSS BOTTOM CHORDS
- <sup>5</sup>/<sub>8</sub>" GWB CEILING

- @24" O.C. (U.N.O)

- 206.488.3688 v gengtan•gmail.com www.Atlascreate.com

98006

# Mercer New House

atlas

stoetidon 🦳

5280 Highland Dr.

Bellevue, washington

Atlas Associates International

2423 63rd Ave SE Mercer Island, WA 98040

project no: 53-19

REGISTERE ARCHITEC -GENG TAN STATE OF WASHING

Issue/Revision:

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DATE

Date

8/2017

Drawn By Checked By TG/UW ΤG Sheet Title

**BUILDINGS** 

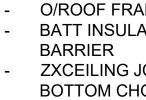
SECTIONS

 $^{\text{Scale}}$  1/4" = 1'-0"

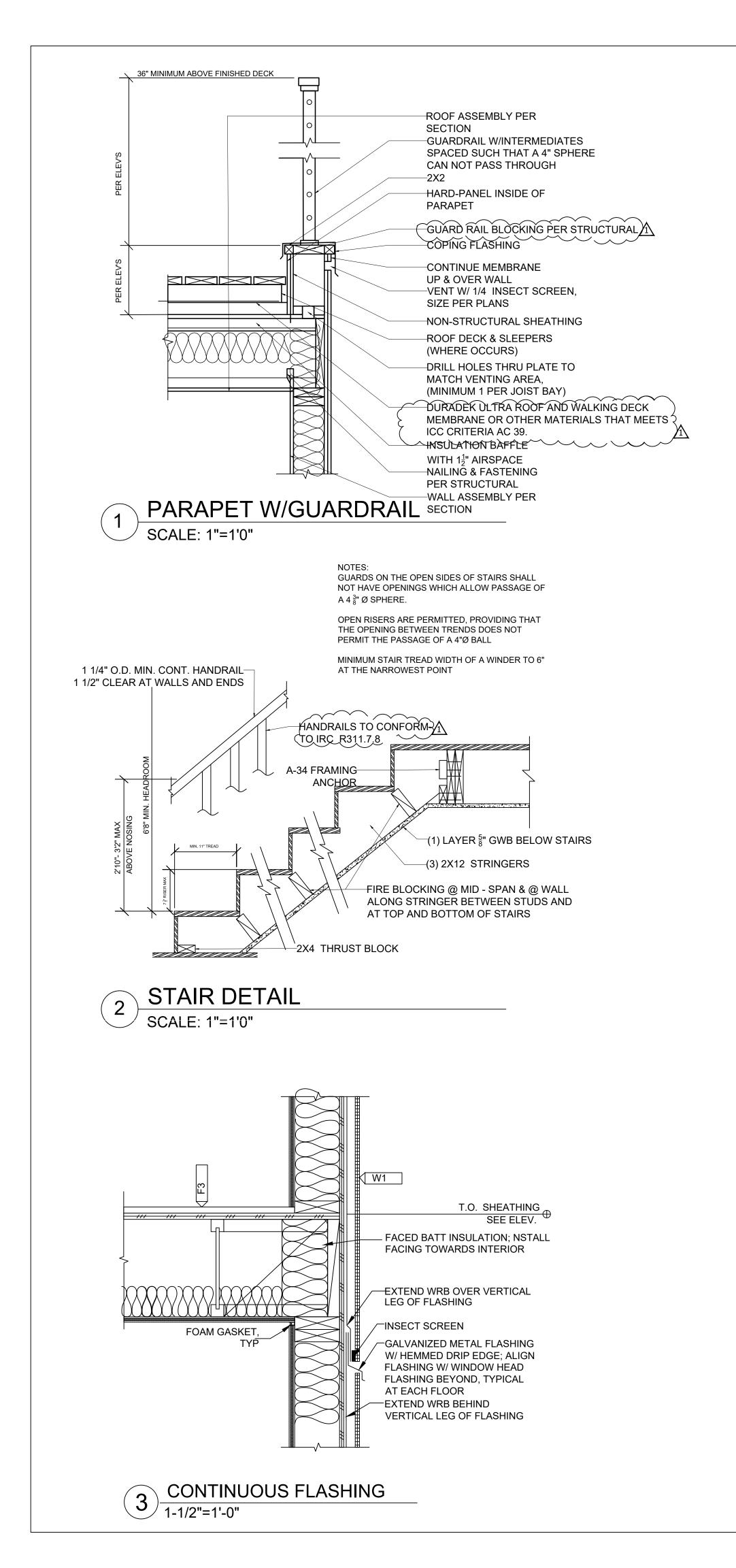
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A4.1

EAR METAL/OR ASPHALT IGLE ROOFING
# FELT
YWOOD SHEATHING AND
ING PER STRUCTURE
OF FRAMING PER STRUC



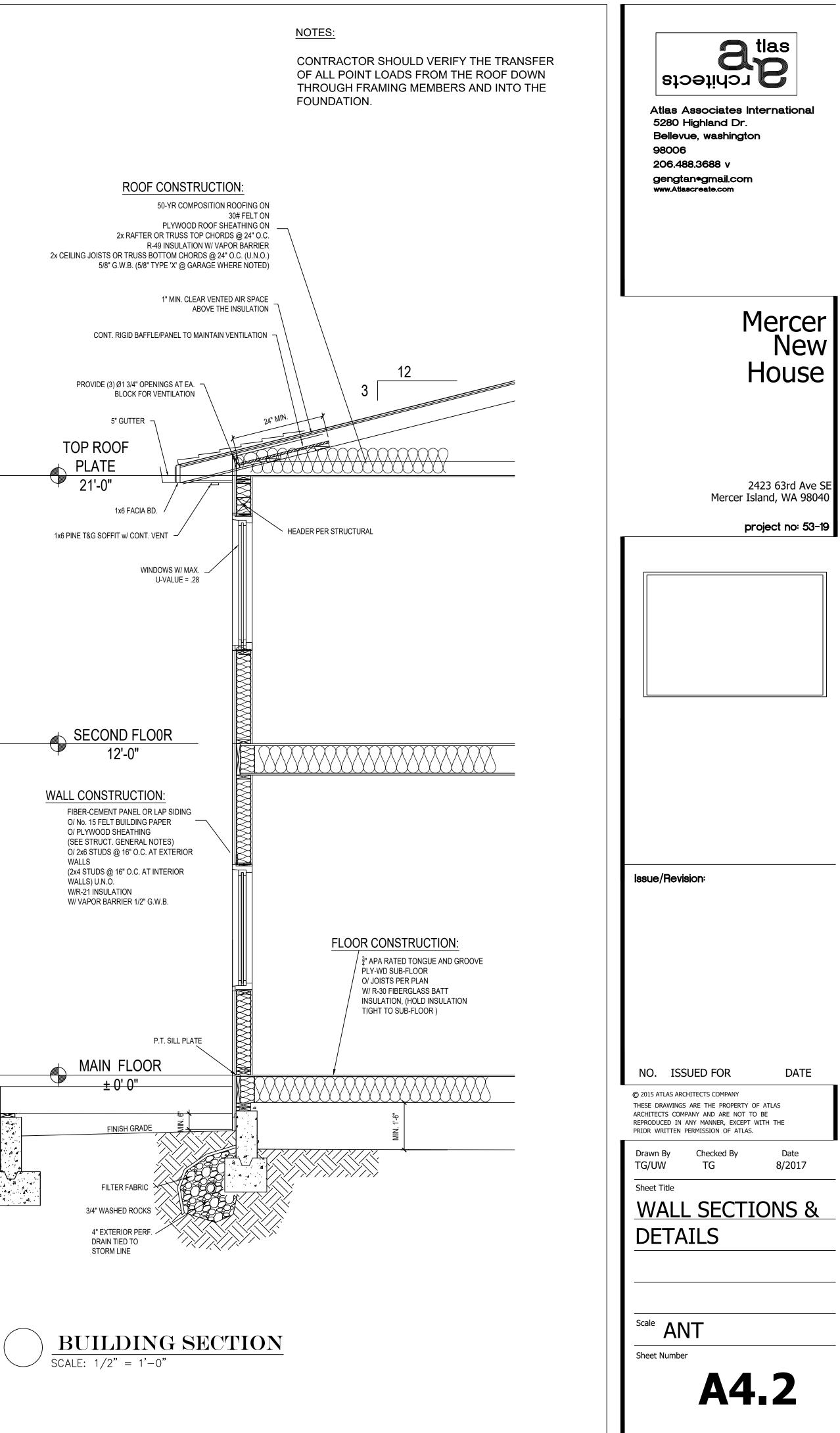
(R2)



TOP ROOF PLATE 21'-0"

12'-0"

MAIN FLOOR <u>± 0' 0"</u> FINISH GRADE FILTER FABRIC 3/4" WASHED ROCKS 4" EXTERIOR PERF. DRAIN TIED TO STORM LINE



# VENTILATION REQUIREMENTS

#### WHOLE HOUSE VENTILATION:

THE WHOLE HOUSE VENTILATION SYSTEM SHALL BE BIDDER DESIGNED TO PULL FRESH AIR FROM THE EXTERIOR INTO THE FURNACE RETURN AIR PLENUM, TO THEN BE DISTRIBUTED TO ALL HABITABLE ROOMS. A BALANCED QUANTITY OF AIR SHALL BE SIMULTANEOUSLY EVACUATED FROM THE INTERIOR TO EXTERIOR OF THE BUILDINGS.

SYSTEM CRITERIA: ALLOW FOR A MINIMUM OF .35 AND MAXIMUM OF .50 AIR CHANGES PER HOUR FOR ALL HABITABLE ROOMS. UTILIZE A HIGH EFFICIENCY FAN MAX 35W/CFM.

SYSTEM COMPONENTS TO INCLUDE EXTERIOR INTAKE GRILL, SMOOTH WALL AIR TIGHT INTAKE DUCTING, EXHAUST PORT WITH BACK-DRAFT DAMPER, RODENT PROOF ALL EXTERIOR HOOD.

WHOLE HOUSE EXHAUST DUCT SHALL: -BE SIZED ACCORDING TO TABLE 3-2 OF THE UNIFORM MECHANICAL CODE. -BE INSULATED TO A MIN. R-8 -TERMINATE OUTSIDE THE BUILDING.

-BE FLOW RATE @0.25" W.G. STATIC PRESSURE. -BE SOUND RATE @1.5 SONES MAX.

WHOLE HOUSE EXHAUST FAN CONTROLS SHALL: -BE CONNECTED TO THE FURNACE BLOWER FOR SYNCHRONIZED FUNCTION. -BE CONTROLLED BY A 24-HOUR CLOCK TIMER FOR INTERMITTENT USE. -PROCIDE CAPABILITY OF CONTINUOUS OPERATION, WITH MANUAL & AUTOMATIC CONTROL -THE 24-HOUR CLOCK SHALL BE READILY ACCESSIBLE. -AT THE TIME OF FINAL INSPECTION, THE AUTOMATIC CONTROL TIMER SHALL BE SET TO OPERATE THE WHOLE HOUSE FAN FOR AT LEAST 8 HOURS A DAY.

INTERIOR DOORS TO BE UNDERCUT A MIN. OF  $\frac{1}{2}$ " ABOVE FINISHED FLOOR COVERINGS FOR FRESH AIR DISTRIBUTION.

#### SOURCE SPECIFIC VENTILATION:

SOURCE SPECIFIC EXHAUST VENTILATION IS REQUIRED IN EACH KITCHEN, BATHROOM, WATER CLOSET, LAUNDRY ROOM, SWIMMING POOL, SPA AND OTHER ROOMS WHERE EXCESS WATER VAPOR OR COOKING ORDER IS PRODUCED (SECTION 302.2.1 WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE). 

USE PANASONIC EXHAUST FANS FOR EACH BATHROOM, LAUNDRY & WET ROOM PER PLAN NOTES. ALL EXHAUST FAN TO HAVE TIMER SWITCHES. INSTALL PER MANUCATURER ^SPFCIFICATIONS.

INSTALL EXHAUST FANS FOR BATHROOMS, LAUNDREIS & OTHER WET ROOMS AS FOLLOWS: -VENT TO EXTERIOR WITH 4" DIAMETER SMOOTH WALL AND AIR TIGHT METAL DUCT -INSULATE DUCT WITH R-8 IN UNCONDITIONED SPACES. -TERMINATE IN HOOD WITH BACK DRAFT DAMPER.

-SEAL ALL DUCT PER IRC M1601.1.

RANGE HOODS & DOWN DRAFT RANGES SHALL BE TATED NOT LESS THAN 200 CFM@0.10"W.G; AND NOT MORE THAN 400 CFM. INSTALL PER MANUFACTURER SPECIFICATIONS.

RANGE HOOD DUCTS: RANGE HOOD SHALL DISCHARGE TO THE OUTDOORS THROUGH A SINGLE-WALL DUCT PER THE MANUFACTUREER'S SPECIFICATIONS. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AIRTIGHT AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. DUCTS SERVING RANGE HOOD SHALL NOT TERMINATE IN AN ATTIC OR CRAWL SPACE OR AREA INSIDE THE BUILDING(SECTION M1502.1) INSULATE IN UN-CONDITIONED SPACES TO R-8.

#### DRYER VENT:

DRYER DUCTS: DRYER EXHAUST SYSTEMS SHALL BE INDEPENDENT OF ALL OTHER SYSTEMS. SHALL CONVEY THE MOISTURE TO THE OUTDOORS AND SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING.

EXHAUST DUCT TERMINATIONS SHALL BE IN ACCORDANCE WITH THE DRYER MANUFACTUREER'S INSTALLATION INSTRUCTIONS. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION.

EXHAUST DUCT SHALL NOT BE CONNECTED WITH SHEET METAL SCREWS OR FASTENING MEANS WHICH EXTEND INTO THE DUCT.

EXHAUST DUCTS SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER.

THE MAXIMUM LENGTH OF A LOCTHES DRYER EXHUAST DUCT SHALL NOT EXCEED 25' FROM THE DRYER LOCATION TO THE WALL OT ROOF TERMINATION.

THE MAXIMUM LENGTH OF THE DUCT SHALL BE REDUCED 2.5 FEET FOR EACH 45-DEGREE BEND AND FIVE FEET FOR EACH 90-DEGREE BEMD

THE MAXIMUM LENGTH OF THE EXHAUST DUCT DOES NOT INCLUDE THE TRANSITION DUCT PER DECTION M1501.3.



THE HVAC SYSTEM TO IS BE BIDDER DESIGNED.

AND MFG SPECIFICATIONS.

OFFICIAL.

DISTRIBUTION AND RETURN.



PER WSEC C404.2

MIN 24 GA GALV SHEET METAL.

# (2) HVAC SYSTEM REQUIREMENTS

- UTILIZE A 95% EFFICIENT GAS FORCED AIR FURNACE, SIZE FURNACE PER WSEC M-1401.3 AND DESIGN AND SIZE DUCTWORK PER THE 2016IMC.
- DESIGN FOR INTEGRATED WHOLE HOUSE VENTILATION PER WASHINGTON STATE VENTILATION CODE AND 1/A5.1. UTILIZE A HIGH EFFICIENCY FAN MAX 35W/CFM.
- UTILIZE AN AIR SOURCE HEAT PUMP INTEGRATED WITH HVAC SYSTEM, WITH HSPF OF 9.0.
- LOCATE EQUIPMENT PER PLAN; PROVIDE OUTSIDE COMBUSTION AIR FOR ALL GAS APPLIANCES PER 2016 IMC
- PROVIDE AN ACCESSIBLE MEANS OF BALANCING THE AIR FLOWS IN THE HEATING SUSTEM.
- GAS FURNACES SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE FLOOR IN HAZARDOUS LOCATION AND PRIVATE GARAGE.
- INSTALL BOLLARDS PER CODE TO PROTECT EQUIPMENT AND DUCTWORK FROM COLLISION IN GARAGES.
- DON'T USE BUILDING CAVITIES TO SUBSTITUTE FOR DUCTWORK OR PLENUMS.
- SEAL ALL JOINTS IN DUCTWORK WITH APPROVED SEALANT (NOT DUCT TAPE) PER WSEC 503.10.3.
- AVOID INSTALLING DUCTWORK IN UN-CONDITIONED SPACE. IF UNAVOIDABLE, INSULATE ALL DUCTWORK IN CRAWL SPACES WITH MINIMUM R-30 INSULATION BETWEEN DUCTWORK AND CRAWL AREA OR GARAGE, SUPPORT AS NECESSARY WITH WIRE OR BY CONSTRUCTION OF A DRY WALLED SOFFIT.
- AVOID INSTALLATION OF SUPPLY OR RETURN DUCT IN EXTERIOR WALLS. IF UNAVOIDABLE, WALLS MUST BE FURRED SO THAT THE REQUIRED R VALUE OF HOUSE INSULATION IS NOT COMPROMISED.
- FURNACE AND OTHER HVAC EQUIPMENT SHALL BE LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS "UL". LABLES SHALL BE AFFIXED TO EQUIPMENT FOR INSPECTION BY THE BUILDING
- THERMOSTAT SHALL BE PROGRAMMABLE TYPE.
- PROVIDE AIR LEAKAGE TESTING OF DUCTWORK AND CERTIFIED WITH AFFIDAVIT PER 2015 WSEC, SEE BELOW FOR DUCTWORK LEAKAGE TESTING REQUIREMENTS.
- INTERIOR DOORS TO BE UNDERCUT A MIN. OF  $\frac{1}{2}$ " ABOVE FINISHED FLOOR COVERING FOR CONDITIONED AIR

### PLUMBING NOTES

- PLUMBING SUPPLY LINES TO BE PEX OR EQUIVALENT. USE JOINTS AND FITTINGS MADE BY SAME MANUFACTURER AS PIPE, MAKE CONNECTIONS PER MANUFACTURERS SPECIFICATIONS.
- PLUMBING DRAIN LINES AND VENTS TO BE SCHEDULE 40 ABS PLASTIC.
- PROVIDE WHOLE BUILDING SHUT OFF VALVE INSIDE BASEMENT IN AN EASILY ACCESSIBLE LOCATION WHICH WILL NOT BE COVERED BY CABINETS OR APPLIANCES.
- WRAP UPPER FLOOR DRAIN LINES IN A SOUND DEADENING COVERING IN BOTH CEILING AND WALLS OF THE FLOOR BELOW. WITH FOAM PIPE WRAP, FIBERGLASS BATT INSULATION IS NOT SUFFICIENT BY ITSELF.
- INSULATE ALL WATER SUPPLY LINES IN UN-CONDITIONED SPACES TO R-3
- PROVIDE AN EXPANSION RELIEF TANK PER UPC SECTION 608.3.
- INSTALL GAS FIRED HOT WATER TANK, 60 GALLON QUICK RECOVERY TYPE; WITH 80 % PERFORMANCE EFFICIENCY
- MAINTAIN CLEARANCE TO COMBUSTIBLES PER MANUFACTURER SPECIFICATIONS
- PROVIDE OUTSIDE COMBUSTION AIR TO WATER HEATER PER 2015 IMC -
- VENT TO EXTERIOR WITH MANUFACTURER SPECIFIED CHIMNEY, MAINTAIN CLEARANCE TO COMBUSTIBLES AS SPECIFIED BY MANUFACTURER, TERMINATE ON ROOF WITH MANUFACTURER SPECIFIED HOOD, FIRE BLOCK WITH
- PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE TO EXTERIOR OF BUILDING
- 18" MINIMUM REQUIRED BETWEEN BOTTOM EDGE OF SOURCE OF IGNITION AND THE FLOOR.
- -SEISMIC STRAPS ARE REQUIRED PER 2015 UPC\_507.2. SECURELY FASTEN WATER HEATER TO WALL-UTILIZE BLOCKING AS REQUIRED. DRYWALL ANCHORES SHALL NOT BE USED.
- -PROVIDE A VACCUM RELIEF VALVE IN THE COLD WATER LINE ABOVE THE HIGHEST LEVEL OF THE WATER HEATER.
- -INSULATE ALL HOT WATER PIPES TO R-3 IN BOTH HEATED AND UN-HEATED AREAS.
- ALL SHOWERHEAD AND KITCH SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVAORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. TO OULIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWING SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE MAXIMUM FLOW RATED FOR ALL SHOWERHEADS, KITCHEN SINK FAUCETS, AND OTHER LAVATORY FAUCETS.

# 4 ELECTRICAL REQUIREMENTS

### SERVICE PANEL

- UTILITY CONNECTION.
- JURISDICTION
- CODE FOR THEIR ANTICIPATED LOAD.

### WITING NOTES

- LOCATIONS TO AVOID UNNECESSARY CUTTING OF FRAMING MEMBERS.
- SHALL BE COVERED WITH METAL PLATES PER CODE.

### TYPICAL HEIGHTS

TYPICAL OUTLET TYPICAL SWITCH TYPICAL WALL MOUNTED LIGHT

### ENERGY EFFICIENTCY

BE HIGH-EFFICIENCY LAMPS.

### RECESSED CEILING FIXTURE

- EACH.
- MUDDING OR BY USE OF FOAM OR OTHER DENSE INSULATION.
- DO NOT USE RECESS LIGHT FIXTURE IN A CLOSET
- ALL EXHAUST FANS TO HAVE TIMER SWITCHING.

#### NIGHT LIGHTS

### LOW VOLTAGE WIRING & LIGHTING

- INSTALLATION INSTRUCTIONS AND AVOID HEAR BUILD UP.



- A) SEALED GLASS ENCLOSURE **B) OUTSIDE COMBUSTION AIR** C) DOUBLE WALL COMBINATION VENT AND AIR INTAKE.
- MANUFACTURE'S SPECIFICATIONS.
- WHEN TELEVISION SCREENS ARE INSTALLED ABOVE FIREPLACE:

INSTALL A 200AMP SERVICE PANEL, SQUARE D OR EQUIVALENT. PROVIDE FOR UNDERGROUND SERVICE FROM

ALL CIRCUITRY, LOAD PANEL, SERVICE, AND WIRING TO BE DESIGNED AND INSTALLED BY LICENSED AND BONDED ELECTRICAL CONTRACTOR OR COMPLY WITH ALL APPLICABLE CODES, AND TO BE INSPECTED AS REQUIRED BY THIS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SIZE ALL CIRCUS APPROPRIATED TO AND CONFORMING TO

LAYOUT FIXTURES IN KEEPING WITH THE REFLECTED CEILING PLAN OR PER THE PROPERTY OWNER, BUT ADJUST

DO NO DRILL WITHIN 2" OF THE BOTTOM OF ANY JOIST OR RAFTER. MAX HOLD SIZE 1" IN LOAD BEARING WALLS. CONSULT WITH STRUCTURE ENGINEER IF LARGER HOLES MUST BE DRILLED IN LOAD BEARING WALLS.

AT CORNERS AND OTHER AWKWARD FRAMING LOCATIONS ANY HOLE DRILL WITHIN 1" OF SHEATHING OR DRYWALL

FOR ANY WIRING IN CONCRETE FLOOR OR EXTERIOR CONCRETE SLABS-RUN WIRING IN APPROPRIATE CONDUIT BELOW THE BOTTOM OF THE SLAB. DO NOT POUR SLAB AROUND HORIZONTAL CONDUIT.

> CENTER BOX 16" OFF FLOOR CENTER BOX 48" OFF FLOOR CENTER BOX 66" OFF FLOOR OR AS CALLED OUT

PER WSEC R 404.1, A MINIMUM OF 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL

ALL RECESSED FIXTURE TO BE UL APPROVED IC PROTECTED "ZERO CLEARANCE" TYPES AND TO BE SEALED UNITS THAT DO NOT LEAK AIR. ALL RECESS FIXTURES TO UTILIZE LED OR COMPACT FLORESCENT BULBS, MAX 17W

RECESSED FIXTURES AND EXHAUST FANS IN UNHEATED ATTICS OR RAFTER BAYS TO RECEIVE SPECIAL CLEARANCE CONSIDERATION SO THAT THE FULL R- VALUE OF THE SPECIFIED INSULATION IS MAINTAINED, EITHER BY

RECESS LIGHT SHALL HAVE A WATER PROOF LENS IF USED IN A SHOWER OR OVER A BATH TUB. THE OWNER CAN EXPECT TO GET LESS LIGHT FROM THESE FIXTURES THAN FROM BARE BULB RECESSED LIGHTING.

FOR ALL NEW OR REMODELED BATHROOMS AND HALLWAYS LEADING FROM BEDROOMS TO A BATHROOM INSTALL NIGHT LIGHTS AT THE FLOOR LEVEL. WITH DIMMER SWITCHING OR SHADES TO KEEP THE LIGHT LOW.

BATHROOM AND HALLWAY NIGHT LIGHTS TO BE CONTROLLED BY MOTION SENSORS TIMED WITH A 10 MINUTE DELAY. INSTALL MOTION SENSORS AND NIGHT LIGHTS IN THE TOE KICK OF BATHROOMS CABINETS IF POSSIBLE. BUT LIGHT THE WAY TO TOILET. MOTION SENSORS TO BE PLACED SO PETS DO NOT TRIP THE SWITCHES.

ALL LOW VOLTAGE WIRING SHALL BE PERMITTED AND INSTALLED BY A LICENSED ELECTRICIAN.

HIDE ANY STAND ALONE TRANSFORMERS. BUT BE CERTAIN TO FOLLOW THE TRANSFORMER MANUFACTURERS

ALL NEW FIREPLACES SPECIFIED IN THESE PLANS TO BE ZERO CLEARANCE-DIRECT VENT GAS UNITS. ALL SUCH FIREPLACES WILL BE UL LISTED IN ACCORDANCE WITH UL127. ALL UNITS TO INCORPERATE THE FOLLOWING FEATURES:

FRAME FOR AND INSTALL FIREPLACES PER THE MANUFACTURE'S SPECIFICATIONS, INSTALL CHIMNEY/AIR INTAKE PER THE MANUFACTURE'S SPECIFICATIONS INCLUDING FIRE-STOPS IF VENTS ARE ROUTED THROUGH FLOORS OR CEILINGS. USE FACTORY VENT HOOD ONLY. DO NOT SHROUD HOOD AND MAINTAIN CLEARANCES FROM HOOD PER MANUCATURE'S SPEC.

HEARTHS, MANTLES, AND SURROUNDS TO BE CONSTRUCTED FOR EACH FIREPLACE IN ACCORDANCE WITH THE

A) THE BOTTOM OF THE TV SCREEN SHALL BE A MINIMUM OF 24" ABOVE THE TOP OF THE FIREBOX.

B) WIRING INCLUDING LOW VOLTAGE WIRING WILL BE SECURELY FASTENED INSIDE WALLS PER CODE-NO LOOPS OF WIRE ARE TO BE LEFT INSIDE THE WALL. USE "CLOCK" TYPE OUTLETS OR OTHER MEANS TO HIDE WIRES BEHIND TV.



Issue	<b>Revision</b> :

5-14-2020 City Permit Comments Revision

NO. ISSUED FOR

Drawn By

TG/UW

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Checked By

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Date 8/2017

DATE

### Sheet Title Mech/Ventilation/ Energy

Scale	ANT

A 6.1

Sheet Number

CRITERIA	
1.	ALL MATERIA
	DESIGN LOAI GROUND SNO FLAT ROOF S FLOOR LIVE WIND
	EARTHQUAK LATERAL SYS SIT
	SEE PLANS F
2.	STRUCTURAI BIDDING AND COMPATIBILI
3.	CONTRACTO TO COMMEN DRAWINGS A
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8.	DRAWINGS I ARE NOT SPE DETAILS OF ( AND THE ENG
9.	ALL STRUCT SHALL BE SU AND ERECTIO
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	CONNE MANUF
11.	CONTRACTO LOCATIONS ( CONSTRUCT APPROVED S
12.	SHOP DRAW RECORD, TH AND STAMP I DRAWINGS F OPERATIONS THERETO. S MARKED ANI SUBMITTAL I THE SUBMIT BUILDING OF
13.	SHOP DRAW PURPOSE OF ENGINEER T MATERIAL IS FABRICATION BETWEEN SH PRIOR TO OF DRAWINGS
FOUNDATI	ON NOTES:
14.	ALLOWABLE BE VERIFIED ARE FOUND FOUNDATION
15.	FOOTINGS S STRUCTURAI FOOTINGS SI
	IF SOIL SHOU ESTIMATED A OR COMPAC
	HORIZONTAL PROPERLY C BE CENTERE
16	

RIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, FIONS, AND THE 2015 INTERNATIONAL BUILDING CODE AS AMENDED BY LOCAL JURISDICTION.

AD CRITERIA . p<sub>f</sub>=20 PSF .(.....GC<sub>pi</sub>=0.18, 110 MPH, EXPOSURE "C"

KE ... ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE YSTEM: LIGHT FRAMED SHEAR WALLS, Vs =12.09 KIPS (ULTIMATE) TE CLASS=D, S<sub>s</sub>=1.376g, S<sub>DS</sub>=0.917g, S<sub>1</sub>=0.53g, S<sub>D1</sub>=0.53g, C<sub>s</sub>=0.14, SDC D, I<sub>e</sub>=1.0, R=6.5

FOR ADDITIONAL LOADING CRITERIA.

AL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR ND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR LITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

OR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR NCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE ARE INTENDED AS GUIDELINES ONLY AND MUSTBE VERIFIED.

OR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL ITS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE

RACTOR IS RESPONSIBLE FOR MAINTAINING SAFE EXCAVATION SLOPES AND ALL Y EXCAVATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH PART N OF WAC 296-155.

OR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, ES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK CTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR SPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY ESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER ITY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY ES TO THE OWNER. CONTRACTORS. OR OTHER ENTITIES OR PERSONS AT THE PROJECT

OR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND THE AL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS PECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT NGINEER.

TURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE TION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

VINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND AL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

#### IECTOR PLATE WOOD ROOF TRUSSES IFACTURED LUMBER (PSL'S, LSL'S, LVL'S)

OR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING OF CONNECTION EMBEDMENTS AND WALL OPENINGS FOR REVIEW PRIOR TO TION. CONTRACTOR SHALL COORDINATE WITH REINFORCEMENT SHOP DRAWINGS. SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

WING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF HEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW P DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW FOR CONFORMANCE WITH THE MEANS. METHODS. TECHNIQUES. SEQUENCES AND IS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE ND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. TTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE DFFICIAL.

WING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH S INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED ON AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

E SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST D BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS D TO BE OTHER THAN ASSUMED. NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE N REDESIGN.

SHALL BEAR ON FIRM, UNDISTURBED EARTH OR ON PROPERLY COMPACTED ALFILL. AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED. SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

ILS AT THE FOOTING GRADE ARE OBSERVED TO BE LOOSE OR SOFT, THE LOOSE/SOFT SOIL ULD BE OVER-EXCAVATED BELOW THE FOOTING TO THE COMPETENT BEARING SURFACE, AT 2 1/2 TO 5 FEET BELOW THE EXISTING GRADE UNDER THE THE PROPOSED STRUCTURE. CTED IN PLACE TO DENSE CONDITIONS. THE OVER-EXCAVATION SHOULD EXTEND ONE FOOT ALLY FROM EACH SIDE OF THE PROPOSED FOOTINGS, AND SHOULD BE BACKFILLED WITH COMPACTED GRANULAR STRUCTURAL FILL. UNLESS OTHERWISE NOTED, FOOTINGS SHALL ED BELOW COLUMNS OR WALLS ABOVE.

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- NOTED ON PLANS.

**C** tlas **Cl** ssociates WRAPPED IN FILTER FABRIC SHALL BE INSTALLED AT THE BASE OF THE PERIMETER FOOTING TO Atlas Associate International 5280 Highland Dr. Bellevue, Washington 98006 206.488.3688 v gengtan@gmail.com www.Atlasai.net SECTION 1905, 1906 AND ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A Mercer New WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT House 2423 63RD AVE SE MERCER ISLAND, WA 98040 project no: 53-19 SUBCONSULTANT: WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. FURNISH TO THE JOISTS AND BEAMS (2X & 3X MEMBERS) HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI (4X MEMBERS) **DOUGLAS FIR-LARCH NO. 1** GL ARCHITECTURAL ENGINEERING MINIMUM BASE VALUE, Fb = 1000 PSI PO BOX 1040 TACOMA, WA 98401-1040 (6X MEMBERS) DOUGLAS FIR-LARCH NO. 1 email: akegl2002@gmail.com MINIMUM BASE VALUE, Fb = 1350 PSI phone: (360)747-7509 (4X MEMBERS) DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2 Issue/Revision: 5.14 BLDG REVIEW 06.01.2020 APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NO. ISSUED FOR DATE C 2015 ATLAS ARCHITECTS COMPANY THESE DRAWINGS ARE THE PROPERTY OF ATLAS ARCHITECTS COMPANY AND ARE NOT TO BE REPRODUCED IN ANY MANNER, EXCEPT WITH THE PRIOR WRITTEN PERMISSION OF ATLAS. Date Drawn By Checked By TG/GL GL 01/2020 Sheet Title GENERAL **STRUCTURAL** STANDARD. PRESSURETREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO A RENTION NOTES Scale PER PLAN Sheet Number **G1.***V* 

#### CONCRETE

- MODERATE EXPOSURE.

WOOD

EXISTING CONCRETE SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING. UNLESS OTHERWISE DIRECT COLLECTED WATER TO AN APPROPRIATE OUTLET. UNDER NO CIRCUMSTANCES SHOULD ROOF DOWNSPOUT DRAIN LINES BE CONNECTED TO THE FOOTING DRAIN SYSTEM. ROOF DOWNSPOUTS MUST BE SEPARATELY CONNECTED TO AN APPROPRIATE DISCHARGE. CLEANOUTS SHOULD BE INSTALLED TO ALLOW FOR PERIODIC MAINTENANCE OF THE FOOTING DRAIN AND DOWNSPOUT TIGHTLINE SYSTEM. GC SHALL PLACE AND COMPACT BACKFILL MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 6-INCH LOOSE LIFT THICKNESS. ANY LOOSEN/SOFT FOUNDATION SUBSTRATE SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY (ASTIM D698, STANDARD PROCTOR). 28-DAY STRENGTH OF fc = 2,500 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH TABLE ACI 318 TABLE 4.2.1 60.000 PSI. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST SLABS AND WALLS (INT. FACE)...... GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4" FOLLOWING MINIMUM STANDARDS: POSTS: STUDS. PLATES & MISC. FRAMING: ALL WOOD IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER. THE GRADE. THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL PSL, LVL, AND LSL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC-ES REPORT ESR-1387 USING DOUGLAS FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. THE MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: PSL (2.0E) Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI LVL (2.0E) Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI LSL (1.55E) Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER, ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED. MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE. OF 0.25 PCF. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO A RETENTION OF 0.40 PCF. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO A RETENTION OF 0.60 PCF. SODIUM BORATE (SBX) TREATED WOOD SHALL NOT BE USED WHERE EXPOSED TO WEATHER. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACQ-A, CBA-A, CA-B, OR SBX TREATED WOOD SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL

16. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE. DOWELS EPOXY GROUTED INTO 17. PERIMETER 4-INCH DIAMETER SCHEDULE 40 PVC PERFORATED PIPE EMBEDDED IN PEA GRAVEL AND 18. FOUNDATION SUBSTRATE SHALL BE, AT A MINIMUM, UNDISTURBED NATIVE FIRM SOIL 19. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC 20. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy = 21. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: 22. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED INCONFORMANCE BETWEEN UNTREATED WOOD AND CONCRETE. 23. MANUFACTURED LUMBER, PSL, LVL, AND LSL, SHALL BE MANUFACTURED UNDER A PROCESS 24. DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE WEYERHAEUSER 25. UNLESS NOTIFIED OTHERWISE, PRESSURE TREATED WOOD SHALL BE TREATED PER AWPA

26	. TIMBER CONNECTORS CALLED OUT BY LETTERS COMPANY, AS SPECIFIED IN THEIR CATALOG NU MANUFACTURERS MAY BE SUBSTITUTED, PRO GREATER LOAD CAPACITIES. PROVIDE NUMBER MANUFACTURER. CONNECTORS SHALL BE INST RECOMMENDATIONS.
27	. WOOD FASTENERS A. NAIL SIZES SPECIFIED ON DRAWINGS A SPECIFICATIONS:
	SIZELENGTHDIAMETER8d2-1/2"0.131"16d BOX3-1/2"0.135"
	IF CONTRACTOR OR OWNER PROPOSES T NAIL SPECIFICATIONS TO THE ENGINEER ( FOR REVIEW AND APPROVAL.
	NAILS - PLYWOOD (APA RATED SHEATHING DRIVEN FLUSH TO FACE OF SHEATHING W
28	. PLYWOOD SHEATHING SHALL BE GRADE C-D, IN CONFORMANCE WITH DOC PS 1. ORIENTED EXPOSURE RATING AND PANEL INDEX MAY BE U
	ROOF SHEATHING SHALL BE $\frac{1}{2}$ " (NOMINAL) FLOOR SHEATHING SHALL BE $\frac{3}{4}$ " (NOMINAL WALL SHEATHING SHALL BE 1/2" (NOMINAL
	REFER TO WOOD FRAMING NOTES BELOW
26	PREFABRICATED CONNECTOR PLATE WOOD RC MANUFACTURER IN ACCORDANCE WITH THE "N PLATE-CONNECTED WOOD TRUSS CONSTRUCT THE SPANS AND CONDITIONS SHOWN ON THE PI
	TOP CHORD LIVE LOAD25 PSFTOP CHORD DEAD LOAD10 PSFBOTTOM CHORD DEAD LOAD5 PSFTOTAL LOAD40 PSF
	WIND UPLIFT (TOP CHORD) 5 PSF BOTTOM CHORD LIVE LOAD 10 PSF (BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURENTLY WITH THE ROOF LIVE LOAD)
	WOOD TRUSSES SHALL UTILIZE APPROVED CO SUBMIT SHOP DRAWINGS AND DESIGN CALC STRUCTURAL ENGINEER FOR REVIEW PRIOR T SHALL BE SIGNED AND STAMPED BY A STRU STATE OF WASHINGTON. PROVIDE FOR SHAF HIPS, VALLEYS, ETC., SHOWN ON THE DRAWIN HIP, VALLEY, AND INTERSECTION AREAS (USE STEP-DOWN TRUSSES, ETC.) SHALL BE DETE SPECIFICALLY INDICATED ON THE PLANS. PRO TO GIRDER TRUSS CONNECTION DETAILS AN PROVIDE FOR ALL TEMPORARY AND PERMANE
27	. WOOD FRAMING NOTESTHE FOLLOWING APPL THE PLANS:
	A. ALL WOOD FRAMING DETAILS NOT SHOWN THE MINIMUM STANDARDS OF THE INTERNATION NAILING, UNLESS OTHERWISE NOTED, SHALL OF COORDINATE THE SIZE AND LOCATION OF ALL OF ARCHITECTURAL DRAWINGS.
	B. WALL FRAMING: ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. T PROVIDED AT THE END OF ALL WALLS AND AT EA AT BEAM OR HEADER BEARING LOCATIONS. TWO OVER ALL OPENINGS NOT OTHERWISE NOTED. S SHALL BE PROVIDED THROUGH FLOORS TO SUP SOLID BLOCKING AT MID-HEIGHT OF ALL STUD W
	ALL WALLS SHALL HAVE A SINGLE BOTTOM PLAT NAIL TOP PLATE TO EACH STUD WITH TWO 16d N NAIL EACH STUD TO BOTTOM PLATE WITH TWO 1 TOP PLATE WITH 16d @ 12" O.C. AND LAP MININ PROVIDE EIGHT 16d NAILS @ 4" O.C. EACH SIDE J
	ALL STUD WALLS SHALL HAVE THEIR LOWER V FRAMING BELOW WITH TWO ROWS OF 16d NAILS TO CONCRETE BELOW WITH 5/8" DIAMETER AND EMBEDDED 7" MINIMUM, UNLESS INDICATED OTH BUILT-UP POSTS SHALL BE NAILED TO EACH OTH ON-CENTER. UNLESS OTHERWISE NOTED, GYPS TO THE INTERIOR SURFACE OF ALL STUDS AND TYPE S OR W SCREWS @ 8" ON-CENTER. UN 1/2" (NOMINAL) APA RATED SHEATHING (SPAN R TO ALL EXTERIOR SURFACES WITH 8d NAILS @ AND TOP AND BOTTOM PLATES (BLOCK UN-S INTERMEDIATE STUDS AND BLOCKING WITH 8d

RS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON UMBER C-2015. EQUIVALENT DEVICES BY OTHER OVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR R AND SIZE OF FASTENERS AS SPECIFIED BY STALLED IN ACCORDANCE WITH THE MANUFACTURER'S

ARE BASED ON THE FOLLOWING

THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT (PRIOR TO CONSTRUCTION)

IG) FASTENERS TO FRAMING SHALL BE WITH NO COUNTERSINKING PERMITTED.

, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE STRAND BOARD OF EQUIVALENT THICKNESS, USED IN LIEU OF PLYWOOD.

L) WITH SPAN RATING  ${}^{32}/_{16}$ AL) WITH SPAN RATING  $^{48}\!\!/_{24}$ L) WITH SPAN RATING 24/0.

W FOR TYPICAL NAILING REQUIREMENTS.

COOF TRUSSES SHALL BE DESIGNED BY THE "NATIONAL DESIGN STANDARD FOR METAL CTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR PLANS. LOADING SHALL BE AS FOLLOWS:

CONNECTOR PLATES (GANGNAIL OR EQUAL). LCULATIONS TO THE ARCHITECT AND TO FABRICATION. SUBMITTED DOCUMENTS RUCTURAL ENGINEER REGISTERED IN THE APES, BEARING POINTS, INTERSECTIONS, INGS. EXACT COMPOSITION OF SPECIAL E OF GIRDER TRUSSES, JACK TRUSSES, FERMINED BY THE MANUFACTURER UNLESS OVIDE ALL TRUSS TO TRUSS AND TRUSS AND REQUIRED CONNECTION MATERIALS. ENT TRUSS BRACING AND BRIDGING.

PLY UNLESS OTHERWISE SHOWN ON

VN OTHERWISE SHALL BE CONSTRUCTED TO IONAL BUILDING CODE. MINIMUM CONFORM TO IBC TABLE 2304.10.1. OPENINGS WITH MECHANICAL AND

TWO STUDS MINIMUM SHALL BE EACH SIDE OF ALL OPENINGS. AND VO 2x8 HEADERS SHALL BE PROVIDED SOLID BLOCKING FOR WOOD COLUMNS IPPORTS BELOW. PROVIDE CONTINUOUS WALLS OVER 10'-0" IN HEIGHT.

ATE AND A DOUBLE TOP PLATE. END NAILS, AND TOENAIL OR END ) 16d NAILS. FACE NAIL DOUBLE IMUM 4'-0" AT JOINTS AND JOINT.

WOOD PLATES ATTACHED TO WOOD LS @ 12" ON-CENTER, OR ATTACHED NCHOR BOLTS @ 4'-0" ON-CENTER HERWISE. INDIVIDUAL MEMBERS OF "HER WITH TWO ROWS OF 16d @12" PSUM WALLBOARD SHALL BE FASTENED ID PLATES WITH NO. 6 X 1-1/4" JNLESS INDICATED OTHERWISE. RATING 24/0) SHALL BE NAILED 6" ON-CENTER AT PANEL EDGES SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

C. WALL ANCHORAGE: EXPANSION BOLTS INTO CONCRETE SHALL BE WEDGE-ALL ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-1396, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS.

D. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/ TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.

#### ANCHORAGE

EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1772. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

#### RENOVATION

EXISTING FLOOR SYSTEMS TO 40 PSF.

22. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND AITC STANDARDS. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv = 265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8. Fb = 2400 PSI. Fv = 265 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 3,000' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

23. EXPANSION BOLTS INTO CONCRETE SHALL BE WEDGE-ALL ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-1396, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS.

24. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

25. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON



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### Mercer New House

2423 63RD AVE SE MERCER ISLAND, WA 98040

project no: 53-19

SUBCONSULTANT:



GL ARCHITECTURAL ENGINEERING PO BOX 1040 TACOMA, WA 98401-1040 email: akegl2002@gmail.com phone: (360)747-7509

Issue/Revision:

NO. ISSUED FOR

DATE

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Drawn By TG/GL

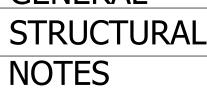
Date 01/2020

Sheet Title

GENERAL

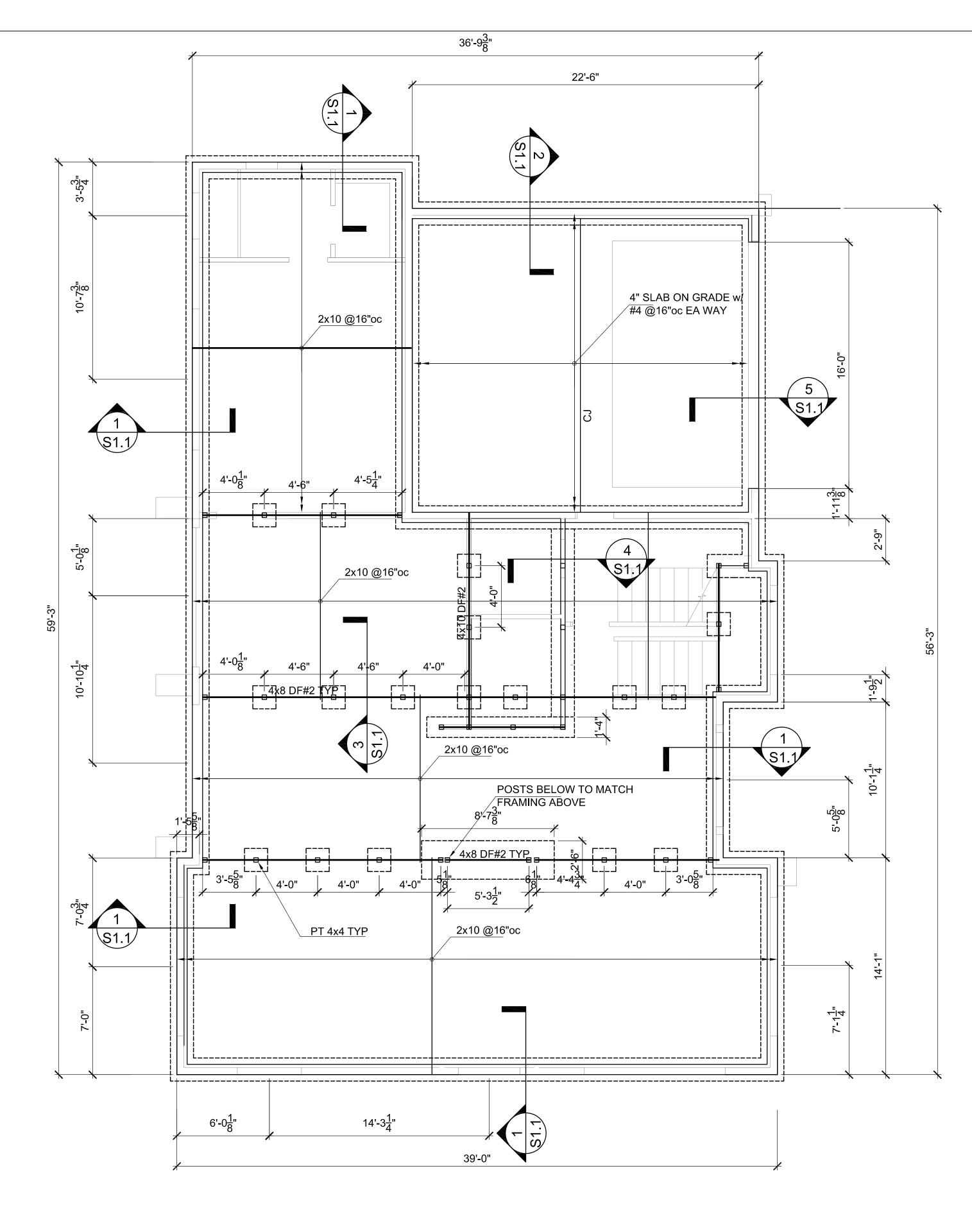
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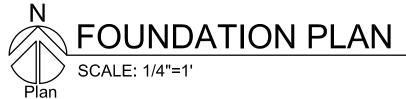
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Scale PER PLAN Sheet Number

**G1.**1



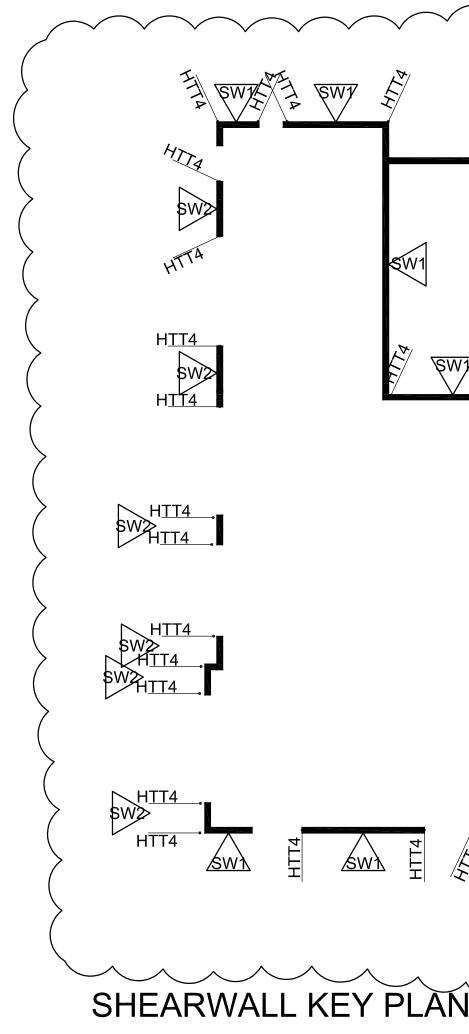


PLAN NOTES:

- ENGINEER OF ANY DISCREPANCIES.

- STUDS.
- CLEARING AREA SHOWN.
- CONNECTIONS.
- 9. REFER TO GENERAL NOTES FOR OTHER REQUIREMENTS.

HTT4 HOLDDOWN AT BOTTOM OF WALL \_\_\_\_ CONC STEM WALL AND \_\_\_\_\_ FDN \_\_\_\_



1. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL USE DIMENSIONS SHOWN IN ARCHITECTURAL DRAWINGS AND ACTUAL FIELD MEASUREMENTS. NOTIFY THE

2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF BEAMS, AND FACE OF CONCRETE STEM WALL AND CONCRETE FLAT WORK. CENTER OF POSTS AND PIERS,

3. ALL EXTERIOR SHEAR WALLS SHALL BE SW1 AS NOTED IN SHEARWALL SCHEDULE, UNLESS NOTIFIED OTHERWISE. REFER TO SHEARWALL KEY PLAN.

4. TYPICAL HEADER SIZE SHALL BE 4X8 DF NO.2, UNO. 5. PROVIDE SOLID VERTICAL GRAIN BLOCKING IN THE FLOOR FRAMING AT ALL BEARING

6. GC SHALL VERIFY ALL EXISTING SITE CONDITIONS, UTILITY AND SERVICES PRIOR TO ANY TRENCHING, EXCAVATION AND DIGGING.

7. GC SHALL REMOVE ANY RUBBISH, DEBRIS, AND ORGANIC MATERIALS FROM THE SITE

8. GC SHALL PROVIDE TEMPERARY BRACING PRIOR TO THE COMPLETION OF FINAL

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	SW1		
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SW1	HTTA	SWT L	
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SHEARWALL KEY PLAN (FIRST FLOOR SHEAR WALLS)



5280 Highland Dr. Bellevue, Washington 98006 206.488.3688 v gengtan@gmail.com www.Atlasai.net

# Mercer New House

2423 63RD AVE SE MERCER ISLAND, WA 98040

SUBCONSULTANT:

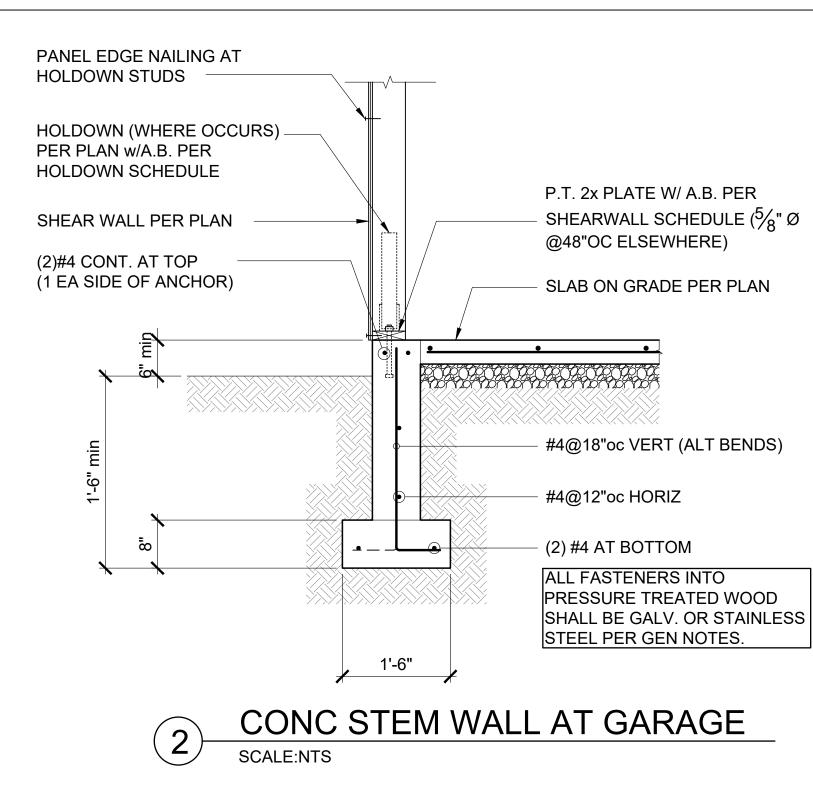
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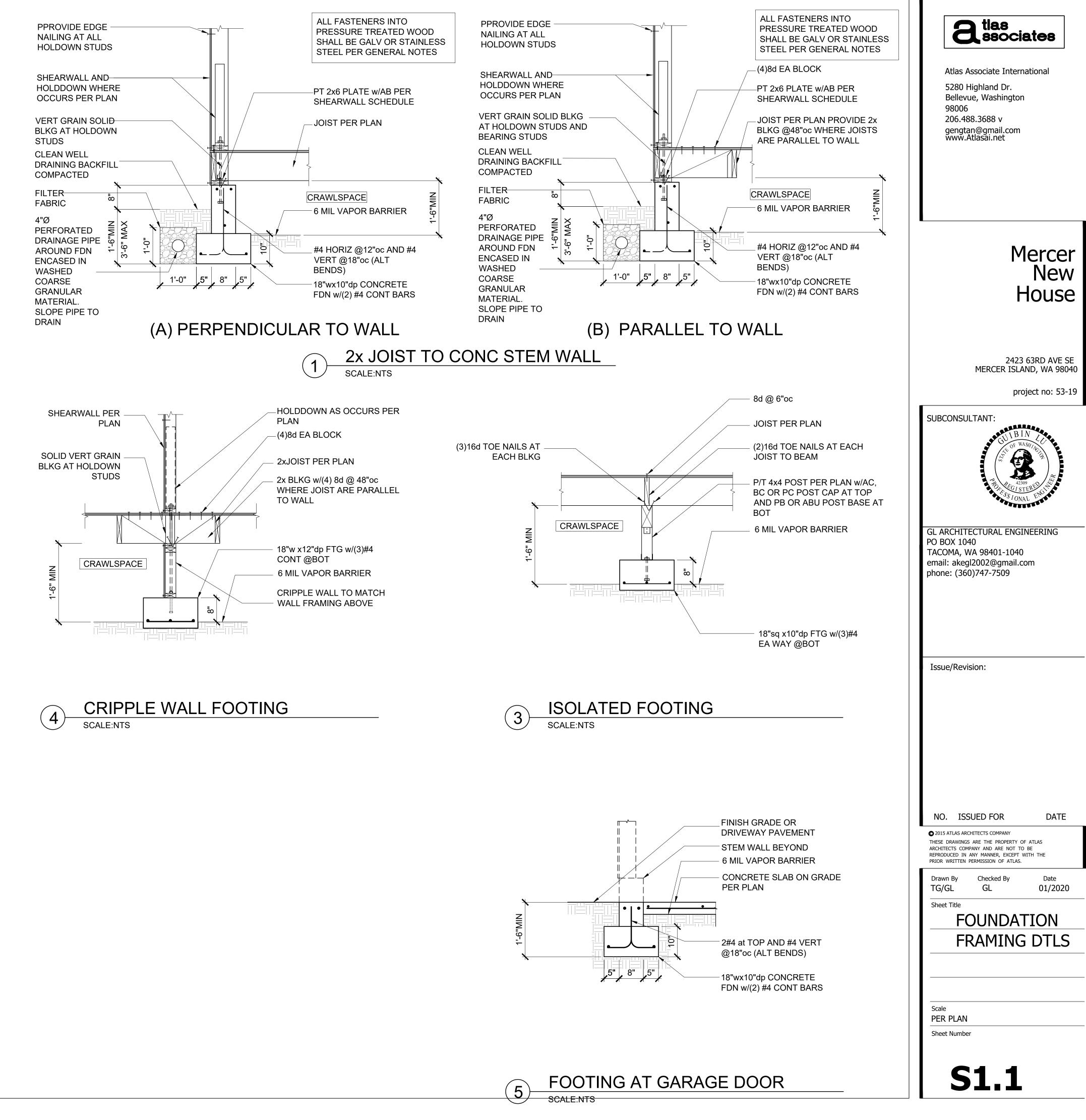
GL ARCHITECTURAL ENGINEERING PO BOX 1040 TACOMA, WA 98401-1040 email: akegl2002@gmail.com phone: (360)747-7509

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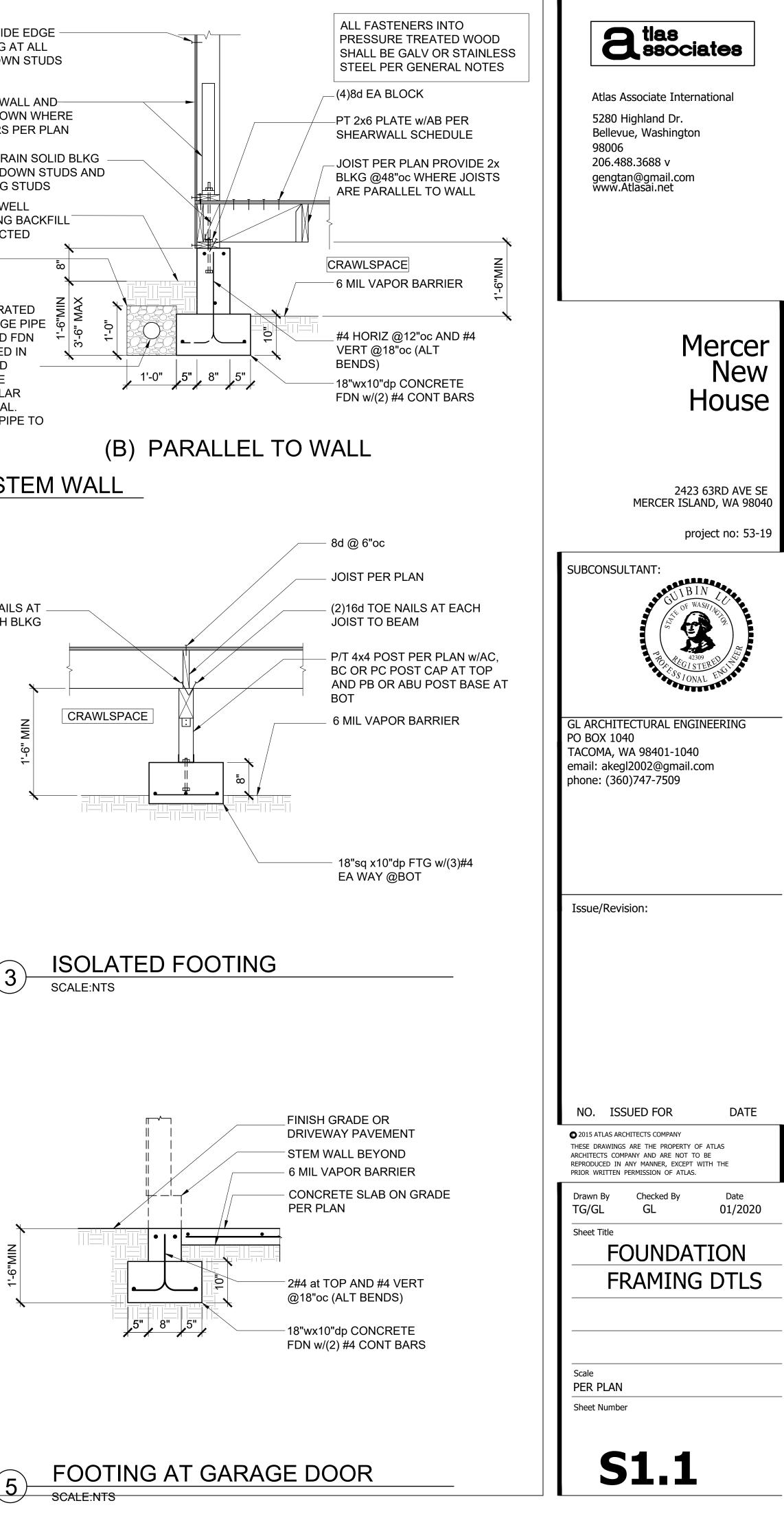
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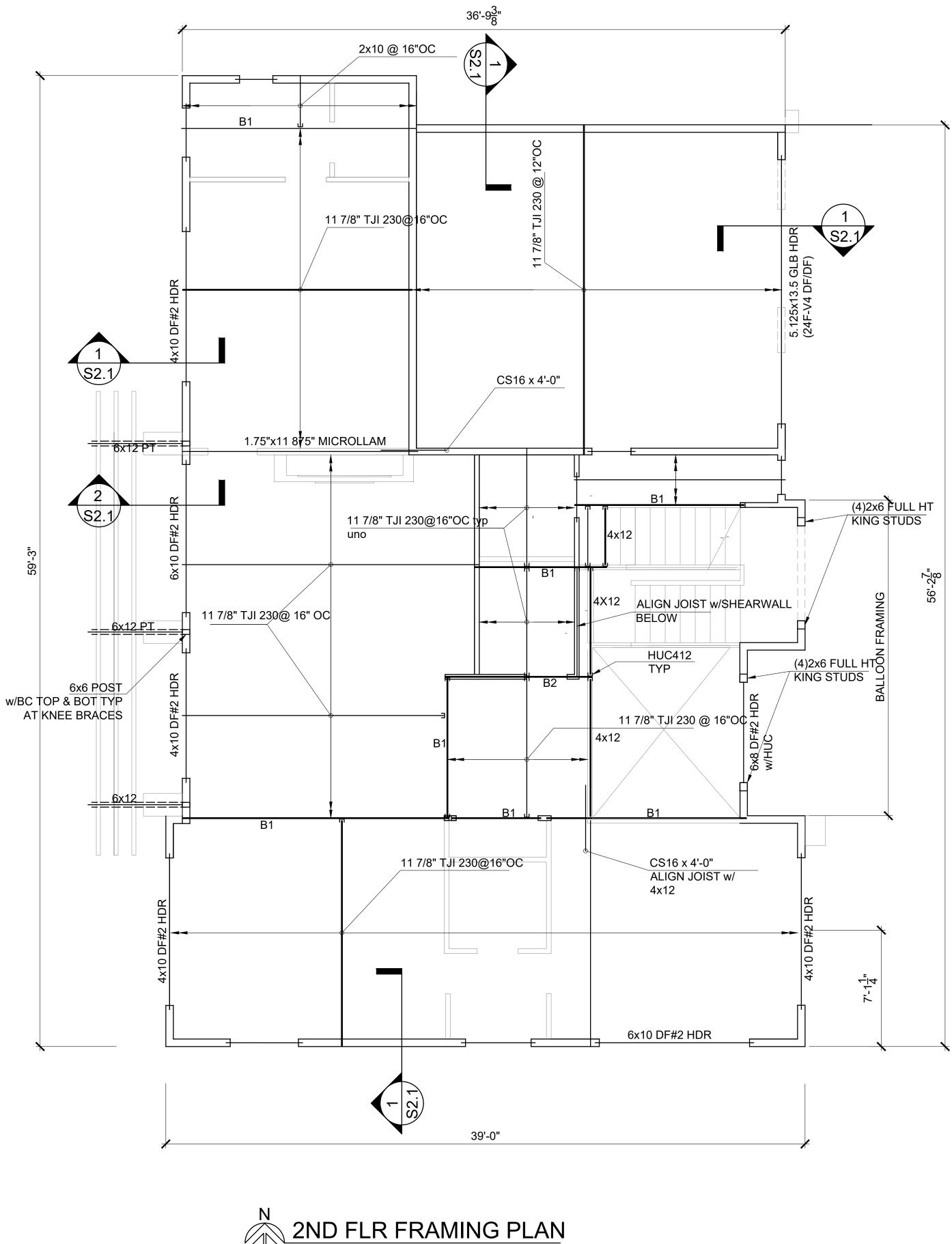
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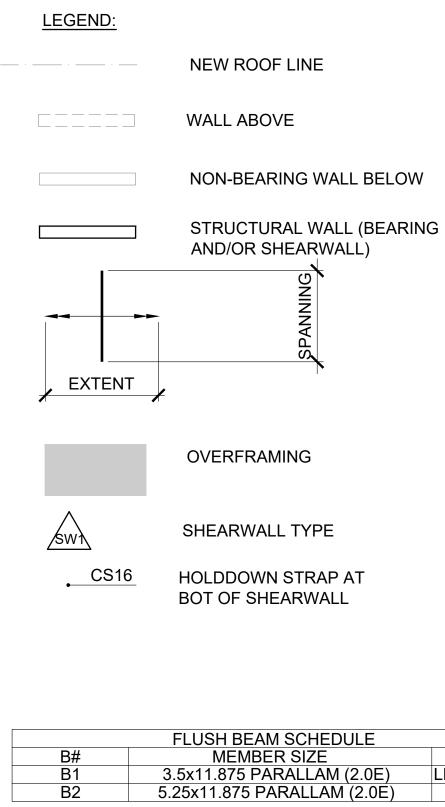




### PLAN NOTES:

1.	DO NOT SCALE DRAWINGS. THE CARCHITECTURAL DRAWINGS AND ENGINEER OF ANY DISCREPANCIE
2.	ALL DIMENSIONS ARE TO FACE OF STEM WALL AND CONCRETE FLAT
3.	TYPICAL HEADER SIZE SHALL BE 4
4.	TYPICAL EXTERIOR WOOD STUDS
5.	UNLESS NOTIFIED OTHERWISE, TV END OF ALL WALLS AND AT EACH BEARING LOCATIONS.
6.	PROVIDE SOLID VERTICAL GRAIN E STUDS.
7.	ALL EXTERIOR WALLS SHALL BE S SCHEDULE, UNO. REFER TO SHEA

8. REFER TO GENERAL NOTES FOR MORE INFORMATION.



B2

SCALE: 1/4"=1'

Plan

E CONTRACTOR SHALL USE DIMENSIONS SHOWN IN D ACTUAL FIELD MEASUREMENTS. NOTIFY THE IES.

OF STUDS, FACE OF BEAMS, AND FACE OF CONCRETE T WORK. CENTER OF POSTS AND PIERS,

E 4X8 DF NO.2, UNO.

S SIZE SHALL BE 2X6, UNO.

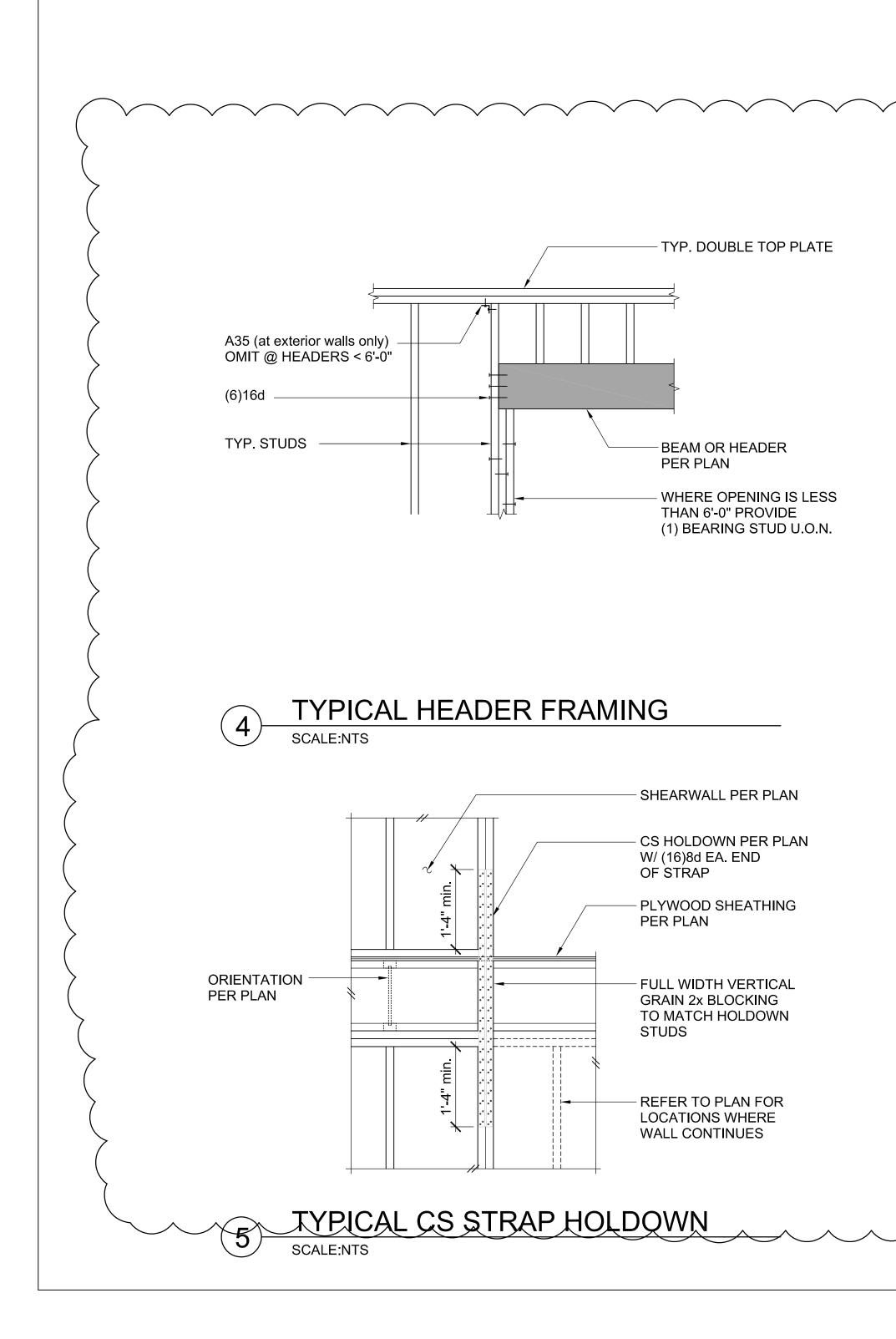
TWO STUDS MINIMUM SHALL BE PROVIDED AT THE H SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER

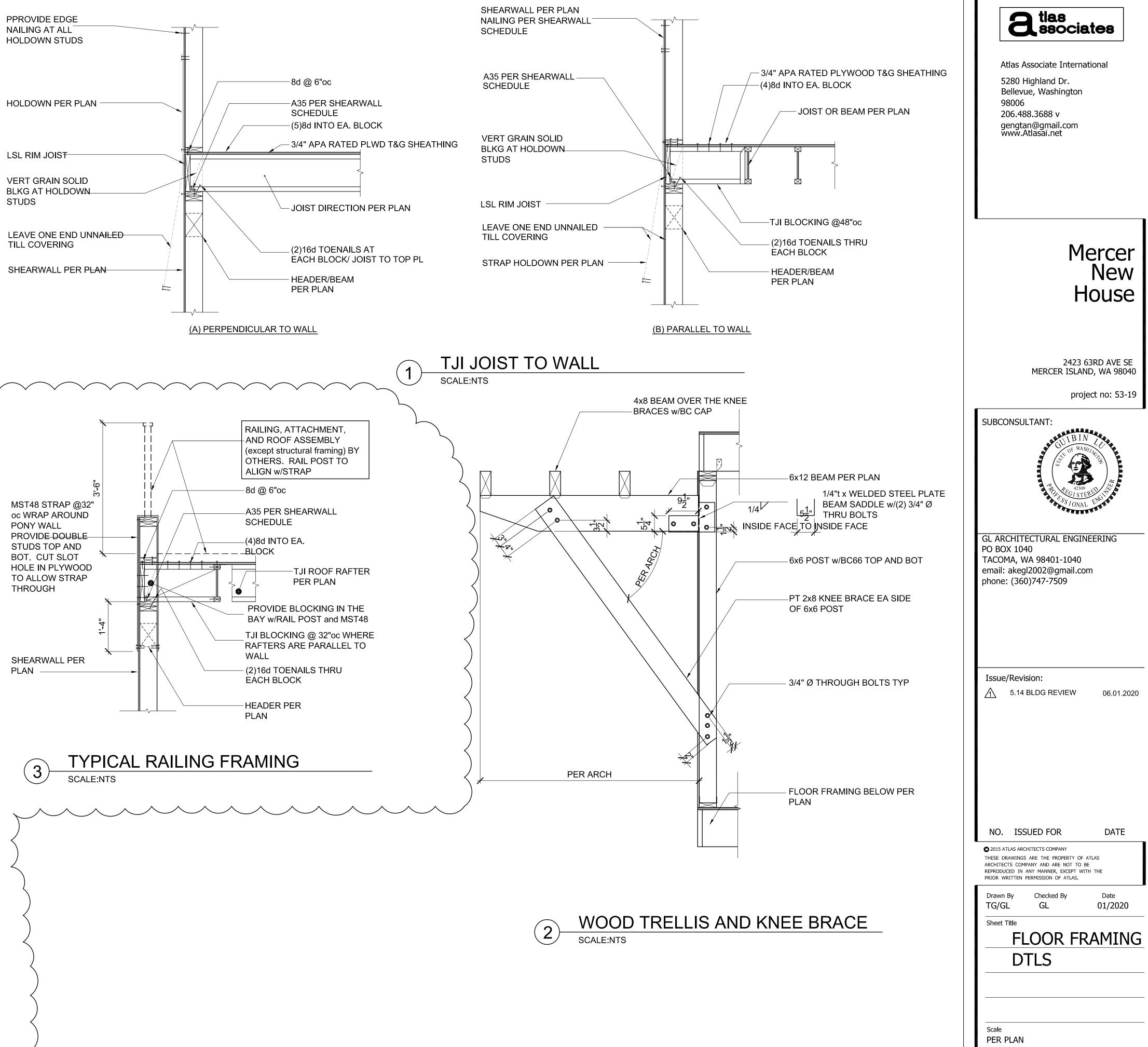
N BLOCKING IN THE FLOOR FRAMING AT ALL BEARING

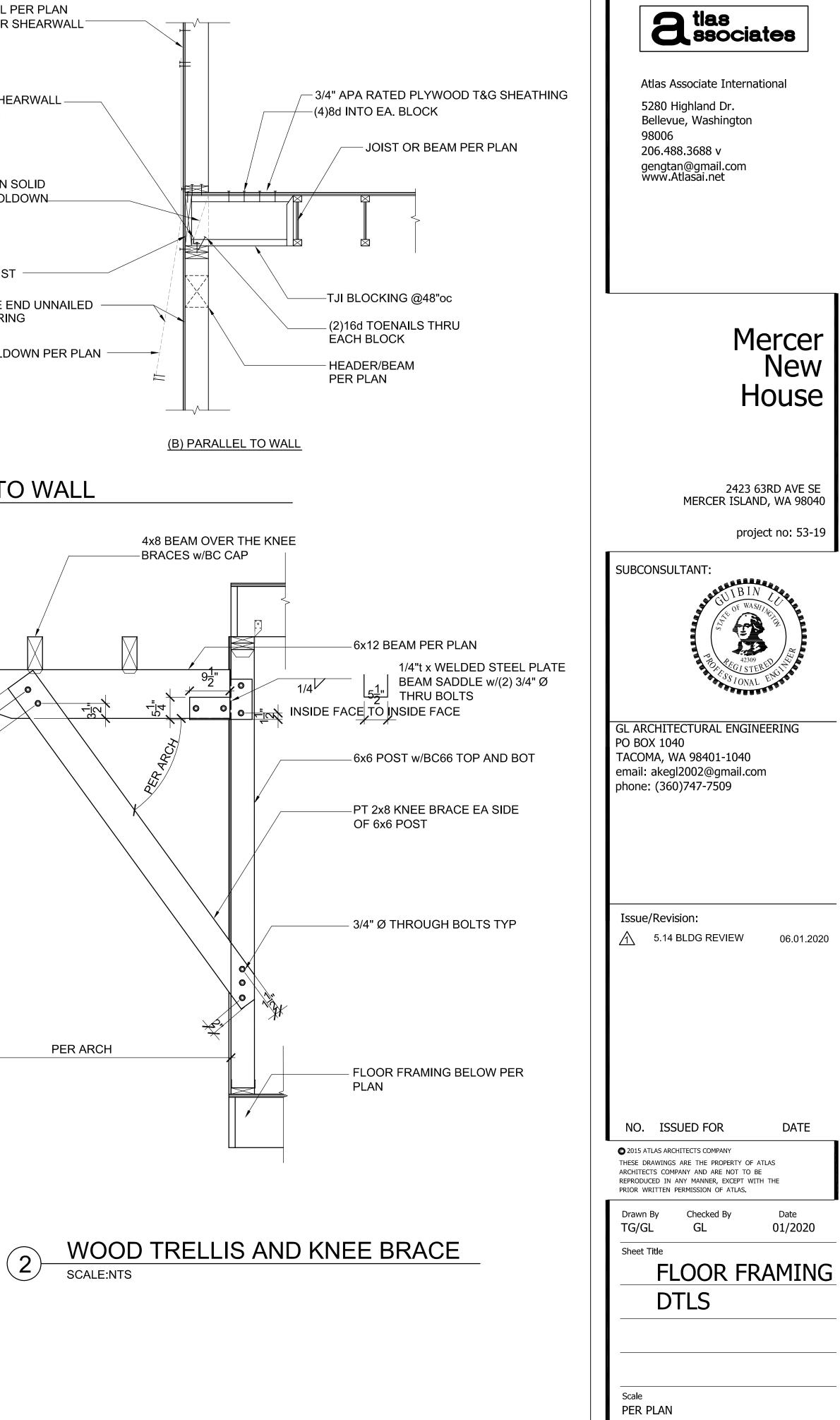
SHEATHED AND NAILED AS SW1 IN SHEARWALL EARWALL KEYPLAN.

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<b>A</b> tlas ssociates
Atlas Associate International 5280 Highland Dr. Bellevue, Washington 98006 206.488.3688 v gengtan@gmail.com www.Atlasai.net
Mercer New House
2423 63RD AVE SE MERCER ISLAND, WA 98040 project no: 53-19
SUBCONSULTANT:
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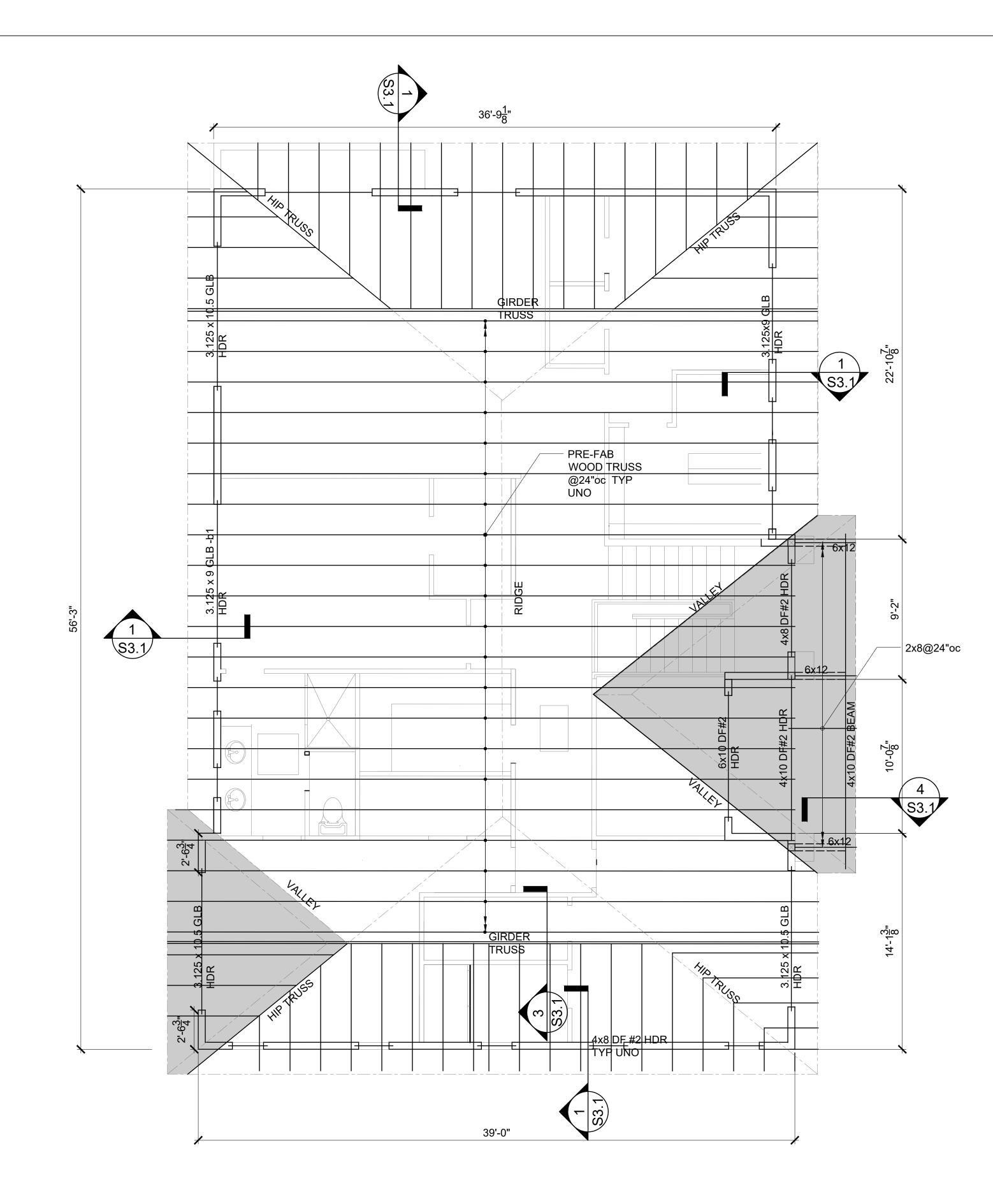






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**S2.1** 





- PLAN NOTES: ENGINEER OF ANY DISCREPANCIES. 3. TYPICAL HEADER SIZE SHALL BE 4X8 DF NO.2, UNO. 4. TYPICAL EXTERIOR WOOD STUDS SIZE SHALL BE 2X6, UNO. BEARING LOCATIONS. STUDS. SCHEDULE, UNO. REFER TO SHEARWALL KEYPLAN. 8. REFER TO GENERAL NOTES FOR MORE INFORMATION. LEGEND: NEW ROOF LINE WALL ABOVE NON-BEARING WALL BELOW STRUCTURAL WALL (BEARING AND/OR SHEARWALL) EXTENT OVERFRAMING SHEARWALL TYPE ∕sw∖∖ \_\_\_\_\_CS16 HOLDDOWN STRAP AT BOT OF SHEARWALL के इसम अ C<u>S16</u> CS16 C<u>S16</u> SW) CS16 C<u>S16</u> SWD CS16 C<u>S16</u> C<u>S16</u> SWDC<u>S16</u>
- C<u>S16</u> SW1C<u>S16</u>

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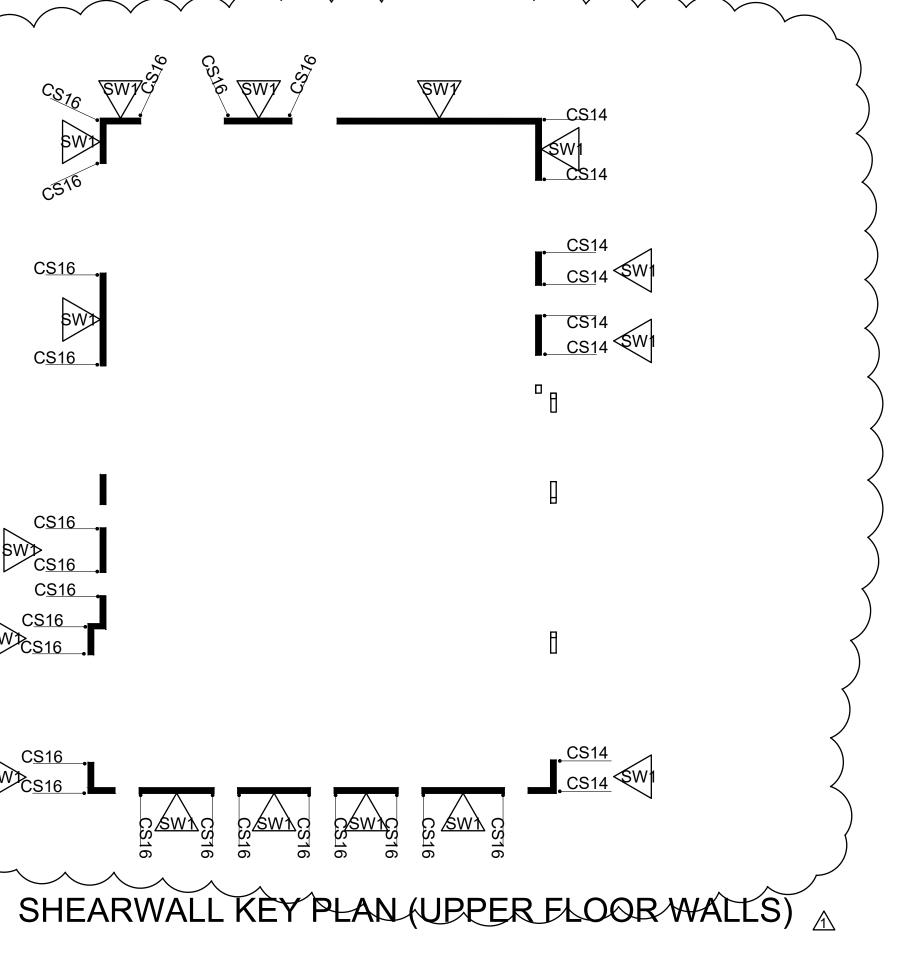
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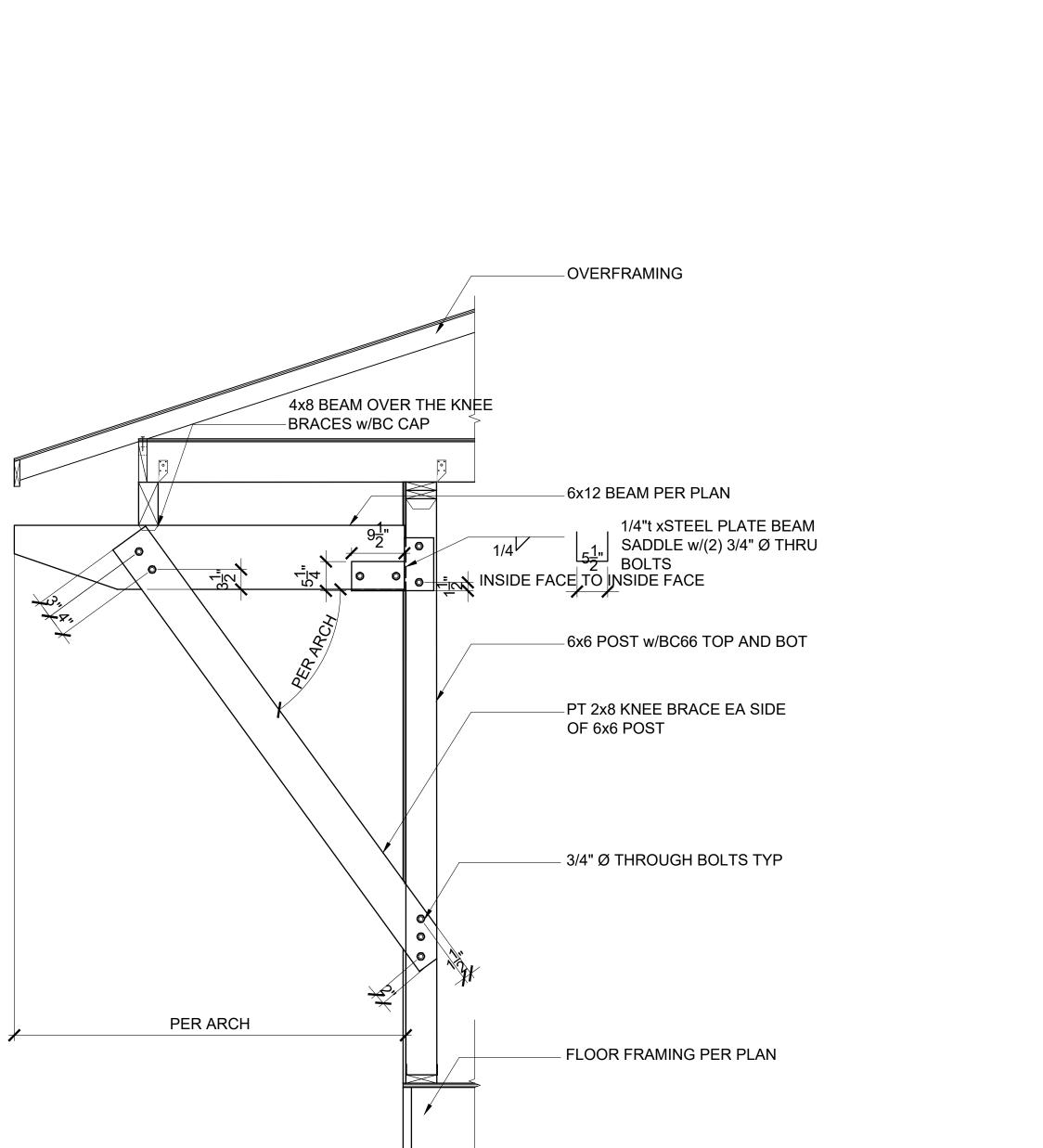
6. PROVIDE SOLID VERTICAL GRAIN BLOCKING IN THE FLOOR FRAMING AT ALL BEARING

 $\Lambda$ 

7. ALL EXTERIOR WALLS SHALL BE SHEATHED AND NAILED AS SW1 IN SHEARWALL



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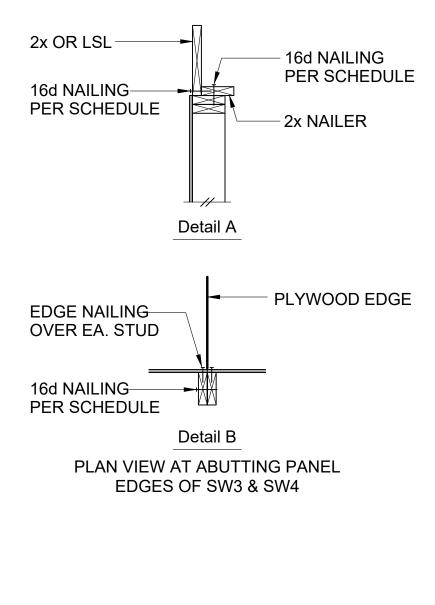


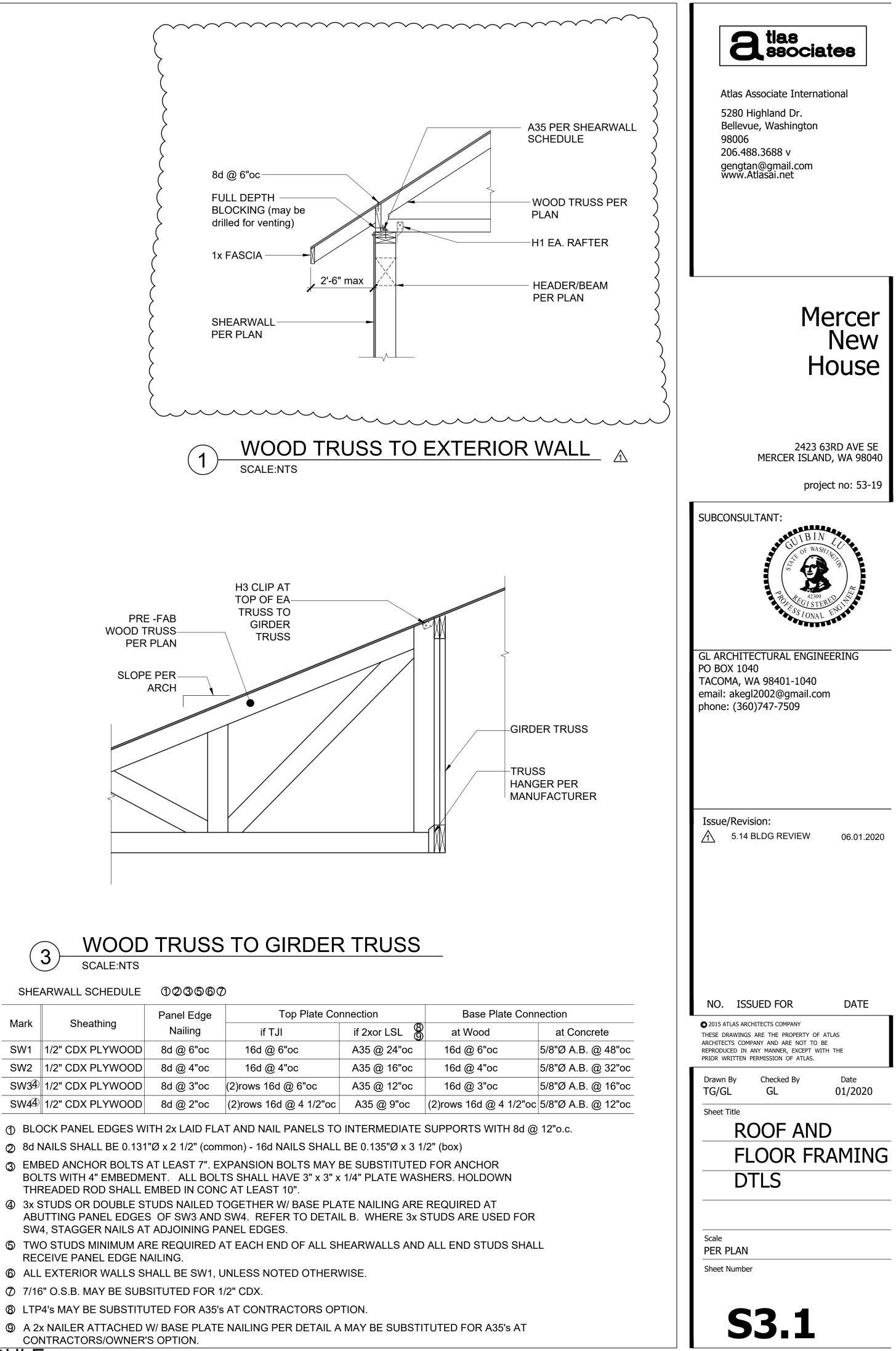


SCALE:NTS

### ROOF OVERFRAMING TO KNEE BRACES









SW1         1/2" CDX PLYWOOD         8d @ 6"oc         16d @           SW2         1/2" CDX PLYWOOD         8d @ 4"oc         16d @           SW3 <sup>4</sup> 1/2" CDX PLYWOOD         8d @ 3"oc         (2)rows 1		Mark	Sheathing	Panel Edge	
SW2         1/2" CDX PLYWOOD         8d @ 4"oc         16d @           SW3 <sup>(4)</sup> 1/2" CDX PLYWOOD         8d @ 3"oc         (2)rows 1				Nailing	if T.
SW3 <sup>4</sup> 1/2" CDX PLYWOOD 8d @ 3"oc (2)rows 1	_	SW1	1/2" CDX PLYWOOD	8d @ 6"oc	16d @
	-	SW2	1/2" CDX PLYWOOD	8d @ 4"oc	16d @
SW4 <sup>4</sup> 1/2" CDX PLYWOOD 8d @ 2"oc (2)rows <sup>2</sup>	_	SW34	1/2" CDX PLYWOOD	8d @ 3"oc	(2)rows 160
	-	SW4	1/2" CDX PLYWOOD	8d @ 2"oc	(2)rows 16

THREADED ROD SHALL EMBED IN CONC AT LEAST 10".

SW4, STAGGER NAILS AT ADJOINING PANEL EDGES.

RECEIVE PANEL EDGE NAILING.

⑦ 7/16" O.S.B. MAY BE SUBSITUTED FOR 1/2" CDX.

CONTRACTORS/OWNER'S OPTION.

SHEARWALL SCHEDULE SCALE:NTS