GENERAL NOTES

- A. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL GOVERNING BUILDING CODES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK THAT HAS BEEN PERFORMED WHICH DOES NOT
- B. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE TO THE DESIGNER'S CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR REPORTING IMMEDIATELY TO THE ARCHITECT ANY DISCREPANCIES OR DETAILS WHICH DO NOT MEET BUILDING CODES AND CONSTRUCTION STANDARDS.
- C. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IN THE EVENT OF CONFLICTS OR CHANGES BETWEEN DETAILS, OR BETWEEN THE PLANS AND SPECIFICATIONS, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY.
- D. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND PIPING
- E. THE GC SHALL COORDINATE ALL OPERATIONS WITH THE OWNER, INCLUDING AREA FOR WORK, MATERIALS STORAGE, AND ACCESS TO AND FROM THE WORK, SPECIAL CONDITIONS OR NOISY WORK, TIMING OF WORK AND INTERRUPTION OF MECHANICAL AND ELECTRICAL SERVICES, NOISY OR DISRUPTIVE WORK SHALL BE SCHEDULED AT LEAST ONE (1) WEEK IN ADVANCE OF THE TIME WORK IS TO
- F. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HIGHEST STANDARD OF WORKMANSHIP IN GENERAL AND WITH SUCH STANDARDS AS ARE
- G. GC SHALL SUBMIT SAMPLES OF ALL FINISHES OF SUCH SIZE AND NUMBER THAT THEY REPRESENT A REASONABLE DISTRIBUTION OF COLOR RANGES AND PATTERN PRIOR TO INSTALLATION FOR DESIGNER'S APPROVAL. GC SHALL PROVIDE SHOP DWGS AND PRODUCT DATA FOR DESIGNER'S APPROVAL ON ALL SPECIAL ITEMS REQUIRING CUSTOM FABRICATION (SHALL INCLUDE RATED FIRE
- H. EXISTING WORK DAMAGED AS A RESULT OF WORK DONE UNDER THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL CONDITION AND FINISHED TO MATCH ADJACENT FINISHES, SUBJECT TO DESIGNER'S APPROVAL, AND AT NO ADDITIONAL COST TO THE OWNER. ALL REPLACEMENT MATERIALS REQUIRED TO MATCH EXISTING MATERIALS SHALL DO SO WITH RESPECT TO TYPE, PATTERN, TEXTURE, SIZE, SHAPE, COLOR AND METHOD OF INSTALLATION INSOFAR AS PRACTICABLE, AND SHALL BE APPROVED BY THE DESIGNER AND OWNER PRIOR
- MATERIALS, ARTICLES, DEVICES AND PRODUCTS ARE SPECIFIED IN THE DOCUMENTS BY LISTING ACCEPTABLE MANUFACTURERS OR PRODUCTS. BY REQUIRING COMPLIANCE WITH REFERENCED STANDARDS, OR BY PERFORMANCE SPECIFICATIONS. FOR ITEMS SPECIFIED BY NAME, SELECT ANY PRODUCT NAMED FOR THOSE SPECIFIED BY REFERENCE STANDARDS OR BY PERFORMANCE SPECIFICATIONS SELECT ANY PRODUCT MEETING OR EXCEEDING SPECIFIED CRITERIA. FOR APPROVAL OF AN ITEM NOT SPECIFIED, SUBMIT REQUIRED SUBMITTALS, PROVIDING COMPLETE BACK-UP INFORMATION FOR PURPOSES OF EVALUATION. WHERE BUILDING STANDARD ITEMS ARE CALLED FOR, NO SUBSTITUTE WILL BE ACCEPTED.

DEFERRED SUBMITTALS

- 1. THE MECHANICAL WORK FOR THE PROJECT SHALL BE PERFORMED AS DESIGN-BUILD. THE GENERAL CONTRACTOR SHALL SUBMIT WITH THE BID A PROPOSED HVAC AND PLUMBING DRAWING THAT COORDINATES WITH THE DESIGN
- 2. THE GENERAL CONTRACTOR'S MECHANICAL SUBCONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND SECURING ALL NECESSARY MECHANICAL
- 3. THE GENERAL CONTRACTOR'S PLUMBING SUBCONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND SECURING ALL NECESSARY PLUMBING PERMITS.

ACOUS.

ANOD.

BLDG.

BLK'G.

BLK.

C.I.

CLG.

CMU

COL.

CONC.

CONT.

CONSTR

CONTR.

DBL

DTL.

D.S.

DRWG.

ELEC.

ENCL.

EQ.

ASR

BD

APPROX

- 1. THE ELECTRICAL WORK FOR THE PROJECT SHALL BE PERFORMED AS DESIGN-BUILD. THE GENERAL CONTRACTOR SHALL SUBMIT WITH THE BID A PROPOSED ELECTRICAL DRAWING THAT COORDINATES WITH THE DESIGN
- 2. THE GENERAL CONTRACTOR'S ELECTRICAL SUBCONTRACTOR WILL BE RESPONSIBLE FOR APPLYING FOR AND SECURING ALL NECESSARY ELECTRICAL PERMITS.

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE DESIGNER WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING

EXH.

EXP.

EXT.

F.D.

FHS

F.I.O.

GALV.

HORIZ.

HTR.

LIQ.

INSUL.

EXIST.

AIR CONDITIONER

ADJUSTABLE, ADJACENT

ACOUSTICAL

ALUMINUM

ANODIZED

BUILDING

BLOCKING

BOTTOM

BETWEEN

CEILING

UNIT

COLUMN

DOUBLE

CONCRETE

CONTINUOUS

CONTRACTOR

CERAMIC TILE

DOWNSPOUT

FINISH SYSTEM

ELECTRICAL

ENCLOSURE

EQUAL

DRAWING

DRINKING FOUNTAIN

EXTERIOR FINISH SYSTEM

EXTERIOR INSULATION &

ELEVATION, ELEVATOR

CONSTRUCTION

CATCH BASIN

CENTER LINE

CAST IN PLACE

CONCRETE MASONRY

CAST IRON

BLOCK

BEAM

APPROXIMATE

AUTOMATIC

EXHAUST

EXISTING

EXPANSION

FLOOR DRAIN

FOUNDATION

FACTORY FINISH

FLAT HEAD SCREW

F.R.P.P. FIBER REINFORCED PLASTIC

GALVANIZED IRON

GYPSUM BOARD

GYPSUM WALLBOARD,

FURNISHED & INSTALLED

GYPSUM LATH & PLASTER

EXTERIOR

BY OWNER

GALVANIZED

HOSE BIBB

HORIZONTAL

INSULATION

LONG, LENGTH

LAMINATE, LAMINATED

M.B.S. METAL BUILDING SUPPLIER

LINEAR FOOT, LINEAL FOOT

HEIGHT

JT./JTS. JOINT, JOINTS

LT.WT. LIGHT WEIGHT

MECH. MECHANICAL

MEZZ. MEZZANINE

MASONRY

MAXIMUM

HEATER

HANDICAPPED

HOLLOW METAL

GAUGE

ABBREVIATIONS

MFG.

MFR.

M.H.

M.O.

M.R.

MULL

MTD.

O.C.

OP'G.

OPP.

PTN.

PLYWD.

PLBG.

PNL.

QTR.

R.L.

REC'D.

REF.

MANUFACTURING

MANUFACTURER

MISCELLANEOUS

MASONRY OPENING

NOT IN CONTRACT

NOT TO SCALE

MOISTURE RESISTANT

MANHOLE

MINIMUM

MULLION

NOMINAL

OVERALL

ON CENTER

OVERHEAD

OPENING

OPPOSITE

PLAS.LAM. PLASTIC LAMINATE

PLYWOOD

PLUMBING

PROJECT

VALVE

QUARTER

RECEIVED

RADIUS

QUARRY TILE

ROOF DRAIN

RAIN LEADER

REFRIGERATOR

REINFORCING

POINT

PARTITION

PERPENDICULAR

PANEL, PANELING

PRESSURE REDUCING

PLATE, PROPERTY LINE

MOUNTED

MOUNTING

VICINITY MAP



REQUIRED

SCHEDULE

SIMILAR

R.O.

S.C.

SHT.

SIM.

S.I.O.

S.S.

SST STD.

STRUCT.

SUSP.

SYS.

TYP.

UTIL.

U.B.C.

U.O.N.

V.C.T.

VERT.

W/

W.P.

W.R.

WT.

W.W.M.

W.W.F.

S.O.I.C.

SCHED.

ROUGH OPENING

SUPPLIED BY OWNER

STAINLESS STEEL

STANDARD

SUSPENDED

TREAD, TOP

TELEPHONE

TEMPERED

TYPICAL

WITHOUT

WINDOW

WEIGHT

WATERPROOF

YARD DRAIN

WATER RESISTANT

WELDED WIRE MESH

WELDED WIRE FABRIC

WOOD

UTILITY

TOP & BOTTOM

TONGUE & GROOVE

UNIFORM BUILDING CODE

VINYL COMPOSITION TILE

UNLESS OTHERWISE NOTED

TEMPERED GLASS

INSTALLED BY CONTRACTOR

STRUCTURE, STRUCTURAL

SUPPLIED & INSTALLED BY OWNER

SERVICE SINK, SANITARY SEWER

SINGLE FAMILY RESIDENCE ADDITION THE BARNETT RESIDENCE

7530 86TH AVE. SE MERCER ISLAND, WASHINGTON 98040

LOCATION

MERCER ISLAND, WA 98040

10,658 S.F.

27'-1" (PROPOSED)

32'-6" (EXISTING)

9'-8" (EXISTING)

8'-8" (EXISTING)

R-3 (SINGLE FAMILY RES.) BUILDING CONSTRUCTION

09/09/2021

PROJECT TEAM

CLIENT: ALEX & BARRETT BARNETT 7530 86TH AVE SE MERCER ISLAND, WA 98040 TEL.: (206) 890-6262 CONTACT: BARRETT BARNETT

ARCHITECT: ARISE DESIGN LAB 10313 NE 125TH PL KIRKLAND, WA 98034 PH: (509) 710-2374 PM CONTÁCT: JOSH PETERSON EMAIL: BARNETTAB@HOTMAIL.COM Email: Josh@AriseDesignLab.com

STRUCTURAL: **B2 ENGINEERS** 15306 61ST PLACE NE KENMORE, WA 98028 (425) 318-0031 PM CONTACT: BASRI BASRI EMAIL: BASRI@B2ENGINEERS.COM

PROJECT DATA ALEX AND BARRETT BARNETT SITE ADDRESS: 7530 86TH AVE SE

LEGAL DESCRIPTION: MERCER ISLAND ESTATES #2 PLAT LOCK 20 PARCEL NUMBER: 545121-0200 JURISDICTION: CITY OF MERCER ISLAND CITY OF MERCER ISLAND WATER & SEWER DISTRICT: SECTION/TOWNSHIP/RANGE: SW-30-24-05 PROPERTY ZONING: R9.6

BUILDING SETBACKS: EAST - REAR: 25'-0" WEST - FRONT (SE 86TH AVE SE) 20'-0" 7'-6" NORTH - SIDE*:

(2 STORY GABLE) 7'-6" SOUTH - SIDE*: (2 STORY GABLE)

*SIDE = 17% OF LOT AREA: 18'-2" > 16'-2" @ AVERAGE LOT WIDTH (95x.17)

BUILDING HEIGHT PER R9.6 ZONING: 1ST FINISH FLOOR:

A.B.E. (SEE CALCULATIONS BELOW) 355.20 377.08 **EXISTING BUILDING HEIGHT:** PROPOSED ADDITION BUILDING HEIGHT: 367.75 MAXIMUM ALLOWABLE HEIGHT ABOVE A.B.E.: 386.875 (30'-0")

BUILDING HEIGHT NOTES:

REFER TO PLAN FOR SPOT ELEVATIONS AND BENCHMARK ELEVATION (#L). 2. REFER TO BUILDING ELEVATIONS FOR A.B.E. DATUM POINTS AND ROOF RIDGE ELEVATIONS

BUILDING CONSTRUCTION DATA OCCUPANCY TYPE

680.00 S.F. GARAGE (EXISTING): 1ST FLOOR (EXISTING): 1,370.00 S.F. 1,56<u>0.00 S.F.</u> 09/09/2021 2ND FLOOR (EXISTING): TOTAL FLOOR AREA: 3,610.00 S.F. ALLOWABLE GROSS FLOOR AREA: 4,263.20 S.F. (33.9%)

(ĹOT SLOPE <15%):

3,626.31 S.F./34.03%

4,263.20 S.F./40.00%

288.48 S.F./ 2.71%

_959.22 S.F./ 9.00%

288.48 S.F.

2480.70 S.F.

32.40 S.F.

1113.21 S.F.

LOT COVERAGE CALCULATIONS MAIN STRUCTURE ROOF AREA: ACCESSORY SHED ROOF AREA: **VEHICULAR USE:** TOTAL LOT COVERAGE: ALLOWABLE LOT COVERAGE

<u> HARDSCAPE CALCULATIONS:</u>

ALLOWABLE HARDSCAPE:

ROOM NAME ROOM NAME XXX ROOM NO. XXX S.F. ← ROOM AREA NEW DECK (<30" ABOVE GRADE): PL-19 FINISH SCHEDULE TOTAL HARDSCAPE:

WINDOW SCHEDULE

[01]← EQUIP. SCHEDULE CASEWORK DTL. NO.

SHEET NO. - WALL TYPE NO. # - - - INSULATION KEY -WALL TYPE LETTER

DATUM POINT B- WALL ORIENTATION +8'-0" A.F.F. CEILING HEIGHT

ACT CELLING

FINISH CEILING TYPE -SHEET THAT INTERIOR ELEV. IS SHOWN

MATCH LINE

SHEET KEY NOTE

LEGEND OF SYMBOLS

REVISION NO. (TITLE

DATE)

INDICATES REVISED

SHOWN

IS SHOWN

SHOWN

DETAIL NO. DESIGNATION

XXX.XXX SHEET THAT DETAIL IS

-BLDG. SECTION NO.

— WALL SECTION NO.

-INTERIOR ELEV. NO.

TRUE NORTH

-SHEET THAT SECTION

-SHEET THAT SECTION IS

BLOCK SHOWS REV.

DOOR SCHEDULE KEY (CORRESP. TO ROOM NO. WHERE DOOR OCCURS) DOOR SUFFIX

GRID DESIGNATION 1/4:12 ROOF SLOPE AND

DIRECTION KEY BREAK LINE SYMBOL

ENERGY CREDITS: <u>EFFICIENT FURNACE (3A)</u> TOTAL CREDITS:

**<500 S.F. OF NEW/REPLACED IMPERVIOUS SURFACE

WITH THE SCOPE OF WORK STATED IN THE BUILDING PERMIT.

NO SIGNIFICANT TREES SHALL BE REMOVE OR IMPACTED IN CONSTRUCTION

SHEET INDEX

ARCHITECTURAL COVER SHEET

IRC GENERAL CODE NOTES

DEMOLITION MAIN FLOOR PLAN MAIN FLOOR PLAN **ROOF PLAN ELEVATIONS** FRAMING DETAILS

WATERPROOFING & AIR BARRIER NOTES & DETAILS WINDOW SCHEDULE

STRUCTURAL

GENERAL NOTES & SPECIFICATIONS FRAMING PLANS FRAMING PLANS FRAMING DETAILS FRAMING DETAILS

SCOPE OF WORK

INTERIOR REMODEL OF KITCHEN/DINING ROOM AND NEW 406 S.F. COVERED OUTDOOR AREA. REMOVAL OF EXISTING BAY WINDOW AND INTERIOR DEMOLITION OF EXISTING KITCHEN TO ENLARGE DINING ROOM/SEATING AREA. PROPOSED DECK IS <30" ABOVE GRADE, NO PERMIT REQUIRED, INCLUDED FOR LOT COVERAGE REQUIREMENTS ONLY

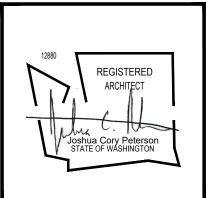
09/09/2021

DESIGN CODES

INTERNATIONAL RESIDENTIAL CODE WITH WASHINGTON STATE AND CITY OF MERCER ISLAND AMENDMENTS INTERNATIONAL FIRE CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL FUEL GAS CODE UNIFORM PLUMBING CODE NATIONAL ELECTRIC CODE WASHINGTON STATE ENERGY CODE

MERCER ISLAND MUNICIPAL CODE

RIS



REVISIONS NO. DATE 09/09/2021 CONST. REV ISSUE DATES DESIGN APPROVAL: PERMIT SUBMITTAL:12/09/202 PERMIT RECEIVED: 07/26/202 BID DOCS: CONSTR. DOCS:

24"x36" SCALE: AS NOTE PLOT DATE: 09/09/202 A20-01 A0. CAD FILE: A20-01 JOB NUMBER CHECKED: DRAWN: STATUS: UNDER CONSTRUCTION

COVER SHEET AND VICINITY MAP

<u>IABITABLE SPACE (IRC SECTION R202):</u> A SPACE IN A BUILDING FOR LIVING, SLEEPING, EATING OR COOKING. BATHROOMS, TOILET ROOMS, CLOSETS, HALLS, STORAGE OR UTILITY SPACES AND SIMILAR AREAS ARE NOT CONSIDERED HABITABLE SPACES.

<u>LIGHT, VENTILATION AND HEATING IN HABITABLE ROOMS (SECTION R303)</u>: ALL HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

- FXCFPTIONS THE GLAZED AREAS NEED NOT BE OPENABLE WHERE THE OPENING IS NOT REQUIRED BY SECTION R310 AND AN APPROVED MECHANICAL VENTILATION SYSTEM IS PROVIDED CAPABLE OF PRODUCING 0.35 AIR CHANGE PER HOUR IN THE ROOM OR A WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM IS INSTALLED CAPABLE OF SUPPLYING OUTDOOR VENTILATION AIR OF 15 CUBIC FEET PER MINUTE (CFM) PER OCCUPANT COMPUTED ON THE BASIS OF TWO OCCUPANTS FOR THE FIRST BEDROOM AND ONE OCCUPANT FOR EACH ADDITIONAL
- THE GLAZED AREAS NEED NOT BE PROVIDED IN ROOMS WHERE EXCEPTION 1 ABOVE IS SATISFIED AND ARTIFICIAL LIGHT IS PROVIDED CAPABLE OF PRODUCING AN AVERAGE ILLUMINATION OF 6 FOOTCANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL IGHT, VENTILATION AND HEATING IN ADJOINING ROOMS (SECTION R303.2): FOR THE PURPOSE OF DETERMINING LIGHT AND VENTILATION REQUIREMENTS, ANY ROOM SHALL BE CONSIDERED AS A PORTION OF AN ADJOINING ROOM WHEN AT LEAST ONE-HALF OF THE AREA OF THE COMMON WALL IS OPEN AND UNOBSTRUCTED AND PROVIDES AN OPENING OF NOT LESS THAN ONE-TENTH OF THE FLOOR AREA OF THE INTERIOR ROOM BUT NOT LESS THAN 25 SQUARE FEET.
- EXCEPTION: OPENINGS REQUIRED FOR LIGHT AND/OR VENTILATION SHALL BE PERMITTED TO OPEN INTO A THERMALLY ISOLATED SUNROOM ADDITION OR PATIO COVER, PROVIDED THAT THERE IS AN OPENABLE AREA BETWEEN THE ADJOINING ROOM AND THE SUNROOM ADDITION OR PATIO COVER OF NOT LESS THAN ONE-TENTH OF THE FLOOR AREA OF THE INTERIOR ROOM BUT NOT LESS THAN 20 SQUARE FEET. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE BASED UPON THE TOTAL FLOOR AREA BEING
- <u>GHT, VENTILATION AND HEATING IN BATHROOMS (SECTION R303.3)</u>: BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET, ONE—HALF OF WHICH MUST BE OPENABLE. EXCEPTION: THE GLAZED AREAS SHALL NOT BE REQUIRED WHERE ARTIFICIAL LIGHT AND A MECHANICAL VENTILATION SYSTEM ARE PROVIDED. THE MINIMUM VENTILATION RATES SHALL BE 50 CFM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE. <u>CEILING HEIGHT (SECTION R305):</u> HABITABLE SPACE, HALLWAYS, CORRIDORS, BATHROOMS, TOILET ROOMS, LAUNDRY ROOMS AND BASEMENTS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET. THE REQUIRED
- FOR ROOMS WITH SLOPED CEILINGS, AT LEAST 50 PERCENT OF THE REQUIRED AREA OF A ROOM MUST HAVE A CEILING HEIGHT OF AT LEAST 7 FEET AND NO PORTION OF THE REQUIRED FLOOR AREA MAY HAVE A CEILING HEIGHT OF LESS THAN 5 FEET

HEIGHT SHALL BE MEASURED FROM THE FINISH FLOOR TO THE LOWEST PROJECTION FROM THE CEILING.

- BATHROOMS SHALL HAVE A MINIMUM CEILING HEIGHT OF 6 FEET 8 INCHES AT THE CENTER OF THE FRONT CLEARANCE AREA FOR FIXTURES AS SHOWN IN FIGURE R307.1. THE CEILING HEIGHT ABOVE FIXTURES SHALL BE SUCH THAT THE FIXTURE IS CAPABLE OF BEING USED FOR ITS INTENDED PURPOSE. A SHOWER OR TUB EQUIPPED WITH A SHOWERHEAD SHALL HAVE A MINIMUM CEILING HEIGHT OF 6 FEET 8 INCHES ABOVE A MINIMUM AREA 30 INCHES BY 30 INCHES AT THE SHOWERHEAD
- BASEMENTS: PORTIONS OF BASEMENTS THAT DO NOT CONTAIN HABITABLE SPACE, HALLWAYS, BATHROOMS, TOILET ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 6 FEET 8 INCHES.
- BEAMS, GIRDERS, DUCTS, OR OTHER OBSTRUCTIONS MAY PROJECT TO WITHIN 6 FEET 4 INCHES OF THE
- <u>OILET SPACES (SECTION R307):</u> WATER CLOSET COMPARTMENTS ARE TO BE A MINIMUM 30 INCHES WIDE WITH A MINIMUM OF 21 CLEAR SPACE IN FRONT OF THE FIXTURE <u>BATHTUB AND SHOWER SPACES (SECTION R307)</u>: BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. <u>CLOTHES DRYERS EXHAUST (SECTION M1502):</u> 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 MANUFACTURER'S INSTALLATION INSTRUCTIONS. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION. EXHAUST DUCTS SHALL NOT BE JOINED WITH SCREWS OR SIMILAR FASTENERS THAT PROTRUDE INTO THE INSIDE OF THE DUCT.
- EXHAUST DUCTS SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. EXHAUST DUCTS SHALL BE CONSTRUCTED OF MINIMUM 4 INCHES NOMINAL DIAMETER AND 0.016-INCH-THICK RIGID METAL DUCTS, HAVING SMOOTH INTERIOR SURFACES WITH JOINTS RUNNING IN THE DIRECTION OF AIR FLOW. FLEXIBLE TRANSITION DUCTS USED TO CONNECT THE DRYER TO THE EXHAUST DUCT SYSTEM SHALL BE LIMITED TO A SINGLE LENGTH THAT IS LISTED AND LABELED IN ACCORDANCE WITH UL 2158A. TRANSITION DUCTS SHALL BE A MAXIMUM OF 8 FEET IN LENGTH. TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION.
- EXCEPTION: THIS SECTION SHALL NOT APPLY TO LISTED AND LABELED CONDENSING (DUCTLESS) CLOTHES CLOTHES DRYER LENGTH LIMITATION (SECTION M1502): THE MAXIMUM LENGTH OF A CLOTHES DRYER EXHAUST

DUCT SHALL BE 35 FEET FROM THE DRYER CONNECTION TO THE OUTLET TERMINAL. WHERE FITTINGS ARE USED. THE MAXIMUM LENGTH OF THE EXHAUST DUCT SHALL BE REDUCED IN ACCORDANCE WITH IRC TABLE M1502.4.4.1. ALTERNATELY, THE SIZE AND MAXIMUM LENGTH OF THE EXHAUST DUCT SHALL BE DETERMINED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE CODE OFFICIAL SHALL BE PROVIDED WITH A COPY OF THE INSTALLATION INSTRUCTIONS FOR THE MAKE AND MODEL OF THE DRYER AT THE CONCEALMENT INSPECTION. RANGE HOODS (SECTION M1503): RANGE HOODS SHALL DISCHARGE TO THE OUTDOORS THROUGH A SINGLE-WALL DUCT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AIR-TIGHT, SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER, AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS. DUCTS OR WHEN ONE OR MORE SLEEPING ROOMS ARE ADDED OR CREATED IN EXISTING DWELLINGS, THE INDIVIDUAL SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAWL SPACE OR AREAS INSIDE THE BUILDING. EXCEPTION: WHERE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND WHERE MECHANICAL OR NATURAL VENTILATION IS OTHERWISE PROVIDED, LISTED AND LABELED DUCTLESS RANGE HOODS SHALL NOT BE REQUIRED TO DISCHARGE TO THE OUTDOORS.

STAIRWAYS (SECTION R311.7)

<u>UNDER STAIR PROTECTION (SECTION 302.7)</u>: ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2-INCH GYPSUM BOARD. WIDTH (R311.7.1): STAIRWAYS SHALL NOT BE LESS THAN 36 INCHES IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4.5 INCHES ON EITHER SIDE OF THE STAIRWAY AND THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS AND LANDINGS, SHALL NOT BE LESS THAN 31-1/2 INCHES 1. SMOKE ALARMS SHALL BE PERMITTED TO BE BATTERY OPERATED WHEN INSTALLED IN BUILDINGS WITHOUT WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27 INCHES WHERE HANDRAILS ARE PROVIDED ON BOTH

EXCEPTION: THE WIDTH OF SPIRAL STAIRWAYS SHALL BE IN ACCORDANCE WITH SECTION R311.7.10.1. <u>HEADROOM:</u> THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6 FEET 8 INCHES MEASURED VERTICALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM ON THAT PORTION OF THE STAIRWAY.

FLOOR OPENING THROUGH WHICH THE STAIR PASSES, THE FLOOR OPENING SHALL BE ALLOWED TO PROJECT HORIZONTALLY INTO THE REQUIRED HEADROOM A MAXIMUM OF 4-3/4 INCHES <u>WALKLINE:</u> THE WALKLINE ACROSS WINDER TREADS SHALL BE CONCENTRIC TO THE CURVED DIRECTION OF TRAVEL HROUGH THE TURN AND LOCATED 12 INCHES FROM THE SIDE WHERE THE WINDERS ARE NARROWER. THE 12-INCH DIMENSION SHALL BE MEASURED FROM THE WIDEST POINT OF THE CLEAR STAIR WIDTH AT THE WALKING SURFACE

EXCEPTION: WHERE THE NOSINGS OF TREADS AT THE SIDE OF A FLIGHT EXTEND UNDER THE EDGE OF A

OF THE WINDER. IF WINDERS ARE ADJACENT WITHIN THE FLIGHT, THE POINT OF THE WIDEST CLEAR STAIR WIDTH OF THE ADJACENT WINDERS SHALL BE USED. <u>RISER HEIGHT:</u> THE MAXIMUM RISER HEIGHT SHALL BE 7-3/4 INCHES. THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT R315.1

OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. TREAD DEPTH: THE MINIMUM TREAD DEPTH SHALL BE 10 INCHES. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A INSTRUCTIONS. RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. CONSISTENTLY SHAPED WINDERS AT THEWALKLINE SHALL BE ALLOWED WITHIN THE SAME FLIGHT OF STAIRS AS RECTANGULAR TREADS AND DO NOT HAVE TO BE WITHIN 3/8 INCH OF THE RECTANGULAR TREAD DEPTH.

<u>WINDER TREADS:</u> SHALL HAVE A MINIMUM TREAD DEPTH OF 10 INCHES MEASURED BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AT THE INTERSECTIONS WITH THE WALKLINE. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6 INCHES AT ANY POINT WITHIN THE CLEAR WIDTH OF THE STAIR. WITHIN ANY FLIGHT OF STAIRS, THE LARGEST WINDER TREAD DEPTH AT THE WALKLINE SHALL NOT EXCEED THE SMALLEST WINDER TREAD BY MORE THAN 3/8 INCH.

LESS THAN 3/4 INCH BUT NOT MORE THAN 1-1/4 INCHES SHALL BE PROVIDED ON STAIRWAYS WITH SOLID risers. The greatest nosing projection shall not exceed the smallest nosing projection by more THAN 3/8 INCH BETWEEN TWO STORIES, INCLUDING THE NOSING AT THE LEVEL OF FLOORS AND LANDINGS. BEVELING OF NOSINGS SHALL NOT EXCEED 1/2 INCH. RISERS SHALL BE VERTICAL OR SLOPED UNDER THE TREAD ABOVE FROM THE UNDERSIDE OF THE NOSING ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES FROM THE VERTICAL. OPEN RISERS ARE PERMITTED, PROVIDED THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE

PASSAGE OF A 4-INCH DIAMETER SPHERE. EXCEPTIONS: A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11 INCHES.

HANDRAILS:

HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS. HEIGHT: HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES.

THE USE OF A VOLUTE. TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD. WHEN HANDRAIL FITTINGS OR BENDINGS ARE USED TO PROVIDE CONTINUOUS TRANSITION BETWEEN FLIGHTS. THE TRANSITION FROM HANDRAIL TO GUARDRAIL, OR USED AT THE START OF A FLIGHT, THE HANDRAIL HEIGHT AT THE FITTINGS OR BENDINGS SHALL BE PERMITTED TO EXCEED THE MAXIMUM HEIGHT.

POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE ROOF AND ANY OTHER BUILDING ELEMENT THAT ENCLOSE CONDITIONED SPACES. FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCH BETWEEN THE WALL

HANDRAILS SHALL BE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT THE TURN. THE USE OF A VOLUTE, TURNOUT, STARTING EASING OR STARTING NEWEL SHALL BE ALLOWED OVER THE

<u>GRIP-SIZE:</u> ALL REQUIRED HANDRAILS SHALL BE OF ONE OF THE FOLLOWING TYPES OR PROVIDE EQUIVALENT 1. TYPE I. HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST

1-1/4 INCHES AND NOT GREATER THAN 2 INCHES. IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6-1/4 INCHES WITH A MAXIMUM CROSS SECTION OF DIMENSION OF 2-1/4 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH. 2. TYPE II. HANDRAILS WITH A PERIMETER GREATER THAN 6-1/4 INCHES SHALL HAVE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER

RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4 INCH MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16 INCH WITHIN 7/8 INCH BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE

FOR AT LEAST 3/8 INCH TO A LEVEL THAT IS NOT LESS THAN 1-3/4 INCHES BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1-1/4 INCHES TO A MAXIMUM OF 2-3/4 INCHES. EDGES

SHALL HAVE A MINIMUM RADIUS OF 0.01 INCH.

GUARDS (SECTION R312) GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS AND LANDINGS, THAT ARE LOCATED MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD HEIGHT: REQUIRED GUARDS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES OR

. GUARDS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT NOT LESS THAN 34 INCHES MEASURED

SURFACE, ADJACENT FIXED SEATING OR THE LINE CONNECTING THE LEADING EDGES OF THE TREADS.

VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS 2. WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF PARTS; AND ADJUSTMENTS THE GUARD SHALL NOT BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS.

PENING LIMITATIONS: REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT WHICH ALLOW PASSAGE OF A SPHERE 4 INCHES IN DIAMETER.

- THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF A STAIR, FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD. SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER. 2. GUARDS ON THE OPEN SIDES OF STAIRS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE
- 4-3/8 INCHES IN DIAMETER. <u>WINDOW SILLS (SECTION R312.2.1)</u>: IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW. THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4-INCH DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR.
- WINDOWS WHOSE OPENINGS WILL NOT ALLOW A 4-INCH DIAMETER SPHERE TO PASS THROUGH THE OPENING WHEN THE OPENING IS IN ITS LARGEST OPENED POSITION.

OPENINGS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 209 . WINDOWS THAT ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.2 SMOKE ALARMS (SECTION R314) SMOKE DETECTION AND NOTIFICATION. ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND

INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72 SMOKE DETECTION SYSTEMS: HOUSEHOLD FIRE ALARM SYSTEMS INSTALLED IN ACCORDANCE WITH NFPA 72 THA INCLUDE SMOKE ALARMS. OR A COMBINATION OF SMOKE DETECTOR AND AUDIBLE NOTIFICATION DEVICE INSTALLED AS REQUIRED BY THIS SECTION FOR SMOKE ALARMS, SHALL BE PERMITTED. THE HOUSEHOLD FIRE ALARM SYSTEM SHALL PROVIDE THE SAME LEVEL OF SMOKE DETECTION AND ALARM AS REQUIRED BY THIS SECTION FOR SMOKE ALARMS. WHERE A HOUSEHOLD FIRE WARNING SYSTEM IS INSTALLED USING A COMBINATION OF SMOKE DETECTOR AND AUDIBLE NOTIFICATION DEVICE(S), IT SHALL BECOME A PERMANENT FIXTURE OF THE OCCUPANCY AND OWNED BY THE HOMEOWNER. THE SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION AND BE

MAINTAINED IN ACCORDANCE WITH NFPA72. EXCEPTION: WHERE SMOKE ALARMS ARE PROVIDED MEETING THE REQUIREMENTS OF SECTION R314.4. LOCATION: SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

IN EACH SLEEPING ROOM. 2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

3. 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. A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.

ALTERATIONS, REPAIRS AND ADDITIONS: WHEN ALTERATIONS, REPAIRS OR ADDITIONS REQUIRING A PERMIT OCCUR, DWELLING UNIT SHALL BE EQUIPPED WITH SMOKE ALARMS LOCATED AS REQUIRED FOR NEW DWELLINGS.

EXCEPTIONS: 1. WORK INVOLVING THE EXTERIOR SURFACES OF DWELLINGS, SUCH AS THE REPLACEMENT OF ROOFING OR SIDING, OR THE ADDITION OR REPLACEMENT OF WINDOWS OR DOORS, OR THE ADDITION OF A PORCH OR DECK, ARE EXEMPT FROM THE REQUIREMENTS OF THIS SECTION. 2. INSTALLATION, ALTERATION OR REPAIRS OF PLUMBING OR MECHANICAL SYSTEMS ARE EXEMPT FROM THE

REQUIREMENTS OF THIS SECTION. POWER SOURCE: SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH FOUNDATIONS AND BUILDING LOCATION WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. SMOKE ALARMS SHALL BE INTERCONNECTED.

COMMERCIAL POWER . INTERCONNECTION AND HARD—WIRING OF SMOKE ALARMS IN EXISTING AREAS SHALL NOT BE REQUIRED WHERE THE ALTERATIONS OR REPAIRS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALL OR CEILING FINISHES EXPOSING THE STRUCTURE, UNLESS THERE IS AN ATTIC, CRAWL SPACE OR BASEMENT AVAILABLE WHICH COULD PROVIDE ACCESS FOR HARD WIRING AND INTERCONNECTION WITHOUT THE REMOVAL OF INTERIOR

CARBON MONOXIDE ALARMS (SECTION R315) FOR NEW CONSTRUCTION. AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.

WHERE REQUIRED IN EXISTING DWELLINGS: WHERE WORK REQUIRING A PERMIT OCCURS IN EXISTING DWELLINGS THAT HAVE ATTACHED GARAGES OR IN EXISTING DWELLINGS WITHIN WHICH FUEL-FIRED APPLIANCES EXIST, CARBON MONOXIDE ALARMS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION

ALARM REQUIREMENTS: SINGLE-STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE AND THE MANUFACTURER'S INSTALLATION

INSULATION BUILDINGS SHALL COMPLY WITH THE BUILDING THERMAL ENVELOPE INSULATION REQUIREMENTS SET FORTH IN IRC PROVISIONS OF SECTION R403 OR IN ACCORDANCE WITH ACI 332. CHAPTER N1102 OR PER THE REQUIREMENTS OF THE GOVERNING JURISDICTION, AS APPLICABLE.

FOAM PLASTIC INSULATION SHALL COMPLY WITH THE REQUIREMENTS IN IRC SECTION R316.

INSULATION MATERIALS. INCLUDING FACINGS. SUCH AS VAPOR RETARDERS AND VAPOR-PERMEABLE MEMBRANES INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES AND NOSINGS: THE RADIUS OF CURVATURE AT THE NOSING SHALL BE NO GREATER THAN 9/16 INCH. A NOSING NOT ATTICS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

- FXCFPTIONS: WHEN SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES, THE FLAME SPREAD INDEX AND SMOKE-DEVELOPED INDEX LIMITATIONS DO NOT APPLY TO THE FACINGS, PROVIDED THAT THE FACING IS
- INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH. CELLULOSE LOOSE-FILL INSULATION, WHICH IS NOT SPRAY APPLIED, COMPLYING WITH THE REQUIREMENTS OF SECTION R302.10.3, SHALL ONLY BE REQUIRED TO MEET THE SMOKE-DEVELOPED INDEX OF NOT MORE THAN

CHIMNEYS AND FIREPLACES ALL MASONRY AND FACTORY BUILT FIREPLACES, CHIMNEYS AND MASONRY HEATERS SHALL COMPLY WITH THE

PROVISIONS OF IRC CHAPTERS 10, 18, AND 24.

HEATING AND COOLING EQUIPMENT (CHAPTER 14) REQUIRED HEATING (SECTION R303.9): WHEN THE WINTER DESIGN TEMPERATURE IN TABLE R301.2(1) IS BELOW 60 FAILURES. EXCEPT AS PROVIDED IN SECTION R403.1.7.4 AND FIGURE R403.1.7. DEGREES F, EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68 DEGREES F AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS AT THE DESIGN TEMPERATURE. THE INSTALLATION OF ONE OR MORE PORTABLE SPACE HEATERS SHALL NOT BE USED TO ACHIEVE COMPLIANCE WITH THIS SECTION.

CONTINUITY: HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A DEFINITION: THE BUILDING THERMAL ENVELOPE IS DEFINED AS: THE BASEMENT WALLS, EXTERIOR WALLS, FLOOR, DAMPPROOFING AND VENTILATION

AIR SUPPLY: SOLID-FUEL-BURNING APPLIANCES SHALL BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS. OIL-FIRED APPLIANCES SHALL BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH NFPA 31. THE METHODS OF PROVIDING COMBUSTION AIR IN THIS CHAPTER TO APPLY TO FIREPLACES, FIREPLACE STOVES AND DIRECT-VENT APPLIANCES. THE REQUIREMENTS FOR COMBUSTION AND DILUTION AIR FOR GAS-FIRED APPLIANCES SHALL BE IN ACCORDANCE WITH IRC CHAPTER 24.

DUCT WORK, LOCATION OF APPLIANCES, SOURCE OF COMBUSTION AIR, ETC. SHALL COMPLY WITH IRC CHAPTERS

LABEL INFORMATION: A PERMANENT FACTORY—APPLIED NAMEPLATE(S) SHALL BE AFFIXED TO APPLIANCES ON WHICH SHALL APPEAR, IN LEGIBLE LETTERING, THE MANUFACTURER'S NAME OR TRADEMARK, THE MODEL NUMBER, SERIAL NUMBER, AND THE SEAL OR MARK OF THE TESTING AGENCY PER IRC SECTION M1303.1 PROHIBITED SOURCES: COMBUSTION AIR DUCTS AND OPENINGS SHALL NOT CONNECT APPLIANCE ENCLOSURES WITH SPACE IN WHICH THE OPERATION OF A FAN MAY ADVERSELY AFFECT THE FLOW OF COMBUSTION AIR. COMBUSTION AIR SHALL NOT BE OBTAINED FROM AN AREA IN WHICH FLAMMABLE VAPORS PRESENT A HAZARD. APPLIANCES SHALL NOT BE LOCATED IN SLEEPING ROOMS, BATHROOMS, TOILET ROOMS, STORAGE CLOSETS OR SURGICAL ROOMS, OR IN A SPACE THAT OPENS ONLY INTO SUCH ROOMS OR SPACES, EXCEPT WHERE THE INSTALLATION COMPLIES WITH ONE OF THE EXCEPTIONS LISTED IN IRC SECTION G2406.2

APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT INSPECTED, SERVICED, REPAIRED OR REPLACESD. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. INSTALLATION OF

APPLIANCES IN ROOMS: APPLIANCES INSTALLED IN A COMPARTMENT, ALCOVE, BASEMENT OR SIMILAR SPACE SHALL BE ACCESSED BY AN OPENING OR DOOR AND AN UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 24 INCHES WIDE AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE IN THE SPACE, PROVIDED THAT A LEVEL SERVICE SPACE OF NOT LESS THAN 30 INCHES DEEP AND THE HEIGHT OF THE APPLIANCE, BUT NOT LESS THAN 30 INCHES, IS PRESENT AT THE FRONT OR SERVICE SIDE OF THE APPLIANCE WITH THE DOOR

ANDINGS, SHALL BE NOT LESS THAN 36 INCHES HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING ACCESS (SECTION M1401.2): HEATING AND COOLING EQUIPMENT AND APPLIANCES SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT TO PERMIT MAINTENANCE, SERVICING AND REPLACEMENT. CLEARANCES SHALL BE MAINTAINED TO PERMIT CLEANING OF HEATING AND COOLING SURFACES; REPLACEMENT OF FILTERS, LOWERS, MOTORS, CONTROLS AND VENT CONNECTIONS; LUBRICATION OF MOVING

EXTERIOR INSTALLATIONS (SECTION M1401.4): EQUIPMENT INSTALLED OUTDOORS SHALL BE LISTED AND LABELED FOR OUTDOOR INSTALLATION. SUPPORTS AND FOUNDATIONS SHALL PREVENT EXCESSIVE VIBRATION, SETTLEMENT OR WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. MOVEMENT OF THE EQUIPMENT. SUPPORTS AND FOUNDATIONS SHALL BE LEVEL AND CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS

ANCHORAGE OF APPLIANCES (SECTION M1307.2): APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED OR ANCHORED IN AN APPROVED MANNER. IN SEISMIC DESIGN CATEGORIES D1 AND D2. WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF THE APPLIANCE'S VERTICAL DIMENSIONS. AT THE LOWER POINT, THE STRAPPING SHALL MAINTAIN A MINIMUM DISTANCE 4. EXTRUDED LOAD—BEARING BRICK VENTS. OF 4 INCHES ABOVE THE CONTROLS.

<u>ELEVATION OF IGNITION SOURCE (SECTION M1307.3)</u>: APPLIANCES HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE FLOOR IN GARAGES. FOR THE PURPOSE OF THIS SECTION, ROOMS OR SPACES THAT ARE NOT PART OF THE LIVING SPACE OF A DWELLING UNIT AND THAT COMMUNICATE WITH A PRIVATE GARAGE THROUGH OPENINGS SHALL BE CONSIDERED TO R406.2. FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS LOCATED BELOW BE PART OF THE GARAGE.

PROTECTION FROM IMPACT: APPLIANCES SHALL NOT BE INSTALLED IN A LOCATION SUBJECT TO VEHICLE DAMAGE EXCEPT WHERE PROTECTED BY APPROVED BARRIERS.

APPLIANCES INSTALLED IN ATTICS SHALL CONFORM TO IRC SECTION M1305.1 APPLIANCES INSTALLED IN CRAWL SPACES SHALL CONFORM TO IRC SECTION M1305.1.4. DUCT PENETRATION (SECTION R302.5.2): DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE.

<u>VENTING REQUIRED (SECTION M1801.1)</u>: FUEL-BURNING APPLIANCES SHALL BE VENTED TO THE OUTSIDE IN ACCORDANCE WITH THEIR LISTING AND LABEL AND MANUFACTURER'S INSTALLATION INSTRUCTIONS EXCEPT APPLIANCES LISTED AND LABELED FOR UNVENTED USE. VENTING SYSTEMS SHALL CONSIST OF APPROVED CHIMNEYS OR VENTS, OR VENTING ASSEMBLIES THAT ARE INTEGRAL PARTS OF LABELED APPLIANCES. GAS-FIRED APPLIANCES EXTERIOR WALL COVERING (SECTION R703) SHALL BE VENTED IN ACCORDANCE WITH CHAPTER 24. <u>DUCT DESIGN (SECTION 1601.1):</u> DUCT SYSTEMS SERVING HEATING, COOLING AND VENTILATION EQUIPMENT SHALL BE FABRICATED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION AND ACCA MANUAL D OR OTHER

ABOVE-GROUND DUCT SYSTEMS SHALL CONFORM TO THE PROVISIONS OF IRC SECTION M1601.1.1. AND TABLE

JOINTS OF DUCT SYSTEMS SHALL BE MADE SUBSTANTIALLY AIRTIGHT BY MEANS OF TAPES, MASTICS, LIQUID SEALANTS, GASKETING OR OTHER APPROVED CLOSURE SYSTEMS PER IRC SECTION M1601.4.1.

SWIMMING POOLS. WADING POOLS. DECORATIVE POOLS, FOUNTAINS, HOT TUBS AND SPAS, AND HYDROMASSAGE BATHTUBS, WHETHER PERMANENTLY INSTALLED OR STORABLE, SHALL CONFORM TO IRC CHAPTER 42 WITH RESPECT TO CONSTRUCTION AND INSTALLATION OF METALLIC AUXILIARY EQUIPMENT, SUCH AS PUMPS, FILTERS AND SIMILAR

SWIMMING POOLS, SPAS AND HOT TUBS INSTALLED IN OR ON THE LOT OF A ONE- OR TWO-FAMILY DWELLING SHALL CONFORM TO THE PROVISIONS OF IRC APPENDIX G.

REQUIREMENTS (R401.2): FOUNDATION CONSTRUCTION SHALL BE CAPABLE OF ACCOMMODATING ALL LOADS ACCORDING TO SECTION R301 AND OF TRANSMITTING THE RESULTING LOADS TO THE SUPPORTING SOIL. FILL SOILS WOOD WALL FRAMING (SECTION R602) THAT SUPPORT FOOTINGS AND FOUNDATIONS SHALL BE DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. GRAVEL FILL USED AS FOOTINGS FOR WOOD AND PRECAST CONCRETE

FOUNDATIONS SHALL COMPLY WITH SECTION R403. <u>DRAINAGE</u> (SECTION 401.3): SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET

EXCEPTION: WHERE LOT LINES, WALLS, SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT 6 INCHES OF FALL WITHIN 10 FEET, DRAINS OR SWALES SHALL BE CONSTRUCTED TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING. SOIL TESTS (SECTION 401.4): WHERE QUANTIFIABLE DATA CREATED BY ACCEPTED SOIL SCIENCE METHODOLOGIES

INDICATE EXPANSIVE, COMPRESSIBLE, SHIFTING OR OTHER QUESTIONABLE SOIL CHARACTERISTICS ARE LIKELY TO BE PRESENT, THE BUILDING OFFICIAL SHALL DETERMINE WHETHER TO REQUIRE A SOIL TEST TO DETERMINE THE SOIL'S CHARACTERISTICS AT A PARTICULAR LOCATION. THIS TEST SHALL BE DONE BY AN APPROVED AGENCY USING AN APPROVED METHOD. <u>GEOTECHNICAL EVALUATION:</u> IN LIEU OF A COMPLETE GEOTECHNICAL EVALUATION, THE LOAD-BEARING VALUES IN

TABLE R401.4.1 SHALL BE ASSUMED. FOOTINGS (SECTION 403.1): ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS SOLID OR FULLY GROUTED MASONRY OR CONCRETE FOOTINGS, CRUSHED STONE FOOTINGS, WOOD FOUNDATIONS, OR OTHER APPROVED STRUCTURAL SYSTEMS WHICH SHALL BE OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS ACCORDING TO SECTION R301 AND TO TRANSMIT THE RESULTING LOADS TO THE SOIL WITHIN THE LIMITATIONS AS DETERMINED FROM THE CHARACTER OF THE SOIL. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL

SOILS OR ENGINEERED FILL. CONCRETE FOOTING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM SIZE (SECTION 403.1.1): MINIMUM SIZES FOR CONCRETE AND MASONRY FOOTINGS SHALL BE AS SET FORTH IN TABLE R403.1 AND FIGURE R403.1(1). THE FOOTING WIDTH SHALL BE BASED ON THE LOAD-BEARING VALUE OF THE SOIL IN ACCORDANCE WITH TABLE R401.4.1. SPREAD FOOTINGS SHALL BE AT LEAST 6 INCHES IN THICKNESS, T. FOOTING PROJECTIONS, P, SHALL BE AT LEAST 2 INCHES AND SHALL NOT EXCEED THE THICKNESS 5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19. OF THE FOOTING. THE SIZE OF FOOTINGS SUPPORTING PIERS AND COLUMNS SHALL BE BASED ON THE TRIBUTARY

6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING UNIT LOAD AND ALLOWABLE SOIL PRESSURE IN ACCORDANCE WITH TABLE R401.4.1. MINIMUM DEPTH: ALL EXTERIOR FOOTINGS SHALL BE PLACED AT LEAST 12 INCHES BELOW THE UNDISTURBED

GROUND. WHERE APPLICABLE, THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTIONS R403.1.4.1. REFER TO LOCAL REQUIREMENTS WITH RESPECT TO MINIMUM REQUIRED FOOTING DEPTH AND STRUCTURAL ENGINEER'S DRAWINGS AND GEOTECHNICAL REQUIREMENTS.

CONCRETE AND MASONRY FOUNDATION WALLS SHALL EXTEND ABOVE THE FINISHED GRADE ADJACENT TO THE FOUNDATION AT ALL POINTS A MINIMUM OF 4 INCHES WHERE MASONRY VENEER IS USED AND A MINIMUM OF 6 INCHES ELSEWHERE.

OR ADJACENT TO SLOPES STEEPER THAN 1 UNIT VERTICAL IN 3 UNITS HORIZONTAL (33.3-PERCENT SLOPE) SHALL CONFORM TO SECTIONS R403.1.7.1 THROUGH R403.1.7.4. BUILDING CLEARANCES FROM ASCENDING SLOPES: IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FOUNDATION ANCHORAGE: REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR SILL PLATE AND BOTTOM TRACK TO FOUNDATION ANCHORAGE REQUIREMENTS.

LOCATION REQUIRED: PROTECTION OF WOOD AND WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN 1/150 OF THE AREA OF THE VENTED SPACE. THE FOLLOWING LOCATIONS BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE—TREATED IN ACCORDANCE WITH AWPA U1 FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END

PROVIDED ONE OR MORE OF THE FOLLOWING CONDITIONS ARE MET:

USE. PRESERVATIVES SHALL BE LISTED IN SECTION 4 OF AWPA U1. 1. WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WHEN CLOSER THAN 18 INCHES OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED

AREA LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.

2. ALL WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM THE EXPOSED GROUND. 3. SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER.

4. THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 1/2 INCH ON TOPS, SIDES AND ENDS. 5. WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF

LESS THAN 6 INCHES FROM THE GROUND OR LESS THAN 2 INCHES MEASURED VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS, AND SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER. 6. WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO

BY AN IMPERVIOUS MOISTURE BARRIEF WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR

RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS. CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING UNDER-FLOOR SPACE ACCESS (SECTION R408.4): ACCESS SHALL BE PROVIDED TO ALL UNDER-FLOOR SPACES. MINIMUM OF 22 INCHES WIDE BY 30 INCHES HIGH. WHEN THE ACCESS IS LOCATED IN A CEILING, MINIMUM ACCESS OPENINGS THROUGH THE FLOOR SHALL BE A MINIMUM OF 18 INCHES BY 24 INCHES. OPENINGS THROUGH UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30 INCHES AT SOME POINT ABOVE THE ACCESS A PERIMETER WALL SHALL BE 16 INCHES BY 24 INCHES. WHEN ANY PORTION OF THE THROUGH WALL ACCESS IS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS. SEE SECTION M1305.1.3 FOR ACCESS ROOM HEATERS SHALL BE PERMITTED WITH AT LEAST AN 18 INCH WORKING SPACE. A PLATFORM SHALL NOT BE BELOW GRADE, AN AREAWAY OF NOT LESS THAN 16 INCHES BY 24 INCHES SHALL BE PROVIDED. THE BOTTOM OF REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED IN ATTICS. THE AREAWAY SHALL BE BELOW THE THRESHOLD OF THE ACCESS OPENING. THROUGH-WALL ACCESS OPENINGS SHALL NOT BE LOCATED UNDER A DOOR TO THE RESIDENCE.

> <u>APPLIANCES UNDER FLOORS (SECTION 1305.1.4)</u>: UNDER-FLOOR SPACES CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO REMOVE THE LARGEST APPLIANCE, BUT NOT
> SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. TRUSS DESIGN DRAWINGS LESS THAN 30 INCHES HIGH AND 22 INCHES WIDE, NOR MORE THAN 20 FEET LONG WHEN MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. <u>VENTILATION (SECTION R408.1)</u>: THE UNDER-FLOOR SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING (EXCEPT SPACE OCCUPIED BY A BASEMENT) SHALL HAVE VENTILATION

OPENINGS THROUGH FOUNDATION WALLS OR EXTERIOR WALLS. THE MINIMUM NET AREA OF VENTILATION OPENINGS DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. THE SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR SPACE AREA, UNLESS TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL WHERE REQUIRED BY THE THE GROUND SURFACE IS COVERED BY A CLASS 1 VAPOR RETARDER MATERIAL. WHEN A CLASS 1 VAPOR RETARDER IS USED, THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 1,500 SQUARE FEET OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE

VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH ANY OF THE FOLLOWING MATERIALS PROVIDED THAT THE LEAST DIMENSION OF THE COVERING SHALL NOT EXCEED 1/4 INCH: PERFORATED SHEET METAL PLATES NOT LESS THAN 0.070 INCH THICK. EXPANDED SHEET METAL PLATES NOT LESS THAN 0.047 INCH THICK.

CAST-IRON GRILL OR GRATING

HARDWARE CLOTH OF 0.035 INCH WIRE OR HEAVIER. 6. CORROSION-RESISTANT WIRE MESH, WITH THE LEAST DIMENSION BEING 1/8 INCH THICK.

CONCRETE AND MASONRY FOUNDATION DAMPPROOFING (SECTION R406.1): EXCEPT WHERE REQUIRED BY SECTION GRADE SHALL BE DAMPPROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE. MASONRY WALLS SHALL HAVE NOT LESS THAN 3/8 INCH PORTLAND CEMENT PARGING APPLIED TO THE EXTERIOR OF THE WALL.

1. A BITUMINOUS COATING 3 POUNDS PER SQUARE YARD OF ACRYLIC MODIFIED CEMENT

1/8-INCH COAT OF SURFACE-BONDING CEMENT COMPLYING WITH ASTM C 887 . ANY MATERIAL PERMITTED FOR WATERPROOFING IN SECTION R406.2.

5. OTHER APPROVED METHODS OR MATERIALS

THE PARGING SHALL BE DAMPPROOFED IN ACCORDANCE WITH ONE OF THE FOLLOWING:

CONCRETE WALLS SHALL BE DAMPPROOFED BY APPLYING ANY ONE OF THE ABOVE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE

XTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER—RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.8. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER AS REQUIRED BY SECTION R703.2. AND A MEANS OF DRAINING TO THE EXTERIOR WATER THAT ENTERS THE ASSEMBLY. PROTECTION AGAINST CONDENSATION IN THE EXTERIOR WALL ASSEMBLY SHALL BE PROVIDED IN ACCORDANCE WITH SECTION R702.7.

STONE AND MASONRY VENEER (SECTION R703.7) STONE AND MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 7, TABLE R703.4 AND FIGURE CARPORTS (SECTION R309.2); CARPORTS SHALL BE OPEN ON AT LEAST TWO SIDES. CARPORT FLOOR SURFACES R703.7. THESE VENEERS INSTALLED OVER A BACKING OF WOOD OR COLD-FORMED STEEL SHALL BE LIMITED TO SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL, CARPORTS NOT OPEN ON AT LEAST TWO SIDES SHALL BE THE FIRST STORY ABOVE GRADE AND SHALL NOT EXCEED 5 INCHES IN THICKNESS. SEE SECTIONS R602.10 AND CONSIDERED A GARAGE AND SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION FOR GARAGES. R603.9.5 FOR WALL BRACING REQUIREMENTS FOR MASONRY VENEER.

1. FOR ALL BUILDINGS IN SEISMIC DESIGN CATEGORIES A, B AND C, EXTERIOR STONE OR MASONRY VENEER, AS SPECIFIED IN TABLE R703.7(1), WITH A BACKING OF WOOD OR STEEL FRAMING SHALL BE PERMITTED TO THE MORE SLEEPING ROOMS, EMERGENCY EGRESS

HEIGHT SPECIFIED IN TABLE R703.7(1) ABOVE A NONCOMBUSTIBLE FOUNDATION. 2. FOR DETACHED ONE- OR TWO-FAMILY DWELLINGS IN SEISMIC DESIGN CATEGORIES DO, D1 AND D2, EXTERIOR OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR. STONE OR MASONRY VENEER, AS SPECIFIED IN TABLE R703.7(2), WITH A BACKING OF WOOD FRAMING SHALL WHERE A DOOR OPENING HAVING A THRESHOLD BE PERMITTED TO THE HEIGHT SPECIFIED IN TABLE R703.7(2) ABOVE A NONCOMBUSTIBLE FOUNDATION.

LOAD-BEARING DIMENSION LUMBER FOR STUDS. PLATES AND HEADERS SHALL BE IDENTIFIED BY A GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITED BODY THAT COMPLIES WITH DOC PS 20. IN LIEU OF A GRADE MARK, A CERTIFICATION OF INSPECTION ISSUED BY A LUMBER OR GRADING AGENCY MEETING THE REQUIREMENTS OF THIS SECTION SHALL BE ACCEPTED. TOP PLATE (SECTION R602.3.2): WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET AT LEAST 24 INCHES. JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES NOMINAL THICKNESS AND HAVE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE

BOTTOM (SOLE) PLATE: STUDS SHALL HAVE FULL BEARING ON A NOMINAL 2-BY OR LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. FIREBLOCKING (SECTION 302.11): IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION

IN THE FOLLOWING LOCATIONS: 1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS: 1.1. VERTICALLY AT THE CEILING AND FLOOR LEVELS

1.2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET. 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.

3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7. 4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE

MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.

ROOF ASSEMBLIES & CONSTR. (CHAPTERS 8 & 9) ROOFING COVERING MATERIALS (SECTION R902.1): ROOFS SHALL BE COVERED WITH MATERIALS AS SET FORTH IN SECTIONS R904 AND R905. CLASS A, B OR C ROOFING SHALL BE INSTALLED IN AREAS DESIGNATED BY LAW AS REQUIRING THEIR USE OR WHEN THE EDGE OF THE ROOF IS LESS THAN 3 FEET FROM A PROPERTY LINE. CLASSES A, B AND C ROOFING REQUIRED BY THIS SECTION TO BE LISTED SHALL BE TESTED IN ACCORDANCE WITH UL 790 OR ASTM E 108.

ACCORDANCE WITH THE PROVISIONS OF CHAPTER 9. ROOF ASSEMBLIES SHALL BE DESIGNED AND INSTALLED IN FOOTINGS ON OR ADJACENT TO SLOPES (SECTION 403.1.7): THE PLACEMENT OF BUILDINGS AND STRUCTURES ON ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS SUCH THAT THE ROOF ASSEMBLY SHALL SERVE TO PROTECT THE BUILDING OR STRUCTURE. <u>VENTILATION REQUIRED (SECTION R806.1)</u>: ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH MINIMUM AND 1/4 INCH MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSION LARGER THAN 1/4 INCH SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16 INCH MINIMUM AND 1/4 INCH MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7.

MINIMUM VENT AREA (SECTION R806.2): THE TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN

EXCEPTIONS: THE MINIMUM NET FREE VENTILATION AREA SHALL BE 1/300 OF THE VENTED SPACE

1. IN CLIMATE ZONES 6, 7 AND 8, A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM-IN-WINTER 2. AT LEAST 40 PERCENT AND NOT MORE THAN 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NO MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED

VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EVE OR CORNICE VENTS. WHERE THE LOCATION OF WALL OR ROOF FRAMING MEMBERS CONFLICTS WITH THE INSTALLATION OF UPPER VENTILATORS, INSTALLATION MORE THEN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE SHALL RF PFRMITTFD

<u>VENT AND INSULATION CLEARANCE:</u> WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR. A MINIMUM OF A 1-INCH (25 MM) SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AND AT THE LOCATION OF THE VENT. ATTIC ACCESS (SECTION R807.1): BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN

ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30 THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS.

> THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22 INCHES BY 30 INCHES AND SHALL BE LOCATED IN A 1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET; AND HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. WHEN LOCATED IN A WALL, THE OPENING SHALL BE A

WOOD TRUSSES (R802.10)

TRUSS DESIGN DRAWINGS: TRUSS DESIGN DRAWINGS, PREPARED IN CONFORMANCE WITH SECTION R802.10.1, SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED IN SECTION R802.10.1. TRUSS DESIGN DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIVERED TO THE JOBSITE.

DESIGN: WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE. THE STATUTES OF THE JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION

BRACING: TRUSSES SHALL BE BRACED IN ACCORDANCE WITH IRC SECTION R802.10.3. ALTERATIONS TO TRUSSES: TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G., HVAC EQUIPMENT, WATER HEATER) THAT EXCEEDS THE DESIGN LOAD FOR THE TRUSS SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING.

GARAGES AND CARPORTS

<u>OPENING PROTECTION (SECTION R302.5.1)</u>: OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1-3/8 INCHES IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1-3/8 INCHES THICK, OR 20-MINUTE FIRE-RATED DOORS, EQUIPPED WITH A SELF-CLOSING DEVICE. DWELLING/GARAGE FIRE SEPARATION (SECTION R302.6): THE GARAGE SHALL BE SEPARATED AS REQUIRED BY

TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. THIS PROVISION DOES NOT

TABLE R302.6

APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.

DWELLING/GARAGE SEPARATION	
SEPARATION	MATERIAL
FROM THE RESIDENCE AND ATTICS	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE
FROM ALL HABITABLE ROOMS ABOVE THE GARAGE	NOT LESS THAN 5/8 INCH TYPE 'X' GYPSUM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING ON THE SAME LOT	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA

FLOOR SURFACE (SECTION R309): GARAGE FLOOR SURFACES SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL THE AREA OF FLOOR USED FOR PARKING OF AUTOMOBILES OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY.

EMERGENCY ESCAPE AND RESCUE OPENINGS (R310) EMERGENCY ESCAPE AND RESCUE REQUIRED: BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WHERE BASEMENTS CONTAIN ONE OR

AND RESCUE OPENINGS SHALL BE REQUIRED IN EACH SLEEPING ROOM. WHERE EMERGENCY ESCAPE AND RESCUE BELOW THE ADJACENT GROUND ELEVATION SERVES AS AN EMERGENCY ESCAPE AND RESCUE OPENING AND IS PROVIDED WITH A BULKHEAD ENCLOSURE, THE BULKHEAD ENCLOSURE SHALL COMPLY WITH SECTION R310.3. THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. EMERGENCY ESCAPE AND RESCUE OPENINGS WITH A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION SHALL BE PROVIDED WITH A WINDOW WELL IN ACCORDANCE WITH SECTION R310.2. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL OPEN DIRECTLY

EXCEPTION: BASEMENTS USED ONLY TO HOUSE MECHANICAL EQUIPMENT AND NOT EXCEEDING TOTAL FLOOR AREA OF 200 SQUARE FEET. MINIMUM OPENING AREA: ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET.

INTO A PUBLIC WAY, OR TO A YARD OR COURT THAT OPENS TO A PUBLIC WAY.

EXCEPTION: GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET. MINIMUM OPENING HEIGHT SECTION (R310.1.2): THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. MINIMUM OPENING WIDTH: THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES. OPERATIONAL CONSTRAINTS: EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. <u>WINDOW WELLS SECTION (R310.2)</u>: THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE

FEET, WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES. THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED. EXCEPTION: THE LADDER OR STEPS REQUIRED BY SECTION R310.2.1 SHALL BE PERMITTED TO ENCROACH A MAXIMUM OF 6 INCHES INTO THE REQUIRED DIMENSIONS OF THE WINDOW WELL. LADDER AND STEPS: WINDOW WELLS WITH A VERTICAL DEPTH GREATER THAN 44 INCHES SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION.

LADDERS OR STEPS REQUIRED BY THIS SECTION SHALL NOT BE REQUIRED TO COMPLY WITH SECTIONS R311.7 AND R311.8. LADDERS OR RUNGS SHALL HAVE AN INSIDE WIDTH OF AT LEAST 12 INCHES, SHALL PROJECT AT LEAST 3 INCHES FROM THE WALL AND SHALL BE SPACED NOT MORE THAN 18 INCHES ON CENTER VERTICALLY FOR THE FULL HEIGHT OF THE WINDOW WELL. <u>DRAINAGE (SECTION R310.2.2)</u>: WINDOW WELLS SHALL BE DESIGNED FOR PROPER DRAINAGE BY CONNECTING TO

THE BUILDING'S FOUNDATION DRAINAGE SYSTEM REQUIRED BY SECTION R405.1 OR BY AN APPROVED ALTERNATIVE EXCEPTION: A DRAINAGE SYSTEM FOR WINDOW WELLS IS NOT REQUIRED WHEN THE FOUNDATION IS ON WELL-DRAINED SOIL OR SAND-GRAVEL MIXTURE ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP I

SOILS, AS DETAILED IN TABLE R405.1. EGRESS DOOR (SECTION R311.2): AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED, AND SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32 INCHES WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THE MINIMUM CLEAR HEIGHT OF THE DOOR OPENING SHALL NOT BE LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. OTHER DOORS SHALL NOT BE REQUIRED TO COMPLY WITH THESE MINIMUM DIMENSIONS. EGRESS DOORS SHALL BE READILY OPENABLE FROM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

HALLWAYS SECTION R311.6): THE MINIMUM WIDTH OF A HALLWAY SHALL BE NOT LESS THAN 3 FEET. STORY ABOVE GRADE PLANE DEFINITION: ANY STORY HAVING ITS FINISHED FLOOR SURFACE ENTIRELY ABOVE GRADE PLANE, OR IN WHICH THE FINISHED SURFACE OF THE FLOOR NEXT ABOVE IS: ROOF DECKS SHALL BE COVERED WITH APPROVED ROOF COVERINGS SECURED TO THE BUILDING OR STRUCTURE IN 1. MORE THAN 6 FEET ABOVE GRADE PLANE: OR

2. MORE THAN 12 FEET ABOVE THE FINISHED GROUND LEVEL AT ANY POINT.

INSTALLED IN HAZARDOUS LOCATIONS AS DEFINED IN SECTION R308.4 SHALL BE PROVIDED WITH A MANUFACTURER'S DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, DESIGNATING THE TYPE OF GLASS AND THE SAFETY GLASS STANDARD WITH WHICH IT COMPLIES, WHICH IS VISIBLE IN THE FINAL INSTALLATION. THE DESIGNATION SHALL BE ACID ETCHED, SANDBLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED, OR BE OF A TYPE WHICH ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL SHALL BE PERMITTED IN LIEU OF THE MANUFACTURER'S DESIGNATION.

<u>IDENTIFICATION (SECTION R308.1):</u> EXCEPT AS INDICATED IN SECTION R308.1.1, EACH PANE OF GLAZING

R308.4 HAZARDOUS LOCATIONS: THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING: GLAZING IN DOORS (SECTION R308.4.1): GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING

AND BIFOLD DOORS.

FXCFPTIONS:

GLAZED OPENINGS OF A SIZE THROUGH WHICH A 3-INCH DIAMETER SPHERE IS UNABLE TO PASS.

2. DECORATIVE GLAZING GLAZING IN ADJACENT DOORS (SECTION R308.4.2): GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING

WHEN THERE IS AN INTERVENING WALL OR OTHER PERMANENT BARRIER BETWEEN THE DOOR AND THE GLAZING . GLAZING IN WALLS ON THE LATCH SIDE OF AND PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED

4. GLAZING ADJACENT TO A DOOR WHERE ACCESS THROUGH THE DOOR IS TO A CLOSET OR STORAGE AREA 3 FEET OR LESS IN DEPTH 5. GLAZING THAT IS ADJACENT TO THE FIXED PANEL OF PATIO DOORS

GLAZING IN WINDOWS (SECTION R308.4.3): GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR; AND

3. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR: AND 4. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING. FXCFPTIONS:

4.1. DECORATIVE GLAZING

4.2. WHEN A HORIZONTAL RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34 TO 38 INCHES ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAL FOOT WITHOUT CONTACTING THE GLASS AND BE A MINIMUM OF 1-1/2 INCHES IN CROSS SECTIONAL HEIGHT

OUTBOARD PANES IN INSULATING GLASS UNITS AND OTHER MULTIPLE GLAZED PANELS WHEN THE BOTTOM EDGE OF THE GLASS IS 25 FEET OR MORE ABOVE GRADE, A ROOF, WALKING SURFACES OR OTHER HORIZONTAL SURFACE ADJACENT TO THE GLASS EXTERIOR. GLAZING IN GUARDS AND RAILINGS (SECTION R308.4.4): GLAZING IN GUARDS AND RAILINGS, INCLUDING

STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION. GLAZING AND WET SURFACES (R308.4.5): GLAZING IN WALLS. ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED

SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING. EXCEPTION: GLAZING THAT IS MORE THAN 60 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, FROM THE WATERS EDGE.. <u>GLAZING ADJACENT STAIRS AND RAMPS (R308.4.6):</u> GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS. LANDINGS

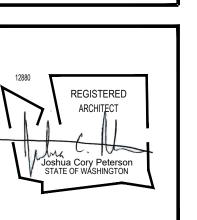
VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION. THIS

WHEN A RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34 TO 38 INCHES ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAL FOOT WITHOUT CONTACTING THE GLASS AND BE A MINIMUM OF 1-1/2 INCHES IN CROSS SECTIONAL

BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2. GLAZING 36 INCHES OR MORE MEASURED HORIZONTALLY FROM THE WALKING SURFACE.

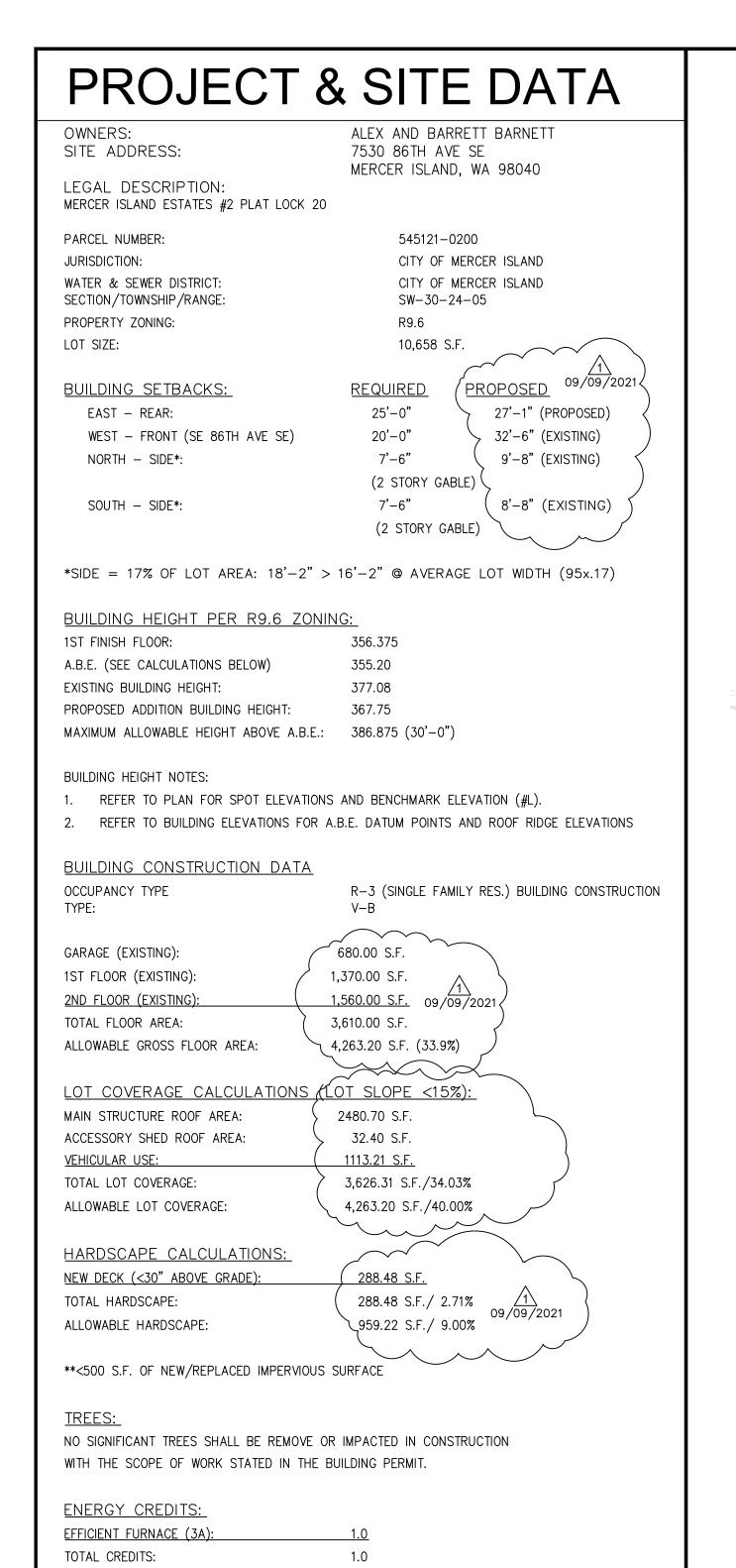
GLAZING ADJACENT TO THE BOTTOM STAIR LANDING (SECTION R308.4.7: GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES ABOVE THE LANDING AND WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD SHALL BE CONSIDERED A HAZARDOUS LOCATION. EXCEPTIONS: THE GLAZING IS PROTECTED BY A GUARD COMPLYING WITH SECTION 312 AND THE PLANE OF THE GLASS IS MORE THAN 18 INCHES FROM THE GUARD.



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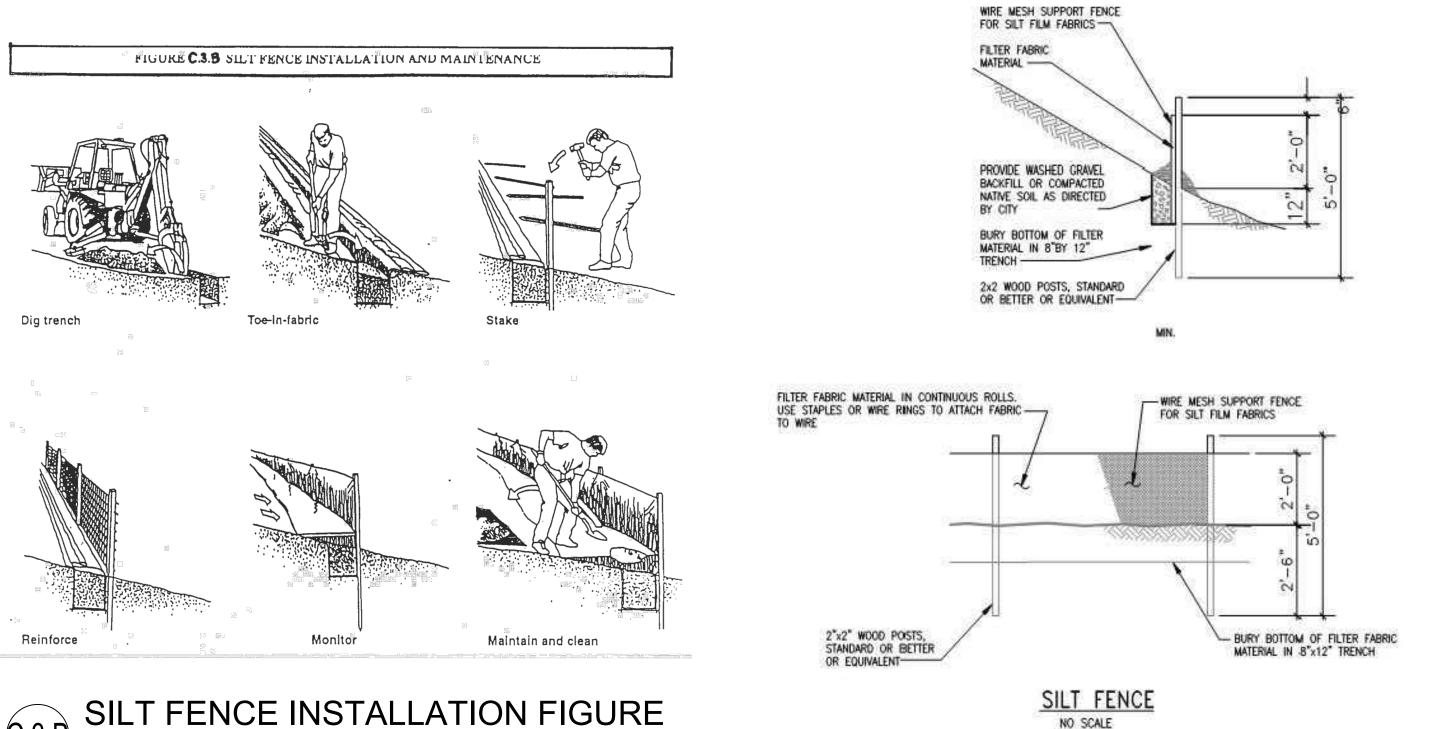
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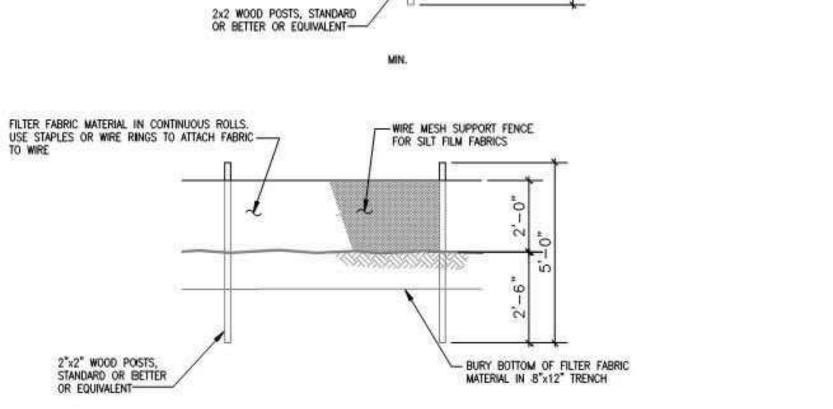
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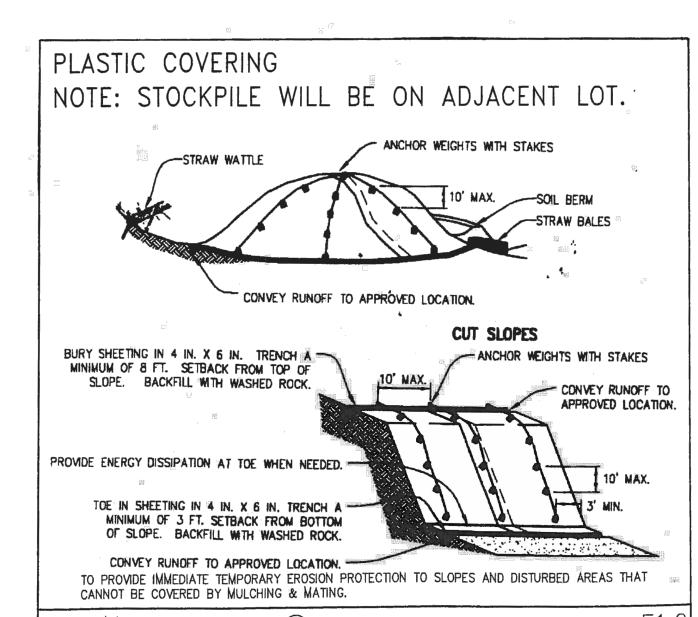
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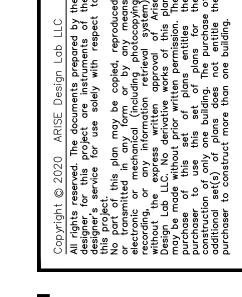
/ \.D.L. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
WALL SEGMENT	SEGMENT LENGTH	VIDPOINT ELEVATION	TOTAL
Α	15.75	354.5	5583.375
В	17.67	354.5	6264.015
С	11.75	355.2	4173.6
D	15	355.2	5328
Е	8.75	355.2	3108
F	20	355.7	7114
G	20.67	354.8	7333.716
Н	12	355.7	4268.4
1	22	355.9	7829.8
J	31	355.2	11011.2
K	4	354.8	1419.2
L	33	355.4	11728.2
M	26	355	9230
TOTALS	237.59	4617.1	84391.51
AVERAGE BASE ELEV	ATION		355.1981





CONVEY RUNOFF TO APPROVED LOCATION. CANNOT BE COVERED BY MULCHING & MATING. **←**—(CPC)—→ SYMBOL: STOCKPILE DETAIL





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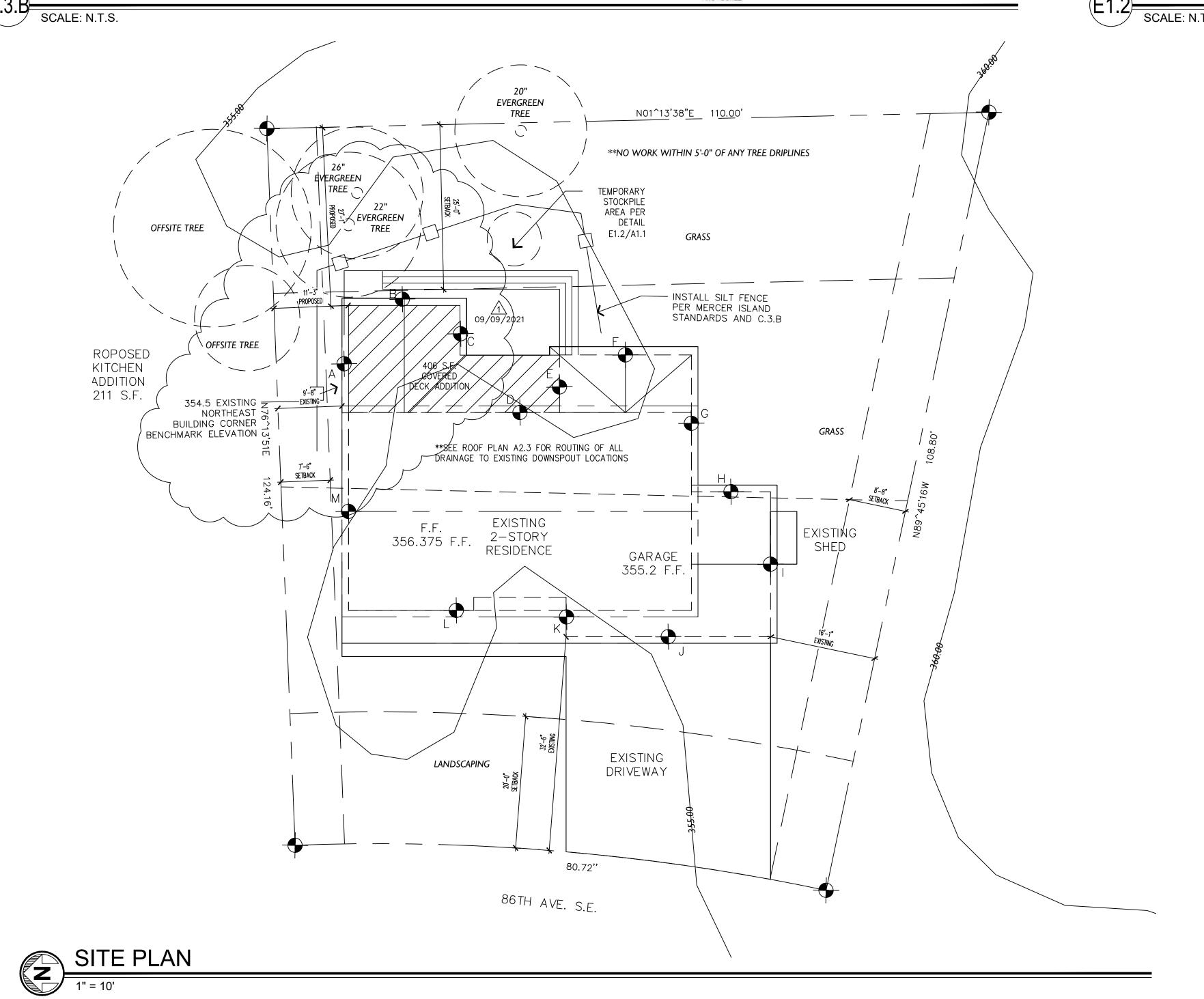
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SITE PLAN



EXISTING LIVING ROOM (NO WORK) DINING EX. **ROOM EXISTING KITCHEN MUD ROOM** 16'-5 1/2" EX. **BATH** 09/09/2021 (N.W.) **EXISTING EXISTING** SITTING 2 CAR **ROOM GARAGE** EX. (NO WORK) (NO WORK) **ENTRY** (N.W.)

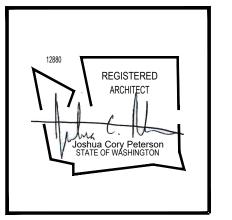
DEMOLITION MAIN FLOOR PLAN

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

KEY NOTES

- DEMO WALL AS REQUIRED FOR NEW OPENINGS PER PLAN. REFER TO STRUCTURAL DRAWINGS FOR BEAM SIZES AND EXISTING FLOOR JOIST SHORING/MODIFICATIONS. 2 DEMO BACK FOR NEW STRUCTURAL POST AND OPENING PER PLAN
- 3 EXISTING BAY WINDOW TO BE REMOVED
- RE-ROUTE SEWER LINES UNDER BATHROOM AS REQUIRED FOR NEW FOOTING PER STRUCTURAL.





DEMOLITION NOTES

. OBTAIN DEMOLITION PERMITS AND INCLUDE ALL COSTS OF SAME IN CONTRACT PRICE.

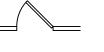
QUESTION WITH THE ARCHITECT BEFORE PROCEEDING.

- FURNISH ALL LABOR AND MATERIALS/EQUIPMENT TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED.
- GC SHALL KEEP CONSTRUCTION AREA FREE OF DUST AND DEBRIS FOR THE DURATION OF
- IF ANY QUESTIONS ARISE AS TO THE REMOVAL OF ANY MATERIAL, CLARIFY THE POINT IN
- AT COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREAS SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIAL SHALL BE
- ALL DEBRIS REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH BUILDING MANAGEMENT REQUIREMENTS AND PROCEDURES.
- AS DIRECTED BY BUILDING MANAGEMENT, ALL DOORS, FRAMES, HARDWARE, MECHANICAL ITEMS, PLUMBING FIXTURES, LIGHT FIXTURES (INCLUDING DOWNSPOUTS AND FLUORESCENTS), AND SPECIAL EQUIPMENT SHOWN TO BE REMOVED, SHALL BE CLEAN AND FREE OF DEFECTS, PROTECTED, SAVED AND REUSED AS DIRECTED HEREIN, OR RETURNED
- IN PARTITIONS TO BE REMOVED, REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC., TO THEIR SOURCE.
- GC SHALL BE RESPONSIBLE FOR PATCHING AND/OR REPAIRING ANY DAMAGE CAUSED BY HIM OR HIS SUBGCS TO EXISTING CONSTRUCTION PUBLIC CORRIDORS, RESTROOMS OR TENANT SPACES. REFINISH TO MATCH EXISTING ADJACENT FINISH, OR AS NOTED HEREIN.
- NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION. RELOCATION OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIPMENT, NECESSITATED BY NEW CONSTRUCTION, SHALL BE ACCOMPLISHED AS A FIRST PRIORITY, AND PER THE PLANS, NO ACTIVE SMOKE DETECTOR SHALL BE COVERED OR OTHERWISE REMOVED OR USED FOR OTHER THAN ITS INTENDED
- REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES, AND CONDUIT PERTAINING TO DATA/COMMUNICATIONS AND TELEPHONE SHALL BE VERIFIED WITH TELEPHONE COMPANIES
- . REMOVE ALL EXISTING MATERIALS, WHICH WOULD CAUSE RISES OR DEPRESSIONS IN NEW FLOORING SURFACE, SUCH AS FASTENERS, OUTLET CORES. COVER PLATES, RESILIENT FLOOR COVERINGS, CARPET, CARPET PAD, FLASH PATCH, CONCRETE FILL, PLYWOOD, ETC.
- DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON DWGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DWGS.
- RATED WALLS SHALL NOT BE PENETRATED UNLESS THE RATING IS MAINTAINED.
- ALL FLOORS SHOULD BE LEVEL AND NOT VARY MORE THAN 1/4" IN 10'-0". THE GC SHALL NOTIFY ARCHITECT OF ANY CONDITIONS THAT DO NOT MEET THIS STANDARD.

DEMO LEGEND



EXISTING INTERIOR WALLS, DOORS, RELITES, CABINETS AND SHELVING TO BE REMOVED (SHOWN DASHED), INCLUDING ELECTRICAL ITEMS ATTACHED TO WALLS. RÈFER TO FLOOR PLAN FOR EXTENT AND DIMENSIONS. RE-USE ITEMS IN EXCELLENT CONDITION, OR RETURN TO OWNER FOR



EXISTING CONSTRUCTION TO REMAIN.

24"x36" SCALE: AS NOTED PLOT DATE: 09/09/2021 A20-010 A2.1 D CAD FILE: JOB NUMBER: A20-010 CHECKED: DRAWN: STATUS: UNDER CONSTRUCTION

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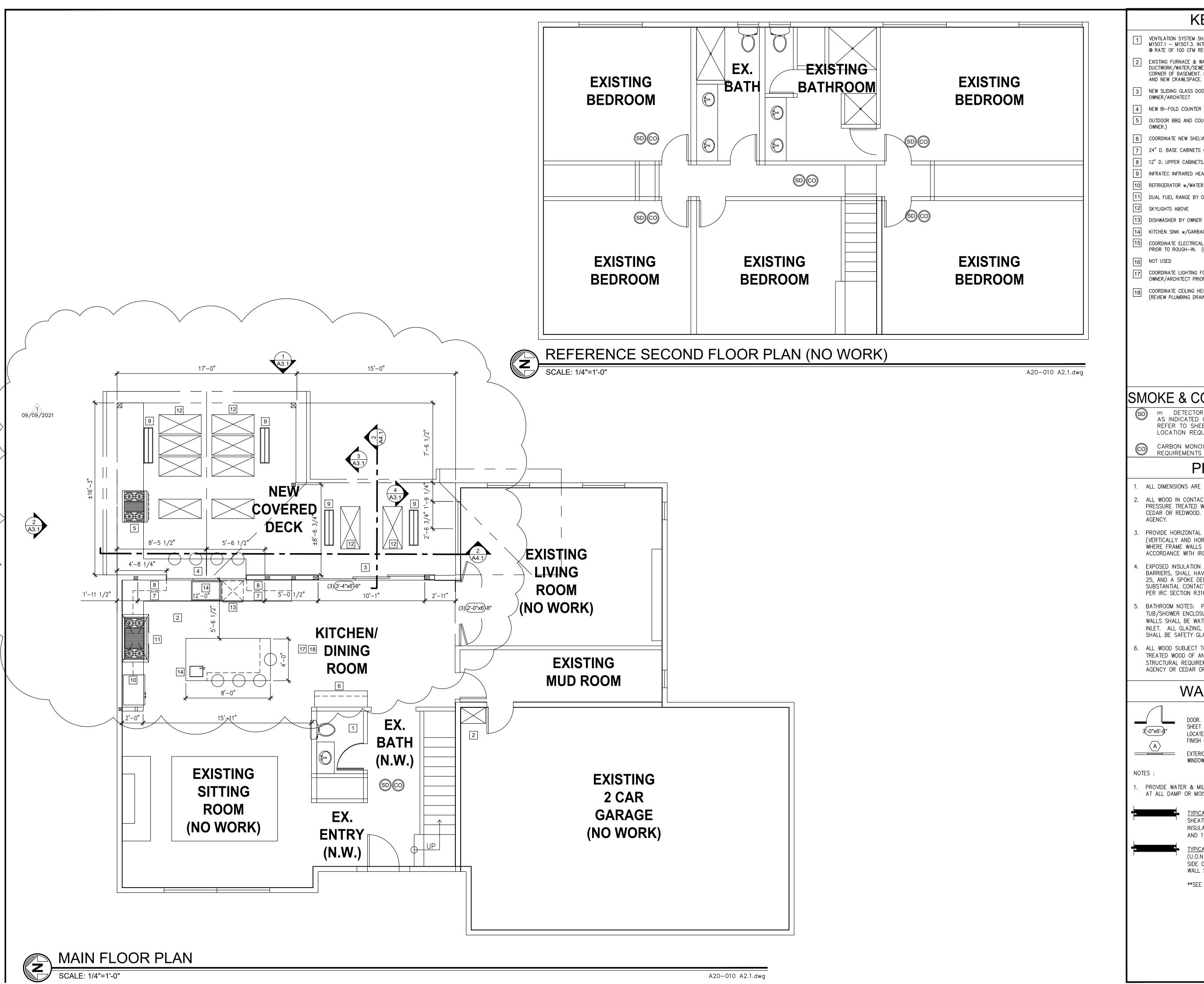
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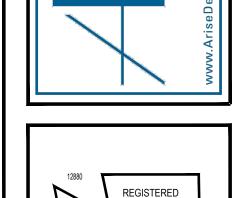
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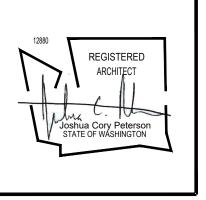
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KEY NOTES

- VENTILATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH WAC, SECTIONS M1507.1 M1507.3. INTERMITTENT WHOLE HOUSE VENTILATION PER IRC M1507.3.5 @ RATE OF 100 CFM REQUIRED. (KEYNOTE NOT SHOWN ON PLAN)
- 2 EXISTING FURNACE & WATER HEATER IN GARAGE. EXTEND DUCTWORK/WATER/SEWER LINES INTO NEW CRAWLSPACE FROM NORTHEAST CORNER OF BASEMENT. PROVIDE 25% FREE NET OPEN AREA BETWEEN EXISTING
- 3 NEW SLIDING GLASS DOOR. PELLA (OR EQUAL) COORDINATE SPEC WITH
- 4 NEW BI-FOLD COUNTER HEIGHT WINDOW.
- 5 OUTDOOR BBQ AND COUNTERTOP/CABINETS (G.C. TO COORDINATE SCOPE WITH
- 6 COORDINATE NEW SHELVING & COUNTER WITH OWNER
- 7 24" D. BASE CABINETS w/ COUNTER. COORDINATE WITH OWNER.
- 8 12" D. UPPER CABINETS. COORDINATE WITH OWNER
- 9 INFRATEC INFRARED HEATERS IN CEILING
- 10 REFRIGERATOR w/WATER CONNECTION
- 11 DUAL FUEL RANGE BY OWNER. (HOOD 100 CFM MIN. /400 CFM MAX.) 12 SKYLIGHTS ABOVE
- 13 DISHWASHER BY OWNER
- 14 KITCHEN SINK W/GARBAGE DISPOSAL. FURNISH BY OWNER/INSTALL BY CONTR.
- COORDINATE ELECTRICAL OUTLET LOCATIONS ABOVE ALL COUNTERS WITH OWNER PRIOR TO ROUGH-IN. (KEYNOTE NOT SHOWN ON PLAN)
- 16 NOT USED
- COORDINATE LIGHTING FOR KITCHEN AND EXISTING DINING ROOM w/ OWNER/ARCHITECT PRIOR TO ROUGH-IN (KEYNOTE NOT SHOWN ON PLANS)
- COORDINATE CEILING HEIGHT AND FURRING DETAILS WITH OWNER/ARCHITECT (REVIEW PLUMBING DRAINS FROM BATHROOM ABOVE)





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SMOKE & CO DETECTOR NOTES:

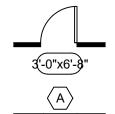
m DETECTOR/ALARM: 110V w/ BATTERY BACK-UP AS INDICATED ÓN PLANS — INTERCONNECTED SYSTEM. REFER TO SHEET A0.2 FOR ADDITIONAL SMOKE ALARM LOCATION REQUIREMENTS.

CARBON MONOXIDE ALARM — INSTALL PER MFR'S REQUIREMENTS AND REQUIREMENTS OF UL 2034

PLAN NOTES

- 1. ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OF ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD. ALL MARKED BY AN APPROVED TESTING
- PROVIDE HORIZONTAL FIREBLOCKING IN ALL FRAME WALLS (VERTICALLY AND HORIZONTALLY) AT MAX. 10'-0" ON CENTER AND WHERE FRAME WALLS PENETRATÉ CEILINGS. FIREBLOCK IN ACCORDANCE WITH IRC SECTION R602.8.
- EXPOSED INSULATION MATERIALS INCLUDING FACINGS AND VAPOR BARRIERS, SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SPOKE DENSITY NOT TO EXCEED 450, OR SHALL BE IN SUBSTANTIAL CONTACT WITH THE WALL OR CEILING SURFACE FINISH PER IRC SECTION R316.1
- BATHROOM NOTES: PROVIDE FIREBLOCKING BETWEEN STUDS AT TUB/SHOWER ENCLOSURE(S). LIMIT SHOWER FLOW TO 2.5 G.P.M. WALLS SHALL BE WATERPROOF TO A MINIMUM OF 72" ABOVE DRAIN INLET. ALL GLAZING, INCLUDING WINDOWS, WITH 70" OF DRAIN INLET, SHALL BE SAFETY GLASS.
- ALL WOOD SUBJECT TO WEATHER EXPOSURE SHALL BE PRESSURE TREATED WOOD OF ANY SPECIES (REFER TO STRUCTURAL PLANS FOR STRUCTURAL REQUIREMENTS) MARKED BY AN APPROVED TESTING AGENCY OR CEDAR OR REDWOOD.

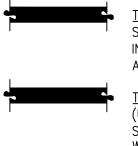
WALL LEGEND



DOOR. REFER TO KEYS ON PLAN AND SEE DOOR SCHEDULE, SHEET A6.1. DOORS THAT ARE NOT DIMENSIONED ARE TO BE LOCATED A MIN. 4" FROM ADJACENT PERPENDICULAR WALL FINISH OR CENTERED IN HALLWAY.

EXTERIOR WINDOW — REFER TO EXTERIOR ELEVATIONS AND WINDOW SCHEDULE SHEET A6.1

PROVIDE WATER & MILDEW/MOLD RESISTANT NON-PAPER FACED G.W.B. AT ALL DAMP OR MOISTURE EXPOSED LOCATIONS



TYPICAL EXTERIOR WALL: 2x 6 (U.O.N.) w/ PLYWD SHEATHING PER STRUCTURAL ENGINEER w/ MIN. R-21 INSULATION, 4 MIL VAPOR BARRIER (AT WARM SIDE) AND 1/2" INTERIOR G.W.B.

TYPICAL INTERIOR/EXISTING INFILL WALL: 2x 4 (U.O.N.) WOOD STUDS @ 16"O.C. w/ 1/2" G.W.B. EACH SIDE OR AS REQ'D PER STRUCTURAL AND SHEAR WALL SCHEDULE; FINISH PER OWNER SPECS.

**SEE TYPICAL FRAMING DETAILS 1-8/A5.1

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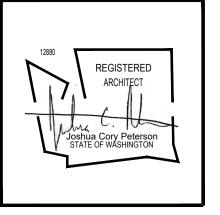
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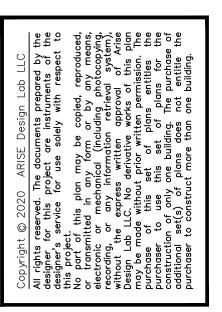
FLOOR PLAN

ROOF PLAN NOTES

- 1. ALL DIMENSIONS ARE TO FACE OF STUD, U.O.N.
- 2. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OF ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD. ALL MARKED BY AN APPROVED TESTING
- 3. PROVIDE HORIZONTAL FIREBLOCKING IN ALL FRAME WALLS (VERTICALLY AND HORIZONTALLY) AT MAX. 10'-0" ON CENTER AND WHERE FRAME WALLS PENETRATE CEILINGS. FIREBLOCK IN ACCORDANCE WITH IRC SECTION R602.8.
- 4. EXPOSED INSULATION MATERIALS INCLUDING FACINGS AND VAPOR BARRIERS, SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25, AND A SMOKE DENSITY NOT TO EXCEED 450, OR SHALL BE IN SUBSTANTIAL CONTACT WITH THE WALL OR CEILING SURFACE FINISH PER IRC SECTION R316.1
- 5. ALL TRUSSES SHALL CARRY MANUFACTURER'S STAMP AND SHALL BE INSTALLED AND BRACED TO MFR'S SPECIFICATIONS. ALL TRUSSES WILL NOT BE FIELD ALTERED WITHOUT PRIOR BUILDING DEPARTMENT APPROVAL OF ENGINEERING CALCS. ALL TRUSSES SHALL HAVE DESIGN DETAILS AND DRAWINGS ON SITE FOR FRAMING INSPECTION.
- 6. G.C. TO FIELD VERIFY ALL EXISTING ROOF SLOPES AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS OR TRUSSES.
- 7. ALL NEW EXTERIOR HEADERS ARE REQUIRED TO BE INSULATED WITH A MINIMUM R-10 INSULATION. REFER TO TYPICAL EXTERIOR HEADER DETAIL 8







DRAINAGE GENERAL NOTES:

- 1. DOWNSPOUTS SHALL BE TIED INTO A NON-PERFORATED, RIGID, SMOOTH-BORE
- PIPE WHICH DRAINS TO AN APPROVED STORM SYSTEM 2. PROVIDE CLEANOUTS AT THE UPPER END OF THE SYSTEM AND AT EACH
- CUMULATIVE CHANGE OF DIRECTION IN EXCESS OF 135 DEGREES. 3. ALL PIPE FITTINGS SHALL BE MADE OF THE SAME MATERIAL AS THE STRAIGHT PIPE, GLUED JOINTS SHALL USE A BONDING AGENT RECOMMENDED BY THE PIPE MANUFACTURER.
- 4. FOOTING DRAINS SHALL BE INSTALLED AROUND ALL NEW FOUNDATIONS AND SHALL BE TIED TO THE STORM DRAINAGE SYSTEM. FOOTING DRAINS SHALL BE CONSTRUCTED OF PERFORATED PIPE AT THE BASE OF THE FOOTING, AND SHALL MEET MATERIAL STANDARDS OF D2729 FOR PVC PIPE, WITH THE PERFORATIONS DIRECTED DOWNWARD. PLACE GRANULAR BACKFILL AROUND AND ABOVE THE FOOTING DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. PROVIDE FILTER FABRIC WRAP AROUND BETWEEN THE GRANULAR BACKFILL AND THE NATIVE SOIL. REFER TO GEOTECHNICAL ENGINEERING INVESTIGATION PREPARED BY LIU & ASSOCIATES, INC. DATED 3-5-2018 FOR FOUNDATION DRAINAGE REQUIREMENTS AND RECOMENDATIONS.

ROOF VENTILATION CALCS

ADDITION LOW ROOF AREA:

208 SQ. FT./300 = 0.694 SQ. FT. x .50 = 0.347 SQ. FT. OF REQUIRED ROOF VENTILATION \times 144 = 49.2 SQ. IN. MINIMUM OF ATTIC CROSS VENTILATION AREA REQUIRED AT ADDITION LOW ROOF

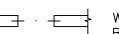
LOW ROOF EAVE BLOCKING = 13.25 LF LOW (3) 2" HOLES / 22" BLOCK =

2" HOLE = 4 SQ. IN. 1.5 HOLES / LF = 1.5 (4 SQ. IN) = 6 SQ. IN. / LF 13.25 LF X 6 SQ. IN = 79.5 SQ. IN.TOTAL 79.5 > 49.2 REQ.D = 0K*

*PROVIDE 12X12 ROOF VENTILATORS @ EACH JOIST BAY WHERE EAVE BLOCKING IS NOT PROVIDED

> (3) - 2" HOLES PER BLOCK BLOCKING TO MATCH JOIST HEIGHT (CONTINUOUS 2" SOFFIT VENT (BLACK) @ ENCLOSED SOFFITS)

ROOF PLAN LEGEND



WALL BELOW PER PLANS w/ HEADER or BEAM PER STRUCTURAL



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ROOF PITCH INDICATOR. G.C. TO FIELD VERIFY ALL EXISTING ROOF SLOPES AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS OR TRUSSES

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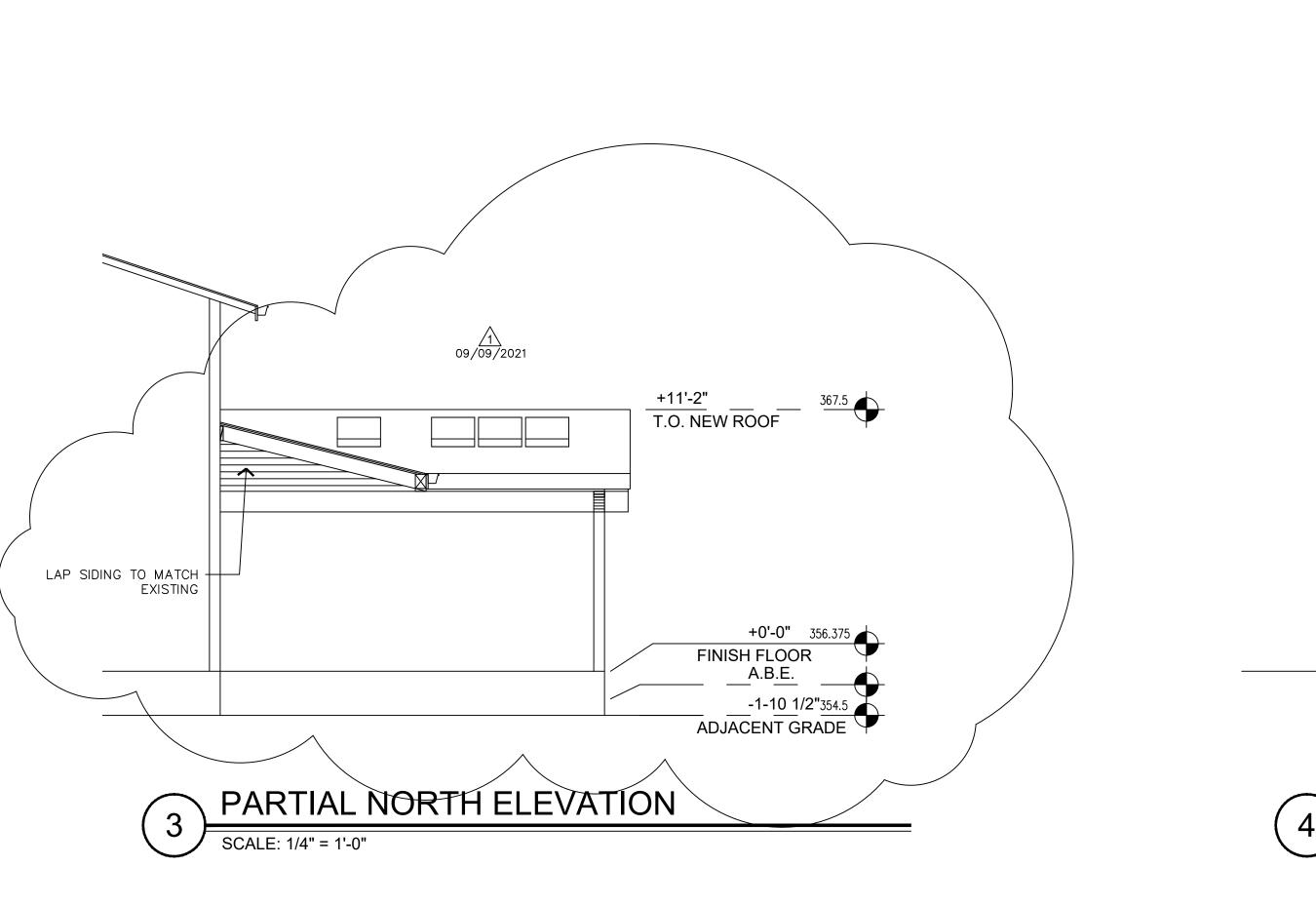
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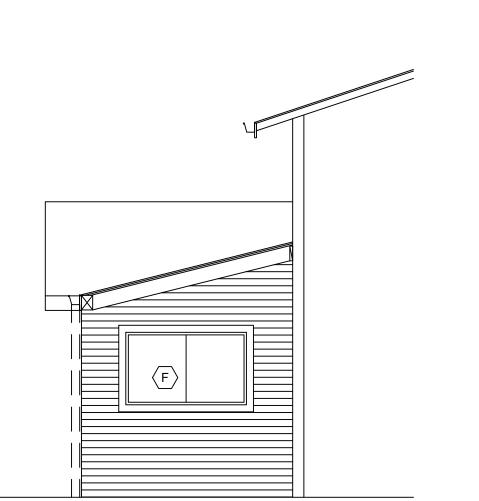
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ROOF PLAN

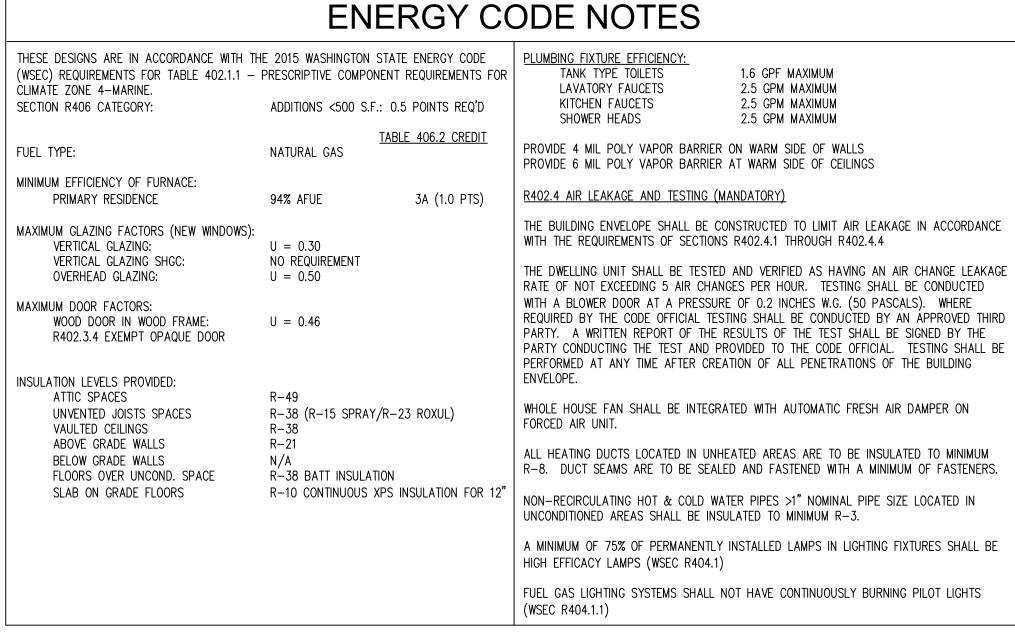


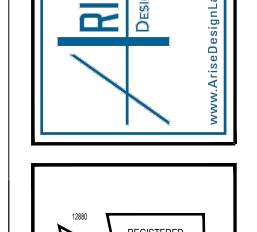
EAST ELEVATION

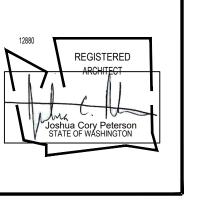


PARTIAL SOUTH ELEVATION

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







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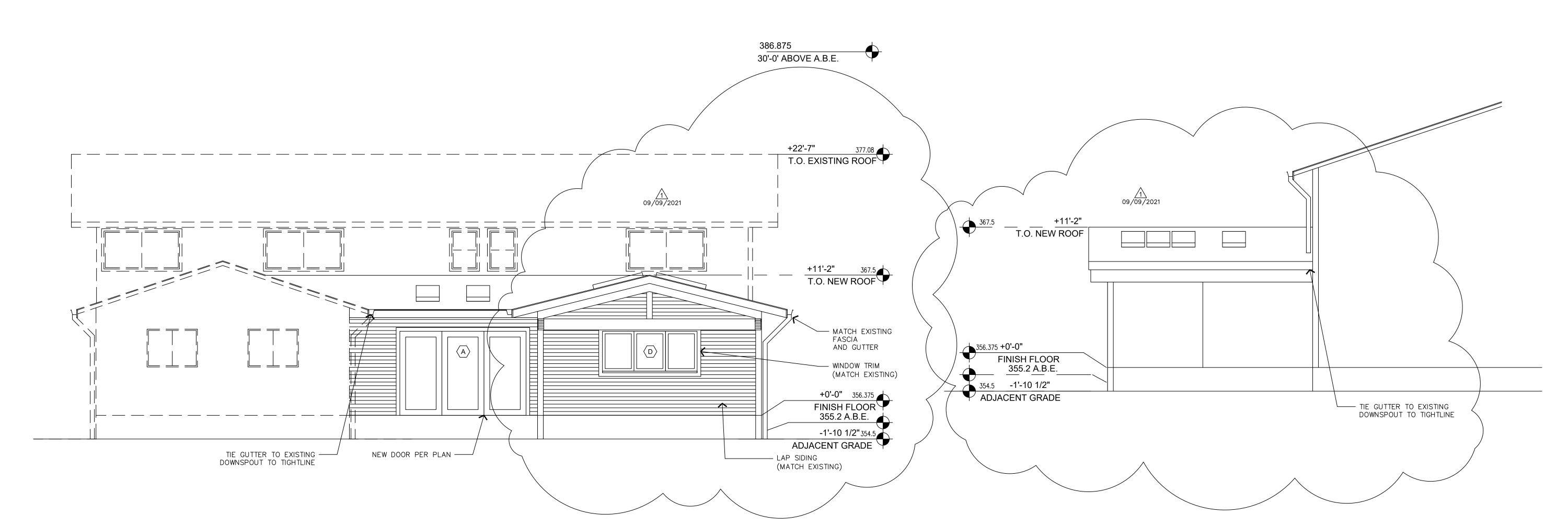
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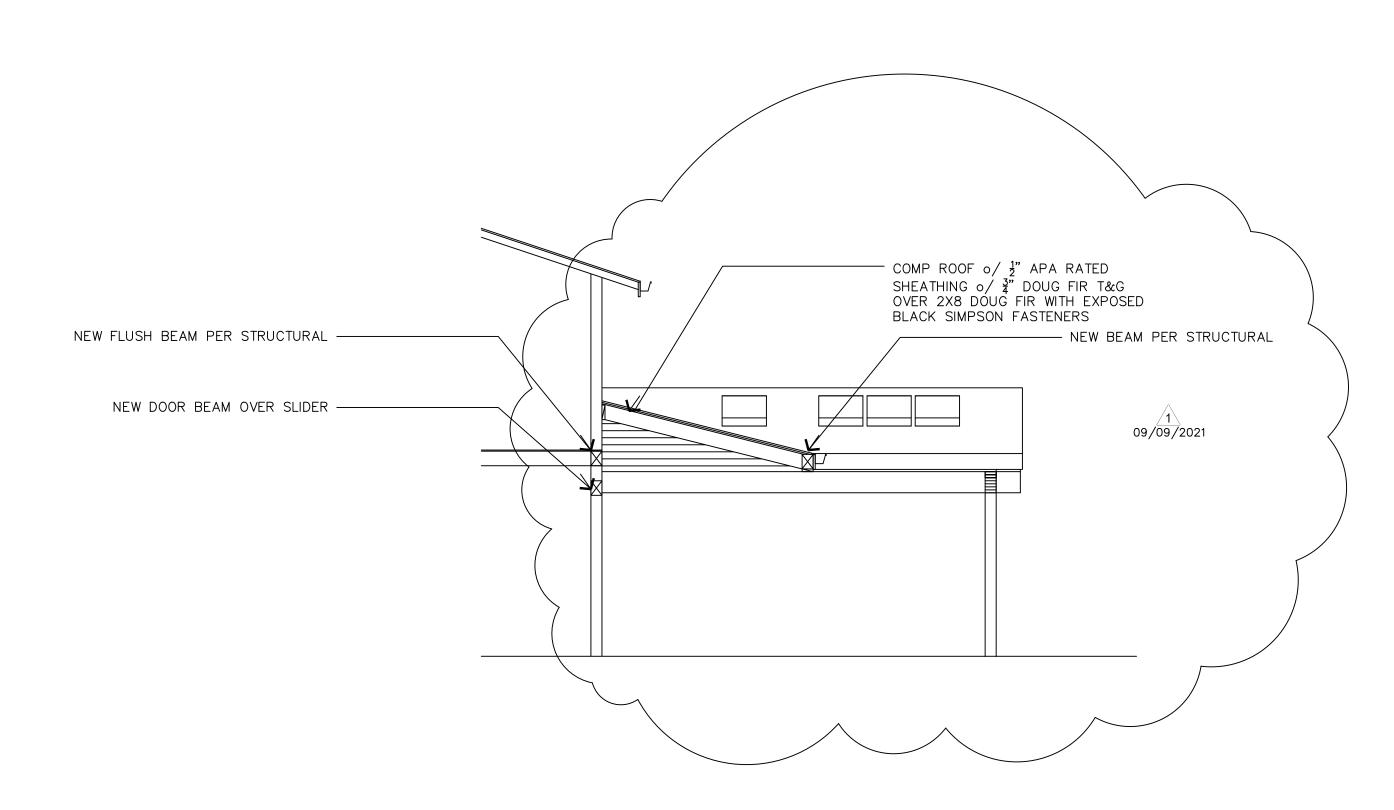
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EXTERIOR ELEVATIONS/ ENERGY CODE NOTES

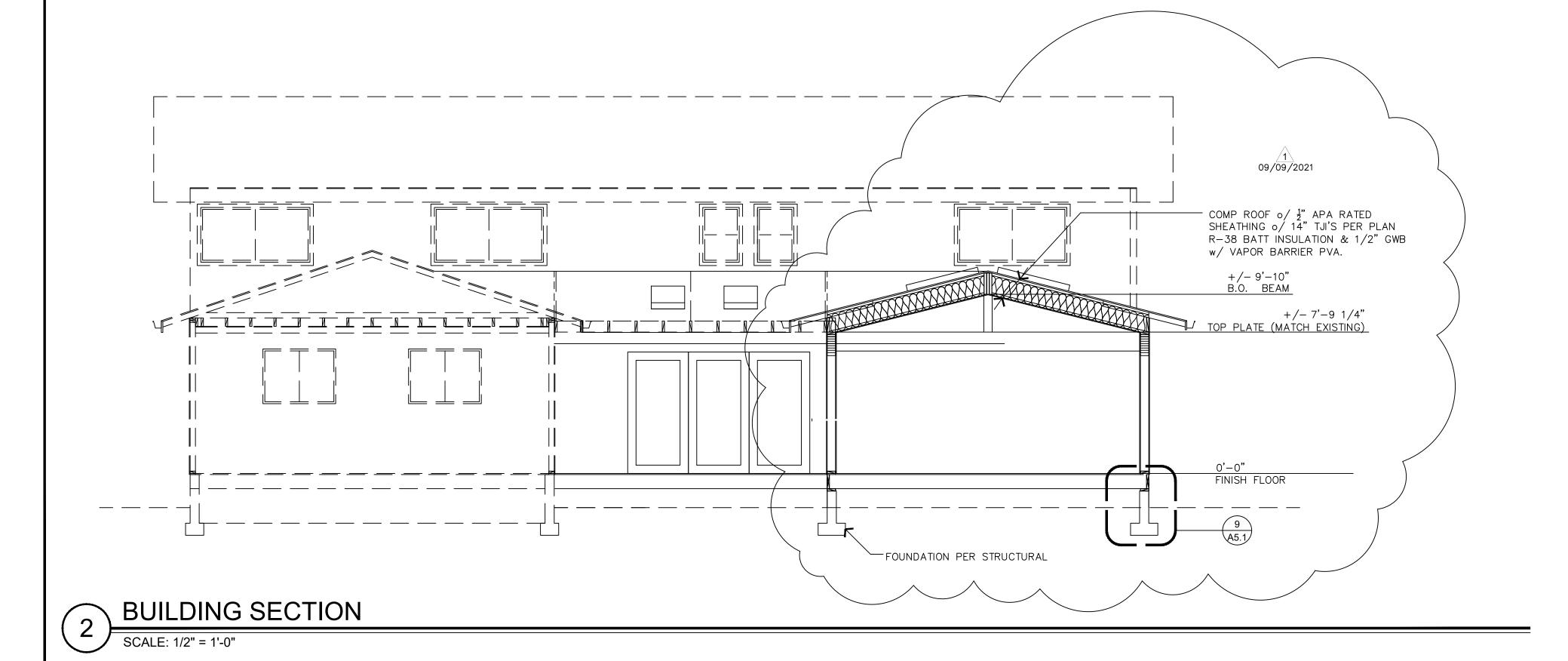


SOUTH ELEVATION

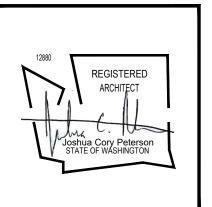


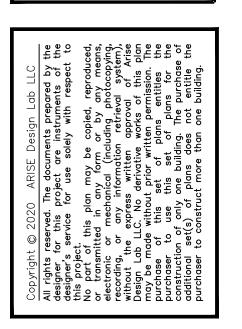
BUILDING SECTION (SEE 2/A4.1 FOR TYP. NOTES)

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







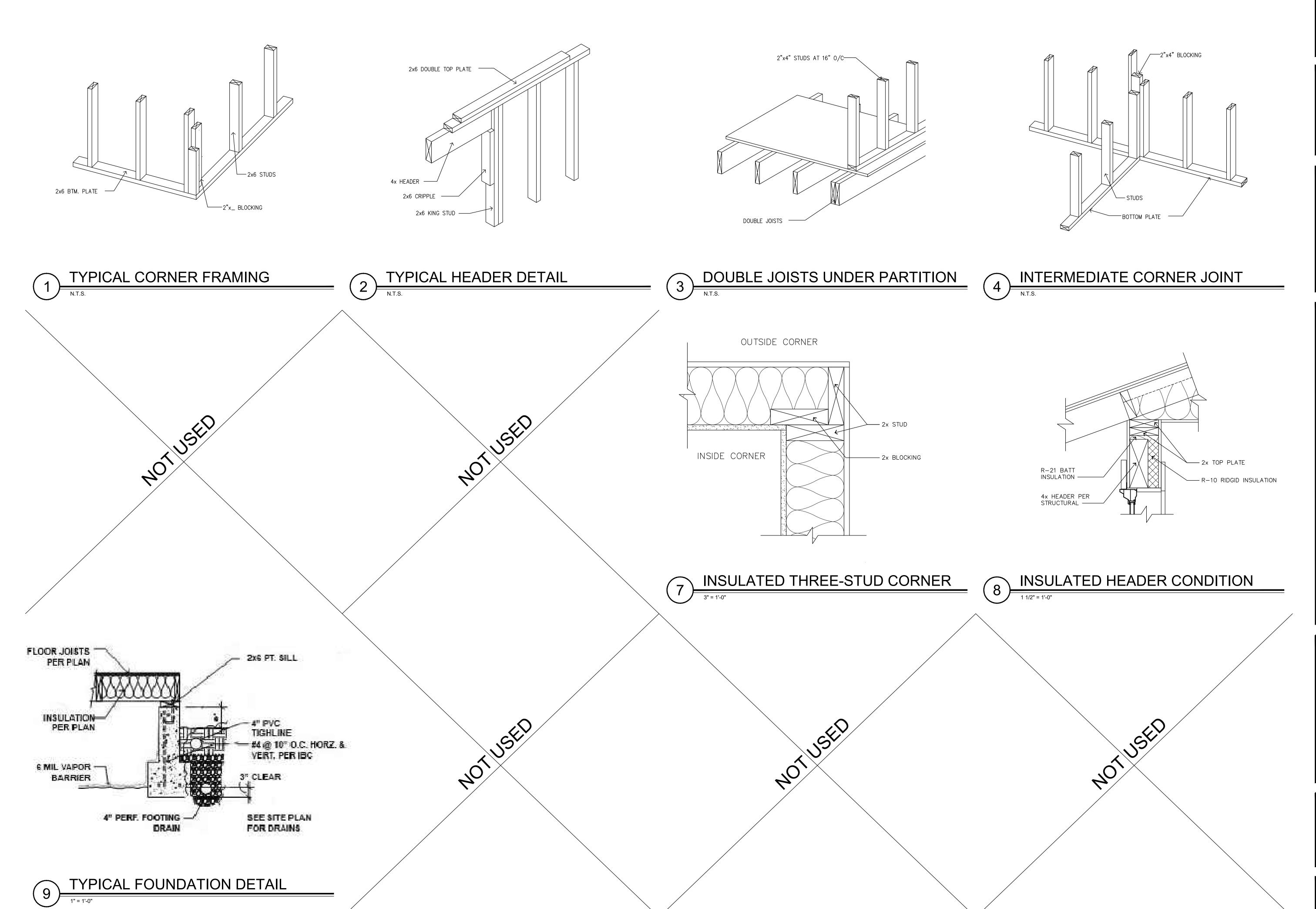


BARNETT RESIDENCE ADDITION/REMODEL

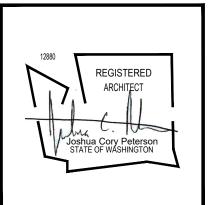
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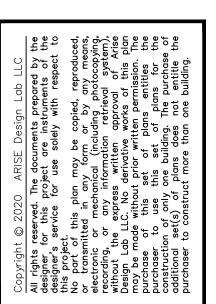
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BUILDING SECTIONS









SARNETT RESIDENCE ADDITION/REMODEL

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CAD FILE:	A20-010 A5.1
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FRAMING DETAILS

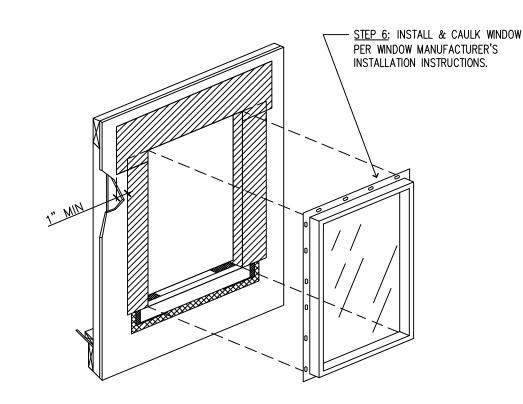
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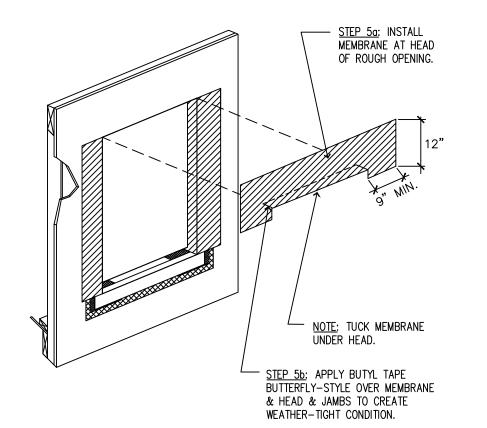
- CONTRACTOR SHALL PERFORM ALL WORK WITHIN THIS SCOPE IN ACCORDANCE AND COMPLIANCE WITH ALL RELEVANT CITY, COUNTY, STATE AND/OR FEDERAL ORDINANCES, LAWS, REGULATIONS AND CODES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS ESTABLISHED BY THE 2012 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH APPROPRIATE STATE AND LOCAL JURISDICTION AMENDMENTS.
- CONTRACTOR SHALL MAINTAIN THE JOBSITE IN A CLEAN AND WORKMANLIKE CONDITION. ANY DEBRIS GENERATED DURING CONSTRUCTION SHALL BE REMOVED FROM THE JOBSITE CONTINUALLY. THE JOBSITE SHALL BE LEFT IN A CLEAN AND NEAT CONDITION AT THE END OF EACH WORKDAY. DEBRIS REMOVAL FROM THE JOBSITE SHALL BE ONGOING. CONTRACTOR SHALL DISPOSE ALL MATERIALS AND DEBRIS IN A LEGAL MANNER. ALL PEDESTRIAN AND VEHICULAR ACCESS—WAYS SHALL BE MAINTAINED IN A CLEAN CONDITION THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION.

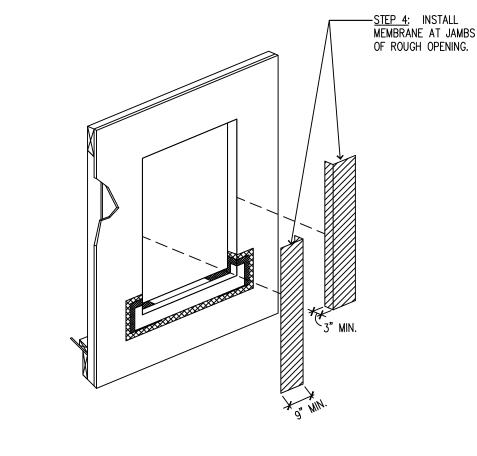
MUST BE CARRIED OUT PRIOR TO COMMENCEMENT OF EXTERIOR ENVELOPE WORK.

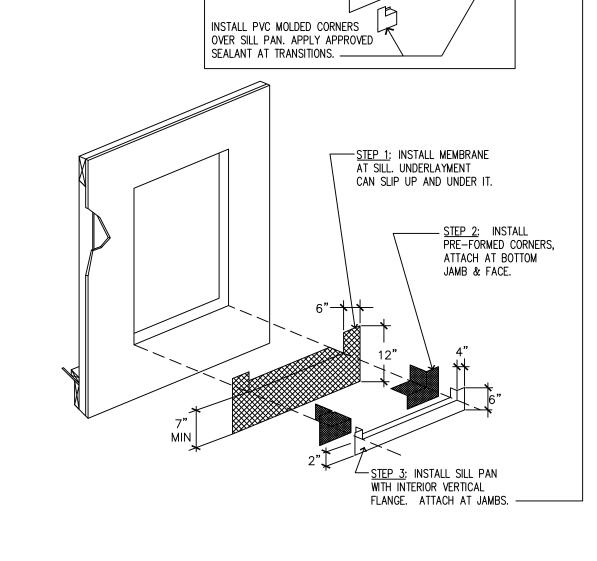
- CONTRACTOR SHALL FOLLOW SPECIFIED WATERPROOFING SYSTEMS AND INCORPORATION THEREOF. CONTRACTOR SHALL VERIFY THE MATERIAL COMPATIBILITY OF ALL WATERPROOFING COMPONENTS, SUCH AS SEALANTS, CLOSED-CELL BACKER ROD, SELF-ADHERING MEMBRANE, ETC., UTILIZED IN CONJUNCTION WITH OTHER WATERPROOFING OR BUILDING SYSTEM COMPONENTS, SHOULD THE CONTRACTOR DECIDE TO REQUEST MATERIAL SUBSTITUTION FROM THOSE SPECIFIED BY THE ARCHITECT.
- PRIOR TO PURCHASING AND INSTALLATION, THE CONTRACTOR SHALL PROVIDE THE ARCHITECT FOR THEIR APPROVAL, SHOP DRAWINGS AND SPECS FOR ALL METAL FLASHING AND COUNTER-FLASHINGS IN ORDER TO DEMONSTRATE THEIR UNDERSTANDING OF
- CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND ASSURANCE OF THE WORK PERFORMED BY THE CONTRACTOR, ITS AGENTS, EMPLOYEES OR ANY SUBCONTRACTOR EMPLOYED OR OTHERWISE RETAINED BY THE CONTRACTOR. CONTRACTOR IS FURTHER RESPONSIBLE FOR PROPER INTEGRATION OF BUILDING COMPONENTS TO PROVIDE A WEATHER-RESISTIVE BUILDING SYSTEM AS INTENDED BY THE DETAILS PROVIDED BY ARCHITECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF WORK AND SHALL CARRY OUT ALL WORK IN COMPLIANCE WITH THE BEST INDUSTRY STANDARDS AND IN COMPLIANCE WITH PUBLISHED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND STANDARDS REFERENCED IN THE SPECIFICATIONS.
- MOCKUP(S) OF ALL BUILDING ENVELOPE COMPONENTS SUCH AS WINDOWS, DOORS, WRB, CLADDING AND PENETRATION INSTALLATION
- 9. DETAILS MAY NOT BE MODIFIED, REVISED OR ELIMINATED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN CONSENT
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND SCHEDULE FOR INSPECTION AND APPROVAL OF THE WORK PERFORMED WITH RESPECT TO EACH OF THE WATERPROOFING COMPONENTS.
- UNLESS OTHERWISE NOTED, ALL EXPOSED METAL FLASHINGS AND COUNTER-FLASHINGS SHALL BE MADE OF MINIMUM 24 GA PRE-FINISH SHEET METAL. METAL FLASHING SHALL CONFORM TO SMACNA, NRCA, BUILDING CODE AND OTHER RELEVANT CODES AND INDUSTRY STANDARDS. THE VERTICAL LEGS OF SAID FLASHINGS SHALL BE MINIMUM 6 INCHES LONG. THE JOINTS OF PRE-FINISH METAL FLASHINGS SHALL BE BENT IN PLACE SUCH AS TO PREVENT MOISTURE MIGRATION PAST THE END DAMS. AL CONCEALED METAL FLASHING AND COUTER-FLASHING PIECES SHALL BE 24 GA G-90 GALVANIZED SHEET METAL OR SCHEDULE 307 STAINLESS STEEL. JOINTS OF ALL FLASHING PIECES OTHER THAN PRE-FINISH METAL MUST BE WELDED OR SOLDERED. ALL METAL FLASHING SYSTEMS SHALL BE MANUFACTURED & INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL SHEET METAL MANUAL PUBLISHED BY SMACNA. UNLESS OTHERWISE NOTED, ALL METAL HEAD FLASHINGS SHALL HAVE A MINIMUM 1/2"-TALL END-DAMS. UNLESS OTHERWISE NOTED, ALL SILL PAN FLASHINGS SHALL HAVE END— AND BACK—DAMS. UNLESS OTHERWISE NOTED ALL FLASHINGS AND COUNTER FLASHINGS (METAL AND OTHERWISE) SHALL BE SET IN A CONTINUOUS BEAD OF NON SKINNING BUTYL SEALANT OR APPROVED EQUAL.
- UNLESS OTHERWISE NOTED, ENGINEERED SEALANT JOINTS SHALL BE 1/2-INCH MINIMUM WIDE BY 1/4-INCH MINIMUM DEEP IN AN ATTEMPT TO MAINTAIN A 2:1 RATIO. SEALANTS SHALL BE ONE—PART SILICONE SEALANT & SINGLE—PART POLYURETHANE FOR SURFACE APPLICATION AND NON-SKINNING BUTYL FOR INSTALLATION BETWEEN CONCEALED MATERIAL INTERFACES. ACCEPTABLE SEALANTS INCLUDE BUT ARE NOT LIMITED TO DOW CORNING 790 AND 795 SILICONE BUILDING SEALANT, SIKAFLEX 15 LM, AND SONOLASTIC 150 VLM.
- 3. WEATHER-RESISTIVE BARRIER (WRB) SHALL BE COMPRISED OF (1) LAYER OF HIGH-PERFORMANCE VAPROSHIELD-WRAPSHIELD BREATHABLE UNDERLAYMENT MANUFACTURED BY VAPROSHIELD, LLC. NO SUBSTITUTION IS ALLOWED WITHOUT PRIOR APPROVAL. REFER TO DETAILS 6, 10 & 12 ON THIS SHEET FOR ADDITIONAL INFORMATION AND OVERLAP REQUIREMENTS.
- WINDOW AND DOOR UNITS INSTALLED WITHIN THE EXTERIOR WALL SYSTEM MAY NEED TO BE FURRED OUT TO ALLOW FOR PROPER DRAINAGE. IF THIS IS THE CASE, THE FURRING MATERIAL SHALL BE PVC BATTENS OR PRESSURE—TREATED SOLID BLOCKING.
- 15. THE ROUGH OPENING FOR WINDOWS MUST BE 1/2" WIDER AND 1/2" + TALLER THAN THE WIDTH & HEIGHT OF THE WINDOW UNIT AS THE SILL PAN WILL LIFT THE WINDOW UNITS BY APPROXIMATELY 1/8"-1/4" OFF THE SILL. REFER TO WINDOW MFR'S INSTALLATION MANUAL FOR ADDITIONAL ROUGH OPENING REQUIREMENTS.
- 16. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WOOD BLOCKING SHALL BE PRESSURE-TREATED LUMBER. IF SUCH MATERIAL IS CUT ONSITE, CUT ENDS MUST BE TREATED WITH STANDARD WOOD PRIMERS IMMEDIATELY.
- 7. FURRING BATTENS SHALL BE EITHER 1X4 BORATE—TREATED LUMBER OR 3/4" BY 1—7/8" PVC VAPROBATTEN MANUFACTURED BY VAPROSHIELD LLC. FURRING BATTENS SHALL ONLY BE INSTALLED VERTICALLY. FURRING BATTENS MUST BE INSTALLED DIRECTLY OVER STUDS SPACED NO MORE THAN 16" o.c. FURRING BATTENS MUST BE SECURELY ATTACHED TO THE STUDS USING APPROVED FASTENERS. ENSURE THAT THE FASTENERS FOR SIDING INSTALLATION ARE LONG ENOUGH TO PENETRATE THROUGH THE FURRING BATTENS, SHEATHING(S) AND INTO STUDS A MINIMUM OF 1/2". WHERE DISSIMILAR MATERIALS ABUT, INSTALL FURRING BATTENS DIRECTLY BEHIND MATERIAL TRANSITIONS.
- 18. AT RAINSCREEN SYSTEMS INSECT SCREENS SHALL BE PROVIDED AT TOP & BOTTOM OF THE WALLS AS WELL AS TOP & BOTTOM ANY AND ALL WALL PENETRATIONS. IT SHALL BE EITHER 3/4" MIN VAPROVENT STRIP / VAPROVENT HOOK STRIP OR METAL BUG SCREEN. THE SCREEN / STRIP MUST BE INSTALLED CONTINUOUSLY.
- WINDOW AND DOOR PENETRATION WRAPS SHALL CONSIST OF VAPROSHIELD-WRAPSHIELD MANUFACTURED BY VAPROSHIELD LLC. INSTALL PENETRATION WRAPS PER MANUFACTURER'S RECOMMENDATIONS AS WELL AS THE WATERPROOFING DETAILS. USE FACTORY PRE-FORMED CORNERS. USE APPROPRIATE PRIMER FOR APPLICATIONS AT EXTERIOR SHEATHING OR WHERE THE SURFACE TEMPERATURE IS BELOW 40-DEGREE FAHRENHEIT PURSUANT TO THE MANUFACTURER'S INSTRUCTIONS.
- 20. UNLESS OTHERWISE NOTED, SELF-ADHERING MEMBRANE (S.A.M.) SHALL BE MINIMUM OF 9" WIDE WRAPSHIELD S.A.M. MANUFACTURED BY VAPROSHIELD LLC; OR THERMFLASH. USE APPROPRIATE PRIMER FOR APPLICATIONS AT EXTERIOR SHEATHING OR WHERE THE SURFACE TEMPERATURE IS BELOW 40-DEGREE FAHRENHEIT PER MANUFACTURER'S RECOMMENDATIONS.
- WHERE THROUGH WALL PENETRATIONS OCCUR (e.g., HOSE BIBS, PIPES, ELECTRICAL BOXES, LIGHT FIXTURES, ETC.) INSTALL 24 MIL THERM FLASH PENETRATION WRAP & BUTYL TAPE AS WELL AS WRB APRONS PER WATERPROOFING DETAILS.
- 22. THE BUILDING ENVELOPE SYSTEM SHALL BE A CONTINUOUS AIR-BARRIER SYSTEM IN ACCORDANCE WITH 2012 WASHINGTON ENERGY
- 23. AT CONCRETE CONSTRUCTION & COLD-JOINTS APPLY APPROVED DOUBLE LOCKING HYDROPHOBIC WATERSTOP CAPABLE OF 2-TIMES EXPANSION BY VOLUME. BASIS OF DESIGN IS ULTRASEAL P-201 BY ADEKA. CONCRETE SHALL BE CLEANED, TOOLED AND PRIMED BEFORE INSTALLING WATERSTOP MEDIUM.
- 24. ALL FASTENERS SHALL BE EITHER STAINLESS STEEL; OR DOUBLE-DIPPED, HOT-DIPPED OR HEAVEY-DIPPED GALVANIZED CONFORMING TO ASTM A153. ELECTRO-GALVANIZED FASTENERS MUST NOT BE USED UNDER ANY CIRCUMSTANCES.
- 25. UNDER SLAB VAPOR BARRIER AT NEW SLAB ON GRADE AREAS SHALL BE CLASS B, 15mil GEOMEMBRANE CONFORMING TO ASTM E-1745. BASIS OF DESIGN IS STEGO WRAP 15mil WITH STEGO TAPE, MANUFACTURED BY STEGO INDUSTRIES.
- 26. MAINTAIN A MINIMUM OF 6" SEPARATION BETWEEN FINISH GRADE AND FRAMING AND SIDING MATERIALS.
- 27. SLOPE ALL WEATHER-DECKS, WALKS AND PATIOS AWAY FROM THE BUILDING WITH A MINIMUM SLOPE OF 1/4" PER FOOT. INSTALL CRICKETS ON WEATHER-DECK SURFACES, WHERE NEEDED, TO ALLOW FOR PROPER SLOPE AND DRAINAGE. AT A MINIMUM 1/4" PER 1' SLOPE (U.O.N.) MUST BE PROVIDED TOWARD ROOF DRAINS & SCUPPERS.
- 28. WHOLE BUILDING AIR-LEAKAGE TESTING VIA BLOWER DOOR TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 WSEC. REFER TO "AIR BARRIER GENERAL NOTES" AND "ENERGY CODE NOTES" FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE OWNER SHALL ENGAGE A TESTING AGENCY TO PERFORM THE REQUIRED TESTING IN ACCORDANCE WITH 20'5 WSEC. TESTING SHALL BE IN COMPLIANCE WITH ASTM E-779 OR SIMILAR APPROVED TEST METHOD.
- 29. ANY DISCREPANCY NOTED BY THE CONTRACTOR MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. WHERE DISCREPANCY OCCURS BETWEEN VARIOUS CONTRACT DOCUMENTS, CONTRACTOR SHALL FOLLOW THE MOST STRINGENT REQUIREMENT FOR EACH CATEGORY.
- 30. CONTRACTOR SHALL SUPPLY AND INSTALL FLASHINGS AND COUNTER-FLASHINGS AT ALL TRANSITIONS AND JUNCTIONS PURSUANT TO THE REQUIREMENTS OF THE BUILDING CODE, INDUSTRY STANDARDS INCLUDING SMACNA, EVEN IF SUCH FLASHING IS NOT SPECIFICALLY CALLED OUT FOR IN A DETAIL PROVIDED FOR HEREIN.

. PLACE WINDOW ON 1/8" SHIMS TO PROVIDE DRAINAGE GAP BETWEEN WINDOW FRAME AND SILL PAN. ATTACH WINDOW PER MANUFACTURES RECOMMENDATIONS AT SILL AND JAMBS. 3. APPLY APPROVED SEALANT BEHIND NAIL FLANGES AT HEAD AND JAMBS.









ALTERNATE SILL FLASHING DETAIL:

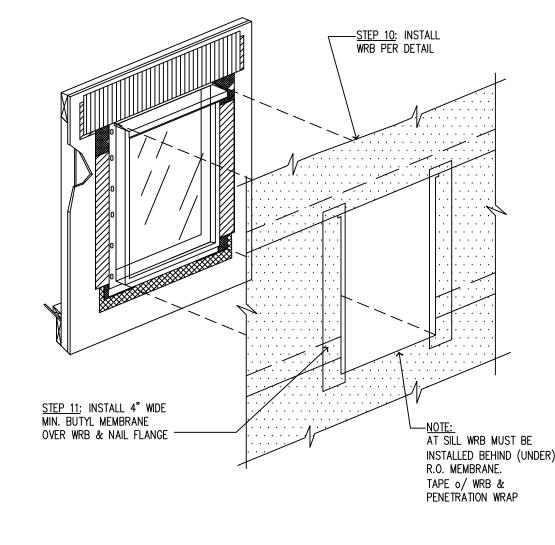
INSTALL PVC JAMB

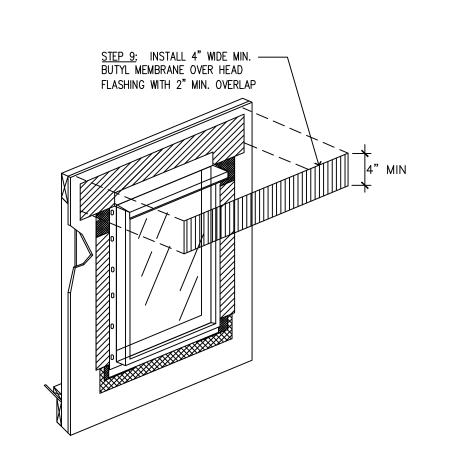
SILL GUARD SILL PAN

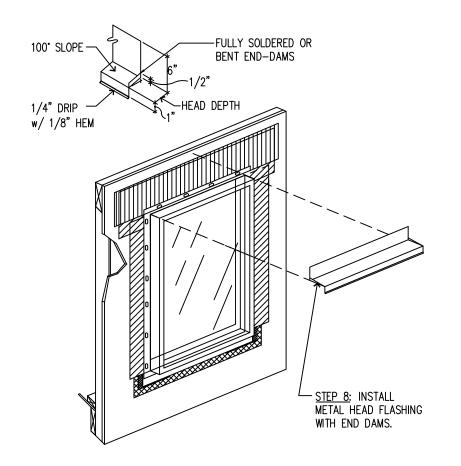
FLASHING W/ INTERIOR

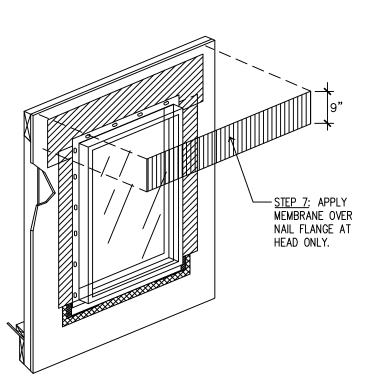
VERTICAL FLANGE.—

INSTALL PER MFR'S RECOMMENDATIONS









ALL PANS AT MASONRY TO BE STAINLESS STEEL OR 24 GA GALV. PRE-FINISHED.

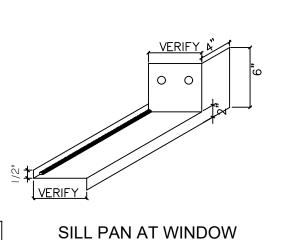
- 2. RESIDENTIAL WINDOW WALL SYSTEMS TO HAVE ALUMINUM PANS & FLASHINGS PER DETAILS TO MATCH WINDOW FRAME COLORS. 3. SEAL OR SOLDER JOINTS AT END- & BACK DAMS TO FORM A WATERTIGHT PAN ASSEMBLY. SEAL BACK TO END DAM TRANSITIONS.
- 4. COORDINATE BACK DAM HEIGHT WITH THRESHOLD AND/OR INTERIOR FINISHES PER ARCH. PLANS. 5. PROVIDE HEMMED EDGE AT ALL EXPOSED EDGES.

WRAP & WRB NOTE:

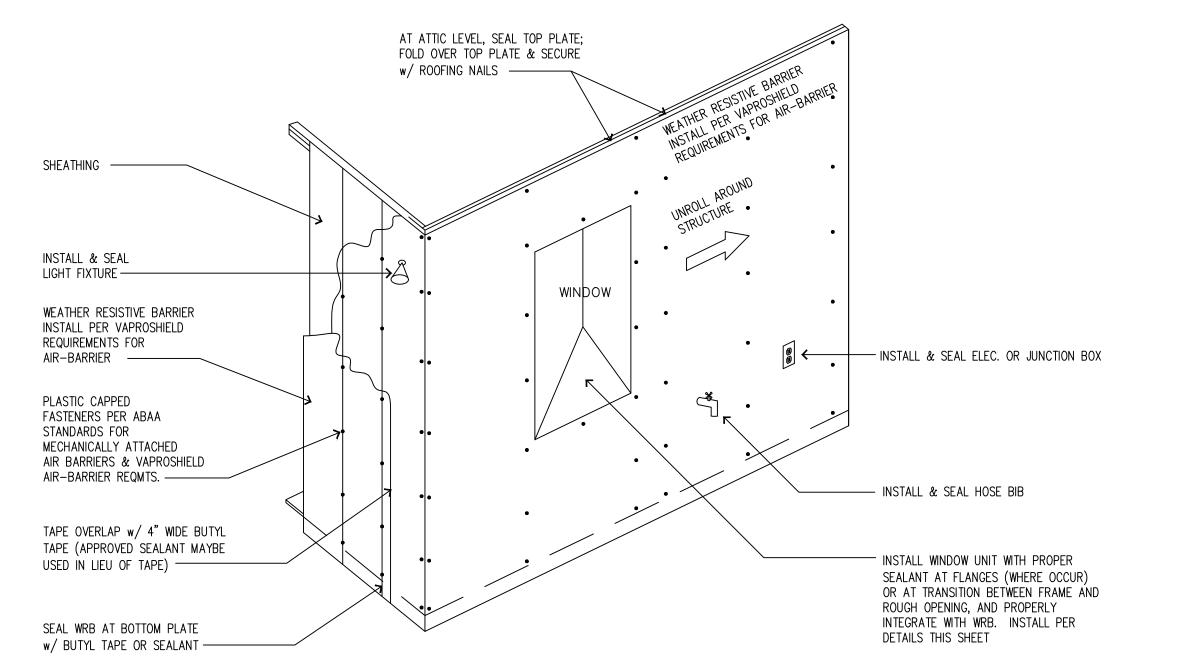
1. FASTEN WINDOW/DOOR WRAP & WRB PER WP DETAILS PROVIDED HEREIN WITH STAINLESS STEEL STAPLES w/ 7/16" CROWNS. . WHERE STEEL STUD FRAMING OCCURS, USE APPROVED ADHESIVE TO PROPERLY ATTACH WINDOW/DOOR WRAP THERETO.

3. WHERE CONCRETE SURFACES OCCUR, USE VAPROSHIELD S.A.M. MEMBRANE FOR WINDOW/DOOR WRAPS AND WRB. 4. WRAP PENETRATION WRAP INSIDE R.O. AND TAPE TO MAINTAIN AIR-BARRIER SYSTEM.

— DECK-TO-WALL FLASHING WHERE OCCURS SILL PAN AT SLIDING GLASS DOOR

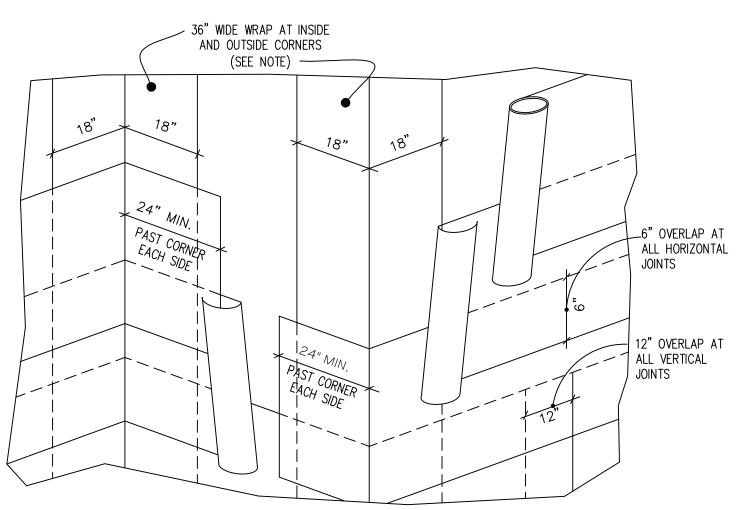


TYPICAL WINDOW WRAP SEQUENCE



THE WRB PER NOTE 13 PRIOR TO INSTALLATION OF FIELD WRB. 2. INSTALL WEATHER RESISTIVE BARRIER PER NOTE 13 IN WEATHERBOARD FASHION STARTING FROM THE BOTTOM OF THE WALL. ENSURE THAT THE EDGES OF THE LAYERS OF WRB ARE STAGGERED AT LEAST 6". TAPE ALL JOINTS OF WRB WITH 3" WIDE BUTYL TAPE AS APPROVED TO CREATE A COMPLETE AIR-BARRIER SYSTEM.

4. WHERE CONCRETE SURFACES OCCUR, INSTALL VAPROSHIELD S.A.M. THROUGHOUT.



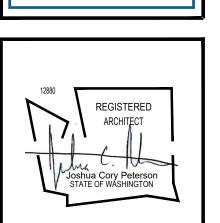
1. INSIDE & OUTSIDE CORNER WRAP; APPLY ONE LAYER OF 36" WIDE BREATHABLE MEMBRANE FROM THE SAME MANUFACTURER AS

WEATHER RESISTANT BARRIER (WRB)

ENVELOPE WATERPROOFING NOTES

CODE PROVISIONS.

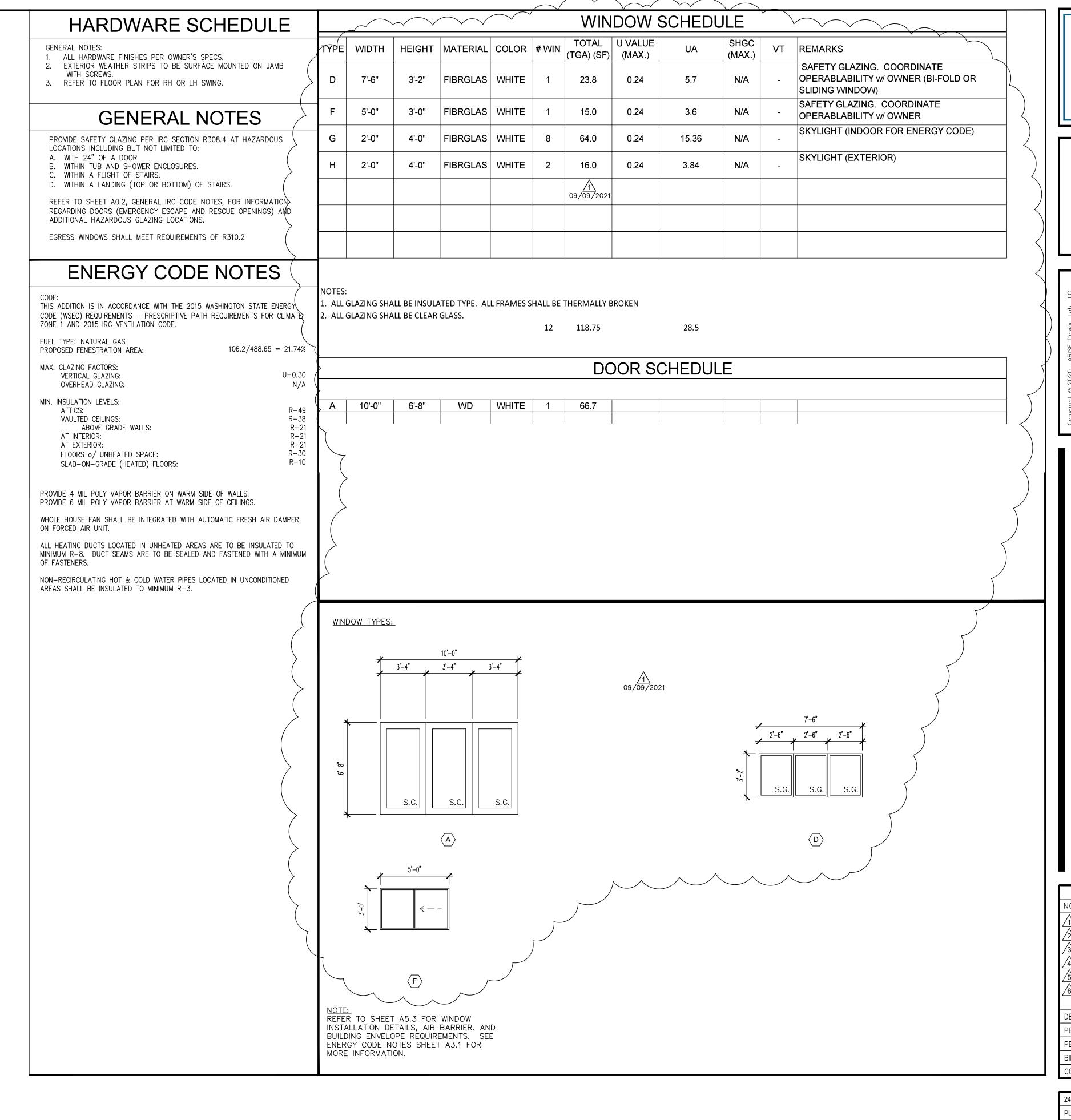
EXTERIOR AIR BARRIER SYSTEM



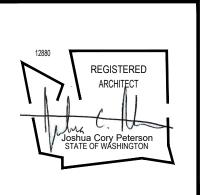
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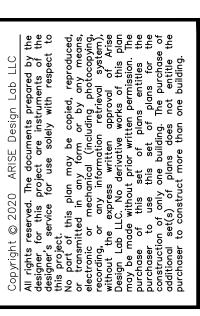
CONSTR. DOCS: AS NOTED 24"x36" SCALE: PLOT DATE: 09/09/202 A20-010 A5.3 CAD FILE: JOB NUMBER: A20-010 CHECKED: DRAWN: STATUS: UNDER CONSTRUCTION

WATERPROOFING & AIR **BARRIER NOTES & DETAILS**









BARNETT RESIDENCE ADDITION/REMODEL

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JOB NUMBE	R: A20-010
CHECKED:	JCP
DRAWN:	JCP
STATUS: U	NDER CONSTRUCTION

window schedule & energy code notes

A6.1

CODE: INTERNATIONAL BUILDING CODE (IBC)	2015
LOADINGS FLOOR LIVE LOAD DECK LIVE LOAD ROOF SNOW LOAD	40 PSF 60 PSF 25 PSF
WIND CRITERIA BUILDING CLASSIFICATION ULTIMATE WIND SPEED WIND EXPOSURE TOPOGRAPHIC FACTOR, Kzt	II 110 MPH B 1.6
SEISMIC CRITERIA SEISMIC RISK CATEGORY SPECTRAL RESPONSE COEFFICIENT, Ss SPECTRAL RESPONSE COEFFICIENT, S1 SEISMIC SITE CLASS SEISMIC DESIGN CATEGORY	II 1.46 0.51 D
STRUCTURAL DESCRIPTIONS	

STRUCTURAL DESCRIPTIONS

GENERAL CONDITIONS

THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS

ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

4. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.

WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION THAT, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.

7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

8. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.

9. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY AND IN CONFORMANCE WITH THE PROVISIONS OF PREVAILING CODE EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC) AND STANDARDS REFERENCED THEREIN.

10. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.

11. ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW.

STRUCTURAL DESIGN COMPLIES WITH SOILS REPORT PRODUCED BY:

FOOTING BEARING PRESSURE:

FOUNDATION

1500 PSF (ASSUMED)

LATERAL EARTH PRESSURE ON RETAINING WALLS N.A.

SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH SAID SOILS REPORT.

DIMENSIONAL LUMBER, ANCHOR BOLT AND NAILING SPECIFICATIONS

1. MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD

DIMENSIONAL LUMBER. BEAR STAMP OF WWPA.

2. MINIMUM DIMENSIONAL LUMBER GRADES TO BE:

LUMBER NOT NOTED HERE... DF #2 U.N.O

WALL STUDS, 2X, 3 X...... HF STUD GRADE WALL PLATES, 2X, 3X....... HF STANDARD GRADE U.N.O JOISTS, 2 X 6:..... HF #2 JOISTS, 2 X 8 AND UP...... DF #2 BEAMS, HEADERS, 6X DF #2 BEAMS, HEADERS, 4X...... DF #2, WWPA GRADING POSTS, 4X, 6X.... DF #2 U.N.O

3. PROVIDE STANDARD CUT WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD.

4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY THAT IS IN CONTACT WITH OR RESTING ON FOUNDATIONS SHALL BE PRESSURE-TREATED DOUGLAS FIR/ HEMFIR IN ACCORDANCE TO WITH AWPA U1 (PLANT/SHOP TREATMENT) AND M4 (FIELD TREATMENT) STANDARDS. ALL BEARING WALL PLATES SHALL HAVE 5/8" Ø x10" J-BOLTS PLACED AT MAXIMUM OF 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 4'-0" OC SPACING). PROVIDE BP PLATE WASHER AT ALL FOUNDATION SILL PLATE ANCHOR BOLTS. PROVIDE TWO ANCHOR BOLTS MINIMUM PER SECTION OF SILL. FOR NON-SHEARWALL, PLACE ANCHORS AT 48".

5. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.

6. NAILS: COMMON WIRE NAILS. NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1.

7. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 OZ OF ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)

8. ALL LUMBER WITH A LEAST DIMENSION OF 2" (NOMINAL) SHALL BE STAMPED "SURFACE-DRY" AND SHALL HAVE A MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NO MORE THAN 19 PERCENT. LUMBER WITH A LEAST DIMENSION OF 4" (NOMINAL) OR GREATER SHALL BE STAMPED "SURFACE-GREEN" AND AIR-DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19 PERCENT PRIOR TO ITS USE IN FRAMING THE STRUCTURE.

9. NOTCHING AND BORING OF BEAMS AND JOISTS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3) d. Nondestructive testing (NDT) of welded joints: see Commentary 1) Complete penetration groove welds 5/16" or greater in risk category III or IV 2) Complete penetration groove welds 5/16" or greater in risk category II 3) Thermally cut surfaces of access holes when material t > 2" 4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1 5) Fabricator's NDT reports when fabricator performs NDT 6. Structural steel bolting: a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1) b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2) 1) Pre-tensioned and slip-critical joints a) Turn-of-nut with matching markings b) Direct tension indicator c) Twist-off type tension control bolt d) Turn-of-nut without matching markings Y N e) Calibrated wrench 2) Snug-tight joints c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3) 7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1 1705.2.2 Steel Construction Other Than Structural Steel 1. Material verification of cold-formed steel deck: a. Identification markings b. Manufacturer's certified test reports 2. Connection of cold-formed steel deck to supporting structure: a. Welding b. Other fasteners (in accordance with AISC 360, Section N6) 1) Verify fasteners are in conformance with approved submittal 2) Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations 3. Reinforcing steel a. Verification of weldability of steel other than ASTM A706 b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special concrete structural walls and shear reinforcement c. Shear reinforcement Y N d. Other reinforcing steel 4. Cold-formed steel trusses spanning 60 feet or greater Y N a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package 1705.3 Concrete Construction 1. Inspection of reinforcing steel installation (see 1705.2.2 for welding) 2. Inspection of prestressing steel installation Y N 3. Inspection of anchors cast in concrete where allowable loads have been increased per section 1908.5 or where strength design is used 4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment 5. Verify use of approved design mix 6. Fresh concrete sampling, perform slump and air content tests and determine temperature of 7. Inspection of concrete and shotcrete placement for proper application techniques 8. Inspection for maintenance of specified curing temperature and techniques Inspection of prestressed concrete: a. Application of prestressing force b. Grouting of bonded prestressing tendons in the seismic-force-resisting system 10. Erection of precast concrete members a. Inspect in accordance with construction documents b. Perform inspections of welding and bolting in accordance with Section 1705.2 11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs 12. Inspection of formwork for shape, lines, location and dimensions 13. Concrete strength testing and verification of compliance with construction documents 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional. 2. The list of Special Inspectors may be submitted as a separate document, if noted so above. 3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2 4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element. 5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7. CONCRETE AND REINFORCING CONCRETE SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS **EXCEPT AS MODIFIED BELOW:** ACI-301 - "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI-318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI-305R - "HOT WEATHER CONCRETING" ACI-306R - "COLD WEATHER CONCRETING" ACI-304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE" CONCRETE MIX SPECIFICATIONS **LOCATION** COMP. SRENGTH W/C RATIO AIR CONTENT REMARK FOOTING 2500 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE) SLAB ON GRADE 2500 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE) FOUNDATION WALL 2500 PSI (MIN. OF 5.5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE) **TOPPING** TOTAL AIR CONTENT IS SPECIFIED IN THE TABLE ABOVE. AIR CONTENT TOLERANCE SHALL BE ± 1% AND SHALL BE MEASURED AT THE POINT OF PLACEMENT. (AFTER PUMPING IF APPLICABLE). ALL CONCRETE EXPOSED TO THE WEATHER SHALL HAVE AN APPROVED

REQUIRED? (Y/N) MATERIAL / ACTIVITY

Y N

1704.2.5 Inspection of Fabricators

1705.2 Steel Construction

5. Structural steel welding:

Verify fabrication/quality control procedures

2. Material verification of structural steel

comply with construction documents

tasks listed in AISC 360, Table N5.4-1)

tasks listed in AISC 360. Table N5.4-1)

paragraph 3.2 for compliance with construction documents)

1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's

1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N,

a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA

b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA

3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors) 4. Verify member locations, braces, stiffeners, and application of joint details at each connection

ADMIXTURE TO ENTRAIN AIR - 5% TOTAL AIR REQUIRED. CONCRETE THAT CAN BE SUBJECTED TO FREEZING AND THAWING DURING CONSTRUCTION SHALL BE AIR ENTRAINED.

3. PROVIDE GRADE 60 KSI (A615) FOR CONCRETE STEEL REINFORCING

Collegiones V V V V V V V V V	LATENT	KEQUIKE	D: (1/14)	WATERIAL / ACTIVITY	EXILIT
Per	Periodic				
Process		Υ	N	(A) Level A, B and C Quality Assurance: 1. Verify compliance with approved submittals	Periodic
				(B) Level B Quality Assurance:	
1		Y	N	(C) Level C Quality Assurance:	Periodic
Second				1. Verification of f'm and f'AAC prior to construction and for every 5,000 SF during construction	
1			N	grout other than self-consolidating grout, as delivered to the project site	
Services (1997) 1 1 1 1 1 1 1 1 1	ach submittal	Υ	N	3. Verify placement of masonry units	Periodic
The content of the	Periodic	Υ	N		Continuous
The set of Publishers and Publishers	Continuous	V	NI	to the project	Daviadia
Service of Process or steed (4) Yes 1, 2 A by Cypes Agree and showed with recession and post-energy makines of processing which was all processing the processing makines of the steed of the company	reriodic				
Absorbed ()	Dhaania an Barfarra as rated (4)	Υ		4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and	Periodic
Joseph C. P. 1	Diserve or Perform as noted (4)	Υ	N		Periodic
Disease of Federal and Section 19 1 No. 17, Medical and section for the part of the section 19 1 No. 18 1 No. 19 1 No. 19 1 No. 19 No.	Observe (4)	Υ		6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages	
A Mary Section of the	Observe or Perform as noted (4)	Υ	N	7. Verify grout space prior to grouting	
Frenche ()	· ,	V			
Process	Periodic	Ϋ́Υ			
February C. 1987 and the protection of the control		Υ	N		
1			N		
Accordance	Each submittal (5)	Υ	N		Periodic
Security	Observe or Perform as noted (4)	Υ	N	13. Verify application and measurement of prestressing force	Continuous
March Marc	Channia (4)	Υ	N	14. Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF of	Continuous
Services V V V V V V V V V V	Diserve (4)	Υ	N		Level B - Periodic
New York Services Ser		V	NI	5000 SF of AAC masonry)	
Communicacy Period Communicacy P				10. Verify properties of thin-bed mortar forAAC masonry (after the first 5000 SF of AAC masonry) 17. Verify properties of thin-bed mortar forAAC masonry (after the first 5000 SF of AAC masonry)	Level B - Periodic
Freedoct Y N 1 Decompreparation of years 1 Decompress 1	Continuous				Level C - Continuous
President (President) (Preside		Y	IN	то. Prepare grout and mortar specimens	
176.5 176.6 176.		Υ	N	19. Observe preparation of prisms	Level B - Periodic
Personal	Observe or Perform as noted (4)			1705.5 Wood Construction	Level C - Continuous
Periods	· /	Υ	N	1. Inspection of the fabrication process of wood structural elements and assemblies in accordance	Periodic
sperior de la control de la comment de la co		Υ	N		Periodic
resistantial services of stage of statement and faright, number of discovery times, and that spacing pickeen's between seal resistance with a spacing pickeen's between seal resistance with gardinary and permanent of the property of the stage of the	Poriodia			approved building plans	
In a size of any margins agree with agreement surface planes. Financial Communication of the second		Y	N		renoaic
resident/contain part sequences from the supprocess burst submittal package remonds Periods				line and at edge margins agree with approved building plans	D : "
The second state of the se	Periodic	Y	N		Periodic
1. Verify implications or purpose in a process of the controlled in the controlled in process of the controlled in the controlled in process of the controlled in the controlled					
Periodic Y N N 2 - Verify receivabling are excluded by proper degit and his year earther proper material. Periodic Perio	Periodic				
Continuous V N N 2 Very use of proper materials, densities, and life thichnesses during placement and compaction of Continuous Contributions (Continuous Contributions) (V N N 1990) Ferrodic Product V N N N 1 Very Nemonit materials a lace and fereptic confly with requirements Continuous Contributions (V N N N N 1 Very Nemonit materials a lace and fereptic confly with requirements Continuous Contributions (V N N N 1 Very Nemonit materials a lace and fereptic confly with requirements Continuous Contributions (V N N N 1 Very Nemonit materials a lace and fereptic confly with requirements Continuous Contributions (V N N N 1 Very Nemonit materials a lace and fereptic confly with requirements Contributions Contributions (V N N 1 Very N Very N N 1 Very N 1	N	•		Verify excavations are extended to proper depth and have reached proper material.	
continuous Y N Southern of controlled fill observe subgrade and verify that alte has been prepared protection. Y N Southern of controlled fill observe subgrade and verify that alte has been prepared protection. Y N Southern of controlled fill observe subgrade and verify that alte has been prepared protection. Y N Southern of controlled fill observe subgrade and verify that alte has been prepared protection. Y N Southern of controlled fill observe subgrade and verify that alte has been prepared protection. Y N Southern of controlled fill observe subgrade and verify that alter has been prepared controlled fill observe subgrade and verify that alter has been prepared controlled fill observe subgrade and verify that alter has been prepared and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to controlled fill observe subgrade and verify that alter has been prepared to control observe subgrade and verify that alter has been prepared to control observe subgrade and verify that alter has been prepared to control observe subgrade for controlled to control observe subgrade and verify that alter has been prepared to control observe subgrade and verify that alter that the control observe control observe control observe control observe subgrade and verify that alter has been prepared to control observe subgrade and verify that alter has been prepared to control observe and prepared to control observe subgrade and verify that alter has been prepared to control observe and prepared to control observe subgrade and verify that alter that the control observe subgrade and verify that alter has been prepared to subgrade and verify that the prepared to subgrade and veri					
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Transport of the control of the cont		Υ	N		Periodic
V N N 1 Vertify element materials, sizes and lengths compared settle afterents and country determination load sets, as required Continuous Cont					. 6.166.16
Periodic Per	Periodic	Υ	N		Continuous
Periodic Y N N S Service placement locations and plumbness, confirm type and size of harmmer, record number of blows per foot of penetration of determine required seling napshoty, record type and blow selection of the protection in accordance selection in a concrete learnest and concrete filed extentions in advised selection of the protection of the pr		Ý	N	2. Determine capacities of test elements and conduct additional load tests, as required	Continuous
Down per foot of penetration, determine required penetrations to achieve design capacity, record tip and but referrables and course tracement required penetrations to achieve design capacity, record to construction determined and course flexible understook per social inspections per Section 1705.2 Periodic or as required by the research report issued by an approved source selection and countries flexible understook per social inspections per Section per Section 1705.3 Periodic Continuous Preside Y N N 1, For spacialty elements, perform additional inspections as determined by the registered design professional in exponents in exponents of there is no contracted flexible understood documents Periodic N N N 1, Observe drilling operations and maintain complete and accourse records for each element Continuous Preside Y N N 1, Observe drilling operations and maintain complete and accourse records for each element Continuous Continuous Preside Y N N 1, Observe drilling operations and maintain complete and accourse records for each element Continuous Continuous Continuous Preside Y N N 1, Observe drilling operations and maintain complete and accourse records for each element Continuous Preside Y N N 2, Very Explanation 1997, President Continuous and plumbness continue for designation of designation of designation of designation of the design given and designation of designati	Periodic				
Periodic or as required by the research report issued by an Y N S F. For steel elements, perform additional inspections per Section 1705.2 See Section 1705.2 See Section 1705.2 See Section 1705.2 See Section 1705.3 Septimized diameters and concrete elements and concrete elements perform additional inspections as determined by the registered design professional for responsible charge professional in accordance with the construction documents of the responsibility of the resp	Periodic		14	blows per foot of penetration, determine required penetrations to achieve design capacity, record tip	Continuodo
Periodic or as required by the research report issued by an y v v v v v v v v v v v v v v v v v v	Continuous	Υ	N		See Section 1705.2
7				6. For concrete elements and concrete-filled elements, perform additional inspections per Section	
professional in responsible charge professional responsibility of the professional res	approved source	Υ	N	11 7 7 17	In accordance with construction documents
1705.8 Cast-in-Place Deep Foundations		•		professional in responsible charge	
To 1908 de Sast-in-Place Deep Foundations Periodic 9 N N 1. Observe d'illing operations and plumbress, commit element diameters, pell diameters (if applicable) and adequate end-bearing strata capacity. Peccord concrete or grout volumes Continuous Contin		Υ	N	8. Perform additional inspections and tests in accordance with the construction documents	In accordance with construction documents
Continuous PY N 1. Observe drilling operations and maintain complete and accurate records for each element Continuous Con					
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REQUIRED? (Y/N) MATERIAL / ACTIVITY

REQUIREMENTS. ALL CUT, REPAIRED AND EXPOSED SURFACE SHALL BE PAINTED WITH (2) COAT OF 95% ZINC RICH PAINT PER ASTM A780. COLOR TO MATCH EXISTING.

STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:

EXTENT

TUBE COLUMNS: ASTM A500, GRADE B (Fy = 46 KSI) WIDE FLANGE COLUMNS / BEAWASTM 572 GR50 SCHEDULE 40, CONFORMING TO ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI.) STEEL PIPE:

ALL OTHER STEEL: ASTM A36 (Fy = 36 KSI) OR ASTM A992 ASTM A307 (WOOD/STEEL CONN) BOLTS: ASTM A325/A490 WITH LOCK WASHERS (STEEL/STEEL AND STEEL/CONC CONN) BOLTS: ANCHOR BOLTS: ASTM A307 (WOOD FRAMING)

ASTM A325 (STEEL FRAMING) ANCHOR BOLTS: ALL SLIP CRITICAL CONNECTIONS SHALL BE ASTM A325 BOLTS AND SHALL BE ENGINEER-APPROVED, SELF-LOAD

INDICATING TYPES, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. WELDS NOT SPECIFIED ARE TO BE 1/4" CONTINUOUS FILLET MINIMUM. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70 ELECTRODES. ALL WELDING SHALL CONFORM TO THE AWS CODES, AND SHALL BE BY CERTIFIED WELDERS. WELDS NOT SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES.

DRAWING LIST				
SHEET NUMBER	SHEET NAME	ISSUE DATE		
S-0	GENERAL NOTES AND SPECIFICATIONS	12-09-20		
S-1	FRAMING PLANS	08-13-21		
S-2	FRAMING PLANS	08-13-21		
S-3	FRAMING DETAILS	08-13-21		
Crond total: 4				

EXTENT

Grand total: 4



425-318-7047 (O)

425-318-0031 (C)

BARNETT

7530 86TH AVE SE, MERCER ISLAND, WA

DRAWING INFO

| ISSUE DATE | 12-09-20

ISSUED FOR PERMIT

PROJECT NO. 20201

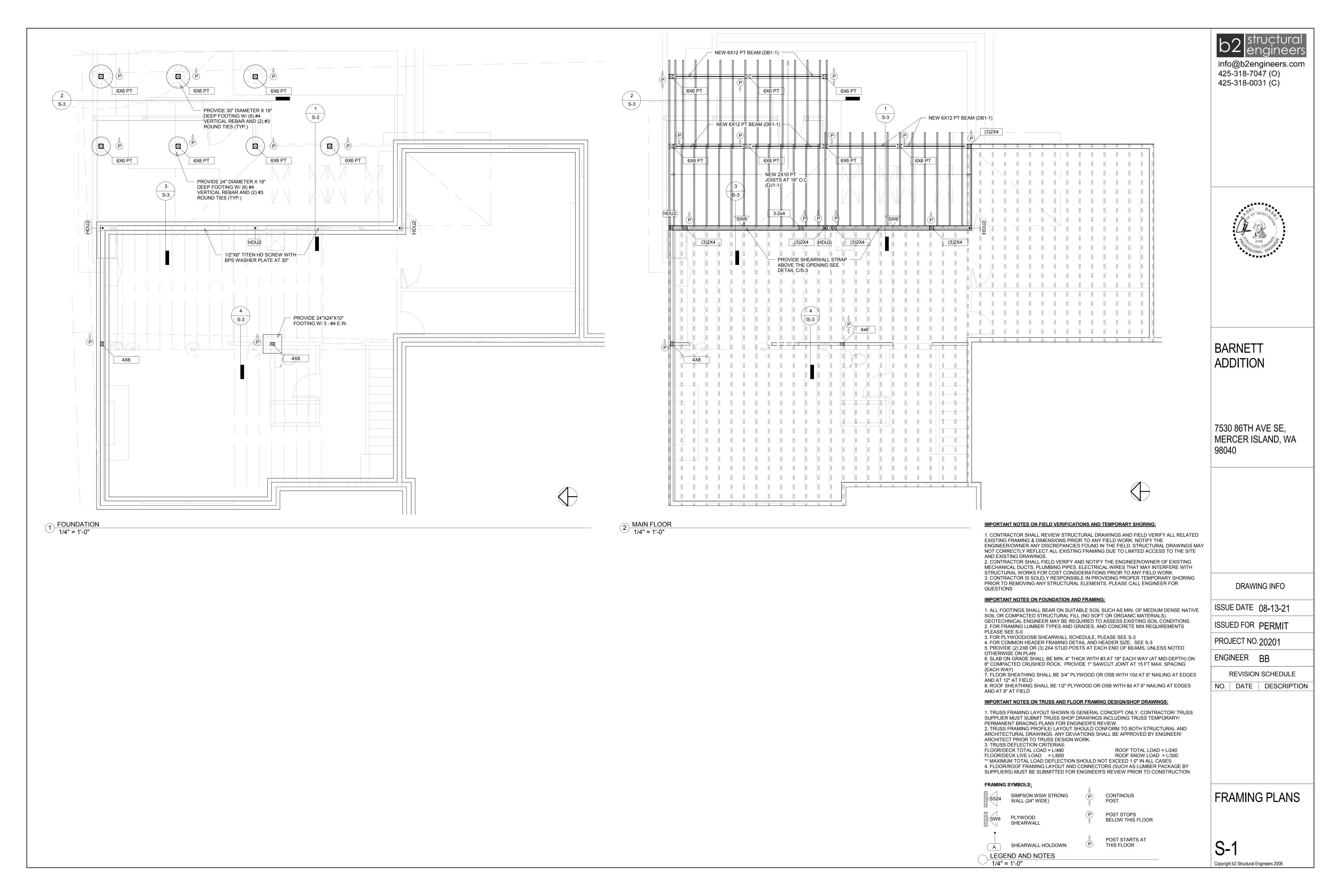
ENGINEER BB

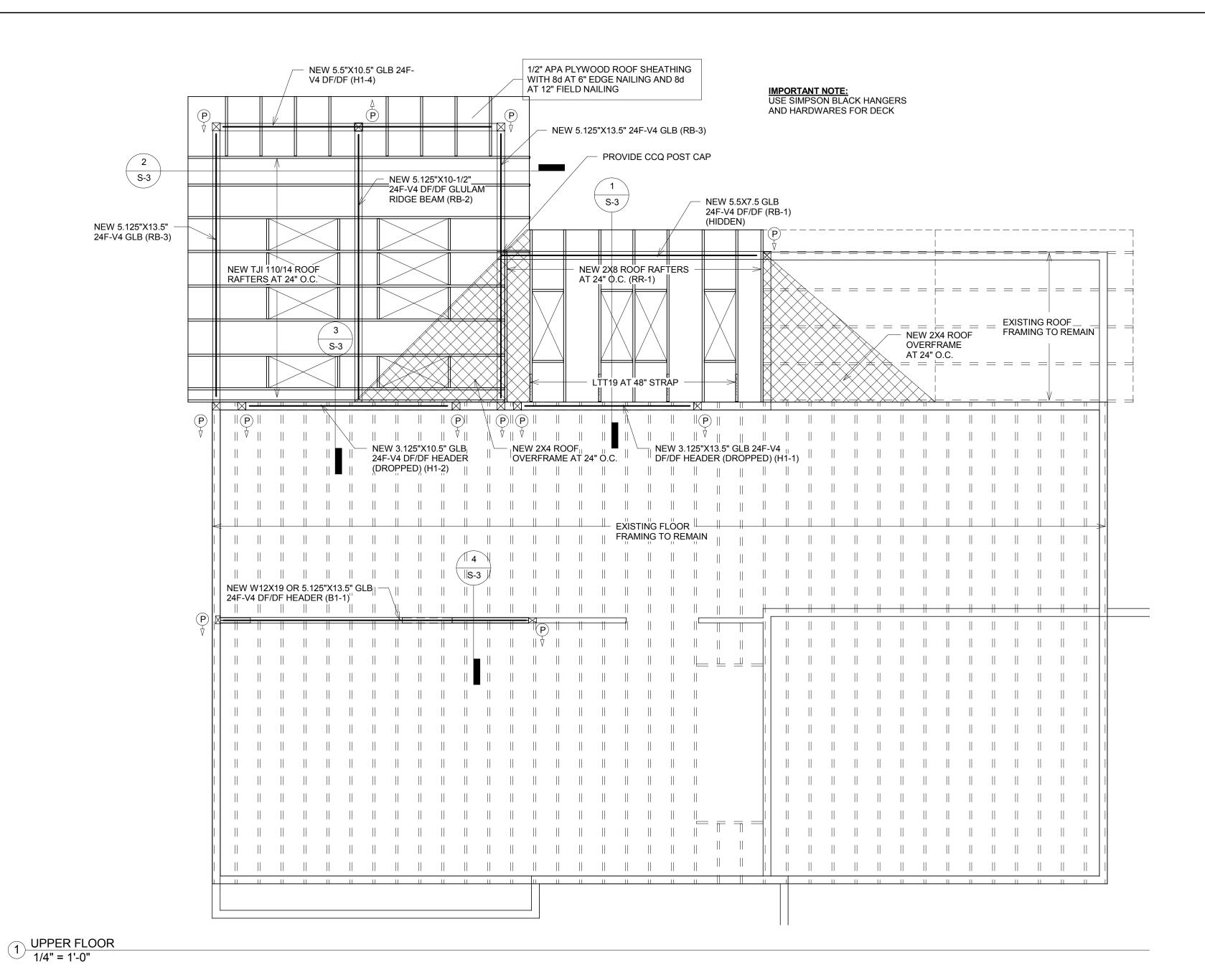
REVISION SCHEDULE

NO. DATE DESCRIPTION

GENERAL NOTES SPECIFICATIONS

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b2 structural engineers info@b2engineers.com

425-318-7047 (O) 425-318-0031 (C)



BARNETT ADDITION

7530 86TH AVE SE, MERCER ISLAND, WA 98040

DRAWING INFO

ISSUE DATE 08-13-21

ISSUED FOR PERMIT

PROJECT NO. 20201

ENGINEER BB

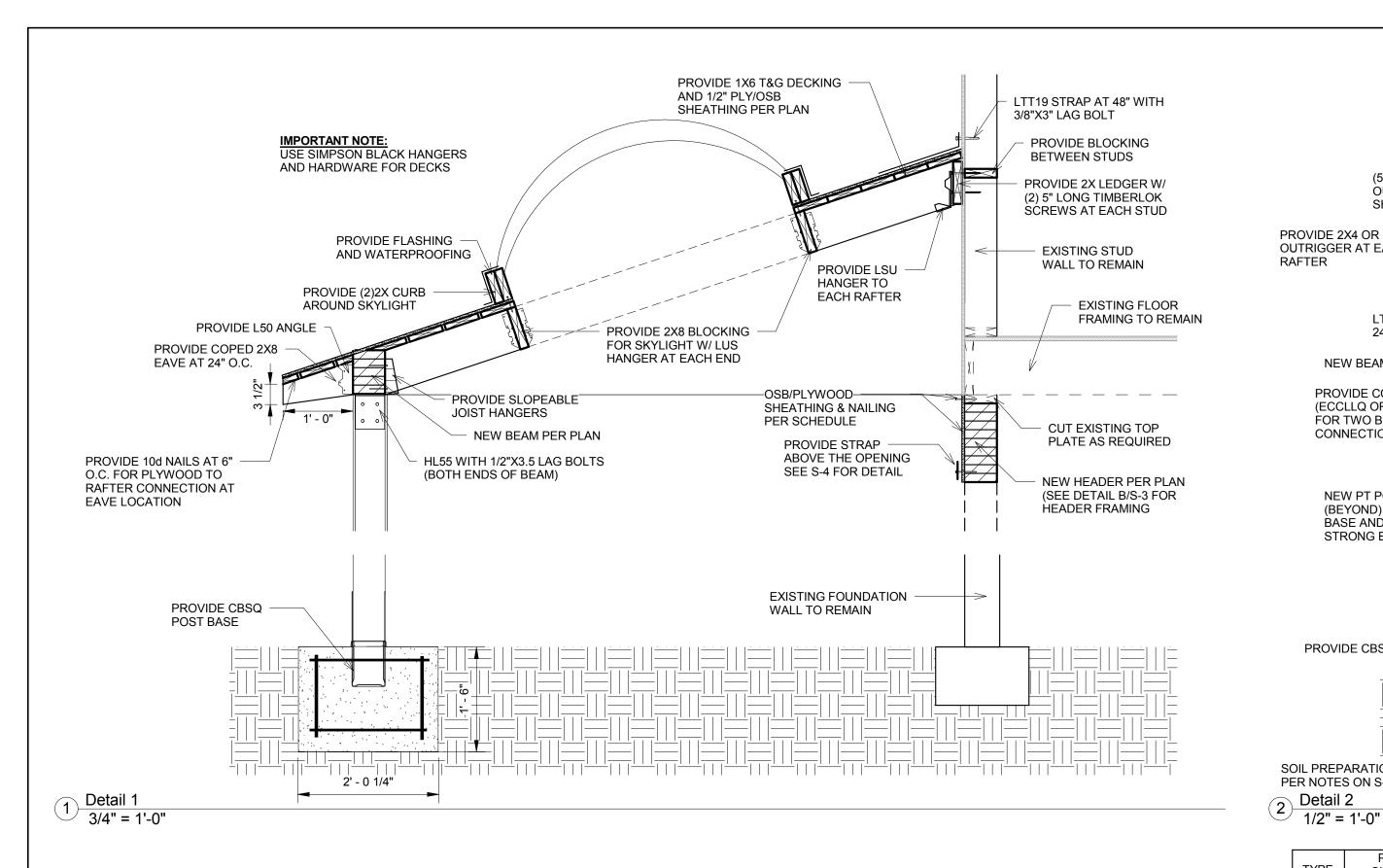
REVISION SCHEDULE

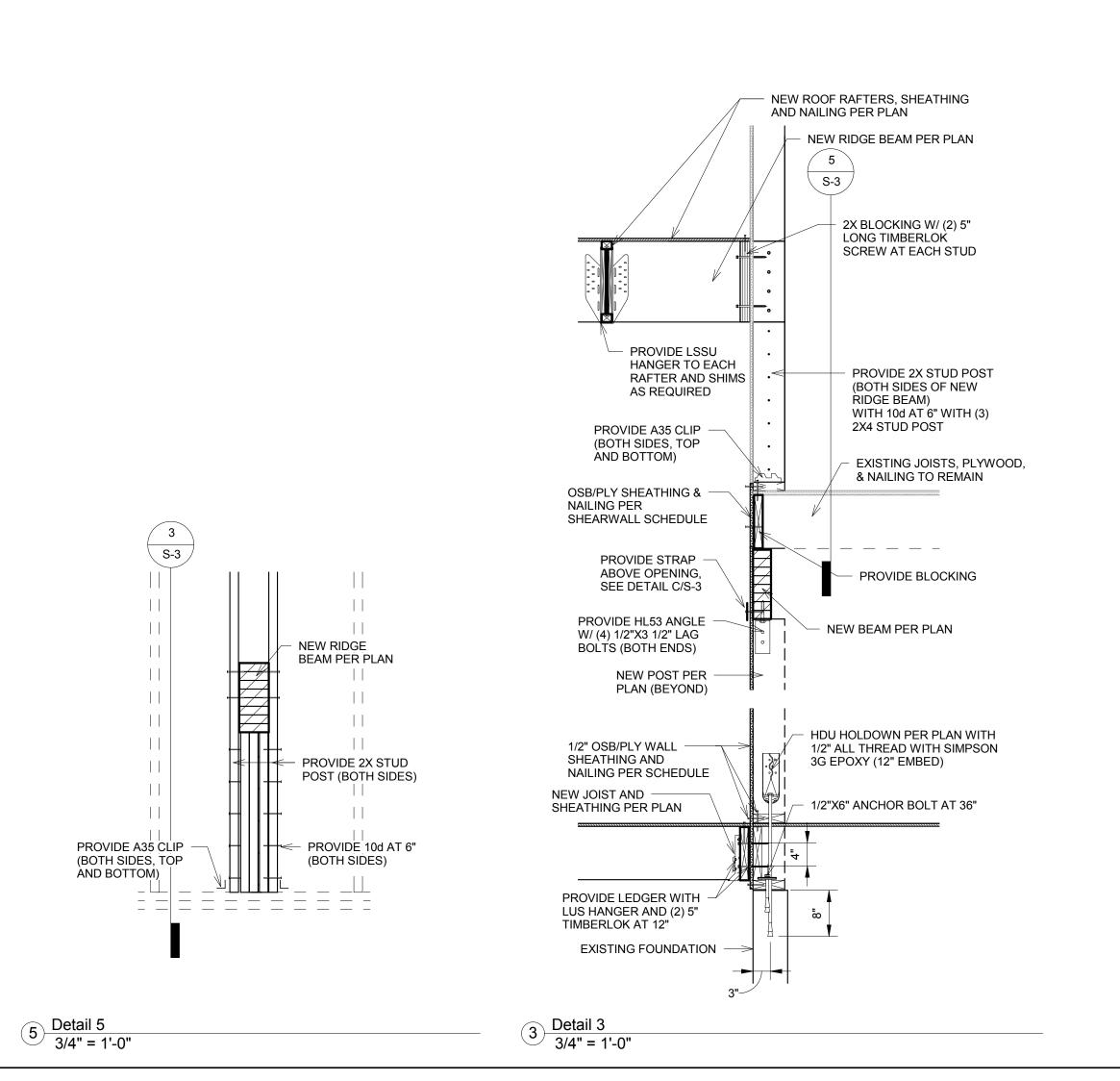
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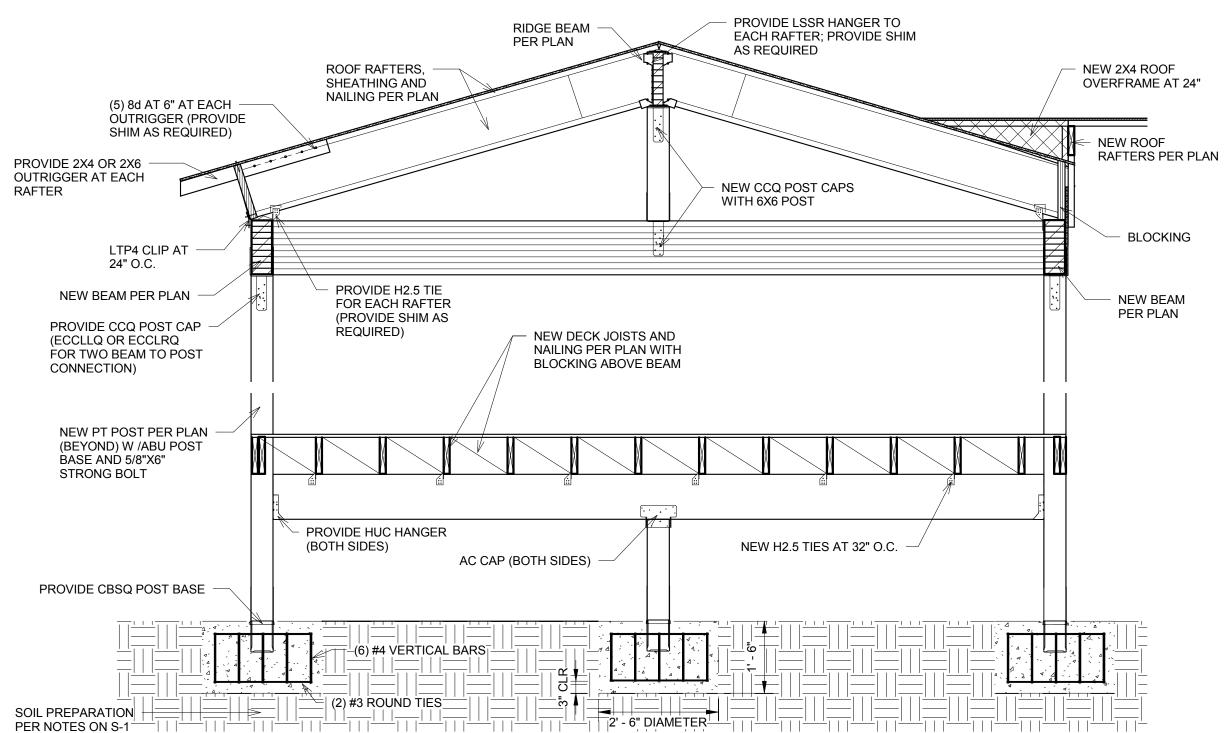
FRAMING PLANS

S-2

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	PLYWOOD OR OSB	PANEL EDGE	PANEL EDGE	ANCHOR BOLTS AT	TOP/SILL PLATE TO BLOCKING/	BOTTOM PLATE TO	CAPACITY (LRFD)
TYPE	SHEATHING (NOTE 7)	NAILING (NOTE 4)	STUDS AND BLKG	SILL PLATE (NOTE 8)	RIM (NOTE 9)	BLOCKING/ RIM (NOTE 4)	(SEISMIC/WIND)
SW6	15/32" PLY/OSB ONE SIDE	10d COM AT 6"	2x	5/8" AT 36" O.C2x	SIMPSON LTP4 AT 24" O.C.	16d COM AT 6" O.CNARROW	496 PLF/ 696 PLF
SW4	15/32" PLY/OSB ONE SIDE	10d COM AT 4"	2x (SEE NOTE 5)	5/8" AT 24" O.C2x	SIMPSON LTP4 AT 16" O.C.	16d COM AT 4" O.CNARROW	736 PLF/ 1032 PLF
SW3_	15/32" PLY/OSB ONE SIDE	10d COM AT 3"	3x	5/8" AT 18" O.C2x	SIMPSON LTP4 AT 12" O.C.	16d COM AT 3" O.CWIDE	960 PLF/ 1344 PLF
SW2	15/32" PLY/OSB ONE SIDE	10d COM AT 2"	3x	5/8" AT 12" O.C2x	SIMPSON LTP4 AT 8" O.C.	16d COM AT 2" O.CWIDE	1232 PLF/ 1724 PLF
SW44	15/32" PLY/OSB TWO SIDES	10d COM AT 4"	2x	5/8" AT 18" O.C3x	SIMPSON LTP4 AT 16" O.C. B.S.	(2) 16d COM AT 4" O.CWIDE	1472 PLF/ 2064 PLF
SW33_	15/32" PLY/OSB TWO SIDES	10d COM AT 3"	3x	5/8" AT 16" O.C3x	SIMPSON LTP4 AT 12" O.C. B.S.	(2) 16d COM AT 3" O.CWIDE	1920 PLF/ 2688 PLF
SW22	15/32" PLY/OSB TWO SIDES	10d COM AT 2"	3x	5/8"AT 12" O C -3x	SIMPSON LTP4 AT 8" O.C. B.S.	(2) 16d COM AT 2" O.CWIDE	2464 PLF/ 3448 PLF

SHEARWALL SCHEDULE NOTES:

A SHEARWALL SCHEDULE 3/4" = 1'-0"

DBL STUD BELOW -

TRIMMER ABOVE

SEE HEADER

(2) 2x6 SILL

(B) TYP. WALL OPENING FRAMING

SCHEDULE

- 1. ALL PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING AT WALLS 2. NAIL SHEATHING TO INTERMEDIATE SUPPORTS/ FIELD NAILING 10d AT 12" O.C.
- 3. ALL NAILS INTO 3x MEMBERS SHALL BE STAGGERED.
- (2)2x STUDS MAY BE USED IN LIEU OF 3x STUDS AT PANEL JOINTS.
- NAIL STUDS TOGETHER W/2 ROWS 16d COMMON AT 6" O.C. AT SINGLE SIDE SHEATHING AND NAIL WITH 2 ROWS OF 16d COMMON AT 3" O.C. AT DOUBLE SHEATHED WALLS.
- 4. COM DENOTES COMMON NAILS. MIN. NAIL PENETRATION INTO PLATE, RIM OR BLOCKING SHALL BE 1 5/8". STAGGER BOTTOM PLATE NAILING
- 5. FOR SHEARWALL SW4, ALL FRAMING MEMBERS RECEIVING EDGE NAILINGS FROM ABUTTING PANELS SHALL BE 3X OR (2) 2X NAILED TOGETHER WITH 16d AT 6"
- 6. WHERE SHEATHING IS APPLIED TO BOTH SIDES OF WALL, OFFSET PANEL EDGES TO FALL ON DIFFERENT STUDS. 7. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF WALLS NOTED ON PLAN.
- PROVIDE HOLDOWNS PER PLAN AT EACH END OF WALL, UNO. PROVIDE (2) 2X STUDS AT ENDS OF ALL SHEARWALL. FACE NAIL MULTIPLE STUDS WITH 16d AT 12" PROVIDE PANEL EDGE NAILING IN EACH HOLDOWN STUD AT END OF WALL.
- B. ALL FOUNDATION SILL PLATES SHALL BE PT MEMBERS AND THE ANCHOR BOLTS SHALL HAVE MIN. OF 7"
- EMBEDMENT WITH 1/4" x 3" x 3" PLATE WASHER OR SIMPSON'S BP/ BPS PLATE. END OF WALL ANCHOR BOLTS SHALL BE LOCATED MAX 12" AND MIN 5" FROM END OF THE PLATE.
- 9. WHERE NOTED IN DETAILS, USE SIMPSON A35 IN LIEU OF LTP4 PLATES SPACE AT 2/3 OF LTP4 SPACING.

SIMPSON HOLDOWN	SIMPSON ANCHOR BOLTS*	SIMPSON EPOXY ALL THREAD ANCH
HDU2	SSTB16 (5/8"ANCHOR WITH 12 5/8" MIN. EMBED.)	5/8" (12" EMBED WITH SET-XP)
HDU4	SB 5/8X 24 (5/8"ANCHOR WITH 18" MIN. EMBED.)	5/8" (14" EMBED WITH SET-XP)
HDU5	SB 5/8X 24 (5/8"ANCHOR WITH 18" MIN. EMBED.)	5/8" (16" EMBED WITH SET-XP)
HDU8	SB 7/8X 24 (7/8"ANCHOR WITH 18" MIN. EMBED.)	
HDU11	SB 1X 30 (1" ANCHOR WITH 24" MIN. EMBED.)	* ALL ANCHORS SHALL BE 2.5" M
HDU14	SB 1X 30 (1" ANCHOR WITH 24" MIN. EMBED.)	FROM EDGE OF CONCRETE WA

SOLID 2x4 BLKG (VERT GRAIN)

FROM EDGE OF CONCRETE WALL

2x4 TO MATCH AREA OF

STUDS ABOVE

1 TRIMMER AND 2 KING STUD NAILED TOGETHER OR POST PER PLAN

OPENING

4 FT MAX.

HEADER

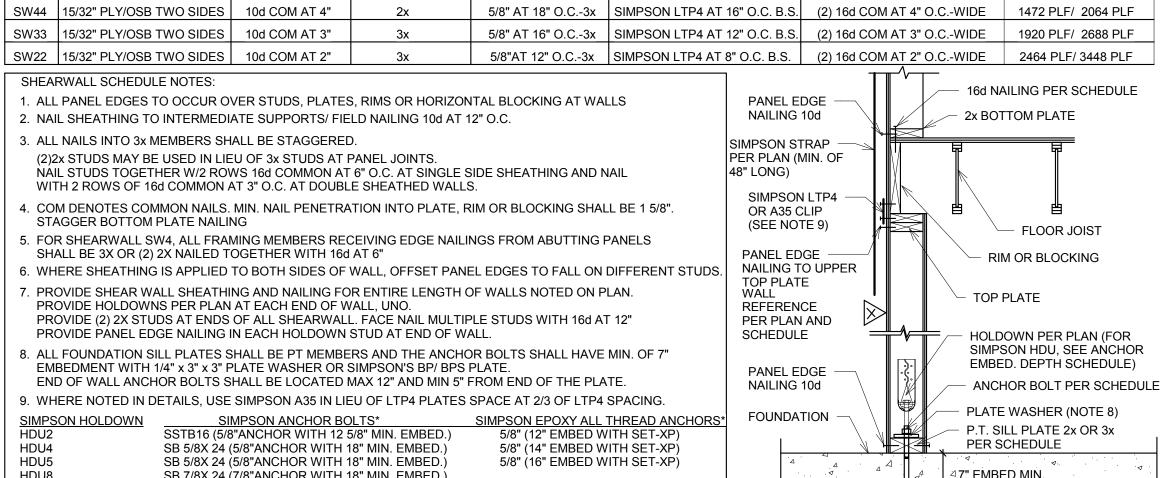
4X8 DF #2 U.N.O

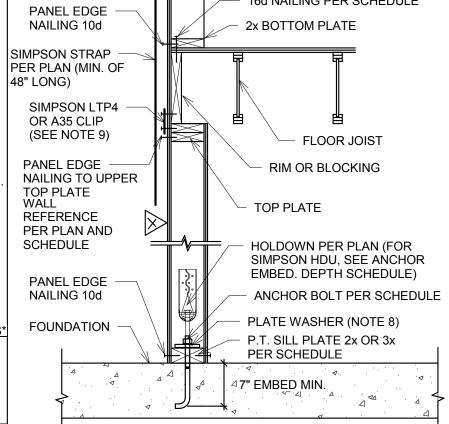
EA END

NOTE:

AT STUD/PLATE

CONNECTION, PROVIDE







PROVIDE BLOCKING

EXISTING FLOOR

PROVIDE DOUBLE

NEW POST

PROVIDE L30 ANGLE

PROVIDE ABU POST BASE &

5/8"X5 1/2" STRONG BOLT 2

(BOTH SIDES)

BLOCKING UNDER

NEW BEAM

PER PLAN

FRAMING TO REMAIN

BETWEEN JOISTS

(TOE NAILED TO THE

NEW BEAM BELOW)

PROVIDE HL53 ANGLE

L30 ANGLE (BOTH

EXISTING FLOOR

SIDES OF THE POST)

FRAMING TO REMAIN

3 - #4 E.W. -

Detail 4

[™] 3/4" = 1'-0"

NEW POST

PER PLAN

SOIL PREPARATIONS—PER NOTES ON S-1

(BOTH ENDS) W/ 1/2" THROUGH BOLT

DRAWING INFO

BARNETT

ADDITION

7530 86TH AVE SE,

MERCER ISLAND, WA

ISSUE DATE 08-13-21

info@b2engineers.com

425-318-7047 (O)

425-318-0031 (C)

ISSUED FOR PERMIT

PROJECT NO. 20201

ENGINEER BB

REVISION SCHEDULE NO. DATE DESCRIPTION

FRAMING DETAILS

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SHEATHING AND NAILING _ (2) 2x6 BLKG PER SHEARWALL SCHEDULE OR FLAT BLOCKING BEHIND STRAP TYP. 2x6 FILLER TO R.O. AS REQUIRED EXTEND STRAP THE WHOLE LENGTH OF CS14 STRAP (ABOVE & SHEARWALL **BELOW WALL OPENING)** FULL LENGTH OF THE PANEL EDGE NAILING WALL SHEATHING ALONG KING STUD (1 1/2" MIN OR 2" MAX FULL LENGTH FROM ROUGH OPENING)

(4) 8d TOENAIL OR (2) 16d END NAIL $\bigcirc \frac{\text{SHEAR WALL OPENING STRAPPING}}{3/4" = 1'-0"}$