ABBREVIATIONS

GROUND FAULT

INTERRUPTER

B BV C CT D DD D D F F F G L L T P N P P L X B P P C B B H U U	AMPS ANCHOR BOLT ABOVE ASPHALT CONCRETE AIR CONDITIONING ACOUSTICAL TILE AREA DRAIN ADDITION(AL) ADHESIVE ADJUSTABLE AMP RATING FUSE ABOVE FINISH FLOOR AGGREGATE ALUMINUM ALTERNATE ACCESS PANEL ASSESSOR PARCEL # APPLIANCE APPROXIMATE ARCHITECT(URAL) ASBESTOS ASPHALT AUTOMATIC
D ITUM LDG LK LW M O RK RZ TM TWN UR	BOARD BITUMINOUS BUILDING BLOCK(ING) BELOW BEAM BOTTOM OF BRICK BRONZE BOTTOM BETWEEN BUILT-UP ROOFING
AB B C ER F G J T LG LOS LR MU O.O. OMP CONN ONT ONT ONT S T U W Y	CONDUIT CABINET CATCH BASIN/ CIRCUIT BREAKER CENTER TO CENTER CEMENT CERAMIC CUBIC FEET CORNER GUARD CAST-IRON CONSTRUCTION/ CONTROL JOINT CIRCUIT CEILING CLOSET CLEAR(ANCE) CONCRETE MASONRY UNIT CLEANOUT CONDUIT ONLY COLUMN COMPOSITION CONCRETE CONNECTION CONCRETE CONNECTION CONTINUE; CONTINUOUS CONSTRUCTION CONTRACTOR CORRUGATED CARPET(ED) COUNTERSUNK COATED COPPER COLD WATER CUBIC YARD
BL ET F IA IAG IM ISP O N P R S SP WG	DOUBLE DETAIL DEPARTMENT DRINKING FOUNTAIN/ DOUGLAS FIR DIAMETER DIAGONAL DIMENSION DISPENSER DOOR OPENING DOWN DEEP DOOR DOWNSPOUT DRY STANDPIPE DRAWING
E) A C J L LEC LEV NGR P Q PT W W C XH XP XT	EXISTING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELEVATION ELECTRIC(AL) ELECTRIC(AL) ELECTRICAL ENGINEER(ING) ELECTRICAL PANEL EQUIPMENT EACH WAY ELECTRIC WATER COOLER EXHAUST EXPANSION EXTERIOR
A B B D D D N E C F G HC HS N N L L U C L U O P T T G U R N U R N	FAHRENHEIT FIRE ALARM FACE BRICK FIBERBOARD FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH GRADE FIRE HOSE CABINET FLATHEAD SCREW DINISH FIXTURE FLOOR FLOWLINE FLOOR FLOWLINE FLASHING FLUORESCENT FACE OF FIREPLACE/ FIREPROOFING FOOT/FEET FOOTING FURRED; FURRING
UKN A ALV B	FURNACE GAS GAGE; GAUGE GALVANIZED GRAB BAR

GL GND	GLASS; GLAZING GROUND
GRS	GALVANIZED RIGID STEEL
GSP	METAL GAI VANIZED STEEL
GWB	PIPE GYPSUM WALL BOARD
GWBMR	GYPSUM WALL BOARD MOISTURE RESISTANCE
GWBS	GYPSUM WALL BOARD SHEATHING
GWBX	GYPSUM WALL BOARD FIRE RATED
бүр	HIGH
HB	HOSE BIB HOLLOW CORE
HDWR HDWD	HARDWARE
hm Hor	HOLLOW METAL HORIZONTAL
HP HR	HORSEPOWER HOUR
(HS) HT	HORIZONTAL SECTION HEIGHT
HVAC	
HW HWH	HOT WATER HOT WATER HEATER
HYD	HYDRANT
ID IN	INSIDE DIAMETER INCH
INCL INSUL	INCLUDE(D); INLUDING INSULATE(D);
INT	INSULATION INTERIOR
INSTR INST	INSTRUCTION; INSTITUTE INVERT
JAN	JANITOR
JB JST	JUNCTION BOX JOIST
JT	JOINT
KIT	
LAW	LAVATORY LINEAR FOOT
LKR LL	LOCKER LIVE LOAD
LOC LT	LOCATION LIGHT
LWC	LIGHTWEIGHT CONCRETE
MACH	
MAX	MAXIMUM MEDICINE CABINET
MECH MEMB	MECHANICAL MEMBRANE
MH MFD	MANHOLE MANUFACTURED
MFR MIN	MANUFACTURER MINIMUM
MIR MISC MO	
MOD	MODULAR MOISTURE RESISTANT
MT MTL	METAL THRESHOLD
MTD MTG	MOUNT(ED) MOUNTING; MEETING
(N)	NEW
NA NIC	
NOM	NOMIDELS NOMINAL
NTS	COEFFICIENT NOT TO SCALE
OA	OVERALL
OBS OC	OBSCURE ON CENTER(S)
OFF OH	
OHG	HAND OVERHANG
OPNG OPP	OPENING OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PBD	PARTICLE BOARD
PCF	POUNDS PER
PERF PFB	PERFORATE(D) PREFABRICATE(D)
OL PLF	PLATE POUNDS PER LINEAR
PLAM	FOOT/FEET PLASTIC LAMINATE
PLAS PNL PNT	PANEL PAINT(ED)
PR PREFAB	PAIR PREFABRICATED
PROJ PSF	PROJECT; PROJECTED POUNDS PER SQUARE
PSI	FOOT/FEET POUNDS PER
PT PTD	OUARE INCH POINT PAPER TOWE
PUE	DISPENSER PUBLIC UTILITY
PTDF	EASEMENT PRESSURE TREATED
PTD/R	DOUGLAS FIR PAPER TOWEL
	DISPENSER AND RECEPTACLE
PVC PVMT	PARTITION POLYVINYL CHLORIDE PAVEMENT

PWD PLYWOOD PUE PUBLIC UTILITY EASEMENT QUARRY TILE QT REMOVE (RL) RELOCATE RADIUS; RISER RA **RETURN AIR** RD **ROOF DRAIN** REF REFER(ENCE) REFL REFLECTED REFR REFRIGERATOR REG REGISTER RENF REINFORCING REQD REQUIRED RESIL RESILIENT RES **RESISTANT/** RESIDENTIAL REV REVISE: REVISION RFG ROOFING RHS ROUNDHEAD SCREW RL RAIL(ING) RM ROOM RO ROUGH OPENING ROW RIGHT OF WAY RPM **REVOLUTIONS PER** MINUTE R/S REINFORCING STEEL RT RUBBER TILE RTU ROOF TOP UNIT RV ROOF VENT R/W RETAINING WALL RWD REDWOOD RWL RAINWATER LEADER SINK SEE ARCHITECTURAL SAD DRAWINGS SB SPLASHBLOCK SC SOLID CORE SCD SEE CIVIL DRAWINGS; SEAT COVER DISP. SCHED SCHEDULE SD STORM DRAIN: SOAF DISPENSER: SMOKE DETECTOR SDG SIDING SEC SECTION SED SEE ELECTRICAL DRAWINGS SEQD SEE EQUIPMENT DRAWINGS SF SQUARE FOOT SFD SEE FURNISHING DRAWINGS SH SHELF; SHELVING SHR SHOWER SHT(G) SHEET(ING), SHEATHING SIM SIMILAR SMD SEE MECHANICAL DRAWINGS SLD SLIDER/SEE LANDSCAPE DRAWINGS SND SANITARY NAPKIN DISPENSER SNR SANITARY NAPKIN RECEPTACLE SPEC SPECIFICATION(S) S/P SQ SQUARE SS SSD SEE STRUCTURAL DRAWINGS STA STATION STC COFFFICIENT STD STANDARD STL STEEL STOR STORAGE STRUCT SUSP SUSPENDED SY SYM SYN SYNTHETIC SYS SYSTEM TREAD ΤВ TEL TELEPHONE TEMP TEX TEXTURE T&G THK THR THRESHOLD TP то TOP OF TPD TSCD DISPENSER ΤV TYP TYPICAL ΤZ TERRAZZO UC UNDERCUT UH UNF UNP UNPAINTED UON NOTED UR URINAL VOLT VAT VB BARRIER VCP VENT VERT VEST VERTICAL VESTIBULE VF VIN VINYL VNR VENEER (VS) ŶТ VINYL TILE VENT THROUGH ROOF VTR W/ WITH WC WATER CLOSET WD WOOD WDW WINDOW WF W/O WITHOUT WP WΤ WFIGHT WWF WELDED WIRE FABRIC W.O.

SYMBOLS



SHELF AND POLE STAINLESS STEEL

SOUND TRANSMISSION

STRUCTURE; STRUCTURAL SQUARE YARD SYMMETRICAL

TOWEL BAR; TACKBOARD TEMPERED; TEMPORARY TONGUE AND GROOVE THICK(NESS) TOILET PARTITION TOILET PAPER DISPENSER TOILET SEAT COVER TELEVISION UNIT HEATER UNFINISHED UNLESS OTHERWISE

VINYL ASBESTOS TILE VINYL BASE; VAPOR VITRIFIED CLAY PIPE VENTILATOR VINYL FABRIC

VERTICAL SECTION

WIDTH; WATER; WATT

WIDE FLANGE

WATERPROOF(ING)

WALL OPENING

TRANSFORMER

XFMR

CODE REVIEW

 DRAWING NUMBER & TITLE	LAND USE CODE REVIE CODE STANDARD MICC TITLE 19 ZONE: R-8.4	<u>w</u>	
DETAIL NUMBER OVER SHEET NUMBER	LOT SLOPE CALCULAT HIGHEST ELEVATION PO LOWEST eLEVATION PO ELEVATION DIFFERENC DISTANCE BETWEEN P	<u>ION:</u> OINT = 490' DINT = 484' CE = 6' OINTS = 85'	
BUILDING SECTION	SLOPE =7% <u>ALLOWABLE LOT COVE</u> LOT AREA:	ERAGE (PER MICC 19.02.020.F 9900 SQ FT.	<u>):40%</u>
WALL SECTION	PROPOSED LOT COVEF LOT COVERAGE: 33% (SEE G-100 FOR DETAIL	RAGE (HOUSE + DECK + DRIVI .)	EWAY): 3271 SF
EXTERIOR ELEVATION	ALLOWABLE HARDSCA LOT AREA: PROPOSED HARDSCAF LOT COVERAGE: 9% (SEE PLAN FOR DETAIL	NPE (PER MICC 19.02.020.F):9% 9900 SQ FT. PE: 899 SF)	2
INTERIOR ELEVATION	GROSS FLOOR AREA (F	PER MICC 19.02.020.D): R 40 PERCENT OF THE LOT AR	EA, WHICHEVER IS LESS
VERTICAL DATUM, WORKPOINT		19.02.020.D = 3,558 SF OR 35%	
ROOM IDENTIFICATION	LOCATION ACCESSORY GARAGE BASEMENT	CONDITIONED 0 SF 0 SF 0 SF	UNCONDITIONED 98 SF 582 SF 310 SE
DOOR IDENTIFICATION	FIRST FLOOR SECOND FLOOR TOTAL	1764 SF 804 SF 2568 SF	0 SF <u>0 SF</u> 990 SQ FT
 ABOVE, BELOW OR HIDDEN		MCC 19.02.020.E	
GRID LINE	AVERAGE GRADE CALC AVERAGE BUILDING EL WEIGHTED SUM OF THI (484.7x47.2)+(486x18.9)+ (22877.84)+(9185.4)+(103) TOTAL LENGTH OF WAI 47.2+18.9+21.1+38+8.8+ AVERAGE BUILDING EL TOP OF (E) ROOF (NO C	- 30 CULATION: EVATION = (WEIGHTED SUM (E MID-POINT ELEVATIONS: -(489x21.1)+(489x38)+(489x8.8) 317.9)+(18582)+(4303.2)+(7497) LL SEGMENTS: 15.3+33.8+14.7+33.3+15.9=247 EVATION=120855.04/247=489.2 CHANGE) = 511.7	DF THE MID-POINT ELEVATIONS) ÷ (TOTAL LENGTH OF WALL SEGMENTS +(490x15.3)+(490x33.8)+(490x14.7)+(498x33.3)+(487x15.9)= +(16562)+(7203)+(16583.4)+(7743.3)=120855.04 29'
WALL TYPE, (REF INTERIOR PARTITION LEGEND (SHEET A)	BUILDING HEIGHT = 22. *NOTE - NO CHANGE TO	41' O BUILDING HEIGHT PROPOS	ED
WINDOW TYPE	FRONT YARD DEPTH: 20 REAR YARD DEPTH: 25	<u>TITLE 19.02.020):</u> 0 FEET OR MORE. FEET OR MORE.	
 TOILET ACCESSORY IDENTIFICATION	SIDE YARD DEPTH: 10 F EAVES SHALL NOT PRC	TRUDE MORE THAN 18 INCH	5FT PER 19.02.020.C.C.II ES INTO ANY REQUIRED YARD
	BUILDING CODE REVIE CODE STANDARD INTERNATIONAL RESID	W ENTIAL CODE 2018	

INTERNTIONAL FIRE CODE 2018 **INTERNATIONAL BUILDING CODE 2018** UNIFORM PLUMBING CODE 2018 WSEC 2018 INTERNATIONAL MECHANICAL CODE (IMC) RCW 19.27 & 70.92 WAC CHAPTERS 51-40, 42, 44-47

<u>OCCUPANCY</u> NUMBER OF STORIES ONE STORY ATTACHED GARAGE/MECHANICAL OCCUPANCY SEPARATION: Per IRC R302.5 PROVIDE A FIRE SEPARATION BETWEEN THE DWELLING AND PRIVATE GARAGE

INCLUDING 1 3/8" SOLID CORE WOOD DOOR OR 20 MIN RATED GARAGE DWELLING DOOR EQUIPPED WITH A SELF CLOSING DEVICE. PROVIDE MIN 1/2" GYPSUM WALLBOARD AT GARAGE WALLS AND 5/8" TYPE X GYPSUM BOARD CEILING SEPARATING THE GARAGE FROMTHE DWELLING.

ENERGY CODE REVEIW

CODE STANDARD WASHINGTON STATE ENERGY CODE, 2018 EDITION

CLIMATE ZONE: ZONE 4C, KING COUNTY CONDITIONED SPACE TOTAL PROPOSED: 2563 SQ. FT.

TOTAL CONDITIONED ADDITION: 584 SF

COMPLIANCE METHOD PRESCRIPTIVE COMPLIANCE PATH PER TABLE R402.1.1 WITH THE FOLLOWING MINIMUM

VALUES -SEE SHEET A7.01 FOR PERSCRIPTIVE REQUIREMEMTS

SEE ATTACHED "SIMPLE HEATING SYSTEM SIZE WORKSHEET" ENERGY EFFICIENCY PER TABLE 406.2 ENERGY CREDITS

PER WSEC TABLE 406.2 THIS HOME PROJECT QUALIFIES AS SMALL DWELLING WITH PROPOSED ADDITION OVER 500 SE BUT UNDER 1500 REQUIRING 3 CREDITS FUEL NORMALIZATION CREDIT FOR SYSTEM TYPE 1: REDUCED REQUIRED CREDITS BY 1 POINT = 2.5 CREDITS REQUIRED

A DUCTLESS HEAT PUMP SYSTEM WITH A MINIMUM HSPF OF 10: DAIKIN 5MXS48 OUTDOOR HEAT PUMP UP TO 12.5 HSPF CREDITS: OPTION 1.3 (5 CREDIT): PRESCRIPTIVE COMPLIANCE WITH THE FOLLOWING MODIFICATIONS: GLAZING U-0.28; FLOOR R-38; SLAB

ON GRADE & BELOW SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB OPTION 3.6 (2 CREDITS) DUCTLESS SPLIT SYSTEM HEAT PUMPS WITH NO ELECTRIC RESISTANCE HEATING IN THE

PRIMARY LIVING AREAS. A DUCTLESS HEAT PUMP SYSTEM WITH A MINIMUM HSPF OF 10 SHALL BE SIZED AND INSTALLED TO PROVIDE HEAT TO ENTIRE DWELLING UNIT AT

THE DESIGN OUTDOOR AIR TEMPERATURE. EQUIPMENT: DAIKIN 5MXS48 OUTDOOR HEAT PUMP UP TO 12.5 HSPF

HEATING SYSTEM & EQUIPMENT

EXISTING HEATING SYSTEM: HEATING SYSTEM: HIGH EFFICIENCY HEAT PUMP. HOUSE SET UP AS 3 ZONES, EACH ZONE HAD ITS OWN DIGITAL THERMOSTAT: ZONING AS FOLLOWS: 1)BASEMENT 2)MAIN FLOOR 3) MASTER BED/BATH ELECTRICAL POWER AND LIGHTING SYSTEMS: A MINIMUM OF 75% OF PERMANANTY INSTALLED LAMPS IN INDOOR LIGHTING FIXTURES SHALL BE HIGH EFFICACY LAMPS AND ALL

EXTERIOR LIGHTING SHALL BE HIGH EFFICACY. CERTIFICATE OF COMPLIANCE:

PER R401.3 . A PERMANANT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR WITHIN THREE FEET OF THE ELECTRICAL DISTRIBUTION PANEL BY THE BUILDER. THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER AND SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT OF ANFENESTRATIONS, AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING ON ON THE BUILDING. THE CERTIFICATE SHALL LIST THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT.

DUCT TESTING: PER R403.2 DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. DUCTS SHALL BE LEAK TESTED BY EITHER A POSTCONSTRUCTION TEST OR A ROUGH-IN TEST. A SIGNED AFFIDAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION.

VENTILATION AND INDOOR AIR QUALITY.

CODE STANDARD 2018 INTERNATIONAL RESIDENTIAL CODE

2018 WASHINGTON STATE ENERGY CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE OF THE STATE OF WASHINGTON

SOURCE SPECIFIC EXHAUST FANS: KITCHEN RANGE EXHAUST FAN FOR GAS RANGE: 600 CFM (DIRECT VENT). IF SELECTED FAN EXCEEDS 400CFM A MAKEUP AIR SYSTEM SHALL BE REQUIRED TO MAKEUP AIR AT A RATE APPROIXMATELY EQUAL TO THE EXHAUST AIR RATE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM BATH AND LAUNDRY: EXHAUST FANS SHALL BE 100 CFM INTERMITTENTAND SHALL BE EXHAUSTED DIRECTLY TO EXTERIOR

WHOLE HOUSE VENTILATION

WHOLE HOUSE VENTILATION CALCULATION: PRESCRIPTIVE PATH FOR 2563 SQ FT HOME WITH FOUR BEDROOMS = MIN 70 CFM WHOLE HOUSE FAN AT CONTINUOUS RATE OR IT MAY OPERATE INTERMITTENTLY WHERE THE SYSTEM HAS CONTROLS THAT ENABLE OPERATION FOR NOT LESS THAN 25% OF EACH 4 HOUR SEGMENT AT THE VENTILATION RATE OF 60 CFM MULTIPLIED BY THE FACTOR DETERMINED IN ACCORDANCE WITH

TABLE MC M1507.3.3 FOR RUN TIME. WHOLE HOUSE VENTILIATION WILL BE PROVIDED BY A BATHROOM FAN SET TO RUN INTERMITTENTLY PER ABOVE FIRE PROTECTION SYSTEMS

<u>CODE STANDARD</u>

NTERNATIONA RESIDENTIAL CODE, 2018 EDITION INTERNATIONAL FIRE CODE 2018

AN APPROVED HOUSEHOLD FIRE ALARM SYSTEM SHALL BE INSTALLED THROUGHOUT THE RESIDENCE IN EXISTING ONE-FAMILY AND TWO-FAMILY DWELLINGS (AND TOWNHOUSES) THAT HAVE DEFICIENCIES IN FIRE FLOW, HYDRANTS OR ACCESS.

PROJECT TEAM

<u>OWNER</u> BICKEL JOHN+KARINA 2734 70TH AVE SE MERCER ISLAND, WA 98040 CONTACT: JOHN BICKEL BICKELCONSTRUCTION@GMAIL.COM ARCHITECT

BC&J ARCHITECTURE 197 PARFITT WAY SW BAINBRIDGE ISLAND WA 98110 CONTACT: SARAH MARTIN SARAHM@BCANDJ.COM STRUCTURAL ENGINEER

IL GROSS STRUCTURAL ENGINEERS, LLC 23914 56TH AVE W MOUNTLAKE TERRACE, WA 98043 CONTACT: MARK SPEIDEL MARKS@ILGROSS.COM

A-105	Unnamed
GENERAL	
G-002	LEGENDS, NOTES & ABBREVIATIONS
G-003	GENERAL NOTES
G-004	GENERAL NOTES
G-005	SURVEY
G-100	ARCHITECTURAL SITE PLAN
ARCHITECT	URAL
A-100	DEMO PLANS
A-101	FOUNDATION PLAN
A-102	FIRST FLOOR PLAN
A-103	SECOND FLOOR PLAN
A-104	ROOF PLAN
A-201	BUILDING ELEVATIONS
A-202	BUILDING ELEVATIONS
A-301	BUILDING SECTIONS
A-405	ENLARGED STAIR PLANS AND SECTION
A-601	DOOR AND WINDOW SCHEUDLE
STRUCTUR	AL .
S1.0	GENERAL STRUCTURAL NOTES
S2.1	MAIN FLOOR FRAMING PLAN
S2.2	UPPPER FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.0	TYPICAL CONCRETE DETAILS
S4.0	TYPICAL WOOD DETAILS

DRAWING INDEX

TYPICAL WOOF FRAMING SECTIONS S4.1

PROJECT INFORMATION

PROJECT ADDRESS 2734 70TH AVE SE MERCER ISLAND, WA 98040 ASSESSOR'S PARCEL NUMBER 217450-2150

LEGAL DESCRIPTION: EAST SEATTLE ADD PLat Block: 10 Plat Lot: 13-14-15.

AGENCY HAVING JURISDICTION: CITY OF MERCER ISLAND

PROJECT DESCRIPTION: RENOVATION AND ADDITIONS OF A SINGLE FAMILY RESIDENCE AND ATTACHED GARAGE

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VICINITY MAP





Architecture Planning **Construction Management**

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MEMBER: AIA AMERICAN INSTITUTE OF ARCHITECTS NATIONAL COUNCIL OF ARCHITECTURAL **REGISTRATION BOARDS**

PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS

2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

NO.	DESCRIPTION
1	PERMIT SET
2	PERMIT COMMENTS

DATE 01/02/23 04/11/23

SHEET NAME LEGENDS, NOTES & ABBREVIATIONS SHEET NUMBER

GENERAL NOTES:

GENERAL:

1. ALL WORK SHALL CONFORM TO THE CURRENT INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO-FAMILY DWELLINGS & THE WASHINGTON STATE BUILDING CODE, AND ALL LOCAL MUNICIPALITY RULES AND REGULATIONS.

- ADOPTED CODES: 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2018 UNIFQRM PLUMBING CODE (UPC)
- 2018 INTERNATIONAL FIRE CODE (IFC) 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE
- ICC/ANSI A117.1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, WITH STATEWIDE AND

CITY AMEN/DMENTS . THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF BC&J ARCHITECTS AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT & SIGNATURE.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO CONSTRUCTION. ALL WALL DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE UNLESS NOTED OTHERWISE. ALL FLOOR LEVELS ARE TO TOP OF PLYWOOD SHEATHING UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS FOR CRITICAL DIMENSIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.

5. THE CONTRACTOR SHALL NOT SIGNIFICANTLY VARY OR MODIFY THE WORK SHOWN EXCEPT WITH WRITTEN INSTRUCTIONS FROM ARCHITECT.

6. THE CONTRACTOR SHALL REPORT ERRORS AND OMISSIONS TO THE ARCHITECT IMMEDIATELY.

CODE NOTES / BUILDING PLANNING:

1. EGRESS WINDOWS: IRC SECTION R310.1. BASEMENTS, HABITABLE ATTICS, AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WINDOW WELLS SHALL BE PROVIDED WHEN EGRESS WINDOWS HAVE A FINISHED SILL HEIGHT BELOW THE ADJACENT GROUND ELEVATION. THE WELL SHALL ALLOW THE WINDOW TO BE FULLY OPENED AND PROVIDE A MINIMUM ACCESSIBLE NET CLEAR OPENING OF 9 SQUARE FEET, WITH A MINIMUM DIMENSION OF 36". WINDOW WELLS WITH A VERTICAL DEPTH OF MORE THAN 44" SHALL BE EQUIPPED WITH A PERMANENT LADDER OR STEPS. SEE ATTACHED STANDARD CONSTRUCTION DETAILS: EMERGENCY EGRESS/RESCUE OPENINGS FOR ADDITIONAL INFORMATION.

2. SMOKE ALARMS: IRC SECTION R314. A SMOKE ALARM LISTED IN ACCORDANCE WITH UL217 SHALL BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE EACH SLEEPING ROOM, AND ON EACH STORY OF THE DWELLING (INCLUDING BASEMENTS BUT EXCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS). SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. INTERCONNECTION AND HARDWIRING IS NOT REQUIRED IN EXISTING BUILDINGS IF THE ALTERATIONS DO NOT RESULT IN THE REMOVAL OF WALL OR CEILING FINISHES UNLESS THERE IS A BASEMENT, ATTIC, OR CRAWL SPACE WHICH COULD PROVIDE ACCESS FOR HARDWIRING AND INTERCONNECTION WITHOUT REMOVING THE INTERIOR FINISH.

3. CARBON MONOXIDE ALARMS: AN APPROVED CARBON MONOXIDE ALARM LISTED WITH UL 2034 SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM AND ON EACH FLOOR OF THE DWELLING UNIT.

4. SAFETY GLAZING: IRC SECTION R308 ALL GLASS LOCATED IN AN AREA CONSIDERED HAZARDOUS MUST BE SAFETY GLAZED:

- GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS, EXCEPT DECORATIVE GLAZING AND GLAZED OPENINGS
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE. EXCEPTIONS: DECORATIVE GLAZING: AN INTERVENING WALL OR PERMANENT BARRIER IS BETWEEN THE DOOR AND THE GLAZING; GLAZING IS IN A WALL ON THE LATCH SIDE OF THE DOOR AND PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION; GLAZING ADJACENT TO A DOOR GIVING ACCESS TO A CLOSET WHICH IS LESS THAN 3' IN DEPTH SHALL COMPLY WITH C BELOW: AND GLAZING ADJACENT TO THE FIXED PANEL OF A PATIO DOOR.
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEET ALL OF THE FOLLOWING CONDITIONS: a. EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET. AND
- b. EXPOSED BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR, AND
- c. EXPOSED TOP EDGE IS GREATER THAN 36" ABOVE THE FLOOR, AND d. 1 OR MORE WALKING SURFACES ARE WITHIN 36" HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING. EXCEPTIONS: DECORATIVE GLAZING; A RAIL AT LEAST 11/2" HIGH AND CAPABLE OF WITHSTANDING A HORIZONTAL FORCE AT LEAST 50 POUNDS PER FOOT CONTACTING THE GLASS IS INSTALLED IN FRONT OF THE GLAZING 34" TO 38" ABOVE LINEAR FOOT WITHOUT WALKING SURFACE, OR 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, ROOF, WALKING SURFACES OR OTHER HORIZONTAL SURFACE ADJACENT TO THE GLASS EXTERIOR.
- GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. TUB, SHOWER, HOT TUB, WHIRLPOOL, SAUNA, & STEAM ROOM ENCLOSURES AND ANY GLAZING IN A BATHROOM WALL ENCLOSURE, WHERE THE BOTTOM IS LESS THAN 60" ABOVE THE WALKING SURFACE, EXCEPTION: GLAZING MORE THAN 60" MEASURED HORIZONTALLY FROM THE WATERS EDGE OF A HOT TUB, WHIRLPOOL OR BATHTUB.
- GLAZING IN WALLS AND FENCES USED AS THE BARRIER OF INDOOR AND OUTDOOR SWIMMING POOLS AND SPAS WHEN THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE A WALKING SURFACE AND THE GLAZING IS WITHIN 5' OF THE WATER'S EDGE.
- GLAZING WITHIN 36" HORIZONTALLY OF A WALKING SURFACE AND ADJACENT TO STAIRWAYS.. LANDINGS AND RAMPS WHEN THE EXPOSED SURFACE IS LESS THAN 36" ABOVE THE PLANE OF THE WALKING SURFACE. EXCEPTION: A RAIL, GUARD OR WALL IS INSTALLED MEETING CONDITIONS OF R308.4 (7).
- GLAZING WITHIN 60" HORIZONTALLY OF THE BOTTOM TREAD OF A STAIRWAY IN ANY DIRECTION WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 36 INCHES ABOVE THE NOSE OF THE TREAD. EXCEPTION: GUARDS COMPLYING WITH R312 AND THE GLASS IS MORE THAN 18" FROMTHE GUARD.

5. NATURAL LIGHT & VENTILATION IRC SECTION R303.1 AND R303.2. ALL HABITABLE ROOMS SHALL BE PROVIDED WITH AGGREGATE-GLAZING AREA OF NOT LESS THAN EIGHT PERCENT (8%) OF THE FLOOR AREA OF SUCH ROOMS. EXCEPT FOR ROOMS WHICH HAVE ARTIFICIAL LIGHT CAPABLE OF AVERAGE ILLUMINATION OF 6 FOOT CANDLES AT A HEIGHT OF 30" ABOVE FLOOR LEVEL. AN ADJOINING ROOM MAY BE CONSIDERED UNDER CERTAIN CONDITIONS OF R303.1.1. VENTILATION SHALL BE PROVIDED THROUGH SOURCE SPECIFIC AND WHOLE HOUSE VENTILATION SYSTEMS DESIGNED AND INSTALLED AS SPECIFIED IN SECTIONS M1507 AND M1508.

6. EXHAUST FANS: IRC SECTION M1507, IMC 501.2, 501.2.1 SOURCE SPECIFIC EXHAUST VENTILATION IS REQUIRED IN EACH KITCHEN, BATHROOM, WATER CLOSET, LAUNDRY ROOM, INDOOR SWIMMING POOL, SPA, AND OTHER ROOMS WHERE WATER VAPOR OR COOKING ODOR IS PRODUCED. EXHAUST FANS PROVIDING SOURCE SPECIFIC VENTILATION SHALL HAVE A MINIMUM FAN FLOW RATING NOT LESS THAN 50 CFM AT 0.25 INCHES WATER GAUGE FOR BATHROOMS, LAUNDRIES, OR SIMILAR ROOMS AND 100 CFM AT 0.25 INCHES WATER GAUGE FOR KITCHENS. THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED OUTDOORS. AIR SHALL NOT BE EXHAUSTED INTO AN ATTIC, SOFFIT, RIDGE VENT, OR CRAWL SPACE

7. WHOLE HOUSE VENTILATION SYSTEM CONTROLS: IRC SECTION M1507. ALL VENTILATION SYSTEM CONTROLS SHALL BE READILY ACCESSIBLE. INTERMITTENTLY OPERATED SYSTEMS SHALL HAVE A MANUAL CONTROL, AS WELL AS AN AUTOMATIC CONTROL, SUCH AS A CLOCK TIMER. THE AUTOMATIC CONTROL TIMER SHALL BE SET TO OPERATE THE WHOLE HOUSE FAN SYSTEM FOR AT LEAST 8 HOURS A DAY. A LABEL SHALL BE AFFIXED TO THE CONTROL THAT READS "WHOLE HOUSE VENTILATION (SEE OPERATING INSTRUCTIONS)." THE INSTALLER SHALL PROVIDE THE WHOLE HOUSE VENTILATION SYSTEM MANUFACTURER'S OPERATION DESCRIPTION AND OPERATING INSTRUCTIONS.

TABLE M1507.3.3 (1) CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS

	NUMBER OF BEDROOMS				
FLOOR AREA SQ-FT	0-1	2-3	4-5	6-7	>7
<1500	30	45	60	75	90
1501-3000	45	60	75	90	105
3001-4500	60	75	90	105	120
4501-6000	75	90	105	120	135
6001-7500	90	105	120	135	150
>7500	105	120	135	150	165

8. CLOTHES DRYERS: IRC SECTIONS M1502, G2439.3 & G2439.5. CLOTHES DRYER EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AT LEAST 3 FEET AWAY FROM ANY OPENINGS AND BE EQUIPPED WITH A BACK DRAFT DAMPER. EXHAUST DUCTS SHALL BE CONSTRUCTED OF MINIMUM 0.016INCH-THICK RIGID METAL DUCTS, HAVING SMOOTH INTERIOR SURFACES WITH JOINTS RUNNING IN THE DIRECTION OF AIR FLOW. DUCTS SHALL NOT BE CONNECTED WITH SHEET METAL SCREWS OR OTHER FASTENERS WHICH COULD OBSTRUCT THE FLOW. EXHAUST DUCTS SHALL BE SUPPORTED AT 4' INTERVALS AND SECURED IN PLACE. APPROVED (UL 2158A) TRANSITION DUCT OF NOT MORE THAN 8' IN LENGTH MAY BE USED WITHIN A DWELLING, PROVIDED THEY ARE NOT CONCEALED WITHIN CONSTRUCTION. DUCT LENGTH SHALL NOT EXCEED A TOTAL COMBINED VERTICAL AND HORIZONTAL LENGTH OF 25' FROM THE CONNECTION OF THE TRANSITION DUCT FROM THE DRYER TO THE OUTLET TERMINAL. THE MAXIMUM LENGTH OF THE DUCT SHALL BE REDUCED IN ACCORDANCE WITH TABLE M1502.4.4.1, EXCEPT THE MANUFACTURER'S INSTRUCTIONS MAY PREVAIL IF THE INSTRUCTIONS ARE PROVIDED TO THE INSPECTOR AT THE TIME OF THE CONCEALMENT INSPECTION. NO SCREENS SHALL BE INSTALLED AT THE DUCT TERMINATION. WHERE THE DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG LOCATED WITHIN 6' OF THE EXHAUST DUCT CONNECTION.

EXHAUST DUCT FITTING TYPE

4" RAD. MITERED 45 DEGREE ELBC

4" RAD. MITERED 90 DEGREE ELBC

6" RAD. SMOOTH 45 DEGREE ELBO

6" RAD. SMOOTH 90 DEGREE ELBC

8" RAD. SMOOTH 45 DEGREE ELBC 8" RAD. SMOOTH 90 DEGREE ELBC

10" RAD. SMOOTH 45 DEGREE ELB

10" RAD. SMOOTH 90 DEGREE ELB

9. RANGE HOOD: IRC SECTION M1503, M1901. THE VERTICAL DISTANCE BETWEEN THE COOKING TOP OF A DOMESTIC RANGE AND UNPROTECTED COMBUSTIBLE MATERIAL SHALL NOT BE LESS THAN 30". REDUCED CLEARANCES MAY BE PERMITTED IN ACCORDANCE WITH THE LISTING AND LABELING OF THE RANGE HOODS OR APPLIANCES. COMMERCIAL COOKING EQUIPMENT SHALL NOT BE INSTALLED WITHIN DWELLING UNITS; COOKING APPLIANCES SHALL BE LISTED AND LABELED AS HOUSEHOLD-TYPE APPLIANCES FOR DOMESTIC USE.

10. WATER CLOSET CLEARANCES: IRC FIGURE 307.1. WATER CLOSETS SHALL BE LOCATED IN A CLEAR SPACE NOT LESS THAN 30" IN WIDTH, AND NOT CLOSER THAN 15" FROM THE CENTER OF THE FIXTURE TO A WALL OR OTHER SIDE BARRIER SUCH AS A TUB. THE CLEAR SPACE IN FRONT OF THE WATER CLOSET SHALL BE AT LEAST 21". THE CEILING HEIGHT ABOVE THE FIXTURE SHALL BE SUCH THAT THE FIXTURE IS CAPABLE OF BEING USED FOR ITS INTENDED PURPOSE.

11. SHOWER AREAS: IRC FIGURE 307.1, R305, R307. SHOWERS SHALL BE MINIMUM 30"X 30" AND HAVE A MINIMUM 24" CLEARANCE IN FRONT OF THE OPENING, AND AT LEAST 6' 8" CLEARANCE ABOVE THE SHOWER FLOOR OR TUB. A NON-ABSORBENT WALL FINISH SHALL BE PROVIDED TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE SHOWER FLOOR.

12. CHIMNEYS & FIREPLACES: IRC CHAPTER 10. FACTORY-BUILT CHIMNEYS AND FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 127, LISTED AND LABELED, AND SHALL BE INSTALLED AND TERMINATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MASONRY OR CONCRETE FIREPLACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC CHAPTER 10 AND CERTIFIED IN ACCORDANCE WITH WASHINGTON STATE BUILDING CODE STANDARD 31-2 AND IBC 2114

13. SECTION R1001.7.1. SOLID FUEL BURNING APPLIANCES AND FIREPLACES SHALL BE PROVIDED WITH TIGHT-FITTING GLASS OR METAL DOORS, OR A FLUE DRAFT INDUCTION FAN OR AS APPROVED FOR MINIMIZING BACK-DRAFTING. AN OUTSIDE SOURCE OF COMBUSTION AIR SHALL BE DUCTED TO THE FIREBOX WITH DUCTS AT LEAST 6 SQUARE INCHES.

14. FIREPLACE HEARTH EXTENSION: IRC SECTION 1001.10. AN APPROVED NONCOMBUSTIBLE HEARTH MUST EXTEND AT LEAST 16" FROM THE FRONT OF. AND AT LEAST 8" BEYOND EACH SIDE OF THE FIREPLACE OPENING. WHERE THE FIREPLACE OPENING IS 6 SQUARE FEET OR LARGER. THE HEARTH EXTENSION SHALL EXTEND AT LEAST 20" IN FRONT OF, AND AT LEAST 12" BEYOND EACH SIDE OF THE FIREPLACE OPENING.

15. CLEARANCE TO COMBUSTIBLES: IRC SECTION 1003.18, 1001.11. WHEN MASONRY CHIMNEYS ARE BUILT WITHIN A STRUCTURE, A 2" CLEARANCE TO COMBUSTIBLE MATERIAL IS REQUIRED. WHEN A CHIMNEY IS PLACED ON THE EXTERIOR OF THE STRUCTURE, A 1" CLEARANCE IS ALLOWED. COMBUSTIBLE MATERIAL SHALL NOT BE PLACED WITHIN 6" OF FIREPLACE OPENING. NO COMBUSTIBLE MATERIAL PLACED WITHIN 12" OF THE FIREPLACE OPENING (SUCH AS MANTLES OR DECORATIVE FIREPLACE SURROUNDS) SHALL PROJECT MORE THAN 1/8" OF EACH 1" CLEARANCE FROM THE OPENING. SEE IRC CHAPTER 10 FOR ADDITIONAL REQUIREMENTS.

16. COMBUSTION AIR: IRC SECTION M1701.1. 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 REQUIREMENTS FOR COMBUSTION AND DILUTION AIR FOR GAS-FIRED APPLIANCES SHALL BE IN ACCORDANCE WITH CHAPTER 24. FIREPLACES SHALL COMPLY WITH SECTION 1001.

17. APPLIANCE LOCATIONS: IRC SECTION G2406.2. FUEL BURNING APPLIANCES SHALL NOT BE INSTALLED IN A SLEEPING ROOM, BATHROOM, TOILET ROOM, OR CLOSET. EXCEPTION: DIRECT VENT APPLIANCES (SEE IRC SECTION G2406.2 FOR ADDITIONAL EXCEPTIONS).

18. APPLIANCES LOCATED IN GARAGE: IRC SECTION M1307.3. APPLIANCES LOCATED IN A GARAGE OR CARPORT OR ANY OTHER LOCATION SUBJECT TO VEHICLE DAMAGE SHALL BE PROTECTED BY APPROVED BARRIERS. APPLIANCES HAVING AN IGNITION SOURCE SHALL BE ELEVATED SO THAT THE SOURCE OF IGNITION IS AT LEAST 18" ABOVE THE FLOOR IN GARAGES AND IN ANY ROOM THAT OPENS TO THE GARAGE. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED OR ANCHORED IN AN APPROVED METHOD.

19. WATER HEATER: IRC SECTION M1307.2; UPC 508.2, 508.4, 608.5; WSEC SECTION 504.2.1. 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 AND SHALL BE AT LEAST 4" AWAY FROM THE CONTROLS. WHERE WATER HEATERS ARE INSTALLED IN LOCATIONS WHERE LEAKAGE OF THE TANK OR CONNECTIONS CAN CAUSE DAMAGE, A WATERTIGHT PAN OF CORROSION-RESISTANT MATERIALS SHALL BE INSTALLED BENEATH THE WATER HEATER WITH A MINIMUM 3/4" DIAMETER DRAIN TO AN APPROVED LOCATION. TEMPERATURE AND PRESSURE RELIEF VALVES SHALL BE DRAINED TO OUTSIDE, EXCEPT THAT REPLACEMENT WATER HEATERS SHALL ONLY BE REQUIRED TO PROVIDE A DRAIN POINTING DOWNWARD FROM THE RELIEF VALVE TO EXTEND BETWEEN 2' AND 6"FROM THE FLOOR WITH NO ADDITIONAL FLOOR DRAIN. DRAIN MAY NOT BE TRAPPED AND MUST TERMINATE NO MORE THAN 2' NOR LESS THAN 6" FROM THE GROUND AND SHALL NOT BE THREADED. ALL ELECTRIC HOT WATER HEATERS SHALL BE PLACED ON AN R-10 PAD WHEN LOCATED IN AN UNHEATED SPACE OR ON A CONCRETE FLOOR. A THERMAL EXPANSION (COMPRESSION) TANK SHALL BE INSTALLED ON WATER HEATER TANKS.

20. L.P.G. (PROPANE) APPLIANCES: IFGC SECTION 303.2 AND 303.3 PROHIBITS APPLIANCES FROM BEING INSTALLED IN A HAZARDOUS LOCATION, WHICH IS ANY LOCATION CONSIDERED TO BE A FIRE HAZARD FOR FLAMMABLE VAPORS, DUST, COMBUSTIBLE FIBERS OR OTHER HIGHLY COMBUSTIBLE SUBSTANCES. L.P.G. (HEAVIER THAN AIR) CONTAINERS SHALL NOT BE INSTALLED IN A BASEMENT, CELLAR, PIT, UNDER-FLOOR SPACE, BELOW GRADE OR SIMILAR LOCATION WHERE HEAVIER-THAN-AIR GAS MIGHT COLLECT. L.P.G. TANKS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 58 AND CHAPTER 38 OF THE 2009 INTERNATIONAL FIRE CODE. L.P.G. STANDARD SHALL BE NFPA 58.

TYPICAL LPG TANK SETBACKS INTAKES; OPENINGS INTO DIRECT-VENT APPLIANCES.

L.P.G. TANK SIZE (GAL)

<125

125-500 500-2000

21. MANUFACTURER'S SPECS: IRC M1307.1, THE MANUFACTURER'S OPERATING AND INSTALLATION INSTRUCTIONS SHALL REMAIN ATTACHED TO THE APPLIANCE UNTIL FINAL INSPECTION.

22. BACKFLOW PREVENTORS: UPC SECTION 603. POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS OTHER THAN WATER HEATER DRAINS AND CLOTHES WASHER CONNECTIONS SHALL BE PROTECTED BY A LISTED NON-REMOVABLE HOSE BIBB TYPE BACKFLOW PREVENTER. OR ATMOSPHERIC VACUUM BREAKER. ALL CROSS CONNECTIONS BETWEEN POTABLE WATER SOURCES AND OTHER SYSTEMS. SUCH AS LANDSCAPE IRRIGATION SYSTEMS, HYDRONICRADIANT HEATING SYSTEMS, SWIMMING POOLS, ETC. SHALL BE EQUIPPED WITH BACKFLOW PREVENTERS

TABLE M1502.4.4.1 DRYER EXHAUST DUCT FITTING EQUIVALENT LENGTH

	EQUIVALENT LENGTH
W	2'-6"
W	5'
W	1'
W	1'-9"
W	1'
W	1'-7"
OW	9"
OW	1'-6"

*MINIMUM 5 FEET TO PROPERTY LINES; BUILDING OPENINGS; SOURCES OF IGNITION; VENTILATION AIR

REQUIRED SET BACK FROM BUILDINGS & PROPERTY LINES
ZERO WITH CONDITIONS *
10 FEET
25 FEET

23. TRAP PRIMERS: UPC SECTION 1007. FLOOR DRAINS OR SIMILAR TRAPS CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROTECTED WITH A TRAP SEAL PRIMER EXCEPT WHERE

IT'S DEEMED NOT NECESSARY FOR SAFETY OR SANITATION BY EITHER THE BUILDING DEPT. OR THE WATER DEPT. TRAP SEAL PRIMERS SHALL BE ACCESSIBLE FOR MAINTENANCE.

24. GARAGE/DWELLING DOOR: IRC SECTION R302.5.1. 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 THAT 1-3/8 INCHES IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1-3/8 INCHES THICK. OR 20MINUTE FIRE-RATED DOORS WITH A SELF CLOSING DEVICE.

25. GARAGE/DWELLING SEPARATION: IRC TABLE R302.6

SEPARATION	MATERIAL
FROM THE RESIDENCE & ATTICS	1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO GARAGE SIDE
FROM ALL HABITABLE ROOMS ABOVE THE GARAGE	NOT LESS THAN 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQ'D BY THIS SECTION	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3'-0" FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF THE WALL

26. GARAGE FLOOR SURFACE: IRC R309.1: THE GARAGE FLOOR SHALL BE OF CONCRETE OR OTHER APPROVED NONCOMBUSTIBLE MATERIAL, AND SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY. A CARPORT (OPEN ON AT LEAST 2 SIDES) MAY HAVE A FLOOR SURFACE OF ASPHALT.

27. FIRE-RESISTANCE OF EXTERIOR WALLS: IRC SECTION R302.1 TABLE R302.1(1). 1-HR FIRE-RESISTIVE CONSTRUCTION IS REQUIRED WITHIN 5 FEET OF PROPERTY LINES. OPENINGS ARE NOT PERMITTED AT LESS THAN 3' AND ARE LIMITED BETWEEN 3' AND 5'. PROJECTIONS ARE ALLOWED TO BE PROTECTED WITH 1HOUR FIRE-RESISTANCE RATED CONSTRUCTION ON THE UNDERSIDE WHEN THE PROJECTION IS BETWEEN 2' AND 5' FROM THE PROPERTY LINE. UNPROTECTED, DETACHED GARAGES SHALL BE AT LEAST 3 FEET AWAY FROM OTHER RESIDENTIAL OR ACCESSORY BUILDINGS.

28. FLOOR AREA: IRC SECTION R304. DWELLING UNITS SHALL HAVE AT LEAST ONE HABITABLE ROOM WITH NOT LESS THAN 120 SQUARE FEET OF FLOOR AREA. OTHER HABITABLE ROOMS EXCEPT KITCHENS SHALL HAVE AN AREA OF NOT LESS THAN 70 SQUARE FEET WITH A MINIMUM DIMENSION OF 7' IN ONE DIRECTION.

29. MINIMUM CEILING HEIGHTS: IRC SECTION R305.1 HABITABLE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET. BEAMS AND GIRDERS SPACED NOT LESS THAN 4 FEET ON CENTER MAY PROJECT NOT MORE THAN 6 INCHES BELOW THE REQUIRED CEILING HEIGHT. CEILINGS IN BASEMENTS WITHOUT HABITABLE SPACES MAY HAVE A CEILING HEIGHT OF 6'-8" WITH BEAMS PROJECTING TO WITHIN 6'-4" OF THE FINISHED FLOOR. BATHROOMS SHALL HAVE MINIMUM CEILING HEIGHT OF 6'-8" AT THE FRONT CLEARANCE AREAS OF FIXTURES.

30. ATTIC ACCESS: IRC SECTION R807.1. ATTICS WHICH EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30" OR MORE AS MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBER TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS MUST BE PROVIDED WITH AN ACCESS OPENING OF NOT LESS THAN 22" X 30" AND LOCATED IN A HALLWAY, CORRIDOR, OR READILY ACCESSIBLE LOCATION. WHEN THE ACCESS IS LOCATED IN THE CEILING, MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE 30" AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF THE CEILING FRAMING MEMBERS. ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE AND WITH AN OPENING WITH A MINIMUM DIMENSION OF 20" BY 30" AND MAXIMUM PASSAGEWAY OF 20' LONG MEASURED FROM THE OPENING TO THE APPLIANCE. SEE M1305.1.3 FOR ADDITIONAL DETAILS. THE ATTIC ACCESS SHALL NOT PENETRATE THE GARAGE/DWELLING FIRE **RESISTIVE BARRIER.**

31. DOORS & EXITS: IRC SECTION R311.2. AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED IN EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED. WITH A MINIMUM CLEAR WIDTH OF 32" WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP (USUALLY A 36" DOOR) AND CLEAR HEIGHT OF 78". AND THAT CAN BE OPENED FROM THE INSIDE WITHOUT THE USE OF A KEY. TOOL OR SPECIAL KNOWLEDGE.

32. LANDINGS: IRC SECTION R311.3. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF EXTERIOR DOORS WITH DIMENSIONS OF AT LEAST 36" MEASURED IN THE DIRECTION OF TRAVEL, AND AT LEAST THE WIDTH OF THE DOOR SERVED. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1.5" LOWER THAN THE TOP OF THE THRESHOLD OF THE DOORWAY, EXCEPT DOORS OTHER THAN THE MAIN EXIT MAY HAVE THE LANDING UP TO 7 ³/₄" BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING (EXCEPT THAT SCREEN AND STORM DOORS MAY); OR, IF NOT THE MAIN EXIT AND THERE ARE TWO OR FEWER RISERS, A LANDING IS NOT REQUIRED. IN ADDITION, AN INTERIOR DOOR MAY OPEN AT THE TOP OF A FLIGHT OF STAIRS PROVIDED THE DOOR DOES NOT SWING OVER THE TOP STEP. EXTERIOR LANDINGS MAY HAVE A SLOPE NOT TO EXCEED 2% (1" IN 48").

33. GUARDS: IRC SECTION R312. PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 36" IN HEIGHT, INCLUDING AREAS ENCLOSED WITH INSECT SCREENING, EXCEPT WHERE GUARDS ARE REQUIRED AT THE OPEN SIDE OF STAIRS, THE HEIGHT MAY BE REDUCED TO 34" ABOVE THE STAIR NOSINGS. GUARDRAILS SHALL BE DESIGNED SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH, EXCEPT THE TRIANGULAR OPENING BETWEEN A RISER. TREAD AND THE BOTTOM RAIL OF THE GUARD MAY BE OF SUCH SIZE THAT A SPHERE 6" CANNOT PASS THROUGH.

34. HANDRAILS: IRC SECTION R311.7.7 & 311.8.3. ALL STAIRWAYS WITH 4 OR MORE RISERS AND RAMPS EXCEEDING A SLOPE OF 1:12 (8.33%) SHALL HAVE AT LEAST ONE GRIPPABLE HANDRAIL. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN A NEWELL POST OR SAFETY TERMINALS

35. STAIRWAYS: IRC SECTION R311.7. PRIVATE DWELLING STAIRWAYS SHALL NOT BE LESS THAN 36" IN WIDTH AND SHALL HAVE A HEADROOM CLEARANCE OF NOT LESS THAN 6 FEET 8 INCHES MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSINGS, OR LANDING SURFACES. (SEE ITEM 39 FOR SPIRAL STAIRWAYS.)

36. STAIR RISE & RUN: IRC SECTION R311.7.4. MAXIMUM RISER HEIGHT SHALL BE 7-3/4 INCHES AND THE MINIMUM TREAD DEPTH SHALL BE 10 INCHES. THE GREATEST RISER HEIGHT MAY NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. THE RADIUS CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 9/16 INCH. A NOSING NOT 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. EXCEPTION: A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11 INCHES. OPEN RISERS ARE PERMITTED, PROVIDED THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE PASSAGE OF A 4-INCH DIAMETER SPHERE.

37. STAIRWAY ILLUMINATION: R311.7.8, R303.6.1. ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH A LIGHT LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY THAT PROVIDES AT LEAST 1 FOOT CANDLE OF ILLUMINATION MEASURED AT THE CENTER OF TREADS AND LANDINGS. A WALL SWITCH SHALL BE PROVIDED AT EACH FLOOR LEVEL WHERE THE STAIRWAY HAS SIX OR MORE RISERS. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS PROVIDING ACCESS TO A BASEMENT FROM THE OUTSIDE GRADE LEVEL SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE BOTTOM LANDING OF THE STAIRWAY. THE ILLUMINATION OF EXTERIOR STAIRWAYS SHALL BE CONTROLLED FROM INSIDE THE DWELLING UNIT.

38. USABLE SPACE UNDER STAIRS: IRC SECTION R302.7 THE WALLS AND SOFFITS OF ENCLOSED USABLE SPACE UNDER STAIRS SHALL BE PROTECTED ON THE ENCLOSED SIDE BY NOT LESS THAN 1 LAYER OF 1/2" GYPSUM BOARD.

39. WINDING STAIRWAYS: IRC SECTION R311.7.4.2 WINDING STAIRWAYS SHALL HAVE MINIMUM TREAD DEPTH OF 6" AND A MINIMUM TREAD DEPTH OF 10" MEASURED BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AT THE INTERSECTIONS WITH THE WALKLINE.

40. SPIRAL STAIRWAYS: IRC SECTION R311.7.9.1. SPIRAL STAIRS MUST PROVIDE A CLEAR WALKING AREA MEASURING AT LEAST 26" FROM THE OUTER EDGE OF THE SUPPORTING COLUMN TO THE INNER EDGE OF THE HANDRAIL. THE TREAD RUN MUST BE AT LEAST 7 1/2" AT THE POINT 12" FROM WHERE THE TREAD IS THE NARROWEST. THE RISE MUST BE SUFFICIENT TO PROVIDE 6'-6" HEADROOM, AND EACH RISER SHALL NOT EXCEED 9 1/2 INCHES.

CODE NOTES / FIRE:

1. PER BAINBRIDGE ISLAND MUNICIPAL CODE 20.04.100 AMENDMENTS TO SECTION 903 OF INTERNATIONAL FIRE CODE, A FULLY AUTOMATIC SPRINKLER SYSTEM DESIGN INSTALLED AND TESTED PURSUANT TO THE CURRENT EDITION OF NFPA13, NFPA 13R, OR NFPA 13D, AS DETERMINED BY THE FIRE MARSHAL, SHALL BE INSTALLED IN ALL NEW BUILDINGS IN EXCESS OF 5,000 SQUARE FEET OF TOTAL FLOOR AREA.

2. A FULLY AUTOMATIC SPRINKLER SYSTEM MEETING THE STANDARDS SET FORTH IN NOTE 1 ABOVE MAY BE REQUIRED BY THE CHIEF OF THE FIRE DISTRICT FOR ANY NEW BUILDING IN THE CITY, WHEN. IN THE JUDGEMENT OF THE CHIEF. ANY OF THE FOLLOWING CONDITIONS EXIST: HAZARDOUS OPERATIONS, HAZARDOUS CONTENTS, CRITICAL EXPOSURE PROBLEMS, LIMITED ACCESSIBILITY TO THE BUILDINGS (SUCH AS DRIVEWAYS IN EXCESS OF 15% SLOPE), OR OTHER ITEMS WHICH MAY CONTRIBUTE TO DEFINITE FIRE HAZARDS.

3. ALL SPRINKLER SYSTEMS INSTALLED SHALL BE EQUIPPED WITH A LEAK DETECTOR METER WHICH INCLUDES DOUBLE CHECK VALVE ASSEMBLY.

EXISTING BUILDINGS:

4. IF A BUILDING PERMIT IS REQUIRED IN THE REMODELLING OF AN EXISTING STRUCTURE OF 5,000 OR MORE SQUARE FEET TOTAL FLOOR AREA, THE ENTIRE STRUCTURE SHALL BE FULLY SPRINKLERED AS DESCRIBED IN NOTE 1 ABOVE.

CODE NOTES / OTHER:

1. PREMISES IDENTIFICATION: IRC SECTION R319.1. ADDRESSES SHALL BE PROVIDED IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. NUMERALS SHALL BE AT LEAST 4" HIGH WITH 1/2" STROKE AND BE CONSPICUOUSLY DISPLAYED ON A CONTRASTING BACKGROUND. IF THE BUILDING IS NOT CLEARLY VISIBLE FROM A NAMED WAY OF TRAVEL, THE NUMERICAL DESIGNATION (ADDRESS) SHALL ALSO BE DISPLAYED NEAR THE MAIN ENTRANCE TO THE PROPERTY AS WELL AS AT THE DRIVEWAY ENTRANCE THAT LEADS TO THE BUILDING. PROPERTY ADDRESSES SHALL BE POSTED PRIOR TO REQUESTING ANY INSPECTIONS.

2. APPROVED PLANS: IRC SECTIONS R105.7, R106.3.1, R106.4. WHEN THE BUILDING OFFICIAL ISSUES A PERMIT, THE CONSTRUCTION DOCUMENTS SHALL BE APPROVED IN WRITING OR BY STAMP. WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, ANY CHANGES MADE DURING CONSTRUCTION SHALL BE RESUBMITTED FOR APPROVAL. THE BUILDING PERMIT, INSPECTION CARD, AND 1 SET OF APPROVED CONSTRUCTION DOCUMENTS MUST REMAIN ON THE JOB SITE AT ALL TIMES UNTIL THE COMPLETION OF THE PROJECT.

3. HEATING: IRC R303.8. EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68° F AT A POINT 3' ABOVE THE FLOOR AND 2' FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. PRIMARY HEATING SOURCES IN ALL NEW AND SUBSTANTIALLY REMODELED BUILDINGS IN DESIGNATED AREAS SHALL NOT BE DEPENDENT UPON WOOD STOVES. NO USED SOLID FUEL BURNING DEVICE SHALL BE INSTALLED IN NEW OR EXISTING BUILDINGS UNLESS SUCH DEVICE IS UNITED STATES ENVIRONMENTAL PROTECTION AGENCY CERTIFIED OR A PELLET STOVE EITHER CERTIFIED OR EXEMPT FROM CERTIFICATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY.

4. SKYLIGHTS: IRC 308.6. THE FOLLOWING TYPES OF GLAZING MAY BE USED: 1) LAMINATED GLASS WITH A MINIMUM .015" POLYVINYL BUTYL INTERLAYER FOR GLASS PANES 16 SQ. FT. OR LESS IN AREA LOCATED SUCH THAT THE HIGHEST POINT OF THE GLASS IS NOT MORE THAN 12' ABOVE A WALKING SURFACE OR OTHER ACCESSIBLE AREA: FOR HIGHER OR LARGER SIZES, THE MINIMUM INTERLAYER THICKNESS SHALL BE .030". 2) FULLY TEMPERED GLASS. 3) HEAT-STRENGTHENED GLASS. 4) WIRED GLASS. 5) APPROVED RIGID PLASTICS. SKYLIGHTS SHALL COMPLY WITH WASHINGTON STATE ENERGY CODE REQUIREMENTS AND BE PROVIDED WITH FLASHING APPROPRIATE FOR THE SKYLIGHT AND THE ROOF COVERING MATERIAL.

5. GYPSUM WALLBOARD FASTENING: IRC R702.3.6 & TABLE R702.3.5..SCREWS FOR ATTACHING GYPSUM BOARD TO WOOD FRAMING SHALL BE TYPE W OR TYPE S IN ACCORDANCE WITH ASTM C 1002 AND SHALL PENETRATE THE WOOD NOT LESS THAN 5/8", AND STRUCTURAL INSULATED PANELS AT LEAST 7/16"

A. 3/8" MINIMUM FROM EDGE AND ENDS FOR NAILS OR SCREWS. B. FASTENING (NAILS): 7" O.C. MAX. CEILING, 8" WALLS.

C. FASTENING (SCREWS): 12" O.C. CEILING, 16" O.C. WALLS WHEN WALL FRAMING IS 16" O.C., 12" WHEN WALL FRAMING IS 24" O.C. FOOTNOTE E, TABLE R702.3.5: TYPE X GYPSUM WALLBOARD FOR GARAGE CEILINGS BENEATH HABITABLE ROOMS SHALL BE INSTALLED PERPENDICULAR TO THE CEILING FRAMING AND SHALL BE FASTENED AT 6" O.C. BY MINIMUM 1-7/8" 6D COATED NAILS OR EQUIVALENT DRYWALL SCREWS.

6. NUMBER OF BUILDING STORIES: IRC SECTIONS R101.2, R202. IN ACCORDANCE WITH THE SCOPE OF THE 2009 INTERNATIONAL RESIDENTIAL CODE, (IRC) ANY BUILDING THAT EXCEEDS 3 STORIES, MUST BE BUILT IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). A BUILDING STORY IS THAT PORTION OF A BUILDING INCLUDED BETWEEN THE UPPER SURFACE OF A FLOOR AND THE UPPER SURFACE OF THE FLOOR OR ROOF NEXT ABOVE. THE FIRST "STORY ABOVE GRADE" IS THE FIRST STORY HAVING ITS FINISHED FLOOR SURFACE ENTIRELY ABOVE GRADE, EXCEPT THAT A BASEMENT SHALL BE CONSIDERED AS A STORY ABOVE GRADE WHERE THE FINISHED SURFACE OF THE FLOOR ABOVE THE BASEMENT IS: 1) MORE THAN 6' ABOVE GRADE PLANE; 2) MORE THAN 6' ABOVE THE FINISHED GROUND LEVEL FOR MORE THAN 50% OF THE TOTAL BUILDING PERIMETER; OR, 3) MORE THAN 12' ABOVE THE FINISHED GROUND AT ANY LEVEL. THE NUMBER OF STORIES IS THE SUM OF THE FIRST STORY ABOVE GRADE PLANE PLUS ALL OF THE STORIES ABOVE.

7. HEIGHT OF BUILDING / GRADE PLANE: IRC SECTION 202. THE BUILDING HEIGHT IS THE VERTICAL DISTANCE FROM GRADE PLANE TO THE AVERAGE HEIGHT OF THE HIGHEST ROOF SURFACE. THE GRADE PLANE IS A REFERENCE PLANE REPRESENTING THE AVERAGE OF THE FINISHED GROUND LEVEL ADJOINING THE BUILDING AT ALL EXTERIOR WALLS. WHERE THE FINISHED GROUND LEVEL SLOPES AWAY FROM THE EXTERIOR WALLS, (WHICH IS REQUIRED) THEN THE REFERENCE PLANE SHALL BE ESTABLISHED BY THE LOWEST POINTS WITHIN THE AREA BETWEEN THE BUILDING AND THE LOT LINE, OR, 6' FROM THE BUILDING, WHICHEVER IS LESS. SEE KCC TITLE 17 FOR HEIGHT RESTRICTIONS AND MEASUREMENT OF HEIGHT FOR CERTAIN AREAS OR ZONES (ZONING CODE).

8. RETAINING WALLS: IBC 1806.1, IRC R105.2, R404. RETAINING WALLS THAT ARE NOT LATERALLY SUPPORTED AT THE TOP AND THAT RETAIN MORE THAN 24" OF UNBALANCED FILL SHALL BE DESIGNED TO ENSURE STABILITY AGAINST OVERTURNING, SLIDING, EXCESSIVE FOUNDATION PRESSURE AND WATER UPLIFT. RETAINING WALLS SHALL BE DESIGNED FOR A SAFETY FACTOR OF 1.5 AGAINST LATERAL SLIDING AND OVERTURNING. RETAINING WALLS THAT DO NOT EXCEED 4' IN HEIGHT, MEASURED FROM THE BOTTOM OF THE FOOTING TO THE TOP OF THE WALL, AND THAT DO NOT SUPPORT A SURCHARGE (LOAD ABOVE) ARE EXEMPT FROM PERMIT REQUIREMENTS, BUT MUST STILL BE CONSTRUCTED PROPERLY AND MUST CONFORM WITH ZONING CODE SETBACK REQUIREMENTS. A SEPARATE PERMIT IS REQUIRED FOR CONSTRUCTION OF A RETAINING WALL.



Architecture Planning **Construction Management**

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SE

REVISIONS

NO. DESCRIPTION

1 PERMIT SET

01/02/23 2 PERMIT COMMENTS 04/11/23

DATE

SHEET NAME GENERAL NOTES

SHEET NUMBER

CODE NOTES / STRUCTURAL:

1. MIN. CONCRETE FOOTING SIZE; IRC SECTION R403.1, R403.1.3. • SUPPORTING 1 FLOOR: MINIMUM 6" BY 12".

SUPPORTING 2 FLOORS: MINIMUM 6" X 15".

SUPPORTING 3 FLOORS: MINIMUM 8" X 23".

ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS FOOTINGS OR OTHER APPROVED STRUCTURAL SYSTEMS OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS AND TO TRANSMIT THE RESULTING LOADS TO THE SUPPORTING SOIL WITHIN THE LIMITATIONS DETERMINED FROM THE CHARACTERISTICS OF THE SOIL. FOOTINGS SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOIL OR ENGINEERED FILL

2. MIN. CONCRETE FOOTING REINFORCEMENT: IRC SECTION 403.1.3. AT LEAST ONE #4 BAR IS REQUIRED FOR ALL CONTINUOUS CONCRETE FOOTINGS.

3. MIN. CONCRETE FOUNDATION WALL SIZE AND REINFORCEMENT: IRC SECTION 404. WALLS THAT EXCEED 8 FEET IN HEIGHT OR HAVE MORE THAN 4 FEET OF UNBALANCED FILL AND NO PERMANENT LATERAL SUPPORT AT THE TOP OF THE WALL, MUST BE DESIGNED, SIGNED AND SEALED BY A LICENSED WASHINGTON STATE DESIGN PROFESSIONAL

4. MINIMUM FOOTING DEPTH: IRC SECTION R403.1.4. ALL EXTERIOR FOOTINGS SHALL BE PLACED AT LEAST 12" BELOW THE UNDISTURBED GROUND. INTERIOR FOOTINGS SUPPORTING BEARING OR BRACING WALLS AND CAST MONOLITHICALLY WITH A SLAB ON GRADE SHALL EXTEND TO A DEPTH OF NOT LESS THAN 12" BELOW THE TOP OF SLAB.

5. SLAB ON GRADE FLOOR: IRC R403.1.3.2 IRC R309.1. FOUNDATIONS MUST EXTEND AT LEAST 6" ABOVE FINISH GRADE. MONOLITHIC FOUNDATIONS SHALL HAVE FOOTINGS AT LEAST 12" WIDE, BE AT LEAST 12" BELOW GRADE, EXTEND AT LEAST 6" ABOVE FINISH GRADE, AND SHALL HAVE AT LEAST ONE #4 BAR AT THE BOTTOM OF THE FOOTING AND ONE #4 BAR LOCATED AT THE TOP.

6. FOUNDATION ANCHORAGE: IRC SECTION R403.1.6 & R602.11.1. ANCHOR BOLTS SHALL BE NOT LESS THAN 1/2" DIAMETER, EMBEDDED AT LEAST 7", AND SPACED NO MORE THAN 6' APART. (4' IF OVER 2 STORIES). THERE SHALL BE A MINIMUM OF 2 BOLTS PER PIECE (SILL PLATE), WITH A BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE. 3" X 3" X 0.229" THICK HOT DIPPED GALVANIZED PLATE WASHERS, AND NUTS SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE. IF FOUNDATION ANCHOR STRAPS ARE USED INSTEAD OF ANCHOR BOLTS, THEY SHALL BE SPACED NO MORE THAN 4' APART (3' IF OVER 2 STORIES).

7. DAMP-PROOF FOUNDATION WALLS: IRC SECTION R406 EXTERIOR FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE HABITABLE OR USABLE SPACES LOCATED BELOW GRADE SHALL BE DAMP PROOFED IN ACCORDANCE WITH IRC R406.1 OR WATERPROOFED IN ACCORDANCE WITH IRC 406.2, FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE BY APPROVED METHODS AND MATERIALS. ALL JOINTS IN MEMBRANE WATERPROOFING SHALL BE LAPPED AND SEALED WITH AN ADHESIVE COMPATIBLE WITH THE MEMBRANE.

8. PIER PADS & COLUMNS: IRC SECTION R407.3. CONCRETE PIER FOOTINGS SHALL HAVE A DEPTH TO WIDTH RATIO NOT TO EXCEED 2:1, OR, SHALL HAVE #4 BARS LOCATED EACH DIRECTION SPACED NOT MORE THAN 12" ON CENTER. (REBAR MUST BE IN PLACE UPON INSPECTION.) POSITIVE CONNECTIONS SHALL BE PROVIDED TO PREVENT LATERAL DISPLACEMENT AT BOTH THE TOP AND BOTTOM OF COLUMNS.

9. FOOTING/PIER SETBACK FROM SLOPE: IRC SECTION R403.1.7 THE PLACEMENT OF BUILDINGS AND STRUCTURES ON OR ADJACENT TO SLOPES STEEPER THAN 1 UNIT VERTICAL IN 3 UNITS HORIZONTAL (33.3%) SLOPE SHALL CONFORM TO SECTIONS R403.1.7.1 THROUGH R403.1.7.4. (SEE ALSO IRC FIGURE R403.1.7.1) FOOTINGS MUST BE EMBEDDED IN MATERIAL SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOOTING WITHOUT DETRIMENTAL SETTLEMENT.

10. CHIMNEY FOUNDATION: IRC SECTION R1001.2 AND R1003 MASONRY CHIMNEYS SHALL BE SUPPORTED ON FOUNDATIONS OF SOLID MASONRY OR CONCRETE AT LEAST 12 INCHES THICK, AT LEAST 6 INCHES BEYOND EACH SIDE OF THE EXTERIOR DIMENSIONS OF THE CHIMNEY, BE AT LEAST 12" BELOW GRADE, AND ON NATURAL UNDISTURBED EARTH OR ENGINEERED FILL. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN TABLE R1003.2 AND IRC FIGURE R1001.1.

11. FOUNDATION VENTILATION: IRC SECTION R408.2. MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 300 SQUARE FEET OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING EXCEPT ONE SIDE OF THE BUILDING IS PERMITTED TO HAVE NO VENTILATION OPENINGS.. VENTILATION OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH WITH MATERIALS IDENTIFIED IN IRC R408.2 SUCH THAT THE OPENINGS ARE NOT LARGER THAN ¼ INCH.

12. PROTECTION AGAINST DECAY: IRC SECTION R317.1, R317.3.1, ALL WOOD IN CONTACT WITH THE GROUND THAT SUPPORTS PERMANENT STRUCTURES INTENDED FOR HUMAN OCCUPANCY SHALL BE APPROVED PRESSURE PRESERVATIVE TREATED WOOD SUITABLE FOR GROUND CONTACT USE AND TREATED IN ACCORDANCE WITH AWPA U1. ALL WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY FOUNDATION WALLS SHALL BE TREATED WOOD OR DECAY-RESISTANT HEARTWOOD OF REDWOOD, BLACK LOCUST, OR CEDARS. CUT ENDS OF PRESSURE-TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA M4. (NOTE: ALL FASTENERS USED IN PRESSURE TREATED LUMBER [SILLS, JOISTS TO SILL, RIM JOIST TO SILL, ETC.] SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER.)

13. POSTS, POLES AND COLUMNS: IRC SECTION R317.1.2, R317.1.4. COLUMNS AND POSTS SUPPORTING PERMANENT STRUCTURES THAT ARE EMBEDDED IN CONCRETE OR IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE WEATHER SHALL BE APPROVED PRESSURE TREATED WOOD SUITABLE FOR GROUND CONTACT USE. POSTS OR COLUMNS WHICH ARE EXPOSED TO WEATHER, OR ARE LOCATED IN BASEMENTS OR CELLARS, SHALL BE SUPPORTED BY PIERS OR METAL PEDESTALS PROJECTING 1 INCH ABOVE THE FLOOR (AND 6" ABOVE EXPOSED EARTH) AND SHALL BE SEPARATED BY AN APPROVED IMPERVIOUS MOISTURE BARRIER, OR MUST BE OF PRESSURE TREATED WOOD, OR WOOD OF NATURAL RESISTANCE TO DECAY. POSTS OR COLUMNS IN ENCLOSED CRAWL SPACES LOCATED WITHIN THE PERIPHERY OF THE BUILDING, SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS SHALL BE GREATER THAN 8 INCHES FROM EXPOSED GROUND AND MUST BE SEPARATED BY A MOISTURE BARRIER OR BE OF PRESSURE TREATED WOOD.

14. GIRDERS ENTERING MASONRY OR CONCRETE WALL: IRC SECTION R317.1(4) ENDS OF WOOD GIRDERS ENTERING CONCRETE OR MASONRY WALLS MUST HAVE A MINIMUM CLEARANCE OF 1/2 INCH ON TOPS, SIDES AND ENDS, OR SHALL BE OF AN APPROVED SPECIES AND GRADE OF LUMBER PRESSURE TREATED OR DECAY RESISTANT HEARTWOOD OF REDWOOD, BLACK LOCUST, BLACK WALNUT OR CEDARS.

15. POST-BEAM CONNECTIONS/FASTENING: IRC R301, R407.3, R502.9. WHERE POSTS AND BEAM OR GIRDER CONSTRUCTION IS USED TO SUPPORT FRAMING, POSITIVE CONNECTIONS SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT AND LATERAL DISPLACEMENT. THE CONSTRUCTION OF BUILDINGS AND STRUCTURES SHALL RESULT IN A SYSTEM THAT PROVIDES A COMPLETE LOAD PATH CAPABLE OF TRANSFERRING ALL LOADS FROM THEIR POINT OF ORIGIN THROUGH THE LOAD RESISTING ELEMENTS TO THE FOUNDATION.

16. SPECIFY WOOD SPECIES & GRADES: IRC SECTIONS R502.1, R602.1 LOAD-BEARING DIMENSION LUMBER FOR JOISTS, BEAMS, GIRDERS, STUDS, PLATES AND HEADERS SHALL BE IDENTIFIED BY A GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20. IN LIEU OF A GRADE MARK, FOR WOOD LOCALLY MILLED, A CERTIFICATE OF INSPECTION ISSUED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THE REQUIREMENTS OF THIS SECTION MAY BE ACCEPTED.

17. FLOOR FRAMING: IRC SECTIONS R502.3, R502.6, R502.6.1, R502.7 THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS THAN 1-1/2" OF BEARING ON WOOD OR METAL OR NOT LESS THAN 3" ON MASONRY OR CONCRETE. JOISTS FRAMING FROM OPPOSITE SIDES OVER A BEARING SUPPORT SHALL LAP A MINIMUM OF 3 INCHES AND SHALL BE NAILED TOGETHER WITH A MINIMUM THREE 10D FACE NAILS. JOISTS SHALL BE SUPPORTED LATERALLY AT EACH END AND AT EACH INTERMEDIATE SUPPORT BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL THICKNESS: OR BY ATTACHMENT TO A HEADER, BAND, OR RIM JOIST; OR SHALL BE OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION. SEE IRC TABLES R502.3.1 (1) & (2) FOR FLOOR JOIST SPANS, R502.5 (1) & (2) FOR GIRDER SPANS, AND R502.3.3 (1) & (2) FOR CANTILEVER SPANS. A LOAD PATH FOR LATERAL FORCES SHALL BE PROVIDED BETWEEN FLOOR FRAMING AND BRACED WALL PANELS LOCATED ABOVE OR BELOW A FLOOR

18. BEARING PARTITIONS: IRC SECTION 502.4. JOISTS UNDER PARALLEL BEARING PARTITIONS SHALL BE OF ADEQUATE SIZE (AS A BEAM) TO SUPPORT THE LOAD. DOUBLE JOISTS, SIZED TO ADEQUATELY SUPPORT THE LOAD, THAT ARE SEPARATED TO PERMIT THE INSTALLATION OF PIPING OR VENTS SHALL BE FULL-DEPTH, SOLID-BLOCKED WITH LUMBER NOT LESS THAN 2 INCHES IN NOMINAL THICKNESS SPACED NOT MORE THAN 4 FEET ON CENTER. BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH UNLESS SUCH JOISTS ARE OF SUFFICIENT SIZE TO CARRY THE ADDITIONAL LOAD(S).

19. UNDER-FLOOR CLEARANCE: IRC SECTION 317.1. WHEN FLOOR JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR ARE LOCATED WITHIN 18" OR WOOD GIRDERS ARE LOCATED WITHIN 12" TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREA LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION, ALL COMPONENTS OF THE FLOOR ASSEMBLY SHALL BE PRESSURE TREATED WOOD OR WOOD OF NATURAL RESISTANCE TO DECAY, INCLUDING ALL POSTS, BEAMS OR GIRDERS, JOISTS AND SUB-FLOOR. THE UNDER-FLOOR GRADE SHALL BE CLEANED OF ALL VEGETATION AND ORGANIC MATERIAL. ALL WOOD FORMS USED FOR PLACING CONCRETE AND CONSTRUCTION MATERIALS SHALL BE REMOVED BEFORE THE BUILDING IS OCCUPIED

20. UNDER-FLOOR ACCESS: IRC SECTION 408.4. ACCESS SHALL BE PROVIDED TO ALL UNDER-FLOOR SPACES. ACCESS OPENINGS THROUGH THE FLOOR SHALL BE A MINIMUM OF 18" X 24". OPENINGS THROUGH A PERIMETER WALL SHALL BE AT LEAST 16" X 24". WHEN ANY PORTION OF THE THROUGH WALL ACCESS IS BELOW GRADE, AN AREAWAY OF NOT LESS THAN 16" X 24" SHALL BE PROVIDED. THE BOTTOM OF 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. UNDERFLOOR SPACES CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO REMOVE THE LARGEST APPLIANCE BUT NOT LESS THAN 30" HIGH BY 22" WIDE, NOR MORE THAN 20' LONG FROM THE OPENING TO THE APPLIANCE. A LEVEL SERVICE SPACE OF AT LEAST 30" BY 30" SHALL BE PROVIDED AT THE FRONT OR SERVICE SIDE OF THE APPLIANCE. SEE M1305.1.4 FOR DETAILS OF MECHANICAL EQUIPMENT ACCESS.

21. WALL FRAMING: IRC SECTIONS 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.6 & 602.9. STUDS SHALL BE A MINIMUM NO. 3, STANDARD OR STUD GRADE LUMBER, EXCEPT THAT UTILITY STUDS MAY BE USED FOR BEARING STUDS NOT SUPPORTING A FLOOR ABOVE OR NONBEARING STUDS. UTILITY GRADE STUDS SHALL NOT BE SPACED MORE THAN 16" ON CENTER, SUPPORT MORE THAN A ROOF AND CEILING, OR EXCEED 8' IN HEIGHT FOR EXTERIOR AND LOAD BEARING WALLS. THE SIZE, HEIGHT AND SPACING OF ALL OTHER WOOD-FRAMING STUDS SHALL BE IN ACCORDANCE WITH TABLE R602.3.(5). (MAXIMUM 10 FEET IN SEISMIC DESIGN CATEGORY D2.) STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL. WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. END JOINTS SHALL BE OFFSET AT LEAST 24". STUDS SHALL HAVE FULL BEARING ON A NOMINAL 2" OR

LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS. WHERE JOISTS, TRUSSES, OR RAFTERS ARE SPACED MORE THAN 16" O.C. AND THE BEARING STUDS ARE SPACED 24" O.C. SUCH MEMBERS SHALL BEAR WITHIN 5" OF THE STUDS BENEATH. CUTTING AND NOTCHING: MAY NOT EXCEED 25% OF THE STUD WIDTH IN BEARING OR EXTERIOR WALLS AND MAY NOT EXCEED 40% OF A SINGLE STUD WIDTH IN NON-BEARING PARTITIONS. BORED OR DRILLED HOLES: THE DIAMETER OF THE RESULTING HOLE MAY NOT EXCEED 40% OF THE STUD WIDTH. CAN BE NO CLOSER THAN 5/8" TO THE EDGE OF THE STUD. AND MAY NOT BE LOCATED IN THE SAME SECTION AS A CUT OR NOTCH. SEE IRC SECTION R602.6 FOR EXCEPTIONS SEE IRC FIGURES R602.6 (1), R602.6.2 (2), AND R602.6.1 FOR ADDITIONAL DETAILS, FOUNDATION CRIPPLE WALLS, IRC SECTION R602.9: FOUNDATION CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN THE STUDDING ABOVE. WHEN EXCEEDING 4'-0" IN HEIGHT, SUCH WALLS SHALL BE FRAMED OF STUDS HAVING THE SIZE REQUIRED FOR AN ADDITIONAL STORY. CRIPPLE WALLS WITH A STUD HEIGHT LESS THAN 14" SHALL BE SHEATHED ON AT LEAST ONE SIDE WITH A WOOD STRUCTURAL PANEL THAT IS FASTENED TO BOTH THE TOP AND BOTTOM PLATES IN ACCORDANCE WITH TABLE R602.3(1) OR THE CRIPPLE WALLS SHALL BE CONSTRUCTED OF SOLID BLOCKING. CRIPPLE WALLS IN SEISMIC DESIGN CATEGORY D2 SHALL BE SUPPORTED ON CONTINUOUS FOUNDATIONS.

22. WALL BRACING: IRC SECTION 602.10. ALL BRACED WALLS AND CRIPPLE WALL BRACING IN SEISMIC DESIGN CATEGORY D2 SHALL BE CONSTRUCTED IN ACCORDANCE WITH IRC TABLE R602.10.1.2(1), (2), AND (3) AND SECTIONS R602.10 AND R602.11. TYPICALLY BRACED WALL PANELS REQUIRE NAILING PATTERNS OF 6" O.C. ALONG ALL PANEL EDGES. ALL SHEATHING JOINTS MUST BE OVER STUDS (VERTICALLY) OR SOLID BLOCKING (HORIZONTALLY).

A. BRACED WALL PANELS SHALL BEGIN NO MORE THAN 8' 0" FROM EACH END OF A BRACED WALL LINE. IF THE BRACED WALL PANEL IS NOT LOCATED AT THE CORNER, THEN A 24" PANEL IS REQUIRED AT THE

CORNER (IN ADDITION TO THE 4' BWP WITHIN 8') OR, A HOLD DOWN DEVICE IS REQUIRED AT THE END OF THE BRACED WALL PANEL END NEAREST THE CORNER. B. SPACING OF INTERIOR BRACED WALL LINES SHALL NOT EXCEED 25 FEET APART (EXCEPT TO ACCOMMODATE UP TO ONE ROOM UP TO 900 SQUARE FEET, AN INCREASE TO 35' IS ALLOWED -ADJUSTMENT FACTORS WILL APPLY, SEE IRC R602.10.1.5). C. BRACED WALL LINES MAY HAVE OFFSETS, OUT OF PLANE OF UP TO 4'0". D. IN ONE-STORY BUILDINGS, BRACED WALL PANELS SHALL BE SUPPORTED ON CONTINUOUS FOUNDATIONS AT INTERVALS NOT EXCEEDING 50 FEET. IN TWO- STORY BUILDINGS ALL INTERIOR BRACED WALL PANELS SHALL BE SUPPORTED ON CONTINUOUS FOUNDATIONS. (SEE EXCEPTIONS IN IRC SECTION R602.10.7.1.) E. INTERIOR BRACED WALL PANELS SHALL BE FASTENED TO BOTH THE FLOOR AND ROOF FRAMING IN ACCORDANCE WITH TABLE R602.3(1) (TYPICALLY 3-16D @ 16" O.C.) F. CRIPPLE WALLS SHALL BE BRACED AS BRACED WALL PANELS IN ACCORDANCE WITH IRC R602.10.9.1 AND TABLES R602.10.1.2 (1) AND (2). A CRIPPLE WALL GREATER THAN 4' SHALL BE DESIGNATED AS THE FIRST STORY WALL FOR PURPOSES OF DESIGNATING THE WALL BRACING REQUIREMENTS (R602.10.7.1). G. WHERE "STEPPED FOUNDATIONS" OCCUR, SEE IRC SECTION R602.11.2 FOR ADDITIONAL REQUIREMENTS SUCH AS PLATE STRAPPING, CRIPPLE WALL HEIGHT LIMITATIONS, ETC. H. SEE THE ATTACHED "BRACED WALL PANEL" AND "ALTERNATE BRACED WALL PANEL" DETAILS FOR TYPICAL CONSTRUCTION REQUIREMENTS.

23. OPENINGS IN EXTERIOR & INTERIOR WALLS (HEADERS): IRC SECTION R602.7. HEADERS SHALL BE PROVIDED OVER EACH OPENING IN INTERIOR AND EXTERIOR BEARING WALLS. HEADERS SHALL BE SIZED TO SUPPORT THE LOAD ABOVE IN ACCORDANCE WITH IRC TABLES R502.5(1) AND R502.5(2), OR AS DESIGNED TO SUPPORT THE LOADS AS SPECIFIED IN IRC TABLE R301.5. ALTERNATELY, WOOD STRUCTURAL BOX HEADERS MAY BE USED IN ACCORDANCE WITH IRC SECTION R602.7.1, TABLE R602.7.2 AND FIGURE R602.7.2. EACH END OF ALL HEADERS SHALL HAVE AT LEAST 1.5" OF FULL-WIDTH BEARING.

24. FIRE-BLOCKS & DRAFT-STOPS: IRC SECTIONS R602.8, R502.12. FIRE BLOCKING & DRAFT STOPPING SHALL BE INSTALLED TO CUT OFF ALL CONCEALED VERTICAL AND HORIZONTAL DRAFT OPENINGS AND SHALL FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIRE BLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF WOOD STUD WALLS AND PARTITIONS: VERTICALLY AT THE CEILING AND FLOOR LEVELS; HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET; AND AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS. AS WELL AS STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND OPENINGS AROUND VENTS, PIPES AND DUCTS AT CEILING AND FLOOR LEVELS. FIRE BLOCKING MATERIALS SHALL CONSIST OF MATERIALS LISTED IN IRC SECTION R602.8.1. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED. FIRE BLOCKING OF CHIMNEYS AND FIREPLACES SHALL BE IN ACCORDANCE WITH IRC SECTION R1001.16. WHEN THERE IS USABLE SPACE BOTH ABOVE AND BELOW A CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLY, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFT STOPPING MATERIALS SHALL CONSIST OF MATERIALS LISTED IN SECTION R502.12.1. ALL FIRE BLOCKING AND DRAFT STOPPING SHALL BE IN PLACE PRIOR TO REQUESTING A FRAMING INSPECTION.

25. SIDING TYPE IRC SECTION R703.3, R703.4, R703.5, R703.8, R703.9, R703.10, TABLE R703.4. EXTERIOR WALL COVERINGS SHALL BE INSTALLED, ATTACHED AND FLASHED IN ACCORDANCE WITH THE PROVISIONS OF IRC SECTION R703 AND THE SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS. PLEASE NOTE THAT MASONRY WALL COVERINGS EXCEEDING 3" IN THICKNESS REQUIRE AN ENGINEERED DESIGN IN SEISMIC DESIGN CATEGORY D2 (ALL OF KITSAP COUNTY). SEE #67

26. WEATHER RESISTIVE BARRIER: IRC SECTIONS R701.2, R703.2, R703.4 R703.8, R703.9.1 PRODUCTS SENSITIVE TO ADVERSE WEATHER SHALL NOT BE INSTALLED UNTIL ADEQUATE WEATHER PROTECTION FOR THE INSTALLATION IS PROVIDED. EXTERIOR SHEATHING SHALL BE DRY BEFORE APPLYING EXTERIOR COVER. THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR VENEER. ASPHALT-SATURATED FELT OR OTHER APPROVED WEATHER RESISTANT MATERIAL SUCH AS HOUSE WRAP SHALL BE APPLIED OVER THE SHEATHING OF ALL EXTERIOR WALLS EXCEPT WHERE PANEL SIDING WITH SHIPLAP JOINTS OR OTHER APPROVED WEATHER RESISTIVE METHODS ARE USED. SUCH FELT OR HOUSE WRAP MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2". APPROVED CORROSION-RESISTIVE FLASHING SHALL BE PROVIDED IN ALL EXTERIOR WALLS IN SUCH A MANNER AS TO PREVENT ENTRY OF WATER INTO THE WALL OR THE BUILDING STRUCTURAL FRAMING COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH AND SHALL BE INSTALLED TO PREVENT WATER FROM REENTERING THE EXTERIOR WALL ENVELOPE. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT EXTERIOR WINDOW AND DOOR OPENINGS; AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION, WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS; UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS; CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM; WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION; AT WALL AND ROOF INTERSECTIONS; AND AT BUILT-IN GUTTERS.

27. ANCHORED STONE AND MASONRY VENEER: IRC SECTION R301.2.2.3.2. **** ENGINEERING REQUIRED **** BUILDINGS WITH ANCHORED STONE AND MASONRY VENEER SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE EXCEPT WHERE THE MASONRY VENEER HAS A MAXIMUM ACTUAL THICKNESS OF 3 INCHES AS PERMITTED WITHIN THE LIMITATIONS OF IRC SECTION R703.7, EXCEPTION 2.

CHECKLIST.

28. SIDING/EARTH SEPARATION: IRC SECTION R317. WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF THE BUILDING USED WITHIN 6" OF EARTH SHALL BE PRESSURE TREATED WOOD OR WOOD OF NATURAL RESISTANCE TO DECAY AS IDENTIFIED IN ITEM #52 OF THIS

29. DECKS & EXTERIOR STAIRS: IRC SECTION R317, R502.2.2. PRESSURE TREATED WOOD SHALL BE USED FOR THOSE PORTIONS OF EXPOSED WOOD MEMBERS AND MEMBERS SUBJECT TO WIND DRIVEN RAIN, SUCH AS WITHIN A COVERED PORCH, THAT FORM THE STRUCTURAL SUPPORTS OF BUILDINGS, BALCONIES, PORCHES OR SIMILAR APPURTENANCES, INCLUDING ALL JOISTS, BEAMS, GIRDERS, DECKING AND POSTS, POLES AND COLUMNS. TREATMENT MUST BE APPLIED BY MANUFACTURER, SEE ITEM #52 OF THIS CHECK-LIST. LEDGER BOARDS FASTENED TO A WALL SHALL BE PROPERLY FLASHED AND POSITIVELY CONNECTED. WHERE SUPPORTED BY ATTACHMENT TO AN EXTERIOR WALL, DECKS SHALL BE POSITIVELY ANCHORED TO THE PRIMARY STRUCTURE AND DESIGNED FOR BOTH VERTICAL AND LATERAL LOADS AS APPLICABLE. SUCH ATTACHMENT SHALL NOT BE ACCOMPLISHED BY THE USE OF TOENAILS OR NAILS SUBJECT TO WITHDRAWAL.

30. WOOD TRUSSES: IRC SECTION R502.11, R802.10. WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE. ENGINEERING DATA AND INSTALLATION SPECIFICATIONS, INCLUDING THE TYPE OF ROOFING TO BE USED, SHALL BE AVAILABLE ON SITE AT FRAMING INSPECTION. TRUSSES SHALL BE SUPPORTED LATERALLY AT POINTS OF BEARING BY SOLID BLOCKING TO PREVENT ROTATION AND LATERAL DISPLACEMENT, AND BRACED IN ACCORDANCE WITH THE INDIVIDUAL TRUSS DESIGN DRAWINGS. TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE SPECIFIC APPROVAL OF A REGISTERED DESIGN PROFESSIONAL (STRUCTURAL CALCULATIONS REQUIRED). ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G., HVAC EQUIPMENT, WATER HEATERS, ETC.) THAT EXCEED THE DESIGN LOAD SHALL NOT BE PERMITTED WITHOUT SPECIFIC ENGINEERING JUSTIFYING THE DESIGN.

31. RAFTERS: IRC SECTION R802.3, R802.8 RAFTERS SHALL BE FRAMED TO RIDGE BOARD OR TO EACH OTHER WITH A GUSSET PLATE AS A TIE. THE RIDGE BOARD SHALL BE AT LEAST 1" NOMINAL THICKNESS, AND ALL VALLEY OR HIP RAFTERS SHALL BE AT LEAST 2" NOMINAL THICKNESS. RAFTER TIES SHALL BE PLACED NOT MORE THAN 4' ON CENTER. SEE IRC TABLES 802.5.1(1) THROUGH 802.5.1(8) FOR ALLOWABLE SPANS. WHEN THE DEPTH- TO-THICKNESS RATIO EXCEEDS 5 TO 1 THE ROOF RAFTERS AND CEILING JOISTS SHALL BE PROVIDED LATERAL SUPPORT AT POINTS OF BEARING TO PREVENT ROTATION.

32. RAFTER OPENINGS: IRC SECTION R802.9. WHEN THE HEADER JOIST SPAN DOES NOT EXCEED 4', THE HEADER JOIST MAY BE A SINGLE MEMBER THE SAME SIZE AS THE CEILING JOIST OR RAFTER. SINGLE TRIMMER JOISTS MAY BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3' OF THE TRIMMER JOIST BEARING, TRIMMER AND HEADER RAFTERS SHALL BE DOUBLED AND OF SUFFICIENT SIZE TO SUPPORT ALL LOADS WHEN THE SPAN OF THE HEADER EXCEEDS 4'. APPROVED HANGERS SHALL BE USED WHEN THE SPAN EXCEEDS 6'. TAIL JOISTS OVER 12' LONG SHALL BE SUPPORTED AT THE HEADER BY FRAMING ANCHORS OR ON LEDGER STRIPS NOT LESS THAN 2" X 2".

33. CEILING JOISTS: IRC SECTIONS R802.4, R802.8, AND R802.8.1 CEILING JOIST SPANS SHALL BE IN ACCORDANCE WITH IRC TABLES R802.4 (1) AND R802.4 (2) OR SPECIFICALLY DESIGNED FOR APPLIED LOADS. RAFTERS AND CEILING JOISTS HAVING A DEPTH- TO-THICKNESS RATIO EXCEEDING 5 TO 1 SHALL BE PROVIDED WITH LATERAL SUPPORT AT POINTS OF BEARING TO PREVENT ROTATION. RAFTERS AND CEILING JOISTS HAVING A DEPTH-TO-THICKNESS RATIO EXCEEDING 6 TO 1 SHALL BE SUPPORTED LATERALLY BY SOLID BLOCKING, DIAGONAL BRIDGING (WOOD OR METAL) OR CONTINUOUS 1" X 3" WOOD STRIP NAILED ACROSS THE RAFTER CEILING JOISTS AT INTERVALS NOT EXCEEDING 8'.

34. ROOF SHEATHING: IRC SECTION R803. ALLOWABLE SPANS FOR LUMBER USED AS ROOF SHEATHING SHALL CONFORM TO TABLE R803.1 SPACED LUMBER SHEATHING ("SKIP SHEATHING") IS PROHIBITED IN SEISMIC DESIGN CATEGORY D2. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY AND SHALL COMPLY WITH THE GRADES AND SPANS SPECIFIED IN TABLE R503.2.1.1 (1).

35. ROOF DRAINAGE & COVERING IRC SECTION R801.3, R903, R904, R905. ALL STRUCTURES SHALL HAVE A CONTROLLED METHOD OF WATER COLLECTION AND DISPOSAL FROM ROOFS (TYPICALLY GUTTERS). WATER SHALL DISCHARGE TO AN APPROVED DRAINAGE SYSTEM OR TO SPLASH BLOCKS WHERE A DRAINAGE SYSTEM IS NOT REQUIRED. ROOFS THAT DO NOT DRAIN OVER EDGES SHALL HAVE ROOF DRAINS INSTALLED AT THE LOW POINT OF THE ROOF AS WELL AS OVERFLOW DRAINS. SEE IRC R903.4. ROOF SLOPE SHALL BE INDICATED ON THE PLANS AND SELECTED ROOF COVERING MUST BE APPROPRIATE FOR THE ROOF PITCH. ROOF COVERINGS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FLASHING SHALL BE INSTALLED AT WALL & ROOF INTERSECTIONS, AT CHANGES IN ROOF SLOPE OR DIRECTION, AND AROUND ROOF OPENINGS. WHERE FLASHING IS METAL, THE METAL SHALL BE CORROSION-RESISTANT WITH A MINIMUM THICKNESS OF 0.019 INCH (NO. 26 GALVANIZED SHEET). ROOF DEAD LOADS ARE LIMITED TO A MAXIMUM OF 15 POUNDS PER SQUARE FOOT UNLESS THE ADDITIONAL BRACING PROVISIONS OF R301.2.2.2.1 ARE PROVIDED.

36. ATTIC VENTILATION: IRC SECTION R806. ENCLOSED ATTICS AND RAFTER SPACES SHALL HAVE CROSS VENTILATION. FOR EACH SEPARATE SPACE, THE TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED, THE TOTAL AREA IS PERMITTED TO BE REDUCED TO 1 TO 300, PROVIDED AT LEAST 50% AND NOT MORE THAN 80% OF THE REQUIRED VENTILATING AREA IS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3' ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS, VENT OPENINGS SHALL BE PROVIDED WITH CORROSION RESISTANT WIRE MESH WITH 1/8" MINIMUM TO 1/4" MAXIMUM OPENINGS. A MINIMUM OF A 1-INCH AIRSPACE MUST BE MAINTAINED BETWEEN THE INSULATION AND THE ROOF SHEATHING AT THE LOCATIONS OF THE VENTS.

37. CHIMNEY HEIGHT: IRC R1003.9. R1003.20. CHIMNEYS SHALL EXTEND AT LEAST 2' HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10', BUT SHALL NOT BE LESS THAN 3' ABOVE THE HIGHEST POINT WHERE THE

CHIMNEY PASSES THROUGH THE ROOF. CHIMNEYS SHALL BE PROVIDED WITH CRICKETS WHEN THE DIMENSION PARALLEL TO THE RIDGELINE IS GREATER THAN 30" AND DOES NOT INTERSECT THE RIDGELINE. THE CRICKET AND CHIMNEY SHALL BE BUILT & FLASHED ACCORDING TO FIGURE R1003.20 AND TABLE R1003.20.

CODE NOTES / ENERGY:

1. FOUNDATION INSULATION: IECC R402.2.9. SLAB-ON-GRADE INSULATION, AT LEAST R-10 INSTALLED INSIDE THE FOUNDATION WALL, SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM DISTANCE OF 24" OR DOWNWARD AND THEN HORIZONTALLY BENEATH THE SLAB FOR A MINIMUM COMBINED DISTANCE OF 24". FOR SLABS INSTALLED INSIDE A FOUNDATION WALL, THE INSULATION SHALL BE INSTALLED TO PROVIDE A THERMAL BREAK BETWEEN THE SLAB EDGE AND THE FOUNDATION. INSULATION INSTALLED OUTSIDE THE FOUNDATION SHALL EXTEND FROM THE TOP OF THE BELOW-GRADE WALL TO THE TOP OF THE FOOTING. INSULATION USED ON THE INTERIOR SIDE OF THE WALL SHALL EXTEND FROM THE TOP OF THE BELOW-GRADE WALL TO THE BELOW-GRADE FLOOR LEVEL. ABOVE GRADE INSULATION SHALL BE PROTECTED.

2. UNDER-FLOOR INSULATION: IECC R402.2.7. FLOORS OVER UNCONDITIONED SPACES, SUCH AS VENTED CRAWL SPACES, UNCONDITIONED BASEMENTS AND GARAGES SHALL BE INSULATED WITH AT LEAST R-30 INSULATION. INSULATION SUPPORTS SHALL HOLD INSULATION IN SUBSTANTIAL CONTACT WITH THE SUBFLOOR AND SHALL BE INSTALLED SUCH THAT SPACING IS NO MORE THAN 24 INCHES ON CENTER

3. WALL INSULATION: IECC TABLE R402.1.1 ABOVE GRADE EXTERIOR WALLS SHALL BE INSULATED WITH MINIMUM R-21 INSULATION FACED BATTS SHALL BE FACE-STAPLED (NOT INSET-STAPLED) TO AVOID COMPRESSION. BELOW GRADE WALLS SHALL BE INSULATED EITHER ON THE EXTERIOR TO A MINIMUM LEVEL OF R-10, OR ON THE INTERIOR TO THE SAME LEVEL AS WALLS ABOVE GRADE. HEADERS SHALL BE INSULATED WITH MINIMUM R-10 INSULATION.

4. ATTIC INSULATION: IECC TABLE R402.1.1. WHERE EAVE VENTS ARE INSTALLED RIGID BAFFLES SHALL BE INSTALLED TO DEFLECT THE INCOMING AIR ABOVE SURFACE OF THE INSULATION.

5. VAULTED CEILING INSULATION: IECC R402.2.1.1. OPEN-BLOWN OR POURED LOOSE FILL INSULATION MAY BE USED IN ATTIC SPACES WHERE THE SLOPE OF THE CEILING IS NOT MORE THAN 3 FEET IN 12 AND THERE IS AT LEAST 30 INCHES OF CLEAR DISTANCE FROM THE TOP OF THE BOTTOM CHORD OF THE TRUSS OR CEILING JOIST TO THE UNDERSIDE OF THE SHEATHING AT THE ROOF RIDGE. A MINIMUM OF 1" OF AIRSPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150TH OF THE AREA OF THE SPACE VENTILATED, WITH 50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3' ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. WHEN FEASIBLE, THE BAFFLES SHALL BE INSTALLED FROM THE TOP OF THE OUTSIDE OF THE EXTERIOR WALL, EXTENDING INWARD, TO A POINT 6" VERTICALLY ABOVE THE HEIGHT OF NON-COMPRESSED INSULATION, AND 12" VERTICALLY ABOVE LOOSE FILL INSULATION. ROOF/CEILING ASSEMBLIES WHERE THE VENTILATION SPACE ABOVE THE INSULATION IS LESS THAN AN AVERAGE OF 12 INCHES SHALL BE PROVIDED WITH A VAPOR RETARDER. FACED BATT INSULATION WHERE USED AS A VAPOR RETARDER SHALL BE FACE STAPLED. SINGLE RAFTER JOIST VAULTED CEILING CAVITIES SHALL BE OF SUFFICIENT DEPTH TO ALLOW A MINIMUM 1" VENTED AIR SPACE ABOVE THE INSULATION.

6. HATCHES AND DOORS: IECC R402.2.4. ACCESS DOORS FROM CONDITIONED TO UNCONDITIONED SPACES (SUCH AS ATTIC AND CRAWL SPACE ACCESS DOORS) SHALL BE WEATHER-STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER MUST BE PROVIDED WHEN LOOSE FILL INSULATION IS INSTALLED, THE PURPOSE OF WHICH IS TO PREVENT THE LOOSE FILL INSULATION FROM SPILLING INTO THE LIVING SPACE WHEN THE ATTIC ACCESS IS OPENED, AND TO PROVIDE A PERMANENT MEANS OF MAINTAINING THE INSTALLED R-VALUE OF THE LOOSE FILL INSULATION.

7. DUCT INSULATION: IECC R403.2.1. ALL HEATING DUCTS WITHIN UNCONDITIONED SPACES SHALL BE INSULATED TO A MINIMUM OF R-8. DUCTS INSTALLED UNDER SLABS SHALL BE INSULATED TO A MINIMUM OF R5.

8. PIPE INSULATION: IECC R403. HOT WATER PIPES OUTSIDE OF THE CONDITIONED SPACE SHALL BE INSULATED TO A MINIMUM OF R-4.

9. VAPOR RETARDER: IRC R601.3. VAPOR RETARDERS SHALL BE INSTALLED ON THE WARM SIDE (IN WINTER) OF INSULATION. VAPOR RETARDERS ARE NOT REQUIRED IN ROOF/CEILING ASSEMBLIES WHERE THE VENTILATION SPACE ABOVE THE INSULATION AVERAGES 12" OR GREATER OR WHERE ALL OF THE INSULATION IS INSTALLED BETWEEN THE ROOF MEMBRANE AND THE STRUCTURAL ROOF DECK.. FACED BATT INSULATION WHERE USED AS A VAPOR RETARDER SHALL BE FACED STAPLED.

10. VAPOR BARRIER IN CRAWL-SPACE: IRC R408.1. A GROUND COVER OF 6 MIL BLACK POLYETHYLENE SHALL BE LAID OVER THE GROUND WITHIN CRAWL SPACES. THE GROUND COVER SHALL BE OVERLAPPED 12" MINIMUM AT THE JOINTS AND SHALL EXTEND TO THE FOUNDATION WALL.

11. WINDOW OR WALL PORTS: IRC SECTION M1508.4.5.. OUTDOOR AIR SHALL BE DISTRIBUTED TO EACH HABITABLE ROOM BY INDIVIDUAL OUTDOOR AIR INLETS. INDIVIDUAL ROOM OUTDOOR AIR INLETS SHALL HAVE A CONTROLLABLE AND SECURE OPENING AND BE CAPABLE OF A TOTAL OPENING AREA OF NOT LESS THAN 4 SQUARE INCHES. OUTDOOR AIR INLETS SHALL BE LOCATED SO AS NOT TO TAKE AIR FROM WITHIN 10 FEET OF A PLUMBING VENT OPENING, OR AN APPLIANCE VENT OUTLET, OR WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMMABLE VAPORS

12. MAKE-UP THROUGH FURNACE: IRC M1508.5.1. INTEGRATED FORCED-AIR VENTILATION SYSTEMS SHALL DISTRIBUTE OUTDOOR AIR TO EACH HABITABLE ROOM THROUGH THE FORCED-AIR SYSTEM DUCTS. INTEGRATED FORCED-AIR VENTILATION SYSTEMS SHALL HAVE AN OUTDOOR AIR INLET DUCT CONNECTING A TERMINAL ELEMENT ON THE OUTSIDE OF THE BUILDING TO THE RETURN AIR PLENUM OF THE FORCED-AIR SYSTEM, AT A POINT WITHIN 4 FEET UPSTREAM OF THE AIR HANDLER. THE OUTDOOR AIR INLET DUCT CONNECTION TO THE RETURN AIR STREAM SHALL BE LOCATED UPSTREAM OF THE FORCED-AIR SYSTEM BLOWER AND SHALL NOT BE CONNECTED DIRECTLY INTO A FURNACE CABINET TO PREVENT THERMAL SHOCK TO THE HEAT EXCHANGER. THE SYSTEM WILL BE EQUIPPED WITH A MOTORIZED DAMPER CONNECTED TO THE AUTOMATIC VENTILATION CONTROL. THE REQUIRED FLOW RATE SHALL BE VERIFIED BY FIELD TESTING WITH A FLOW HOOD OR A FLOW MEASURING STATION. THE WHOLE HOUSE VENTILATION SYSTEM SHALL BE CONTROLLED BY A 24-HOUR CLOCK TIMER WITH THE CAPABILITY OF CONTINUOUS OPERATION, MANUAL AND AUTOMATIC CONTROL. THIS CONTROL WILL CONTROL THE FORCED AIR SYSTEM BLOWER AND THE AUTOMATIC DAMPER. THE 24-HOUR TIMER SHALL BE READILY ACCESSIBLE. THE 24-HOUR TIMER SHALL BE CAPABLE OF OPERATING THE WHOLE HOUSE VENTILATION SYSTEM WITHOUT ENERGIZING OTHER ENERGY-CONSUMING APPLIANCES. AT THE TIME OF FINAL INSPECTION, THE AUTOMATIC CONTROL TIMER SHALL BE SET TO OPERATE THE WHOLE HOUSE SYSTEM FOR AT LEAST 8 HOURS A DAY. A LABEL SHALL BE AFFIXED TO THE CONTROL THAT READS "WHOLE HOUSE VENTILATION (SEE OPERATING INSTRUCTIONS)."

98. ENERGY CODE COMPLIANCE CERTIFICATE: IECC R401.3. A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN THREE FEET OF THE ELECTRICAL DISTRIBUTION PANEL. THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BASEMENT WALL, CRAWLSPACE WALL AND/OR FLOOR), AND DUCTS OUTSIDE THE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION; AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION.

FIGURÉ 1: TYPICAL PRESCRIPTIVE BRACED WALL PANEL (PER IRC TABLE R402.10.2)

THERMAL REQUIREMENTS

MINIMUM REQUIREMENTS BASED ON WSEC TABLE R402.1.1. THESE REQUIREMENTS MAY BE MODIFIED TO MORE STRINGENT EFFICIENT BUILDING ENVELOPE TO COMPLY WITH PRESCRIPTIVE REQUIREMENTS BASED ON CREDIT SYSTEM. PLEASE REFER TO COVER PAGE FOR PROJECT SPECIFIC THERMAL REQUIREMENTS.

WALLS:

CLIMATE ZONE: 4C, KING COUNTY, WA <u>GLAZING:</u>

WINDOWS: U.30 SKYLIGHTS: U.50

CEILING:

FLAT: R-49 VAULTED: R-38

FLOOR:

SLAB ON GRADE

INSULATED ON THE INTERIOR: R-15 CONTINUOUS R-21 CAVITY R-13 CAVITY WITH R-5 CONTINUOUS INSTALLED ON THE INSIDE OR OUTSIDE OF THE WALL INSULATED ON THE EXTERIOR **R-10 CONTINUOUS**

ABOVE GRADE: R-21 (INTERMEDIATE FRAMED)

BASEMENT WALLS (BELOW GRADE):



Architecture Planning **Construction Management**

197 Parfitt Way SW, Suite 120 Bainbridge Island, WA 98110 206.780.9113 bcandj.com

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MEMBER: AIA AMERICAN INSTITUTE OF ARCHITECTS NATIONAL COUNCIL OF ARCHITECTURAL **REGISTRATION BOARDS**

PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET

REVISIONS

NO. DESCRIPTION

1 PERMIT SET 2 PERMIT COMMENTS

DATE 01/02/23 04/11/23

SHEET NAME GENERAL NOTES

SHEET NUMBER



LEGAL DESCRIPTION

LOTS 13, 14 AND 15, BLOCK 10, OF EAST SEATTLE ADDITION, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 3 OF PLATS, PAGE 22, IN KING COUNTY, WASHINGTON; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

BASIS OF BEARINGS

ACCEPTED A BEARING OF N 0°25'17" E ALONG THE CENTERLINE OF 70TH AVENUE PER RECORD OF SURVEY RECORDED UNDER KING COUNTY RECORDING NO. 20130509900005.

PROJECT INFORMATION

SURVEYOR:

PROPERTY OWNER:

TAX PARCEL NUMBER: PROJECT ADDRESS:

ZONING: JURISDICTION: PARCEL ACREAGE: SITE SURVEYING, INC. 21923 NE 11TH ST SAMMAMISH, WA 98074 PHONE: 425.298.4412 JOHN BICKEL 2734 70TH AVENUE SE MERCER ISLAND, WA 98040 217450-2150 2734 70TH AVENUE SE MERCER ISLAND, WA 98040 R-8.4 CITY OF MERCER ISLAND 10,125 S.F. (± 0.232 ACRES) AS SURVEYED SSMH RIM = 481.97' —

SE

/ENUE

K

70TH

SSMH RIM = 497.85' —

INV N-S = 490.25'

INV N-S = 468.47'

GENERAL NOTES

DATUM

- 1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- 2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND NIKON NIVO 5.C TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN MAY 2014 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- 5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

VERTICAL DATUM & CONTOUR INTERVAL

ELEVATIONS SHOWN ON THIS DRAWING ARE ON AN ASSUMED DATUM.

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.





VICINITY MAP

EGEN	ID
\ominus	FOUND MONUMENT AS DESCRIBED
•	SET REBAR & CAP (38964)
P	POWER METER
0	GAS METER
X	LIGHT POLE
Τ	TELEPHONE PEDESTAL
EVLT	ELECTRICAL VAULT
\bigcirc	SANITARY SEWER MANHOLE
E	ELECTRICAL JUNTION BOX
С	CABLE HAND HOLE
\blacksquare	WATER METER
\bowtie	WATER VALVE
EVLT	ELECTRICAL VAULT
- SS	APPROXIMATE LOCATION SANITARY SEWER LINE
- SD	APPROXIMATE LOCATION STORM DRAIN LINE
— X —	CHAINLINK FENCE
VVVV	CONCRETE WALL
	WOOD FENCE
	GRAVEL SURFACE
	ASPHALT SURFACE
A	CONCRETE SURFACE
DS	DECIDUOUS
DF	DOUGLAS FIR
CE	CEDAR
MP	MAPLE
* INDICA	TES MULTI-TRUNK





ARCHITECTURAL SITE NOTES

9. 10.

LOWEST eLEVATION POINT = 484' ELEVATION DIFFERENCE = 6' DISTANCE BETWEEN POINTS = 85' SLOPE =7%

LOT AREA: LOT COVERAGE: 33% (SEE PLAN FOR DETAIL)

LOT AREA: PROPOSED HARDSCAPE: 899 SF LOT COVERAGE: 9% (SEE PLAN FOR DETAIL)

40% OF 9900=3960SF

BUILDING AREA LOCATION ACCESSORY GARAGE BASEMENT FIRST FLOOR SECOND FLOOR

BUILDING HEIGHT LIMIT = 30' AVERAGE GRADE CALCULATION: SEGMENTS) TOP OF (E) ROOF (NO CHANGE) = 511.7 BUILDING HEIGHT = 22.41'

PROJECT ADDRESS: 2734 70TH AVE SE MERCER ISLAND, WA 98040 ASSESSOR'S PARCEL NUMBER: 217450-2150

LEGAL DESCRIPTION EAST SEATTLE ADD PLat Block: 10 Plat Lot: 13-14-15.

AGENCY HAVING JURISDICTION: CITY OF MERCER ISLAND

PROJECT DESCRIPTION: RENOVATION AND ADDITIONS OF A SINGLE FAMILY RESIDENCE AND ATTACHED GARAGE

REFER TO SURVEY FOR ADDITIONAL NOTES AND INFORMATION FOR EXISTING CONDITIONS. VERIFY ALL UNDERGROUND UTILITIES AND SITE GRADES PRIOR TO CONSTRUCTION. COORDINATE PROPERTY CORNERS WITH SURVEYOR. CONTRACTOR SHALL VISIT THE SITE AND APPRAISE HIMSELF/ HERSELF OF THE EXISTING CONDITIONS AND SEQUENCE PRIOR TO ANY CLEARING OR DEMOLITION WORK.

VERIFY ALL TOP OF SLAB ELEVATIONS AT ALL BUILDING AND PROPERTY LINES. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL PADS AND BASE, ALONG WITH POWER, WATER AND / OR DRAINAGE INSTALLATIONS BEFORE PROCEEDING WITH THE WORK.

FINAL GRADING AROUND BUILDING SHOULD HAVE POSITIVE SLOPE AWAY FROM BUILDING FOR POSITIVE DRAINAGE DRAINAGE SHALL COMPLY WITH COMI STORMWATER CONTROL REQUIREMENTS

ALL DOWNSPOUTS SHALL BE LOCATED WHERE EXISTING. DAYLIGHTING SHALL NOT BE DIRECTED TO THE ROW AND SHALL NOT CAUSE DOWNSTREAM EROSION MECHANICAL EQUIPMENT LOCATED OUTDOORS SHALL BE INSTALLED ON 4' REINFORCED CONCRETE PAD OVER COMPACTED FILL TO 90% DENSITY

LOT SLOPE CALCULATION: HIGHEST ELEVATION POINT = 490'

ALLOWABLE LOT COVERAGE (PER MICC 19.02.020.F):40% 9900 SQ F

PROPOSED LOT COVERAGE (HOUSE + DECK + DRIVEWAY): 3271 SF

ALLOWABLE HARDSCAPE (PER MICC 19.02.020.F):9% 9900 SQ FT.

GROSS FLOOR AREA (PER MICC 19.02.020.D): 5,000 SQUARE FEET OR 40 PERCENT OF THE LOT AREA, WHICHEVER IS LESS

TOTAL GROSS SF PER 19.02.020.D = 3,558 SF OR 35%

2568 SF	990 SQ FT
804 SF	0 SF
1764 SF	0 SF
0 SF	310 SF
0 SF	582 SF
0 SF	98 SF
CONDITIONED	UNCONDITIONED

BUILDING HEIGHT:PER MCC 19.02.020.E

AVERAGE BUILDING ELEVATION = (WEIGHTED SUM OF THE MID-POINT ELEVATIONS) ÷ (TOTAL LENGTH OF WALL

WEIGHTED SUM OF THE MID-POINT ELEVATIONS: (484.7x47.2)+(486x18.9)+(489x21.1)+(489x38)+(489x8.8)+(490x15.3)+(490x33.8)+(490x14.7)+(498x33.3)+(487x15.9)=

(22877.84)+(9185.4)+(10317.9)+(18582)+(4303.2)+(7497)+(16562)+(7203)+(16583.4)+(7743.3)=120855.04 TOTAL LÉNGTH OF WALL SÉGMENTS: 47.2+18.9+21.1+38+8.8+15.3+33.8+14.7+33.3+15.9=247

AVERAGE BUILDING ELEVATION=120855.04/247=489.29'

***NOTE - NO CHANGE TO BUILDING HEIGHT PROPOSED**

PROJECT INFORMATION



Architecture Planning **Construction Management**

197 Parfitt Way SW, Suite 120 Bainbridge Island, WA 98110 206.780.9113 bcandj.com

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

NO. DESCRIPTION 1 PERMIT SET

2 PERMIT COMMENTS 04/11/23

DATE 01/02/23

SHEET NAME ARCHITECTURAL SITE PLAN

SHEET NUMBER

3 (3) ROOF PLAN EXISTING DEMO SCALE: 1/8" = 1'-0"

DEMO (E) ENTRY *WORK COMPLETED PRIOR TO PERMIT SUBMITTAL

DEMO PORTION OF (E) ROOF -DEMO (E) CHIMNEY *WORK COMPLETED PRIOR TO PERMIT SUBMITTAL



SHEET NUMBER

CONSTRUCTION PLAN LEGEND

⊙ SD/CMD	SMOKE DETECTOR/ CARBON MONOXIDE DETECTOR
SD	SMOKE DETECTOR
Т	THERMOSTSAT
H	EXTERIOR HOSE BIB
CFM	EXHAUST FAN (CFM)
SG	SAFETY GLAZING
E	ELECTRICAL PANEL
	TYP INTERIOR PARTITION: 5/8" GWB, 2x4, 5/8" GWB U.N.O BY STRUCTURAL
	1 HR PARTITION: 5/8" TYPE X GWB, 2x6 WITH R21 INSUL, 5/8" TYPE X GWB
0	DOWNSPOUT

CONSTRUCTION PLAN NOTES

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK.
- 2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED TO STUD, FACE OF CONCRETE, FACE OF RAFTER, ETC. CONTRACTOR SHALL FIELD VERIFY ALL DIMS PRIOR TO THE COMMENCEMENT OF ANY NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR SHALL NOT PROCEED IN UNCERTAINTY.
- 3. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL AND ELECTRICAL EQUIPMENT WITH THE RESPECTIVE SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL COORDINATION EXACT DIMENSIONS AND SIZING FOR ALL DOORS, AND WINDOWS AND OTHER ROUGH OPENINGS INCLUDING ROUGH FRAMING OPENING, DOOR AND UNIT WINDOW DIEMSIONS AND REQUIRED SHIM SPACE.
- 5. PROVIDE AND INSTALL SOUND ATTENUATION BATT INSULATION AT ALL BATHROOM PARTITIONS AND IN ALL WASTE LINE, FLOOR AND PARTITION CAVITIES.
- 6. CLOTHES DRYER VENT SHALL BE MIN 4" DIA SMOOTH WALL, SECURED IN PLACE (W/O SCREWS) W/MALE END OF DUCT AT OVERLAPPED DUCT JOINTS EXTENDING IN THE DIRECTION OF AIR FLOW. PROVIDE CLEANOUT, PROVIDE BACKDRAFT DAMPER TERM. (W/O SCREEN) MAX LEGNTH PER IRC.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WALL BLOCKING AND BRACING REQUIRED FOR WALL AND CEILING MOUNTED ITEMS. 8. ALL NEW CONSTRUCTION SHALL BE STABILIZED AGAINST LATERAL MOVEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL RESIDENTIAL
- CODE AND STATE OF WASHINGTON BUILDING CODE AND ALL APPLICABLE SEISMIC REQUIREMENTS. 9. STOVE AND FLUE ASSEMBLIES SHALL BE UL LISTED, MEET ALL IRC REQUIREMENTS AND
- BE INSTALLED PER ALL MAUF. REQUIREMENTS INCLUDING NON-COMBUSTABLE ADJACENT SURFACES
- 10. SMOKE ALARM: SINGLE OR MULTIPLE SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, IN EACH ROOM USED FOR SLEEPING PURPOSES, IN EACH STORY WITHIN A DWELLING UNIT, INCLUDING BASEMENTS AND CELLARS BUT NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION. WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE WILL ACTIVATE ALL OF THE ALARMS.
- 11. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN DWELLING UNITS WITH ATTACHED GARAGES OR FUEL BURNING APPLIANCES IN THE FOLLOWING LOCATIONS: OUTSIDE EACH SEPARATE DWELLING UNIT IN THE IMMEDIATE VICINITY OF THE BEDROOMS, AND ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER SOURCE FROM BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. ALARM WIRING SHALL BE DIRECTLY \sim CONMECTED, WHTHOUT A DISCONNECTING SWITCH OTHER THAN REQUIRED FOR \sim ÖVERCURRENT PROTECTION
- 12. SAFETY GLASS SHALL BE PROVIDED IN HAZARDOUS LOCATIONS PER IRC 2406.3 13. PER R302.11, FIRE BLOCKING 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.

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

- NO. DESCRIPTION
- 1 PERMIT SET 2 PERMIT COMMENTS 04/11/23

DATE 01/02/23

SHEET NAME FOUNDATION PLAN

DATE

01/02/23

CONSTRUCTION PLAN NOTES

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY
- AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK. 2. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED TO STUD, FACE OF CONCRETE, FACE OF RAFTER, ETC. CONTRACTOR SHALL FIELD VERIFY ALL DIMS PRIOR TO THE COMMENCEMENT OF ANY NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR SHALL NOT PROCEED IN UNCERTAINTY.

---(1)

-(2)

—————(**3**)

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- 3. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL AND ELECTRICAL EQUIPMENT WITH THE RESPECTIVE SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL COORDINATION EXACT DIMENSIONS AND SIZING FOR ALL DOORS, AND WINDOWS AND OTHER ROUGH OPENINGS INCLUDING ROUGH FRAMING OPENING, DOOR AND UNIT WINDOW DIEMSIONS AND REQUIRED SHIM SPACE.
- 5. PROVIDE AND INSTALL SOUND ATTENUATION BATT INSULATION AT ALL BATHROOM PARTITIONS AND IN ALL WASTE LINE, FLOOR AND PARTITION CAVITIES. 6. CLOTHES DRYER VENT SHALL BE MIN 4" DIA SMOOTH WALL, SECURED IN PLACE (W/O
- SCREWS) W/MALE END OF DUCT AT OVERLAPPED DUCT JOINTS EXTENDING IN THE DIRECTION OF AIR FLOW. PROVIDE CLEANOUT, PROVIDE BACKDRAFT DAMPER TERM. (W/O SCREEN) MAX LEGNTH PER IRC.
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CONSTRUCTION PLAN LEGEND

SIMOKE DETECTOR/ CARBON MONOXIDE DETECTOR SMOKE DETECTOR (SD)

- THERMOSTSAT Т Н EXTERIOR HOSE BIB
- EXHAUST FAN (CFM) CFM
 - SAFETY GLAZING
 - ELECTRICAL PANEL
- Е

0

SG

TYP INTERIOR PARTITION: 5/8" GWB, 2x4, 5/8" GWB U.N.O BY STRUCTURAL 1 HR PARTITION: 5/8" TYPE X GWB, 2x6 WITH R21 INSUL, 5/8" TYPE X GWB DOWNSPOUT

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

NO. DESCRIPTION

1 PERMIT SET 2 PERMIT COMMENTS 04/11/23

DATE 01/02/23

SHEET NAME SECOND FLOOR PLAN

			-		9' - 6"	
1) 2)		 				
3		 				
4		 				
A-201 1					5" / 12"	
5		 			5"/12"	
	(2) (4)	PLAN		A		

A-201

(A)

ROOF PLAN NOTES

-----5

—(**2**

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY.) THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK.
- 2. THE CONTRACTOR SHALL REVIEW ALL ROOFING AND ROOFING FLASHING DETAILS WITH ROOFING MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF ASSEMBLY AND ROOFING DETAILS IN ORDER TO ACHIEVE A WEATHERPROOF ROOFING $\stackrel{\frown}{}$ ASSEMBLY.
- 3. NO PLUMBING VENT STACKS OR EXHAUST VENTS WILL BE ALLOWED ON FRONT PORTION OF BUILDING ROOF FACING THE STREET. ALL ROOFTOP PENETRATIONS, PIPES, VENT STACKS SHALL BE FLASHED ACCORDING TO ACCEPTABLE INDUSTRY STANDARDS. RESPONSIBILITY FOR ALL ROOFTOP FLASHING DETAILS SHALL BE WITH GENERAL CONTRACTOR / ROOFING SUBCONTRACTOR.
- 4. ALL EAVES SHALL HAVE CONTINUOUS 2" EAVE VENTS INSTALLED IN SOFFITS. ATTIC VENTILATION: NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150'S OF THE AREA OF THE SPACE VENTILATED. A VAPOR BARRIER (P.V.A. PAINT) WILL BE INSTALLED ON THE WARM SIDE OF ATTIC INSULATION. A MINIMUM OF 1" AIR SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND ROOF SHEATHING AT EAVE VENT LOCATIONS.
- 5. INSTALL ALUMINUM GUTTERS AND DOWNSPOUTS AT LOCATIONS SHOWN ON ROOF PLAN AND BUILDING ELEVATIONS. PROVIDE BASKET STRAINER LEAFGUARDS IN GUTTERS AT TOP OF ALL DOWNSPOUTS. ALL DOWNSPOUTS LOCATIONS PROVIDE VERT PVC STORM WATER PIPING CONNECTED TO TIGHTLINED SYSTEM DRAINING TO DAYLIGHT DISCHARGE. CONTRACTOR TO COORDINATE THIS ITEM PRIOR TO FOUNDATION WORK. GUTTERS AND DOWNSPOUT TO MATCH APPROVED ROOF COLOR SAMPLES. PROVIDE AND INSTALL SCREENED GUTTER GUARDS AT ALL GUTTERS.
- 6. INSTALL CONTINUOUS EXPOSED METAL FLASHING OVER CONTINUOUS 36" WIDE (MIN.) "GRACE ICE & WATER SHIELD MEMBRANE" AT ALL ROOF VALLEYS BELOW ROOFING 7. ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES (E.G.,
- ATTICS AND CRAWL SPACES) SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. ACCESS SHALL BE PROVIDED TO ALL EQUIPMENT WHICH PREVENTS DAMAGING OR COMPRESSING THE INSULATION. A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER IS REQUIRED TO BE PROVIDED WHEN LOOSE FILL INSULATION IS INSTALLED, THE PURPOSE OF WHICH IS TO PREVENT THE LOOSE FILL INSULATION FROM SPILLING INTO THE LIVING SPACE WHEN THE ATTIC ACCESS IS OPENED AND TO PROVIDE A PERMANENT MEANS OF MAINTAINING THE INSTALLED R-VALUE OF THE LOOSE FILL INSULATION.

ROOF VENT CALCULATION

1376 SQ FT OF ATTIC/ 150 = 9.17 SQ FT OF VENT 9.17 SQ FT = 1320 SQ IN/ 2 = 660 SQ IN INTAKE, 660 SQ IN EXHAUST

ROOF RIDGE VENT = 45 LINEAR FT X 20" PER LINEAR FOOT* = 900 SQUARE INCHES

EAVE VENTS = 75 LINEAR FEET X 12 IN = 900 LINEAR INCHES X 1" VENT = 900 SQUARE INCHES TOTAL INTAKE = 900 SQ INCHES

TOTAL EXHAUST = 900 SQ INCHES

*PROVIDE CONT RIDGE VENT THAT MEETS 20" PER LINEAR FEET NFVA

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

NO. DESCRIPTION

1 PERMIT SET 2 PERMIT COMMENTS 04/11/23

01/02/23

DATE

SHEET NAME ROOF PLAN

SHEET NUMBER

ELEVATION NOTES

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK.
- 2. REFER TO ROOF PLAN FOR OVERHANG DIMENSIONS 3. ALL EXTERIOR SIDING AND TRIM: SMOOTH FACE EXPOSED 4. DOWNSPOUTS MAY NOT BE SHOWN FOR CLARITY
- BUILDING HEIGHT:PER MCC 19.02.020.E BUILDING HEIGHT LIMIT = 30' AVERAGE GRADE CALCULATION:
- AVERAGE BUILDING ELEVATION = (WEIGHTED SUM OF THE MID-POINT ELEVATIONS) ÷ (TOTAL LENGTH OF WALL
- ROOF PEAK 511' 8 1/2" SEGMENTS) WEIGHTED SUM OF THE MID-POINT ELEVATIONS: (484.7x47.2)+(486x18.9)+(489x21.1)+(489x38)+(489x8.8)+(490x15.3)+(490x33.8)+(490x14.7)+(498x33.3)+(487x15.9)= (22877.84)+(9185.4)+(10317.9)+(18582)+(4303.2)+(7497)+(16562)+(7203)+(16583.4)+(7743.3)=120855.04
 - 47.2+18.9+21.1+38+8.8+15.3+33.8+14.7+33.3+15.9=247
 - AVERAGE BUILDING ELEVATION=120855.04/247=489.29 TOP OF (E) ROOF (NO CHANGE) = 511.7
 - BUILDING HEIGHT = 22.41' *NOTE - NO CHANGE TO BUILDING HEIGHT PROPOSED

ROOF PEAK 511' - 8 1/2"

LOWER ROOF (EXISTING) 503' - 9"

SECOND FLOOR 498' - 5 1/2"

FIRST FLOOR 490' - 0"

AVERAGE GRADE 489' - 3 1/2"

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NO. DESCRIPTION 1 PERMIT SET 2 PERMIT COMMENTS 04/11/23

DATE 01/02/23

SHEET NAME **BUILDING ELEVATIONS**

ELEVATION NOTES

- 1. ALL DIMENSIONS SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS ADVERSELY AFFECTING THE DESIGN PRIOR TO PROCEEDING WITH THE WORK.
- 2. REFER TO ROOF PLAN FOR OVERHANG DIMENSIONS 3. ALL EXTERIOR SIDING AND TRIM: SMOOTH FACE EXPOSED
- 4. DOWNSPOUTS MAY NOT BE SHOWN FOR CLARITY

BUILDING HEIGHT:PER MCC 19.02.020.E BUILDING HEIGHT LIMIT = 30' AVERAGE GRADE CALCULATION:

AVERAGE BUILDING ELEVATION = (WEIGHTED SUM OF THE MID-POINT ELEVATIONS) ÷ (TOTAL LENGTH OF WALL

SEGMENTS) WEIGHTED SUM OF THE MID-POINT ELEVATIONS:

(484.7x47.2)+(486x18.9)+(489x21.1)+(489x38)+(489x8.8)+(490x15.3)+(490x33.8)+(490x14.7)+(498x33.3)+(487x15.9)= (22877.84)+(9185.4)+(10317.9)+(18582)+(4303.2)+(7497)+(16562)+(7203)+(16583.4)+(7743.3)=120855.04 TOTAL LÉNGTH OF WALL SEGMENTS:

<u>ROOF PEAK</u> 511' - 8 1/2"

LOWER ROOF (EXISTING) 503' - 9"

SECOND FLOOR 498' - 5 1/2"

FIRST FLOOR AVERAGE GRADE 489' - 3 1/2"

47.2+18.9+21.1+38+8.8+15.3+33.8+14.7+33.3+15.9=247 AVERAGE BUILDING ELEVATION=120855.04/247=489.29'

TOP OF (E) ROOF (NO CHANGE) = 511.7 BUILDING HEIGHT = 22.41'

*NOTE - NO CHANGE TO BUILDING HEIGHT PROPOSED

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REVISIONS

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DATE 01/02/23

SHEET NAME **BUILDING ELEVATIONS**

_____ 2 SECTION B SCALE: 1/4" A V

1

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

____ L<u>O</u>W<u>ER ROO</u>F <u>(EXISTING)</u> 503' - 9"

BOTTOM OF ROOF 497' - 8 1/2"

FIRST FLOOR 490' - 0" AVERAGE GRADE 489' - 3 1/2"

> R-2: ROOFING ON 2x FRAMING W VAULTED CEILING -COMP SHINGLE ROOF -COMP SHINGLE ROOF -30# ROOFING FELT -1/2" CDX PLYWOOD SHEATHING -2x WOOD RAFTERS @ 24" OC (REF. STRUCTURAL) -1" MIN AIRP SPACE -R-38 INSUL -VAPOR BARRIER -5/8" GWB

ROOF PEAK 511' - 8 1/2"

 W-2: TYPICAL WALL ASSEMBLY
-HARDI SIDING PER ELEVATION
-WEATHER RESISTANT BARRIER LOWER ROOF (EXISTING)
-1/2" CDX PLYWOOD SHEATHING 503' - 9"
-2x STUDS @ 16" OC (REF. STRUCTURAL)
-R-21 BATT INSULATION WITH VAPOR BARRIER ON WARM SIDE
5/8" GWB -5/8" GWB

<u>F-2: TYPICAL SECOND FLOOR ASSEMBLY</u>
-FLOOR FINISH PER PLANS
-1/2" CDX PLYWOOD SHEATHING
--WOOD JOISTS (PER STRUCUTURAL) W/ BATT INSULATION
-5/8" GWB

_ FIRST FLOOR 490' - 0"

AVERAGE GRADE 489' - 3 1/2"

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REVISIONS

NO. DESCRIPTION 1 PERMIT SET

DATE 01/02/23

SHEET NAME **BUILDING SECTIONS**

SHEET NUMBER

STAIR NOTES

3.

- STAIRWAY ILLUMINATION SHALL BE PROVIDED PER IRC303.6: ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. STAIRWAY ILLUMINATION SHALL RECEIVE PRIMARY POWER FROM THE BUILDING WIRING. 2.
 - STAIRWAYS: SHALL COMPLY WITH R311.7 R311.7 STAIRWAYS: R311.7.1 WIDTH: STAIRWAYS SHALL NOT BE LESS THAN 36" 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 Α. INCHES ON EITHER SIDE OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS AND LANDINGS, SHALL NOT BE LESS THAN 31 1/2 INCHES WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27" WHERE HANDRAILS ARE PROVIDED ON
 - BOTH SIDES. R311.7.2 HEADROOM: 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 В.
 - PLATFORM ON THAT PORTION OF THE STAIRWAY. R311.7.4.1 RISER HEIGHT: THE MAXIMUM RISER HEIGHT SHALL BE 7 3/4". THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE
 - C. SMALLEST BY MORE THAN 3/8".
 - R311.7.4.2 TREAD DEPTH: THE MINIMUM TREAD DEPTH SHALL BE 10". THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREADS D. LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".
 - R311.7.4.3 PROFILE: THE RADIUS OF CURVATURE AT THE NOSING SHALL BE NO GREATER THAN 9/16". A NOSING NOT LESS THAN 3/4", NOT MORE THAN 1 1/4" SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS. THE GREATEST NOSING PROJECTION SHALL E.
 - NOT EXCEED THE SMALLEST NOSING PROJECTION BY MORE THAN 3/8" BETWEEN STORIES INCLUDING THE NOSING AT THE LEVEL OF FLOORS AND LANDINGS. BEVELING OF NOSINGS SHALL NOT EXCEED 1/2". OPEN RISERS ARE PERMITTED, PROVIDED THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE PASSAGE OF A 4" DIAMETER SPHERE. EXCEPTIONS: A NOSING IS NOT REQUIRED WHEN THE TREAD DEPTH IS A MINIMUM OF 11" R311.7.5 LANDINGS FOR STAIRWAYS: THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE OF MORE THAN 12 FEET BETWEEN FLOOR LEVELS OR LANDINGS. THE WIDTH F. OF EACH LANDING SHALL NOT BE LESS THAN THE WIDTH OF THE STAIRWAY SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL.
 - RAILINGS SHALL BE COMPLY WITH R311.7.7: R311.7.7: HANDRAILS. HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH FOUR OR MORE RISERS AND SHALL BE CONTINUOUS FROM TOP TO BOTTOM OF A FLIGHT OF STAIRS. Α. R311.7.7.1: 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. SEE EXCEPTIONS FOR Β.
 - VOLUTE TURNOUTS AND STARTING EASING PER THIS CODE SECTION. C. R311.7.7.3: GRIP SIZE: ALL REQUIRED HANDRAILS SHALL BE OF ON OF THE FOLLOWING TYPES OR PROVIDE EQUIVALENT GRASPABILITY. HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4INCHES 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.

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

NO. DESCRIPTION 1 PERMIT SET

DATE 01/02/23

SHEET NAME ENLARGED STAIR PLANS AND SECTION

SHEET NUMBER

INTERIOR DOOR SCHEDULE

DOOR		DC	OR			C	OOR	UNDER	FIRE	
NO.	TYPE	WIDTH	HEIGHT	MFR	MODEL	MAT'L	FIN.	CUT	RATING	COMMENTS
FIRST FL	OOR									
106a	A	1' - 8"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR					
SECOND	FLOOR									
		2' - 4 1/8"	5' - 11 5/8"							
201	D	3' - 0"	6' - 8"	REAL BARN DOOR CO		WD	STN			
202	A	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
203	A	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
204	В	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
205	A	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
206	В	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
207	A	2' - 6"	6' - 8"	SIMPSON	SOLID CUSTOM DOOR	WD	STN			
	/ТС		ND V							

EXTERIOR NON GLAZED DOOR SCHEDULE

DOOR DOOR DOOR NO. TYPE WIDTH HEIGHT MFR MODEL MAT'L FIN. COMMENTS FIRST FLOOR

X101 8' - 0" 7' - 6" NW DOOR MODERN CLASSIC OVERHEAD DOOR AL/GL AND

DOOR AND WINDOW NOTES

ALL FENESTRATION SHALL BE U .30 OR LOWER ALL FENESTRATION SHALL BE MILGARD ULTRA C650

- PER R402.4.3 AIR LEAKAGE OF FENESTRATION. WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN .3 CFM PER SQUARE FOOT, AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT, WHEN TESTED IN ACCORDANCE TO NFRC 400 OR AAMA/WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LISTED AND LABELED BY THE MANUFACTURER THE CONTRACTOR SHALL SEAL AROUND ALL EXTERIOR WINDOWS, DOORS, VENTS AND OTHER SUCH PENETRATIONS WITH A CONTINUOUS BEAD OF CAULKING TO PROVIDE FOR A WEATHER-TIGHT STRUCTURE. IN ADDITION, ALL EXTERIOR OPENINGS (WINDOWS, DOORS, VENTS, DOORS, VEN CORRIDOR OPENINGS) SHALL BE FLASHED WITH A FLASHING MEMBRANE AS SHOWN ON THE WINDOW DETAIL SHEET. USE METAL HEAD FLASHING ABOVE ALL EXTERIOR DOORS AND WINDOWS. FURNISH AND INSTALL FLASHINGS IN ACCORDANCE WITH SMACNA STANDARDS.
- NATURAL LIGHT: PER IRC R303.1 WINDOW AREA FOR NATURAL LIGHT MUST BE 8 PERCENT OF FLOOR AREA SECURITY REQUIREMENTS: PER IRC R329.1 BUILDING ENTRANCE DOORS SHALL BE CAPABLE OF LOCKING. THEY SHALL BE EQUIPPED WITH A DEAD-LOCKING LATCH BOLT WITH AT LEAST 1/2 IN THROW THAT PENETRATES THE STRIKER NOT LESS THAN 1/4 IN. BUILDING ENTRANCE DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. VISITOR OBSERVATION PORT REQUIRED FOR EXTERIOR DOORS. ON BUILDING ENTRANCE DOORS, LOCKS MUST BE ABLE TO BE OPENED WITHOUT THE USE OF A KEY
- OR ANY SPECIAL KNOWLEDGE OR EFFORT. SAFETY GLAZING. ALL GLASS LOCATED IN AN AREA THAT THE IRC CONSIDERED HAZARDOUS PER R308 SHALL BE SAFETY GLAZING. THESE INCLUDE THE FOLLOWING LOCATIONS: -GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BI-FOLD DOORS
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAT 60" ABOVE THE FLOOR OR WALKING SURFACE Β. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS THE FOLLOWING CONDITIONS C. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET AND а.
 - THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR AND
 - THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR AND ONE OR MORE WALKING SURFACES ARE WITHIN 36" MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING
 - ALL GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE ALL GLASS SHOWER ENCLOSURES SHALL BE LAMINATED SAFETY GLASS OR FULLY TEMPERED
- SKYLIGHTS SHALL BE MADE OF LAMINATED GLASS, FULLY TEMPERED OR HEAT STRENGTHENED GLASS PER IRC R308.6.2
- SRC R312.2.1 FOR ANY WINDOW WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATEDLESS THAN 24 INCHES ABOVE THE FINISHED FLOOR AND GREATER THAN 72 INCHES ABOVE FINISHED GRADE, SHOW ON THE PLANS THAT THE OPENING COMPLIES WITH ONE OF THE FOLLOWING: HAS OPENINGS LESS THAN 4 INCHES.
- PROVIDE WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2090. В. PROVIDE WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH R312.2.2 C.

DOOR TYPE LEGEND

D.

Α.

EMERGENCY ESCAPE: ONE WINDOW OR DOOR IN THE BASEMENT AND IN EACH BEDROOM MUST MEET THESE REQUIREMENTS: 1)5.7 SQFT MIN NET CLEAR OPEN AREA. 2) 20" MIN CLEAR OPEN WIDTH AND 24" MIN CLEAR OPEN HEIGHT AND 44" MAX SILL HEIGHT

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PROJECT NAME

BICKEL RESIDNECE

PROJECT ADDRESS 2734 70TH AVE SE MERCIER ISLAND, WA 98040

PROJECT NUMBER 2019

PERMIT SET 4/11/2023

REVISIONS

О.	DESCRIPTION	
1	PERMIT SET	

2 PERMIT COMMENTS 04/11/23

DATE 01/02/23

SHEET NAME DOOR AND WINDOW SCHEUDLE

SHEET NUMBER

(The following apply unless shown otherwise on the plans)

		CRITERIA		15.	REINFORCING STEEL SHALL (CONFORM TO ASTM AGIS (INC	UDING SUPPLEMENT SI), GRA	DE 60, fy = 60,000 PSI. EXC	EPTION: ANY BAI
l.	ALL NEW MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHA EDITION).	ALL CONFORM TO THE DRAWINGS, SPEC	CIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2018		DRAWINGS AS 'GRADE 40', f Complying with Astm A6150 Are submitted.	'y = 40,000 P51. GRADE 60 (61) MAY BE WELDED ONLY IF	REINFORCING BARS INDICAT MATERIAL PROPERTY REPO	ED ON DRAWINGS TO BE WELDE ORTS INDICATING CONFORMANC	ED SHALL CONFO E WITH WELDING: F
2.	DESIGN LOADING CRITERIA				WELDED WIRE FABRIC SHALL	$_{\rm CONFORM}$ to astm a 185.			
	ROOF LIVE LOAD (SNOW, IRREDUCIBLE, NOT INCLUDING DRIFT) FLOOR LIVE LOAD (RESIDENTIAL) FLOOR LIVE LOAD (STORAGE, NON REDUCIBLE) STAIR AND CORRIDOR LIVE LOAD, NON REDUCIBLE	25 PSF 40 PSF 125 PSF 60 PSF		16.	REINFORCING STEEL SHALL E REINFORCEMENTS IN ACCORI INTERSECTIONS, LAP ADJAC	BE DETAILED (INCLUDING HO DANCE WITH 'THE REINFORCIN CENT MATS OF WELDED WIRE F	OKS AND BENDS) IN ACCORI G SPLICE AND DEVELOPMEN ABRIC A MINIMUM OF 8' AT S	DANCE WITH ACI SP-66 (04) AN NT LENGTH SCHEDULE." PROVID SIDES AND ENDS.	ND THE LATEST EI DE CORNER BARS
	DESIGN LOADING CRITERIA - LATERAL LOADS				NO BARS PARTIALLY EMBED	DDED IN HARDENED CONCRE	TE SHALL BE FIELD BENT UN	ILESS SPECIFICALLY SO DETAIL	ED OR APPROVE
	WIND VULT = 100 MPH (3-SECOND GUST), VASD ENCLOSED BUILDING.	D = 11 MPH (3-SECOND GUST) 3. EXPOSURE 'B', Kzt=1,0		١٦.	CONCRETE PROTECTION (CC	OVER) FOR REINFORCING STEE	E SHALL BE AS FOLLOWS:		
	DIRECTIONAL PROCE	EDURE PER ASCE 1-16 Ch21			FOOTINGS AND OTHER UNFOR	RMED SURFACES, EARTH FACE			3'
	EARTHQUAKE RIGK C	ATEGORY 2, le =1.0			FOR THE SURFACES EXPOSE	DIOEARTH (I.E. WALLS DELC	W GROUND / OR WEATHER	(*5 BARS OR SMALLER)	1 1/2"
	56 =1.42 SITE CL	0,51 = 0.58, LASS = D (ASSUMED),			COLUMN TIES OR SPIRALS AI SLABS AND WALLS (INTERIO	ND BEAM STIRRUPS R FACE)			1/2" 3/4"
	Fa= 12, f Sde = 0	Fv =1,8 0,93, 5d1 = .58,		18.	CONCRETE WALL REINFORCIN	NG PROVIDE THE FOLLOWING	UNLESS DETAILED OTHERWI	SE:	
	SDC = 1 BSERS = RI 11100D S				6' IIIAI I S	*4 @ 16 HORI7			
	C6 =.17,	, RHO = 13			8' WALLS	#5 @ 18 HORIZ.	#5 @ 18 VERTICAL	I CURTAIN	
	EQUIVALENT LATERAL	N DAGE GHEAR V=10.40K NL FORCE PROCEDURE		19.	CAST IN PLACE CONCRETE:	SEE ARCHITECTURAL DRAWIN	GS FOR EXACT LOCATIONS A	AND DIMENSIONS OF DOOR AND	WINDOW OPENING
	DESIGN LOADING CRITERIA - DEAD LOADS				GROOVES, NOTCHES, CHAMFE	ERS, FEATURE STRIPS, COLOR	, TEXTURE, AND OTHER FINISH	PENINGS THROUGH CONCRETE II I DETAILS AT ALL EXPOSED CO	ONCRETE SURFACE
	ROOF DEAD LOAD	15 PSF			PRECAST.				
	FLOOR DEAD LOAD (RESIDENTIAL UPPER FLOORS) WOOD FRAMED WALL DEAD LOAD (INTERIOR/EXTERIOR)	17 PSF 8/12 PSF		2Ø.	EMBEDDED ITEMS IN CAST-II ENGINEER OF RECORD, THE	N-PLACE CONCRETE: EMBEL SE ITEMS INCLUDE, BUT ARE N	DED ITEMS IN CAST-IN-PLA NOT LIMITED TO, REINFORCING	CE CONCRETE SHALL NOT BE " G STEEL, ANCHOR BOLTS, DEFO	UET-SET' UNLESS : RMED BAR ANCH
	CONCRETE WALL DEAD LOAD (8" WALLS)	100 PSF			MISC. STEEL SHAPES TO BE	CAST INTO CONCETE.			
	SEE PLANS FOR ADDITIONAL LOADING CRITERIA			21.	EPOXY GROUTED ITEMS SPE	CIFIED ON THE DRAWINGS SH	ALL BE GROUTED WITH HIT H	Y-200 ADHESIVE ANCHOR SYS	TEMS AS MANUFAC
3.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHIT SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY ANI	TECTURAL AND ALL OTHER DISCIPLINE ID SHALL NOTIFY ARCHITECT OF ANY D	5' DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR DISCREPANCIES PRIOR TO CONSTRUCTION.		SPECIFIC PRODUCT AND API DRAWINGS. HOLE SIZE SHAL	PLICATION. INSTALL IN STRIC L BE 1/8' LARGER THAN BAR	T ACCORDANCE WITH I.C.C R ROD OR BOLT SIZE. NOTE:	EPORTS FOR SPECIFIC EPOXY NO WELDING IS TO TAKE PLAC	UNLESS NOTED O E WITHIN 24'' OF H
	DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER I DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NEED INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO A RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFO	IN WRITING, DURING THE BIDDING PERI DED IN ORDER TO CONFORM TO CODE ALL CONCERNED. ANY SUCH DISCREP. ORMED IN A MANNER AS DIRECTED BY	OD, OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE 5, RULES AND REGULATIONS. UPON RECEIPT OF SUCH ANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE 7 THE ENGINEER. EVANUE AND WORKS, ALL DISCREPANCE EXISTING CONSTRUCTION	22.	EXPANSION BOLTS INTO CON BE KWIK BOLT 3 MASONRY A RECOMMENDATIONS, INCLUDI INSPECTION IS REQUIRED FOI	NCRETE SHALL BE KWIK BOLT ANCHORS AS MANUFACTURED ING MINIMUM EMBEDMENT REG R ALL EXPANSION BOLT AND	TZ WEDGE ANCHORS AND TH BY HILTI, INC OR APPROVED UIREMENTS, INSERTS INTO CA INSERT INSTALLATION, ANC	HREADED EXPANSION INSERTS > EQUAL INSTALLED IN STRICT , ONCRETE MASONRY UNITS SHAL HORS SHALL HAVE A CURRENT	INTO CONCRETE (ACCORDANCE WIT L BE INTO FULLY ICC REPORT.
4.	SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND N	HUST BE FIELD VERIFIED BY THE CON	INCING ANT WORK ALL DIMENSIONS OF EXISTING CONSTRUCTION				WOOD		
5.	CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUC ACCORDANCE WITH THE PLANS. ERECTION PLANS AND INSTALLATION THE SHORING SHALL NOT BE SUPPORTING ON THE EXISTING STRUCTUR	ICTURE AND STRUCTURAL COMPONENTS N OF SHORING SYSTEMS ARE THE RESF RE.	OUNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN PONSIBILITY OF THE CONTRACTOR AND THE SHORING SUPPLIER.	23.	FRAMING LUMBER SHALL BE EDITION, FURNISH TO THE FO	KILN DRIED, AND GRADED A DLLOWING MINIMUM STANDARD	ND MARKED IN CONFORMAN 6, UNLESS OTHERWISE NOTED	CE WITH W.C.L.B. STANDARD GRA ON THE PLANS:	ADING RULES FOR
	CHANGES IN FIELD CONDITIONS DURING CONSTRUCTION WILL REQUIR	RE RE-EVALUATION BY THE CONTRACT	OR AND THEIR SHORING INSTALLER.		JOISTS: (2 X MEMBERS)	DOUG FIR *2 MINIMUM BASIC DESIGN	STRESS, Fb = 900 PSI	
6.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTION	NS AND THE METHODS, TECHNIQUES, SE	QUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.		(3 × AND 4 × 1	MEMBERS)	DOUG FIR #1 MINIMUM BASIC DESIGN (STRESS, Fb = 1000 PSI	
٦.	CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO CONSTRUCTION. CHANGES SHOWN ONLY ON SHOP DRAWINGS WILL NOT	O THE ARCHITECT AND STRUCTURAL E T SATISFY THIS REQUIREMENT.	NGINEER FOR APPROVAL PRIOR TO FABRICATION OR		BEAMS AND STRINGERS: (INCLUDING 6)	X 10 AND LARGER MEMBERS;) Doug fir *1 Minimum Basic Design	STRESS, Fb = 1200 PSI	
<i>8.</i>	DRAWINGS INDICATE GENERAL AND ITPICAL DETAILS OF CONSTRUCT DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED	TION. WHERE CONDITIONS ARE NOT SP D, SUBJECT TO REVIEW AND APPROVAL	ECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO . BY THE ARCHITECT AND THE STRUCTURAL ENGINEER ERVISED BY THE SUPPLIER DURING MANUEACTURING DELIVERY		POSTS AND TIMBERS: (6)	X 6 AND LARGER)	DOUG FIR *2 MINIMUM BASIC DESIGN	STRESS, Fb = 900 PSI	
ч.	HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTION	IONS PREPARED BY THE SUPPLIER.			STUDS, PLATES & MISCELLAN	IEOUS LIGHT FRAMING:	DOUG FIR STANDARD GI MINIMUM BASIC DESIGN	RADE STRESS, Fb = 575 PSI	
10		ENCY OF INSPECTON	CODE REFERENCE		BOLTED FRAMING: STUDS, LI	EDGERS, AND PLATES	DOUG FIR #2 MINIMUM BASIC DESIGN	STRESS Eb = 900 PSI	
	REINFORCING STEEL AND PLACEMENT	PERIODIC	IBC 1910.4 4 TABLE 1705.3 ITEM 1		PRESSURE TREATED PRAIMIN	G: LEDGERS, AND FLATES	MINIMUM BASIC DESIGN	STRESS, Fb = 800 PSI	
	DRILLED AND EPOXIED BOLTS, RODS AND ANCHORS DRILLED AND EPOXIED REINFORCING	CONTINOUS	IBC 1705.1.1	24.	GLUED LAMINATED MEMBERS	6 SHALL BE FABRICATED IN (CONFORMANCE WITH ANSI / A	ITC A190.1-2002, AMERICAN NAT	IONAL STANDARD
	EXPANSION BOLTS AND THREADED EXPANSION INSERTS CONCRETE FORMWORK	PERIODIC PERIODIC	IBC TABLE 1105.3 IBC TABLE 1105.3		EACH MEMBER SHALL BEAR SHALL BE DOUGLAS FIR COM	? AN A.I.T.C. IDENTIFICATION MA MBINATION 24F ∨4, Fb = 2,400	ARK AND SHALL BE ACCOMF PSI, F∨ = 165 PSI. ALL CAN	PANIED BY AN A.I.T.C. CERTIFICA TILEVERED BEAMS SHALL BE [TE OF CONFORMA DOUGLAS FIR COM
	WOOD SHEATHED SHEAR WALLS AND DIAPHRAGMS	PERIODIC	IBC 1705.122		165 PSI. CAMBER ALL GLUL, U.ON.	AM BEAMS TO 2,000 FT RADI	US, UNLESS SHOWN OTHERWIS	E ON THE PLANS, USE "LEG" SE	RIES HANGERS AS
	(ANY SHEATHING WITH NAILS SPACED AT 4" ON CENTER OR LESS) WOOD SHEAR WALL HOLDOWN ANCHORS	PERIODIC	IBC 1705.122	25,	ENGINEERED LUMBER SHALL	. BE DESIGNED AND MANUFAC	CTURED TO THE STANDARDS	SET FORTH IN ASTM D5456, ICC	: ES REPORT ESR
	SHALL BE SUPERVISED IN ACCORDANCE WITH SECTION 109 SECTION	N 1704 AND SECTION 1708 OF THE INTE			CONSTRUCTION MATERIALS C	CENTRE (CCMC) REPORTS NO.	11161-R (PSL ONLY) AND 1262 THE NATIONAL RESEARCH B	27-R (LGL ONLY). EACH PIECE	SHALL BEAR A S
	BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT.	T. THE ARCHITECT, STRUCTURAL ENGINE	EER, AND SEATTLE DEPARTMENT OF PLANNING AND		FREE OF MECHANICAL CONNI	ECTIONS IN FULL-LENGTH MEM	BERS. ADHESIVES SHALL B	E OF THE WATERPROOF TYPE C	CONFORMING TO TH
	DEVELOPHENT SHALL DE FUNNIONED WITH COPIES OF ALL INSPECT				PARALLEL STRAND LUMBER	(PSL): Fb = 2900 PSI, E=20	0x 106 PSI, F∨ =290 PSI.		
		GEOTECHNICAL			LAMINATED VENEER LUMBER	R (LVL): Fb = 2290 PSI, E=1.9X R (LVL): Fb = 2800 PSI, E=2.03	106 PSI, FV =400 PSI. x 106 PSI, FV =285 PSI		
11.	FOUNDATION AND SLAB NOTES: SUB-GRADE PREPARATION INCLUDIN WITH RECOMMENDATIONS GIVEN BY THE INDIVIDUAL TESTING AGENCY	NG DRAINAGE, EXCAVATION, COMPACT (OR LOCAL BUILDING OFFICIAL AT THE	ION, AND FILLING: REQUIREMENTS, SHALL CONFORM STRICTLY E TIME OF EXCAVATION.		DESIGN SHOWN ON PLANS IS	BASED ON LUMBER MANUFAC	CTURED BY THE TRUS-JOIST (CORPORATION. ALTERNATE MA	NUFACTURERS MA
	FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLL	ED, COMPACTED STRUCTURAL FILL OF	R BOTH) AT LEAST 18' BELOW LOWEST ADJACENT FINISHED		APPROVAL BY THE ARCHITE HAVE ICC APPROVAL FOR E	ECT AND STRUCTURAL ENGINE EQUAL OR GREATER LOAD CA	ER, ALTERNATE JOIST HANGE APACITIES. ALL PARALLAM	ERS AND OTHER HARDWARE MA BEAM HANGERS AND OTHER HA	Y BE SUBSTITUTE ARDWARE SHALL I
	GRADE, FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH TH	ETAILS) ARE MINIMUM AND FOR GUIDAN HE TESTING LAB OR BUILDING INSPECTI	ICE ONLY. THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE OR. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE		PROVIDED, USE 'MGU' SERIES	6 HANGERS AS REQUIRED TO	FIT BEAM U.O.N.		
	DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINA			26.	PLYWOOD SHEATHING SHALL IDENTIFICATION INDEX AND N	. BE GRADE C D, EXTERIOR (NAILING REQUIREMENTS.	GLUE OR STRUCTURAL II, EXT	ERIOR GLUE IN CONFORMANCE	WITH DOC PS1. SE
	LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	55 PCF/35 PCF (ASSUMED)		27.	ALL WOOD MEMBERS EXPOS		CT CONTACT WITH SOIL SHALL	L BE PRESSURE-TREATED WITH	
	SEISMIC EARTH PRESSURE	8H (ASSUMED)			MEMBERS (INCLUDING PLATE	5) IN DIRECT CONTACT WITH	CONCRETE OR MASONRT SH	HALL BE PRESSURE-IREAIED U	ITH SODUIM BORA
	COEFFICIENT OF FRICTION	0.35 (ASSUMED)			ALL METAL CONNECTORS IN HANGERS, AND ANY OTHER 1	CONTACT WITH 'ACQ' PRESSU MISCELLANEOUS LT. GAGE ME	IRE-IREATED LUMBER SHALL TAL CONNECTORS. WHERE A	L BE ITPE 304 OR 316 STAINLE CQ LUMBER 15 USED IN INTERIC	R CONIDITIONS, G
	1	REMODELING/ RENOVATION			OUNCES PER SQUARE FOOT) FOR INTERIOR USE, METAL C	METAL CONNECTORS MAY BE CONNECTORS 1/2' THICK PLUS	E USED IN LIEU OF STAINLESS ARE TO BE GALVANIZED FOF	3 STEEL. METAL CONNECTORS R EXTERIOR USE, UNLESS SPEC	/2" THICK OR GRE FIED OTHERWISE
12.	DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WO	S BEFORE COMMENCING ANY DEMOLIT DRK SEQUENCES, EXISTING REINFORCIN	ION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING IG SHALL BE SAVED WHERE AND AS NOTED ON THE PLANS.	28.	TIMBER CONNECTORS CALLE	ED OUT BY LETTERS AND NUM	BERS SHALL BE 'STRONG-TI	E' BY SIMPSON COMPANY, AS S	SPECIFIED IN THEI
	SAW CUTTING, IF AND WHERE USED, SHALL NOT CUT EXISTING REINFORC	CING THAT IS TO BE SAVED. DEMOLIT	ION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR		DEVICES BY OTHER MANUFA	CTURERS MAY BE SUBSTITUTE	D, PROVIDED THEY HAVE IC	CBO APPROVAL FOR EQUAL OF	R GREATER LOAD
						CT TWO MEMBERS, PLACE ON	E-HALF OF THE NAILS OR BO	DLTG IN EACH MEMBER. ALL BO	DLTS IN WOOD MEN
	A. ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND DE	AND SHALL DE ACCONFLISHED DI SA	W Cutting wherever POSSIBLE.		ALL SHIMS SHALL BE SEASC	NDER THE HEADS AND NUTS (NED AND DRIED AND THE SA	ME GRADE (MINIMUM) AS ME	HEARING ON WOOD. UNLE MBERS CONNECTED.	55 NOTED OTHER
	D. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND L	LUCATION OF MEMBERS PRIOR TO CUT	hing ant optimis.		ALL JOISTS SHALL BE CONN	ECTED TO FLUSH BEAMS WITH	'U' SERIES JOIST HANGERS.	ALL DOUBLE OR TRIPPLE JOIS	OT BEAMS SHALL
	C. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE	E DRILLING, IF POSSIBLE.			WITH 'HU' SERIES JOIST HANG	ŧER9.			
	D. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, TO MATCH HORIZONTAL OR VERTICAL REINFORCING. UNLESS O	E, THREADED BARS INTO THREADED EX DTHERWISE NOTED ON PLANS.	XPANSION INSERTS IN EXISTING CONCRETE SHALL BE PROVIDED	29.	HOLDOWNS CALLED OUT BY OTHER MANUFACTURERS MAY	LETTERS "HDU", ARE MANUFAG Y BE SUBSTITUTED, PROVIDED	CTURED BY THE SIMPSON CO THEY HAVE ICC APPROVAL	DMPANY, AS SPECIFIED IN THEIR L FOR EQUAL OR GREATER LOA	CATALOG NO.C-3 AD CAPACITIES.
13.	CONTRACTOR SHALL CHECK FOR DRYROT AT ALL EXTERIOR WALLS,	, EXISTING TOILET ROOM FLOORS AND	WALLS, AREAS SHOWING WATER STAINS, AND ALL WOOD		BE BOLTED TO A MINIMUM O SPECIFIED BY MANUFACTURE	F (2) FULL HEIGHT STUDS. SEE ER. ALL HOLDOWNS SHALL BI	E SCHEDULE ON PLANS FOR E INSTALLED IN ACCORDANC	FURTHER STUD REQUIREMENTS. CE WITH THE MANUFACTURER'S R	PROVIDE NUMBE
	MEMBERS IN BASEMENT AND CRAWL SPACES. ALL ROT SHALL BE RE STRUCTURAL ENGINEER OR ARCHITECT.	EMOVED AND DAMAGED MEMBERS SH	ALL BE REPLACED OR REPAIRED AS DIRECTED BY THE		HEADS AND NUTS OF ALL BO	DLTS AND LAG SCREWS BEAR	RING ON WOOD.		
				3Ø.	WOOD FRAMING NOTES THE	E FOLLOWING APPLY UNLESS	OTHERWISE SHOWN ON THE PI	LANS:	
		CONCRETE			A. ALL WOOD FRAMING D	DETAILS NOT SHOWN OTHERWISE NOTED SHALL COME	BE SHALL BE CONSTRUCTED	TO THE MINIMUM STANDARDS O	F THE INTERNATIO
14.	CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACE	CED IN ACCORDANCE WITH IBC SECTION	N 1905 AND ACI 301. CONCRETE SHALL ATTAIN A 28 DAY			TE THE SIZE AND LOCATION (THE ALL OPENINGS WITH MECH	ANICAL AND ARCHITECTURAL D	PRAWINGS. PROVI
	OF 5" OR LESS.	HIN 9 112 JACKO OF CEMENT FER CUBIC	IARU AND SHALL DE FROFORTIONED TO FRODUCE A SLUMP		NUID OF ALL BOLIS A	And lag Jukewy Beaking O			
	THE MINIMUM AMOUNTS OF CEMENT AND MAXIMUM AMOUNTS OF WATER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS IN ACCORDANCE WITH ACI 318 SECTION 5.3. REVIEW OF MIX SUBMITTAL GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIE	MAY BE CHANGED IF A CONCRETE PE TO PLACING ANY CONCRETE. THE CO S WELL AS THE WATER CEMENT RATIO, ALS BY THE ENGINEER OF RECORD IND ER MAINTAINS FULL RESPONSIBILITY FO	ERFORMANCE MIX 16 SUBMITTED TO THE STRUCTURAL ENGINEER NCRETE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA ICATES ONLY THAT INFORMATION PRESENTED CONFORMS IR SPECIFIED PERFORMANCE.		B. WALL FRAMING: ALL : WALLS. TWO STUDS MI OVER ALL OPENINGS CONTINUOUS SOLID BI	STUD WALLS SHOWN AND NOT INIMUM SHALL BE PROVIDED NOT OTHERWISE NOTED, SOL LOCKING AT MID HEIGHT OF A	OTHERWISE NOTED SHALL B AT THE END OF ALL WALLS , ID BLOCKING FOR WOOD CC LL STUD WALLS OVER 8' IN H	9E 2 x 4 STUDS @ 16' O.C. AT INTI AND AT EACH SIDE OF ALL OPI DLUMNS SHALL BE PROVIDED TH HEIGHT.	ERIOR WALLS ANE ENINGS, TWO 2 × 8 IROUGH FLOORS

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR ENTRAINED WITH AN AIR ENTRAINING AGENT CONFORMING TO ASTM C260-06, C494M-05a, C618-05, C989-06, AND C1017M-07. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH ACI 318 TABLE 4.4.1.

ARS SPECIFICALLY NOTED ON THE ORM TO ASTM A706. REINFORCING PROCEDURES SPECIFIED IN A.W.S. DI.4

EDITION OF ACI 318. LAP ALL 3 AT ALL WALL AND FOOTING

VED BY THE STRUCTURAL ENGINEER

NGS IN ALL CONCRETE WALLS. SEE CHITECTURAL DRAWINGS FOR ALL CES, BOTH CAST IN PLACE AND

5 SPECIFICALLY APPROVED BY HORS, EMBED PLATES, OR OTHER

CTURED BY HILTI, INC. OR SET-3G HAT HAS I.C.C TEST DATA FOR THEIR DTHERWISE ON THE STRUCTURAL HARDENED EPOXY.

OR CONCRETE MASONRY UNIT SHALL ITH THE MANUFACTURER'S PUBLISHED Y GROUTED CELLS. SPECIAL

R WEST COAST LUMBER NO. 16, LATEST

its: (2 × MEMBERS)	DOUG FIR #2 MINIMUM BASIC DESIGN STRESS, Fb = 300 PSI
$(3 \times AND 4 \times MEMBERS)$	DOUG FIR #1 MINIMUM BASIC DESIGN STRESS, Fb = 1000 PSI
(INCLUDING 6 \times 10 AND LARGER MEMBERS)	DOUG FIR #1 MINIMUM BASIC DESIGN STRESS, Fb = 1200 PSI
TS AND TIMBERS: $(6 \times 6 \text{ AND LARGER})$	DOUG FIR *2 MINIMUM BASIC DESIGN STRESS, Fb = 300 PSI
06, PLATES & MISCELLANEOUS LIGHT FRAMING:	DOUG FIR STANDARD GRADE MINIMUM BASIC DESIGN STRESS, Fb = 575 PSI
.TED FRAMING: STUDS, LEDGERS, AND PLATES	DOUG FIR #2 MINIMUM BASIC DESIGN STRESS, Fb = 900 PSI
SSURE TREATED FRAMING: LEDGERS, AND PLATES	HEM FIR #2

RDS INSTITUTE AND ASTM D3131-05. 1ANCE, ALL SIMPLE SPAN BEAMS MBINATION 24F V8, Fb = 2400 PSI, Fv = AS REQUIRED TO FIT GLU-LAM BEAMS

R-1387, AND THE CANADIAN STAMP OR STAMPS NOTING THE NAME GENCY. ALL MEMBERS ARE TO BE THE REQUIREMENTS OF ASTM D-2559.

IAY BE USED SUBJECT TO REVIEW AND ED FOR ITEMS SHOWN PROVIDED THEY BE COMPATIBLE IN SIZE WITH BEAM

SEE PLANS FOR THICKNESS, PANEL

PER QUATERNARY (ACQ), ALL WOOD RATE (SBX)

INCLUDES WASHERS, SCREWS, NAILS, G185 ("HOT-DIP" GALVANIZED TO 1.85 REATER NEED NOT BE GALVANIZED E BY THE ARCHITECT.

EIR CATALOG NO.C-2021. EQUIVALENT D CAPACITIES. PROVIDE NUMBER AND ER'S RECOMMENDATIONS. WHERE EMBERS SHALL CONFORM TO ASTM RWISE, ALL NAILS SHALL BE COMMON.

BE CONNECTED TO FLUSH BEAMS

-2021. EQUIVALENT DEVICES BY EACH SIMPSON HOLD-DOWN SHALL ER AND SIZE OF FASTENERS AS NS. PROVIDE WASHERS UNDER THE

- IONAL BUILDING CODE. MINIMUM TED OTHERWISE, ALL NAILS SHALL BE VIDE WASHERS UNDER THE HEADS AND
- ND 2 x 6 @ 16" O.C. AT EXTERIOR HEADERS SHALL BE PROVIDED 3 TO SUPPORTS BELOW. PROVIDE

ALL STUD WALLS ATTACHED TO CONCRETE FOUNDATION WALLS SHALL HAVE THEIR LOWER WOOD PLATES BOLTED WITH 5/8" DIAMETER ANCHOR BOLTS @ 6'-0' O.C. WITH 3" x 3" x 1/4" SQUARE WASHERS OR 3" DIAMETER ROUND WASHERS UNLESS OTHERWISE NOTED. LAYOUT OF WALL PLATES, STUDS, AND ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 2308.6 OF THE 2018 IBC. ALL SILL PLATE PIECES SHALL HAVE A MINIMUM OF TWO ANCHOR BOLTS EMBEDED INTO CONCRETE, WITH THE FIRST ANCHOR BOLT LOCATED NOT MORE THAN 12" FROM THE END OF THE PLATE, AND NO CLOSER THAN 4" TO THE END.ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" O.C. STAGGERED. UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES AND APA RATED WOOD SHEATHING ON EXTERIOR SURFACES NAILED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH NAILS AT 1' O.C. USE 5d COOLER NAILS FOR 1/2' GWB AND 6d COOLER NAILS FOR 5/8' GWB. USE 8d COMMON, GALVANIZED NAILS FOR EXTERIOR SHEATHING.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND MORE THAN ONE-HALF OF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE BRIDGING @ 8' O.C. AND SOLID BLOCKING AT ALL BEARING POINTS. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH 16d @ 12" O.C. STAGGERED.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED WITH 8d NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O.C. (10" O.C. AT FLOORS) TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES OR PROVIDE SOLID BLOCKING. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE AND GROOVE JOINTS AT UNBLOCKED EDGES OR SHALL BE SUPPORTED WITH SOLID BLOCKING. TOENAIL BLOCKING TO PLATE WITH 16d @ 12" O.C. OR (2) 16d EACH END AT SUPPORTS UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS, INSTALL FLAT 2X BLOCKING AT ALL UNFRAMED PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

D. NAILING: MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS: NAIL SIZE ON DRAWINGS OR DETAILS SHEATHING NAILS 8d

	100	
FRAMING NAILS	8d	
	lØd	
	16d	

DIAMETER AND LENGTH Ø.131" x 2 ¼" Ø.148'' x 2 ½''

> Ø.131'' x 2 ½'' Ø.148'' x 3'' Ø.161'' x 3 ½''

23914 56th Avenue W. ~ Suite 200 Mountlake Terrace, WA 98043-5263 Ph: (206) 623-0769, (425) 640-7333 www.ilgross.com

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GENERAL STRUCTURAL NOTES

DESIGNED	ANB
DRAWN	KMH
CHECKED	MTS
DATE	12/1/2@22
JOB NUMBER	

SHEET NO.

S1.0

REVIEW

INDICATES THE NUMBER OF END STUDS OR BEARING STUDS REQUIRED AT END OF WALL. PROVIDE MIN (2) BEARING STUDS BELOW ALL BEAMS AND HEADERS, AND TWO FULL HEIGHT STUDS AT END OF ALL SHEAR WALLS

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MAIN FLOOR FRAMING PLAN

DESIGNED	ANB
DRAWN	KMH
CHECKED	MTS
DATE	12/1/2022
JOB NUMBER	

SHEET NO.

S2.1

REVIEW

DESIGNED	ANB
DRAWN	KMH
CHECKED	MTS
DATE	12/1/2022
JOB NUMBER	

SHEET NO.

S2.2

REVIEW

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ROOF FRAMING PLAN

DESIGNED	ANB
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CHECKED	MTS
DATE	12/1/2022
JOB NUMBER	

SHEET NO.

REVIEW

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NEW BLOCKED ROOF DIAPHRAGM IS TO BE 1/2" CDX PLYWOOD w/ MIN. PANEL INDEX OF 24/0, WITH 0.131" x 2.5" NAILS AT :

6"oc AT ALL DIAPHRAGM BOUNDARIES AND SHEAR WALLS 6"oc AT ALL SUPPORTED PANEL EDGES (BLOCKED)

2. $\Box \equiv \Box$ INDICATES WALL BELOW. SEE 52.2 & 10/54.0 FOR SHEAR WALL LOCATIONS

3. INDICATES BEAM OR HEADER PER PLAN. PROVIDE MIN.

PROVIDE MIN (2) END STUDS TO SUPPORT NEW BEAMS AND HEADERS 4. INDICATES FRAMING DIRECTION AND EXTENTS. PROVIDE 2x10 RAFTERS @ 24" oc U.O.N.

NEL EDGE JOINTS ON 2X	or 3x fraining shall de staggered so that ju				
TIRE LENGTH OF THE WA INDOWS, OR DOORWAYS OSTS. EDGE NAILING MA ITION. IELD NAILING: 12'' O.C.	LS INDICATED ON THE PLANS. ENDS OF FULL HEIGH OR AS DESIGNATED ON PLANS. SEE PLANS FOR HO Y ALSO BE REQUIRED TO EACH STUD USED IN BUIL	IT WALLS ARE OLDOWN REQUIREMENTS. T-UP HOLDOWN POSTS.		Ш	
J.O.N. INGTALL LTP5 CLIF G NAILS DIRECTLY TO FI	w/ LONG LEG HORIZONTAL. 24MING. USE Ø.131 x 2½" NAILS WHERE INSTALLED OV	ER SHEATHING.		ž	
PROVIDE DOUBLE JOIST, SHERS 1/4''X3''X3''. EMBE ROSION IN THE FASTENE IGLES, ETC.) FOR ALL CO	SIDE	L C L			
E OF 15/32'' SHEATHING P EATHING (G), CONTACT T ER MAY BE USED IN PLA HE SAME SPACING AND (PANSION BOLT ALTERN,	ROVIDED THAT ALL STUDS ARE SPACED AT 16" O.C LE ENGINEER OF RECORD FOR ALTERNATE NAILING CE OF A SINGLE 3X STUD. DOUBLE 2X STUDS MAY DIAMETER AS THE PLATE NAILING. TIVES TO CAST-IN-PLACE ANCHOR BOLTS. (SPECIA	; REQUIREMENTS. BE CONNECTED TOGETHER AL INSPECTION MAY BE		В Ш Ц Ц	
I INTO FRAMING MEMBER) F Ι / ₂ "				
SHEAR U	ALL SCHEDULE		10	N X	I (
				BIC	
	#				
SHIM	A6				
REQ SHE	D FOR GLU-LAM OR SAWN HTING BEAM PER PLAN OR NG DOUBLE JOIST HEADER				
	PER SCHEDULE BELOW		_	NO DATE DESC	RIPTIC
POS	- PLAN HEADER SCHEDULE U.O.N.		STUD		
	NON-BEARING WALLS : (2/2×6		GI : NAIL DIN DANCE W/	<u> </u>	
DER PLACEMENT DT OR TS COLUMN	HEADER IS CALLED OUT: Lc < 3'-6'' (2)2x6	GENERA	L NOTES.		
	Lc <5'-0'' (2)2x8 Lc <7'-0'' (2)2x10				
	TYPICA	- HEADER U.O.N.	15	TITLE TYPICAL	
	TYPICAL HANGER SCHEDULE			WOOD	
	BEAM SIZEHANGER RE2x SAUN RAFTERSLU (OR LUS)	IQUIRED CAP. (Kips)) SERIES 1.06		DETAILS	
	$\begin{array}{c} (2) \ 2 \times 10 \ \text{OR LESS} & \ \text{U210-2} \ (\text{OR} \\ (2) \ 2 \times 12 & \ \text{HU212-2} \ (\text{NA} \\ (2) \ 12 & \ \text{HU212-2} \ (\text{NA} \\ (2) \ 12 & \ \text{HU222-2} \ (\text{NA} \ 12 & \ \text{HU222-2} \ (\text{NA} \ 12 & \ \text{HU222-2} \ (12 & \ \ HU222$	SIM) 1.86 IL ALL HOLES) 2.95			
	$3^{1}2^{-1} \times 11^{1}8^{-1} \text{ LVL OR PSL}$ HUCQ412-SL $5^{1}4 \times 11^{1}8^{-1} \text{ LVL OR PSL}$ HGUS5.50/12	2 <u>9.15</u>		DRAWN KM	H
<u> </u>	3_{8}^{\prime} x 12 (OR 10 ¹ / ₂) GLB GLT3 3_{8}^{\prime} x 12'' (OR 10 ¹ / ₂ '') GLB GLT3	8.6 124		CHECKED MTC	5 12 <i>0</i> 22
4	2x8 JOISTS U28 OR HU2 2x8 JOISTS U28 OR HU2	8TF 124		JOB NUMBER	
				SHEET NO.	
	HANGERS SPECIFIED IN SCHEDULE O MANUFACTURED BY SIMPSON STRONG NOTED. CAPACITIES ARE BASED ON CATALOGUE AND ICC REPORTS FOR	R ON PLANS ARE TIE, INC. UNLESS OTHERWISE I THE MOST RECENT THE MODELS LISTED.		S4	.C
	ALTERNATE HANGERS MAY BE SUBST OR OWNER'S OPTION, PROVIDED THE ENGINEER OF RECORD AND HAVE A STATING THEIR CAPACITY MEETS OR CAPACITY LISTED ABOVE.	ITUTED AT THE CONTRACTOR Y ARE APPROVED BY THE CURRENT ICC REPORT EXCEEDS THE DESIGN		REVIEW	
19	DESIGN CAPACITIES LISTED ARE BA LUMBER AS STATED IN THE GENERAL GENERAL FLOOR LOADING.	SED ON Douglas Fir FRAMING . STRUCTURAL NOTES AND	20		

2 X BOTTOM PLATE ATTACHMENT SILL PLATE ATTACHMENT (9) (12) STUD & BLOCKING SIZE | RIM JOIST OR BLOCK PLF AT ADJOINING EDGES CONNECTION TO TOP CAPACITY ANCHOR BOLT TO NAILING TO WOOD (ASD) PLATE (7)(8) (3)(6)(15) CONCRETE BELOW (11) (16) BELOW(10) 2X CLIP @ 24" oc 260 Ø.148 x 3¹4" @ 6"oc 5/8" ¢ @ 48" oc 5/8" ¢ @ 48" oc 38Ø 3X CLIP @ 16" oc Ø.148 x 3¹/₄" @ 4"oc 489 3X 5/8" ø @ 40" oc CLIP @ 12" oc Ø 148 x 3¹4" @ 4"oc 5/8" ¢ @ 32" oc 3X 639 CLIP @ 10" oc 0.148 x 3¹4" @ 3"oc CLIP @ 8'' *o*c 3X 760 Ø.148 X 3¹4" @ 2"oc 5/8" ¢ @ 24" oc (2) ROWS 5/8" ¢ @ 20" oc 3X CLIP @ 6" OC 978 Ø.148 X 3¹4" @ 3"oc (2) ROWS A35 CLIP 1278 3X 5/8" ¢ @ 16" oc Ø.148 x 3¹⁄4" @ 3"oc a 6"oc

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