(The following apply unless shown otherwise on the plans)

BUILDING SECTION

SECTION DETAIL

DOOR NUMBER

WINDOW NUMBER

SMOKE DETECTOR

EXHAUST FAN

HEATER VENT

(NO CHANGE PROPOSED)

(NO CHANGE PROPOSED)

ZONING:

LOT AREA:

10,481 SF

LOT COVERAGE: 2,210 SF EXISTING (21.0%)

IMPERV. SURF: 3,074 SF EXISTING (29.3%)

HEIGHT CALCS: +100.00' ASSUMED DATUM

'A' = +|00'-6"

'B' = +100'-10"

'6' = +99'-3"

'H' = +99'-3"

AVG GRADE = +100-1"

MAX BLDG HEIGHT = +125'-1"

ACTUAL T.O. RIDGE = +114'-7"

(NO CHANGE IN BLDG HEIGHT PROPOSED)

AI.51 O5/12/10 GENERAL RESIDENTIAL NOTES

LOT II, BLOCK 2, D-00, ROBERT E THOMAS ADD'N

NO. 16, TWP 27N, R 3E, SECT 25, NE QTR, WM.

A2.00 05/12/10 ROOF FRAMING / DETAILS

A3.00 05/12/10 ELEVATIONS

LEGAL DESCRIPTION

LEGAL DESCRIPTION

PROJECT INFORMATION

EDMONDS, WA 98020

RAY RANSTROM 21726 - 97TH AVE W EDMONDS, WA 98020

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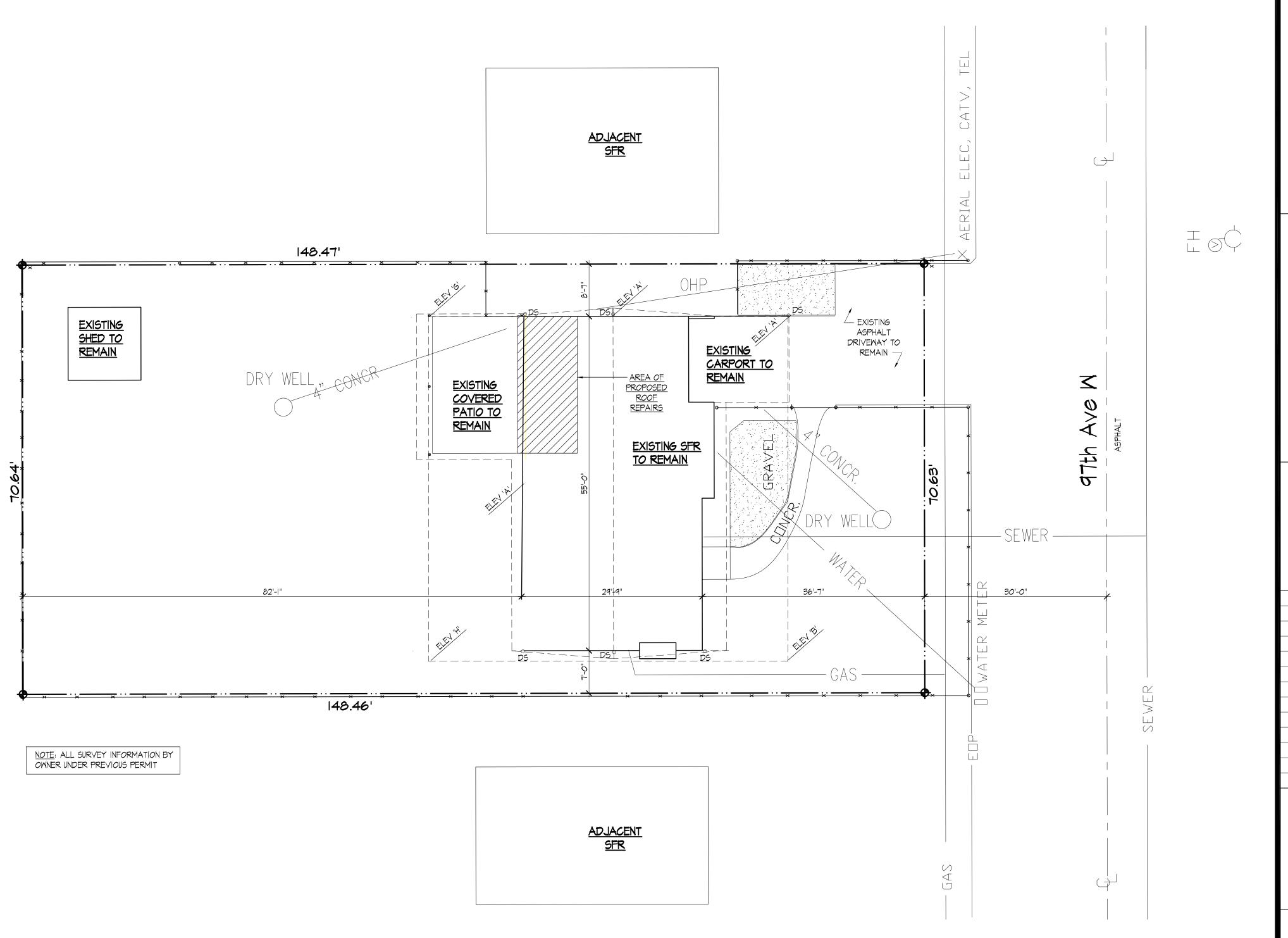
REPAIR / REPLACEMENT OF EXISTING ROOF & EAVES PER PLANS. NO CHANGES IN BUILDING HEIGHT, FOOTPRINT, OR GROUND DISTURBANCE PROPOSED

VICIINITY MAP

005597-0020-11-00

SHEET INDEX

SCOPE OF WORK



SITE PLAN SCALE: |" = 10'-0"

<u>CRITERIA</u>

I. <u>ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION</u> SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS AND THE INTERNATIONAL BUILDING CODE (2006 EDITION).

3. <u>CONTRACTOR</u> SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO

COMMENCING ANY WORK AND DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO COMMENCING EXCAVATION, AND NOTIFY ARCHITECT OF DISCREPANCIES AND CONFLICTS.

5. <u>CONTRACTOR</u> SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

6. <u>CONTRACTOR</u> SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM HIS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND / OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND / OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

7. <u>CONTRACTOR-INITIATED</u> CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

8. <u>DRAWINGS</u> INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATE BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

9. <u>ALL STRUCTURAL SYSTEMS</u> WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

CODE: 2006 International Building Code (IBC)

25 psf (Snow) (Not controlling)

STRUCTURAL LUMBER & TIMBER:

All lumber shall be graded in accordance with current WWPA standard grading rules for Western lumber. Use the following species and minimum grades unless noted otherwise on the plans:

Studs and Columns:	HF Standar
Wall Plates & Screeds	HF Utility
Joists & Rafters	HF #2
Header & Flush Beams	HF #2
4X Beams	HF #2
6X Beams	HF #I

All plywood shall be APA C-D interior grade with exterior glue and a minimum panel ID index of 42/20 for floors, 32/16 for the roof, and 16/0 for the walls.

DECK SHEATHING:

All plywood shall be APA C-D interior grade with exterior glue and a minimum panel ID Index of 32/16. Use 3/4" CDX T&G plywood, unblocked, nailed to joists with 12d nails at six (6) inches on center at all supported panel edges (edge nailing), and at twelve (12) inches on center along intermediate framing members (field nailing).

MISCELLANEOUS:

Contractor shall verify all dimensions and conditions in the field. Verify the size and location of all openings in the floor, roof and walls with architectural, mechanical and electrical drawings. Provide temporary bracing as required until all permanent connections and stiffeners have been installed.

BEARING WALL FRAMING:

All exterior wood framed bearing walls shall be a minimum of 2X6 at 16" on center and interior bearing walls are typically a minimum of 2X4 at 16" on center. All door and window headers not called out on the plans shall be (2)2XIO with one cripple and one stud each end for openings 4'-O" wide or less, and two cripples and one stud each end for openings more than 4'-0" wide. All columns not called out on the plans shall be two studs. Spike laminated columns together with 16d nails at 16" on center. Provide one layer of asphalt impregnated building paper (40#) at all contact surfaces between any wood and concrete or masonry. No soil to be in contact with any wood surfaces.

grouparchitect

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Residence: Roof and Eave Repair

project address: Ray Ranstrom 21726 - 97th Ave W Edmonds, WA 98020

BUILDING PERMIT SUBMITTAL

JUNE 1, 2010

05-11-10 CLIENT REVIEW 06-01-10 PERMIT SUBMITTAL

Site Plan / Structural Notes

checked:

2006 INTERNATIONAL RESIDENTIAL CODE

ALL WORK SHALL COMPLY WITH THE INTERNATIONAL RESIDENTIAL CODE (I.B.C.) 2006 EDITION, AND WASHINGTON STATE AMENDMENTS TO THE CODE. IN ADDITION THE CURRENT VERSIONS OF THE CODES COVERING PLUMBING MECHANICAL, ELECTRICAL AND FIRE SHALL BE FOLLOWED. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING CODES. WORK SHALL BE DONE TO CURRENT AREA WIDE STANDARDS AND PRACTICES BY EXPERIENCED CRAFTSMEN.

THESE DOCUMENTS ARE OF LIMITED SCOPE AND DO NOT COVER ALL CONSTRUCTION DETAILS, CONDITIONS, FINISHES OR PRACTICES. THE CONTRACTOR IS ASSUMED TO USE GOOD JUDGMENT IN THE EXECUTION OF THESE DOCUMENTS. GROUPARCHITECT (THE 'ARCHITECT') SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS FROM THE MISINTERPRETATIONS OF THESE DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND NEW DIMENSIONS AND JOB CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES REQUIRED TO PERFORM THE WORK.

GRADE ENTIRE CONSTRUCTION AREA OF PROPERTY TO REASONABLY TRUE AND EVEN SURFACES. SLOPE GROUND AWAY FROM BUILDING WALLS TO FACILITATE DRAINAGE. GRADE TO UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE GRADES ARE NOTED ON DRAWINGS. ROUND SURFACES AT ABRUPT CHANGES IN LEVEL.

BACKFILL BEHIND RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.

CUT SLOPES FOR PERMANENT EXCAVATIONS SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO I VERTICAL AND SLOPES FOR PERMANENT FILLS SHALL BE NOT STEEPER THAN 2 HORIZONTAL TO I VERTICAL UNLESS SUBSTANTIATING DATA JUSTIFYING STEEPER SLOPES ARE SUBMITTED.

ALSO SEE STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

FOUNDATION FOOTINGS SHALL BE PLACED UPON FIRM, UNDISTURBED NATIVE SOIL. NOTIFY ARCHITECT IF UNDISTURBED SOIL DEPTH IS DIFFERENT FORM DRAWINGS. MINIMUM FOOTING DEPTH 24" BELOW ADJACENT FINISH GRADE.

FOUNDATIONS SUPPORTING WOOD SHALL EXTEND AT LEAST 8 INCHES ABOVE THE ADJACENT FINISH GRADE.

FOUNDATIONS FOR ALL BUILDINGS WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN I FOOT IN 10 FEET SHALL BE LEVEL, OR SHALL BE STEPPED SO THAT BOTH TOP AND BOTTOM OF SUCH FOUNDATION ARE LEVEL.

INDIVIDUAL CONCRETE PIER FOOTINGS SHALL PROJECT A MINIMUM OF 8 INCHES ABOVE EXPOSED GROUND UNLESS THE COLUMNS OR POSTS IN WHICH THEY SUPPORT ARE OF APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD.

COLUMNS AND POSTS LOCATED ON CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO THE WEATHER OR TO WATER SPLASH OR IN BASEMENTS AND WHICH SUPPORT PERMANENT STRUCTURES SHALL BE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING ABOVE FLOORS UNLESS APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD IS ISED. THE PEDESTALS SHALL PROJECT AT LEAST 6 INCHES ABOVE EXPOSED EARTH AND AT LEAST I INCH ABOVE SUCH FLOORS.

ALSO SEE STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

ALL LUMBER, PLYWOOD, PARTICLEBOARD, STRUCTURAL GLUED-LAMINATED TIMBER, AND JOINTED LUMBER, FIBERBOARD SHEATHING (WHEN USED STRUCTURALLY), HARDBOARD SIDING (WHEN USED STRUCTURALLY), PILES AND POLES SHALL CONFORM TO THE APPLICABLE STANDARDS OR GRADING RULES SPECIFIED IN THE I.R.C. AND SHALL BE SO IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.

ALL LUMBER, TIMBER, PLYWOOD, AND POLES REQUIRED TO BE TREATED WOOD UNDER SHALL BE IDENTIFIED BY THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY WHICH MAINTAINS CONTINUED SUPERVISION, TESTING, AND INSPECTION OVER THE QUALITY OF THE PRODUCT AS SPECIFIED IN U.B.C.

DELIVERY AND STORAGE: KEEP MATERIALS UNDER COVER AND DRY. PROTECT AGAINST EXPOSURE TO WEATHER AND CONTACT WITH DAMP OR WET SURFACES. STACK LUMBER AS WELL AS PLYWOOD AND OTHER PANELS; PROVIDE FOR AIR CIRCULATION WITHIN AND AROUND STACKS AND UNDER TEMPORARY COVERINGS INCLUDING POLYETHYLENE AND SIMILAR MATERIALS.

FRAME NAILING TO BE IN COMPLIANCE WITH TABLE NO. 23-11-B, I.R.C.

WOOD MEMBERS ENTERING MASONRY OR CONCRETE REQUIRES ONE-HALF INCH NET AIR SPACE ON TOP, SIDES, AND END.

FOR CONVENTIONAL CONSTRUCTION, THE ENDS OF EACH JOIST SHALL HAVE NOT LESS THAN 1-1/2 INCHES OF BEARING ON WOOD OR METAL, NOR LESS THAN 3 INCHES ON MASONRY EXCEPT WHERE SUPPORTED ON A I X 4 RIBBON STRIP NAILED TO ADJOINING STUD. BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS, OR PARTITIONS MORE THAN JOIST DEPTH.

JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS SHALL BE DOUBLED.

SOLID BLOCKING SHALL BE PROVIDED OVER BEARING PARTITIONS, WALLS,

FIRE BLOCKING AND DRAFT STOPPING SHALL BE INSTALLED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND SHALL FORM AND EFFECTIVE BARRIER BETWEEN FLOORS, BETWEEN TOP STORY AND A ROOF OR ATTIC SPACE. FIRE BLOCKING SHALL CONSIST OF 2-INCH NOMINAL LUMBER. FIRE BLOCKING SHALL BE REQUIRED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS AND AT 10 FOOT INTERVALS BOTH HORIZONTALLY AND VERTICALLY; AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS; BETWEEN STAIR STRINGERS AT TOP AND BOTTOM AND ALONG RUN BETWEEN STUDS; IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES AND SIMILAR OPENINGS WITH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NON-COMBUSTIBLE MATERIALS.

ALL WOOD EXPOSED TO WEATHER, SUCH AS WOOD USED FOR DECK FRAMING INCLUDING DECKING, RAILINGS, JOISTS, BEAMS, AND POSTS SHALL BE PRESSURE TREATED OR CEDAR PER I.R.C.

ROOF SHEATHING SHALL BE IN ACCORDANCE WITH L.R.C. PLYWOOD ROOF SHEATHING EXPOSED ON THE UNDERSIDE SHALL BE BONDED WITH EXTERIOR GLUE. APPLICATION OF ROOF COVERING MATERIALS SHALL BE IN ACCORDANCE WITH I.R.C.

THE NET FREE VENTILATING AREA OF ENCLOSED RAFTER OR ATTIC SPACES OR OTHER ENCLOSED BUT UNHEATED SPACES SHALL BE NOT LESS THAN 1/150 OF THE AREA OF EACH SPACE TO BE VENTILATED, EXCEPT THAT THE AREA MAY BE 1/300, PROVIDED THAT 50% OF THE REQUIRED VENTILATING AREA IS LOCATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE BEING PROVIDED BY THE EAVE OR CORNICE VENTS, OR IF A VAPOR RETARDER NOT EXCEEDING A I PERM RATING IS INSTALLED ON THE WARM SIDE OF THE INSULATION. THE VENT AREA OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH MESH OPENINGS OF 1/4 INCH IN

EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE WINDOW OR EXTERIOR DOOR APPROVED FOR EMERGENCY ESCAPE OR RESCUE. ESCAPE OR RESCUE WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. WHERE WINDOWS ARE PROVIDED AS A MEANS OF ESCAPE OR RESCUE, THEY SHALL HAVE A FINISHED SILL HEIGHT NOT MORE THAN 44 INCHES ABOVE THE FLOOR.

ALL CORRIDORS SHALL BE NOT LESS THAN 36 INCHES WIDE.

STAIRWAYS & RAILS

MAXIMUM RISE 7-3/4 INCHES. MINIMUM RUN 10 INCHES; HEADROOM MINIMUM 6 FEET 8 INCHES; MINIMUM WIDTH 36 INCHES. HANDRAILS TO HAVE ENDS RETURNED AND PLACED MINIMUM 34 INCHES; MAXIMUM 38 INCHES ABOVE TREAD NOSING. UNLESS DESIGNATED FOR THE DISABLED, THE HANDGRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4 INCHES NOR MORE THAN 2 INCHES IN CROSS-SECTIONAL DIMENSION OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HANDGRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL

A FLOOR OR LANDING IS REQUIRED ON EACH SIDE OF AN EXTERIOR DOOR. AN EXTERIOR DOOR MAY OPEN AT A LANDING THAT IS NOT MORE THAN & INCHES LOWER THAN THE FLOOR LEVEL, PROVIDED THE DOOR DOES NOT SWING OVER

STAIRS AND EXIT BALCONIES SHALL BE POSITIVELY ANCHORED TO THE PRIMARY STRUCTURE AT 8 FEET ON CENTER MAX, OR BE DESIGNED FOR LATERAL FORCES. SUCH ATTACHMENT SHALL NOT BE ACCOMPLISHED BY USE OF TOENAILS OR NAILS SUBJECT TO WITHDRAWAL.

SAFETY GLASS COMPLYING WITH IS REQUIRED IN THE FOLLOWING LOCATIONS: A. GLAZING IN EGRESS AND INGRESS DOORS EXCEPT JALOUSIES. B. GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SWINGING DOORS OTHER THAN WARDROBE DOORS. C. GLAZING IN STORM DOORS.

D. GLAZING IN UNFRAMED SWINGING DOORS. E. GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS.

GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE DRAIN INLET. F. GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE

NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE T WALKING SURFACE. G. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS E AND F ABOVE, THAT MEETS ALL OF THE

FOLLOWING CONDITIONS: EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET. EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR. EXPOSED TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR. ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

H. GLAZING IN RAILINGS REGARDLESS OF HEIGHT ABOVE THE WALKING

EXCEPTION: THE FOLLOWING PRODUCTS AND APPLICATIONS ARE EXEMPT FROM THE REQUIREMENTS FOR HAZARDOUS LOCATIONS AS LISTED IN ITEMS A

GLAZING IN ITEM F WHEN THERE IS AN INTERVENING WALL OR OTHER PERMANENT BARRIER BETWEEN THE DOOR AND THE GLAZING. GLAZING IN ITEM G WHEN A PROTECTIVE BAR IS INSTALLED ON THE ACCESSIBLE SIDE OF THE GLAZING 34 TO 38 INCHES ABOVE THE FLOOR. THE BAR SHALL BE ABLE TO WITHSTAND A HORIZONTAL LOAD OF 50 P.L.F. WITHOUT CONTACTING THE GLASS AND BE A MINIMUM OF 1-1/2 INCHES IN HEIGHT. OPENINGS THROUGH WHICH A 3-INCH SPHERE CANNOT PASS. ASSEMBLIES OF LEADED, FACETED OR CARVED GLASS IN ITEMS A, B, F AND G WHEN USED FOR

DECORATIVE PURPOSES. GLASS BLOCK PANELS COMPLYING WITH I.R.C.

SKYLIGHT GLAZING TO BE CONSTRUCTED OF: LAMINATED GLASS WITH A MINIMUM 0.015-INCH (0.38 mm) POLYVINYL BUTYRAL INTERLAYER FOR GLASS PANES 16 SQUARE FEET (1.5 m2) OR LESS IN AREA LOCATED SUCH THAT THE HIGHEST POINT OF THE GLASS IS NOT MORE THAN 12 FEET (3658 mm) ABOVE A WALKING SURFACE OR OTHER ACCESSIBLE AREA - FOR HIGHER OR LARGER SIZES, THE MINIMUM INTERLAYER THICKNESS SHALL BE 0.030 INCH (0.76 mm); FULLY TEMPERED GLASS; HEAT-STRENGTHENED GLASS; WIRED GLASS; APPROVED RIGID PLASTICS PER R308.6.2

ALL UNIT SKYLIGHTS INSTALLED IN A ROOF WITH A PITCH FLATTER THAN THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE) SHALL BE MOUNTED ON A CURB EXTENDING AT LEAST 4 INCHES (102 mm) ABOVE THE PLANE OF THE ROOF UNLESS OTHERWISE SPECIFIED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PER R308.6.8.

UNIT SKYLIGHTS SHALL BE TESTED BY AN APPROVED INDEPENDENT LABORATORY, AND BEAR A LABEL IDENTIFYING MANUFACTURER, PERFORMANCE GRADE RATING, AND APPROVED INSPECTION AGENCY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF AAMA/WDMA 101/1.S.2/NAFS PER R308.6.9.

FASTENERS AND ANCHORAGES: PROVIDE NAILS, SCREWS AND OTHER ANCHORING DEVICES OF TYPE, SIZE, MATERIAL AND FINISH SUITABLE FOR INTENDED USE AND REQUIRED TO PROVIDE SECURE ATTACHMENT, CONCEALED WHERE POSSIBLE. HOT-DIP GALVANIZE FASTENERS FOR WORK EXPOSED TO EXTERIOR AND HIGH HUMIDITIES TO COMPLY WITH ASTM A 153.

STANDING AND RUNNING TRIM: INSTALL WITH MINIMUM NUMBER OF JOINTS POSSIBLE, USING FULL-LENGTH PIECES FROM MAXIMUM LENGTH OF LUMBER AVAILABLE. COPE AT RETURNS, MITER AT CORNERS TO PRODUCE TIGHT FITTING JOINTS. USE SCARF JOINTS FOR END-TO-END JOINTS.

INSTALL FINISH CARPENTRY WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. SCRIBE AND CUT FINISH CARPENTRY ITEMS TO FIT ADJOINING WORK. ANCHOR FINISH-CARPENTRY WORK SECURELY TO SUPPORTS AND SUBSTRATES, USING CONCEALED FASTENERS AND BLIND NAILING WHERE POSSIBLE. USE FINE FINISHING NAILS FOR EXPOSED NAILING EXCEPT AS INDICATED, COUNTERSUNK AND FILLED FLUSH WITH FINISHED SURFACE.

ACCESS HATCH AND DOORS

ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES (E.G., ATTICS AND CRAWL SPACES) SHALL BE WEATHER-STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. ACCESS SHALL BE PROVIDED TO ALL EQUIPMENT THAT PREVENTS DAMAGING OR COMPRESSING THE INSULATION. A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER MUST BE PROVIDED WHEN LOOSE FILL INSULATION IS INSTALLED. WHEN EAVE VENTS ARE INSTALLED, BAFFLING OF THE VENT OPENINGS SHALL BE PROVIDED SO AS TO DEFLECT THE INCOMING AIR ABOVE THE SURFACE OF THE INSULATION. BAFFLES SHALL BE RIGID MATERIAL, RESISTANT TO WIND DRIVEN MOISTURE. SECTION 502.1.4.4.

CLEARANCES. WHERE REQUIRED, INSULATION SHALL BE INSTALLED WITH CLEARANCES ACCORDING TO MANUFACTURER'S SPECIFICATIONS. INSULATION SHALL BE INSTALLED SO THAT REQUIRED VENTILATION IS UNOBSTRUCTED. FOR BLOWN OR POURED LOOSE FILL, INSULATION CLEARANCES SHALL BE MAINTAINED THROUGH INSTALLATION OF A PERMANENT RETAINER.

ALL INSULATION MATERIALS, INCLUDING FACINGS SUCH AS VAPOR BARRIERS OR BUILDING PAPERS, INSTALLED WITHIN FLOOR/CEILING ASSEMBLIES, ROOF/CEILING ASSEMBLIES, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAME-SPREAD RATING NOT TO EXCEED 25, AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH I.B.C. STANDARD NO.8-1. EXCEPTIONS: A) FOAM PLASTIC INSULATION SHALL COMPLY WITH SECTION 2606 OF THE INTERNATIONAL BUILDING CODE; AND B) WHEN SUCH INSULATION ARE INSTALLED IN CONCEALED SPACES, THE FLAME SPREAD AND SMOKE-DENSITY LIMITATIONS DO NOT APPLY TO THE FACING, PROVIDED THAT THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, FINISH.

ROOFS / CEILINGS

MAINTAIN I" VENTILATION ABOVE BATT & RIGID INSULATION. IF BAFFLES ARE USED THEY SHALL BE RESISTANT TO MOISTURE, BE OF RIGID MATERIAL, AND INSTALLED TO AND EXTEND 6" VERTICALLY ABOVE BATTS OR 12" VERTICALLY ABOVE LOOSE FILL.

ALL WALL INSULATION SHALL FILL THE ENTIRE CAVITY. EXTERIOR WALL CAVITIES ISOLATED DURING FRAMING (SUCH AS BEHIND BATHTUBS AND SHOWERS) SHALL BE FULLY INSULATED TO THE LEVELS OF SURROUNDING WALLS. ALL FACED INSULATION SHALL BE FACE STAPLED TO AVOID COMPRESSION.

ALL FLOOR INSULATION SHALL BE INSTALLED IN A PERMANENT MANNER IN SUBSTANTIAL CONTACT WITH THE SURFACE BEING INSULATED. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24 INCHES ON CENTER. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION.

PERIMETER INSULATION INSTALLED ON THE INSIDE OF THE FOUNDATION WALL SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM OF 24 INCHES. INSULATION INSTALLED ON THE OUTSIDE OF THE FOUNDATION SHALL EXTEND DOWNWARD FROM THE TOP TO THE BOTTOM OF THE FOOTING. THERMAL BREAKS SHALL BE PLACED IN THE SLAB BETWEEN CONDITIONED AND UNCONDITIONED SPACES. THE ENTIRE AREA OF A RADIANT SLAB SHALL BE THERMALLY ISOLATED FROM THE SOIL. THE INSULATION SHALL BE AN

APPROVED PRODUCT FOR ITS INTENDED USE. A. BELOW GRADE EXTERIOR WALL INSULATION (COLD) SIDE OF THE WALL SHALL EXTEND FROM THE TOP OF THE BELOW GRADE WALL TO THE TOP OF THE BELOW GRADE FLOOR AND SHALL BE APPROVED FOR BELOW-GRADE USE. ABOVE GRADE INSULATION SHALL BE PROTECTED. B. INSULATION USED ON THE INTERIOR (WARM SIDE OF THE WALL) SHALL EXTEND FROM THE TOP OF THE BELOW-GRADE WALL TO THE BELOW-GRADE

FLASHINGS

FLOOR LEVEL.

ALL FLASHINGS TO BE 26 GA GALVANIZED METAL OR ALUMINUM ALLOY ANODIZED FINISH. INSTALL FLASHINGS IN ALL LOCATIONS TO MAKE BUILDING MATERTIGHT. THESE AREAS MOULD INCLUDE BUT NOT BE LIMITED TO COPINGS, CAPS, GRAVEL STOPS, BEAM CAPS, DRIP CAPS OVER DOORS WINDOWS AND OTHER OPENINGS, AND ROOF AND WALL INTERSECTIONS.

R-30

VAULTED CEILING:

MSEC COMPLIANCE ENERGY CALCULATIONS: (MINIMUM REQUIREMENTS) FOR WINDOW SIZES SEE WINDOW SCHEDULE

PER 2006 WASHINGTON STATE ENERGY CODE CHAPTER 6 QUALIFICATION FORM: ZONE I: OPTION IV: UNLIMITED CEILING W/ATTIC:

WALL ABOVE GRADE: R-21 WALL BELOW GRADE, EXT.: R-10 FLOOR. SLAB ON GRADE: VERTICAL GLAZING U-FACTOR: 0.35 OVERHEAD GLAZING U-FACTOR: 0.58 DOOR U-FACTOR:

CAULKING AND SEALANT

THE FOLLOWING OPENINGS IN THE BUILDING ENVELOPE SHALL BE CAULKED OR OTHERWISE SEALED TO LIMIT INFILTRATION. AROUND GLAZING AND DOOR FRAMES, BETWEEN THE UNIT AND THE INTERIOR SHEET ROCK OR THE TOUGH FRAMING AS SHOWN IN DETAILS WITH SPRAY FOAM SEALER; BETWEEN ALL EXTERIOR WALL SOLE PLATES AND THE STRUCTURAL FLOOR, USING TWO ROWS OF CAULKING AS SHOWN IN DETAILS; OVER ALL FRAMING JOINTS WHERE FLOORS OVER CONDITIONED SPACES INTERSECT EXTERIOR WALLS (E.G. AT RIM AND BAND JOISTS) AS SHOWN IN DETAILS; AROUND OPENINGS IN THE BUILDING ENVELOPE FOR DUCTS, PLUMBING, ELECTRICITY, TELEPHONE, AND CABLE TELEVISION LINES IN WALLS, CEILINGS AND FLOORS; AT OPENINGS IN THE CEILING, (E.G. WHERE CEILING PANELS MEET INTERIOR AND EXTERIOR WALLS; AT EXPOSED BEAMS, MASONRY FIREPLACES, WOODSTOVE FLUES, ETC.); AT PENETRATIONS. ALL OPENINGS IN THE AIR BARRIER INCLUDING SPACES AROUND PLUMBING, ELECTRIC CONDUITS AND BOXES, AND TELEPHONE SERVICE ENTRANCES. PENETRATIONS OF EXTERIOR CEILINGS AND WALLS BY METAL INSULTED FLUES SHALL BE SEALED ACCORDING TO MANUFACTURER'S SPECIFICATIONS; AT RECESSED LIGHTING FIXTURES IN UNHEATED AREAS, SEAL AROUND THE EXTERIOR CAN TO BE AIR TIGHT, THE MOUNTING FLANGE ON THE EXTERIOR CAN IS CAULKED TO THE GWB. AT ELECTRICAL OUTLETS; SEAL GAPS BETWEEN GWB AND OUTLET BOX.

SUPPLEMENTAL CONDITIONS

CONTRACTOR'S GENERAL COMMERCIAL LIABILITY INSURANCE SHALL CONTAIN NO EXCLUSION THAT WOULD DENY COVERAGE FOR ANY CLAIM FOR EITHER BODILY INJURY OR PROPERTY DAMAGE ARISING OUT OF OR OTHERWISE CAUSED, IN WHOLE OR IN PART, BY ANY FUNGUS, MILDEW, MOLD, OR RESULTING ALLERGENS. IF SUCH EXCLUSION EXISTS AND CANNOT BE REMOVED BY ENDORSEMENT, CONTRACTOR SHALL SUBMIT PROOF OF COVERAGE FOR MOLD CLAIMS UNDER A POLLUTION LEGAL LIABILITY OR CONTRACTOR'S POLLUTION LIABILITY POLICY.

WHOLE HOUSE MECHCANICAL VENTILATION

WHOLE HOUSE VENTILATION SYSTEM SHALL COMPLY WITH WASHINGTON STATE VENTILATION CODE REQUIREMENTS, FOR SIZING, CONTROLS, DUCTING, NOISE AND OTHER REQUIREMENTS.

EXHAUST FANS PROVIDING SOURCE SPECIFIC VENTILATION SHALL HAVE MINIMUM FAN FLOW RATING NOT LESS THAN 50 CFM AT 0.25 INCHES WATER GAUGE FOR BATHROOM LAUNDRIES OR SIMILAR ROOMS AND 100 CFM AT 0.25 INCHES WATER GAUGE FOR KITCHENS.

WHOLE HOUSE VENTILATION SYSTEMS MAY CONSIST OF WHOLE HOUSE EXHAUST, INTEGRATION WITH FORCED-AIR SYSTEMS OR DEDICATED HEAT RECOVERY VENTILATION SYSTEMS. WHOLE HOUSE EXHAUST SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS:

BEDROOMS (CFM MIN CFM MAX)

< 2000 sf <3000 sf <4000 sf <5000 sf 0,1,2 75 / 105 75 / 113 85 / 120 95 / 143 85 / 128 90 / 135 110 / 165 110 / 165 4 100 / 150 105 / 168 125 / 188 130 / 195 5 | 115 / 177 | 120 / 180 | 140 / 210 | 140 / 210

INTEGRATED FORCED-AIR VENTILATION SYSTEMS SHALL HAVE 6 INCH DIAMETER OR EQUIVALENT OUTDOOR AIR INLET DUCT CONNECTING A TERMINAL ELEMENT ON THE OUTSIDE OF THE BUILDING TO THE RETURN PLENUM OF THE FORCED-AIR SYSTEM. THE OUTDOOR AIR INLET DUCT SHALL BE EQUIPPED WITH A DAMPERS OR OTHER DEVICE THAT REGULATES AIRFLOW TO MINIMUM OF 0.35 AIR CHANGES PER HOUR BUT NOT CREATE THE 0.50 AIR CHANGES PER HOUR UNDER NORMAL OPERATIC CONDITIONS.

OUTDOOR AIR SHALL BE SUPPLIED BY EITHER MECHANICAL MEANS OR WITH

INDIVIDUAL ROOM 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 FOUR SQUARE INCHES AND TESTED BY A NATIONALLY RECOGNIZED STANDARD OR APPROVED AGENCY AND LOCATED TO AVOID DRAFTS DOMESTIC KITCHEN RANGE VENTILATION AND DOMESTIC CLOTHES DRYERS SHALL BE OF METAL AND HAVE SMOOTH INTERIOR SURFACES. DUCTS SHALL BE SUBSTANTIALLY AIRTIGHT AND SHALL COMPLY WITH THE PROVISIONS OF THE I.M.C. EXHAUST DUCTS SHALL TERMINATE OUTSIDE OF THE BUILDING AND BE EQUIPPED WITH BACK DRAFT DAMPERS. DOMESTIC CLOTHES DRYERS SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE IF IN AN AREA THAT IS HABITABLE OR CONTAINING OTHER FUEL BURNING APPLIANCES AND SHALL MEET THE PROVISIONS OF THE U.M.C., AS WELL AS CLOTHES DRYER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DRYER EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE FLOW. UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER AMANUFACTURER'S INSTRUCTIONS AND APPROVED BY THE BUILDING OFFICIAL, DRYER EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET, INCLUDING TWO 90-DEGREE ELBOWS. TWO

WATER CLOSET COMPARTMENT MINIMUM 30" WIDE WITH 2' CLEAR SPACE IN FRONT OF STOOL.

FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE ELBOW IN EXCESS OF TWO.

SHOWER WALLS SHALL BE RELATIVELY SMOOTH, HARD, NONABSORBENT, AND NOT ADVERSELY AFFECTED BY MOISTURE TO A HEIGHT OF NOT LESS THAN TO INCHES ABOVE THE DRAIN INLET. WHEN GYPSUM IS USED AS A BASE FOR TILE OR WALL PANELS FOR TUB OR SHOWER ENCLOSURES OR WATER CLOSET COMPARTMENTS WALLS, WATER-RESISTANT GYPSUM BACKING BOARD COMPLYING WITH I.B.C. SHALL BE USED, EXCEPT THAT WATER-RESISTANT GYPSUM BOARD SHALL NOT BE USED IN THE FOLLOWING LOCATIONS: A) OVER A VAPOR RETARDER; B) IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS SAUNAS OR STEAM ROOMS; AND C) ON CEILINGS.

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BEDROOMS (CFM MIN CFM MAX) < 2000 sf <3000 sf <4000 sf <5000 sf 3 85 / 128 90 / 135 110 / 165 110 / 165 4 100 / 150 105 / 168 125 / 188 130 / 195

UNDER NORMAL OPERATIC CONDITIONS.

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OUTDOOR AIR SHALL BE SUPPLIED BY EITHER MECHANICAL MEANS OR WITH INDIVIDUAL ROOM 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 FOUR SQUARE INCHES AND TESTED BY A NATIONALLY RECOGNIZED STANDARD OR APPROVED AGENCY AND LOCATED TO AVOID DRAFTS.

DOMESTIC KITCHEN RANGE VENTILATION AND DOMESTIC CLOTHES DRYERS SHALL BE OF METAL AND HAVE SMOOTH INTERIOR SURFACES. DUCTS SHALL BE SUBSTANTIALLY AIRTIGHT AND SHALL COMPLY WITH THE PROVISIONS OF THE I.M.C. EXHAUST DUCTS SHALL TERMINATE OUTSIDE OF THE BUILDING AND BE EQUIPPED WITH BACK DRAFT DAMPERS. DOMESTIC CLOTHES DRYERS SHALL BE EXHAUSTED DIRECTLY TO THE OUTSIDE IF IN AN AREA THAT IS HABITABLE OR CONTAINING OTHER FUEL BURNING APPLIANCES AND SHALL MEET THE PROVISIONS OF THE U.M.C., AS WELL AS CLOTHES DRYER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DRYER EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. DUCTS SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE FLOW. UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER AMANUFACTURER'S INSTRUCTIONS AND APPROVED BY THE BUILDING OFFICIAL, DRYER EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FEET, INCLUDING TWO 90-DEGREE ELBOWS. TWO

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ALL SOLID FUEL-BURNING APPLIANCES SHALL COMPLY WITH THE PROVISIONS OF I.M.C. WOOD STOVES SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR SAFE USE OR COMPLY WITH APPLICABLE NATIONALLY RECOGNIZED STANDARDS AS EVIDENCED BY THE LISTING AND LABEL OF AN APPROVED

LISTED APPLIANCES. THE INSTALLER SHALL LEAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS ATTACHED TO THE APPLIANCE. CLEARANCES OF LISTED APPLIANCES FROM COMBUSTIBLE MATERIALS SHALL BE AS SPECIFIED IN THE LISTING OR ON THE RATING PLATE.

ALL WARM AIR FURNACES SHALL BE LISTED AND LABELED BY AN APPROVED

AGENCY AND INSTALLED TO LISTED SPECIFICATIONS. NO WARM AIR FURNACES SHALL BE INSTALLED IN A ROOM USED OR DESIGNED TO BE USED AS A BEDROOM, BATHROOM, CLOSET, OR IN ANY ENCLOSED

SPACE WITH ACCESS ONLY THROUGH SUCH ROOM OR SPACE, EXCEPT DIRECT

VENT FURNACES, ENCLOSED FURNACES, AND ELECTRIC HEATING FURNACES. LIQUEFIED PETROLEUM GAS BURNING APPLIANCES SHALL NOT BE INSTALLED IN A PIT, BASEMENT, OR SIMILAR LOCATION WHERE HEAVIER-THAN-AIR GAS MIGHT

APPLIANCES SO FUELED SHALL NOT BE INSTALLED IN AN ABOVE GRADE UNDER FLOOR SPACE OR BASEMENT.NO WARM AIR FURNACE SHALL BE INSTALLED IN A CLOSET OR ALCOVE LESS THAN 12 INCHES WIDER THAN THE FURNACE OR FURNACES INSTALLED THEREIN WITH A MINIMUM CLEAR WORKING SPACE LESS THAN 3 INCHES ALONG THE SIDES, BACK, AND TOP OF THE

APPLIANCES DESIGNED TO BE IN A FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS WITHIN THE STRESS LIMITATIONS IN THE BUILDING CODE.

FIRE DAMPERS NEED NOT BE INSTALLED IN AIR DUCTS PASSING THROUGH THE WALL, FLOOR, OR CEILING SEPARATING A RESIDENCE (GROUP R, DIVISION 3 OCCUPANCY) FROM A GARAGE (GROUP U, DIVISION I OCCUPANCY), PROVIDED SUCH DUCTS WITHIN THE GARAGE ARE CONSTRUCTED OF STEEL HAVING A THICKNESS NOT LESS THAN O.019 INCH (NO. 26 GALVANIZED SHEET GAUGE) AND HAVE NO OPENINGS INTO THE GARAGE.

ALL FUEL BURNING EQUIPMENT SHALL BE PROVIDED WITH COMBUSTION AIR AND MEET THE PROVISIONS OF CHAPTER 6, I.M.C. APPLIANCES LOCATED WITHIN THE BUILDING ENVELOPE SHALL OBTAIN COMBUSTION AIR FROM OUTDOORS. HEATING EQUIPMENT LOCATED WITHIN THE BUILDING ENVELOPE SHALL BE THERMALLY ISOLATED FROM THE HEATED AREA.

EVERY APPLIANCE DESIGNED TO BE VENTED SHALL BE CONNECTED TO A VENTING SYSTEM COMPLYING WITH THE U.M.C.

EVERY FACTORY BUILT CHIMNEY, TYPE L VENT, TYPE B GAS VENT, OR TYPE BW GAS VENT SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF ITS LISTING, MANUFACTURER'S INSTRUCTIONS, AND THE APPLICABLE PROVISIONS OF

VENT CONNECTORS SHALL BE INSTALLED WITHIN THE SPACE OR AREA IN WHICH THE APPLIANCE IS LOCATED AND SHALL BE CONNECTED TO A CHIMNEY OR VENT IN SUCH A MANNER AS TO MAINTAIN THE CLEARANCE TO COMBUSTIBLES

THERMOSTAT-WALL THERMOSTAT, LOW VOLTAGE, HEAT ANTICIPATING. FOUR TIME PERIODS PER DAY WITH INTELLIGENT RECOVERY FEATURE.

SMOKE DETECTOR A SMOKE DETECTOR SHALL BE INSTALLED IN EACH SLEEPING ROOM AND AT A

POINT CENTRALLY

U.M.C.

LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO EACH SEPARATE SLEEPING AREA. WHEN THE DWELLING UNIT HAS MORE THAN ONE STORY AND IN DWELLINGS WITH A BASEMENT, A DETECTOR SHALL BE INSTALLED ON EACH LEVEL AND IN THE BASEMENT. IN DWELLING UNITS WHERE A STORY OR BASEMENT SPLIT INTO TWO OR MORE LEVELS, A DETECTOR SHALL BE INSTALLED ON THE UPPER LEVEL, EXCEPT THAT WHEN THE LOWER LEVEL CONTAINS A SLEEPING AREA, A DETECTOR SHALL BE PLACED ON EACH LEVEL. WHEN SLEEPING ROOMS ARE LOCATED ON THE UPPER LEVEL, A DETECTOR SHALL BE PLACED AT THE CEILING OF THE UPPER LEVEL IN CLOSE PROXIMITY TO THE STAIRWAY. WHERE THE CEILING HEIGHT OF A ROOM OPEN TO THE HALLMAY SERVING THE SLEEPING ROOMS EXCEEDS THAT OF THE HALLMAY BY 24 INCHES OR MORE, DETECTORS SHALL BE PLACED IN THE HALLWAY AND THE ADJACENT ROOM. DETECTORS SHALL SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS OF THE DWELLING UNIT. THE REQUIRED DETECTORS SHALL RECEIVE THEIR POWER FROM THE BUILDING WIRING AND BE EQUIPPED WITH A BATTERY BACKUP. THE DETECTOR SHALL EMIT A SIGNAL WHEN THE BATTERIES grouparchitect

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project address

Ray Ranstrom

BUILDING PERMIT SUBMITTAL

JUNE 1, 2010

06-01-10 PERMIT SUBMITTAL

05-11-10 CLIENT REVIEW

architectural notes

project no:

checked:

ROOF VENTILATION CALCULATIONS

ROOF AT HEATED AREA = 1612 SF 1612/300 = 5.37 SF OR 774 SQ. IN REQ'D

384 SQ. IN @ EAVES - EXISTING (6"XI6" VENTS)
PROVIDE 390 SQ. IN @ RIDGE (MIN)
8 AF-50 ROOF VENTS = 400 SQ. IN

ROOF PLAN NOTES

AS SHOWN

TYPICAL ROOF PITCH 4:12 UNLESS NOTED OTHERWISE, SEE ELEVATIONS

AF-50 ROOF VENT TYP. AT NEW LOCATIONS



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issue: BUILDING PERMIT SUBMITTAL

date issued:
JUNE 1, 2010

revisions

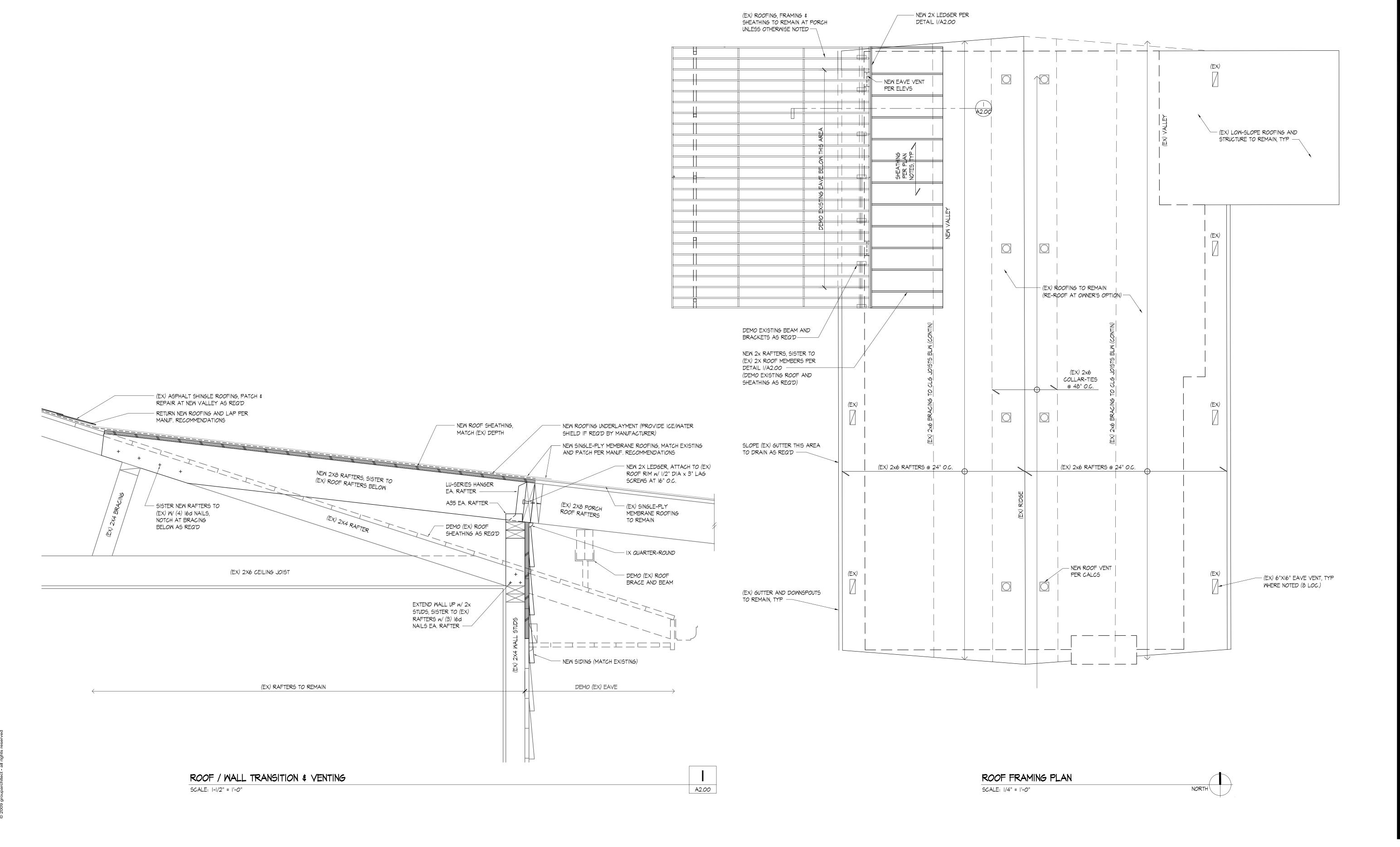
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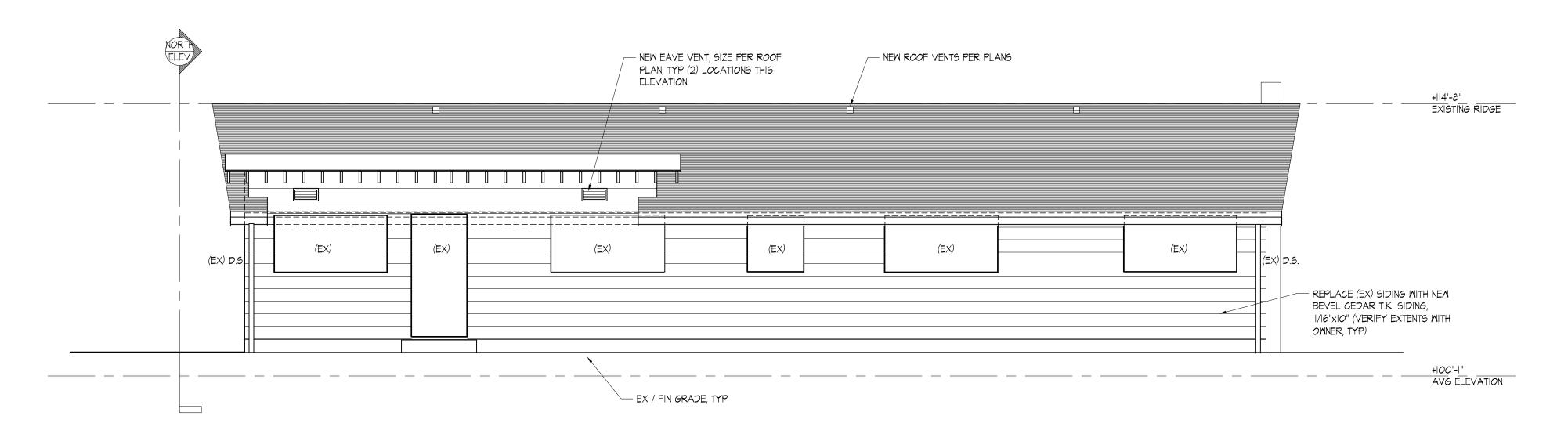
sheet title:
Roof Plan
Section & Details

drawn: checked: project no:

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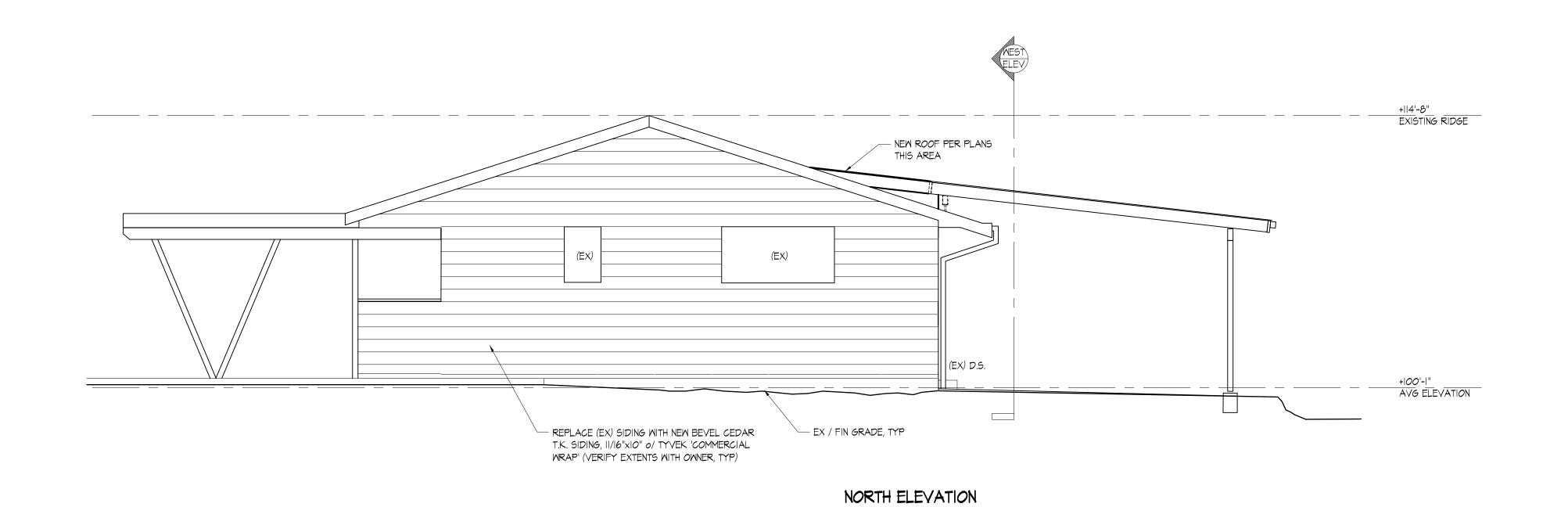
+125'-3" MAX ALLOWABLE ELEVATION



WEST ELEVATION

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

+125'-3" MAX ALLOWABLE ELEVATION



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

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Elevations

checked: