LEVEL DESIGN LLC



Tacoma Landmarks
Preservation Commission Planning and Development Services
City of Tacoma
747 Market Street

To Whom it May Concern,

The new accessory structure meets the guidelines for new construction exterior materials, windows and roof form and shape. The garage door is oriented to the alley and the structure maintains a simple roof plan.

The new detached accessory dwelling unit with a 2-car garage below utilizes a similar material palette and configuration to historic primary structures on the lot. The design elements are noted on the exterior elevation page 4/4.

Sincerely,

John Kilbourne President WIND LOAD = 85 MPH WIND SPEED, EXPOSURE "B" WIND LOAD = 110 MPH WIND SPEED, EXPOSURE "B" PER IBC

SOIL SITE CLASS "D" CONSTRUCTION TYPE: YB OCCUPANCY GROUP: R-3

CONTRACTOR SHALL VERIFY ALL NOTES, DIMENSIONS & CONDITIONS PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL OMISSIONS AND/OR DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK. DIMENSIONS TAKE PRECEDENT OVER SCALED DRAWINGS.

THE FOLLOWING IS A LIST OF ITEMS THAT ARE NOT INCLUDED IN THIS PLAN AND SHOULD BE PROVIDED BY THE BUILDER AT TIME OF APPLICATION FOR PERMIT OR AS A DEFERRED SUBMITTAL ITEM: - ALTERNATIVE I-JOIST/BEAM MANUFACTURER PLANS. - MANUFACTURED TRUSS DESIGNS AND LAYOUTS

- HYAC SYSTEMS DESIGN - ELECTRICAL PLANS & SPECIFICATIONS (IF REQUIRED)

SITE WORK

GENERAL

UNLESS A SOILS INVESTIGATION BY A QUALIFIED SOILS ENGINEER IS PROVIDED FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF <u>1500 PSF</u> EXTERIOR FOOTINGS SHALL BEAR 18" (MINIMUM) BELOW FINISHED GRADE. ALL FOOTINGS TO BEAR ON FIRM UNDISTURBED EARTH BELOW ORGANIC SURFACE SOILS. BACKFILL TO BE THOROUGHLY COMPACTED.

BOLT HEADS AND NUTS BEARING AGAINST WOOD TO BE PROVIDED WITH 1/4"x3"x3" PLATE WASHERS. WOOD BEARING ON OR INSTALLED WITHIN 1" OF MASONRY OR CONCRETE TO BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE.

FOUNDATION SILL BOLTS TO BE 5/8" DIAMETER AT 6'-0" O.C. U.N.O. WITH MIN, T" EMBEDMENT METAL FRAMING CONNECTORS TO BE MANUFACTURED BY SIMPSON STRONG-TIE OR USP STRUCTURAL CONNECTORS

INSULATION AND MOISTURE PROTECTION

MAINTAIN I" CLEARANCE ABOVE INSULATION FOR FREE AIR FLOW, INSULATION BAFFLES TO EXTEND 6" ABOVE BATT INSULATION INSULATION BAFFLES TO EXTEND 12" ABOVE LOOSE FILL INSULATION INSULATE BEHIND TUBS/SHOWERS, PARTITIONS AND CORNERS FACE-STAPLE FACED BATTS

FRICTION-FIT UNFACED BATTS

USE 4 MIL POLY VAPOR RETARDER AT EXTERIOR WALLS R-10 INSULATION UNDER ELECTRIC WATER HEATERS.

INSULATION MATERIALS

INSULATION MATERIAL, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPOR PERMEABLE MEMBRANES INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES, AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84

EXCEPTIONS:

1. WHEN SUCH MATERIAL ARE INSTALLED IN CONCEALED SPACES, THE FLAME-SPREAD AND SMOKE-DEVELOPEMENT LIMITATIONS DO NOT APPLY TO THE FACINGS, PROVIDED THAT THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, OR WALL FINISH. 2. CELLULOSE LOOSE-FILL INSULATION, WHICH IS NOT SPRAY APPLIED, COMPLYING WITH THE REQUIREMENTS OF IRC R302.10.3, SHALL ONLY BE REQUIRED TO MEET THE SMOKE-DEVELOPED

INFILTRATION CONTROL

INDEX OF NOT MORE THAN 450.

EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, PENETRATIONS IN FLOORS, ROOFS AND WALLS AND ALL SIMILAR OPENINGS SHALL BE SEALED, CAULKED, GASKETED OR WEATHERSTRIPPED TO LIMIT AIR LEAKAGE. VAPOR BARRIERS / GROUND COVERS

AN APPROVED VAPOR BARRIER SHALL BE PROPERLY INSTALLED IN ROOF DECKS, IN ENCLOSED CEILING SPACES AND AT EXTERIOR WALLS. A GROUND COVER OF 6 MIL (0.006") BLACK POLYETHYLENE OR EQUIVALENT SHALL BE LAID OVER THE GROUND IN ALL CRAWL SPACES. THE GROUND COVER SHALL BE OVERLAPPED ONE FOOT AT EACH JOINT AND SHALL EXTEND TO THE FOUNDATION WALL.

APPROVED CORROSION-RESISTANT FLASHING SHALL BE PROVIDED IN THE EXTERIOR WALL ENVELOPE IN SUCH A MANNER AS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO 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 ALL OF THE FOLLOWING LOCATIONS:

1. AT TOP OF ALL EXTERIOR WINDOW AND DOOR OPENINGS IN SUCH A MANNER AS TO BE LEAKPROOF, EXCEPT THAT SELF-FLASHING WINDOWS HAVING A CONTINUOUS LAP OF NOT LESS THAN 1-1/8" (28 mm) OVER THE SHEATHING MATERIAL AROUND THE PERIMETER OF THE OPENING, INCLUDING CORNERS, DOO NOT REQUIRE ADDITIONAL FLASHING! JAMB FLASHING MAY ALSO BE

OMITTED WHEN SPECIFICALLY APPROVED BY THE BUILDING OFFICIAL. 2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO OPENINGS.

3. UNDER AND AT THE ENDS OF MASONRY, WOOD, OR METAL COPINGS AND SILLS. 4. CONTINUOUSLY ABOVE ALLPROJECTING WOOD TRIM.

5. WHERE EXTERIOR PORCHES, DECKS, OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD CONSTRUCTION.

6. AT WALL AND ROOF INTERSECTIONS.

7. AT BUILT-IN GUTTERS.

FOUNDATION WATERPROOFING & DAMPROOFING

DAMPROOFING

EXCEPT WHERE REQUIRED BY 2021 IRC R406.2 TO BE WATERPROOFED, FOUNDATION WALLS THAT RETAIN EARTH OR ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE TOP OF THE FOOTING TO THE FINISHED GRADE. MASONRY WALLS SHALL HAVE NOT LASS THAN 🐉 PORTLAND CEMENT PARGING APPLIED TO THE EXTERIOR OF THE WALL. PARGING SHALL BE DAMPROOFED IN ACCORDANCE WITH ONE OF THE FOLLOWING.

1. BITUMINOUS COATING 2. 3 POUNDS PER SQ. YD. OF ACRYLIC MODIFIED CEMENT

3. ½" COAT OF SURFACE BONDING CEMENT COMPLYING WITH ASTN C 887 4. ANY MATERIAL APPROVED FOR WATERPFOORING IN 2021 IRC R406.2

5. OTHER APPROVED METHODS OR MATERIALS.

EXCEPTION: PARGING OF UNIT MASONRY WALLS IS NOT REQUIRED WHERE A MATERIAL IS APPROVED FOR DIRECT APPLICATION TO THE MASONRY.

FOUNDATION WATERPROOFING

DAMPROOFING (CONTINUED) WATERPROOFING

IN AREAS WHERE HIGH WATER TABLE OR OTHER SEVERE SOIL-WATER CONDITIONS ARE KNOWN TO EXIST, EXTERIOR FOUNDATION WALLS THAT RETAIN EARTH OR ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE WATERPROOFED FROM THE TOP OF FOOTING TO FINISHED GRADE, WALLS SHALL BE WATERPROOFED IN ACCORDANCE WITH ONE OF THE FOLLOWING.

1. 2-PLY HOT MOPPED FELT 2.55 POUND ROOF ROLLING

3. 6-MIL POLYVINYL CHLORIDE 4.6-MIL POLYETHYLENE

5. 40-MIL POLYMER-MODIFIED ASPHALT

6.60-MIL FLEXIBLE POLYMER CEMENT 1. $\frac{1}{8}$ " CEMENT-BASED, FIBER-REINFORCED, WATERPROOF COATING

8. 60-MIL SOLVANT-FREE, LIQUID-APPLIED SYNTHETIC RUBBER EXCEPTION: ORGANIC-SOLVANT-BASED PRODUCTS SUCH AS HYDROCARBONS, CHLORINATED HYDROCARBONS, KETONS AND ESTERS SHALL NOT BE USED FOR ICF WALLS WITH EXPANDED POLYSTYRENE FOAM MATERIAL, USE OF PLASTIC ROOFING CEMENTS, ACRYLIC COATINGS, LATEX COATINGS, MORTARS AND PARGINGS TO

SEAL ICF WALLS IS PERMITTED. COLD-SETTING ASPHALT OR HOT ASPHALT SHALL CONFORM TO TYPE C OF ASTM D 449. HOT ASPHALT SHALL BE APPLIED AT A TEMPERATURE OF LEGG THAN 200 DEG. F. ALL JOINTS IN MEMBRANE WATERPROOFING SHALL BE LAPPED AND SEALED WITH AN ADHESIVE COMPATIBLE WITH THE MEMBRANE.

DRAFTSTOPPING & FIRE BLOCKING

DRAFTSTOPPING

WHEN THERE IS USABLE SPACE BOTH ABOVE & BELOW THE CONCEALED SPACE OF A FLOOR/CEILING ASSEMBLEY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE & A CEILING MEMBRANE BELOW, DRAFTSTOPPING SHALL BE PROVIDED IN FLOOR/CEILING ASSEMBLIES UNDER THE FOLLOWING CIRCUMSTANCES:

1. CEILING IS SUSPENDED UNDER THE FLOOR FRAMING.

2. FLOOR FRAMING IS CONSTRUCTED OF TRUSS-TYPE OPEN-WEB OR PERFORATED MEMBERS. DRAFTSTOPPING SHALL CONSIST OF MATERIALS LISTED IN 2021 IRC R302.12

FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS: 1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS:

VERTICALLY AT THE CEILING AND FLOOR LEVELS.

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

3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH 2021 IRC R302.7 4. AT OPENINGS AROUND VENTS, PIPES, AND DUCTS AT CEILING AND FLOOR LEVEL, WITH AN

APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. 5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE 2021 IRC R1003.19. 6. FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF

FIREBLOCKING SHALL CONSIST OF MATERIALS LISTED IN 2021 IRC SECTION R302.11.1.3 LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIREBLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED. THE INTEGRITY OF ALL FIREBLOCKS SHALL BE MAINTAINED.

2021 WSEC SECTION R404- LIGHTING EQUIPMENT R404.1 LIGHTING EQUIPMENT. ALL PERMANENTLY INSTALLED LIGHTING FIXTURES, EXCLUDING KITCHEN APPLIANCE LIGHTING FIXTURES, SHALL CONTAIN ONLY HIGH-EFFICACY LIGHTING SOURCES. R404.12 LIGHTING EQUIPMENT: FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.

DRILLING AND NOTCHING STUDS.

DWELLING UNIT SEPERATION.

R6026 DRILLING AND NOTCHING OF STUDS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

I. NOTCHING. ANY STUD IN AN EXTERIOR WALL OR BEARING PARTITION SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH

2. DRILLING. ANY STUD SHALL BE PERMITTED TO BE BORED OR DRILL PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NOT MORE THAN 60 PERCENT OF A SINGLE STUD WIDTH, THE EDGE OF THE HOLE IS NOT MORE THAN 5/8 INCH (16 mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH. STUDS LOCATED IN EXTERIOR WALLS OR BEARING PARTITIONS DRILLED OVER 40 PERCENT AND UP TO 60 PERCENT SHALL BE DOUBLED WITH NOT MORE THAN TWO SUCCESSIVE DOUBLED STUDS BORED. SEE 2021 IRC FIGURES <u>R602.6(1)</u> AND <u>R602.6(2)</u> -EXCEPTION: USE OF APPROVED STUD SHOES IS PERMITTED WHEN THEY ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S

R602.6.1 DRILLING AND NOTCHING OF TOP PLATE.

RECOMMENDATIONS.

WHERE PIPING OR DUCTWORK IS PLACED IN OR PARTLY IN AN EXTERIOR WALL OR INTERIOR LOAD-BEARING WALL, NECESSITATING CUTTING, DRILLING OR NOTCHING OF THE TOP PLATE BY MORE THAN 50 PERCENT OF ITS WIDTH, A GALYANIZED METAL TIE OF NOT LESS THAN 0.054 INCH THICK (1.37 mm)(16 qa) AND 11/2 INCHES (38 mm) WIDE SHALL BE FASTENED ACROSS AND TO THE PLATE AT EACH SIDE OF THE OPENING WITH NOT LESS THAN EIGHT 10d (0.148 INCH DIAMETER) NAILS HAVING A MINIMUM LENGTH OF 1 1/2 INCHES (38 MM) AT EACH SIDE OR EQUIVALENT. THE METAL TIE MUST EXTEND NOT LESS THAN 6 INCHES PAST THE OPENING. SEE 2021 IRC FIGURE R602.6.1

-EXCEPTION: WHERE THE ENTIRE SIDE OF THE WALL WITH THE NOTCH OR CUT IS COVERED BY WOOD STRUCTURAL PANEL SHEATHING.

DOORS, WINDOWS AND SKYLIGHTS

GENERAL

ALL SKYLIGHTS AND SKY WALLS TO BE LAMINATED GLASS UNLESS NOTED OTHERWISE BEDROOM EMERGENCY EGRESS WINDOWS SHALL HAVE MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. WITH MINIMUM NET CLEAR OPENING WIDTH OF 20" AND MINIMUM NET CLEAR OPENING HEIGHT OF 24". FINISHED SILL HEIGHT SHALL BE MAXIMUM 44" ABOVE FLOOR, MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE CLEAR OPENING WINDOW FLASHING TO BE FASTENED PER 2021 IRC R703.4 WINDOW GUARDS ARE REQUIRED PER 2021 IRC R312.1

SAFETY GLAZING SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS OR AS OTHERWISE REQUIRED PER 2021 IRC R308.4.3 SIDE HINGED DOORS EXCEPT JALOUSIES

SLIDING GLASS DOORS AND PANELS IN SLIDING & BI-FOLD CLOSET DOOR ASSEMBLIES OF A DOOR IN THE CLOSED POSITION & BOTTOM EDGE IS LESS THAN 60" ABOVE SHOWER AND BATH TUB. HOT TUB. WHIRLPOOL, SAUNA, STEAM ENCLOSURES . GLAZING W/ THE EXPOSED EDGE WITHIN A 24" ARC OF EITHER VERTICAL EDGE

3 STORM DOORS THE WALKING SURFACE 5 GLAZING GREATER THAN 9 S.F. AND LESS THAN 18" ABOVE FINISHED FLOOR

6 GLAZING IN GUARDRAILS 1. GLAZING LESS THAN 18" ABOVE FINISHED FLOOR

8. STAIRS AND RAMPS ADJACENT WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF ADJACENT WALKWAY SURFACE OF STAIRWAYS LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDER A HAZARDOUS LOCATION. PER 2021 IRC R308.4.6

MECHANICAL

MI505.4.1.4 BALANCED WHOLE-HOUSE VENTILATION SYSTEM. A BALANCED WHOLE-HOUSE VENTILATION SYSTEM SHALL INCLUDE BOTH SUPPLY AND EXHAUST FANS. THE SUPPLY AND EXHAUST FANS SHALL HAVE AIRFLOW THAT IS WITHIN 10 PERCENT OF EACH OTHER. THE TESTED AND BALANCED TOTAL MECHANICAL EXHAUST AIRFLOW RATE IS WITHIN 10 PERCENT OR 5 CFM, WHICHEVER IS GREATER, OF THE TOTAL MECHANICAL SUPPLY AIRFLOW RATE. THE FLOW RATE TEST RESULTS SHALL BE SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION MI505.4.1.7. THE EXHAUST FAN SHALL MEET THE REQUIREMENTS OF SECTION MISOS.4.1.2. THE SUPPLY FAN SHALL MEET THE REQUIREMENTS OF SECTION MISO5.4.1.3. BALANCED VENTILATION SYSTEMS WITH BOTH SUPPLY AND EXHAUST FANS IN A PACKAGED PRODUCT, SUCH AS AN ERV/HRV SHALL MEET THE REQUIREMENTS OF HVI 920, AS APPLICABLE. LOCAL EXHAUST SYSTEMS THAT ARE NOT A COMPONENT OF THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM ARE EXEMPT FROM THE BALANCED AIRFLOW CALCULATION.

WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIRED BY SECTIONS MI505.4.3. AND MI505.4.4.1. TESTING SHALL BE PERFORMED ACCORDING TO THE VENTILATION EQUIPMENT MANUFACTURER'S INSTRUCTIONS, OR BY USING A FLOW HOOD, FLOW GRID, OR OTHER AIRFLOW MEASURING DEVICE AT THE MECHANICAL VENTILATION FAN'S INLET TERMINALS, OUTLET TERMINALS OR GRILLES OR IN THE CONNECTED VENTILATION DUCTS. WHERE REQUIRED BY THE BUILDING OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE BUILDING OFFICIAL AND BE POSTED IN THE DWELLING UNIT PER SECTION MI505.4.1.7.

WHOLE-HOUSE SYSTEM COMPONENT REQUIREMENTS, WHOLE-HOUSE VENTILATION SUPPLY AND EXHAUST FANS SPECIFIED IN THIS SECTION SHALL HAVE A MINIMUM EFFICACY AS PRESCRIBED IN THE WASHINGTON STATE ENERGY CODE. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS, WHOLE-HOUSE VENTILATION FANS SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION MI505.4.3.1. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 IN. W.C. (25 PA) STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN SECTIONS MI505.4.1.2 AND MI505.4.1.3.

EXCEPTION: HVAC AIR HANDLERS, ERV/HRV UNITS, AND REMOTE MOUNTED FANS NEED NOT MEET THE SOUND REQUIREMENTS. TO BE CONSIDERED FOR THIS EXCEPTION. A REMOTE MOUNTED FAN MUST BE MOUNTED OUTSIDE THE HABITABLE SPACES. BATHROOMS, TOILETS, AND HALLWAYS, AND THERE MUST BE AT LEAST 4 FEET (1.3 M) OF DUCTWORK BETWEEN THE FAN AND THE INTAKE GRILLE.

CONTROLS FOR THE WHOLE-HOUSE VENTILATION SYSTEM SHALL COMPLY WITH THE FOLLOWING:

THE WHOLE-HOUSE VENTILATION SYSTEM SHALL BE CONTROLLED WITH MANUAL SWITCHES, TIMERS OR OTHER MEANS THAT PROVIDE FOR AUTOMATIC OPERATION OF THE VENTILATION SYSTEM THAT HAVE READY ACCESS FOR THE OCCUPANT.

2. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE OFF OF THE SYSTEM BY THE OCCUPANT DURING PERIODS OF POOR OUTDOOR AIR QUALITY CONTROLS SHALL INCLUDE PERMANENT TEXT OR A SYMBOL INDICATING THEIR FUNCTION. RECOMMENDED CONTROL PERMANENT LABELING TO INCLUDE TEXT SIMILAR TO THE FOLLOWING: "LEAVE ON UNLESS OUTDOOR AIR QUALITY IS VERY POOR." MANUAL CONTROLS SHALL HAVE READY ACCESS FOR THE OCCUPANT.

3. MI505.4.3.2 INTERMITTENT OFF OPERATION. WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH ADVANCED CONTROLS THAT ARE CONFIGURED TO OPERATE THE SYSTEM WITH INTERMITTENT OFF OPERATION SHALL OPERATE FOR A LEAST TWO HOURS IN EACH FOUR-HOUR SEGMENT. THE WHOLE-HOUSE VENTILATION AIRFLOW RATE DETERMINED IN ACCORDANCE WITH SECTION MI505.4.3 AS CORRECTED BY SECTION MI505.4.3.1 IS MULTIPLIED BY THE FACTOR DETERMINED IN ACCORDANCE WITH TABLE MI505.4.3.2

FACTORY-BUILT INTAKE/EXHAUST COMBINATION TERMINATIONS

PER 2021 IMC 401.4.3, ITEM 3, EXCEPTION, SEPARATION IS NOT REQUIRED BETWEEN INTAKE AIR OPENINGS AND LIVING SPACE RELIEF AIR EXHAUST AIR OPENINGS OF AN INDIVIDUAL DWELLING UNIT OR SLEEPING UNIT, NOT TO INCLUDE COMMON AREAS OUTSIDE OF THE DWELLING OR SLEEPING UNIT, JHERE A FACTORY-BUILT INTAKE/EXHAUST COMBINATION TERMINATION FITTING, LISTED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, IS USED TO SEPARATE THE AIR STREAMS. A MINIMUM OF 5 FEET HORIZONTAL SEPRATION BETWEEN OTHER ENVIRONMENTAL AIR EXHAUST OUTLETS ELECTRIC BASEBOARD HEATERS. AND OTHER DWELLING OR SLEEPING UNIT FACTORY-BUILT INTAKE/EXHAUST COMBINATION TERMINATION FITTINGS SHALL BE MAINTAINED.

WHOLE HOUSE VENTILATION REQUIREMENTS: EACH DWELLING UNIT OR SLEEPING UNIT SHALL BE EQUIPPED WITH A WHOLE-HOUSE MECHANICAL VENTILATION

BATHROOMS, TOILET ROOMS, AND KITCHENS SHALL INCLUDE A LOCAL EXHAUST SYSTEM. SUCH LOCAL EXHAUST SYSTEMS SHALL HAVE THE CAPACITY TO EXHAUST THE MINIMUM AIRFLOW RATE IN ACCORDANCE WITH TABLE MI505.4.4 FANS REQUIRED BY THIS SECTION SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE OR AUTOMATIC OCCUPANCY SENSOR, HUMIDITY SENSOR OR POLLUTANT SENSOR CONTROLS. AN "ON/OFF" SWITCH SHALL MEET THIS REQUIREMENT FOR MANUAL CONTROLS. MANUAL FAN CONTROLS SHALL BE READILY ACCESSIBLE IN THE ROOM SERVED BY THE FAN.

2021 IRC TABLE MI505.4.4

SYSTEM THAT COMPLIES WITH SECTIONS MID05.4.1 THROUGH MID05.4.4.

| | <u> </u> | |
|----------------------------|--------------|------------|
| AREA TO BE EXHAUSTED | INTERMITTENT | CONTINUOUS |
| KITCHENS | 100 CFM | 25 CFM |
| BATHROOMS- TOILET ROOMS | 50 CFM | 20 CFM |

BUILDING AIR LEAKAGE TESTING 2021 WSEC R402.4.1.2

TABLE MI505.4.3(1)

DWELLING UNIT

FLOOR AREA

(SQ. FT.)

501-1,000

1,001-1,500

1,501-2,000

2,501-3,000

3,001-3,500

3,501-4,000

4,001-4,500

4*500-5,000*

< 500

WHOLE-HOUSE MECHANICAL VENTILATION AIR FLOW RATE

NUMBER OF BEDROOMS

AIRFLOW IN CFM

30 | 30 | 35 | 45

30 35 40 50

30 | 40 | 45 | 55

35 | 45 | 50 | 60

40 | 50 | 55 | 65

45 | 55 | 60 | 70

50 | 60 | 65 | 75

55 | 65 | 70 | 80

60 | 70 | 75 | 85

| 65 | 75 | 80 | 90

0-1 2 3 4 5 OR MORE

50

60

65

7Ø

75

80

85

90

THE BUILDING OR DWELLING UNIT SHALL BE TESTED FOR AIR LEAKAGE. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH RESNET/ICC 380, ASTM E119, OR ASTM E1821. TEST PRESSURE AND LEAKAGE RATE SHALL COMPLY WITH SECTION R402.1.3. A WRITTEN REPORT OF THE TEST RESULTS, INCLUDING VERIFIED LOCATION AND TIME STAMP OF THE DATE OF THE TEST, SHALL BE SIGNED BY THE TESTING AGENCY AND PROVIDED TO THE BUILDING OWNER AND CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. ONCE VISUAL INSPECTION HAS CONFIRMED AIR SEALING HAS BEEN CONDUCTED IN ACCORDANCE WITH TABLE R402.4.1.1, OPERABLE WINDOWS AND DOORS MANUFACTURED BY SMALL BUSINESS ARE PERMITTED TO BE SEALED OFF AT THE FRAME PRIOR TO THE TEST, TESTING OF SINGLE-FAMILY DWELLINGS AND TOWNHOUSES SHALL BE CONDUCTED IN ACCORDANCE WITH RESNET/ICC 380. TEST PRESSURE AND LEAKAGE RATE SHALL COMPLY WITH SECTION R402.1.3.1.

POSTING OF CERTIFICATE

2021 WSEC R401.3 A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM, OR AN APPROVED LOCATION INSIDE THE BUILDING. WHEN LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL INDICATE THE FOLLOWING:

1. THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BELOWIGRADE WALL, AND/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES.

2. U-FACTORS FOR FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL INDICATE THE AREA WEIGHTED AVERAGE VALUE.

3. THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON

4. THE RESULTS FROM THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FLOW RATE TEST.

5. THE TYPES, SIZES AND EFFICIENCIES OF HEATING, COOLING, WHOLE-HOUSE MECHANICAL VENTILATION, AND SERVICE WATER HEATING APPLIANCES. WHERE A GAS-FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE, OR BASEBOARD ELECTRIC HEATER IS INSTALLED IN THE RESIDENCE, THE CERTIFICATE SHALL LIST "GAS-FIRED UNVENTED ROOM HEATER," "ELECTRIC FURNACE" OR "BASEBOARD ELECTRIC HEATER," AS APPROPRIATE. AN EFFICIENCY SHALL NOT BE LISTED FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES OR

6. WHERE ON-SITE PHOTOVOLTAIC PANEL SYSTEMS HAVE BEEN INSTALLED, THE ARRAY CAPACITY, INVERTER EFFICIENCY, PANEL TILT, ORIENTATION AND ESTIMATED ANNUAL ELECTRICAL GENERATION SHALL BE NOTED ON THE CERTIFICATE.

7. THE CODE EDITION UNDER WHICH THE STRUCTURE WAS PERMITTED, AND THE COMPLIANCE PATH USED.

THE CODE OFFICIAL MAY REQUIRE THAT DOCUMENTATION FOR ANY REQUIRED TEST RESULTS INCLUDE AN ELECTRONIC RECORD OF THE TIME, DATE AND LOCATION OF THE TEST. A DATE-STAMPED SMART PHONE PHOTO OR AIR LEAKAGE TESTING SOFTWARE MAY BE USED TO SATISFY THIS REQUIREMENT.

PROJECT # REVISION DATE:

11/06/2024

PROJECT #:

PLEASE REFER TO SHEET E-1 FOR ENERGY U-FACTOR COMPLIANCE PATH

2021 IRC R302.5 DWELLING-GARAGE OPENING AND PENETRATION PROTECTION. OPENINGS AND PENETRATIONS THROUGH THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE IN ACCORDANCE WITH SECTIONS R302.5.1 THROUGH R302.5.3.

2021 IRC R302.5.1 OPENING PROTECTION. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8 INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMB-CORE STEEL DOORS NOT LEGS THAN 1 3/8 INCHES (35 MM) THICK, OR 20-MINUTE FIRE-RATED DOORS. DOORS SHALL BE SELF-LATCHING AND EQUIPPED WITH A SELF-CLOSING OR AUTOMATIC-CLOSING DEVICE

2021 IRC R302.5.2 DUCT PENETRATIONS. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE (0.48 MM) SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL NOT HAVE OPENINGS INTO THE GARAGE.

2021 IRC R302.5.3 OTHER PENETRATIONS. PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4

2021 IRC R302.6 DWELLING-GARAGE FIRE SEPARATION. THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6 OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5 ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R702.3.5. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR THE THE ADJACENT DWELLING

2021 IRC R302.7 UNDER-STAIR PROTECTION. ENCLOSED SPACE UNDER STAIRS THAT IS ACCESSED BY A DOOR OR ACCESS PANEL SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2-INCH (12.7 MM) GYPSUM BOARD.

BUILDING AIR LEAKAGE TEST REQUIRED AS PER 2021 WSEC R4Ø2.4.1.2

<u>DUCTS</u> -DUCTS SHALL BE LEAK TESTED IN ACCORDANCE WITH WSU RS-33 PER 2021 WSEC R403.3.5 -DUCTS, AIR HANDLERS, FILTER BOXES SHALL BE SEALED AS PER MI601.4.1-R403.3.4 2021 WSEC

2021 IRC R311.3 FLOOR AND LANDINGS AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL BE NOT LESS THAN THE DOOR SERVED. LANDING SHALL HAVE A DIMENSION OF NOT LESS THAN 36" (914MM) MEASURED IN THE DIRECTION OF TRAVEL. THE SLOPE AT EXTERIOR LANDING SHALL NOT EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2 PERCENT)

2021 IRC R303.7 INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE TO ILLUMINATE THE LANDINGS AND TREADS. THE LIGHT SOURCE SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVEL OF NOT LESS THAN I FOOT-CANDLE (II LUX) AS MEASURED AT THE CENTER OF TREADS AND LANDINGS. THERE SHALL BE A WALL SWITCH AT EACH FLOOR LEVEL TO CONTROL THE LIGHT SOURCE WHERE THE STAIRWAY HAS SIX OR MORE

2021 IRC R 311.7.9 ILLUMINATION STAIRWAY SHALL BE PROVIDED WITH IN ACCORDANCE WITH SECTION R303.7 & R303.8

SMOKE DETECTORS

INSTALL SMOKE DETECTORS WHERE INDICATED ALL SMOKE DETECTOR RECEIVE THERE POWER FROM THE PRIMARY

AND INTERCONNECTED PER IRC R314.4 & R314.6

CARBON MONOXIDE ALARMS

IRC R315.6 POWER SOURCE. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING 15 SERVED FROM A COMMERCIAL SOURCE AND, WHERE PRIMARY POWER IS INTERRUPED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH, OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION.

EXCEPTIONS:

CARBON MONOXIDE ALARMS SHALL BE PERMITTED TO BE BATTERY OPERATED WHERE INSTALLED IN BUILDINGS WITHOUT COMMERCIAL POWER.

> WASHITNGTON STATE BUILDING CODE <u>TABLE M15Ø5.4.4.1</u> MINIMUM LOCAL EXHAUST RATES

| AREA TO BE | EXHAL | IST RATES | |
|------------------------------|---------|-----------------------------------|-------------------------------|
| EXHAUSTED | INTER | 1ITTENT | CONTINUOUS |
| OPEN KITCHEN | IN AC | CORDANCE WITH SECTION MI505.4.4.3 | NOT PERMITTED |
| ENCLOSED KITCHEN | IN AC | CORDANCE WITH SECTION MI505.4.4.3 | 5 ACH BASED ON KITCHEN VOLUME |
| BATHROOMS-TOILET ROOMS - | 50 CF | M | 20 CFM |
| <u>TABL</u> | .E M150 | <u>5.4.4.3</u> | |
| KITCHEN RANGE HOOD AIRFLOW | RATES | (CFM) AND ASTM E3087 CAPTURE | |
| EFFICIENCY (CE) RATINGS ACCO | PRDING | TO KITCHEN RANGE FUEL TYPE | |
| HOOD OVER ELECTRIC RANGE | | HOOD OVER COMBUSTION RANGE | |
| 65% CE OR 160 CFM | | 80% CE OR 250 CFM | |
| | | | |

VENTILATION RATE FOR WHOLE HOUSE FAN TO BE 35 CFM PER WSBC TABLE MI505.4.3(1) INDOOR AIR QUALITY HVAC CONTRACTOR TO SPECIFY LOCATION.

PRIVATE RESIDENTIAL GARAGES ATTACHED TO A DWELLING UNIT SHALL BE SEPARATED FROM THE DWELLING UNIT WITH ONE LAYER OF 5/8 INCH TYPE-X SHEETROCK ON THE GARAGE SIDE. THIS SHEETROCK SHALL BE CONTINUOUS FROM THE FOUNDATION TO ROOF SHEATHING, OR ON ALL WALLS AND CEILING OF THE GARAGE. WHEN A DWELLING UNIT IS LOCATED ABOVE A GARAGE, ALL WALLS AND CEILINGS OF THE GARAGE SHALL HAVE MINIMUM ONE LAYER OF 5/8 INCH TYPE-X SHEETROCK. WHEN FRAMING MEMBERS ARE MORE THAN 16" ON CENTER TWO LAYERS OF 5/8 INCH TYPE-X SHEETROCK SHALL BE REQUIRED. SHEETROCK SHALL BE NAILED AT SEVEN (1) INCHES ON CENTER, ON BOTH EDGE AND FIELD WITH 6D TWO (2) INCH NAILS. OPENINGS SUCH AS DOORS AND ATTIC ACCESSES SHALL BE 1-3/8 INCH SOLID CORE DOORS, OR A TWENTY (20)-MINUTE RATED ASSEMBLY AND SHALL BE SELF-CLOSING AND SELF-LATCHING. PENETRATIONS SHALL BE STEEL, FERROUS OR COPPER PIPES, OR STEEL CONDUIT, OR ONE-HOUR LISTED ASSEMBLIES. NO WINDOWS SHALL BE PERMITTED IN THE GARAGE/HOUSE WALL. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED.

7'-Ø"

3'-10"

5068 BI-PASS

__ 1'-5" CEILING

2650 CS 2650 S.H

10'-2"

7'-10"

3'-2"

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

5'-Ø"

BELOW

BLDG LINE BELOW

5'-Ø"

— 4'-Ø"

3'-11"

FOR SI: I INCH = 25.4 MM, I FOOT = 304.8 MM.

7'-Ø"

31'-Ø"

GREAT ROOM

5068 BI-PASS

EGRESS

2650 CS 2650 S.H

10'-6"

BEDROOM

12"-0"

2650 CS 2650 FX 2650 CS

2'-10"

2'-10"

TABLE 302.6 (2021 IRC)

2021 WSEC R404,2 INTERIOR LIGHTING CONTROLS, PERMANENTLY INSTALLED INTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED WITH EITHER A DIMMER, AN OCCUPANT SENSOR CONTROL OR OTHER CONTROL THAT IS INSTALLED OR BUILT INTO THE FIXTURE. EXCEPTION: LIGHTING CONTROLS SHALL NOT BE REQUIRED FOR THE FOLLOWING: 1. BATHROOMS. 2. HALLWAYS. 3. LIGHTING DESIGNED FOR SAFETY OR SECURITY.

BOXES). ELECTRICAL AND COMMUNICATION OUTLET BOXES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES, ELECTRICAL AND COMMUNICATION OUTLET BOXES SHALL BE TESTED IN ACCORDANCE WITH NEMA 05 4, REQUIREMENTS FOR AIR-SEALED BOXES FOR ELECTRICAL AND COMMUNICATION APPLICATIONS, AND SHALL HAVE AN AIR LEAKAGE RATE OF NOT GREATER THAN 2.0 CUBIC FEET PER MINUTE (0.944 L/S) AT A PRESSURE DIFFERENTIAL OF 1.51 PSF (15 PA). ELECTRICAL AND COMMUNICATION OUTLET BOXES SHALL BE MARKED "NEMA OS 4" OR "OS 4" IN ACCORDANCE WITH NEMA < 05 4. ELECTRICAL AND COMMUNICATION OUTLET BOXES SHALL BE INSTALLED! PER THE MANUFACTURER'S INSTRUCTIONS AND WITH ANY SUPPLIED COMPONENTS REQUIRED TO ACHIEVE COMPLIANCE WITH NEMA 05 4.

R402.4.4 ELECTRICAL AND COMMUNICATION OUTLET BOXES (AIR-SEALED

UPC 507.5 DRAINAGE PAN WHERE A WATER HEATER IS LOCATED IN AN ATTIC, IN OR , ON AN ATTIC-CEILING ASSEMBLY, FLOOR-CEILING ASSEM-BLY, OR FLOOR-SUBFLOOR ASSEMBLY WHERE DAMAGE RESULTS FROM A LEAKING WATER HEATER, A WATERTIGHT PAN OF CORROSION-RESISTANT MATERIALS SHALL BE INSTALLED BENEATH THE WATER HEATER WITH NOT LESS THAN 34 OF AN INCH (20 MM) DIAMETER DRAIN TO AN APPROVED LOCATION. SUCH PAN SHALL BE NOT LESS THAN 11/2 INCHES (38 MM) IN DEPTH. 507.6 ADDED OR CONVERTED EQUIPMENT OR APPLIANCES.

ALL TANK-TYPE WATER HEATERS IN UNCONDITIONED SPACES, OR ON > CONCRETE FLOORS IN CONDITIONED SPACES, SHALL BE PLACED ON AN INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10, AND A MINIMUM COMPRESSIVE STRENGTH OF 40 PSI OR ENGINEERED TO SUPPORT THE APPLIANCE. (WSEC R403.5.6).

31'-Ø" 21'-6" 9'-6" 11'-7" 4'-4" PLATFORM 18" AFF HANDLER STRAP TO WALL PER UPC 507.2 CONDITION 4" BOLLARD-PROVIDE PRESSURE RELIEF VALVE TO EXTERIOR AND GRADE INSTALL APPROVED EXPANSION TANK. SELF CLOSING-20 MIN. RATED DOOR PROVIDE - 41-C HEAT ALARMS. A HEAT ALARM SHALL BE PROVIDED IN THE ATTACHED GARAGE PER WASHINGTON STATE BUILDING CODE R314.2.1, R314.2.3 AND R314.4.1 ALARM TO BE 110V AND _____INTERCONNECTED. SELF CLOSING 20 MIN. RATED DOOR -16*0*80 OHD WRAP P.T. 6 x 6 POST TO 12" COLUMN W/CAP & BASE 4'-6" 4'-4" TRIM TYP. 26'-Ø" 5'-Ø" 31'*-0*"

UPPER FLOOR PLAN

3'-5"

^ಲSD

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SCALE: 1/4" =1'-0" - PROVIDE FIREBLOCKING AS REQUIRED (SEE NOTES ON SHEET 1)

5'-4"

- WINDOW HEADERS AT 6'-8" @ 7'-0" PLATE & 8'-0" HDR @ 9'-0" PLATE ABOVE SUB FLOOR, U.N.O.

3'-9"

31'-Ø"

- EXTERIOR WALLS TO BE 2X6 AT 16" O.C., U.N.O.
- INTERIOR PARTITIONS TO BE 2X4 AT 16" O.C. (2X6 @ PLUMBING WALLS) U.N.O.
- PROVIDE SUPPLEMENTAL JOISTS/BLOCKING BELOW SHEAR WALLS AS INDICATED ON FRAMING PLAN - PROVIDE SOLID FRAMING EQUAL TO THE WIDTH OF THE MEMBER BEING SUPPORTED (U.N.O.)

AREA SUMMARY EXISTING PRIMARY FOOTPRINT: 933 SF. EXISTING PRIMARY STRUCTURE: 889 SF. 85% HABITABLE LIVING AREA ALLOWABLE HABITABLE AREA MAIN FLOOR LIVING AREA: 95 UPPER FLOOR LIVING AREA: 652 SF. 747 756 SF. IS MAX ALLOWABLE LIVING AREA GARAGE: 616 FRONT PORCH: 50

MAIN FLOOR PLAN

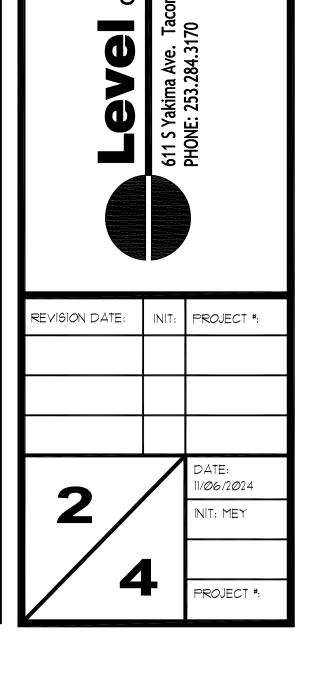
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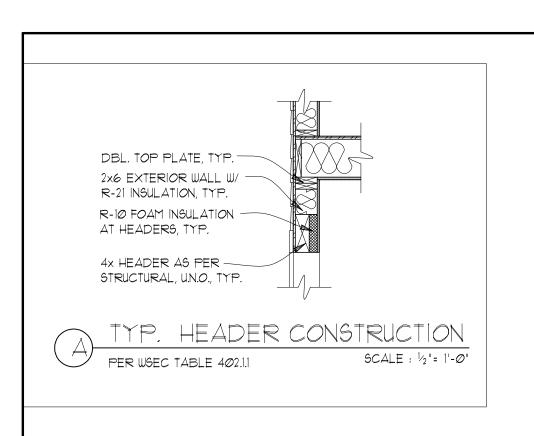
SCALE: 1/4" =1'-0"

- ALL DOOR/WINDOW HEADERS TO BE 4x10 DF#2 AT 2x6 BEARING WALLS , U.N.O., 6'-0" MAX. SPAN
- ALL DOOR/WINDOW HEADERS TO BE 4x10 DF#2 AT 2x4 BEARING WALLS, U.N.O., 6'-0" MAX. SPAN - WINDOW HEADERS AT 6'-8" @ 8'-0" PLATE & 8'-0" HDR @ 9'-0" PLATE ABOVE SUB FLOOR, U.N.O.
- PROVIDE FIREBLOCKING AS REQUIRED (SEE NOTES ON SHEET 1)
- EXTERIOR WALLS TO BE 2X6 AT 16" (MAX.) O.C. U.N.O.
- INTERIOR PARTITIONS TO BE 2×4 AT 16" O.C. (2×6 @ PLUMBING WALLS, U.N.O.)
- DUCTS THROUGH WALL OR CEILING COMMON TO HOUSE MIN. 26 GAGE STEEL
- NO DUCT OPENINGS IN GARAGE
- PROVIDE SOLID FRAMING EQUAL TO THE WIDTH OF THE MEMBER BEING SUPPORTED (U.N.O.)

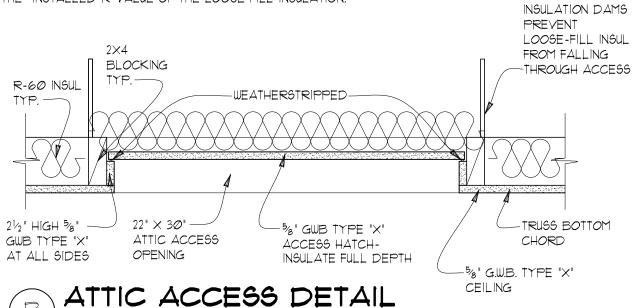
UPC 414.3 <u>DRAINAGE CONNECTION</u> DRAINAGE CONNECTION. DOMESTIC DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP FITTING IN ACCORDANCE WITH SECTION 801.3 INTO A WASTE RECEPTOR. A WYE BRANCH FITTING ON THE TAILPIECE OF A KITCHEN SINK, OR DISHWASHER I CONNECTION OF A FOOD WASTE DISPOSER. COMMERCIAL DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP OR DIRECT CONNECTION IN ACCORDANCE WITH SECTION 104.3 WITH FLOOR DRAIN PROTECTION.DRAINAGE CONNECTION. DOMESTIC DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP FITTING IN ACCORDANCE WITH SECTION 801.3 INTO A WASTE RECEPTOR, A WYE BRANCH FITTING ON THE TAILPIECE OF A KITCHEN SINK, OR DISHWASHER I CONNECTION OF A FOOD WASTE DISPOSER. COMMERCIAL DISHWASHING MACHINES SHALL DISCHARGE INDIRECTLY THROUGH AN AIR GAP OR DIRECT CONNECTION IN ACCORDANCE WITH SECTION 104.3 WITH FLOOR DRAIN PROTECTION.

PLEASE REFER TO SHEET E-1 FOR ENERGY U-FACTOR COMPLIANCE PATH





2021 WSEC R402.4.1 ACCESS HATCHES AND DOOR INSULATION INSTALLATION AND RETENTION. VERTICAL OR HORIZONTAL ACCESS HATCHES AND DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES SUCH AS ATTICS AND CRAWL SPACES SHALL BE WEATHERSTRIPPED. ACCESS THAT PREVENTS DAMAGING OR COMPRESSING THE INSULATION SHALL BE PROVIDED TO ALL EQUIPMENT. WHERE LOOSE FILL INSULATION IS INSTALLED, A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER, OR DAM SHALL BE INSTALLED TO PREVENT THE LOOSE-FILL INSULATION FROM SPILLING INTO THE LIVING SPACES, FROM HIGHER TO LOWER SECTIONS OF THE ATTIC AND FROM ATTICS COVERING CONDITIONED SPACES TO UNCONDITIONED SPACES. THE BAFFLE OR RETAINER SHALL PROVIDE A PERMANENT MEANS OF MAINTAINING



THE INSTALLED R-VALUE OF THE LOOSE FILL INSULATION.

SECTION

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TYPICAL ROOF CONSTRUCTION

R-60 INSULATION-

CONT. METAL GUTTER ON

SIDING PER ELEVATIONS

7/16" PLY OR OSB SHEATHING.

ON TYVEK WRAP ON

4" φ CONT. TIGHTLINE

TO STORM SEWER

4" Ø PERF. PLASTIC FTG. DRAIN SET IN WASHED GRAVEL

CONC. FTG. AS PER PLAN-

W/ FILTER FABRIC OVER

TOP PLATE

SUB FLOOR

TOP PLATE

SUB FLOOR

5/4 × 8 FASCIA BD. TYP.—

2 x 6 STUDS @ 16"o.c.

W/R-21 INSULATION -

- COMPOSITION ROOF SHINGLES
- 15# ROOFING FELT
- 7/16" SHEATHING RATED 24/16 - STRUCTURAL SYSTEM AS NOTED ON FRAMING PLAN

FLOOR JOISTS AS PER PLAN -

R-38 INSULATION -

4" CONC. SLAB OVER

MIL PLAS. VAP. BARRIER

- R-60 INSULATION
- 5/8" GWB. CEILING - 1/8" TO 1/4" MESH SCREEN OVER OPENINGS
- MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150
- OF VENTED AREA SPACE OR 1/300 IF 40-50% VENTING IN UPPER ATTIC OR RAFTER SPACE, PER IRC R806.2
- PROVIDE I" MINIMUM CLEARANCE BETWEEN INSULATION AND SHEATHING AT VENTS PER IRC SECTION R806.3

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

TYPICAL WALL CONSTRUCTION

COMPOSITION ROOFING ON 15 # FELT UNDERLAYMENT

ON 7/16" PLY OR OSB SHEATHING TYPICAL.

REQ'D RIGID-

INSULATION

AS SHOWN

MFR. SCISSOR TRUSSES @ 24" O.C.

AS PER MFG. SPECS. TYP.

GLUED & NAILED TYP!

GREAT

JAR GARAGI

<u>Porto de la comorcia de la comorcia porto de la comorcia del la comorcia de la comorcia del la comorcia de la </u>

- SIDING AND/OR VENEER PER ELEVATION

APPROX. GRADE

- 7/16" PLY OR OSB SHTG.(U.N.O)
- TYVEK BUILDING WRAP OR EQ.
- 2×6 STUDS @ 16" O.C. EXTERIOR WALLS U.N.O. EXTERIOR WALL NOTCH 25%, BORING 40% 60% BORING IF DOUBLED & NOT MORE THAN TWO SUCCESSIVE STUDS.
- 2x4 STUDS @ 16" O.C., INTERIOR PARTITIONS (2×6 @ PLUMBING WALLS) NON-BEARING WALL MAXIMUM NOTCH 40%, BORING 60%
- HOLES NO CLOSER THE 5/8 INCH TO FACE OF STUD - R-21 INSULATION WITH VAPOR BARRIER

TYPICAL FLOOR CONSTRUCTION

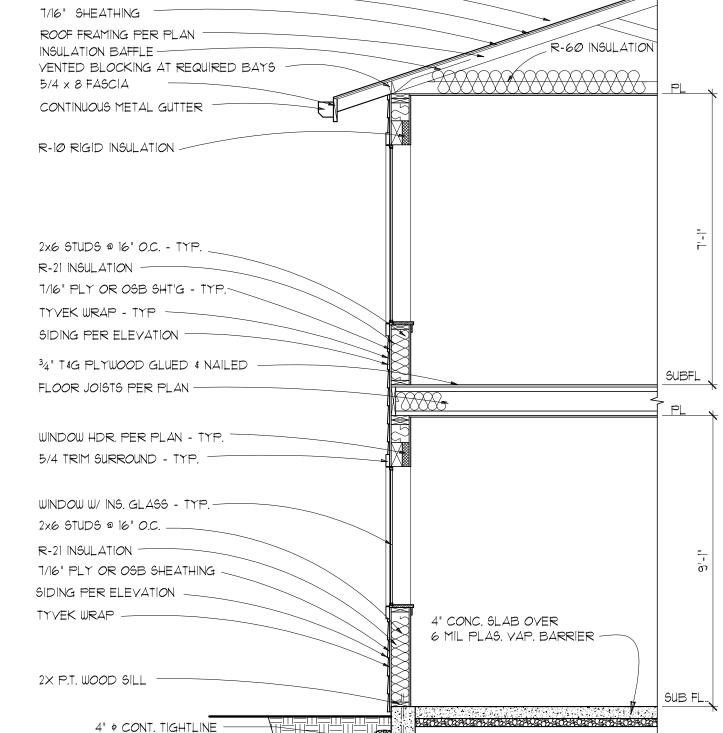
- 1/2" GWB. INTERIOR SHEATHING

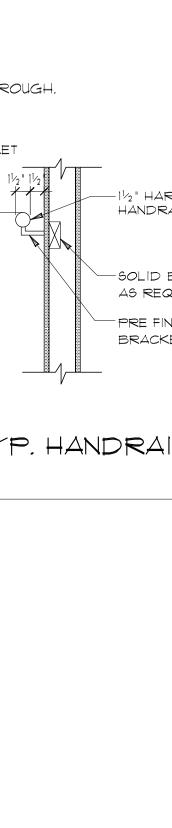
- FINISHED FLOOR PER PLANS
- 3/4" T&G PLYWOOD SUBFLOOR (GLUE AND NAIL)
- FLOOR JOISTS PER PLAN - R-38 INSULATION OVER UNHEATED AREAS

SEE NOTE ON SHEET

COMPOSITION ROOFING -

15# FELT PAPER





OPTION WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER III OF NEEA'S ADVANCED WATER HEATING SPECIFICATION EXPANSION — 2× STUDS @ 16" o/c ~~½" DRYWALL 2×4 CLEAT -½" DRYWALL - 1/2" DRYWALL -2x STUDS HEATER a 16" o/c ∠2x4 CLEAT SEISMIC STRAPPING PER -MANUFACTURERS SPECIFICATIONS (UPC SEC .501.2) L 2x4 CLEAT SECURE SHAPED 2x10 SPACER TO 2x4 CLEATS WITH (5)-16d NAILS SHAPED 2x10 SPACERS WILL BE CUT TO INSURE A TIGHT FIT TO WATER HEATER WATER HEATER STRAPS WILL RESIST LATERAL FORCES EQUAL TO 100% OF GRAVITY LOADING PLATFORM MUST BE ANCHORED TO WALL FINISHED FLOOR

TYPICAL WATER HEATER DETAIL

WSEC 2021 R403.5.3 HOT WATER PIPE INSULATION (PRESCRIPTIVE) INSULATION FOR HOT WATER PIPE, BOTH WITHIN AND OUTSIDE THE CONDITIONED SPACE, SHALL HAVE A MINIMUM THERMAL RESISTANCE (R-VALUE) OF R-3

2021 UPC 312.6 FREEZING PROTECTION. NO WATER, SOIL, OR WASTE PIPE SHALL BE INSTALLED OR PERMITTED OUTSIDE OF A BUILDING, IN ATTICS OR CRAWL SPACE, OR IN AN EXTERIOR WALL UNLESS, WHERE NECESSARY ADEQUATE PROVISION IS MADE TO PROTECT SUCH PIPE FROM FREEZING. ALL HOT AND COLD WATER PIPES INSTALLED OUTSIDE THE CONDITIONED SPACE SHALL BE INSULATED TO A MINIMUM R-3

TYPICAL WALL SECTION

4" ¢ PERF. PLASTIC FTG. DRAIN SET IN WASHED GRAVEL

W/ FILTER FABRIC OVER

NOTE: 1/16" SHEATHING NOT REQUIRED ON EXT. WALLS WHERE TI-11 SIDING IS SPECIFIED

REVISION DATE: PROJECT #: 11/06/2024 NIT: MEY SCALE : N.T.S.

PROJECT #:

SCALE: N.T.S. NOTE: THE HANDRAILS MUST HANDRAIL TO BE PRESENT ON RETURN TO WALL OR NEWELL ON AT LEAST ONE SIDE OF STAIR. HANDGRIP PORTION OF HANDRAILS SHALL HAVE CIRCULAR CROSS SECTION 4" SPHERE SHALL -OF 11/4" MIN. \$ 2" MAX. NOT PASS THROUGH ALL REQUIRED GUARDRAILS TO BE 36" OPENINGS FOR REQUIRED GUARDS ON -THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 43/8 INCHES (107mm) TO PASS THROUGH. ³⁄₄ " MIN.-1 1⁄₄ " MA× - SIMPSON LSC OR SIMULAR BRACKET -11/2" HARDWOOD HANDRAIL 6" SPHERE UNABLE -SOLID BLOCKING TO PASS THROUGH OPENING AS REQUIRED |BELOW STAIR INSTALL 1/2" -PRE FINISH METAL GWB @ CEILING, AND WALLS BRACKET TYP. $-(3)2\times12$ STRINGERS SIMPSON A35 -- FIRE BLOCKING @ MID-SPAN AND IN STUD WALLS ALONG AND IN LINE WITH STRINGERS IF AREA UNDER TYP, HANDRAIL STAIRS IS UNFINISHED -2×4 THRUST BLOCK INTERIOR/GUARDRAIL STAIR NOTES: - HANDRAILS MUST NOT PROJECT MORE THAN 4 $^{1}\!\!/_{2}$ " (114 MM) INTO THE STAIRWAY. IRC SECTIONS R311.7.8.2

- THE SPACING BETWEEN INTERMEDIATE HANDRAIL MEMBERS MUST NOT ALLOW A 4" SPHERE TO PASS THROUGH ANY OPENING. IRC SECTION R312.1.3 - MINIMUM STAIRWAY WIDTH ABOVE HANDRAIL SHALL BE NO LESS THAN 36 INCHES.

- STAIR & STAIR LANDING MINIMUM WIDTH SHALL BE NO LESS THAN 36" (311/2" CLEAR IF ONE HANDRAIL, & 27" CLEAR IF 2 HANDRAILS. IRC SECTION R311.7.1 THE TREADS LEADING EDGE CURVATURE CAN HAVE A MAX. RADIUS OF 9/16". THE MAX. BEVELING OF THE NOSING SHALL BE NO MORE THAN 1/2". IRC SECTION R311.7.5.3 - RISER OR TREAD MAXIMUM DIFFERENTIAL SHALL BE NO MORE THAN $^3\!\!\!/_{\!\!\!\!/}$ ". IRC SECTION R311.7.5.1

- NOSING IS NOT REQUIRED FOR STAIRS WITH TREADS GREATER THAN II". IRC SECTION R311.7.5.3

EXTERIOR STAIR NOTES: - EXTERIOR STAIR LIGHTING AT TOP LANDING WITH CONTROLS INSIDE THE DWELLING. IRC SECTION R303.8 - A MAXIMUM SLOPE OF 1:48 (2%) IS REQUIRED AT EXTERIOR LANDINGS AND TREADS

INTERIOR WINDER STAIR NOTES: - WINDER TREADS ARE REQUIRED TO HAVE A MINIMUM OF 6" DEPTH AT INNER EDGE. IRC SECTION R311.7.5.2.1

- WINDER TREAD DEPTH OF 10" WITH IN 12" OF THE INSIDE. IRC SECTION R311.7.5.2.1

LANDING NOTES:

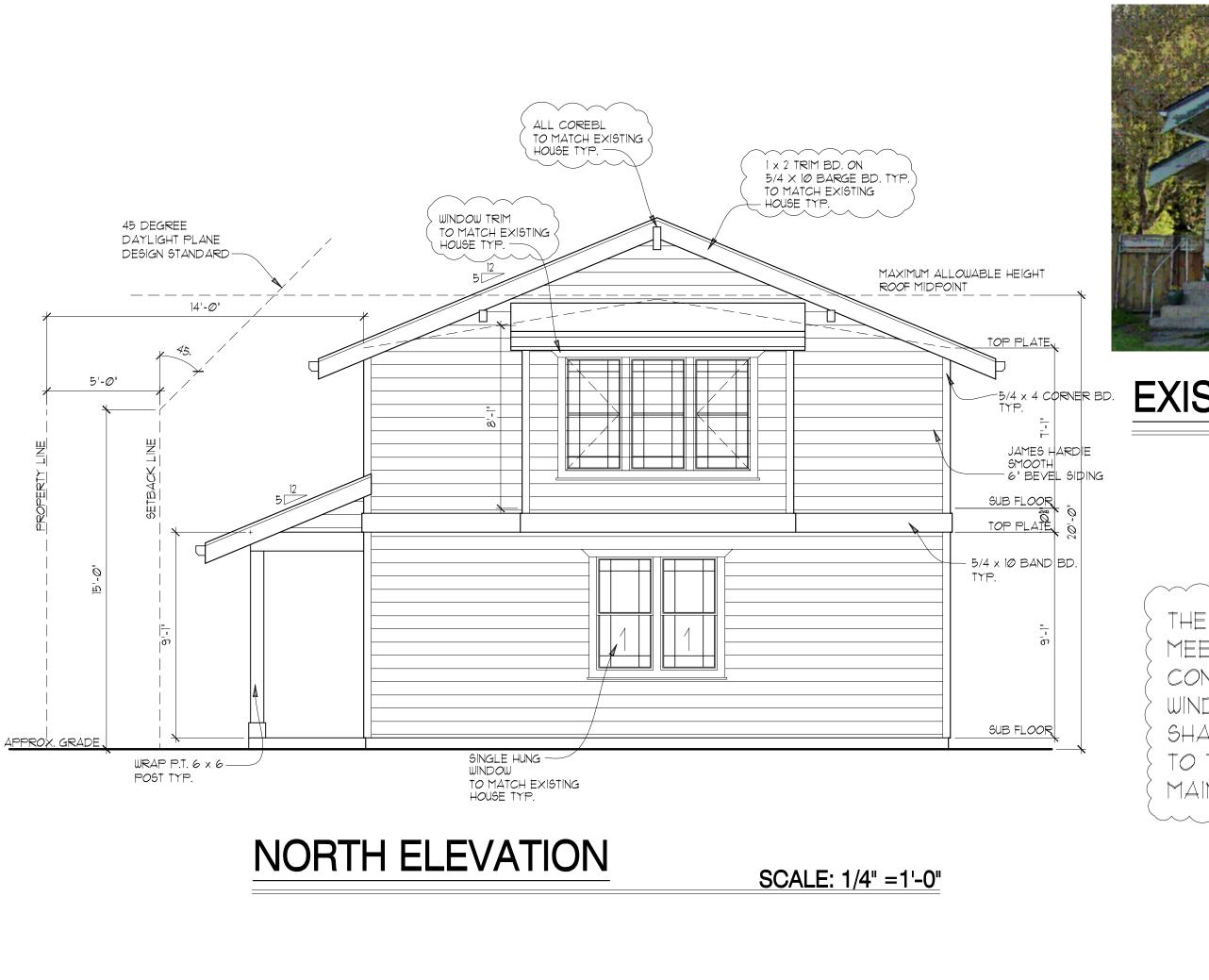
LANDING WIDTH SHALL NOT BE LESS THAN THAT OF STAIR SERVED RC R311.7.6 - LANDING SHALL NOT BE LESS THAN 36 INCHES IN DIRECTION OF TRAVEL RC R311.7.6

SCALE: N.T.S.

FOR DRAINAGE. IRC SECTION R311.3

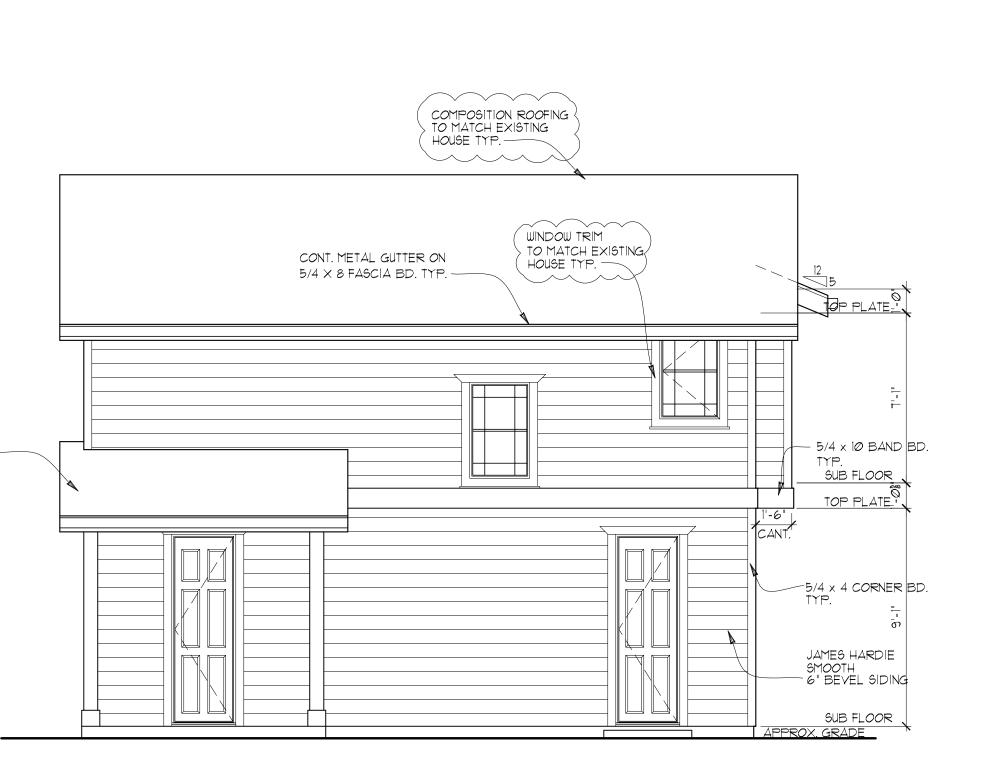
TO STORM SEWER

(UNLESS NOTED OTHERWISE IN THE SHEAR WALL SPECIFICATIONS)



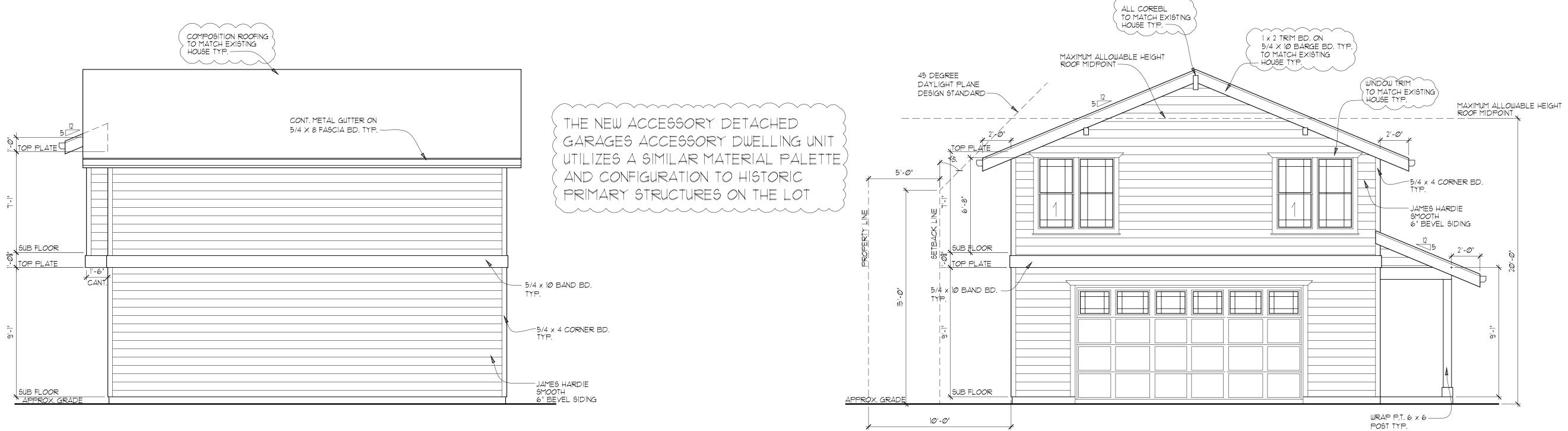
EXISTING FRONT FACADE

THE NEW ACCESSORY STRUCTURE MEETS THE GUIDELINES FOR NEW CONSTRUCTION EXTERIOR MATERIALS, WINDOWS AND ROOF FORM AND SHAPE. GARAGE DOOR IS ORIENTED TO THE ALLEY AND THE STRUCTURE MAINTAIN A SIMPLE ROOF PLAN



EAST ELEVATION

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



WEST ELEVATION

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

PROVIDE PREMISES IDENTIFICATION (ADDRESS NUMBERS) IN ACCORDANCE WITH IFC SECTION 505, NUMBERS SHALL BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET, NUMERALS SHALL BE PROVIDED (NOT SPELLED OUT). NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND AND HAVE A MINIMUM

HEIGHT OF 4 INCHES.

SOUTH ELEVATION

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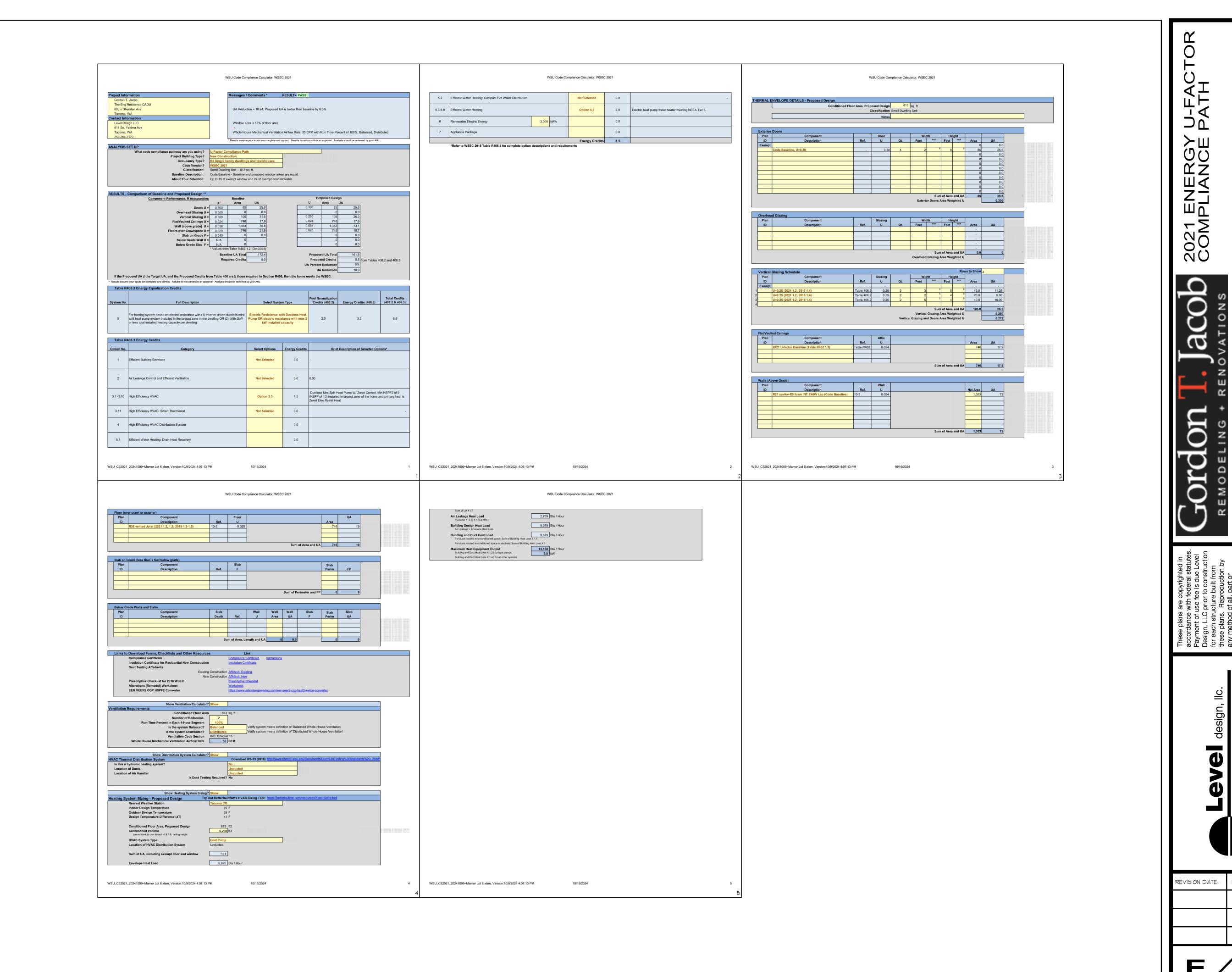
SCALE: 1/4" =1'-0"

- VERIFY SHEAR WALL NAILING AND HOLDOWNS ARE PER PLAN AND SCHEDULE PRIOR TO INSTALLING SIDING
- MASONRY AND WOOD FRAME CHIMNEYS ARE TO BE CONSTRUCTED PER I.R.C. PROVIDE GALVANIZED SHEET METAL FLASHING AND COUNTERFLASHING AT ALL
- ROOF / WALL INTERSECTIONS, CHIMNEYS, AND SKYLIGHTS
- PROVIDE WEATHERSTRIPPING AND FLASHING AT ALL DOORS AND WINDOWS AS REQUIRED
- CAULK ALL EXTERIOR JOINTS AND PENETRATIONS
- POST ADDRESS ON BLDG. PRIOR TO FINAL INSPECTION
- LOTS SHALL BE GRADED AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALL. SLOPE SHALL BE 6" IN FIRST 10 FT, OR DRAINS OR SWALES SHALL BE PROVIDED TO ENSURE DRAINAGE AWAY FROM STRUCTURE
- FASTENERS TO BE HOT-DIPPED GALV. STEEL, STAINLESS OR ALUM. (CORROSION RESISTANT)

NOTE: PROVIDE CONTINUOS PRE-PAINTED G.I. "Z" FLASHING AT ALL EXT. DOOR & WINDOW HEADERS.

REVISION DATE: PROJECT #: 11/06/2024

PROJECT #:



PROJECT #:

11/06/2024

PROJECT #:

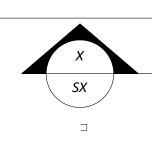
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DATE 11/4/2024 REVISED

SHEET NO. **S1.0**

SYMBOL LEGEND

SHEAR WALL LENGTH $\setminus WX$ SHEAR WALL TYPE HOLD DOWN/STRAP ✓ 2 STUDS # OF BUILT-UP STUDS

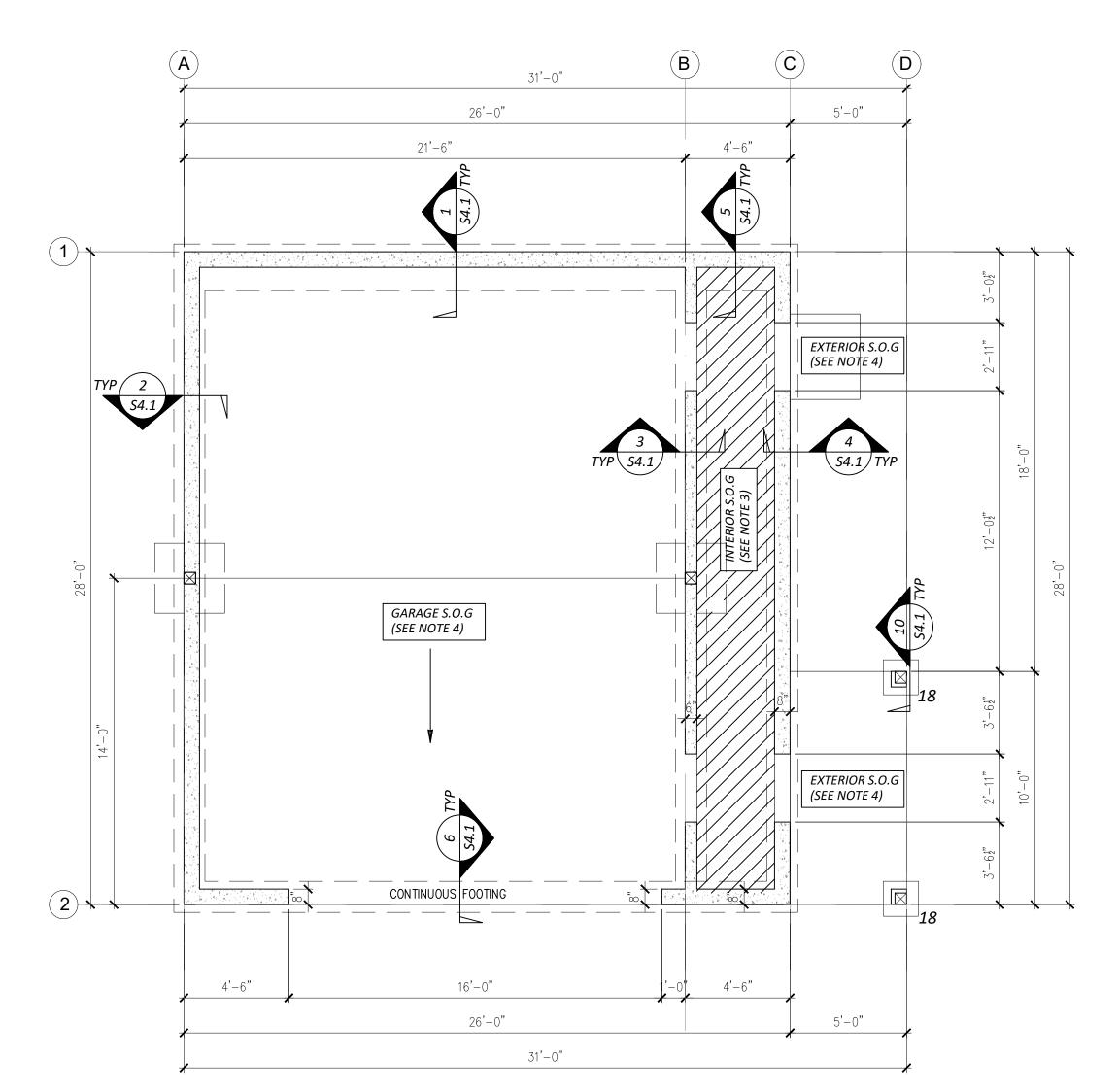


SECTION REFERENCE **HANGER** BEAM/HEADER

IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

ABBREVIATIONS

ABOVE FINISHED FLOOR A.F.F. **NOT TO SCALE** CLR. CLEARN.T.S. CENTERLINE O.C. ON CENTER CONC. CONCRETE PTPRESSURE TREATED REINF. CONT **CONTINUOUS** REINFORCEMENT SIMILAR C.J. CONTROL JOINT E.W. SQUARE FEET EACH WAY GLB S.O.G. SLAB ON GRADE GLULAM BEAM LBW LOAD BEARING WALL STL. STEEL HDT&G **HOLD DOWN** TONGUE AND GROOVE MFR. *MANUFACTURER* TYP.**TYPICAL** UNLESS NOTED OTHERWISE MIN. MINIMUM U.N.O. MTL. METAL W/ WITH N.T.S. NOT TO SCALE



FOUNDATION PLAN

1/4" = 1'-0"

NOTE.

- 1. SOIL BEARING OF 1,500 PSF IS ASSUMED. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE SITE SOILS PROVIDE THIS MINIMUM BEARING CAPACITY.
- 2. EXTERIOR FOOTINGS TO BE A MINIMUM OF 12" BELOW FINISHED GRADE BEARING ON NATIVE UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.
- 3. INTERIOR S.O.G. SHALL BE 4" THICK SLAB ON GRADE OVER INSULATION (PER ARCH.), OVER VAPOR BARRIER (PER ARCH.) OVER 4" COMPACTED SAND OR GRAVEL. OPTIONAL SLAB REINFORCEMENT SHALL BE 6X6 W2.9XW2.9 WELDED WIRE, #3 BARS @ 24" O.C., OR HELIX FABRIC (5# PER CUBIC YARD).
- 4. GARAGE S.O.G. SHALL BE 4" THICK SLAB ON GRADE OVER 4" COMPACTED FILL, SLOPED AT $\frac{3}{16}$ "/FT TOWARDS GARAGE DOOR.
- 5. EXTERIOR S.O.G. SHALL BE 4" THICK SLAB ON GRADE SLOPED $\frac{3}{16}$ "/FT AWAY FROM STRUCTURE.
- 6. PROVIDE COPY OF CONCRETE "BATCH TICKET" ON SITE FOR REVIEW BY BUILDING OFFICIAL
 7. SEE SHEAR WALL PLANS FOR SHEAR WALL ANCHOR BOLT AND HOLD DOWN LOCATIONS.

FOOTING SCHEDULE

| | POST ON 18" SQUARE X 8" THICK CONC. FOOTING |
|--|---|
| | POST ON 36" SQUARE X 8" THICK CONC. FOOTING W/ 4-#4 BARS E.W. |

NOT

- 1. USE MIN. 6" WIDE POST BELOW BEAM SPLICES
- 2. USE 4X4 POST BELOW 4X BEAMS, U.N.O. USE 6X6 POST BELOW 6X BEAMS, U.N.O.
- 4. PT POST SHALL BE USED IN EXTERIOR CONDITIONS

PIER OF WASHING 42816 AUGUSTOR ONAL

10

CHON PIERUCCIONI, PE

3128 N. BENNETT ST. TACOMA WA 98407

PIERUCCIONIENGINEERING@GMAIL.COM

SARAGE/DADU I SHERIDAN AVE TACOMA WA 984

DATE **11/4/2**

DATE **11/4/2024**REVISED

S3.1

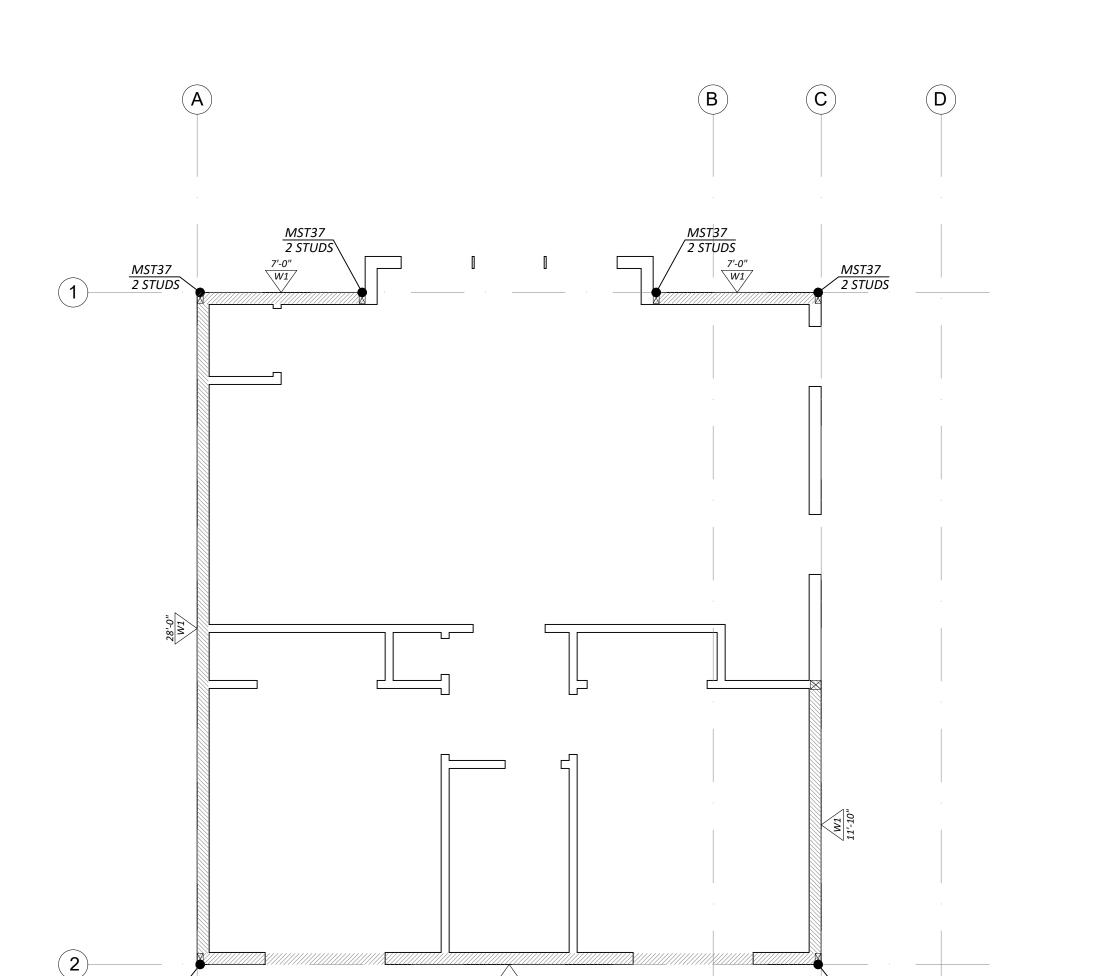
- 5. PROVIDE VENTED BLOCKING AT REQUIRED TRUSS/RAFTER BAYS
- 6. SHADED AREAS INDICATE OVERFRAMING. ROOF OVER FRAMING (IRC SECTION R802.3): RAFTERS SHALL BE FRAMED TO 2X RIDGE BOARD PER PLAN. RIDGE BOARD SHALL NOT BE LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A 2X VALLEY OR HIP RAFTER AND NOT
- LESS IN DEPTH THAN THE CUT END OR THE RAFTER. (FULL COVERAGE AT RIDGE, HIPS AND VALLEYS). 7. IF AN ENGINEERED ROOF FRAMING LAYOUT IS PROVIDED BY THE TRUSS SUPPLIER, THAT TRUSS LAYOUT SHALL SUPERCEDE THE TRUSS LAYOUT INDICATED IN THE PLANS.PROVIDE TRUSS LAYOUT AND SPECS ON SITE FOR INSPECTION.
- 8. PROVIDE SOLID FRAMING EQUAL TO THE WIDTH OF THE MEMBER BEING SUPPORTED (U.N.O.)
- 9. ALL MANUFACTURED TRUSSES:
- SHALL NOT BE FIELD ALTERED WITHOUT ENGINEER'S APPROVAL
- SHALL HAVE DESIGN DETAILS AND DRAWINGS ON SITE FOR FRAMING INSPECTION
- SHALL BE INSTALLED AND BRACED TO MANUFACTURER'S SPECIFICATION
- * SHALL CARRY MANUFACTURER'S STAMP ON EACH TRUSS

- CRIPPLE AND ONE STUD FOR EACH END FOR OPENINGS LESS THAN OR EQUAL TO 5'-0" WIDE AND TWO CRIPPLES AND ON KING STUD FOR ALL OTHERS.
- 5. FLOOR SHEATHING SHALL BE APA RATED $\frac{3}{4}$ " T&G (48/24) GLUED AND NAILED WITH 8d @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. FIELD. STAGGER END LAPS. NAILS SHALL EMBED $1\frac{1}{2}$ " MINIMUM INTO FLOOR JOIST.
- 6. STAIR STRINGERS SHALL ALL BE 2X12 DF #2 @ 16" O.C.
- PROVIDE FIREBLOCKING AS REQUIRED PER I.R.C.
- 8. EXTERIOR WALLS TO BE 2X6 AT 16" O.C., U.N.O.
- 9. INTERIOR PARTITIONS TO BE 2X4 AT 16" O.C. (2X6 @ PLUMBING WALLS) U.N.O.
- 10. FLOOR JOISTS AND BEAMS OF EQUAL OR BETTER CAPACITY MAY BE SUBSTITUTED FOR THOSE SHOWN ON THIS PLAN, "EQUAL" IS DEFINED AS HAVING MOMENT CAPACITY, SHEAR CAPACITY, AND STIFFNESS WITHIN 3% OF THE SPECIFIED JOISTS OR BEAMS.

- AND TWO CRIPPLES AND ON KING STUD FOR ALL OTHERS.
- 5. FLOOR SHEATHING SHALL BE APA RATED $\frac{3}{4}$ " T&G (48/24) GLUED AND NAILED WITH 8d @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. FIELD. STAGGER END LAPS. NAILS SHALL EMBED $1\frac{1}{2}$ " MINIMUM INTO FLOOR JOIST.
- 6. STAIR STRINGERS SHALL ALL BE 2X12 DF #2 @ 16" O.C.
- PROVIDE FIREBLOCKING AS REQUIRED PER I.R.C.
- EXTERIOR WALLS TO BE 2X6 AT 16" O.C., U.N.O.
- 9. INTERIOR PARTITIONS TO BE 2X4 AT 16" O.C. (2X6 @ PLUMBING WALLS) U.N.O.
- 10. FLOOR JOISTS AND BEAMS OF EQUAL OR BETTER CAPACITY MAY BE SUBSTITUTED FOR THOSE SHOWN ON THIS PLAN, "EQUAL" IS DEFINED AS HAVING MOMENT CAPACITY, SHEAR CAPACITY, AND STIFFNESS WITHIN 3% OF THE SPECIFIED JOISTS OR BEAMS.

9

SHEET NO.



UPPER FLOOR SHEAR WALL PLAN

1/4" = 1'-0"

1. UNLESS SPECIFIED ON PLANS, ALL EXTERIOR WALL SHALL BE SHEAR WALL W1, SEE SHEAR WALL TABLE ON THIS SHEET.

STRAP SCHEDULE

| 0 | | | | |
|---------|-----------------|------------------------------------|--------|--|
| SIMPSON | FASTE | NERS | END | |
| PRODUCT | SCREWS OR BOLTS | NAILS | LENGTH | |
| MST37 | | (22) 0.162" X 2 ½" INTO 2 STUDS | | |

HOLD DOWN SCHEDULE

| TOLD DOWN SCHLDOLL | | | |
|--------------------|---|--------|---|
| SIMPSON | FASTE | ANCHOR | |
| PRODUCT | SCREWS OR BOLTS | NAILS | BOLTS |
| HDU2-SDS2.5 | $(6)\frac{1}{4}$ " X $2\frac{1}{2}$ " SDS INTO POST PER PLAN | | SSTB16 (12 \frac{5}{8}" EMBED) |
| HDU5-SDS2.5 | $(14)\frac{1}{4}$ " X 2 $\frac{1}{2}$ " SDS INTO POST PER PLAN | | SB ⁵ / ₈ X24 (18" EMBED) |
| HDU8-SDS2.5 | $(20)\frac{1}{4}$ " \times $2\frac{1}{2}$ " SDS INTO POST PER PLAN | | SB ⁷ / ₈ X24 (18" EMBED) |

MAIN FLOOR SHEAR WALL PLAN

1/4" = 1'-0"

1. UNLESS SPECIFIED ON PLANS, ALL EXTERIOR WALL SHALL BE SHEAR WALL W1, SEE SHEAR WALL TABLE ON THIS SHEET.

SHEAR WALL AND ANCHOR TABLE

| WALL TYPE | APA RATED SHEATHING | MINIMUM NOMINAL THICKNESS | MINIMUM NAIL PENTRATION IN FRAMING (IN) | STUD & BLOCKING SIZE @ ADJOINING EDGES | REQUIRED RIM JOIST THICKNESS | EDGE NAIL SIZE AND SPACING, COMMON OR GALV. BOX | RIM JOIST OR BLOCK CONNECTION TO TOP PLATE | 2x BOTTOM PLATE ATTACHMENT TO WOOD BELOW | ANCHOR BOLT SILL PLATE ATTACHMENT TO CONCRETE BELOW | CAPACITY (PLF) SEISMIC/WIND |
|--------------|---------------------------|---------------------------------|---|--|------------------------------------|---|--|--|---|-----------------------------------|
| | (b), (c) | (IN) | (i) | (k) | | (d) | (e), (f) | (g), (i) | (h) | |
| W1 | OSB | 7/16 (j) | 1 3/8 | 2x | 2x OR 1 ½"LSL | 0.131" X 2 ½" @ 6" O.C. EDGE | LTP4 @ 20" O.C. OR A35 @ 16" O.C. | (1) 16d @ 8" O.C. | 5/8" @ 48" O.C. | 242/339 |
| W2 | OSB | 7/16 (j) | 1 3/8 | 2x | 2x OR 1 ½"LSL | 0.131" X 2 ½" @ 4" O.C. EDGE | LTP4 @14" O.C. OR A35 @ 11" O.C | (1) 16d @ 6" O.C. | 5/8" @ 36" O.C. | 353/495 |

(a) FRAMING AT ADJACENT PANELS SHALL BE 3" NOMINAL OR GREATER AND NAILS SHALL BE STAGGERED.

(b) WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDE ARE NOT LOCATED ON THE SAME STUDS.

(c) BLOCKING IS REQUIRED AT ALL PANEL EDGES

(d) PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY EXTERIOR OF THE BUILDING, CORRIDORS, WINDOW, OR DOORWAYS OR AS DESIGNATED ON THE PLANS. SEE PLANS FOR HOLD DOWN POSTS. SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD DOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLD DOWN POSTS.

(e) BASED ON 0.131X 1 ½" LONG NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131x 2 ½" NAILS WHERE INSTALLED OVER SHEATHING. USE A35 OR RBC CLIPS IN LIEU OF LTP'S FOR ROOF BLOCKING TO TOP PLATE.

(f) LTP4'S ARE NOT REQUIRED WHERE THE LOWER WALL SHEATHING IS OVERLAPPED ONTO THE RIM JOIST A MINIMUM OF $1\frac{1}{2}$ " AND NAILED TO THE RIM JOIST PER THE SHEAR WALL PERIMETER NAIL SPACING. LTP4'S MAY BE SUBSTITUTED W/ A35'S.

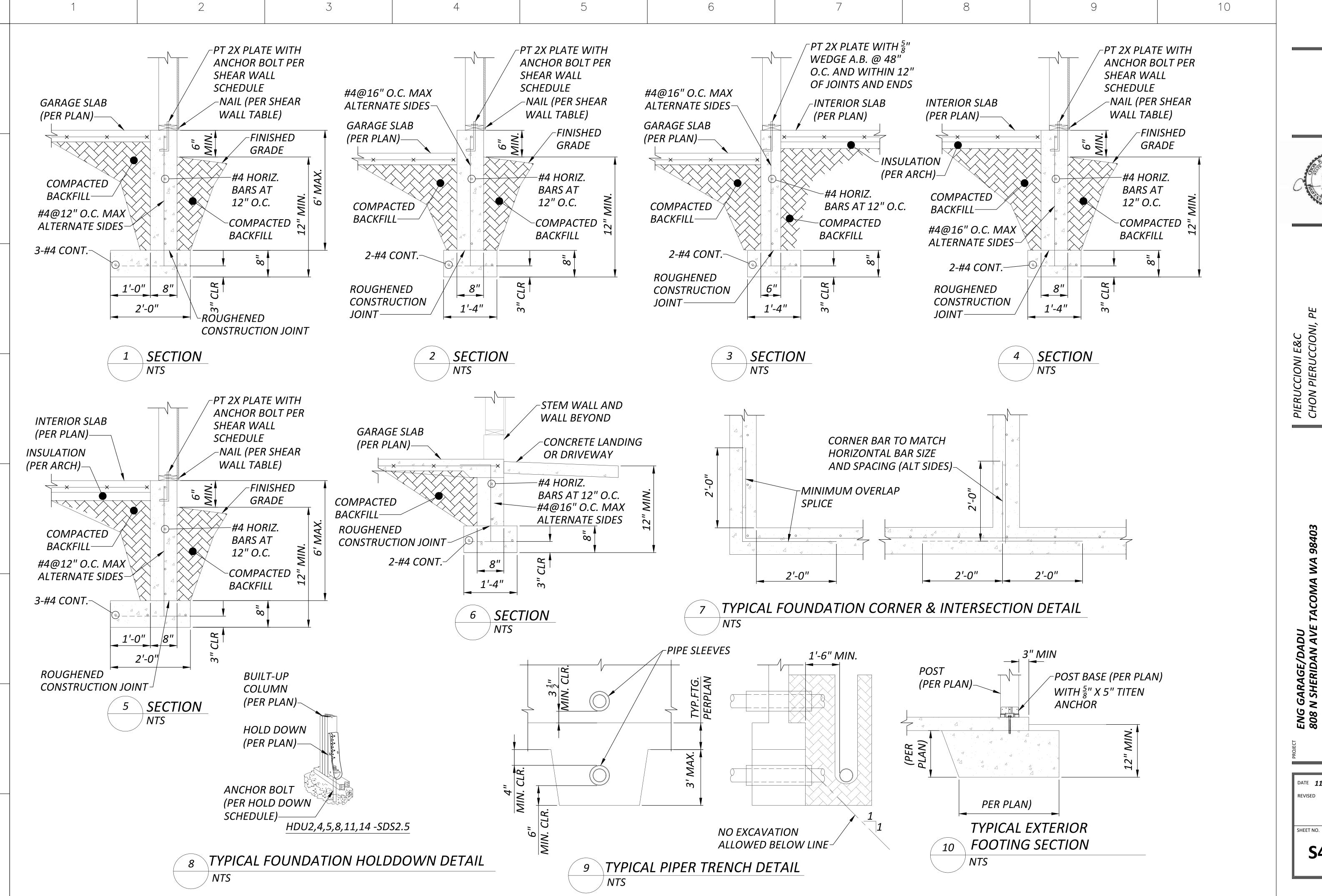
(g) CONTINUOUS SHEATHING IS REQUIRE OVER THE BOTTOM PLATE TO THE BOTTOM OF THE RIM JOIST OR SILL PLATE WITH EDGE NAILING AT EACH. WHERE TWO ROWS OF NAILING ARE REQUIRED AT RAISED FLOORS, PROVIDE BLOCKING PER PLAN, AND ATTACH WITH LTP4 PER SCHEDULE.

(h) ANCHOR BOLTS SHALL BE PROVIDED WITH STEEL PLATE WASHERS 0.229"x3"x3". EMBED ANCHOR BOLTS MINIMUM 7" INTO THE CONCRETE. PLATE WASHERS SHALL EXTEND TO WITHIN $\frac{1}{2}$ " OF THE SILL PLATE EDGE ON THE SHEATHED WALL FACE.

(i) PRESSURE TREATED MATERIALS CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTROPLATING IS NOT ACCEPTABLE) NAILS AND

CONNECTOR PLATES (FRAMING ANGLES, ETC.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. (j) ALL SHEAR WALL STUDS MUST BE SPACED NO MORE THAN 16" O.C.

(k) 3X MEMBERS MAY BE SUBSTITUTED WITH 2 STUDS NAILED TOGETHER PER TYPICAL BUILT-UP COLUMN DETAIL (SEE DETAILS).

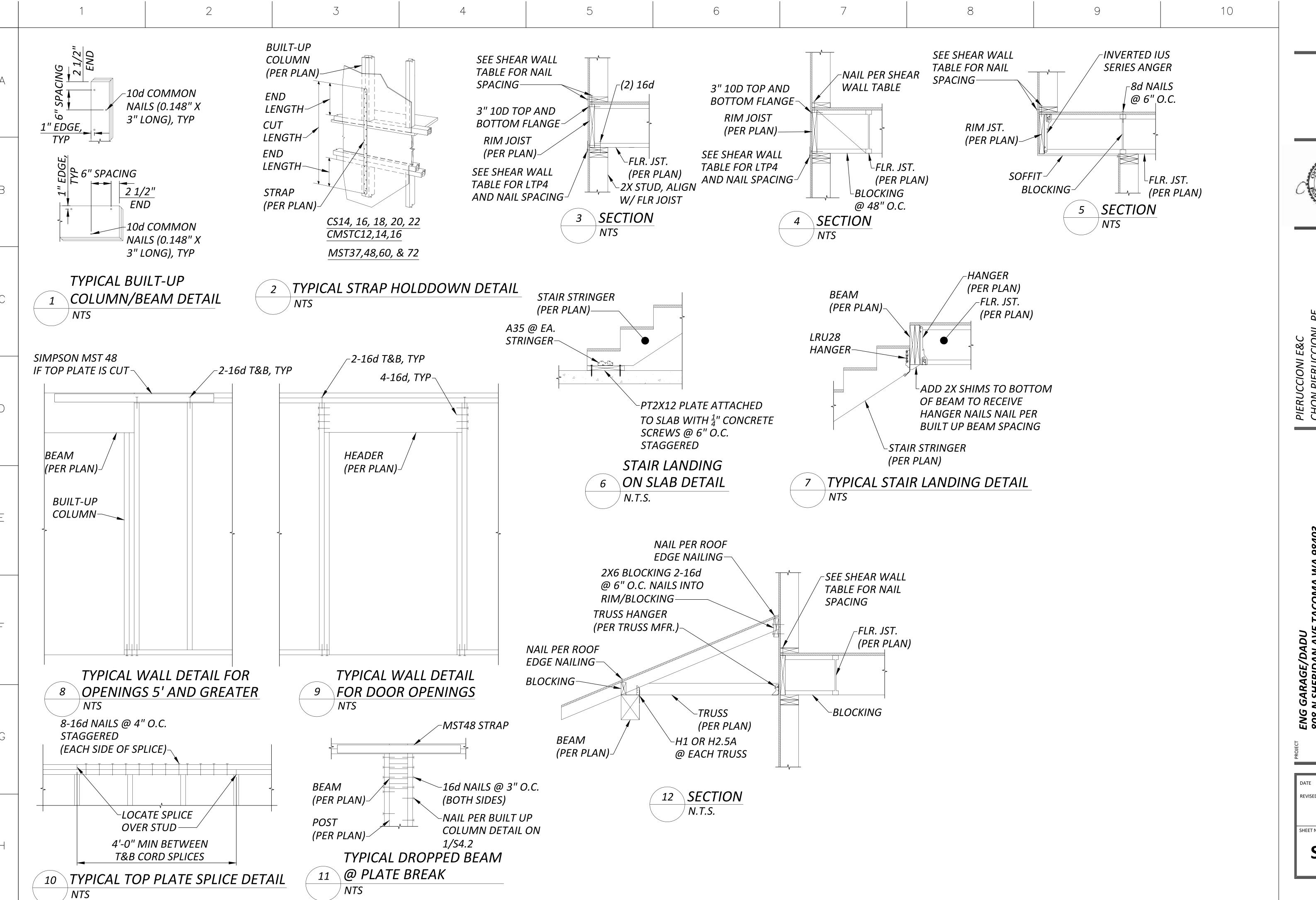


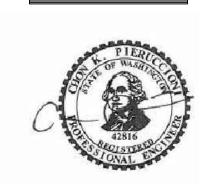


ENG GARAGE/DADU 808 N SHERIDAN AVE

DATE **11/4/2024**

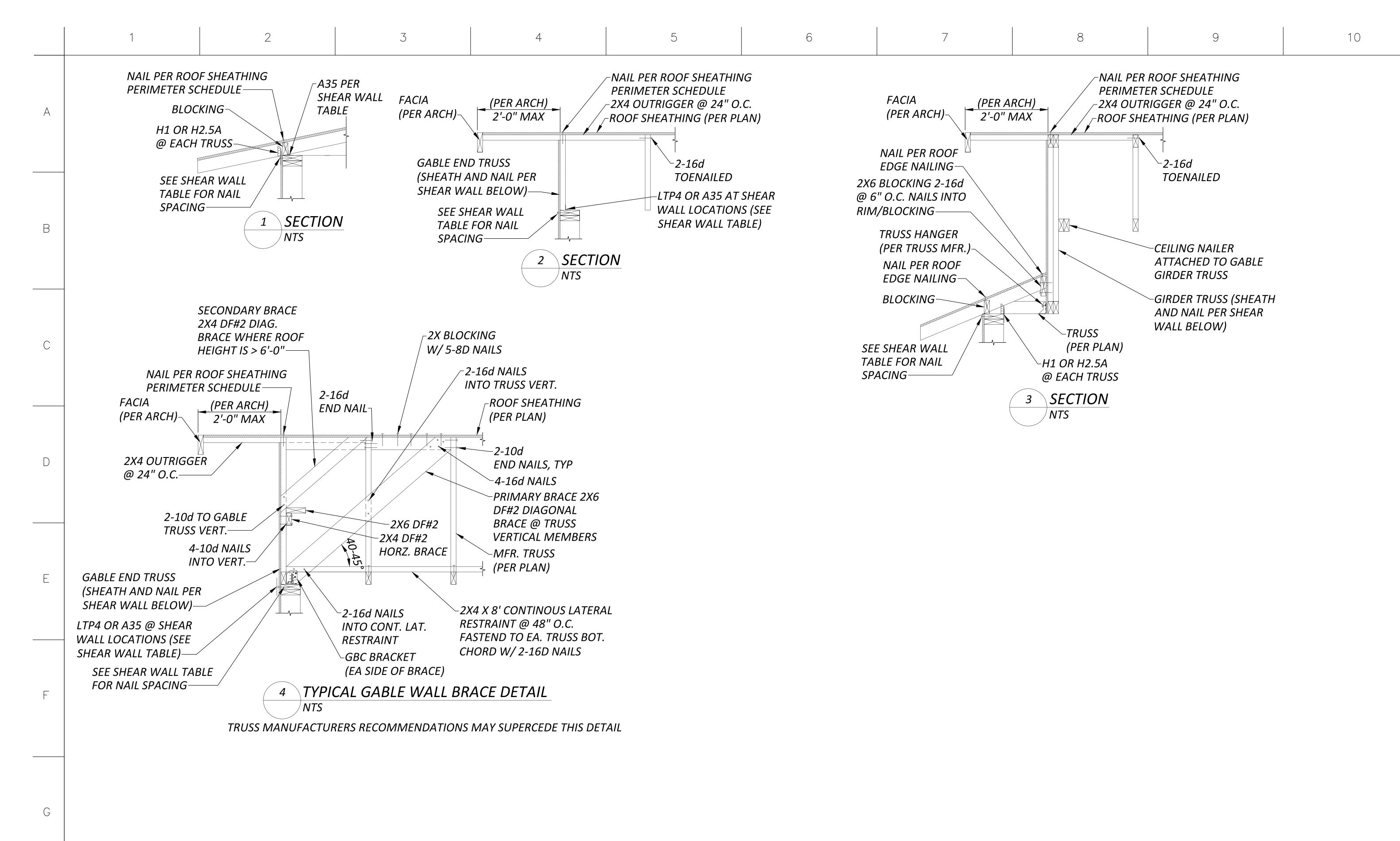
S4.1





DATE **11/4/2024**

S4.2





PIERUCCIONI E&C

CHON PIERUCCIONI, PE

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PIERUCCIONIENGINEERING@GMAIL.COM

G GARAGE/DADU S N SHERIDAN AVE TACOMA WA

AWING TITLE

DATE **11/4/2024**REVISED

S4.3



Gordon T Eng DADU

Number: 3113795 PO Number:

Total Lead Time: 8 weeks

Bill To: **Deliver To:**

> Quote Date: 2/10/2025 Printed: 02/10/25 6:26 PM

> > Price: \$16,998.41 \$0.00 Tax 1: Tax 2: \$0.00 Misc. Charges: \$0.00 **Total Price:**

\$16,998.41

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 24" x 26 1/2'

RATINGS

CPD Product WEA-N-319-Number: 00367-00002

U-Factor: 0.32

Solar Heat Gain

Coefficient 0.28

(SHGC): Visible

Transmittance 0.47

(VT):

FL #: FL38128.1

| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| Price: | \$1,494.53 | \$1,494.53 |

Unassigned Project

NUMBER: 3113795 LINE #: 100-1

QUANTITY: 1 LOCATION: Garage

- PRODUCT -

SIGNATURE SERIES, DOUBLE HUNG, TOP SASH STATIONARY, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, DOUBLE HUNG, 8122, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, TOP SASH STATIONARY UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER GLASS: NON EGRESS UNIT

- WINDOWSET DIMENSIONS -

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2"

VENTING FRAME PROPORTION = EVEN UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER

GLASS: GLASS WIDTH = 24' GLASS HEIGHT = 26 1/2"

- EXTERIOR OPTIONS -

ALUMINUM CLAD

ALUMINUM CLAD

AAMA 2605

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS -

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

JAMB LINER COLOR = WHITE VINYL

- GLASS OPTIONS

UNIT 1: INSULATED LOW E

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS -

SINGLE LOCK

SURFACE MOUNTED LIFT HANDLES (LOOSE)

ONE

WHITE

NO LIMIT STOPS

NO VENTING OPTIONS

STANDARD BALANCES TOP & BOTTOM

- SCREEN OPTION -

W/HALF SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

GRILLES

UNIT 1 GLASS 1: SDL W/GBG PRAIRIE

7/8"

COLONIAL

PINF

PREFINISHED WHITE

LRB UNIT 1 GLASS 2: SDL W/GBG

PRAIRIE

7/8" COLONIAL

PINE

PREFINISHED WHITE

IRT

- WRAPPING - EXTERIOR OPTIONS -

FRAME NAILING FIN = W/FRAME NAILING FIN
EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD
ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN
EXTERIOR TRIM LOCATION = STANDARD
SILL NOSE = 1" BULLNOSE W/END CAPS
EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS -

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG -STANDARD PACKAGING

STANDARD PACKAGING
NO CALIFORNIA WARNING LABEL
ESTIMATED UNIT WEIGHT = 75.80334
SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 24" x 26 1/2'

RATINGS

CPD Product WEA-N-319-Number: 00367-00002

U-Factor: 0.32

Solar Heat Gain

Coefficient 0.28

(SHGC): Visible

Transmittance 0.47

(VT):

FL #: FL38128.1

| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| Price: | \$1,494.53 | \$1,494.53 |

Unassigned Project

NUMBER: 3113795 LINE #: 200-1

QUANTITY: 1 LOCATION: Garage

- PRODUCT -

SIGNATURE SERIES, DOUBLE HUNG, TOP SASH STATIONARY, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, DOUBLE HUNG, 8122, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, TOP SASH STATIONARY UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER GLASS: NON EGRESS UNIT

- WINDOWSET DIMENSIONS -

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2"

VENTING FRAME PROPORTION = EVEN UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER

GLASS: GLASS WIDTH = 24' GLASS HEIGHT = 26 1/2"

- EXTERIOR OPTIONS -

ALUMINUM CLAD

ALUMINUM CLAD

AAMA 2605

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS -

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

JAMB LINER COLOR = WHITE VINYL

- GLASS OPTIONS

UNIT 1: INSULATED LOW E

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 UPPER SASH UPPER GLASS, 1 LOWER SASH LOWER GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS -

SINGLE LOCK

SURFACE MOUNTED

LIFT HANDLES (LOOSE)

ONE

WHITE

NO LIMIT STOPS

NO VENTING OPTIONS

STANDARD BALANCES TOP & BOTTOM

- SCREEN OPTION -W/HALF SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

GRILLES

UNIT 1 GLASS 1: SDL W/GBG PRAIRIE

7/8"

COLONIAL

PINE

PREFINISHED WHITE

LRB UNIT 1 GLASS 2: SDL W/GBG

PRAIRIE 7/8"

COLONIAL

PINE

PREFINISHED WHITE

IRT

- WRAPPING - EXTERIOR OPTIONS -

FRAME NAILING FIN = W/FRAME NAILING FIN
EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD
ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN
EXTERIOR TRIM LOCATION = STANDARD
SILL NOSE = 1" BULLNOSE W/END CAPS
EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS -

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG -STANDARD PACKAGING

STANDARD PACKAGING
NO CALIFORNIA WARNING LABEL
ESTIMATED UNIT WEIGHT = 75.80334
SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 25 3/8" x 55

3/8'

RATINGS

CPD Product WEA-N-320-Number: 00401-00001

U-Factor: 0.23

Solar Heat Gain

Coefficient 0.17

(SHGC):

Visible

Transmittance 0.34

(VT):

FL #: FL30918.3

ī

| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| | | |
| Price: | \$1,565.95 | \$1,565.95 |
| | | |

Unassigned Project

NUMBER: 3113795 LINE #: 300-1

QUANTITY: 1

LOCATION: Great Rm

- PRODUCT -

SIGNATURE SERIES, CASEMENT, RIGHT, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, RIGHT UNIT 1 GLASS: EGRESS UNIT

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8"

GLASS HEIGHT = 55 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS

JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS

W/STANDARD HARDWARE **DUAL ARM OPERATOR**

NESTED HANDLE

TRADITIONAL

WHITE

10" ADJUSTABLE HINGE

W/CONCEALED SNUBBER

NO LIMIT STOPS

NO VENTING OPTIONS

HANDLE/COVER/KIT SHIP SEPARATE

- SCREEN OPTION -

W/SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

- GRILLES

SDL W/GBG

PRAIRIE

7/8" COLONIAL

PINE

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD

ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

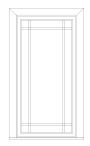
- WRAPPING - INTERIOR OPTIONS

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG -

STANDARD PACKAGING NO CALIFORNIA WARNING LABEL ESTIMATED UNIT WEIGHT = 83.65357 SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS **PACIFIC WINDOWS**



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 25 3/8" x 55

3/8"

RATINGS

CPD Product WEA-N-322-Number: 00552-00001

U-Factor: 0.21

Solar Heat Gain

Coefficient 0.19

(SHGC):

Visible

Transmittance 0.38

(VT):

FL #: FL30918.4

PER UNIT LINE TOTAL COST \$1,638.44 Price: \$1,638.44

Unassigned Project

NUMBER: 3113795

400-1 LINE #:

QUANTITY:

LOCATION: Great Rm

1

- PRODUCT -

SIGNATURE SERIES. CASEMENT PICTURE. 29 1/2" X 59 1/2"

COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8" GLASS HEIGHT = 55 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS FACTORY APPLIED

- INTERIOR OPTIONS -JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7 SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- GRILLES -

SDL W/GBG PRAIRIE

7/8"

COLONIAL

PINF

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD

ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS -

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG

STANDARD PACKAGING

NO CALIFORNIA WARNING LABEL ESTIMATED UNIT WEIGHT = 93.44357

SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 25 3/8" x 55

3/8'

0.34

RATINGS

CPD Product WEA-N-320-Number: 00401-00001

U-Factor: 0.23

Solar Heat Gain

Coefficient 0.17

(SHGC): Visible

Transmittance

(VT):

FL #: FL30918.3

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| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| | | |
| Price: | \$1,565.95 | \$1,565.95 |
| | | |

Unassigned Project

NUMBER: 3113795 LINE #: 500-1

QUANTITY:

LOCATION: Great Rm

1

- PRODUCT -

SIGNATURE SERIES, CASEMENT, LEFT, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, LEFT UNIT 1 GLASS: EGRESS UNIT

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8"

GLASS HEIGHT = 55 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD

ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS

W/STANDARD HARDWARE **DUAL ARM OPERATOR**

NESTED HANDLE

TRADITIONAL

WHITE

10" ADJUSTABLE HINGE

W/CONCEALED SNUBBER

NO LIMIT STOPS

NO VENTING OPTIONS

HANDLE/COVER/KIT SHIP SEPARATE

- SCREEN OPTION -

W/SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

- GRILLES

SDL W/GBG

PRAIRIE 7/8"

COLONIAL

PINE

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG - STANDARD PACKAGING NO CALIFORNIA WARNING LABEL
ESTIMATED UNIT WEIGHT = 83.65357
SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 51.8125"

R/O: 30" x 48"

JAMB: W29 1/2" x H47 1/2"

GLASS: 25 3/8" x 43

3/8'

RATINGS

CPD Product WEA-N-320-Number: 00401-00001

U-Factor: 0.23

Solar Heat Gain

Coefficient 0.17

(SHGC):

Visible

Transmittance 0.34

(VT):

FL #: FL30918.3

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| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| | | |
| Price: | \$1,495.60 | \$1,495.60 |
| | | |

Unassigned Project

NUMBER: 3113795 LINE #: 600-1

QUANTITY:

LOCATION: Top of stairs

1

- PRODUCT -

SIGNATURE SERIES, CASEMENT, LEFT, 29 1/2" X 47 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, LEFT UNIT 1 GLASS: EGRESS UNIT

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 47 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8"

GLASS HEIGHT = 43 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD

ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS

JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

TEMPERED GLASS

- HARDWARE OPTIONS

W/STANDARD HARDWARE

DUAL ARM OPERATOR

NESTED HANDLE TRADITIONAL

WHITE

10" ADJUSTABLE HINGE

W/CONCEALED SNUBBER

NO LIMIT STOPS

NO VENTING OPTIONS

HANDLE/COVER/KIT SHIP SEPARATE

- SCREEN OPTION -

W/SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

- GRILLES

SDL W/GBG

PRAIRIE

7/8" COLONIAL

PINE

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG -

STANDARD PACKAGING NO CALIFORNIA WARNING LABEL ESTIMATED UNIT WEIGHT = 68.73145 SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS **PACIFIC WINDOWS**



(Viewed from Exterior)

SIZING

CASING: 36.125" x 51.8125"

R/O: 30" x 48"

JAMB: W29 1/2" x H47 1/2"

GLASS: 25 3/8" x 43

3/8"

RATINGS

CPD Product WEA-N-322-Number: 00552-00001

U-Factor: 0.21

Solar Heat Gain

0.19 Coefficient

(SHGC):

Visible

Transmittance 0.38

(VT):

FL #: FL30918.4

| PER UNIT | LINE TOTAL |
|------------|------------|
| | |
| | |
| \$1,479.61 | \$1,479.61 |
| | |

Unassigned Project

NUMBER: 3113795

700-1 LINE #:

QUANTITY: 1 LOCATION: Stairswell

- PRODUCT -

SIGNATURE SERIES. CASEMENT PICTURE. 29 1/2" X 47 1/2"

COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS -

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 47 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8" GLASS HEIGHT = 43 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS FACTORY APPLIED

- INTERIOR OPTIONS -

JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED INTERIOR SAW KERF = NO INTERIOR SAW KERF INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

TEMPERED GLASS

- GRILLES -

SDL W/GBG

PRAIRIE 7/8"

COLONIAL

PINF

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS -

INTERIOR TRIM = NO INTERIOR TRIM

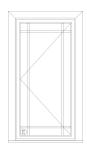
- WRAPPING - MISC. PKG -

STANDARD PACKAGING

NO CALIFORNIA WARNING LABEL ESTIMATED UNIT WEIGHT = 77.20145

SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 25 3/8" x 55

3/8"

RATINGS

CPD Product WEA-N-320-Number: 00401-00001

U-Factor: 0.23

Solar Heat Gain

Coefficient 0.17

(SHGC):

Visible

Transmittance 0.34

(VT):

FL #: FL30918.3

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| COST | PER UNIT LINE TOTAL | |
|--------|---------------------|------------|
| | | |
| | | |
| | | |
| Price: | \$1,565.95 | \$3,131.90 |
| | | |

Unassigned Project

NUMBER: 3113795 LINE #: 800-1

QUANTITY: 2

LOCATION: Bedrooms

- PRODUCT -

SIGNATURE SERIES, CASEMENT, LEFT, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, LEFT UNIT 1 GLASS: EGRESS UNIT

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS -

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8"

GLASS HEIGHT = 55 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD ALUMINUM CLAD

ALUMINUM CL

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS -

JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS -

W/STANDARD HARDWARE DUAL ARM OPERATOR

NESTED HANDLE

TRADITIONAL

WHITE

10" ADJUSTABLE HINGE

W/CONCEALED SNUBBER

NO LIMIT STOPS

NO VENTING OPTIONS

HANDLE/COVER/KIT SHIP SEPARATE

- SCREEN OPTION -

W/SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

- GRILLES

SDL W/GBG

PRAIRIE 7/8"

COLONIAL

COLO

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS -

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD

ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG - STANDARD PACKAGING NO CALIFORNIA WARNING LABEL
ESTIMATED UNIT WEIGHT = 83.65357
SAMPLE = STANDARD UNIT

WEATHERSHIELD WINDOWS & DOORS PACIFIC WINDOWS



(Viewed from Exterior)

SIZING

CASING: 36.125" x 63.8125"

R/O: 30" x 60"

JAMB: W29 1/2" x H59 1/2"

GLASS: 25 3/8" x 55

3/8'

0.34

RATINGS

CPD Product WEA-N-320-Number: 00401-00001

U-Factor: 0.23

Solar Heat Gain

Coefficient 0.17

(SHGC):

Visible Transmittance

(VT):

FL #: FL30918.3

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| COST | PER UNIT | LINE TOTAL |
|--------|------------|------------|
| | | |
| | | |
| | | |
| Price: | \$1,565.95 | \$3,131.90 |
| | | |

Unassigned Project

NUMBER: 3113795 LINE #: 900-1

QUANTITY:

LOCATION: **Bedrooms**

2

- PRODUCT -

SIGNATURE SERIES, CASEMENT, RIGHT, 29 1/2" X 59 1/2"

UNIT 1: COMPLETE UNIT, 4/2/2018 TO PRESENT, CASEMENT/AWNING, 8219, CERTIFIED DESIGN PRESSURE REQUIRED, REQUIRED DESIGN PRESSURE = DP 25, RIGHT UNIT 1 GLASS: EGRESS UNIT

- WINDOWSET DIMENSIONS

MEASUREMENT TYPE = ROUGH OPENING

- DIMENSIONS

UNIT 1: FRAME WIDTH = 29 1/2"

FRAME HEIGHT = 59 1/2" UNIT 1 GLASS: GLASS WIDTH = 25 3/8"

GLASS HEIGHT = 55 3/8"

- EXTERIOR OPTIONS -

ALUMINUM CLAD

ALUMINUM CLAD

AAMA 2605

SASH PROFILE = PUTTY

EXTERIOR COLOR FRAME MATCH = ALL EXTERIOR COLORS MATCH

WHITE

EXTERIOR SASH WEATHERSTRIP COLOR = W/WHITE SASH WEATHERSTRIP

5 1/2" INSTALLATION CLIPS

FACTORY APPLIED

- INTERIOR OPTIONS

JAMB TYPE = STANDARD JAMB

5 1/4

JAMB EXTENSION APPLICATION = FACTORY APPLIED

INTERIOR SAW KERF = NO INTERIOR SAW KERF

INTERIOR FRAME MATCH = ALL INTERIORS MATCH

INTERIOR MATERIAL = PINE

INTERIOR FINISH STAIN/SEAL = PREFINISHED WHITE

- GLASS OPTIONS

UNIT 1: ZO-E SHIELD 7

SILVER SPACER

W/OUT NEAT CLEAN GLASS

COLONIAL

BACK SIDE GLZG BD MATCH INTERIOR FINISH

NO SPECIALTY GLASS

NO CAPILLARY TUBES

W/ARGON GAS UNIT 1 GLASS: W/PRESERVE PROTECTIVE FILM

NON TEMPERED GLASS

- HARDWARE OPTIONS

W/STANDARD HARDWARE **DUAL ARM OPERATOR**

NESTED HANDLE

TRADITIONAL

WHITE

10" ADJUSTABLE HINGE

W/CONCEALED SNUBBER

NO LIMIT STOPS

NO VENTING OPTIONS

HANDLE/COVER/KIT SHIP SEPARATE

- SCREEN OPTION -

W/SCREEN

FIBERGLASS SCREEN MESH

WHITE

FACTORY APPLIED

- GRILLES

SDL W/GBG

PRAIRIE 7/8"

COLONIAL

PINE

PREFINISHED WHITE

LRTB

- WRAPPING - EXTERIOR OPTIONS

FRAME NAILING FIN = W/FRAME NAILING FIN

EXTERIOR TRIM OPTIONS = 3-5/16" HISTORICAL BRICKMOULD

ALUMINUM TRIM NAIL FIN = W/ALUM TRIM NAIL FIN

EXTERIOR TRIM LOCATION = STANDARD

SILL NOSE = 1" BULLNOSE W/END CAPS

EXTERIOR TRIM APPLICATION = FACTORY APPLIED

- WRAPPING - INTERIOR OPTIONS

INTERIOR TRIM = NO INTERIOR TRIM

- WRAPPING - MISC. PKG - STANDARD PACKAGING NO CALIFORNIA WARNING LABEL ESTIMATED UNIT WEIGHT = 83.65357 SAMPLE = STANDARD UNIT

Thank you for choosing Weather Shield Windows & Doors



Pacific Windows LLC 3003 S Huson St Ste B Tacoma, WA 98409-2311 www.pacwindows.com



\$1,419.12

\$1,419.12

Quote Name: GTJ Eng DADU

Customer: 0200

Payment Terms:

Sales Representative: Jason Cantley Mobile:

jason@pacwindows.com

Weighted Average: U-Factor: .26, SHGC: .26, VT: .48

Comments:

Quote Number: SQPHYR001068_1

Created Date: 2/10/2025 **Modified Date:** 2/10/2025

PO Number:

Total Windows: 11

Total Doors:

Total Sq Ft: 145.00 Total Perim Ft: 170

Est. Delivery:

For warranty information please visit www.milgard.com/warranty/

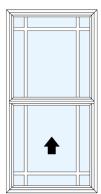
Line: 1 Location: Garage

Quantity: 1 C650 Ultra, 3210U, SH, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .30, SHGC: .26, VT: .49

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



Model = Single Hung
Size = RO: 30" x 60"
Line Total:

Net Frame: 29 1/2" x 59 1/2" Dimensions = Sash Height: One Half

Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) over 1/8" Clear with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame

Hardware = White, Cam Lock

Screen = Standard with Fiberglass Mesh Ratings = STC: 28, OITC: 22, PG: LC-PG30

Clear Opening = W 27 5/16" x H 26 1/8" Sq. Ft. 4.96

Calculations = Unit Area (Sq. Ft.): 13, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-157-04709-00002

Viewed From Exterior Customer Approval:

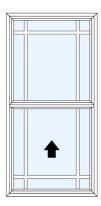
Line: 2 Location: Garage

Quantity: 1 C650 Ultra, 3210U, SH, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .30, SHGC: .26, VT: .49

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Single Hung
 Item Total:
 \$1,419.12

 Size = RO: 30" x 60"
 Line Total:
 \$1,419.12

Net Frame: 29 1/2" x 59 1/2" Dimensions = Sash Height: One Half Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) over 1/8" Clear with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame

Hardware = White, Cam Lock

Screen = Standard with Fiberglass Mesh Ratings = STC: 28, OITC: 22, PG: LC-PG30

Clear Opening = W 27 5/16" x H 26 1/8" Sq. Ft. 4.96

Calculations = Unit Area (Sq. Ft.): 13, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-157-04709-00002

Viewed From Exterior Customer Approval:

Quote Number: SQPHYR001068_1 Print Date: 2/10/2025 Page 1 of 5

Line: 3 Location: Great Rm

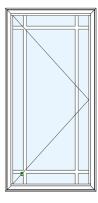
Quantity: 1 C650 Ultra, 3510U, FC, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .26, SHGC: .25, VT: .45

1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Casement
 Item Total:
 \$1,317.87

 Size = RO: 30" x 60"
 Line Total:
 \$1,317.87

Net Frame: 29 1/2" x 59 1/2"

Handing = Right

Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame Hardware = White, Nesting Fold Down Roto/Stainless Steel Operator Handle

Screen = Standard with Fiberglass Mesh and White Finish

Ratings = STC: 28, OITC: 23, PG: LC-PG35

Clear Opening = W 20 1/2" x H 55 1/4" Sq. Ft. 7.87, Egress: Yes

Calculations = Unit Area (Sq. Ft.): 13, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-167-12391-00002

Viewed From Exterior

Customer Approval: _____

Line: 4 Location: Great Rm

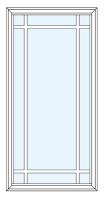
Quantity: 1 C650 Ultra, 3310U, PW, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .24, SHGC: .27, VT: .51

1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Picture
 Item Total:
 \$1,170.12

 Size = RO: 30" x 60"
 Line Total:
 \$1,170.12

 Net Frame: 29 1/2" x 59 1/2"
 \$1,170.12

Energy Star Zone(s) = North Central

Glass = 1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame

Ratings = STC: 28, OITC: 24, PG: CW-PG40

Calculations = Unit Area (Sq. Ft.): 13, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-150-04737-00002

Viewed From Exterior

Customer Approval: _____

 Quote Number:
 SQPHYR001068_1
 Print Date:
 2/10/2025
 Page 2 of 5

Line: 5 Location: Great Rm

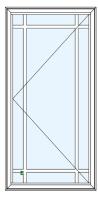
Quantity: 1 C650 Ultra, 3510U, FC, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .26, SHGC: .25, VT: .45

1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Casement
 Item Total:
 \$1,317.87

 Size = RO: 30" x 60"
 Line Total:
 \$1,317.87

Net Frame: 29 1/2" x 59 1/2"

Handing = Left

Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame Hardware = White, Nesting Fold Down Roto/Stainless Steel Operator Handle

Screen = Standard with Fiberglass Mesh and White Finish

Ratings = STC: 28, OITC: 23, PG: LC-PG35

Clear Opening = W 20 1/2" x H 55 1/4" Sq. Ft. 7.87, Egress: Yes

Calculations = Unit Area (Sq. Ft.): 13, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-167-12391-00002

Viewed From Exterior

Customer Approval: _____

Item Total:

Line Total:

\$1,361.37

\$1,361.37

Line: 6 **Location:** Top of Stairs

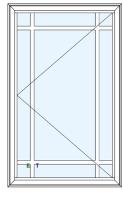
Quantity: 1 C650 Ultra, 3510U, FC, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .26, SHGC: .25, VT: .45

1/8" SunCoat (Low-E) Tempered over 1/8" 4th Surface HP Coating Tempered

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



Model = Casement Size = RO: 30" x 48"

Net Frame: 29 1/2" x 47 1/2"

Handing = Left

Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) Tempered over 1/8" 4th Surface HP Coating Tempered with Gray

Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame Hardware = White, Nesting Fold Down Roto/Stainless Steel Operator Handle

Screen = Standard with Fiberglass Mesh and White Finish

Ratings = STC: 28, OITC: 23, PG: LC-PG35

Clear Opening = W 20 1/2" x H 43 1/4" Sq. Ft. 6.16, Egress: Yes

Calculations = Unit Area (Sq. Ft.): 10, Unit Perimeter (nominal in lineal ft): 13'

Other Ratings = CPD: MIL-A-167-12391-00002

Viewed From Exterior

Customer Approval:

 Quote Number:
 SQPHYR001068_1
 Print Date:
 2/10/2025
 Page 3 of 5

Line: 7 Location: Stairwell

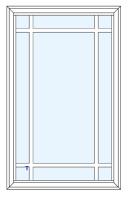
Quantity: 1 C650 Ultra, 3310U, PW, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .24, SHGC: .27, VT: .51

1/8" SunCoat (Low-E) Tempered over 1/8" 4th Surface HP Coating Tempered

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Picture
 Item Total:
 \$1,239.12

 Size = RO: 30" x 48"
 Line Total:
 \$1,239.12

Net Frame: 29 1/2" x 47 1/2" Energy Star Zone(s) = North Central

Glass = 1/8" SunCoat (Low-E) Tempered over 1/8" 4th Surface HP Coating Tempered with Gray

Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame

Ratings = STC: 28, OITC: 24, PG: CW-PG40

Calculations = Unit Area (Sq. Ft.): 10, Unit Perimeter (nominal in lineal ft): 13'

Other Ratings = CPD: MIL-A-150-04737-00002

Viewed From Exterior

Customer Approval: _____

Line: 8 Location: Bedrms

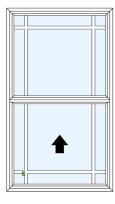
Quantity: 4 C650 Ultra, 3210U, SH, 1 3/8" Setback, Ext Frost / Int White, U-Factor: .26, SHGC: .26, VT: .48

1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating

Narrow Vintage, Ext Frost/Int Painted Wood, 4" Perimeter Per Frame

Argon Gas Filled

Tariff



 Model = Single Hung
 Item Total:
 \$1,548.12

 Size = RO: 35" x 60"
 Line Total:
 \$6,192.48

Net Frame: 34 1/2" x 59 1/2" Dimensions = Sash Height: One Half

Energy Star Zone(s) = None

Glass = 1/8" SunCoat (Low-E) over 1/8" 4th Surface HP Coating with Gray Foam Spacer

Glazing = 7/8" OA Dual Glaze with Argon

Grids = Narrow Vintage, Ext Frost / Int Painted Wood, 4" Perimeter Per Frame

Hardware = White, Cam Lock

Screen = Standard with Fiberglass Mesh Ratings = STC: 28, OITC: 22, PG: LC-PG30

Clear Opening = W 32 5/16" x H 26 1/8" Sq. Ft. 5.86, Egress: Yes

Calculations = Unit Area (Sq. Ft.): 15, Unit Perimeter (nominal in lineal ft): 16'

Other Ratings = CPD: MIL-A-157-04812-00002

Viewed From Exterior

Customer Approval: ____

Quote Number: SQPHYR001068_1 Print Date: 2/10/2025 Page 4 of 5



Pacific Windows LLC 3003 S Huson St Ste B Tacoma, WA 98409-2311 www.pacwindows.com



| Submitted By: Accepted By: | | Gr | Material Subtotal: rand Total (USD): | \$15,437.07 \$15,437.07 | | |
|--|---------------------------------------|--|---|-----------------------------------|--|--|
| Date: | | | | | | |
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| | | | | | | |
| For warranty inforr | nation please visit <u>www.milgar</u> | d.com/warranty/ | | | | |
| Please note that actual NFRC energy values may vary from those reported in CTB Quote Plus due to variations that may occur during the manufacturing process. In most cases variations will be minimal. Please contact your Milgard location with questions or concerns regarding this potential variation. | | | | | | |
| Painted Vinyl Note: For stucco applications, please follow the Milgard Stucco Tape Guidelines | | | | | | |
| https://www.milga | ird.com/sites/milgard/files/u/u | 57666/stucco taping guidelines 0920.pdf. | | | | |
| Handing is viewed | from outside looking in. | | | | | |
| | | | | | | |
| ADDITIONAL INFOR | RMATION: | | | | | |
| | URNS. ALL DAMAGES AND DEFI | NOT RESPONSIBLE FOR ANY MANUFACTURER ECTS MUST BE REPORTED WITHIN 2 DAYS. CUS | | | | |

Quote Number: SQPHYR001068_1 Print Date: 2/10/2025 Page 5 of 5



ULTRA™ SERIES C650

PREMIUM FIBERGLASS
WINDOWS & PATIO DOORS



STUNNING AND MODERN WITH VISUAL IMPACT
STRONG AND BUILT TO LAST





Modern design. Stunning visual impact.

Ultra[™] Series is our contemporary premium fiberglass window and patio door line that is strong and built to last.

The fiberglass material resists swelling, rotting, and warping making it the perfect choice for long-lasting durability coupled with exceptional beauty.

Awarded Most Used window brand in the Western United States*, Ultra Series offers high performing and energy efficient windows and patio doors for an upscale look that can complement any home.

*2020 Builder Magazine Brand Use Study

ULTRA SERIES | C650 OFFERS:

- Fiberglass frames are resistant to temperature fluctuations making them a durable, low maintenance choice
- Window hardware is attractive, secure and easy to operate
- Four exterior frame colors to enhance the look of your home
- Use Black Bean or Bark to create the popular dark window look with matching interior and exterior frames
- The Milgard Lifetime Limited Warranty





Why Milgard Windows & Doors

Quality

Milgard offers award-winning windows and patio doors built for long-lasting comfort. For over 50 years, industry experts have consistently recognized Milgard as a trusted brand, ranking us as Most Used fiberglass window brand*.

*According to the 2020 Builder Magazine Brand Use Study in the western U.S.

Experience

Since 1962, Milgard has designed and assembled superior custom-made windows and patio doors for replacement, remodeling and new construction. Milgard is known for their industryleading designs, using patented technologies, that help make your home more comfortable.

Service

We have always taken great pride in our ability to provide exemplary customer service. We believe that being close to our customers allows us to provide a better service experience. You'll find Milgard factory trained technicians near you in the Western U.S. and Canada.

Warranty

We have a dedication to quality and build our windows and patio doors to last. With Ultra[™] Series, you're covered for as long as you own your home with our Lifetime Limited Warranty. See complete details at MILGARD.COM/WARRANTY



Create the home of your dreams with the ultimate, upscale window that's exceptionally beautiful

Define Your Home with **Windows**

Your style, envisioned. Ultra™ Series fiberglass windows offer the performance and energy efficiency you want coupled with a contemporary style that creates a visual impact. With four exterior frame colors and five window hardware finishes, you can create the perfect look to elevate and add value to your home.







Single Hung

HARDWARE

Positive Action™ Lock, Cam Lock, Sash Pull



Casement

HARDWARE

Folding Nesting Operator, Sash Lock



Awning

HARDWARE

Folding Nesting Operator, Sash Lock



Horizontal Slider

HARDWARE

Positive Action Lock, Cam Lock, Sash Pull



Picture and Radius

HARDWARE

Non-operable





Bay and Bow

HARDWARE

Dependent on your window selection



Positive Action Lock, Clay



Cam Lock, Bronze





Folding Nesting Operator, Black

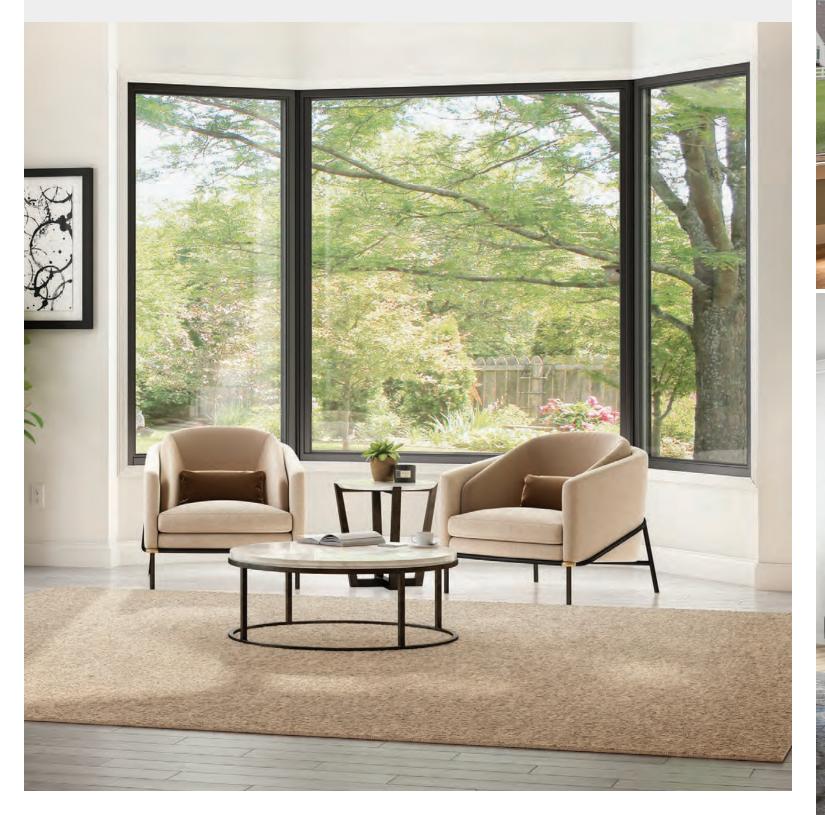


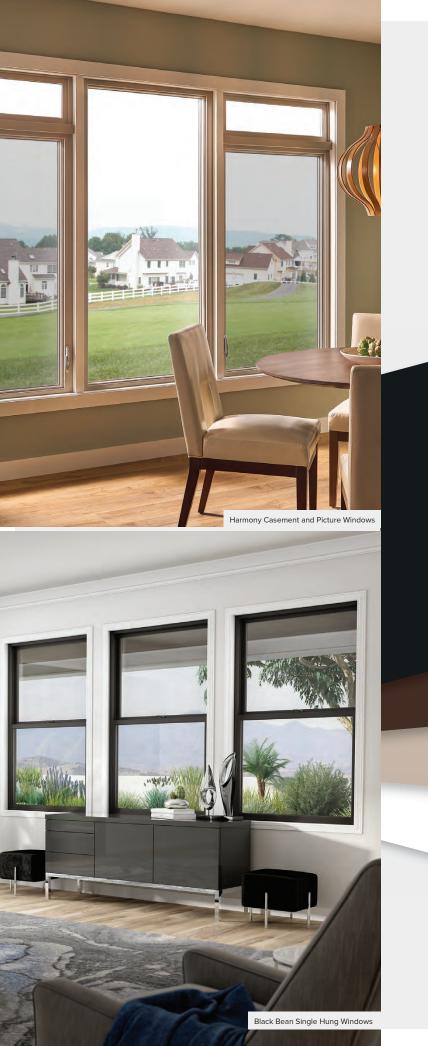
Window hardware is available in white, clay, dark bronze, black, and brushed chrome for all operating styles. Satin Nickel is available for casement and awnings only. Clay not available in all areas.



Modern Design Trend

Milgard brings you the latest in contemporary looks for your home. Ultra™ Series windows and patio doors can help you create the popular dark window look with matching interior and exterior frames in Black Bean or Bark. If you are designing a home with a modern aesthetic, Ultra Series is for you.





Make a **Statement** with Color

Exterior Colors

Choose white or color-matched interior

Colors shown are approximate. Visit your local Milgard Certified Dealer to see accurate finish samples.

Ultra™ Series | C650 Patio Doors

Create a grand entrance with Ultra Series fiberglass, French-style patio doors. These French doors are a simple addition that can add intricate detail in any room. Available in traditional swing style or sliding, you can enjoy a beautiful view of the outdoors while admiring the elegance of the door itself.









Sliding French Doors

- Engineered with a weather-strip system and top-quality rollers for impressively smooth and quiet operation
- Superior energy performance with SunCoat® Low-e glass coatings
- Stainless steel, multi-point locking hardware for security and high performance
- Available in 1, 2, 3, and 4 panel configurations
- Lifetime Limited Warranty

OPTIONS

- Exterior keyed lock
- Standard screens or optional PureView® screen mesh for enhanced visibility

1 Panel Min 2'6"w x 6'8"h Max 4'0"w x 8'0"h (fixed) 3 Panel Min 7'6"w x 6'8"h Max 12'0"w x 8'0"h 4 Panel Min 10'0"w x 6'8"h Max 12'0"w x 8'0"h

HARDWARE

Standard and decorative upgrade options available



Swing French Doors

- Choose an in-swing or out-swing operating style with two-way adjustable hinges for easy door panel alignment
- Superior energy performance with SunCoat® Low-e glass coatings
- Stainless steel, multi-point locking hardware for security and high performance
- Available in 1, 2, 3, and 4 panel configurations
- Lifetime Limited Warranty

OPTIONS

- Choose from standard or PureView® screen mesh for enhanced visibility on in-swing sliding screens
- Retractable screen also available (Not available in all sizes)
- Expand your view with sidelites and transoms

SIZING

1 Panel Min 2'6"w x 6'8"h Max 3'0"w x 8'0"h (fixed or operable) 2 Panel Min 5'0"w x 6'8"h Max 6'0"w x 8'0"h 3 Panel Min 7'6"w x 6'8"h Max 9'0"w x 8'0"h 4 Panel Min 10'0"w x 6'8"h Max 12'0"w x 8'0"h

HARDWARE

Standard and decorative upgrade options available

Sizes can vary by location. Your Milgard Certified Dealer can provide more detail on sizes available in your area.



Choose Your Door Hardware

Sliding Door Hardware

STANDARD OPTIONS (interior and exterior)

- Standard handle available in white, oil rubbed bronze, and black
- Handle can come either keyed, or unkeyed

DECORATIVE UPGRADE OPTIONS

- Sliding door handle is available in brushed chrome or satin nickel finish as an upgraded option
- Keyed alike option available for multiple doors on

WHITE

STANDARD INTERIOR HANDLE, STANDARD EXTERIOR HANDLE, BI ACK

Swing Door Hardware

STANDARD OPTIONS (interior and exterior)

- Madrona™ swing door handle is available in white, oil rubbed bronze, and black
- ADA-compliant door handle and low-profile sill option available See your Milgard Dealer for more information

DECORATIVE UPGRADE OPTIONS

- Meridian[™] and Mastri[™] handle designs available in white, oil rubbed bronze, and black
- Decorative upgrade options for Madrona[™], Mastri[™] and Meridian™ handles include brushed chrome and satin nickel finishes
- Keyed alike option available for multiple doors on the same order

SIDELITE HANDLE

- Available for operable sidelites
- · Sidelite handle finish will match interior door handle finish selection



MADRONA SWING DOOR INTERIOR HANDLE, SATIN NICKEL UPGRADE



MADRONA SWING DOOR EXTERIOR HANDLE,



MASTRI INTERIOR HANDI F SATIN NICKEL



MERIDIAN INTERIOR HANDLE OIL RUBBED BRONZE



SIDELITE HANDLE **BRUSHED CHROME**

Hardware **Finishes**



Bronze





Satin Nickel Brushed Chrome

Make it Your Own



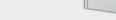


Grids

Express your creativity and dramatically increase your home's curb appeal with our virtually endless grid options. Select grid choices placed inside our insulated glass units for easiest window cleaning.

VISIT MILGARD.COM/GRIDS TO SEE FULL COLLECTION OF OPTIONS







SCULPTURED GRID





1-1/8" VINTAGE

Decorative Glass

FLAT GRID

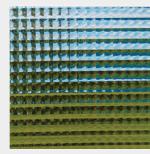
For rooms, such as the bathroom, we offer obscure glass for privacy or decorative flair. We also have tinted glass for additional shading from direct sunlight.

VISIT MILGARD.COM/GLASS TO SEE FULL COLLECTION OF OPTIONS















Details That Matter

Exceptionally Strong

The strength of fiberglass protects your investment from the elements in all seasons. Because of its inherent properties, fiberglass won't swell like wood and it expands and contracts at the same minimal rate as the glass it holds for improved energy efficiency.

Fiberglass won't crack, peel, warp, split, pit or corrode and is virtually impervious to water. Milgard regularly tests its fiberglass lineals for color uniformity, gloss, film thickness and chemical resistance for quality and long-lasting performance you can count on.

Installation Configurations



Energy Efficiency

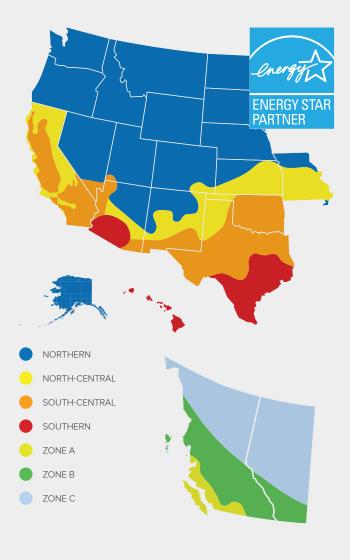
Tested and Built for Your Climate

At Milgard, we help homeowners like you make an impact on their energy consumption by offering energy efficient windows and patio doors designed for your homes comfort.

We make it easy to meet local energy codes and green building efficiency standards with a selection of energy packages you can tailor to your specific climate. We conduct thermal simulations to improve energy performance and we adhere to ENERGY STAR® v6 requirements that meet or exceed U-Factor and Solar Heat Gain Coefficient (SHGC) criteria in the areas we serve.

Your energy efficient windows could include one or more of the following features based on your climate.

SunCoat® or SunCoatMAX® EdgeGardMAX™ Spacer Foam Spacer Argon 4th Surface Low-e Triple Glaze













For more information including technical specifications and reviews, visit

MILGARD.COM/ULTRA

 $\label{eq:energy} ENERGY\ STAR@is\ a\ registered\ trademark\ of\ the\ U.S.\ Environmental\ Protection\ Agency.\ Milgard\ Windows\ is\ proud\ to\ be\ an ENERGY\ STAR@ightharpoonup partner,\ with\ all\ Ultra\ Series\ products\ ENERGY\ STAR@ightharpoonup qualified\ for\ all\ U.S.\ zones.$

Milgard Ultra Series windows and doors meet criteria for structural integrity and reliable performance established by the American Architectural Manufacturers Association (AAMA). Consult your Milgard representative for specific test information.

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