

2015 PRESCRIPTIVE ENERGY CODE COMPLIANCE FOR CLIMATE ZONE 5 AND MARINE 4 REFERENCE TABLES R402.1.1 AND 402.1.3		
	R-VALUE	U-FACTOR
FENESTRATION U-FACTOR	N/A	U-0.30
GLAZED FENESTRATION SHGC	N/A	N/A
CEILING R-VALUE	R-49 FLAT/R-38 VAULT	U-0.026
WOOD FRAME WALL R-VALUE	R-21 INT.	U-0.056
FLOOR R-VALUE	R-30	U-0.029
- R-VALUES ARE MINIMUMS. U-FACTORS ARE MAXIMUMS. - FOR VAULTED CEILINGS, THE INSULATION MAY BE REDUCED TO R-38. - INT. = INTERMEDIATE FRAMING TO INCLUDE 16" O.C. STUDS, 2-STUD CORNER, 2 STUD HEADER SUPPORT, R-10 INSULATED HEADERS. - FNDN VENTS SHALL BE BELOW FLOOR INSULATION. AT HUNG JOIST CONDITIONS A PERMANENTLY ATTACHED BAFFLE SHALL BE INSTALLED AT 30 DEGREE ANGLE TO DIVERT AIR FLOOR BELOW INSULATION.		
2015 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS REFERENCE TABLE R406.2		
	DESCRIPTION	CREDITS
1. SMALL DWELLING UNIT:	LESS THAN 1,500 SF / 90 SF FENESTRATION	1.5 CREDIT
2. MEDIUM DWELLING UNIT:	ALL DWELLINGS NOT #1 OR #3	2.5 CREDIT
3. LARGE DWELLING UNIT:	MORE THAN 5,000 SF	4.5 CREDIT
4. SMALL ADDITIONS:	LESS THAN 500 SF	0.5 CREDIT
(COMPLIANCE OPTION(S) BY CONTRACTOR)		
TABLE R406.2 SUMMARY		
OPT.	DESCRIPTION (TABLE R-402.1.1 MODIFICATIONS)	CREDIT
1a	EFFICIENT BUILDING ENVELOPE 1a FENESTRATION: U-0.28, FLOOR: R-38, ABOVE/BELOW GRADE SLAB: R-10 FULL SLAB	0.5
1b	EFFICIENT BUILDING ENVELOPE 1b FENESTRATION: U-0.25, WALL: R-21 + R-4, FLOOR: R-38, BSMT WALL: R-21 INT. + R-5 CI, ABOVE/BELOW GRADE SLAB: R-10 FULL SLAB	1.0
1c	EFFICIENT BUILDING ENVELOPE 1c FENESTRATION: U-0.22, CEILING: R-49 ADV., WALL R-21 INT. + R-12 CI, FLOOR: R-38, BSMT WALL: R-21 INT. + R-12 CI, ABOVE/BELOW GRADE SLAB: R-10 FULL SLAB	2.0
1d	EFFICIENT BUILDING ENVELOPE 1d FENESTRATION: U-0.24	0.5
2a	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2a HIGH EFFICIENT (0.35 MAX WATTS/CFM) WHOLE HOUSE FAN NOT INTERLOCKED WITH THE FURNACE FAN+ MAX 3.0 AIR CHANGES/HOUR	0.5
2b	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2b HEAT RECOVERY (0.70) WHOLE HOUSE + MAX 2.0 AIR CHANGES/HOUR	1.0
2c	AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2c HEAT RECOVERY (0.85) WHOLE HOUSE + MAX 1.5 AIR CHANGES/HOUR	1.5
3a	HIGH EFFICIENCY HVAC EQUIPMENT 3a GAS, PROPANE OR OIL-FIRED FURNACE w/ MIN AFUE OF 94% OR GAS, PROPANE OR OIL-FIRED BOILER w/ MIN AFUE OF 92%	1.0
3b	HIGH EFFICIENCY HVAC EQUIPMENT 3b AIR-SOURCE HEAT PUMP (HP) w/ MIN HSPF OF 9.0	1.0
3c	HIGH EFFICIENCY HVAC EQUIPMENT 3c CLOSED-LOOP GROUND SOURCE HP w/ MIN COP OF 3.3 or OPEN-LOOP WATER SOURCE HP w/ MAX HEAD 150'/MIN COP OF 3.6	1.5
3d	HIGH EFFICIENCY HVAC EQUIPMENT 3d DUCTLESS SPLIT SYSTEM HP, ZONAL CONTROL	1.0
4	HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM COMPONENTS INSTALLED IN NON-CRAWL CONDITIONED SPACE	1.0
5a	EFFICIENT WATER HEATING 5a SHWR/KIT SINK FAUCETS ≥ 1.75 GPM : LAV FAUCETS ≥ 1.0 GPM	0.5
5b	EFFICIENT WATER HEATING 5b GAS/PROPANE/OIL WH MIN 0.74 EF OR WATER HEATER BY GROUND SOURCE HEAT PUMP PER OPTION 3C	1.0
5c	EFFICIENT WATER HEATING 5c GAS/PROPANE/OIL WH MIN 0.91 EF OR SOLAR WATER HTR SUPPLEMENT w/RATED MIN SAVINGS OF 85 therms OR ELECTRIC HEAT PUMP WH MIN 2.0 EF	1.5
5d	EFFICIENT WATER HEATING 5d DRAIN WATER HEAT RECOVERY UNIT AT ALL SHOWERS w/ EFFICIENCY OF 40% FOR EQUAL FLOW OR 52% FOR UNEQUAL FLOWS	0.5
6	RENEWABLE ELECTRIC ENERGY ON-SITE WIND OR SOLAR, 0.5 CREDIT PER 1200 kWh	3.0 MAX

SCOPE OF WORK - SHEET NOTES

- THIS IS A LIVING ROOM AND MASTER BATH ADDITION WITH EXPANSION OF EXISTING BEDROOMS
- EXTERIOR DESIGN:
THE ADDITION SHALL MATCH STYLE OF EXISTING BUILDING. DESIGN ELEMENTS HAVE BEEN SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR TO VERIFY ALL SIDING MATERIAL SELECTION AND COLOR w/ OWNER.
- INTERIOR MODIFICATIONS:
THE ADDITION SHALL MATCH THE FLOOR ELEVATION OF THE MAIN FLOOR. CONTRACTOR TO VERIFY FLOOR FINISHES AND FINAL ELEVATIONS PRIOR TO COMMENCING WORK. ALL CABINETRY, COUNTERTOPS, APPLIANCES AND FLOORING BY CONTRACTOR.
- INSTALL SMOKE DETECTORS PER CODE IF MISSING. FIELD LOCATE.
- CODE COMPLIANCE:
ENERGY CODE - 2012 WA STATE ENERGY CODE.

HEATING: EXISTING FURNACE OR WALL MOUNT UNITS PER MECHANICAL CONTRACTOR.

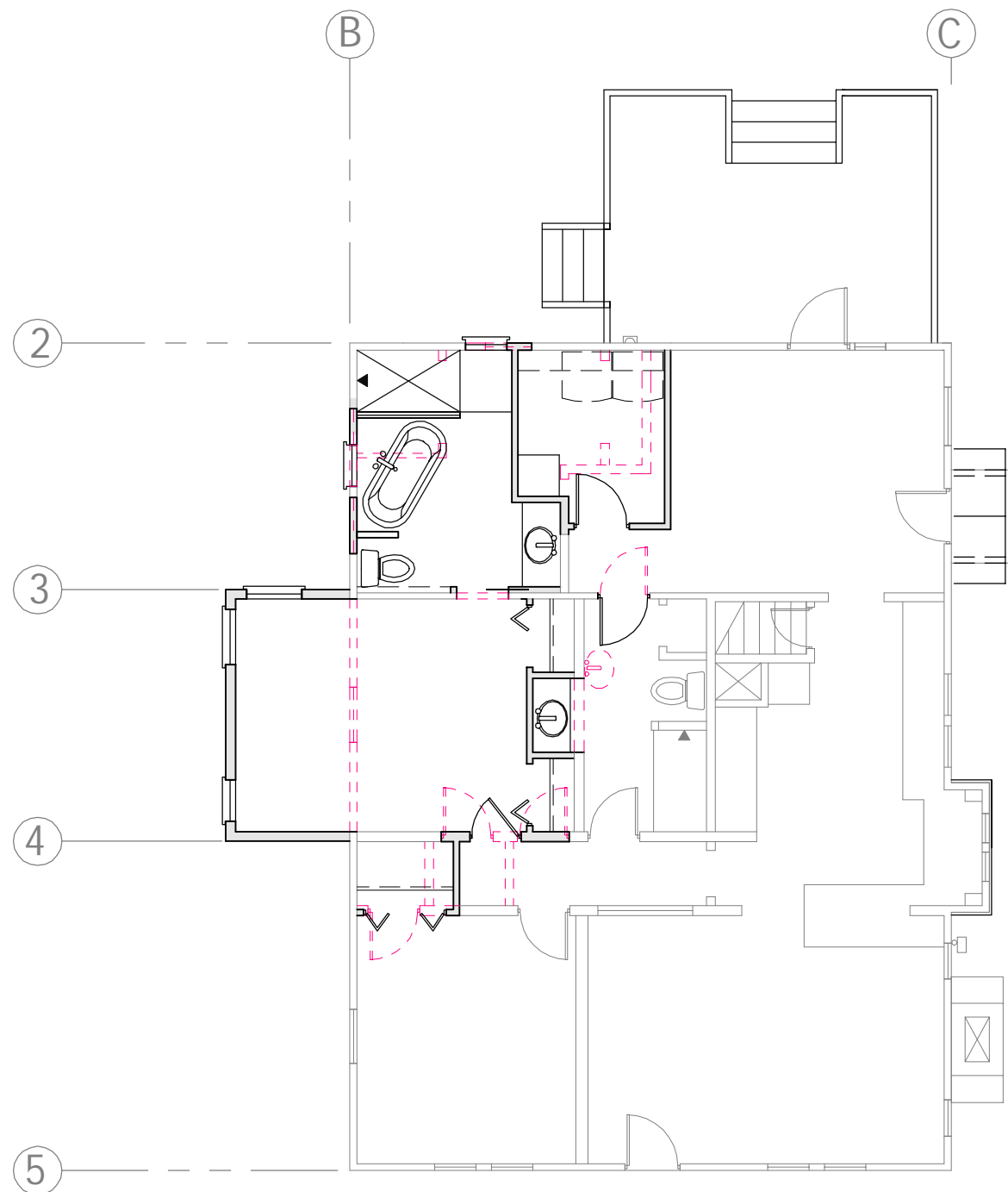
VENTILATION:
ATTIC SPACE
PROVIDE 1 SF VENTILATION PER 150 SF. USE SOFFIT VENT STRIPS AND RIDGE VENTS.

CRAWL SPACE
PROVIDE 1 SF VENTILATION PER 300 SF., FIELD LOCATE ALL SIDES. DO NOT BLOCK WITH INSULATION OR FRAMING MEMBERS. DO NOT LOCATE WITHIN 1" OR HOLDOWN OR POINT LOAD OR NEAR PLUMBING.
- ACCESS:
CRAWL SPACE ACCESS LOCATION TO BE FIELD LOCATED. SHOWN 36"x24" (MIN 24"x18"). DO NOT LOCATE WITHIN 4' OF A CORNER, 1'-0" OF A HOLDOWN OR POINT LOAD OR NEAR PLUMBING/HVAC. SCREEN AT ACCESS CAN. PROVIDE PART OF FOUNDATION VENTILATION.

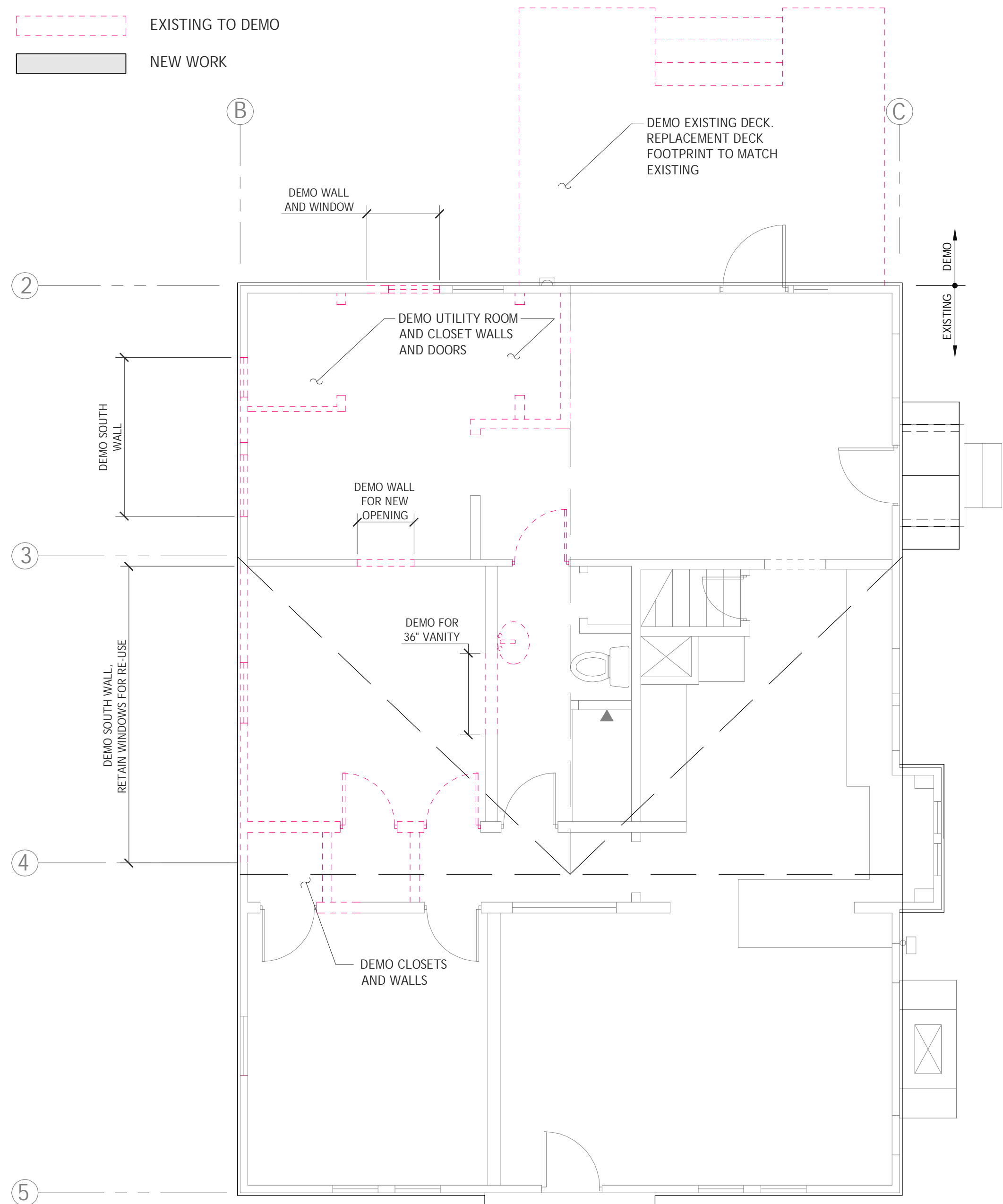
ATTIC ACCESS LOCATION TO BE FIELD LOCATED. PROVIDE ACCESS INTO ANY ROOF STRUCTURE THAT IS GREATER THAN 23" IN HEIGHT. MIN 22"x33" OPENING.
- CEILING PLATE HEIGHT MATCH EXISTING.
- ALL WALLS SHALL BE 90 DEGREE OR 45/135 DEGREE.
- UNO, DOORS NOT DIMENSIONED ARE CENTERED TO WALL OR HAVE (2)MIN STUDS BETWEEN DOOR AND ADJOINING WALL.
- SEE NOTES ON STRUCTURAL SHEET S1 FOR ADDITIONAL INFORMATION.
- THIS STRUCTURE IS DESIGNED BY A PROFESSIONAL ENGINEER TO COMPLY WITH 2015 IBC STANDARDS AS AN ENGINEERED STRUCTURE.

LEGEND

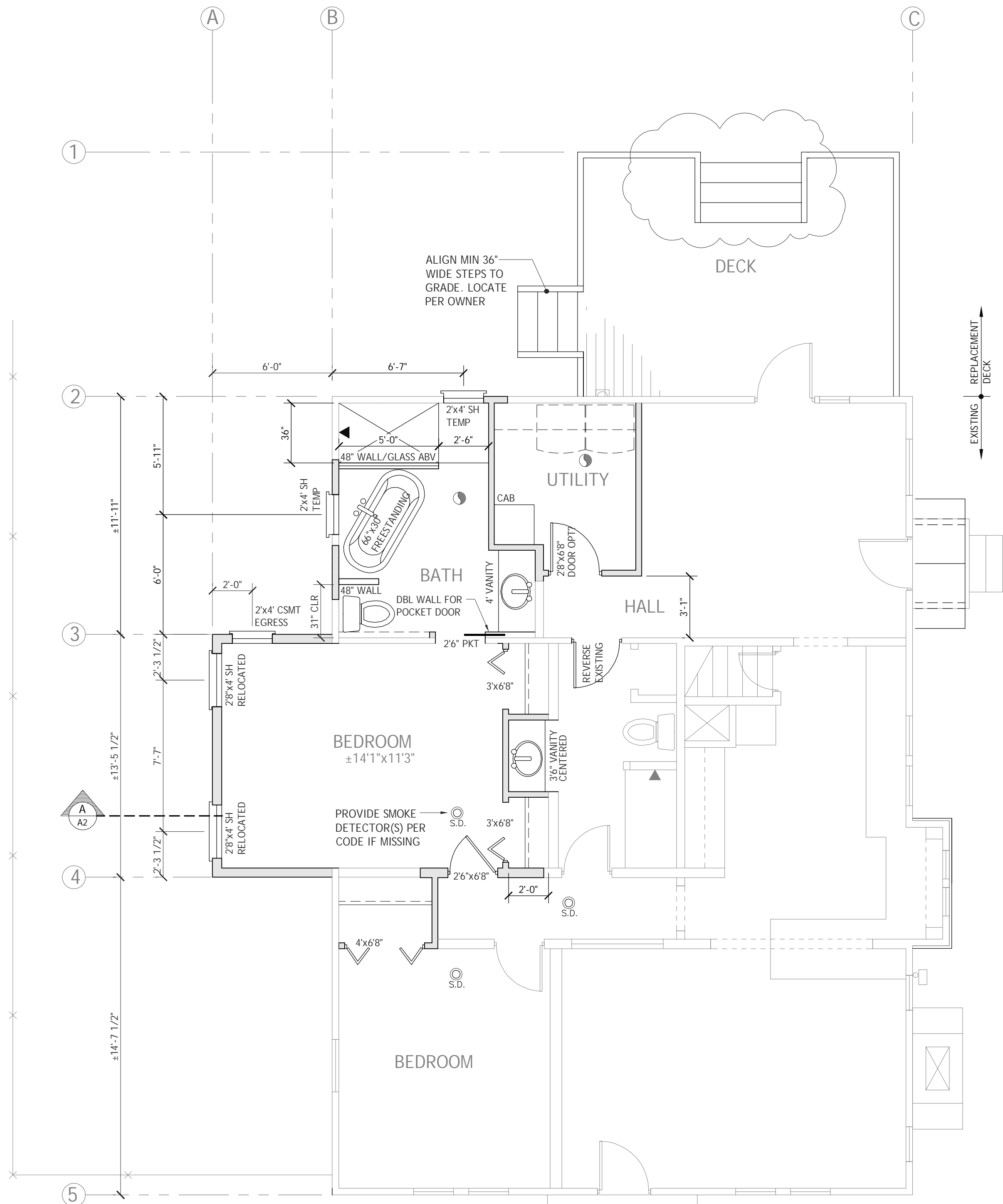
- EXISTING TO REMAIN
- EXISTING TO DEMO
- NEW WORK



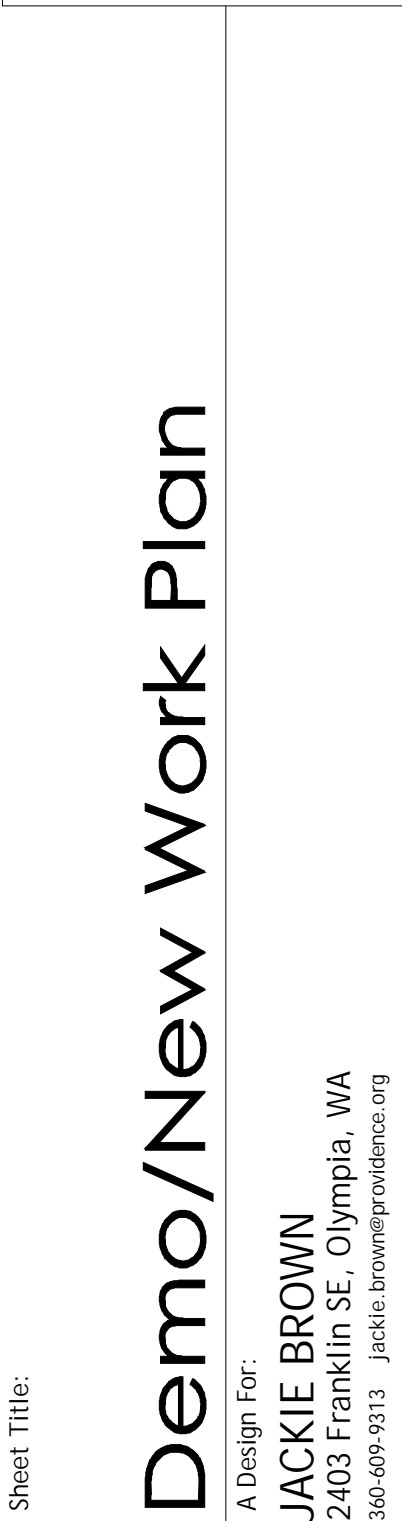
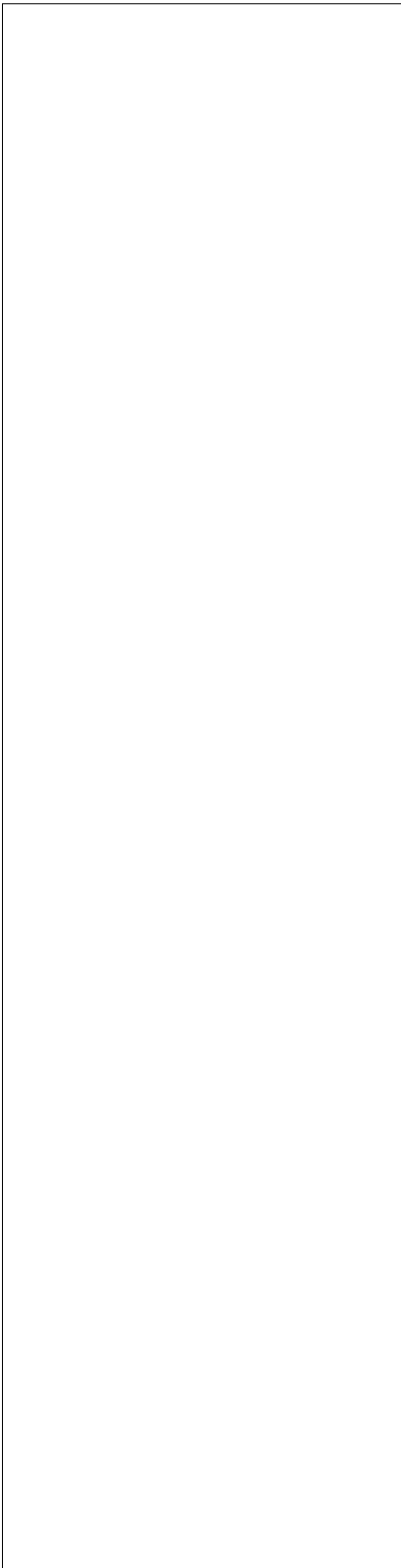
Demo/New Key Plan
SCALE: 1/8" = 1'-0"



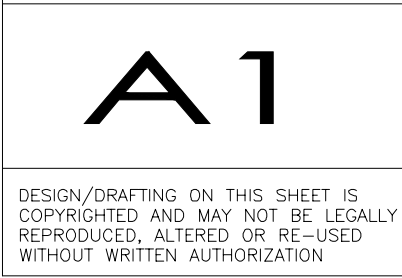
Demo Plan
SCALE: 1/4" = 1'-0"

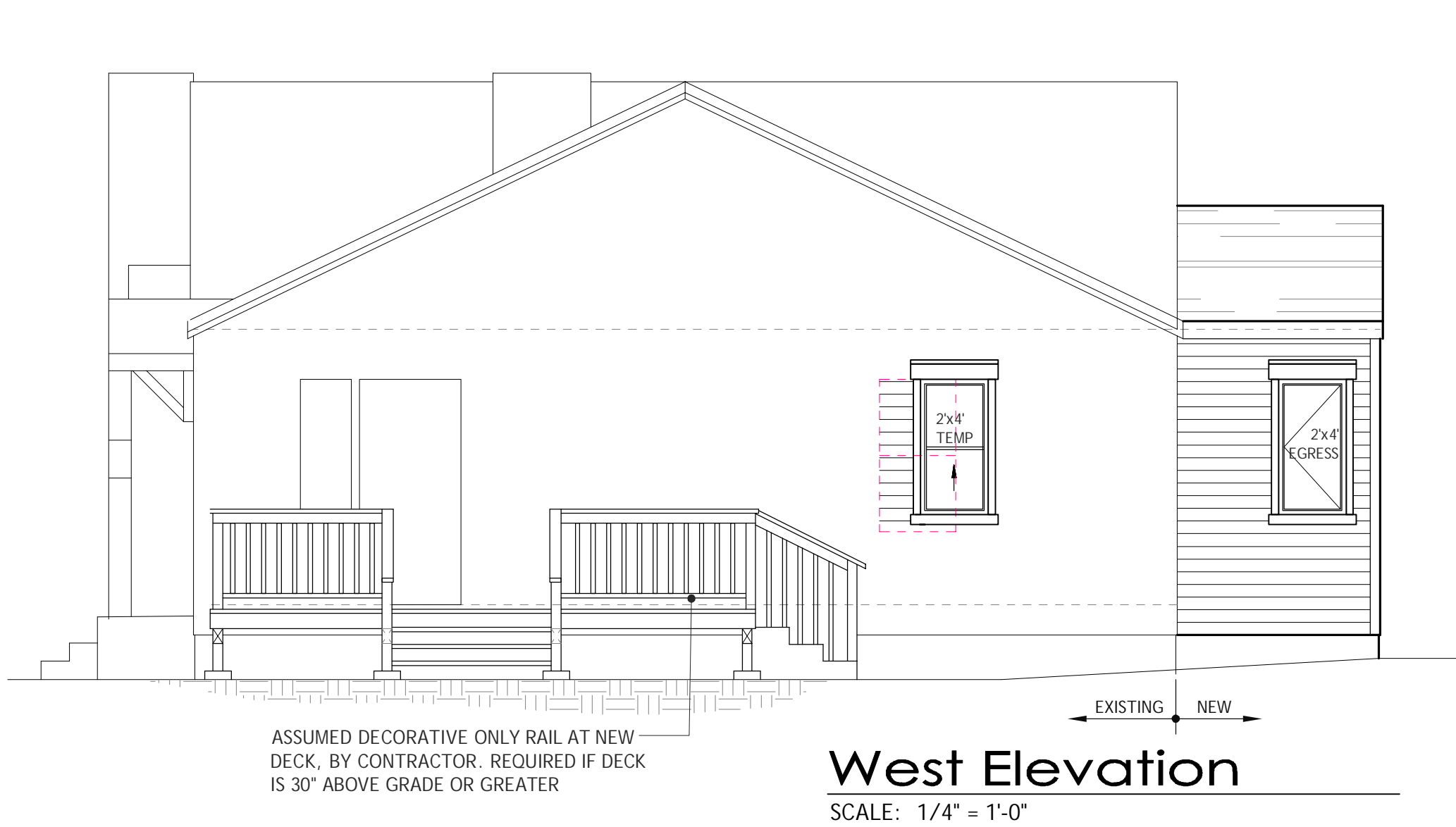
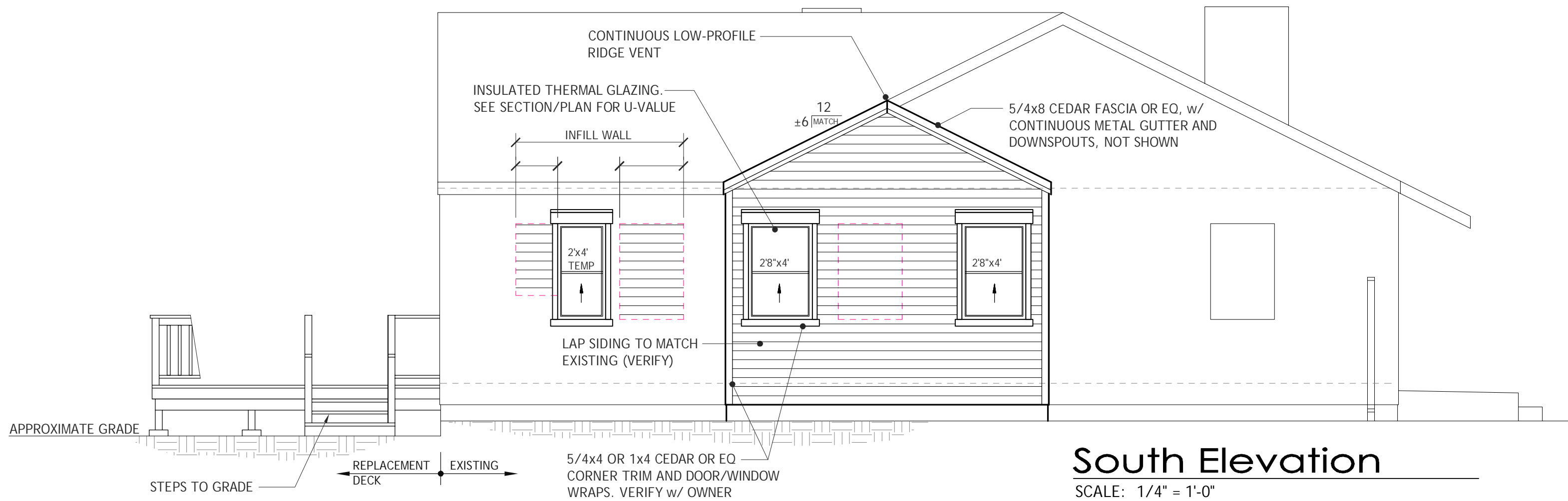
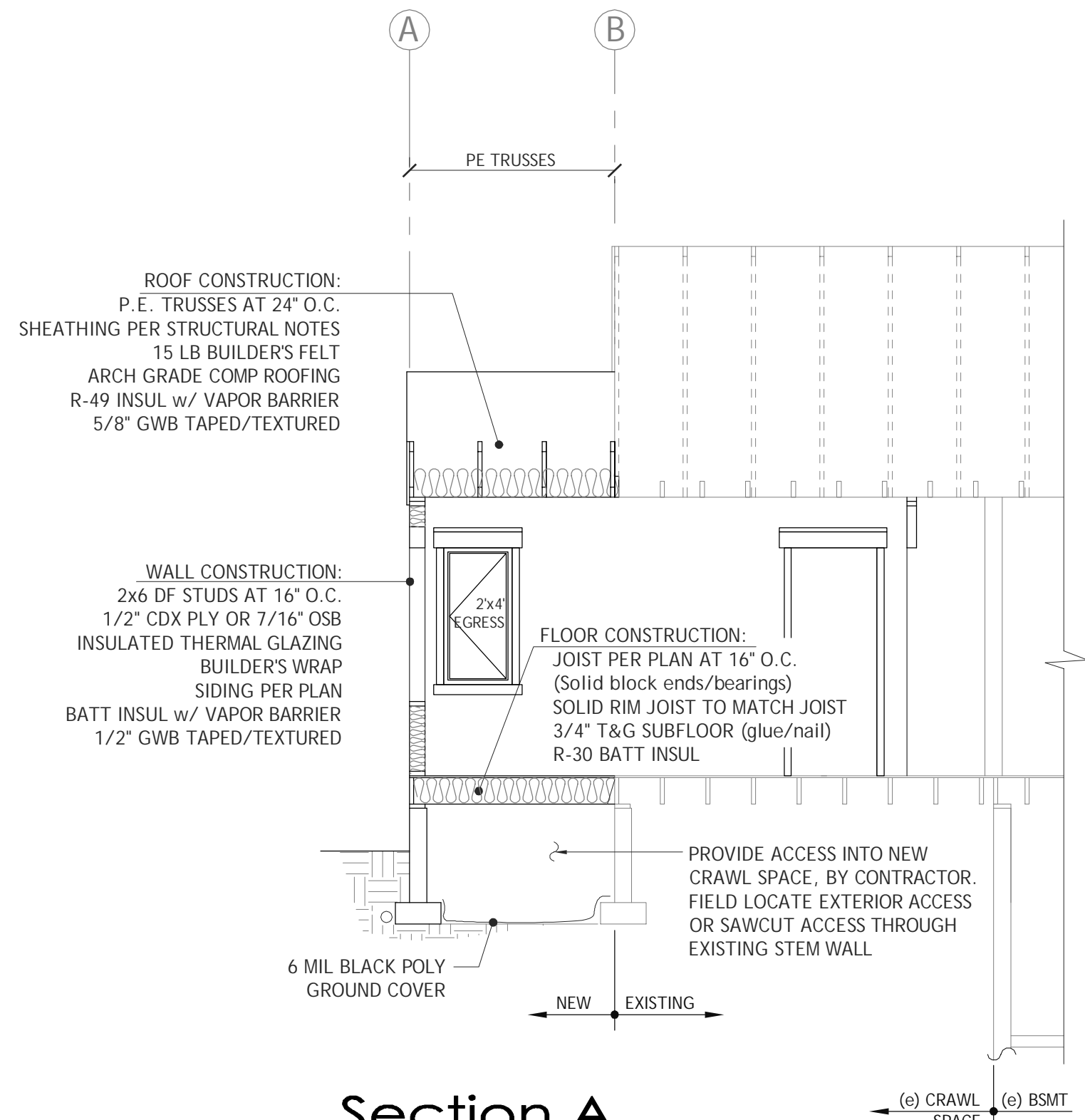


New Work Floor Plan
SCALE: 1/4" = 1'-0"



Drafting by:	C. H. S.
Designed by:	C. H. S.
Issue Date:	JUNE 2018
Square Footage:	
Existing:	1163.0
Addition:	73.0





Sheet Title:

Section and Elevations

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Issue Date: JUNE 2018

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