



WEST ELEVATION



SOUTH ELEVATION

SOUTHEASTERN
ONTARIO PHASED
RETROFIT

DATE
January 26, 2024

RETROFIT STAGES

DRAWN BY
PA

ORIGINAL
ELEVATIONS:
WEST & SOUTH

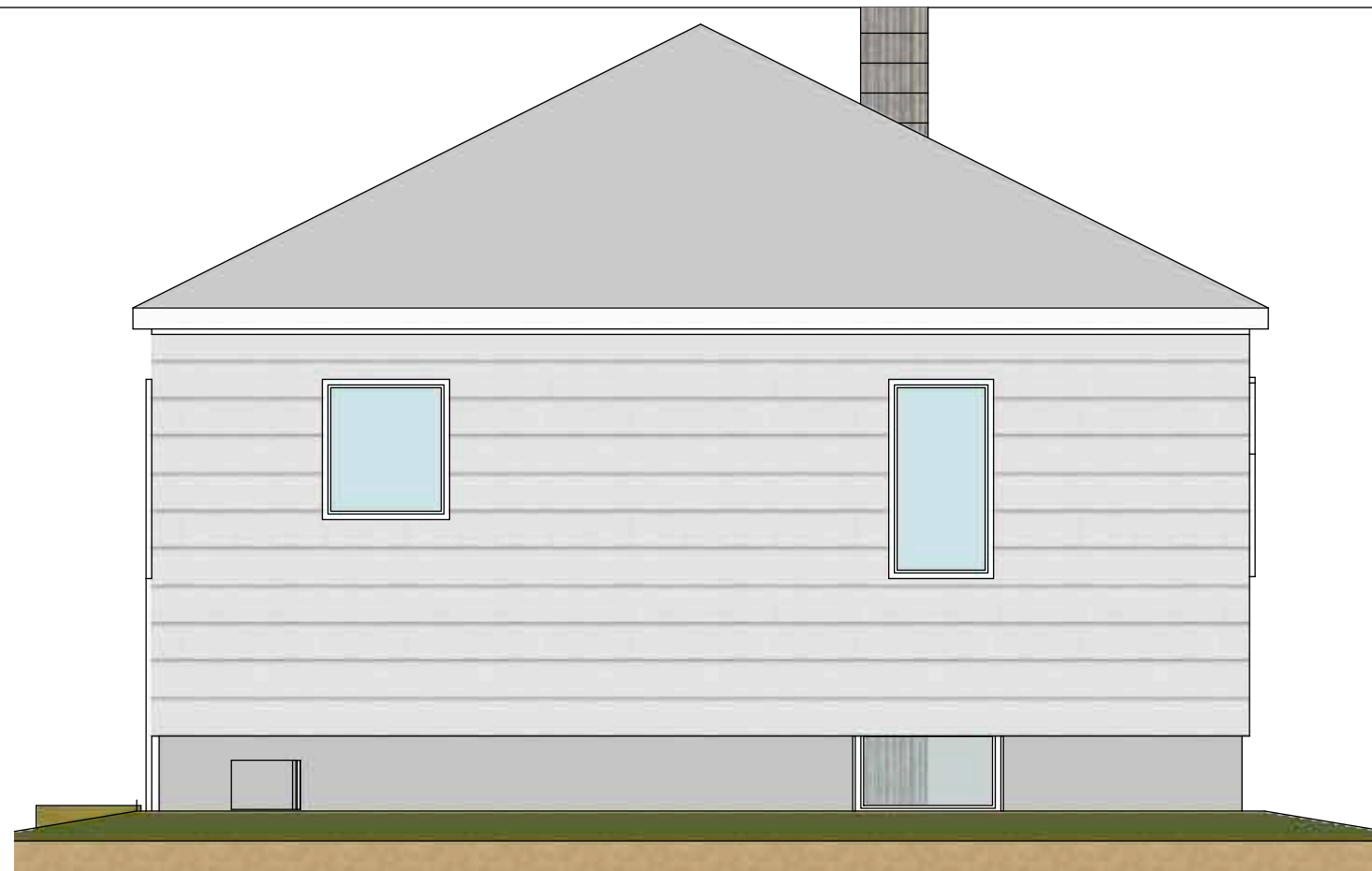
SOUTHEASTERN
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RETROFIT STAGES

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PA

ORIGINAL
ELEVATIONS: EAST
& NORTH



EAST ELEVATION



NORTH ELEVATION

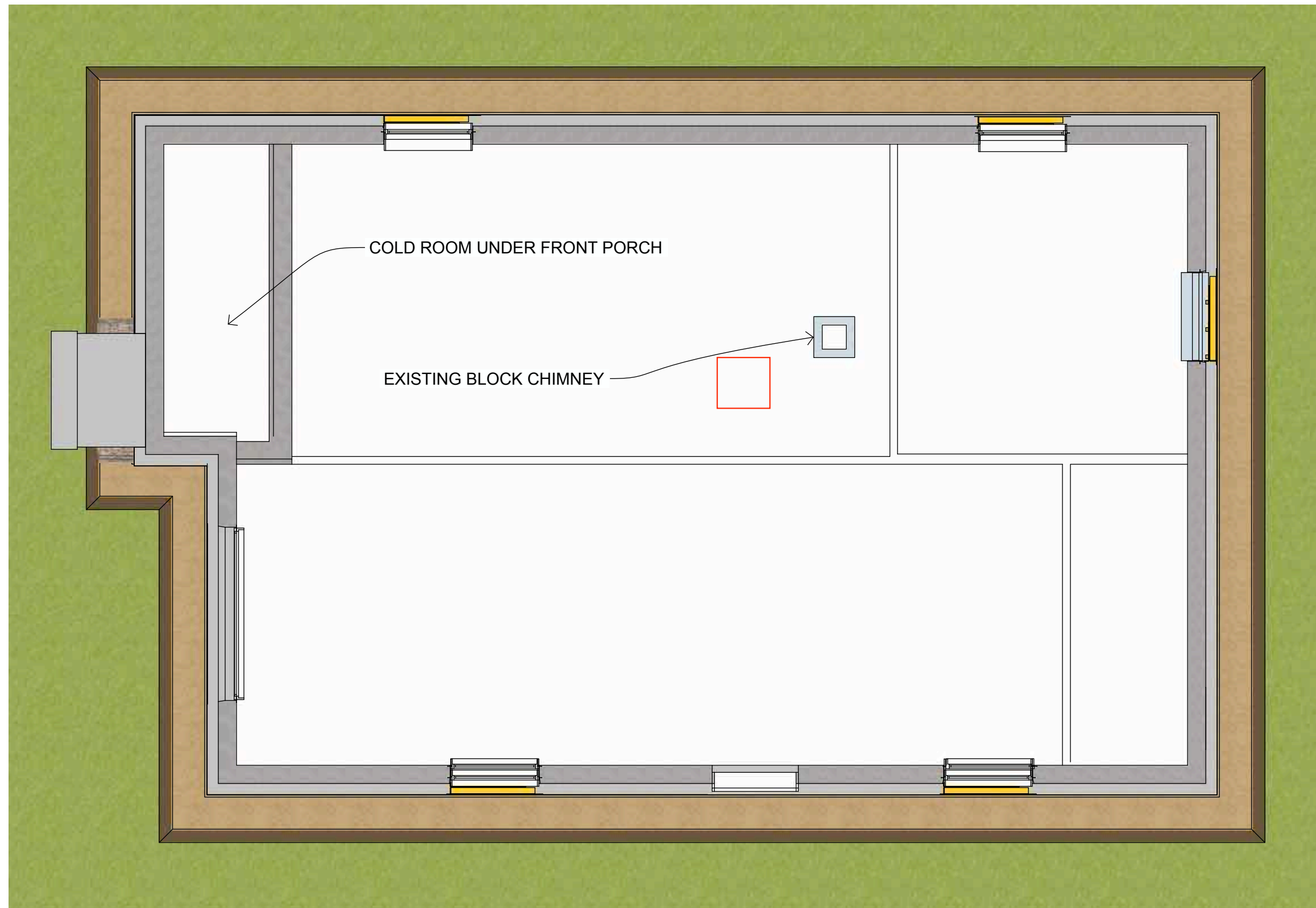
SOUTHEASTERN
ONTARIO PHASED
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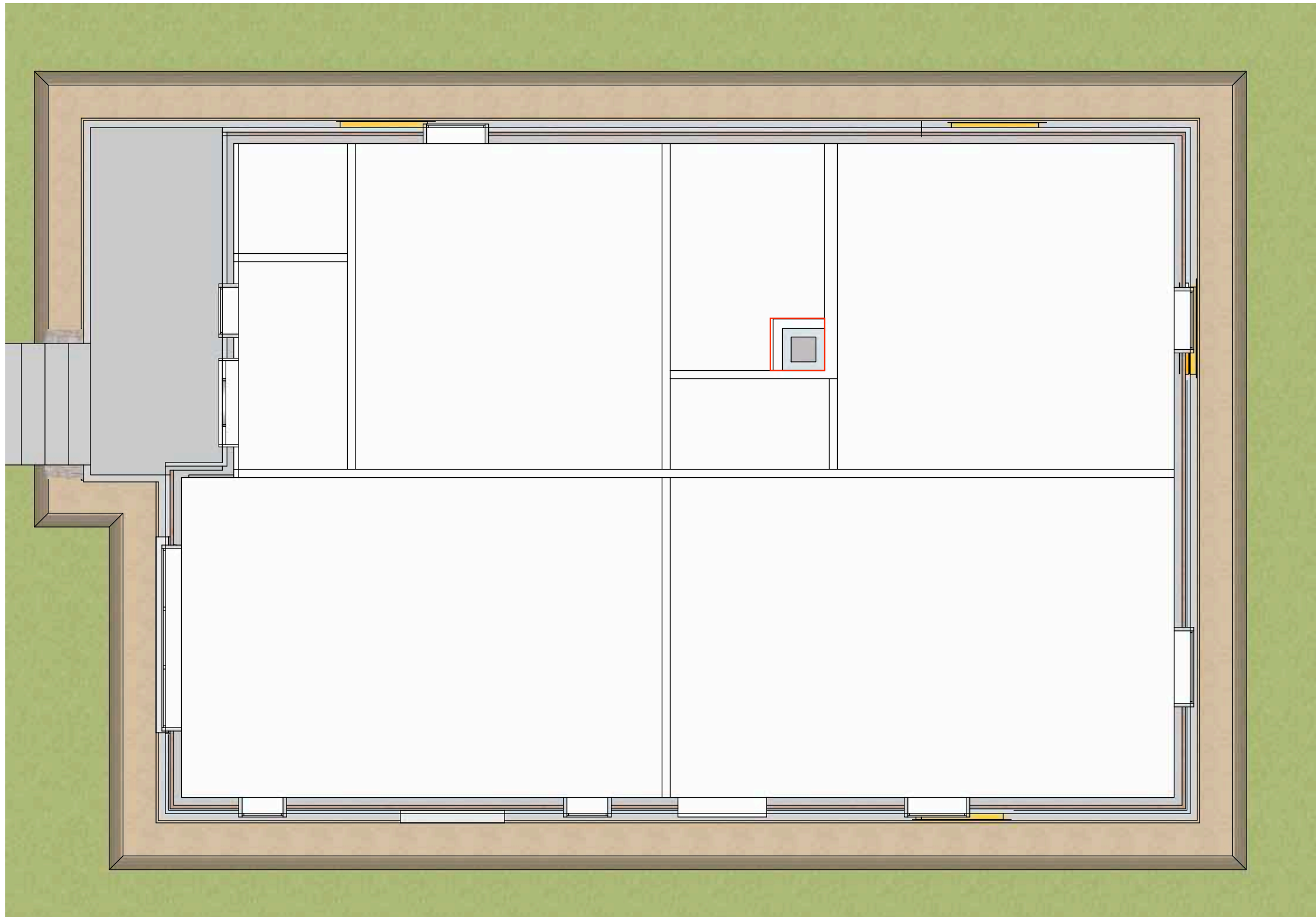
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BASEMENT PLAN





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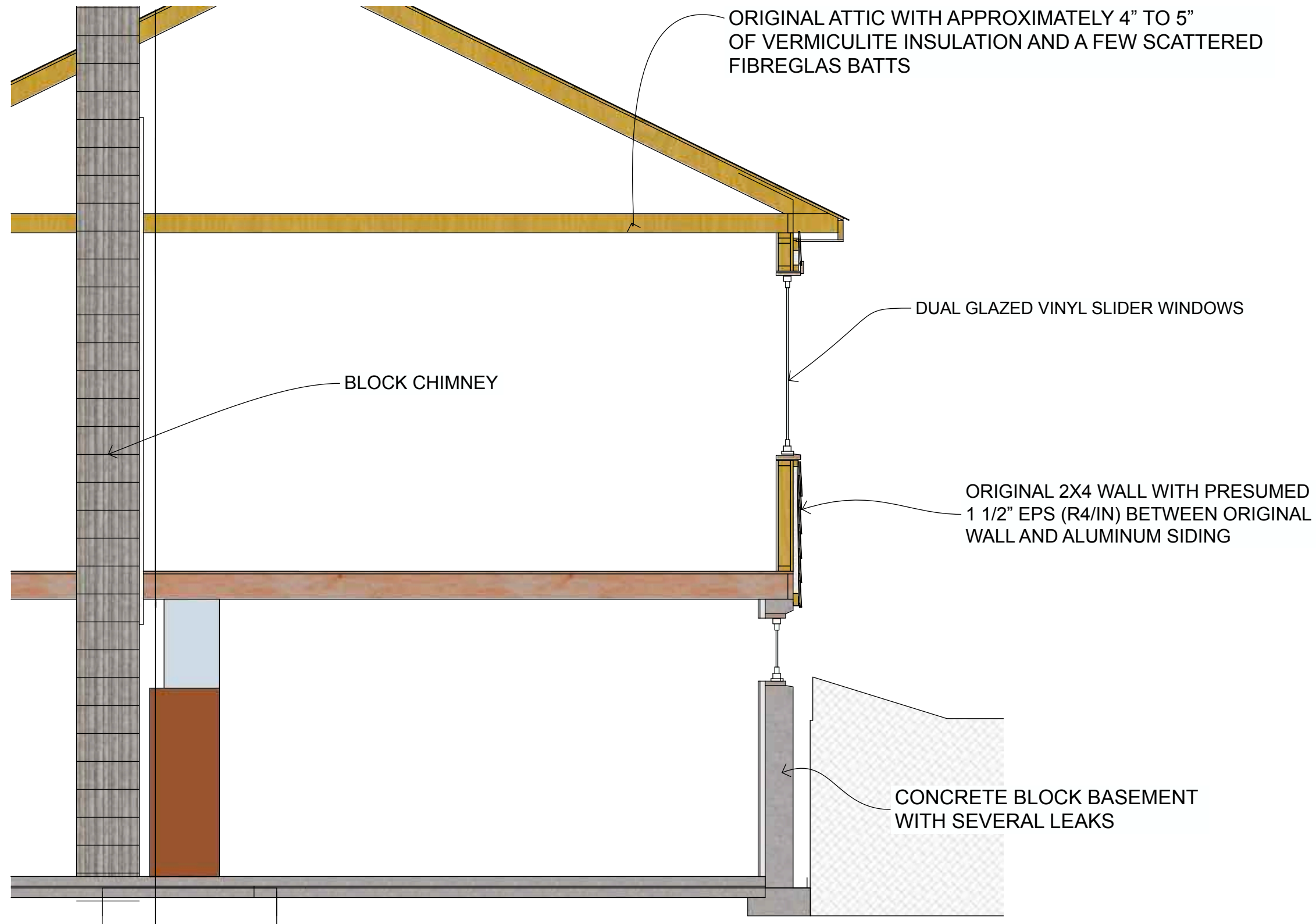
MAIN FLOOR

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N-S SECTION
EXISTING



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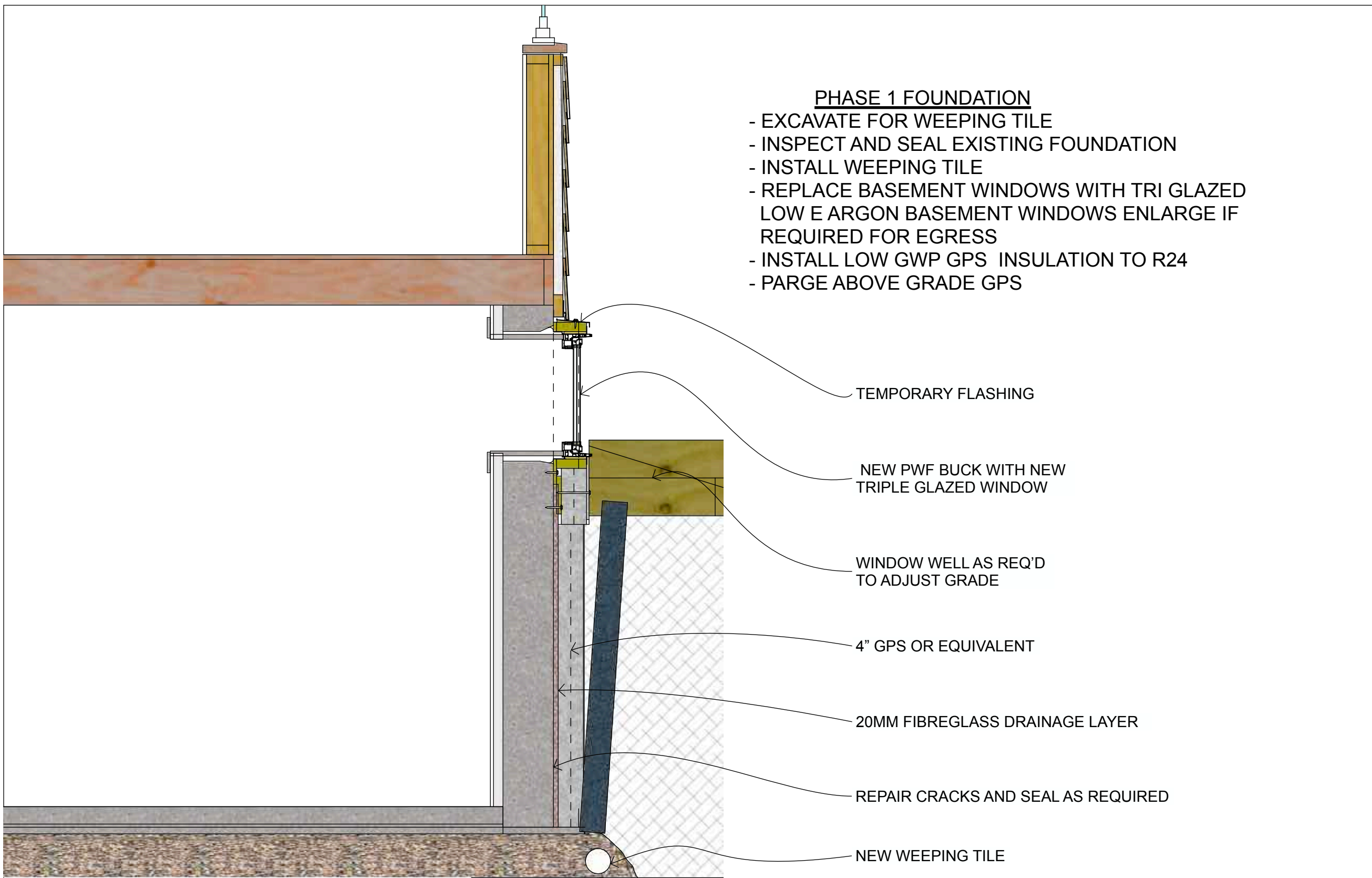
RETROFIT STAGES

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N-S SECTION
PHASE 1
FOUNDATION

PHASE 1 FOUNDATION

- EXCAVATE FOR WEeping TILE
- INSPECT AND SEAL EXISTING FOUNDATION
- INSTALL WEeping TILE
- REPLACE BASEMENT WINDOWS WITH TRI GLAZED LOW E ARGON BASEMENT WINDOWS ENLARGE IF REQUIRED FOR EGRESS
- INSTALL LOW GWP GPS INSULATION TO R24
- PARGE ABOVE GRADE GPS



TEMPORARY FLASHING

NEW PWF BUCK WITH NEW TRIPLE GLAZED WINDOW

WINDOW WELL AS REQ'D TO ADJUST GRADE

4" GPS OR EQUIVALENT

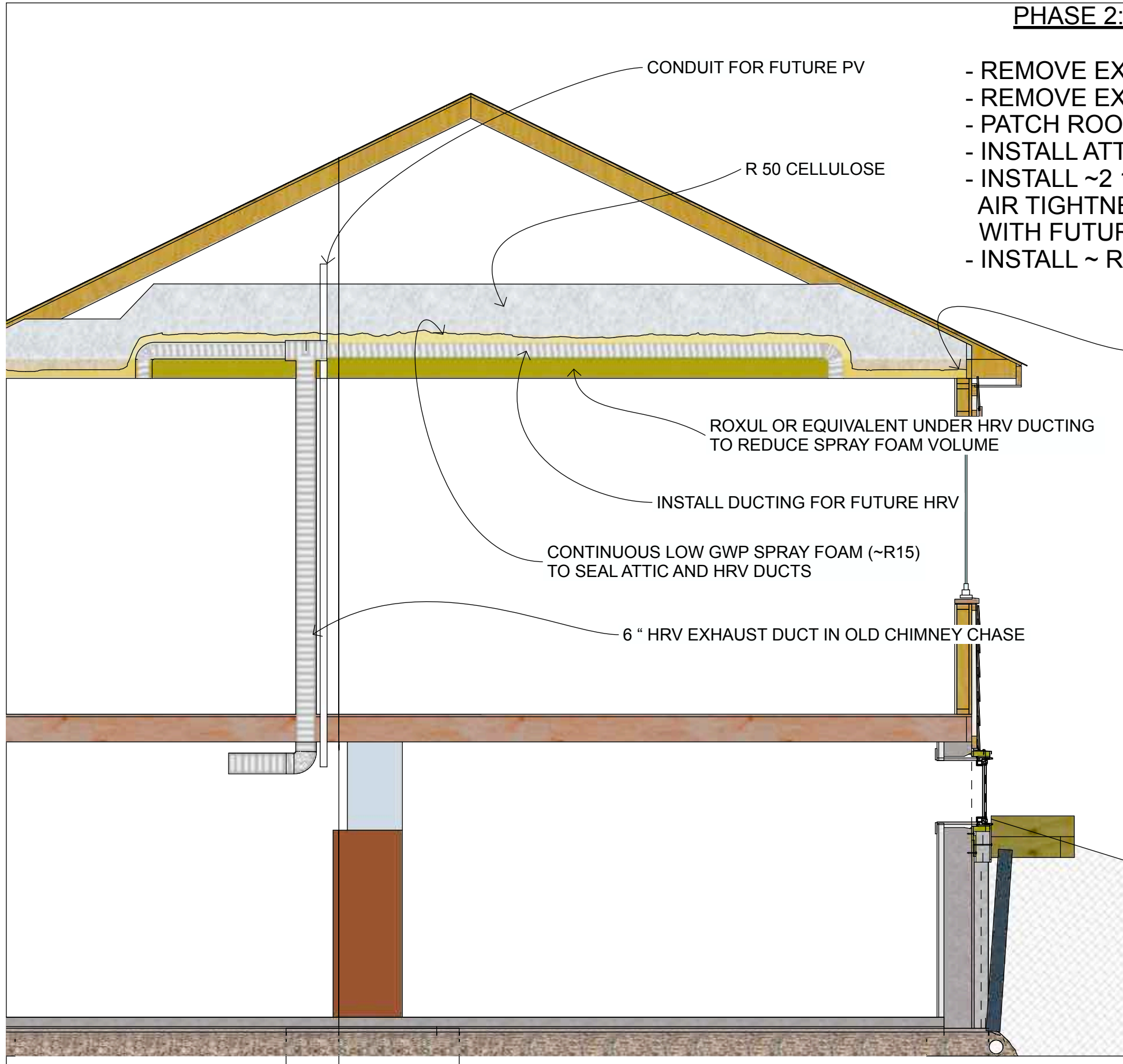
20MM FIBREGLASS DRAINAGE LAYER

REPAIR CRACKS AND SEAL AS REQUIRED

NEW WEeping TILE

PHASE 2: ATTIC

- REMOVE EXISTING INSULATION
- REMOVE EXISTING BLOCK CHIMNEY
- PATCH ROOF
- INSTALL ATTIC DUCTING FOR FUTURE HRV
- INSTALL ~2 1/2" LOW GWP SPRAY FOAM FOR AIR TIGHTNESS. PROVIDE FOR CONTINUITY WITH FUTURE WALL AIR BARRIER
- INSTALL ~ R50 CELLULOSE



CONDUIT FOR FUTURE PV

R 50 CELLULOSE

SEAL TO BLOCKING AND TOP
PLATE TO PROVIDE FOR FUTURE
TIE IN WITH WALL WRB

ROXUL OR EQUIVALENT UNDER HRV DUCTING
TO REDUCE SPRAY FOAM VOLUME

INSTALL DUCTING FOR FUTURE HRV

CONTINUOUS LOW GWP SPRAY FOAM (~R15)
TO SEAL ATTIC AND HRV DUCTS

6 " HRV EXHAUST DUCT IN OLD CHIMNEY CHASE

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N-S SECTION
PHASE 2 ATTIC

PHASE 3: WALLS AND WINDOWS

- REMOVE AND RECYCLE EXISTING ALUMINUM SIDING.
- ADD LOW GWP BOARD INSULATION TO R12 TO R15
- REPLACED EXISTING WINDOWS WITH HIGH PERFORMANCE TRI-GLAZED LOW E ARGON WINDOWS
- REPLACE EXISTING DOORS
- INSTALL AIR TIGHT, VAPOUR OPEN WRB. AIR AND WATER SEAL TO ATTIC, FOUNDATION, WINDOWS AND DOORS
- SLEEVE AND SEAL NEW PENETRATIONS FOR HRV SUPPLY AND EXHAUST, HEAT PUMP LINESET, AND EXISTING RIM PENETRATIONS FOR HOSE BIBS ETC
- INSTALL RAIN SCREEN STRAPPING AND SIDING BACKING
- INSTALL NEW SIDING

SEAL NEW WRB TO ATTIC SPRAY FOAM

NEW HIGH PERFORMANCE TRI-GLAZED LOW E ARGON WINDOWS. SEALING DETAILS TO BE CONFIRMED AFTER WINDOW SELCTION

- ORIGINAL WALL W/ PRESUMED 1 1/2" EPS
- 3" GPS OR EQUIVALENT
- VAPOUR-OPEN WRB SEALED AT ALL LAPS, PENETRATIONS, AND INTERSECTIONS WITH FOUNDATION AND ATTIC FOR AIR AND WATER TIGHTNESS
- 3/4" (1X4) RAIN SCREEN BATTENS
- SIDING

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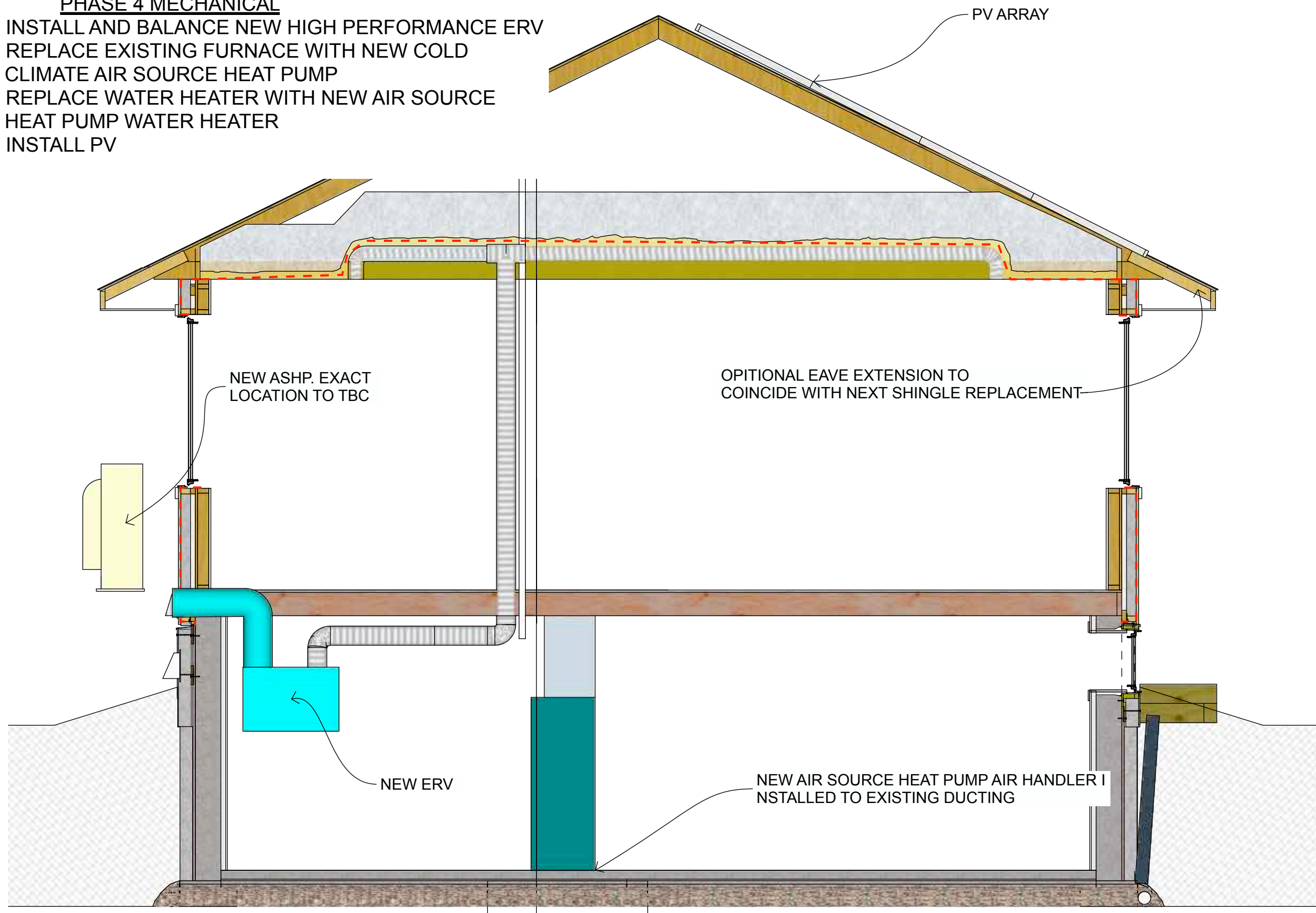
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N-S SECTION
PHASE 3 WALLS

PHASE 4 MECHANICAL

- INSTALL AND BALANCE NEW HIGH PERFORMANCE ERV
- REPLACE EXISTING FURNACE WITH NEW COLD CLIMATE AIR SOURCE HEAT PUMP
- REPLACE WATER HEATER WITH NEW AIR SOURCE HEAT PUMP WATER HEATER
- INSTALL PV



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N-S SECTION
PHASE 4
MECHANICAL