

This checklist is to be used on an individual project basis and may be modified by the applicant to meet the needs of their specific project. The applicant shall strike out those sections that are not applicable to their project and indicate the location of where this information is located. The applicant and property owner assume all responsibility associated with the use of this document.

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

[illegible]

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CAL GREEN RESIDENTIAL MANDATE MEASURES EFFECTIVE JANUARY

DATE:

SCALE:

JOB NO.

SQ. FT.

DRAWN BY: R

REV	DATE
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REV.	DATE

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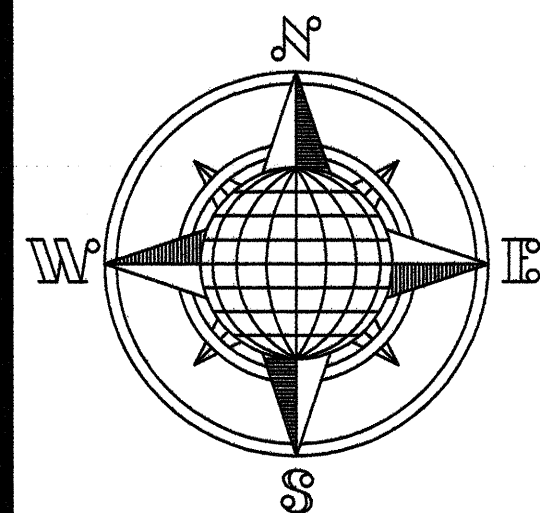
SHEET

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2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

[illegible]

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CAL GREEN
RESIDENTIAL MANDATORY
MEASURES
EFFECTIVE JANUARY 1, 2025

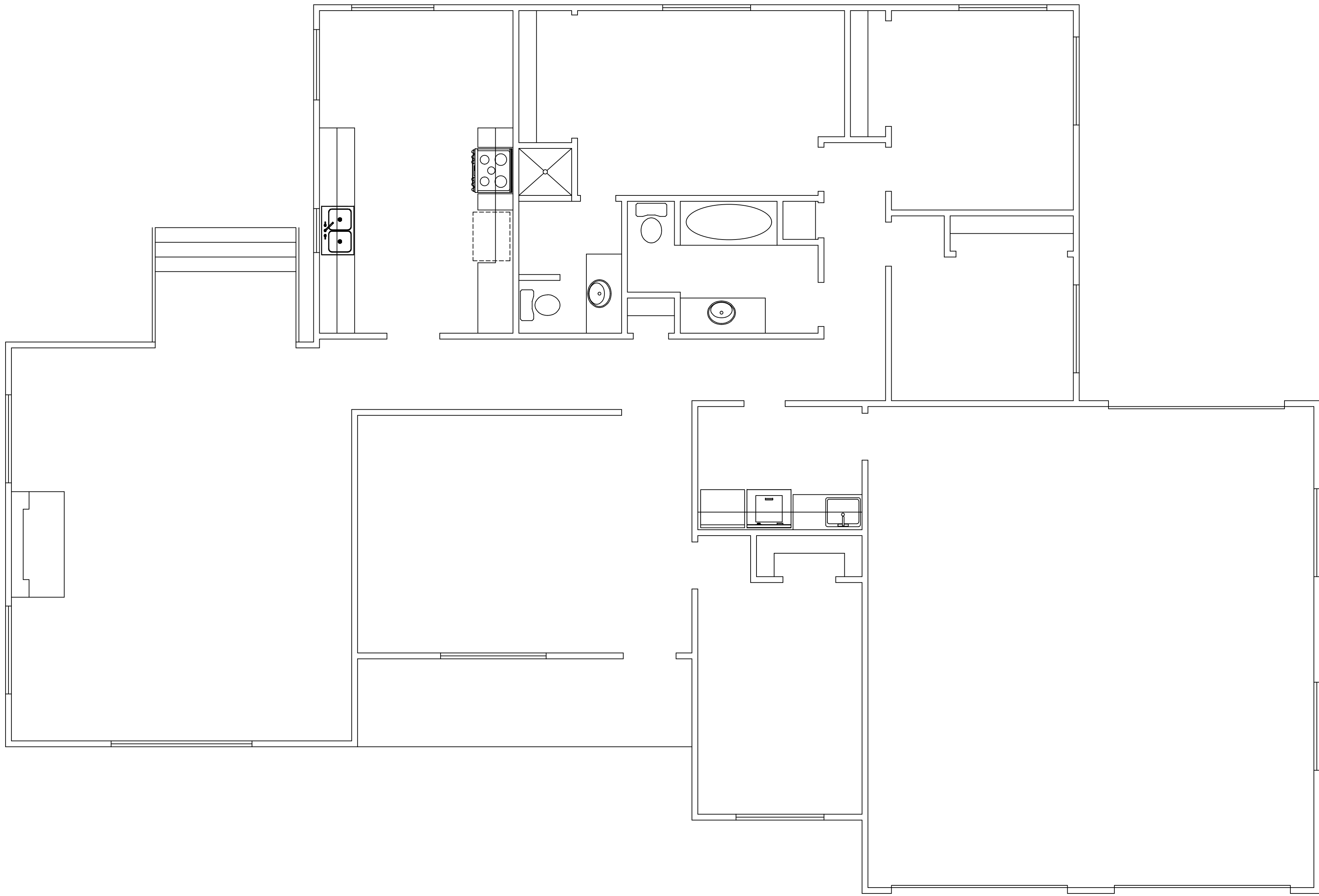
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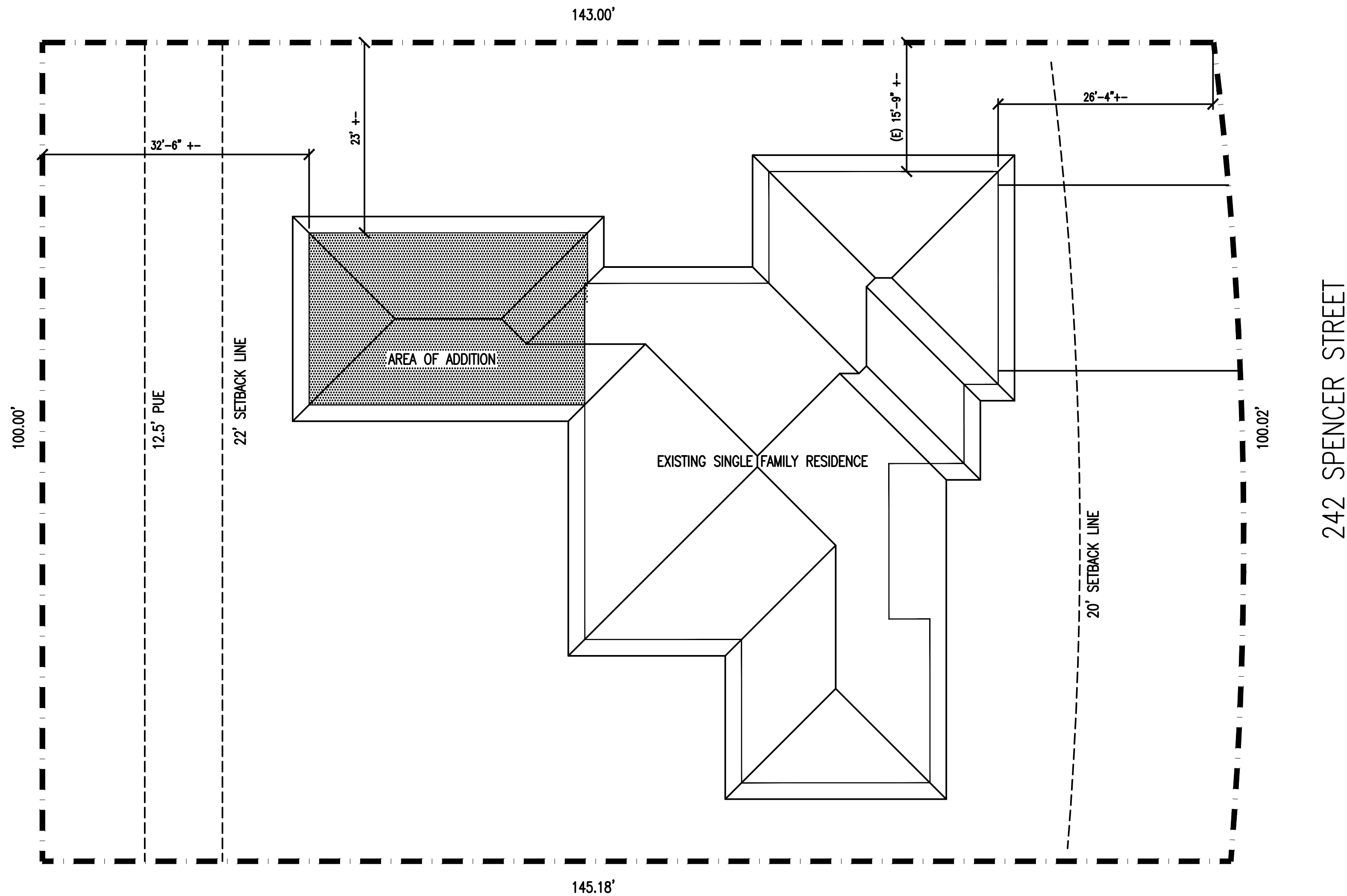
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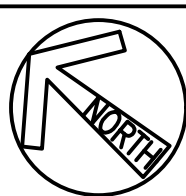
EXISTING FLOOR PLAN

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



SITE PLAN

SCALE: 1" = 10'-0"



GENERAL NOTES:

- ALL HOSE BIBBS TO BE EQUIPPED WITH ANTI-SIPHON VALVES.
- ALL PLUMBING WALLS TO BE 2x6.
- ALL TRADES TO PROVIDE BACKING AS REQUIRED.
- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME OF INSPECTION.
- TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MINIMUM OF 3'-0" FROM PROPERTY LINES OF OPENINGS INTO BUILDING.
- INSTALL ALL FACTORY MADE FLEXIBLE AIR DUCTS ACCORDING TO THEIR INSTALLATION INSTRUCTIONS AND STANDARDS SET BY THE CODE AND USE UL 1813 TAPE.
- WATER HEATER SEISMIC STRAPS ARE TO BE LOCATED WITHIN THE UPPER AND LOWER 1/3 OF ITS VERTICAL DIMENSION, THE LOWER STRAP TO BE A MINIMUM OF 4" FROM CONTROLS.
- MINIMUM 4" BUILDING DRAIN FROM DWELLING TO STREET.
- ALL SHOWER AND TUB SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. THE VALVE TEMPERATURE SHALL HAVE A MAXIMUM SETTING OF 120 DEG. (40 DEG. C).
- ALL DUCT WORK SHALL USE PRESSURE-SENSITIVE TAPE. MASTICS, AEROSOL SEALANTS OR OTHER CLOSURE SYSTEMS MEETING APPLICABLE UL 18A &B REQUIREMENTS. DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL BE EITHER STAINLESS STEEL WORM DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES. IN ADDITION, DRAWBANDS MUST HAVE A TENSILE STRENGTH RATING OF 150 LBS. AND BE TIGHTEN AS RECOMMENDED BY THE MANUFACTURE.
- ALL EGRESS WINDOWS TO HAVE A MINIMUM 20" CLEAR WIDTH AND A MINIMUM 24" CLEAR HEIGHT WITH A MINIMUM 5.7 SQUARE FEET OF OPENING AND A MAXIMUM FINISH SILL HEIGHT OF 44".
- ALL PLUMBING VENTS THROUGH ROOF SHALL BE COMBINED TO A MINIMUM NUMBER OF ROOF PENETRATIONS.
- PROVIDE FIRESTOPS AT PENETRATIONS AND CONCEALED SPACES.
- DUCTS PENETRATING SEPARATION WALL SHALL BE CONSTRUCTED OF NOT LESS THAN 26 GA. GALVANIZED STEEL AND BE CONTINUOUS WITHOUT OPENINGS OR NON-METALLIC CONNECTIONS.
- ALL PLUMBING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE METALLIC AND EXTEND A MINIMUM 12" FROM WALL (INCLUDING TRAP WHERE APPLICABLE) AND SHALL BE SEALED SO THAT GASES CANNOT PASS THROUGH.
- PROVIDE A SMOOTH METAL DUCT FOR THE DRYER EXHAUST, EXTENDING OUTSIDE WITH A BACKDRAFT DAMPER.
- PROVIDE A PRESSURE RELIEF VALVE WITH A DRAIN TO OUTSIDE AT THE WATER HEATER.
- ALL EXTERIOR WALLS AND TALL WALLS OVER 10'-0" SHALL BE 2x6 OF STUDS AT 16" O/C.
- THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT, VERIFY, RESOLVE AND INSTALL ALL MATERIALS AND EQUIPMENT.
- ROBERT BATES WILL NOT BE OBSERVING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE QUALITY CONTROL AND CONSTRUCTION STANDARDS FOR THIS PROJECT.

PROJECT STATISTICS:

EXISTING HOUSE: 2018 SQ. FT.
ADDITION: 714 SQ. FT.
CODES: 2019 CBC, CEC, CMC, CPC, CALIFORNIA ENERGY CODE
THE CALIFORNIA RESIDENTIAL BUILDING CODE
THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBCS)
AND ALL OTHER HEALTH AND SAFETY CODES, ORDINANCES AND REQUIREMENTS ADOPTED BY THE GOVERNING AGENCIES.
OCCUPANCY: R-3 = SINGLE FAMILY RESIDENCE, U = GARAGE
TYPE OF CONSTRUCTION: VB
FIRE SPRINKLED: NO

SCOPE OF WORK:

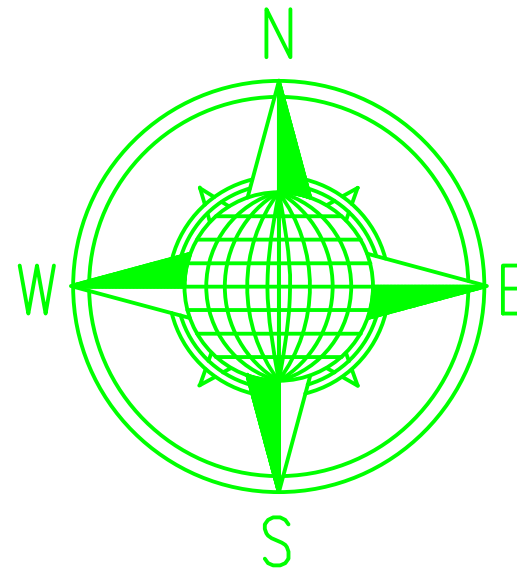
THE ADDITION OF A MASTER BEDROOM WITH BATHROOM AND WALK-IN CLOSET. ALSO THE ADDITION OF A WALK-IN CLOSET FOR EXISTING BEDROOM ADJACENT TO ADDITION.
EXISTING HVAC TO REMAIN NO CHANGE.
EXISTING WATER HEATER TO REMAIN NO CHANGE.

SHEET INDEX

SHT. NO.	DISCRPTION
1.	SHEET INDEX, SITE PLAN, GENERAL NOTES, PROJECT STATISTICS AND SCOPE OF WORK EXISTING FLOOR PLAN
2.	FLOOR PLAN AND ELECTRICAL PLAN
3.	EXTERIOR ELEVATIONS AND SECTIONS
4.	FOUNDATION, ROOF FRAMING, CEILING FRAMING AND SHEAR
SD1	STRUCTURAL NOTES
SD2	STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS
CG1	CAL GREEN RESIDENTIAL MANDATORY MEASURES
CG2	CAL GREEN RESIDENTIAL MANDATORY MEASURES
ENO	TITLE 24 ENERGY REPORT

ENERGY REQUIRMENTS

INSULATION:	NEW ATTIC: R-38 EXISTING ATTIC: R-38 ALTERED EXTERIOR WALL: R-15 FLOOR: (NEW) R-30 EXISTING FLOOR R-30 ALTERED EXISTING
WATER HEATER:	
HEATING:	EXISTING
COOLING:	EXISTING DUCTS CRAWLSPACE: R-6
GLAZING WINDOWS:	U FACTOR: = 0.30 SHGC: 0.22
GLAZING DOORS:	U FACTOR: = 0.32 SHGC: 0.22
GLAZING SKYLIGHTS:	U FACTOR: = 0.50 SHGC: 0.35
WHOLE HOUSE FAN:	CFM: ≥ 1.5 CFM/SQFT
WRAP NEW WITH TYVEK OR EQUAL.	



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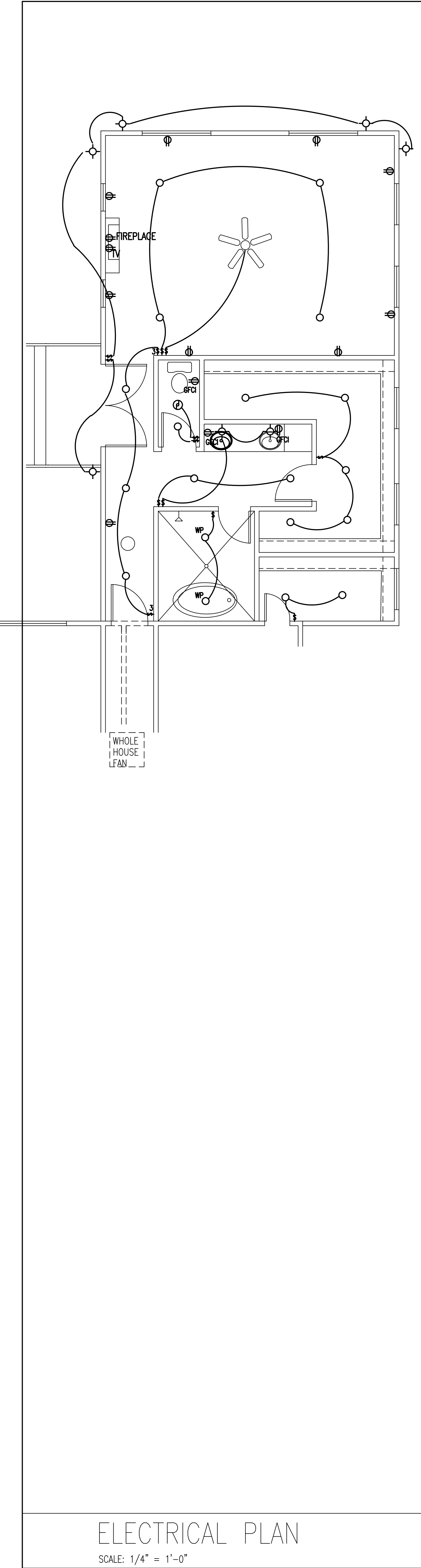
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1



ELECTRICAL LEGEND

- HIGH EFFICIENCY FLUORESCENT FIXTURE
- Ⓜ = EXHAUST FAN
- Ⓢ = SMOKE DETECTORS SHALL BE POWERED BY THE BUILDING WIRING WITH A BATTERY BACKUP. THE DETECTOR SHALL NOT BE PERMANENT AND WITHOUT A DISCONNECT SWITCH OTHER THAN THOSE REQUIRED FOR OVER CURRENT PROTECTION. DETECTORS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND AT A POINT CENTRALLY LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO EACH SEPARATE SLEEPING AREA.
- Ⓢ = CARBON MONOXIDE ALARMS SHALL BE POWERED BY THE BUILDING WIRING WITH A BATTERY BACKUP. THE ALARM SHALL NOT BE PERMANENT AND WITHOUT A DISCONNECT SWITCH OTHER THAN THOSE REQUIRED FOR OVER CURRENT PROTECTION. ALARMS SHALL BE INSTALLED IN DWELLING UNITS WITH SLEEPING ROOMS AND FUEL BURNING APPLIANCES AND IN DWELLINGS WITH ATTACHED GARAGES.
- Ⓜ = PADDLE FAN WITH LIGHT FIXTURE MIN. 7'-0" TO BLADES
- Ⓢ = SURFACE MOUNT LIGHT FIXTURE
- Ⓢ = RECESSED HIGH EFFICIENCY FIXTURE
- Ⓢ = 110V DUPLEX OUTLET
- Ⓢ = 220V OUTLET
- Ⓢ = TELEVISION OUTLET
- Ⓢ = TELEPHONE OUTLET
- Ⓢ = 1-WAY SWITCH
- Ⓢ = 3-WAY SWITCH
- Ⓢ = RHEOSTAT (DIMMER)
- Ⓢ = 220V OUTLET
- Ⓢ = WEATHER PROOF
- Ⓢ = GROUND FAULT CIRCUIT INTERRUPT

ELECTRICAL NOTES

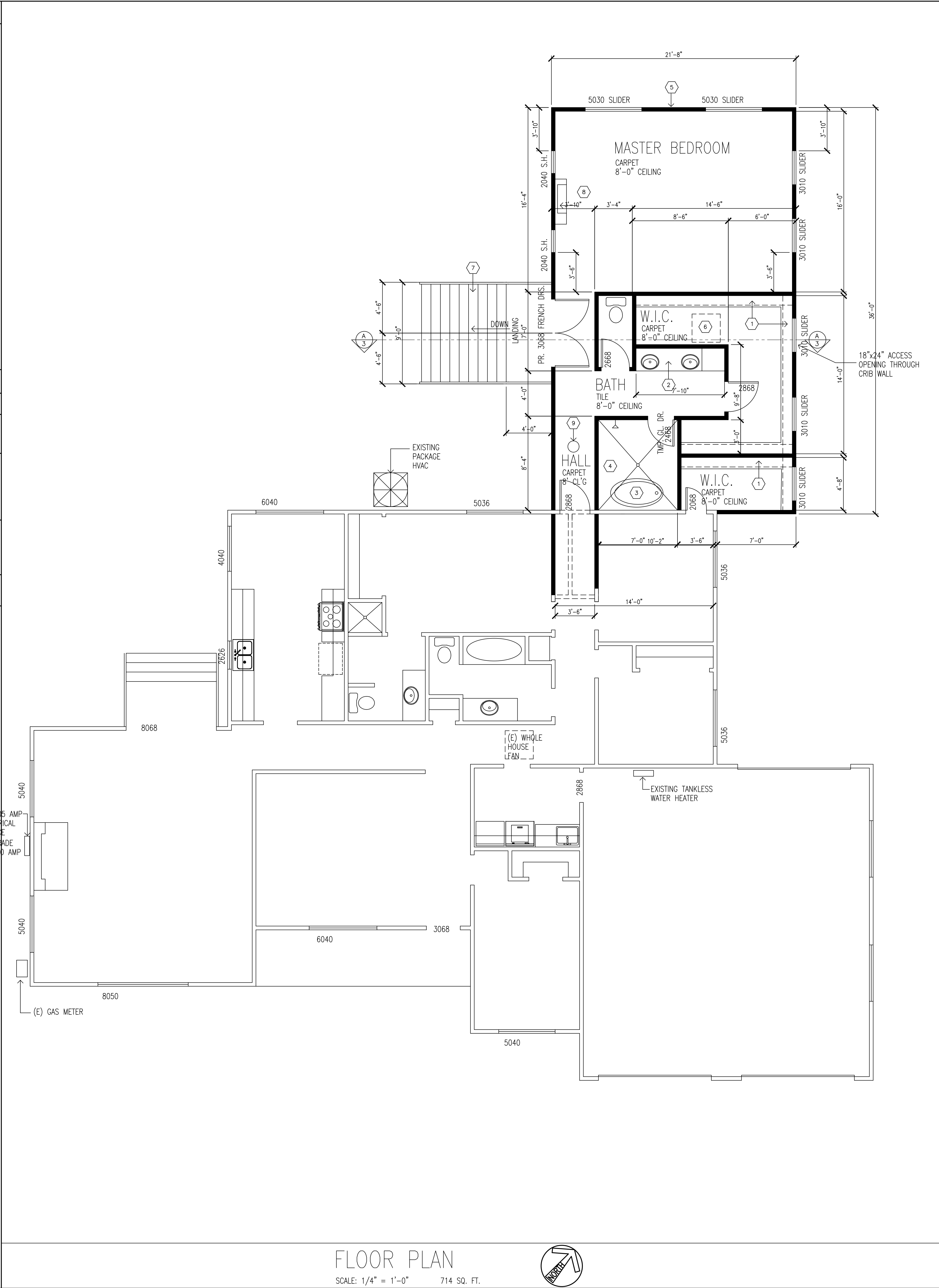
1. ALL ELECTRICAL BOXES AT PADDLE FANS TO BE APPROVED FOR PADDLE FANS.

2. PROVIDE A DEDICATED 20 AMP CIRCUIT TO SERVE THE REQUIRED BATHROOM OUTLETS WHICH DO NOT LETS ON IT.

3. PROVIDE FOR FUTURE ELECTRIC VEHICLE CHARGING CIRCUIT BY PROVIDING A 3/4" RACE-WAY OR A 3-WIRE WITH GROUND OR NM CABLE RATED AT A MINIMUM 40 AMPS FROM THE SERVICE PANEL TO A 2-GANG BOX LOCATED IN THE GARAGE IN A LOCATION ACCEPTABLE TO THE BUILDING INSPECTOR.

4. TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS, IN ALL AREAS SPECIFIED IN THE 2019 CEC ARTICLE 210.52, ALL 125V 15 AMP 20 AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES AS PER THE 2019 CEC ARTICLE 406.11.

5. ALL RECESSED LIGHT FIXTURES SHALL HAVE THERMAL PROTECTION AND BE SO IDENTIFIED. NEC 410-65.



FLOOR NOTES

- Ⓢ SHELF AND POLE ASSEMBLY.
- Ⓢ VANITY: 36" HIGH x 24" DEEP WITH TILE TOP AND SPLASH.
- Ⓢ 5'-0" FREE STANDING TUB
- Ⓢ TILE SHOWER WITH TILE WAINSCOT TO 8'-0" A.F.F. SHOWER HEAD AS SHOWN.
- Ⓢ HOSE BIBB AND LAWN IRRIGATION SYSTEM TO BE PROVIDED WITH AN ANTI-SIPHON BACK FLOW PREVENTER DEVICE.
- Ⓢ 22"x30" ATTIC ACCESS WITH MIN. 30" HEADROOM. PROVIDE 24" WIDE CATWALK x 20" MAX. TO HVAC UNIT WITH 36" WIDE WORK PLATFORM ON CONTROL SIDE.
- Ⓢ WOOD FRAMED STAIRS: STAIRS TO HAVE +34"-38" HANDRAIL ON ONE SIDE. HANDRAIL TO BE 1 1/2" MIN. TO 2" MAX. IN WIDTH, 1 1/2" FROM WALL. 7 3/4" MAX. RISER, 10" MIN. TREAD. MIN. 6'-8" HEADROOM.
- Ⓢ ELECTRIC FIREPLACE WITH TV ABOVE.
- Ⓢ 12" SOLAR TUBE SKYLIGHT

WALL LEGEND

- NEW 2x4 WALL AT 16" O/C
- EXISTING WALL TO REMAIN
- ==== WALL TO BE REMOVED

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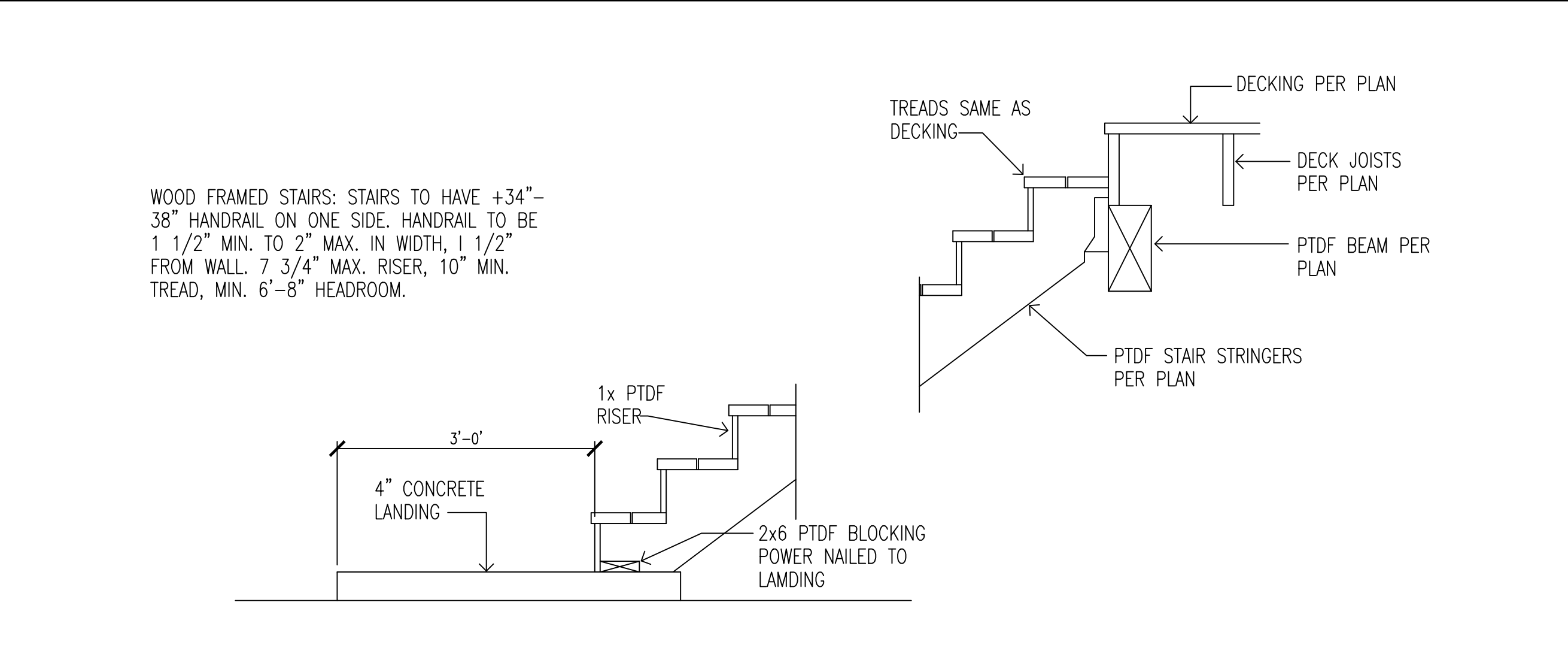
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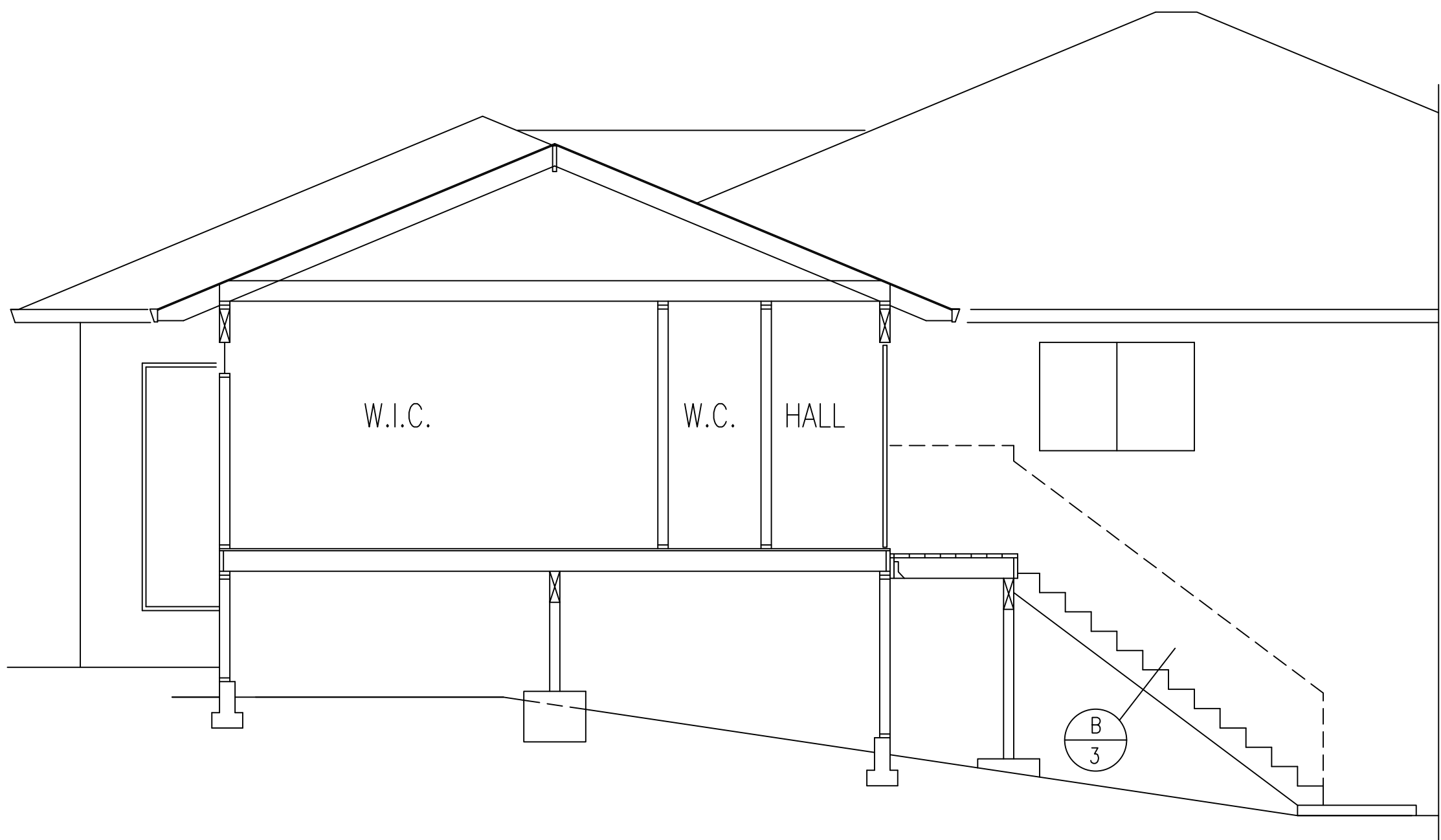
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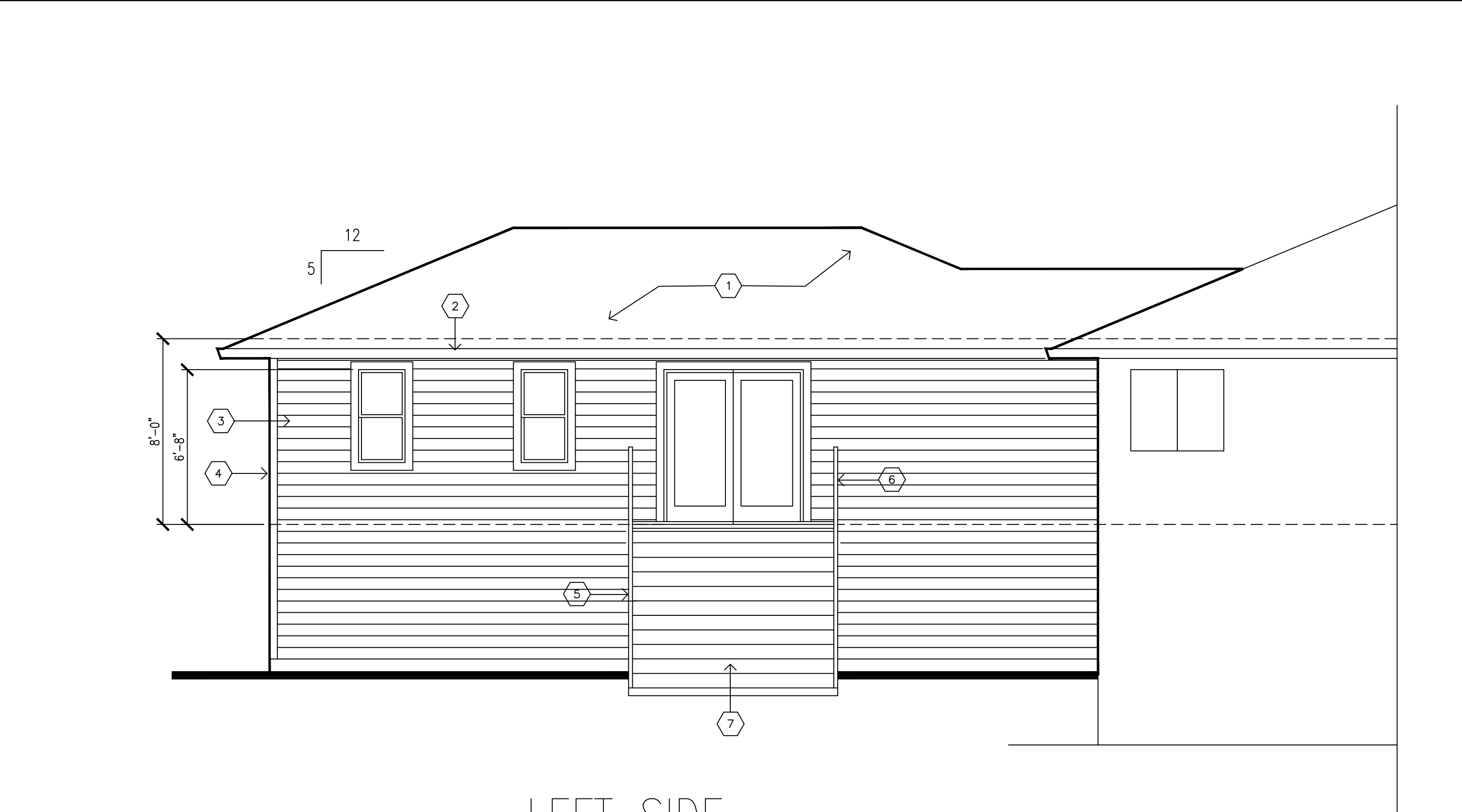
STAIR DETAILS B

SCALE: 3/4"=1'-0"

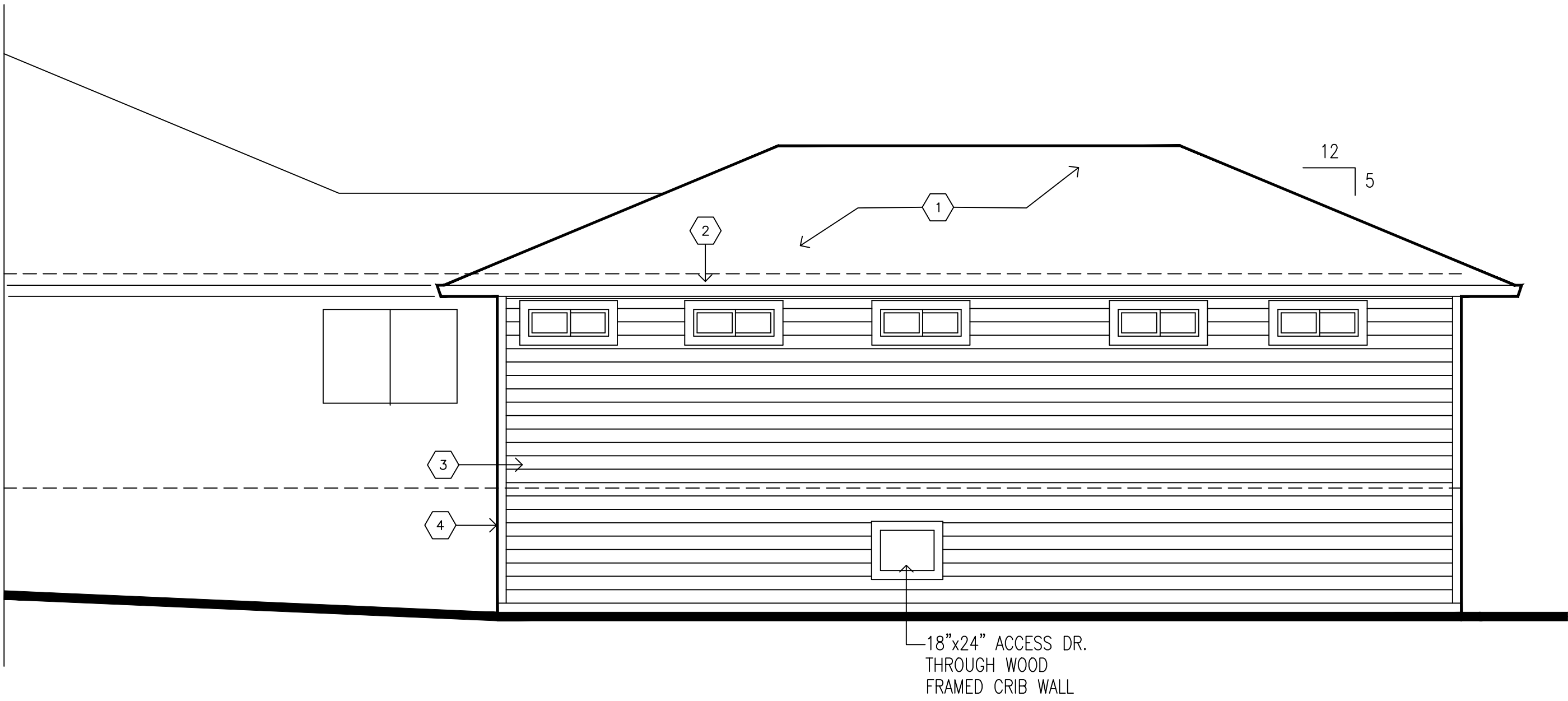


CROSS SECTION A

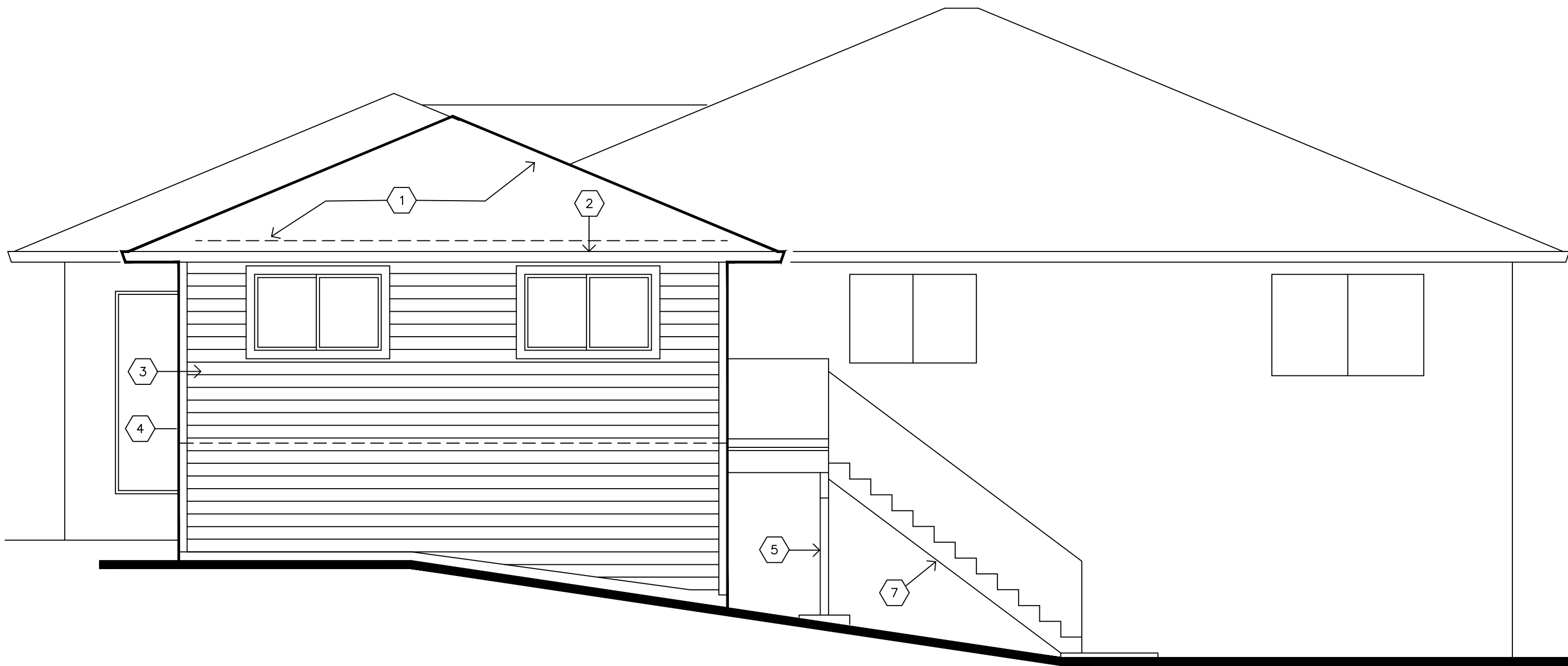
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LEFT SIDE

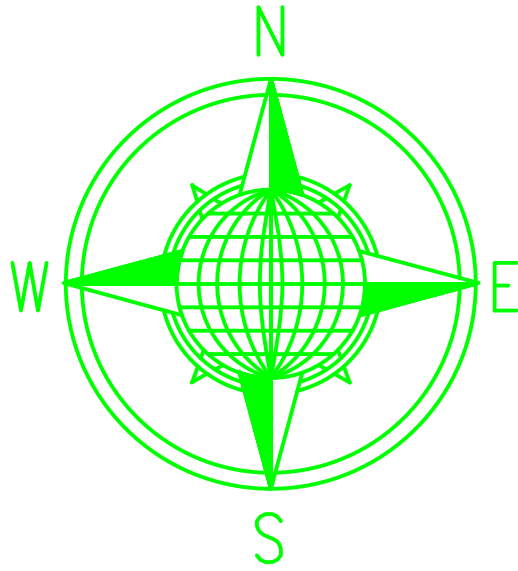


RIGHT SIDE



REAR ELEVATION

- ELEVATION NOTES:
- 1. COMPOSITION SHINGLE ROOFING INSTALLED PER MANUFACTURES SPECIFICATIONS. OVER 30# FELT
 - 2. FASCIA GUTTER AND DOWNSPOUTS.
 - 3. LAP SIDING TO MATCH EXISTING
 - 4. 2x4 TRIM TO MATCH EXISTING
 - 5. 4x4 POST
 - 6. +42" WROUGHT IRON GUARD RAIL WITH ALL OPENINGS LESS THAN 4".
 - 7. WOOD FRAMED STAIRS AND LANDING WITH WROUGHT IRON GUARD AND HAND RAIL
 - 8. COVER ALL NEW EXT. WALLS WITH 3/8" CDX STRUCT PLYWOOD OR OSB. NAIL WITH 8d's AT 6" O/C ALL PANEL EDGES, 12" O/C ALL FIELD CONTACTS UNLESS OTHERWISE NOTED. PLYWOOD SHALL RUN CONTINUOUS FROM TOP PLATE TO SOLE PLATE WITH ALL EDGES BLOCKED.



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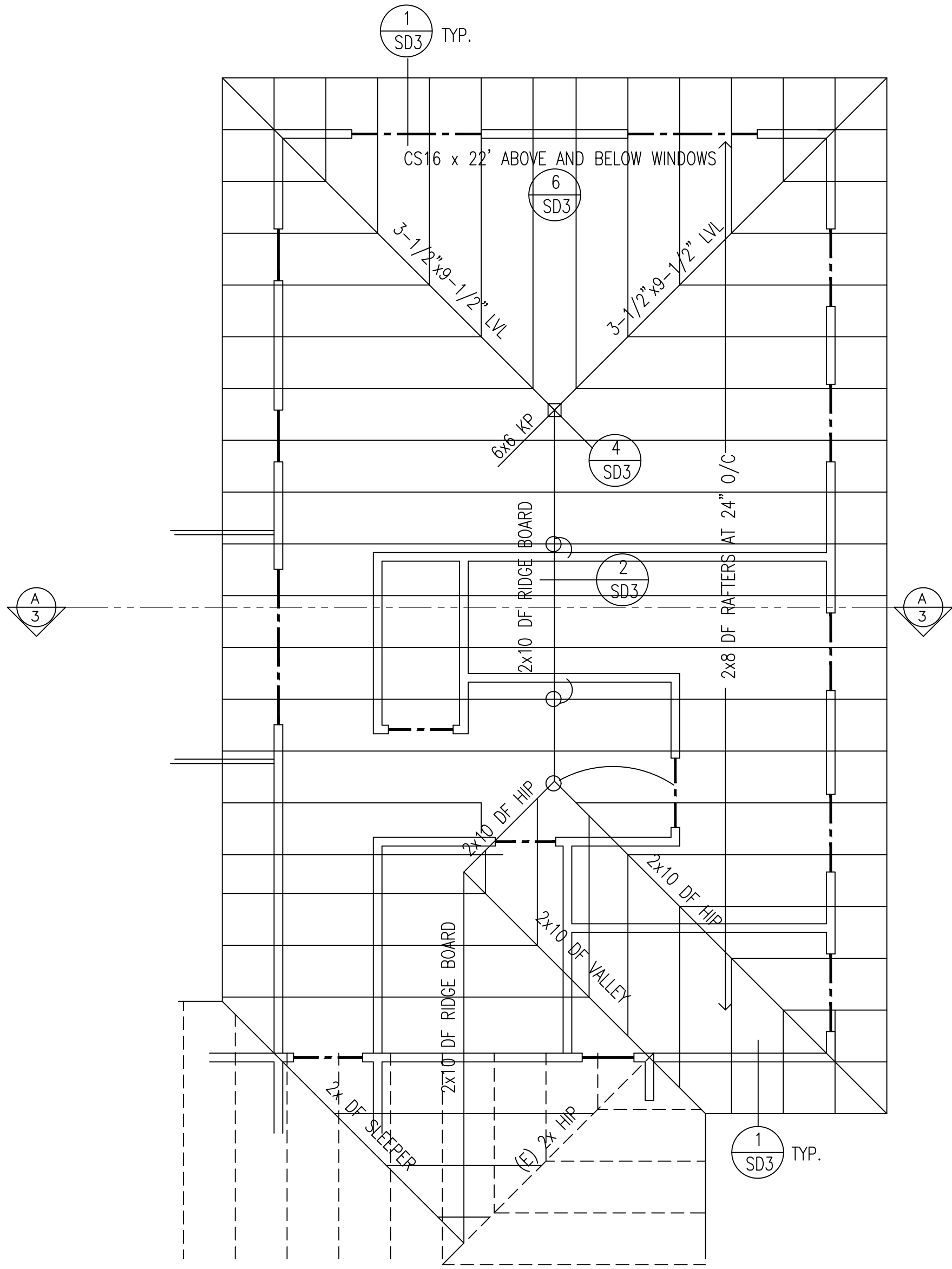
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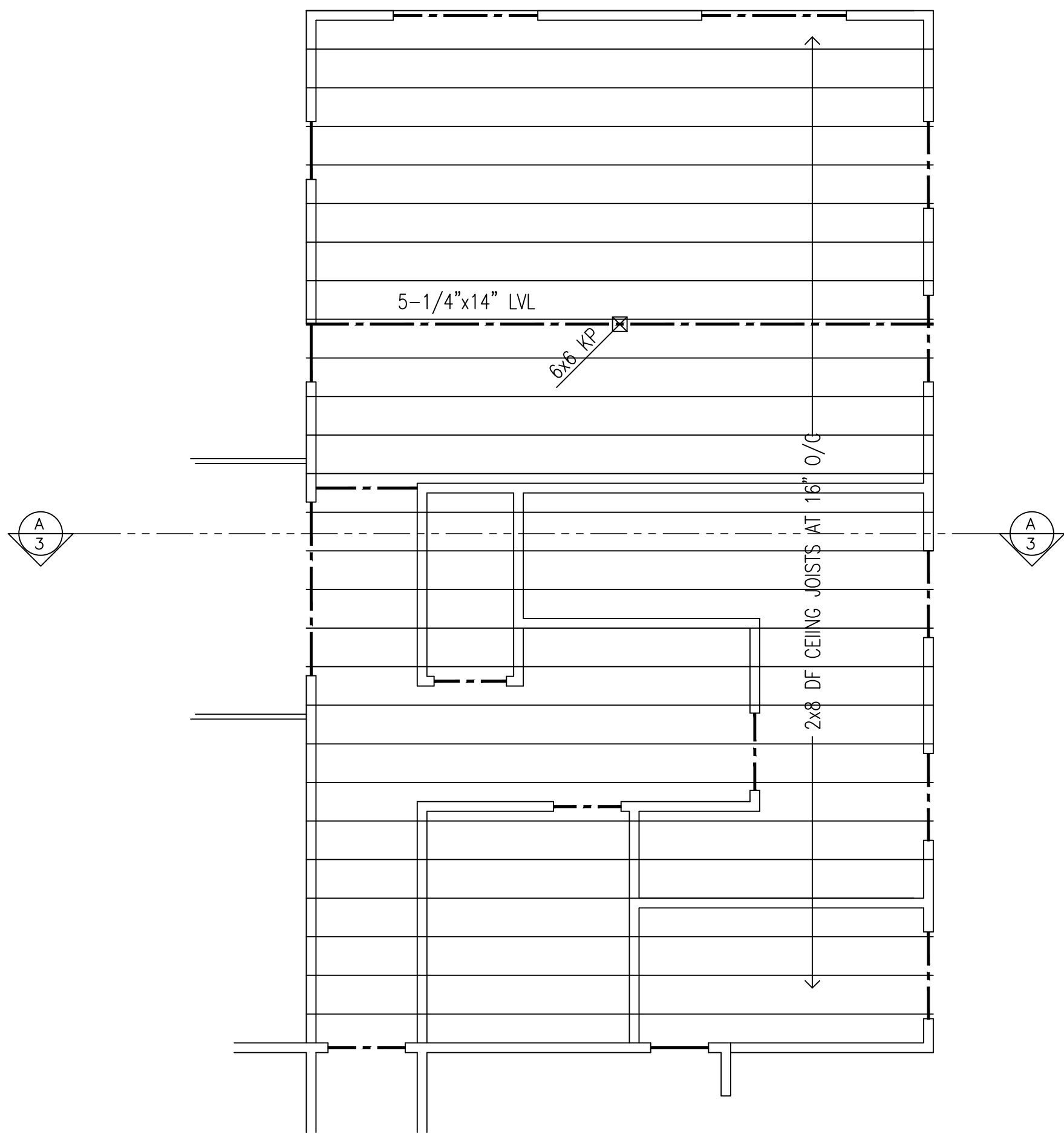
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ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



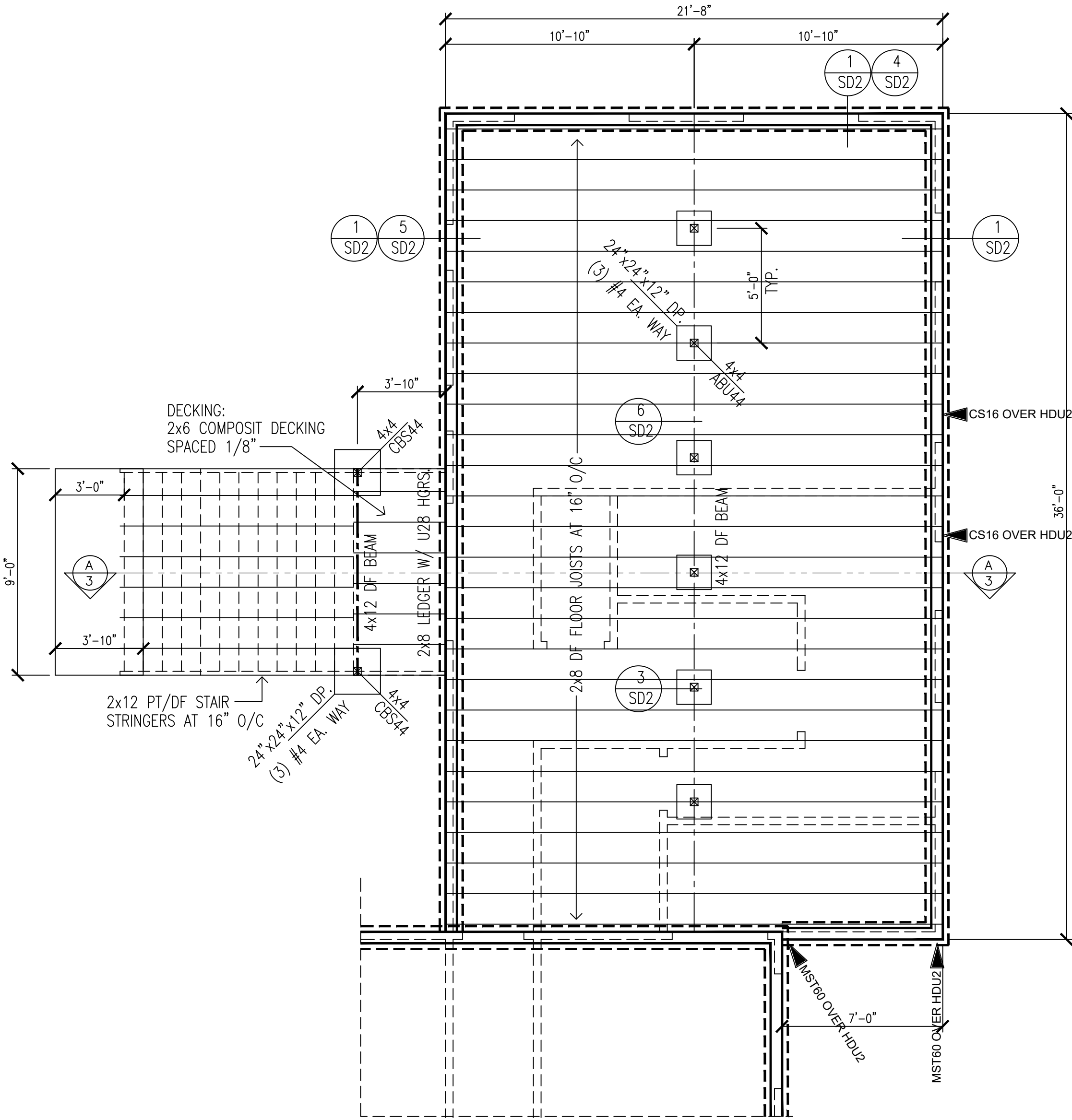
CEILING FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES:

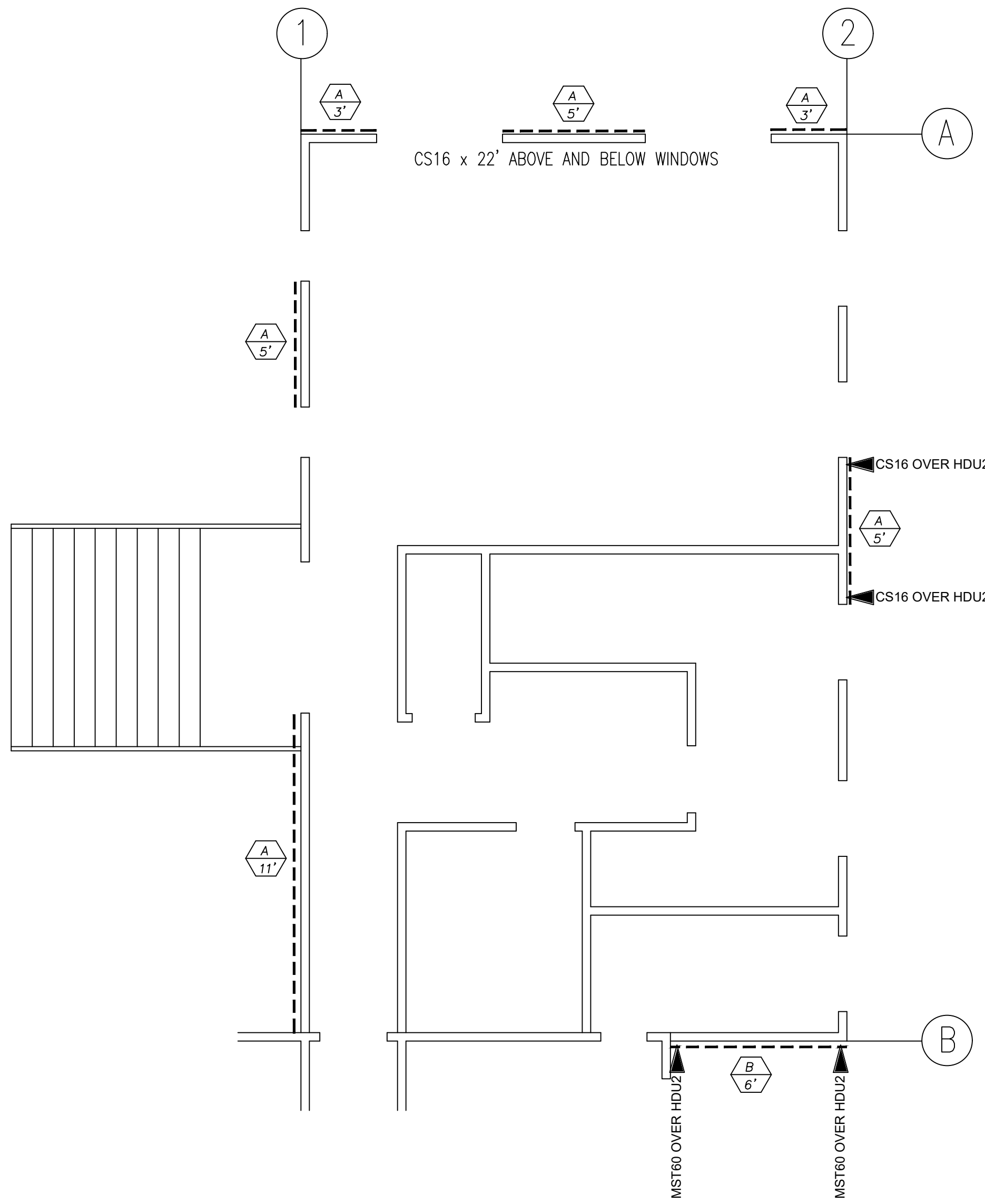
- CLASS A COMPOSITION SHINGLE ROOFING INSTALLED PER MANUFACTURES SPEC'S.
- 5 : 12 PITCH
- 24" OVERHANG AT ALL EAVES, UNLESS OTHERWISE NOTED.
- FRAME ALL ROOFS SHOWN WITH 2x8 DF RAFTERS AT 24" O/C.
- COVER ALL ROOF FRAMING WITH 1/2" CDX PLYWD. OR OSB ROOF SHEATHING. NAIL WITH 8d's AT 6" O/C ALL PANEL EDGES, 8d's AT 12" O/C ALL FIELD CONTACTS. PLACE PANELS AT RIGHT ANGLES TO SUPPORTS. PI 24/0
- SEE SN1 FOR SPECIFICATIONS AND SCHEDULES.
- USE SIMPSON H1 CLIPS AT ALL BEARING WALL TO RAFTER CONNECTIONS.
- (16) 16d COMMONS EACH SIDE 48" TOP PLATE SPLICE.

ATTIC VENTILATION

ATTIC AREA=714 SF/300=2.38 SF VENT AREA.
1.19 NEAR RIDGE, 1.19 NEAR EAVES.
4-3"x22" APPROVED EAVE VIS. AT .35 SF=1.4 SF
2-APPROVED DORMER VIS. AT .85 SF=1.7 SF
TOTAL 3.1 SF



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



SHEAR FLOOR PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

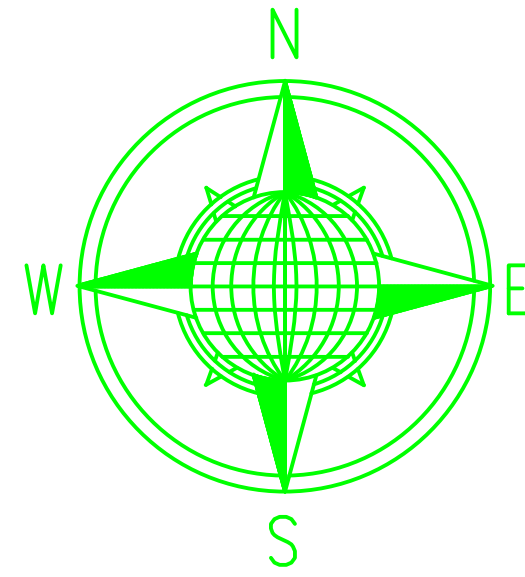
- SEE ENGINEERS DRAWINGS FOR SHEAR WALL, HOLDOWN, ANCHOR BOLT & SILL PLATE, AND FOOTING SCHEDULES.
- DESIGN SOIL PRESSURE = 1500 PSF
- MIN. CONCRETE STRENGTH AT 28 DAYS TO BE 2500 PSI
- REINF. STEEL TO CONFORM TO ASTM A615-40
- DEPTH/THICKNESS OF FOOTING INDICATES MIN. DEPTH OF BOTTOM OF FOOTING BELOW NATURAL GRADE.

FOUNDATION VENTILATION:

AREA = 714/150 = 4.76 SQ. FT. NET FREE VENT AREA
9 - 6"x14" APPROVED VENTS AT .56 SQ. FT. EACH= 5.04 SQ. FT.

HEADER SCHEDULE

LENGTH	SIZE	SUPPORT
2'-0"	6x6	SINGLE TRIMMER
3'-0"	6x8	SINGLE TRIMMER
4'-0"	6x10	SINGLE TRIMMER
5'-0"	6x12	DOUBLE TRIMMER
6'-0"	6x12	DOUBLE TRIMMER
7'-0" AND LONGER		SEE PLAN DOUBLE TRIMMER



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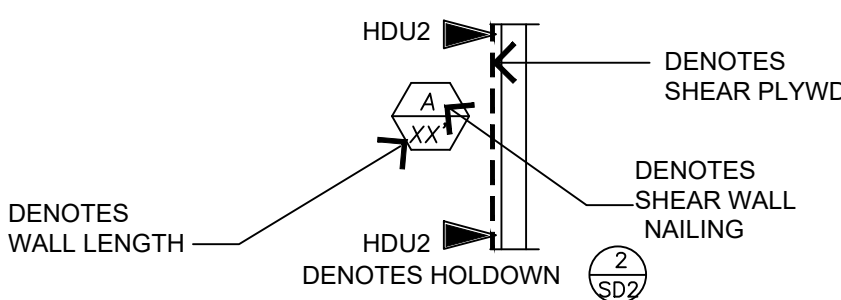
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SHEAR WALL SCHEDULE:

- A** 3/8" CDX PLYWOOD OR OSB
NAILING: 8d's SPACED 6"oc AT EDGES, 12" O.C. AT FIELD
5/8" diam. a.b. at 60" o.c. within shearwall
3" x3" x1/4" PLATE WASHERS
- B** 3/8" CDX PLYWOOD OR OSB
NAILING: 8d's SPACED 4"oc AT EDGES, 12" O.C. AT FIELD
5/8" diam. a.b. at 48" o.c. within shearwall
3" x3" x1/4" PLATE WASHERS
3 X STUDS AT ADJOINING PANEL EDGES, AND BLOCKING



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