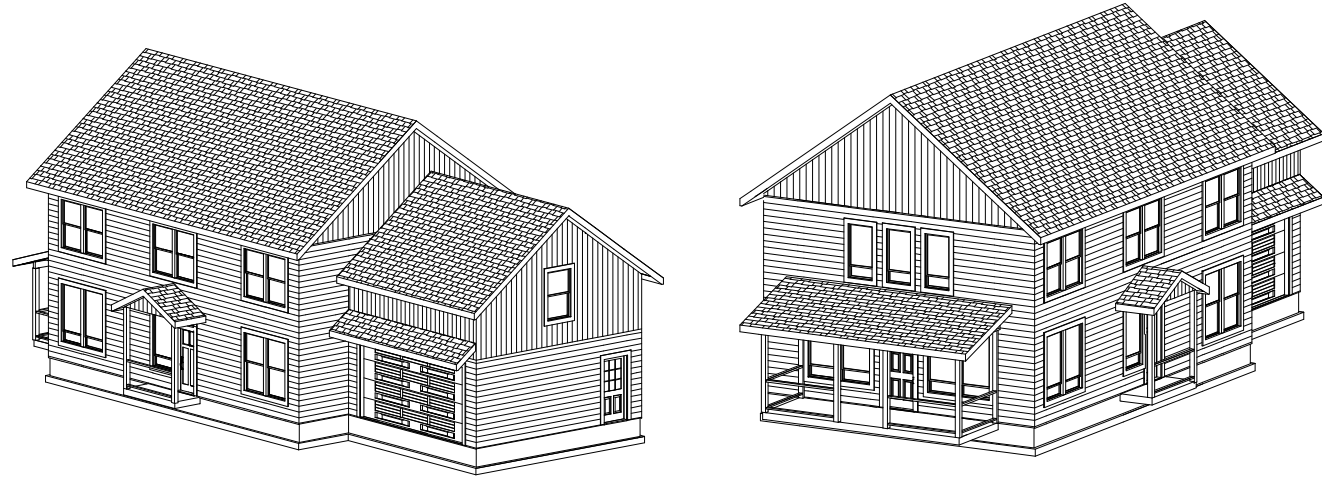


New Construction: 4 Bdrm, 3 1/2 Bath, Media, Office, 2 Car Gar, Single Family Residence



NOTE: To comply with Additional measures table N1101.1(2) Install a tankless gas or propane water heater with min. UEF 0.90

Main heat to be elec zone heating.
Secondary heat to be gas fireplace.

Water heater to be tankless.
Consult plumber RE placement.

NOTE: Top floor recessed lighting is to be in a sealed box with insulation over, OR LED disk lighting fixtures.

NOTE: Furnaces & ducting MUST be located within the heated living space, such as an insulated mechanical room.

Ducting must be placed in open-web joists between floors OR within soffits.
When using Cadet style zone heating, ALL must be placed on interior walls

NOTE: A continuous WHOLE-HOUSE mechanical ventilation system must conform to Table M1505.4.3(1) & (2)

It is recommended HRV or ERV system be designed & installed by a licensed contractor

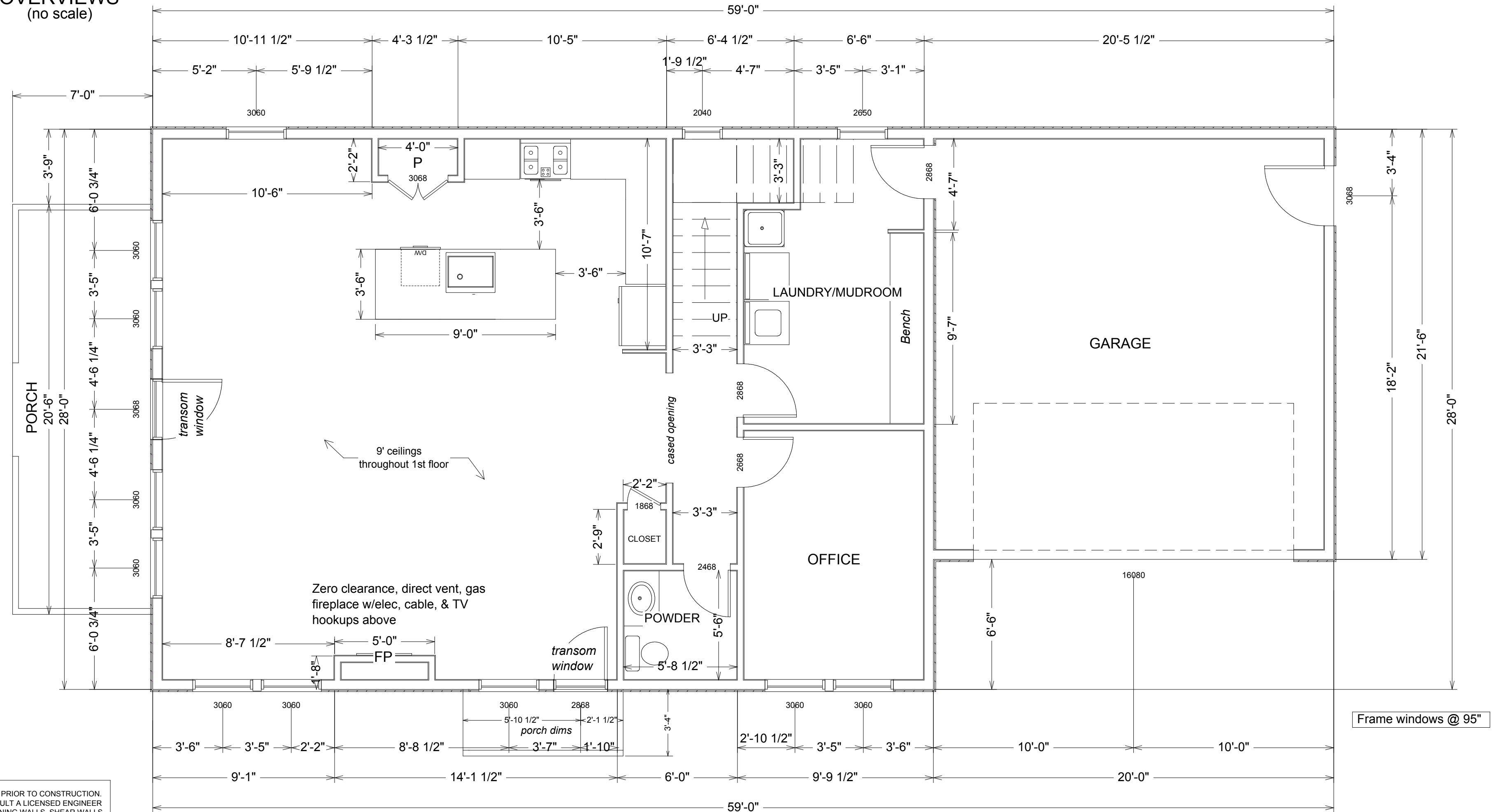
NOTE: Windows to be U-0.27

NOTE: Sealing for the purpose of creating a continuous air barrier shall be in accordance with the applicable requirements of table N1104.8, or the dwelling shall be tested to demonstrate a blower door result not greater than 4.0 ACH50.

It is recommended testing be contracted with a certified testing contractor/company. With testing performed after insulation, prior to sheetrock.

PROVIDE test reports to city (or county if located out of city), planning prior to final inspection. Test reports are recommended prior to cover to prevent complex repairs to reach compliance.

OVERVIEWS
(no scale)



1ST LEVEL FLOOR PLAN
Scale: 1/4" = 1'

NOTES:
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ALL ENGINEERING, JOIST DESIGNS, TRUSS DESIGNS, FOOTINGS & FOUNDATIONS SPECS & REQS CREATED BY ENGINEER AND/OR MANUFACTURING COMPANY. TAKE PRECEDENT OVER THESE DESIGNS. DESIGNER NOT TO BE HELD LIABLE FOR CONSTRUCTION

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P.O. Box 414, Lincoln City, OR 97367
CCB# 199761 (541) 992-4341

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C/O Olivia Beach Construction
3329 SW Hwy 101, Lincoln City, OR
(541) 921-1247

PROJECT MNGR: Erin Briggs
email: erin@oliviabeach.com
cell: (541) 992-4341

PROJECT LOCATION:
380 SW 3rd St
MAP/TAX LOT:
R3325BC 02600 LOT 2

DUNDEE Lot 2
George Ct.

1087, 1350 = 2437 g360

LOT 2

DUNDEE LOT 2

DATE: February 24, 2022

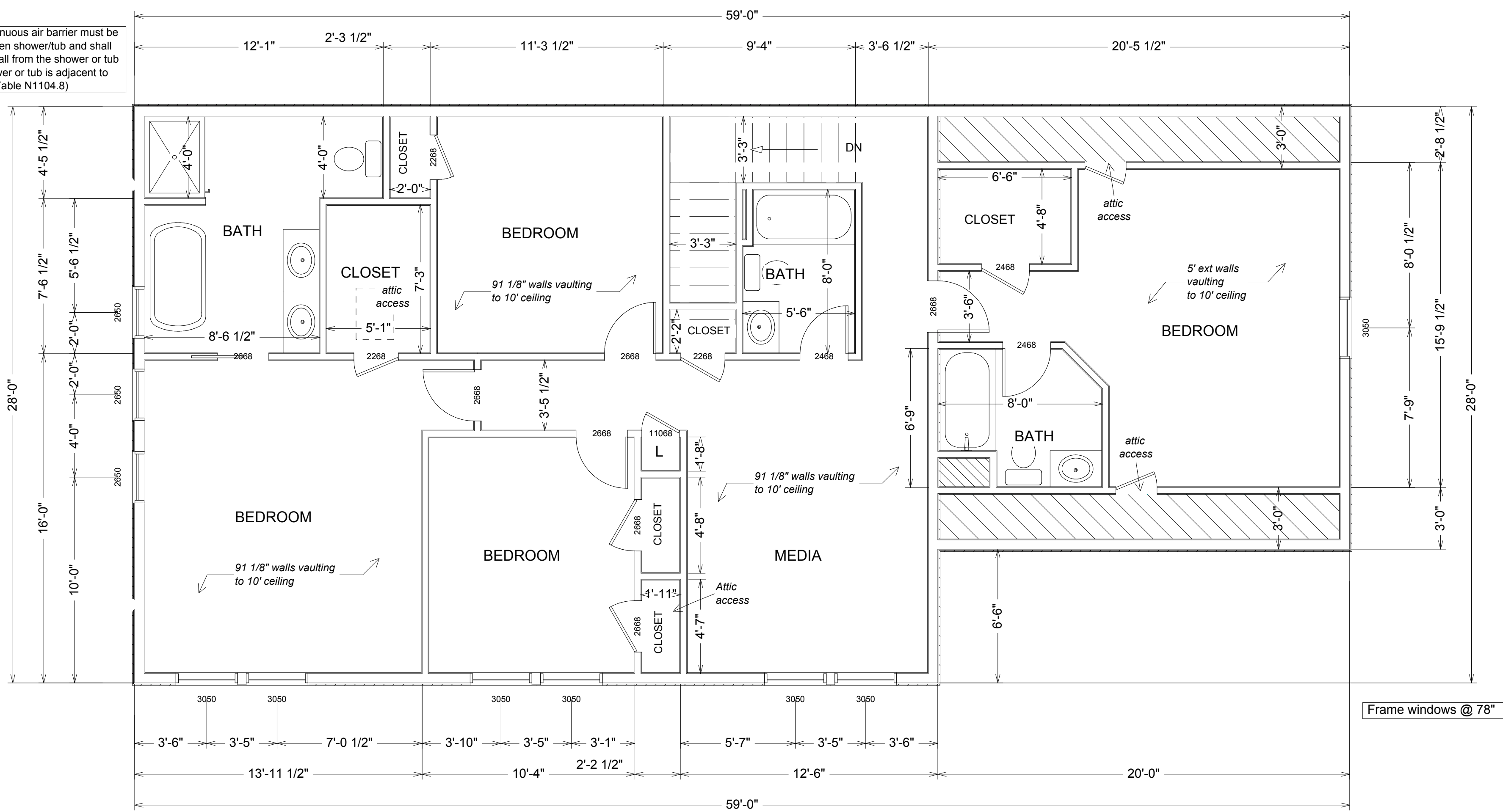
1ST LEVEL FLOOR PLAN

1a

**ALWAYS VERIFY SIZE, STYLE,
& TEMPORED PRIOR TO ORDERING**

WINDOW SCHEDULE			DOOR SCHEDULE		
QTY	FLOOR	SIZE	QTY	FLOOR	SIZE
3	2	2650	7	2	2668
1	1	2040	1	1	2468
7	2	3050	3	2	2268
1	1	2650	1	1	1868
10	1	3060	3	1	2868
PLUS TRANSOMS (2)			3	2	2468
			1	1	2668
			3	1	3068
			1	2	11068

NOTE: A continuous air barrier must be installed between shower/tub and shall separate the wall from the shower or tub whenever shower or tub is adjacent to exterior wall (Table N1104.8)



2ND LEVEL FLOOR PLAN
Scale: 1/4" = 1'

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DUNDEE Lot 2
George Ct.

LOT 2 2a

DUNDEE LOT 2

DATE: February 24, 2022

2ND LEVEL FLOOR PLAN

O.R.S.C. N1104.7
Slab-on-grade floors. For slab-on-grade floors, the perimeter of the floor shall be insulated.

The insulation shall extend downward from the top of the slab for a minimum of 24" (610 mm) or downward to the bottom of the slab, then horizontalls beneath the slab for a minimum total distance of 24" (610 mm).

EXCEPTION: For monolithic slabs, the insulation shall extend downward from the top of the slab to the bottom of the thickened edge.

REFER TO ENGINEER SPEC.S FOR LATERAL SPECIFICATIONS PRIOR TO CONSTRUCTION

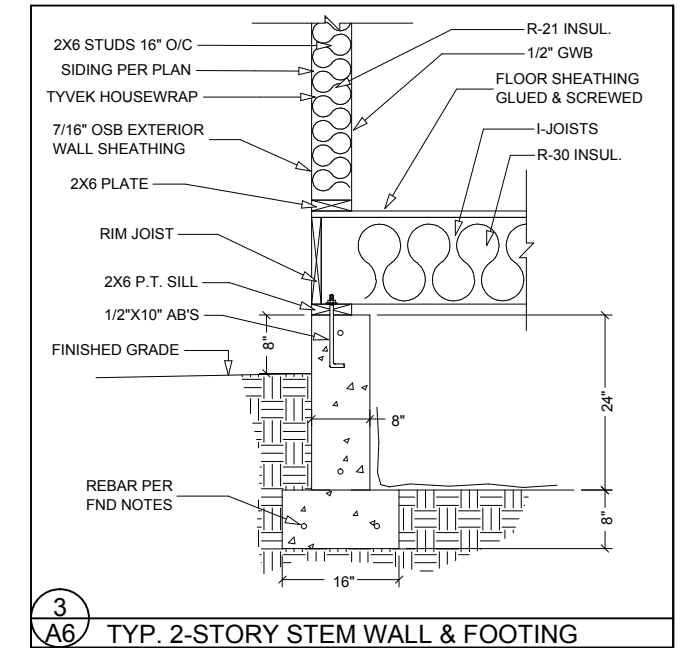
All footing and concrete wall sizes, specs & req.s to be provided by licensed engineer.

Any and all fill compaction specs & req.s to be provided by licensed engineer

ALWAYS: Engineering specs, dims, & reqs supercede these designs

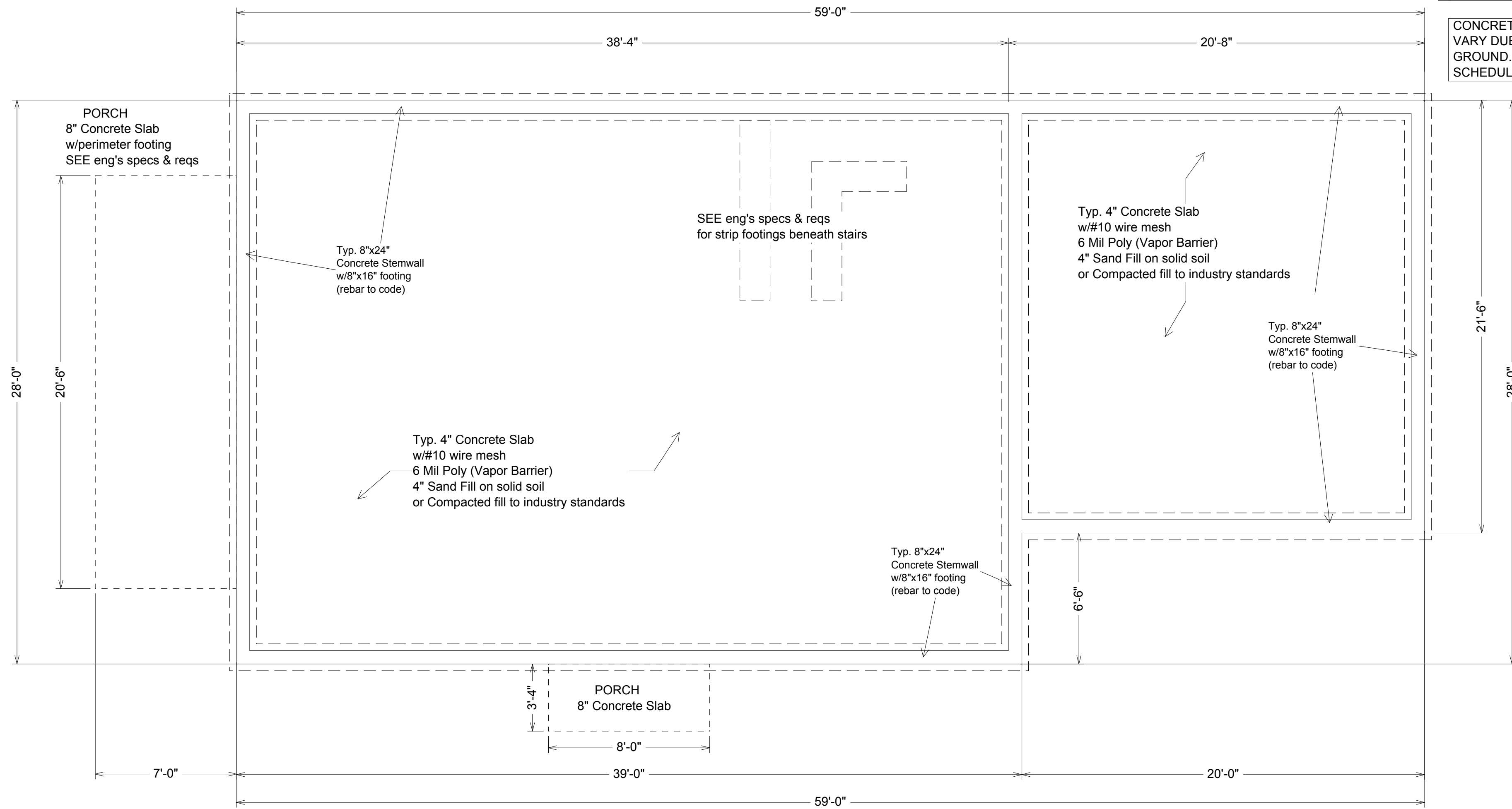
GROUNDING ROD:
One #4 rebar Min. (#5 suggested) shall be stubbed up at least 12" above floor plate line & tightly attached to rebar in footing. Splice lap stubbed up rebar to the footing bar shall be 12" min.

NOTE:
Stemwall ht may increase to 36"-48", to be determined at excavation. Footing to be constructed on undisturbed soil OR compacted to industry standards.



3
A6/ TYP. 2-STORY STEM WALL & FOOTING

CONCRETE STEM WALL HTS CAN VARY DUE TO SLOPES AND SOLID GROUND. REFER TO ENG'S SCHEDULES FOR SPECS & REQS.



FOUNDATION PLAN
Scale: 1/4" = 1'

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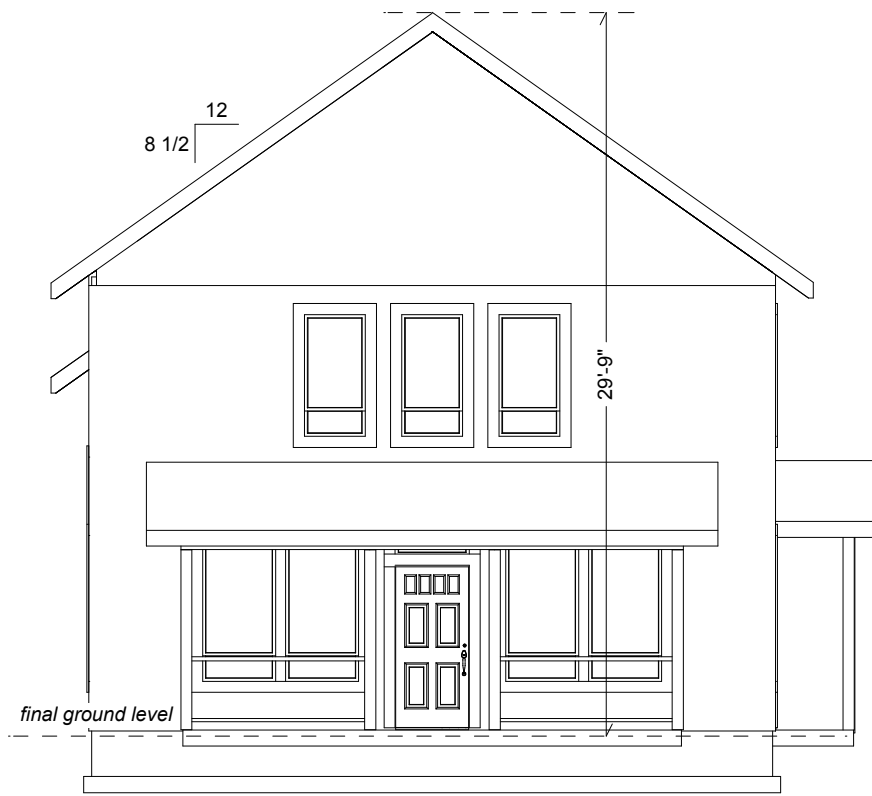
LOT 2

3a

DUNDEE LOT 2

DATE: February 24, 2022

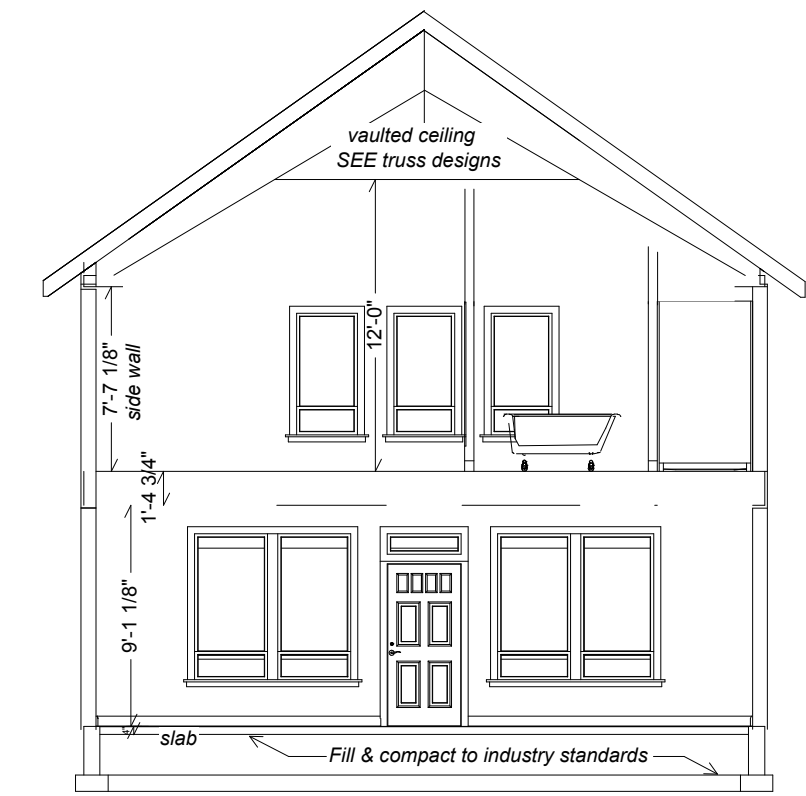
FOUNDATION



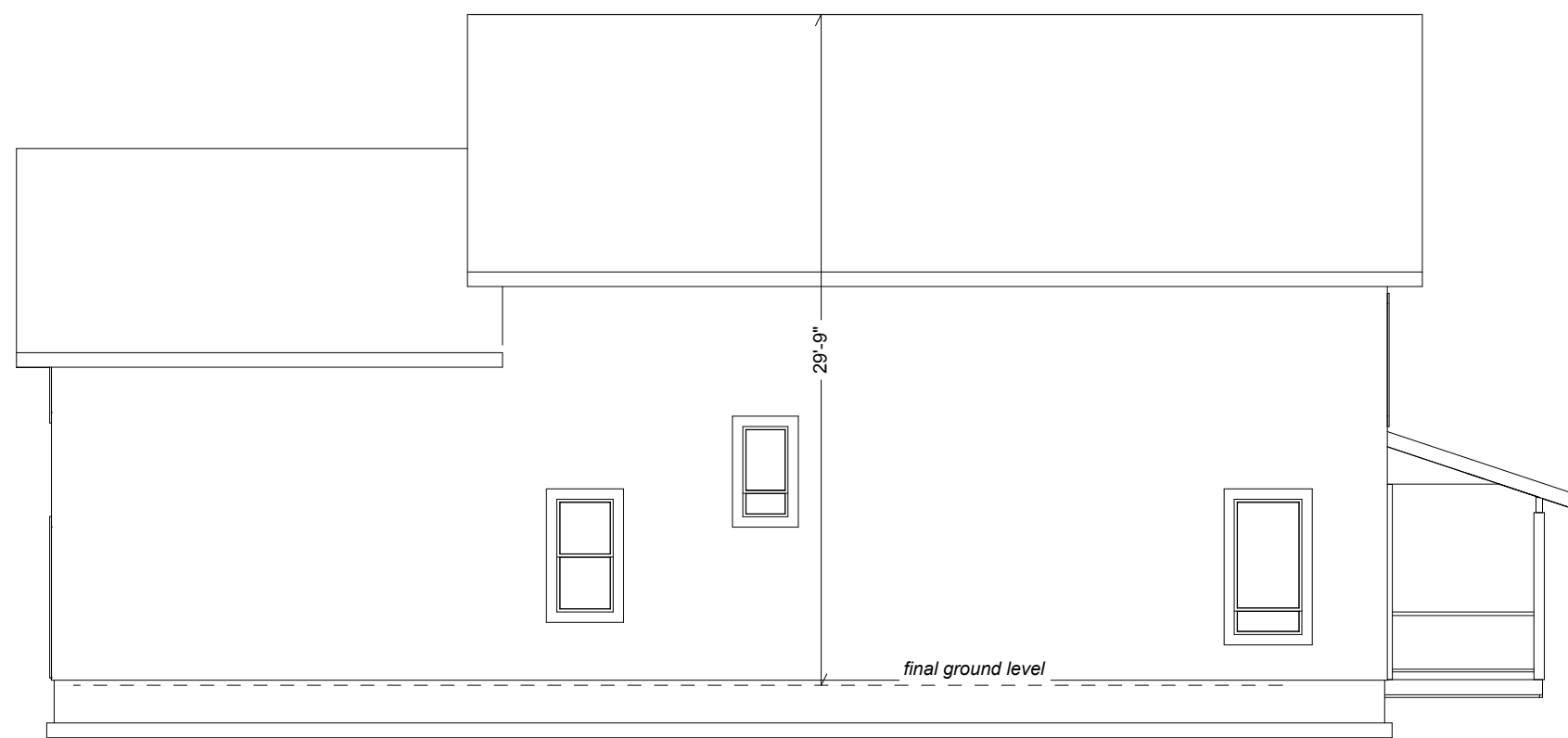
FRONT VIEW ELEVATION
Scale: 1/8" = 1'



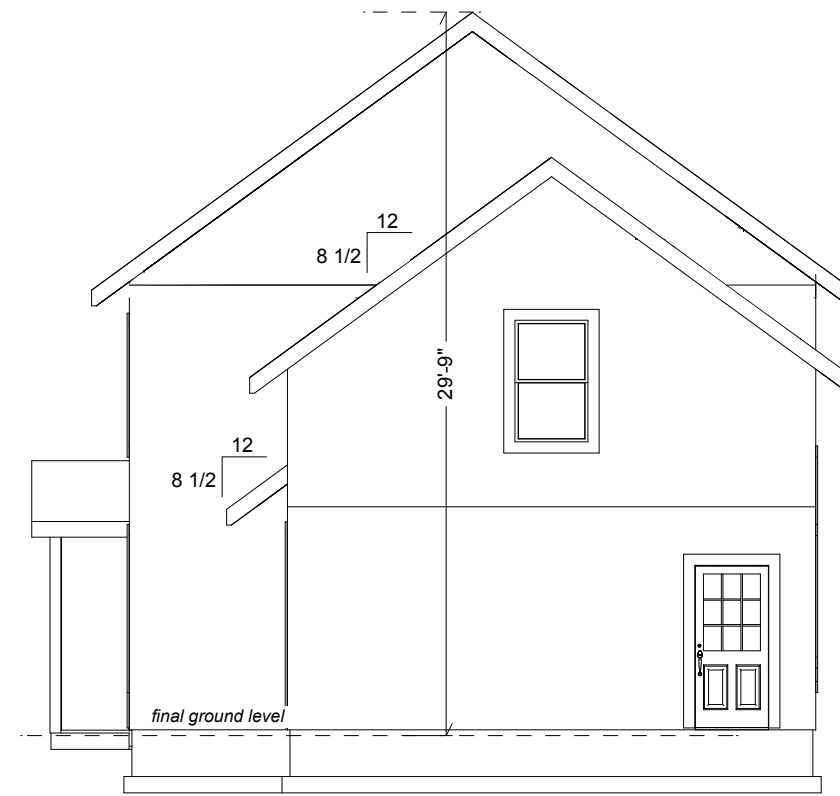
RIGHT SIDE ELEVATION
Scale: 1/8" = 1'



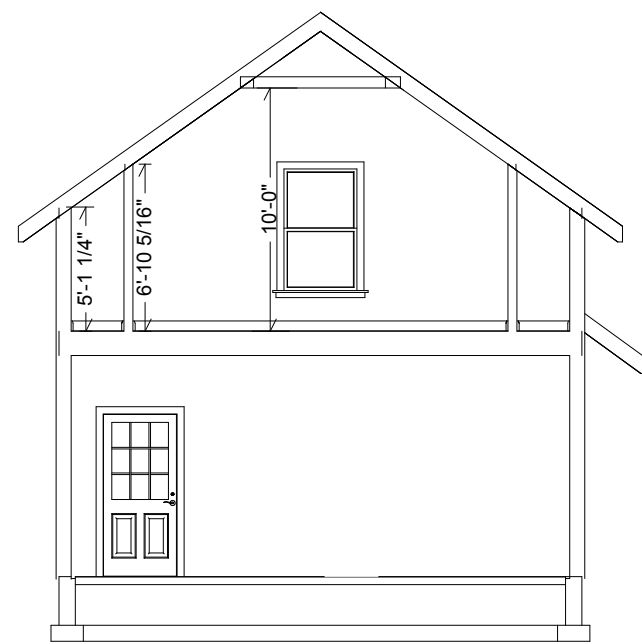
CROSS SECTION
Scale: 1/8" = 1'



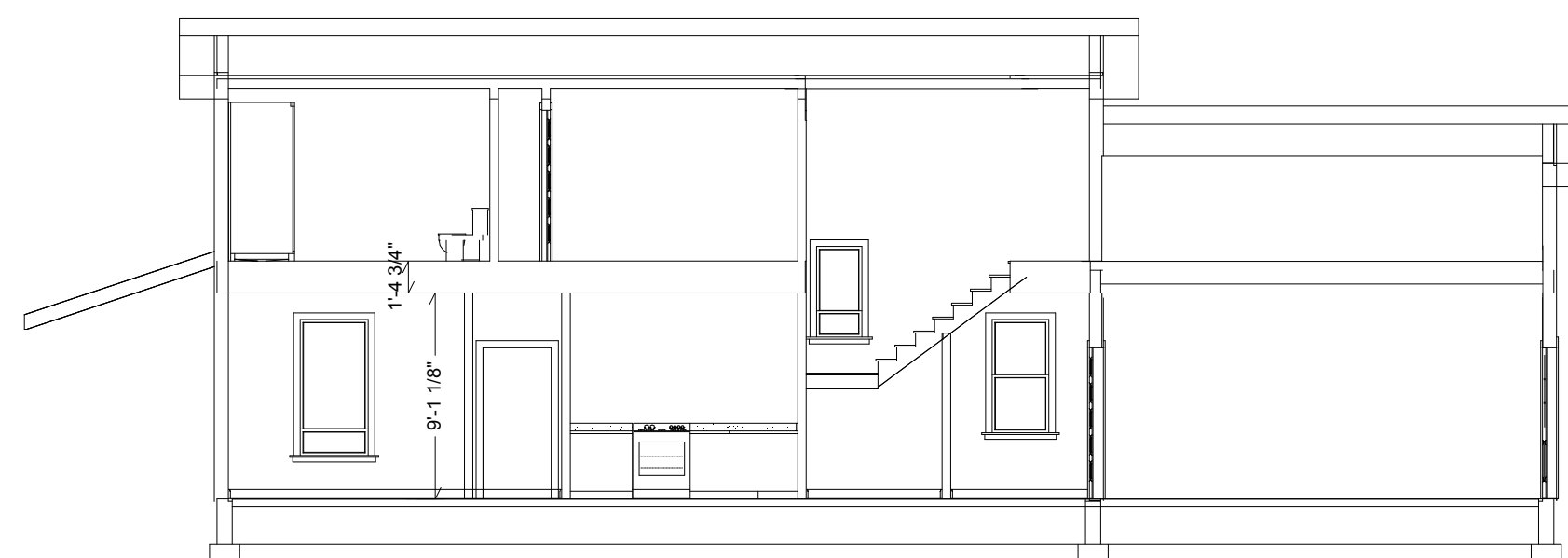
LEFT SIDE ELEVATION
Scale: 1/8" = 1'



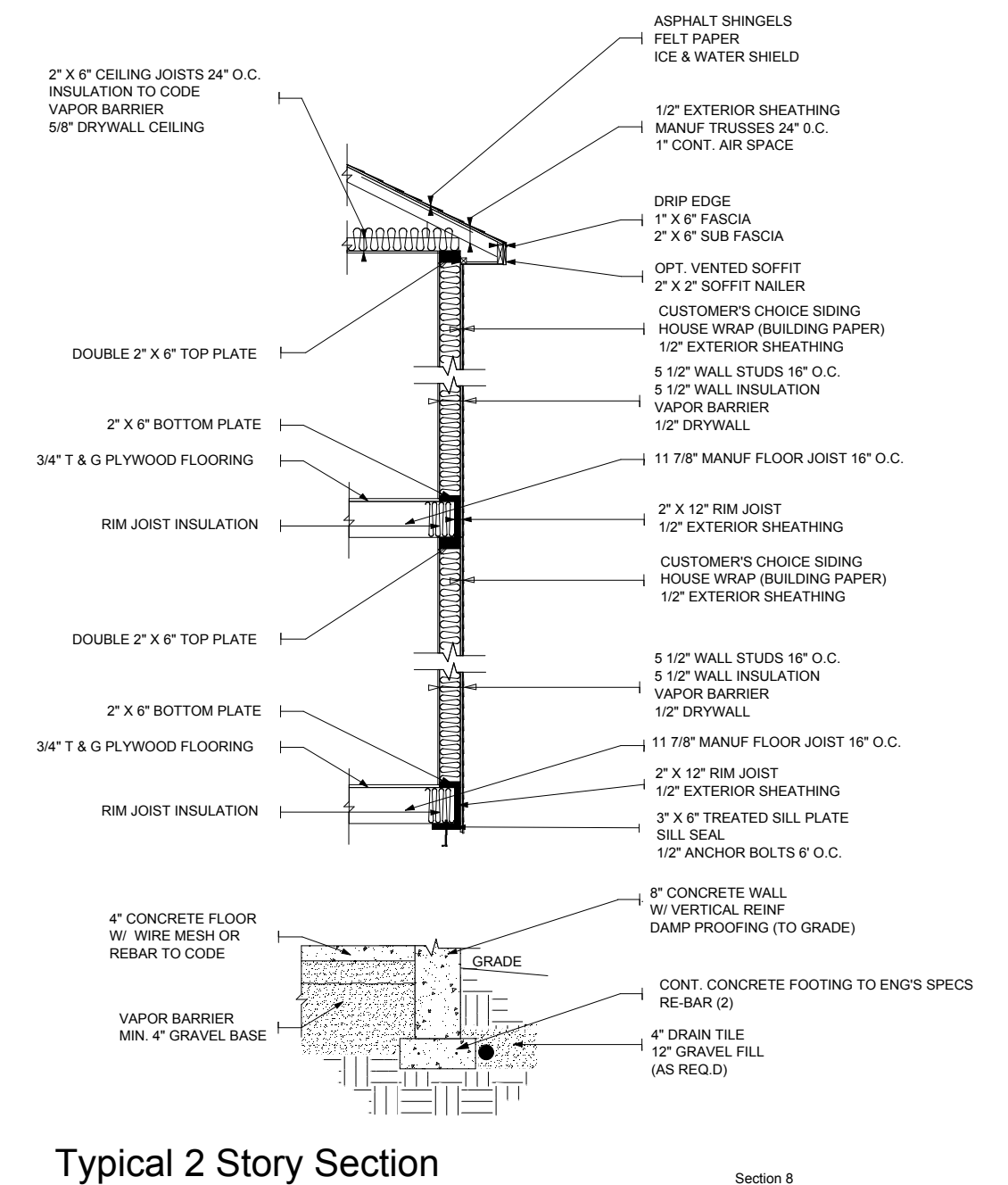
REAR ELEVATION VIEW
Scale: 1/8" = 1'



CROSS SECTION
Scale: 1/8" = 1'



CROSS SECTION
Scale: 1/8" = 1'



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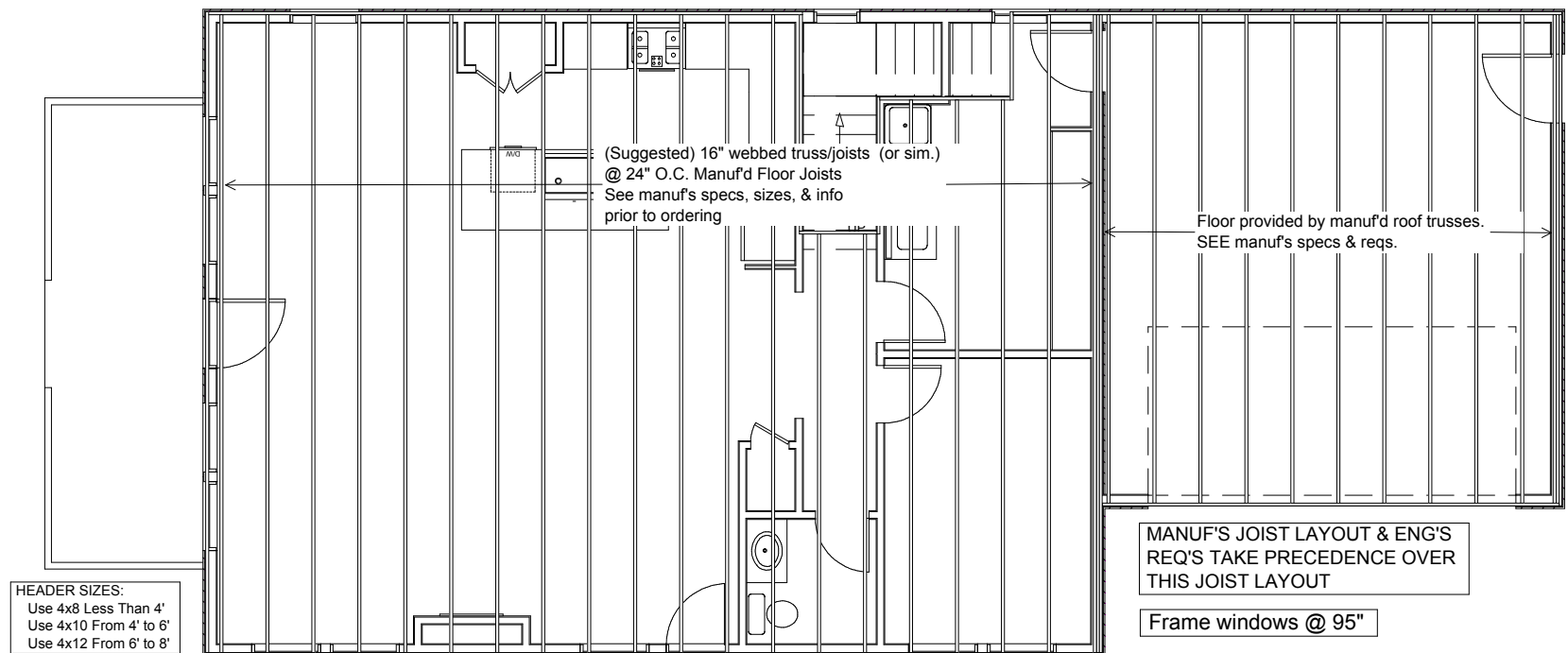
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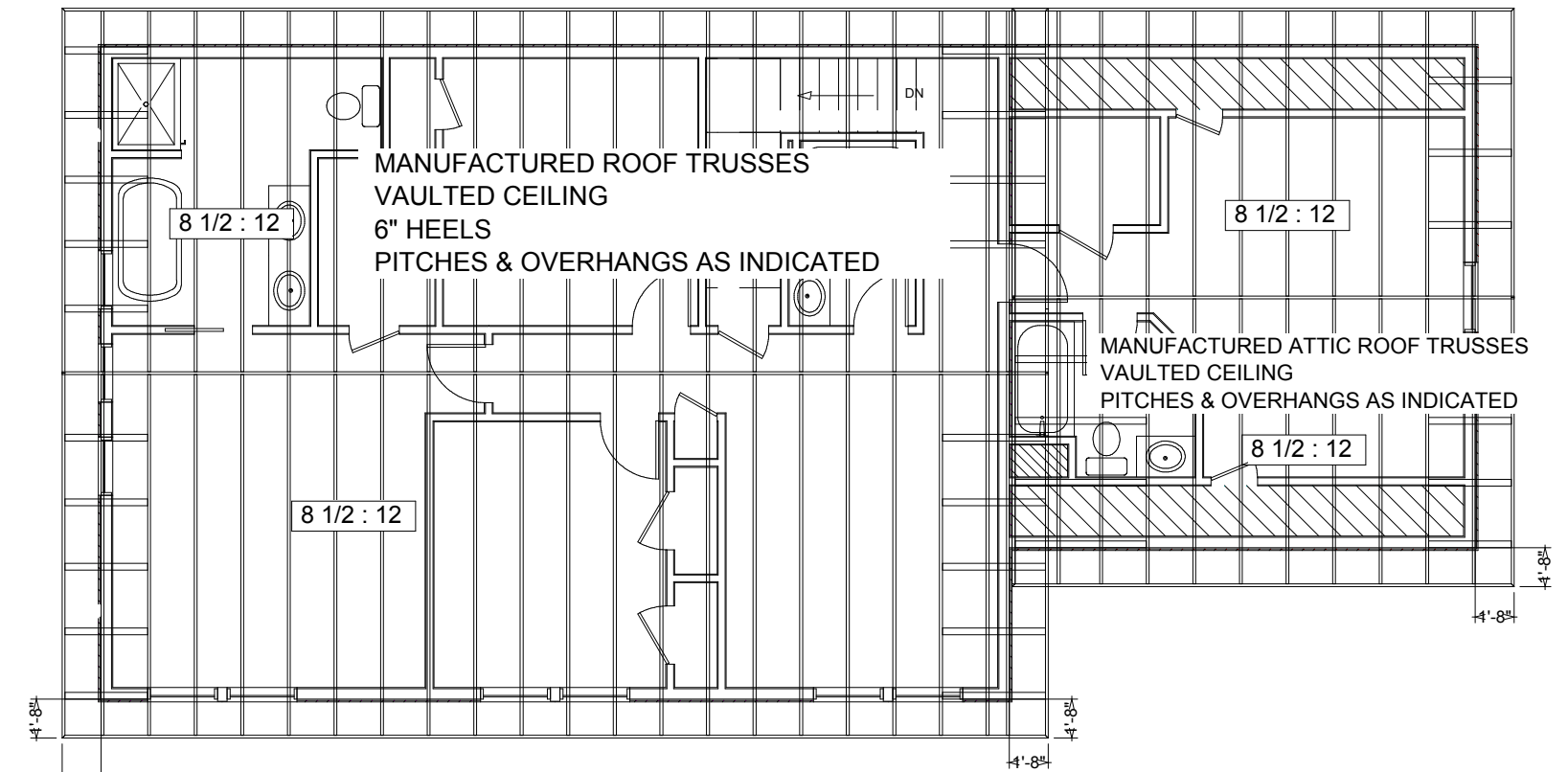
LOT 2

4a

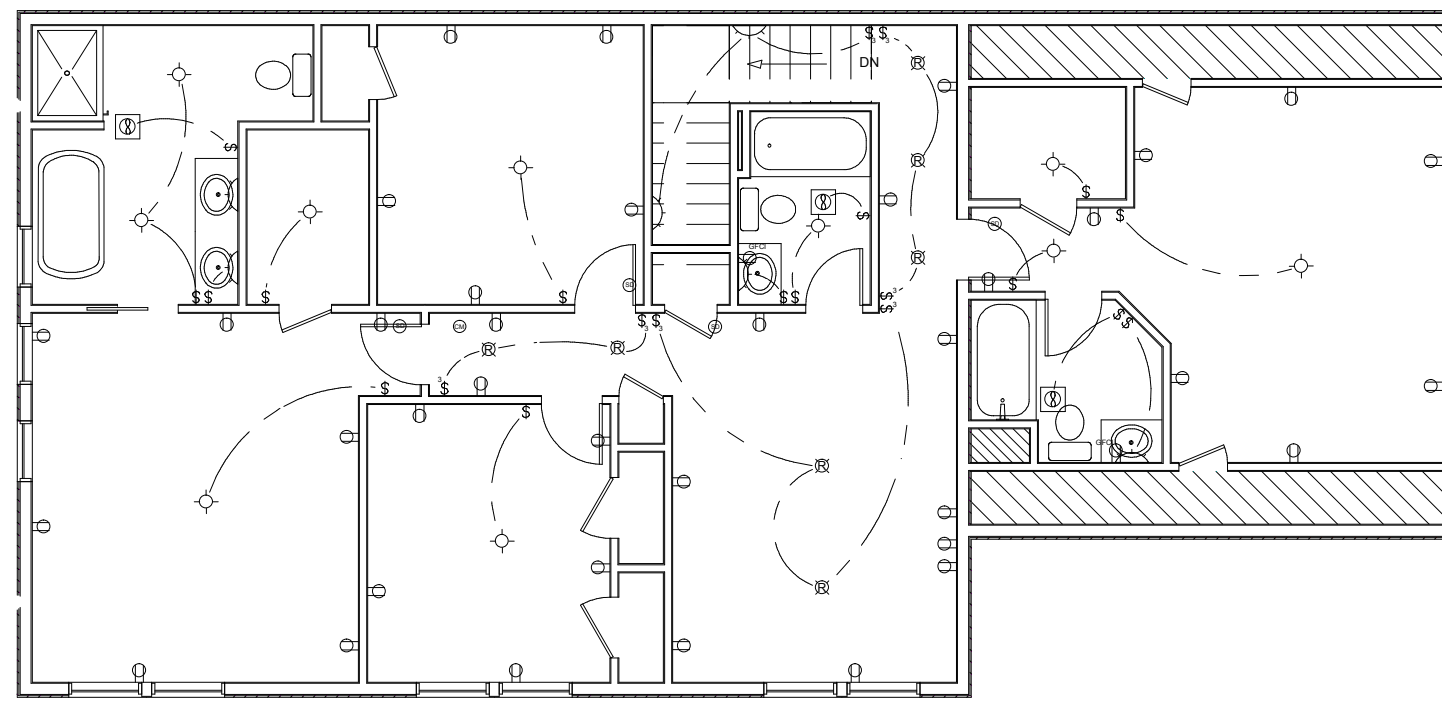


2ND LEVEL FLOOR FRAMING
Scale: 1/8" = 1'

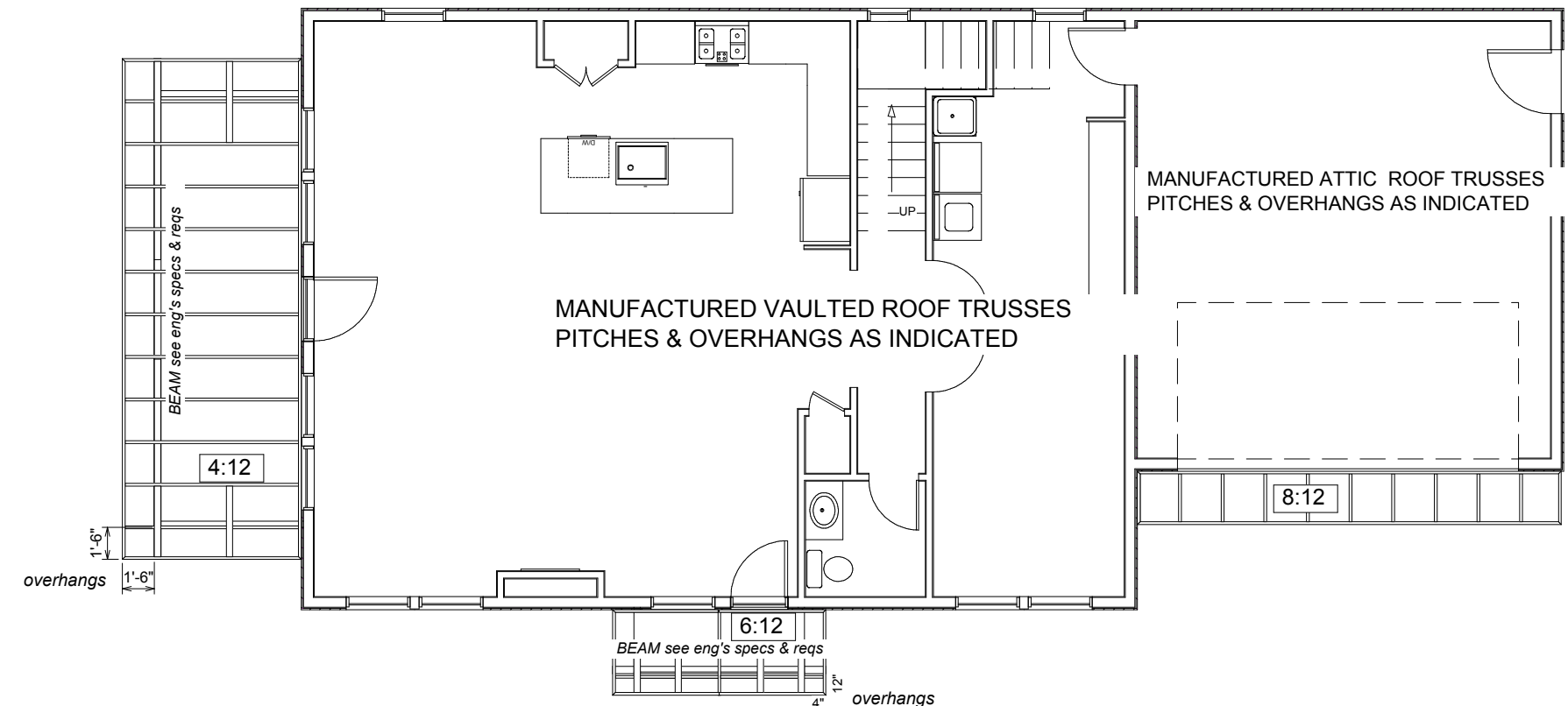
MANUF'S JOIST & TRUSS DESIGNS TAKE PRECEDENCE OVER THESE DESIGNS



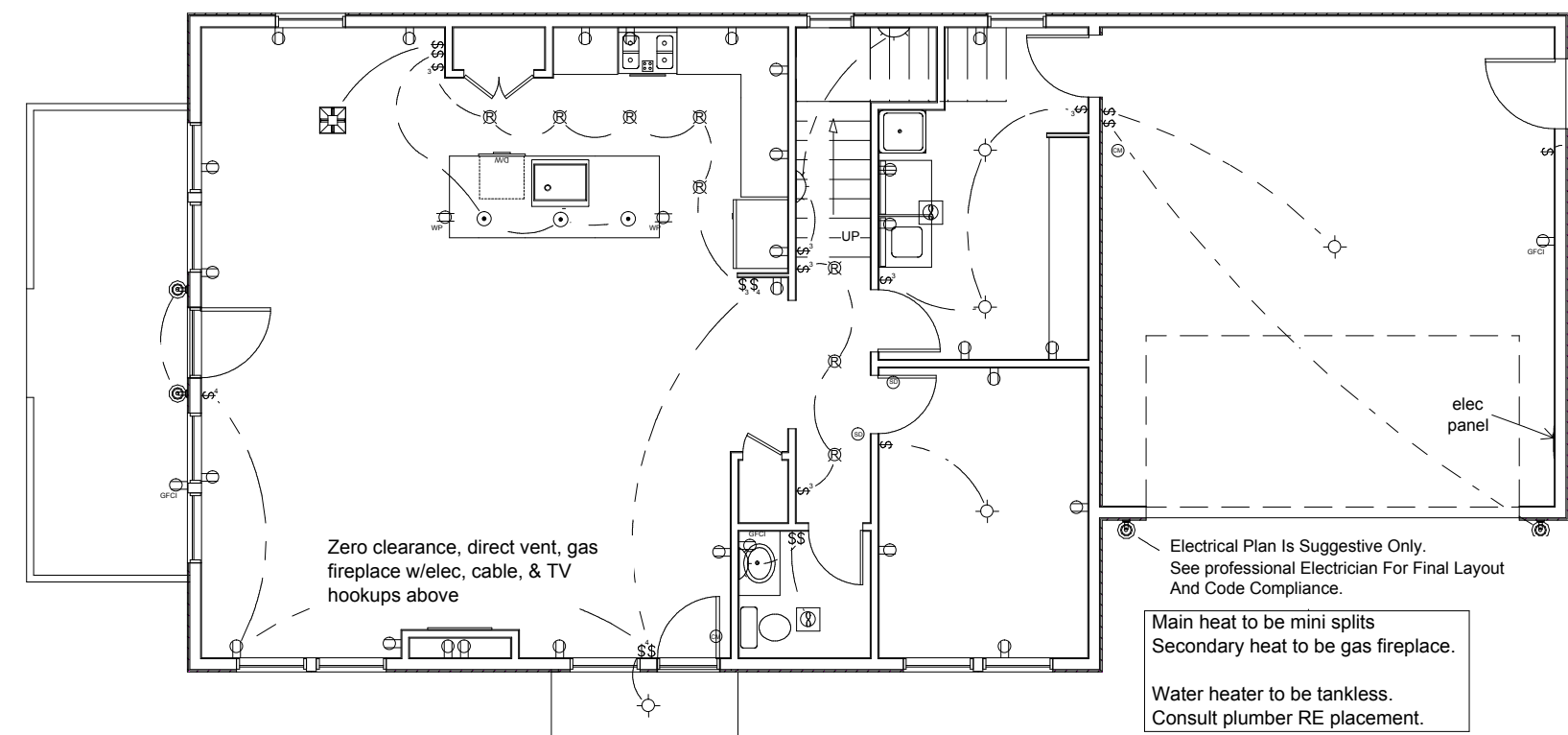
MAIN ROOF FRAMING
Scale: 1/8" = 1'



2ND LEVEL SUGGESTED ELECTRICAL
Scale: 1/8" = 1'



PORCHES & EYEBROW ROOF FRAMING
Scale: 1/8" = 1'



1ST LEVEL SUGGESTED ELECTRICAL
Scale: 1/8" = 1'

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George Ct.

LOT 2 5a

DISCLAIMER:

These plans are drawn to comply with owner's and/or builder's specifications and any changes made on them after prints are made will be done at the owner's and/or builder's expense and responsibility. The contractor shall verify all dimensions on enclosed drawings (including any/all separate engineered drawings, notes and specifications). The designer is not liable for errors once construction has begun. While every effort has been made in the preparation of this plan to avoid mistakes, the maker can not guarantee against human error. The contractor of the job must check all dimensions and other details prior to construction and be solely responsible thereafter. Adaptation of the plans to meet specific state and local building codes and regulations, and specific site conditions, is the responsibility of the contractor. In addition, the designer will not be responsible for any damages relating to the accuracy and overall integrity of the plans in excess of the fees paid to the designer for the making of the plans. The contractor, therefore must carefully inspect all dimensions and details in the plans, including any/all separate engineered drawings, for errors or omissions.

It is the sole responsibility of the owner and/or assigned general contractor, to consult a licensed engineer regarding: Soil conditions, footing sizes & placement, stem walls, retaining walls, shear walls, holdowns, fasteners, hurricane ties, post sizes and placement, and beam sizes & placement. This design includes no specific engineered analysis and has not been reviewed for any specific lateral design requirements.

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GENERAL NOTES:

Construction is to be typical in that:

1. Exterior walls are to be 2X6 studs with housewrap and siding (owner's choice). Interior is to be 1/2" drywall except where code requires 5/8" drywall, taped, sanded, & sealed

2. All Exterior Walls to have 1/2" CDX plywood or OSB (1) side nail w/ 10d nails 4" O.C. on all panel edges & 12" O.C in field.

3. Basement foundation is to include footing drain 4" perf. pipe w/filter and crushed rock.

4. Rebar size and quantity within concrete is to meet all codes, and engineer's reqs.

5. Contractor shall provide adequate bracing or otherwise support all portions of the structure until all members have been permanently connected together.

6. Plumbing diagram or drawings shall be provided by the plumbing contractor.

7. Heating/cooling duct diagrams shall be provided by the heating/cooling contractor.

8. Heat loss or energy use calculations shall be provided by heating/cooling contractor or other professional as required by Building Official.

9. Truss design, engineering & plans to be provided by truss manufacturer. Joist design, engineering & plans to be provided by joist manufacturer.

10. Each bedroom shall have at least one window with a sill height of no more than 44" above the floor.

11. All fireplace openings shall be provided with tempered glass doors and provide outside combustion air.

12. Smoke detectors shall be connected to house power, in series. Carbon monoxide detectors to code.

13. Tub & shower to have 1/2" water resistant, gypsum board and a hard moisture resistant surface up to 6'-0" above floor (min.). Air barrier must be installed at exterior walls adjacent to tub or shower.

14. All exhaust fans, range hoods and dryers shall vent to the outside through sheet metal ducts. Caulk around all penetrations through exterior envelope. Exhaust fans must be energy star rated.

15. Nailing size & coverage is to meet all codes and to be to of a high quality industry standard.

16. Framing lumber and plywood/OSB is to meet all codes and to be of a high quality industry standard.

17. All windows, patio doors and doors with glass shall be double glazed insulating units with wood or thermally broken aluminum frames and sashes.

18. All glass within 12" of a door and/or within 18" of the floor or walkway shall have tempored glazing. It is the responsibility of the contractor to verify all sizes and current requirements & regulations regarding tempored glass and egress, prior to framing.

19. All wood in permanent contact with concrete or soil shall be pressure treated with a water bourne preservative.

20. All exterior walls & walls common to unheated spaces shall be 2X6 studs 16" O.C. with R-21 insulation unless otherwise noted on the plans.

21. Provide 1 hr. fire wall between garage and living areas, and under all stairs where storage space is available.

22. All doors between garage and living areas shall be 1 hr. fire rated assemblies with 1 3/4" solid core wood doors or code approved equivalents and self-closing mechanisms.

23. Written dimensions shall have precedence over scaled dimensions. Do not scale drawings.

24. Basements with habitable space and every sleeping room to have min. window opening of 5.7 sq. ft. with a min. width of 20" and a sill hgt. not more than 44" above fin. floor.

25. Smoke detectors shall be installed in every sleeping room, outside the immediate vicinity of each sleeping area and on each story of the dwelling. All detectors shall be interconnected such that the actuation of one alarm will actuate all the alarms and will be audible in all sleeping areas over the background noise levels with all intervening doors closed.

26. Electrical receptacles in bathrooms, kitchens, exterior locations and garages shall be G.F.I. or G.F.I.C. per national electric code (N.E.C.) requirements.

27. Interior & exterior stairs shall have a means to illuminate the stairs, including landings & treads. Interior stairs of 6 steps or more shall have the required lighting in the immediate vicinity of the top & bottom of the stairs. Exterior stairways shall be provided with an artificial light source located in the immediate vicinity of the top landing of the stairs. Exterior stairs leading from grade to basement shall have an artificial light source in the immediate vicinity of the bottom landing of the stairs. Lighting for interior stairs shall be controlled from top & bottom of ea. stair. See I.R.C. 303.6

28. Provide combustion air vents (w/screen and back damper) for fireplaces, wood stoves, and any appliance with an open flame.

29. Bathroom and utility rooms are to be vented to the outside with a fan capable of producing a min. of 5 air exchanges per hour. Dryer and range hood are also to be vented to exterior.

30. Specific manufactures and material depicted on these plans are an indication of quality and strength. Verify all construction material substitutions with current applicable building codes and local officials prior to installation/substitution.

ENERGY PATH REQUIREMENTS:

Prescriptive Compliance Path To Be Equivalent To Or Exceed Path. (as required by table No. 53P)

Max. Window Areanone
Window Class - U-O.27
Doors, other than entry - U - O.20
Main Entry Door, max 24 sq ft - U-O.54

Wall Insulation - R-21
Underfloor Insulation - R-30
Flat Ceilings - R-49
Vaulted Ceilings - R-30

Basement Walls - R-21
Slab Floor Edge Insulation - R-15
Forced Air Duct Insulation - R-8

All Applicants must select one additional energy measure from ORSC 2021 Table N1101.1(2) SUGGEST: Number 2; gas tankless water htr with min. UEF 0.90

SHEAR WALL NOTES:

Shear walls, designed by a licensed engineer, ALWAYS take precedent. Use 1/2" dia. x 10" anchor bolts (AB's) with single 2x plates @ 48" OC, unless otherwise (U.N.O.) on eng. drawings (which always take precedent). Use (2) min. per wall. AB's shall have 7" min. of embedment into concrete, shall be centered in the stud wall, and shall project through the bottom plate of the wall. Plate washers at each bolt shall be a min. of 2" x 2" x 3/16" thick. All AB's, washers, and nuts shall be stainless steel or galvanized.

Wall sheathing shall be 1/2" CDX plywood, 5/8" T-1-11, or 7/16" OSB with exterior exposure glue and span rated "SR 24/0" or better unless noted otherwise in the shear wall schedule. All free sheathing panel edges shall be blocked with 2x4 or 2x6 flat blocking except where noted on the drawings or elsewhere in the notes or schedules.

All nails shall be 8d or 10d common (8d common nails must be 0.131" dia. senco KC27 nails are equiv.) If 10d common nails are called for, the diameter must be 0.148" dia, senco MD23 are equiv). Nail size & spacing at all sheathing edges shall be as req'd in the drawings or elsewhere in these notes. All field nailing shall be 12" OC U.N.O.

Holdowns are Simpson "Strong Tie" and shall be installed per the manufactures recommendation. Equivalent holdowns by United Steel Products Co. that have ICBO approval may be substituted in place of Simpson holdowns.

All wall framing lumber shall be doug fir or hem fir (#2 or better).

ROOF DIAPHRAGM NAILING:
USE 5/8" PLYWD SPAN RATED 24/0 OR BETTER
NAILED w/8d's @ 6" O.C. AND 12" IN THE FIELD, U.N.O.

FLOOR DIAPHRAGM NAILING:
USE 3/4" T&G SPAN RATED 32/16 OR BETTER, GLUED & NAILED w/8d's @ 6" O.C. @ EDGES AND 12" o.c. IN THE FIELD, U.N.O.

HOLDOWN SCHEDULE:
STHDIO -- EMBEDS 10" MIN. INTO CONCRETE FOUNDATION & ATTACHES TO DBL 2x STUDS OR BETTER w/ (28) 16d SINKER NAILS INTO WALL ABOVE

WINDOWS

ALWAYS VERIFY SIZE & STYLE PRIOR TO ORDERING.
ALL WINDOWS MUST MEET CURRENT SELECTED ENERGY CODES.
VERIFY ALL REQUIREMENTS FOR TEMPORED WINDOWS PRIOR TO ORDERING.

SITE PLAN

SITE PLANS ARE THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR. SETBACKS AND HEIGHT RESTRICTIONS VARY GREATLY, AS DO THE FORMULAS TO CALCULATE.

VENTING:

CRAWLSPACE VENTING:
Size: 1206DH
Venting Calc. per USB Section 2516(c)6
1sf NET FREE AREA/150sf Underfloor Area.
EXAMPLE: 700sf (Crawl Area)/150=4.68/.8sf=6 VENTS

COMPOSITION ROOFING ROOF VENTILATION:
1 sq. ft. of vent for every 150 sq. ft. of attic area. For roof ridge venting, see manufacture's installation requirements and design procedures.
Provide soffit venting w/screens as req. per codes.

ELECTRICAL:

Electrical Plan Is SUGGESTIVE ONLY.
Electrical Contractor shall comply with all NEC, State, and/or local Electrical Codes. Contractor shall contact the owner for any outlet/lighting changes to this basic plan. Contractor shall provide temporary power to the job site. Contractor shall clean up his/her work after completion of job.

See professional Electrician For Final Layout And Code Compliance.
Owner's or contractor's responsibility to contact local electric company RE: installation & placement of wiring, underground conduit, transformers, temporary power, meters, outlets, lighting, electric panel(s), and all issues pertinent to electrical.

ADDITIONAL CONSTRUCTION NOTES:

TYPICAL FLOOR FRAMING

1. All sill plates to be 2X6 pressure treated w/sill seal.
2. Rimjoists to be 2X12 DF/PT
3. All joists over 7'-0" to have 2" X 2" cross bridging @ 7'-0" O.C.
4. Provide solid blocking on first & last joist spans @ 7'-0" O.C.

TYPICAL FRAMED ROOF

#225 asphalt shingles or customers choice.
5/8" roofing plywood c/w "H" clips
2"X14" ridgeboard
2"X12" Rafters @ 16" or 24" O.C. w/ribbon ties OR Eng Trusses
2"X8" Ceiling joists @ 16" O.C. w/ribbon ties, & R-40 Batt Insulation
6 mil poly vapor barrier
1/2" drywall taped & sanded
2"X8" fascia board
Gutters & downspouts as req.
Comply with UBC section 23265. Provide solid blocking between joists not on 16" OC.

HOLDDOWNS:

Install Simpsonholddowns @ edge of stem wall. One #4 rebar will be placed in shear cone. Rebar min. 2X embedment depth +12" except corners. Embed holddowns 4" into slab and 6" into 8" stemwall (unless otherwise required/noted by engineer, code or manufacturer).

Provide hurricane ties at eaves per current edition of UBC or local code requirements.

HEADER SIZES:

- Use 4x8 Less Than 4'
- Use 4x10 From 4' to 6'
- Use 4x12 From 6' to 8'

Asphalt shingles shall be fastened according to manufacture's instructions to solidly sheathed roofs. Not less than 4 nails per each 36" to 40" strip shingles and 2 nails per each 9" to 18" individual shingle.

TRUSSES

See manufacture's data/spec. sheets. Engineered roof trusses at 24" O.C. Attach top plate with Simpson H-2 hurricane anchors. Bracing per truss data sheets and B W T-76 with bracing at gable ends and web bracing where needed.

GROUNDING ROD:

One #4 rebar Min. (#5 suggested) shall be stubbed up at least 12" above floor plate line & tightly attached to rebar in footing. Splice lap stubbed up rebar to the footing bar shall be 12" min.

FOUNDATION:

Footings are to bear on undisturbed level soil devoid of any organic material and stepped as required to maintain the required depth below the final grade. Soil bearing pressure assumed to be 1500 PSF. Any fill under grade supported slabs to be a minimum of 4" granular material compacted to 90%. Reinforcing steel to be A-615 grade 40. welded wire mesh to be A-185. Excavate the site to provide a minimum of 18" clearance under all girders. All wood in contact with concrete to be pressure treated or protected with 55 roll roofing. Waterproof basement walls before backfilling providing a 4" perforated drain tile below the top of the footing. Stem wall DEPTH: 24" min. below finish grade on firm undisturbed soil.
MUDSILL: 2"X6" PT w/5/8"X10"
Anchor Bolts 4" O.C. Max. and 12" from all corners and openings. Embedment min. of 7".

GROUND COVER:

Use Black 6 mil poly ground cover.
NOTE: Lap ground cover 12" @ all joints and cover entire surface area extending full width and length of crawl space and turn 12" up the foundation wall. (See local building code requirements.)

Ground cover of 55lb. roll roofing or approved equal shall be installed on ground beneath concrete floor slab.

Garage floors to slope 1/8"/ft. min. towards opening as required for drainage. Concrete slabs to have control joints at 25' (max.) intervals ea. way. Slabs are to be 5-7% air entrained. Concrete sidewalks to have 3/4" tooled joints at 5' (min.) O.C.

TYPICAL CEILING FINISH

FINISH: 1/2" or 5/8" sheetrock taped & sanded or as noted.
VAPOR BARRIER: 6 mil poly above (G.W.B.) sheetrock, except where ventilated space is more in average height.

OLIVIA BEACH CONSTRUCTION COMPANY, LLC
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PROJECT MNGR: Erin Briggs
email: erin@oliviabeach.com
cell: (541) 992-4341

PROJECT LOCATION:
380 SW 3rd St
MAP/TAX LOT:
R3325BC 02600 LOT 2

DUNDEE Lot 2
George Ct.

LOT 2

6a

DUNDEE LOT 2

DATE: February 24, 2022

DISCLAIMERS, GENERAL NOTES

TABLE N1101.1(1)
PRESCRIPTIVE ENVELOPE REQUIREMENTS*

BUILDING COMPONENT	STANDARD BASE CASE		LOG HOMES ONLY	
	Required Performance	Equiv. Value ^b	Required Performance	Equiv. Value ^b
Wall insulation—above grade	U-0.059 ^c	R-21 Intermediate ^c	Note d	Note d
Wall insulation—below grade ^e	C-0.063	R-15 c.i. / R-21	C-0.063	R-15/R-21
Flat ceilings ^f	U-0.021	R-49	U-0.020	R-49 A ^h
Vaulted ceilings ^g	U-0.033	R-30 Rafter or R-30A ^h Scissor Truss	U-0.027	R-38A ^h
Underfloors	U-0.033	R-30	U-0.033	R-30
Slab-edge perimeter ^h	F-0.520	R-15	F-0.520	R-15
Heated slab interior ⁱ	n/a	R-10	n/a	R-10
Windows ^j	U-0.27	U-0.27	U-0.27	U-0.27
Skylights	U-0.50	U-0.50	U-0.50	U-0.50
Exterior doors ^k	U-0.20	U-0.20	U-0.54	U-0.54
Exterior doors with > 2.5 ft ² glazing ^l	U-0.40	U-0.40	U-0.40	U-0.40

- For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m², 1 degree = 0.0175 rad, n/a = not applicable.
- As allowed in Section N1104.1, thermal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-factor standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-factors contained in Table N1104.1(1).
 - R-values used in this table are nominal for the insulation only in standard wood-framed construction and not for the entire assembly.
 - Wall insulation requirements apply to all exterior wood-framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. Nominal compliance with R-21 insulation and Intermediate Framing (N1104.5.2) with insulated headers.
 - The wall component shall be a minimum solid log or timber wall thickness of 3.5 inches.
 - Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such wall that extend more than 24 inches above grade. R-21 for insulation in framed cavity; R-15 continuous insulation.
 - Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar architectural features totaling not more than 150 square feet in area may be reduced to not less than R-21. When reduced, the cavity shall be filled (except for required ventilation spaces). R-49 insulation installed to minimum 6-inches depth at top plate at exterior of structure to achieve U-factor.
 - Vaulted ceiling surface area exceeding 50 percent of the total heated space floor area shall have a U-factor no greater than U-0.026 (equivalent to R-38 rafter or scissor truss with R-38 advanced framing).
 - A = Advanced frame construction. See Section N1104.6.
 - Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab.
 - Sliding glass doors shall comply with window performance requirements. Windows exempt from testing in accordance with Section NF111.2, Item 3 shall comply with window performance requirements if constructed with thermal break aluminum or wood, or vinyl or fiberglass frames and double-pane glazing with low-emissivity coatings of 0.10 or less. Buildings designed to incorporate passive solar elements may include glazing with a U-factor greater than 0.35 by using Table N1104.1(1) to demonstrate equivalence to building envelope requirements.
 - A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of 0.54 or less.
 - Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this requirement.
 - Minimum 24-inch horizontal or vertical below grade.

ENERGY EFFICIENCY

TABLE N1101.1(2)
ADDITIONAL MEASURES

1	HIGH EFFICIENCY HVAC SYSTEM^a a. Gas-fired furnace or boiler AFUE 94%, or b. Air source heat pump HSPF 10.0/14.0 SEER cooling, or c. Ground source heat pump COP 3.5 or Energy Star rated
2	HIGH EFFICIENCY WATER HEATING SYSTEM a. Natural gas/propane water heater with minimum UEF 0.90, or b. Electric heat pump water heater with minimum 2.0 COP, or c. Natural gas/propane tankless/instantaneous heater with minimum 0.80 UEF and Drain Water Heat Recovery Unit installed on minimum of one shower/tub-shower
3	WALL INSULATION UPGRADE Exterior walls—U-0.045/R-21 conventional framing with R-5.0 continuous insulation
4	ADVANCED ENVELOPE Windows—U-0.21 (Area weighted average), and Flat ceiling—U-0.017/R-60, and Framed floors—U-0.026/R-38 or slab edge insulation to F-0.48 or less (R-10 for 48"; R-15 for 36" or R-5 fully insulated slab)
5	DUCTLESS HEAT PUMP For dwelling units with all-electric heat provide: in lieu of Ductless heat pump of minimum HSPF 10 in primary zone replaces zonal electric heat sources, and Programmable thermostat for all heaters in bedrooms
6	HIGH EFFICIENCY THERMAL ENVELOPE UA^a Proposed UA is 8 percent lower than the code UA
7	GLAZING AREA Glazing area, measured as the total of framed openings is less than 12 percent of conditioned floor area
8	3 ACH AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION Achieve a maximum of 3.0 ACH50 whole-house air leakage when third-party tested and provide a whole-house ventilation system including heat recovery with a minimum sensible heat recovery efficiency of not less than 66 percent

- For SI: 1 square foot = 0.093 m², 1 watt per square foot = 10.8 W/m².
- Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors.
 - The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated space floor area unless vaulted area has a U-factor no greater than U-0.026.
 - In accordance with Table N1104.1(1), the Proposed UA total of the Proposed Alternative Design shall be a minimum of 8 percent less than the Code UA total of the Standard Base Case.

TABLE N1104.8
AIR BARRIER INSTALLATION AND AIR SEALING REQUIREMENTS

COMPONENT	AIR BARRIER CRITERIA
General requirements	A continuous air barrier shall be installed in alignment with the building thermal envelope. Breaks or joints in the air barrier shall be sealed.
Ceiling/attic	The air barrier in any dropped ceiling or soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop-down stairs, or knee wall doors to unconditioned attic spaces shall be gasketed and sealed.
Walls	The junction of the foundation and sill plate shall be sealed. Between wall cavities and windows or door frames. The junction of the top plate and the top of walls shall be sealed in accordance with Section N1104.8.2.1. All penetrations or utility services through the top and bottom plates shall be sealed. Knee walls shall be sealed.
Windows, skylights and doors	The space between framing and skylights, and the jambs of windows and doors shall be sealed.
Rim/band joists	Rim/band joists shall be a part of the thermal envelope and have a continuous air barrier.
Floors	The air barrier shall be installed at any exposed edge of insulation. Including cantilevered floors and floors above garages
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.
Shafts, penetrations	Duct shafts, utility penetrations and flue shafts opening to exterior or unconditioned space shall be sealed.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.
Shower/tub on exterior walls	The air barrier installed at exterior walls adjacent to showers and tubs shall separate the wall from the shower or tub.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical and communication boxes. Alternatively, air-sealed boxes shall be installed.
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.

N1104.8 Air leakage. The building thermal envelope shall be constructed to limit air leakage in accordance with this section.

N1104.8.1 Air barriers. A continuous air barrier shall be installed and fully aligned with the building thermal envelope on every vertical portion of air-permeable insulation and on the warm side of horizontal, air-permeable insulation. Air-permeable insulation shall not be used as a sealing material.

Exception: Unvented attics, continuous insulation walls and similar conditions where an impermeable insulation layer forms an air barrier.

N1104.8.2 Sealing required. Exterior joints around window and door frames, between wall cavities and window or door frames, between walls and foundation, between walls and roof, between wall panels, at penetrations or utility services through walls, floors and roofs and all other openings in the exterior envelope shall be sealed in a manner approved by the *building official*.

Sealing for the purpose of creating a continuous air barrier shall be in accordance with the applicable requirements of Table N1104.8, or the *dwelling* shall be tested to demonstrate a blower door result not greater than 4.0 ACH50.

***Provide test reports to city prior to final inspection. Test reports are recommended prior to cover to prevent complex repairs to reach compliance.

TABLE M1505.4.3(1)
CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS

DWELLING UNIT FLOOR AREA (square feet)	NUMBER OF BEDROOMS				
	0-1	2-3	4-5	6-7	>7
< 1,500	30	45	60	75	90
1,501 - 3,000	45	60	75	90	105
3,001 - 4,500	60	75	90	105	120
4,501 - 6,000	75	90	105	120	135
6,001 - 7,500	90	105	120	135	150
> 7,500	105	120	135	150	165

For SI: 1 square foot = 0.0929 m², 1 cubic foot per minute = 0.0004719 m³/s.

TABLE M1505.4.3(2)
INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS^{a, b}

RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT	25%	33%	50%	66%	75%	100%
Factor ^a	4	3	2	1.5	1.3	1.0

- For ventilation system run time values between those given, the factors are permitted to be determined by interpolation.
- Extrapolation beyond the table is prohibited.

SECTION M1505
MECHANICAL VENTILATION

M1505.1 General. Where Section R303.3 requires toilet rooms, bathrooms, and rooms with bathing or spa facilities to be mechanically ventilated, the ventilation equipment shall be installed in accordance with this section. Where local exhaust or whole-house mechanical ventilation is provided, the equipment shall be designed in accordance with this section and the applicable provisions of Chapter 11.

M1505.2 Recirculation of air. Exhaust air from range hoods, bathrooms, toilet rooms and rooms with bathing or spa facilities shall not be recirculated within a residence or circulated to another *dwelling unit* and shall be exhausted directly to the outdoors. Exhaust air from bathrooms, toilet rooms and kitchens shall not discharge into an *attic*, crawl space or other areas inside the building. This section shall not prohibit the installation of ductless range hoods in accordance with the exception to Section M1505.3.

M1505.3 Exhaust equipment. Exhaust equipment serving single *dwelling units* shall be *listed* and *labeled* as providing the minimum required airflow in accordance with ANSI/AMCA 210-ANSI/ASHRAE 51.

M1505.4 Whole-house mechanical ventilation system. Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1505.4.1 through M1505.4.3.

M1505.4.1 System design. The whole-house *mechanical* ventilation system shall provide *balanced* ventilation. Local exhaust or supply fans are permitted to serve as part of such a system. Outdoor air ventilation provided by a

supply fan ducted to the return side of an air handler shall be considered as providing supply ventilation for the balanced system.

M1505.4.2 System controls. The whole-house mechanical ventilation system shall be provided with controls that enable manual override.

M1505.4.3 Mechanical ventilation rate. The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate as determined in accordance with Table M1505.4.3(1) or Equation 15-1.

Ventilation rate in cubic feet per minute = (0.01 × total square foot area of house) + [7.5 × (number of bedrooms + 1)]

Equation 15-1

Exception: The whole-house mechanical ventilation system is permitted to operate intermittently where the system has controls that enable operation for not less than 25 percent of each 4-hour segment and the ventilation rate prescribed in Table M1505.4.3(1) is multiplied by the factor determined in accordance with Table M1505.4.3(2).

M1505.5 Exhaust ventilation rate. Ventilation systems shall be designed to have the capacity to exhaust the minimum air flow rate determined in accordance with Table M1505.5. Exhaust flow ratings shall be source specific ventilation systems shall be in accordance with the Home Ventilating Institute (HVI) or Air Movement and Control Association (AMCA) residential ventilation standards. Fans shall be Energy Star certified in accordance with Section N1105.5.

N1104.2.7 Recessed lighting fixtures. Recessed lighting fixtures installed within the building thermal envelope shall meet one of the following requirements.

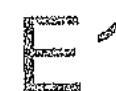
- Type IC-rated, manufactured with no penetrations between the inside of the recessed fixture and ceiling cavity, and the annular space between the ceiling cutout and lighting fixture shall be sealed.
- Type IC-rated in accordance with ASTM E283 with no more than 2.0 cubic feet per minute (cfm) (0.944 L/s) air movement from the *conditioned space* to the ceiling cavity at 1.57 psi pressure (75 Pa) difference shall be labeled and the annular space between the ceiling cutout and lighting fixture shall be sealed.
- Type IC-rated installed inside a sealed box constructed from a minimum 0.5-inch-thick (12.7 mm) gypsum wallboard or constructed from a preformed polymeric vapor retarder or other air-tight assembly manufactured for this purpose.

Entire heating system (Air handler & ductwork) must be inside the insulated/conditioned area. Not more than 5% is permitted to be outside the heated space.

Whole House ventilation system must be an air balanced and installed in compliance with code. The system must exhaust indoor air and supply fresh air at an equal rate to the home. The system must be tied together to operate at the same time. The minimum CFM & 24HR runtime is noted in table M1505.4.3(1).

***A listed/tested manufactured HRV or ERV system installed per MI's and sized per the table is also an acceptable option.

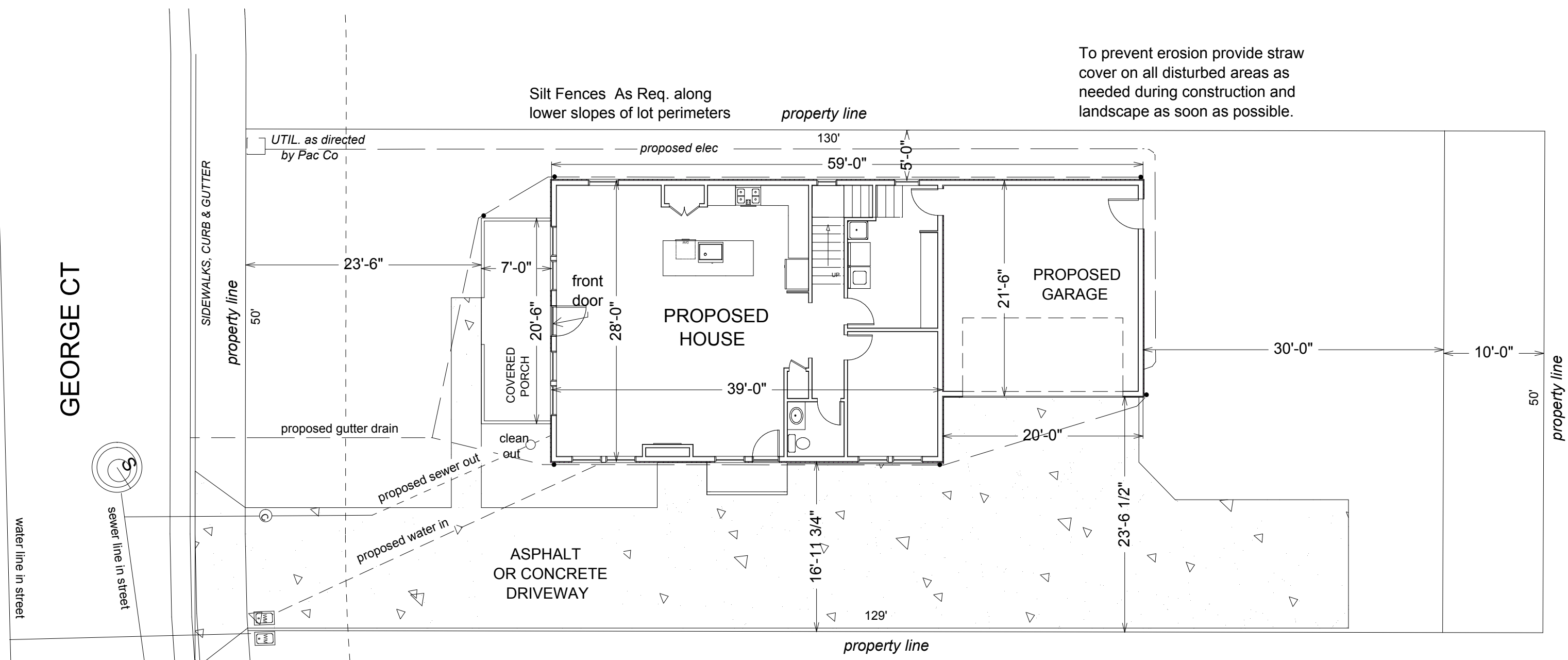
2021 ORSC Energy & Mechanical Code Requirements.



DUNDEE LOT 2

DATE: February 24, 2022

ENERGY & MECHANICAL CODE REQS.



LOT 2
 6,475 SF
 MAX FOOTPRINT = 2913 SF
 MAX PARKING AREA = 1942 SF
 SLOPE @ 5' IN FOOTPRINT
 2 LEVELS ABOVE GROUND
 ATTACHED GARAGE

Lot Size: 6475 SF
 Building Area Footprint: 1774 SF (28%)
 New Home Footprint: 1522 SF
 Covered Porches (226+26): 252 SF
 DRIVEWAY/PARKING/WALKWAYS: Approx 1722 SF
 Total Impervious Surfaces: 3496 SF (54%)

NOTES:
 CODES VARY—ALWAYS CHECK STATE, COUNTY & CITY CODES PRIOR TO CONSTRUCTION.
 SOIL & CONDITIONS VARY—WHEN IN QUESTION ALWAYS CONSULT A LICENSED ENGINEER
 REGARDING SOIL CONDITION, FOOTINGS, STEM WALLS, RETAINING WALLS, SHEAR WALLS,
 HOLDOWNS, POST SIZE AND PLACEMENT, BEAM SIZE & PLACEMENT.
 ALL ENGINEERING, JOIST DESIGNS, TRUSS DESIGNS, FOOTINGS & FOUNDATIONS SPECS &
 REQS CREATED BY ENGINEER AND/OR MANUFACTURING COMPANY. TAKE PRECEDENT
 OVER THESE DESIGNS. DESIGNER NOT TO BE HELD LIABLE FOR CONSTRUCTION

SCALE: 1" = 10'

OLIVIA BEACH CONSTRUCTION COMPANY, LLC
 P.O. Box 414, Lincoln City, OR 97367
 CCB# 199761 (541) 992-4341

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 C/O Olivia Beach Construction
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 380 SW 3rd St
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