# CIENCIALA RESIDENCE

773 PARK RD, ENDERBY BC



N. SUPPLY. BUILD
ENT BUILDING SOLUTIONS

CONSULTAI

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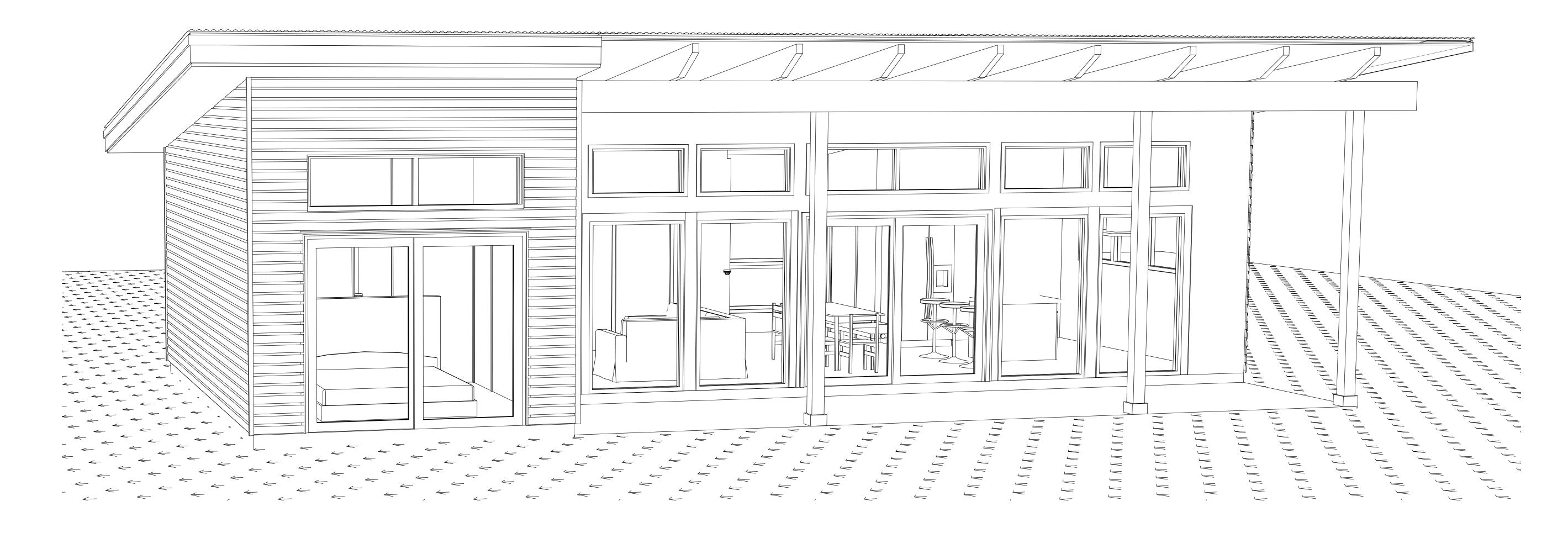
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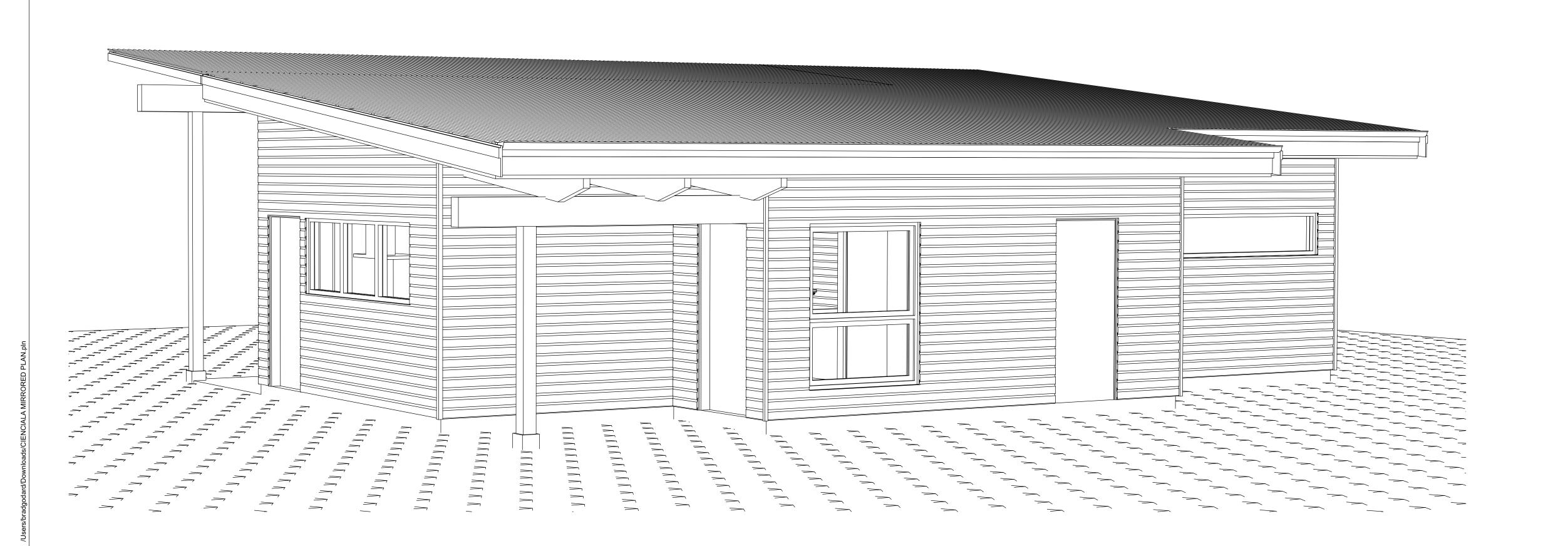
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Job:

A1.01





## SHEET INDEX

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## GENERAL NOTES & SPECIFICATIONS

## **GENERAL NOTES**

- •The Contractor or Owner shall resolve any problems arising out of any variances from the drawings and specifications, or from conditions encountered at the job site. Such a resolution shall be sole responsibility of the Contractor or Owner.
- The Building Designer shall not be responsible for any departure from the drawings and specifications authorized by any inspection authority during the course of construction.
- The Building Designer shall not be responsible for any unauthorized changes to the design by the Owner or Contractor.
- The Contractor or Owner shall be responsible for correct placement of this building on the site. The Building Designer does not guarantee that this building will fit a particular site, unless a legal survey plan and a copy of the applicable zoning by-laws stating the required setbacks from all property lines is received by this office in advance of the development and issuance of these
- The Building Designer shall not be responsible for site conditions such as soil bearing capacity, depths of water tables or buried structures.
- Do not scale drawings. Written dimensions can be requested by sending a request for information (RFI) to The Building Designer. • Construction loads on the structure caused by interim storage of material or use of equipment will not be allowed to exceed the
- The Building Designer makes every effort to provide complete and accurate home plans. This office assumes no liability for any
- errors or omissions that may affect construction. • Should any discrepancies be found on this set of drawings, please advise our office at your earliest convenience.

## STRUCTURAL DESIGN

designed load.

- All concrete work to be designed and inspected by a professional engineer to be paid by the OWNER.
- All floor joist and roof trusses to be designed and inspected by a professional engineer to be paid for by the Contractor. Shop drawings must be submitted to the Designer for the review prior to construction.
- Assumed roof design GSL=3.3 kPa RL=0.11 kPa
- Assumed soil bearing capacity = 119.7 kN/m2 (2,500 p.s.f.)
- Concrete foundation walls and slab-on-grade shall have a minimum compressive strength of 28MPa (4000 psi) at 28 days. All reinforcing bars shall be billet steel complying with CSA-
- Where possible, incorporate fly ash into concrete mixture.

## COMPRESSIVE STRENGTH

- Min. 25MPa concrete in all cases, except garage floors and exterior steps and hallway have min. 32Mpa
- Concrete used for garage floors and exterior steps shall have air entrainment of 5% +/- 1%

## **BUILDING SPECIFICATIONS**

placement.

- Foundations shall be concrete on solid undisturbed bearing and below frost line.
- Basement foundation walls shall be backfilled until:
- Concrete has reached its specified 28 day strength
- II. Structural floor framing, including subfloor, required to support the walls in complete and fully nailed and anchored.
- Foundation wall heights may require adjustment to suit site conditions.
- All concrete and masonry foundation walls exceeding limits specified in the current Building Code require engineering.
- See structural engineering drawings for rebar sizing and
- Corner reinforcing to be capped min. 24" (600mm)
- Provide min. clear concrete cover of 1 1/2" (38mm) The Contractor shall examine all applicable drawings for
- locations of embedded items before placing concrete.
- Perimeter drainage shall be installed where required to the approval of local authorities.

### **Wood-Frame Construction**

- Dimensions are taken from outside face of exterior wall sheathing to centerline of interior wall studs. Face of exterior wall sheathing to be flush with outside face of foundation wall. Exception noted.
- All studs, plates, backing, blocking and bridging to be no. 2 Spruce - Pine - Fir (SPF) or better.
- All joists, rafters, beams and lintels to be no. 2 Spruce Pine Fir (SPF) or better. Exceptions noted.
- Floor joists are to be placed to accommodate heating, plumbing
- and other services.
- All lintels to be 3-2x10 (3-38x235). Exceptions noted on framing
- Wood in contact with concrete to be dampproofed with Foam sill gasket, 45 lb. tar saturated felt, 6 mil polyethylene or other approved material.
- All wood plates are to be anchored to with 5/8" (16mm) diameter anchor bolts at spacing not exceeding 4'-0" (1,219mm) o.c. Exceptions noted.
- Exterior wood plates are to be level and sealed at contact with concrete foundation.
- Cross-bridging for floor joists and roof joists shall be 2x2 (38X38) diagonal type whenever possible.
- Cross-bridging rows shall be installed at mid-span for joist spans exceeding 7'-0" (2100mm) or at 7"-0" o.c. maximum, unless
- strapping or sheathing is applied to the underside of joist. Roof trusses require and engineer's certificate. For preengineered trusses, a certificate may be obtained from the truss fabricator.
- Caulk under all exterior door frames and at both sides of exposed masonry chimneys.
- All roofs sheathing to be 1/2" min.
- All wall sheathing to be 3/8" min.
- All subfloors to be 5/8" min.

## **Insulation and Ventilation**

Minimum insulation requirements as per

B.C.B.C. 9.36.2.6.B. (with HRV)

Walls: RSI = 2.97 (R16.8)Attic Space: RSI = 8.67 (R49.2)

Roof Joist Assemblies: RSI = 4.67 (R26.5) Under Slabs: RSI = 1.96 (R11.12)

- \*See building section for project specific requirements. 6mil polyethylene vapor barrier shall be installed on the warm side of insulation, except when insulating concrete forms are
- Wall insulation to be expanded polystyrene, fiberglass or mineral fibre batt type and/ or closed cell polyurethane insulation.
- Ceiling insulation to be closed cell extruded polystyrene type.
- Provide a baffle of air space (equal to soffit venting area)
- between insulation and roof sheathing at exterior wall line. All walls and ceiling between residential spaces and garages or
- carports shall be insulated.
- Insulation requirements may vary with heating system and with local locations. Verify with local authorities.
- All roof spaces shall be ventilated with soffit, roof or gable vents, or a combination of these equally distributed between the top of roof space and soffits.
- The total unobstructed venting ares for attics and roof spaces shall be minimum 1/300 of the insulated ceiling area. Where the roof slope is less than 1 in 6, or in roofs constructed of roof joists, the unobstructed vent area shall be not less than 1/150.
- Vents for crawlspace must have a minimum total unobstructed area 1/500 of the crawlspace floor area, must be uniformly distributed on opposite sides of the building, and must be designed to prevent the entry of snow, rain, and insects.

• Air Sealing: It is recommended that a blower door test by an independent energy advisor to be conducted on the home prior to drywall insulation. Any leaks in walls or ceiling of new must be sealed. Test results must be submitted to The Building Designer by the energy advisor prior to installation of drywall.

### Masonry, chimneys and Fireplaces:

- All masonry work shall be in accordance with the current B.C. Building Code.
- All chimney and fireplace installation shall be governed, inspected and approved by municipal authorities. A separate
- permit may be required. Zero clearance type metal fireplaces and metal chimneys to be CSA approved and installed to manufacturer's specification.

Metal lining is recommended for chimney chases.

## Finishing:

- All interior and exterior finishes shown on the drawings shall be confirmed by the Owner.
- Gypsum wall board is to be mechanically fastened and not glued
- Interior paints, coatings, and sealants to have zero volatile
- organic compounds (VOCs) All horizontal changes in exterior finishes to be flashed.
- Openings in partitions shown without doors are to be full height unless shown otherwise.
- Coat and clothing closets shall have one rod and shelf. Linen closets shall have adjustable shelves where possible. Broom closets shall have one shelf.
- Trim to be solid wood or formaldehyde free MDF.
- All casework material to be formaldehyde free.
- Exterior doors shall be solid core and weather-stripped.
- Garage doors to dwelling area to be solid core, weather-stripped and self closing.
- Flashing, including end-dams, to be installed over all unprotected exterior openings
- All bathrooms shall have a wall medicine cabinet or one lockable cabinet drawer.
- Continuous ridge ventilation.

- Installation of entire heating, ventilation and air conditioning system, whether electric, forced air or hot water, must comply with manufacturer's directions (where applicable) and conform to requirements of local codes and regulations in all respects.
- Bathroom exhaust fans must run a min. 4 hours twice per day and/or ventilation must comply with B.C.B.C.9.32.3 code
- requirements for mechanical ventilation. Installation of a Heat Recovery Ventilator is recommended.
- Gas connection will require separate permit and inspection. • All supply air ducts to be installed overhead in basement unless
- specified otherwise.
- All return air intakes and registers to be designed and installed for maximum efficiency by a qualified heating contractor. Shop drawings to be submitted to The Building Designer for review prior to installation.

## Plumbing:

- All materials, equipment and methods of installation shall be in accordance with requirements outlined in Part 7 of the B.C. Building Code and applicable local regulations.
- When the Owner's property is not located on a municipal sewer system, wells and septic disposal systems are to be located and constructed in accordance with health authorities having jurisdiction.

## **Electrical:**

- Installation of electrical items must comply with B.C. Electrical
- Code and with the local Safety Authority in all respects.
- Outlet locations must comply with or exceed current minimum requirements outlined in the B.C. Building Code. The minimum requirements are to be used as a guide only, and may be adjusted according to the Owner's and/or local authority's specific requirements beyond the minimum.

- It will be the responsibility of the owner/contractor to give minimum 24 hours noticed to Building Inspection Services for booking an inspection request. The Permit Number must be quoted when requesting an inspection, and the owner/contractor is to ensure that the Building Permit Placard is posted in a conspicuous place on the property such as the driveway entrance.
- All work being inspected must be complete and ready prior to
- Work must not proceed past any of the stages listed without prior clearance.

## **Inspections Required by The Building Authority:**

### 1. SITING AND FOUNDATION

When the forms for footings are complete, but prior to placing of any concrete therein; (A string line must be extended between exposed IP's or setbacks pins must be located by a BC Land Surveyor).

### 2. DAMPROOFING

When foundation concrete damp-proofing, waterproofing and perimeter drains are complete, or after framing of a preserved wood foundation wall and floor assembly and application of dampproofing, but prior to any backfilling being placed.

### 3. UNDERSLAB PLUMBING

After the under-slab plumbing has been complete, but PRIOR to backfilling (testing with a minimum or 5psi is required).

### 4. DAMP-PROOFING

When concrete slab dampproofing or soil gas control measures have been installed, but prior to pouring a concrete slab.

### 5. FRAMING

When framing and sheathing of the building are complete, including the installation of roof membrane, all exterior doors and windows, fire-stopping, bracing, chimneys, duct work, plumbing, gas venting and wiring, but before any insulation, drywall or other interior or exterior finish is applied which would conceal such work.

### 6. MASONRY FIREPLACE

During the construction of any masonry fireplace, when cantilevered hearth forms are placed but prior to pouring concrete; at the smoke chamber stage for a free-standing masonry chimney, at the thimble stage; before and factory-built or site constructed fireplace or chimney is enclosed by combustible material; and before the chimney cap is placed on a masonry chimney.

## 7. INSULATION/STUCCO WIRE

When installation of insulation, vapour barrier and second plane of protection (penetrations through building paper or building wrap are sealed) are complete but PRIOR to placement of any finish thereon. When exterior stucco wire and flashing is complete but prior to placement of any scratch coat thereon.

## 8. FINAL INSPECTION

When all work is complete prior to occupancy.

## **ABBREVIATIONS**

B.C. BD. Board B.F. Bifold door BLDG. Building BM B.U. Built-up CEIL. Ceiling COL. Column CONC. Concrete CONC. BLK Concrete block CONT. Continuous C.S. Crawlspace D. Dryer DIAM. Diameter DN. Down D.W. Dishwasher

ESP ELEV. Elevation EQ. Equal Refrigerator F.D. Floor drain FTG. Footing FURN. Furnace Gauge G.I. Galvanized iron GYP. BD. Gypsum board H.B. Hose bib

Height H.W.T. INSUL. Insulation L.X. LDRY. Laundry LIN. Linen LINO. Linoleum Louvered MAX. Maximum

Medicine cabinet MIN. Minimum MFR. SPEC'S Manufacturer's specifications Microwave N.B.C. National Building Code

Not to scale Obscure On centre Overhead Pocket door Plywood

REQ'D Required R.C. Rubber cover R&S Rod and shelf RM. Room

**SBPO** S/C Solid core SH. Shower SUSP. Suspended T/O Top of TYP. Typical U/S

W W/. W.C. Water closet (bathroom) WD. Wood

W.P. Weatherproof W.W.M. Welded wire mesh XPS. Extruded Polystyrene (closed cell)

British Columbia Building Code

DIM. Dimension **Expanded Poly Styrene** 

HORIZ. Horizontal

Hot water tank Laundry chute

N.I.C. Not in Contract N.T.S. OBSC. O.C. O/H PKT PLYW'D

P.U.F. Polyurethane foam (closed cell) Range

R.O. Rough opening RWL Rain water leader Spun Bonded Poly Olefin

Underside VERT. Vertical V.B. Vapour barrier (Clothes) Washer

CREEK

**DESIGN . SUPPLY . BUILD**EFFICIENT BUILDING SOLUTIONS CTION CN JUNG 1LOOPS | 1K3 265 KAM V2H

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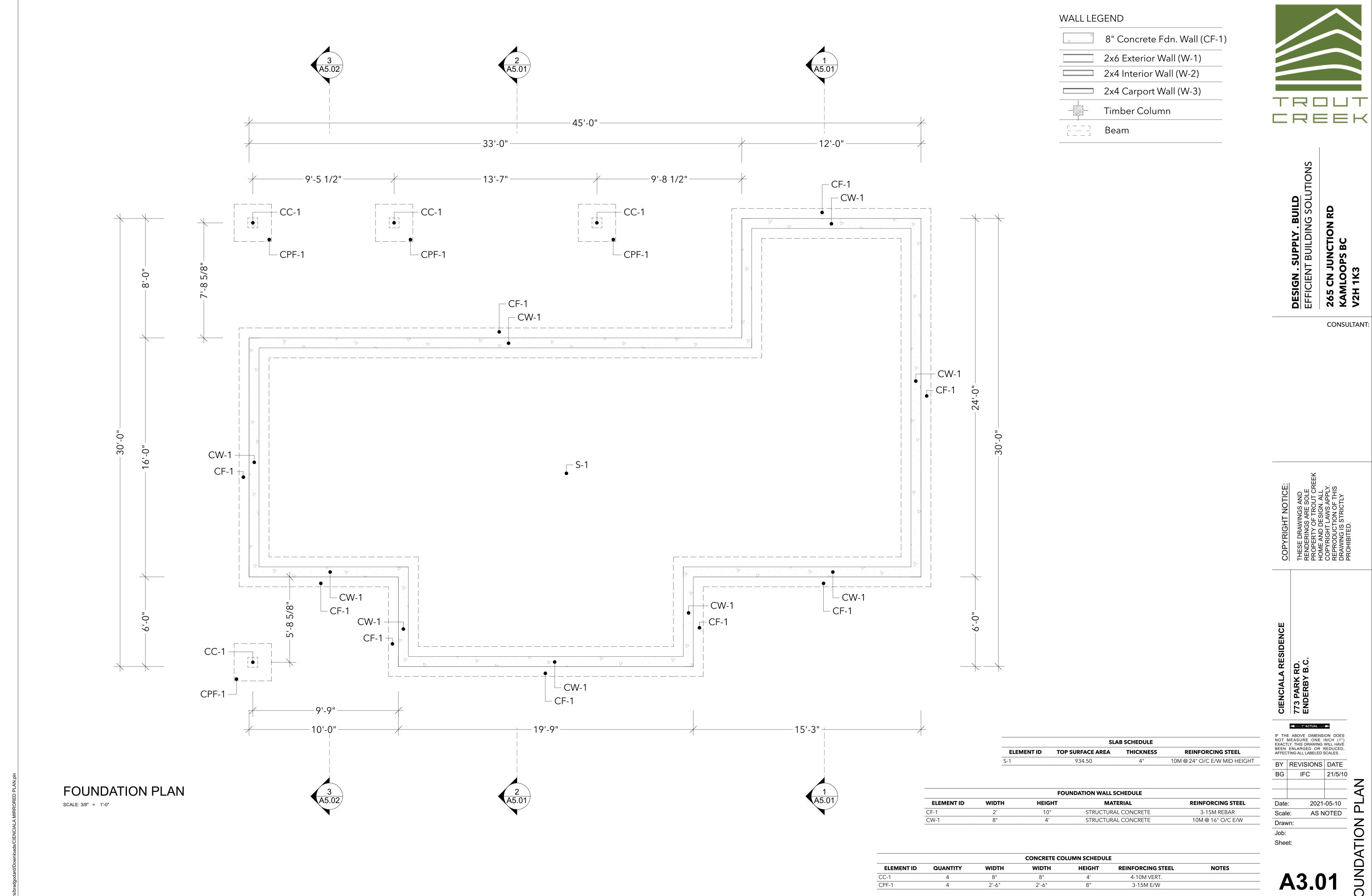
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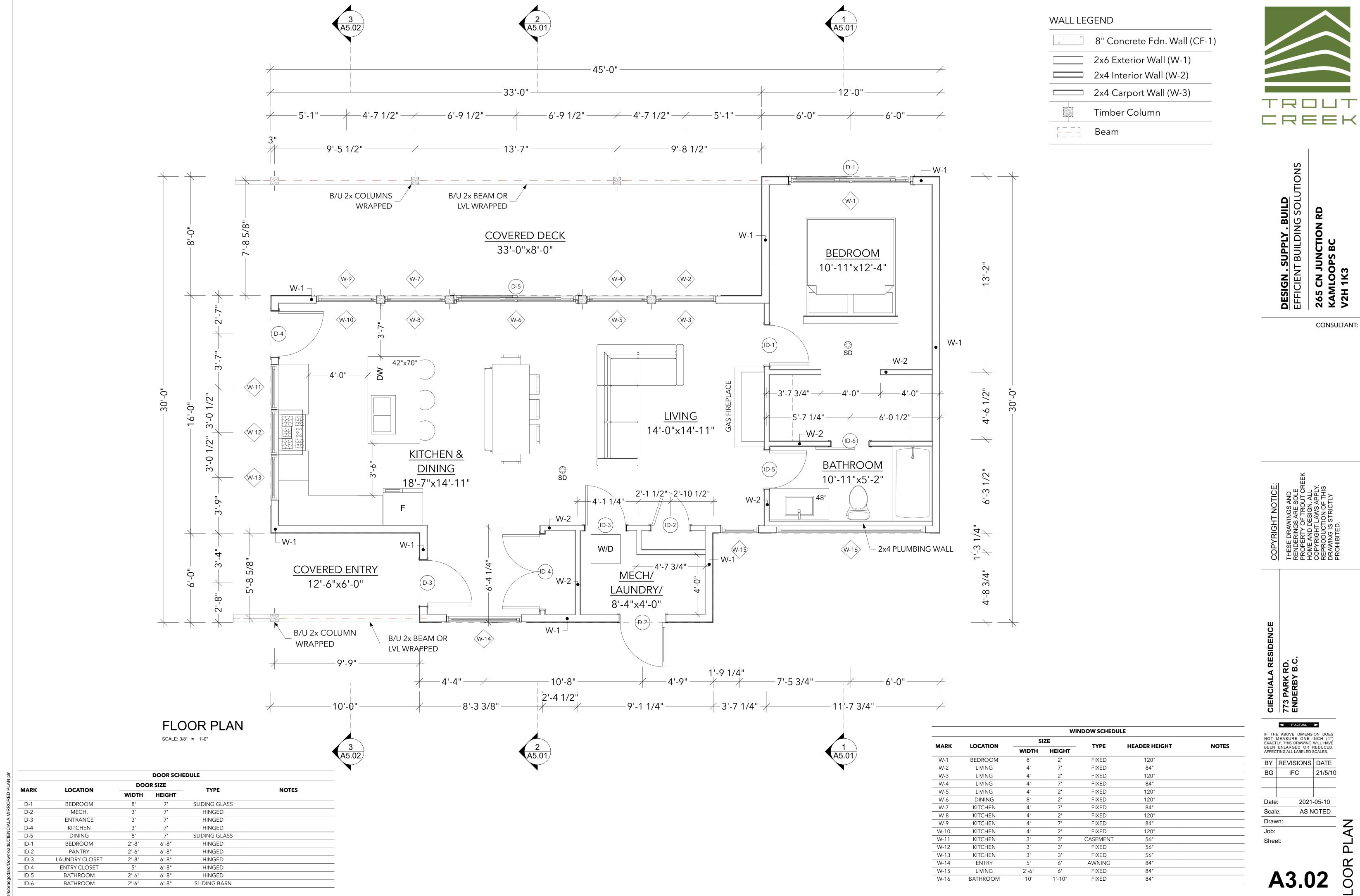
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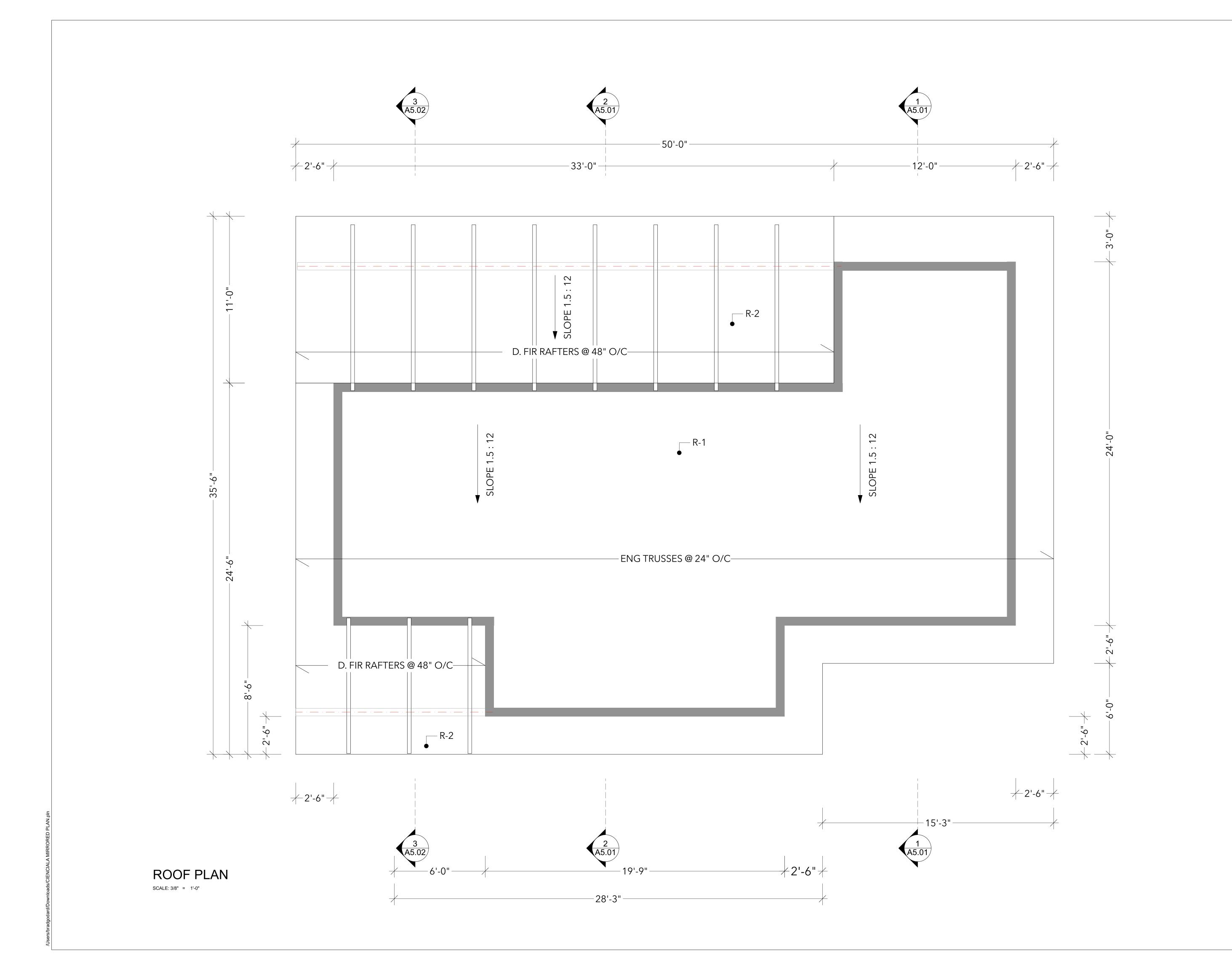
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EFFICIENT BUILDING SOLUTION

CONSULTANT:

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## **FINISH LEGEND**

1 HORIZONTAL FIBRE CEMENT SIDING

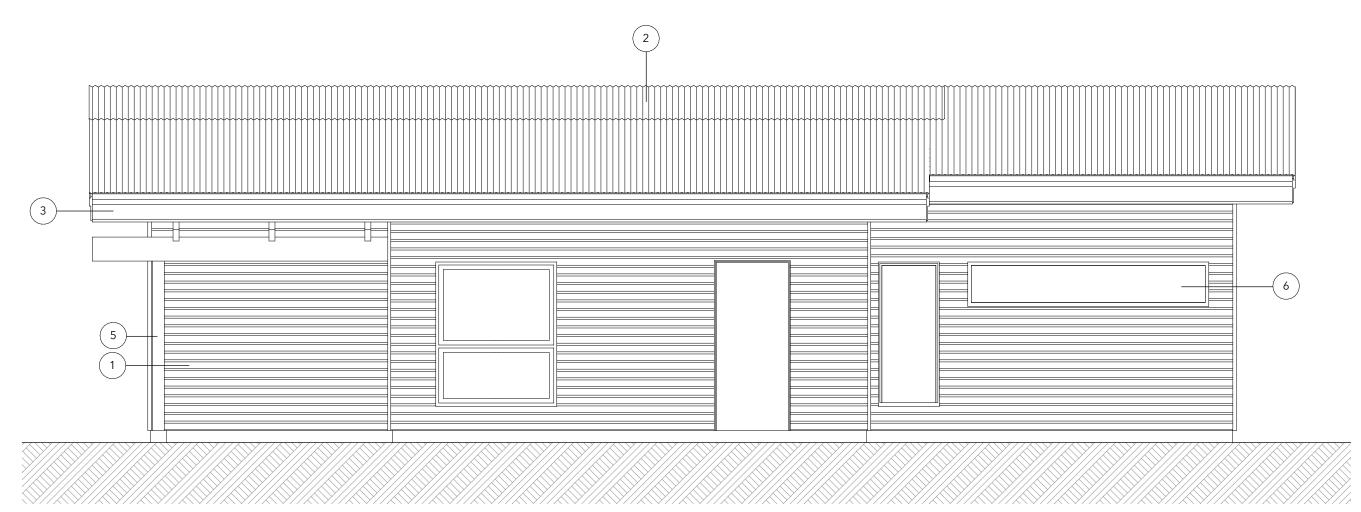
2 METAL ROOFING

3 METAL FASCIA

4 D. FIR BEAMS

5 BUILT UP OR LVL BEAMS/POSTS WRAPPED

6 TRIPLE GLAZE VINYL WINDOWS



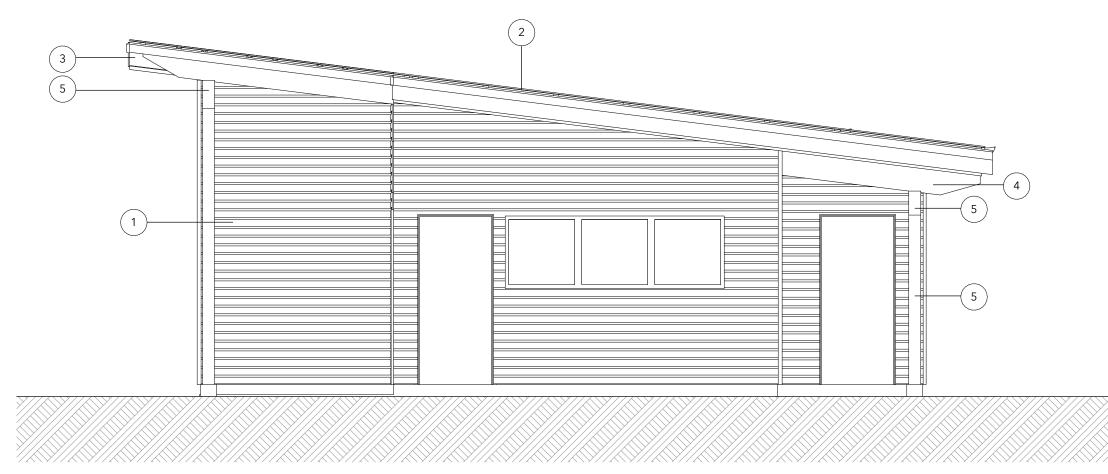
## FRONT ELEVATION

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



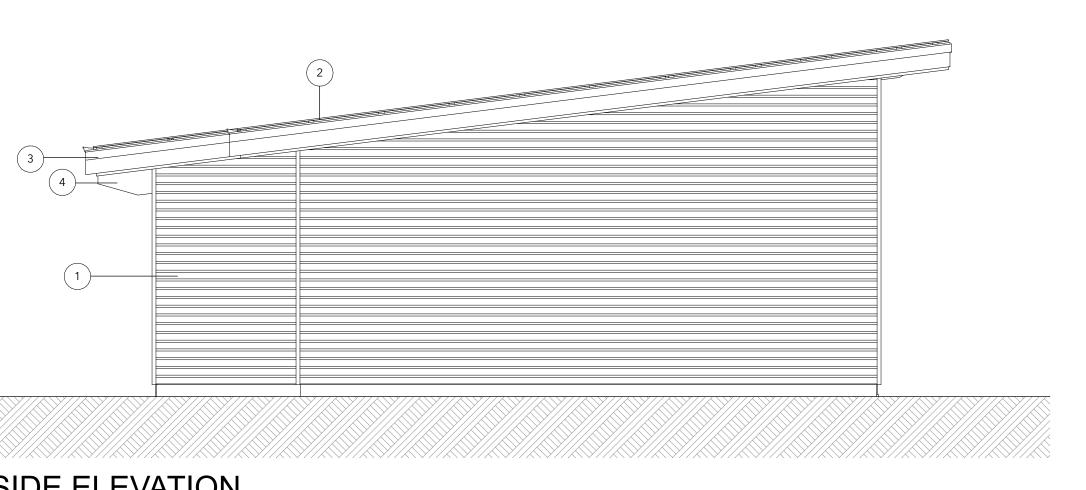
## REAR ELEVATION

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



## SIDE ELEVATION

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



Job:

Date:

Drawn:

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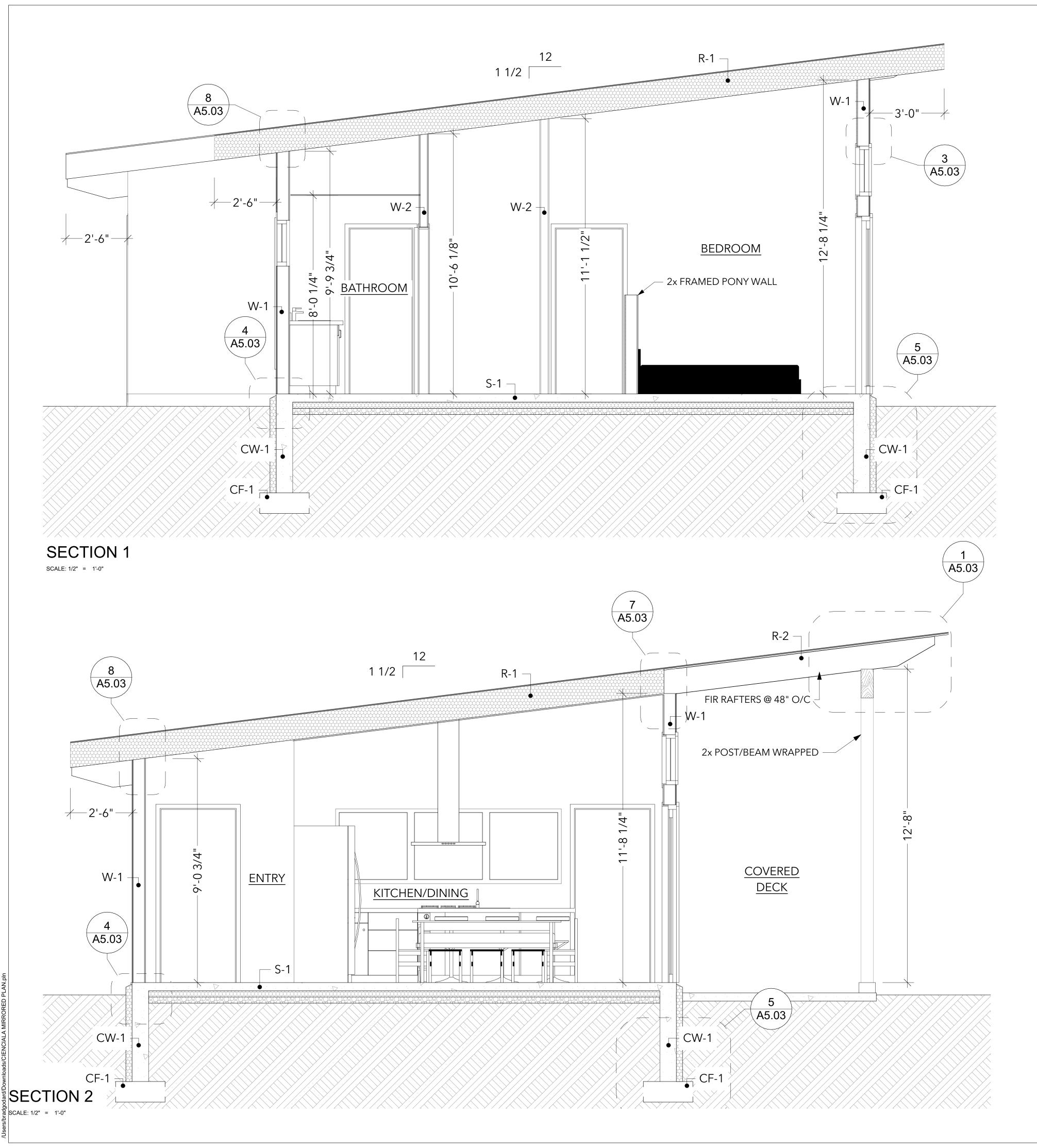
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CONSULTANT:

SIDE ELEVATION

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



## W-1

- 4.05.02: FIBRE CEMENT SIDING **COLOR: TBD**
- 4.03.03: MOISTURE BARRIER **NOVA SHIELD BUILDING WRAP**
- 3.02.13: 1/2" WALL SHEATHING **OSB OR PLYWOOD**
- 3.02.07: 2x6 WOOD STUDS @ 16" O/C **#2 OR BETTER**
- 4.02: INSULATION **R24 BATT INSULATION**
- 4.03.01: 6 MIL UV POLY TAPE AND ACOUTIC SEAL **ALL OPENINGS AND EXTRUSIONS**
- 6.02.01: 1/2" GYPSUM BOARD 1/2" GYPSUM BOARD 2 COATS LOW-VOC PRIMER 2 COATS LOW-VOC PAINT

## W-2

- 3.02.09: 2x4 WOOD STUDS@ 16" O/C **#2 OR BETTER**
- 6.02.01: 1/2" GYPSUM BOARD 1/2" GYPSUM BOARD 2 COATS LOW-VOC PRIMER 2 COATS LOW-VOC PAINT

## <u>S-1</u>

- 3.01.06: CONCRETE SLAB **4" CONCRETE**
- 4.03.01: 6 MIL UV POLY TAPE AND ACOUTIC
- **ALL OPENINGS AND EXTRUSIONS**
- 3" EPS OR XPS RIGID FOAM **BOARD** • 2.07.05: 1" CLEAR STONE

• 4.02.07: RIGID INSULATION

- 4" CLEAR ROCK LIGHTLY COMPACTED
- 5.01.07: UNDER SLAB RADON **PIPING** 4" PERFORATED PVC PIPE, TERMINATE INTO MECH ROOM AND CAP

## CF-1/CW-1

- 3.01.01: CONCRETE FOOTING 24" X 8" FOOTING 3-15M REINF. 15M TIE @ 4'-0" O.C.
- 8" CONCRETE FOUNDATION 15M VERTICAL @ 16" O/C 15M HORIZ. @ 16" O/C

## R-1

- 4.04.10: SHEET METAL ROOFING
- 4.04: MOISTURE BARRIER
- 3.02.14: 1/2" ROOF SHEATHING OSB OR PLYWOOD
- 3.02.20: ENGINEERED RAFTERS
- 4.02.09: BATT INSULATION **R28 BATT INSULATION**
- 4.03.01: 6 MIL UV POLY TAPE AND ACOUTIC SEAL ALL OPENINGS AND EXTRUSIONS

- 4.04.10: SHEET METAL ROOFING **COLOUR: TBD**
- 4.04: MOISTURE BARRIER
- 3.02.14: 1/2" ROOF SHEATHING OSB OR PLYWOOD
- 4.05.31: WOOD SOFFIT 6" x 5/8"
- 3.02.27: TIMBER RAFTER

- 3.01: CONCRETE FOUNDATION
- 4.02.07: RIGID INSULATION 3" EPS OR XPS RIGID FOAM BOARD

- COLOUR: TBD

- ENGINEERED I BEAM RAFTERS @ 24" O/C
- 6.02.01: 1/2" GYPSUM BOARD 1/2" GYPSUM BOARD 2 COATS LOW-VOC PRIMER 2 COATS LOW-VOC PAINT
- 4.05.31: WOOD SOFFIT 6" x 5/8"

## R-2

- FIR RAFTERS @ 48" O/C

**十尺口口** 

265 CN JUNCTION RD KAMLOOPS BC V2H 1K3

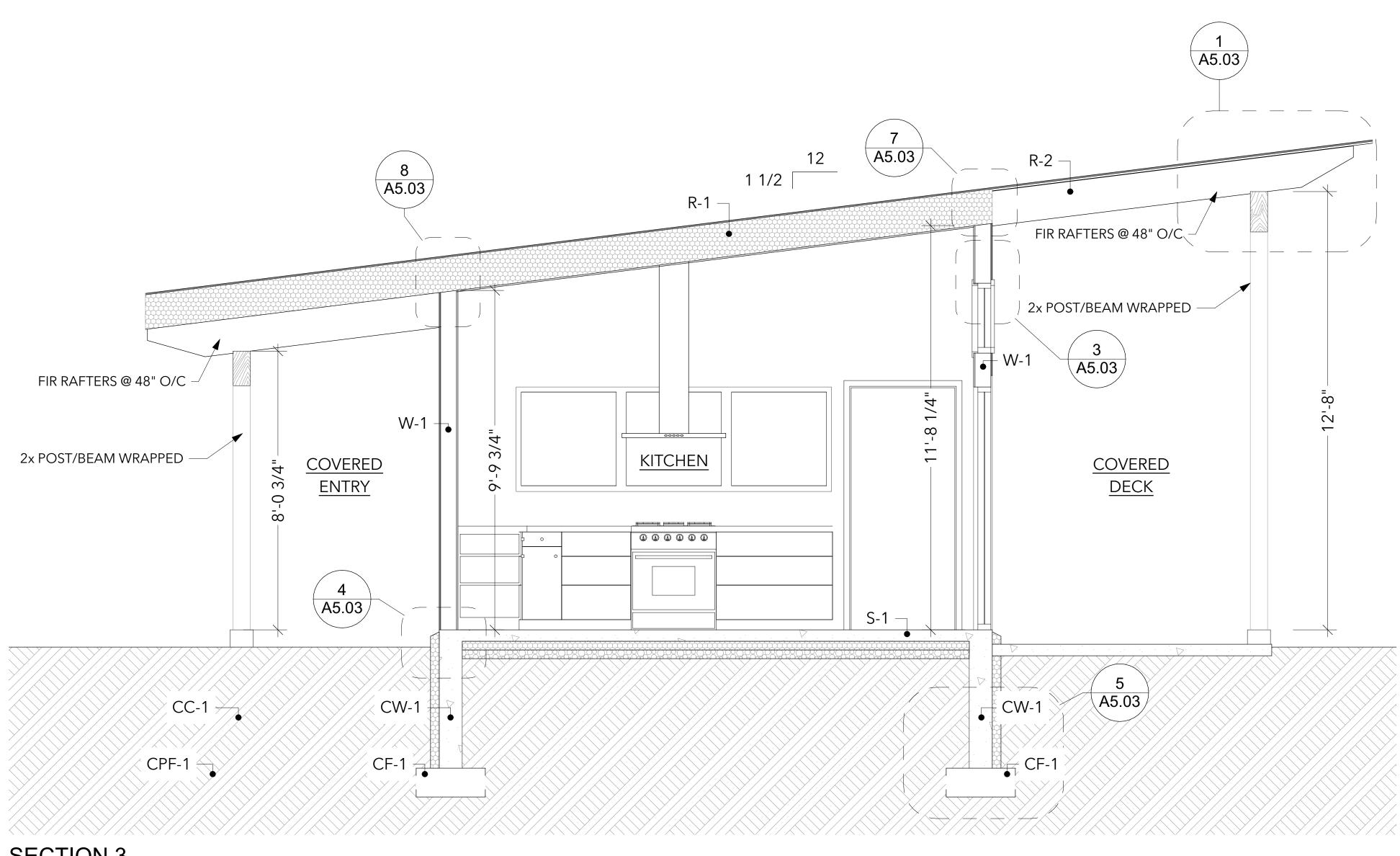
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## SECTION 3

SCALE: 1/2" = 1'-0"

## Walls Above and Not In Contact with Ground

x6 Frar	ming			
		COMPONENT	RSI VALUE	R-VALUE
1	Air Film Exterio	r	0.03	0.17
2	Fibre cement cladding		0.08	0.45
3	OSB Sheathing, 11.1mm @ .0098 RSI/mm		0.11	0.62
4		nal Lumber - 38mm X 140mm (2"X6") @ VC (R24) Nominal Cavity Fill Between Studs	2.66	15.10
5	Polyethylene Va	apour Retarder	0.00	0.00
6	Gypsum Board	, 12.7mm @ .0063 RSI/mm	0.08	0.45
7	Air Film Interior, wall (heat flow horizontal)		0.12	0.68
	:	TOTAL VALUE	3.08	17.49
		EFFECTIVE VALUE REQUIRED W/ HRV	2.97	16.86

## Roofs - Cathedral Ceilings and Flat Roofs

17.49

3.08

EFFECTIVE VALUE REQUIRED W/O HRV

0.17 0.00
0.00
26.52
0.45
0.62
27.77
26.52
26.52

## Unheated Floor on Ground Above Frost Line

4" Conc	rete Slab			
		COMPONENT	RSI VALUE	R-Value
1	Air Film Interio	r	0.16	0.91
2	Concrete Slab	100 mm @ 0.0004 RSI/mm	0.04	0.23
3	Expanded Poly	styrene (EPS) 76mm @ 0.035 RSI/mm	2.66	15.10
			RSI	R-value
		TOTAL VALUE	2.86	16.24
		EFFECTIVE VALUE REQUIRED W/ HRV	1.96	13.20
		EFFECTIVE VALUE REQUIRED W/O HRV	1.96	13.20

## W-1

- 4.05.02: FIBRE CEMENT SIDING **COLOR: TBD**
- 4.03.03: MOISTURE BARRIER NOVA SHIELD BUILDING WRAP
- 3.02.13: 1/2" WALL SHEATHING OSB OR PLYWOOD
- 3.02.07: 2x6 WOOD STUDS @ 16" O/C #2 OR BETTER
- 4.02: INSULATION **R24 BATT INSULATION**
- 4.03.01: 6 MIL UV POLY TAPE AND ACOUTIC SEAL ALL OPENINGS AND EXTRUSIONS
- 6.02.01: 1/2" GYPSUM BOARD 1/2" GYPSUM BOARD 2 COATS LOW-VOC PRIMER 2 COATS LOW-VOC PAINT

## W-2

- 3.02.09: 2x4 WOOD STUDS@ 16" O/C #2 OR BETTER
- 6.02.01: 1/2" GYPSUM BOARD 1/2" GYPSUM BOARD 2 COATS LOW-VOC PRIMER 2 COATS LOW-VOC PAINT

## S-1

- 3.01.06: CONCRETE SLAB **4" CONCRETE**
- 4.03.01: 6 MIL UV POLY TAPE AND ACOUTIC

**ALL OPENINGS AND** 

**EXTRUSIONS** 

- 4.02.07: RIGID INSULATION 3" EPS OR XPS RIGID FOAM **BOARD**
- 2.07.05: 1" CLEAR STONE 4" CLEAR ROCK LIGHTLY COMPACTED
- 5.01.07: UNDER SLAB RADON PIPING 4" PERFORATED PVC PIPE, TERMINATE INTO MECH ROOM AND CAP

## CF-1/CW-1

- 3.01.01: CONCRETE FOOTING 24" X 8" FOOTING 3-15M REINF. 15M TIE @ 4'-0" O.C.
- 3.01: CONCRETE FOUNDATION 8" CONCRETE FOUNDATION 15M VERTICAL @ 16" O/C
- 4.02.07: RIGID INSULATION

- 4.04.10: SHEET METAL ROOFING **COLOUR: TBD**
- 3.02.14: 1/2" ROOF SHEATHING **OSB OR PLYWOOD**
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- 3.02.14: 1/2" ROOF SHEATHING OSB OR PLYWOOD
- 4.05.31: WOOD SOFFIT 6" x 5/8"
- 3.02.27: TIMBER RAFTER

- 15M HORIZ. @ 16" O/C
- 3" EPS OR XPS RIGID FOAM BOARD

- 4.04: MOISTURE BARRIER
- ENGINEERED I BEAM RAFTERS @ 24" O/C
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- ALL OPENINGS AND EXTRUSIONS
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- FIR RAFTERS @ 48" O/C

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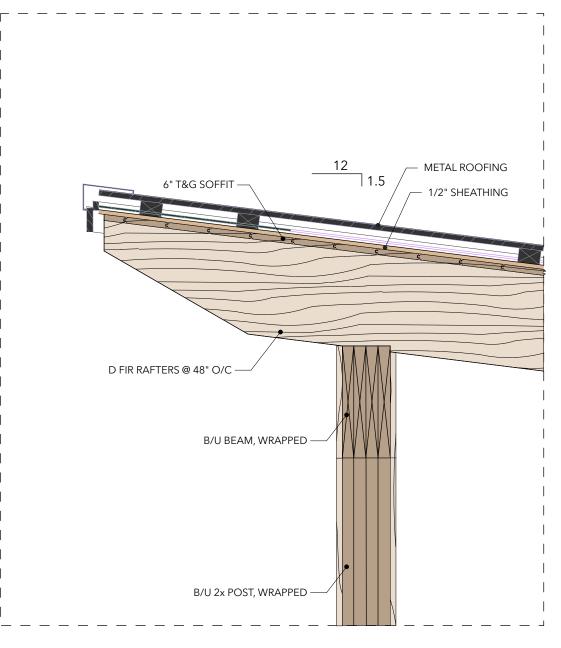
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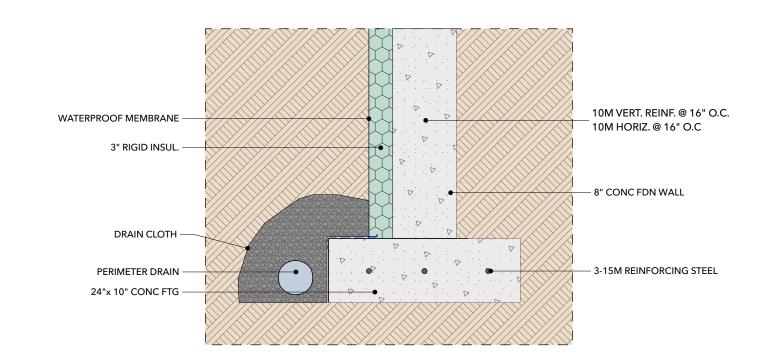
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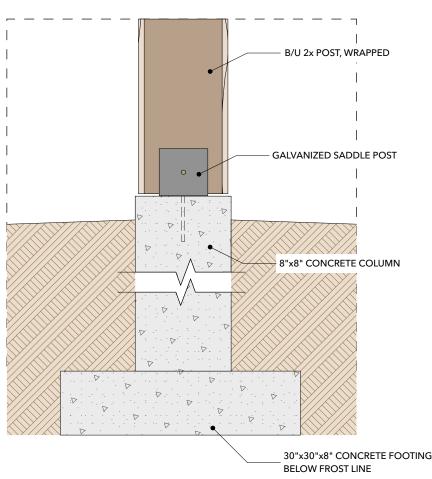
A5.02

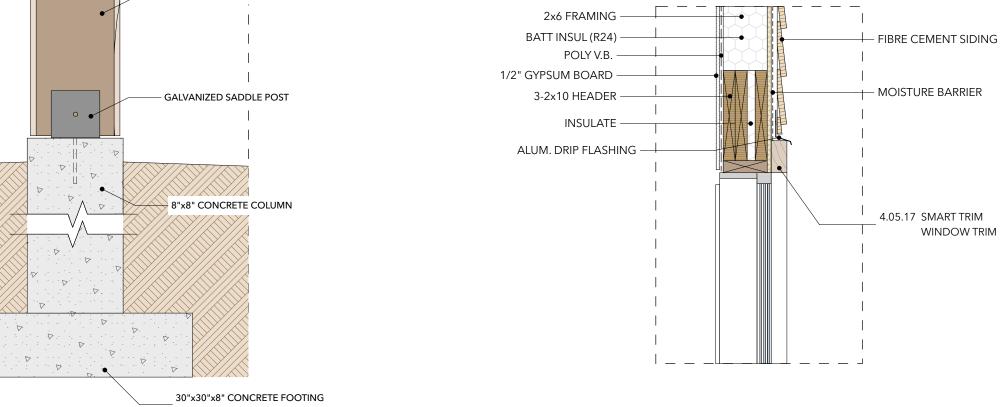






FOUNDATION WALL DETAIL SCALE: 1" = 1'-0"

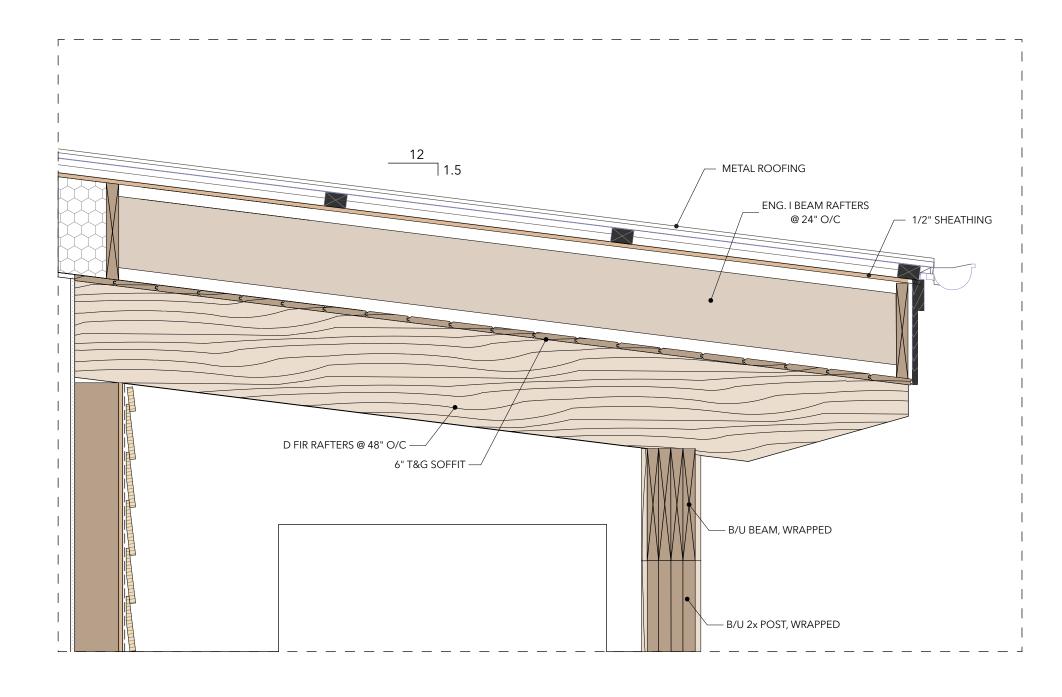




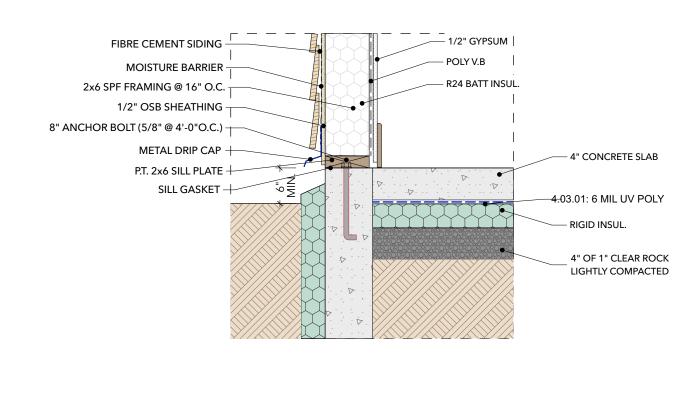
POST DETAIL

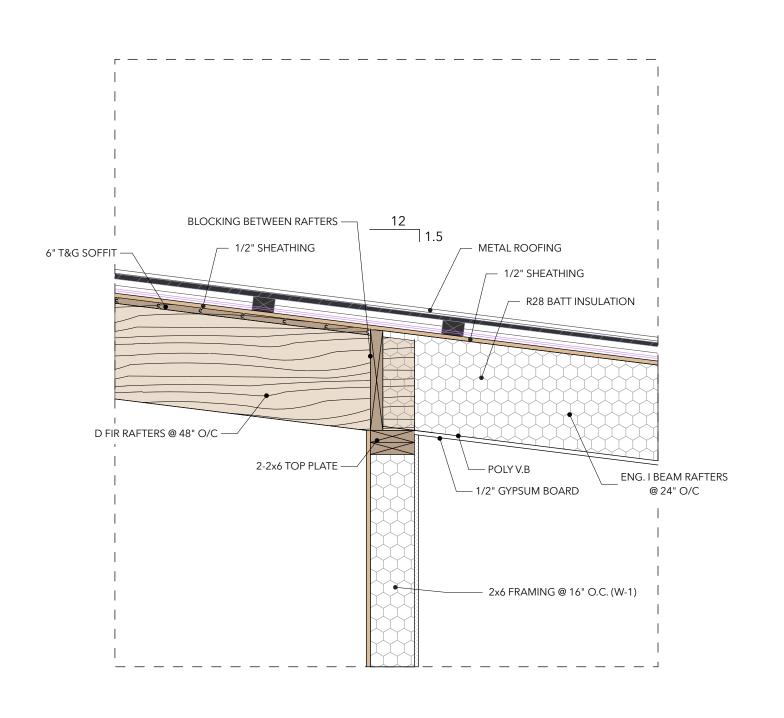
SCALE: 1" = 1'-0"



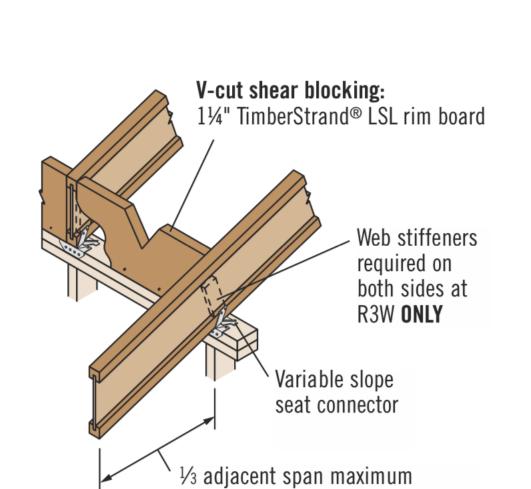


COVERED ENTRY





COVERED DECK RAFTERS SCALE: 1" = 1'-0"



(3½" minimum bearing required)

**Intermediate Bearing** 

Slopes 3:12 or less: One 8d (0.113" x  $2\frac{1}{2}$ ") nail each side. Slopes greater than 3:12 (for depths  $\leq$  16" only): Two 8d (0.113" x 2½") nails each side, plus a twist strap and backer block.

When slope exceeds 1/4:12 for a 2x4 wall or 1/8:12 for a 2x6 wall, a beveled bearing plate or variable slope seat

IF THE ABOVE DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING WILL HAVE BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES. BY REVISIONS DATE BG IFC 21/5/10 2021-05-10 AS NOTED

CONSULTANT:

A5.03

Job:

Plotted On: 2021-05-10

RAFTER TO WALL CONNECTION connector is required. SCALE: 1" = 1'-0"