











Presented by:  
**Beebe Cline - PREC**

Hugh & McKinnon Realty Ltd.  
Phone: 604-830-7458  
www.whiterocklifestyles.com  
bcline@shaw.ca



**Active**  
**R2269978**

Board: F  
House/Single Family

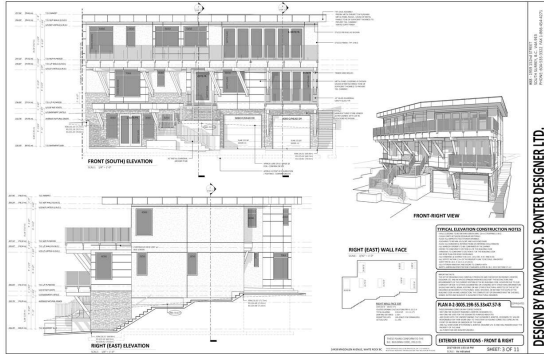
**14439 MAGDALEN AVENUE**

South Surrey White Rock  
White Rock  
V4B 2X5

Residential Detached

**\$3,398,000** (LP)

(SP)



Sold Date: Frontage (feet): **79.60** Original Price: **\$3,398,000**  
Meas. Type: **Feet** Bedrooms: **5** Approx. Year Built: **2018**  
Depth / Size: **75.50** Bathrooms: **6** Age: **0**  
Lot Area (sq.ft.): **6,011.00** Full Baths: **5** Zoning: **RS-1**  
Flood Plain: **No** Half Baths: **1** Gross Taxes: **\$8,005.65**  
Rear Yard Exp: **Northwest** For Tax Year: **2017**  
Council Apprv?: Tax Inc. Utilities?: **No**  
If new, GST/HST inc?: **No** P.I.D.: **007-373-791**  
Tour: **Virtual Tour URL**

View: **Yes: Beach, Ocean, San Juan Islands**  
Complex / Subdiv: **White Rock Ocean View Westside**  
Services Connected: **Electricity, Natural Gas, Sanitary Sewer, Storm Sewer, Water**

Style of Home: **3 Storey**  
Construction: **Frame - Wood**  
Exterior: **Metal, Stucco**  
Foundation: **Concrete Perimeter**  
Rain Screen: **Full**  
Renovations: **Full**  
# of Fireplaces: **3**  
Fireplace Fuel: **Natural Gas**  
Water Supply: **City/Municipal**  
Fuel/Heating: **Heat Pump, Natural Gas, Radiant**  
Outdoor Area: **Balcny(s) Patio(s) Dck(s), Fenced Yard, Sundeck(s)**  
Type of Roof: **Torch-On**

Reno. Year:  
R.I. Plumbing:  
R.I. Fireplaces:

Total Parking: **5** Covered Parking: **2** Parking Access: **Front**  
Parking: **Garage; Double, Open, Visitor Parking**  
Dist. to Public Transit: **3 Blks** Dist. to School Bus: **4 Blks**  
Title to Land: **Freehold NonStrata**  
Property Disc.: **No**  
PAD Rental:  
Fixtures Leased: **No**  
Fixtures Rmvd: **No**  
Floor Finish: **Hardwood, Tile**

Legal: **PL NWP36692 LT 95 LD 36 SEC 10 TWP 1.**

Amenities: **Air Cond./Central, Elevator, Guest Suite, In Suite Laundry, Sauna/Steam Room, Wheelchair Access**

Site Influences: **Central Location, Marina Nearby, Paved Road, Private Yard, Recreation Nearby, Shopping Nearby**  
Features: **Air Conditioning, ClthWsh/Dryr/Frdg/Stve/DW, Garage Door Opener, Heat Recov. Vent., Pantry, Security System, Sprinkler - Fire,**

Floor	Type	Dimensions	Floor	Type	Dimensions	Floor	Type	Dimensions
Above	Great Room	13' x 17'2	Main	Walk-In Closet	5'5 x 6'2			x
Above	Dining Room	12' x 17'6	Main	Bedroom	12'1 x 12'1			x
Above	Kitchen	14' x 17'9	Main	Walk-In Closet	8'10 x 4'7			x
Above	Wok Kitchen	11'5 x 9'2	Main	Laundry	8' x 6'7			x
Above	Office	11'7 x 8'7	Below	Bar Room	11'7 x 5'7			x
Above	Bedroom	12' x 14'	Below	Recreation	23' x 15'3			x
Main	Walk-In Closet	5'9 x 9'1	Below	Mud Room	13' x 8'			x
Main	Master Bedroom	14'1 x 10'5	Below	Storage	11'1 x 7'10			x
Main	Walk-In Closet	11'7 x 9'2	Below	Bedroom	11'7 x 11'			x
Main	Bedroom	12'7 x 12'1			x			

Finished Floor (Main): **1,646**  
Finished Floor (Above): **1,358**  
Finished Floor (Below): **0**  
Finished Floor (Basement): **1,033**  
Finished Floor (Total): **4,037 sq. ft.**

Unfinished Floor: **0**  
Grand Total: **4,037 sq. ft.**

# of Rooms: **19**  
# of Kitchens: **2**  
# of Levels: **3**  
Suite: **Legal Suite**  
Crawl/Bsmt. Height:  
Beds in Basement: **0** Beds not in Basement: **5**  
Basement: **Fully Finished, Separate Entry**

Bath	Floor	# of Pieces	Ensuite?
1	Above	3	Yes
2	Above	2	No
3	Main	5	Yes
4	Main	3	Yes
5	Main	3	Yes
6	Below	3	No
7			
8			

Outbuildings  
Barn:  
Workshop/Shed:  
Pool:  
Garage Sz: **25x23**  
Door Height: **7'**

Listing Broker(s): **Hugh & McKinnon Realty Ltd.**

**A Raymond Bonter Designed Home with Area 3 Interior Designer, completes December 2018. Gorgeous White Rock westside, hillsdie ocean view home from all three floors. Features include elevator, h/e heat pump, A/C radiant heated floors, 5 bedrooms ensuite and over 1,000 feet of open & covered decks, with stand off glass railings, built-in BBQ area and natural gas firepit. Great room concept and all Euro line doors & windows. Top flight kitchen & wok kitchen with SubZero/Wolf appliances, huge Island and 3 natural gas fireplaces. Games room with bar at walk-out basement. Oversized double garage. School catchments: Bayridge Elementary & Semiahmoo Secondary with IB program. Quiet street - no traffic. Still time to choose finishing on new build.**

## Main Kitchen:

48" side by side fridge/freezer: <http://www.subzero-wolf.com/sub-zero/full-size-refrigeration/builtin-refrigerators/48-inch-built-in-side-by-side-refrigerator-freezer-panel-ready>

36" rangetop: <http://www.subzero-wolf.com/wolf/cooktops-and-rangetops/range-top/36-inch-sealed-burner-rangetop-6-burners>

36" chimney style hood: <https://www.venmar.ca/6-range-hood-cc32i.html>

30" wall oven: <http://www.subzero-wolf.com/wolf/ovens/e-series/30-inch-e-series-transitional-built-in-single-oven>

30" steam convection oven: <http://www.subzero-wolf.com/wolf/ovens/steam-oven/30-inch-e-series-transitional-convection-steam-oven>

24" dishwasher: <http://www.askona.com/dishwashers/built-in/d5636xxls-hi>

## Fry Kitchen:

30" all gas range: <http://www.fulgor-milano.com/us/f6pgr304s1/>

30" hoodfan: <http://www.fulgor-milano.com/us/f6ph30s1/>

24" dishwasher: <https://www.blombergappliances.com/products/dishwashers/front-control/24-inch-front-control-dishwasher-dwt28500ss.html>

Microwave with 27" trim kit: <https://www.panasonic.com/ca/consumer/home-appliances/microwave-ovens/countertop/nn-sd765s.html>

## Great Room:



24" beverage fridge: [https://  
www.agamarvel.com/marvel/products/beverage-centers/ml24bcg1/](https://www.agamarvel.com/marvel/products/beverage-centers/ml24bcg1/)

## Rec Room Bar Area:

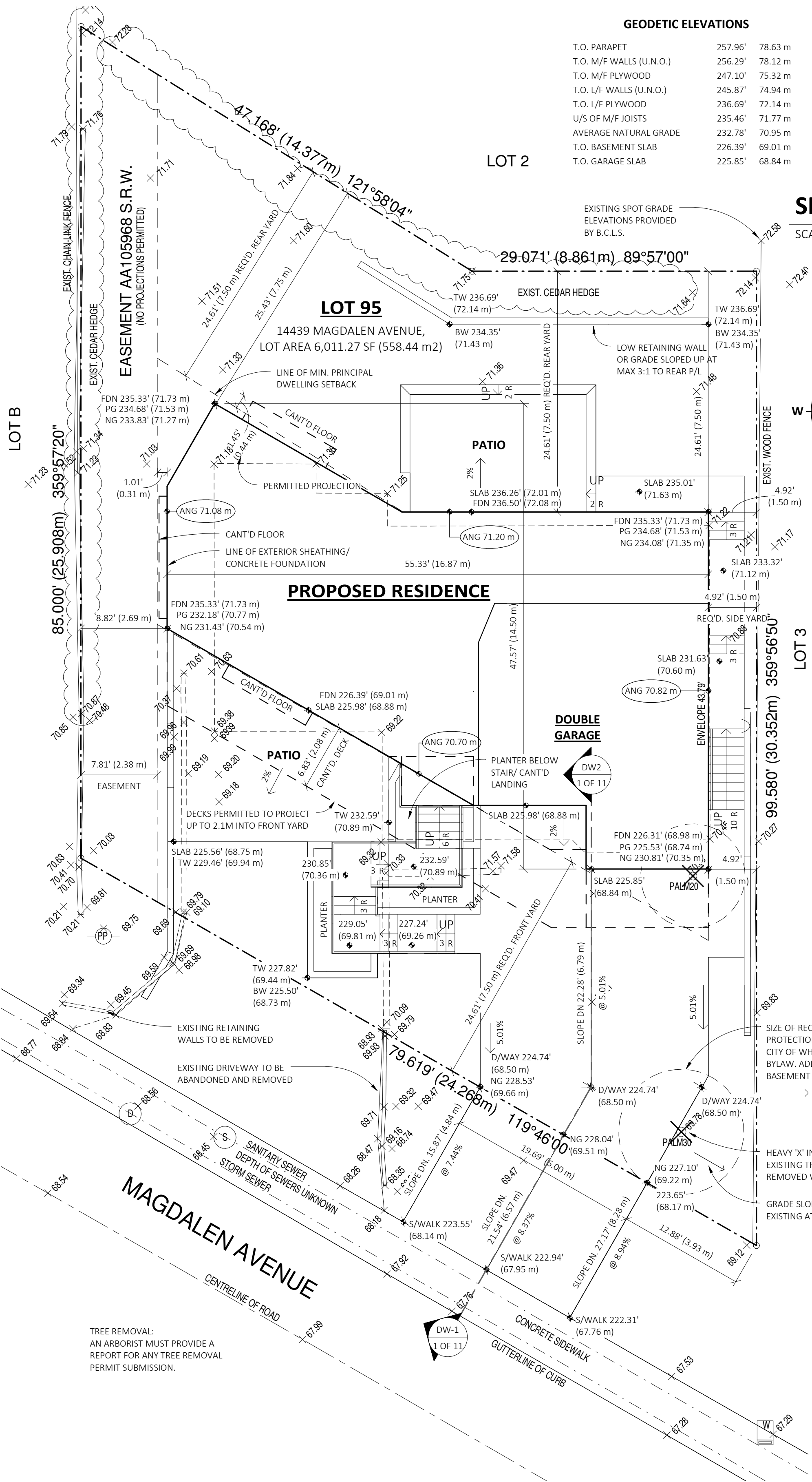
24" euro style fridge/freezer: [http://www.lg.com/ca\\_en/  
refrigerators/lg-LBNC12551V](http://www.lg.com/ca_en/refrigerators/lg-LBNC12551V)

24" dishwasher: [https://  
www.blombergappliances.com/products/dishwashers/front-control/24-  
inch-front-control-dishwasher-dwt28500ss.html](https://www.blombergappliances.com/products/dishwashers/front-control/24-inch-front-control-dishwasher-dwt28500ss.html)

## Laundry:

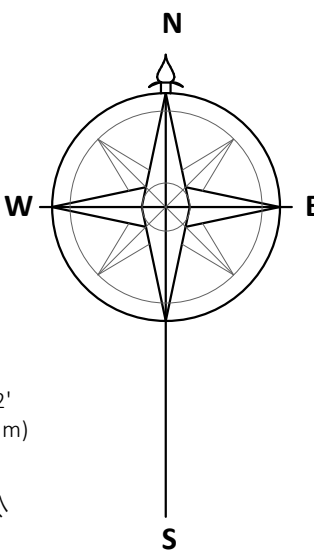
27" washer: [http://  
www.samsung.com/ca/washing-machines/combo-wfdv6300/](http://www.samsung.com/ca/washing-machines/combo-wfdv6300/)

27" dryer: [http://  
www.samsung.com/ca/washing-machines/combo-dve45n6300v/](http://www.samsung.com/ca/washing-machines/combo-dve45n6300v/)



### SITE PLAN

SCALE: 1/8" = 1'-0"



### PROJECT INFORMATION

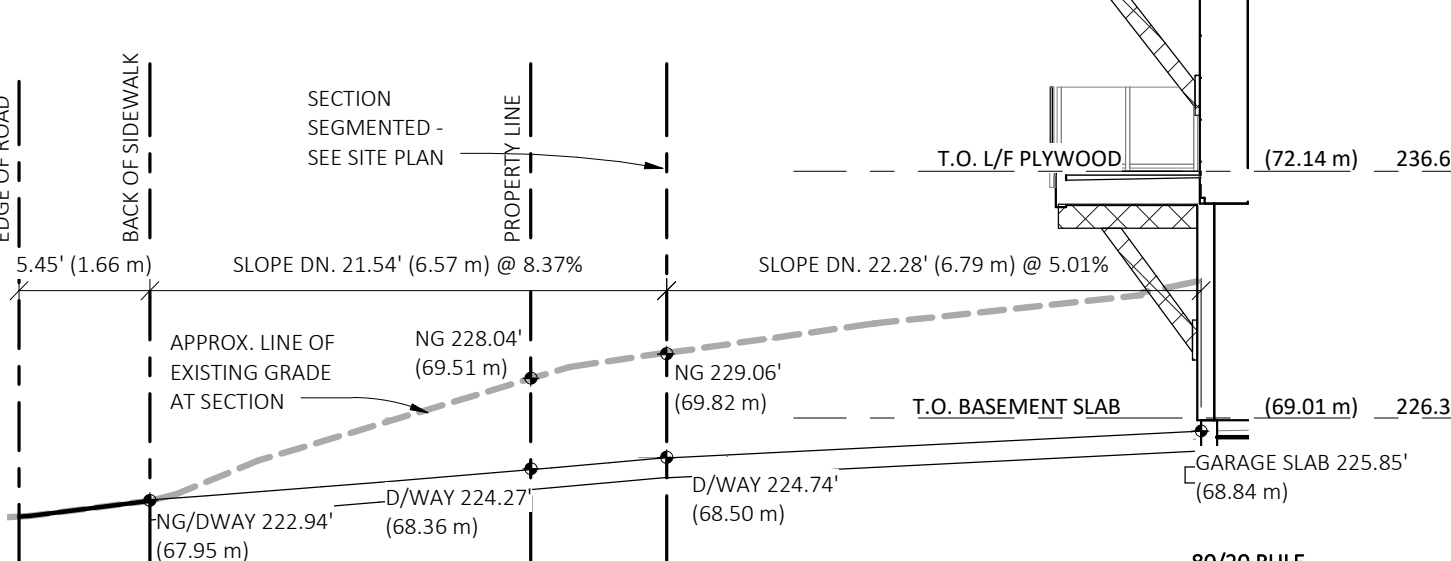
CLIENT NAME	BAJINDER SANDHU
PROPERTY OWNER	BAJINDER SANDHU
PRINCIPAL ADDRESS	14439 MAGDALEN AVENUE, WHITE ROCK B.C.
PROJECT TYPE	PROPOSED NEW SINGLE FAMILY DWELLING
AUTHORITY HAVING JURISDICTION	CITY OF WHITE ROCK
LEGAL DESCRIPTION	LT 95 SEC 10 NW/4 PL 36692/TWP 1/ NWP36692 P.L.D. 007-373-791
TITLE SEARCH COMPLETED	YES - S.R.W. ON WEST SIDE OF LOT
ZONE	RS-1 - ZONING BYLAW 2000 2013
SUBDIVISION	INFILL LOT
DESIGN CONTROL CONSULTANT	NOT REQUIRED
BUILDER	OWNER/BUILDER

### GENERAL PROJECT NOTES

- DIMENSIONS TO BE TAKEN FROM OUTSIDE FACE OF SHEATHING FOR EXT. WALLS AND CENTRE OR FACE OF STUDS FOR INT. WALLS AS SHOWN.
- ALL HEIGHT DIMENSIONS ON FLOOR PLANS ARE FROM TOP OF FLOOR PLYWOOD
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR BUILDER TO CHECK AND VERIFY ALL DIMENSIONS AND TO ENSURE ALL WORK CONFORMS TO ALL LOCAL BYLAWS AND REGULATIONS, AND TO THE CURRENT EDITION OF THE BRITISH COLUMBIA BUILDING CODE.
- THE OWNER AND/OR CONTRACTOR IS TO ENSURE THAT THE LANDSCAPING MEETS THE REQUIREMENTS OF THE APPLICABLE BY-LAWS AND REGULATIONS IN EFFECT AT THE TIME OF CONSTRUCTION. IF NECESSARY, UTILIZE PLANTING BEDS AROUND THE BUILDING(S) TO ENSURE THE FINISHED LOT GRADING BLENDS INTO THE EXISTING LOT GRADING.
- BRING FOOTINGS TO UNDISTURBED, SOUND BEARING SOIL BELOW FROSTLINE (18" MIN. BELOW GRADE)
- APPLY ASPHALT EMULSION TO FOUNDATION WALLS BELOW GRADE
- FOUNDATION CONCRETE STRENGTH TO BE MIN. 20 MPa
- INTERIOR SLAB CONCRETE STRENGTH TO BE MIN. 20 MPa
- EXTERIOR SLAB CONCRETE STRENGTH TO BE MIN. 32 MPa WITH 5-8% AIR ENTRAINMENT
- LUMBER IN CONTACT WITH CONCRETE TO BE DAMPROOFED, AND ANCHORED WITH 1/2" A.B. @ 6'-0" O.C. MAX
- STRUCTURAL LUMBER TO BE #2 D.F.I.R. U.N.O.
- LIMETS TO BE 2-2x10 D.F.I.R. U.N.O.
- PROVIDE SOLID LAMINATED STUDDING @ BEARING POINTS
- DOUBLE JOISTS @ PARALLEL PARTITIONS (OPT. 2x10 BLOCKING @ 24" O.C.)
- BEDROOM WINDOWS MUST CONFORM TO B.C.B.C. SEC. 9.7.1.3
- DWELLING MUST MEET CURRENT B.C. VENTILATION CODE
- MIRRORRED DOORS ARE NOT PERMITTED @ WALK-IN CLOSETS
- LINO OR EQUAL REQ'D ON BATHROOM FLOORS
- WATERPROOF WALLBOARD REQ'D AT TILE SURROUNDS @ TUBS AND SHOWERS
- PROVIDE A BOND-BREAKING MATERIAL BETWEEN FOUNDATION OR ROCK AND SLABS

### DRIVEWAY SECTION

SCALE: 1/8" = 1'-0"



#### BASEMENT FLOOR AREA

1033.73 SF (96.04 m²)

#### COVER'D PATIO

66.11 SF (6.14 m²)

#### GARAGE

563.75 SF (52.37 m²)

#### PATIO

266.66 SF (24.77 m²)

#### COVERED DRIVEWAY

34.05 SF (3.16 m²)

#### COVERED DRIVEWAY

75.00 SF (6.97 m²)

#### LOT COVERAGE

2066.21 SF (191.96 m²)

#### STAIRWELL

95.04 SF (8.83 m²)

#### MAIN FLOOR AREA

1358.77 SF (126.23 m²)

#### DECK

622.82 SF (57.86 m²)

#### PATIO

216.00 SF (20.07 m²)

#### LOWER FLOOR AREA

1646.42 SF (152.96 m²)

#### COVERED ENTRY

36.98 SF (3.44 m²)

#### COVERED DECK

75.00 SF (6.97 m²)

### SCHEMATIC AREA PLANS

SCALE: 1/16" = 1'-0"

### ZONING ANALYSIS

#### SETBACKS

STRUCTURE	FRONT YARD	REAR YARD	INT. SIDE YARD	EXT. SIDE YARD
PRINCIPAL BUILDING	24.606' (7.5m)	24.606' (7.5m) (1)	4.921' (1.5m) (3)	12.467' (3.8m) (4)
ACCESSORY BUILDING	NOT ALLOWED	4.921' (1.5m) (2)	4.921' (1.5m) (3)	12.467' (3.8m) (4)

#### SPECIAL SETBACK NOTES:

- (1) WHERE AN EXTERIOR SIDE SETBACK IS REQUIRED TO BE 24.606' (7.5m) THE REAR SETBACK MAY BE REDUCED TO 12.467' (3.8m).
- (2) WHERE AN EXTERIOR SIDE SETBACK IS REQUIRED TO BE 24.606' (7.5m) THE REAR SETBACK MUST BE INCREASED TO 12.467' (3.8m).
- (3) WHERE AN INTERIOR SIDE LOT LINE ABUTS A LANE THE REQUIRED SIDE YARD SETBACK MUST BE INCREASED TO 7.874' (2.4m).
- (4) WHERE A REAR LOT LINE ABUTS THE INTERIOR SIDE LOT LINE OF AN ADJACENT RESIDENTIAL LOT THE EXTERIOR SIDE SETBACK MUST BE INCREASED TO 24.606' (7.5m).
- THERE IS NO MINIMUM SEPARATION BETWEEN BUILDINGS ON THE SAME LOT.

PERMITTED PROJECTIONS	FRONT YARD	REAR YARD	INT. SIDE YARD	EXT. SIDE YARD
ARCH. FEATURES AND CORNICES	1.0' (0.30m)	1.0' (0.30m)	1.0' (0.30m)	1.0' (0.30m)
CLADDING AND RAINTSCREEN	0.375' (0.115m)	0.375' (0.115m)	0.375' (0.115m)	0.375' (0.115m)
BAY, BOW & BOX WINDOWS (1)	1.97' (0.60m)	1.97' (0.60m)	NOT PERMITTED	1.97' (0.60m)
FRONT PORCH ROOF (2)	3.94' (1.20m)	NOT PERMITTED	NOT PERMITTED	3.94' (1.20m)
BALC., DECKS, PATIOS, STEPS (3)	6.89' (2.10m)	6.89' (2.10m)	NOT PERMITTED	4.92' (1.50m)
EAVES, GUTTERS, SILLS, SHADES (4)	3.94' (1.20m)	3.94' (1.20m)	1.97' (0.60m)	3.94' (1.20m)
CHIMNEYS AND FIREPLACES (5)	1.97' (0.60m)	1.97' (0.60m)	NOT PERMITTED	1.97' (0.60m)

#### PERMITTED PROJECTION NOTES:

- (1) BAY, BOW AND BOX WINDOWS AND CANTILEVERS MAY PROJECT A MAXIMUM OF 0.6m (2FT) INTO A FRONT, REAR OR EXTERIOR SIDE YARD SETBACK AREA (BUT NOT AN INTERIOR SIDE YARD SETBACK AREA) PROVIDED THAT SUCH PROJECTION SHALL ONLY APPLY TO THE PROJECTED FEATURE, SHALL NOT COMPRISE MORE THAN 3.0m (9.84FT) OF LINEAR DISTANCE OF ANY WALL, AND PROVIDED THAT THE PROJECTED FEATURE IS LOCATED AT LEAST 2.44m (8.0FT) FROM THE FRONT, REAR OR EXTERIOR SIDE LOT LINE
- BAY WINDOWS MAY CONTAIN A CANTILEVERED FLOOR (INCLUDED IN F.A.R.) BUT NO FOUNDATION.
- (2) STRUCTURES TO PROVIDE WEATHER PROTECTION OVER THE MAIN PEDESTRIAN ENTRANCE MAY PROJECT A MAXIMUM OF 1.2m (4.0') INTO A REQUIRED FRONT OR EXTERIOR SIDE YARD PROVIDED IT MUST BE AT LEAST 2.44m (8.0') FROM A FRONT OR EXTERIOR SIDE LOT LINE. THIS IS FOR CANTILEVERED OR WALL HUNG ELEMENTS ONLY, NOT INCLUDING POSTS.
- (3) BALCONIES, DECKS/ELEVATED PATIOS, OR STEPS MAY PROJECT BEYOND THE FACE OF THE PRINCIPAL BUILDING TO A MAXIMUM OF 1.5m INTO AN EXTERIOR SIDE YARD SETBACK, AND/OR 2.1m INTO A FRONT OR REAR YARD SETBACK, WHERE THE SETBACK BEING ENCRACHED INTO IS A MINIMUM OF 5.65m. ANY OF THESE ELEMENTS LOCATED LESS THAN 24" ABOVE FINISHED GRADE CAN BE LOCATED ANYWHERE ON THE PROPERTY.
- (4) EAVES AND GUTTERS, CORNICES, SILLS AND SUN SHADES MAY PROJECT A MAXIMUM OF 0.6m (2FT) INTO A REQUIRED INTERIOR SIDE YARD SETBACK, AND 1.2m (4FT) INTO A REQUIRED FRONT, REAR OR EXTERIOR SIDE YARD SETBACK, PROVIDED THAT WHERE AN EXTERIOR SIDE YARD SETBACK REQUIRED IS LESS THAN 3.0m (9.84FT), THE MAXIMUM PROJECTION PERMITTED IS 0.6m (2FT).

### ENERGY EFFICIENCY REQUIREMENTS

THIS HOME IS DESIGNED TO COMPLY WITH ENERGY EFFICIENCY REQUIREMENTS AND VALUES FOR CLIMATE ZONE 4 - LOWER MAINLAND AND SOUTHERN VANCOUVER ISLAND WITHOUT H.R.V. AND IS DESIGNED UNDER THE PREScriptive PATH OF CBC 2012 SECTION 9.36

#### TYPICAL ENERGY EFFICIENCY NOTES:

- VENTILATION AND DUCTING MUST BE PROVIDED AS PER B.C.B.C. 2012 SECTION 9.32
- AN AIR BARRIER MUST TO BE INSTALLED AS PER B.C.B.C. 2012 SECTION 9.36
- ALL INSULATION TO BE INSTALLED AS PER B.C.B.C. 2012 SECTION 9.36
- ALL GARAGE DOORS: MINIMUM NOMINAL R.S.I. VALUE OF 1.1
- ALL ACCESS HATCHES TO UNCONDITIONED SPACES: MAXIMUM U VALUE OF 2.6
- ALL WINDOWS AND DOORS: MAX U VALUE OF 1.8 EXCEPT FOR 3 ENTRY UNITS
- ALL SKYLIGHTS: MAXIMUM U VALUE OF 2.9

### ISSUED DRAWINGS

DATE	DESCRIPTION	INITIALS
JULY-07-2017	DRAFT W.D.	D.B.W.
JULY-07-2017	PLAN CHECK	D.B.W.
AUG-03-2017	REVISED FOR STRUCTURAL COORDINATION	D.B.W.

### FLOOR AREA SUMMARY

MAIN FLOOR AREA	1358.77 SF	126.23 m²
LOWER FLOOR AREA	1646.42 SF	152.96 m²
TOTAL ABOVE GRADE FIN. FLR AREA:	3005.19 SF	279.19 m²
GARAGE	563.75 SF	52.37 m²
BASEMENT FLOOR AREA	1033.73 SF	96.04 m²
EXTERIOR AREAS		
DECK	622.82 SF	57.86 m²
PATIO	216.00 SF	20.07 m²
COVERED ENTRY	36.98 SF	3.44 m²
COVERED DECK	75.00 SF	6.97 m²
PATIO	266.66 SF	24.77 m²
COVER'D PATIO	66.11 SF	6.14 m²
TOTAL EXTERIORS:	1283.56 SF	119.25 m²
LOT COVERAGE	2066.21 SF	191.96 m²

#### DRAWING INDEX

- 1 OF 11 SITE PLAN, ZONING ANALYSIS, SCHEMATICS
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- 3 OF 11 EXTERIOR ELEVATIONS - FRONT & RIGHT
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- 5 OF 11 FLOOR PLAN, MAIN FLOOR PLAN
- 6 OF 11 LOWER FLOOR PLAN
- 7 OF 11 BASEMENT FLOOR PLAN
- 8 OF 11 FRAMING PLANS
- 9 OF 11 SECTIONS, DETAILS
- 10 OF 11 ENERGY EFFICIENCY - ABOVE GRADE
- 11 OF 11 ENERGY EFFICIENCY - BELOW GRADE

THESE PLANS CONFORM TO THE B.C. BUILDING CODE, 2012 ED.

### ZONING ANALYSIS (CONTINUED)

LOT AREA	6,011.27 SF	558.44 m²
FLOOR AREA RATIO		
ALLOWABLE PERCENT	50%	
ALLOWABLE RES. GRS. FLR. AREA	3,005.59 SF	279.22 m²
PROPOSED PERCENT	49.99%	
PROPOSED RES. GRS. FLR. AREA	3,005.19 SF	279.19 m²
SPECIAL F.A.R. NOTES:		
- A BASEMENT IS ANY FLOOR THAT IS AT LEAST 2'-0" BELOW THE AVERAGE NATURAL GRADE. BASEMENT AREA PROJECTING BEYOND THE MAIN FLOOR PERIMETER IS NOT INCLUDED IN F.A.R.		
- IN THE RS-1 ZONE ONLY ONE BASEMENT IS PERMITTED.		
- MAXIMUM PERMITTED FLOOR AREA OF A SECOND STOREY FOR A PRINCIPAL BUILDING SHALL NOT EXCEED 80% OF THE FLOOR AREA OF THE FIRST STOREY INCLUDING ATTACHED GARAGE AND THAT PORTION OF ANY COVERED PORCH, DECK OR CARPORT. THE REDUCED FLOOR AREA OF THE SECOND STOREY SHALL BE ACCOMPISHED BY AN OFFSET AT THE SECOND STOREY LEVEL FROM THE WALL AT THE MAIN FLOOR LEVEL FROM EITHER THE FRONT OR SIDE WALLS AT THE MAIN FLOOR LEVEL, OR A COMBINATION THEREOF.		

LOT COVERAGE	45%
FOR LOTS 7,491 SF OR LESS	
FOR LOTS GREATER THAN 7,491 SF	40%
ALLOWABLE AREA	2,705.03 SF
PROPOSED PERCENT	34.37%
PROPOSED AREA	2,066.01 SF

#### SPECIAL LOT COVERAGE NOTES:

- CANTILEVERED ROOF OVERHANGS (EAVES) ARE NOT INCLUDED IN LOT COVERAGE. LOT COVERAGE IS TO SUPPORT POSTS ONLY.

#### BUILDING HEIGHT

PRINCIPLE BLDG ALLOWED *	25.26' (7.7m)	DRIVEWAY	
ACCESSORY BLDG ALLOWED *	13.12' (4.0m)	ALLOWABLE SLOPE	15.00%
PRINCIPLE BLDG PROPOSED	25.18' (7.67m)	PROPOSED SLOPE	5.01/8.37% @ C/L - VARIES
ACCESSORY BLDG PROPOSED	N/A	MAX WIDTH @ >	19.68' (6.0m)

#### BUILDING HEIGHT NOTES:

- \* HEIGHT IS TO THE HIGHEST POINT OF THE BUILDING FROM THE AV. NATURAL GRADE
- AVERAGE NATURAL GRADE IS THE AVERAGE OF THE MIDPOINT OF ALL FOUR WALLS OF A BUILDING AT THE NATURAL GRADE AS DETERMINED BY A SURVEYOR
- CHIMNEYS AND B-VENT CAPS ARE ALLOWED TO PROJECT 2'-0" ABOVE MAX BLDG. HEIGHT.

#### DRIVEWAY REQUIREMENTS:

- BOULEVARD CROSSING MUST SLOPE UP FROM ROAD TO P/V MIN. 2%.
- LOT MAY BE ACCESSED FROM BOTH LANE OR FRONTING ROAD
- PERMIT DRAWINGS MUST INCLUDE A SECTION THROUGH THE DRIVEWAY.

#### PARKING REQUIREMENTS:

- EACH SINGLE FAMILY DWELLING REQUIRES TWO OFF-STREET PARKING SPACES.
- EACH SECONDARY SUITE REQUIRES ONE OFF-STREET PARKING SPACE
- EACH OFF-STREET PARKING SPACE MUST BE MINIMUM 8.85' (2.7m) x 19.0' (5.8m).

#### SITE SERVICES:

- PERIMETER DRAINAGE BELOW THE PROVIDED STORM SERVICE CAN BE PUMPED W/ COVENANT.
- RAIN WATER LEADER SYSTEM TO BE SEPARATE AND NOT GRAVITY FED TO STORM SERVICE.
- IF SANITARY CAN BE GRAVITY FED @ 2% TO HEIGHT AT > THEN IT WON'T HAVE TO BE PUMPED.

#### SECONDARY SUITES:

- THE MAXIMUM FLOOR AREA OF A SECONDARY SUITE IS 968 SF (90 Sm) AND MAY ONLY CONTAIN NOT MORE THAN TWO BEDROOMS.
- ONLY ONE SECONDARY SUITE IS PERMITTED PER RESIDENTIAL LOT INCLUDING COACH HOUSE.
- THE ADDITIONAL OFF-STREET PARKING SPACE CANNOT BLOCK ACCESS TO THE TWO REQUIRED OFF-STREET PARKING SPACES FOR THE PRINCIPAL DWELLING.
- A SEPARATE HINGED ACCESS DOOR MUST BE PROVIDED. SLIDING DOORS ARE NOT ALLOWED.
- SUITE MUST BE REGISTERED THROUGH THE CITY'S REGISTERED SUITE PROGRAM.

#### COACH HOUSE:

- A COACH HOUSE IS ONLY PERMITTED WHERE THERE IS SECONDARY ACCESS FROM A LANE.
- THE MAXIMUM FLOOR AREA OF A SECONDARY SUITE IS 968 SF (90 Sm) (EXCLUSIVE OF VESTIBULE) AND MAY ONLY CONTAIN NOT MORE THAN TWO BEDROOMS.
- ONLY ONE SECONDARY SUITE IS PERMITTED PER RESIDENTIAL LOT INCLUDING COACH HOUSE.
- THE ADDITIONAL OFF-STREET PARKING SPACE CANNOT BLOCK ACCESS TO THE TWO REQUIRED OFF-STREET PARKING SPACES FOR THE PRINCIPAL DWELLING.
- A COACH HOUSE IS ONLY PERMITTED ABOVE A GARAGE OR CARPORT BUT IS ALLOWED TO HAVE A FOYER OR VESTIBULE AT THE MAIN FLOOR OR GARAGE LEVEL.
- SUITE MUST BE REGISTERED THROUGH THE CITY'S REGISTERED SUITE PROGRAM.

#### SPRINKLERS:

- ALL HOMES IN WHITE ROCK REQUIRE SPRINKLERS.
- AREA OF UNPROTECTED OPENINGS DOUBLES WITH USE OF SPRINKLERS.

#### TREE PROTECTION:

- ALL TREES GREATER THAN 30cm ARE PROTECTED. TREES TO BE REMOVED REQUIRE A PERMIT.
- TREES ON PUBLIC PROPERTY (BOULEVARDS) ARE ALWAYS PROTECTED AND MAY ONLY BE REMOVED WITH A TREE CUTTING PERMIT.
- TREES TO REMAIN REQUIRE TREE PROTECTION FENCING AND ARE LIMITED IN THE AMOUNT THE LIMBS OR ROOTS ARE PRUNED.

#### RENOVATION/ADDITION UPGRADES:

- IF 25% OF THE CURRENT FINISHED LIVING AREA IS ADDED AS AN ADDITION THEN THE ENTIRE HOME MUST BE RETROFITTED WITH SPRINKLERS.
- IF THE VALUE OF CONSTRUCTION IS GREATER THAN 50% OF THE ASSED VALUE OF THE EXISTING HOUSE THEN THE ENTIRE HOUSE MUST BE BROUGHT UP TO CURRENT CODE STANDARDS.

#### GEOTECHNICAL ASSESSMENT:

- IF THE LOT FALLS WITHIN THE GEOTECHNICAL LANDSLIDE ASSESSMENT ZONE AS INDICATED ON THE MAP IN THE BUILDING BYLAW THEN A GEOTECHNICAL ASSESSMENT MUST BE PROVIDED WITH ALL PERMIT APPLICATIONS.
- THIS LOT IS WITHIN THE GEOTECHNICAL ASSESSMENT ZONE.

#### IMPORTANT NOTE:

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### SITE PLAN, ZONING ANALYSIS, SCHEMATICS

# PROPOSED SANDHU RESIDENCE

14439 MAGDALEN AVENUE, WHITE ROCK BC

THESE DRAWINGS SHOULD BE PRINTED ON 34" x 22" PAPER TO BE AT SCALE INDICATED. ON REDUCED SIZE THEY WILL NOT BE TO SCALE.

2017-08-03 1:52:58 PM

SCALE: As indicated

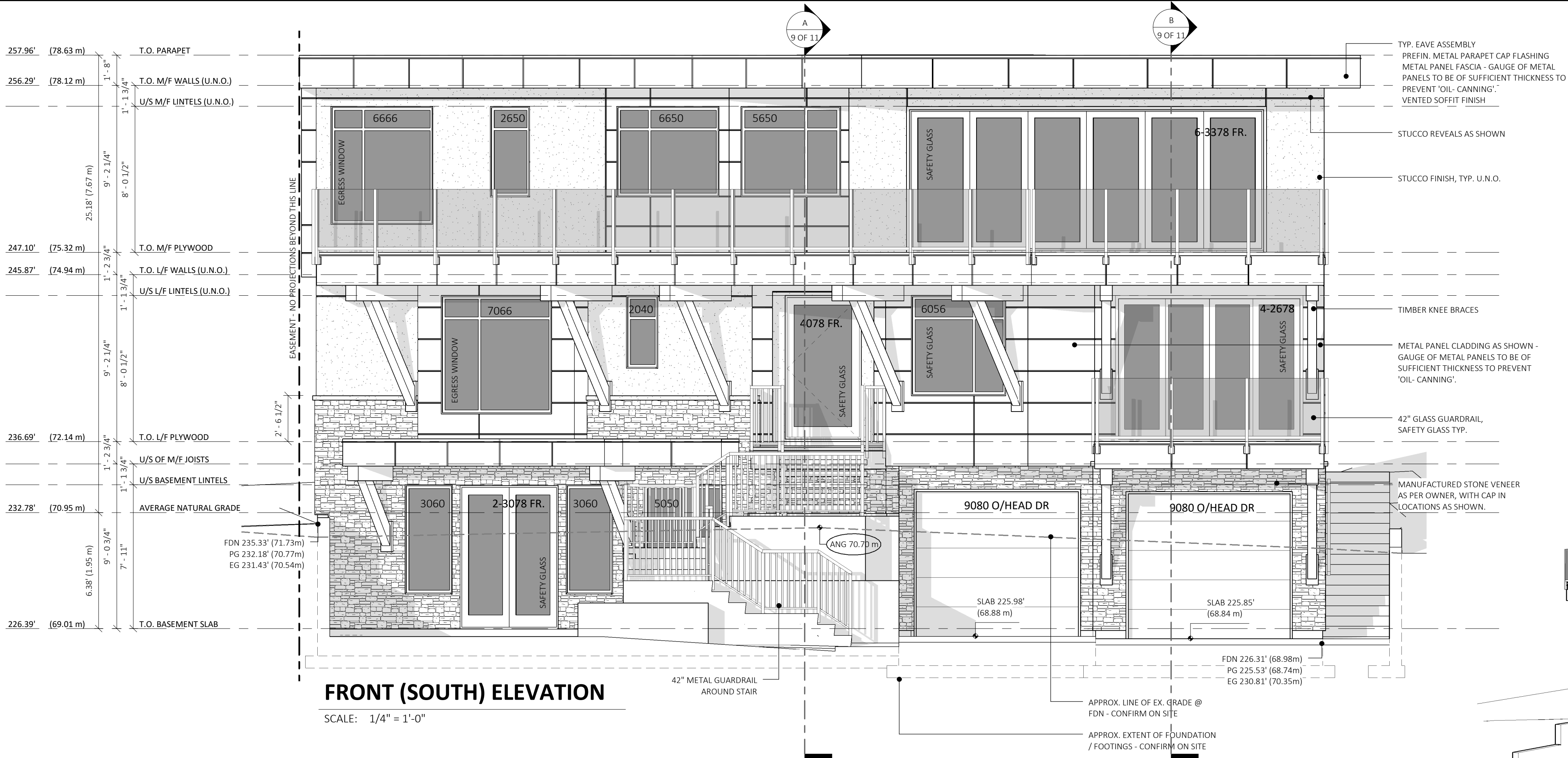
SHEET: 1 OF 11

DESIGN BY RAYMOND S. BONTER DESIGNER LTD.

#88 - 1959 152nd STREET  
SOUTH SURREY, B.C. V4A 9E3  
PHONE: 604-535-3322 FAX 1-866-454-4271  
EMAIL: info@raymondbonterdesigner.ca

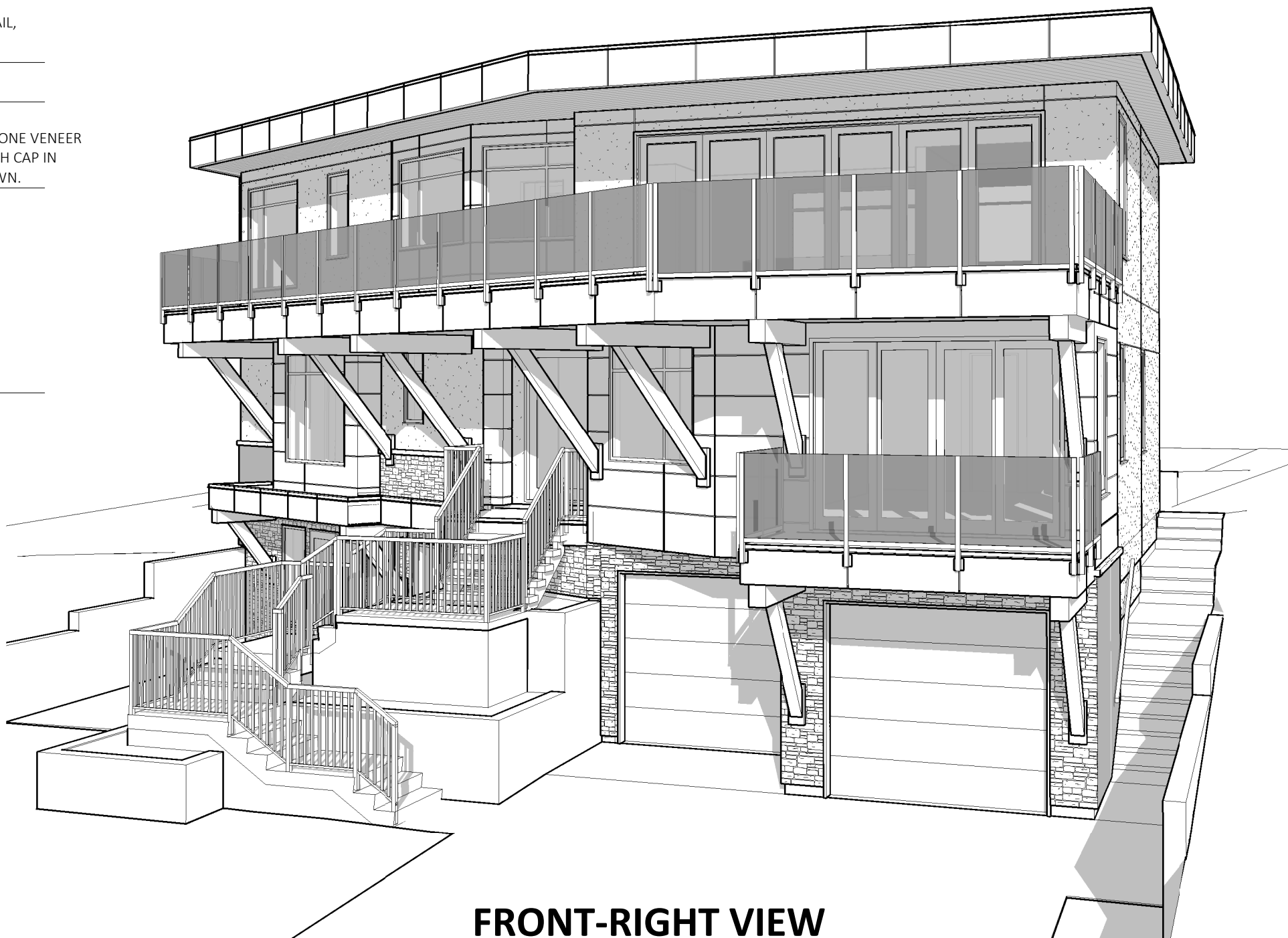






FRONT (SOUTH) ELEVATION

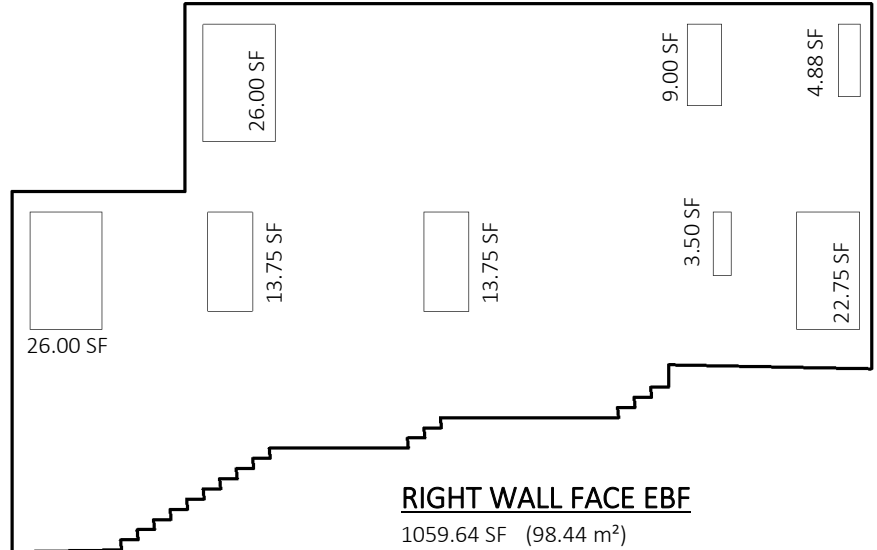
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FRONT-RIGHT VIEW

RIGHT (EAST) WALL FACE

SCALE: 3/32" = 1'-0"



**RIGHT WALL FACE EBF**  
1050.64 SF (98.44 m<sup>2</sup>)  
GLAZED OPENING CALCULATIONS PER 9.10.15.4  
TOTAL GLAZING: 119.63 SF (11.11 m<sup>2</sup>)  
LIMITING DISTANCE: 1.50m  
PERMITTED UPO: 14% (DBL'D FOR SPRINKLERS)  
ACTUAL UPO: 11.29%

**TYPICAL ELEVATION CONSTRUCTION NOTES**

- WALL CLADDING TO BE ON RAIN SCREEN (MIN. 10mm STRAPPING) U.N.O.
- CAULK JOINTS BETWEEN DISSIMILAR MATERIALS
- FLASH ALL UNPROTECTED EXTERIOR OPENINGS
- FLASHINGS TO BE MIN. 6% SLOPE AND HAVE END DAMS
- FLASH ALL HORIZONTAL INTERSECTIONS OF DIFFERING WALL FINISHES
- ALL WINDOW OPENER'S TO BE CONFIRMED BY THE OWNER
- DOORS TO CONFORM TO SECTION 9.6 OF THE BUILDING CODE
- WINDOWS TO CONFORM TO SECTION 9.7 OF THE BUILDING CODE
- SEE ROOF PLAN FOR ROOF OVERHANGS
- ALL HANDRAILS & GUARDS TO B.C.B.C. 2012 SEC. 9.8.7 AND 9.8.8
- ALL SOFFITS WITHIN 1.2m OF THE PROPERTY LINE TO BE SOLID, UNVENTED SOFFIT PER B.C.B.C. 9.10.15.5.10 (2012).
- ALL EXTERIOR WINDOWS AND DOORS TO COMPLY WITH NORTH AMERICAN FENESTRATION STANDARDS AS PER B.C.B.C. 2012 SECTION 9.7.4.2

**IMPORTANT NOTE:**  
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**EXTERIOR ELEVATIONS - FRONT & RIGHT**

THESE PLANS CONFORM TO THE  
B.C. BUILDING CODE, 2012 ED.

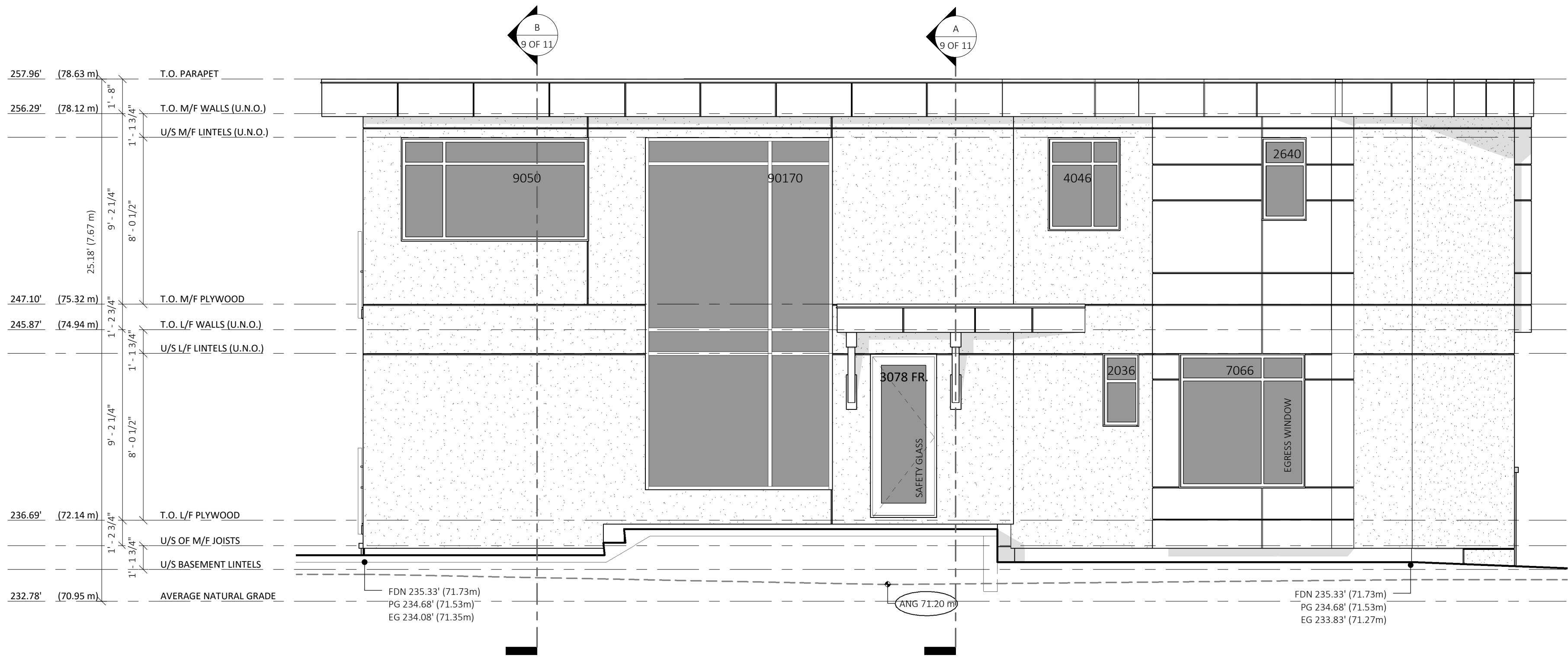
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SHEET: 3 OF 11

14439 MAGDALEN AVENUE, WHITE ROCK BC

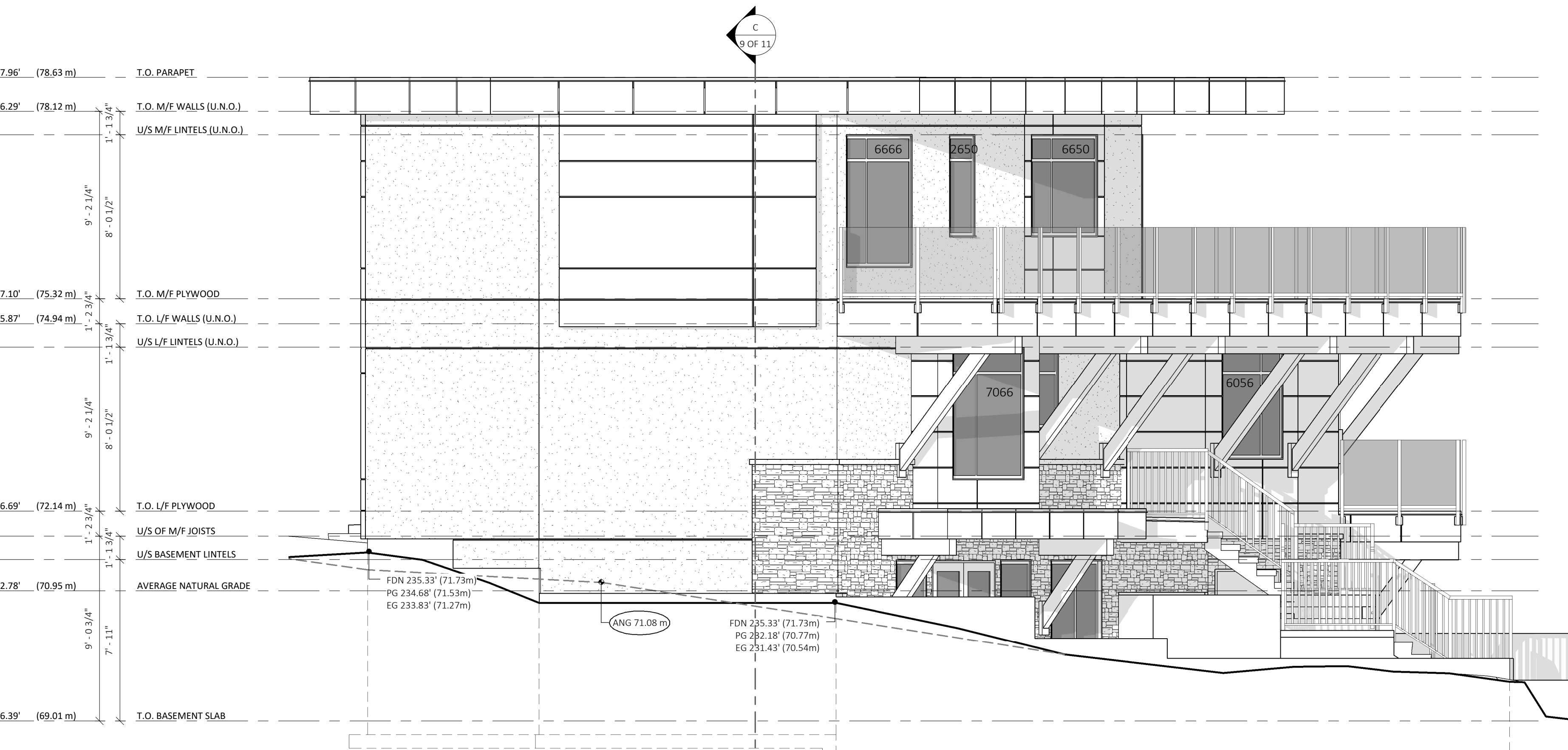
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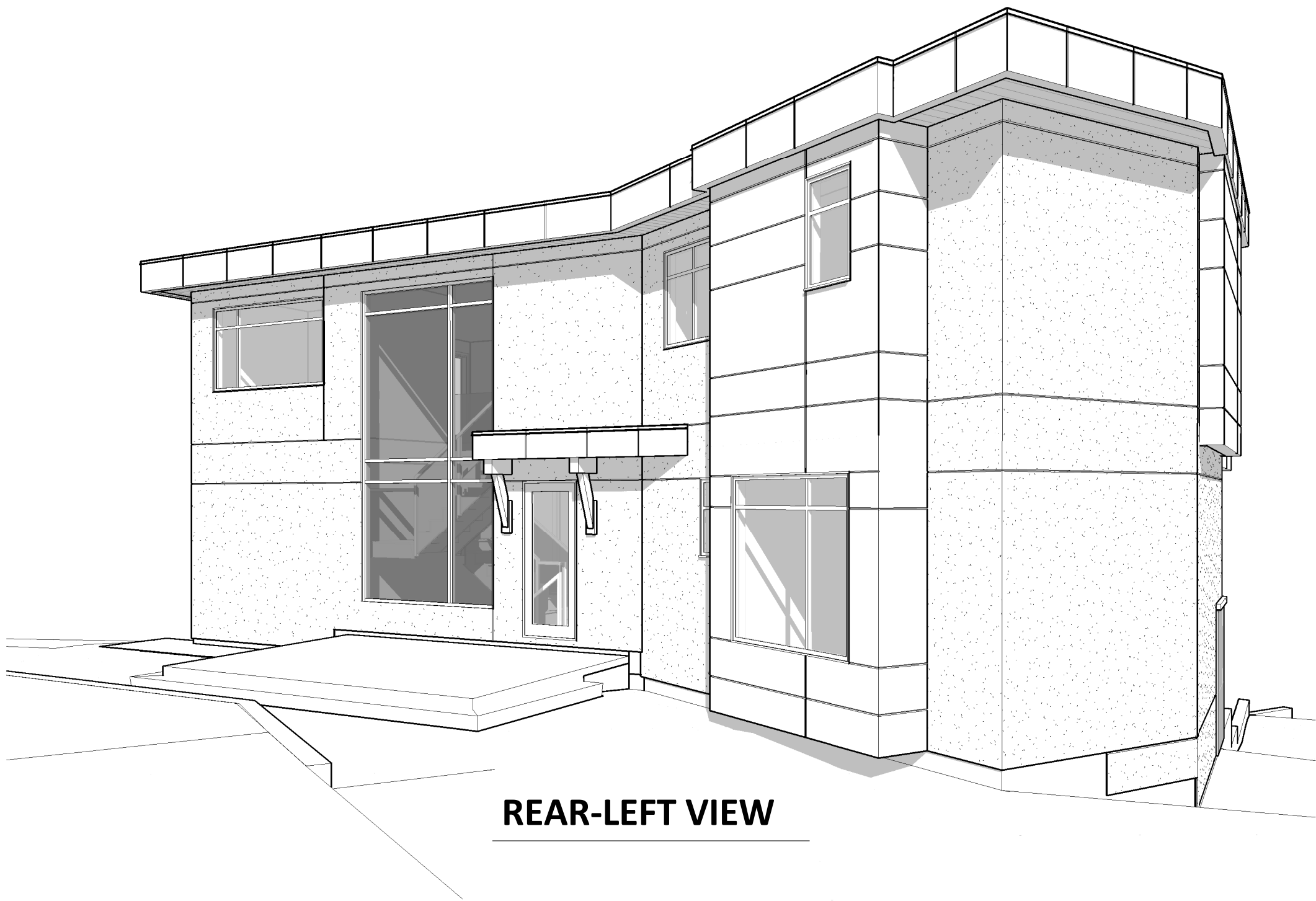
REAR (NORTH) ELEVATION

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



LEFT (WEST) ELEVATION

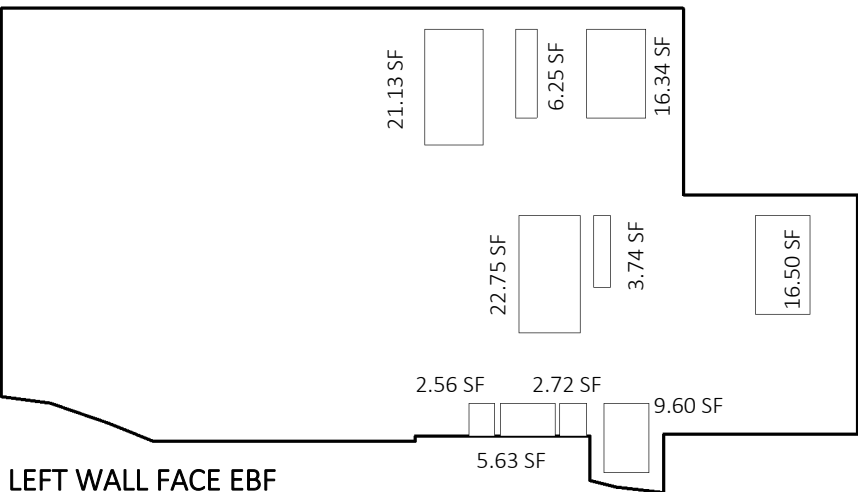
SCALE: 1/4" = 1'-0"



REAR-LEFT VIEW

### LEFT (WEST) WALL FACE

SCALE: 3/32" = 1'-0"



#### LEFT WALL FACE EBF

1036.00 SF (96.25 m<sup>2</sup>)  
GLAZED OPENING CALCULATIONS PER 9.10.15.4  
TOTAL GLAZING: 107.21 SF (9.96 m<sup>2</sup>)  
LIMITING DISTANCE: 2.91m  
PERMITTED UPO: 19.64%  
ACTUAL UPO: 10.35%

#### TYPICAL ELEVATION CONSTRUCTION NOTES

- WALL CLADDING TO BE ON RAIN SCREEN (MIN. 10mm STRAPPING) U.N.O.
- CAULK JOINTS BETWEEN DISSIMILAR MATERIALS
- FLASH ALL UNPROTECTED EXTERIOR OPENINGS
- FLASHINGS TO BE MIN. 6% SLOPE AND HAVE END DAMS
- FLASH ALL HORIZONTAL INTERSECTIONS OF DIFFERING WALL FINISHES
- ALL WINDOW OPENER'S TO BE CONFIRMED BY THE OWNER
- DOORS TO CONFORM TO SECTION 9.6 OF THE BUILDING CODE
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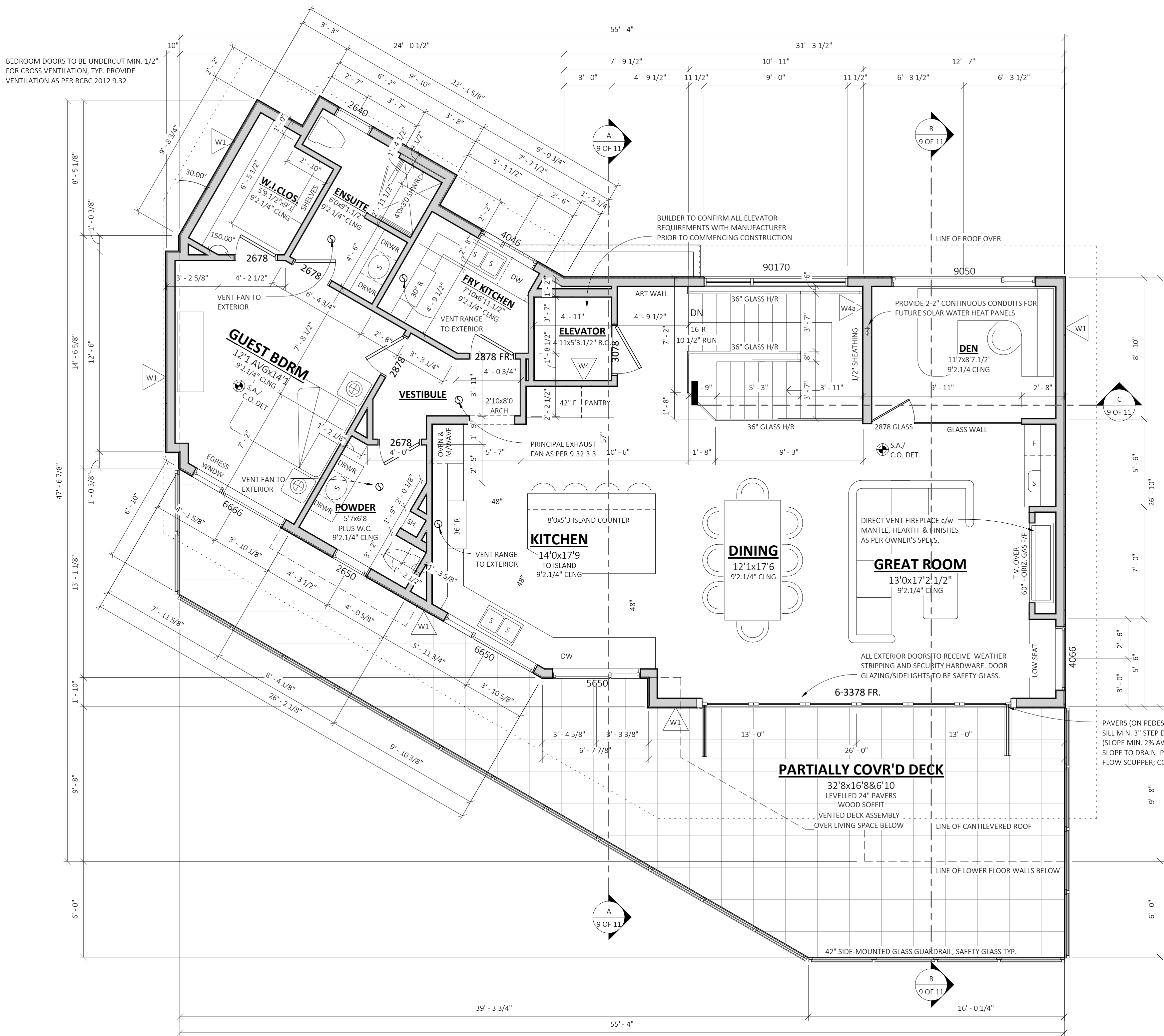
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#### EXTERIOR ELEVATIONS - REAR & LEFT

THESE PLANS CONFORM TO THE  
B.C. BUILDING CODE, 2012 ED.

BEDROOM DOORS TO BE UNDERCUT MIN. 1/2"  
FOR CROSS VENTILATION, TYP. PROVIDE  
VENTILATION AS PER BCBC 2012 9.32

**NOTE:**  
ALL WATERPROOFING/VENTING DETAILS TO BE CONFIRMED BY  
A BUILDING ENVELOPE CONSULTANT AS REQUIRED BY THE  
CITY OF WHITE ROCK.

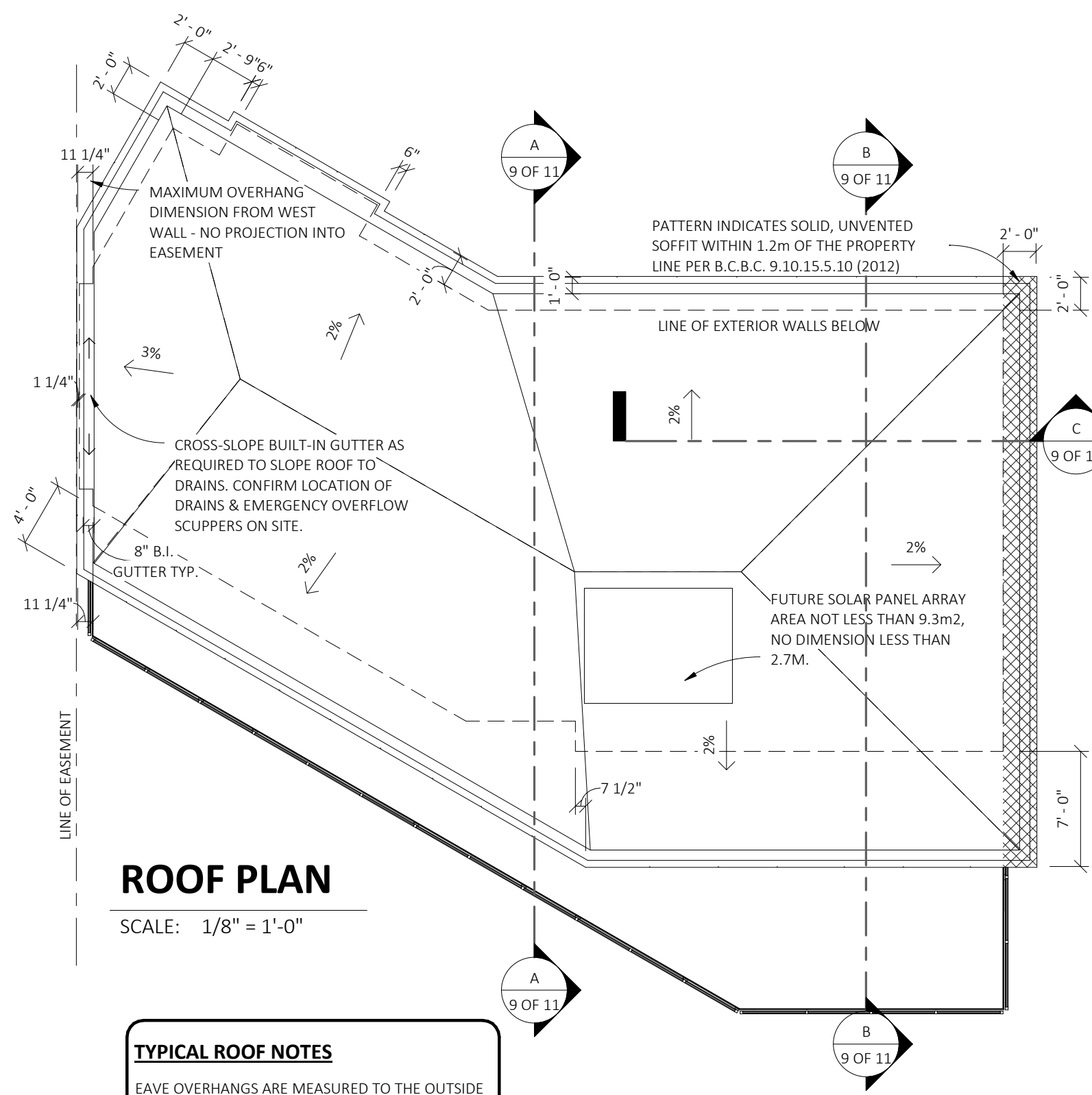


### MAIN FLOOR PLAN

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

MAIN FLOOR AREA	1358.77 SF	126.23 m <sup>2</sup>
DECK	622.82 SF	57.86 m <sup>2</sup>
TOTAL AREA:	1981.59 SF	184.10 m <sup>2</sup>

WALL ASSEMBLIES	
TYPE	DESCRIPTION
W1	TYP. EXTERIOR WALLS - ASSEMBLY A 9.36.2.6.A-3(a) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. w/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W1a	TYP. 2x4 EXT. WALLS - (UNCOND. ALL AROUND) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x4 WOOD STUDS @ 16" o.c. U.N.O.
W2	EXTERIOR WALL - MANUFACTURED STONE ASSEMBLY 9.36.2.6.1-3(a) MANUF. STONE AS PER ELEVATIONS MIN. 3/8" SCRATCH COAT ON METAL LATH 2 LAYERS 30 MIN. BLDG. PAPER 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. W/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W3	TYP. BASEMENT FOUNDATION WALL - ASSEMBLY 9.6.2.8.A-1(a) ASPHALT EMULSION 8" ENG'D. CONC. FOUNDATION WALL FURRING (AS INDICATED ON PLAN) 1/2" AIRSPACE FROM CONCRETE 2x4 WOOD STUDS @ 16" o.c. w/ 3.5" F.G. BATT INSUL (R12) 1/2" GYPSUM WALL BOARD VAPOUR BARRIER PAINT ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W3a	TYP. RETAINING WALL 8" ENG'D. C.I.P. CONCRETE RETAINING WALL ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W4	INTERIOR PARTITION (2X4 OR 2X6) 1/2" GYPSUM WALL BOARD 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) 1/2" GYPSUM WALL BOARD
W4a	INTERIOR PARTITION - SHEATHED 1/2" GYPSUM WALL BOARD 1/2" PLYWOOD SHEATHING PER STRUCTURAL 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) 1/2" GYPSUM WALL BOARD
W4b	INTERIOR PARTITION @ GARAGE - ASSEMBLY 9.36.2.6.A-3(c) 5/8" GYPSUM WALL BOARD 1/2" PLYWOOD SHEATHING 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) w/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER ON WARM SIDE OF WALL 1/2" GYPSUM WALL BOARD
SEE ENERGY EFFICIENCY DETAIL SHEETS FOR ASSEMBLY DESCRIPTIONS WITH ERSI CALCULATIONS	



### ROOF PLAN

SCALE: 1/8" = 1'-0"

#### TYPICAL ROOF NOTES

EAVE OVERHANGS ARE MEASURED TO THE OUTSIDE  
PLYWOOD FACING OF THE PARAPET

VENTILATE ALL ATTIC SPACES 1:300  
VENTILATION TO BE DISTRIBUTED EVENLY WITH NOT  
MORE THAN 25% AT THE TOP AND 25% AT THE  
BOTTOM OF THE ROOF

#### SPECIAL DIMENSION NOTES

- DIMENSIONS AT EXTERIOR WALLS ARE TO THE OUTSIDE FACE OF THE WALL SHEATHING.
- DIMENSIONS AT THE FOUNDATION ARE TO THE OUTSIDE FACE OF THE CONCRETE.
- TYPICALLY THE OUTSIDE FACE OF THE WALL SHEATHING SHOULD LINE UP WITH THE OUTSIDE FACE OF THE CONCRETE FOUNDATION.
- DIMENSIONS AT THE INTERIOR WALLS ARE TO THE CENTER OR THE OUTSIDE FACE OF THE 2x4 OR 2x6 STUDS.
- CEILING HEIGHTS SHOWN ON UPPER FLOOR/MAIN FLOOR ARE FROM TOP OF PLYWOOD SHEATHING NOT TOP OF CONCRETE TOPPING
- ALL ROOM SIZES ARE MEASURED TO STUD FACE, NOT DRYWALL FACE

IMPORTANT NOTE:  
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#### ATTENTION STRUCTURAL ENGINEER

A STRUCTURAL ENGINEER IS REQUIRED TO PROVIDE SEISMIC SOLUTIONS AND CERTIFY THIS DESIGN UNDER PART 4 OF THE B.C. BUILDING CODE 2012 EDITION.  
ALL STRUCTURAL ENGINEERING MUST BE ON A SEPARATE SET OF DRAWINGS PRODUCED BY THE ENGINEER AND MUST NOT CONTAIN R.S.B.D. TITTLE BLOCKS OR INDICATE DESIGN BY R.S.B.D.  
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THESE PLANS CONFORM TO THE  
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14439 MAGDALEN AVENUE, WHITE ROCK BC

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SCALE: As indicated

### ROOF PLAN, MAIN FLOOR PLAN

SHEET: 5 OF 11

DESIGN BY RAYMOND S. BONTER DESIGNER LTD.

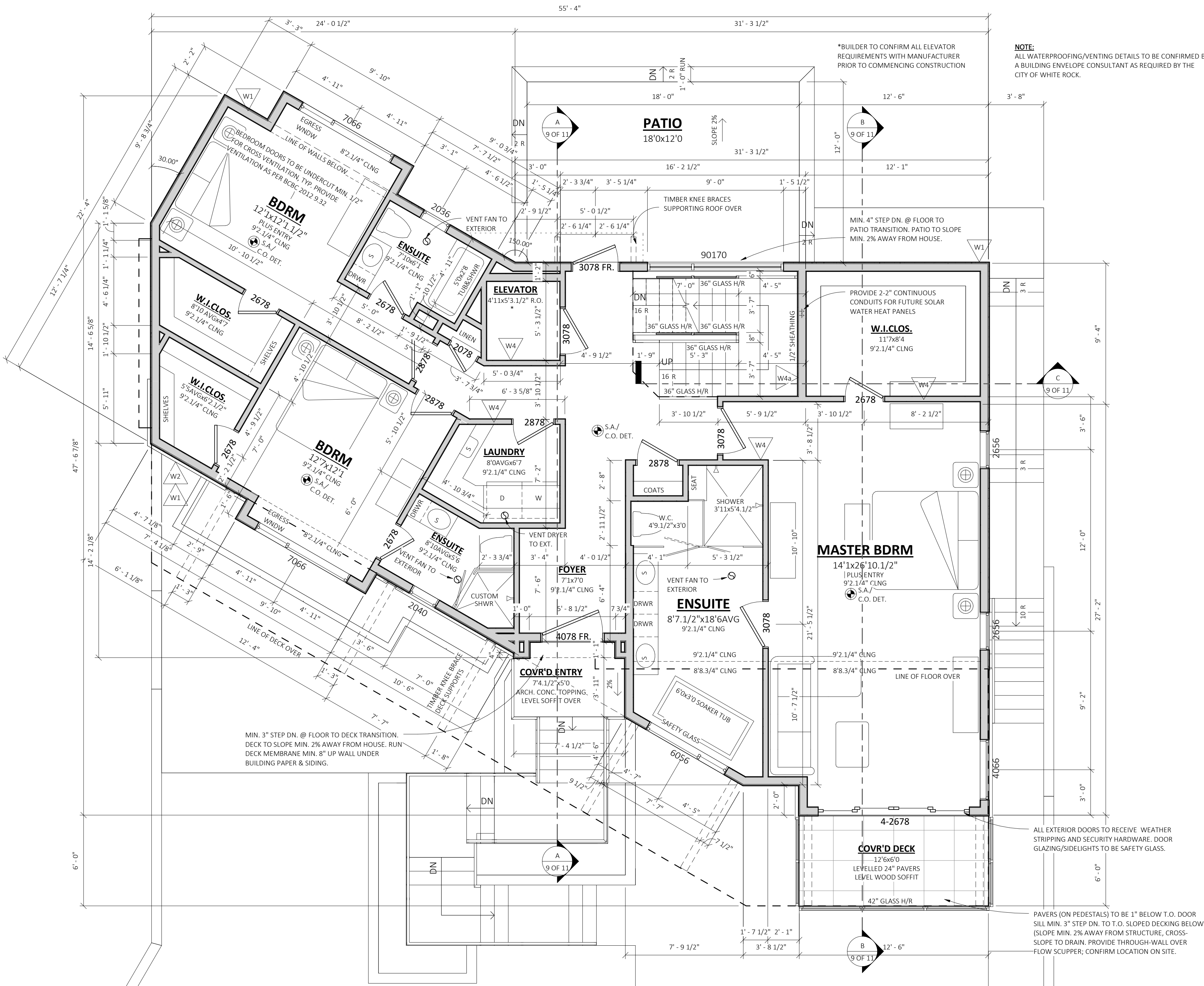
#88 - 1959 152nd STREET

SOUTH SURREY, B.C. V4A 9E3

PHONE: 604-535-3322 FAX 1-866-454-4271

EMAIL: info@raymondbonterdesigner.ca





LOWER FLOOR PLAN

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

COVERED DECK	75.00 SF	6.97 m <sup>2</sup>
LOWER FLOOR AREA	1646.42 SF	152.96 m <sup>2</sup>
PATIO	216.00 SF	20.07 m <sup>2</sup>
COVERED ENTRY	36.98 SF	3.44 m <sup>2</sup>
	1974.40 SF	183.43 m <sup>2</sup>

SPECIAL DIMENSION NOTES

- DIMENSIONS AT EXTERIOR WALLS ARE TO THE OUTSIDE FACE OF THE WALL SHEATHING.
- CLADDING MTRL. AS PER ELEVATIONS
- RAIN SCREEN - MIN. 10mm STRAPPING U.N.O.
- BUILDING WRAP
- 1/2" PLYWOOD SHEATHING
- 2x6 WOOD STUDS @ 16" o.c. U.N.O.
- w/ 5.5" F.G. BATT INSUL (R20)
- 6 MIL UV POLY VAPOUR BARRIER
- 1/2" GYPSUM WALL BOARD
- DIMENSIONS AT THE INTERIOR WALLS ARE TO THE CENTER OR THE OUTSIDE FACE OF THE 2x4 OR 2x6 STUDS.
- CEILING HEIGHTS SHOWN ON UPPER FLOOR/MAIN FLOOR ARE FROM TOP OF PLYWOOD SHEATHING NOT TOP OF CONCRETE TOPPING
- ALL ROOM SIZES ARE MEASURED TO STUD FACE, NOT DRYWALL FACE

**NOTE:**  
ALL WATERPROOFING/VENTING DETAILS TO BE CONFIRMED BY A BUILDING ENVELOPE CONSULTANT AS REQUIRED BY THE CITY OF WHITE ROCK.

WALL ASSEMBLIES	
TYPE	DESCRIPTION
W1	TYP EXTERIOR WALLS - ASSEMBLY A.9.36.2.6.A-3(a) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. w/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W1a	TYP 2x4 EXT. WALLS - (UNCOND. ALL AROUND) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x4 WOOD STUDS @ 16" o.c. U.N.O.
W2	EXTERIOR WALL - MANUFACTURED STONE MANUF. STONE AS PER ELEVATIONS MIN. 3/8" SCRATCH COAT ON METAL LATH 2 LAYERS 30 MIN. BLDG. PAPER 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. W/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W3	TYP. BASEMENT FOUNDATION WALL - ASSEMBLY 9.6.2.8.A-1(a) ASPHALT EMULSION 8" ENG'D. CONC. FOUNDATION WALL FURRING (AS INDICATED ON PLAN) 1/2" AIRSPACE FROM CONCRETE 2x4 WOOD STUDS @ 16" o.c. w/ 3.5" F.G. BATT INSUL (R12) 1/2" GYPSUM WALL BOARD VAPOUR BARRIER PAINT ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W3A	TYP. RETAINING WALL 8" ENG'D. C.I.P. CONCRETE RETAINING WALL ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W4	INTERIOR PARTITION (2X4 OR 2X6) 1/2" GYPSUM WALL BOARD 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) 1/2" GYPSUM WALL BOARD
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W4b	INTERIOR PARTITION @ GARAGE - ASSEMBLY 9.36.2.6.A-3(c) 5/8" GYPSUM WALL BOARD 1/2" PLYWOOD SHEATHING 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) w/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER ON WARM SIDE OF WALL 1/2" GYPSUM WALL BOARD
SEE ENERGY EFFICIENCY DETAIL SHEETS FOR ASSEMBLY DESCRIPTIONS WITH ERSI CALCULATIONS	

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LOWER FLOOR PLAN

2017-08-03 1:53:28 PM  
SCALE: 1/4" = 1'-0"

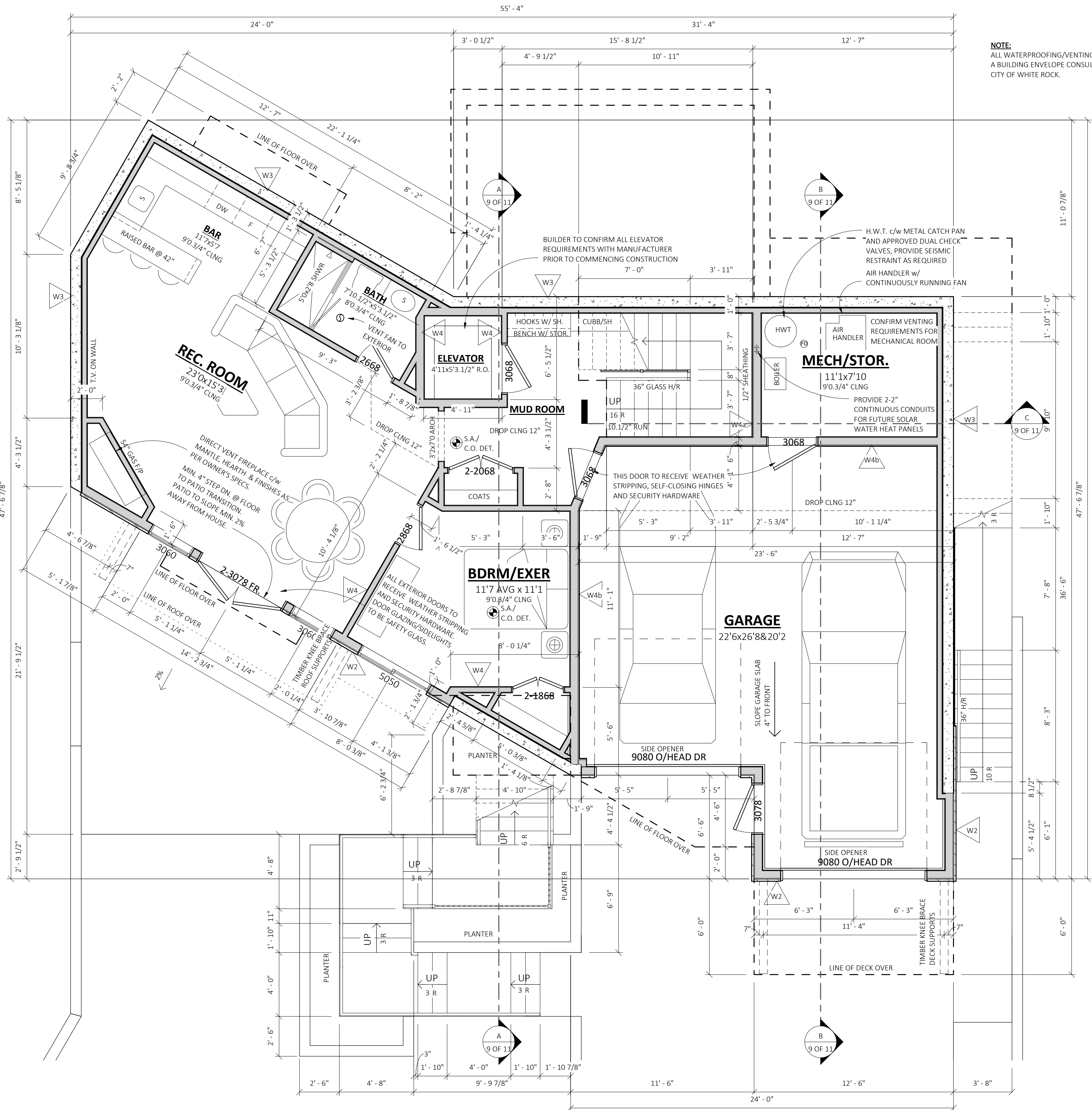
SHEET: 6 OF 11

ATTENTION STRUCTURAL ENGINEER

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**NOTE:**  
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A BUILDING ENVELOPE CONSULTANT AS REQUIRED BY THE  
CITY OF WHITE ROCK.

**BASEMENT FLOOR PLAN**

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

BASEMENT FLOOR AREA	1033.73 SF	96.04 m <sup>2</sup>
GARAGE	563.75 SF	52.37 m <sup>2</sup>
PATIO	266.66 SF	24.77 m <sup>2</sup>
COVR'D PATIO	66.11 SF	6.14 m <sup>2</sup>
TOTAL BASEMENT AREA	1930.25 SF	179.33 m <sup>2</sup>

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THESE PLANS CONFORM TO THE  
B.C. BUILDING CODE, 2012 ED.

14439 MAGDALEN AVENUE, WHITE ROCK BC

THESE DRAWINGS SHOULD BE PRINTED ON 34" x 22" PAPER TO BE AT SCALE INDICATED. ON REDUCED SIZE THEY WILL NOT BE TO SCALE.

**SPECIAL DIMENSION NOTES**

- DIMENSIONS AT EXTERIOR WALLS ARE TO THE OUTSIDE FACE OF THE WALL SHEATHING.
- DIMENSIONS AT THE FOUNDATION ARE TO THE OUTSIDE FACE OF THE CONCRETE.
- TYPICALLY THE OUTSIDE FACE OF THE WALL SHEATHING SHOULD LINE UP WITH THE OUTSIDE FACE OF THE CONCRETE FOUNDATION.
- DIMENSIONS AT THE INTERIOR WALLS ARE TO THE CENTER OR THE OUTSIDE FACE OF THE 2x4 OR 2x6 STUDS.
- CEILING HEIGHTS SHOWN ON UPPER FLOOR/MAIN FLOOR ARE FROM TOP OF PLYWOOD SHEATHING NOT TOP OF CONCRETE TOPPING.
- ALL ROOM SIZES ARE MEASURED TO STUD FACE, NOT DRYWALL FACE

**IMPORTANT NOTE:**  
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**PLAN #2-3005.19R-55.33x47.57-B**

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  - AND ALL WORK DONE BY RAYMOND S. BONTER, DESIGNER LTD. IS AND WILL REMAIN SOLELY THE PROPERTY OF THE SAME
  - ALL FUNDS PAID ARE NON-REFUNDABLE.

**BASEMENT FLOOR PLAN**

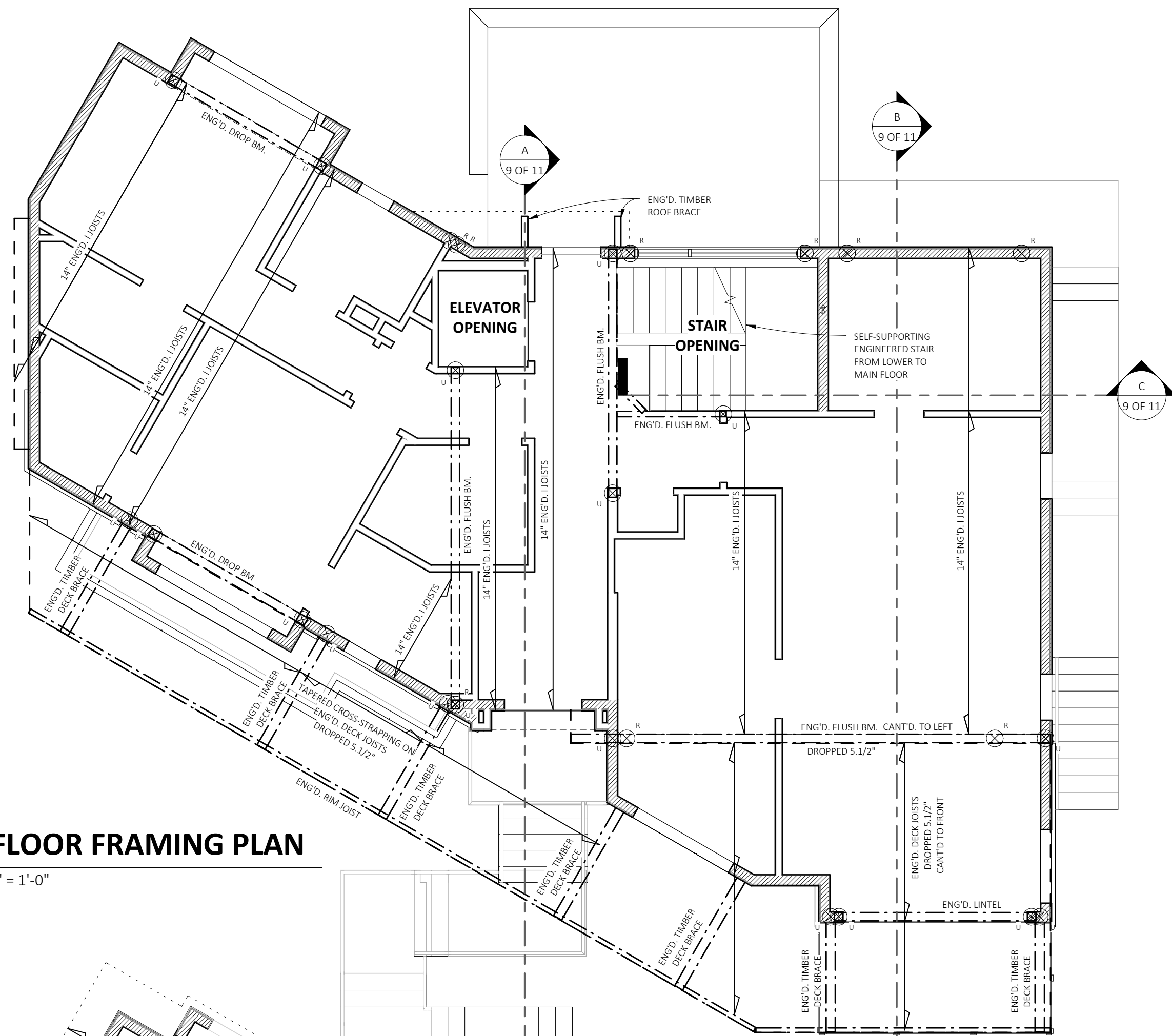
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SCALE: 1/4" = 1'-0"

SHEET: 7 OF 11

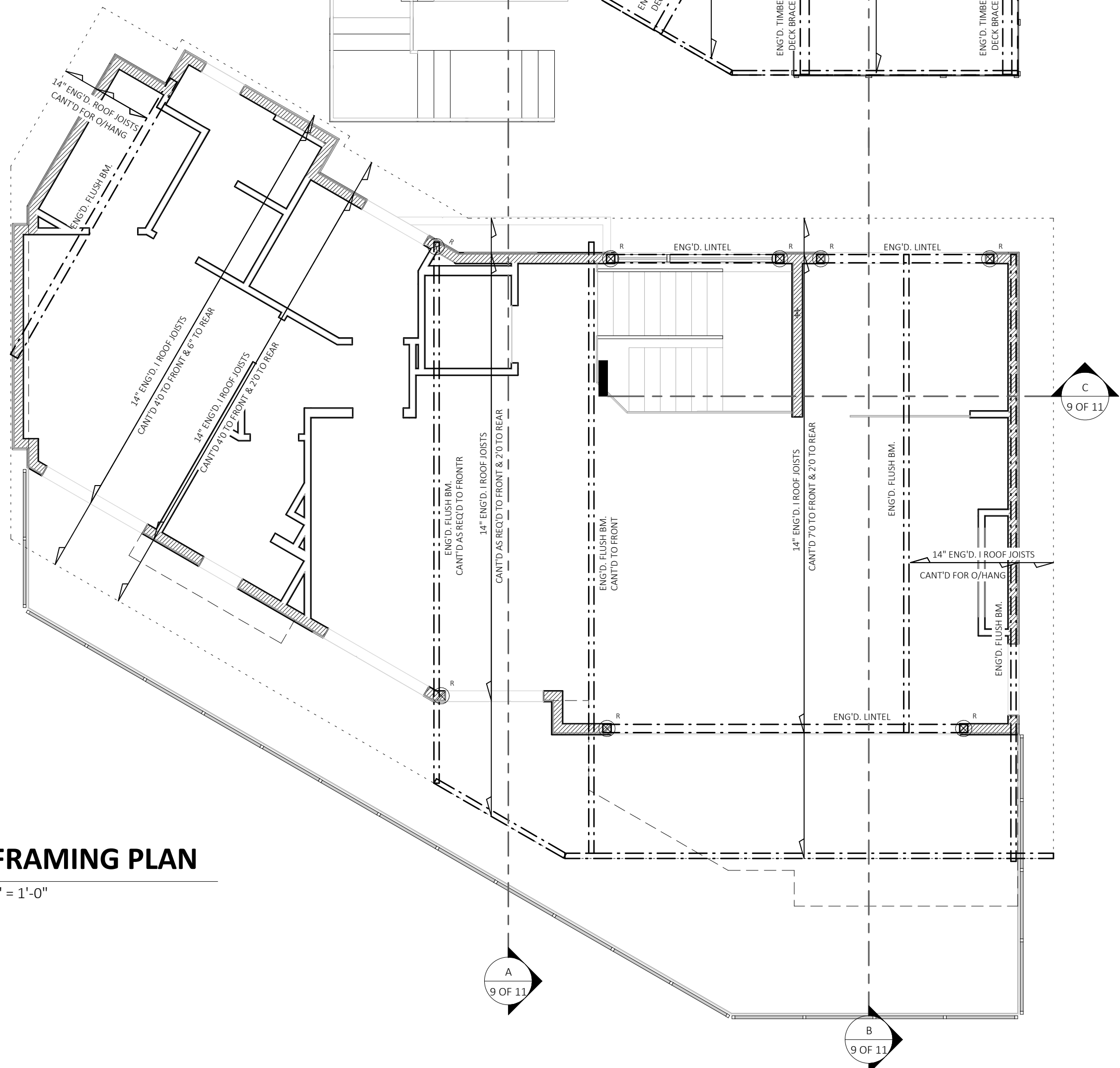
WALL ASSEMBLIES	
TYPE	DESCRIPTION
W1	TYP EXTERIOR WALLS - ASSEMBLY A 9.36.2.6.A-3(a) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. w/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W1a	TYP 2x4 EXT. WALLS - (UNCOND. ALL AROUND) CLADDING MTRL. AS PER ELEVATIONS RAIN SCREEN - MIN. 10mm STRAPPING U.N.O. BUILDING WRAP 1/2" PLYWOOD SHEATHING 2x4 WOOD STUDS @ 16" o.c. U.N.O.
W2	EXTERIOR WALL - MANUFACTURED STONE ASSEMBLY 9.36.2.6.1-3(a) MANUF. STONE AS PER ELEVATIONS MIN. 3/8" SCRATCH COAT ON METAL LATH 2 LAYERS 30 MIN. BLDG. PAPER 1/2" PLYWOOD SHEATHING 2x6 WOOD STUDS @ 16" o.c. U.N.O. W/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER 1/2" GYPSUM WALL BOARD
W3	TYP. BASEMENT FOUNDATION WALL - ASSEMBLY 9.6.2.8.A-1(a) ASPHALT EMULSION 8" ENG'D. CONC. FOUNDATION WALL FURRING (AS INDICATED ON PLAN) 1/2" AIRSPACE FROM CONCRETE 2x4 WOOD STUDS @ 16" o.c. w/ 3.5" F.G. BATT INSUL (R12) 1/2" GYPSUM WALL BOARD VAPOUR BARRIER PAINT ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W3A	TYP. RETAINING WALL 8" ENG'D. C.I.P. CONCRETE RETAINING WALL ENG'D. CONCRETE STRIP FOOTING 6" MIN. DRAIN ROCK w/ 4" PERF. FOOTING DRAIN 4" PERIMETER DRAIN
W4	INTERIOR PARTITION (2X4 OR 2X6) 1/2" GYPSUM WALL BOARD 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) 1/2" GYPSUM WALL BOARD
W4a	INTERIOR PARTITION - SHEATHED 1/2" GYPSUM WALL BOARD 1/2" PLYWOOD SHEATHING PER STRUCTURAL 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) 1/2" GYPSUM WALL BOARD
W4b	INTERIOR PARTITION @ GARAGE - ASSEMBLY 9.36.2.6.A-3(c) 5/8" GYPSUM WALL BOARD 1/2" PLYWOOD SHEATHING 2x4 OR 2x6 WOOD STUDS @ 16" o.c. (U.N.O.) W/ 5.5" F.G. BATT INSUL (R20) 6 MIL UV POLY VAPOUR BARRIER ON WARM SIDE OF WALL 1/2" GYPSUM WALL BOARD
SEE ENERGY EFFICIENCY DETAIL SHEETS FOR ASSEMBLY DESCRIPTIONS WITH ERSI CALCULATIONS	



SCALE: 3/16" = 1'-0"

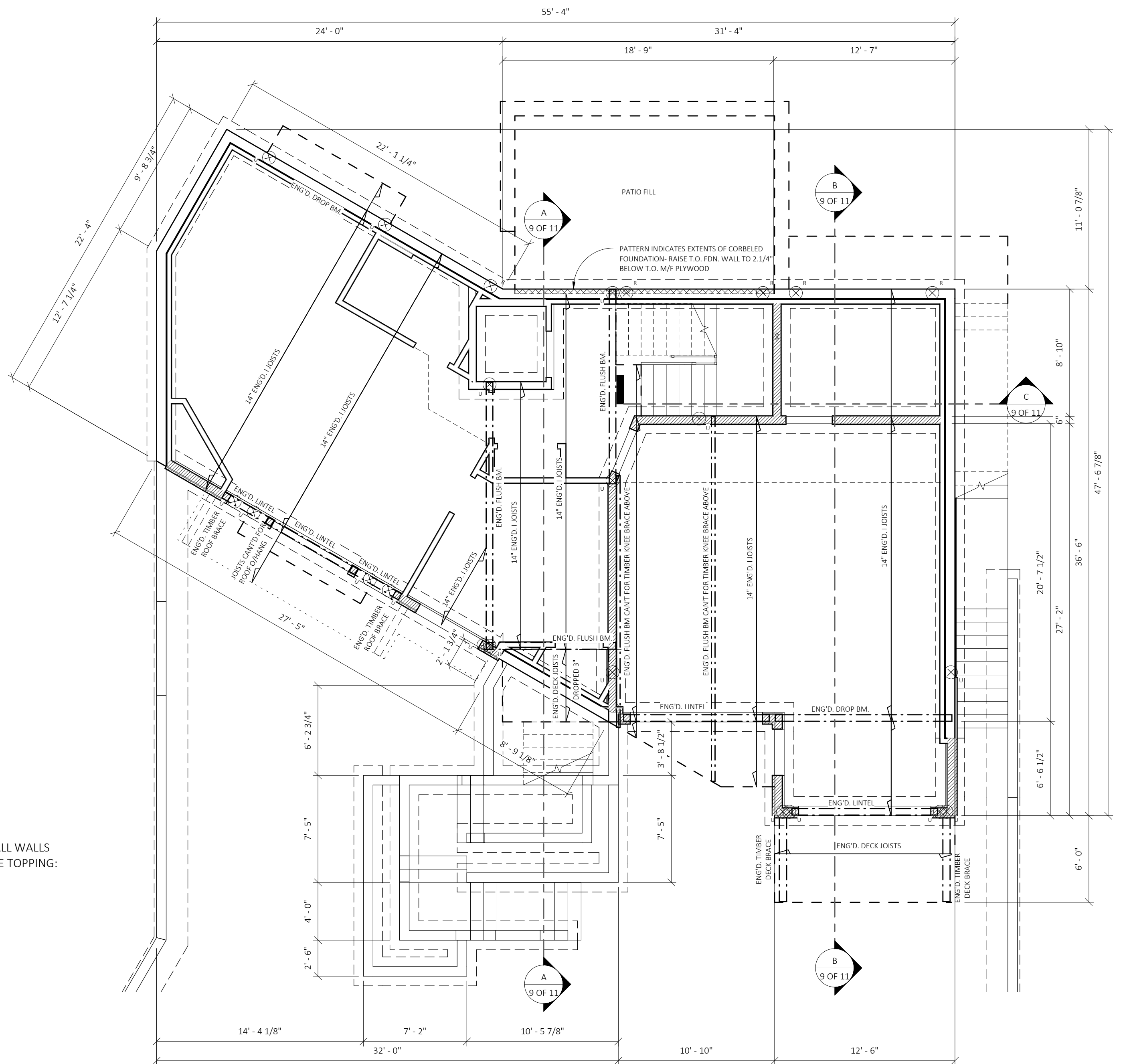


SCALE: 3/16" = 1'-0"



**NOTE:**  
DOUBLE SILL PLATE TYP. ALL WALLS  
TO ALLOW FOR CONCRETE TOPPING:  
2x6 SILL @ 2x4 WALLS  
2x8 SILL @ 2x6 WALLS

SCALE: 3/16" = 1'-0"



**CROSS SECTION MARKER**

1  
A10

SIM

DIRECTION OF VIEW

SECTION IDENTIFICATION

SHEET WHERE DRAWN

W1

WALL CONSTRUCTION TYPE

⊗  
M

MAIN FLOOR POINT LOAD SYMBOL:  
CONFIRM CONNECTIONS ON SITE

⊗  
U

UPPER FLOOR POINT LOAD SYMBOL:  
CONFIRM CONNECTIONS ON SITE

⊗  
R

ROOF PLAN LOAD SYMBOL:  
CONFIRM CONNECTIONS ON SITE

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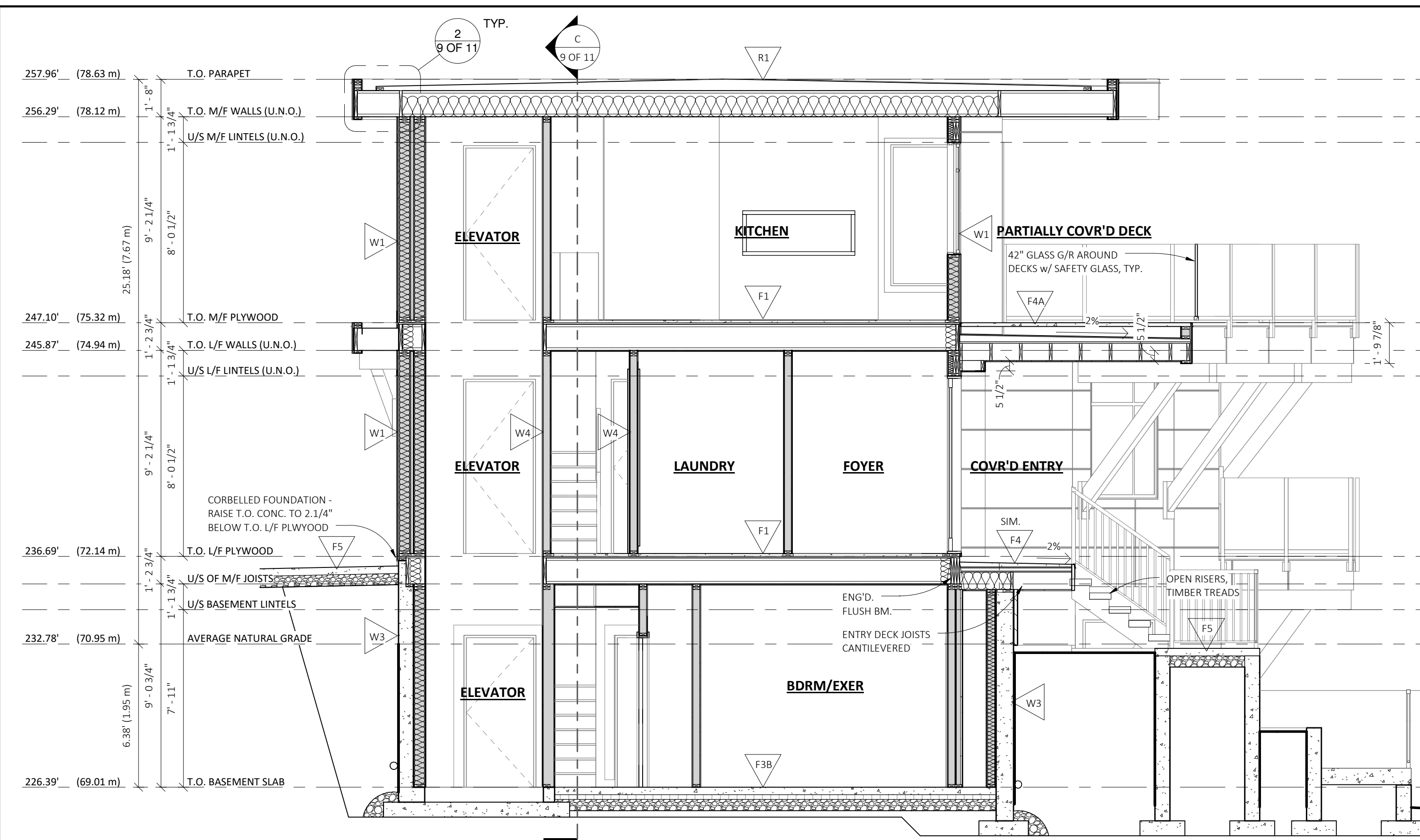
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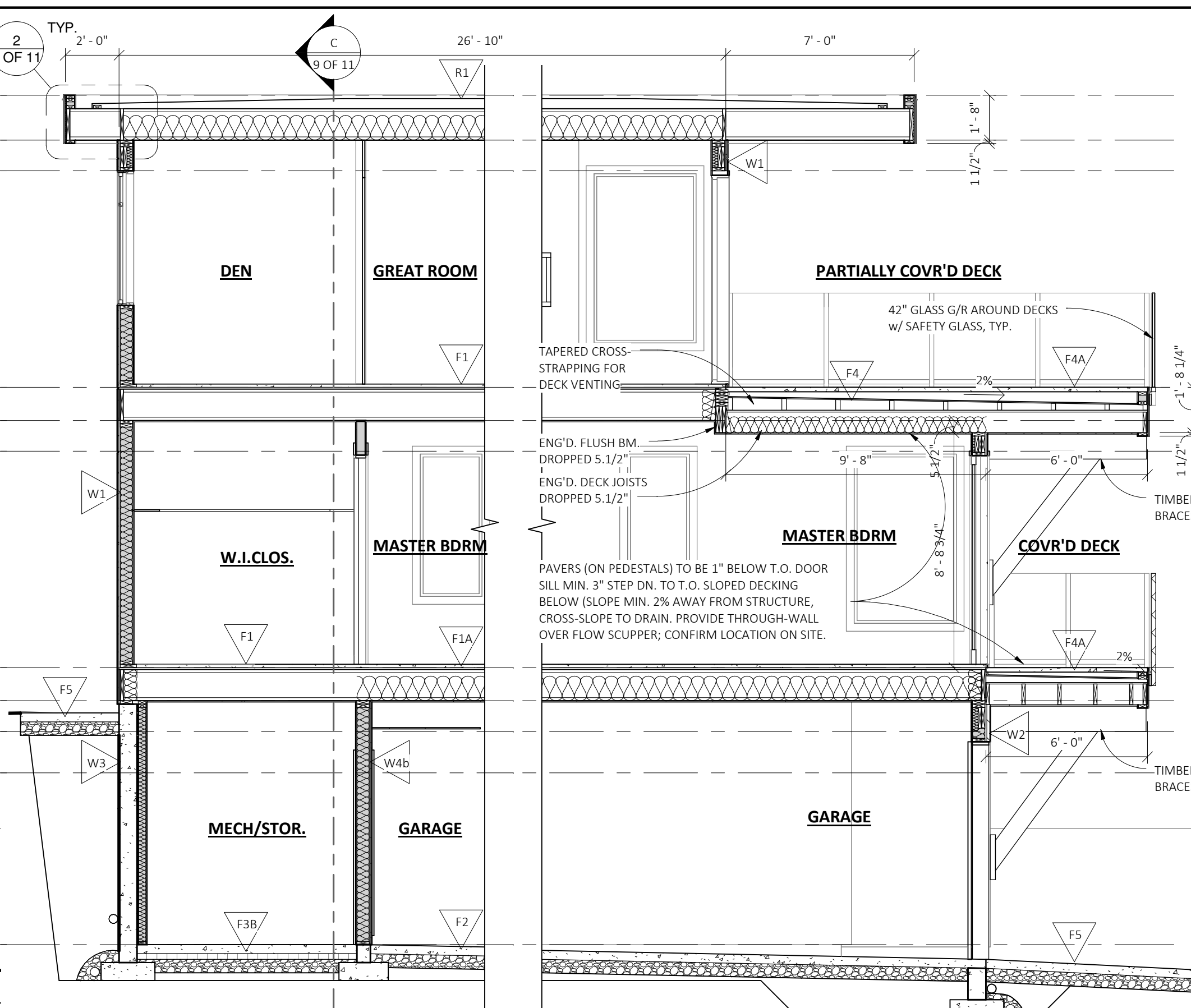
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SCALE: As indicated

SHEET: 8 OF 11



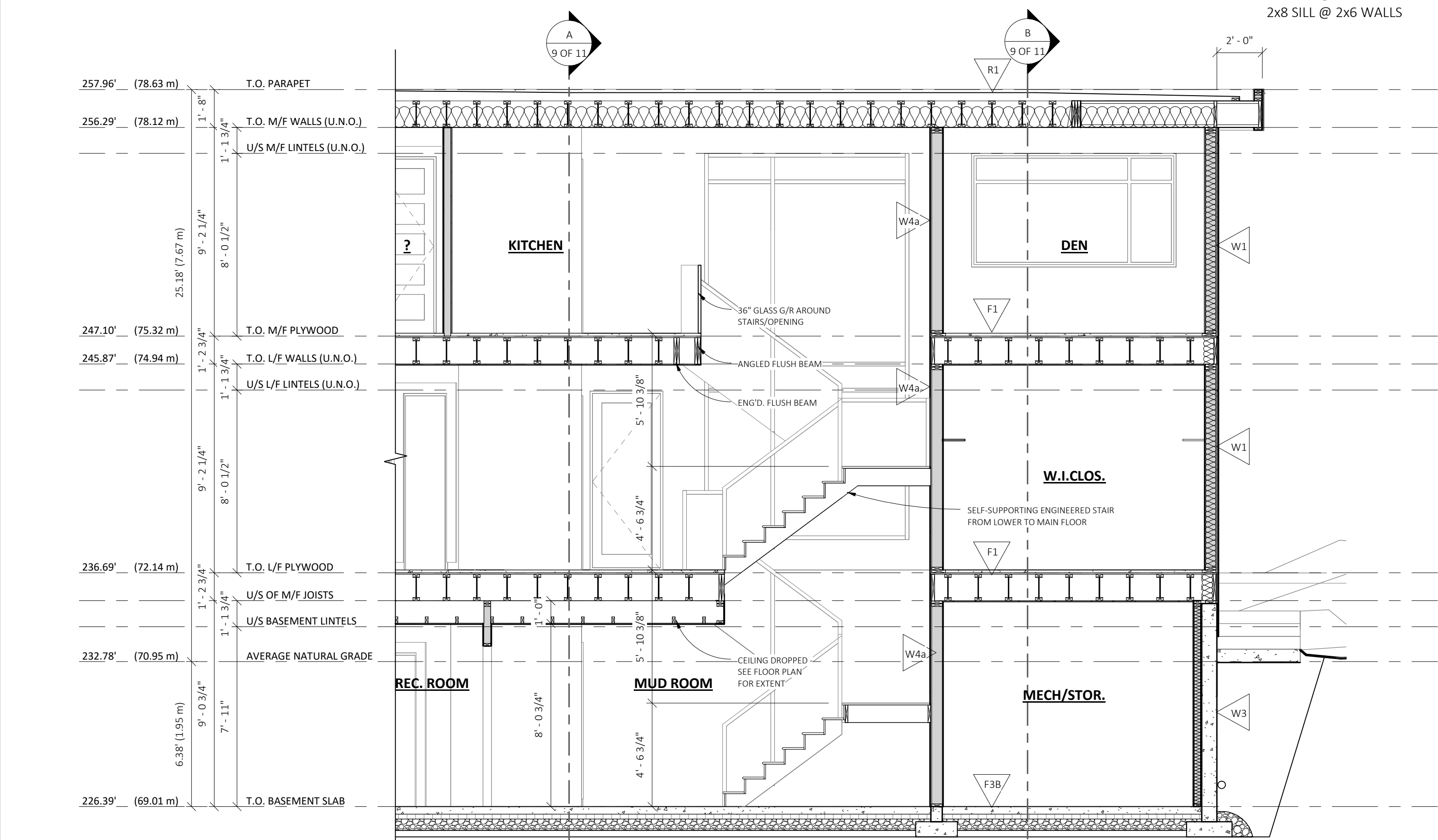
SECTION A-A  
SCALE: 1/4" = 1'-0"

NOTE:  
DOUBLE SILL PLATE TYP. ALL WALLS  
TO ALLOW FOR CONCRETE TOPPING:  
2x6 SILL @ 2x4 WALLS  
2x8 SILL @ 2x6 WALLS

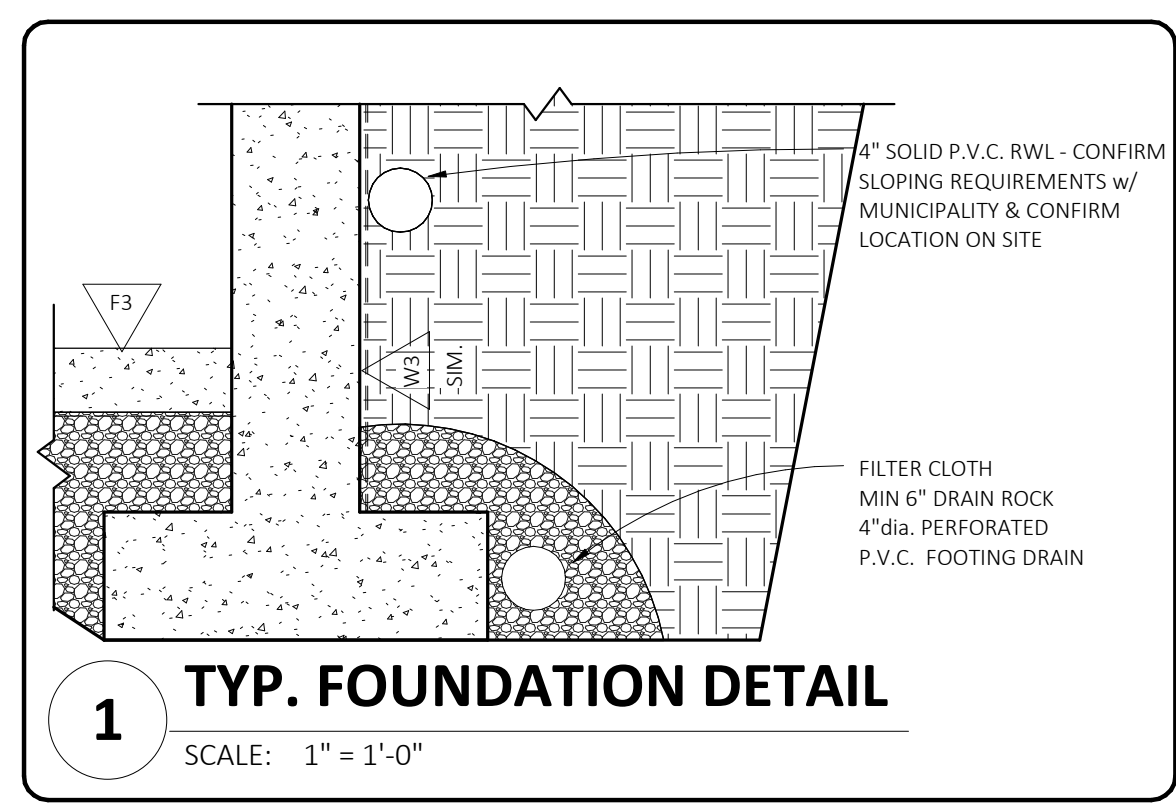
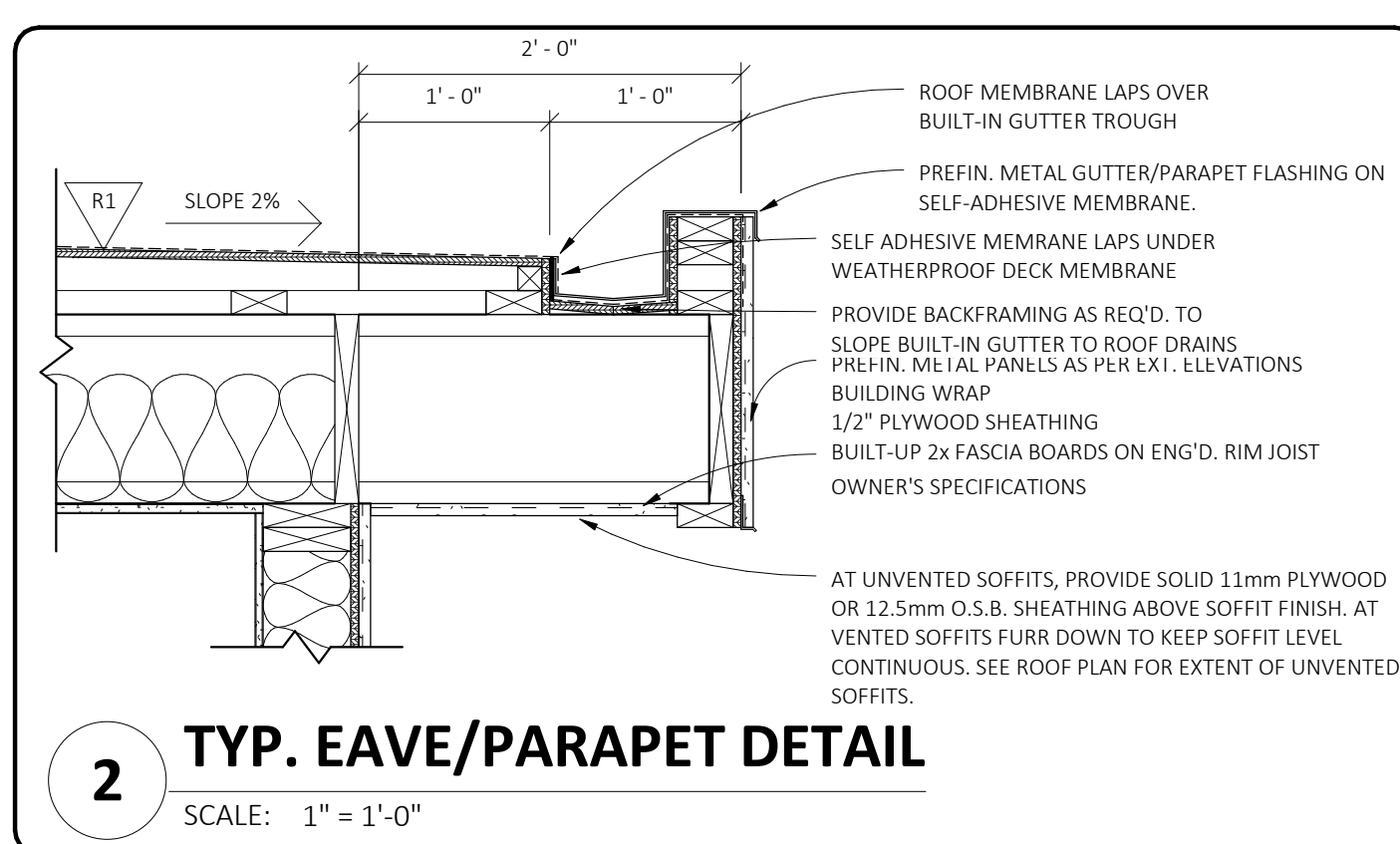


SECTION B-B  
SCALE: 1/4" = 1'-0"

NOTE:  
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SECTION C  
SCALE: 1/4" = 1'-0"



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**SECTIONS, DETAILS**

ROOF ASSEMBLIES	
TYPE	DESCRIPTION
R1	TYP. LOW SLOPE ROOF (ASSEMBLY A.9.36.2.6.A-2 SIM.) LOW-SLOPE ROOFING MEMBRANE APPROVED UNDERLAYMENT 1/2" PLYWOOD SHEATHING c/w H-CLIPS @ UNSUPPORTED JOINTS TAPERED CROSS STRAPPING FOR DRAINAGE & VENTING ENG'D. ROOF JOISTS MIN. R31 BATT INSULATION 6 MIL. UV RATED POLY V.B. 5/8" GYPSUM CEILING BOARD  SEE ENERGY EFFICIENCY DETAIL SHEETS FOR ASSEMBLY DESCRIPTIONS WITH ERSI CALCULATIONS

FLOOR ASSEMBLIES	
TYPE	DESCRIPTION
F1	TYP. WOOD FRAMED FLOOR - CONDITIONED EACH SIDE FINISH FLOORING 1.1/2" CONCRETE TOPPING w/ IN-FLOOR HEAT 3/4" T&G PLYWOOD (GLUED & NAILED) ENG. FLOOR JOISTS (SEE FLOOR PLANS) 5/8" GYPSUM CEILING BOARD
F1A	TYP. WOOD FRAMED FLOOR OVER UNHEATED SPACE ASSEMBLY 9.36.2.6.A-4(b) FINISH FLOORING 1.1/2" CONCRETE TOPPING w/ IN-FLOOR HEAT 3/4" T&G PLYWOOD (GLUED & NAILED) 6 MIL. UV. POLY V.B. ENG. FLOOR JOISTS (SEE FLOOR PLANS) w/ MIN. 9.25" F.G. BATT INSUL (R31) 5/8" GYPSUM CEILING BOARD OR VENTED SOFFIT OVER EXTERIOR SPACE
F2	TYP. GARAGE FLOOR - SLAB-ON-GRADE FINISH BY OWNER 4" CONCRETE SLAB COMPACTED GRANULAR FILL MIN. 1% SLOPE TO ENTRY
F3A	TYP. SLAB-ON-GRADE FLOOR - ABOVE FROST LINE ASSEMBLY 9.36.2.8.A-2(a) FINISH BY OWNER 4" CONCRETE SLAB 6 MIL. UV POLY V.B. 2.5" TYPE 3 RIGID INSULATION - TO 48" BELOW SLAB - OR 48" FROM PERIMETER COMPACTED GRANULAR FILL - PROVIDE MIN. E.R.S.I. 0.98 THERMAL BREAK FROM PERIM. OF SLAB TO EXT. FDN.
F3B	TYP. SLAB-ON-GRADE FLOOR - IN SLAB HEAT ASSEMBLY 9.36.2.8.A-3 (a) FINISH BY OWNER 4" CONCRETE SLAB w/ IN SLAB RADIANT HEATING 6 MIL. UV POLY V.B. MIN. 2.1/2" TYPE 3 RIGID INSULATION CONTINUOUS BELOW SLAB COMPACTED GRANULAR FILL - PROVIDE MIN. E.R.S.I. 0.98 THERMAL BREAK FROM PERIM. OF SLAB TO EXT. FDN.
F4	TYP. WOOD FRAME DECK OVER LIVING SPACE ASSEMBLY 9.36.2.6.A-2(c) WEATHERPROOF DECK MEMBRANE (RUN MIN. 8" UP WALL SHEATHING UNDER BLDG. PAPER) 5/8" PLYWOOD SHEATHING (OR AS STRUCTURAL) 2x4 STRAPPING @ 24" o.c. w/ VENTED AIRSPACE ENG'D. DECK JOISTS @ 16" o.c. w/ MIN. 9.25" F.G. BATT INSUL (R31) 6 MIL. UV RATED POLY V.B. 5/8" GYPSUM CEILING BOARD
F4A	PAVERS ON PEDESTALS 2'-0" x 2'-0" CONCRETE PAVERS ON LEVELLING PEDESTALS WATERPROOF DECK MEMBRANE (RUN MIN 8" UP WALL SHEATHING UNDER BLDG PAPER.) 5/8" P.T. WOOD PLYWOOD SHEATHING 2x TAPERED STRAPPING @ 16" o.c. 2x FLOOR JOISTS (SEE FRAMING PLANS) VENTED SOFFITING TO OWNER'S SPECIFICATIONS
F5	TYP. EXTERIOR PATIO/SIDEWALK FINISH PER OWNER MIN. 4" CONCRETE SLAB c/w MESH REINFORCING, COMPACTED GRANULAR FILL

STAIR ASSEMBLIES	
TYPE	DESCRIPTION
S1	TYP. INTERIOR STAIRS 11" TREAD, 10" RUN RISE - SEE FLOOR PLANS PROVIDE HANDRAIL @ 32-36" @ STAIRS w/ 3 OR MORE RISERS PROVIDE MIN. 6/8" MIN. FIN. HEADROOM 1" PLYWOOD TREADS c/w 1/2" RADIUS NOSING 1/2" PLYWOOD RISER, 3 - 2x12 STRINGERS 5/8" GYPSUM CEILING BOARD

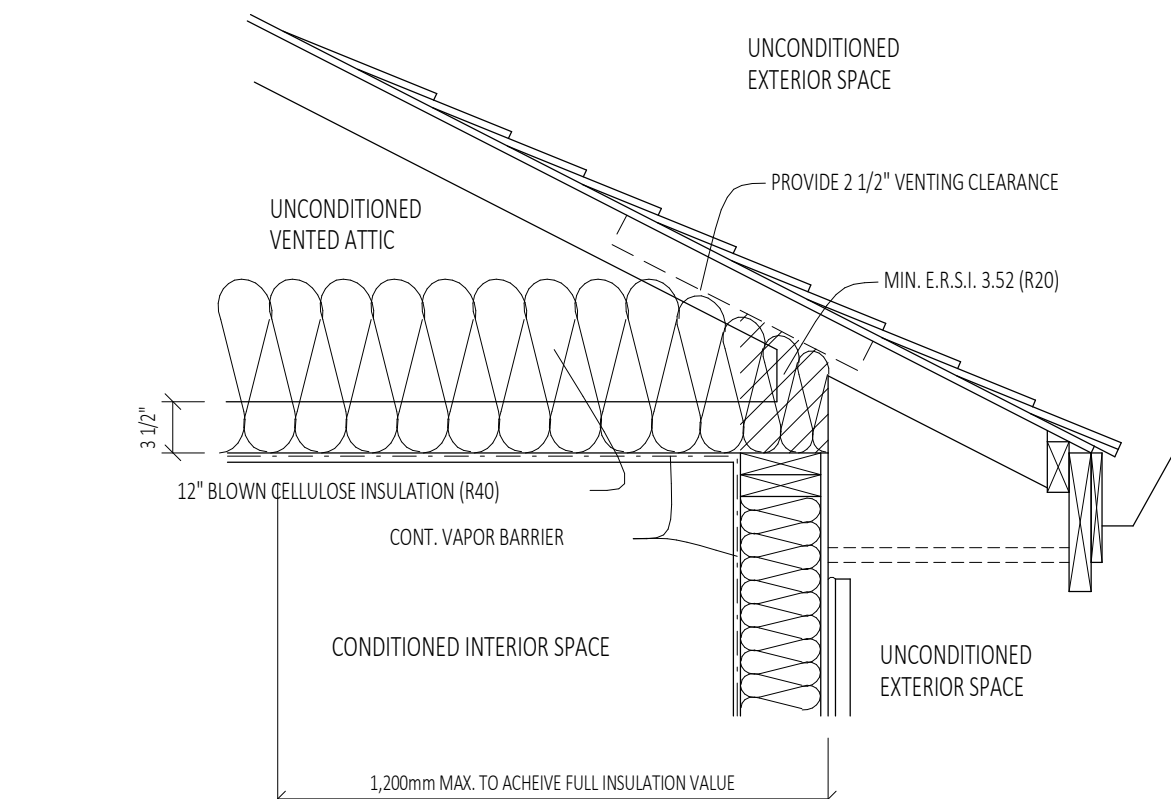
#88 - 1959 152nd STREET  
SOUTH SURREY, B.C. V4A 9E3  
PHONE: 604-535-3322 FAX 1-866-454-4271  
EMAIL: info@raymondbonterdesigner.ca

DESIGN BY RAYMOND S. BONTER DESIGNER LTD.



9.36.2.6.A - EFFECTIVE THERMAL RESISTANCE OF ABOVE-GROUND OPAQUE ASSEMBLIES IN BUILDINGS WITHOUT A HEAT-RECOVERY VENTILATOR - CLIMATE ZONE 4

DETAIL 9.36.2.6.A-1 - CEILINGS BELOW ATTICS



- A REDUCTION IN THE EFFECTIVE THERMAL RESISTANCE OF CEILING ASSEMBLIES IN ATTICS UNDER SLOPED ROOFS IS PERMITTED FOR A LENGTH NO GREATER THAN 1 200 MM BUT ONLY TO THE EXTENT IMPOSED BY THE ROOF SLOPE AND MINIMUM VENTING CLEARANCE, PROVIDED THE NOMINAL THERMAL RESISTANCE OF THE INSULATION DIRECTLY ABOVE THE EXTERIOR WALL IS NOT LESS THAN E.S.R.I. 3.52 (R20).

ASSEMBLY 9.36.2.6.A-1 (a)  
TYPICAL TRUSS ROOF W/ ATTIC  
REQUIRED MIN. E.S.R.I. VALUE = 6.91

- ROOFING MATERIAL AS PER BUILDING SPECIFICATIONS
- #15 ROOFING FELT
- 1/2" PLYWOOD SHEATHING, PROVIDE "H" CLIPS AT SEAMS, OR:
  - 1x4 STRAPPING WITH SOLID EAVE PROTECTION PER B.C.B.C.
- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- PRE-FAB TRUSSES @ 24" O.C. W/ 12" BLOWN CELLULOSE INSULATION (R40) (E.S.R.I. 7.10) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

TOTAL EFFECTIVE R.S.I. VALUE = 7.34

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

3.5" WOOD TRUSS BOTTOM E.S.I.: 0.008x40mm=1.19  
CELLULOSE INSUL. E.S.I.: 0.025x100mm=2.5  
3.5" CELLULOSE INSUL. E.S.I.: 0.025x40mm=2.25  
8.5" CELLULOSE INSUL. E.S.I.: 0.025x100mm=2.25

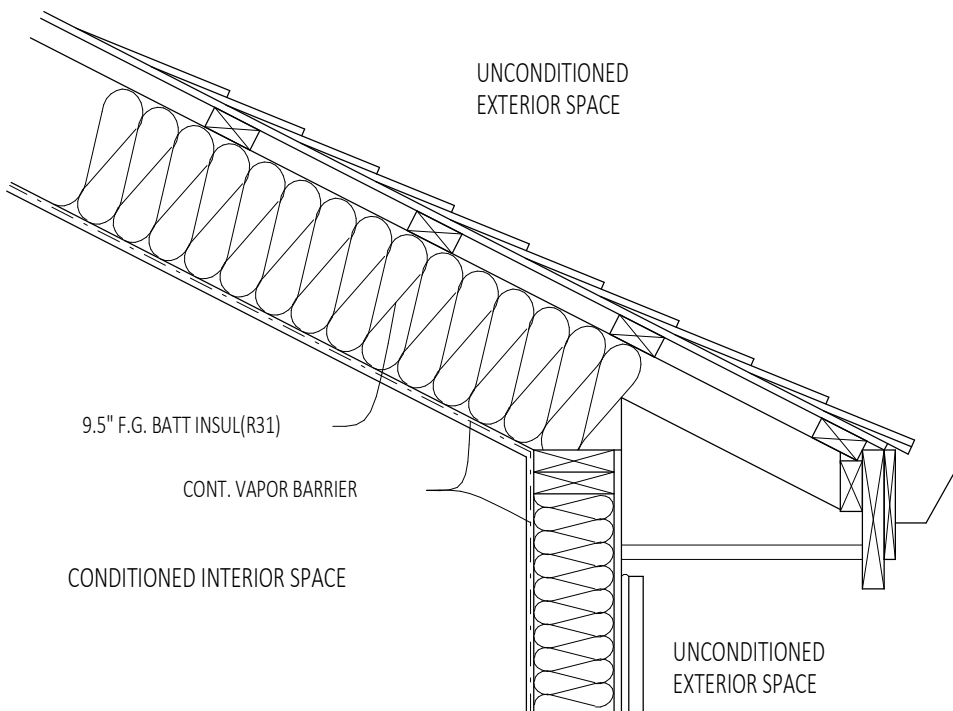
PART 1 - 3.5" TRUSS BOTTOM W/ 3.5" CELLULOSE INSUL:  
13% FRAMING AND 87% INSUL FOR 16" O.C.

100  
[13(2.00)+(87(5.46))] =4.46

PART 2 - 8.5" CELLULOSE INSUL. E.S.I.: 5.25

PART 1+PART 2=TOTAL E.S.R.I.:  
1.85+5.25=7.10

DETAIL 9.36.2.6.A-2 - CATHEDRAL CEILINGS AND FLAT ROOFS



ASSEMBLY 9.36.2.6.A-2 (a)  
TYPICAL 2x10 @ 16" RAFTER ROOF  
REQUIRED MIN. E.S.R.I. VALUE = 4.67

- ROOFING MATERIAL AS PER BUILDING SPECIFICATIONS
- #15 ROOFING FELT
- 1/2" PLYWOOD SHEATHING, PROVIDE "H" CLIPS AT SEAMS, OR:
  - 1x4 STRAPPING WITH SOLID EAVE PROTECTION PER B.C.B.C.
- 2x4 STRAPPING AT 24" O.C. W/ VENTED AIRSPACE
- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- 2x10 @ 16" O.C. W/ 9.5" F.G. BATT INSUL(R31) (E.S.R.I. 4.46) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

TOTAL EFFECTIVE R.S.I. VALUE = 4.70

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x10 WOOD E.S.I.: 0.008x25mm=2.00  
R31 F.G. BATT INSUL. E.S.I.: 241mm TH = 5.46  
13% FRAMING AND 87% INSUL FOR 16" O.C.

100  
[13(2.00)+(87(5.46))] =4.46

ASSEMBLY 9.36.2.6.A-2 (b)  
TYPICAL 2x10 @ 24" RAFTER ROOF  
REQUIRED MIN. E.S.R.I. VALUE = 4.67

- ROOFING MATERIAL AS PER BUILDING SPECIFICATIONS
- #15 ROOFING FELT
- 1/2" PLYWOOD SHEATHING, PROVIDE "H" CLIPS AT SEAMS, OR:
  - 1x4 STRAPPING WITH SOLID EAVE PROTECTION PER B.C.B.C.
- 2x4 STRAPPING AT 24" O.C. W/ VENTED AIRSPACE
- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- 2x10 @ 24" O.C. W/ 9.5" F.G. BATT INSUL(R31) (E.S.R.I. 4.65) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

TOTAL EFFECTIVE R.S.I. VALUE = 4.89

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x10 WOOD E.S.I.: 0.008x25mm=2.00  
R31 F.G. BATT INSUL. E.S.I.: 241mm TH = 5.46  
13% FRAMING AND 87% INSUL FOR 16" O.C.

100  
[10(2.00)+(80(5.46))] =4.65

ASSEMBLY 9.36.2.6.A-2 (c)  
TYPICAL 2x12 @ 16" RAFTER ROOF  
REQUIRED MIN. E.S.R.I. VALUE = 4.67

- ROOFING MATERIAL AS PER BUILDING SPECIFICATIONS
- #15 ROOFING FELT
- 1/2" PLYWOOD SHEATHING, PROVIDE "H" CLIPS AT SEAMS, OR:
  - 1x4 STRAPPING WITH SOLID EAVE PROTECTION PER B.C.B.C.
- 2x4 STRAPPING AT 24" O.C. W/ VENTED AIRSPACE
- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- 2x12 @ 16" O.C. W/ 9.5" F.G. BATT INSUL(R31) (E.S.R.I. 4.81) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

TOTAL EFFECTIVE R.S.I. VALUE = 4.93

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x12 WOOD E.S.I.: 0.008x25mm=2.42  
R31 F.G. BATT INSUL. E.S.I.: 241mm TH = 5.46  
13% FRAMING AND 87% INSUL FOR 16" O.C.

100  
[13(2.42)+(87(5.46))] =4.69

ASSEMBLY 9.36.2.6.A-2 (d)  
TYPICAL 2x12 @ 24" RAFTER ROOF  
REQUIRED MIN. E.S.R.I. VALUE = 4.67

- ROOFING MATERIAL AS PER BUILDING SPECIFICATIONS
- #15 ROOFING FELT
- 1/2" PLYWOOD SHEATHING, PROVIDE "H" CLIPS AT SEAMS, OR:
  - 1x4 STRAPPING WITH SOLID EAVE PROTECTION PER B.C.B.C.
- 2x4 STRAPPING AT 24" O.C. W/ VENTED AIRSPACE
- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- 2x12 @ 24" O.C. W/ 9.5" F.G. BATT INSUL(R31) (E.S.R.I. 4.85) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

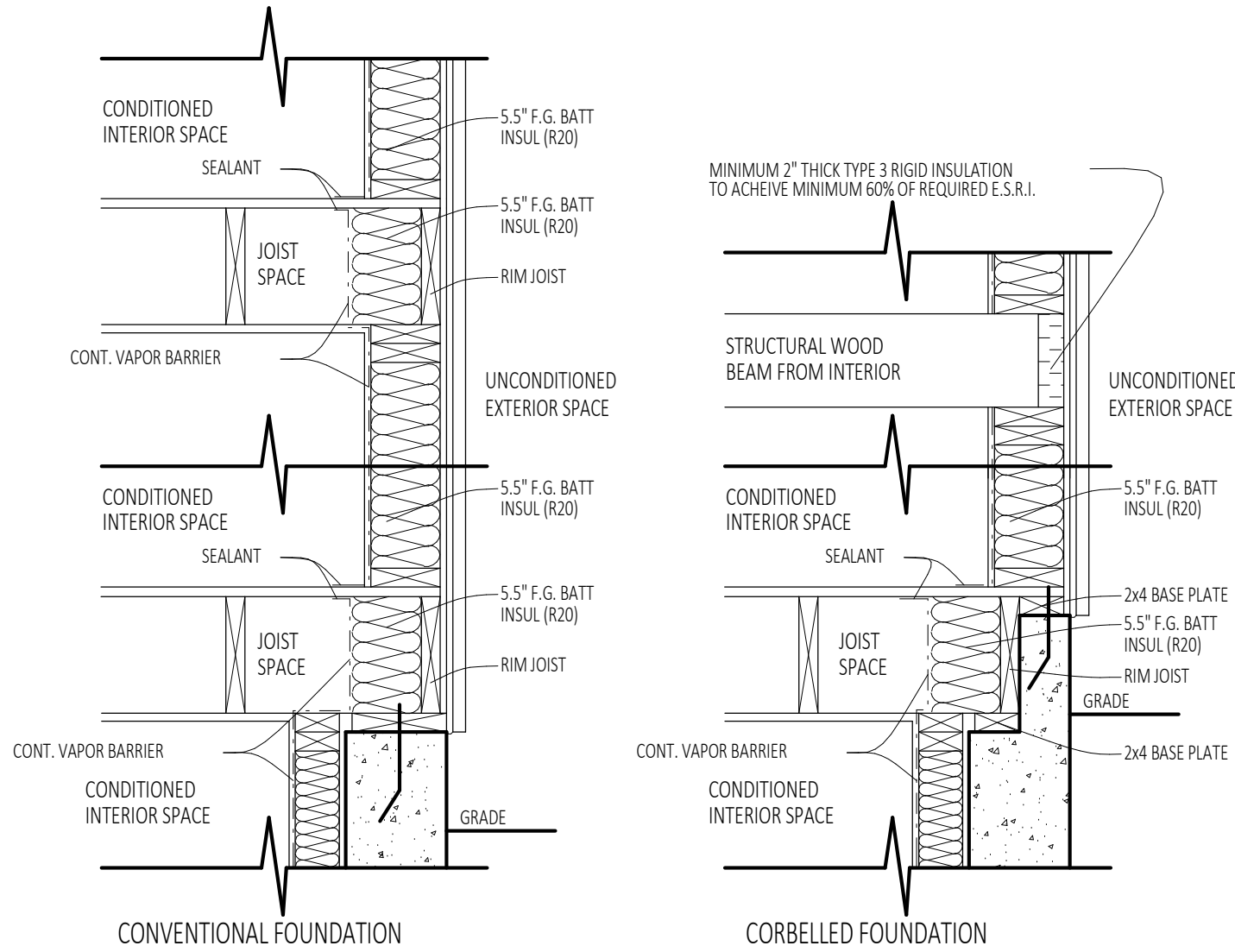
TOTAL EFFECTIVE R.S.I. VALUE = 5.09

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x12 WOOD E.S.I.: 0.008x25mm=2.42  
R31 F.G. BATT INSUL. E.S.I.: 241mm TH = 5.46  
13% FRAMING AND 87% INSUL FOR 24" O.C.

100  
[10(2.42)+(90(5.46))] =4.85

DETAIL 9.36.2.6.A-3 - EXTERIOR WALLS



ASSEMBLY 9.36.2.6.A-3 (a)  
TYPICAL EXTERIOR WALLS  
REQUIRED MIN. E.S.R.I. VALUE = 2.78

- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- CLADDING MATERIAL AS PER BUILDING SPECIFICATIONS (E.S.R.I. VARIES) (SEE LIST OF TYPICAL CLADDING MATERIALS)
- RAIN SCREEN W/ MIN. 10mm STRAPPING U.N.O. (E.S.R.I. 0.12)
- BUILDING PAPER (E.S.R.I. 0.0)
- 1/2" PLYWOOD SHEATHING (E.S.R.I. 0.11)
- 2x6 @ 16" O.C. W/ 5.5" F.G. BATT INSUL (R20) (E.S.R.I. 2.36) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 1/2" GYPSUM WALL BOARD (E.S.R.I. 0.08)
- INTERIOR AIR FILM (E.S.R.I. 0.12)

TOTAL EFFECTIVE R.S.I. VALUE = 2.82 \*

\* TOTAL E.S.R.I. EXCEEDS REQUIREMENT WITHOUT CLADDING INCLUDED IN CALCULATION HOWEVER CLADDING MUST BE PROVIDED. SEE LIST OF TYPICAL CLADDING MATERIALS FOR E.S.R.I. VALUES.

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x6 WOOD E.S.I.: 0.008x140mm=1.19  
R20 F.G. BATT INSUL. E.S.I.: 140mm TH = 3.34  
23% FRAMING AND 77% INSUL FOR 16" O.C.

100  
[23(1.19)+(77(3.34))] =2.36

THE EFFECTIVE THERMAL RESISTANCE OF RIM JOISTS SHALL BE NOT LESS THAN THAT REQUIRED FOR ABOVE-GROUND WALLS.

ASSEMBLY 9.36.2.6.A-3 (b)  
TYPICAL JOIST SPACE AT EXTERIOR WALLS  
REQUIRED MIN. E.S.R.I. VALUE = 2.78

- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- CLADDING MATERIAL AS PER BUILDING SPECIFICATIONS (E.S.R.I. VARIES) (SEE LIST OF TYPICAL CLADDING MATERIALS)
- RAIN SCREEN W/ MIN. 10mm STRAPPING U.N.O. (E.S.R.I. 0.12)
- BUILDING PAPER (E.S.R.I. 0.0)
- 1.5" THICK RIM JOIST (E.S.R.I. 0.33)
- 5.5" THICK BATT INSULATION (R20) (E.S.R.I. 3.36)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- INTERIOR AIR FILM (E.S.R.I. 0.12)

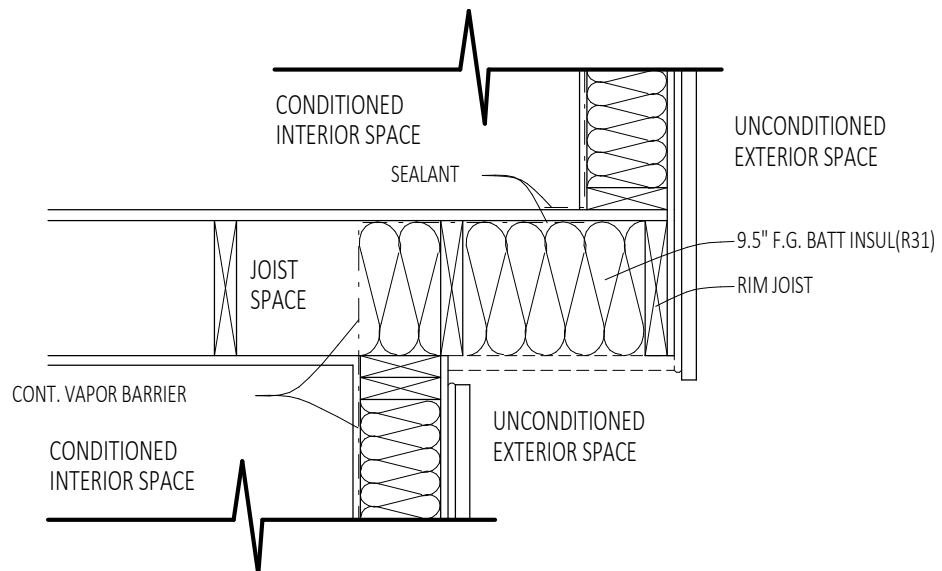
TOTAL EFFECTIVE R.S.I. VALUE = 3.95 \*

\* TOTAL E.S.R.I. EXCEEDS REQUIREMENT WITHOUT CLADDING INCLUDED IN CALCULATION HOWEVER CLADDING MUST BE PROVIDED. SEE LIST OF TYPICAL CLADDING MATERIALS FOR E.S.R.I. VALUES.

TYP. CLADDING MATERIALS AND ASSOCIATED E.S.R.I. VALUES

- HOLLOW BACKED VINYL SIDING - E.S.R.I. 0.11 (SOME PROFILES MAY NOT REQUIRE RAINSCREEN HOWEVER MINIMUM TOTAL E.S.R.I. WILL BE MET WITH SIDING ONLY)
- 6.35mm FIBER CEMENT SIDING - E.S.R.I. 0.023
- WOOD SHINGLES WITH 190mm EXPOSURE - E.S.R.I. 0.15
- 19mm THICK STUCCO - E.S.R.I. 0.017
- 50mm THICK STONE - E.S.R.I. 0.017
- 100mm THICK BRICK - E.S.R.I. 0.07

DETAIL 9.36.2.6.A-4 - FLOORS OVER UNHEATED SPACES



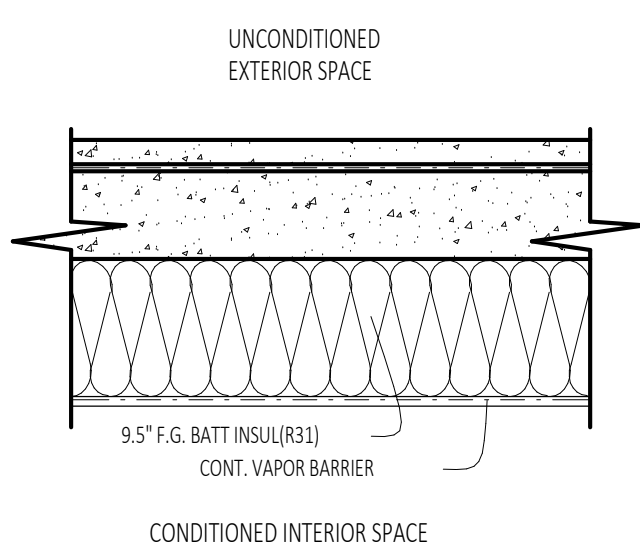
- A WALL OR A FLOOR BETWEEN A CONDITIONED SPACE AND A RESIDENTIAL GARAGE MUST BE AIRTIGHT AND INSULATED BECAUSE, EVEN IF THE GARAGE IS EQUIPPED WITH SPACE-HEATING EQUIPMENT, IT MAY IN FACT BE KEPT UNHEATED MOST OF THE TIME.

- WHERE A COMPONENT OF THE BUILDING ENVELOPE IS PROTECTED BY AN ENCLOSED UNCONDITIONED SPACE, SUCH AS A SUN PORCH, ENCLOSED VERANDA, VESTIBULE OR ATTACHED GARAGE, THE REQUIRED EFFECTIVE THERMAL RESISTANCE OF THE BUILDING ENVELOPE COMPONENT BETWEEN THE BUILDING AND THE UNCONDITIONED ENCLOSURE IS PERMITTED TO BE REDUCED BY E.S.R.I. 0.16.

ALTHOUGH E.S.R.I. VALUES FOR TRUSS JOISTS ARE NOT PROVIDED IN THE CODE IT IS ASSUMED THAT 9.5" AND 11.87" T.J.I. JOISTS ON SIMILAR CENTERS MEET OR EXCEED THE VALUES LISTED FOR DIMENSIONAL LUMBER.

IT IS ASSUMED THAT HEATED CONCRETE TOPPING ADDED TO THE TOP OF THE FLOOR SHEATHING WOULD ONLY INCREASE THE TOTAL E.S.R.I. VALUE OF THE ASSEMBLY AND IS NOT REQUIRED TO BE CALCULATED TO SHOW CONFORMITY WITH THE MINIMUM REQUIRED VALUES.

DETAIL 9.36.2.6.A-5 - SUSPENDED SLAB ROOF



ASSEMBLY 9.36.2.6.A-5 (a)  
SUSPENDED SLAB CEILING WITH SAME E.S.R.I. REQUIREMENTS AS CATHEDRAL CEILINGS  
REQUIRED MIN. E.S.R.I. VALUE = 4.67

- EXTERIOR AIR FILM (E.S.R.I. 0.03)
- MIN. 2" CONCRETE SKIM COAT (E.S.R.I. 0.02)
- TORCH-ON WATERPROOF MEMBRANE (E.S.R.I. 0.00)
- 8" ENG'D CONC. SUSPENDED SLAB (E.S.R.I. 0.08)
- 2x10 @ 16" O.C. W/ 9.5" F.G. BATT INSUL(R31) (E.S.R.I. 4.46) (SEE CALCULATION FOR PARALLEL MATERIALS)
- 6 MIL POLY V.B. (E.S.R.I. 0.0)
- 5/8" GYPSUM WALL BOARD (E.S.R.I. 0.10)
- INTERIOR AIR FILM (E.S.R.I. 0.11)

TOTAL EFFECTIVE R.S.I. VALUE = 4.78

CALCULATION FOR E.S.R.I. OF PARALLEL MATERIALS

2x10 WOOD E.S.I.: 0.008x25mm=2.00  
R31 F.G. BATT INSUL. E.S.I.: 241mm TH = 5.46  
13% FRAMING AND 87% INSUL FOR 16" O.C.

100  
[13(2.00)+(87(5.46))] =4.46

TYPICAL NOTES:

- VENTILATION AND DUCTING MUST BE PROVIDED AS PER B.C.B.C. 2012 SECTION 9.32
- AN AIR BARRIER MUST TO BE INSTALLED AS PER B.C.B.C. 2012 SECTION 9.36
- THE AIR BARRIER SYSTEM MUST COMPLY WITH SECTIONS 9.36.2.9 AND 9.36.2.10 AND MUST SPECIFICALLY BE CONSTRUCTED USING METHODS OUTLINED IN SUBSECTION 9.36.2.10 (8) AND 9.36.2.10 (11).
- ALL INSULATION TO BE INSTALLED AS PER B.C.B.C. 2012 SECTION 9.36

- ALL GARAGE DOORS: MINIMUM NOMINAL R.S.I. VALUE OF 1.1
- ALL ACCESS HATCHES TO UNCONDITIONED SPACES: MAXIMUM U VALUE OF 2.6
- THE MINIMUM LEVEL OF PERFORMANCE REQUIRED FOR WINDOWS, DOORS AND SKYLIGHTS SHALL BE THAT OF THE PERFORMANCE CLASS R
- ALL WINDOWS AND DOORS
- ALL SKYLIGHTS: MAXIMUM

PLAN # - 2-3005.19R-55.33x47.57-B

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ENERGY EFFICIENCY - ABOVE GRADE

SHEET: 10 OF 11

THESE PLANS CONFORM TO THE  
B.C. BUILDING CODE, 2012 ED.

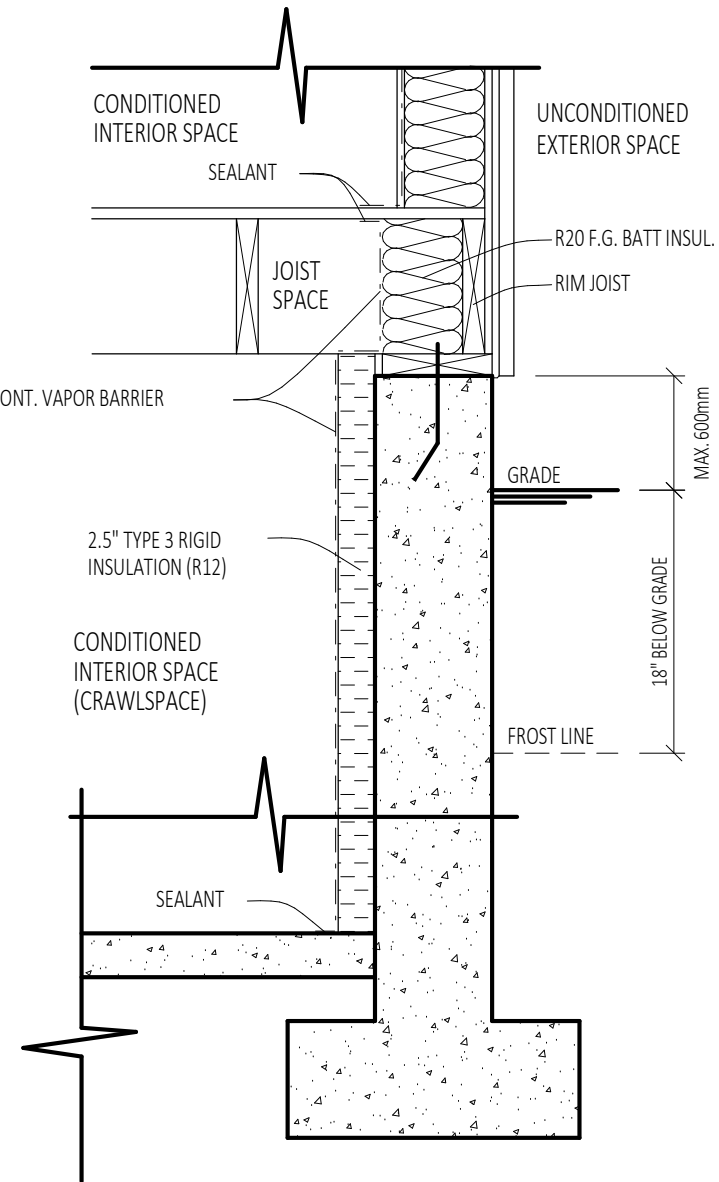
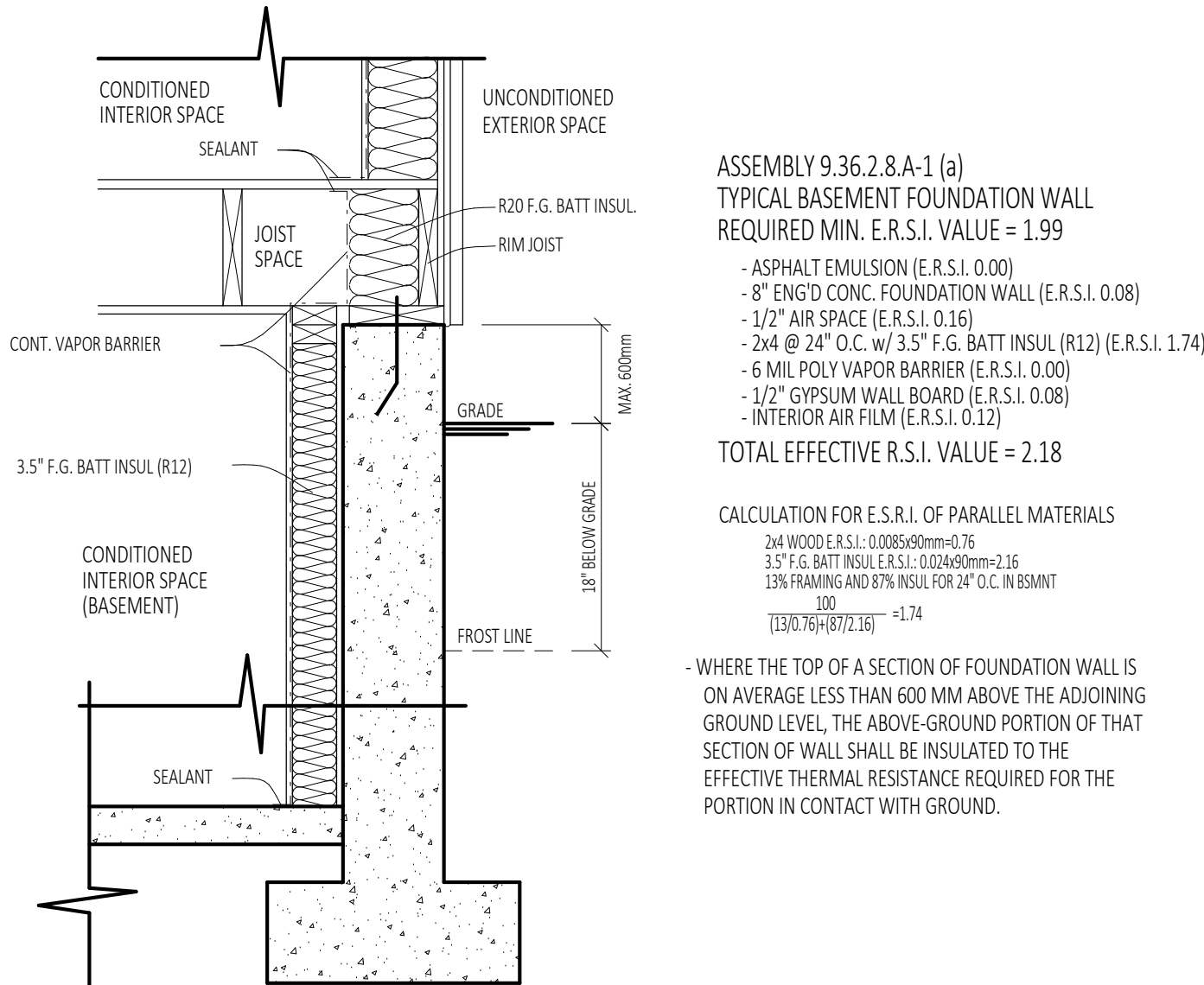
14439 MAGDALEN AVENUE, WHITE ROCK BC

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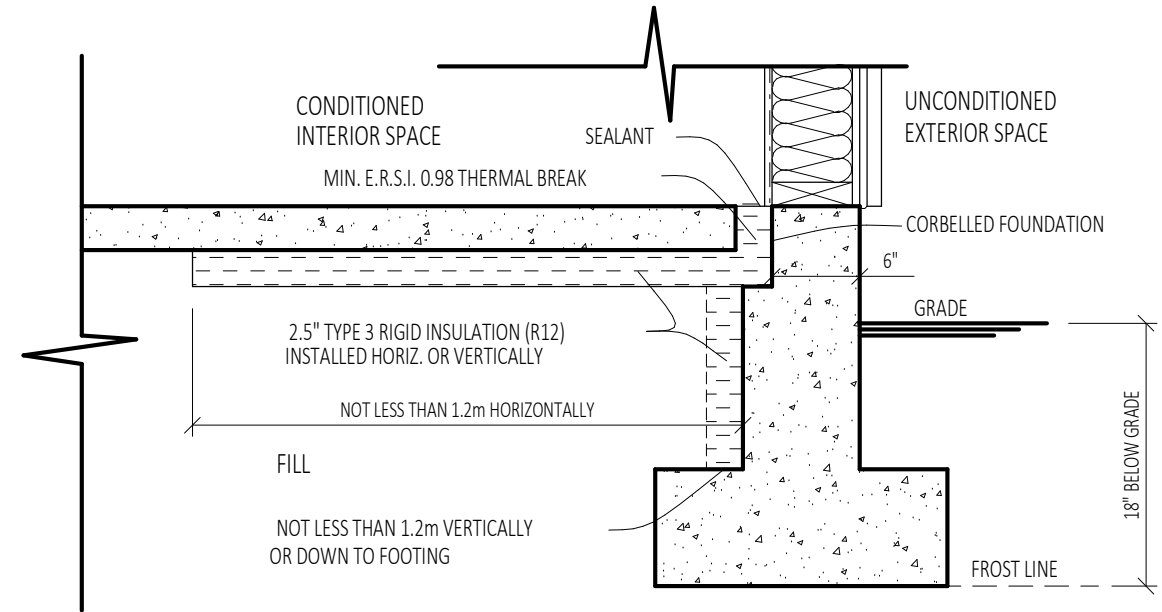
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9.36.2.8.A - EFFECTIVE THERMAL RESISTANCE OF ASSEMBLIES BELOW-GRADE OR IN CONTACT WITH THE GROUND IN BUILDINGS WITHOUT A HEAT-RECOVERY VENTILATOR - CLIMATE ZONE 4

DETAIL 9.36.2.8.A-1 - FOUNDATION WALLS



DETAIL 9.36.2.8.A-2 - UNHEATED FLOOR ABOVE FROST LINE



- UNHEATED FLOORS-ON-GROUND THAT ARE ABOVE THE FROST LINE AND HAVE NO EMBEDDED HEATING PIPES, CABLES OR DUCTS SHALL BE INSULATED TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED
- A) ON THE EXTERIOR OF THE FOUNDATION WALL DOWN TO THE FOOTING, OR
- B) ON THE INTERIOR OF THE FOUNDATION WALL AND, AS APPLICABLE,
- I) BENEATH THE SLAB FOR A DISTANCE NOT LESS THAN 1.2 M HORIZONTALLY OR VERTICALLY DOWN FROM ITS PERIMETER WITH A THERMAL BREAK ALONG THE EDGE OF THE SLAB THAT MEETS AT LEAST 50% OF THE REQUIRED THERMAL RESISTANCE,
- II) ON TOP OF THE SLAB FOR A DISTANCE NOT LESS THAN 1.2 M HORIZONTALLY FROM ITS PERIMETER, OR
- III) WITHIN THE WOODEN SLEEPERS BELOW THE FLOOR FOR A DISTANCE NOT LESS THAN 1.2 M HORIZONTALLY FROM ITS PERIMETER.

SPECIAL NOTE: UNHEATED FLOORS BELOW FROST LINE (BASEMENT OR CRAWLSPACE SLAB) DO NOT REQUIRE INSULATION.

EXCERPT FROM B.C. BUILDING CODE 2012 SECTION 9.36

9.36.2.1. Scope and Application

- Except as provided in Sentence (2), this Subsection is concerned with the loss of energy due to heat transfer and air leakage through materials, components and assemblies, including their interfaces, forming part of the building envelope where it separates conditioned space from unconditioned space, the exterior air or the ground.
- The requirements of this Subsection also apply to components of a building envelope assembly that separate a conditioned space from an adjoining storage garage, even if the storage garage is intended to be heated. (See Appendix A and A.9.36.2.1(5) in Appendix A.)
- Except for daylight shafts addressed in Sentences 9.36.2.6 (3), for the purpose of this Subsection, wall assemblies inclined less than 60° from the horizontal shall be considered as not assemblies, and roof assemblies inclined 60° or more from the horizontal shall be considered as wall assemblies.
- The properties, performance and installation of windows, doors and skylights shall also conform to Section 9.7.
- The properties, location and installation of thermal insulation, air barrier systems, vapour barriers, and materials with low air or vapour permeance shall also conform to Section 9.25.

9.36.2.2. Determination of Thermal Characteristics of Materials, Components and Assemblies

- The thermal characteristics of materials shall be determined by calculation or by testing in accordance with the applicable product standards listed in the Code or, in the absence of such standards or where such standards do not address the determination of thermal resistance, in accordance with:
  - ASTM C177, "Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus," or
  - ASTM C518, "Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus." (See Table A-9.36.2.1 (1) in Appendix A for the thermal characteristics of commonly used materials.)
- Calculations and tests performed in accordance with Sentence (1) shall be carried out at an average temperature of 24.2°C and under a temperature differential of 12.2°C.
- The thermal characteristics of windows, doors and skylights shall be determined by calculation or testing in accordance with:
  - CSA A440.2/A440.1, "Penetration Energy Performance/User Guide to CSA A440.2/05, Penetration Energy Performance," for the reference sites listed therein; or
  - NRCC 100, "Determining Penetration Product U-Factors," and NRCC 200, "Determining Penetration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence," for the reference sites listed therein. (See Appendix A.)
- The effective thermal resistance of opaque building assemblies shall be determined from:
  - Calculations conforming to Article 9.36.2.4, or
  - laboratory tests performed in accordance with ASTM C 1363, "Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus," using an indoor air temperature of 21.1°C and an outdoor air temperature of 26.5°C.
- The thermal characteristics of log walls shall be determined by calculation in accordance with Section 355 of ICC 400, "Design and Construction of Log Structures." (See Appendix A.)

9.36.2.3. Calculation of Ceiling, Wall, Fenestration and Door Areas

- The gross roof-ceiling assembly areas shall be calculated as the sum of the interior surface areas of insulated roof-ceiling assemblies and of skylight openings.
- Except as permitted by Sentence (3), the gross wall area shall be calculated as the sum of the interior surface areas of all exterior building envelope assemblies above the finished ground level that are inclined 60° or more from the horizontal, including:
  - rim joists,
  - fenestration and opaque portions of doors,
  - insulated walls extending from finished ground level to the interior side of the insulated roof-ceiling assembly, and
  - the exposed areas of below-ground building envelope assemblies, where fenestration or doors are located below the plane of the adjacent finished ground.(See Appendix A.)
- Where a building of residential occupancy contains more than 2 dwelling units, the gross wall area enclosing conditioned space shall be permitted to include the interior surface areas of walls that enclose a suite, measured from the top surface of the lowest floor to the underside of the highest ceiling in the suite. (See Appendix A.)

9.36.2.4. Calculation of Effective Thermal Resistance of Assemblies

- In calculating the effective thermal resistance of assemblies for the purpose of comparison with the requirements of Articles 9.36.2.6 and 9.36.2.8, the thermal bridging effect of closely spaced, repetitive structural members, such as studs and joists, and of ancillary members, such as lintels, sills and plates, shall be accounted for. (See Appendix A.)
- Minor penetrations through assemblies, such as pipes, ducts, equipment with through-the-wall venting, packaged terminal air conditioners or heat pumps, shelf angles, anchors and ties and associated fasteners, and minor structural members that must partially or completely penetrate the building envelope to perform their intended function need not be taken into account in the calculation of the effective thermal resistance of that assembly.
- Major structural penetrations, such as balconies and canopy slabs, beams, columns and ornamentation or appendages that must completely penetrate the building envelope to perform their intended function, need not be taken into account in the calculation of the effective thermal resistance of the penetrated assembly, provided:
  - the insulation is installed tight against the outline of the penetration, and
  - the sum of the areas of all such major structural penetrations is limited to a maximum of 2% of the gross wall area calculated as described in Sentence 9.36.2.3 (2).(See Appendix A.)
- Where a component of the building envelope is protected by an enclosed unconditioned space, such as a sun porch, enclosed vestibule or attached garage, the required effective thermal resistance of the building envelope component between the building and the unconditioned enclosure is permitted to be reduced by 0.16 m<sup>2</sup>/K (W). (See Appendix A.)

9.36.2.5. Continuity of Insulation

- Except as provided in Sentences (2) to (9) and in Sentence 9.36.2.4 (3) regarding balconies and canopy slabs, and except for clearances around components required for fire safety reasons, interior building components that meet building envelope components and major structural members that partially penetrate the building envelope shall not break the continuity of the insulation and shall not decrease the effective thermal resistance at their projected area to less than that required in Articles 9.36.2.6 and 9.36.2.8. (See Appendix A.)
- Where an interior wall, foundation wall, firewall, party wall or structural element penetrates an exterior wall or insulated roof or ceiling and breaks the continuity of the plane of insulation, the penetrating element shall be insulated:
  - on both of its sides, inward or outward from the building envelope, for a distance equal to 4 times its uninsulated thickness to an effective thermal resistance not less than that required for exterior walls as stated in Table 9.36.2.6.A, or 9.36.2.6.B,
  - between the planes of insulation of the penetrated element to an effective thermal resistance not less than 55% of that required for the penetrated element, or
  - within but not on an effective thermal resistance not less than that required for the penetrated element.(See Appendix A.)
- Where a masonry fireplace or fire penetrates an exterior wall and breaks the continuity of the plane of insulation, it shall be insulated within the plane of insulation of the wall or within itself to an effective thermal resistance not less than 55% of that required for the exterior wall as stated in Table 9.36.2.6.A, or 9.36.2.6.B. (See Appendix A.)
- Where an ornamentation or appendage penetrates an exterior wall and breaks the continuity of the plane of insulation, the penetrating element shall be insulated:
  - on both of its sides, inward or outward from the building envelope, for a distance equal to 4 times the insulated thickness of the exterior wall to an effective thermal resistance not less than that required for the wall as stated in Table 9.36.2.6.A, or 9.36.2.6.B,
  - within the plane of insulation of the wall to an effective thermal resistance not less than 55% of that required for the exterior wall, or
  - between the penetrating element to an effective thermal resistance not less than that required for the exterior wall.
- Except as provided in Sentences (3) and (9), where two planes of insulation are separated by a building envelope assembly and cannot be physically joined, one of the planes of insulation shall be extended for a distance equal to at least 4 times the thickness of the assembly separating the two planes. (See Appendix A.)
- Where mechanical, plumbing or electrical system components, such as pipes, ducts, conduits, cables, chases, sleeves or recessed fixtures, are placed within and parallel to a wall assembly required to be insulated, the effective thermal resistance of that wall at the projected area of the system component shall be not less than that required by Tables 9.36.2.6.A, 9.36.2.6.B, 9.36.2.8.A, and 9.36.2.8.B. (See Appendix A.)
- Except as permitted by Article 9.36.2.11, where mechanical ducts, plumbing pipes, conduits for electrical systems or communication cables are placed within the insulated portion of a floor or ceiling assembly, the effective thermal resistance of the assembly at the projected area of the ducts, pipes, conduits or cables shall be not less than 2.7 m<sup>2</sup>/K (W).
- Joints and junctions between walls and other building envelope components shall be insulated in a manner that provides an effective thermal resistance that is no less than the lower of the minimum values required for the respective adjoining components. (See Appendix A.)
- Sentence (1) does not apply where the continuity of the insulation is interrupted:
  - between the insulation in the foundation wall and that of the floor slab,
  - by an integral perimeter footing of a slab-on-grade [see Sentences 9.25.2.3 (5) and 9.36.2.8 (8)], or
  - at the horizontal portion of a foundation wall that supports masonry veneer and is insulated on the exterior.

9.36.2.9. Airtightness

- The leakage of air into and out of conditioned spaces shall be controlled by constructing:
  - a continuous air barrier system in accordance with Sentences (2) to (6), Subsection 9.25.3, and Article 9.36.2.10,
  - a continuous air barrier system in accordance with Sentences (2) to (6) and Subsection 9.25.3, and building assembly having an air leakage rate not greater than 0.20 U/m in accordance with CAN/ULC 5742, "Air Barrier Assemblies - Specification," at a pressure differential of 75 Pa, or
  - a continuous air barrier system in accordance with Sentences (2) to (6) and Subsection 9.25.3, and a building assembly having an air leakage rate not greater than 0.20 U/m in accordance with ASTM E 2387, "Determining Air Leakage of Air Barrier Assemblies." (See Appendix A.)
- An air barrier system installed to meet the requirements of Sentence (1) shall be continuous:
  - across construction, control and separation joints,
  - across junctions between different building materials and assemblies, and
  - around penetrations through all building assemblies.
- Windows, doors and skylights and their components shall comply with the minimum air leakage requirements stated in:
  - AAWW/WMA/CNA 100.1.2 (A440), "NAF - North American Fenestration Standard Specification for Windows, Doors, and Skylights" (Harmonized Standard), and
  - CSA A440.3, "Canadian Supplement to AAWW/WMA/CNA 100.1.2 (A440), NAF - North American Fenestration Standard Specification for Windows, Doors, and Skylights" (Canadian Supplement).
- Vehicle access doors that separate heated garages from unconditioned spaces or the exterior shall be weatherstripped around their perimeter to prevent air leakage.
- Refrigerators shall be equipped with doors, enclosures or devices to restrict air movement through the chimney when the fireplace is not in use. (See Appendix A.)
- Where the airtight material used in the air barrier system is installed toward the exterior of the building envelope, its location and properties shall conform to Subsection 9.25.5. (See Appendix A.)

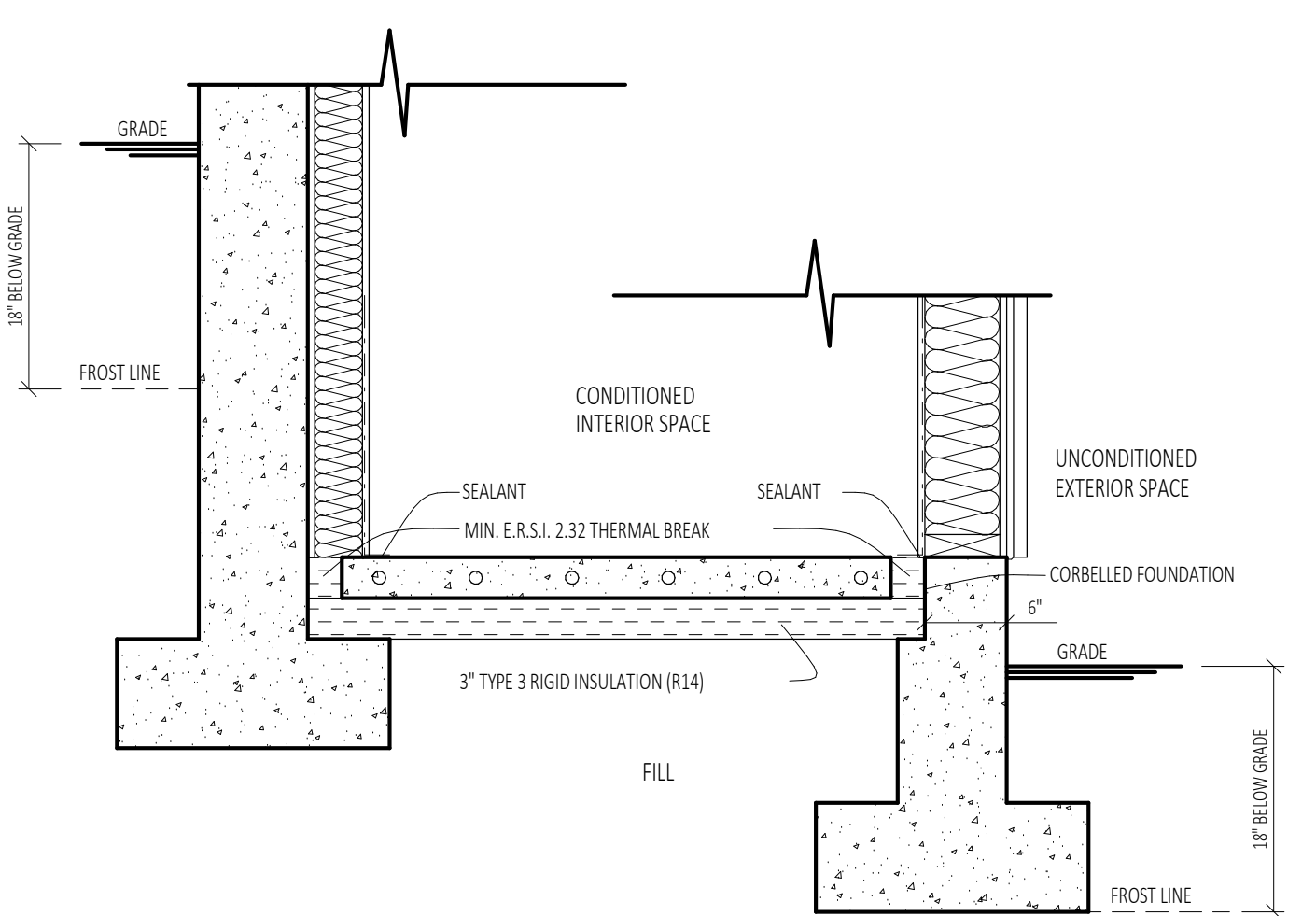
9.36.2.10. Construction of Air Barrier Details

- Materials intended to provide the principal resistance to air leakage shall conform to CAN/ULC 5742, "Air Barrier Materials - Specification." (See A-9.25.5.1 (1) in Appendix A for air leakage characteristics and water vapour permeance values for a number of common materials.)
- Materials referred to in Sentence (1) shall be:
  - compatible with adjoining materials, and
  - free of holes and cracks.(See A-9.36.2.10 (3) in Appendix A.)
- Where the air barrier system consists of rigid panel-type material, all joints shall be sealed. (See A-9.36.2.10 (5) in Appendix A.)
- Where the air barrier system consists of timber joists, all joints shall be sealed to resist airflow through gaps between logs that have shifted due to in-service conditions such as shrinkage and settling.
- Where the air barrier system consists of flexible sheet material, all joints shall be:
  - lapped not less than 50 mm,
  - sealed (See Appendix A), and
  - structurally supported.
- Sealant material used for the purpose of creating a continuous air barrier system shall:
  - be a non-hardening type, or
  - conform to:
    - Subsection 9.27.4,
    - CAN/ULC 5703.1, "Thermal Insulation - Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Material Specification," or
    - CAN/ULC 5703.1.1, "Thermal Insulation - Bead-Applied Two Component Polyurethane Air Sealant Foam, Part 1: Material Specification."
- Penetrations by electrical wiring, outlets, switches or recessed light fixtures through the plane of airtightness shall be constructed airtight:
  - where the component is designed to provide a seal against air leakage, by sealing the component to the air barrier material (See Appendix A), or
  - where the component is not designed to provide a seal against air leakage, by covering the component with an air barrier material and sealing it to the adjacent air barrier material.
- The joint between the foundation wall and the sill plate, between the sill plate and rim joist, between the rim joist and the subfloor material, and between the subfloor material and the bottom plate of the wall above shall be constructed airtight by:
  - sealing all joints and junctions between the structural components, or
  - covering the structural components with an air barrier material and sealing it to the adjacent air barrier material.
- The interfaces between windows, doors and skylights and wall/ceiling assemblies shall be constructed airtight by sealing all joints and junctions between the air barrier material in the wall and the window, door or skylight frame. (See Appendix A.) (See also Subsection 9.7.6.)
- Corbelled floors and floors over unheated spaces or over the exterior shall be constructed airtight by one of the following methods or a combination thereof:
  - sealing all joints and junctions between the structural components, or
  - covering the structural components with an air barrier material and sealing it to the adjacent air barrier material.
- Interior walls that meet exterior walls or ceilings whose plane of airtightness is on the interior of the building envelope and knee walls that separate conditioned space from unconditioned space shall be constructed airtight by:
  - sealing all junctions between the structural components,
  - covering the structural components with an air barrier material and sealing it to the adjacent air barrier material, or
  - maintaining the continuity of the air barrier system above or through the interior wall or below or through the knee wall, as applicable.
- Steel-lined chimneys that penetrate the building envelope shall be constructed airtight by blocking the void between required clearances for metal chimneys and surrounding construction with sheet metal and sealant capable of withstanding high temperatures.
- Masonry or concrete chimneys that penetrate the building envelope shall be constructed airtight by mechanically fastening a metal flange or steel stud that extends not less than 75 mm out from the chimney and sealing the air barrier material to it with a sealant capable of withstanding high temperatures.
- Ducts that penetrate the building envelope shall be constructed airtight by sealing the penetration through the building envelope. (See Appendix A.)
- Plumbing vent stacks pipes that penetrate the building envelope shall be constructed airtight by:
  - sealing the air barrier material to the vent stack pipe with a compatible sealant or sheathing tape, or
  - installing a rubber gasket or prefabricated roof flashing at the penetration of the plane of airtightness then sealing it and mechanically fastening it to the top plate.
- Where a party wall meets the plane of airtightness, that junction shall be constructed airtight by sealing any voids within the party wall at the perimeter to the adjacent air barrier material and by:
  - sealing all junctions between the structural components, or
  - covering the structural components with an air barrier material and sealing it to the adjacent air barrier material.
- Where the concrete in a flat-insulating concrete floor wall acts as the air barrier, the continuity of the plane of airtightness shall be maintained between the concrete and adjacent air barrier materials, minimum values required for the respective adjoining components. (See Appendix A.)
- Sentence (1) does not apply where the continuity of the insulation is interrupted:
  - between the insulation in the foundation wall and that of the floor slab,
  - by an integral perimeter footing of a slab-on-grade [see Sentences 9.25.2.3 (5) and 9.36.2.8 (8)], or
  - at the horizontal portion of a foundation wall that supports masonry veneer and is insulated on the exterior.

2) (Type A) when tested in

2) when tested in

DETAIL 9.36.2.8.A-3 - HEATED FLOOR ABOVE OR BELOW FROST LINE



- FLOORS-ON-GROUND WITH EMBEDDED HEATING DUCTS, CABLES OR PIPES SHALL BE INSULATED TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED UNDER THEIR FULL BOTTOM SURFACE INCLUDING THE EDGES.

- WHERE ONLY A PORTION OF A FLOOR-ON-GROUND HAS EMBEDDED HEATING DUCTS, CABLES OR PIPES, THAT HEATED PORTION SHALL BE INSULATED TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED UNDER ITS FULL BOTTOM SURFACE TO 1.2 M BEYOND ITS PERIMETER INCLUDING EXTERIOR EDGES IF APPLICABLE.

- IN ADDITION TO THE REQUIREMENTS STATED ABOVE, HEATED FLOORS-ON-GROUND SHALL BE INSULATED TO THE EFFECTIVE THERMAL RESISTANCE REQUIRED VERTICALLY

- A) AROUND THEIR PERIMETER, OR
- B) ON THE OUTSIDE OF THE FOUNDATION WALL, EXTENDING DOWN TO THE LEVEL OF THE BOTTOM OF THE FLOOR.

CONSIDERATION MUST BE GIVEN TO THE FOLLOWING AT THE TIME OF CONSTRUCTION:

- DUCTS LOCATED OUTSIDE THE THERMAL ENCLOSURE ARE SEALED AND INSULATED TO THE EXTERIOR WALL INSULATION REQUIREMENTS.
- DAMPERS ARE INSTALLED AT AIR INLETS AND EXHAUSTS WHERE REQUIRED.
- PIPING FOR HEATING OR COOLING SYSTEMS IS LOCATED WITHIN THE THERMAL ENCLOSURE OR ARE FULLY INSULATED.
- HVAC EQUIPMENT IS LOCATED WITHIN THERMAL ENCLOSURE OR DESIGNATED TO BE INSTALLED OUTSIDE OF THERMAL ENCLOSURE.
- TEMPERATURE CONTROLS ARE INSTALLED ON HEATING AND COOLING EQUIPMENT.
- INDOOR POOLS ARE COVERED OR HAVE AN HRV/DEHUMIDIFIER.
- HVAC AND SWH EQUIPMENT MEET MINIMUM PERFORMANCE REQUIREMENTS DETERMINED IN TABLES 9.36.2.10, 9.36.2.11, AND 9.36.4.2.
- SERVICE WATER HEATING PIPES ARE INSULATED AT THE INLET AND OUTLET OF STORAGE TANKS.
- SERVICE WATER HEATERS HAVE TEMPERATURE CONTROLS.

ENERGY EFFICIENCY REQUIREMENTS

THIS HOME IS DESIGNED TO COMPLY WITH ENERGY EFFICIENCY REQUIREMENTS AND VALUES FOR CLIMATE ZONE 4 - LOWER MAINLAND AND SOUTHERN VANCOUVER ISLAND WITHOUT H.R.V. AND IS DESIGNED UNDER THE PRESCRIPTIVE PATH OF B.C.B.C. 2012 SECTION 9.36.

THESE PLANS CONFORM TO THE  
B.C. BUILDING CODE, 2012 ED.

THESE DRAWINGS SHOULD BE PRINTED ON 34" x 22" PAPER TO  
BE AT SCALE INDICATED. ON REDUCED SIZE THEY WILL NOT BE TO SCALE.

PLAN #2-3005.19R-55.33x47.57-B

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ENERGY EFFICIENCY - BELOW GRADE

2017-08-03 1:53:32 PM  
SCALE: 1/4" = 1'-0"

SHEET: 11 OF 11

DESIGN BY RAYMOND S. BONTER DESIGNER LTD.

#88 - 1959 152nd STREET

SOUTH SURREY, B.C. V4A 9E3

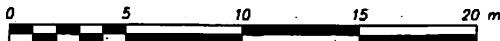
PHONE: 604-535-3322 FAX 1-866-454-4271

EMAIL: info@raymondbonterdesigner.ca



# TOPOGRAPHIC PLAN OF LOT 95, SECTION 10, TOWNSHIP 1, N.W.D., PLAN 36692

City of White Rock B.C.G.S. 92G.006



SCALE 1 : 200  
All distances are in metres

## NOTES:

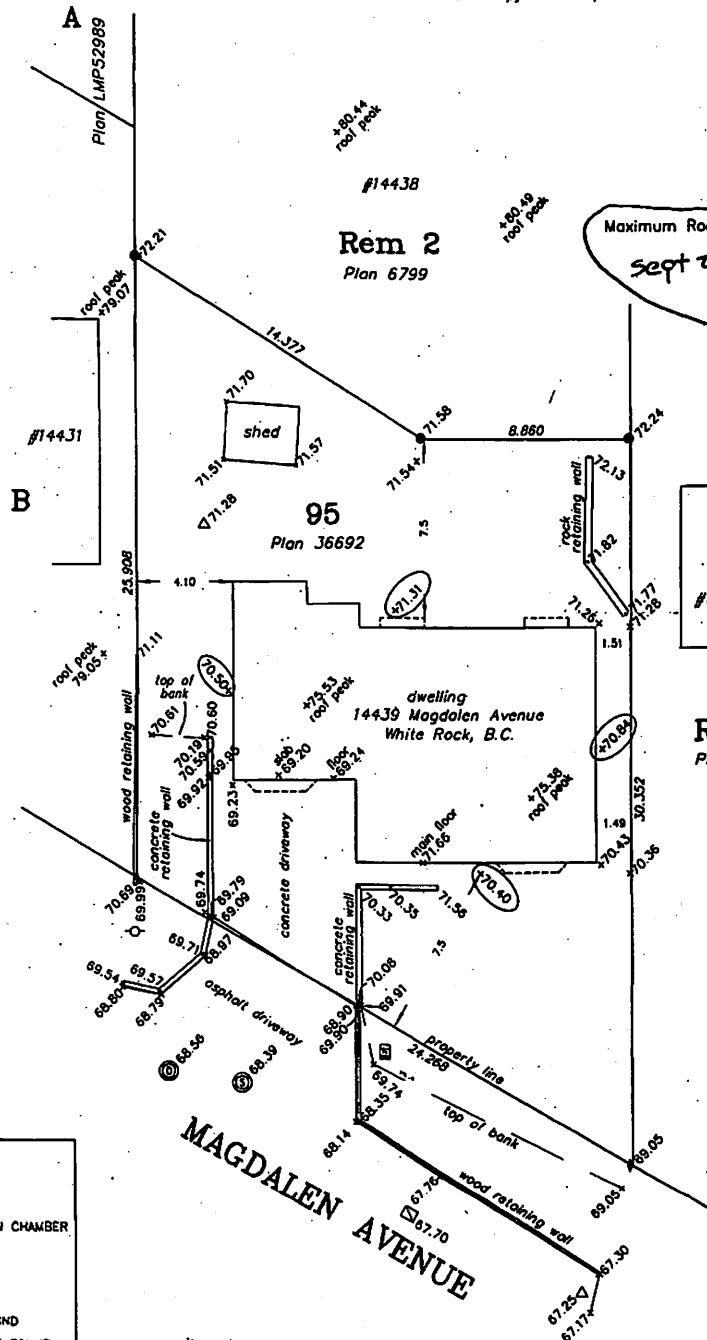
- 1) Elevations are in metres and are geodetic.
- 2) Elevations are derived from OCM 88H3899, Elev = 70.794m located at the intersection of Magdalen Avenue and Archibald Road
- 3) This Plan was prepared for architectural design and site servicing purposes, and is for the exclusive use of our client. The signatory accepts no responsibility or liability for any damages that may be suffered by a third party as a result of reproduction, transmission or alteration to this document without consent of the signatory.
- 4) Prior to any construction, underground services are to be confirmed by the City of White Rock Engineering Dept.
- 5) If there is any conflict in information between the hard copy of this Plan and the digital data provided, the hard copy shall be taken to be correct. Any information taken from digital data shall be confirmed by information shown on the hard copy of this plan.

## Natural Grade Elevations Mid Point Sides

North	71.31 m
East	70.84
South	70.40
West	70.50
Total	283.05
Average	70.76

Maximum Roof Height = 70.76 + 7.70  
= 78.46 m

sept 2/09  
KWS



## SURVEY LEGEND

- ⊙ STORM MANHOLE
- ⊙ SANITARY INSPECTION CHAMBER
- ⊙ WATER METER
- ⊙ POWER POLE
- ⊙ CATCH BASIN
- OLD IRON POST FOUND
- OLD ALUMINUM POST FOUND
- △ CONCRETE NAIL SET
- ⊙ NATURAL GRADE BUILDING MIDPOINT ELEVATION

Cameron Land Surveying Ltd.  
B.C. Land Surveyors  
Unit 206 - 16055 Fraser Highway  
Surrey, B.C. V4N 0G2  
Phone: 604-597-3777  
Fax: 604-597-3783



This plan has been prepared in accordance with the Manual of Standard Practice and is certified correct completed on the 2nd day of September, 2009.

*K. Schuurman*

Kenneth W. Schuurman

B.C.L.S.

This plan lies within the Greater Vancouver Regional District

File: 4702-TP



**SCHOOL CATCHMENTS:  
BAYRIDGE ELEMENTARY  
SEMIAHMOO SECONDARY**

**LOT AREA: 6,012.00 SQFT.**

**DEPTH: 75.50 FEET**

**FRONTAGE: 79.60 FEET**

**MAGDALEN  
AVE**

14439 Magdalen Avenue

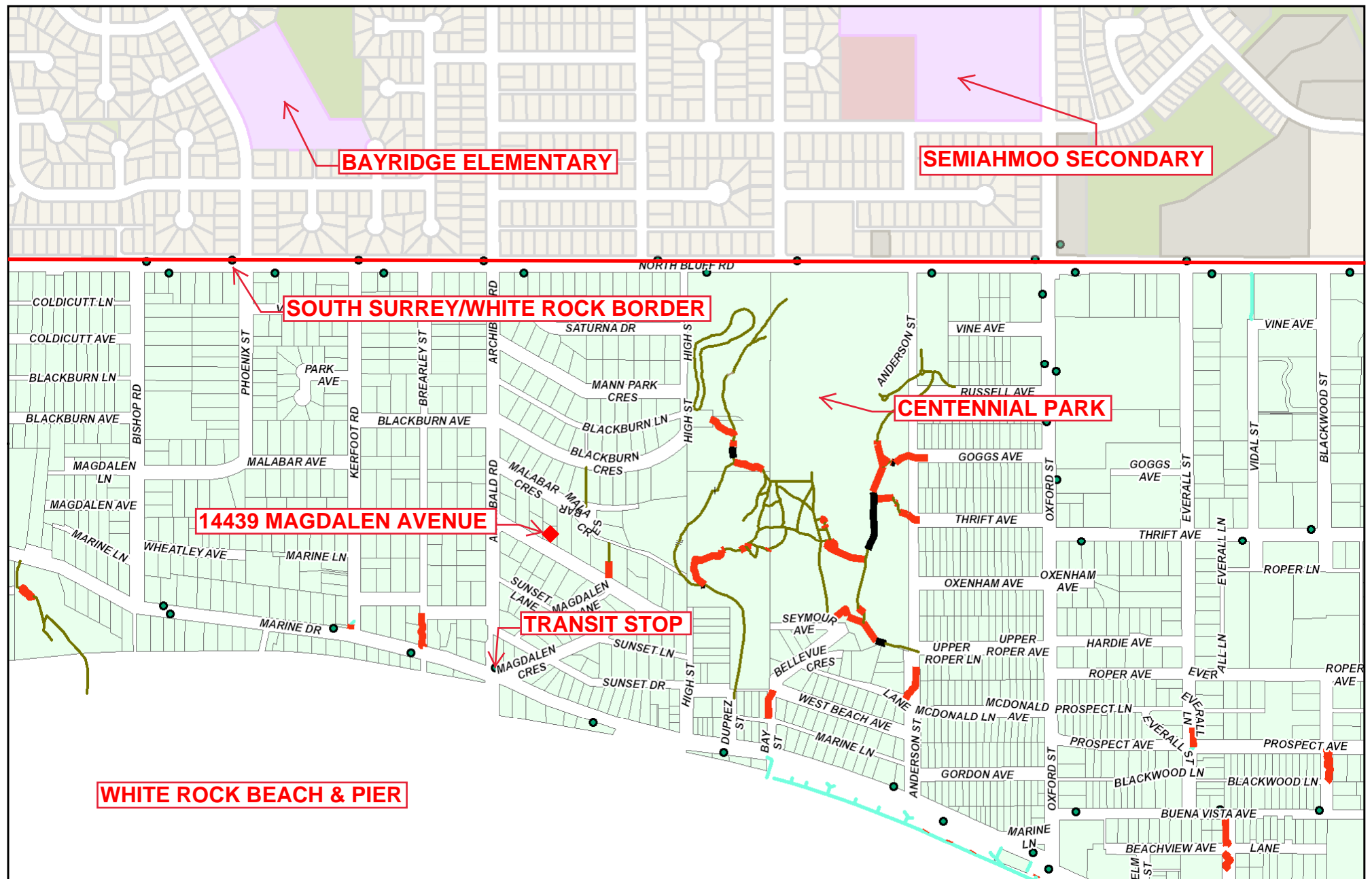
The data provided is compiled from various sources and is NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, legal descriptions and encumbrances must be confirmed at the Land Title Office. Use and distribution of this map is subject to all copyright and disclaimer notices at [cosmos.surrey.ca](http://cosmos.surrey.ca)

Scale: 1:250



Map created on: 2017-10-30





14439 Magdalen Avenue

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Scale: 1:7,500



Map created on: 2017-10-30

**WHITE ROCK**  
*My City by the Sea!*

## 6.0 General Zones – Uses Permitted & Zone Provisions

### 6.1 RS-1 One Unit Residential Zone

The intent of this zone is to accommodate *one-unit* residential *buildings* on *lots* of 464 square metres (4,995 square feet) or larger.

#### 6.1.1 Permitted Uses:

- 1) a *one-unit residential use* in conjunction with not more than one (1) of the following accessory uses:
  - a) an *accessory child care centre* in accordance with the provisions of Section 5.1.
  - b) an *accessory boarding use* in accordance with the provisions of Section 5.4.
  - c) an *accessory registered secondary suite* in accordance with the provisions of Section 5.5.
  - d) an *accessory coach house* in accordance with the provisions of Section 5.6.
  - e) an *accessory bed & breakfast use* in accordance with the provisions of Section 5.7.
  - f) an *accessory vacation rental* in accordance with the provisions of Section 5.8.
- 2) an *accessory home occupation* in conjunction with a *one-unit residential use* and in accordance with the provisions of Section 5.3;
- 3) a *care facility* in accordance with the provisions of Section 5.1.
- 4) notwithstanding the above, on lots with less than the minimum required *lot area*, a one-unit residential use only is permitted.
- 5) notwithstanding 1) above, both an *accessory bed and breakfast use* and an *accessory vacation rental* may be permitted in combination and operated as a single business when limited to a maximum combination of four (4) *sleeping units* and eight (8) adult guests.

#### 6.1.2 Lot Size:

- 1) The minimum *lot width*, *lot depth* and *lot area* in the RS-1 zone are as follows:

Lot width	15.0m (49.2ft)
Lot depth	27.4m (89.9ft)
Lot area	464.0m <sup>2</sup> (4,994.6ft <sup>2</sup> )

#### 6.1.3 Lot Coverage:

- 1) The maximum *lot coverage* is as follows:
  - a) 45% for lots with less than or equal to 696 square metres *lot area*;
  - b) 40% for lots with greater than 696 square metres *lot area*.

#### 6.1.4 Floor Area:

- 1) maximum *residential gross floor area* shall not exceed 0.5 times the *lot area*.
- 2) maximum permitted floor area of a 2<sup>nd</sup> storey for a *principal building* shall not exceed 80% of the footprint for the 1<sup>st</sup> storey including attached garage and that portion of any covered porch, deck or carport. Notwithstanding, existing *principal buildings* constructed or issued a building permit prior to adoption of this bylaw are



exempt from this requirement except for proposed major additions which increase the *residential gross floor area* by 50% or more.

- 3) notwithstanding any other provision in this bylaw, only one basement storey is permitted.

6.1.5 Building Heights:

- 1) *principal buildings* shall not exceed a *height* of 7.7m (25.26ft).
- 2) *ancillary buildings* containing an *accessory coach house* shall not exceed a *height* of 7.0m for a *building* with a minimum roof slope of 6:12, and shall not exceed a *height* of 6.0m for a *building* with any lesser roof slope.
- 3) *ancillary buildings* and *structures* shall not exceed a *height* of 5.0m.

6.1.6 Minimum Setback Requirements:

- 1) *principal buildings* and *ancillary buildings and structures* in the RS-1 zone shall be sited in accordance with the following minimum *setback* requirements:

<b>Setback</b>	<b>Principal Building</b>	<b>Ancillary Buildings and Structures</b>
Front lot line	7.5m (24.61ft)	Not permitted
Rear lot line	7.5m (24.61ft)	1.5m (4.92ft)
Rear lot line on a lot with an exterior side yard requirement of 7.5m, where the rear lot line abuts the interior side lot line of an adjacent residential lot	3.8m (12.47ft)	1.5m (4.92ft)
Interior side lot line	1.5m (4.92ft)	1.5m (4.92ft)
Interior side lot line (abutting a lane)	2.4m (7.87ft)	2.4m (12.47ft)
Exterior side lot line (where the rear lot line abuts a lane, or where the rear lot line abuts the rear lot line of an adjacent residential lot or abutting an interior or rear lot line for a commercial use)	3.8m (12.47ft)	3.8m (12.47ft)
Exterior side lot line (where the rear lot line abuts the interior side lot line of an adjacent residential lot)	7.5m (24.61ft)	7.5m (24.61ft)

6.1.7 Ancillary Buildings and Structures:

Except as otherwise provided in Section 4.13 and in addition to the provisions of subsections 6.1.5 and 6.1.6 above, the following also applies:

- 1) there shall be not more than one *ancillary building* per *lot*.
- 2) *ancillary buildings and structures* shall not be located in any required *front yard* or *exterior side yard* area.
- 3) *Ancillary buildings and structures* shall not be sited less than 3.0m from a *principal building* on the same *lot*.

6.1.8 Accessory off-street parking shall be provided in accordance with the provisions of Section 4.14.

North Bluff Rd./ 16th Ave.



## Legend

- Legend:

  - City Limits
  - Parks
  - Walkways
  - Streets
  - Heritage Marker
  - Trails



# WHITE ROCK

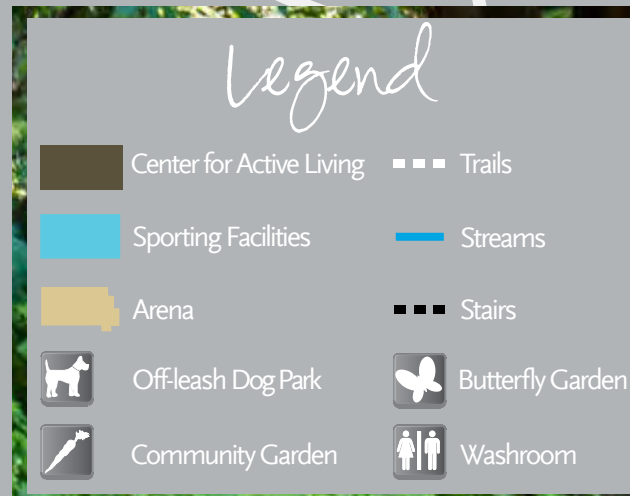
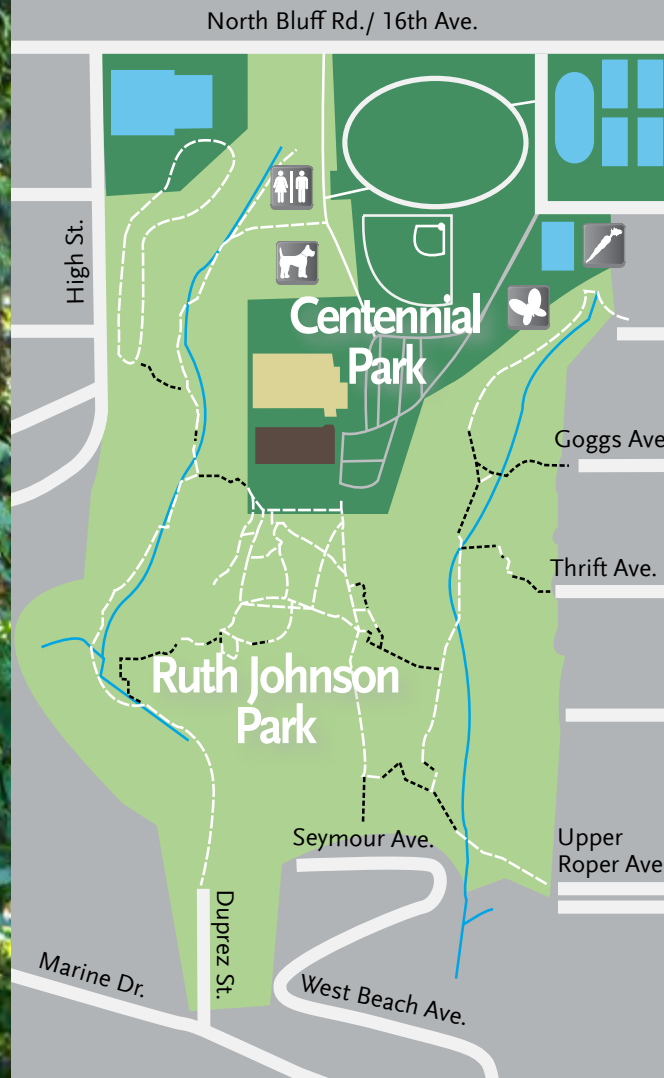
*Our City by the Sea!*

★ map is not to scale

# City Parks

All parks are open from dawn to dusk

- 1 **Barge Park**  
13689 Malabar Avenue
- 2 **Bayview Park**  
14586 Marine Drive
- 3 **Bryant Park**  
15150 Russell Avenue
- 4 **Centennial/Ruth Johnson Park**  
14600 North Bluff Road
- 5 **Coldicutt Park**  
14064 Marine Drive
- 6 **Davey Park**  
1131 Finlay Street
- 7 **Dr. R.J. Allan Hogg Rotary Park**  
15479 Buena Vista Avenue
- 8 **Emerson Park**  
15707/15725 Columbia Avenue
- 9 **Gage Park**  
15100 Columbia Avenue
- 10 **Goggs Park**  
15497 Goggs Avenue
- 11 **Hodgson Park**  
15050 North Bluff Road
- 12 **Maccaud Park**  
1475 Kent Street
- 13 **Memorial Park**  
15300 Block Marine Drive
- 14 **Stager Park**  
15200 Columbia Avenue
- 15 **Totem Park**  
15400 Block Marine Drive



# City of White Rock Map

PARKS AND TRAILS

**WHITE ROCK**  
*City by the Sea!*



## WHITE ROCK BEACHES

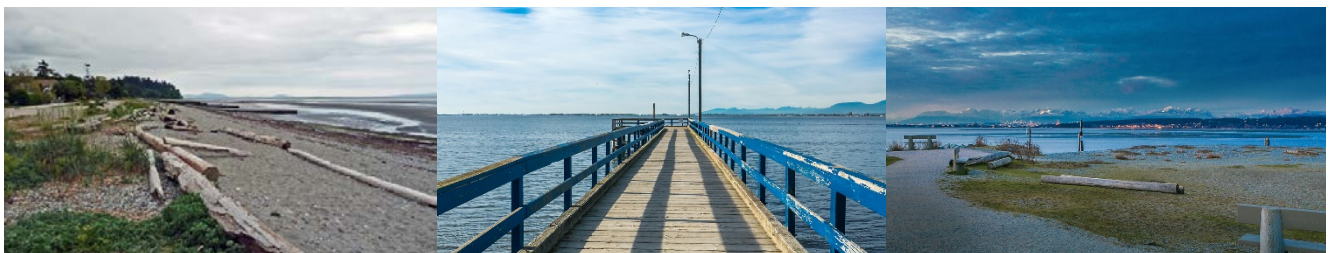
**White Rock Beach** is located just two miles north of the US border and only 35 minutes south of the City of Vancouver, BC. White Rock is known for its sandy beaches, stunning sunsets and fair weather. The 1,500 ft. long White Rock pier is a favorite destination spot for tourists and residents, and the 2.5km long beach promenade promises strollers a refreshing walk and connects west beach and east beach at the ocean's side. West Beach is the hip and trendy Laguna Beach of the lower mainland, with ocean view bistros, fine restaurants, live music waterfront musicians, artists and fabulous shopping that extend along Marine Drive.



**East Beach** is the closest White Rock Beach to the US border with both the Semiahmoo Park and Reserve as its neighbors. East Beach is the quieter side of White Rock and has a familial ambiance that appeals to the young and old alike. You may enjoy fish & chips on the beach, visit Marine Drive shops and galleries or dine in at one of many White Rock restaurants.



**Crescent Beach** in nearby South Surrey, is located at the end of Crescent Road near the northern end of Semiahmoo Bay and the mouth of the Nicomekl River'. This beach has a more rustic, natural feel with a graveled seaside promenade, quaint ocean side homes, and a variety of bistros that will please most every palate. **Crescent Rock Naturist Beach** is just South of Crescent Beach. You walk past the 101 steps metal staircase (West end of 24th Ave) until you get to the Crescent Rock Boulder. It's like the White Rock, but a little smaller, only 120 tonnes! Just past this point and for the next 200m is Crescent Rock Naturist Beach.



### SOUTH SURREY/WHITE ROCK SCHOOL RANKINGS 2016/2017

	Elementary Schools	Public/Private	2016/17 Ranking	Ranking in the Most Recent 5 Yrs.	Overall Rating
1	Semiahmoo Trail Elementary	Public	193/946	101/811	7.9/10
2	Morgan Elementary	Public	229/946	106/811	7.8/10
3	Chantrell Park Elementary	Public	193/946	106/811	7.8/10
4	Rosemary Heights Elementary	Public	256/946	117/811	7.7/10
5	Bayridge Elementary	Public	132/946	117/811	7.7/10
6	Crescent Park Elementary	Public	240/946	161/811	7.3/10
7	Ocean Cliff Elementary	Public	215/946	187/811	7.1/10
8	Laronde Elementary	Public	271/946	187/811	7.1/10
9	Ray Shepherd Elementary	Public	315/946	265/811	6.7/10
10	South Meridian Elementary	Public	361/946	319/811	6.4/10
11	Peace Arch Elementary	Public	640/946	319/811	6.4/10
12	Sunnyside Elementary	Public	382/946	342/811	6.3/10
13	White Rock Elementary	Public	663/946	360/811	6.2/10
14	H.T. Thrift Elementary	Public	538/946	428/811	5.9/10
15	Pacific Heights Elementary	Public	432/946	456/811	5.8/10
16	Jessie Lee Elementary	Public	335/946	471/811	5.7/10
	<b>Private Schools</b>		<b>2016/17 Ranking</b>		
1	Southridge	Private	1/946	1/811	10.0/10
2	Star of the Sea	Private	44/946	24/811	9.4/10
3	White Rock Christian	Private	64/946	161/811	7.3/10
	<b>Secondary Schools</b>		<b>2016/17 Ranking</b>		
1	Elgin Park Secondary	Public	57/253	42/246	7.4/10
2	Semiahmoo Secondary	Public	37/253	34/246	6.9/10
3	Earl Marriott Secondary	Public	52/253	87/246	6.6/10