

DESIGN LOADS: (PART 9) 😾

SNOW: Ss = 1.9 kPa, Sr = 0.4 kPa S = 1.45 kPa (GUELPH) LIVE: LL = 1.9 kPa

DEAD: DL ROOF = 0.75 kPa

DL FLOOR = 0.5 kPa FOUNDATIONS TO BEAR DIRECTLY ON MATERIAL SUITABLE FOR 75 kPa (1500 psf) BEARING PRESSURE, UNLESS NOTED OTHERWISE.

BACKFILL: LL SURCHARGE = 2.4 kPa

SOIL = 480 kg/m<sup>3</sup> (EQUIVALENT FLUID DENSITY - OBC 9.4.4.6)

STRUCTURAL NOTES: 🖈

1. LUMBER SHALL BE SPF No. 1/2 OR BETTER UNLESS NOTED OTHERWISE. MOISTURE CONTENT SHALL BE 19% OR LESS.

2. WOOD IS NOT PERMITTED TO BEAR DIRECTLY ON MASONRY TREATED LUMBER, SUITABLE WOOD PRESERVATIVE OR 6 MIL (0.

3. LVL LUMBER TO BE MIN 2.0E.

4. STRUCTURAL STEEL BEAMS SHALL BE GRADE 350W (CAN/CSA G40.21).

HOLES STAGGERED AT 24" O.C. 6. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 20 MPa FOR FOOTINGS AND WALLS.

. REBAR TO BE DEFORMED BARS WITH A YIELD STRENGTH OF 400 MPA.

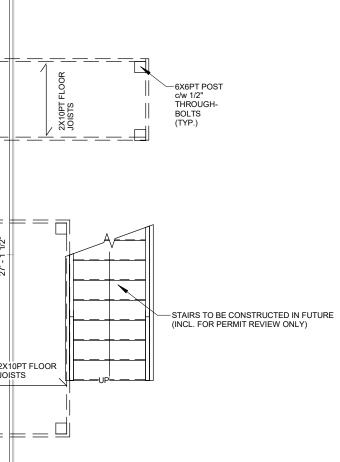
THERWISE, MOISTURE CONTENT SHALL BE 19% OR LESS.
OR CONCRETE WITHOUT PROTECTION. PROVIDE EITHER PRESSURE 0.152mm) POLYETHYLENE SHEET.

5. LATERALLY SUPPORT ALL DROPPED STEEL BEAMS BY PRE-DRILLING FLANGES FOR 1/2" BOLTS TO WOOD NAILERS WITH 9/16"





EXISTING SE	COND FLOOR = 1164SF
	AIN FLOOR = 678SF COND FLOOR = 978SF
	FLOOR = 2116SF ND FLOOR = 2142SF
DIRECT V	/ENTED EXHAUST FAN
	NNECTED SMOKE DETECTOR W/ VISUAL IG COMPONENT
CARBON	MONOXIDE DETECTOR
GENERAL NOTES:	
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	RHODES DESIGN MANAGEMENT BCIN: 128555
	<b>ODES</b> MANAGEMENT
DESIGN	MANAGEMENT 84 Forbes
DESIGN Project Name	84 Forbes 84 Forbes 84 Forbes Ave., Guelph, ON, N1G 1G4
DESIGN Project Name	84 Forbes 84 Forbes 84 Forbes Ave., Guelph, ON, N1G 1G4 Main Floor
DESIGN Project Name	MANAGEMENT 84 Forbes 84 Forbes Ave., Guelph, ON,
DESIGN Project Name Project Address	AANAGEMENT 84 Forbes 84 Forbes Ave., Guelph, ON, N1G 1G4 Main Floor A102



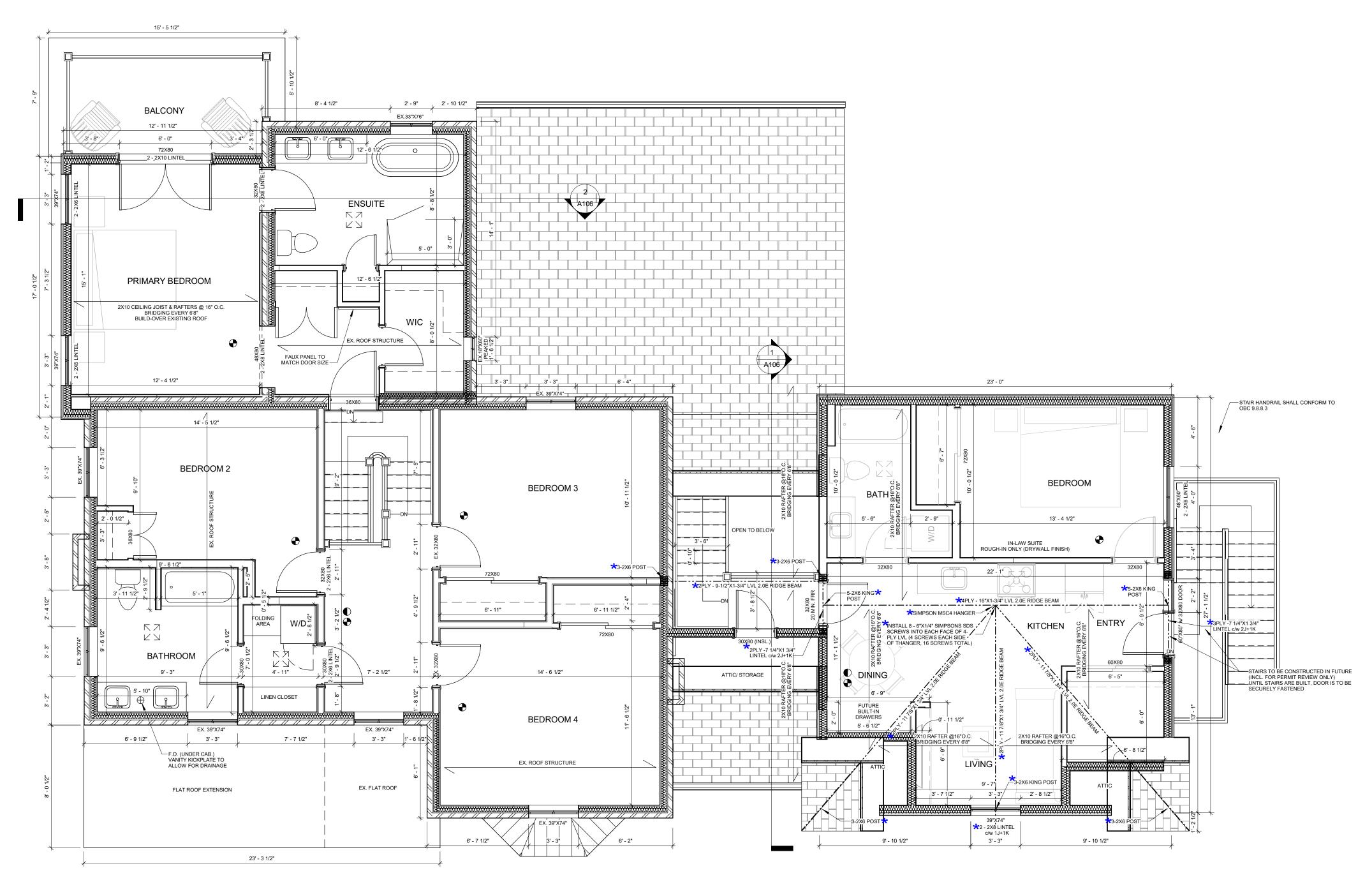
BRICK / STONE LINTELS

• MAX. 11'-6" OPENING = 3 1/2" X 6" X 7/16" L-ANGLE

• MAX. 7'-6" OPENING = 3 1/2" X 3 1/2" X 1/4" L-ANGLE • MAX. 10'-1" OPENING = 3 1/2" X 5" X 5/16" L-ANGLE • MAX. 10'-6" OPENING = 3 1/2" X 5" X 7/16" L-ANGLE



FLOOR AREA:



**1 Ex. Second Floor** 1/4" = 1'-0"

BRICK / STONE LINTELS	
<ul> <li>MAX. 7'-6" OPENING = 3 1/2" X 3 1/2" X 1/4" L-ANGLE</li> <li>MAX. 10'-1" OPENING = 3 1/2" X 5" X 5/16" L-ANGLE</li> <li>MAX. 10'-6" OPENING = 3 1/2" X 5" X 7/16" L-ANGLE</li> <li>MAX. 11'-6" OPENING = 3 1/2" X 6" X 7/16" L-ANGLE</li> </ul>	MEZCON CONSTRUCTION LTD.

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TAC MA ENGINEERS ITEMS DESIGNED AS REQUESTED. SEE PAGE A102 FOR DESIGN LOADS AND STRUCTURAL NOTES	

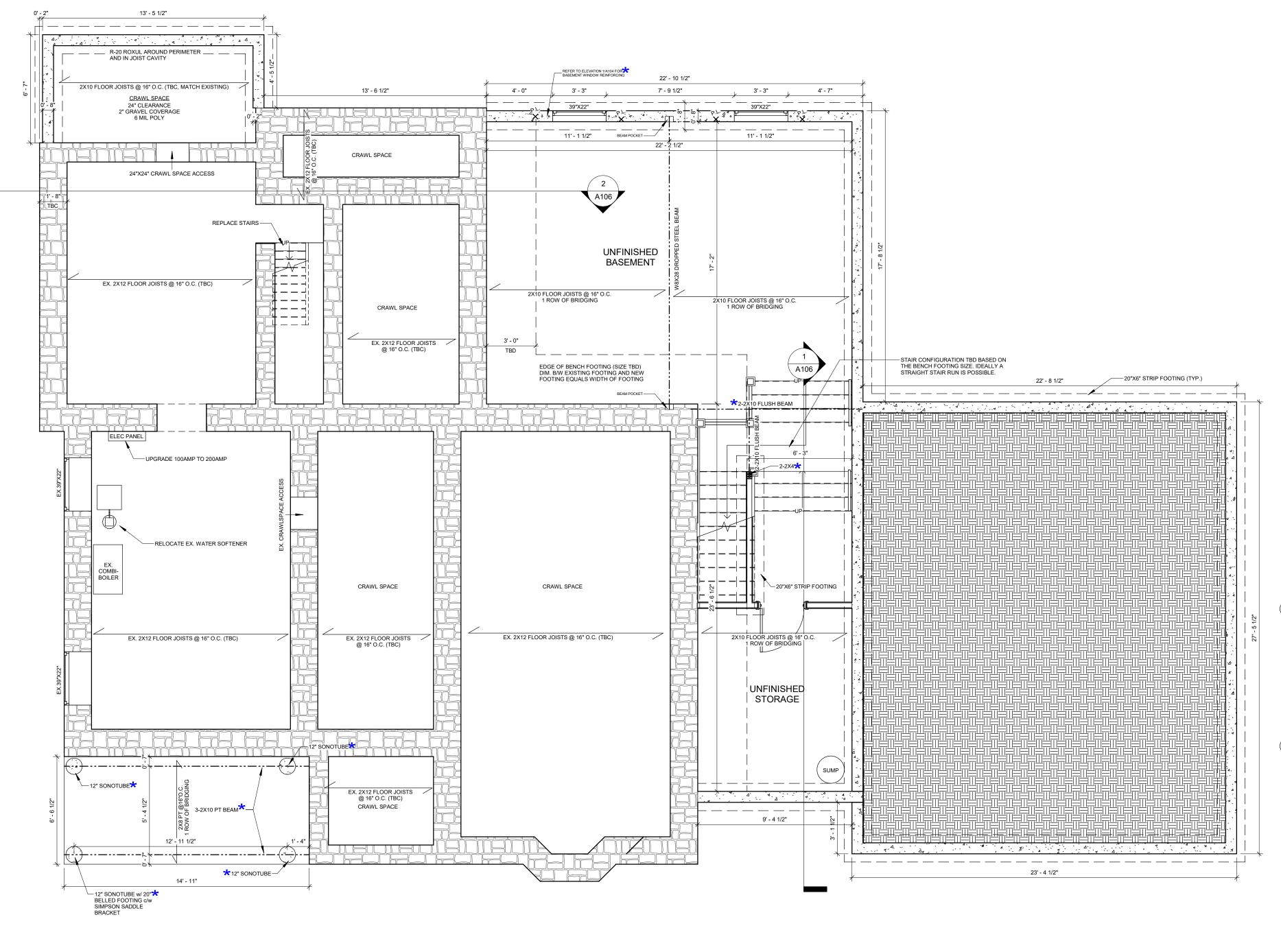
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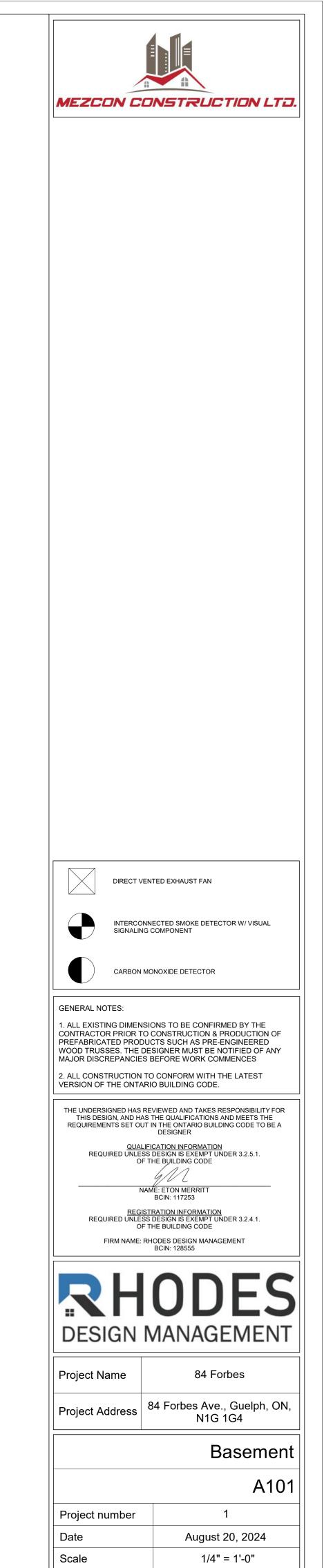
FLOOR AREA	<u>\:</u>
	IN FLOOR = 1438SF COND FLOOR = 1164SF
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	NNECTED SMOKE DETECTOR W/ VISUAL IG COMPONENT
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Service Section Section and	MANAGEMENT
Project Name	84 Forbes
Project Address	84 Forbes Ave., Guelph, ON, N1G 1G4
	Second Floor
	A103
Project number	1

August 20, 2024

1/4" = 1'-0"



**1 T.O. Ex. Footing** 1/4" = 1'-0"



- 12" SONOTUBE w/ 20" BELLED FOOTING

12" SONOTUBE w/ 20" BELLED FOOTING

12" SONOTUBE w/ 20" BELLED FOOTING

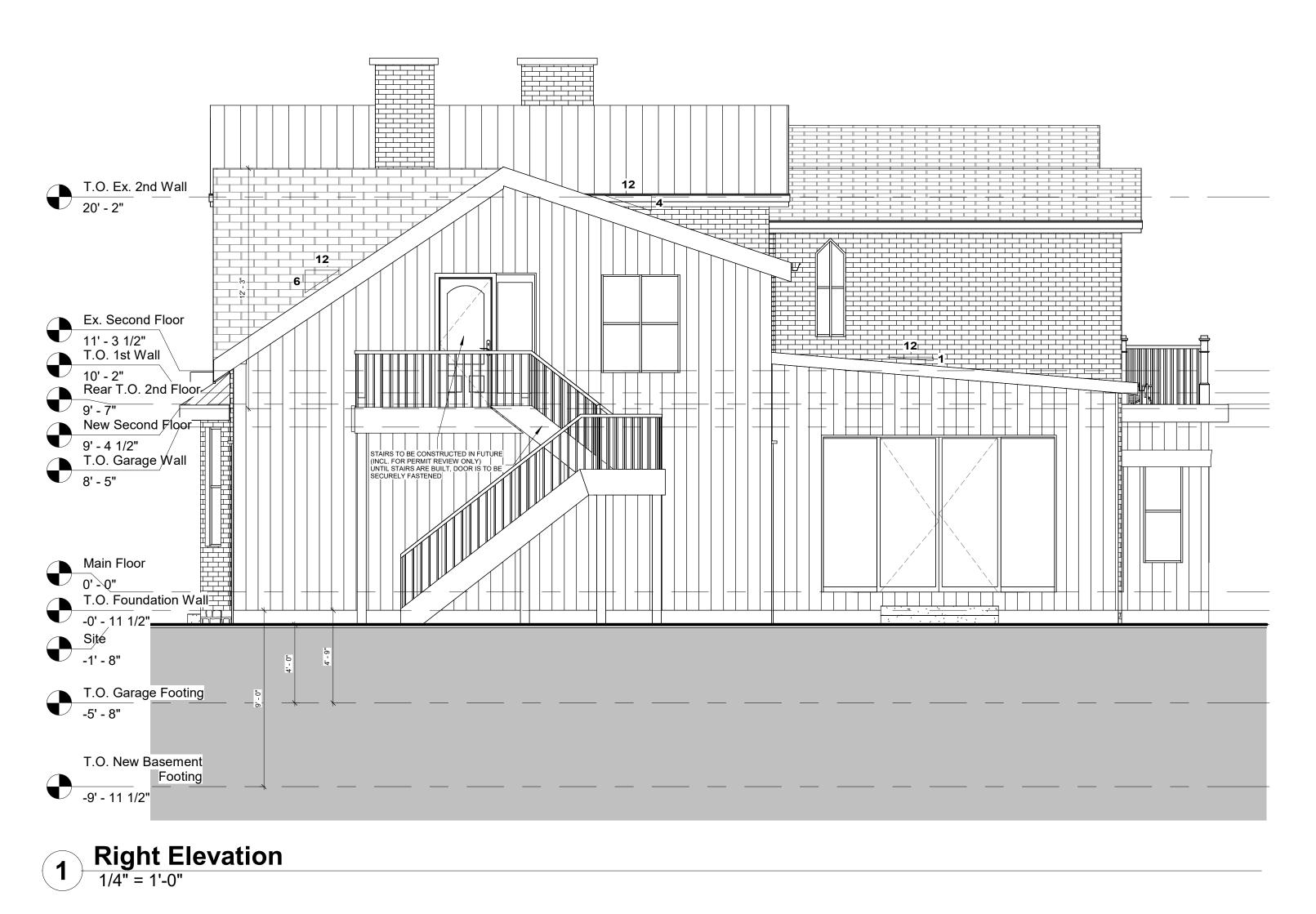






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SEE PAGE A102 FOR DESIGN LOADS AND STRUCTURAL NOTES	Scale	1/4" = 1'-0"

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Project Name	84 Forbes
Project Address	84 Forbes Ave., Guelph, ON, N1G 1G4
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Project number	A104





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Project Name	84 Forbes
Project Address 8	34 Forbes Ave., Guelph, ON, N1G 1G4
	Elevations
Project number	A105
Date Scale	August 20, 2024 1/4" = 1'-0"

#### **GENERAL NOTES:**

1. ALL DIMENSION ARE TAKEN TO THE FACE OF STUD ON INTERIOR. OR THE FACE OF SHEATHING. RIGID INSULATION. OR BRICK ON THE EXTERIOR **UNLESS NOTED OTHERWISE** 

2. LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

3. DRAWINGS ARE NOT TO BE SCALED. 4. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK - INCLUDING EXTERIOR LANDSCAPING

REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS TO THE DESIGNER/OWNER IMMEDIATELY 5. CONTRACTOR TO PROVIDE SOLID WOOD BLOCKING FOR SUSPENDED CABINETS - COORDINATE WITH MILLWORK SUBTRADE. 6. MANUFACTURED ITEMS AND MATERIALS MUST COMPLY WITH ALL REQUIREMENTS OF ULC. CSA OR ANY OTHER REGULATING BODIES AS PER APPLICABLE CODE.

7. STRUCTURAL WOOD ELEMENTS SHALL BE PRESSURE-TREATED FOR TERMITE AND DECAY PROTECTION WHERE THE VERTICAL CLEARANCE BETWEEN WOOD ELEMENTS AND THE FINISHED GROUND LEVEL IS LESS THAN 6" (150MM)

8. WOOD FRAMING MEMBERS IN CONTACT WITH MASONRY OR CONCRETE SHALL BE TREATED TO PREVENT DECAY, OR, SEPARATED FROM THE CONCRETE BY MIN 0.05MM POLYETHYLENE FILM. 9. WALL ENCLOSING THE MAIN BATHROOM IN A DWELLING UNIT, SHALL HAVE REINFORCEMENT TO PERMIT THE FUTURE INSTALLATIONS OF GRAB

BARS ON THE WALL ADJACENT TO A WATER CLOSET, SHOWER AND BATHTUB. 10. PROVIDE INTERCONNECTED SMOKE ALARM WITH VISUAL SIGNALING AS PER NFPA72, AND TO BE INSTALLED AS PER CAN/ULC-S553 11. INSTALL INTERCONNECTED CARBON MONOXIDE ALARM AT THE MANUFACTURER'S RECOMMENDED HEIGHT AS PER CAN/CAS-6.19 OR. ULC2034. 12. ROOF SPACE OR ATTICS ABOVE INSULATED CEILING SHALL BE VENTILATED WITH OPENINGS TO THE EXTERIOR HAVING A TOTAL UNOBSTRUCTED AREA OF NOT LESS THAN 1/150 OF THE INSULATED CEILING AREA (OF WHICH HALF IS TO BE LOCATED IN THE SOFFIT, AND HALF OF THE TOTAL VENT

AREA SHALL BE LOCATED AT OR NEAR THE RIDGE

13. FLASHING IS REQUIRED UNDER ALL JONTED SILLS AND OVERHEAD OF WINDOWS AND OR DOORS IN EXTERIOR WALLS, IF THE DISTANCE BELOW THE EAVES IS MORE THAN A QUARTER OF THE ROOF OVERHANG.

14. FLASHING IS REQUIRED AT ALL INTERSECTIONS OF ROOF AND WALL.

15. GASPROOF ATTACHED GARAGES FROM LIVING SPACE

16. FLOOR LEVELS CONTAINING BEDROOMS TO HAVE AT LEAST ONE WINDOW WITH UNOBSTRUCTED OPERABLE AREA OF 4.1 SF OR GREATER WITH NO DIMENSION LESS THAN 18". EXCEPT WHERE A DOOR IS PROVIDED TO EXTERIOR AT THE SAME LEVEL

17. EXTERIOR CONCRETE STAIRS OVER 2 TREADS/ RISERS TO BE SUPPORTED ON A FOUNDATION

18. ALL LIGHTING AND ELECTRICAL TO COMPLY WITH O.B.C. 9.34

### FRAMING NOTES:

1. WOOD CONSTRUCTION SHALL CONFORM TO CSA STANDARD 068 AND TO THE OF THE ONTARIO BUILDING CODE 2. LUMBER, UNLESS OTHERWISE SPECIFIED, IS TO BE SPF SPECIES GRADE NO. 1 OR NO. 2 CONFORMING TO THE CSA STANDARD 0141 WITH A

MAXIMUM MOISTURE CONTENT OF 15% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE CANADIAN LUMBER STANDARDS ADMINISTRATION BOARD.

3. NAILS, SPIKES AND STAPLES SHALL CONFORM TO CSA STANDARD B111 AND BE GALVANIZED FOR EXTERIOR WORK OR IN HIGHLY HUMID AREAS AND IN TREATED LUMBER, PLAIN ELSEWHERE. NAILING OF FRAMING UNLESS OTHERWISE NOTED AND SHALL CONFORM TO TABLES 9.23.3 A&B IN THE ONTARIO BUILDING CODE.

4. METAL CONNECTORS AND ROUGH HARDWARE, SUCH AS BOLTS, WASHERS, LAGS, AND SCREWS TO BE HOT DIP GALVANIZED. ALL BOLTS SHALL BE A307 AND PROVIDE STANDARD WASHERS AT FACE OF WOOD SURFACE.

5. WOOD PRESERVATIVE, WHERE REQUIRED, IS TO CONFORM TO CS STANDARD 080. ALL EXTERIOR LUMBER EXPOSED TO WEATHER SHALL **BE PRESSURE-TREATED.** 

6. FRAMING ANCHORES, JOIST HANGARS, BEAM HANGARS, POST CAPS, POST ANCHORS, AND ANGLES ARE ALL TO BE BY SIMPSON CONNECTORS OR AN APPROVED EQUAL, SIZED ACCORDING TO THEIR USE IN THIS PROJECT. ALL ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND UTILIZING "SPECIAL" NAILS WHERE REQUIRED. ANGLES SHALL CONFORM TO G40.21 M300W.

7. STUD WALLS TO BE OF SIZE AND SPACING AS NOTED ON THE DRAWINGS. PROVIDE, UNLESS OTHERWISE NOTED . A MINIMUM OF 2 STUDS AT CORNERS, INTERSECTIONS, AND EACH SIDE OF OPENINGS. ALL STUDS TO BE CONTINUOUS FOR THE FULL STOREY HEIGHT WITH NO SPLICING. MID HEIGHT BLOCKING FOR ALL STUDS UNLESS NOTED OTHERWISE. PROVIDE DOUBLE TOP PLATE FOR LOAD BEARING WALLS. TOP PLATES TO BE LAPPED AT CORNERS AND INTERSECTIONS. NON-LOAD BEARING WALLS TO CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE.

8. PROVIDE DOUBLE JOISTS OR BLOCKING UNDER PARTITION WALLS PARALLEL TO JOISTS.

9. PROVIDE BLOCKING OR BRIDGING IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. SPACING TO BE AT THE END AND AT 2100mm (6'-10 1/2") MAXIMUM CENTERS, UNLESS THE JOIST SPAN IS WITHIN 450mm (1'-6") OF THE MAXIMUM SPAN PERMITTED BY THE ONTARIO BUILDING CODE, IN WHICH CASE BLOCKING OR BRIDGING SHALL BE AT MAXIMUM EVERY 1370mm (4'-3") ON CENTER. 10. NOTCHING AND DRILLING ONLY ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ONTARIO BUILDING CODE OR APPROVED BY

ENGINEERED WOOD PRODUCTS MANUFACTURER

11. REMOVE AND REPLACE ANY DEFECTIVE MATERIALS WHEREVER FOUND PRIOR TO FINAL ACCEPTANCE OF THE WORK. 12. CONTACTOR SHALL BRACE ALL CONSTRUCTION TEMPORARILY UNTIL ROOF AND FLOOR SHEATHING. AND ANY OTHER PERMANENT BRACING IS IN PLACE.

13. ALL LUMBER AND TIMBER CONNECTIONS SHALL BE IN ACOORDANCE WITH THE ONTARIO BUILDING CODE AND WITH GOOD CARPENTRY PRACTICES.

14. ALL STEEL BEAMS TO BE G40.21 350W GRADE. ALL SCL/LVL/PSL BEAMS TO BE MIN. 2.0E

15. ALL SCL / LVL / PSL BEAMS AND ALL POINT LOADED BEAMS TO BE DESIGNED BY A PROFESSIONAL ENGINEER

16. ALL BEAMS & LINTELS TO BE SUPPORTED FULL WIDTH TO FOUNDATION, OR APPROVED BEAMS

## PLYWOOD AND OSB SHEATHING NOTES

1. SHEATHING SHALL BE EXTERIOR TYPE PLYWOOD CONFORMING TO CSA 0121-M1978 "DOUGLAS FIR PLYWOOD". OR CSA 0151-M1978 "CANADIAN SOFTWOOD PLYWOOD"

2. ALL SHEATHING TO BE TONGUE AND GROOVE WHERE POSSIBLE, OR UTILIZE GALVANIZED H-CLIPS WHERE SHEATHING WHERE SHEATHING IS TOO THIN TO BE T&G.

3. PLYWOOD SHEATHING SHALL BE INSTALLED WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE SHEATHING AND WITH THE END JOINTS STAGGERED.

4. LAYOUT SHEATHING IN A STAGGERED PATTERN SUCH THAT EACH SHEET IS AT LEAST TWO SPAN CONTINUOUS WHEREVER POSSIBLE 5. ALL END JOINTS MUST BE POSITIONED ALONG CENTER LINE OF SUPPORT BEHIND.

6. SHEATHING SHALL BE INSTALLED WITH AT LEAST 3/32" GAP BETWEEN SHEETS.

7. FASTENERS SHALL BE SPIRAL RING OR THREAD NAILS 2" LON MINIMUM, UNLESS NOTED OTHERWISE.

8. UNLESS NOTED OTHERWISE, SHEATHING SHALL BE NAILED TO SUPPORTS AT 6" O.C. ALONG EDGES AND 10" O.C. ALONG INTERMEDIATE SUPPORTS.

### CONCRETE NOTES:

1. CEMENT SHALL BE PORTLAND CEMENT TYPE 10 UNLESS NOTED OTHERWISE. CONCRETE SHALL BE STONE CONCRETE WITH A UNIT WEIGHT OF 23.5 KN/M3.

# 2. CONCRETE PROPERTIES:

ELEMENT	STRENGTH (MPa)	MAX. AGG. SIZE (mm)	SLUMP (mm)	EXPOSL
FOOTING	20 MPa	40 mm	80 mm	F-2
EXTERIOR SLAB ON GRADE	32 MPa	20 mm	70 mm	C-2
INTEIOR SLABS AND BEAMS	25 MPa	20 mm	70 mm	
FOUNDATION WALLS	20 MPa	20 mm	80 mm	F-2
WALLS (U.N.O.)	20 MPa	20 mm	70 mm	
MASONRY GRÓUT	20 MPa	10 mm	150 mm	

NOTES:

A. PUMP MIX SLUMPS SHALL ALSO CONFORM TO THE ABOVE.

B. WATER CEMENTING MATERIALS RATIONS FOR EXPOSURE CLASSES SHALL BE AS PER CAN3-A23.1

C. AIR CONTENTS FOR EXPOSURE CLASSES SHALL BE AS PER CAN3-A23.1

D. SLUMP TOLERANCES SHALL BE +/- 20 mm FOR SLUMPS LESS THAN 80 mm, AND +/- 30 mm OTHERWISE

3. ALL BOTTOM EDGES OF EXPOSED SLABS AND BEAMS, AND ALL EXPOSED COLUMNS SHALL BE BEVELED 20 mm x 20 mm. ALL TOP EDGES OF SLABS, BEAMS, UPSTANDS, AND STAIRS SHALL BE TOOLED, UNLESS NOTED OTHERWISE. SEE DRAWINGS AND SPECIFICATIONS. 4. NO CALCIUM CHLORIDE, IN ANY FORM, IS PERMITTED IN ANY CONCRETE MIX.

5. CURING AND PROTECTION OF CONCRETE FOR HOT, COLD, OR DRY WEATHER SHALL BE IN ACCORANCE WITH CSA-A23.1 6. ADJUST FOOTINGS FOR HIGH WATER TABLE IF APPLICABLE AS PER O.B.C. 9.15.3.4

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M.S. ZWART

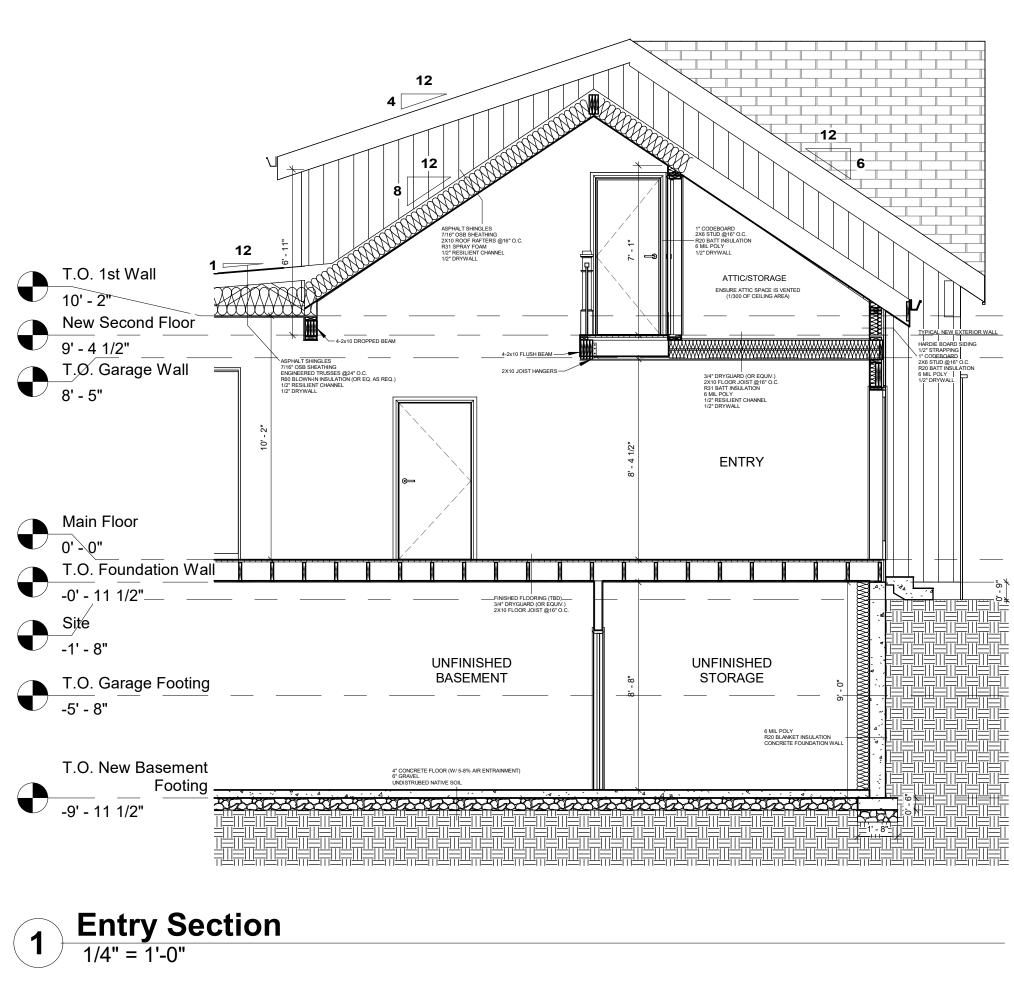
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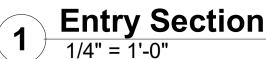
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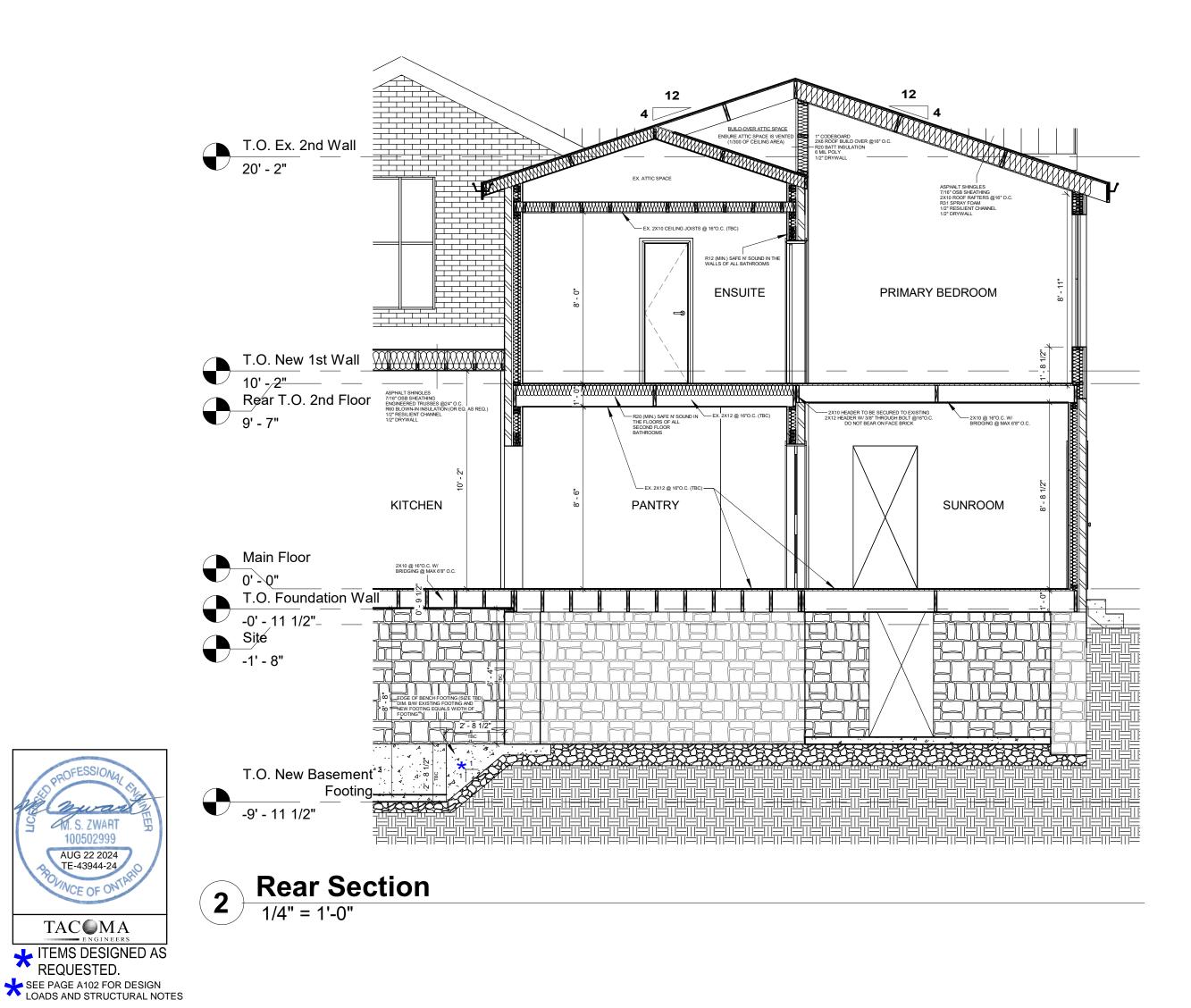
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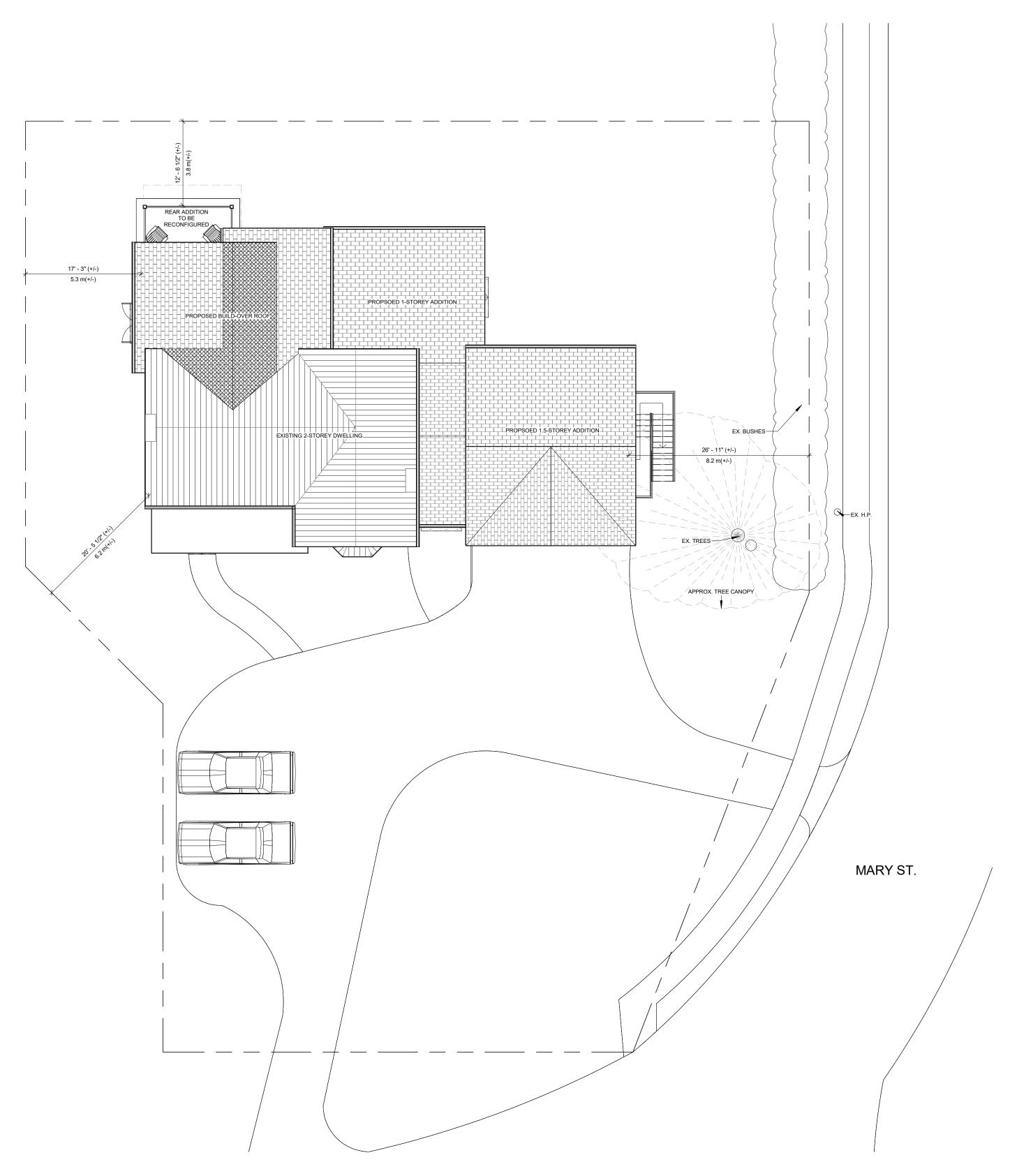






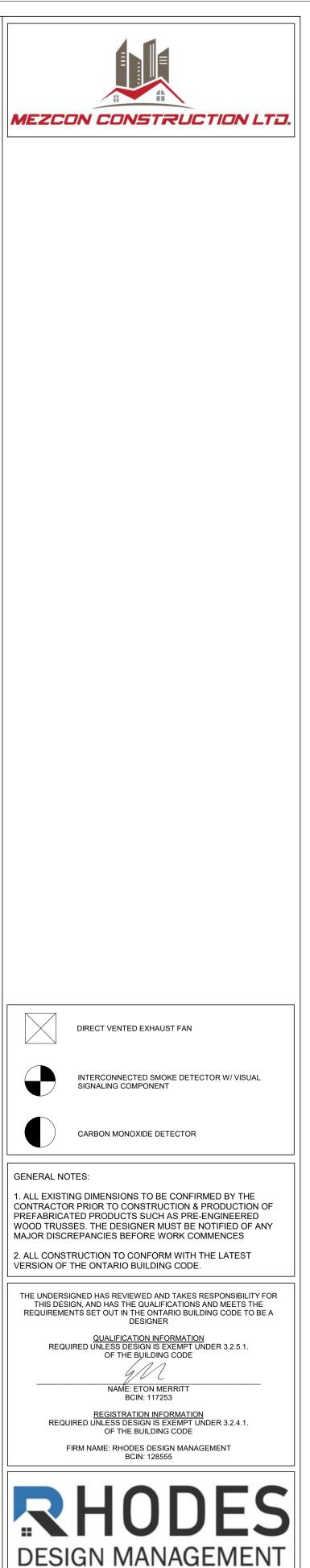
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DIRECT VEI	NTED EXHAUST FAN
	NECTED SMOKE DETECTOR W/ VISUAL COMPONENT
CARBON M	ONOXIDE DETECTOR
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NAME: ETON MERRITT BCIN: 117253	
REGISTRATION INFORMATION REQUIRED UNLESS DESIGN IS EXEMPT UNDER 3.2.4.1. OF THE BUILDING CODE FIRM NAME: RHODES DESIGN MANAGEMENT	
	BCIN: 128555
RHODES DESIGN MANAGEMENT	
Project Name	84 Forbes
Project Address	84 Forbes Ave., Guelph, ON, N1G 1G4
	Site
	A107
Project number	1
Date	August 20, 2024

1" = 10'-0"

Scale