



Humanics Sanctuary - Phase 1B

Site Servicing Report

Type of Document

Site Plan Submission

Project Name

Humanics Sanctuary

Project Number

OTT-00229886-A0

Prepared By: Amr Salem, P.Eng.

Reviewed By: Bruce Thomas, P.Eng.

exp Services Inc.
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Ottawa, ON K2B 8H6
Canada

Date Submitted

November 25, 2022

Humanics Sanctuary - Phase 1B

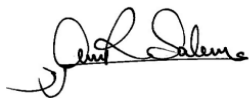
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Date Submitted:
November 25, 2022



Legal Notification

This report was prepared by **exp** Services Inc. for the account of **Humanics Universal Inc.** Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. **Exp** Services Inc. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project

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1 Background

Exp Services Inc. (exp) was retained by Humanics Universal Inc. to provide engineering services for a proposed institutional development located in the City of Ottawa (the former Township of Cumberland).

The 7.52-hectare subject property, herein referred to as Sanctuary Lands, is located on the south side of Old Montreal Road. Site access is provided from Old Montreal Road with an emergency access road to the Cumberland Estates subdivision to the south. Figure 1 in Appendix A provides the overall site location. The Sanctuary Lands is comprised of the northern section of 3400 Old Montreal Road (PIN 145340140) as well as the parcel of land at 3468 Old Montreal Road (PIN 145340141). Cumberland Estate Phase 2, to the south, is comprised of the southern section of 3400 Old Montreal Road (PIN 145340140) and the parcel of land designated as PIN 145340139.

The Site Servicing for Phase 1B of the Sanctuary Lands has been completed by exp Services Inc. along with Morrison Hershfield as noted in the reports listed in Section 2 below.

This report is prepared to illustrate the proposed servicing for Phase 1B of the proposed Sanctuary Lands. This report documents the means by which servicing will be provided for the proposed development and should be read in conjunction with the latest engineering drawings.

2 Previous Reports and Referenced Guidelines

Reports that were reviewed and referenced, include:

- Site Servicing and Stormwater Management Report, Humanics Sanctuary, Revision 3, dated July 2017, by exp Services Inc.
- Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3, 2021, by Morrison Hershfield.
- Phase One Environmental Site Assessment 3400 Old Montreal Road, Ottawa, Ontario, dated March 2016, by exp Services Inc.
- Hydrogeology, Terrain Analysis and Impact Assessment, 3400 Old Montreal Road, Ottawa, Ontario, updated November 25, 2022, by exp Services Inc.
- Geotechnical Investigation, Proposed Humanics Sanctuary and Sculpture Park, updated November 25, 2022, by exp Services Inc.

In addition, various design documents were referred to when preparing this report including:

- Sewer Design Guidelines, Second Edition, Document SDG002, October 2012, City of Ottawa (Guidelines) including:
 - Technical Bulletin ISDTB-2012-4 (20 June 2012)
 - Technical Bulletin ISDTB-2014-01 (05 February 2014)
 - Technical Bulletin PIEDTB-2016-01 (September 6, 2016)
 - Technical Bulletin ISTB-2018-01

- Technical Bulletin ISTB-2018-04
- Technical Bulletin ISTB-2019-02
- Ontario Ministry of Transportation (MTO) Drainage Manual, 1995-1997
- Stormwater Management Planning and Design Manual, Ontario Ministry of the Environment and Climate Change, March 2003 (SMPDM).
- Low Impact Development Stormwater Management Planning and Design Guide, Version 1.0. Credit Valley Conservation and Toronto & Region Conservation (LIDSMPDG).

3 Existing Site Conditions

The site is located on the south side of Old Montreal Road, approximately 440 m west of Beckett's Creek Road as shown on Figure 1 in Appendix A. The site is zoned Rural Residential 1. The municipal address of the proposed site is 3468 Old Montreal Road (PIN 145340141) and a portion of 3400 Old Montreal Road (PIN 145340140) in the City of Ottawa.

The subject site is bisected by a hydro corridor with overhead transmission lines mounted on wooden hydro poles which are found at two locations on the subject site. Surrounding properties consist of Old Montreal Road to the north of the property, vacant land to the south (which will become Cumberland Estates Phase 2), a residential property to the east, and vacant woodlots to the west.

Phase 1A of the contemplated development consisting of a gravel road access, washrooms and septic system has been constructed. The remainder of the site remains primarily undeveloped with stone dust covered pathways and a number of stone sculptures.

4 Proposed Phased Development

As discussed, the approved contemplated development has been phased into Phase 1A and Phase 1B.

- Phase 1A has been constructed and includes the gravel roadway+ access, washrooms and septic system.
- Phase 1B proposes the extension of the existing access road and the construction of two small buildings; a proposed assembly hall located south-east of the subject lot and a workshop building located at the south-west limit of the subject lot, refer to Appendix B for architectural plans of the proposed buildings. As part of Phase 1B, contemplated LID stormwater management measures designed by Morrison Hershfield will also be constructed.

5 Stormwater Management / Drainage

The stormwater management detailed design for the overall site development has been completed by Morrison Hershfield as per the *Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3, 2021.*

The proposed development will adhere to the contemplated stormwater quantity and quality control measures specified in the above-mentioned report.

6 Water Servicing

6.1 Estimated Water Demands

Water demands for the site have been calculated based on projected population and land use. Appendix 4-A of the *Sewer Design Guidelines* provides estimated flows per person for public parks (20 L/day) and assembly halls (8-36 L/day). The projected population of the public park was estimated at 50 persons and maximum occupancy of the assembly hall was estimated at 100 persons.

Water demands were assumed to match the estimated sanitary flows from the proposed development as follows.

- Public Park; = 50 persons x 20 L/day = 1,000 L/day
- Assembly Hall; 100 persons x 36 L/day = 3,600 L/day
- Total Average daily Demand = 4,600 L/day (0.05 L/sec)
- Maximum Daily Demand (x 1.5) = 6,900 L/day (0.08 L/sec)
- Maximum Hourly Demand (x 1.8) = 12,420 L/day (0.14 L/sec)

All buildings onsite are proposed to be serviced by drilled wells.

6.2 Fire Flow Demands

Fire flow demand for the proposed assembly hall was calculated per section 4.2 in the *NFPA 1142 – Standard on Water Supplies for Suburban and Rural Fire Fighting*.

The minimum water supply required for the proposed assembly hall was calculated using section 4.2 - Structures Without Exposure Hazards. The equation below was used to determine the minimum required supply.

$$WS_{min} = \frac{VS_{tot}}{OHC} (CC)$$

where:

WS_{min} = minimum water supply in gal (For results in L, multiply by 3.785.)

VS_{tot} = total volume of structure in ft³ (If volume is measured in m³, multiply by 35.3.)

OHC = occupancy hazard classification number

CC = construction classification number

Using the following parameters; $VS_{total} = 6,360 \text{ ft}^3$, $OHC = 6$, and $CC = 1.5$, the total minimum water supply required for the assembly hall was calculated to be 1,590 gal.

As per section 4.2.2 in the *NFPA*, the minimum water supply for any structure without exposure hazards shall not be less than 2,000 gal (7,600 L). Therefore, it was determined that 7,600 L is the minimum required water supply for fire flow.

The subject property is located within near proximity of Fire Station 72 located at 1442 old Montreal Rd within District 7.

The Ottawa Fire Services (OFS) have obtained the *Superior Tanker Shuttle* accreditation as part of the FUS. The purpose of the testing is to measure OFS' ability to deliver an uninterrupted water supply of over 400GPM at the five (5) minute mark of arriving on scene in rural areas without hydrants. OFS exceeded test requirements, maintaining water flows of over 500GPM for an indefinite period. Therefore, it is anticipated the Ottawa Fire Services will have enough capacity to meet the proposed fire flow demands.

6.3 Well Yields

Two wells have been drilled onsite. The first well, Well #1, has been drilled to the west of the parking lot. The second well, Well #2, has been drilled to the north of the proposed assembly hall building.

The well yield for Test Well # 1 was determined to be above 27 L/min (0.45 L/sec) and the well yield for Test Well # 2 was determined to be 45 L/min (0.75 L/sec). Based on the safe well yields noted in the "Hydrogeology, Terrain Analysis and Impact Assessment Report", the onsite wells can supply the calculated maximum hourly demand of 8.63 L/min (or 0.14 L/sec) anticipated for the development of Phase 1B.

7 Sanitary Servicing

For sewage treatment an onsite septic system constructed as part of Phase 1A will be used to service the proposed assembly hall and existing washrooms. The existing septic system was sized to treat maximum sanitary flows of 4,600 L/day. Refer to Appendix C for a copy of the approved septic permit.

Proposed flows from Phase 1B adhere to the contemplated flows of the existing septic system.

8 Erosion & Sediment Control During Construction

During all construction activities, erosion and sedimentation shall be controlled by the following techniques:

- Limiting the extent of exposed soils at any given time.
- Re-vegetation of exposed areas as soon as possible.
- Minimization of area to be cleared and disruption to adjacent areas.
- Sediment control barriers are to be installed in the locations as shown on drawings.
- A visual inspection shall be completed of the sediment control barriers and outlets and any damage repaired immediately. Care will be taken to prevent damage during construction operations.
- In some cases, barriers may be removed temporarily to accommodate the construction operations. The affected barriers will be reinstated at night when construction is completed.
- The sediment control devices, ditches, swales, culverts and perforated pipes will be cleaned of accumulated silt as required. The deposits will be disposed of as per the requirements of the contract.

- During the course of construction if the engineer believes that additional prevention methods are required to control erosion and sedimentation, the contractor will install additional silt fences or other methods as required to the satisfaction of the engineer.
- Construction and maintenance requirements for erosion and sediment controls to comply with Ontario Provincial Standard Specification (OPSS) OPSS 805, and City of Ottawa specifications F-1005.
- The contractor shall seed the swale channel and side slopes as soon as possible, regularly monitor and provide erosion control measures as required, to allow for the establishment of the grass.
- Rip-rap protection shall be installed at the swale outlet locations, as noted on the drawings.

9 Conclusions

The proposed development, referred to as Humanics Sanctuary Phase 1B, is a phased institutional development which proposes the extension of the existing access road and the construction of two small buildings on the south side of Old Montreal Road, approximately 440 m west of the intersection between Beckett's Creek Road and Old Montreal Road.

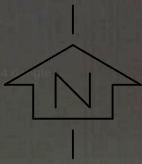
The following summarizes the stormwater management, water system, and sanitary collection and treatment design for this proposed development.

- The proposed assembly hall will be serviced by the existing septic system. Flows from the proposed assembly hall adhere to contemplated flow of the existing septic system.
- Water supply for the site will be serviced by two wells that have been drilled onsite.
- It is anticipated that Ottawa Fire Services will meet the estimated minimum required water supply of 7,600 L for fire flow.
- Stormwater quantity and quality measures are proposed to achieve the design criteria as per Stormwater Management Design Brief Memorandum, Humanics Sanctuary & Sculpture Park, Revision 1, dated December 3 ,2021, by Morrison Hershfield.

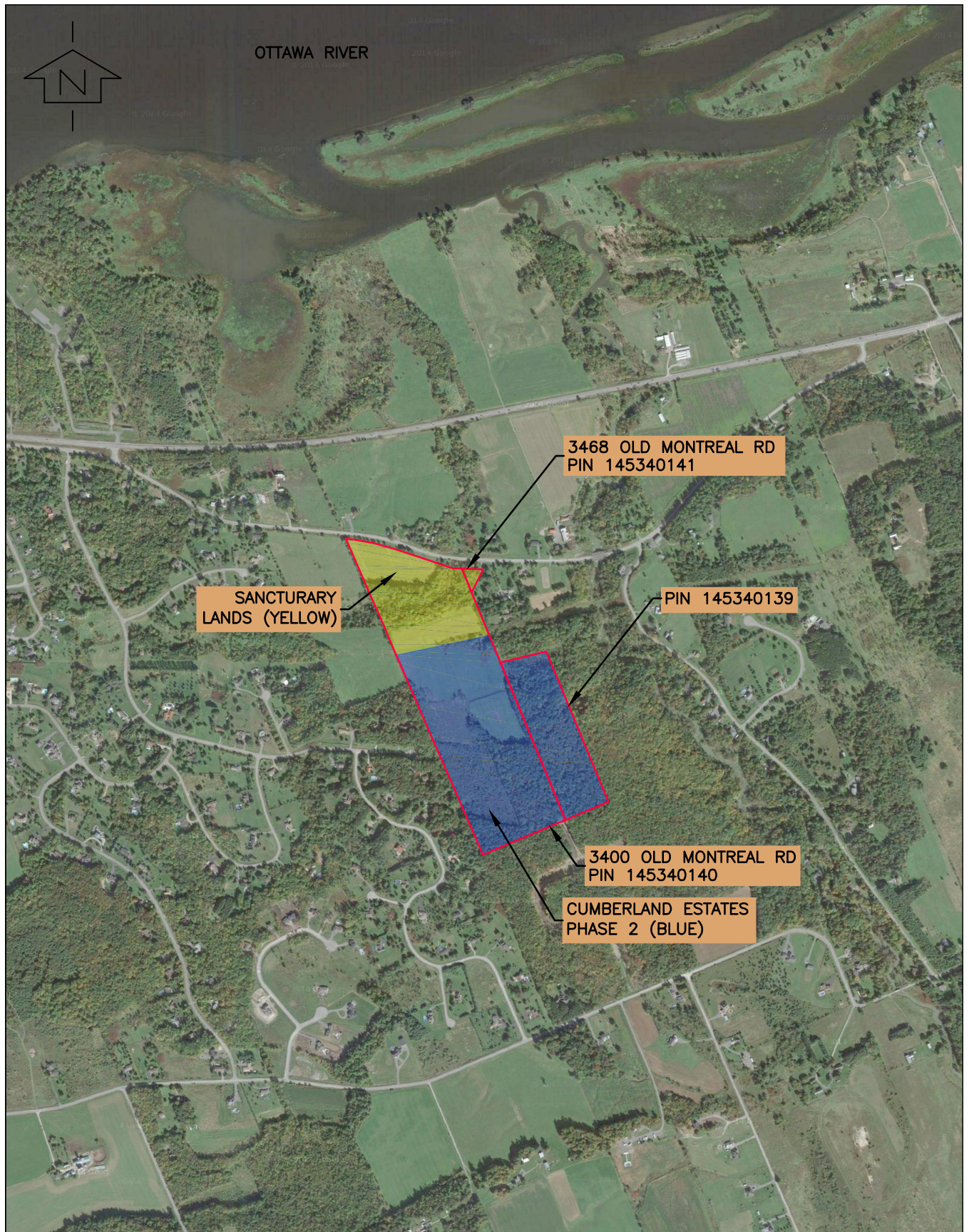
Appendix A – Figures

Figure 1: Site Location Plan

Figure 2: Site Plan



OTTAWA RIVER



exp Services Inc.
100-2650 Queensview Drive
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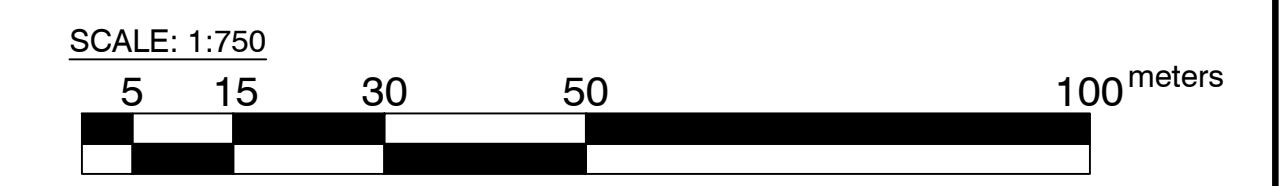
DESIGN	JLF
DRAWN	SAB
DATE	JAN 2017
FILE NO	229886

HUMANICS SANCTUARY
3400, 3468 OLD MONTREAL RD
SITE
LOCATION PLAN

SCALE	1:25,000
SKETCH NO	
FIG 1	

SKETCH SHOWING
PART OF LOT 7
CONCESSION 1 (OLD SURVEY)
GEOGRAPHIC TOWNSHIP OF CUMBERLAND
Now CITY OF OTTAWA

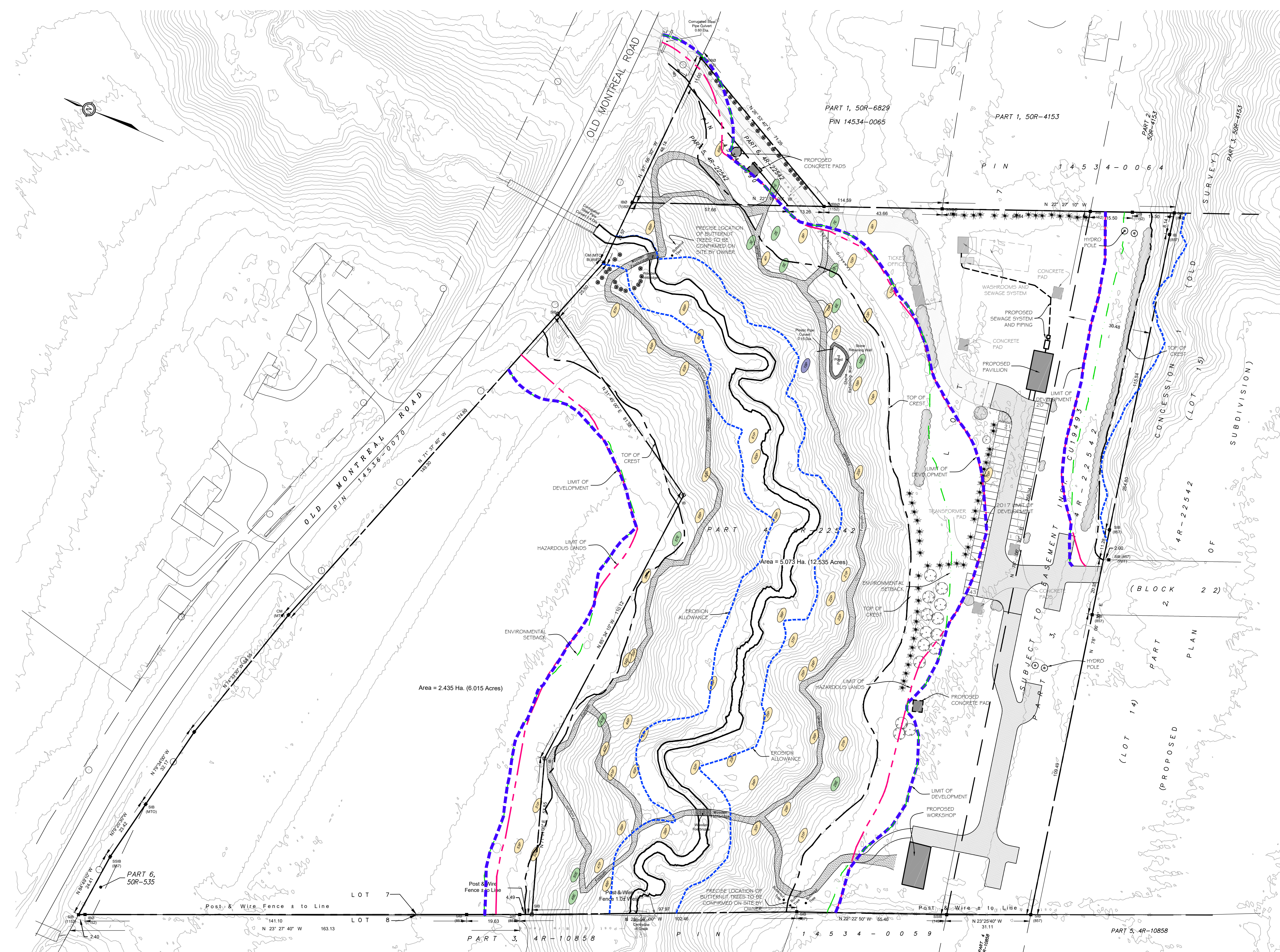
3400 Old Montreal Rd. - RR1 Zoning		
SITE INFORMATION		
SITE AREA	12.535 acres (50,727 m ²)	
GROSS BUILDING AREA	234.78 m ²	
% OF BUILDING AREA	0.83%	
BUILDING HEIGHT (WORKSHOP)	5.58m	
BUILDING HEIGHT (PAVILLION)	6.30m	
GROSS FLOOR AREA (GFA)		
WORK SHOP	128.25m ²	
PAVILLION	106.53m ²	
	TOTAL	234.78m ²
PARKING		
SCULPTURE PARK	REQ'D	PROP.
WORK SHOP AND PAVILLION	0	0
	0	43



- LEGEND:**
- EXISTING STATUS
 - PROPOSED STATUS
 - MEDITATION AREA
 - LIMIT OF DEVELOPMENT
 - TOP OF CREST
 - ENVIRONMENTAL SETBACK
 - EROSION ALLOWANCE
 - LIMIT OF HAZARDOUS LANDS

- LANDSCAPE LEGEND:**
 (LANDSCAPE INFORMATION PROVIDED BY HUMANICS UNIVERSAL INC.)
- | QTY. | PROPOSED TREES |
|------|---|
| 55 | * BLUE SPRUCE |
| 35 | • CEDAR |
| 1 | ○ WHITE PINE |
| 14 | ⊗ ORCHARD (APPLE, PEAR, PLUM, MULBERRY) |
| | ⊕ PERENNIAL GARDENS |

Holzman Consultants Inc.
 prepared the proposed site
 plan from revision 1 through 14.



NO.	REVISION DESCRIPTION	DATE	BY	APPROV.	NO.	REVISION DESCRIPTION	DATE	BY	APPROV.	NO.	REVISION DESCRIPTION	DATE	BY	APPROV.
7	STATUE LOCATIONS	5/15/2016	SB	BH	14	BUTTERNUT TREE LOCATIONS	5/25/2017	SB	BH					
6	EMERGENCY VEHICLE ACCESS	5/10/2016	SB	BH	13	REVISED BUILDING NAME & BUILDING LOCATION	1/21/2017	SB	BH					
5	REVISED MAIN DRIVEWAY ENTRANCE	4/26/2016	SB	BH	12	REVISED LIMIT OF HAZARDOUS LANDS	12/20/2016	SB	BH	19	ISSUED FOR PHASE 1B SUBMISSION	02/09/22	SAB	BMT
4	REVISED REAR VEHICLE ACCESS ROAD	4/25/2016	SB	BH	11	REVISED LIMIT OF DEVELOPMENT, TOP OF CREST & DRIVEWAY ROUTING	12/7/2016	SB	BH	18	ISSUED FOR PHASE 1A SUBMISSION	17/08/22	SAB	BMT
3	REVISED 3.5m LAYBY AT TEMPLE	4/10/2016	SB	BH	10	REVISED SITE STATISTICS	6/5/2016	SB	BH	17	REVISED PER CITY COMMENTS	26/4/2022	JH	BMT
2	REVISED FOOTPATHS & DEV. LINES	2/3/2016	SB	BH	9	ADDED MEDITATION AREA	5/30/2016	SB	BH	16	ISSUED FOR SITE PLAN AMENDMENT	12/3/2021	AJ	BMT
1	REVISED WITH TOP OF CREST	1/22/2016	SB	BH	8	REMOVAL OF CURBS	5/25/2016	SB	BH	15	WORKSHOP UPDATED (by EXP-)	3/16/2021	SAB	BMT
NO.														

	DESIGNED BY	A.O.	PROJECT	Humanics Sanctuary	PROJ. NO.	N/A
	CHECKED BY	B.H.	TITLE	Proposed Site and Landscape Plan Phase 1B	DATE	MAR. 15/21
	DRAWN BY	S.R.B.				
	APPROVED BY					
(Revision 15)		exp Services Inc. 1-877-588-1991 • 1-813-225-7937 3800 University Blvd., Suite 100 Ottawa, ON K2B 8H6 Canada www.exp.com		• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •		

exp Services Inc.


*Humanics Universal Inc.
Humanics Sanctuary-Phase 1B
Site Servicing Report
OTT-00229886-A0
November 25, 2022*

Appendix B – Architectural Plans



CLIMATIC & DESIGN LOAD DATA	
Ottawa (City Hall), Ontario	
ROOF LOADING	KPA (psf)
GROUND SNOW LOAD Ss	2.4 (50.13 psf)
RAIN LOAD Sr	0.4 (8.35 psf)
SNOW LOAD FACTOR Cb	0.55
ROOF DESIGN SNOW LOAD	1.72 (35.92 psf)
ROOF & CEILING DESIGN DEAD LOAD	0.57 (12.00 psf)
FLOOR LOADING	
GROUND & SECOND FLOOR	1.92 (40.00 psf)
FLOOR/CEILING DESIGN DEAD LOAD	0.72 (15.00 psf)
WIND LOADING	
1/50 WIND PRESSURE	0.41 (8.56 psf)
1/10 WIND PRESSURE	0.32 (6.68 psf)
TEMPERATURE	
DEGREE DAYS BELOW 18°C	4440
SOIL	
ASSUMED ALLOWABLE BEARING PRESSURE AT FOOTING FOUNDING ELEVATION(S)	75 (1566 psf)
ROCK	500 (10,443 psf)
FREEZING INDEX	N/A
ELEVATION	70

THE DESIGN DEAD LOADS SPECIFIED ABOVE ARE BASED ON THE DRAWINGS AND MATERIALS EITHER SPECIFIED OR ASSUMED. WHERE DIFFERENT OR HEAVIER MATERIALS ARE PROPOSED THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO CONSTRUCTION OF ANY LOAD-BEARING ELEMENTS THAT MAY BE ADVERSELY AFFECTED.




Page Numbering Legend

L = Landscape 100 series: plans
 A = Architectural 200 series: elevations
 S = Structural 300 series: sections
 M = Mechanical 400 series: large scale plans
 P = Plumbing 500 series: details
 E = Electrical 600 series: schedules

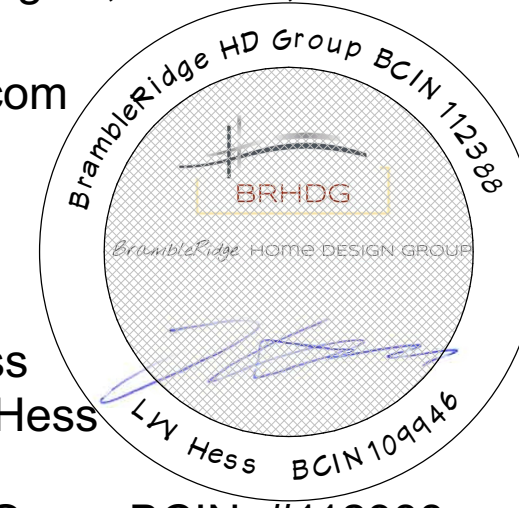
REVISION TABLE			
NUMBER	DATE	REVISED BY	DESCRIPTION

DRAWINGS PROVIDED BY:



BrambleRidge HOME DESIGN GROUP

11 James Street, Seguin, Ontario, P2A 0B6
 705-704-9393
 Email: les@brhdg.com



Drawn by: Les Hess
 Reviewed by: Les Hess
 BCIN: #109946
 BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road,
Ottawa, Ontario

SHEET TITLE:

Overview

NOTES:

- The copyright for this drawing is held by BrambleRidge Home Design Group
- The builder is responsible to verify dimensions and notify BrambleRidge Home Design Group of any discrepancies.
- All work is to be completed in accordance with the Ontario Building Code and all applicable local bylaws.

LAYOUT PAGE TABLE			
NUMBER	TITLE	DESCRIPTION	COMMENTS
1	OVERVIEW		
2	SITE PLAN		
3	ALL FLOOR PLANS		
4	ALL ELEVATIONS		
5	SECTIONS S1 & S2		
6	DETAILS		
7	PLUMBING		
8	ELECTRICAL		

FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

A101

Zoning Requirements	o1 [836r]/RR1
Front yard offset	7.5m 15m
Interior side yard offset	7.5m 3m
Exterior Side Yard	7.5m 15m
Rear yard offset	7.5m 15m
Max. Building Height	11m 11m
Maximum Lot Coverage	20% No Max.
Lot Area Min	N/A 8000m ²
Road Frontage	N/A 45m

AREA CALCULATIONS (SQUARE FEET)			
EXISTING (PRIOR TO CONSTRUCTION)	PROPOSED:		
Main Cottage	781.0	Main House A	781.0
Garage	350.0	Muskoke Room	350.0
TOTAL*	1131.0	TOTAL*	1131.0
TOTAL PROPOSED COVERAGE	1131.0		
TOTAL PROPOSED COVERAGE W/ 20% HIGH WATER	1131.0		
TOTAL LOT AREA	13503.0		
LOT AREA W/ 20% HIGH WATER	13503.0		
ALLOWABLE COVERAGE (10%)	1350.3		
PROPOSED LOT COVERAGE	8%		

Page Numbering Legend

L = Landscape	100 series: plans
A = Architectural	200 series: elevations
S = Structural	300 series: sections
M = Mechanical	400 series: large scale plans
P = Plumbing	500 series: details
E = Electrical	600 series: schedules

REVISION TABLE		
NUMBER	DATE	REVISION

DRAWINGS PROVIDED BY:



BRHDG
BrambleRidge HOME DESIGN GROUP

11 James Street, Seguin, Ontario, P2A 0B6
705-704-9393
Email: les@brhdg.com



Drawn by: Les Hess
Reviewed by: Les Hess
BCIN: #109946
BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road, Ottawa, Ontario

SHEET TITLE:

Site Plan

- NOTES:
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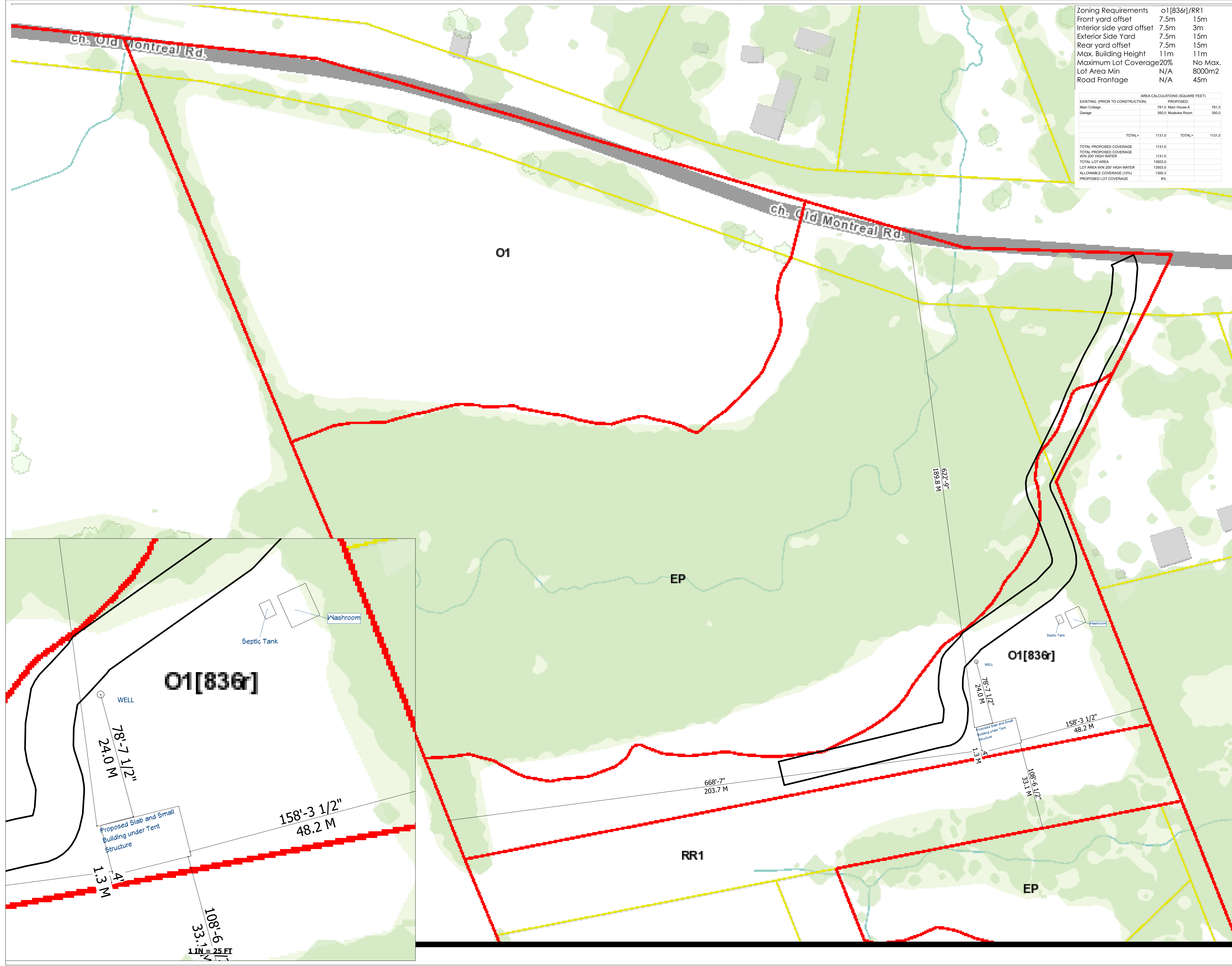
FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE: **1 IN = 50 FT**

Drawing Sheet Size: ARCH D (24" x 36")

A102



- L = Landscape 100 series: plans
- A = Architectural 200 series: elevations
- S = Structural 300 series: sections
- M = Mechanical 400 series: large scale plans
- P = Plumbing 500 series: details
- E = Electrical 600 series: schedules

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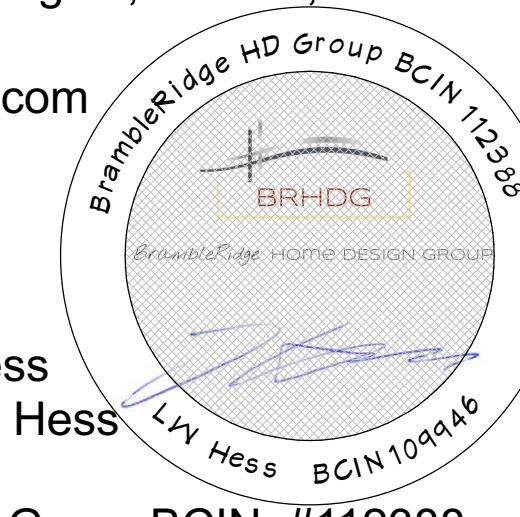
DRAWINGS PROVIDED BY:



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11 James Street, Seguin, Ontario, P2A 0B6
705-704-9393

Email: les@brhdg.com



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Reviewed by: Les Hess
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BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road,
Ottawa, Ontario

SHEET TITLE:

All Floor Plans

NOTES:

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FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

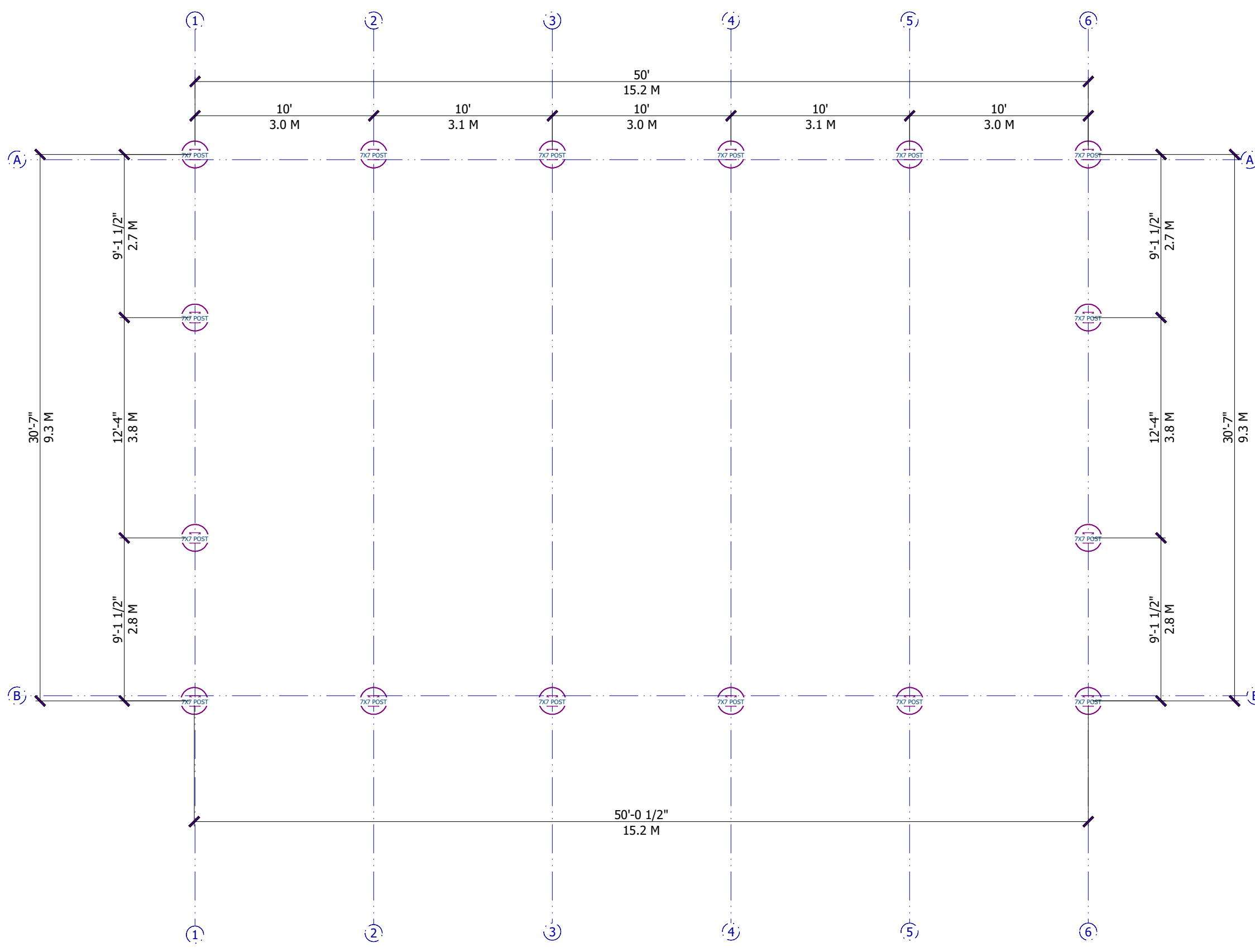
A103

Header and Trimmer Joists around Openings

9.23.9.5. Header joists
(1) Header joists around floor openings shall be doubled when they exceed 1.2 m in length.
(2) The size of header joists exceeding 3.2 m in length shall be determined by calculations.

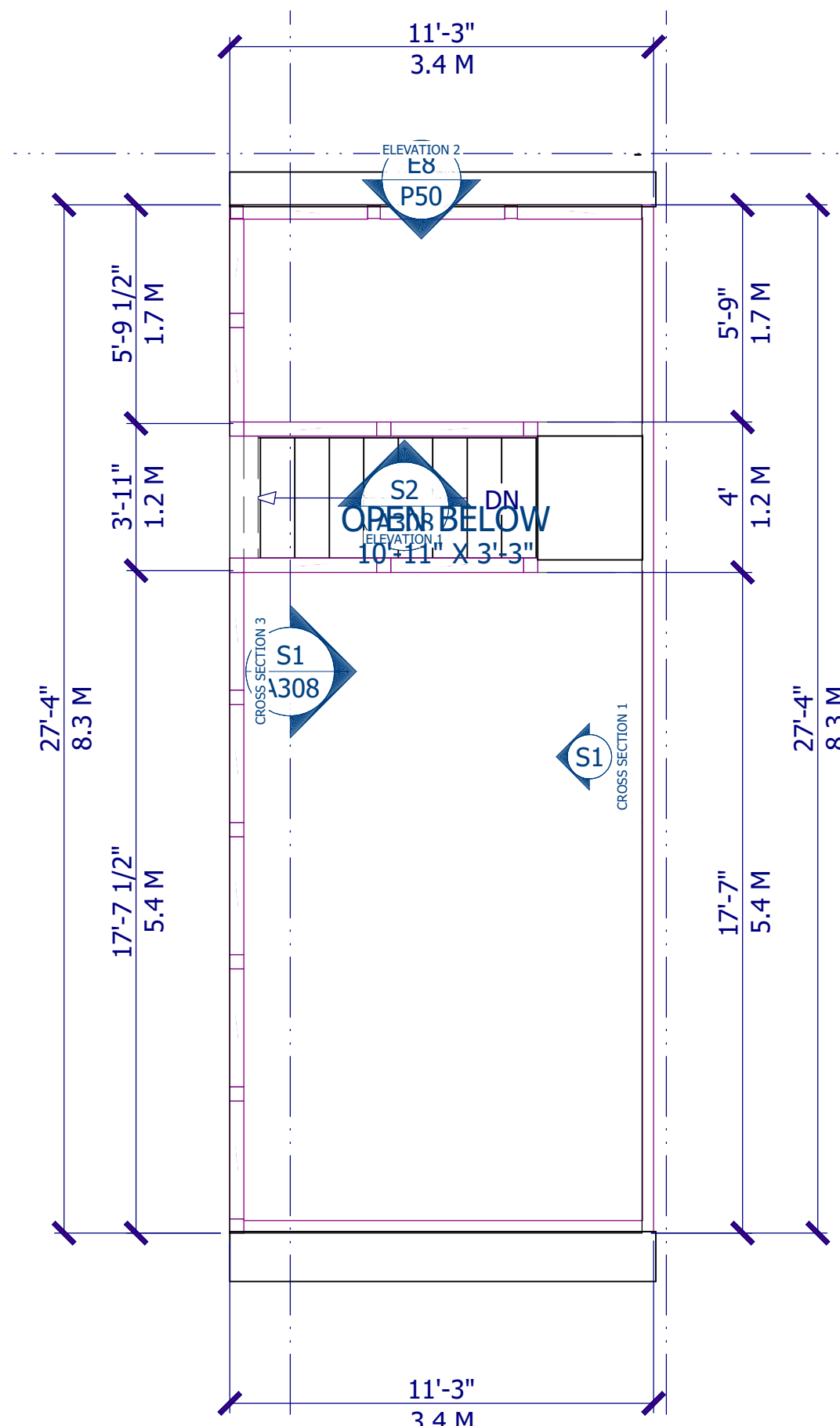
9.23.9.6. Trimmer joists
(1) Trimmer joists around floor openings shall be doubled when the length of the header joist exceeds 800 mm.
(2) When the header joist exceeds 2 m in length, the size of the trimmer joists shall be determined by calculations.

DOOR SCHEDULE												
3D EXTERIOR ELEVATION	NUMBER	LABEL	QTY	FLOOR	SIZE	WIDTH	HEIGHT	R/O	DESCRIPTION	HEADER	THICKNESS	COMMENTS
	D01	2668	1	1	2668 L IN	30"	80"	32"X82 1/2"	HINGED-DOOR P01	2X6X35" (2)	1 3/8"	
	D02	3068	1	1	3068 L EX	36"	80"	38"X83"	EXT. HINGED-DOOR E21	2X6X41" (2)	1 3/4"	
	D03	3068	1	1	3068 L IN	36"	80"	38"X82 1/2"	HINGED-DOOR P01	2X6X41" (2)	1 3/8"	
	D04	3068	1	1	3068 R EX	36"	80"	38"X83"	EXT. HINGED-DOOR E21	2X6X41" (2)	1 3/4"	

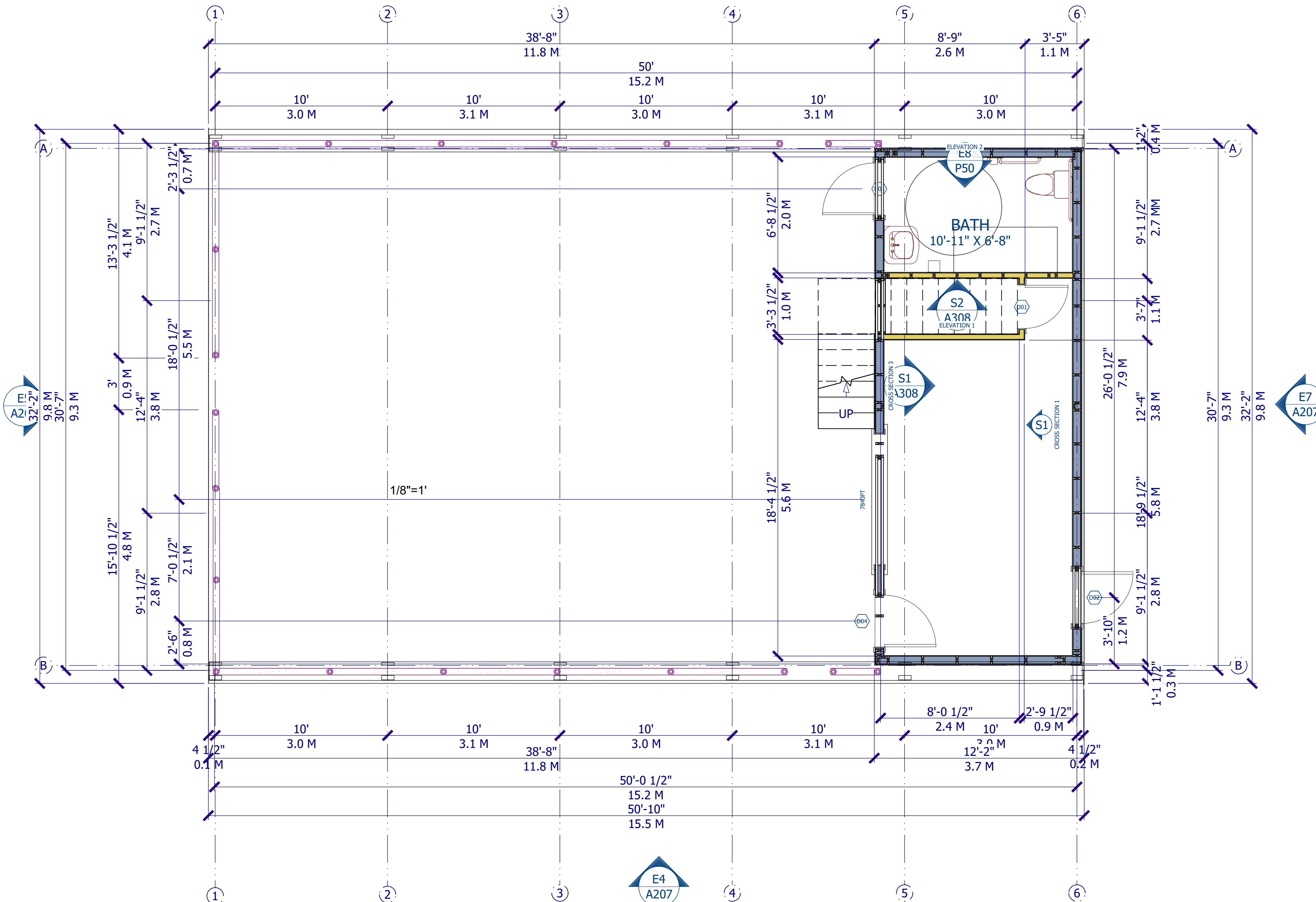


FOUNDATION PLAN

FOUNDATION PLAN
SCALE 1/8 IN= 1FT



ROOF PLAN
SCALE 1/4 IN= 1FT



MAIN FLOOR PLAN
SCALE 1/4 IN= 1 FT

- L = Landscape 100 series: plans
- A = Architectural 200 series: elevations
- S = Structural 300 series: sections
- M = Mechanical 400 series: large scale plans
- P = Plumbing 500 series: details
- E = Electrical 600 series: schedules

REVISION TABLE			
NUMBER	DATE	REVISED BY	DESCRIPTION

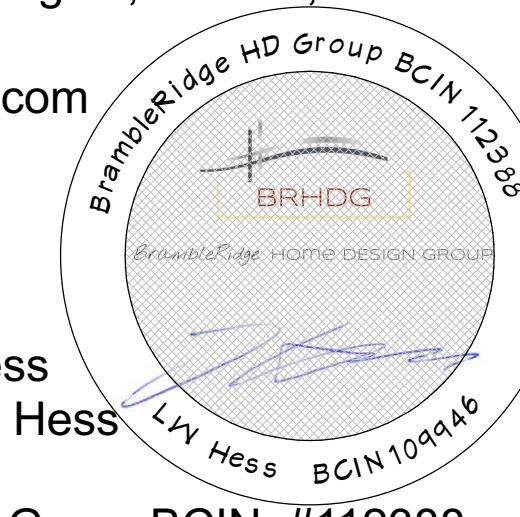
DRAWINGS PROVIDED BY:



BrambleRidge HOME DESIGN GROUP

11 James Street, Seguin, Ontario, P2A 0B6
705-704-9393

Email: les@brhdg.com



Drawn by: Les Hess
Reviewed by: Les Hess
BCIN: #109946
BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road,
Ottawa, Ontario

SHEET TITLE:

All Elevations

NOTES:

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3	ALL FLOOR PLANS	
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5	SECTIONS S1 & S2	
6	DETAILS	
7	PLUMBING	
8	ELECTRICAL	

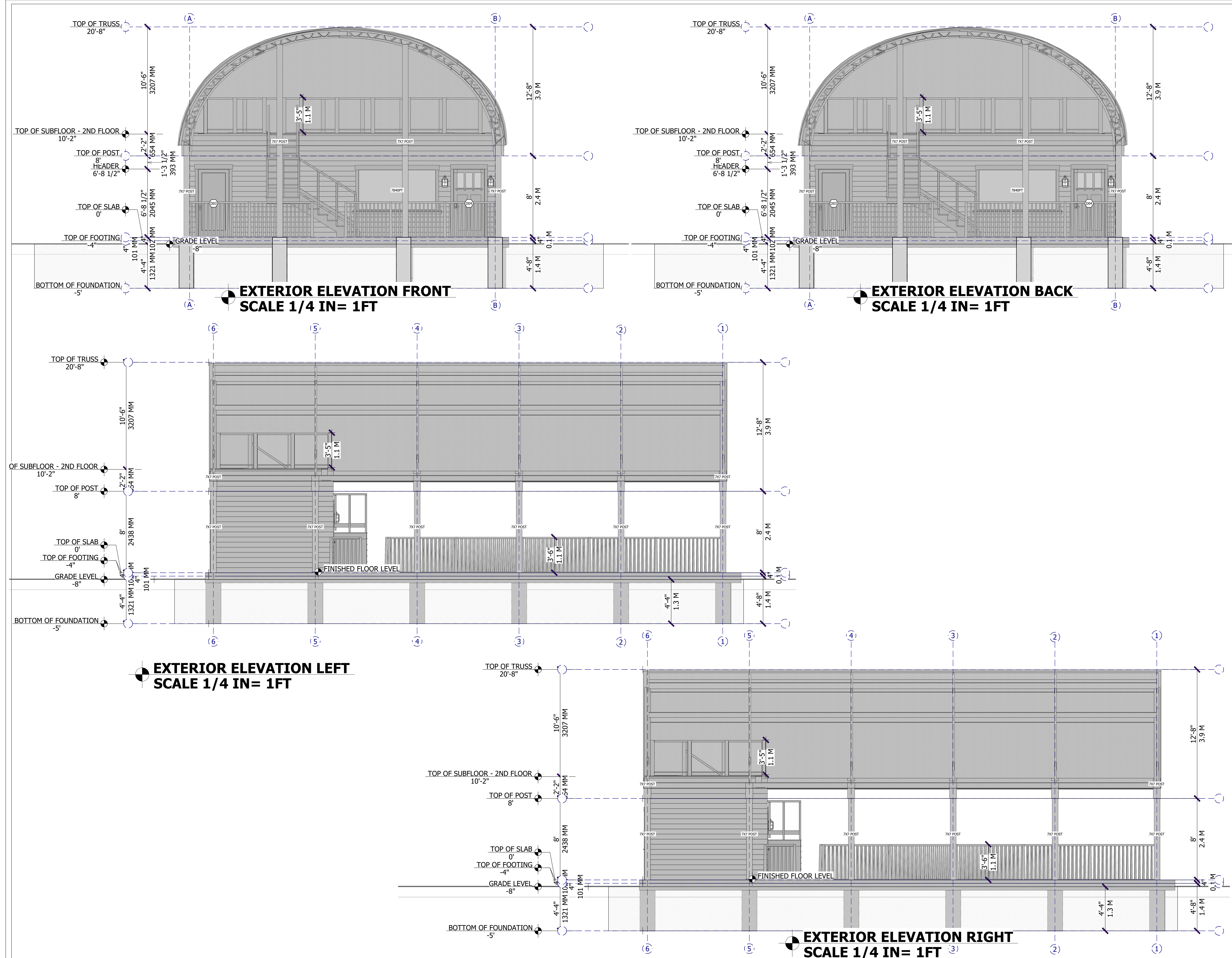
FILE NUMBER: BRHDG-21.049

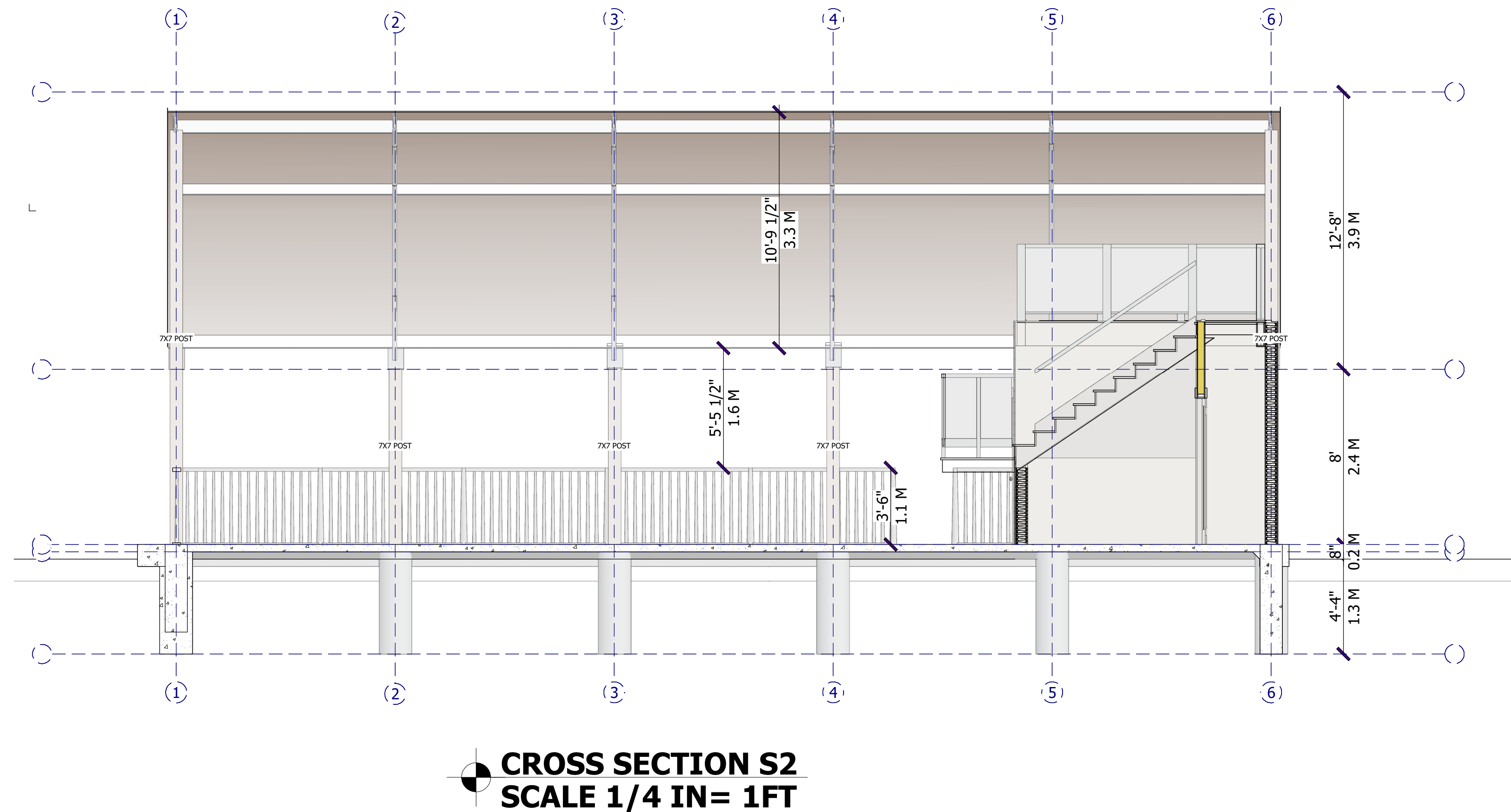
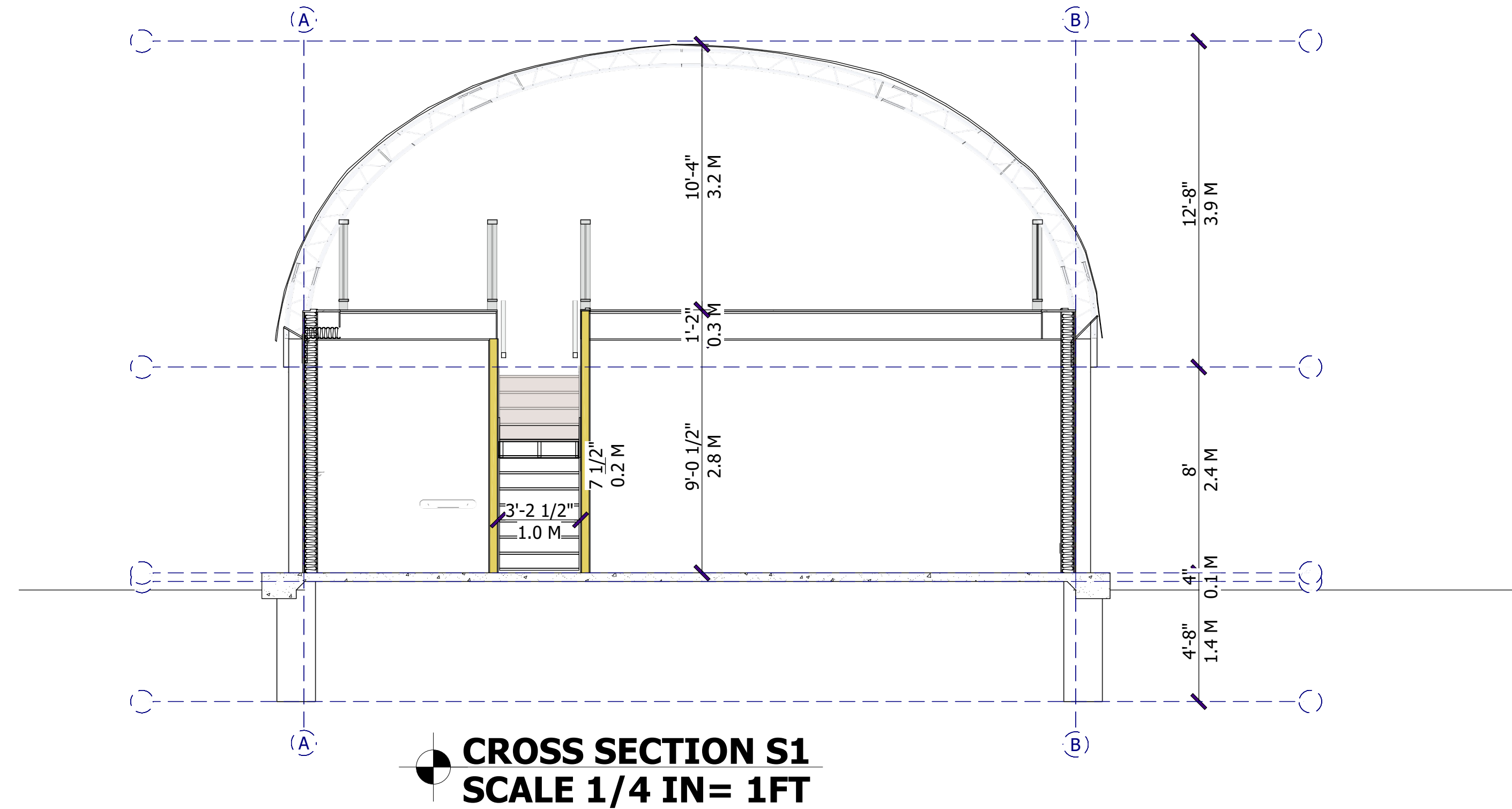
DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

A104

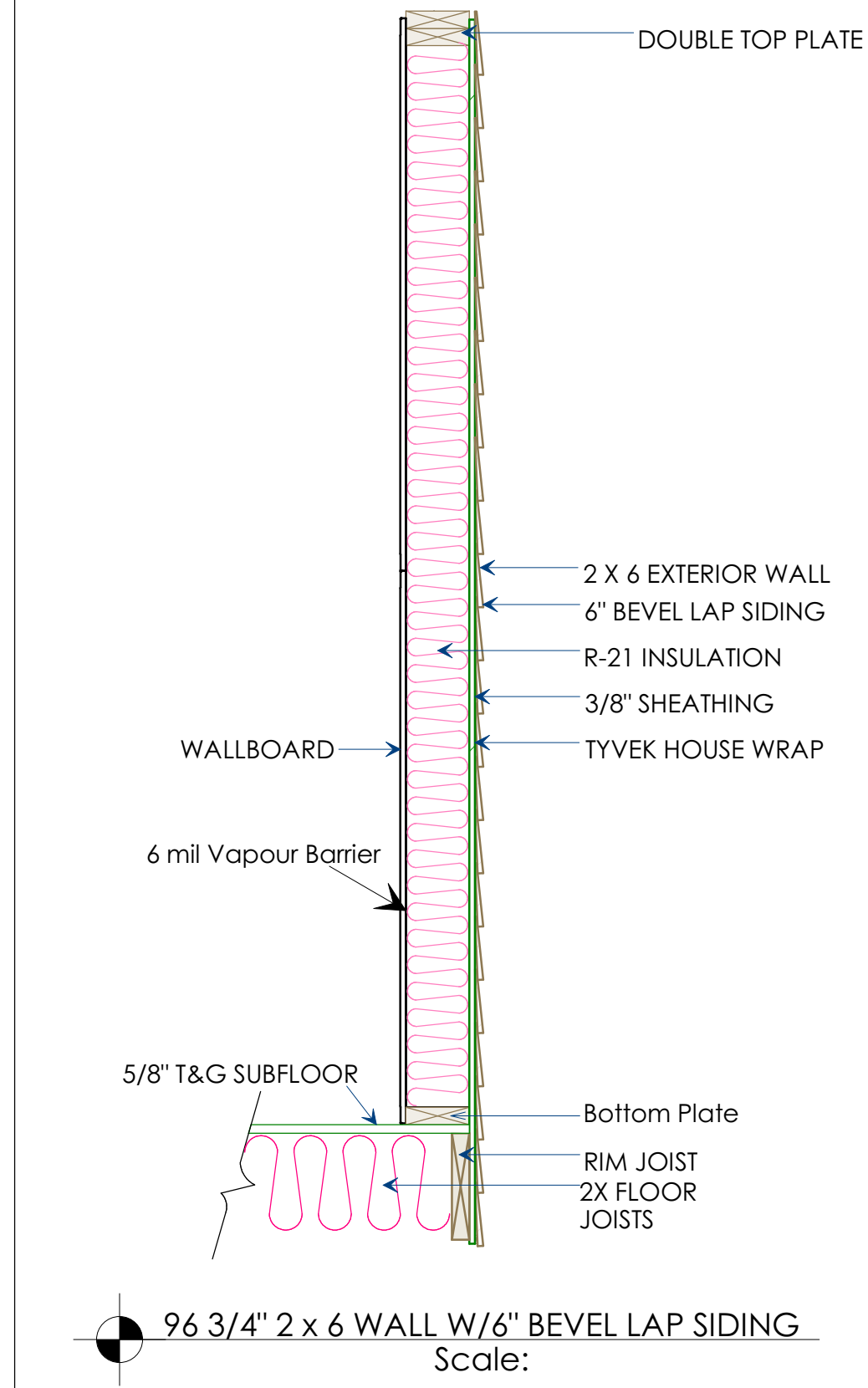
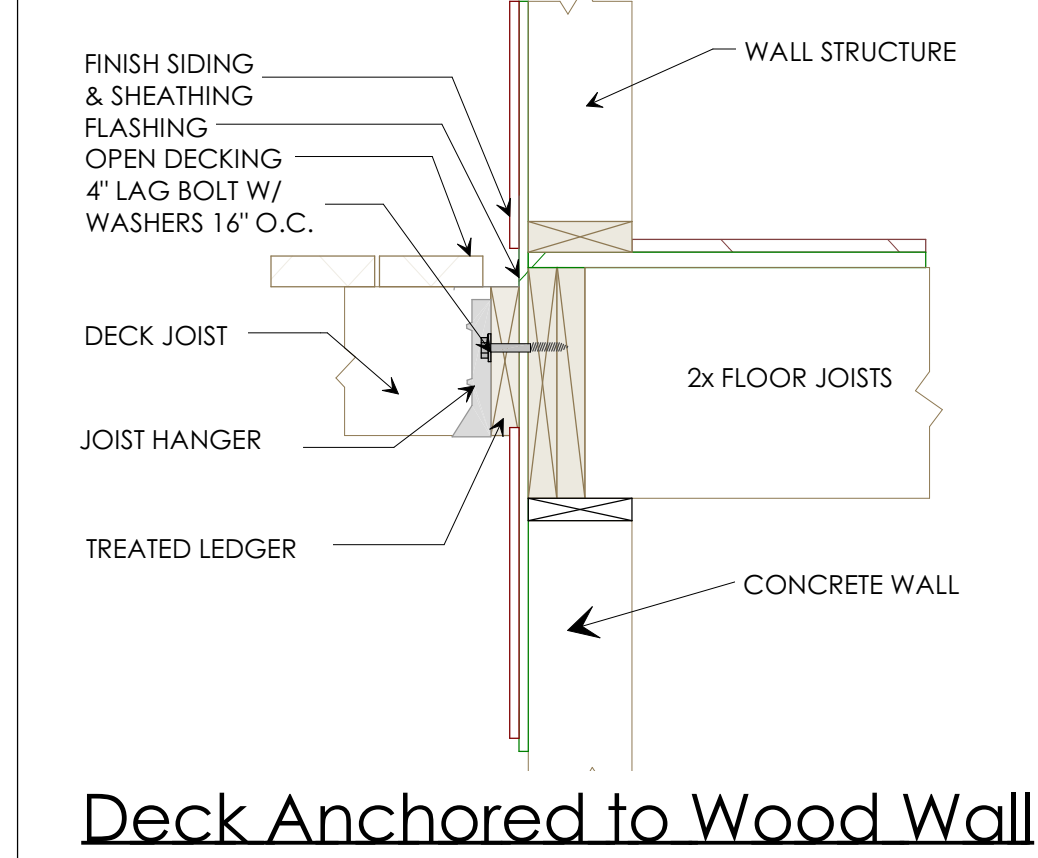
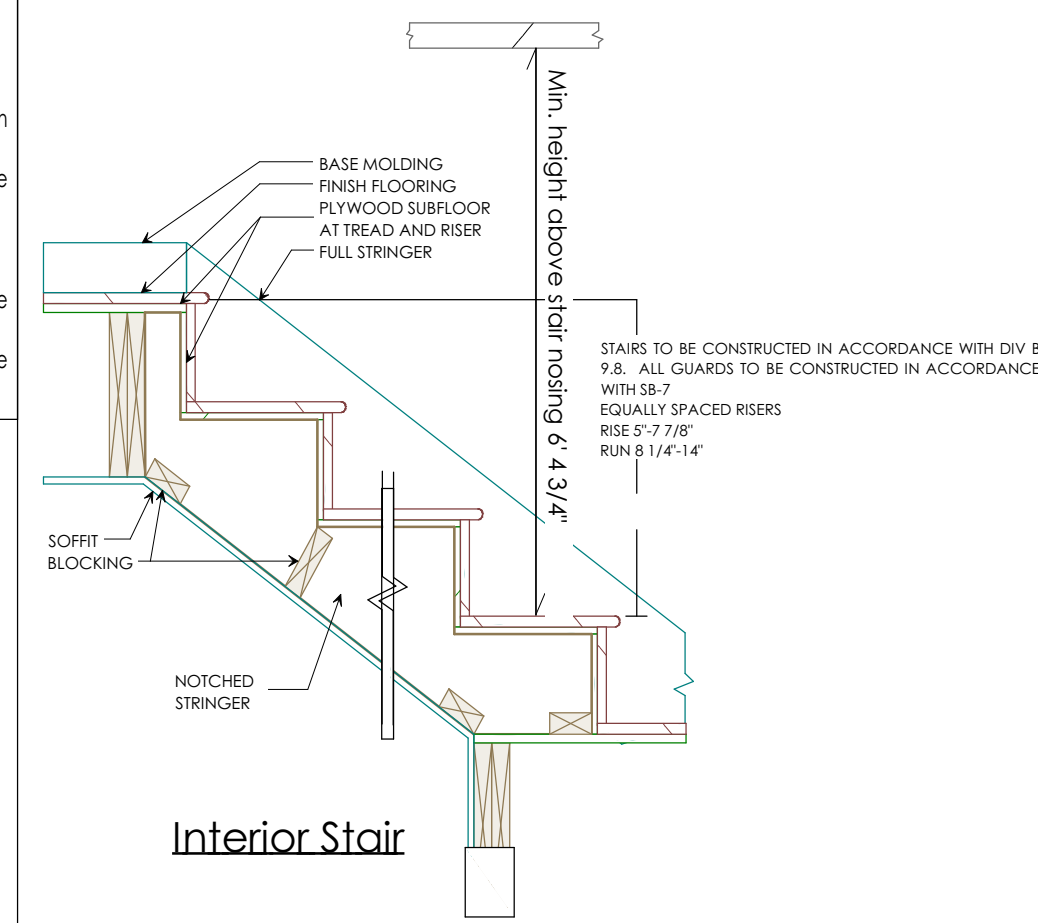




Header and Trimmer Joists around Openings

9.23.9.5. Header joists
 (1) Header joists around floor openings shall be doubled when they exceed 1.2 m in length.
 (2) The size of header joists exceeding 3.2 m in length shall be determined by calculations.

9.23.9.6. Trimmer joists
 (1) Trimmer joists around floor openings shall be doubled when the length of the header joist exceeds 800 mm.
 (2) When the header joist exceeds 2 m in length, the size of the trimmer joists shall be determined by calculations.



DOOR AND WINDOW NOTES:

EVERY WINDOW WITH SHALL HAVE FINISHED SILL HEIGHT NLT 19" ABOVE THE FINISH FLOOR HEIGHT WHERE THE FINISHED FLOOR TO GRADE HEIGHT EXCEEDS 24"

DOORS BETWEEN GARAGE AND LIVING AREA SHALL BE TIGHT FITTING DOORS NOT OPENING INTO A BEDROOM AREA AND BE EQUIPED WITH A SELF CLOSING DEVICE.

EXTERIOR EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

ALL DOORS AND WINDOWS TO HAVE FLASHING INSTALLED ON THE TOP EDGE. SIDES OF DOORS AND WINDOWS ARE TO BE ADEQUATELY CAULKED

Page Numbering Legend

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- M = Mechanical 400 series: large scale plans
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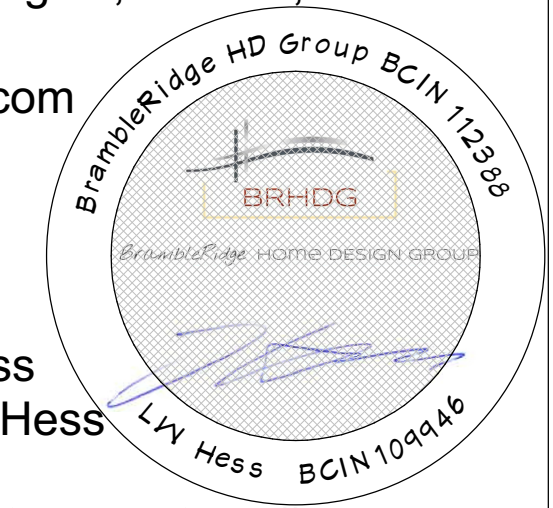
REVISION TABLE		
NUMBER	DATE	REVISION DESCRIPTION

DRAWINGS PROVIDED BY:



BrambleRidge HOME DESIGN GROUP

11 James Street, Seguin, Ontario, P2A 0B6
 705-704-9393
 Email: les@brhdg.com



Drawn by: Les Hess
 Reviewed by: Les Hess
 BCIN: #109946
 BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road,
 Ottawa, Ontario

SHEET TITLE:

Sections S1 & S2

NOTES:

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8	ELECTRICAL	

FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

A305

Page Numbering Legend

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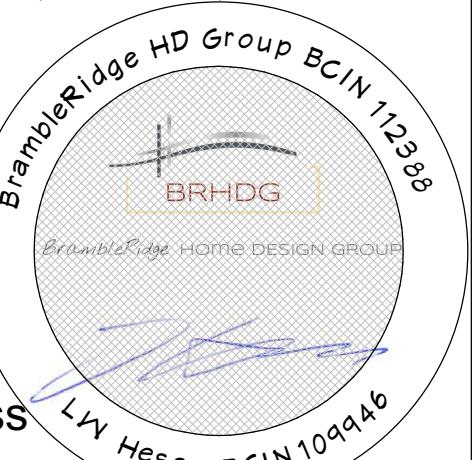
REVISION TABLE			
NUMBER	DATE	REVISED BY	DESCRIPTION

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Engineered Slab and Small Building

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3400/3468 Old Montreal Road,
 Ottawa, Ontario

SHEET TITLE:

Details

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FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

A506

Connection Notes
 All connections columns or piers to post and Post to Beams shall be secured using an approved Simpsons Strong Tie or equivalent.

Diameter of Nails for Framing

Item	Column 1 Minimum Length of Nails, mm	Column 2 Minimum Diameter of Nails, mm
1.	57	2.87
2.	62	3.25
3.	76	3.66
4.	82	3.66
5.	101	4.88

Fasteners for Sheathing and Subflooring, mm

Item	Column 1 Element	Column 2 Minimum Length of Fasteners, mm Common or Spiral Nails Screws	Column 3 Ring Thread Nails	Column 4 Roofing Nails	Column 5 Staples	Column 6 Minimum Number or Maximum Spacing of Fasteners
1.	Board lumber 184 mm or less wide	51	45	N/A	51	2 per support
2.	Board lumber more than 184 mm wide	51	45	N/A	51	3 per support
3.	Fibreboard sheathing up to 13 mm thick	N/A	N/A	44	28	150 mm (o.c.) along edges and 300 mm (o.c.) along intermediate supports
4.	gypsum sheathing up to 13 mm thick	N/A	N/A	44	N/A	
5.	Plywood, OSB or waferboard up to 10 mm thick	51	45	N/A	38	
6.	Plywood, OSB or waferboard over 10 mm and up to 20 mm thick	51	45	N/A	51	
7.	Plywood, OSB or waferboard over 20 mm and up to 25 mm thick	57	51	N/A	N/A	

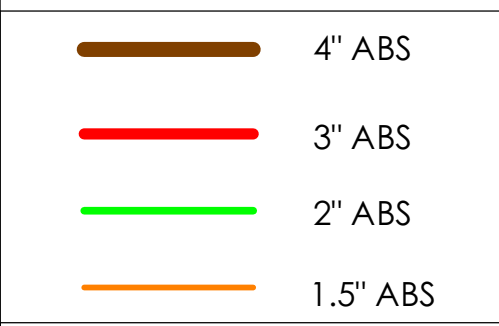
Nailing for Framing

Nailing for Framing
 Forming Part of Sentence 9.23.3.4.(1)

Item	Column 1 Construction Detail	Column 2 Minimum Length of Nails, mm	Column 3 Minimum Number or Maximum Spacing of Nails
1.	floor joist to plate – toe nail	82	2
2.	wood or metal strapping to underside of floor joists	57	2
3.	Cross bridging to joists	57	2 at each end
4.	Double header or trimmer joists	76	300 mm (o.c.)
5.	floor joist to stud (balloon construction)	76	2
6.	Ledger strip to wood beam	82	2 per joist
7.	Joist to joist splice (See also Table 9.23.13.8.)	76	2 at each end
8.	Header joist end nailed to joists along perimeter	101	3
9.	Tail joist to adjacent header joist	82	5
10.	(end nailed) around openings="http://thehandyforce.com/windows/" title ="Window installer in Toronto">openings	101	3
10.	Each header joist to adjacent trimmer joist	82	5
10.	(end nailed) around openings="http://thehandyforce.com/windows/" title ="Window installer in Toronto">openings	101	3
11.	stud to wall plate (each end) toe nail or end nail	62	4
12.	Doubled studs at openings="http://thehandyforce.com/windows/" title ="Window installer in Toronto">openings, or studs at walls or wall intersections and corners	76	750 mm (o.c.)
13.	Doubled top wall plates	76	600 mm (o.c.)
14.	Bottom wall plate or sole plate to joists or blocking (exterior walls) (1)	82	400 mm (o.c.)
15.	interior walls to framing or subflooring="http://thehandyforce.com/flooring/" title ="Handyman flooring install Toronto">flooring	82	600 mm (o.c.)
16.	Horizontal member over openings="http://thehandyforce.com/windows/" title ="Window installer in Toronto">openings in non-loadbearing walls – each end	82	2
17.	Lintels to studs	82	2 at each end
18.	ceiling joist to plate – toe nail each end	82	2
19.	Roof rafter, roof truss or roof joist to plate – toe nail	82	3
20.	Rafter plate to each ceiling joist	101	2
21.	Rafter to joist (with ridge supported)	76	3
22.	Rafter to joist (with ridge unsupported)	76	See Table 9.23.13.8.
23.	Gusset plate to each rafter at peak	57	4
24.	Rafter to ridge board – toe nail – end nail	82	3
25.	Collar tie to rafter – each end	76	3
26.	Collar tie lateral support to each collar tie	57	2
27.	Jack rafter to hip or valley rafter	82	2
28.	Roof strut to rafter	76	3
29.	Roof strut to loadbearing wall – toe nail	82	2
30.	38 mm x 140 mm or less plank decking to support	82	2
31.	Plank decking wider than 38 mm x 140 mm to support	82	3
32.	38 mm edge laid plank decking to support (toe nail)	76	1
33.	38 mm edge laid plank to each other	76	450 mm (o.c.)

Notes to Table 9.23.3.4.:
 (1) See Sentence 9.23.3.4.(2).
 (2) Where the bottom wall plate or sole plate of an exterior wall is not nailed to joists or blocking in conformance with Table 9.23.3.4., the exterior wall may be fastened to the floor framing by,
 (a) having plywood, OSB or waferboard sheathing extend down over floor framing and fastened to the floor framing by nails or staples conforming to Article 9.23.3.5., or
 (b) tying the wall framing to the floor framing by 50 mm wide galvanized-metal strips,
 (i) not less than 0.41 mm in thickness,
 (ii) spaced not more than 1.2 m apart, and
 (iii) fastened at each end with at least two 63 mm nails.

Description	# of units per fixture	# of Fixtures	Fixture Units
Bathroom Group		6	
Toilet		4	
Wash Basin (Lavatory)		1	
Bathtub or Shower		1.5	
Bidet		1	
Kitchen Sink		1.5	
Bar Sink		1.5	
Washing Machine		1.5	
Dishwasher		1.5	
Total Fixtures			



ALL WORK TO BE PERFORMED BY A LICENSED PLUMBER.

UNIVERSAL WASHROOM NOTES

TOILET:
THE TOILET IS TO HAVE A HAND OPERATED FLUSHING DEVICE THAT IS EASILY ACCESSIBLE TO A WHEELCHAIR USER. THE FLUSHING DEVICE IS TO BE OPERATED WITH A CLOSED FIST AND SHALL NOT REQUIRE A FORCE OF MORE THAN 22.2 N TO OPERATE.

LAVATORY:
INSULATE PIPES WHERE TEMPERATURES EXCEED 43 DEGREES C. SINK FAUCETS SHALL BE OPERATED BY LEVER TYPE HANDLES THAT ARE NOT SPRING LOADED. HANDLES SHALL BE LOCATED NO MORE THAN 450mm FROM THE FRONT OF THE BASIN. THE LAVATORY IS TO BE EQUIPPED WITH A SOAP DISPENSER THAT IS OPERABLE WITH ONE HAND.

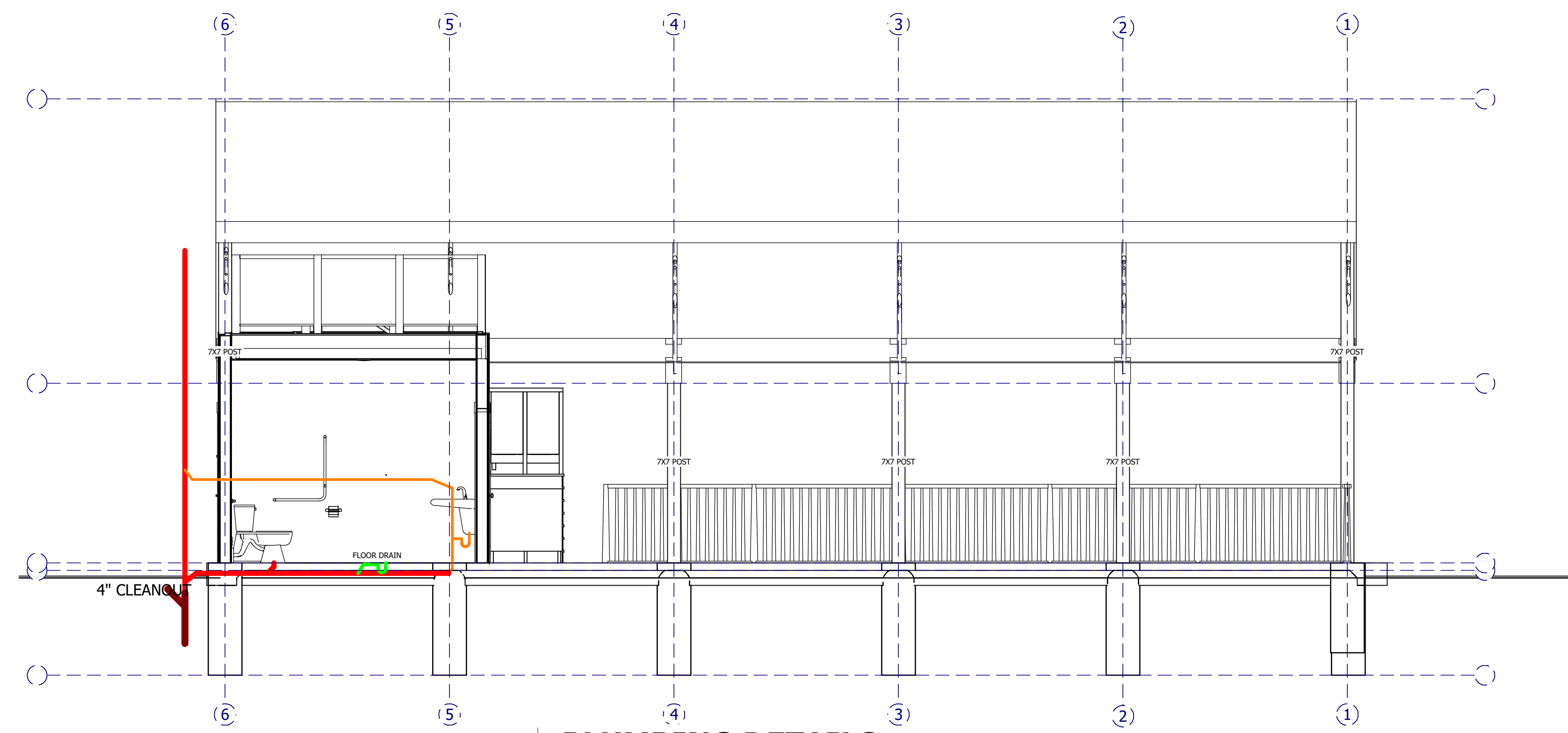
GRAB BARS:
GRAB BARS TO RESIST 1.3 kN APPLIED VERTICALLY OR HORIZONTALLY
GRAB BARS TO BE 35-40mm IN DIAMETER
GRAB BARS TO HAVE 50mm CLEARANCE FROM THE WALL
GRAB BARS ARE TO BE FINISHED SO THAT THE SURFACE IS GRASPABLE
PROVIDE SOLID WOOD BLOCKING IN THE WALL ASSEMBLY TO ACCOMMODATE LOADS

MISCELLANEOUS ITEMS:
A COAT HOOK IS TO BE INSTALLED AND MUST PROJECT A MINIMUM OF 50mm FROM THE WALL.
MOTION SENSOR LIGHTING MUST BE PROVIDED IN A UNIVERSAL WASHROOM

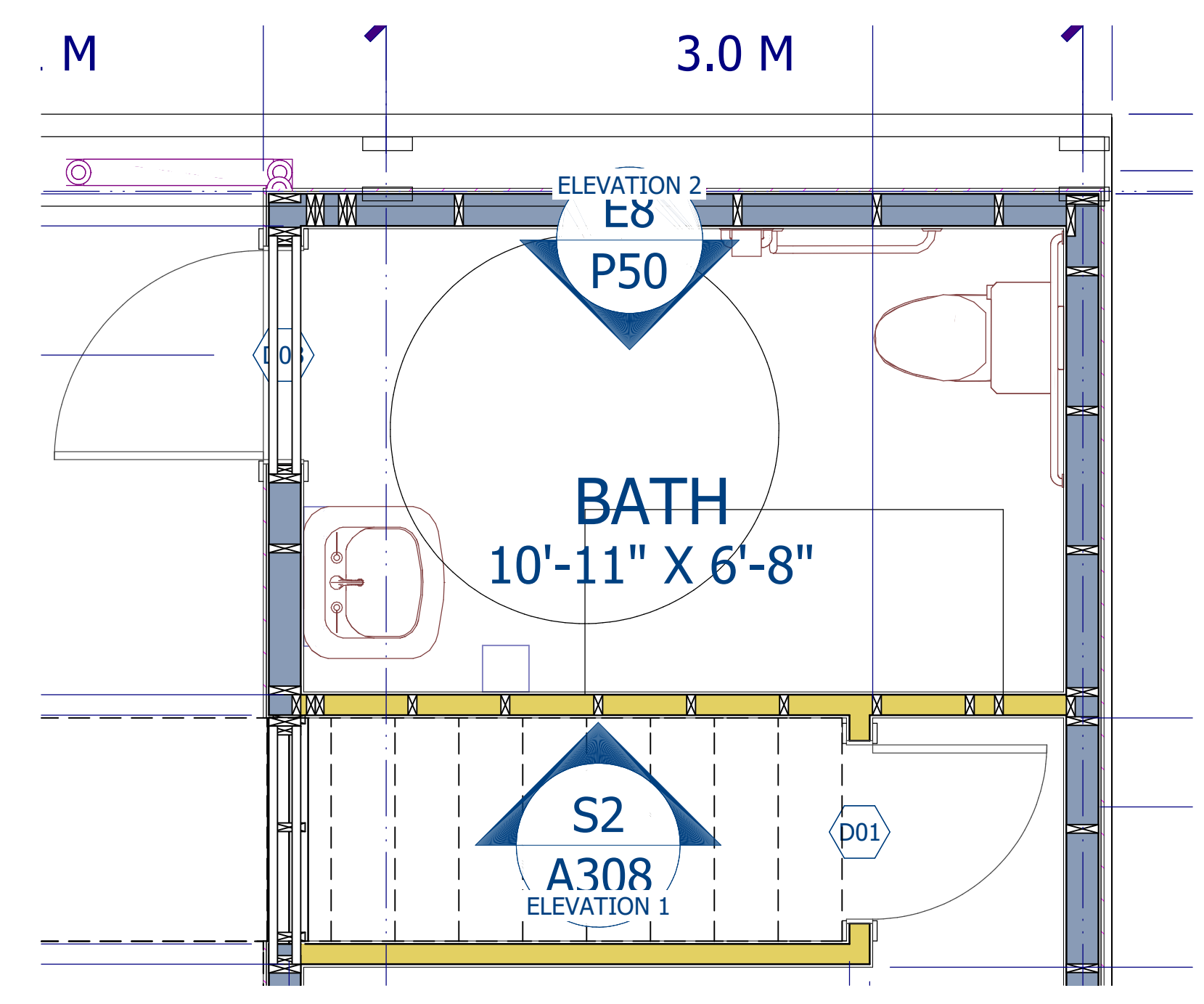
PROVIDE AN AUDIBLE/VISUAL SIGNAL DEVICE INSIDE AND OUTSIDE THE WASHROOM THAT CAN BE ACTIVATED FROM INSIDE THE WASHROOM. PROVIDE A SIGN STATING: "IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY BUTTON AND AUDIBLE/VISUAL SIGNAL WILL ACTIVATE". THE SIGN SHALL BE MOUNTED ABOVE THE DEVICE. LETTERING TO BE 25mm HIGH AND 5mm WIDE.

PROVIDE TACTICAL SIGNS TO INDICATE LOCATION OF BATHROOM. PROVIDE SIGNS IN HALL AND ON BATHROOM DOOR. SIGNS TO INCLUDE INTERNATIONALLY ACCEPTED SYMBOL OF ACCESSIBILITY AND INDICATE THAT THE WASHROOM IS FOR MALE AND FEMALE USE.

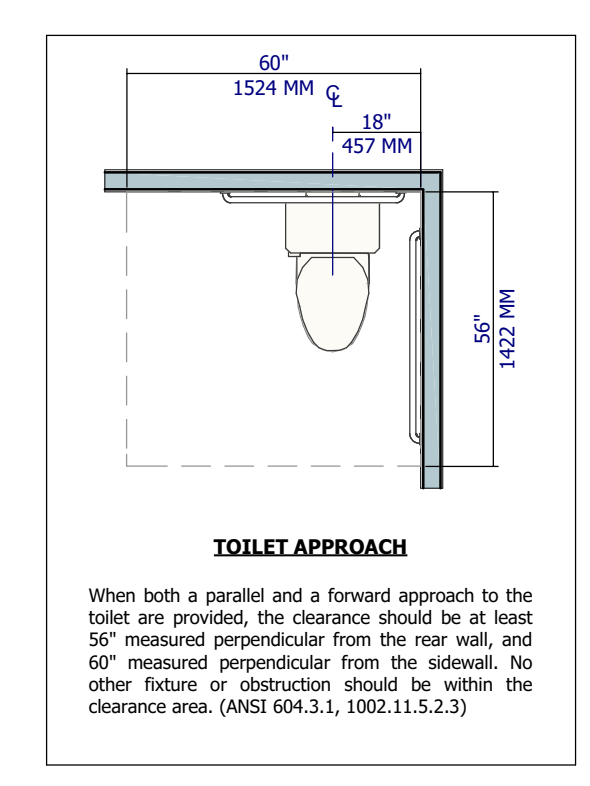
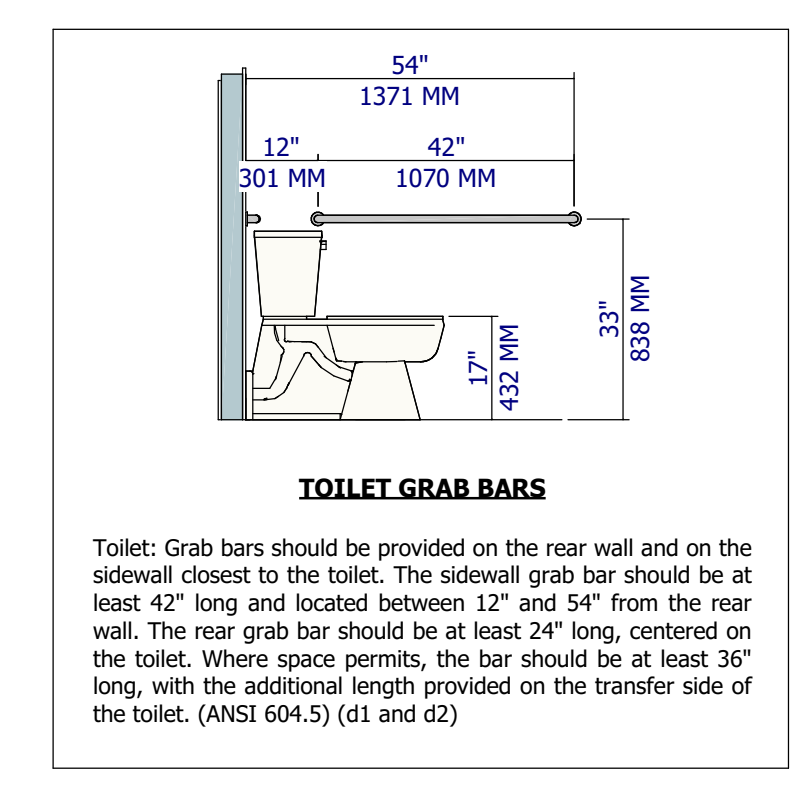
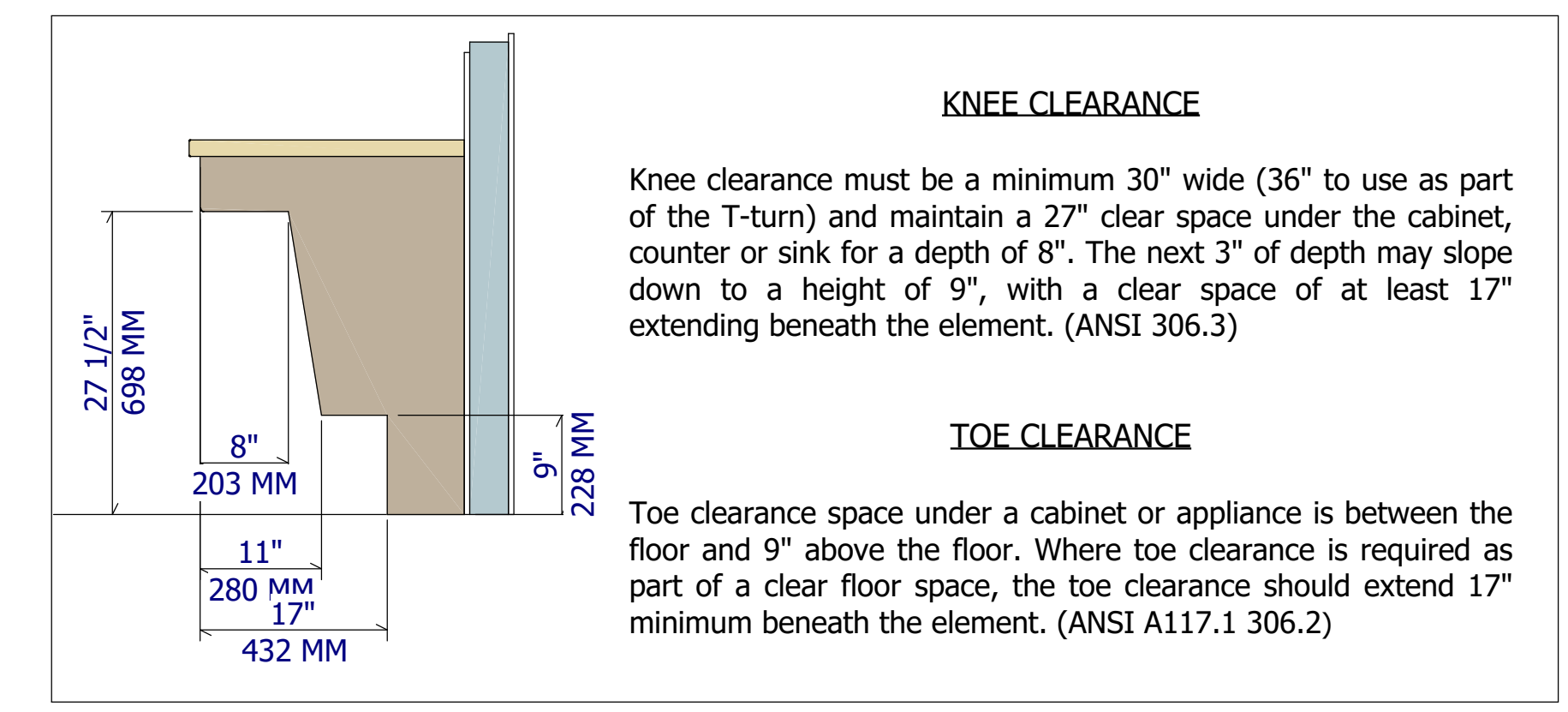
PLUMBING FIXTURES ARE TO BE LOCATED AS SHOWN ON THE PLAN.



PLUMBING DETAILS
SCALE 1/4 IN= 1FT



PLUMBING PLAN
SCALE 1/2 IN= 1FT



Page Numbering Legend

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E = Electrical	600 series: schedules

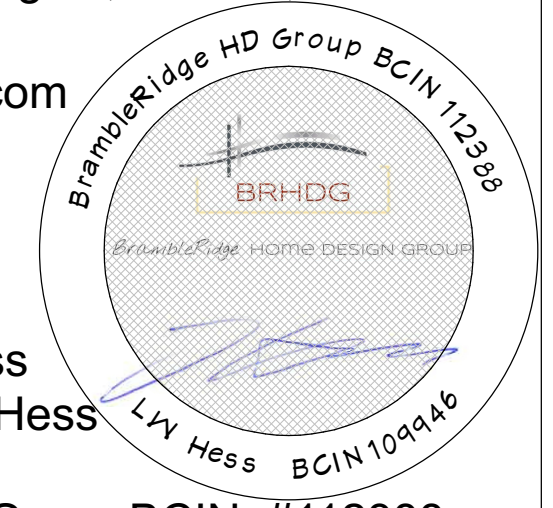
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DRAWINGS PROVIDED BY:



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BCIN: #109946
BrambleRidge HD Group BCIN: #112388

PROJECT DESCRIPTION:

Engineered Slab and Small Building

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Ottawa, Ontario

SHEET TITLE:

Plumbing

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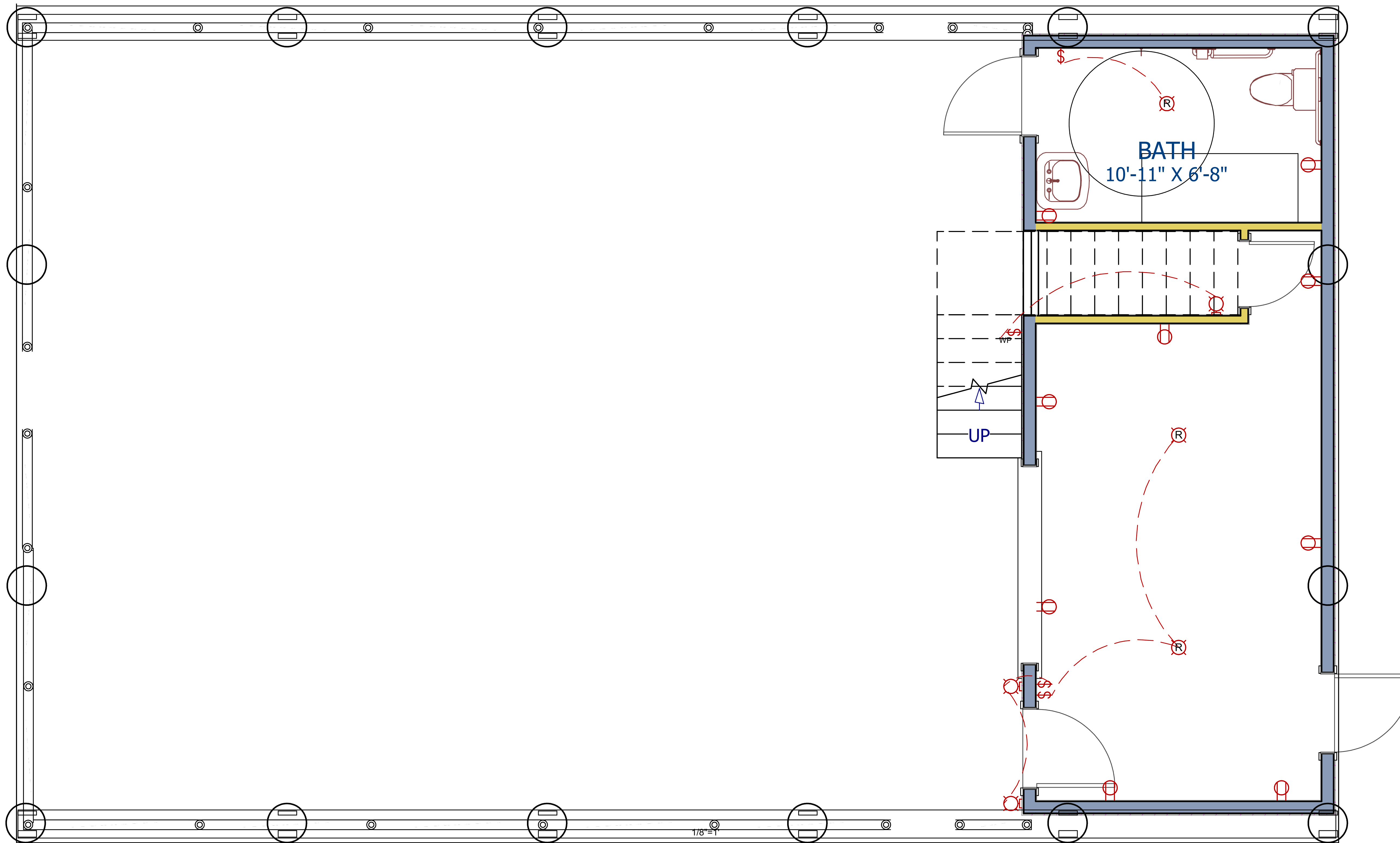
FILE NUMBER: BRHDG-21.049

DATE: December 3, 2021

SCALE:

Drawing Sheet Size: ARCH D (24" x 36")

P507



Page Numbering Legend

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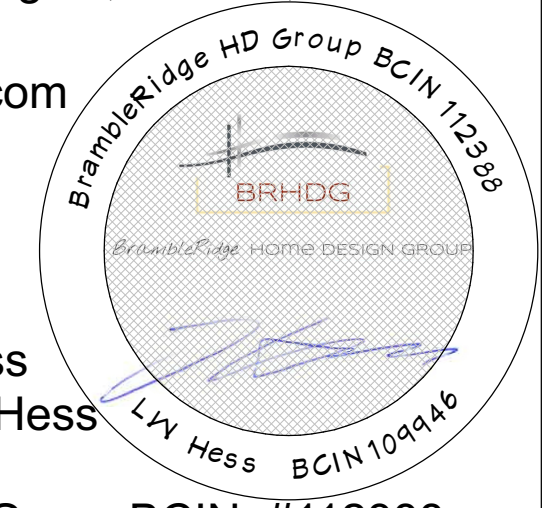
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 BCIN: #109946
 BrambleRidge HD Group BCIN: #112388

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Engineered Slab and Small Building

PROJECT ADDRESS:

3400/3468 Old Montreal Road, Ottawa, Ontario

SHEET TITLE:

Electrical

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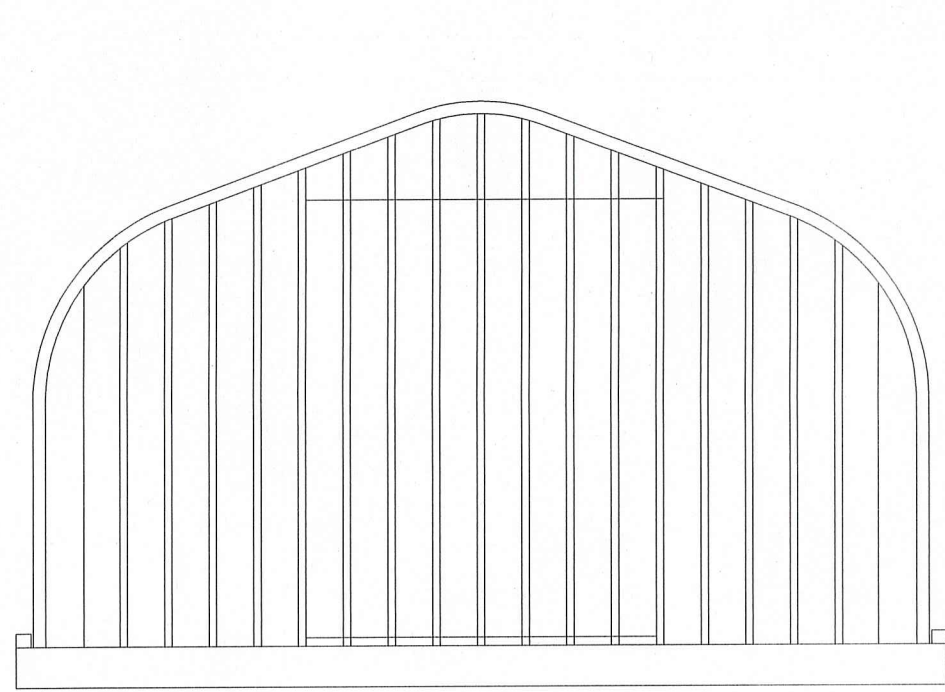
E108

ELECTRICAL PLAN
SCALE 1/2 IN = 1 FT

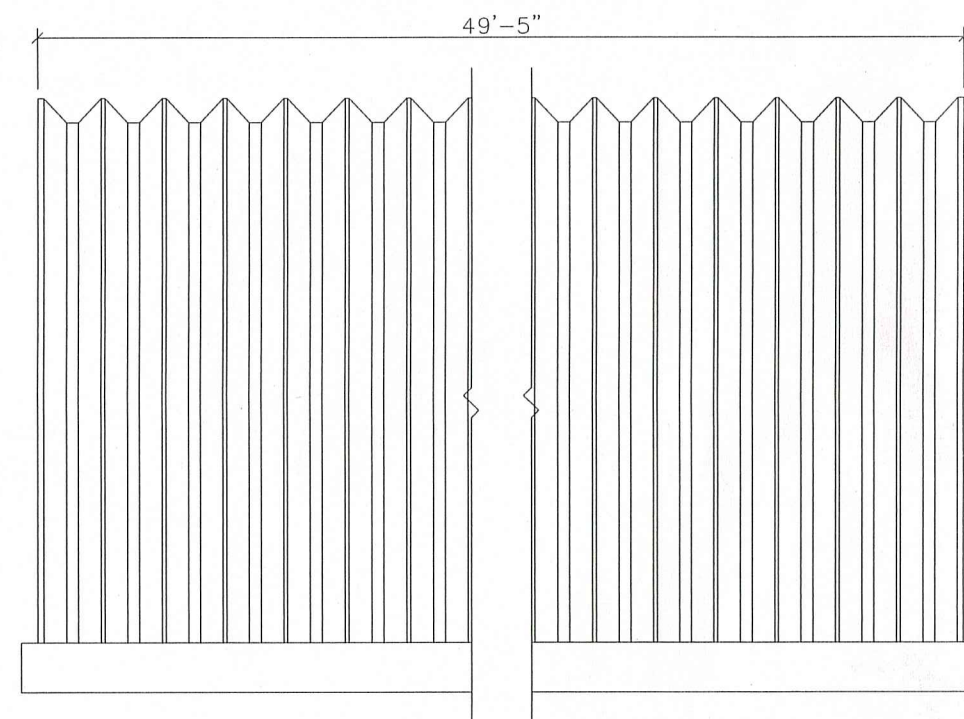
All smoke alarms must be combination type Smoke/CO and Strobe.
 All smoke alarms must be interconnected within each suite Powered by AC with battery backup power.

All Electrical work to be performed by a Licensed Electrical Contractor and in accordance with the Ontario Electrical Code and inspected by the Electrical Safety Authority

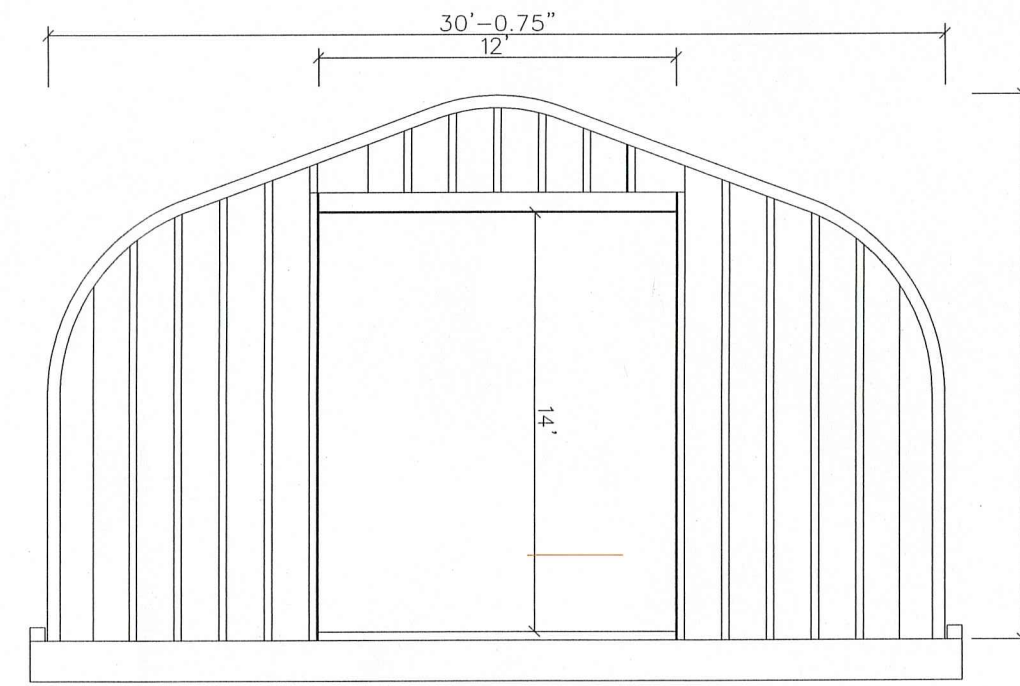
ELECTRICAL SCHEDULE									
2D SYMBOL	NUMBER	QTY	FLOOR	WIDTH	DEPTH	HEIGHT	ATTACHED TO	DESCRIPTION	COMMENTS
\$	E01	3	1	3"	3/4"	5"	WALL	SINGLE POLE	
\$ WP	E02	1	1	3"	3/4"	5"	WALL	WEATHERPROOF	
⊕	E03	9	1	3"	5/16"	5"	WALL	DUPLEX	
⊕	E04	2	1	7 3/16"	7"	14 5/16"	WALL	MINER'S SCONCE	
R	E05	3	1	7 3/8"	7 3/8"	5/16"	CEILING	RECESSED DOWN LIGHT 6	
⊕	E06	1	1	8"	4 1/2"	10"	WALL	STRUCTURE SCONCE	



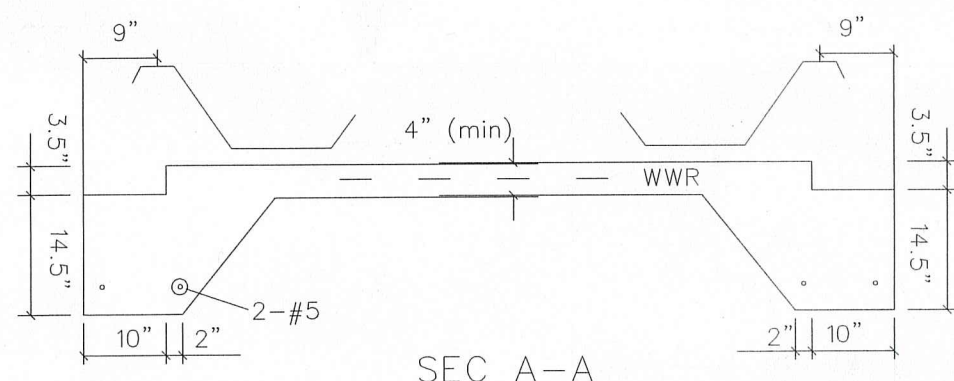
REAR ELEVATION



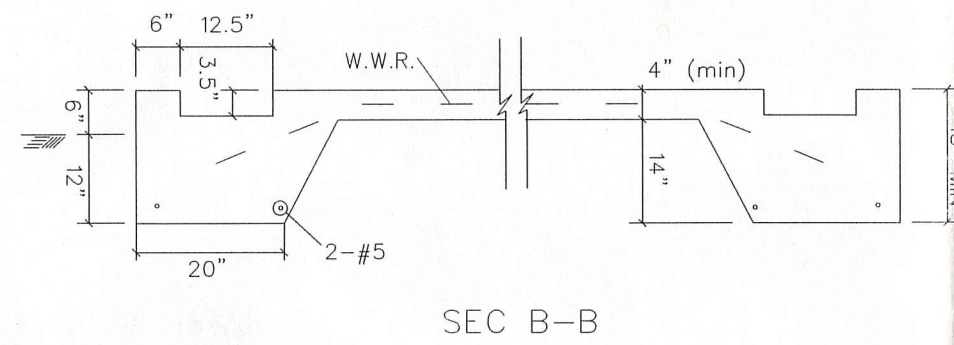
SIDE ELEVATION



FRONT ELEVATION
OVERHEAD DOOR TO BE DESIGNED AND SUPPLIED BY OTHERS



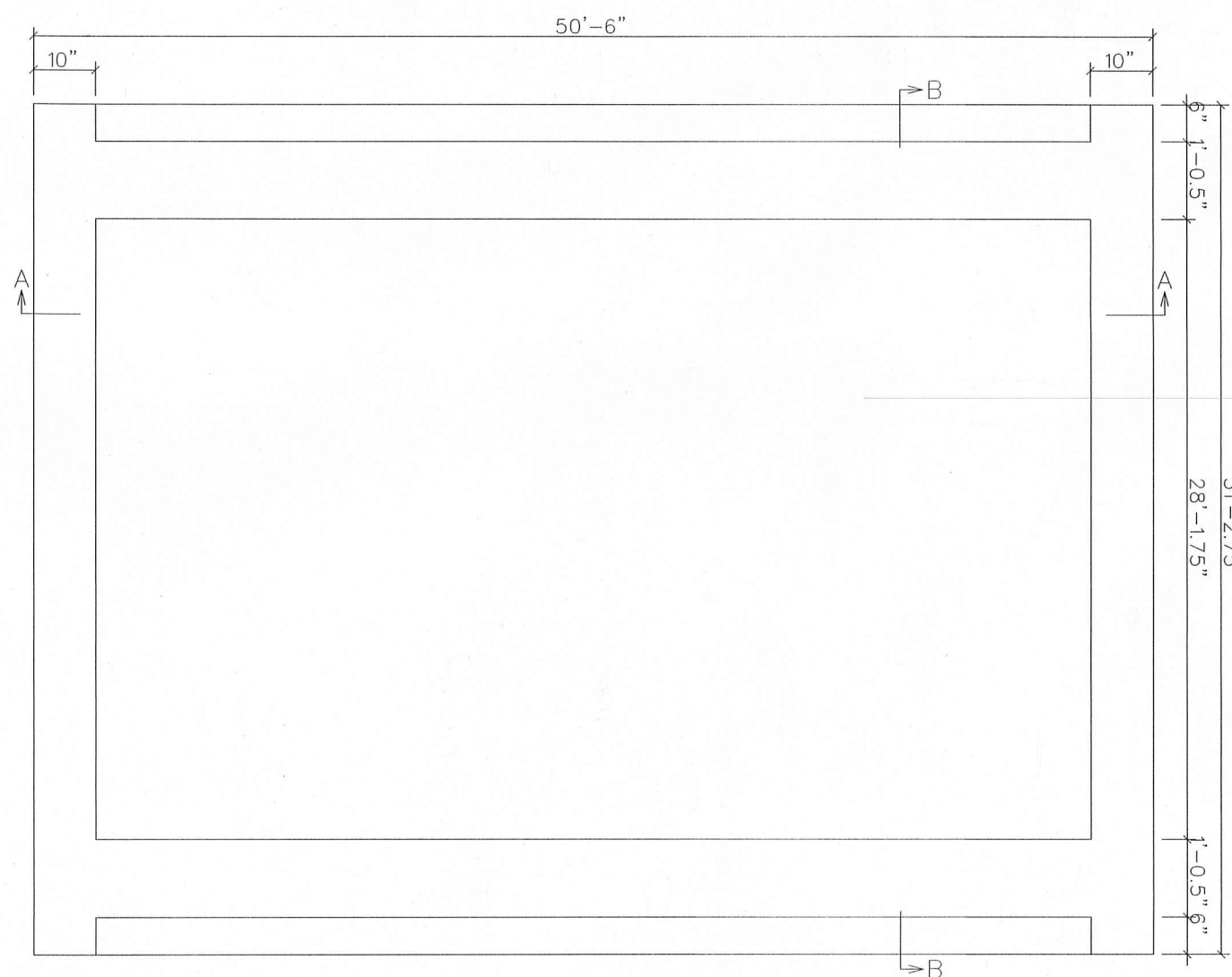
SEC A-A



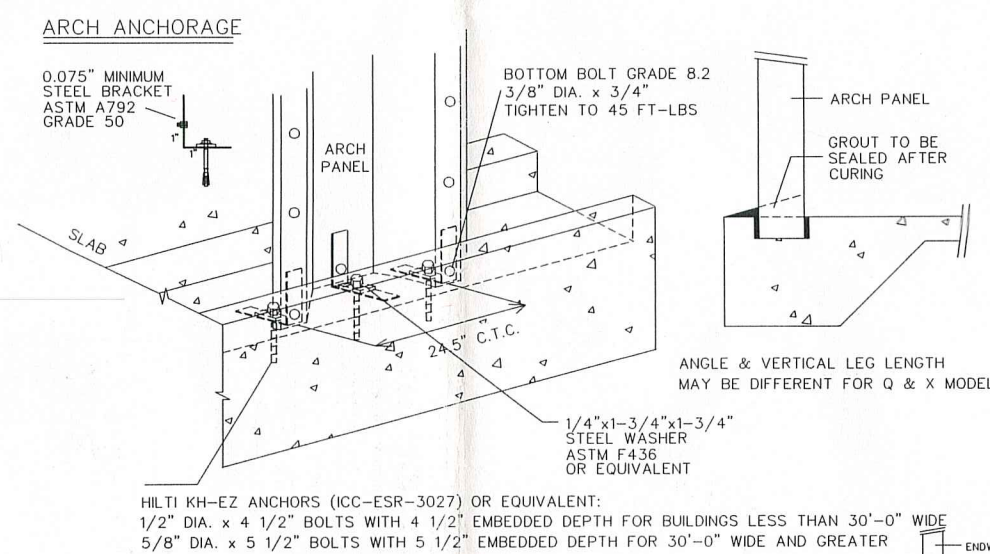
SEC B-B

WARNING: DO NOT REMOVE OR REDUCE THE CONCRETE FLOOR OR THE REINFORCING STEEL, AND/OR RAISE THE TOPS OF THE FOOTERS ABOVE THE FLOOR OR BUILDING FAILURE MAY RESULT

- Minimum Concrete Cover:
- (a) Concrete Cast against earth: 3"
 - (b) Concrete exposed to earth or weather: No. 6 through No. 10 bars: 2"
No. 5 bar and smaller: 1.5"
 - (c) Concrete not exposed to earth or weather: 0.75"



FOUNDATION PLAN



ARCH ANCHORAGE

0.075" MINIMUM STEEL BRACKET ASTM A792 GRADE 50

3/8" DIA. x 3/4" BOTTOM BOLT GRADE 8.2 TIGHTEN TO 45 FT-LBS

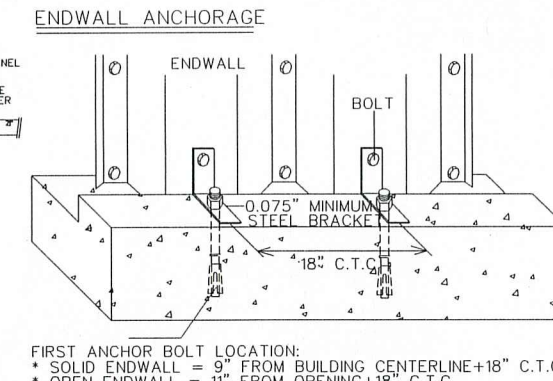
ARCH PANEL

GROUT TO BE SEALED AFTER CURING

ANGLE & VERTICAL LEG LENGTH MAY BE DIFFERENT FOR Q & X MODELS

1/4"x1-3/4"x1-3/4" STEEL WASHER ASTM F436 OR EQUIVALENT

HULTI KH-EZ ANCHORS (ICC-ESR-3027) OR EQUIVALENT:
 • 2.5" WITH NO ENDWALL OR WITH MANUFACTURER'S CLADDED ENDWALL
 • 3.5" WITH CORRUGATED MANUFACTURER'S ENDWALL
 ARCHES AND MANUFACTURER'S ENDWALLS MUST BE GROUTED INTO FOUNDATION ON BOTH SIDES OF PANELS.



ENDWALL ANCHORAGE

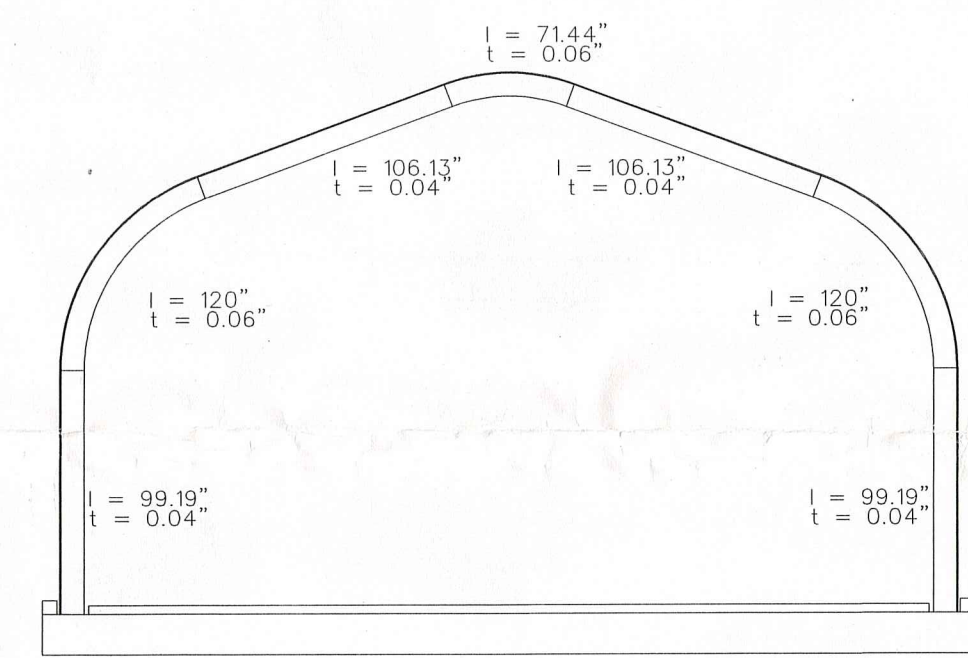
0.075" MINIMUM STEEL BRACKET

ENDWALL PANEL

GROUT TO BE SEALED AFTER CURING

BOLT

FIRST ANCHOR BOLT LOCATION:
 • SOLID ENDWALL = 9" FROM BUILDING CENTERLINE + 18" C.T.C.
 • OPEN ENDWALL = 11" FROM OPENING + 18" C.T.C.



ARCH PROFILE

- GENERAL NOTES**
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST REVISION OF THE NBC 2015 & OBC 2012. DESIGN ACCORDING TO CSA STANDARD CAN/CSA S136-16w/S1-19 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS (APPENDIX B).
 - NO LOADS OTHER THAN THOSE GIVEN UNDER "DESIGN DATA" BELOW SHALL BE IMPOSED ON THE "STRUCTURE"
 - SPECIFIC NOTES AND DETAILS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE BUILDING MANUAL SUPPLIED.
 - THE BUILDING, INCLUDING THE FOUNDATION, MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE DRAWING AND ERECTION INSTRUCTIONS. ANY DEVIATION, UNLESS APPROVED BY US IN WRITING, SHALL NULLIFY OUR CERTIFICATE AND SEAL AND SHALL BE THE SOLE RESPONSIBILITY OF THE ERECTOR.
 - A PROFESSIONAL ENGINEER SHOULD BE RETAINED WHERE SITE INSPECTIONS ARE WARRANTED.
 - NO ARCH PANEL MAY BE CUT OR MODIFIED UNLESS IT IS TO ACCOMMODATE AN ACCESSORY PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ITS INSTRUCTIONS AND/OR THIS DRAWING.
 - MINIMUM SEPARATION FROM THIS BUILDING TO ANY TALLER BUILDING MUST BE THE SMALLER OF 20 FEET AND 6 TIMES THE HEIGHT DIFFERENCE.

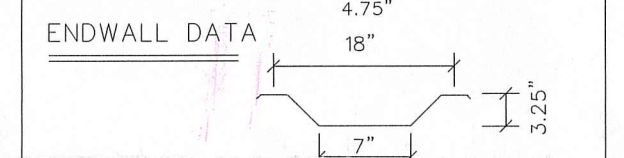
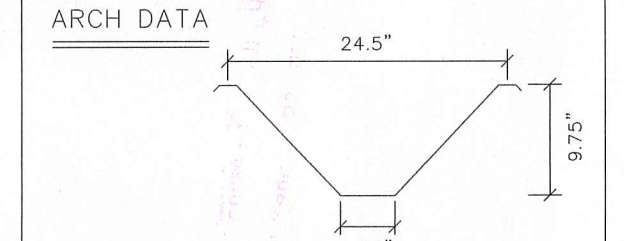
FOUNDATION NOTES

NOTE: THE FOUNDATION ON THE DRAWING SPECIFIES THE MINIMUM REQUIREMENTS. LOCAL BUILDING CODE AND SITE CONDITIONS MAY REQUIRE A STRONGER FOUNDATION, WHICH MUST BE DESIGNED BY A LOCAL ENGINEER.

- THE FOUNDATION SHALL BE FOUNDED ON NATURAL UNDISTURBED SOIL CAPABLE OF SAFELY SUSTAINING 75 kPa. THIS SHALL BE DESIGNED TO FULLY RESIST ALL ROTATION AT THE BASE OF THE ARCH.
- SLAB ON GRADE SHALL BE PLACED ON WELL COMPACTED SOIL CAPABLE OF SUSTAINING 75 kPa WITHOUT APPRECIABLE SETTLEMENT.

DESIGN DATA (MATERIALS)

- CONCRETE $F'_c = 25 \text{ MPa} @ 28 \text{ DAYS}$, CSA A23.3
- REINFORCING STEEL GRADE 400, $F_y = 400 \text{ MPa}$, ASTM A615
- W.W.R. $F_y = 450 \text{ MPa}$, ASTM A1064.
- W.W.R. 152x152 - MW9xMW9.



BOLTS: SAE GRADE 2 OR ASTM A307
 ARCH STEEL THICKNESS - SEE ARCH PROFILE
 ENDWALL STEEL THICKNESS = 0.76 mm

GALVALUME SHEET STEEL
 STRUCTURAL QUALITY ASTM SPECIFICATION A792M
 55% ALUMINUM-ZINC ALLOY-COATED BY THE HOT-DIP PROCESS
 345 MPa MINIMUM YIELD
 450 MPa MINIMUM TENSILE
 HSS SECTIONS SHALL CONFORM TO:
 ASTM A500 GRADE C ($F_y = 345 \text{ MPa}$)
 W SECTIONS SHALL CONFORM TO:
 ASTM A992 GRADE 50 ($F_y = 345 \text{ MPa}$)
 OTHER SECTIONS SHALL CONFORM TO:
 ASTM A36 ($F_y = 250 \text{ MPa}$)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2015:

L: ROOF LIVE LOAD (kPa) = 1
 Ss: GROUND SNOW (kPa) = 2.40
 Cs: ROOF SNOW FACTOR = 0.80
 Cw: WIND EXPOSURE FACTOR = 1.0
 Cs: MAX. SLOPE FACTOR = 1.0
 Sr: RAIN LOAD (kPa) = 0.40
 IMPORTANCE FACTOR (SNOW) = 0.8
 p: WIND EXTERNAL PRESSURE (kPa) = 0.29
 q: VELOCITY PRESSURE (1/50) (kPa) = 0.40
 Ce: EXPOSURE FACTOR = 0.9
 Cg: GUST EFFECT FACTOR = 2.0
 Sa(0.2): SPECTRAL RESPONSE ACCELERATION = 0.64

LEGAL NOTE

This drawing is the property of Future Steel Buildings Intl. Corp. Any duplication of this drawing in whole or in part is strictly forbidden. Anyone doing so will be prosecuted under the full extent of the law.

Future Steel Buildings Intl. Corp.	
220 Chrysler Drive, Brampton, Ontario, Canada, L6S 6B6, Phone: (905) 790-8500	
SCALE: N.T.S.	P.C.
DATE: 5/5/2020	CHECKED BY: STGC
PROJECT: RANJIT PERERA	CUMBERLAND, ON
MODEL: XA30-18	DWG: 20-0929



exp Services Inc.

*Humanics Universal Inc.
Humanics Sanctuary-Phase 1B
Site Servicing Report
OTT-00229886-A0
November 25, 2022*

Appendix C – Septic Permit



LETTER OF AUTHORIZATION

Owner: HUMANICS UNIVERSAL INC - HUMANIC INSTITUTE

Address: 3468 Oke Homel Road
Cumberland Ottawa K4C 1H9
697

Phone No.: 613 824 1525 Cell No.: 613 897 1525

Work No.: _____ Fax No.: _____

LOCATION OF PROPERTY:

Lot No.: _____

Concession No.: _____

Sub lot/Part No.: _____

R. Plan No.: _____

Civic Address: _____

Municipality: OTTAWA

Roll No.: _____

Commercial: (provide description of building and intended use)
HUMANIC SANCTUARY
OUT DOOR TALK

I, the above – mentioned authorize Green Valley Environmental Services to act as my agent to apply for and obtain a sewage system permit from the responsible Approval Agency.

Signature: Hanjil Deros

Date: 29 June 2020

Application for a Permit to Construct or Demolish

This form is authorized under subsection 8(1.1) of the *Building Code Act, 1992*

For use by Principal Authority	
Application number:	Permit number (if different):
Date received:	Roll number:

Application submitted to: OTTAWA SEPTIC SYSTEM OFFICE
(Name of municipality, upper-tier municipality, board of health or conservation authority)


A. Project information			
Building number, street name <i>3468 Old Montreal Rd.</i>	Unit number	Lot/con. <i>7/1</i>	
Municipality <i>Cumberland</i>	Postal code <i>K4C 1H9</i>	Plan number/other description	
Project value est. \$	Area of work (m ²)		

B. Purpose of application				
<input type="checkbox"/> New construction	<input type="checkbox"/> Addition to an existing building	<input type="checkbox"/> Alteration/repair	<input type="checkbox"/> Demolition	<input type="checkbox"/> Conditional Permit
Proposed use of building <i>Commercial Park/Assembly</i>		Current use of building <i>Vacant Land.</i>		
Description of proposed work <i>Install a Septic for Proposed Commercial building/Park.</i>				

C. Applicant				
Applicant is:		<input type="checkbox"/> Owner or	<input checked="" type="checkbox"/> Authorized agent of owner	
Last name <i>Patel</i>	First name <i>Davis</i>	Corporation or partnership <i>Green Valley Environmental Inc.</i>		
Street address <i>6107 First Line Rd.</i>		Unit number	Lot/con.	
Municipality <i>North Gower</i>	Postal code <i>K4M 1A7</i>	Province <i>ON</i>	E-mail <i>engineering@gvegroupltd.com</i>	
Telephone number <i>(613) 692-2616</i>	Fax ()	Cell number <i>(613) 229-5890</i>		

D. Owner (if different from applicant)				
Last name		First name	Corporation or partnership	
			<i>Humanics Universal Inc.</i>	
Street address <i>3468 Old Montreal Rd.</i>		Unit number	Lot/con. <i>7/1</i>	
Municipality <i>Cumberland.</i>	Postal code <i>K4C 1H9</i>	Province <i>ON</i>	E-mail <i>Dr.rperera@rogers.com</i>	
Telephone number <i>(613) 821-1525</i>	Fax ()	Cell number <i>(613) 697-1525</i>		

Application for a Permit to Construct or Demolish – Effective January 1, 2014

E. Builder (optional)			
Last name	First name	Corporation or partnership (if applicable)	
Street address			Unit number Lot/con.
Municipality	Postal code	Province	E-mail
Telephone number ()	Fax ()	Cell number ()	
F. Tarion Warranty Corporation (Ontario New Home Warranty Program)			
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties Plan Act</i> ? If no, go to section G.			Yes No <input checked="" type="checkbox"/>
ii. Is registration required under the <i>Ontario New Home Warranties Plan Act</i> ?			Yes No <input checked="" type="checkbox"/>
iii. If yes to (ii) provide registration number(s): _____			
G. Required Schedules			
i) Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.			
ii) Attach Schedule 2 where application is to construct on-site, install or repair a sewage system.			
H. Completeness and compliance with applicable law			
i) This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted).			Yes <input checked="" type="checkbox"/> No
Payment has been made of all fees that are required, under the applicable by-law, resolution or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.			Yes <input checked="" type="checkbox"/> No
ii) This application is accompanied by the plans and specifications prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> .			Yes <input checked="" type="checkbox"/> No
iii) This application is accompanied by the information and documents prescribed by the applicable by-law, resolution or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> which enable the chief building official to determine whether the proposed building, construction or demolition will contravene any applicable law.			Yes <input checked="" type="checkbox"/> No
iv) The proposed building, construction or demolition will not contravene any applicable law.			Yes <input checked="" type="checkbox"/> No
I. Declaration of applicant			
I, <u>Davis Patel</u> (print name) declare that:			
1. The information contained in this application, attached schedules, attached plans and specifications, and other attached documentation is true to the best of my knowledge.			
2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.			
Date <u>Sep 20, 2022</u>		Signature of applicant <u></u>	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

Schedule 1: Designer Information


Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information			
Building number, street name 3468 Old Montreal Rd.	Unit no.	Lot/con. 7/1	
Municipality Cumberland	Postal code K4C 1H9	Plan number/ other description	
B. Individual who reviews and takes responsibility for design activities			
Name Davis Patel	Firm Green Valley Environmental Inc.		
Street address 6107 First Line Rd.		Unit no.	Lot/con.
Municipality North Gower	Postal code K4M 1A7	Province ON	E-mail Engineering@greenvalleyenv.com
Telephone number () ()	Fax number () ()	Cell number () ()	
C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C]			
House	HVAC – House	Building Structural	
Small Buildings	Building Services	Plumbing – House	
Large Buildings	Detection, Lighting and Power	Plumbing – All Buildings	
Complex Buildings	Fire Protection	<input checked="" type="checkbox"/> On-site Sewage Systems	
Description of designer's work Design a septic system for Proposed Park and Assembly Building.			
D. Declaration of Designer			
I, <u>Davis Patel</u> declare that (choose one as appropriate): (print name)			
I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories.			
Individual BCIN: <u>119685</u>			
Firm BCIN: <u>16035</u>			
I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code.			
Individual BCIN: _____			
Basis for exemption from registration: _____			
The design work is exempt from the registration and qualification requirements of the Building Code.			
Basis for exemption from registration and qualification: _____			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. I have submitted this application with the knowledge and consent of the firm.			
Date Sep 20, 2022	Signature of Designer		

NOTE:

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) (c) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Schedule 2: Sewage System Installer Information

A. Project Information			
Building number, street name 3468 Old Montreal Rd.		Unit number	Lot/con. 7/1
Municipality Cumberland	Postal code K4C 1H9	Plan number/ other description	
B. Sewage system installer			
Is the installer of the sewage system engaged in the business of constructing on-site, installing, repairing, servicing, cleaning or emptying sewage systems, in accordance with Building Code Article 3.3.1.1, Division C?			
<input checked="" type="checkbox"/> Yes (Continue to Section C)		<input type="checkbox"/> No (Continue to Section E)	
		Installer unknown at time of application (Continue to Section E)	
C. Registered installer information (where answer to B is "Yes")			
Name Green Valley Environmental Inc.		BCIN 16035	
Street address 6107 First Line Rd.		Unit number	Lot/con.
Municipality North Gower	Postal code K4M 1A7	Province ON	E-mail Wscabrook@gvcgroup.ca
Telephone number (613) 692-2416	Fax ()	Cell number (613) 229-3900	
D. Qualified supervisor information (where answer to section B is "Yes")			
Name of qualified supervisor(s) Bill Scabrook		Building Code Identification Number (BCIN) 11234	
E. Declaration of Applicant:			
I <u>Davis Patel.</u> declare that:			
(print name)			
I am the applicant for the permit to construct the sewage system. If the installer is unknown at time of application, I shall submit a new Schedule 2 prior to construction when the installer is known;			
<u>OR</u>			
I am the holder of the permit to construct the sewage system, and am submitting a new Schedule 2, now that the installer is known.			
I certify that:			
1. The information contained in this schedule is true to the best of my knowledge.			
2. If the owner is a corporation or partnership, I have the authority to bind the corporation or partnership.			
Date	Sep 20, 2022	Signature of applicant	



Do Not Complete
 Permit # _____
 Revision # _____
 Date _____

Schedule 4
Proposed Services
 Complete Sections 1 thru 7

1. Engineered

- Yes
- No

2. Water supply

- Proposed
- Existing

3. Type of work proposed

- New Installation
- Replacement
- Alteration

4. Type of Well

- Dug/bored/Sandpoint well
- Drilled well
- Municipal
- Other

5. Residential Sewage Design Flow Info.

Bedrooms _____
House (floor area) _____ m²
People _____
Total Fixture Units _____ (Schedule 8)
Residential Flow _____ L/day

6. Sewage Design Flow Other Occupancies

Design Flow 4600 L/day
 Detailed sewage flow calculations:
Public Park: 50 people x 20 = 1000 L/day
Assembly Building 100 people x 36 = 3600 L/day

7. Type of System

- Treatment Unit _____
- Class 2 – Leaching Pit
- Class 3 – Cesspool
- Class 4 – Shallow Buried Trench

- Class 4 – Trench (Schedule 9)
 - Fully raised
 - Partially raised
 - In-ground
- Class 4 – Filter Media (Schedule 10)
 - Fully raised
 - Partially raised
 - In-ground

- Class 4 – BMEC Area Bed (Schedule 11)
 - Fully raised
 - Partially raised
 - In-ground
- Class 4 – “Type A” Dispersal (Schedule 13)
 - Fully raised
 - Partially raised
 - In-ground
- Class 4 – “Type B” Dispersal (Schedule 14)
 - Fully raised
 - Partially raised
 - In-ground
- Class 5 – Holding Tank (9000L min)
- Tank/Treatment Unit/Pump Chamber ONLY
- Effluent Filter/Risers ONLY



Do Not Complete
 Permit No _____
 Revision No _____
 Date _____

**Schedule 5
 Sewage System Details**

Type of System Class 4 Filter Media Bed. (Schedule 4)
 Septic/Holding Tank Size: 11500 Litres Make: MacGregor
 Septic Tank Effluent Filter Make: 36000 Polylok Model: PL-250

Treatment Unit – Make & Model N/A.

Number of Units:

Other: _____

Refer to Typical Drawing #

Pump(s) required _____

Mantle Information:

Pump Rate _____ L/15min

Native or imported =15m in _____ direction(s)

Note: Alarm required for all pumping systems

Slope subgrade _____ % slope
 _____ direction(s)

Site to be Scarified (If clay) YES / NO
 Clay Seal Required (If bedrock) YES / NO

Trench

Distribution Pipe Length _____ m

Loading Area _____ m²

Type of Chamber _____

Length of Chamber _____ m

Dispersal Bed

BMEC **Type A** **Type B**

Stone _____ m²

Sand _____ m²

Pipe _____ m²

Linear Loading _____ L/m²

Shallow Buried Trench

Pipe Length _____ m

Filter Media Bed

Stone 96 m²

Extended Base 96 m²

Pipe 84 m

Weight of Filter Media _____ Kg

Loading Area Native 460 m²

Tank/Treatment Unit/Pump Chamber Replacement ONLY

Effluent Filter & Riser ONLY

Construction Notes:



Do Not Complete
 Permit # _____
 Revision # _____
 Date _____

Schedule 8 Fixture unit count

Fixtures	<i>Washroom</i> + #	<i>Partition</i>	X	unit count	=	Fixture Count
Bathroom						
Bathroom group (toilet, sink and tub or shower) installed in the <u>same</u> room		+	X	6	=	
Bathtub with/without overhead shower		+	X	1.5	=	
<i>Urinal</i>	<i>1</i>	+	X	1.5	=	<i>1.5</i>
Wash basin (SINK) (1½inch trap)	<i>2</i>	+	X	1.5	=	<i>3</i>
Watercloset (TOILET) tank operated	<i>3</i>	+	X	4	=	<i>12</i>
Bidet		+	X	1	=	
Kitchen						
Dishwasher	<i>1</i>	+	X	1	=	<i>1</i>
Sink with/without garbage grinder(s), domestic and other small type single, double or 2 single with a common trap	<i>1</i>	+	X	1.5	=	<i>1.5</i>
Other						
Domestic washing machine		+	X	1.5	=	
Combination sink and laundry tray single or double (Installed on 1½ trap)		+	X	1.5	=	

*Total: *19*

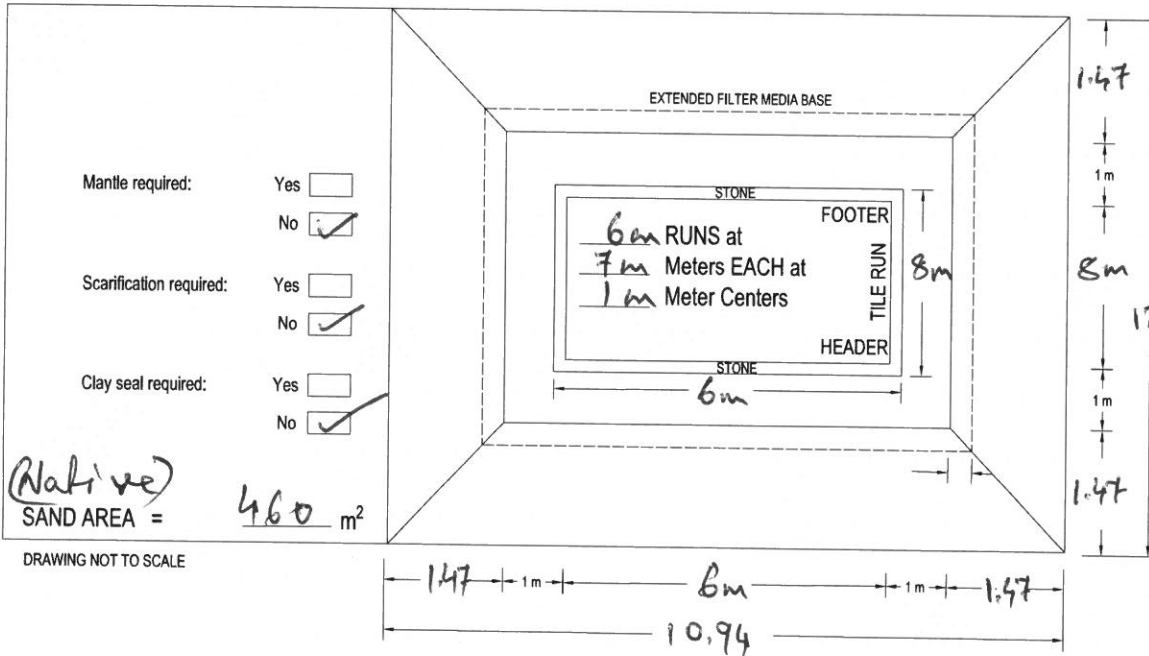
*Insert the TOTAL in section 5 of Schedule 4 (0.Reg 151/13 Table 7.4.9.3)

1. **Sump pumps and floor drains are not to be connected to the sewage system.** Connection of such fixtures to a sewage system may lead to a hydraulic failure of the said system. The above mentioned fixtures should be discharged separately to an approved Class 2 (leaching pit) sewage system.
2. Where laundry waste is not more than 20% of the total daily design sanitary sewage flow, it may discharge to a sewage system (Part 8, OBC, 8.1.3.1(2)).

[Signature]
 Agent/Owner signature

Sep 20, 2022
 Date

Plan View



- Mantle required: Yes No
- Scarification required: Yes No
- Clay seal required: Yes No

(Native)
SAND AREA = 460 m²

DRAWING NOT TO SCALE

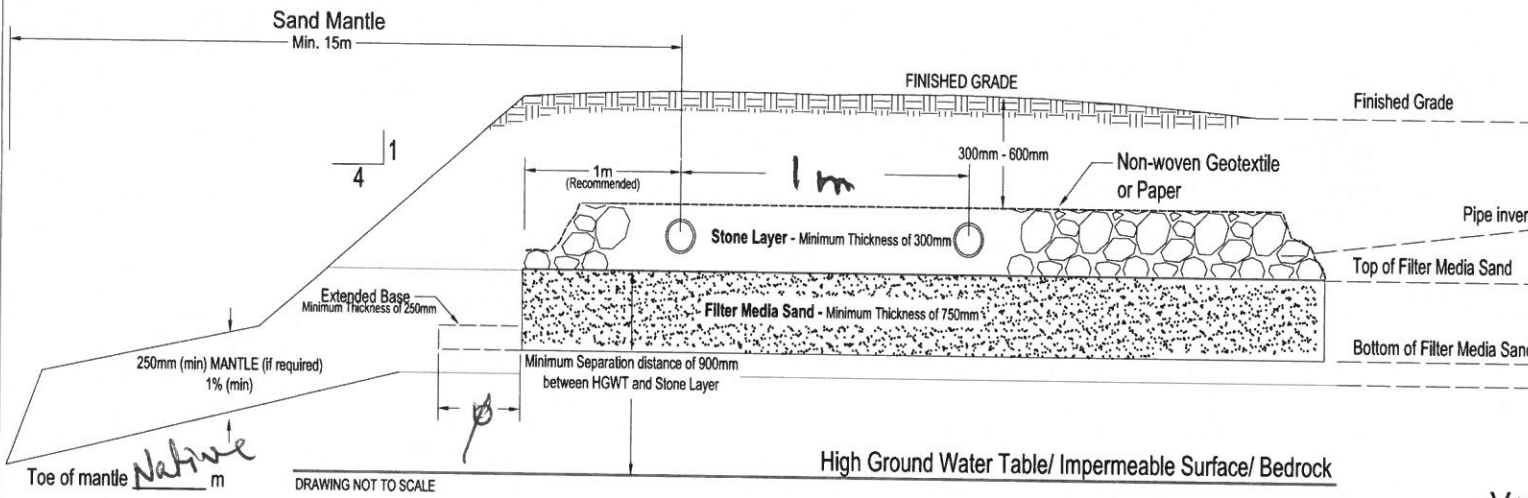


Ottawa Septic System Office Bureau des systèmes septiques d'Ottawa

TYPICAL DRAWING B
BURIED OR RAISED TILE BED
FILTER MEDIA METHOD

Do Not Complete
Permit # _____
Revision # _____
Date _____

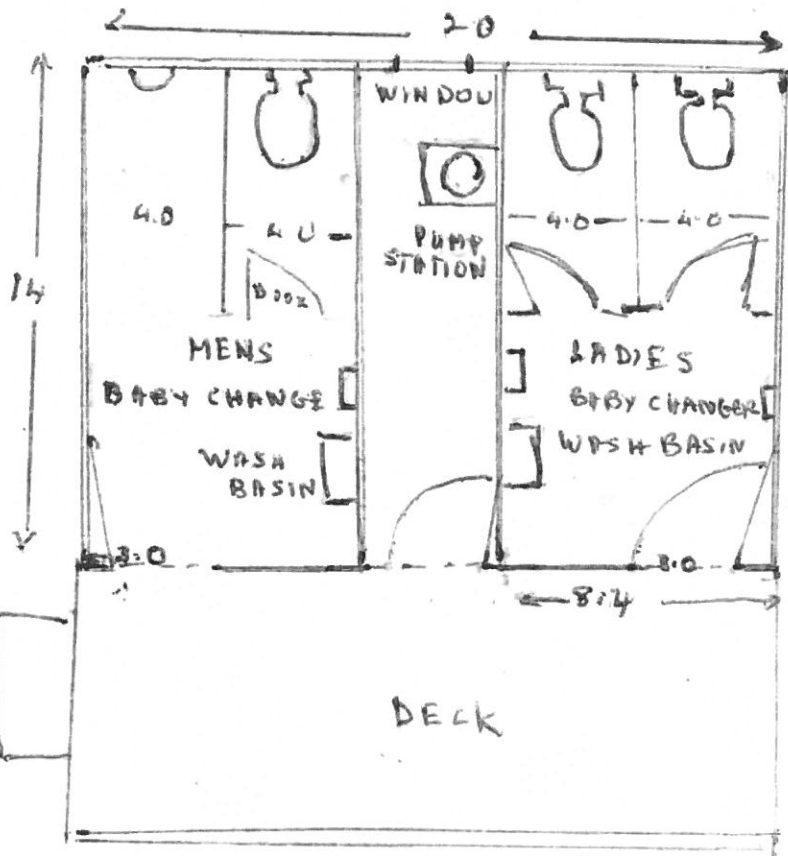
Cross-Section Profile



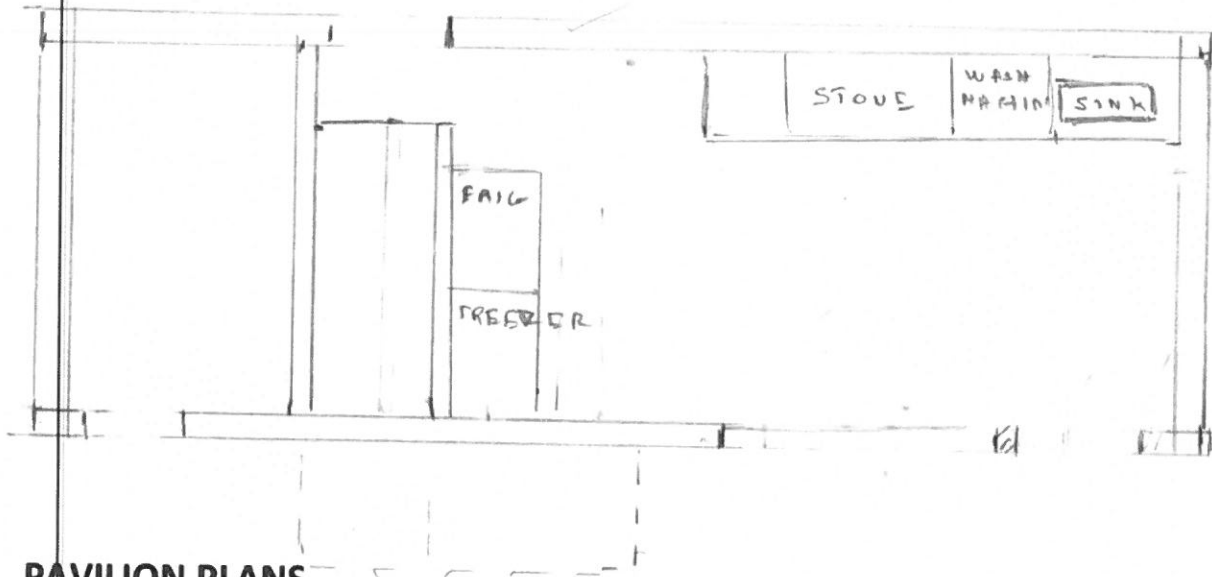
Proposed Installation Grades	Approved Installation Grades	Existing Grade
Finished Grade		
Pipe invert		
Top of Filter Media Sand		
Bottom of Filter Media Sand		

62.95
62.50
62.35
61.60
61.45

DRAWING NOT TO SCALE



TOILETS AT
THE HUMANICS
SANCTUARY



PAVILION PLANS

Scale 1 Centimeter = 2 feet.

Seating Capacity 9 Tables of 8 seats at ground level

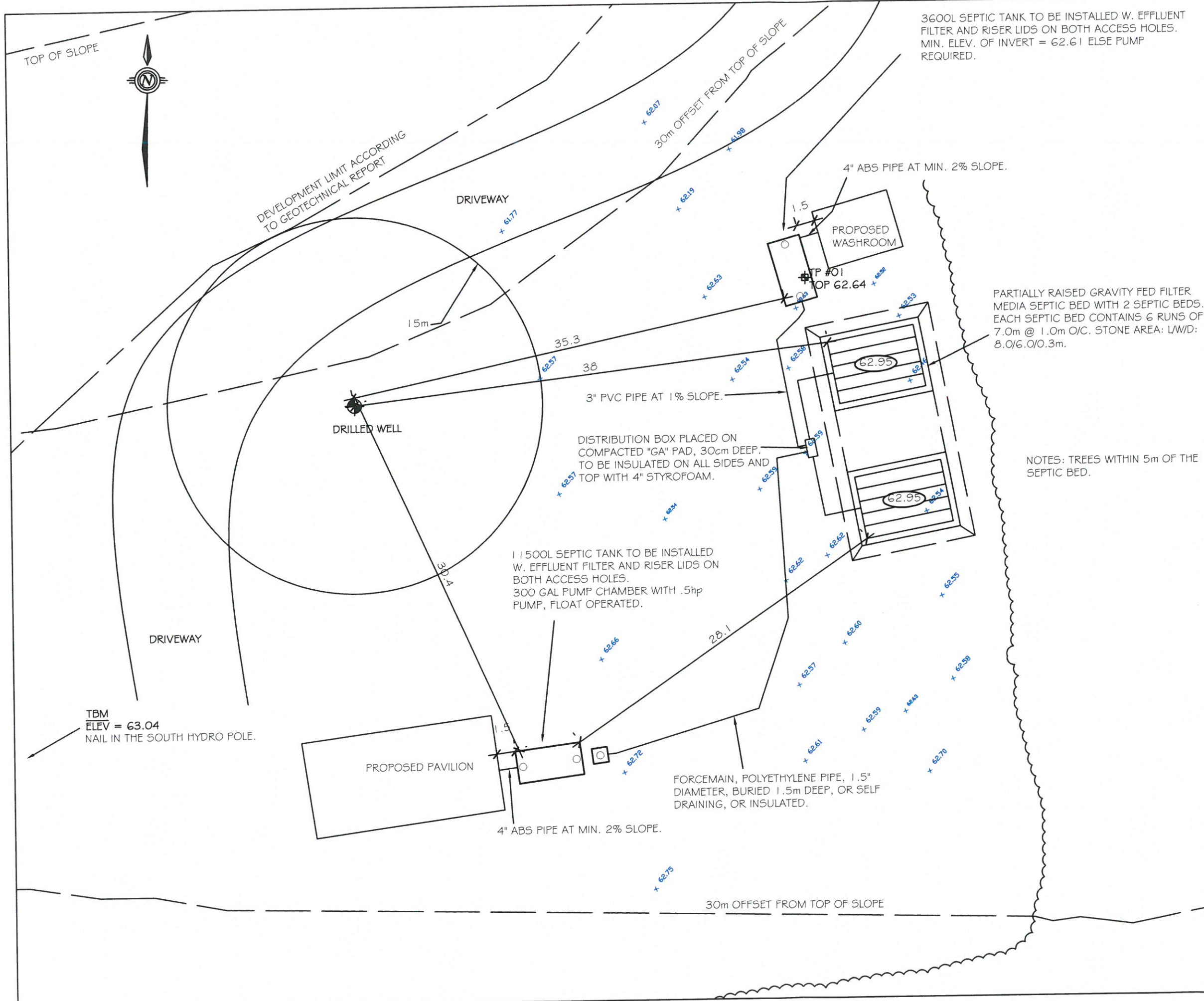
2 Tables of 8 seats on the loft

Total 11 tables with accommodation for 96 guests

Server 4

Total capacity 100 persons; The pavilion will probably be in full capacity at most only for about 6- 10 times per year for at most 5 hours per seating.

Expected average use for 6 months will be only about 25 persons



3600L SEPTIC TANK TO BE INSTALLED W. EFFLUENT FILTER AND RISER LIDS ON BOTH ACCESS HOLES. MIN. ELEV. OF INVERT = 62.61 ELSE PUMP REQUIRED.

PARTIALLY RAISED GRAVITY FED FILTER MEDIA SEPTIC BED WITH 2 SEPTIC BEDS. EACH SEPTIC BED CONTAINS 6 RUNS OF 7.0m @ 1.0m O/C. STONE AREA: L/W/D: 8.0/6.0/0.3m.

DISTRIBUTION BOX PLACED ON COMPACTED "GA" PAD, 30cm DEEP. TO BE INSULATED ON ALL SIDES AND TOP WITH 4" STYROFOAM.

11500L SEPTIC TANK TO BE INSTALLED W. EFFLUENT FILTER AND RISER LIDS ON BOTH ACCESS HOLES. 300 GAL PUMP CHAMBER WITH .5hp PUMP, FLOAT OPERATED.

FORCEMAIN, POLYETHYLENE PIPE, 1.5" DIAMETER, BURIED 1.5m DEEP, OR SELF DRAINING, OR INSULATED.

NOTES: TREES WITHIN 5m OF THE SEPTIC BED.

NOTES:

1. ALL TREATMENT UNITS AND LEACHING BED ARE TO BE INSTALLED IN ACCORDANCE WITH MINIMUM OBC CLEARANCE DISTANCES. ANY OMISSIONS OR INACCURACIES SHALL BE BROUGHT TO THE ATTENTION OF GVE AND OSSO.
2. CARE IS TO BE EXERCISED DURING CONSTRUCTION ACTIVITIES NEAR OVERHEAD HYDRO WIRES.
3. EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR MUST VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
4. SOIL CONDITIONS ARE ACCURATE FOR THE LOCATIONS SHOWN. CONTRACTOR MUST CONTACT THE DESIGN ENGINEER OR REGULATORY AUTHORITY SHOULD SOIL CONDITIONS DIFFER.
5. ALL DIMENSIONS AND CONDITIONS TO BE VERIFIED ON SITE, FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
6. UTILITY LOCATES SHALL BE COMPLETED PRIOR TO ANY EXCAVATION.
7. THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.
8. THIS DOCUMENT IS COPYRIGHT PROTECTED AND IS THE SOLE PROPERTY OF GVE GROUP. THIS DRAWING SHALL NOT BE ALTERED IN ANY MANNER.
9. EXISTING LOT SERVICED WITH A DRILLED WELL.

METRIC:

DISTANCES AND ELEVATIONS SHOWN ON THIS PLAN ARE IN METERS AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

LEGEND:

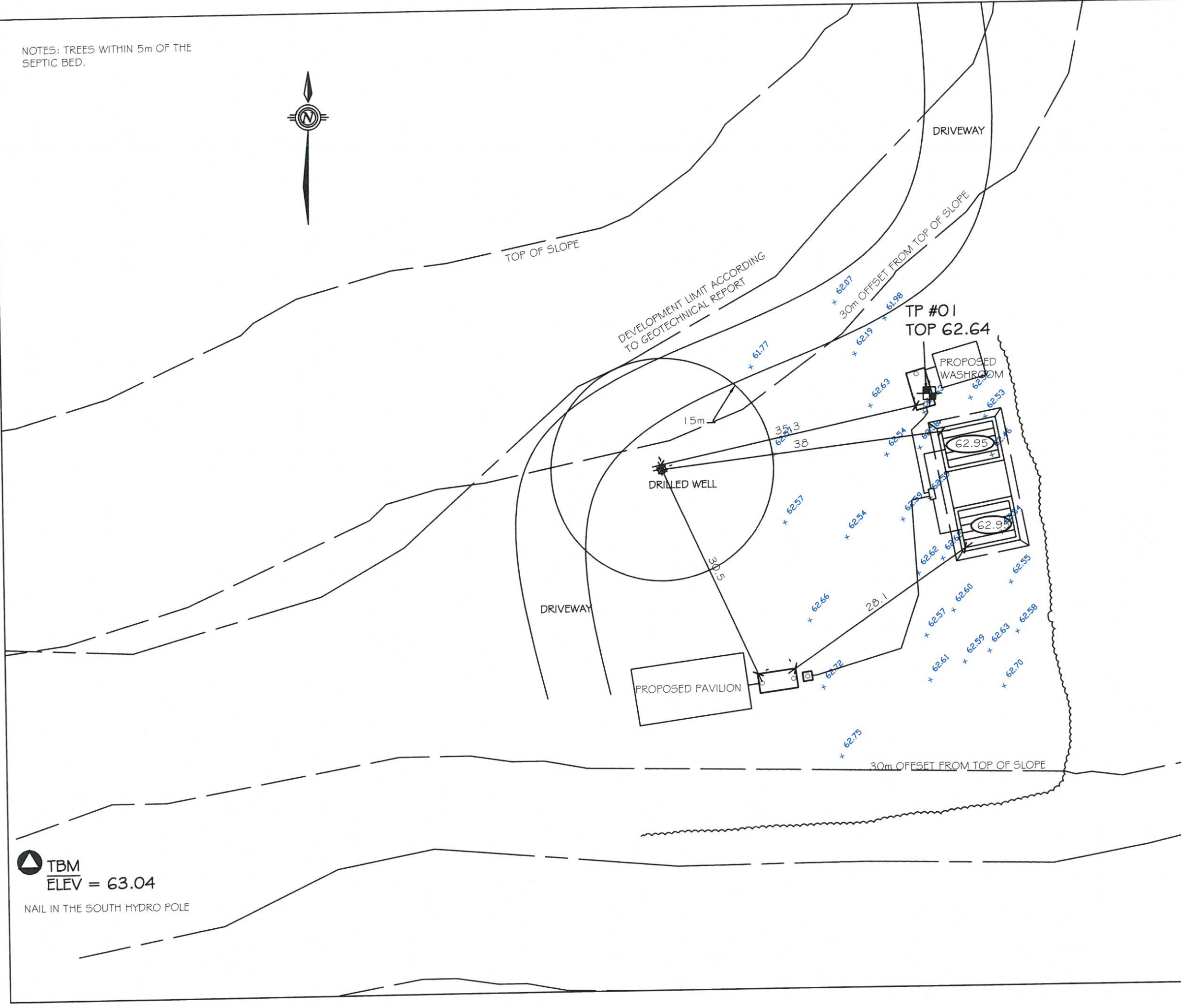
- PROPOSED ELEVATION
- EXISTING ELEVATION
- EXISTING WORKS
- PROPOSED SEWAGE WORKS
- FENCE LINE
- PROPERTY LINE
- TBM TEMPORARY BENCH MARK (DESCRIPTION: NAIL IN SOUTH HYDRO POLE)
- TEST PIT LOCATION

SEPARATION DISTANCES:

1. MINIMUM CLEARANCE FROM SEPTIC PIPE TO:
 - LOT LINE = 4.0m
 - HOUSE = 6.0m
 - DRILLED WELL = 16.0m
2. MINIMUM CLEARANCE FROM TREATMENT UNITS TO:
 - LOT LINE = 3.0m
 - HOUSE = 1.5m
 - DRILLED WELL = 15.0m

Drawn by: JP	Drawn by: JP	Checked by: DP		
Rev.	Description	Date	Approved	
Township	Plan#	Lot	Sublot	Con
County:	Civic Address:	Draw. No.:	Date:	Scale:
	3468 OLD MONTREAL RD.	GP-6853-20	19/09/24	1:300
GREEN VALLEY ENVIRONMENTAL				
On-Site Sewage Treatment Plan for the Residence of: RANJIT PERERA				

NOTES: TREES WITHIN 5m OF THE SEPTIC BED.



NOTES:

1. ALL TREATMENT UNITS AND LEACHING BED ARE TO BE INSTALLED IN ACCORDANCE WITH MINIMUM OBC CLEARANCE DISTANCES. ANY OMISSIONS OR INACCURACIES SHALL BE BROUGHT TO THE ATTENTION OF GVE AND OSSO.
2. CARE IS TO BE EXERCISED DURING CONSTRUCTION ACTIVITIES NEAR OVERHEAD HYDRO WIRES.
3. EXISTING ELEVATIONS ARE APPROXIMATE. CONTRACTOR MUST VERIFY ALL ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
4. SOIL CONDITIONS ARE ACCURATE FOR THE LOCATIONS SHOWN. CONTRACTOR MUST CONTACT THE DESIGN ENGINEER OR REGULATORY AUTHORITY SHOULD SOIL CONDITIONS DIFFER.
5. ALL DIMENSIONS AND CONDITIONS TO BE VERIFIED ON SITE, FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
6. UTILITY LOCATES SHALL BE COMPLETED PRIOR TO ANY EXCAVATION.
7. THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK.
8. THIS DOCUMENT IS COPYRIGHT PROTECTED AND IS THE SOLE PROPERTY OF GVE GROUP. THIS DRAWING SHALL NOT BE ALTERED IN ANY MANNER.
9. EXISTING LOT SERVICED WITH A DRILLED WELL.

METRIC:

DISTANCES AND ELEVATIONS SHOWN ON THIS PLAN ARE IN METERS AND MAY BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

LEGEND:

- PROPOSED ELEVATION
- EXISTING ELEVATION
- EXISTING WORKS
- PROPOSED SEWAGE WORKS
- FENCE LINE
- PROPERTY LINE
- TBM
- TEST PIT LOCATION

SEPARATION DISTANCES:

1. MINIMUM CLEARANCE FROM SEPTIC PIPE TO:
 - LOT LINE = 4.0m
 - HOUSE = 6.0m
 - DRILLED WELL = 16.0m
2. MINIMUM CLEARANCE FROM TREATMENT UNITS TO:
 - LOT LINE = 3.0m
 - HOUSE = 1.5m
 - DRILLED WELL = 15.0m

TBM
ELEV = 63.04
NAIL IN THE SOUTH HYDRO POLE

Drawn by: JP	Drawn by: JP	Checked by: DP		
Rev.	Description	Date	Approved	
Township	Plan#	Lot	Sublot	Con
		Draw. No.: SP-6853-20		
County:	Civic Address:	Date:	Scale:	
	3468 OLD MONTREAL RD.	19/09/24	1:300	
GREEN VALLEY ENVIRONMENTAL				
On-Site Sewage Treatment Plan for the Residence of: RANJIT PERERA				