

CLIENT:

BALRAM CHUNGH
19831 MCNEIL ROAD
PITT MEADOWS, BC V3Y 1Z1

PROJECT DESCRIPTION:

SITE PREPARATION BY PRELOAD METHOD FOR
PROPOSED RURAL RESIDENTIAL HOME AND ACCESSORY BUILDINGS
19831 MCNEIL ROAD
PITT MEADOWS, BC

CONSULTANT:

BRAUN GEOTECHNICAL LTD.
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DRAWING LIST

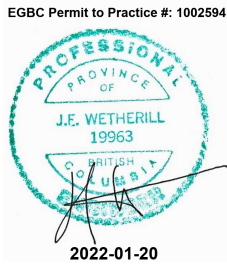
- G1 COVER SHEET
- G2 PRELOAD FILL PLAN
- G3 PRELOAD SECTION
- G4 PRELOAD SPECIFICATIONS

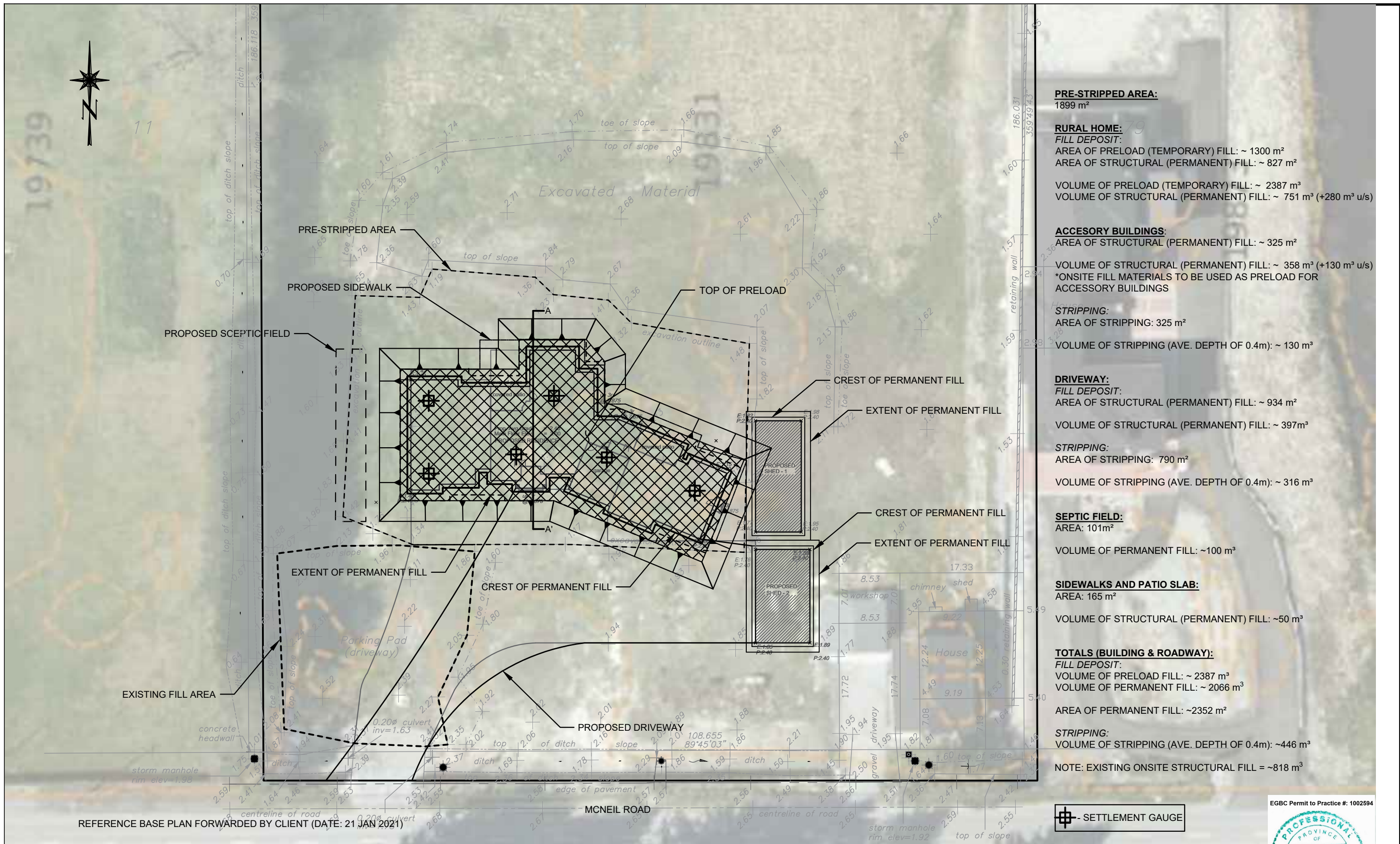


Rev.	Description	Date
REV 0	ISSUED FOR REVIEW	2021-06-25
REV 1	REVISED FILL VOLUMES	2022-01-20

Client Balram Chung			
Project Rural Residential Home and Accessory Buildings 19831 McNeil Road, Pitt Meadows, BC			
Project no. 21-9110	Drawn RG	Design SN	Checked JW

Title COVER SHEET		
Date June 25, 2021	Scale N/A	Drawing no. 21-9110-G1

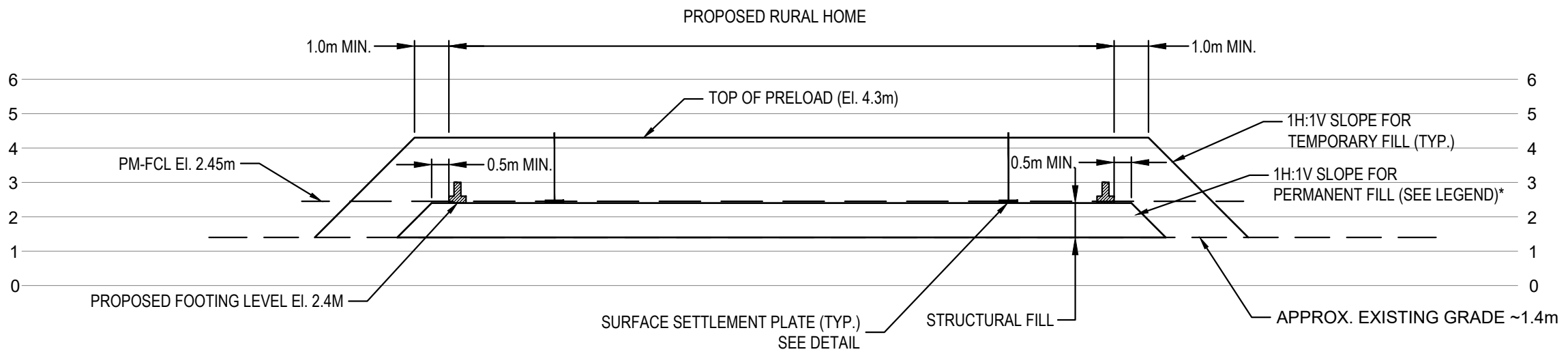




	PTP# 1002594			Client				Title		
	Rev.	Description	Date	Balram Chung						
	REV 0	ISSUED FOR REVIEW	2021-06-25	Project						
	REV 1	REVISED FILL VOLUMES	2022-01-20					Rural Residential Home and Accessory Buildings 19831 McNeil Road, Pitt Meadows, BC		
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				21-9110	RG	SN	JW	June 25, 2021	1:500	21-9110-G2



SECTION A-A'



LEGEND

PM-F.C.L. - FLOOD CONSTRUCTION LEVEL (ELEVATION IN METERS)
(PITT MEADOWS RURAL FLOODPLAIN BY-LAW 2384)

* ASSUMES 2.5H:1V PERMANENT SLOPES (OR FLATTER)
FOLLOWING REMOVAL OF TEMPORARY FILL



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Title	PRELOAD SECTION
Date	June 25, 2021
Scale	1:150
Drawing no.	21-9110-G3



Building Preload and Monitoring Specifications:

1.0 Work Included

The contractor shall provide all necessary labour, materials and equipment to carry out the work, including the following:

- a. Construction of site fills and preloads completed as shown on the drawings and as specified including all related works.
See Architectural Drawings for layout coordinates of the building.
- b. Necessary temporary erosion control measures including silt fencing and temporary drainage swales as required.
- c. Necessary steps required to protect instrumentation and appurtenances from damage and disturbance due to any causes including on-site operations, vandalism and weather.
- d. Repair or replace any instruments that are damaged or disturbed as a result of the contractor's operations or failure to provide adequate protection.
- e. Co-operate fully with the Geotechnical Engineer and provide all reasonable assistance as necessary for instrument readings and measurements.
- f. Provide "As-Built" site plan surveyed by a registered BC Land Surveyor (BCLS) at completion of preload fill placement.
- g. Obtain settlement gauge readings and measurements of fill thickness and levels at intervals specified below.

2.0 Execution

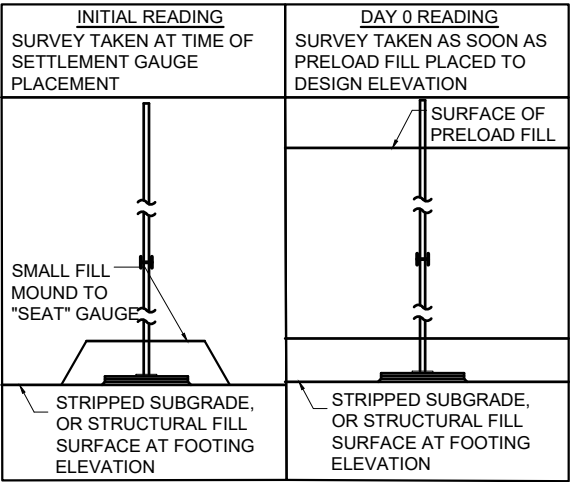
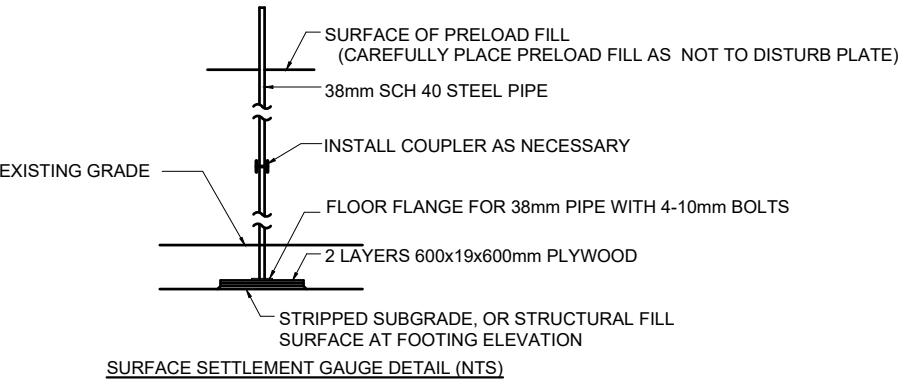
- a. The work shall be carried out in accordance with applicable bylaws and regulations
- b. The contractor shall submit details of his proposed construction schedule, construction methods and equipment to the Geotechnical Engineer prior to construction.
- c. Establish survey benchmark outside the influence of the subject preload or any other preloads in the area.
- d. Strip subgrades and obtain field review by the Geotechnical Engineer.
- e. Place Settlement gauges at the locations shown on the attached plan. Measure gauge pipe lengths, base and top elevations at time of installation.
- f. Construct site preload fills to finished lines and levels shown on the drawings in a single stage. Consideration should be given to placement of permanent fills to at least 300mm above proposed slab on grade level to account for anticipated settlements. Additional permanent fill may be required following preload removal based on actual settlements.
- g. Settlement gauge readings should be obtained initially at the time the gauges are installed and at day 0, 3, 7, and 14 following installation of site fills to the specified level. Settlement gauges are typically surveyed once every two weeks after the initial monitoring period. Survey for gauge monitoring should be carried out using a closed loop level rod survey to an accuracy of +/-2mm. BCLS preferred but not essential for gauge monitoring.
- h. Rainwater run-off shall be controlled at all times by sloping site grades as necessary to avoid ponding and erosion.
- i. Temporary drainage measures are to be implemented such that surface run off does not discharge onto adjacent properties.
- j. Immediately after placement of fill is complete a survey of the preload fill area should be carried out by a registered BC Land Surveyor (BCLS). The location of the fill placed with respect to the property lines as well as the location of instrumentation should be plotted by the BCLS and forwarded to Braun Geotechnical for review.

3.0 Materials

- a. Permanent site fills below grade supported areas should typically consist of clean, free draining, well-graded sand and gravel with less than 5% fines (percent passing No. 200 sieve). Silty fill may also be used as permanent fill, subject to review and acceptance of the material and site conditions by Braun Geotechnical. Permanent site fills should be compacted in maximum 300 mm thick lifts to at least 95% Modified Proctor Maximum Dry Density (MPD). Compaction of the initial and second lifts should be carried out using compaction equipment selected so as to avoid potential for subgrade disturbance.
- b. Preload fill materials including consideration for use of excavated silty soils as preload material would be subject to review and acceptance of the material and site conditions by Braun Geotechnical.

4.0 Post - Building Preload

- a. On site excavated material should be moved to accessory building areas on prepared structural fill platforms minimum 1.0m thickness. Monitoring of this surcharge fill is not required.
- b. Stockpiling of preload fills on the structural fill platform is not recommended.



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Title PRELOAD SPECIFICATIONS		
Date June 25, 2021	Scale NTS	Drawing no. 21-9110-G4

