



October 30, 2018

Keith Morell
Dexter Construction Company Limited
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Bedford, NS, B4A 3Z2
(By Email: kmorell@dexter.ca)

**Subject: Geotechnical Pad Report
Lot 208 Brunello Boulevard, Brunello Estates, Phase 2.1, Timberlea, NS**

Mr. Morell,

As requested, WSP Canada Inc. (WSP) has carried out geotechnical inspection services during placement of engineered fill at the above-mentioned site. The purpose of the work was to monitor and evaluate construction methods during placement and compaction of structural fill beneath proposed building foundations.

PROJECT BACKGROUND

It is understood that Lot 208 will accommodate a wood-framed residential structure with slab-on-grade basement floor. The proposed structure will consist of conventional design and will measure 26 metres by 50 metres in maximum plan dimensions. The proposed basement floor elevation for Lot 208 is 92.15 metres, geodetic datum (ATS 77) and is shown on the enclosed Figure 1.

Surveying of the as-builts (as shown on attached figure 1) was conducted by Dexter Construction Company Limited.

The existing grades on Lot 208 were generally lower than proposed design grades. Subexcavation of organic soils, followed by placement and compaction of select rock fill was required to reach proposed design grades.

INSPECTION SUMMARY

Field inspection was generally carried out during the spring and summer of 2018. Construction of the engineered pad included subexcavation of organic soils, followed by placement and compaction of select portions of on-site processed rock and/or imported fill. The fill was placed in 300 mm to 450 mm thick lifts and compacted with several passes of a large vibratory drum roller. The fill was placed to an approximate average elevation of 91.85 metres. WSP personnel were on-site periodically to monitor construction methods during structural fill placement.

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SUMMARY

Based on our field inspections, we are of the opinion that generally good construction methods were practiced during placement and compaction of engineered fill. WSP personnel were on-site during placement and compaction of engineered fill at Lot 208 Brunello Boulevard. In our opinion, the prepared structural fill will support the proposed residential structure with only tolerable settlements anticipated.

RECOMMENDATIONS

Additional fill placed at the site (i.e. wall backfill, underslab base course, interior fill, etc.) is to be prepared using similar methods above for placement of engineered fill.

The engineered pad has been prepared for a structure measuring 26 metres x 50 metres in maximum plan dimensions, as indicated on the enclosed Figure 1. Any changes or relocation with the structure on the lot should be certified by a geotechnical engineer.

Any disturbance to the prepared lot as a result of freeze/thaw, vegetation growth, construction traffic, erosion, etc., would require that the lot be re-inspected by qualified geotechnical personnel prior to placement of concrete foundations.

This letter is based on our inspections conducted to date at the completion of site grading work. If site conditions differ at time of building construction, we require immediate notification to permit reassessment of our recommendations.

If you have any questions regarding the enclosed information, please contact the undersigned at your convenience.

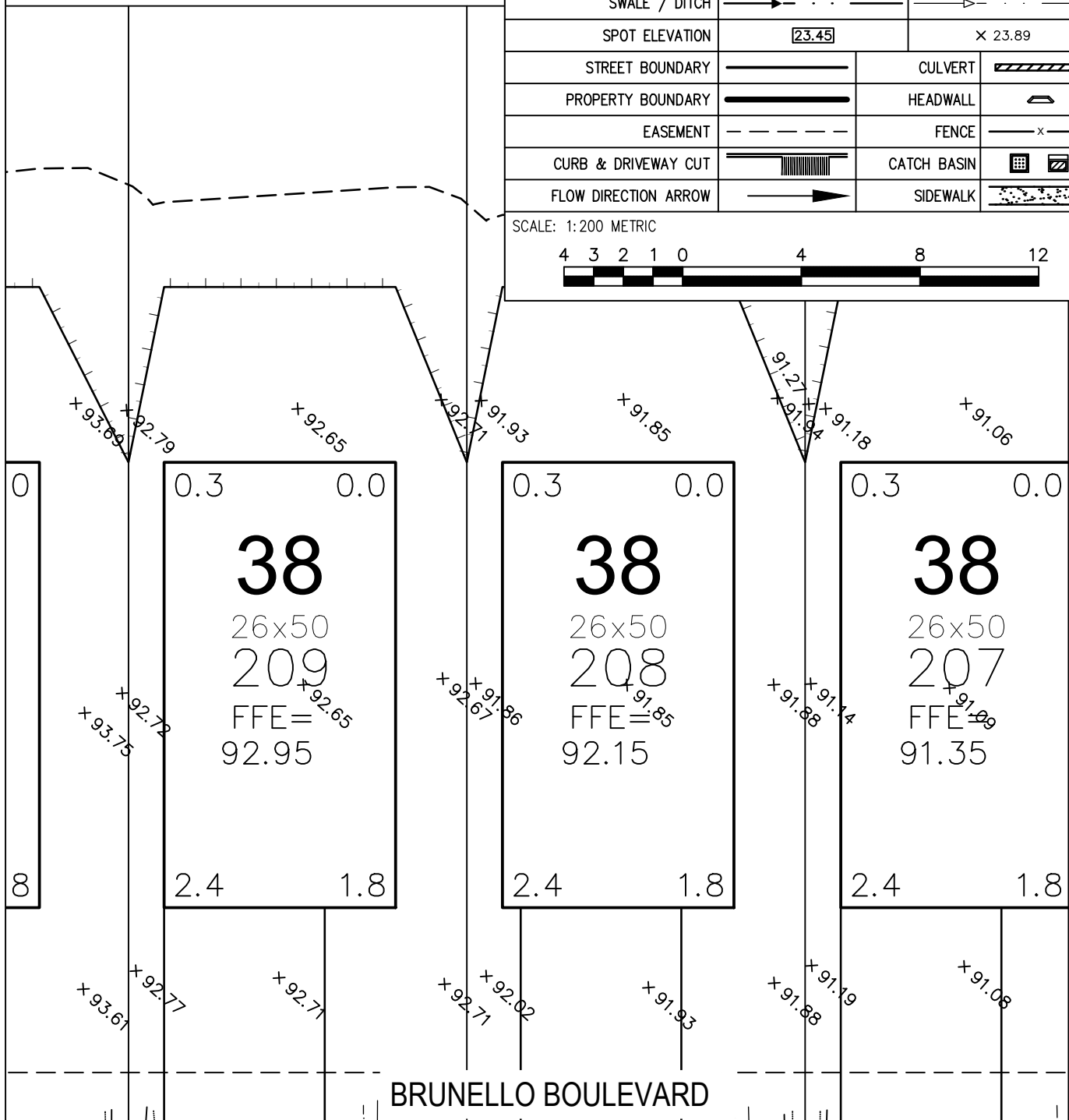
Yours truly,

A handwritten signature in black ink, appearing to read 'T Elson'.

Taylor Elson, P.Eng.
Project Geotechnical Engineer

WSP ref.: 181-01557

| LEGEND: | PROPOSED | EXISTING |
|----------------------|--------------|-------------|
| EDGE OF PAVEMENT | | |
| LOTLINE | | |
| BOTTOM OF SLOPE | | |
| TOP OF SLOPE | | |
| SWALE / DITCH | | |
| SPOT ELEVATION | <u>23.45</u> | x 23.89 |
| STREET BOUNDARY | | CULVERT |
| PROPERTY BOUNDARY | | HEADWALL |
| EASEMENT | | FENCE |
| CURB & DRIVEWAY CUT | | CATCH BASIN |
| FLOW DIRECTION ARROW | | SIDEWALK |



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TITLE:
**BRUNELLO ESTATES
 PHASE 2**
LOT 208, BRUNELLO BLVD

SCALE:
1:200
 DATE: (YYYY/MM/DD)
 2018/10/30
 PROJECT NO:
 181-01557

REVISION:
 0
 DRAWING NO:
 Fig 1.

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