GeoStructures
AND INFRASTRUCTURE MANAGEMENT INC.

May 15, 2025, Reference No. 2025-0515

Mr. Ravinder Sidhu,
563 Townline Road
Puslinch, ON, N0B 2J0

Dear Mr. Sidhu,

Re: Geotechnical and Geoenvironmental Consulting Services for Large Site Alteration Permit Application, 563 Townline Road, Puslinch, Ontario

Further to your request, GeoStructures and Infrastructure Management Inc. (GIM) along with its Partner at PNJ Engineering (PNJ) has prepared responses to the comments from Grand River Conservation Authority (GRCA), GRIT Engineering, and Trace Associates for the permit application for major site alteration application for the proposed construction at 563 Townline Road, Puslinch Ontario (Site).

The proposed workplan and documents are attached with this letter for submission.

The responses are prepared based on the meeting between all the parties on April 23rd, 2025. During the meeting the comments were discussed, and it was decided that a proposed workplan will be prepared and submitted to the City and GRCA for approval. Based on the review of the proposed workplan, further actions will be taken.

Please do not hesitate to contact us should any questions arise.

Sincerely,

[redacted]

Hassan Ali

Attachments:
Attachment A – Proposed Workplan and responses to comments
Attachment B – Documents for Fill imported to Site

Proposed Work Plan

563 Townline Road, Puslinch, Ontario

Prepared for:

GeoStructures and Infrastructure Management Inc.

PNJ Project No:

25-1137-02

PNJ ENGINEERING INC.

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Toronto, Ontario, M9W 4Y6
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TABLE OF CONTENTS

1 INTRODUCTION 1
2 RESPONSE TO COMMENTS 1
3 WORK PLAN SUMMARY 7
4 REFERENCE 8

APPENDICES

Supplemental Information **APPENDIX A**

1 INTRODUCTION

PNJ Engineering Inc. (PNJ) was retained by GeoStructures and Infrastructure Management Inc. (GIM) to review and assist in preparing the response to the comments provided by the Grand River Conservation Authority (GRCA) to the Township of Puslinch under the cover letter dated February 20. 2025, referencing the "*Major Site Alteration Permit Application, 563 Townline Road, Puslinch*", addressed to Ravindra Singh Sidhu. This letter was issued in response to the site alteration permit application for the property located at 563 Townline Road, Puslinch, Ontario (the Site).

The February 20, 2025, letter from the GRCA contained the following attachments:

- *"Large Site Alteration Permit Application Review, 563 Townline Road, Puslinch, ON N0B 2J0*", dated February 20, 2025, and prepared by GRIT Engineering Inc. (GRIT).
- *"Review of Site Alteration Permit Application for 563 Townline Road, Township of Puslinch, Ontario",* Trace File No. 900-0434-01, dated February 19, 2025, and prepared by Trace Associates Inc. (Trace).

These documents include a series of comments that required addressing. PNJ has reviewed the documents and generated a set of response to comments.

2 RESPONSE TO COMMENTS

This section contains the comments and PNJ's responses (where applicable). The comments have been split up as they are from three separate organizations i.e., GRCA, GRIT and Trace.

Comments from GRCA:

Comment Number 1*: The GRCA believes that grading has occurred within GRCAs regulated area, which would not be in conformance with the submitted site plans which demonstrates a 100-foot setback to the wetlands or GRCA Permit # 120/20. Therefore, the GRCA recommends deferral of the application to allow the applicant to confirm that the grading is located outside of GRCAs regulated area and in compliance with their previously approved permit.*

Response: Members of the GRCA team visited the property, dated April 26, 2025 and informed that an official report will be sent. This report has yet to be received and additional alteration permit request will be initiated based on the report (GIM).

***Comment Number 2**: We note that GRCA Permit 120/20 for the construction of a house and installation of a septic system has expired. The applicant should submit a new permit to our office once the compliance related matters are resolved.*

Response: See response to Comment Number 1 (GIM).

Comments from GRIT:

***Comment Number 1**: Please provide details on how positive drainage will be maintained for surface flows travelling from the eastern limit of the site toward the dwelling. Ensure Lot Grading adheres to Sections 2.9, 5.0 and 9.2 of the MDS.*

Response: Grading Plan is prepared and submitted with this response letter. The grading plan is prepared by a licensed Engineer in the Province of Ontario. and will be submitted with the submission.

***Comment Number 2**: Please provide a Site Alteration and Fill Management Plan (SAFMP) illustrating the proposed work within the subject site. Refer to Section 5.3. (b).xii of the By-Law.*

Response: GIM will assist in the development of Site Alteration Plan (GIM). PNJ to assist in the development of the fill management portion of the SAFMP plan.

***Comment Number 3**: The septic system should be designed by a licensed design under the Ontario Building Code.*

Response: Noted. This comment is not part of the site alteration permit and is addressed in other submissions (GIM).

***Comment Number 4:** The purpose of the provided 'SCR-ESA' report is unclear, as a Soil Characterization Report and Environmental Site Assessment satisfy different Regulations. If the intention is to characterize soil from within the Project Area to be removed offsite, the report should generally be written following O.Reg. 406/19 and soil results compared to Excess Soil Quality Standards. If the intention is to assess the soil quality for the soil to remain onsite, this may be written in general accordance with CSA Z769-00 standard, and soil results should be compared to Site Condition Standards.*

Response: PNJ suggests that the next stage of sampling be compliant with O.Reg. 406/19 apart from the area of identified impacts. That location should be assessed and delineated as per O.Reg. 153/04.

Based on supplement information provided regarding the fill location, thickness and approximate volume, it was determined that that 591 m^3 of fill material was imported and placed across the Site. The supplemental information used to make this determination is included as an attachment in Appendix A. Therefore, the total number of samples required are 3 samples plus one duplicate and 3 mSPLP samples in order to be in compliance with the regulation. It should be noted that the previous Fortis Environmental reported dated December 12, 2024, includes two soil samples that meet the applicable Table 2.1 Excess Soil Quality Standards as per O.Reg. 406/19 (Table 2.1 Standards). Therefore, two additional samples plus a duplicate should be collected at the Site. It should be noted here that information has been provided in regarding the origin and history of the source material (Nelson Waynco Ltd. in Cambridge, Ontario). Therefore, an extensive background study of the source site is not required. However, it is recommended that prior to collecting the samples for laboratory analysis, a series of shallow test pits (between 4 – 5 test pits) should be conducted at the Site for field screening/QA-QC purposes. Screening should include a visual inspection of the soils till the top of the native material, collection of soil vapour readings (using a PID or RKI Eagle or similar equipment) and making note of any olfactory or visual signs of impacts. The additional soil samples should be selected for laboratory analysis based on the field screening. The additional soil samples should be submitted for analysis for the following parameters: PHCs (F1-F4), BTEX, VOCs, PAHs metals and hydride-forming metals, SAR, EC, and pH.

Comment Number 5*: As per O. Reg. 406/19, three samples collected satisfy the production of up to 600 m3 of excess soil generated from the Project Area. If the volume of excess soil increases, further sampling will need to be conducted. Additionally, if greater than 350 m3 of excess soil is produced, leachate analyses must be completed on a frequency identified in O. Reg. 406/19. Exceedances were reported in the results provided that exceeded Residential Table 2.1 Standards. Please provide commentary on the suitability of the soil to remain onsite from a licensed QP.*

Response: PNJ has addressed this in the previous comment. It is suggested that the 3 mSPLP samples be collected during the next stage of sampling to be compliant with O.Reg. 406/19.

The location of the exceedance will be resampled and tested for PHCs (as the exceedances were for PHCs). This will also facilitate the verification of the exceedance. If it is found that the exceedance is verified, the area will be delineated, and a remediation plan will be prepared and implemented as per O.Reg. 153/04.

Comment Number 6*: Sampling should be representative of the maximum concentration of a contaminant based on considerations of evidence of the presence of a contaminant and maximum concentrations measured using field screening equipment or any other field screening means (i.e. should not be conducted 'randomly' as per page 4 of the SCR-ESA report).*

Response: As mentioned in the response to comment number 4, field screening will be conducted for QA-QC purposes. An extensive field program for this purpose is not required as the source of the fill material is known and document (see Appendix A).

Comment Number 7*: No compaction or onsite fill monitoring reports were submitted. Ensure site alterations comply with Section 7.1 of the By-Law concerning geotechnical testing and evaluation. If a structure is to be built on the fill, it must be placed, observed and tested by a licensed geotechnical engineer who will certify it as a structural fill suitable for the design loading.*

Response: As per the on going work at the site, no structure will be constructed on the fill. Therefore, no compaction test report is required (GIM).

Comment Number 8*: Please confirm with the SAFMP if the existing topsoil and vegetation area will be removed before placing the fill material. Include Restoration, Erosion and Sediment Control notes and measures. Please provide a tree protection plan.*

Response: This has been addressed in the updated Grading Plan. See attached Grading plan (GIM).

Comment number 9*: GRCA should confirm whether any work is within their regulated area and whether permits are required*

Response: Separate GRCA permit is in process.

<u>Comments from Trace:</u>

Comment Number 1*: The Application does not include all the required information or data that is specified in Section 5.2 (b) of the Site Alteration By-law.*

Response: All the required data are added with this response letter (GIM).

Comment Number 2: *The limited soil quality data indicated that the quality of the excess soil brought to the subject property does not meet the applicable Table 2.1 ESQS.*

Response: In addition to further testing, it is recommended that the location of the exceedance will be resampled and tested for PHCs (as the exceedances were for PHCs). This will also facilitate the verification of the exceedance. If it is found that the exceedance is verified, the area will be delineated, and a remediation plan will be prepared and implemented as per O.Reg. 153/04.

Comment Number 3: *The Application should be updated to include the required information or data that is specified in Section 5.2 (b) of the Site Alteration By-law.*

Response: All the required data are added with this response letter (GIM).

Comment Number 4: *The Application must include the required confirmation made by the Qualified Person (QP).*

Response: PNJ agrees with this comment. The field planning and implementation will be supervised by a QP. Additionally, the preparation of a report which includes the results of the sampling and analysis will be reviewed and signed by a QP. This includes both the remedial excavation and the additional soil sampling and testing to bring to the project in compliance with O.Reg. 406/19. PNJ will designate their senior QP for this task.

Comment Number 5: *The source and the actual volume of excess soil brought to the subject property should be identified, verified and documented.*

Response: As previously noted, the information including in Appendix A has stated the origin and history of the source material (Nelson Waynco Ltd. in Cambridge, Ontario). This additional information has also informed the amount of excess soil that has been imported. Therefore, it is PNJ's position that an extensive background study of the source site is not required.

Comment Number 6: *Based on the estimated total volume of excess soil that has reportedly already been brought to the subject property, being approximately 2,614 m3, per the soil rules, a minimum of 14 soil samples plus two quality assurance/quality control (QA/QC) must be collected for laboratory analyses of PHC(F1-F4), BTEX, VOCs, PAHs metals and hydride-forming metals, SAR, EC, pH, and any other contaminants of potential concern (COPCs) identified by the QP at the source site from which the excess soil originated.*

Response: PNJ agrees with this suggestion. Additional field work will be conducted including additional sampling and testing to bring the soil study into compliance with O.Reg. 406/19 as mentioned in our response to previous comments. It is also suggested that the areas of identified impacts be verified and if required further assessed and delineated following which remediation should be completed in accordance with O.Reg. 153/04 for that area of impacts. The actual number of soil samples will be based on the initial delineation sampling results and field screening.

Comment Number 7: *Based on the estimated total volume of excess soil that has reportedly already been brought to the subject property, being approximately 2,614 m3, minimum of five samples should be submitted for leachate analysis following the requirement of Soil rules.*

Response: PNJ agrees with this suggestion. However, based on the information provided and included in Appendix A, the number of mSPLP samples required is 3. Hence, a minimum of 3 mSPLP samples will be collected and submitted for laboratory analysis.

Comment Number 8: *Any additional excess soil to be brought as part of the site alteration project must be sampled per items 4 and 5 above.*

Response: PNJ agrees with this suggestion. Future sampling and analysis will be conducted as per O.Reg. 406/19 in terms of number of samples and the laboratory analysis.

Comment Number 9:

As stated in the Site Alteration By-law, the soil quality must meet the applicable Ministry ESQS. Based on the reported final placement of excess soil being more than 30 metres from a water body, as well as the setting (in an area where groundwater is used as a source of potable groundwater), and the use (residential) of the subject property, the excess soil brought to the subject property must meet Table 2.1 Full Depth ESQS in a Potable Ground Water Condition. However, any excess soil finally placed on-site within 30 metres from a water body must meet Table 8.1 Full Depth ESQS for Use within 30 metres of a Water Body in a Potable Ground Water Condition.

Alternatively, the excess soil brought to the subject property must meet the site-specific standards derived using the Beneficial Reuse Assessment Tool (BRAT) or a risk assessment completed following the requirements of Ontario Regulation 153/04, as amended.

Response: PNJ agrees with this suggestion. Future sampling and analysis will be conducted as per O.Reg. 406/19 in terms of number of samples and the laboratory analysis. The additional sampling locations should include locations within the area where soil was placed within 30 m of the water body. The results of the testing from these locations should

be compared to the appropriate table i.e., Table 1 Standards and/or Table 8.1 Full Depth for Use within 30 m of a water body in a Potable Ground Water Condition.

3 WORK PLAN SUMMARY

In summary, the proposed work plan for the soil sampling and analytical testing will be as follows:

- Perform field screening and QA/QC of the fill material via test pits up to depths of approximately to the top of native material. The soil collected from the test pits would be inspected for olfactory/visual evidence of impacts and soil vapor readings would be collected using a RKI Eagle or similar equipment.
- Re-sample the location of FBH102 and tested for PHCs only (as the remaining parameters met their Table 2.1 Standards).
- If the sample fails again, delineation will be completed following which a remediation plan will be developed.
- Collect two additional samples plus one duplicate and submit these samples for PHCs (F1-F4), BTEX, VOCs, PAHs metals and hydride-forming metals, SAR, EC, pH
- One of the proposed samples should be collected from the regulated area and submitted for the same analyses. These results should be compared to Tables 1 and 8.1 for this location (we should verify that they placed soil in the area within 30 m of the water body as the supplemental information seems to indicate).
- Collect and submit 3 mSPLP samples.
- Preparation of a soil characterization report.

Prepared by:

[redacted]

[redacted]

Sajjad Din, M.Sc., P.Geo., QP$_{ESA}$
Senior Geoscientist – Qualified Person

Abid Sahi., M.A.Sc., P.Geo., P.Eng., QP$_{ESA}$
Principal - Manager Geotechnical & Geoenvironmental Services

4 REFERENCE

- *"Soil Characterization Report ESA, 563 Townline Road, Puslinch, Ontario*", dated December 12, 2024, Job No. F199512006, prepared for Ravinder Singh Sidhu, and prepared by Fortis Environmental

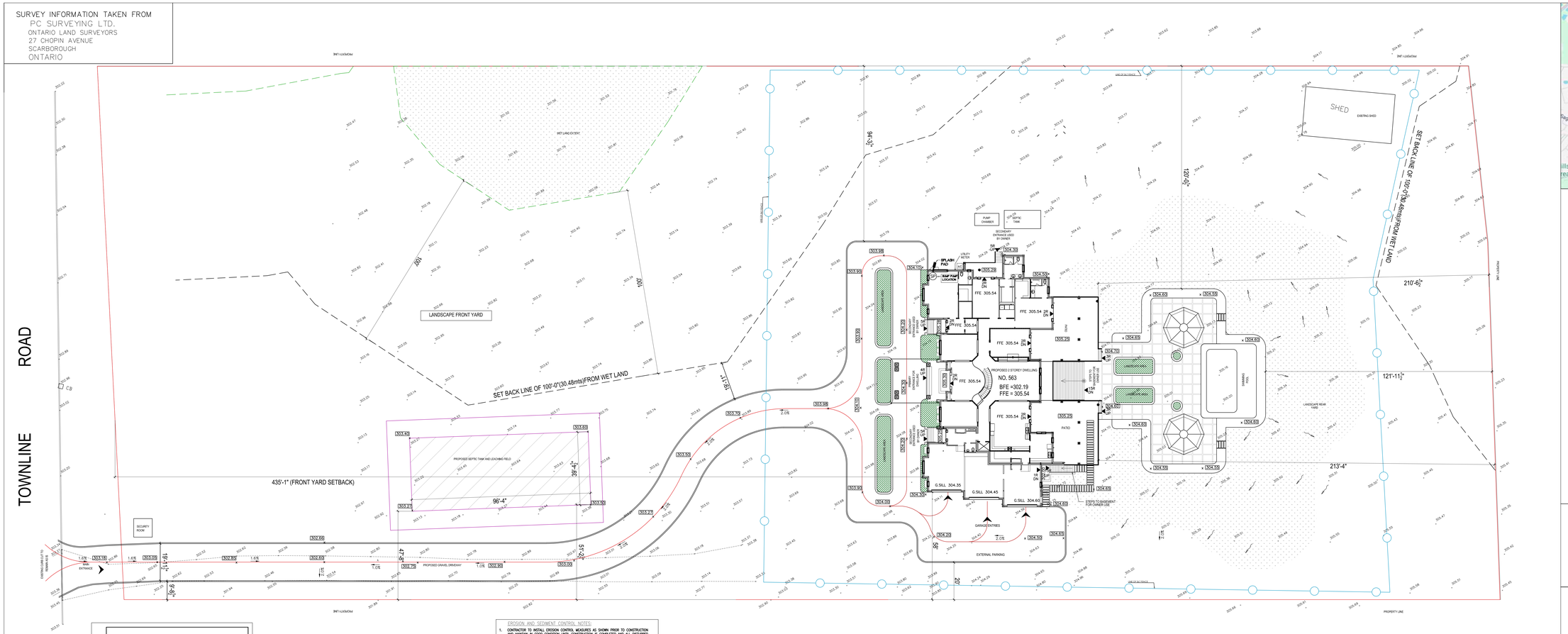
- Grand River Conservation Authority letter dated February 20, 2025, referencing the "*Major Site Alteration Permit Application, 563 Townline Road, Puslinch*", addressed to Ravindra Singh Sidhu

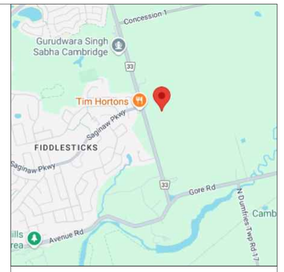
APPENDIX A

Supplemental Information

GRADING PLAN

SURVEY INFORMATION TAKEN FROM
PC SURVEYING LTD.
ONTARIO LAND SURVEYORS
27 CHOPIN AVENUE
SCARBOROUGH
ONTARIO





GRADING CRITERIA

1.) THE INTENT OF THE EXISTING DRAINAGE PATTERN IN THE AREA OF THE SITE SHOULD BE MAINTAINED.

2.) SIDE YARDS SHOULD BE DRAINED AT SURFACE SLOPES NOT LESS THEN 2%. TO ENSURE THEY SHOULD POSITIVE DRAINAGE OUTLETS CONNECTED TO PUBLIC DRAINAGE SYSTEMS, OR IF NECESSARY TO PROPOSED POSITIVE DRAINAGE

3.) DRAINAGE SWALE LONGITUDINAL SLOPES SHOULD NOT BE LESS THAN 2.0%

4.) TERRACE AND DRAINAGE SWALE SIDE SLOPES SHOULD NOT EXCEED 33%

5.) ELEVATIONS AT THE PROPERTY LINE FRONTING THE STREET SHOULD BE SUCH THAT THE AVERAGE SLOPE DOWN TO THE TOP OF ROADWAY CURB SHOULD BE BETWEEN 2% AND 6%

6.) REAR YARD SLOPE SHOULD NOT EXCEED 5% EXCEPT WHERE EXISTING GRADES ARE NOT BEING ALTERED.

7.) DURING CONSTRUCTION, SILTATION CONTROL METHODS SHOULD BE USED AROUND THE LOT PERIMETER IN ORDER TO PREVENT EROSION OR SILTATION ON ADJACENT PROPERTIES.

8.) IN COMPLIANCE WITH 9.14.E.1. OF THE ONTARIO BUILDING CODE THE SITE IS DESIGNED SO THAT WATER WILL NOT ACCUMULATE AT OR NEAR THE BUILDING UNDER CONSTRUCTION AND WILL NOT ADVERSELY AFFECT ANY ADJACENT PROPERTIES.

9.) IN COMPLIANCE WITH SUBSECTION 9.26.18.2. OF THE ONTARIO BUILDING CODE, WHERE STORM SEWER IS NOT AVAILABLE TO WHICH DOWN SPOUTS MAY BE CONNECTED, PROVISIONS SHALL BE MADE TO PREVENT SOIL EROSION.

10.) COVERED SUMP WITH AN AUTOMATIC PUMP SHALL BE INSTALLED TO DISCHARGE WATER FROM FOUNDATION DRAINS, OVERLAND TO CATCH BASIN CONNECTED TO A STORM SEWER LOCATED WITHIN PUBLIC RIGHT OF WAY OR TO A DRAINAGE DITCH OR DRYWELL AS PER ARTICLE 9.14.5.2-3 OF THE ONTARIO BUILDING CODE.

NOTE: TOP OF FOUNDATION WALL ELEVATION MINIMUM 0.15 METRES ABOVE HIGHEST GRADE. REFER TO ARCHITECTURAL PLANS FOR FOUNDATION WALL DESIGN.

BENCHMARK NOTE

ELEVATIONS SHOWN HERE BASE ON GPS OBSERVATIONS FROM PERMANENT REFERENCE STATIONS IN THE NAD83 (CSRS-2010) COORDINATE SYSTEM, WITH HEIGHT CONVERTED TO ORTHOMETRIC ELEVATIONS ON THE COVD28 DATUM (1978 ADJUSTMENT WITH GEOID MODEL HTv2.0, AS SUPPLIED BY NATURAL RESOURCES CANADA.

THE FIELD OBSERVATIONS REPRESENTED ON THIS PLAN WERE COMPLETED ON THE 23RD DAY OF NOVEMBER , 2024

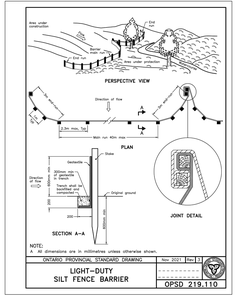
GRADING CONSULTANT APPROVAL

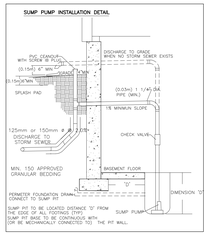
I HAVE REVIEWED THE PLANS FOR THE CONSTRUCTION OF A PROPOSED TWO STOREY DWELLING LOCATE AT 563 TOWNLINE ROAD, TOWNSHIP OF PUSLINCH AND HAVE PREPARED THIS PLAN TO INDICATE THE COMPATIBILITY OF THE PROPOSAL WITH ALL ADJACENT PROPERTIES, IT IS MY BELIEF THAT ADHERENCE TO THE PROPOSED ELEVATIONS AND GRADIENTS AS SHOWN WILL PRODUCE ADEQUATE SURFACE DRAINAGE WITHOUT DETRIMENTAL EFFECT TO THE EXISTING DRAINAGE PATTERNS OF ADJACENT PROPERTIES.

[redacted]

DRAWING TITLE:
PROPOSE GRADING

PROJECT NAME:
563 TOWNLINE ROAD
TOWNSHIP OF PUSLINCH, ONTARIO.





EROSION AND SEDIMENT CONTROL NOTES:

1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER.
2. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
3. ALL SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRADING WORKS. SEDIMENT CONTROLS MUST BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAINFALL EVENT. REPAIRS MUST BE DONE IN A TIMELY MANNER TO PREVENT SEDIMENT FROM ENTERING THE WATER.
4. ALL AREAS WHICH WILL REMAIN DISTURBED FOR MORE THAN 30 DAYS BE STABILIZED.
5. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES IF APPLICABLE. ALL STOCKPILES TO BE KEPT 2.5 METERS MINIMUM FROM PROPERTY LINE.
6. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MANHOLES AND CATCH BASINS.
7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURAL.
8. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
9. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND TOWN'S DEVELOPMENT AND TECHNICAL SERVICES DEPARTMENT.
10. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
11. CONTRACTOR TO MAINTAIN FILTER FABRIC FENCE UNTIL VEGETATION HAS BEEN ESTABLISHED ON ALL EXPOSED SOILS WITHIN CATCHMENTS AREA.
12. ANY SEDIMENT THAT IS TRACKED ONTO THE ROAD WAY OR NEIGHBORING PROPERTIES DURING THE COURSE OF CONSTRUCTION WILL BE CLEANED BY THE CONTRACTOR.
13. ALL STORM DRAINAGE IS TO BE SELF-CONTAINED ON THE OWNER'S LAND.
14. INSTALL SILT FENCE AROUND PROPERTY LINE. SEE DETAILS ON DRAWING OPSD 219.110 (TYPICAL)

MAINTENANCE RECOMMENDATIONS

1. REMOVE SEDIMENT AND CONTAMINANTS MANUALLY AND REINSTATE STORM WATER MANAGEMENT FACILITY ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN.
2. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.
3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO TOWN'S REQUIREMENTS.

LEGEND

F.F.E	DENOTES FINISHED FLOOR ELEVATION
T.O.W	DENOTES TOP OF FOUNDATION ELEVATION
B.F.E	DENOTES BASEMENT SLAB ELEVATION
U.S.F	DENOTES UNDERSIDE OF FOOTING ELEVATION
INV.	DENOTES INVERT ELEVATION
H.P.	DENOTES HIGH POINT ELEVATION
R	DENOTES RISER
DN	DENOTES DOWN
UP	DENOTES UP
W.O.B.	DENOTES WALKOUT BASEMENT
BRW	DENOTES BOTTOM OF RETAINING WALL
TRW	DENOTES TOP OF RETAINING WALL
STM	DENOTES STORM SEWER
SAN	DENOTES SANITARY SEWER
76.00	DENOTES PROPOSED ELEVATION
+ 175.95	DENOTES EXISTING ELEVATION
+ 175.95	DENOTES EXISTING ELEVATION TO REMAIN
76.10	DENOTES ESTABLISHED GRADE
	DENOTES DRAIN WATER LEADER
	DENOTES DRAIN AREA
SP	DENOTES SUMP PUMP
	DENOTES DIRECTION OF FLOW
AC	DENOTES AIR CONDITIONER
BF	DENOTES BIBB FAUCET
CB	DENOTES CATCH BASIN
CLF	DENOTES CHAIN LINK FENCE
CONC	DENOTES CONCRETE
CT	DENOTES CONIFEROUS TREE
DT	DENOTES DECIDUOUS TREE
INV	DENOTES INVERT
ICV	DENOTES INTERLOCKING CONTROL VALVE
LS	DENOTES LIGHT STANDARD
MH	DENOTES MANHOLE
DBV	DENOTES DRIVERT
STRW	DENOTES STONE RETAINING WALL
—OH—	DENOTES OVERHEAD HYDRO

NOTE:-

CONTRACTOR/BUILDER
IS RESPONSIBLE FOR CONFIRMING ALL EXISTING GRADES AND ELEVATIONS, THE LOCATION OF ALL EXISTING SERVICES AND UTILITIES, AND THE INVERT ELEVATIONS OF ALL SERVICE CONNECTIONS BEFORE TO CONSTRUCTION. ANY DISCREPANCY SHOULD BE REPORTED IMMEDIATELY TO THE UNDERSIGNED.

CAUTION
1. THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED FOR MORTGAGE OR TRANSACTION PURPOSES.
2. EXISTING SANITARY AND STORM INVERT TO BE CONFIRMED PRIOR TO CONSTRUCTION.
3. ARCHITECT TO CHECK THE ZONNING AND SETBACKS AND ELEVATIONS.
4. ARCHITECT TO CONFIRM DESIGN CONFORMS WITH ARCHITECTURAL PLANS.
5. THE EXISTING STORM AND SANITARY SERVICE LATERAL MUST BE INSPECTED AT THE PROPERTY LINE BY THE BUILDER AND THE INVERT ELEVATION MUST BE VERIFY BEFORE DO ANY EXCAVATION MINIMUM 2.0ft FALL REQUIRED. OTHERWISE SUMP PUMP AND SEWER EJECTOR TO BE INSTALLED BY THE BUILDER.

SCALE 1:200
10m 5 0 10 METRES
JEY CONSULTING INC. ©

OWNERS NAME:-
ADDRESS:- 563 TOWNLINE ROAD
TOWNSHIP OF PUSLINCH
ONTARIO

No:	DATE:-	REVISION
1	MAY 14 2025	1st SUBMISSION TO THE OTY

JEY CONSULTING INC.
93 EASTVALE DRIVE
MARKHAM, ONTARIO, L3S 4S9
PHONE: 416-526-0062 Email: jey_eng@hotmail.com

DRAWN BY: S.J | CHECKED BY: S.J | CAD NUMBER: 25-010GP | JOB NUMBER: 25-010 | DRAWING No.: P2
SCALE 1:200

IMPORTED FILL DOCUMENTATION

Peto MacCallum Ltd.
CONSULTING ENGINEERS

April 8, 2024

PML Ref.: 23HM004
Report: 20

Ms. Laura Fowler
Nelson Aggregate Co.
PO Box 1070
Burlington, Ontario
L7R 4L8

Dear Ms. Fowler

Laboratory Testing of Aggregates
19 mm Crushed Gravel Granular A
Nelson Waynco Pit 1
Cambridge, Ontario

We are pleased to submit the results of the laboratory testing performed on a 19.0 mm crushed gravel Granular A sample delivered to our Hamilton laboratory on October 30, 2023. It is our understanding that the sample was collected at the Nelson Waynco Stuehler Pit 1.

The sample has been tested to determine the suitability as Granular A in accordance with OPSS.PROV 1010, rev 04/2013 and OPSS.MUNI 1010, rev 11/2013, Material Specification for Aggregates – Base, Sub-base, select subgrade and backfill material.

The results of the gradation and physical tests, which are detailed on Enclosures 1 to 5 have been compared to the appropriate OPSS Granular A material requirements. The tested sample of Granular A meets the specified physical requirements for the properties tested.

Should you require any additional information, please do not hesitate to contact this office.

Sincerely,

Peto MacCallum Ltd.

[redacted]

Amjad Khan, B.Eng.
Supervisor, Building Science and
Laboratory Services

Enclosure(s): 5

1 cc: Nelson Aggregate Co. (via email)

45 Burford Road, Hamilton, Ontario L8E 3C6
Tel: (905) 561-2231 Fax: (905) 561-6363
E-mail: hamilton@petomaccallum.com
BARRIE, HAMILTON, KITCHENER, TORONTO

Peto MacCallum Ltd.
CONSULTING ENGINEERS

PHYSICAL TEST RESULT SUMMARY
GRANULAR AGGREGATE

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	20
LOCATION	Cambridge, Ontario	ENCLOSURE	1
MATERIAL TYPE	19.0 mm crushed gravel	SAMPLE NO.	2351094
INTENDED USE	OPSS.PROV 1010 Granular A	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	DATE SAMPLED	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	DATE RECEIVED	October 30, 2023

LABORATORY TEST	SAMPLE RESULT	REFERENCE MATERIAL RESULT	SPECIFICATIONS ① GRANULAR TYPE A	B TYPE I & III	B TYPE II	MEETS SPEC. (Y/N)
COARSE AGGREGATE						
Percent Crushed Particles, % minimum, LS-607	85	--	60	--	100	Y
Micro-Deval Abrasion, % maximum loss, LS-618	9.1	13.2	25	30 ②	30	Y
Asphalt Coated Particles, % maximum, LS-621	0	--	30	30	0	Y
Amount of Contamination, LS-630	No Contamination (See enclosure 3)	--	Granular A and B Type I & III may contain up to 15% by mass crushed glass or ceramic material or both. Granular A and B Type I & III shall not contain more than 1.0% by mass of any combination of wood, clay brick, gypsum, gypsum wall board, or plaster. Granular B Type II shall not contain more than 0.1% by mass of wood.			Y
FINE AGGREGATE						
Micro-Deval Abrasion, % maximum loss, LS-619	15.0	14.2	30	35	35	Y
Plastic Fines, LS-631 ③	NP	--	Non-Plastic (NP)	Non-Plastic (NP)	Non-Plastic (NP)	Y
Plasticity Index, maximum, LS-703/704 ④	--	--	0	0	0	
Determination of Permeability, k, LS-709	--	--	For materials north of the French/Mattawa River only, the coefficient of permeability, k shall be greater than 1.0×10^{-4} cm/s or alternatively, when past field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for k shall be acceptable providing that such testing has been done within 5years of the material being used and field performance has continually been shown to be satisfactory.			

NOTES:
1. OPSS.PROV 1010, Table 2 & 3 (April 2013) and OPSS.MUNI 1010, Table 1 (November 2013).
2. Micro-Deval abrasion loss test requirements will be waived if the material has more than 80% passing the 4.75 mm sieve.
3. Test requirement for OPSS.PROV 1010.
4. Test requirement for OPSS.MUNI 1010.

REMARKS:

CERTIFIED BY CCIL

Peto MacCallum Ltd.
CONSULTING ENGINEERS

GRANULAR AGGREGATE GRADATION REPORT

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	20
LOCATION	Cambridge, Ontario	ENCLOSURE	2
MATERIAL TYPE	19.0 mm crushed gravel	SAMPLE NO.	2351094
INTENDED USE	OPSS.PROV 1010 Granular A	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	DATE SAMPLED	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	TEST METHOD	LS-601/602

SIEVE SIZE	CUMULATIVE % PASSING	SPECIFICATIONS ①							MEETS SPEC. (Y/N)
		GRANULAR TYPE						SSM	
		O	A	B TYPE I ③	B TYPE II	B TYPE III ③	M		
150 mm	100			100		100		100	
106 mm	100				100				
37.5 mm	100	100							
26.5 mm	100	95-100	100	50-100	50-100	50-100		50-100	Y
19.0 mm	96.6	80-95	85-100 87-100 ④				100		Y
13.2 mm	80.4	60-80	65-90 75-95 ④				75-95		Y
9.5 mm	68.0	50-70	50-73 60-83 ④			32-100	55-80		Y
4.75 mm	47.3	20-45	35-55 40-60 ④	20-100	20-55	20-90	35-55	20-100	Y
2.36 mm	31.9								
1.18 mm	20.4	0-15	15-40	10-100	10-40	10-60	15-40	10-100	Y
600 µm	14.4								
300 µm	11.4		5-22	2-65	5-22	2-35	5-22	5-95	Y
150 µm	9.4							2-65	
75 µm	7.6	0-5	2-8 2-10 ⑤	0-8 0-10 ⑤	0-10	0-8 0-10 ⑤	2-8 2-10 ⑤	0-25	Y

NOTES:
1. OPSS 1010, Table 3.
2. Where Granular B is used for granular backfill for pipe subdrains, 100 percent of the material shall pass the 37.5 mm sieve.
3. Where RAP is included with Granular B Type I or Type III, 100 percent of the RAP shall pass the 75 µm sieve. Conditions in Note 2 supersede this requirement.
4. When the aggregate is obtained from an iron blast furnace slag source.
5. Where aggregate is obtained from a quarry or blast furnace slag or nickel slag source.
6. When Granular O is produced from boulders, cobbles, or gravel retained on the 50.0 mm sieve.

REMARKS:

CERTIFIED BY CCIL

Peto MacCallum Ltd.
CONSULTING ENGINEERS

CONTAMINATION OF COARSE AGGREGATE

CLIENT	Waynco Limited	*PML REF.*	23HM004
PROJECT	Waynco Pit Aggregate Testing	*REPORT*	20
LOCATION	Cambridge, Ontario	*ENCLOSURE*	3
MATERIAL TYPE	19.0 mm crushed gravel	*SAMPLE NO.*	2351094
INTENDED USE	OPSS.PROV 1010 Granular A	*SAMPLED BY*	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	*DATE SAMPLED*	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	*TEST METHOD*	LS-630

TYPE OF CONTAMINATION	RESULTS	SPECIFICATIONS (1)					SELECT SUBGRADE MATERIAL	MEETS SPEC. (Y/N)
		GRANULAR						
		A	B		M	O		
			TYPE I / TYPE III	TYPE II				
Glass and/or Ceramic Material, % maximum	0.0	*15*	*15*	--	*15*	--	--	Y
Deleterious Material, (wood, clay brick, gypsum, gypsum wall board, or plaster), % maximum	0.0	*1.0*	*1.0*	--	*1.0*	*1.0*	--	Y
Wood and Paper Contamination, % maximum	--	--	--	*0.1*	--	--	*0.1*	

CONTAMINATION		COMMENTS
TYPE	PERCENT	
Cardboard and Paper	0.0	
Wood	0.0	
Gypsum	0.0	
Cement Wall Board	0.0	
Clay Brick or Tile	0.0	
Glass	0.0	
Ceramic Material	0.0	
Rubber	0.0	
Metal	0.0	
Plastic	0.0	
(Other)	0.0	

NOTES: 1. OPSS.PROV 1010, Table 1 (April 2013) and OPSS.MUNI 1010 (November 2013).

REMARKS:

Peto MacCallum Ltd.
CONSULTING ENGINEERS

MOISTURE DENSITY RELATIONSHIP TEST REPORT

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	20
LOCATION	Cambridge, Ontario	ENCLOSURE	4
MATERIAL TYPE	19.0 mm crushed gravel	SAMPLE NO.	2351094
INTENDED USE	OPSS.PROV 1010 Granular A	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited., Stuehler Pit, Source No. C44-243	DATE SAMPLED	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	DATE RECEIVED	October 30, 2023
LAB TECHNICIAN	E. Truax	TEST METHOD	LS-706
LAB LOCATION:	Peto MacCallum Ltd., 45 Burford Rd., Hamilton, ON		

PROCTOR TEST RESULTS

TEST METHOD	ASTM D698-12 METHOD	☐ A	☐ B	☐ C
	ASTM D1557-12 METHOD	☐ A	☐ B	☐ C
	MTO LS-706 PROCEDURE	☐ A	☐ B	☑ C
	MTO LS-707 PROCEDURE	☐ A	☐ B	☐ C

MATERIAL RETAINED ON 19.0 mm SIEVE (%)	3.4
MATERIAL RETAINED ON 9.5 mm SIEVE (%)	--
MATERIAL RETAINED ON 4.75 mm SIEVE (%)	--
MOISTURE CONTENT, AS RECEIVED (%)	--
MAXIMUM WET DENSITY (kg/m^3)	2419
MAXIMUM DRY DENSITY (kg/m^3)	2243
OPTIMUM MOISTURE CONTENT (%)	7.8
CORRECTED MAXIMUM DRY DENSITY (kg/m^3)	--
CORRECTED OPTIMUM MOISTURE CONTENT (%)	--

PREPARATION METHOD USED: DRY ☑ MOIST ☐

SPECIFIC GRAVITY VALUES FOR OVERSIZE & FINE FRACTION USED FOR CALCULATIONS: 2.80

SPECIFIC GRAVITY METHOD OF DETERMINATION: ASSUMED ☑ MEASURED ☐

MORE INFORMATION IS AVAILABLE UPON REQUEST.

NOTES:

REVIEWED BY: _____

DATE ISSUED: _____

Ontario

Peto MacCallum Ltd.

AGGREGATE TEST DATA – GRANULARS
Physical Properties

Contract No.: --	Contractor: --	Contract Location: --	
Testing Laboratory: Peto MacCallum Ltd., Hamilton, ON.	PML Sample N.: 2351094	Telephone No.: (905) 561-2231	Fax No.: (905) 561-6363
Sampled by (Print Name): Waynco Limited		Date Sampled: (YY/MM/DD) 23/10/30	
Granular Type: Granular A crushed gravel	Lot No.: --	Quantity (tonnes): --	
Source Name/ Location: Waynco Limited, Stuehler Pit, Cambridge, Ontario		Aggregate Inventory Number (AIN):	C44-243

Laboratory Test and Number	Requirement						Test Result		
	Granular A	Granular B Type I, III	Granular B Type II	Granular M	Granular O	SSM	Reference Material	Sample	Meets Requirement (Y / N)
Freeze-Thaw Loss, % maximum, LS-614	–	–	–	–	15	–	--	--	
Micro-Deval Abrasion Loss, Coarse Aggregate, % maximum, LS-618	25	30 (Note 1)	30	25	21	30 (Note 1)	13.2	9.1	Y
Micro-Deval Abrasion Loss , Fine Aggregate, % maximum, LS-619	30	35	35	30	25	–	14.2	15.0	Y
Amount of Contamination, LS-630	Note 2							(Enclosure 3)	Y
Plastic Fines, LS-631	NP (Non-Plastic)							NP	Y
Determination of Permeability, *k*, LS-709	(Note 3)							--	

Note 1: The coarse aggregate micro-Deval abrasion loss test requirement shall be waived if the material has more than 80% passing the 4.75 sieve.

Note 2: Granular A, B Type I, B Type III, or M may contain up to 15 percent by mass crushed glass and/or ceramic material. Granular A, O, B Type I, B Type III, and M shall not contain more than 1.0 percent by mass of wood, clay brick and/or gypsum and/or gypsum wall board or plaster. Granular B Type II and SSM shall not contain more than 0.1 percent by mass of wood.

Note 3: For materials north of the French/Mattawa Rivers only, the coefficient of permeability, *k*, shall be greater than 1.0×10^{-4} cm/s or field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for *k*, shall be acceptable provided that such testing has been done within five years of the material being used and field performance has continually been shown to be satisfactory.

Issued by (Testing Laboratory Representative):

Amjad Khan, BEng	Amjad Saeed	Aprim 8, 2024
PRINT NAME	SIGNATURE	DATE

Received by (Contract Administrator Representative):

PRINT NAME	SIGNATURE	DATE

Copies to: ☐ Contract Administrator; ☐ Contractor; ☐ Regional Quality Assurance; ☐ Regional Geotechnical; ☐ MERO (Soils and Aggregates)

Peto MacCallum Ltd.
CONSULTING ENGINEERS

April 8, 2024

PML Ref.: 23HM004
Report: 23

Ms. Laura Fowler
Nelson Aggregate Co.
PO Box 1070
Burlington, Ontario
L7R 4L8

Dear Ms. Fowler

Laboratory Testing of Aggregates
53 mm Crushed Gravel Granular B Type II Modified
Nelson Waynco Pit 1
Cambridge, Ontario

We are pleased to submit the results of the laboratory testing performed on a 53.0 mm crushed gravel Granular B-II modified sample delivered to our Hamilton laboratory on October 30, 2023. It is our understanding that the sample was collected at the Nelson Waynco Stuehler Pit 1.

The sample has been tested to determine the suitability as Granular B-II in accordance with OPSS.PROV 1010, rev 04/2013 and OPSS.MUNI 1010, rev 11/2013, Material Specification for Aggregates – Base, Sub-base, select subgrade and backfill material.

The results of the gradation and physical tests, which are detailed on Enclosures 1 to 5 have been compared to the OPSS Granular B-II material requirements. The tested sample of Granular B-II modified meets the specified physical requirements for the properties tested except % crushed particles which appeared to be below the specified range.

It is noted that subject material is produced from a gravel pit source, whereas the OPSS 1010, specified Granular B-II should be produced from a quarry or talus.

Should you require any additional information, please do not hesitate to contact this office.

Sincerely,

Peto MacCallum Ltd.

[redacted]

Amjad Khan, B.Eng.
Supervisor, Building Science and
Laboratory Services

Enclosure(s): 5
1 cc: Nelson Aggregate Co. (via email)

45 Burford Road, Hamilton, Ontario L8E 3C6
Tel: (905) 561-2231 Fax: (905) 561-6363
E-mail: hamilton@petomaccallum.com
BARRIE, HAMILTON, KITCHENER, TORONTO

Peto MacCallum Ltd.
CONSULTING ENGINEERS

PHYSICAL TEST RESULT SUMMARY
GRANULAR AGGREGATE

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	23
LOCATION	Cambridge, Ontario	ENCLOSURE	1
MATERIAL TYPE	53.0 mm Crushed Gravel	SAMPLE NO.	2351095
INTENDED USE	MTO OPSS 1010 Granular B Type II (modified)*	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	DATE SAMPLED	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	DATE RECEIVED	October 30, 2023

LABORATORY TEST	SAMPLE RESULT	REFERENCE MATERIAL RESULT	SPECIFICATIONS ① GRANULAR TYPE A	B TYPE I & III	B TYPE II	MEETS SPEC. (Y/N)
COARSE AGGREGATE						
Percent Crushed Particles, % minimum, LS-607	70	--	60	--	100	N (Remarks)
Micro-Deval Abrasion, % maximum loss, LS-618	10.1	13.2	25	30 ②	30	Y
Asphalt Coated Particles, % maximum, LS-621	0	--	30	30	0	Y
Amount of Contamination, LS-630	No contamination (see enclosure)	--	Granular A and B Type I & III may contain up to 15% by mass crushed glass or ceramic material or both. Granular A and B Type I & III shall not contain more than 1.0% by mass of any combination of wood, clay brick, gypsum, gypsum wall board, or plaster. Granular B Type II shall not contain more than 0.1% by mass of wood.			Y
FINE AGGREGATE						
Micro-Deval Abrasion, % maximum loss, LS-619	15.4	14.2	30	35	35	Y
Plastic Fines, LS-631 ③	NP	--	Non-Plastic (NP)	Non-Plastic (NP)	Non-Plastic (NP)	Y
Plasticity Index, maximum, LS-703/704 ④	--	--	0	0	0	
Determination of Permeability, k, LS-709	--	--	For materials north of the French/Mattawa River only, the coefficient of permeability, k shall be greater than 1.0×10^{-4} cm/s or alternatively, when past field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for k shall be acceptable providing that such testing has been done within 5years of the material being used and field performance has continually been shown to be satisfactory.			

NOTES
1. OPSS.PROV 1010, Table 2 & 3 (April 2013) and OPSS.MUNI 1010, Table 1 (November 2013).
2. Micro-Deval abrasion loss test requirements will be waived if the material has more than 80% passing the 4.75 mm sieve.
3. Test requirement for OPSS.PROV 1010.
4. Test requirement for OPSS.MUNI 1010.

REMARKS
* OPSS.PROV 1010 specifies that aggregates for Granular B Type II shall only be produced from a quarry or from talus, iron blast furnace slag, or nickel slag. Sample supplied is from a gravel source and classified as a Granular B type II modified by client.

CERTIFIED BY CCIL

Peto MacCallum Ltd.
CONSULTING ENGINEERS

GRANULAR AGGREGATE GRADATION REPORT

CLIENT	Waynco Limited	*PML REF.*	23HM004
PROJECT	Waynco Pit Aggregate Testing	*REPORT*	21
LOCATION	Cambridge, Ontario	*ENCLOSURE*	2
MATERIAL TYPE	53.0 mm Crushed Gravel	*SAMPLE NO.*	2351095
INTENDED USE	MTO OPSS 1010 Granular B Type II (modified)*	*SAMPLED BY*	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	*DATE SAMPLED*	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	*TEST METHOD*	LS 601/602

SIEVE SIZE	CUMULATIVE % PASSING	SPECIFICATIONS ①							MEETS SPEC. (Y/N)
		GRANULAR TYPE						SSM	
		O	A	B TYPE I ③	B TYPE II	B TYPE III ③	M		
150 mm	100.0			100		100		100	
106 mm	100.0				100				Y
37.5 mm	99.1	100							
26.5 mm	84.0	95-100	100	50-100	50-100	50-100		50-100	Y
19.0 mm	69.3	80-95	85-100 87-100 ④				100		
13.2 mm	58.7	60-80	65-90 75-95 ④				75-95		
9.5 mm	49.1	50-70	50-73 60-83 ④			32-100	55-80		
4.75 mm	35.2	20-45	35-55 40-60 ④	20-100	20-55	20-90	35-55	20-100	Y
2.36 mm	24.6								
1.18 mm	16.7	0-15	15-40	10-100	10-40	10-60	15-40	10-100	Y
600 µm	11.2								
300 µm	8.2		5-22	2-65	5-22	2-35	5-22	5-95	Y
150 µm	6.5							2-65	
75 µm	5.1	0-5	2-8 2-10 ⑤	0-8 0-10 ⑤	0-10	0-8 0-10 ⑤	2-8 2-10 ⑤	0-25	Y

NOTES

1. *OPSS 1010, Table 3.*
2. *Where Granular B is used for granular backfill for pipe subdrains, 100 percent of the material shall pass the 37.5 mm sieve.*
3. *Where RAP is included with Granular B Type I or Type III, 100 percent of the RAP shall pass the 75 µm sieve. Conditions in Note 2 supersede this requirement.*
4. *When the aggregate is obtained from an iron blast furnace slag source.*
5. *Where aggregate is obtained from a quarry or blast furnace slag or nickel slag source.*
6. *When Granular O is produced from boulders, cobbles, or gravel retained on the 50 mm sieve.*

REMARKS * OPSS.PROV 1010 specifies that aggregates for Granular B Type II shall only be produced from a quarry or from talus, iron blast furnace slag, or nickel slag. Sample supplied is from a gravel source and classified as a Granular B type II modified by client.

CERTIFIED BY CCIL

Peto MacCallum Ltd.
CONSULTING ENGINEERS

CONTAMINATION OF COARSE AGGREGATE

CLIENT	Waynco Limited	*PML REF.*	23HM004
PROJECT	Waynco Pit Aggregate Testing	*REPORT*	23
LOCATION	Cambridge, Ontario	*ENCLOSURE*	3
MATERIAL TYPE	53.0 mm Crushed Gravel	*SAMPLE NO.*	2351095
INTENDED USE	MTO OPSS 1010 Granular B Type II (modified)*	*SAMPLED BY*	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	*DATE SAMPLED*	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	*TEST METHOD*	LS-630

TYPE OF CONTAMINATION	RESULTS	SPECIFICATIONS ①					SELECT SUBGRADE MATERIAL	MEETS SPEC. (Y/N)
		GRANULAR						
		A	B		M	O		
			TYPE I / TYPE III	TYPE II				
Glass and/or Ceramic Material, % maximum	--	*15*	*15*	--	*15*	--	--	
Deleterious Material, (wood, clay brick, gypsum, gypsum wall board, or plaster), % maximum	--	*1.0*	*1.0*	--	*1.0*	*1.0*	--	
Wood and Paper Contamination, % maximum	0.0	--	--	*0.1*	--	--	*0.1*	Y

CONTAMINATION		COMMENTS
TYPE	PERCENT	
Cardboard and Paper	0.0	
Wood	0.0	
Gypsum	0.0	
Cement Wall Board	0.0	
Clay Brick or Tile	0.0	
Glass	0.0	
Ceramic Material	0.0	
Rubber	0.0	
Metal	0.0	
Plastic	0.0	
(Other)	0.0	

NOTES: 1. OPSS.PROV 1010, Table 1 (April 2013) and OPSS.MUNI 1010 (November 2013).

REMARKS:
* OPSS.PROV 1010 specifies that aggregates for Granular B Type II shall only be produced from a quarry or from talus, iron blast furnace slag, or nickel slag. Sample supplied is from a gravel source and classified as a Granular B type II modified by client.

Peto MacCallum Ltd.
CONSULTING ENGINEERS

MOISTURE DENSITY RELATIONSHIP TEST REPORT

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	23
LOCATION	Cambridge, Ontario	ENCLOSURE	4

MATERIAL TYPE	53.0 mm Crushed Gravel	SAMPLE NO.	2351095
INTENDED USE	MTO OPSS 1010 Granular B Type II (modified)*	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited, Stuehler Pit, Source No. C44-243	DATE SAMPLED	October 30, 2023
SAMPLE LOCATION	Plant Stockpile	DATE RECEIVED	October 30, 2023
LAB TECHNICIAN	E. Truax	TEST METHOD	LS-706
LAB LOCATION:	Peto MacCallum Ltd., 45 Burford Rd., Hamilton, ON		

PROCTOR TEST RESULTS				
TEST METHOD	ASTM D698-12 METHOD	☐ A	☐ B	☐ C
	ASTM D1557-12 METHOD	☐ A	☐ B	☐ C
	MTO LS-706 PROCEDURE	☐ A	☐ B	☑ C
	MTO LS-707 PROCEDURE	☐ A	☐ B	☐ C
MATERIAL RETAINED ON 19.0 mm SIEVE (%)	30.7			
MATERIAL RETAINED ON 9.5 mm SIEVE (%)	--			
MATERIAL RETAINED ON 4.75 mm SIEVE (%)	--			
MOISTURE CONTENT, AS RECEIVED (%)	--			
MAXIMUM WET DENSITY (kg/m^3)	2426			
MAXIMUM DRY DENSITY (kg/m^3)	2250			
OPTIMUM MOISTURE CONTENT (%)	7.8			
CORRECTED MAXIMUM DRY DENSITY (kg/m^3)	2394			
CORRECTED OPTIMUM MOISTURE CONTENT (%)	6.3			

PREPARATION METHOD USED: DRY ☑ MOIST ☐

SPECIFIC GRAVITY VALUES FOR OVERSIZE & FINE FRACTION USED FOR CALCULATIONS: 2.80

SPECIFIC GRAVITY METHOD OF DETERMINATION: ASSUMED ☑ MEASURED ☐

MORE INFORMATION IS AVAILABLE UPON REQUEST.

NOTES:
Oversize fraction (material retained on 19.0 mm sieve) was greater than 30%.

* OPSS.PROV 1010 specifies that aggregates for Granular B Type II shall only be produced from a quarry or from talus, iron blast furnace slag, or nickel slag. Sample supplied is from a gravel source and classified as a Granular B type II modified by client.

REVIEWED BY: Amjad Khan, B.Eng.

DATE ISSUED:

Ontario

Peto MacCallum Ltd.

AGGREGATE TEST DATA – GRANULARS
Physical Properties

Contract No.: --	Contractor: --	Contract Location: --	
Testing Laboratory: Peto MacCallum Ltd., Hamilton, ON.	PML Sample No.: 2351095	Telephone No.: (905) 561-2231	Fax No.: (905) 561-6363
Sampled by (Print Name): Nelson Aggregate Co.		Date Sampled: (YY/MM/DD) 23/10/30	
Granular Type: Granular B Type II (modified)*	Lot No.: --	Quantity (tonnes): --	
Source Name/ Location: Waynco Limited, Stuehler Pit, Cambridge, Ontario		Aggregate Inventory Number (AIN):	C44-243

Laboratory Test and Number	Requirement						Test Result		
	Granular A	Granular B Type I, III	Granular B Type II	Granular M	Granular O	SSM	Reference Material	Sample	Meets Requirement (Y / N)
Freeze-Thaw Loss, % maximum, LS-614	–	–	–	–	15	–	--	--	
Micro-Deval Abrasion Loss, Coarse Aggregate, % maximum, LS-618	25	30 (Note 1)	30	25	21	30 (Note 1)	13.2	10.1	Y
Micro-Deval Abrasion Loss , Fine Aggregate, % maximum, LS-619	30	35	35	30	25	–	14.2	15.4	Y
Amount of Contamination, LS-630	Note 2							(Enclosure 3)	Y
Plastic Fines, LS-631	NP (Non-Plastic)							NP	Y
Determination of Permeability, *k*, LS-709	(Note 3)							--	

Note 1: The coarse aggregate micro-Deval abrasion loss test requirement shall be waived if the material has more than 80% passing the 4.75 sieve.

Note 2: Granular A, B Type I, B Type III, or M may contain up to 15 percent by mass crushed glass and/or ceramic material. Granular A, O, B Type I, B Type III, and M shall not contain more than 1.0 percent by mass of wood, clay brick and/or gypsum and/or gypsum wall board or plaster. Granular B Type II and SSM shall not contain more than 0.1 percent by mass of wood.

Note 3: For materials north of the French/Mattawa Rivers only, the coefficient of permeability, *k*, shall be greater than 1.0 X 10^{-4} cm/s or field experience has demonstrated satisfactory performance. Prior data demonstrating compliance with this requirement for *k*, shall be acceptable provided that such testing has been done within five years of the material being used and field performance has continually been shown to be satisfactory.

Issued by (Testing Laboratory Representative):

Amjad Khan, BEng	Amjad Saeed	April 8, 2024
PRINT NAME	SIGNATURE	DATE

Received by (Contract Administrator Representative):

PRINT NAME	SIGNATURE	DATE

Copies to: ☐ Contract Administrator; ☐ Contractor; ☐ Regional Quality Assurance; ☐ Regional Geotechnical; ☐ MERO (Soils and Aggregates)

REMARKS:

* OPSS.PROV 1010 specifies that aggregates for Granular B Type II shall only be produced from a quarry or from talus, iron blast furnace slag, or nickel slag. Sample supplied is from a gravel source and classified as a Granular B type II modified by client.

Peto MacCallum Ltd.
CONSULTING ENGINEERS

February 14, 2025

PML Ref.: 23HM004
Report: 29

Ms. Laura Fowler
Nelson Aggregate Co.
PO Box 1070
Burlington, Ontario
L7R 4L8

Dear Ms. Fowler

Laboratory Testing of Aggregates
19 mm Crushed Gravel HL-8 Coarse Aggregate
Nelson Waynco Ltd. – Stuehler Pit
Cambridge, Ontario

We are pleased to submit the results of the laboratory testing performed on a 19.0 mm crushed gravel HL-8 coarse aggregate sample delivered to our Hamilton laboratory on October 8, 2024. It is our understanding that the sample was collected by the Client at the Nelson Waynco Stuehler Pit Cambridge.

The sample has been tested to determine the suitability as HL-8 hot mix asphalt coarse aggregate in accordance with OPSS.MUNI 1003, rev 11/2013 and OPSS PROV. 1003 rev. 11/2017, *Material Specification for Aggregates – Hot Mix Asphalt.*

The results of the physical tests, which are detailed on Enclosures 1 to 4 have been compared to the appropriate OPSS HL-8 / Binder coarse aggregate requirements. The tested sample of 19 mm crushed gravel HL-8 coarse aggregate meets the specified physical requirements for the properties tested.

Should you require any additional information, please do not hesitate to contact this office.

Sincerely,

Peto MacCallum Ltd.

[redacted]

Amjad Khan, B.Eng.
Supervisor, Building Science and
Laboratory Services

Enclosure(s): 4

1 cc: Nelson Aggregate Co. (via email)

45 Burford Road, Hamilton, Ontario L8E 3C6
Tel: (905) 561-2231 Fax: (905) 561-6366
E-mail: hamilton@petomaccallum.com
BARRIE, COLLINGWOOD, HAMILTON, KITCHENER, LONDON, TORONTO

Peto MacCallum Ltd.
CONSULTING ENGINEERS

PHYSICAL TEST RESULT SUMMARY
ASPHALT COARSE AGGREGATE – BINDER COURSE

CLIENT	Waynco Limited	PML REF.	23HM004
PROJECT	Waynco Pit Aggregate Testing	REPORT	29
LOCATION	Cambridge, Ontario	ENCLOSURE	1
MATERIAL TYPE	19.0 mm Crushed Gravel	SAMPLE NO.	2450682
INTENDED USE	HL 8 Asphalt Coarse Aggregate	SAMPLED BY	Client
MATERIAL SOURCE	Waynco Limited, Pit No. 1, MAIDB # C44-243	DATE SAMPLED	October 8, 2024
SAMPLE LOCATION	Plant Stockpile	DATE RECEIVED	October 8, 2024

LABORATORY TEST	SAMPLE RESULT	REFERENCE MATERIAL RESULT	SPECIFICATION					MEETS SPEC. (Y/N)
			OPSS.MUNI 1003, TABLE 4 (NOVEMBER 2013)				OPSS.PROV 1003, TABLE 3 (NOV. 2017)	
			Superpave 4.75, 9.5, 19.0, 25.0	HL 4, HL 8	HDBC, SMA 19.0	MDBC	SMA 19 and SP 9.5, 12.5, 19, 25 & 37.5	
Wash Pass 75 µm sieve, Guideline B, % maximum loss, LS-601 (Note 1)	0.3	--	1.3	1.3	1.3	1.3	1.3	Y
Bulk Relative Density Bulk Relative Density (SSD) Apparent Relative Density	2.735 2.758 2.797	2.688 2.697 2.715	--	--	--	--	--	
Absorption, % maximum, LS-604	0.81	0.37	2.0	2.0	2.0	2.0	2.0	Y
Percent Crushed Particles, % minimum, LS-607	100	--	--	60	--	95	--	Y
Flat And Elongated Particles, % maximum at 4:1, LS-608	2	--	20 (Note 2)	20	15	15	20 (NOTE 6)	Y
Unconfined Freeze-Thaw, % maximum loss, LS-614 (Note 3)	1.8	11.4	15	15	15	15	15	Y
Percent with 2 Faces Crushed, % minimum, LS-617 (Note 5)	--	--	-	-	95	80 (Note 6)	--	
Micro-Deval Abrasion, % maximum loss, LS-618	7.7	13.1	21	21	21	21	21	Y
ALTERNATIVE REQUIREMENT TO UNCONFINED FREEZE-THAW LOSS (LS-614)								
Magnesium Sulphate Soundness, % maximum loss, LS-606	--	--	15	15	15	15	15	Y

NOTE:
1. When quarried rock is used as a source, a maximum of 2.0 % passing the 75 µm sieve shall be permitted.
2. For Ontario Traffic Categories D and E, Superpave 19.0 shall be 15% maximum.
3. This requirement shall be waived by the Owner when the aggregate meets the alternative magnesium sulphate soundness requirements, LS-606.
4. This only applies to HDBC and MDBC coarse aggregate crushed from gravel sources.
5. The maximum allowable amount of uncrushed particles is 5%, MDBC only.
6. This requirement shall be waived if RAP is included in the binder course and LS-608 is being carried out on the Fraction of the combined aggregates retnd. on 4.75 mm as required in Table 6, OPSS Muni 1003 and Table ,OPSS Prov 1003.

CERTIFIED BY CCIL

Peto MacCallum Ltd.
CONSULTING ENGINEERS

ASPHALT COARSE AGGREGATE GRADATION REPORT

CLIENT	Waynco Limited	*PML REF.*	23HM004
PROJECT	Waynco Pit Aggregate Testing	*REPORT*	29
LOCATION	Cambridge, Ontario	*ENCLOSURE*	2
MATERIAL TYPE	19.0 mm crushed gravel	*SAMPLE NO.*	250682
INTENDED USE	HL8 coarse aggregate	*SAMPLED BY*	Client
MATERIAL SOURCE	Waynco Limited, Pit No. 1, MAIDB # C44-243	*DATE SAMPLED*	October 8, 2024
SAMPLE LOCATION	Plant stockpile	*DATE RECEIVED*	October 8, 2024
TEST METHOD	LS 601/602		

SIEVE SIZE	***CUMULATIVE % PASSING***	***SPECIFICATIONS – OPSS.MUNI 1003, TABLE B-2, NOVEMBER 2013***				***MEETS SPEC. (Y/N)***
		HL 1 & DFC	***HL 3***	***HL 4***	***HL 8, MDBC, & HDBC***	
26.5 mm	100	--	--	--	*100*	Y
19.0 mm	90.7	--	--	*100*	*90-100*	Y
16.0 mm	71.6	*100*	*100*	*96-100*	*65-90*	Y
13.2 mm	54.4	*96-100*	*96-100*	*67-86*	--	
9.5 mm	26.9	*50-73*	*50-73*	*29-52*	*20-55*	Y
4.75 mm	2.8	*0-10*	*0-10*	*0-10*	*0-10*	Y
--		--	--	--	--	
75 µm ①	0.3	*1.0 max*	*1.3 max* ②	*1.3 max* ②	*1.3 max* ②	Y

NOTES:
1. *Material finer than 75 µm sieve by washing (OPSS.MUNI 1003, November 2013, Table 4 and 5).*
2. *A maximum of 2% passing is permitted where quarried rock is used as a source.*

REMARKS:

Ontario

AGGREGATE TEST DATA - HOT MIX ASPHALT

Physical Property Requirements for Combined HMA Aggregates in Surface and Binder Courses – Fraction Retained on the 4.75 mm Sieve (Note 1) [Use with SSP 110S12 (September 2016 or Later) OR OPSS.PROV 1003 (November 2017 or Later)]

Contract No.: --	Contractor: --	Contract Location: --	
Testing Laboratory: Peto MacCallum Ltd., Hamilton	PML Sample No.: 2450682	Telephone No.: (905) 561-2231	Fax No.: (905) 561-6363
Mix Type: HL8 / Binder Course	Lot No.: --	Lot Quantity (tonnes): --	

COARSE AGGREGATE(S) USED IN THE BLEND			
Source Name & Location: Waynco Limited, Waynco Pit No.1	Aggregate Inventory Number (AIN) MAIDB # C44-243	Pit (P) or Quarry (Q): P	% of Mix: --
Source Name & Location:	Aggregate Inventory Number (AIN):	Pit (P) or Quarry (Q):	% of Mix:
Source Name & Location:	Aggregate Inventory Number (AIN):	Pit (P) or Quarry (Q):	% of Mix:
FINE AGGREGATE(S) USED IN THE BLEND			
Source Name & Location:	Aggregate Inventory Number (AIN):	Pit (P) or Quarry (Q):	% of Mix:
Source Name & Location:	Aggregate Inventory Number (AIN):	Pit (P) or Quarry (Q):	% of Mix:
Source Name & Location:	Aggregate Inventory Number (AIN):	Pit (P) or Quarry (Q):	% of Mix:
		RAP #1	% of Mix:
		RAP #2	% of Mix:
		RST	% of Mix:

Requirements: SMA 9.5, 12.5 and Superpave 12.5FC 1, 12.5FC 2					Test Result		
Laboratory Test and Number	**Aggregate Type (Note 2) (Check Appropriate Box Given Below)**				**Reference Material**	**Sample**	**Meets Requirements (Y/N)**
	Gravel (G) (For 12.5FC 1 only) ☐	**Quarried Rock (SMA 9.5 & 12.5 and Superpave 12.5FC1 & Superpave 12.5FC 2)**					
		(D) ☐	(T) ☐	(M) ☐			
Wash Pass 75 µm Sieve, LS-601, Guideline B, % maximum loss,	1.0	1.0	1.0	1.0			
Absorption by mass, LS-604, % maximum	1.0	1.0	1.0	1.0			
Petrographic Number, LS-609, (HL) maximum	(Note 3)						
	120	145	120	145			
Insoluble Residue, LS-613, % minimum retained on the 75µm sieve	-	45 (Note 4)	-	-			
Unconfined Freeze Thaw, LS-614, % maximum loss	(Note 3)						
	6	7	6	6			
Micro-Deval Abrasion, LS-618, % maximum loss	(Notes 3 and 5)						
	10	15	10	15			

Requirements: SMA 19.0 and Superpave 9.5, 12.5, 19.0, 25.0, 37.5			Test Result		
Laboratory Test and Number	Surface Course: Superpave 9.5, 12.5 ☐	Binder Course: SMA 19.0 Superpave 9.5, 12.5,19.0, 25.0, 37.5 ☒	**Reference Material**	**Sample**	**Meets Requirements (Y/N)**
Wash Pass 75 µm Sieve, LS-601, Guideline B, % maximum loss	1.3 (Note 6)	1.3 (Note 6)		0.3	Y
Absorption by mass, LS-604, % maximum	2.0	2.0	0.37	0.81	Y
Unconfined Freeze-Thaw loss, LS-614, % maximum loss	6 (Note 7)	15 (Note 7)	11.4	1.8	Y
Micro-Deval Abrasion, LS-618, % maximum loss	17 (Note 5)	21 (Note 5)	13.1	7.7	Y

Alternative Requirement for LS-614					
$MgSO_4$ Soundness loss, LS-606, % maximum loss	12 (Note 7)	15 (Note 7)	--	--	

Issued by (Testing Laboratory Representative):

Amjad Khan, BEng	Amjad Saeed	February 14, 2025
PRINT NAME	SIGNATURE	DATE

Received by (Contract Administrator Representative):

PRINT NAME	SIGNATURE	DATE

Copies to: ☐ Contract Administrator; ☐ Contractor; ☐ Regional Quality Assurance; ☐ Regional Geotechnical; ☐ MERO (Soils and Aggregates)

AGGREGATE TEST DATA - HOT MIX ASPHALT
Physical Properties - Coarse Aggregate

Notes:

1. As specified in LS-600, the aggregate used for the following tests shall be prepared by first splitting off sufficient quantities of each of the aggregate components, based on their individual percentages stated in the mix design and the overall blended quantity required for the test(s). Then, with the exceptions of RAP and RST, the split portions of each of the other aggregate components shall be placed in a vessel of appropriate size and blended together by mixing. The blended aggregate shall then be split on the 4.75 mm sieve and the portion retained on the 4.75 mm sieve set aside for testing.
2. Aggregate Types (G), (D), (T) and (M) refer to the Designation Type included in the “Product Description and Designation Type” column for each source listed on the DSM #3.05.25.
3. When this test is being carried out on the coarse aggregate fraction of a Superpave 12.5 FC1 that contains coarse aggregates from more than one source, the minimum value of the % maximum losses shown below for the coarse aggregate categories that are included in that mix shall be used for acceptance.
4. The following requirements shall be met:
   i) The average value of TWO test results carried out on separate samples shall have a minimum insoluble residue of 45%. Each of these two samples shall be prepared by blending one of the two primary coarse aggregate stockpile samples (i.e. which have been taken as specified in Sampling clause within the specification), with each of the remaining aggregates in the mix (i.e. excluding RAP and/or RST), in accordance with Note 1).

   ii) The insoluble residue, determined from part i) above, minus the insoluble residue from the aggregates extracted from the HMA sample, shall meet the requirements specified in form PH-CC-449d, Note 9.
5. In addition to the requirements shown here, the Micro-Deval Abrasion loss for any individual aggregate component where the aggregate retained on the 4.75 mm sieve represents more than 5% of the overall mix design gradation, by mass, shall not exceed 25%.
6. When quarried rock is used as a source of at least one coarse aggregate in the mix, a maximum of 2.0 percent passing the 75 µm sieve shall be permitted.
7. The Owner shall waive the requirements for LS-614, Unconfined Freeze-Thaw, provided that the Contractor has submitted a written request that the coarse aggregate meet the alternative requirements for LS-606, Magnesium Sulphate Soundness.

Appendix 1003-F, November 2013
FOR USE IN MUNICIPAL CONTRACTS, WHEN REFERENCED IN THE CONTRACT DOCUMENTS

Note: This is a non-mandatory Additional Information Appendix intended to provide supplementary requirements for the OPS specification in a municipal contract, when the appendix is invoked by the Owner. It is written in mandatory language to permit invoking it by reference in the Contract Documents.

OPSS 1003 - HOT MIX AGGREGATE TEST DATA
PHYSICAL PROPERTIES – COARSE AGGREGATE

Contract No.:	**Contractor:**	**Contract Location:**	
Testing Laboratory: PML HAMILTON ON, 45 Burford Road Hamilton ON		**Telephone No.: 905-561-2231**	**Fax No.:**
Sampled By (Print Name): Waynco Aggregates		**Date Sampled (YY/MM/DD): October 8, 2024**	
Mix Type: HL-8	**Source Name/Location: Waynco Limited Pit No. 1**		**Aggregate Inventory Number (AIN):C44-243**

HL1, DFC, SMA 9.5 and 12.5, Superpave 12.5 FC1 and 12.5 FC2									
Laboratory Test and Number	**Requirements**					**Rock Type** (Note 1)	**Test Results**		
	Gravel (G)		**Quarry Rock**						
	HL 1	**Superpave 12.5 FC1**	**Dolomitic Sandstone (D)**	**Traprock, Diabase, and Andesite (T)**	**Meta-Arkose, Meta-Gabbro, Gneiss, Granite (M)**		**Reference Material**	**Sample**	**Meets Requirements (Y/N)**
Wash Pass 75 µm sieve, % maximum loss, LS-601, Guideline B	1.0	1.0	1.0	1.0	1.0				
Absorption, % maximum, LS-604	1.0	1.0	1.0	1.0	1.0				
Flat and Elongated Particles, % maximum at 4:1, LS-608	15	15	15	15	15				`
Petrographic Number (HL), Maximum, LS-609	120	120	145	120	145				
Insoluble Residue retained 75 µm sieve, % minimum, LS-613			45						
Unconfined Freeze-Thaw, % maximum loss, LS-614	6	6	7	6	6				
Particles with 2 Faces Crushed, % minimum, LS-617	80								
Micro-Deval Abrasion, % maximum loss, LS-618	10	10	15	10	15				

Superpave 4.75, 9.5, 12.5, 19.0, and 25.0, HL 3, HL 3F, HL 3HS, HL 4, HL 4F, HL 8, SMA 19.0, HDBC, MDBC										
Laboratory Test and Number	**Requirements**							**Test Results**		
	Surface Course			**Binder Course**						
	Superpave 4.75, 9.5, and 12.5	**HL 3, HL 3F, HL 3HS**	**Results**	**Superpave 4.75, 9.5, 12.5, 19.0, and 25.0**	**HL 4, HL 8**	**SMA 19.0, HDBC**	**MDBC**	**Reference Material**	**Sample Test Results**	**Meets Requirements (Y/N)**
Wash Pass 75 µm sieve, % maximum loss, LS-601-Guideline B, (Note 2)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	--	0.3	Y
Absorption, % maximum, LS-604	2.0	1.75	2.0	2.0	2.0	2.0	2.0	0.37	0.81	Y
Percent Crushed Particles, % minimum, LS-607	--	60	60	--	60	--	95		100	Y
Flat and Elongated Particles, % maximum at 4:1, LS-608	20	20	20	20 (Note 3)	20	15	15		2	Y
Petrographic Number (HL), maximum, LS-609	Note 4	--	--	--	--	--	--	--	--	--
Petrographic Examination, non-carbonate of retained 4.75 mm, % minimum, LS-609	--	60 (Note 4)	60 (Note 4)	--	--	--	--		--	--
Unconfined Freeze-Thaw, % maximum loss, LS-614 (Note 5)	6	6	6	15	15	15	15	11.4	1.8	Y
Particles with 2 Faces Crushed, % minimum, LS-617 (Note 6)	--	--	--	--	--	95	80 (Note 7)		--	--
Micro-Deval Abrasion, % maximum loss, LS-618	17	17	17	21	21	21	21	13.1	7.7	Y
Alternative Requirement for Unconfined Freeze-Thaw Loss, LS-614										
Magnesium Sulphate Soundness, % maximum loss, LS-606	12	12	12	15	15	15	15	--	--	

Appendix 1003-F

I hereby certify that testing has been carried out by a properly qualified/certified test technician:

Issued by:	Amjad Khan, BEng	[redacted]	February 14, 2025
	PRINT NAME	TESTING LABORATORY REPRESENTATIVE SIGNAURE	DATE
Received by:			
	PRINT NAME	CONTRACT ADMINISTRATOR REPRESENTATIVE SIGNATURE	DATE

Copies to: ☐ Contract Administrator ☐ Contractor

Notes:

1. Enter the type of rock or material used in the mix as follows:

   G – gravel
   D – dolomitic sandstone
   T – traprock, diabase, andesite
   M – meta-arkose, meta-gabbro, gneiss, granite

2. When quarried rock is used as a source of coarse aggregates, a maximum of 2% passing the 75 µm sieve shall be permitted.

3. For Ontario Traffic Categories D and E, Superpave 19.0 shall be 15% maximum.

4. The requirements listed below are only applicable to surface course placed in the area to the north and west of a boundary defined by the north shore of Lake Superior, the north shore of the St. Mary's River, the south shore of St. Joseph Island, the north shore of Lake Huron easterly to the north and east shore of Georgian Bay (excluding Manitoulin Island), along the Severn River to Washago and a line easterly passing through Norland, Burnt River, Burleigh Falls, Madoc, and hence easterly along Highway 7 to Perth and northerly to Calabogie and easterly to Arnprior and the Ottawa River.

   a) When the coarse aggregate for use in surface course mix is obtained from a gravel pit or quarry source containing more than 40% carbonate rock type (e.g., limestone and dolostone) then blending with aggregate of non-carbonate rock types shall be required to increase the minimum non-rock carbonate rock type content of the coarse aggregate to 60%, as determined by petrographic examination, LS-609. The method of blending shall be uniform and shall be subject to approval by the Owner. In cases of dispute, LS-613 shall be used with a minimum acid insoluble residue of 60%.

   b) When the coarse aggregate for use in surface course mix is obtained from a non-carbonate source, blending with carbonate rock types shall not be permitted.

5. This requirement shall be waived by the Owner when the aggregate meetings the alternative magnesium sulphate soundness requirement, LS-606.

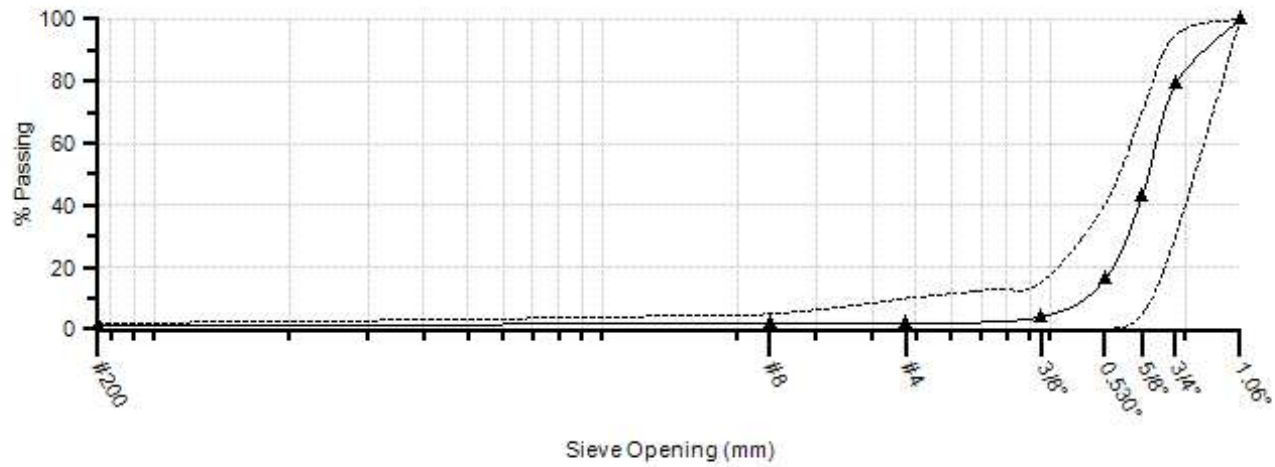
6. This only applies to coarse aggregate crushed from gravel sources.

7. The maximum allowable amount of uncrushed particles is 5%.

Basic Quality Statistical Summary Report

Plant 30-Waynco Sand & Gravel
Product GVCLR19MM-19mm Clear Stone
Specification 19mm Clear Stone
Period 04/01/2025 - 05/01/2025

Sieve/Test	Tests	Average	St Dev	Target	Specification
1.06" (26.5mm)	7	100	0.0	100-100	
3/4" (19mm)	7	79	5.1	30-95	
5/8" (16mm)	7	43	6.7	5-70	
0.530" (13.2mm)	7	16	4.8	0-40	
3/8" (9.5mm)	7	4	2.0	0-15	
#4 (4.75mm)	7	2	0.6	0-10	
#8 (2.36mm)	7	2	0.5	0-5	
#200 (75µm)	7	1.1	0.18	0-2	
Pan	7	0.0	0.00		



Tests: 1 D10(ES): 11.198 D15: 12.843 D30: 14.585 D50: 16.544 D60: 17.353 D85: 19.552 D90: 20.024 Cu: 1.550 Cc: 1.095

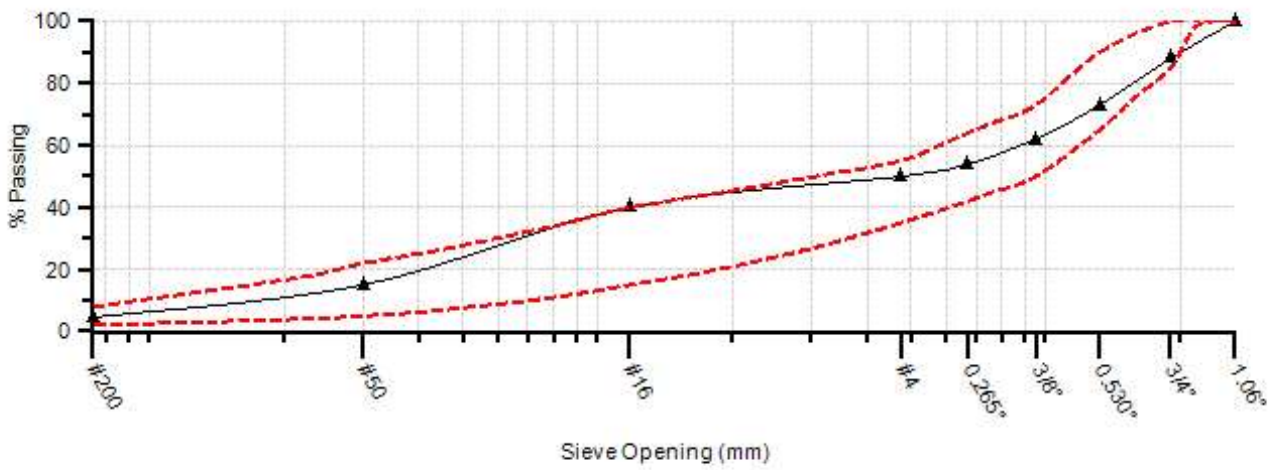
Query

Query Selections
Date Created 05/01/2025
Date Range 04/01/2025 - 05/01/2025
Plant Waynco Sand & Gravel
Sample Type Shipping

Basic Quality Statistical Summary Report

Plant	30-Waynco Sand & Gravel
Product	GRAVA-Granular A
Specification	Granular A
Period	01/27/2025 - 05/01/2025

Sieve/Test	Tests	Average	St Dev	Target	Specification
1.06" (26.5mm)	4	100	0.0		100-100
3/4" (19mm)	4	88	1.4		85-100
0.530" (13.2mm)	4	73	4.3		65-90
3/8" (9.5mm)	4	62	3.1	≤68	50-73
0.265" (6.7mm)	4	54	3.0		
#4 (4.75mm)	4	50	3.0		35-55
#16 (1.18mm)	4	40	2.2		15-40
#50 (.3mm)	4	15	1.0		5-22
#200 (75µm)	4	4.6	0.37		2-8
Pan	4	0.0	0.00		

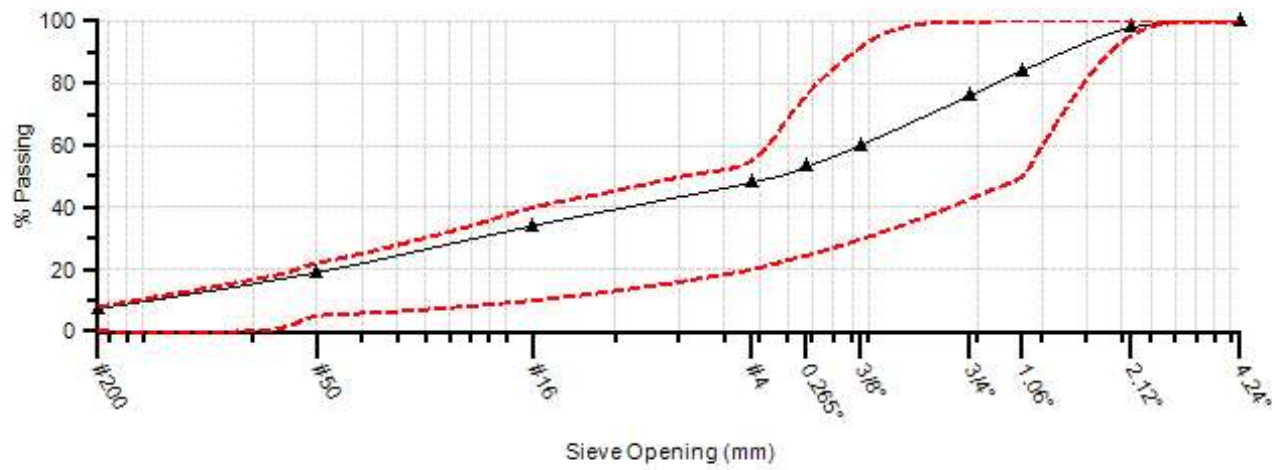


Tests: 1 D10(ES): 0.154 D15: 0.300 D30: 0.682 D50: 4.750 D60: 8.706 D85: 17.665 D90: 19.945 Cu: 56.512 Cc: 0.347

Basic Quality Statistical Summary Report

Plant	30-Waynco Sand & Gravel
Product	GRAVB2-Granular B II (Modified)
Specification	Granular B II (Modified)
Period	01/27/2025 - 05/01/2025

Sieve/Test	Tests	Average	St Dev	Target	Specification
4.24" (106mm)	8	100	0.0		100-100
2.12" (53mm)	8	98	4.5		
1.06" (26.5mm)	8	84	6.1		50-100
3/4" (19mm)	8	76	5.1		
3/8" (9.5mm)	8	60	4.0		
0.265" (6.7mm)	8	53	4.0		
#4 (4.75mm)	8	48	4.5		20-55
#16 (1.18mm)	8	34	8.1		10-40
#50 (.3mm)	8	19	3.2		5-22
#200 (75µm)	8	7.3	2.06		0-8
Pan	8	0.0	0.00		



Tests: 1 D10(ES): 0.103 D15: 0.187 D30: 0.819 D50: 5.451 D60: 9.500 D85: 27.845 D90: 35.666 Cu: 91.987 Cc: 0.684

Query

Query Selections
Date Created 05/01/2025
Date Range 01/27/2025 - 05/01/2025
Plant Waynco Sand & Gravel
Sample Type Shipping

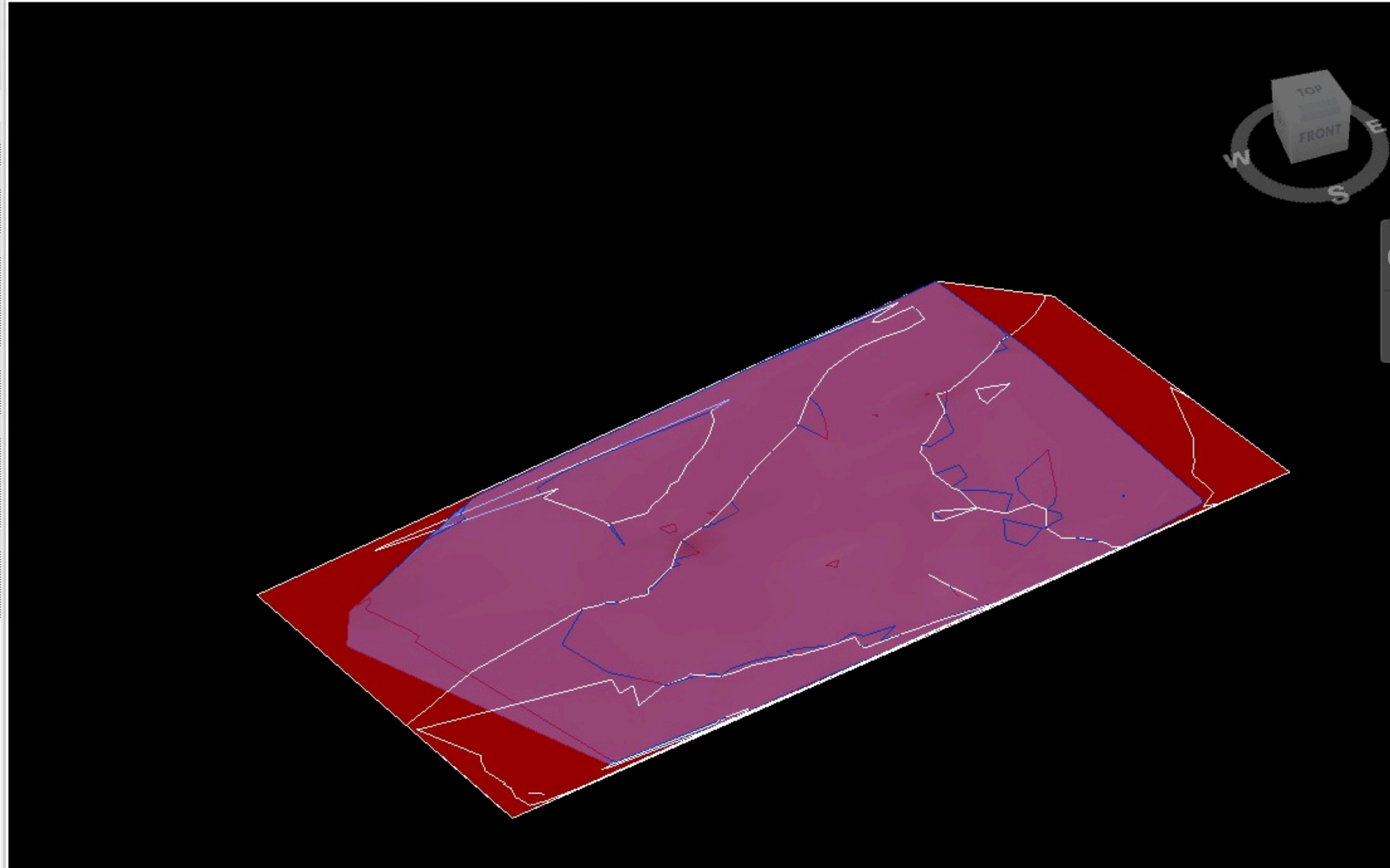
FILL QUANTITIES

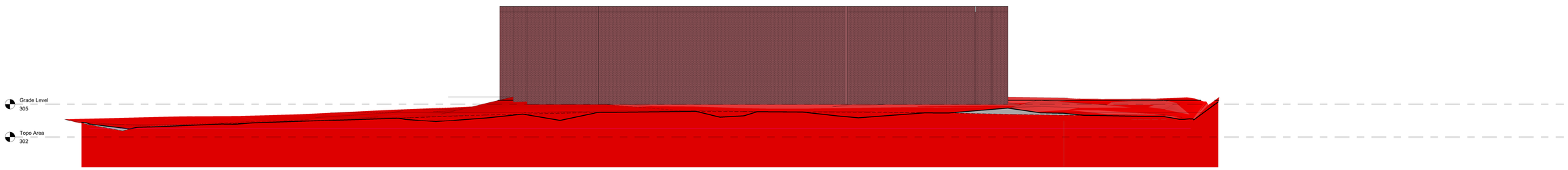
Properties

Topography (1) | Edit Type

Materials and Finishes	
Material	Concrete
Dimensions	
Projected Area	12927.514 m²
Surface Area	13006.623 m²
Identity Data	
Image	
Comments	Front Side
Name	
Mark	
Phasing	
Phase Created	New Construction
Phase Demolished	None
IFC Parameters	
Export to IFC	By Type
Export to IFC As	
IFC Predefined Type	
IfcGUID	1TNv7doiL3Agabo0hltzw0
Other	
Net cut/fill	-1343.721 m³
Fill	244.814 m³
Cut	1588.535 m³

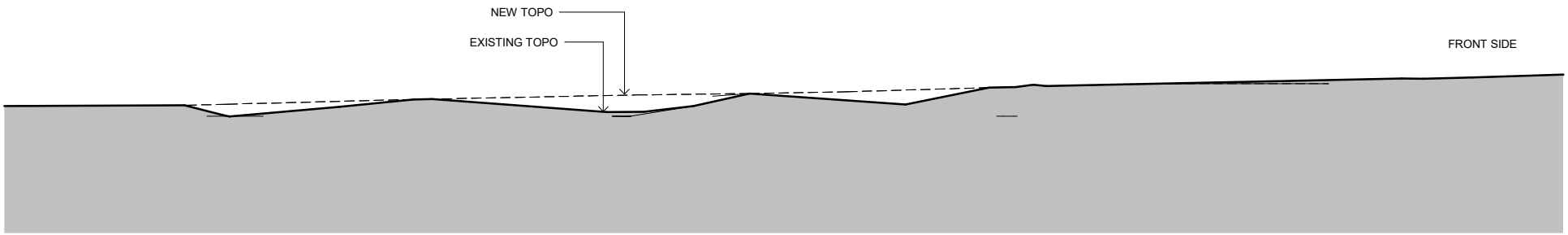
Incoming / Outgoing Material | Topo Area | {3D}

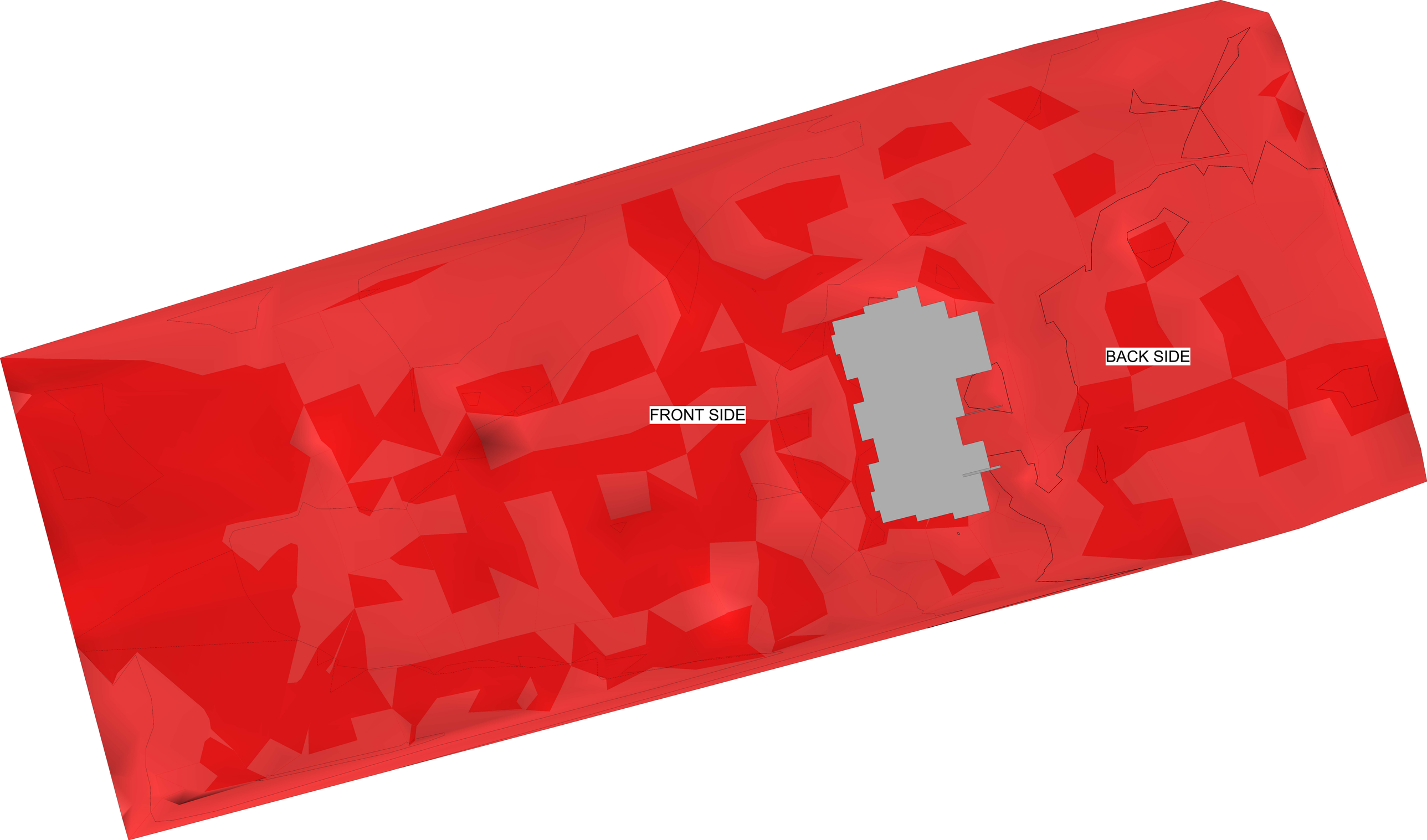


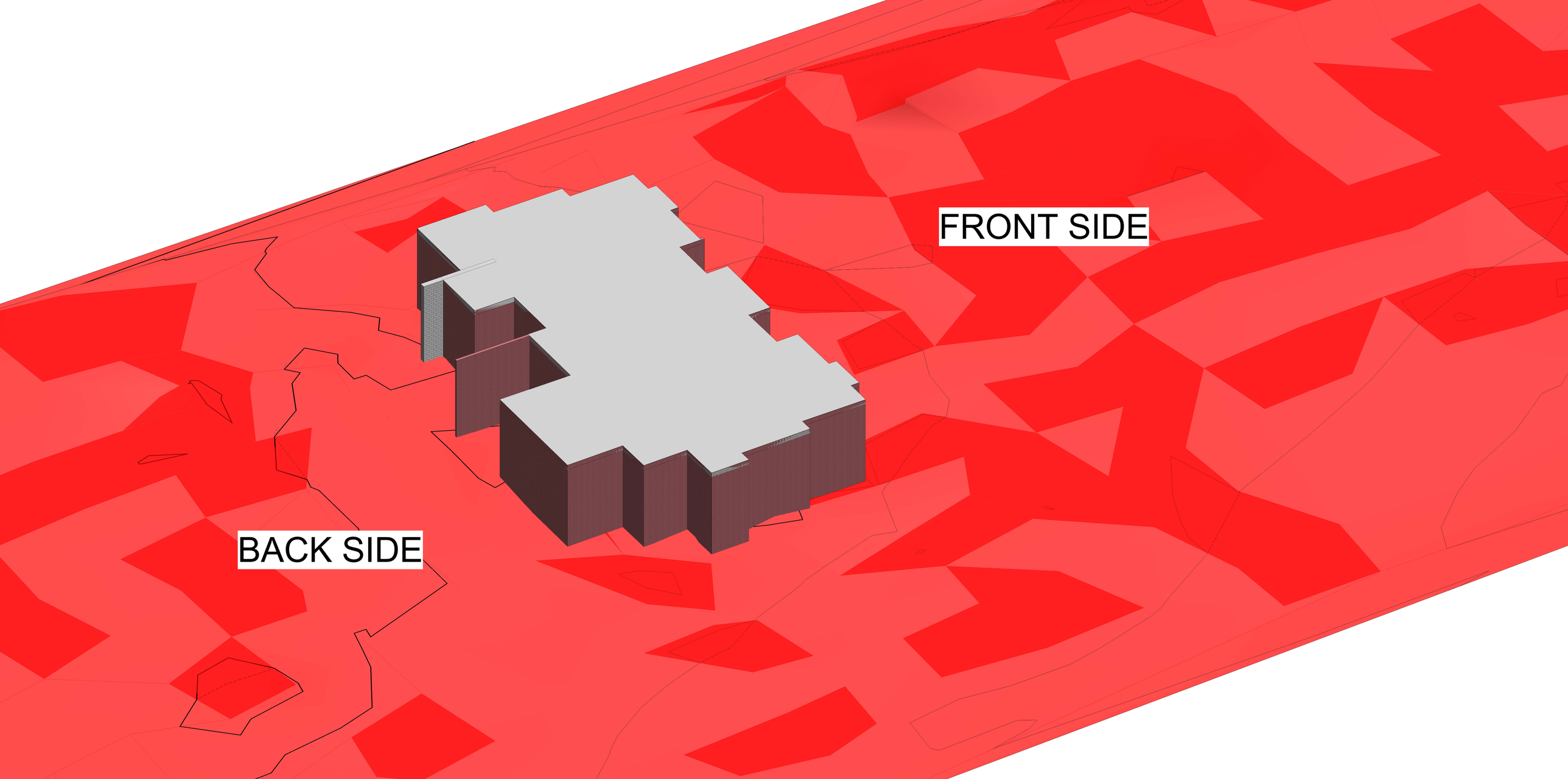


FRONT SIDE

FRONT SIDE
BACK SIDE


NEW TOPO
EXISTING TOPO
FRONT SIDE


FRONT SIDE
BACK SIDE


FRONT SIDE
BACK SIDE

<Incoming / Outgoing Material>

A	B	C	D
Cut (Outgoing material From site)	Fill(Incoming material to Site)	Net cut/fill (To/From Site)	Area
1588.48 m³	244.84 m³	-1343.64 m³	Front Side

<Incoming / Outgoing Material>

A	B	C	D
Cut (Outgoing material From site)	Fill(Incoming material to Site)	Net cut/fill (To/From Site)	Area
7835.43 m³	346.08 m³	-7489.35 m³	Back Side

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 30161131
2024-05-22 3:30:10PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	35.90Metric To	12.00	430.80
Tax	HST	13.0000	56.00
Total			486.80

HST#: 105598411

	KG
Gross	53210
Tare	17310 *
Net	35900

* Manual P. T.

	Today	Order
Loads	3	3
Qty	107.71	107.71

Our responsibility ends at the curb.

Customer ID: NEW GOBIND TRANSPORT

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 30161122
2024-05-22 1:59:44PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	35.97Metric To	12.00	431.64
Tax	HST	13.0000	56.11
Total			487.75

HST#: 105598411

	KG
Gross	53280
Tare	17310 *
Net	35970

* Manual P. T.

	Today	Order
Loads	2	2
Qty	71.81	71.81

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 30161118
2024-05-22 12:46:07PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	35.84Metric To	12.00	430.08
Tax	HST	13.0000	55.91
Total			485.99

HST#: 105598411

	KG
Gross	53150
Tare	17310 *
Net	35840 *

* Manual Weight

	Today	Order
Loads	1	1
Qty	35.84	35.84

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 30161118
2024-05-22 12:46:07PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	35.84Metric To	12.00	430.08
Tax	HST	13.0000	55.91
Total			485.99

HST#: 105598411

	KG
Gross	53150
Tare	17310 *
Net	35840 *

* Manual Weight

	Today	Order
Loads	1	1
Qty	35.84	35.84

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket **30161131**
2024-05-22 3:30:10PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty		Rate	Amount
Product	35.90	Metric To	12.00	430.80
Tax		HST	3.0000	56.00
Total				486.80

HST#: 105598411

	KG
Gross	53210
Tare	17310 *
Net	35900

* Manual P. T.

	Today	Order
Loads	3	3
Qty	107.71	107.71

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 30161122
2024-05-22 1:59:44PM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRANULAR A	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	35.97Metric To	12.00	431.64
Tax	HST	13.0000	56.11
Total			487.75

HST#: 105598411

	KG
Gross	53280
Tare	17310 *
Net	35970

* Manual P. T.

	Today	Order
Loads	2	2
Qty	71.81	71.81

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227537
2024-05-22 8:23:32AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.98Metric To	11.00	384.78
Tax	HST	13.0000	50.02
Total			434.80

HST#: 105598411

	KG
Gross	52290
Tare	17310
Net	34980

	Today	Order
Loads	2	6
Qty	69.68	191.28

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227581
2024-05-22 10:56:36AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.40Metric To	11.00	378.40
Tax	HST	13.0000	49.19
Total			427.59

HST#: 105598411

	KG
Gross	51710
Tare	17310 *
Net	34400

* P. T.

	Today	Order
Loads	4	8
Qty	138.65	260.25

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227537

2024-05-22 8:23:32AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.98Metric To	11.00	384.78
Tax	HST	13.0000	50.02
Total			434.80

HST#: 105598411

	KG
Gross	52290
Tare	17310
Net	34980

	Today	Order
Loads	2	6
Qty	69.68	191.28

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

WAYNCO AGGREGATES

Ticket 31227581
2024-05-22 10:56:36AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.40Metric To	11.00	378.40
Tax	HST	13.0000	49.19
Total			427.59

HST#: 105598411

	KG
Gross	51710
Tare	17310 *
Net	34400

* P. T.

	Today	Order
Loads	4	8
Qty	138.65	260.25

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

WAYNCO AGGREGATES

Ticket 31227558
2024-05-22 9:41:19AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.57Metric To	11.00	380.27
Tax	HST	13.0000	49.44
Total			429.71

HST#: 105598411

	KG
Gross	51880
Tare	17310
Net	34570

	Today	Order
Loads	3	7
Qty	104.25	225.85

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227558

2024-05-22 9:41:19AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.57Metric To	11.00	380.27
Tax	HST	13.0000	49.44
Total			429.71

HST#: 105598411

	KG
Gross	51880
Tare	17310
Net	34570

	Today	Order
Loads	3	7
Qty	104.25	225.85

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227517
2024-05-22 7:02:58AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSPC	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.70Metric To	11.00	381.70
Tax	HST	13.0000	49.62
Total			431.32

HST#: 105598411

	KG
Gross	52010
Tare	17310 *
Net	34700

* P. T.

	Today	Order
Loads	1	5
Qty	34.70	156.30

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31227517
2024-05-22 7:02:58AM

Customer	8888	CASH GRAVEL
Order	13554	FOB WAYNCO 2024
Product	GRAN B MODIFIED	
P.O.	NEW GOBIND TRANSP(	
Deliver		
Carrier	100	2383227 ONT INC - 346
Vehicle	BW57133	BW57133

Received **Driver**

	Qty	Rate	Amount
Product	34.70Metric To	11.00	381.70
Tax	HST	13.0000	49.62
Total			431.32

HST#: 105598411

	KG
Gross	52010
Tare	17310 *
Net	34700

* P. T.

	Today	Order
Loads	1	5
Qty	34.70	156.30

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193652
2023-06-08 12:14:54PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2272	L&B 319
Vehicle	AZ83346	319

Received **Driver**

	Qty	Rate	Amount
Product	22.73Metric To	26.20	595.52
Tax	HST	13.0000	77.42
Total			672.94

HST#: 105598411

	KG
Gross	36480
Tare	13750 *
Net	22730

* Manual P. T.

	Today	Order
Loads	1	8
Qty	22.73	146.78

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193708
2023-06-08 3:51:16PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2081	KEN MORGENWEG 1
Vehicle	AW71703	

Received **Driver** Ken

	Qty		Rate	Amount
Product	24.70	Metric To	26.20	647.14
Tax		HST	3.0000	84.13
Total				731.27

HST#: 105598411

	KG
Gross	37600
Tare	12900 *
Net	24700 *

* Manual Weight

	Today	Order
Loads	3	10
Qty	69.27	193.32

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193674
2023-06-08 1:25:24PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2272	L&B 319
Vehicle	AZ83346	319

Received **Driver**

	Qty		Rate	Amount
Product	21.84	Metric To	26.20	572.21
Tax		HST	3.0000	74.39
Total				646.60

HST#: 105598411

	KG
Gross	35590
Tare	13750 *
Net	21840

* Manual P. T.

	Today	Order
Loads	2	9
Qty	44.57	168.62

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193821
2023-06-09 1:33:43PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2081	KEN MORGENWEG 1
Vehicle	AW71703	

Received **Driver** Ken

	Qty		Rate	Amount
Product	24.63	Metric To	26.20	645.30
Tax		HST	3.0000	83.89
Total				729.19

HST#: 105598411

	KG
Gross	37530
Tare	12900 *
Net	24630

* Manual P. T.

	Today	Order
Loads	3	13
Qty	74.22	267.54

Our responsibility ends at the curb.

Cardholder will pay card issuer above amount pursuant to Cardholder Agreement

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193802
2023-06-09 12:26:40PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2081	KEN MORGENWEG 1
Vehicle	AW71703	

Received **Driver** Ken

	Qty	Rate	Amount
Product	24.68Metric To	26.20	646.62
Tax	HST	13.0000	84.06
Total			730.68

HST#: 105598411

	KG
Gross	37580
Tare	12900 *
Net	24680 *

* Manual Weight

	Today	Order
Loads	2	12
Qty	49.59	242.91

Our responsibility ends at the curb.

[illegible] pursuant to Cardholder Agreement

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193798
2023-06-09 12:14:30PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2421	MORGENWEG 29
Vehicle	AV66496	29

Received **Driver**

	Qty		Rate	Amount
Product	24.91	Metric To	26.20	652.64
Tax		HST	13.0000	84.84
Total				737.48

HST#: 105598411

	KG
Gross	37410
Tare	12500 *
Net	24910

* Manual P. T.

	Today	Order
Loads	1	11
Qty	24.91	218.23

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31193822
2023-06-09 1:37:11PM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver	226-339-3030	
Carrier	2421	MORGENWEG 29
Vehicle	AV66496	29

Received **Driver**

	Qty	Rate	Amount
Product	25.15Metric To	26.20	658.94
Tax	HST	13.0000	85.66
Total			744.60

HST#: 105598411

	KG
Gross	37650
Tare	12500 *
Net	25150

* Manual P. T.

	Today	Order
Loads	4	14
Qty	99.37	292.69

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31195071
2023-06-22 9:09:20AM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver		
Carrier	2272	L & B - 219
Vehicle	AW86427	219

Received **Driver**

	Qty	Rate	Amount
Product	23.05Metric To	26.20	603.92
Tax	HST	13.0000	78.51
Total			682.43

HST#: 105598411

	KG
Gross	37610
Tare	14560 *
Net	23050

* Manual P. T.

	Today	Order
Loads	3	18
Qty	68.78	370.14

Our responsibility ends at the curb.

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket 31195048
2023-06-22 6:48:58AM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver		
Carrier	2272	L & B - 219
Vehicle	AW86427	219

Received **Driver**

	Qty	Rate	Amount
Product	22.81 Metric To	26.20	597.63
Tax	HST	13.0000	77.69
Total			675.32

HST#: 105598411

	KG
Gross	37370
Tare	14560 *
Net	22810

* Manual P. T.

	Today	Order
Loads	1	16
Qty	22.81	324.17

Our responsibility ends at the curb.

Cardholder will pay card issuer above amount pursuant

Waynco Sand & Gravel
1417 Waynco Road
Cambridge, Ontario N1R 5S6
519-623-0240

Ticket **31195062**
2023-06-22 8:15:51AM

Customer	8888	CASH GRAVEL
Order	12268	563 TOWNLINE RD CAMBRIDGE
Product	19MM CLEAR STONE	
P.O.		
Deliver		
Carrier	2272	L & B - 219
Vehicle	AW86427	219

Received **Driver**

	Qty		Rate	Amount
Product	22.92	Metric To	26.20	600.50
Tax		HST	3.0000	78.07
Total				678.57

HST#: 105598411

	KG
Gross	37480
Tare	14560 *
Net	22920

* Manual P. T.

	Today	Order
Loads	2	17
Qty	45.73	347.09

Our responsibility ends at the curb.

Cardholder will pay card issuer [illegible]

Abid Sahi
asahi@pnjeng.com
647.703.7960