

Adverse Soils Conditions

Address(&lot):spreadwing way, Omakigi, Dun Skipper, Miikana, ninaatik, Paakanaak, gartersnake, esban (only 4)
Subdivision, Phase, Builder: 4800 Bank St, Pathways, Phase 2, SRR-19-000006
Geotechnical Memo (s) & Report (s): Golder Associates 20145976(1147) dated June 30, 2020, ref Golder's geotech report, Remer and Iodone lands, 13-1121-0083 (1046)
Notes: grade raise only listed, no special considerations for pools or decks, additions required P.Eng per the geotech report, LWF only req'd if grade raise exceeded

September 20, 2021

Permit Approvals - requirements at permit application		
Site Class A,B,C,D,E or F	A, B, C, D - Standard Procedure unless dictated by other factors	
Bearing Capacity Kpa	75 kPa or greater, part 9 fdtn - Standard Procedure unless dictated by other factors	
Maximum Permissible Grade Raise Identified	Part 4/9	Part 9 & 4 Foundation Requirements Geotechnical Engineer • Confirmation of part 9/4 foundation • Part 9 only - Lot specific bearing capacity values at the USF as a function of founding elevation, including footing restrictions • Part 4 only - Soil design bearing capacity, SLS and ULS at USF as a function of founding elevation, including footing restrictions • Footing sizes and the effects of long term groundwater lowering accounted for • Existing grade elevation, proposed finished grade elevation, maximum allowable grade raise, actual grade raise, proposed USF elevation • Calculated post construction settlements (include special requirements for foundation construction where calculated settlements are more than 25mm total and 20mm differential)
	Additional for part 4	N/A
Light Weight Fill Required	Part 9&4 Foundation Requirements Geotechnical Engineer • Confirmation of part 9 Foundation (site conditions may dictate part 4 design as determined by geotechnical engineer) • Lot Specific, backfill, engineered fill details • Calculated post construction settlements, (include special requirements for footing and foundation wall construction where calculated settlements are more than 25mm total and 20mm differential).	

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021



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September 20, 2021

Building Inspection - requirements at key inspection stages	
Site Class A,B,C,D,E or F	A, B, C, D - Standard Procedure unless dictated by other factors
Bearing Capacity Kpa	75 kPa or greater, part 9 fdtn - Standard Procedure unless dictated by other factors
Maximum Permissable Grade Raise Identified	Part 9 or 4 fdtn Excavation Inspection - Geotechnical Engineer Confirm bearing capacity at USF meets/exceeds minimum design requirements. Final Inspection - Geotechnical Engineer • Lot specific letter signed under professional seal confirming that the grade raise, is as recommended (reference all geotechnical reports) • Expected post construction settlement limits of 25 mm total and 20 mm differential will not be exceeded.
Additional for part 4	N/A
Light Weight Fill Required	Part 9 or 4 foundation design Excavation Inspection - Geotechnical Engineer Confirm bearing capacity at USF meets/exceeds minimum design requirements. Framing Inspection - Geotechnical Engineer/Designate Lot specific site review memo confirming light weight fill has been placed in accordance with geotechnical engineers recommendations. Final Inspection - Geotechnical Engineer • Lot specific letter signed under professional seal confirming that the installed backfill, lightweight fill, granular fill are installed as recommended (reference all geotechnical reports) • Expected post construction settlement limits of 25 mm total and 20 mm differential will not be exceeded.

REVIEWED

By Terri Hunt at 2:44 pm, Sep 20, 2021





GOLDER

REVIEWED

By Terri Hunt at 2:44 pm, Sep 20, 2021

TECHNICAL MEMORANDUM

DATE June 30, 2020
Project No. 20145976(1147)
TO Erin O'Connor, MCIP, RPP
Leitrim South Holdings Inc.
FROM Ali Ghirian, P.Eng.; Bill Cavers, P.Eng.
EMAIL Ali_Ghirian@golder.com;
William_Cavers@golder.com

GRADE RAISE REVIEW (REV. 2) PATHWAYS AT FRIENDLY CREEK RESIDENTIAL DEVELOPMENT – PHASE 2 4800 BANK STREET, OTTAWA, ONTARIO

This technical memorandum provides a detailed geotechnical review of the proposed site grading including a summary table for each individual lot/block, for Phase 2 of the Pathways residential development located at 4800 Bank Street in Ottawa, Ontario

The attached Summary of Design Details table, as well as the following sections provides our geotechnical recommendations pertaining to the grading of the site.

Subsurface Conditions

Golder Associates previously carried out a geotechnical investigation for the proposed development and the results of that investigation were provided in the following report:

- *Golder report titled "Geotechnical Investigation, Proposed Residential Development, Remer and Idone Lands, Ottawa, Ontario", dated January 2017 (report number 13-1121-0083 (1046)).*

Based on the results of the geotechnical investigation, in general, the subsurface conditions on this site consist of topsoil or peat (at the western portion of the site) overlying sands, silts, and followed by bouldery glacial till, which is in turn underlain by bedrock. Localized thin layers of silty clay were encountered below the peat or topsoil within the extreme southwest portion of the site.

The depth to the bedrock surface varies from about 2 m to greater than 7 m below the ground surface, generally increasing in depth from east to west.

Grading Plan Review

The street, block, lot or part numbering used in the attached Summary of Design Details tables was obtained from the following grading plans prepared by IBI Group for this site, and associated civic addressing plan:

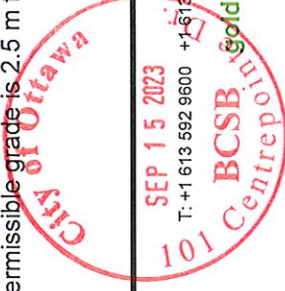
- Grading Plan, Project No. 33956, Drawing Nos. 210 to 214, Revision 10, dated April 28, 2020.

The existing and finished grades as well as the Underside of Footing (USF) elevations for the proposed development are provided on the grading plan drawing referenced above.

Based on recommendations provided in our geotechnical report, the maximum permissible grade is 2.5 m for the proposed development.

Golder Associates Ltd.
1931 Robertson Road Ottawa, Ontario, K2H 5B7 Canada

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By Terri Hunt at 2:44 pm, Sep 20, 2021

The finished grades were reviewed for each individual block/lot in comparison to the permissible grade raises and the proposed grading plan for the proposed Phase 2 development was found to be in accordance with the guidelines and recommendations provided in the geotechnical report prepared for this site and, as such, are considered acceptable from a geotechnical point of view.

Frost Protection

The soils at this site are considered to be highly frost susceptible. All exterior perimeter foundation elements or foundation elements in unheated areas should therefore be provided with a minimum of 1.5 m of earth cover for frost protection purposes. Isolated, unheated exterior footings adjacent to surfaces which are cleared of snow cover during winter months should be provided with a minimum of 1.8 m of earth cover.

Based on the review of the proposed finished grades and the USF elevation, as highlighted on the attached Summary of Design Details table, Block 35 does not meet the minimum frost cover requirements, and as such, equivalent insulation needs to be provided at the rear of Block 35.

Closure

We trust that this memo provides sufficient information for your present requirements. If you have any questions concerning this memo, please do not hesitate to contact the undersigned.

Yours truly,

Golder Associates Ltd.



A. Ghirian

Ali Ghirian, P.Eng.
Geotechnical Engineer

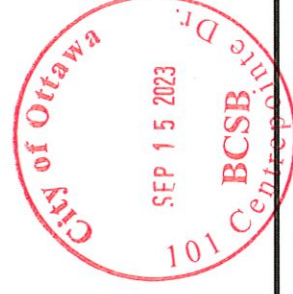
Bill Cavers

Bill Cavers, P.Eng.
Associate, Senior Geotechnical Engineer

AG/WC/hdw

[https://golderassociates.sharepoint.com/sites/126333/project/files/6 deliverables/tech memo/20145976 \(1147\)-001-tm-rev2- pathways phase 2 grade raise review 30-06-2020.docx](https://golderassociates.sharepoint.com/sites/126333/project/files/6%20deliverables/tech%20memo/20145976%20(1147)-001-tm-rev2-pathways%20phase%20grade%20raise%20review%2030-06-2020.docx)

Attachments: Table 1 – Summary of Design Details (Rev. 2)



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
210	Miikana Road	665	48			94.71	94.71	94.59	94.52	94.63	94.13	96.40	96.40	96.25	96.20	95.88	2.50	1.69	1.69	1.66	1.68	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	667	48			94.71	94.71	94.59	94.52	94.63	94.13	96.40	96.40	96.40	96.20	95.91	2.50	1.69	1.69	1.81	1.68	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	669	48			94.71	94.71	94.59	94.52	94.63	94.13	96.40	96.40	96.40	96.20	95.91	2.50	1.69	1.69	1.81	1.68	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	671	48			94.71	94.71	94.59	94.52	94.63	94.13	96.40	96.40	96.40	96.20	95.91	2.50	1.69	1.69	1.81	1.68	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	673	48			94.71	94.53	94.52	94.52	94.57	94.08	96.35	96.35	96.20	96.30	95.86	2.50	1.64	1.82	1.68	1.78	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	675	48			94.71	94.53	94.52	94.52	94.57	94.08	96.35	96.35	96.20	96.30	95.86	2.50	1.64	1.82	1.68	1.78	No	No	2.3	2.1	Yes	Yes
210	Miikana Road	677	48			94.71	94.53	94.52	94.52	94.57	94.08	96.35	96.35	96.20	96.30	95.86	2.50	1.64	1.82	1.68	1.78	No	No	2.3	2.1	Yes	Yes
210	Wabikon Crescent	105	49			94.52	94.53	94.59	94.59	94.56	93.93	96.20	96.20	96.00	95.60	95.59	2.50	1.68	1.67	1.41	1.01	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	107	49			94.52	94.53	94.59	94.59	94.56	93.93	96.20	96.20	96.00	95.60	95.59	2.50	1.68	1.67	1.41	1.01	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	109	49			94.52	94.53	94.59	94.59	94.56	93.93	96.20	96.20	96.00	95.60	95.59	2.50	1.68	1.67	1.41	1.01	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	111	49			94.52	94.53	94.59	94.59	94.56	93.93	96.20	96.20	96.00	95.60	95.59	2.50	1.68	1.67	1.41	1.01	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	113	49			94.53	94.47	94.59	94.75	94.59	93.58	95.85	95.85	95.60	95.20	95.22	2.50	1.32	1.38	1.01	0.45	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	115	49			94.53	94.47	94.59	94.75	94.59	93.58	95.85	95.85	95.60	95.20	95.22	2.50	1.32	1.38	1.01	0.45	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	117	49			94.53	94.47	94.59	94.75	94.59	93.58	95.85	95.85	95.60	95.20	95.22	2.50	1.32	1.38	1.01	0.45	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	119	49			94.53	94.47	94.59	94.75	94.59	93.58	95.85	95.85	95.60	95.20	95.22	2.50	1.32	1.38	1.01	0.45	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	121	49			94.47	94.43	94.75	94.53	94.55	93.33	95.60	95.60	95.10	95.20	94.97	2.50	1.13	1.17	0.35	0.67	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	123	49			94.47	94.43	94.75	94.53	94.55	93.33	95.60	95.60	95.10	95.20	94.97	2.50	1.13	1.17	0.35	0.67	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	125	49			94.47	94.43	94.75	94.53	94.55	93.33	95.60	95.60	95.10	95.20	94.97	2.50	1.13	1.17	0.35	0.67	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	127	49			94.43	94.37	94.53	94.43	94.44	93.18	95.45	95.45	94.95	94.75	94.76	2.50	1.02	1.08	0.42	0.32	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	129	49			94.43	94.37	94.53	94.43	94.44	93.18	95.45	95.45	94.95	94.75	94.76	2.50	1.02	1.08	0.42	0.32	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	131	49			94.43	94.37	94.53	94.43	94.44	93.18	95.45	95.45	94.95	94.75	94.76	2.50	1.02	1.08	0.42	0.32	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	133	50			94.37	94.30	94.35	94.29	94.33	93.03	95.30	95.30	94.68	94.80	94.62	2.50	0.93	1.00	0.33	0.51	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	135	50			94.37	94.30	94.35	94.29	94.33	93.03	95.30	95.30	94.68	94.80	94.62	2.50	0.93	1.00	0.33	0.51	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	137	50			94.37	94.30	94.35	94.29	94.33	93.03	95.30	95.30	94.68	94.80	94.62	2.50	0.93	1.00	0.33	0.51	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	139	50			94.30	94.28	94.29	94.28	94.29	93.13	95.40	95.40	94.90	94.75	94.72	2.50	1.10	1.12	0.61	0.47	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	141	50			94.30	94.28	94.29	94.28	94.29	93.13	95.40	95.40	94.90	94.75	94.72	2.50	1.10	1.12	0.61	0.47	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	143	50			94.30	94.28	94.29	94.28	94.29	93.13	95.40	95.40	94.90	94.75	94.72	2.50	1.10	1.12	0.61	0.47	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	145	50			94.28	94.28	94.20	94.20	94.24	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.02	0.48	0.48	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	147	50			94.28	94.28	94.20	94.20	94.24	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.02	0.48	0.48	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	149	50			94.28	94.28	94.20	94.20	94.24	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.02	0.48	0.48	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	151	50			94.28	94.28	94.20	94.20	94.24	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.02	0.48	0.48	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	153	50			94.28	94.13	94.10	94.03	94.14	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.17	0.58	0.65	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	155	50			94.28	94.13	94.10	94.03	94.14	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.17	0.58	0.65	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	157	50			94.28	94.13	94.10	94.03	94.14	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.17	0.58	0.65	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	159	50			94.28	94.13	94.10	94.03	94.14	93.03	95.30	95.30	94.68	94.68	94.60	2.50	1.02	1.17	0.58	0.65	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	161	51			94.13	94.10	94.03	94.02	94.07	93.02	95.30	95.30	94.68	94.68	94.60	2.50	1.17	1.20	0.65	0.66	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	163	51			94.13	94.10	94.03	94.02	94.07	93.02	95.30	95.30	94.68	94.68	94.60	2.50	1.17	1.20	0.65	0.66	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	165	51			94.13	94.10	94.03	94.02	94.07	93.02	95.30	95.30	94.68	94.68	94.60	2.50	1.17	1.20	0.65	0.66	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	167	51			94.13	94.10	94.03	94.02	94.07	93.02	95.30	95.30	94.68	94.68	94.60	2.50	1.17	1.20	0.65	0.66	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	169	51			94.13	94.10	94.03	94.02	94.07	93.02	95.30	95.30	94.68	94.68	94.60	2.50	1.17	1.20	0.65	0.66	No	No	2.3	1.7	Yes	Yes
210	Wabikon Crescent	171	51			94.10	94.20	94.02	94.03	94.09	92.92	95.20	95.20	94.68	94.68	94.54	2.50	1.10	1.00	0.66	0.65	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	173	51			94.10	94.20	94.02	94.03	94.09	92.92	95.20	95.20	94.68	94.68	94.54	2.50	1.10	1.00	0.66	0.65	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	175	51			94.10	94.20	94.02	94.03	94.09	92.92	95.20	95.20	94.68	94.68	94.54	2.50	1.10	1.00	0.66	0.65	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	177	51			94.10	94.20	94.02	94.03	94.09	92.92	95.20	95.20	94.68	94.68	94.54	2.50	1.10	1.00	0.66	0.65	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	179	51			94.10	94.20	94.02	94.03	94.09	92.92	95.20	95.20	94.68	94.68	94.54	2.50	1.10	1.00	0.66	0.65	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	181	51			94.20	94.25	94.03	94.00	94.12	92.88	95.15	95.15	94.68	94.68	94.51	2.50	0.95	0.90	0.65	0.68	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	183	51			94.20	94.25	94.03	94.00	94.12	92.88	95.15	95.15	94.68	94.68	94.51	2.50	0.95	0.90	0.65	0.68	No	No	2.3	1.8	Yes	Yes
210	Wabikon Crescent	185	51			94.20	94.25	94.03	94.00	94.12	92.88	95.15	95.15	94.68	94.68	94.51	2.50	0.95	0.90	0.65	0.68	No	No	2.3	1.8	Yes	Yes



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
210	Miikana Road	713	52			94.26	93.93	94.16	93.80	94.04	93.10	95.10	95.10	95.10	94.80	94.64	2.50	0.84	1.17	0.94	1.00	No	No	2.0	1.7	Yes	Yes
210	Miikana Road	715	52			94.26	93.93	94.16	93.80	94.04	93.10	95.10	95.10	95.10	94.80	94.64	2.50	0.84	1.17	0.94	1.00	No	No	2.0	1.7	Yes	Yes
210	Miikana Road	717	52			94.26	93.93	94.16	93.80	94.04	93.10	95.10	95.10	95.10	94.80	94.64	2.50	0.84	1.17	0.94	1.00	No	No	2.0	1.7	Yes	Yes
210	Miikana Road	719	52			94.26	93.93	94.16	93.80	94.04	93.10	95.10	95.10	95.10	94.80	94.64	2.50	0.84	1.17	0.94	1.00	No	No	2.0	1.7	Yes	Yes
210	Miikana Road	721	52			93.93	93.78	93.80	93.78	93.82	93.10	95.10	95.10	94.70	94.66	94.53	2.50	1.17	1.32	0.90	0.88	No	No	2.0	1.6	Yes	Yes
210	Miikana Road	723	52			93.93	93.78	93.80	93.78	93.82	93.10	95.10	95.10	94.70	94.66	94.53	2.50	1.17	1.32	0.90	0.88	No	No	2.0	1.6	Yes	Yes
210	Miikana Road	725	52			93.93	93.78	93.80	93.78	93.82	93.10	95.10	95.10	94.70	94.66	94.53	2.50	1.17	1.32	0.90	0.88	No	No	2.0	1.6	Yes	Yes
210	Miikana Road	727	52			93.93	93.78	93.80	93.78	93.82	93.10	95.10	95.10	94.70	94.66	94.53	2.50	1.17	1.32	0.90	0.88	No	No	2.0	1.6	Yes	Yes
210	Miikana Road	729	52			93.93	93.78	93.80	93.78	93.82	93.10	95.10	95.10	94.70	94.66	94.53	2.50	1.17	1.32	0.90	0.88	No	No	2.0	1.6	Yes	Yes
210	Miikana Road	693	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	695	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	697	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	699	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	701	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	703	53			94.58	94.57	94.35	94.35	94.46	93.48	95.75	95.75	95.35	95.30	95.13	2.50	1.17	1.18	1.00	0.95	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	681	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Miikana Road	683	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Miikana Road	685	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Miikana Road	687	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Miikana Road	689	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Miikana Road	691	54			94.51	95.58	94.40	94.35	94.71	93.93	96.20	96.20	95.80	95.50	95.53	2.50	1.69	0.62	1.40	1.15	No	No	2.3	1.6	Yes	Yes
210	Wabikon Crescent	108	55			94.46	94.44	94.25	94.25	94.35	94.15	96.15	96.15	96.65	96.65	95.95	2.50	1.69	1.71	2.40	2.40	No	No	2.0	2.5	Yes	Yes
210	Wabikon Crescent	106	55			94.46	94.44	94.25	94.25	94.35	94.15	96.15	96.15	96.65	96.65	95.95	2.50	1.69	1.71	2.40	2.40	No	No	2.0	2.5	Yes	Yes
210	Wabikon Crescent	104	55			94.46	94.44	94.25	94.25	94.35	94.15	96.15	96.15	96.65	96.65	95.95	2.50	1.69	1.71	2.40	2.40	No	No	2.0	2.5	Yes	Yes
210	Wabikon Crescent	102	55			94.46	94.44	94.25	94.25	94.35	94.15	96.15	96.15	96.65	96.65	95.95	2.50	1.69	1.71	2.40	2.40	No	No	2.0	2.5	Yes	Yes
210	Wabikon Crescent	100	55			94.46	94.44	94.25	94.25	94.35	94.15	96.15	96.15	96.65	96.65	95.95	2.50	1.69	1.71	2.40	2.40	No	No	2.0	2.5	Yes	Yes
210	Wabikon Crescent	134	56			94.41	94.33	94.25	94.26	94.31	93.65	95.65	95.65	95.30	95.55	95.16	2.50	1.24	1.32	1.05	1.29	No	No	2.0	1.6	Yes	Yes
210	Wabikon Crescent	132	56			94.41	94.33	94.25	94.26	94.31	93.65	95.65	95.65	95.30	95.55	95.16	2.50	1.24	1.32	1.05	1.29	No	No	2.0	1.6	Yes	Yes
210	Wabikon Crescent	130	56			94.41	94.33	94.25	94.26	94.31	93.65	95.65	95.65	95.30	95.55	95.16	2.50	1.24	1.32	1.05	1.29	No	No	2.0	1.6	Yes	Yes
210	Wabikon Crescent	128	56			94.41	94.33	94.25	94.26	94.31	93.65	95.65	95.65	95.30	95.55	95.16	2.50	1.24	1.32	1.05	1.29	No	No	2.0	1.6	Yes	Yes
210	Wabikon Crescent	126	56			94.41	94.33	94.25	94.26	94.31	93.65	95.65	95.65	95.30	95.55	95.16	2.50	1.24	1.32	1.05	1.29	No	No	2.0	1.6	Yes	Yes
210	Wabikon Crescent	172	57			94.20	94.30	94.35	94.35	94.30	93.40	95.40	95.40	95.30	95.25	94.95	2.50	1.20	1.10	0.95	0.90	No	No	2.0	1.8	Yes	Yes
210	Wabikon Crescent	170	57			94.20	94.30	94.35	94.35	94.30	93.40	95.40	95.40	95.30	95.25	94.95	2.50	1.20	1.10	0.95	0.90	No	No	2.0	1.8	Yes	Yes
210	Wabikon Crescent	168	57			94.20	94.30	94.35	94.35	94.30	93.40	95.40	95.40	95.30	95.25	94.95	2.50	1.20	1.10	0.95	0.90	No	No	2.0	1.8	Yes	Yes
210	Wabikon Crescent	166	57			94.20	94.30	94.35	94.35	94.30	93.40	95.40	95.40	95.30	95.25	94.95	2.50	1.20	1.10	0.95	0.90	No	No	2.0	1.8	Yes	Yes
210	Wabikon Crescent	164	57			94.20	94.30	94.35	94.35	94.30	93.40	95.40	95.40	95.30	95.25	94.95	2.50	1.20	1.10	0.95	0.90	No	No	2.0	1.8	Yes</	

SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
210	Miikana Road	738	4			94.47	94.07	95.26	95.15	94.74	93.07	95.35	95.35	95.40	95.40	94.91	2.50	0.88	1.28	0.14	0.25	No	No	2.3	2.3	Yes	Yes
210	Miikana Road	740	4			94.47	94.07	95.26	95.15	94.74	93.07	95.35	95.35	95.40	95.40	94.91	2.50	0.88	1.28	0.14	0.25	No	No	2.3	2.3	Yes	Yes
210	Miikana Road	742	4			94.47	94.07	95.26	95.15	94.74	93.07	95.35	95.35	95.40	95.40	94.91	2.50	0.88	1.28	0.14	0.25	No	No	2.3	2.3	Yes	Yes
210	Miikana Road	688	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	690	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	692	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	694	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	696	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	698	5			94.80	94.96	94.75	94.85	94.84	93.72	95.99	95.99	95.90	95.50	95.42	2.50	1.19	1.03	1.15	0.65	No	No	2.3	1.8	Yes	Yes
210	Miikana Road	700	5			94.96	94.75	94.85	94.63	94.80	93.28	95.55	95.55	95.48	95.50	95.07	2.50	0.59	0.80	0.63	0.87	No	No	2.3	2.2	Yes	Yes
210	Miikana Road	702	5			94.96	94.75	94.85	94.63	94.80	93.28	95.55	95.55	95.48	95.50	95.07	2.50	0.59	0.80	0.63	0.87	No	No	2.3	2.2	Yes	Yes
210	Miikana Road	704	5			94.96	94.75	94.85	94.63	94.80	93.28	95.55	95.55	95.48	95.50	95.07	2.50	0.59	0.80	0.63	0.87	No	No	2.3	2.2	Yes	Yes
210	Miikana Road	706	5			94.96	94.75	94.85	94.63	94.80	93.28	95.55	95.55	95.48	95.50	95.07	2.50	0.59	0.80	0.63	0.87	No	No	2.3	2.2	Yes	Yes
210	Miikana Road	708	5			94.75	94.47	94.63	94.32	94.54	93.08	95.35	95.35	95.45	95.45	94.94	2.50	0.60	0.88	0.82	1.13	No	No	2.3	2.4	Yes	Yes
210	Miikana Road	710	5			94.75	94.47	94.63	94.32	94.54	93.08	95.35	95.35	95.45	95.45	94.94	2.50	0.60	0.88	0.82	1.13	No	No	2.3	2.4	Yes	Yes
210	Miikana Road	712	5			94.75	94.47	94.63	94.32	94.54	93.08	95.35	95.35	95.45	95.45	94.94	2.50	0.60	0.88	0.82	1.13	No	No	2.3	2.4	Yes	Yes
210	Miikana Road	714	5			94.75	94.47	94.63	94.32	94.54	93.08	95.35	95.35	95.45	95.45	94.94	2.50	0.60	0.88	0.82	1.13	No	No	2.3	2.4	Yes	Yes
210	Spreadwing Way	301	6	1	220	94.84	94.93	94.80	94.77	94.84	94.03	96.30	96.30	96.20	96.20	95.81	2.50	1.46	1.37	1.40	1.43	No	No	2.3	2.2	Yes	Yes
210	Spreadwing Way	303	6	2	221	94.93	94.98	94.77	94.75	94.86	94.03	96.30	96.30	96.05	96.05	95.75	2.50	1.37	1.32	1.28	1.30	No	No	2.3	2.0	Yes	Yes
210	Spreadwing Way	305	6	3	222	94.98	94.98	94.75	94.75	94.87	94.13	96.40	96.40	95.95	95.95	95.77	2.50	1.42	1.42	1.20	1.20	No	No	2.3	1.8	Yes	Yes
210	Spreadwing Way	309	7	4	223	94.98	94.83	94.75	94.75	94.83	94.03	96.30	96.30	95.95	95.95	95.71	2.50	1.32	1.47	1.20	1.20	No	No	2.3	1.9	Yes	Yes
210	Spreadwing Way	311	7	5	224	94.83	94.81	94.75	94.75	94.79	94.10	96.30	96.30	95.80	95.80	95.66	2.50	1.47	1.49	1.05	1.05	No	No	2.2	1.7	Yes	Yes
210	Spreadwing Way	313	7	6	225	94.81	94.82	94.75	94.63	94.75	94.20	96.40	96.40	95.90	95.90	95.76	2.50	1.59	1.58	1.15	1.27	No	No	2.2	1.7	Yes	Yes
210	Spreadwing Way	315	7	7	226	94.82	94.82	94.63	94.69	94.74	94.15	96.35	96.35	96.00	96.00	95.77	2.50	1.53	1.53	1.37	1.31	No	No	2.2	1.8	Yes	Yes
210	Spreadwing Way	317	7	8	227	94.82	94.80	94.69	94.60	94.73	94.05	96.25	96.25	96.10	96.10	95.75	2.50	1.43	1.45	1.41	1.50	No	No	2.2	2.1	Yes	Yes
210	Viceroy Mews	50	8	9	228	94.60	94.53	94.79	94.85	94.69	93.80	96.00	96.00	95.70	95.70	95.44	2.50	1.40	1.47	0.91	0.85	No	No	2.2	1.9	Yes	Yes
210	Viceroy Mews	52	8	10	229	94.53	94.45	94.85	94.63	94.62	93.80	96.00	96.00	95.65	95.65	95.42	2.50	1.47	1.55	0.80	1.02	No	No	2.2	1.9	Yes	Yes
210	Viceroy Mews	54	8	11	230	94.45	94.29	94.63	94.36	94.43	93.80	96.00	96.00	95.50	95.50	95.36	2.50	1.55	1.71	0.87	1.14	No	No	2.2	1.7	Yes	Yes
210	Viceroy Mews	56	8	12	231	94.29	94.25	94.36	94.32	94.31	93.65	95.85	95.85	95.50	95.50	95.27	2.50	1.56	1.60	1.14	1.18	No	No	2.2	1.8	Yes	Yes
210	Viceroy Mews	58	8	13	232	94.25	94.24	94.32	94.28	94.27	93.65	95.85	95.85	95.45	95.45	95.25	2.50	1.60	1.61	1.13	1.17	No	No	2.2	1.8	Yes	Yes
210	Viceroy Mews	60	8	14	233	94.24	94.25	94.28	94.25	94.26	93.60	95.80	95.80	95.45	95.45	95.22	2.50	1.56	1.55	1.17	1.20	No	No	2.2	1.9	Yes	Yes
210	Viceroy Mews	62	8	15	234	94.25	94.36	94.25	94.25	94.28	93.50	95.70	95.70	95.55	95.55	95.20	2.50	1.45	1.34	1.30	1.30	No	No	2.2	2.1	Yes	Yes
210	Viceroy Mews	64	8	16	235	94.36	95.30	94.25	94.25	94.54	93.50	95.70	95.70	95.65	95.65	95.24	2.50	1.34	0.40	1.40	1.40	No	No	2.2	2.2	Yes	Yes
210	Viceroy Mews	71	9	17	236	94.63	94.73	94.94	96.14	95.11	93.61	95.81	95.81	96.05	96.05	95.47	2.50	1.18	1.08	1.11	-0.09	No	No	2.2	2.4	Yes	Yes
210	Viceroy Mews	69	9	18	237	94.50	94.63	94.75	94.94	94.71	93.56	95.76	95.76	95.95	95.95	95.40	2.50	1.26	1.13	1.20	1.01	No	No	2.2	2.4	Yes	Yes
210	Viceroy Mews	67	9	19	238	94.50	94.50	94.72	94.75	94.62	93.55	95.75	95.75	95.91	95.91	95.37	2.50	1.25	1.25	1.19	1.16	No	No	2.2	2.4	Yes	Yes
210	Viceroy Mews	65	9	20	239	94.49	94.50	94.70	94.72	94.60	93.60	95.80															

SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
210	Spreadwing Way	314	11	33	252	95.00	94.99	95.61	95.53	95.28	94.20	96.40	96.40	96.45	96.45	95.98	2.50	1.40	1.41	0.84	0.92	No	No	2.2	2.3	Yes	Yes
210	Spreadwing Way	312	11	34	253	95.12	95.00	95.60	95.61	95.33	94.13	96.40	96.40	96.40	96.40	95.95	2.50	1.28	1.40	0.80	0.79	No	No	2.3	2.3	Yes	Yes
210	Spreadwing Way	310	12	35	254	95.27	95.12	96.61	95.60	95.65	94.08	96.35	96.35	96.40	96.40	95.92	2.50	1.08	1.23	-0.21	0.80	No	No	2.3	2.3	Yes	Yes
210	Spreadwing Way	308	12	36	255	95.32	95.27	95.58	96.61	95.70	94.13	96.40	96.40	96.40	96.40	95.95	2.50	1.08	1.13	0.82	-0.21	No	No	2.3	2.3	Yes	Yes
210	Spreadwing Way	306	12	37	256	95.27	95.32	95.63	95.58	95.45	94.23	96.50	96.50	96.40	96.40	96.01	2.50	1.23	1.18	0.77	0.82	No	No	2.3	2.2	Yes	Yes
210	Spreadwing Way	304	12	38	257	95.17	95.27	95.57	95.63	95.41	94.23	96.50	96.50	96.35	96.35	95.99	2.50	1.33	1.23	0.78	0.72	No	No	2.3	2.1	Yes	Yes
210	Spreadwing Way	302	12	39	258	95.05	95.17	95.46	95.57	95.31	94.13	96.40	96.40	96.35	96.35	95.93	2.50	1.35	1.23	0.89	0.78	No	No	2.3	2.2	Yes	Yes
210	Spreadwing Way	300	12	40	259	94.96	95.05	95.29	95.46	95.19	94.08	96.35	96.35	96.35	96.35	95.90	2.50	1.39	1.30	1.06	0.89	No	No	2.3	2.3	Yes	Yes
210	Omakagi Way	901	13	41	260	95.29	95.59	95.29	95.51	95.42	94.23	96.50	96.50	96.35	96.35	95.99	2.50	1.21	0.91	1.06	0.84	No	No	2.3	2.1	Yes	Yes
210	Omakagi Way	903	13	42	261	95.59	95.96	95.51	95.62	95.67	94.43	96.70	96.70	96.35	96.35	96.11	2.50	1.11	0.74	0.84	0.73	No	No	2.3	1.9	Yes	Yes
210	Omakagi Way	905	13	43	262	95.96	96.10	95.62	95.61	95.82	94.93	97.20	97.20	96.45	96.45	96.45	2.50	1.24	1.10	0.83	0.84	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	907	13	44	263	96.10	96.09	95.61	95.58	95.85	95.08	97.35	97.35	96.60	96.60	96.60	2.50	1.25	1.26	0.99	1.02	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	909	13	45	264	96.09	96.08	95.58	95.58	95.83	95.18	97.45	97.45	96.68	96.68	96.69	2.50	1.36	1.37	1.10	1.10	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	911	14	46	265	96.08	96.06	95.58	95.59	95.83	95.23	97.50	97.50	96.70	96.70	96.73	2.50	1.42	1.44	1.12	1.11	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	913	14	47	266	96.06	96.07	95.59	95.62	95.84	95.18	97.45	97.45	96.68	96.68	96.69	2.50	1.39	1.38	1.09	1.06	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	915	14	48	267	96.07	96.16	95.62	95.60	95.86	95.23	97.50	97.50	96.73	96.73	96.74	2.50	1.43	1.34	1.11	1.13	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	917	14	49	268	96.16	96.29	95.60	95.60	95.91	95.23	97.50	97.50	96.73	96.73	96.74	2.50	1.34	1.21	1.13	1.13	No	No	2.3	1.5	Yes	Yes
211	Omakagi Way	920	20	50	269	96.25	96.38	96.41	96.49	96.38	95.31	97.60	97.60	97.65	97.65	97.16	2.50	1.35	1.22	1.24	1.16	No	No	2.3	2.3	Yes	Yes
211	Omakagi Way	918	20	51	270	96.23	96.25	96.41	96.41	96.33	95.33	97.60	97.60	97.65	97.65	97.17	2.50	1.37	1.35	1.24	1.24	No	No	2.3	2.3	Yes	Yes
211	Omakagi Way	916	20	52	271	96.20	96.23	96.48	96.44	96.34	95.33	97.60	97.60	97.60	97.60	97.15	2.50	1.40	1.37	1.12	1.16	No	No	2.3	2.3	Yes	Yes
211	Omakagi Way	914	20	53	272	96.24	96.20	96.77	96.48	96.42	95.33	97.60	97.60	97.50	97.50	97.11	2.50	1.36	1.40	0.73	1.02	No	No	2.3	2.2	Yes	Yes
211	Omakagi Way	912	20	54	273	96.30	96.24	97.07	96.77	96.60	95.33	97.60	97.60	97.50	97.50	97.11	2.50	1.30	1.36	0.43	0.73	No	No	2.3	2.2	Yes	Yes
211	Omakagi Way	910	21	55	274	96.42	96.30	97.11	97.07	96.73	95.33	97.60	97.60	97.35	97.35	97.05	2.50	1.18	1.30	0.24	0.28	No	No	2.3	2.0	Yes	Yes
211	Omakagi Way	908	21	56	275	96.37	96.42	96.76	97.11	96.67	95.28	97.55	97.55	97.35	97.35	97.02	2.50	1.18	1.13	0.59	0.24	No	No	2.3	2.1	Yes	Yes
211	Omakagi Way	906	21	57	276	96.26	96.37	96.34	96.76	96.43	94.88	97.15	97.15	97.10	97.10	96.68	2.50	0.89	0.78	0.76	0.34	No	No	2.3	2.2	Yes	Yes
211	Omakagi Way	904	21	58	277	96.03	96.26	96.96	96.34	96.40	94.83	97.10	97.10	96.70	96.70	96.49	2.50	1.07	0.84	-0.26	0.36	No	No	2.3	1.9	Yes	Yes
211	Miikana Road	660	22	59	278	95.29	95.37	96.03	96.03	95.68	94.18	96.45	96.45	96.55	96.55	96.04	2.50	1.16	1.08	0.52	0.52	No	No	2.3	2.4	Yes	Yes
211	Miikana Road	658	22	60	279	95.28	95.29	95.96	96.03	95.64	94.13	96.40	96.40	96.52	96.52	95.99	2.50	1.12	1.11	0.56	0.49	No	No	2.3	2.4	Yes	Yes
211	Miikana Road	656	22	61	280	95.30	95.28	95.81	95.96	95.59	94.18	96.45	96.45	96.52	96.52	96.02	2.50	1.15	1.17	0.71	0.56	No	No	2.3	2.3	Yes	Yes
211	Miikana Road	654	22	62	281	95.24	95.30	95.71	95.81	95.52	94.18	96.45	96.45	96.52	96.52	96.02	2.50	1.21	1.15	0.81	0.71	No	No	2.3	2.3	Yes	Yes
211	Dun Skipper Drive	12	23	63	282	95.71	95.98	95.96	96.19	95.96	94.81	97.08	97.08	96.60	96.60	96.43	2.50	1.37	1.10	0.64	0.41	No	No	2.3	1.8	Yes	Yes
211	Dun Skipper Drive	14	23	64	283	95.98	96.24	96.19	96.43	96.21	95.23	97.50	97.50	96.90	96.90	96.81	2.50	1.52	1.26	0.71	0.47	No	No	2.3	1.7	Yes	Yes
211	Dun Skipper Drive	16	23	65	284	96.24	96.55	96.43	96.66	96.47	95.38	97.65	97.65	97.25	97.25	97.04	2.50	1.41	1.10	0.82	0.59	No	No	2.3	1.9	Yes	Yes
211	Dun Skipper Drive	18	23	66	285	96.55	96.91	96.66	96.75	96.72	95.68	97.95	97.95	97.50	97.50	97.32	2.50	1.40	1.04	0.84	0.75	No	No	2.3	1.8	Yes	Yes
211	Dun Skipper Drive	20	23	67	286	96.91	97.30	96.75	97.08	97.01	95.73	98.00	98.00	97.55	97.55	97.37	2.50	1.09	0.70	0.80	0.47	No	No	2.3	1.8	Yes	Yes
211	D																										

SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
212	Ginebik Way	282		45	312	97.14	96.99	97.93	98.09	97.54	95.93	98.20	98.20	98.25	98.25	97.77	2.50	1.06	1.21	0.32	0.16	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	280		46	313	96.99	97.00	98.09	97.94	97.51	95.98	98.25	98.25	98.25	98.25	97.80	2.50	1.26	1.25	0.16	0.31	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	278		47	314	97.00	96.72	97.94	97.66	97.33	95.98	98.25	98.25	98.25	98.25	97.80	2.50	1.25	1.53	0.31	0.59	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	276		48	315	96.72	96.57	97.66	97.56	97.13	95.98	98.25	98.25	98.30	98.30	97.82	2.50	1.53	1.68	0.64	0.74	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	274		49	316	96.57	96.70	97.56	97.52	97.09	95.98	98.25	98.25	98.30	98.30	97.82	2.50	1.68	1.55	0.74	0.78	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	272		50	317	96.70	96.60	97.52	97.23	97.01	95.93	98.20	98.20	98.30	98.30	97.79	2.50	1.50	1.60	0.78	1.07	No	No	2.3	2.4	Yes	Yes
212	Ginebik Way	270		51	318	96.60	96.60	97.23	97.23	96.92	95.98	98.25	98.25	98.30	98.30	97.82	2.50	1.65	1.65	1.07	1.07	No	No	2.3	2.3	Yes	Yes
212	Ginebik Way	271	35	99	323	96.51	96.44	96.10	96.06	96.28	95.83	98.10	98.10	97.00	97.00	97.21	2.50	1.59	1.66	0.90	0.94	No	No	2.3	1.2	Yes	Not Compliant
212	Ginebik Way	273	35	100	324	96.44	96.43	96.06	96.00	96.23	95.83	98.10	98.10	97.00	97.00	97.21	2.50	1.66	1.67	0.94	1.00	No	No	2.3	1.2	Yes	Not Compliant
212	Ginebik Way	275	35	101	325	96.43	96.50	96.00	96.15	96.27	95.78	98.05	98.05	96.95	96.95	97.16	2.50	1.62	1.55	0.95	0.80	No	No	2.3	1.2	Yes	Not Compliant
212	Ginebik Way	277	35	102	326	96.50	96.52	96.15	96.11	96.32	95.78	98.05	98.05	96.95	96.95	97.16	2.50	1.55	1.53	0.80	0.84	No	No	2.3	1.2	Yes	Not Compliant
212	Ginebik Way	279	35	103	327	96.52	96.47	96.11	95.97	96.27	95.78	98.05	98.05	96.90	96.90	97.14	2.50	1.53	1.58	0.79	0.93	No	No	2.3	1.1	Yes	Not Compliant
212	Ginebik Way	281	35	104	328	96.47	96.41	95.97	95.80	96.16	95.78	98.05	98.05	96.95	96.95	97.16	2.50	1.58	1.64	0.98	1.15	No	No	2.3	1.2	Yes	Not Compliant
212	Ginebik Way	283	35	105	329	96.41	96.38	95.80	95.74	96.08	95.73	98.00	98.00	96.75	96.75	97.05	2.50	1.59	1.62	0.95	1.01	No	No	2.3	1.0	Yes	Not Compliant
212	Ginebik Way	285	35	106	330	96.38	96.20	95.74	95.65	95.99	95.73	98.00	98.00	96.95	96.95	97.13	2.50	1.62	1.80	1.21	1.30	No	No	2.3	1.2	Yes	Not Compliant
212	Miikana Road	650	36	107	331	95.45	95.51	95.65	95.74	95.59	94.23	96.50	96.50	96.55	96.55	96.07	2.50	1.05	0.99	0.90	0.81	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	648	36	108	332	95.51	95.60	95.74	95.80	95.66	94.23	96.50	96.50	96.60	96.60	96.09	2.50	0.99	0.90	0.86	0.80	No	No	2.3	2.4	Yes	Yes
212	Miikana Road	646	36	109	333	95.60	95.62	95.80	95.97	95.75	94.23	96.50	96.50	96.60	96.60	96.09	2.50	0.90	0.88	0.80	0.63	No	No	2.3	2.4	Yes	Yes
212	Miikana Road	644	36	110	334	95.62	95.66	95.97	95.97	95.81	94.38	96.65	96.65	96.70	96.70	96.22	2.50	1.03	0.99	0.73	0.73	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	642	36	111	335	95.66	95.70	95.97	96.11	95.86	94.48	96.75	96.75	96.70	96.70	96.28	2.50	1.09	1.05	0.73	0.59	No	No	2.3	2.2	Yes	Yes
212	Miikana Road	640	36	112	336	95.70	95.74	96.11	96.15	95.93	94.43	96.70	96.70	96.70	96.70	96.25	2.50	1.00	0.96	0.59	0.55	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	638	36	113	337	95.74	95.75	96.15	96.15	95.95	94.40	96.67	96.67	96.75	96.75	96.25	2.50	0.93	0.92	0.60	0.60	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	636	36	114	338	95.75	95.75	96.15	96.00	95.91	94.38	96.65	96.65	96.76	96.76	96.24	2.50	0.90	0.90	0.61	0.76	No	No	2.3	2.4	Yes	Yes
212	Miikana Road	634	36	115	339	95.75	95.77	96.00	96.06	95.90	94.43	96.70	96.70	96.76	96.76	96.27	2.50	0.95	0.93	0.76	0.70	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	632	36	116	340	95.77	95.76	96.06	96.08	95.92	94.48	96.75	96.75	96.80	96.80	96.32	2.50	0.98	0.99	0.74	0.72	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	630	36	117	341	95.76	95.76	96.08	96.11	95.93	94.58	96.85	96.85	96.80	96.80	96.38	2.50	1.09	1.09	0.72	0.69	No	No	2.3	2.2	Yes	Yes
212	Miikana Road	628	37	118	342	95.76	95.79	96.11	96.13	95.95	94.58	96.85	96.85	96.80	96.80	96.38	2.50	1.09	1.06	0.69	0.67	No	No	2.3	2.2	Yes	Yes
212	Miikana Road	626	37	119	343	95.79	95.90	96.13	96.20	96.01	94.51	96.78	96.78	96.85	96.85	96.35	2.50	0.99	0.88	0.72	0.65	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	624	37	120	344	95.90	96.12	96.20	96.47	96.17	94.58	96.75	96.75	96.85	96.85	96.36	2.50	0.85	0.63	0.65	0.38	No	No	2.2	2.3	Yes	Yes
212	Miikana Road	622	37	121	345	96.12	96.42	96.47	96.48	96.37	95.08	97.35	97.35	97.15	97.15	96.82	2.50	1.23	0.93	0.68	0.67	No	No	2.3	2.1	Yes	Yes
212	Miikana Road	620	37	122	346	96.42	96.45	96.48	96.28	96.41	95.33	97.60	97.60	97.50	97.50	97.11	2.50	1.18	1.15	1.02	1.22	No	No	2.3	2.2	Yes	Yes
212	Miikana Road	619	42	123	347	96.23	96.21	96.23	96.23	96.23	95.33	97.60	97.60	97.40	97.40	97.07	2.50	1.37	1.39	1.17	1.17	No	No	2.3	2.1	Yes	Yes
212	Miikana Road	621	42	124	348	96.21	96.16	96.23	95.99	96.15	95.03	97.30	97.30	97.00	97.00	96.73	2.50	1.09	1.14	0.77	1.01	No	No	2.3	2.0	Yes	Yes
212	Miikana Road	623	42	125	349	96.16	95.98	95.99	95.99	96.03	94.65	97.00	97.00	96.90	96.90	96.49	2.50	0.84	1.02	0.91	0.91	No	No	2.3	2.3	Yes	Yes
212	Miikana Road	625	42	126	350	95.98	95.85	95.99	95.87	95.92	94.53	96.80	96.80	96.85	96.85	96.37	2.50	0.82	0.95	0.86	0.98	No	No	2.3	2.3	Yes	Yes
212	Ninaatik Place	806	43	127	351	95.98	96.02	95.87	95.99	95.97	94.88	97.15	97.15	97.05	97.05	96.66	2.50	1.17	1.13	1.18	1.06	No	No	2.3	2.2	Yes	Yes
212	Ninaatik Place	804	43	128	352	96.02	96.30	95.99	96.19	96.13	94.93	97.20	97.20	96.95	96.95	96.65	2.50	1.18	0.90	0.96	0.76	No	No	2.3	2.0	Yes	Yes
212	Ninaatik Place	802	43	129	353	96.30	96.17	96.19	96.23	96.22	95.43	97.70	97.70	97.30	97.30	97.09	2.50	1.40	1.53	1.11	1.07	No	No	2.3	1.9	Yes	Yes
212	Ninaatik Place	800	43	130	354	96.17	96.34	96.23	96.23	96.24	95.58	97.85	97.85	97.60	97.60	97.30	2.50	1.68	1.51	1.37	1.37	No	No	2.3	2.0	Yes	Yes



SUMMARY OF DESIGN DETAILS

Grading Plan Summary for
Pathways Phase 2
Leitrim South Holdings Inc.

JOB #: 20142688-1147
DATE: 6/30/2020

REVIEWED
By Terri Hunt at 2:44 pm, Sep 20, 2021

Reference Drawing No.	Street Name	Street #	Block #	Part #	Lot #	Existing Grades					USF	Proposed Finished Grades					Grade Raise Limit	Calculated Grade Raises				Exceeding Front Grade Raise Limit?	Exceeding Rear Grade Raise Limit?	USF From Lowest Proposed Front Grade	USF From Lowest Proposed Rear Grade	Front Frost Protection Sufficient (USF > 1.8 m Below Finished Grade)	Rear Frost Protection Sufficient (USF > 1.5 m Below Finished Grade)
						FL	FR	RL	RR	AVE		FL	FR	RL	RR	AVE		FL	FR	RL	RR						
212	Paakanaak Avenue	588		6	360	96.50	96.50	96.45	96.46	96.48	96.43	98.70	98.70	98.20	98.20	98.05	2.50	2.20	2.20	1.75	1.74	No	No	2.3	1.8	Yes	Yes
212	Paakanaak Avenue	586		7	361	96.50	96.50	96.46	96.48	96.49	96.33	98.60	98.60	98.10	98.10	97.95	2.50	2.10	2.10	1.64	1.62	No	No	2.3	1.8	Yes	Yes
212	Paakanaak Avenue	584		8	362	96.50	97.00	96.48	96.91	96.72	96.33	98.60	98.60	98.00	98.00	97.91	2.50	2.10	1.60	1.52	1.09	No	No	2.3	1.7	Yes	Yes
212	Paakanaak Avenue	582		9	363	97.00	97.00	96.91	96.91	96.96	96.48	98.75	98.75	98.20	98.20	98.08	2.50	1.75	1.75	1.29	1.29	No	No	2.3	1.7	Yes	Yes
212	Paakanaak Avenue	600	41	93	355	96.64	96.38	96.34	96.50	96.47	96.53	98.80	98.80	98.20	98.20	98.11	2.50	2.16	2.42	1.86	1.70	No	No	2.3	1.7	Yes	Yes
212	Paakanaak Avenue	598	41	94	356	96.38	96.34	96.50	96.50	96.43	96.43	98.70	98.70	98.00	98.00	97.97	2.50	2.32	2.36	1.50	1.50	No	No	2.3	1.6	Yes	Yes
212	Paakanaak Avenue	596	41	95	357	96.34	96.33	96.50	96.50	96.42	96.33	98.60	98.60	97.85	97.85	97.85	2.50	2.26	2.27	1.35	1.35	No	No	2.3	1.5	Yes	Yes
212	Paakanaak Avenue	594	41	96	358	96.33	96.34	96.50	96.23	96.35	96.38	98.65	98.65	98.00	98.00	97.94	2.50	2.32	2.31	1.50	1.77	No	No	2.3	1.6	Yes	Yes
212	Paakanaak Avenue	592	41	97	359	96.34	96.33	96.23	96.23	96.28	96.48	98.75	98.75	98.00	98.00	98.00	2.50	2.41	2.42	1.77	1.77	No	No	2.3	1.5	Yes	Yes
212	Gartersnake Way	75	44			96.63	95.67	96.07	95.85	96.06	94.47	96.74	96.74	96.84	96.75	96.31	2.50	0.11	1.07	0.77	0.90	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	77	44			96.63	95.67	96.07	95.85	96.06	94.47	96.74	96.74	96.84	96.75	96.31	2.50	0.11	1.07	0.77	0.90	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	79	44			96.63	95.67	96.07	95.85	96.06	94.47	96.74	96.74	96.84	96.75	96.31	2.50	0.11	1.07	0.77	0.90	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	81	44			95.71	95.63	95.87	96.07	95.82	94.63	96.90	96.90	96.85	96.90	96.44	2.50	1.19	1.27	0.98	0.83	No	No	2.3	2.2	Yes	Yes
212	Gartersnake Way	83	44			95.71	95.63	95.87	96.07	95.82	94.63	96.90	96.90	96.85	96.90	96.44	2.50	1.19	1.27	0.98	0.83	No	No	2.3	2.2	Yes	Yes
212	Gartersnake Way	85	44			95.71	95.63	95.87	96.07	95.82	94.63	96.90	96.90	96.85	96.90	96.44	2.50	1.19	1.27	0.98	0.83	No	No	2.3	2.2	Yes	Yes
212	Gartersnake Way	87	44			95.71	95.63	95.87	96.07	95.82	94.63	96.90	96.90	96.85	96.90	96.44	2.50	1.19	1.27	0.98	0.83	No	No	2.3	2.2	Yes	Yes
212	Gartersnake Way	89	44			95.89	95.71	95.98	95.87	95.86	94.67	96.94	96.94	97.05	97.00	96.52	2.50	1.05	1.23	1.07	1.13	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	91	44			95.89	95.71	95.98	95.87	95.86	94.67	96.94	96.94	97.05	97.00	96.52	2.50	1.05	1.23	1.07	1.13	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	93	44			95.89	95.71	95.98	95.87	95.86	94.67	96.94	96.94	97.05	97.00	96.52	2.50	1.05	1.23	1.07	1.13	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	95	44			95.89	95.71	95.98	95.87	95.86	94.67	96.94	96.94	97.05	97.00	96.52	2.50	1.05	1.23	1.07	1.13	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	90	45			95.99	95.66	95.88	95.78	95.83	94.43	96.70	96.70	96.70	96.70	96.25	2.50	0.71	1.04	0.82	0.92	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	92	45			95.99	95.66	95.88	95.78	95.83	94.43	96.70	96.70	96.70	96.70	96.25	2.50	0.71	1.04	0.82	0.92	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	94	45			95.99	95.66	95.88	95.78	95.83	94.43	96.70	96.70	96.70	96.70	96.25	2.50	0.71	1.04	0.82	0.92	No	No	2.3	2.3	Yes	Yes
212	Gartersnake Way	96	45			95.99	95.66	95.88	95.78	95.83	94.43	96.70	96.70	96.70	96.70	96.25	2.50	0.71	1.04	0.82	0.92	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	746	2			94.08	93.95	95.15	94.20	94.35	93.03	95.30	95.30	95.35	95.30	94.86	2.50	1.22	1.35	0.20	1.10	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	748	2			94.08	93.95	95.15	94.20	94.35	93.03	95.30	95.30	95.35	95.30	94.86	2.50	1.22	1.35	0.20	1.10	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	750	2			94.08	93.95	95.15	94.20	94.35	93.03	95.30	95.30	95.35	95.30	94.86	2.50	1.22	1.35	0.20	1.10	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	752	2			94.08	93.95	95.15	94.20	94.35	93.03	95.30	95.30	95.35	95.30	94.86	2.50	1.22	1.35	0.20	1.10	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	754	2			94.08	93.95	95.15	94.20	94.35	93.03	95.30	95.30	95.35	95.30	94.86	2.50	1.22	1.35	0.20	1.10	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	756	2			93.95	94.25	94.20	94.52	94.23	93.03	95.30	95.30	95.30	95.30	94.85	2.50	1.35	1.05	1.10	0.78	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	758	2			93.95	94.25	94.20	94.52	94.23	93.03	95.30	95.30	95.30	95.30	94.85	2.50	1.35	1.05	1.10	0.78	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	760	2			93.95	94.25	94.20	94.52	94.23	93.03	95.30	95.30	95.30	95.30	94.85	2.50	1.35	1.05	1.10	0.78	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	762	2			93.95	94.25	94.20	94.52	94.23	93.03	95.30	95.30	95.30	95.30	94.85	2.50	1.35	1.05	1.10	0.78	No	No	2.3	2.3	Yes	Yes
213	Miikana Road	764	2			94.25	93.95	94.52	94.41	94.28	93.08	95.35	95.35	95.30	95.22	94.86	2.50	1.10	1.40	0.78	0.81	No	No	2.3	2.1	Yes	Yes
213	Miikana Road	766	2			94.25	93.95	94.52	94.41	94.28	93.08	95.35	95.35	95.30	95.22	94.86	2.50	1.10	1.40	0.78	0.81	No	No	2.3	2.1	Yes	Yes
213	Miikana Road	768	2			94.25	93.95	94.52	94.41	94.28	93.08	95.35	95.35	95.35	95.22	94.87	2.50	1.10	1.40	0.83	0.81	No	No	2.3	2.1	Yes	Yes
213	Miikana Road	770	2			94.25	93.95	94.52																			