



Also Doing Business As (DBA):



Kenneth D. Ellsworth, P.E.
Managing Member

Paul L. Bedford, AIA
Architect

Rodney L. Carey, L.S.
Land Surveyor

Kordian W. Wichtowski, R.A.
Architect

September 6, 2016

Mr. Michael G. Rielly, P.E.
Project Manager
RETTEW Engineering & Surveying, P.C.
97 Main Street, Suite I
Delhi, New York 13753

RE: Miron Hills
Construction Inspection
SBL No. 60-I-70.I

Dear Mr. Rielly:

We completed an inspection at the above referenced project on August 13, 2016 in accordance with the Town's request.

With GPS, we determined the actual grade elevations for Roads A, B and C at the stations indicated. Please refer to the attached tables comparing the actual grade with the designed subgrade and the difference between them. A (+) indicates the grade is currently high. The road should be graded to within an inch (0.08) of design grade. We will check the grade when the contractor has completed grading. We request to witness the proof rolling of the subgrade prior to placement of the gravel subbase. Proof rolling of the gravel will also be required prior to placement of the asphalt.

Also documented during our inspection, we noted:

1. FES-I6 and the stone rip rap has not been installed. Also, the check dam was not constructed below FES-I6. Please install for erosion control.
2. The two (2) 24" x 38" HERCP crossings on both Road A and C have been replaced with a stone bridge with an opening of 3' x 3'.. We are concerned with longevity of the bridge and hydraulic capacity. Please review and provide computations for hydraulics if you are accepting the above.
3. The two (2) 54" RCP crossing Road B at station 3+40 have also been replaced with a stone bridge with an opening of 4' x 3.5'. Please review as required in item No. 2 above.

If you have any questions, please do not hesitate to contact our office.

Very Truly Yours,

Keystone Associates
Architects, Engineers & Surveyors, LLC



Kenneth D. Ellsworth, P.E.
Managing Member

KDE:mlw

CC: William Illing, P.E.
Mollie Messenger
Paula Kay
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Road A

<u>Station</u>	<u>Finsh Design Elevation</u>	<u>Grade</u>	<u>Subgrade Design Elevation</u>	<u>Δ</u>
0+00	1307.71			
1+00	1309.26	1307.88	1308.34	-0.46
2+00	1310.99	1310.43	1310.07	0.36
3+00	1311.66	1311.05	1310.74	0.31
4+00	1311.34	1310.20	1310.42	-0.22
5+00	1310.84	1308.20	1309.92	-1.72
6+00	1310.34	1308.06	1309.42	-1.36
7+00	1309.84	1309.00	1308.92	0.08
8+00	1310.01	1310.12	1309.09	1.03
9+00	1312.48	1313.70	1311.56	2.14
10+00	1317.25	1317.37	1316.33	1.04

Road Section:

1" Top

2" Binder

8" Subbase

11" = 0.92'

Road C

<u>Station</u>	<u>Finish Design Elevation</u>	<u>Grade</u>	<u>Subgrade Design Elevation</u>	<u>Δ</u>
0+00	1330.00			
1+00	1334.23	1333.80	1333.31	0.49
2+00	1340.78	1338.90	1339.86	-0.96
3+00	1343.56	1341.00	1342.64	-1.64
4+00	1339.53	1338.40	1338.61	-0.21
5+00	1332.44	1333.60	1331.52	2.08
6+00	1325.46	1328.10	1324.54	3.56
7+00	1320.78	1325.80	1319.86	5.94
8+00	1319.30	1321.60	1318.38	3.22

Road Section:

1" Top

2" Binder

8" Subbase

11" = 0.92'

Road B

<u>Station</u>	<u>Finish Design Elevation</u>	<u>Grade</u>	<u>Subgrade Design Elevation</u>	<u>Δ</u>
0+00	1311.02	1309.50	1310.1	-0.60
1+00	1305.94	1302.60	1305.02	-2.42
2+00	1297.14	1295.80	1296.22	-0.42
3+00	1292.97	1289.60	1292.05	-2.45

Road Section:

1" Top

2" Binder

8" Subbase

11" = 0.92'