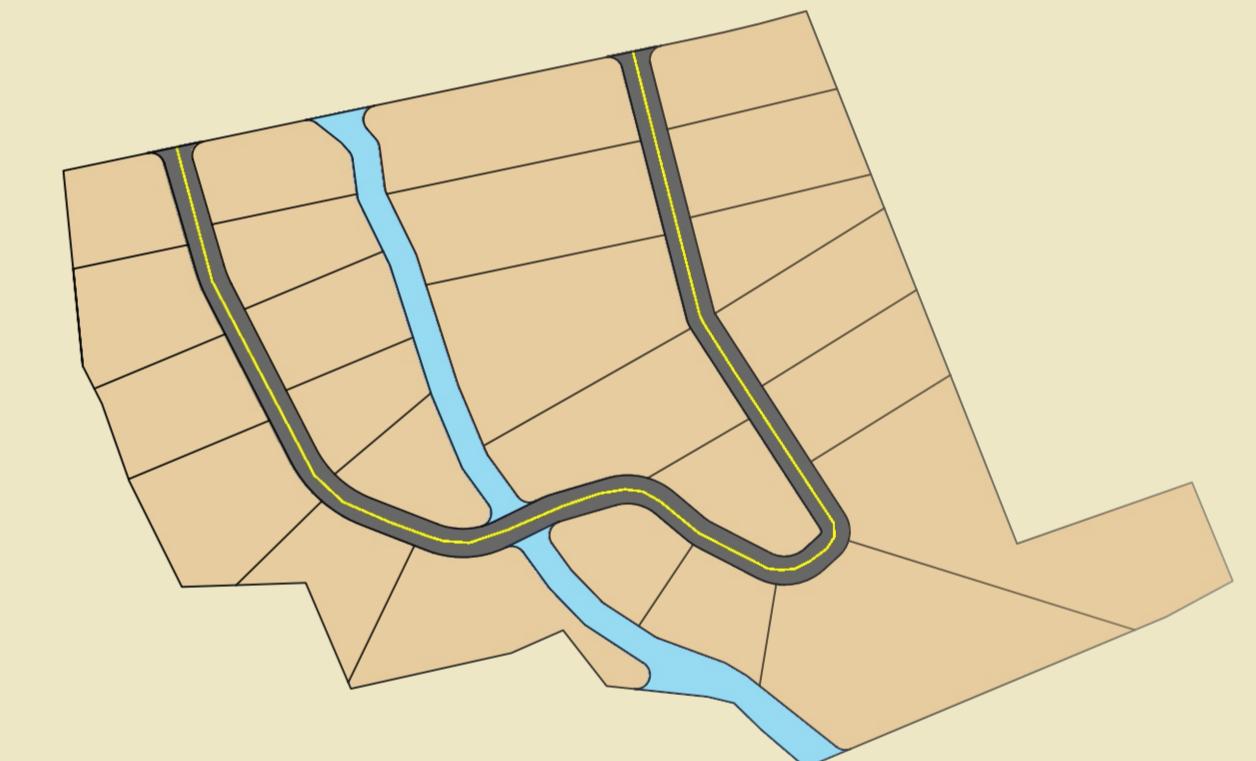


# DELUSION PARK SUBDIVISION

*Proposed Engineering Plan Book*



Katie Chute

COGS | **nscc**

AutoCAD Civil 3D | COEP 3020

# TABLE OF CONTENTS

## *Drawing 1- Plan of Proposed Road Alignment*

In creating this drawing a surface dataset was imported, which then was used to create a road alignment and to display contour intervals for the Delusion Park Subdivision location. Another dataset was imported, that data was used to display the boundary for this location was used to show the extent of this location, the road and also the stream that runs through the property. The road alignment was then created by using coordinates that were provided. The table on the map shows the measured angles, lengths and directions.

## *Drawing 2 - Plan of Proposed Road Alignment Profiles*

This drawing shows a profile for a proposed road alignment for the Delusion Park Subdivision. The alignment was created using the surface information for the area which then was used to create this profile. This profile was built to not exceed a slope incline of 6% maximum (4% maximum if possible). In the creation of this profile a sag curve K value of 15 and a crest curve value of 22 was used. The County of Annapolis standards is where these values were retrieved from. The goal in creating this profile was to reduce the amount of cut and fill that would be required for building this proposed road. A portion of the profile and the section of the road alignment that goes with the profile is what is being displayed in this drawing.

## *Drawing 3a - Plan of Proposed Road Corridor &*

## *Drawing 3b - Proposed Road Section View*

The drawing 3a shows the road corridor for the Delusion Park Subdivision proposed road. The first of several steps was to assemble a crowned lane at the centerline of the road, a daylight basin, and an urban curb gutter. In the creation of the corridor the alignment, the assembled pieces from above, and also the profile. The number of curves and tangents were set to 10 meters. A new surface was built for the corridor in order to implement information on the new surface's volume. The existing surface and the volume surface from the corridor were created to compare both surfaces. A report which encompasses the data that was generated, was then exported as an .html file. The drawing 3b shows the information from the report. This drawing also shows a section view that was built by first generating the sample lines across the alignment itself. Then by selecting these lines the section views were could be created. This section view displays the surface volume information from the proposed corridor surface.

## *Drawing 4a - Preliminary Plan of Proposed Subdivision &*

## *Drawing 4b - Parcel Lines, Curves and Area Tables*

Drawing 4a shows the parcels that have been created by using the new ground surface that was created. The alignment of the stream, which was running across the proposed subdivision, has been created and also a right of way has been created along the stream and proposed road alignment. Using The Municipality of the County of Kings Bylaw regulations each parcel was subdivided with a minimum area of 4645.15 square meters. and a minimum frontage of 60.960 meters along with the frontage offset. There was also a minimum depth and width of 50 meters. The land that was left over was then redistributed evenly throughout all of the subdivided parcels. All the lengths, angles and directions of all the parcels were labeled for each line in order to provide more detail information for the development of the proposed Delusion Park Subdivision. The drawing 4b shows length, angles and directions information in a table format alongside the corresponding labels.

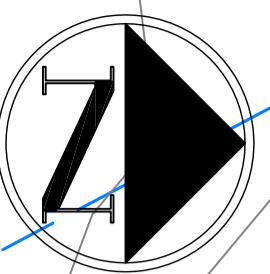
## *Drawing 5 - Plan of Proposed Rain Garden*

This drawing shows a proposed rain garden for the Delusion Park Subdivision, the rain garden was created using the finished ground surface set to display at 0.25 meters and 1.25 meters. The elevation of the pond was changed to 91 meters for a better runoff and the grading was done to make sure that the bottom of the rain garden was even and the top outer edge was flat so no water could pool. A TIN volume surface was created to compare two surfaces and also to calculate a volume. A true comparison volume when all of the points from each surfaces are used to then calculate the differences in elevation that are then used to create this volume surface and calculate the volumes. This drawing shows the slope inside of the rain garden and also outside of the rain garden.

## *Drawing 6a - Plan of Proposed Piping &*

## *Drawing 6b - Piping, Manholes, Catch Basins, and Headwall Tables*

Drawing 6a shows a storm water pipe network proposed for the Delusion Park Subdivision, located at the uppermost slope of the proposed road. This will drain the surplus water down into the headwall. All the manholes found in this storm water pipe network are composed of 1,200 millimeter cylindrical structures and the pipes are composed of 300 millimeter cylindrical pipes. Both the pipes and manholes have been placed at the midpoint of proposed road alignment centerline and the edge of the road. Pipes were placed along the road alignment as to keep the length to 120 meters with a minimum slope of 1.5% and also a maximum slope of 4% and the manhole sump depths have been modified from 2 meters to 0.15 meters. This drawing also shows a profile, this profile shows existing ground, the proposed road, and where the manholes and pipes can be found along the proposed road. Drawing 6b shows the corresponding structure name, the details of that manhole(STMH) and catch basin (STCB), the pipes coming into the manhole/catch basin and also the pipes leading out of the manhole/catch basin. The tables shown in this drawing show two different sections. The tables named Storm Phase 1 goes with the network that runs along the proposed road alignment and Storm Phase 2 goes with the network that runs from the proposed road alignment to the proposed rain garden.



50  
0  
50  
100  
11250  
Metres

PC: 0+100.43  
PT: 0+108.46  
Mid: 0+106.00  
L10

PC: 0+116.50  
PT: 0+116.50  
Mid: 0+116.50  
L11

PC: 0+246.76  
PT: 0+246.76  
Mid: 0+246.76  
L12

PC: 0+308.45  
PT: 0+308.45  
Mid: 0+308.45  
L13

PC: 0+358.15  
PT: 0+358.15  
Mid: 0+358.15  
L14

DESIGN SPEED = 50 km/h

STA 0+000.00

BP: 0+000.00

0+020

0+040

0+060

0+080

0+100

0+120

0+140

0+160

0+180

0+200

0+220

0+240

0+260

0+280

0+300

0+320

0+340

0+360

0+380

0+400

0+420

0+440

0+460

0+480

0+500

0+520

0+540

0+560

0+580

0+600

0+620

0+640

0+660

0+680

0+700

0+720

0+740

0+760

0+780

0+800

0+820

0+840

0+860

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0+900

0+920

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0+000

1+020

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1+060

1+080

1+100

1+120

1+140

1+160

1+180

1+200

1+220

1+240

1+260

1+280

1+300

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1+380

1+400

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1+680

1+700

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1+740

1+760

1+780

1+800

1+820

1+840

1+860

1+880

1+900

1+920

1+940

1+960

1+980

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1+020

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1+080

1+100

1+120

1+140

1+160

1+180

1+200

1+220

1+240

1+260

1+280

1+300

1+320

1+340

1+360

1+380

1+400

1+420

1+440

1+460

1+480

1+500

1+520

1+540

1+560

1+580

1+600

1+620

1+640

1+660

1+680

1+700

1+720

1+740

1+760

1+780

1+800

1+820

1+840

1+860

1+880

1+900

1+920

1+940

1+960

1+980

1+000

1+020

1+040

1+060

1+080

1+100

1+120

1+140

1+160

1+180

1+200

1+220

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1+400

1+420

1+440

1+460

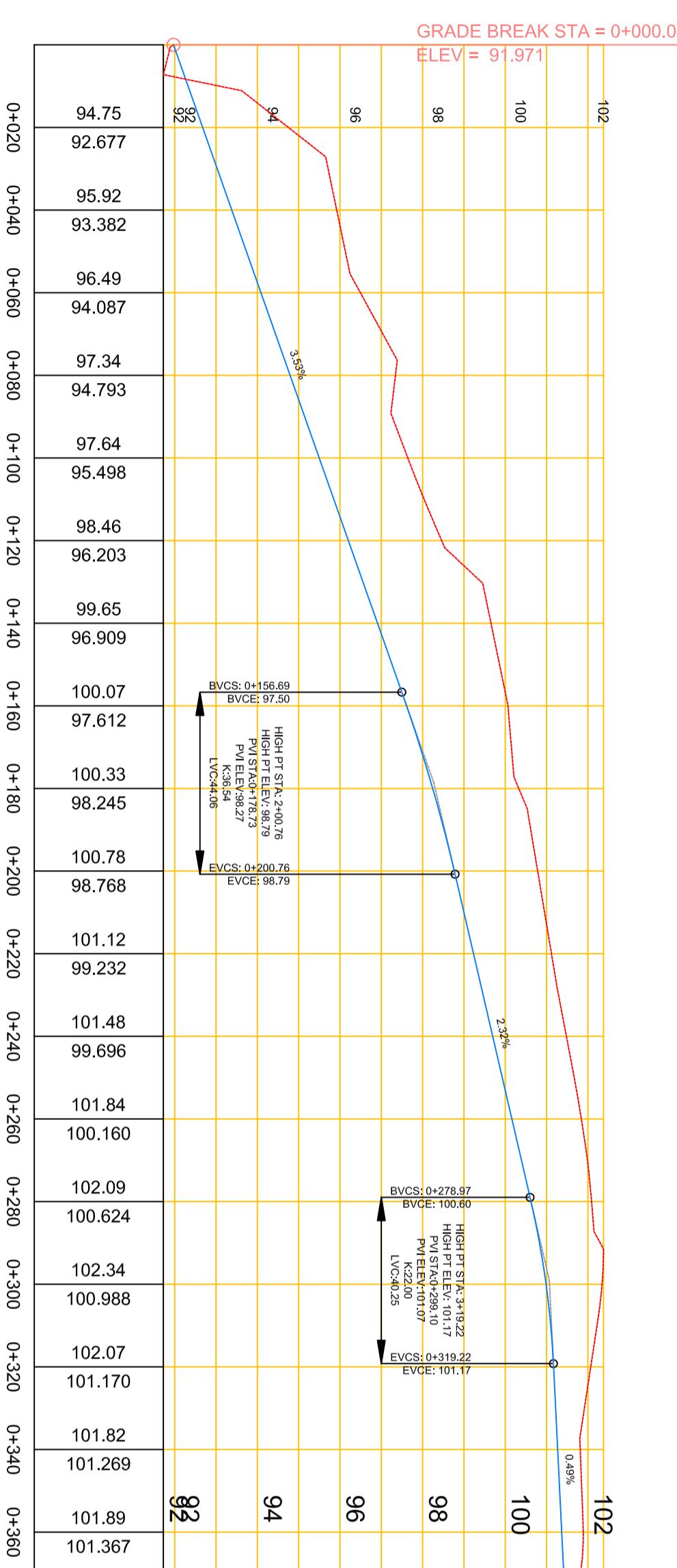
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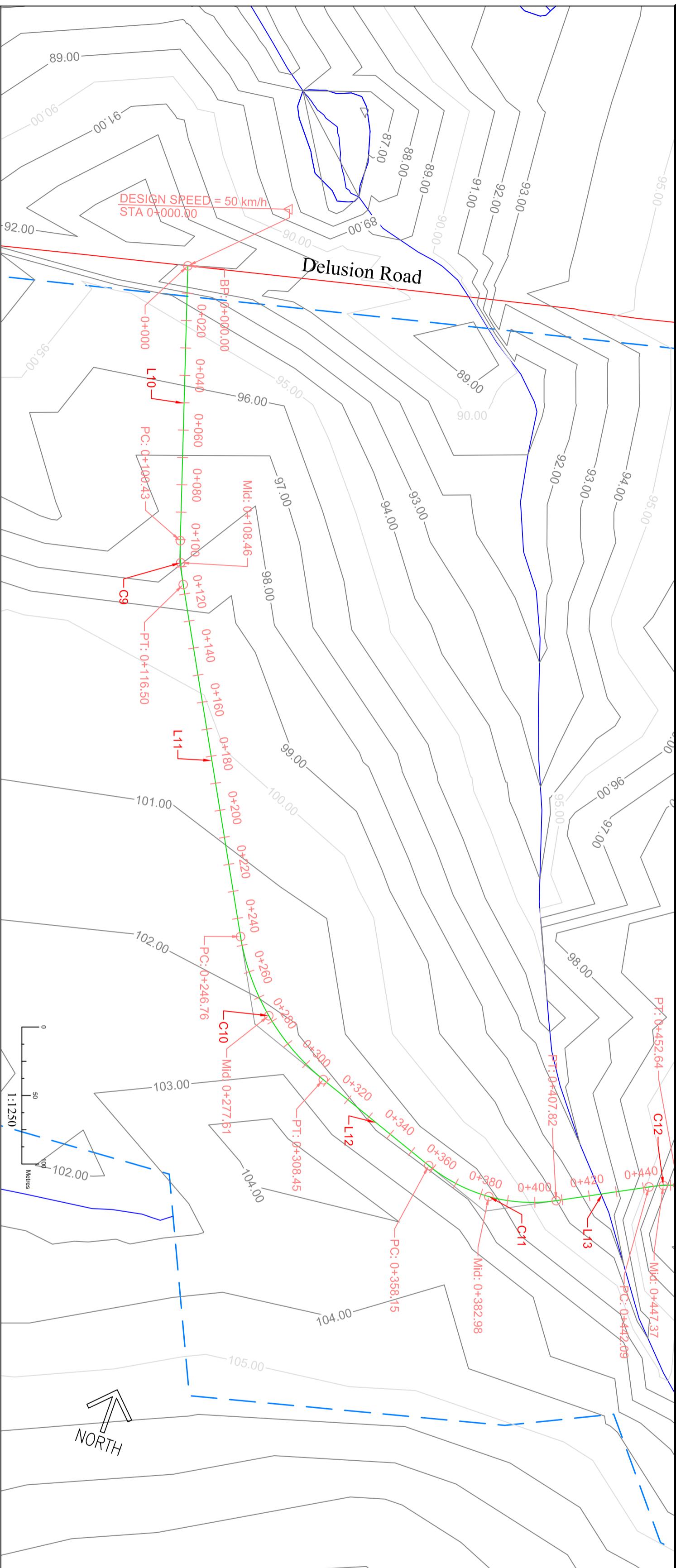
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1+540

1+560



### Delusion Crescent PROFILE



## Proposed Road Profile Delusion Park Annapolis County N.S.

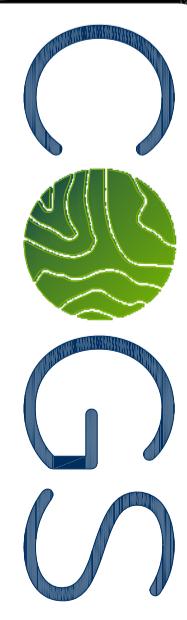
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Produced By: Katie Chute  
Date: January 14, 2016  
Updated : March 11, 2016

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Sheets: 1045000065100\_NAD83\_DXF and 1045000065100\_NAD83\_DXF.

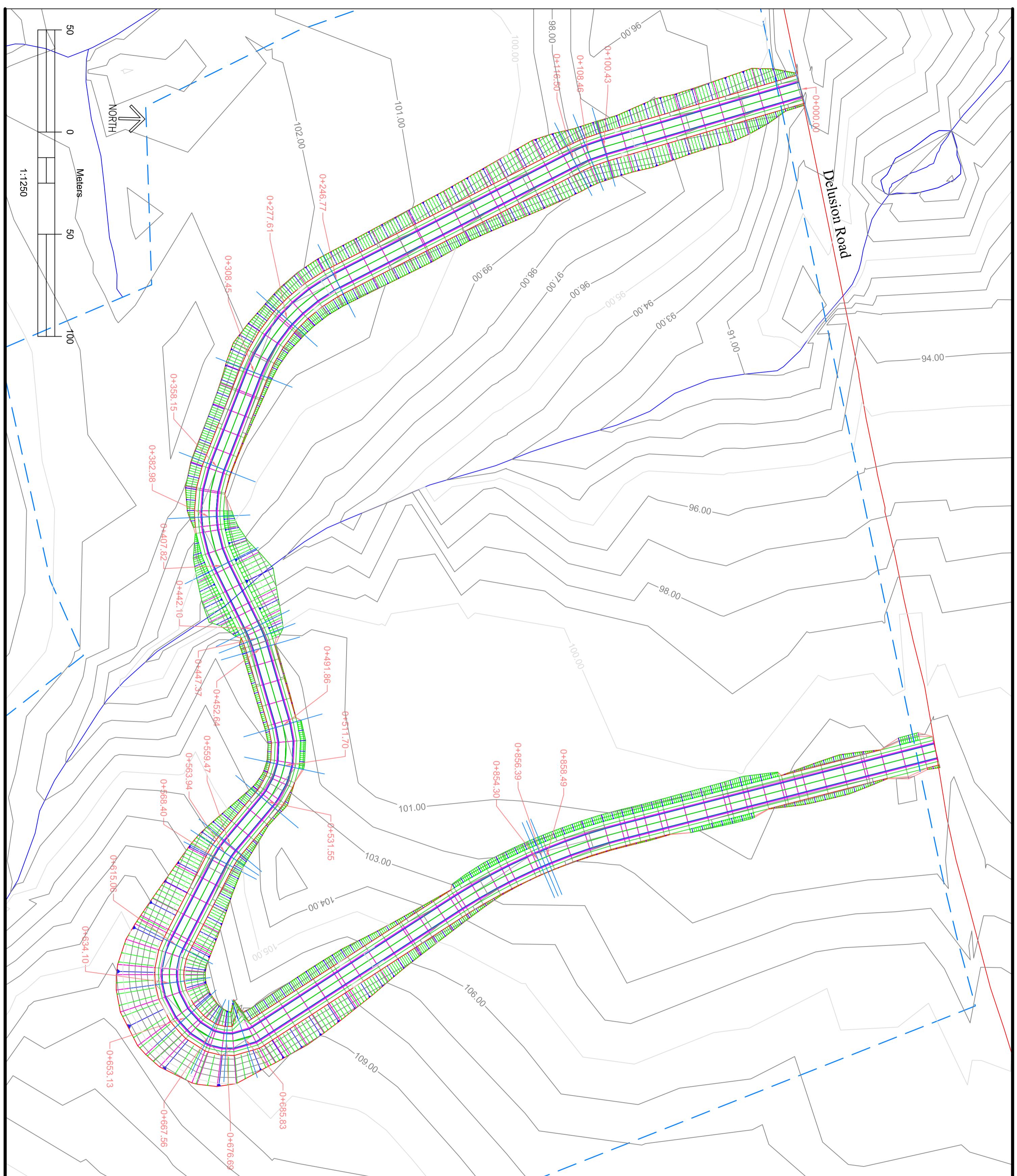
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nscs

Project	Sheet
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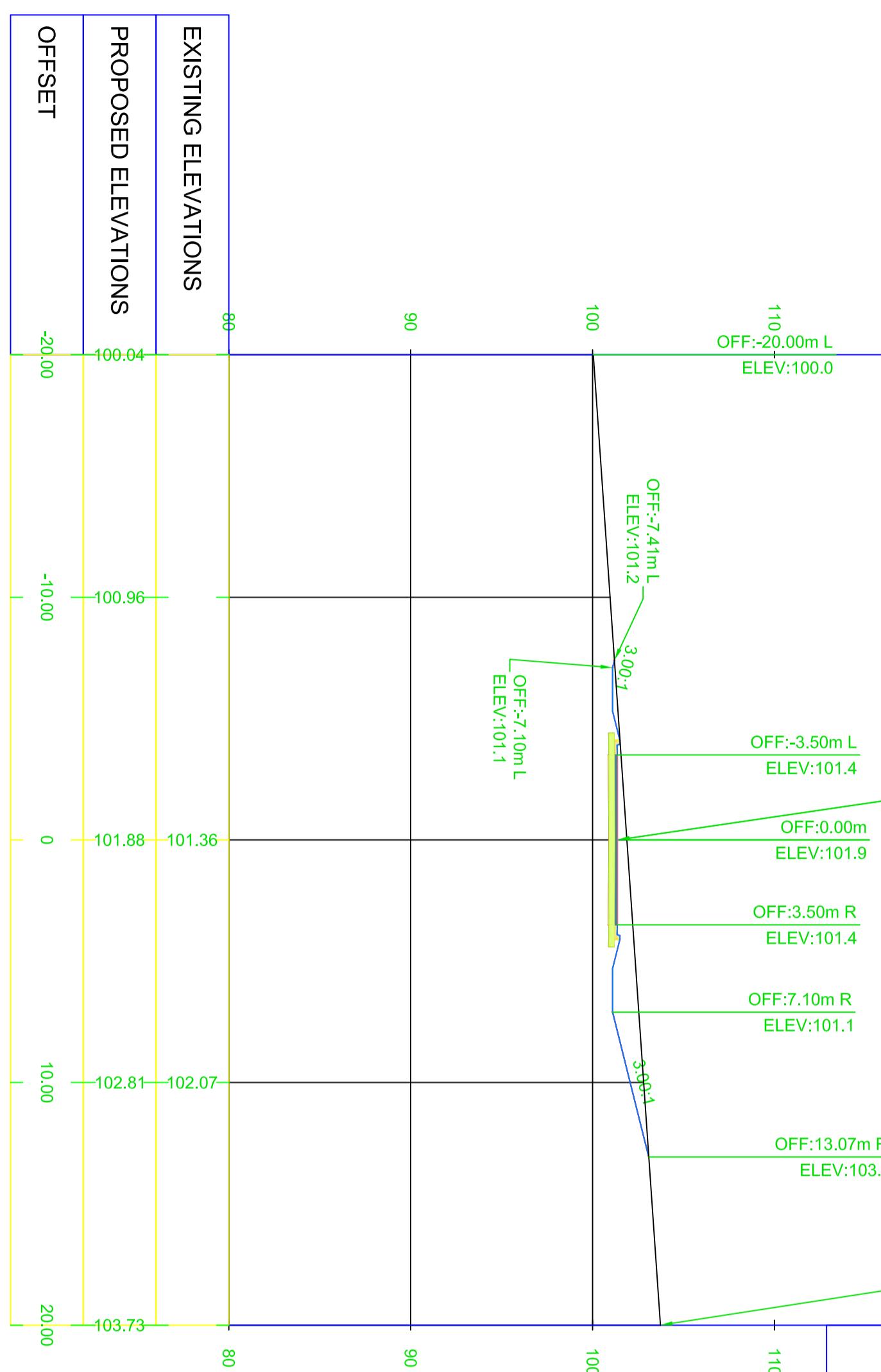


0+358.15

130  
120  
110  
100  
90  
80  
70  
60  
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-10  
-20  
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-50  
-60  
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-80  
-90  
-100  
-110  
-120  
-130

Material(s) at Station 0+358.15

Material Name	Area	Volume	Cumulative Volume
Pavement	0.17	8.70	62.68
Base	0.82	40.87	294.57
SubBase	2.60	129.22	931.32



**Proposed Road Section Views Delusion Park Annapolis County N.S.**

Surface: Delusion\_Crescent\_-\_(2)

Area 2D: 126142.588

Area 3D: 127367.207

Elevation Max: 111.822

Elevation Min: 91.713

Number of Points: 2464

Number of Triangles: 4801

Surface: EG

Area 2D: 45330219.258

Area 3D: 45783068.082

Elevation Max: 217.900

Elevation Min: 0.100

Number of Points: 20050

Number of Triangles: 39966

Volume Surface: Delusion\_Crescent

Volume

Volume Cut: 480448.088

Volume Fill: 203196.259

Volume Total: 155148.171

Compare Surface: Delusion\_Crescent\_- (2)

Base Surface: EG

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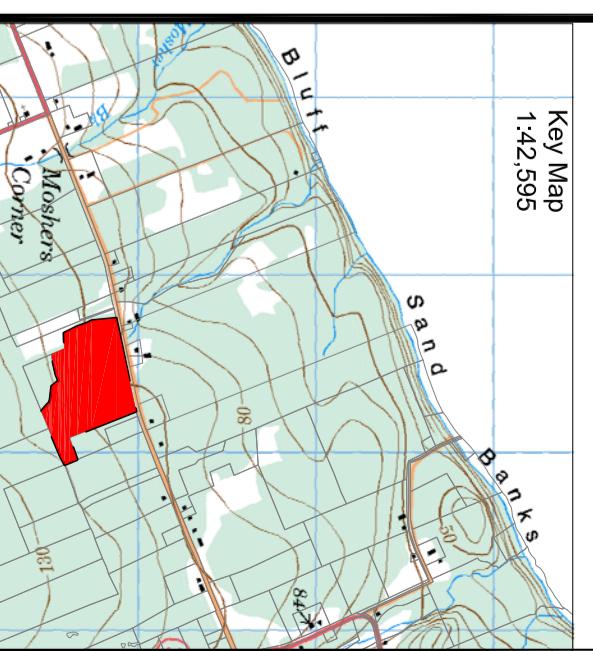
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\* "NOTE: The only boundaries shown on this plan which have been surveyed are the boundaries of Lot 97-1. The common boundary between the existing areas of land identified by and, which is shown by a heavy broken line, is hereby certified as having been the common boundary. The remaining boundaries of resulting Lot shown on this plan are a graphic representation only and do not represent the accurate shape or position of the lot boundaries which are subject to a field survey."



**Preliminary Plan of  
Proposed Subdivision  
of Lot 97-1  
Moshers Corner  
Annapolis County N.S.**

Key Map  
1:42,595

General Notes



Project	DELUSION_PARK
Date	05-02-2016
Sheet	2016-4a
Scale	1:2000

**Line Curve and Parcel Area Tables**  
**Lot 97-1**  
**Moshers Corner**  
**Annapolis County N.S.**

Parcel Line and Curve Table			
Line #/Curve #	Length	Bearing/Delta	Radius
C113	16.50	94.52	10.00
L158	29.90	N16° 21' 08.19"W	
C114	14.17	10.83	75.00
C124	22.85	17.46	75.00
C131	12.31	10.10	69.83
C146	20.95	23.80	50.44
L192	27.93	N50° 00' 18.90"W	
L193	46.66	N82° 39' 38.55"W	
L194	14.43	S47° 32' 50.54"W	
C147	4.22	80.44	3.01
C154	7.12	17.73	23.01
C155	15.26	87.41	10.00
L207	20.24	N27° 10' 48.45"W	
L234	39.22	S73° 45' 48.75"W	
C164	6.72	12.66	30.44
C112	14.92	85.47	10.00
L157	20.77	S16° 21' 06.19"E	
C115	17.95	10.83	95.00
C125	32.80	19.78	95.00
L168	9.72	S68° 45' 42.54"E	
C126	56.88	46.67	69.83
L175	16.95	N63° 39' 49.93"E	
L176	17.32	N63° 39' 49.93"E	
C145	29.87	56.23	30.44
C148	12.55	31.24	23.01
C149	13.71	19.04	41.26
C150	4.74	5.39	50.44
L195	14.43	N47° 32' 50.54"E	
C153	0.97	18.48	3.01
C156	16.16	92.59	10.00
L206	29.65	S27° 10' 48.45"E	
L213	32.17	S27° 10' 48.45"E	
L221	27.93	S50° 00' 18.90"E	
C160	36.54	50.75	41.26
L235	39.22	N73° 45' 48.75"E	
L237	39.98	S68° 45' 42.54"E	
C116	8.74	50.05	10.00
L160	21.88	S51° 46' 21.96"E	
C123	1.45	8.32	10.00
L185	10.94	S51° 35' 45.51"E	

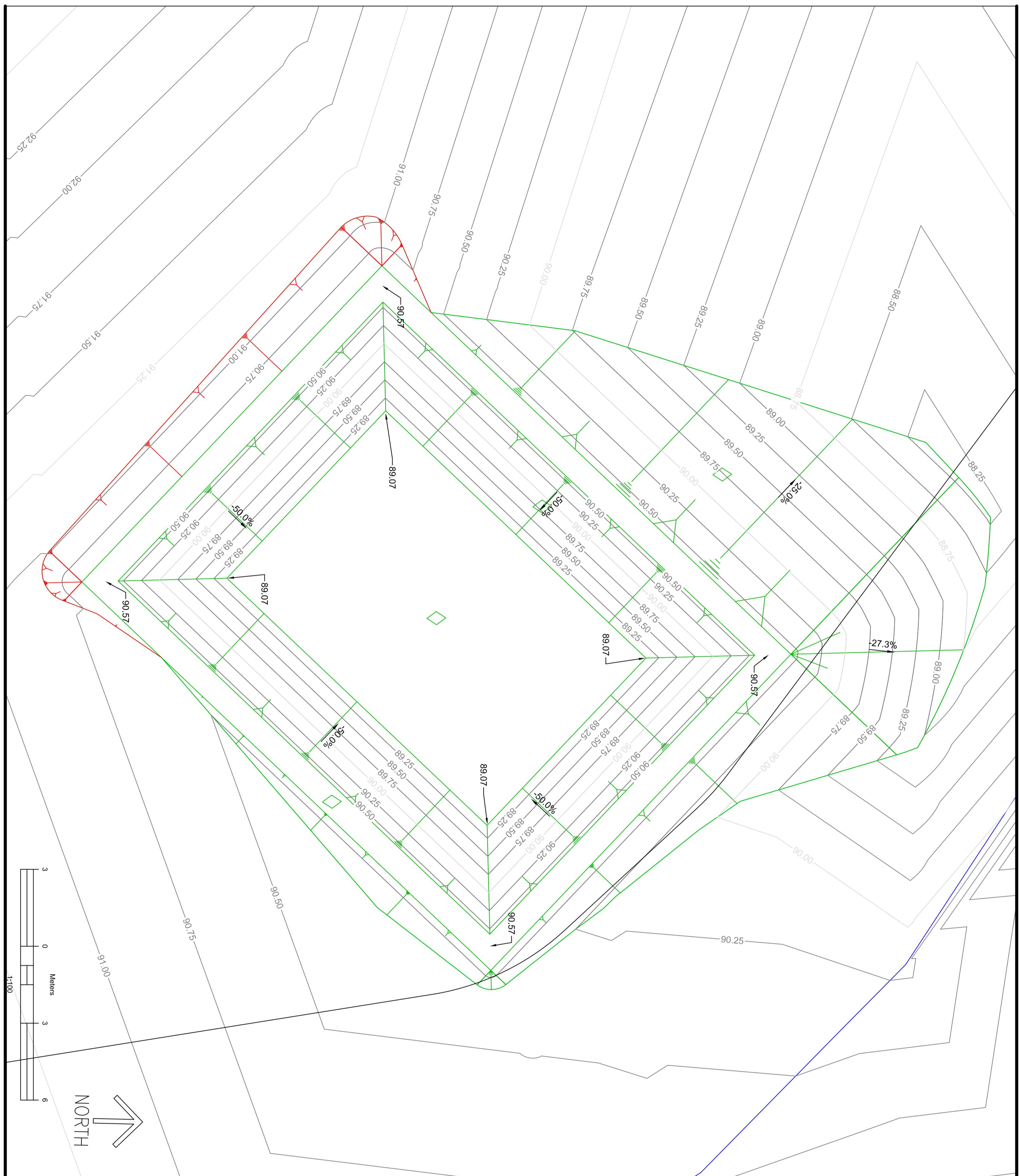
Parcel Line and Curve Table			
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C127	19.48	111.60	10.00
C130	2.32	13.29	10.00
L172	30.50	S36° 00' 39.50"E	
L222	6.99	S41° 11' 09.33"E	
L225	24.90	S7° 34' 19.08"E	
C161	3.23	18.49	10.00
L227	10.19	S26° 03' 28.88"E	
C163	0.87	4.98	10.00
L231	38.90	S26° 03' 28.88"E	
L233	41.27	S17° 44' 16.31"E	
C117	20.83	119.36	10.00
C120	5.87	33.61	10.00
L162	9.77	N41° 11' 09.33"W	
C121	3.23	18.49	10.00
L163	30.14	N7° 34' 19.08"W	
C122	1.45	8.32	10.00
L167	21.65	N17° 44' 16.31"W	
C128	14.02	80.32	10.00
C129	2.32	13.29	10.00
L169	35.86	N36° 00' 39.50"W	
L170	5.33	N22° 42' 59.98"W	
C129	2.32	13.29	10.00
L173	0.00	N36° 00' 39.52"W	
C162	0.87	4.98	10.00
L174	7.00	N36° 00' 39.52"W	
C130	2.32	13.29	10.00
L238	46.11	N22° 42' 59.98"W	
C134	13.86	79.42	10.00
C135	1.40	8.03	10.00
C139	2.23	12.80	10.00
C140	0.64	3.67	10.00
C141	27.32	156.55	10.00
L219	30.79	S36° 00' 39.50"E	
L217	47.18	S56° 50' 55.87"E	
L218	33.95	S44° 02' 42.57"E	
L219	30.79	S36° 00' 39.50"E	
L217	30.30	S44° 02' 42.57"E	
C137	18.68	107.03	10.00
C138	2.23	12.80	10.00
C142	1.84	10.54	10.00
C143	1.34	7.69	10.00
L184	16.05	S59° 16' 51.94"E	
L185	10.94	S51° 35' 45.51"E	

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 Date: February 2nd, 2016  
 Updated: March 17th, 2016

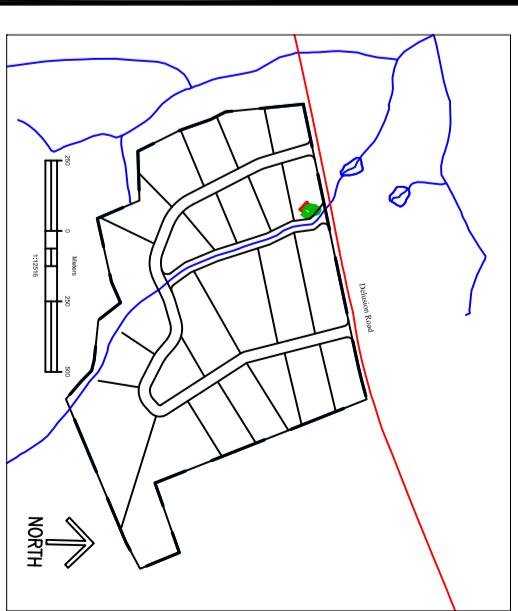


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Sheet	

Date	05-02-2016
Scale	2016-4b

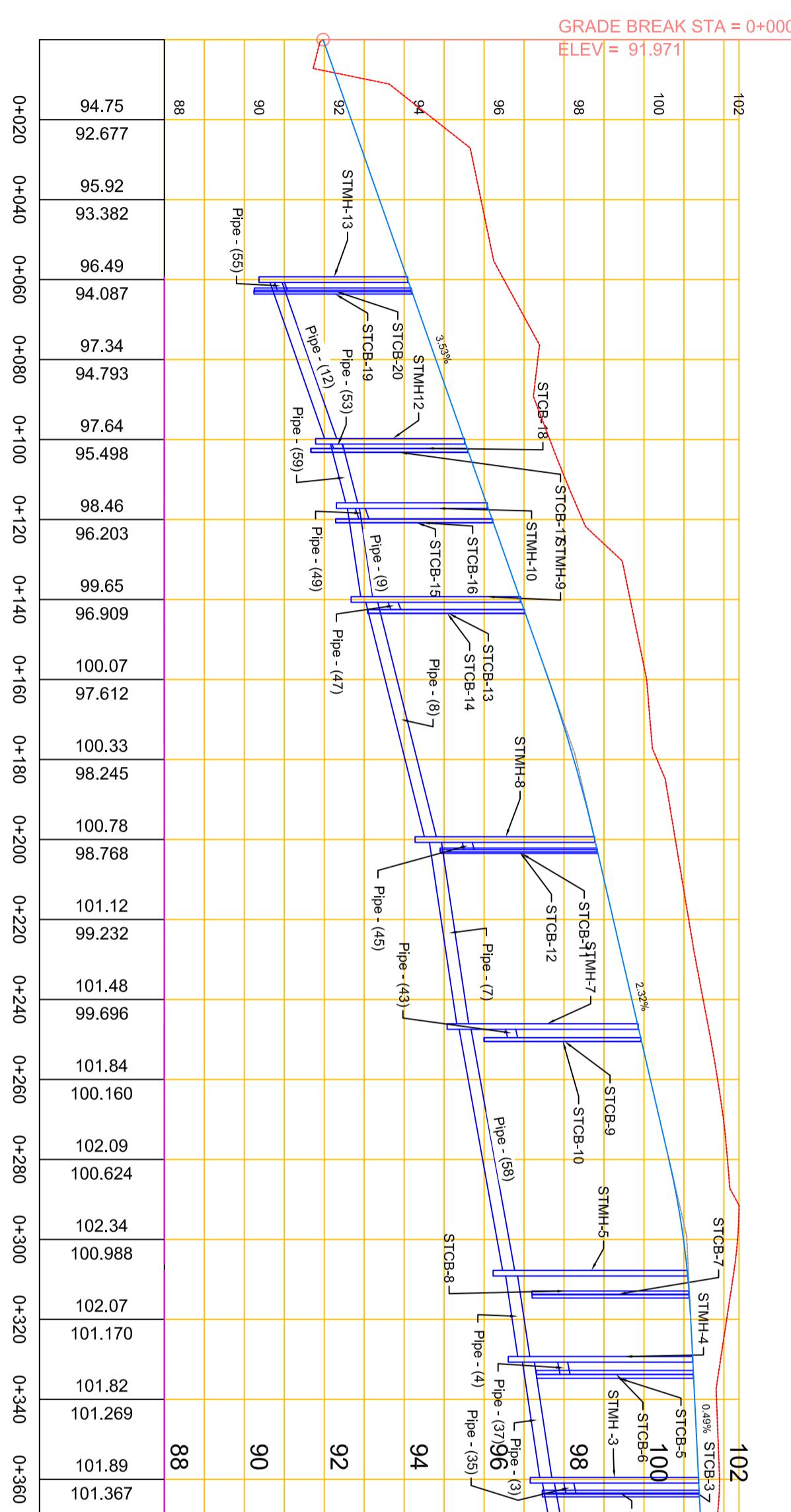


Volume Cut: 188.85 Cubic Metres  
Volume Fill: 188.93 Cubic Metres  
Volume Total: 188.93 Cubic Metres  
Compare Surface Grading for Rain Garden  
Base Surface: RG  
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Requirements of the Geographic Sciences  
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Produced By: Katie Chute  
Date: February 19, 2016  
Updated: March 17, 2016  
Base Source: Nova Scotia Topographic Database (NSTDB)  
1:10,000 Enhanced Topographic Database, From the Nova  
Scotia Geomatics Centre (NSGC), Service Nova Scotia and  
Municipal Relations, 160 Willow Street, Amherst, NS.  
Source Map Sheets: 104500065000, 104500065100



**Plan of Proposed  
Rain Garden  
Grading  
Delusion Park  
Annapolis  
County N.S.**

General Notes



## Delusion Crescent PROFILE

Horizontal Scale 1:1250  
Vertical Scale 1:125  
Vertical Exaggeration 10x



Produced By: Katie Clutter  
Date: February 26, 2016

Community and Environmental Planning  
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	Pipes
	Catch Basin
	Manhole Structures

# Proposed Pipe Network

# Profile Delusion Park Annapolis County N.S.



Centre of Geographic Sciences

Date	02-03-2016
Scalle	
	2016-6a

STORM PHASE 1		
STRUCTURE NAME:	DETAILS:	PIPES IN:
		PIPES OUT
STCB-1	??2 mm RIM = 101.64 SUMP = 97.82 INV/OUT = 98.317	Pipe - (60), 250 mm REINFORCED CONCRETE INV/OUT = 98.32
STCB-2	??2 mm RIM = 101.64 SUMP = 97.81 INV/OUT = 98.314	Pipe - (30), 250 mm REINFORCED CONCRETE INV/OUT = 98.31
STMH-1	1200 mm RIM = 101.63 SUMP = 98.10 INV/IN = 98.254 INV/IN = 98.250 INV/OUT = 98.255	Pipe - (30), 250 mm REINFORCED CONCRETE INV/IN = 98.25 Pipe - (60), 250 mm REINFORCED CONCRETE INV/IN = 98.25
STCB-3	??2 mm RIM = 101.38 SUMP = 97.56 INV/OUT = 98.058	Pipe - (35), 250 mm REINFORCED CONCRETE INV/OUT = 98.06
STCB-4	??2 mm RIM = 101.38 SUMP = 97.55 INV/OUT = 98.054	Pipe - (61), 250 mm REINFORCED CONCRETE INV/OUT = 98.05
STMH-3	1200 mm RIM = 101.37 SUMP = 97.25 INV/IN = 97.447 INV/IN = 97.979 INV/IN = 97.985 INV/OUT = 97.403	Pipe - (57), 300 mm REINFORCED CONCRETE INV/OUT = 98.26 Pipe - (30), 300 mm REINFORCED CONCRETE INV/OUT = 98.26
STCB-5	??2 mm RIM = 101.24 SUMP = 97.41 INV/OUT = 97.911	Pipe - (37), 250 mm REINFORCED CONCRETE INV/OUT = 97.91
STCB-6	??2 mm RIM = 101.23 SUMP = 97.41 INV/OUT = 97.907	Pipe - (62), 250 mm REINFORCED CONCRETE INV/OUT = 97.91
STMH-4	1200 mm RIM = 101.22 SUMP = 96.70 INV/IN = 96.949 INV/IN = 97.827 INV/IN = 97.832 INV/OUT = 96.853	Pipe - (3), 300 mm REINFORCED CONCRETE INV/IN = 97.45 Pipe - (35), 250 mm REINFORCED CONCRETE INV/IN = 97.98 Pipe - (61), 250 mm REINFORCED CONCRETE INV/IN = 97.99
STCB-7	??2 mm RIM = 101.13 SUMP = 97.30 INV/OUT = 97.802	Pipe - (4), 300 mm REINFORCED CONCRETE INV/OUT = 96.85
STCB-8	??2 mm RIM = 101.12 SUMP = 97.30 INV/OUT = 97.795	Pipe - (70), 250 mm REINFORCED CONCRETE INV/OUT = 97.80
STMH-5	1200 mm RIM = 101.09 SUMP = 96.33 INV/IN = 96.528 INV/IN = 96.476 INV/IN = 97.703 INV/IN = 97.699	Pipe - (4), 300 mm REINFORCED CONCRETE INV/IN = 96.53 Pipe - (37), 250 mm REINFORCED CONCRETE INV/IN = 97.70 Pipe - (62), 250 mm REINFORCED CONCRETE INV/IN = 97.70
STCB-9	??2 mm RIM = 99.93 SUMP = 96.10 INV/OUT = 96.600	Pipe - (64), 250 mm REINFORCED CONCRETE INV/OUT = 96.60
STCB-10	??2 mm RIM = 99.92 SUMP = 96.10 INV/OUT = 96.599	Pipe - (43), 250 mm REINFORCED CONCRETE INV/OUT = 96.60
STMH-7	1200 mm RIM = 99.85 SUMP = 95.17 INV/IN = 96.525 INV/IN = 96.526 INV/OUT = 95.325	Pipe - (43), 250 mm REINFORCED CONCRETE INV/IN = 96.52 Pipe - (64), 250 mm REINFORCED CONCRETE INV/IN = 96.53
STCB-11	??2 mm RIM = 98.83 SUMP = 95.01 INV/OUT = 95.509	Pipe - (58), 300 mm REINFORCED CONCRETE INV/OUT = 95.36 Pipe - (7), 300 mm REINFORCED CONCRETE INV/OUT = 95.32
STCB-12	??2 mm RIM = 98.82 SUMP = 95.00 INV/OUT = 95.500	Pipe - (45), 250 mm REINFORCED CONCRETE INV/OUT = 95.51
STMH-8	1200 mm RIM = 98.77 SUMP = 94.37 INV/IN = 94.623 INV/IN = 95.438 INV/IN = 95.432 INV/OUT = 94.523	Pipe - (7), 300 mm REINFORCED CONCRETE INV/IN = 94.62 Pipe - (45), 250 mm REINFORCED CONCRETE INV/IN = 95.44 Pipe - (65), 250 mm REINFORCED CONCRETE INV/IN = 95.43

STORM PHASE 1		
STRUCTURE NAME:	DETAILS:	PIPES IN:
		PIPES OUT
STCB-13	??2 mm RIM = 97.01 SUMP = 93.19 INV/OUT = 93.687	Pipe - (47), 250 mm REINFORCED CONCRETE INV/OUT = 93.69
STCB-14	??2 mm RIM = 97.01 SUMP = 93.19 INV/OUT = 93.686	Pipe - (66), 250 mm REINFORCED CONCRETE INV/OUT = 93.69
STMH-9	1200 mm RIM = 96.91 SUMP = 92.77 INV/IN = 93.022 INV/IN = 93.367 INV/IN = 93.570 INV/OUT = 92.922	Pipe - (8), 300 mm REINFORCED CONCRETE INV/IN = 93.02 Pipe - (47), 250 mm REINFORCED CONCRETE INV/IN = 93.57 Pipe - (66), 250 mm REINFORCED CONCRETE INV/IN = 93.57
STCB-15	??2 mm RIM = 96.21 SUMP = 92.39 INV/OUT = 92.886	Pipe - (67), 250 mm REINFORCED CONCRETE INV/OUT = 92.89
STCB-16	??2 mm RIM = 96.21 SUMP = 92.38 INV/OUT = 92.884	Pipe - (49), 250 mm REINFORCED CONCRETE INV/OUT = 92.88
STMH-10	1200 mm RIM = 96.08 SUMP = 92.40 INV/IN = 92.354 INV/IN = 92.750 INV/IN = 92.754	Pipe - (9), 300 mm REINFORCED CONCRETE INV/IN = 92.57 Pipe - (59), 300 mm REINFORCED CONCRETE INV/IN = 92.55 Pipe - (49), 250 mm REINFORCED CONCRETE INV/IN = 92.75 Pipe - (67), 250 mm REINFORCED CONCRETE INV/IN = 92.75
STCB-17	??2 mm RIM = 95.59 SUMP = 91.77 INV/OUT = 92.267	Pipe - (68), 250 mm REINFORCED CONCRETE INV/OUT = 92.27
STCB-18	??2 mm RIM = 95.59 SUMP = 91.76 INV/OUT = 92.264	Pipe - (53), 250 mm REINFORCED CONCRETE INV/OUT = 92.26
STMH12	1200 mm RIM = 95.51 SUMP = 91.88 INV/IN = 92.156 INV/IN = 92.160 INV/OUT = 92.138	Pipe - (53), 250 mm REINFORCED CONCRETE INV/IN = 92.16 Pipe - (68), 250 mm REINFORCED CONCRETE INV/IN = 92.16 Pipe - (12), 300 mm REINFORCED CONCRETE INV/OUT = 92.03
STCB-19	??2 mm RIM = 94.19 SUMP = 90.34 INV/OUT = 90.841	Pipe - (63), 250 mm REINFORCED CONCRETE INV/OUT = 92.26
STCB-20	??2 mm RIM = 94.18 SUMP = 90.35 INV/OUT = 90.851	Pipe - (55), 250 mm REINFORCED CONCRETE INV/OUT = 90.84
STMH-13	1200 mm RIM = 94.09 SUMP = 90.47 INV/IN = 90.618 INV/IN = 90.732 INV/IN = 90.740	Pipe - (69), 250 mm REINFORCED CONCRETE INV/OUT = 90.85

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Base data obtained from Service Nova Scotia & Municipal Data Locator Sheets: 10450006500\_NAD83\_DFX and 10450006510\_NAD83\_DFX.

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## Proposed Pipe Network Tables For Delusion Park Annapolis CountyN.S.



**nscc**

General Notes

Project	DELUSION_PARK
Date	02-03-2016
Scale	2016-6b
Project	DELUSION_PARK
Date	02-03-2016
Scale	N/A

