# 6<sup>th</sup> Line Municipal Class Environmental Assessment

County Road 27 to St John's Road *Town of Innisfil, ON* 

September 6, 2016

## APPENDIX O: HIGH LEVEL COST ESTIMATES

### **HDR Computation**

Project 6th LINE EA, CR27 TO ST JOHNS ROAD Subject CLASS EA, OPINION OF PROBABLE COST Task TOTAL ALL SEGMENTS

County Road 27 To: From:

St. Johns Road

Computed	MMD	
Checked	CCH	
Sheet	1	

HDR Job No. 241932/241951

Date 8/29/2016 Date 8/29/2016 6 of

Sections	Estimated Cost
County Road 27 - 5th Sideroad	\$11,360,000
5th Sideroad - 10th Sideroad	\$11,310,000
10th Sideroad - Yonge Street	\$10,540,000
Yonge St 20th Sideroad	\$12,160,000
20th Sideroad - St. Johns Road	\$21,730,000
Project Total =	\$67,100,000

Note:

Sections are calculated from HOT of Instesecting roadway to HOT of second intersecting roadway. See quantity takeoff tab for section stationing

HDR Job No. 241932/241951

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 HDR Computation

 Project 6th LINE EA, CR27 TO ST JOHNS ROAD

 Subject
 CLASS EA, OPINION OF PROBABLE COS

 Task
 6th LINE - ULTIMATE

 From:
 County Road 27

Computed MMD Checked CCH Sheet 2 To: 5th Sideroad

Date 8/29/2016 Date 8/29/2016 of 6

Road Work Example a constraint of the second	dro Pole Relocation ater Main Relocation as Main Relocation orderground Bell relocation initary relocation portingency (20%) ccavation/Earthworks stall storm sewer anular 'A' anular 'B' sphalt Base (HL-8) sphalt Top (HL-3) stall curb and gutter stall curb and gutter stall curb and gutter stall subdrains stall MUP/ sidewalk stall subdrains stall atch basin stall annhole I-Grit Separator III Depth Asphalt removal stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal stall extruder Terminal stall Stall Extruder Terminal stall Stall Separator ontingency (20%)	Sub Total Sub Total	\$1,610,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Road Work Example of the second secon	as Main Relocation derground Bell relocation unitary relocation opers relocation cavation/Earthworks stall storm sewer anular 'A' anular 'A' anular 'B' sphalt Base (HL-8) phalt Base (HL-8) phalt Base (HL-3) stall curb and gutter stall curb and gutter stall Curb remedian stall Subdrains stall Curb Asphalt removal stall Base (HL-8) II Depth Asphalt removal stall Guiderail stall Guiderail stall Extruder Terminal etaining Wall rmanent Pavement Marking de Road Reconstruction bontingency (20%) me side ssume 50m spacing) pontingency (20 %)	Sub Total	\$ \$610,00 \$ \$ \$444,00 \$2,664,00 \$ \$ \$ \$1,724,46 \$366,80 \$ \$ \$366,80 \$ \$ \$ \$ \$ \$426,75 \$366,80 \$ \$ \$ \$364,42 \$ \$ \$366,80 \$ \$ \$ \$311,41 \$ \$866,86 \$ \$ \$311,41 \$ \$311,41 \$ \$366,80 \$ \$ \$ \$31,72,40 \$ \$366,80 \$ \$ \$ \$366,80 \$ \$ \$ \$366,80 \$ \$ \$ \$366,80 \$ \$ \$366,80 \$ \$ \$ \$366,80 \$ \$ \$ \$ \$366,80 \$ \$ \$ \$ \$ \$ \$366,80 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Road Work Ex Ins Gr Gr As As Ins Ins Ins Ins Ins Ins Ins Ins Ins In	aderground Bell relocation nitary relocation opers relocation ontingency (20%) cavation/Earthworks stall storm sewer anular 'A' anular 'B' iphalt Base (HL-8) phalt Top (HL-3) stall curb and gutter stall concrete median stall MUP/ sidewalk stall curb and gutter stall concrete median stall MUP/ sidewalk stall curb and gutter stall concrete median stall MUP/ sidewalk stall curb and gutter stall subdrains stall curb aparator II Depth Asphalt removal stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal takining Wall ermanent Pavement Marking de Road Reconstruction ontingency (20%) me side ssume 50m spacing) ontingency (20 %)	Sub Total	\$610,00 \$ \$ \$444,00 \$2,664,00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Road Work Example Road Work Example Gr Gr Gr Gr Gr Gr Fullents Cr Streetlights Cr Cr Traffic Signals Pe Cr Culverts Re Pr Pr Pr Pr	anitary relocation opers relocation participation (20%) accavation/Earthworks stall storm sewer anular 'A' anular 'A' anular 'B' sphalt Base (HL-8) phalt Base (HL-8) phalt Top (HL-3) stall curb and gutter stall curb and gutter stall curb and gutter stall subdrains stall curb and gutter stall curb and gut	Sub Total	\$ \$444,00 \$2,664,00 \$623,06 \$ \$ \$7775,42 \$1,724,46 \$426,73 \$366,86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$64,42 \$ \$ \$ \$64,42 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Road Work Ex Gr Gr Gr Gr Gr Gr Gr Gr Gr Gr	ogers relocation ontingency (20%) cavation/Earthworks stall storm sewer anular 'A' anular 'B' sphalt Base (HL-8) sphalt Base (HL-8) sphalt Top (HL-3) stall curb and gutter stall subdrains stall catch basin stall catch basin stall curb appart removal stall Guiderail stall Guiderail stall Curder Terminal etaining Wall ermanent Pavement Marking de Road Reconstruction ontingency (20%) ermanent (intersection) ermonet (intersection)	Sub Total	\$444,00 \$2,664,00 \$623,00 \$3,775,42 \$1,724,46 \$366,80 \$366,80 \$3 \$426,72 \$366,80 \$3 \$426,72 \$366,80 \$3 \$239,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$310,00 \$32,00 \$372,00
Road Work Ex Ins Gr Gr Gr Gr Gr Gr Gr Gr Ins Ins Ins Ins Ins Ins Ins Ins Ins Ins	cavation/Earthworks stall storm sewer ranular 'A' anular 'A' sphalt Base (HL-8) sphalt Base (HL-8) sphalt Top (HL-3) stall curb and gutter stall concrete median stall Curb and gutter stall subdrains stall subdrains stall subdrains stall catch basin stall manhole I-Grit Separator III Depth Asphalt removal stall Guiderail stall Extruder Terminal etaining Wall ermanent Pavement Marking de Road Reconstruction bontingency (20%)	Sub Total	\$444,00 \$2,664,00 \$623,00 \$1,724,46 \$426,73 \$366,86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Road Work Example Road Work Example Gr Gr Gr Gr Gr Ins Ins Ins Ins Ins Ins Ins Ins Ins Ins	ccavation/Earthworks stall storm sewer anular 'A' anular 'B' sphalt Base (HL-8) sphalt Top (HL-3) stall curb and gutter stall curb and gutter stall curb and gutter stall subdrains stall MUP/ sidewalk stall subdrains stall catch basin stall catch	Sub Total	\$2,664,00 \$623,00 \$ \$775,42 \$1,724,46 \$426,73 \$366,86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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Graffic Signals Pe Culverts Re Culverts Re Culverts Re Culverts Re Culverts Re Pr Culverts Re Culverts Re Culverts Re Culverts Re Pr Pr Pr Pr	anular 'B' sphalt Base (HL-8) sphalt Top (HL-3) sphalt Top (HL-3) stall curb and gutter stall concrete median stall MUP/ sidewalk stall subdrains stall autoh basin stall manhole I-Grit Separator III Depth Asphalt removal stall Guiderail stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal stall Guiderail stall Autor Terminal stall Separator Marking Wall prmanent Pavement Marking de Road Reconstruction ontingency (20%) me side ssume 50m spacing) ontingency (20 %) mmanent (intersection) mporary (intersection)	Sub Total	\$1,724,46 \$426,73 \$366,86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
As As Ins Ins Ins Oi Fu Ins Co Streetlights Co Streetlights Co Co Culverts Re Pe Si Co Co Co Co Co Co Co Co Co Co Co Co Co	phalt Base (HL-8) phalt Top (HL-3) stall curb and gutter stall curcrete median stall MUP/ sidewalk stall subdrains stall subdrains stall catch basin stall ca	Sub Total	\$426,73 \$366,86 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
As Ins Ins Ins Ins Ins Ins Ins In	phalt Top (HL-3) stall curb and gutter stall curb and gutter stall concrete median stall concrete median stall subdrains stall catch basin stall catch basin stall curb appart removal l-Grit Separator III Depth Asphalt removal stall Guiderail stall Curder Terminal etaining Wall ermanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %)	Sub Total	\$366,80 \$ \$ \$ \$64,42 \$ \$239,30 \$114,12 \$866,82 \$5,201,30 \$310,00 \$310,00 \$32,00 \$372,00 \$ \$
Ins Ins Ins Ins Ins Ins Ins Ins Ins Ins	stall curb and gutter stall concrete median stall MUP/ sidewalk stall subdrains stall catch basin stall catch basin stall catch basin lil Depth Asphalt removal stall Guiderail stall Extruder Terminal stall Extruder Terminal stalliger and the stall training Wall stall extruder Terminal stalliger (20%) net side ssume 50m spacing) ontingency (20%)	Sub Total	\$64,42 \$64,42 \$239,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$62,00 \$372,00 \$372,00
Ins Ins Ins Ins Ins Oi Fu Ins Pe Si Co Streetlights Or (a: Co Co Fraffic Signals Pe Co Co Culverts Re Pr Pr Pr Pr Pr Pr	stall MUP/ sidewalk stall subdrains stall catch basin stall catch basin stall catch basin stall catch basin stall catch basin stall catch catcher stall stall catcher terminal stall ca	Sub Total	\$64,42 \$ \$239,30 \$114,12 \$866,88 \$5,201,30 \$310,00 \$62,00 \$372,00 \$
Ins Ins Oi Fu Streetlights Or (a: Construction of the second Fraffic Signals Pe Construction of the second Construction of the second Construction of the second Construction of the second Present of the second of	stall subdrains stall catch basin stall manhole I-Grit Separator III Depth Asphalt removal stall Guiderail stall Catruder Terminal etaining Wall ermanent Pavement Marking de Road Reconstruction bontingency (20%) ne side ssume 50m spacing) bontingency (20 %) ermanent (intersection)	Sub Total	\$64,42 \$64,42 \$239,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$62,00 \$372,00 \$372,00
Ins Oi Ful Ins Ful Ins Ins Ful Ins Ins Ful Ins Ins Ins Ins Ins Ins Ins Ins	stall catch basin stall manhole I-Grit Separator III Depth Asphalt removal stall Guiderail stall Extruder Terminal staining Wall ermanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$64,42 \$239,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$372,00 \$372,00
Ins Oi Fu Ins Re Pe Si Co Streetlights Or (a: Co Fraffic Signals Pe Te Co Co Culverts Re Pr Pr Pr Pr	stall manhole I-Grit Separator III Depth Asphalt removal stall Guiderail stall Extruder Terminal stall Extruder Terminal remanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$64,42 \$64,42 \$229,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$62,00 \$372,00 \$372,00
Oi Fu Ins Ins Re Pe Si Co Streetlights Or (a: Co Co Fraffic Signals Te Co Co Culverts Re Pr Pr Pr Pr Pr Pr	I-Grit Separator III Depth Asphalt removal stall Guiderail stall Extruder Terminal bataining Wall ermanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection) emporary (intersection)	Sub Total	\$64,42 \$ \$239,30 \$114,12 \$866,82 \$5,201,30 \$310,00 \$62,00 \$372,00 \$
Fuint Institution Reference Si Streetlights Or (a: Contemport Culverts Reference Pr Pr Pr Pr Pr Pr	III Depth Asphalt removal stall Guiderail stall Extruder Terminal stall Extruder Terminal stall Extruder Terminal de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$64,42 \$ \$ \$239,33 \$114,18 \$866,88 \$5,201,30 \$310,00 \$310,00 \$322,00 \$372,00 \$
Ins Ins Re Pe Si Co Streetlights Or (a: Co Co Colverts Re Pr Pr Pr Pr Pr	stall Guiderail stall Extruder Terminal etaining Wall rmanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$239,3 \$114,18 \$866,84 \$5,201,30 \$310,00 \$62,00 \$372,00
Ins Re Pe Si Co Streetlights Or (a: Co Fraffic Signals Pe Te Co Culverts Re Pr Pr Pr Pr Pr	stall Extruder Terminal taining Wall ermanent Pavement Marking de Road Reconstruction pontingency (20%) he side ssume 50m spacing) pontingency (20 %) ermanent (intersection) emporary (intersection)	Sub Total	\$229,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$62,00 \$372,00 \$
Re Pe Si Co Streetlights Or (a: Co Co Fraffic Signals Pe Te Co Co Co Co Co Co Co Co Co Co Co Co Co	etaining Wall ermanent Pavement Marking de Road Reconstruction entingency (20%) he side assume 50m spacing) entingency (20 %) ermanent (intersection) emporary (intersection)	Sub Total	\$ \$239,30 \$114,11 \$866,84 \$5,201,30 \$310,00 \$32,00 \$372,00 \$ \$
Pe Si Co Streetlights Or (a: Co Co Fraffic Signals Pe Te Co Co Culverts Re Pr Pr Pr Pr Pr	ermanent Pavement Marking de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$239,30 \$114,18 \$866,88 \$5,201,30 \$310,00 \$310,00 \$62,00 \$372,00 \$
Sireetlights Or (a: Co Fraffic Signals Pe Te Co Colverts Re Pr Pr Pr Pr Pr Pr	de Road Reconstruction ontingency (20%) ne side ssume 50m spacing) ontingency (20 %) ermanent (intersection)	Sub Total	\$114,18 \$866,88 \$5,201,30 \$310,00 \$310,00 \$62,00 \$372,00 \$
Streetlights Or (a: Co Fraffic Signals Pe Te Co Culverts Re Pr Pr Pr Pr Pr	ne side ssume 50m spacing) pontingency (20 %) ermanent (intersection) emporary (intersection)		\$5,201,30 \$310,00 \$62,00 \$372,00 \$
(a: Co Fraffic Signals Pe Te Co Colverts Pr Pr Pr Pr Pr Pr	ssume 50m spacing) ontingency (20 %) ermanent (intersection) emporary (intersection)		\$310,00 \$62,00 \$372,00 \$
(a: Co Fraffic Signals Pe Te Co Colverts Pr Pr Pr Pr Pr Pr	ssume 50m spacing) ontingency (20 %) ermanent (intersection) emporary (intersection)	Sub Total	\$62,00 \$372,00 \$
Traffic Signals Pe Te Co Culverts Re Pr Pr Pr Pr Pr	ermanent (intersection)	Sub Total	\$372,00
Traffic Signals Pe Te Co Culverts Pr Pr Pr Pr Pr	ermanent (intersection)	Sub Total	\$372,00
Culverts Culverts Pr Pr Pr Pr	emporary (intersection)	Sub Total	:
Culverts Culverts Pr Pr Pr Pr	emporary (intersection)		s
Culverts Re Pr Pr Pr Pr Pr			
Culverts Re Pr Pr Pr Pr Pr			
Culverts Pr Pr Pr Pr Pr	siningency (20 %)		
Re Pr Pr Pr Pr Pr		<del>.</del>	
Re Pr Pr Pr Pr Pr		Sub Total	Ş
Pr Pr Pr Pr	emovals of existing		\$19,5
Pr Pr Pr Pr	oposed 400mm Culvert		\$21,00
Pr Pr Pr	oposed 500mm Culvert		\$7,68
Pr	oposed 600mm Culvert		\$22,08
	oposed 1100mm Culvert		\$5,22
Co	oposed 1800mm Culvert		\$20,00
	ontingency (20%)		\$19,09
		Sub Total	\$114,5
Bridges			
	idening of ex. structure w Structure		\$
140	Swolidelare		
Co	ontingency (30 %)		\$
		Sub Total	5
andscape			
La	ndscape % of road work cost)		\$140,00
			<b>*</b> **
Co	ontigency (20%)		\$28,00
		Sub Total	\$168,00
	affic Control		
	d Staging Plan 0% of construction cost)		\$710,00
Engineering De			
Co	esign and		

TOTAL \$11,360,000

Computed MMD Checked CCH Sheet 3

Date8/29/2016Date8/29/2016of6

 HDR Computation

 Project 6th LINE EA, CR27 TO ST JOHNS ROAD

 Subject CLASS EA, OPINION OF PROBABLE CO

 Task 6th LINE - ULTIMATE

 From:
 5th Sideroad

To: 10th Sideroad

Component/ Category	Item Description		Total
Utility Conflicts	Hydro Pole Relocation Water Main Relocation		\$1,610,000 \$1
	Gas Main Relocation		\$
	Underground Bell relocation		\$232,10
	Sanitary relocation Rogers relocation		\$( \$(
	Contingency (20%)		\$368,420
		Sub Total	\$2,210,520
Road Work	Excavation/Earthworks		\$956,45
	Install storm sewer Granular 'A'		\$ \$776,81
	Granular 'B'		\$1,735,50
	Asphalt Base (HL-8)		\$424,52
	Asphalt Top (HL-3) Install curb and gutter		\$366,80 \$
	Install concrete median		s S
	Install MUP/ sidewalk		\$
	Install subdrains		\$
	Install catch basin Install manhole		\$ \$
	Oil-Grit Separator		ş.
	Full Depth Asphalt removal		\$64,42
	Install Guiderail		\$
	Install Extruder Terminal Retaining Wall		\$
	Permanent Pavement Marking		\$239,30
	Side Road Reconstruction		\$122,85
	Contingency (20%)		\$937,33
		Sub Total	\$5,624,01
Streetlights	One side (assume 50m spacing)		\$310,00
	Contingency (20 %)		\$62,00
		Sub Total	\$372,00
Traffic Signals	Permanent (intersection)		\$
	Temporary (intersection)		\$
	Contingency (20 %)		\$
		Sub Total	\$
Culverts	Removals of existing		\$19,50
	Proposed 400mm Culvert		\$16,80
	Proposed 500mm Culvert		\$2,24
	Proposed 600mm Culvert Proposed 800mm Culvert		\$12,88 \$1,60
	Proposed 1600mm Culvert		\$24,70
	Contingency (20%)		\$15,54
		Sub Total	\$93,26
Bridges**			
	Widening of ex. structure New Structure		\$
	Contingency (30 %)		\$
		Sub Total	\$
Landscape	Landscape		\$150,00
	(3% of road work cost)		
	Contigency (20%)		\$30,00
		Sub Total	\$180,00
Traffic control	Traffic Control and Staging Plan	T	\$710,00
	(10% of construction cost)		
<b>-</b>			
Engineering	Design and Contract Administration (30% of construction cost)		\$2,120,00

TOTAL

\*\* Note any work required to Hwy 400 Bridge shall be costed in the Hwy 400 & 6th Line Interchange EA.

\$11,310,000

HDR Job No. 241932/241951

Computed MMD Checked CCH Sheet 4

\$10,540,000

TOTAL

Date 8/29/2016 Date 8/29/2016 of 6

 
 HDR Computation

 Project 6th LINE EA, CR27 TO ST JOHNS ROAD

 Subject CLASS EA, OPINION OF PROBABLE COS

 Task 6th LINE - ULTIMATE

 From:
 10th Sideroad
 To: Yonge Street

11			

Idsk

Component/ Category	Item Description		Total
	Hydro Pole Relocation Water Main Relocation		\$1,225,000 \$0
	Gas Main Relocation		\$0
	Underground Bell relocation Sanitary relocation		\$306,600 \$0
	Rogers relocation		\$0
1	Contingency (20%)		\$306,320
		Sub Total	\$1,837,920
	Excavation/Earthworks		\$698,117
	Install storm sewer Granular 'A'		\$0 \$782,373
	Granular 'B'		\$1,747,975
	Asphalt Base (HL-8)		\$436,182
	Asphalt Top (HL-3)		\$371,494
	Install curb and gutter		\$0 \$0
	Install concrete median Install MUP/ sidewalk		\$0
	Install subdrains		\$56,160
I	Install catch basin		\$0
	Install manhole		\$0
	Oil-Grit Separator Full Depth Asphalt removal		\$0 \$64,071
	Install Guiderail		\$04,071
	Install Extruder Terminal		\$0
	Retaining Wall		\$0
	Permanent Pavement Marking Side Road Reconstruction		\$237,978 \$138,751
(	Contingency (20%)		\$906,620
		Sub Total	\$5,439,721
U U	One side (assume 50m spacing)		\$310,000
	Contingency (20 %)		\$62,000
		Sub Total	\$372,000
affic Signals	Permanent (intersection)		\$0
	Temporary (intersection)		\$0
	Contingency (20 %)		\$0
		Sub Total	\$0
lverts	Pamouolo of ovicting		\$10.500
	Removals of existing Proposed 400mm Culvert		\$19,500 \$12,600
	Proposed 500mm Culvert		\$1,600
	Proposed 600mm Culvert		\$5,060
	Proposed 800mm Culvert Proposed 1200mm Culvert		\$8,400 \$18,375
	Contingency (20%)		\$13,107
		Sub Total	\$78,642
idges	Widening of ex. structure		\$0
I	New Structure		
(	Contingency (30 %)		\$0
		Sub Total	\$0
ndscape	Landscape		\$140,000
	(3% of road work cost)		,
1	Contigency (20%)		\$28,000
		Sub Total	\$168,000
i	Traffic Control and Staging Plan		\$660,000
	(10% of construction cost)		
	Design and Contract Administration (30% of construction cost)		\$1,980,000

HDR Computation Project 6th LINE EA, CR27 TO ST JOHNS ROAD Subject CLASS EA, OPINION OF PROBABLE CO Task 6th LINE - ULTIMATE From: Yonge Street T Description:

HDR Job No.	241932/241951

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Computed MMD Checked CCH Sheet 5

To: 20th Sideroad

8/29/2016 8/29/2016 6 Date Date of

From: Description:

Category	Item Description	ı	Total
Utility Conflicts	Hydro Pole Relocation		\$1,645,00
	Water Main Relocation		\$
	Gas Main Relocation		\$6,00
	Underground Bell relocation		\$305,20
	Sanitary relocation Rogers relocation		\$ \$4,00
	-		. ,
	Contingency (20%)	Sub Total	\$392,04
		Sub Totai	\$2,352,24
Road Work	Excavation/Earthworks Install storm sewer		\$854,12 \$
	Granular 'A'		ۍ \$787,09
	Granular 'B'		\$1,759,05
	Asphalt Base (HL-8)		\$439,80
	Asphalt Top (HL-3)		\$373,97
	Install curb and gutter		\$
	Install concrete median Install MUP/ sidewalk		\$
	Install subdrains		\$43,99
	Install catch basin		¢.0,03
	Install manhole		\$
	Oil-Grit Separator		\$
	Full Depth Asphalt removal		\$64,36
	Install Guiderail		9
	Install Extruder Terminal Retaining Wall		\$
	Permanent Pavement Markir	na	\$239,07
	Side Road Reconstruction	.9	\$171,99
	Contingency (20%)		\$946,69
		Sub Total	\$5,680,16
Streetlights	One side		\$310,00
	(assume 50m spacing)		
	Contingency (20 %)		\$62,00
		Sub Total	\$372,00
Traffic Signals	Permanent (intersection)		\$250,00
	Temporary (intersection)		\$100,00
	Contingency (20 %)		\$70,00
		Sub Total	\$420,00
Culverts			
	Removals of existing		\$36,00
	Proposed 400mm Culvert		\$25,20
	Proposed 500mm Culvert Proposed 600mm Culvert		\$12,00 \$20,24
	Contingency (20%)		\$18,68
		Sub Total	\$112,12
Bridges	Widening of ex. structure		9
Bridges	Widening of ex. structure New Structure		٩
Bridges	New Structure		
Bridges		Sub Total	٤
-	New Structure	Sub Total	٤
-	New Structure Contingency (30 %)	Sub Total	\$
Bridges Landscape	New Structure	Sub Total	\$
-	New Structure Contingency (30 %) Landscape	Sub Total	\$ \$ \$150,00
-	New Structure Contingency (30 %) Landscape (3% of road work cost)	Sub Total	\$ \$ \$150,00 \$30,00
-	New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%)		\$ \$ \$150,00 \$30,00
Landscape	New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control and Staging Plan		\$ \$ \$150,00 \$30,00 \$180,00 \$760,00
Landscape Traffic control	New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control and Staging Plan (10% of construction cost)		\$ \$ \$150,000 \$30,000 \$180,000
Landscape	New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control and Staging Plan		\$ \$ \$150,00 \$30,00 \$180,00

HDR Job No. 241932/241951

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 HDR Computation

 Project
 6th LINE EA, CR27 TO ST JOHNS ROA

 Subject
 CLASS EA, OPINION OF PROBABLE C

 Task
 6th LINE - ULTIMATE

 From:
 20th Sideroad

Computed MMD Checked CCH Sheet 6 To: St Johns Road

Date	8/29/2016
Date	8/29/2016
of	6
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Category	Item Descriptio	n	Total
Utility Conflicts	Hydro Pole Relocation		\$1,575,00
	Water Main Relocation		\$
	Gas Main Relocation		\$
	Underground Bell relocation	n	\$304,70
	Sanitary relocation		\$
	Rogers relocation		\$4,00
	Contingency (20%)		\$376,74
		Sub Total	\$2,260,44
Road Work	Excavation/Earthworks		\$353,51
	Install storm sewer		\$897,46
	Granular 'A'		\$663,76
	Granular 'B'		\$1,592,11
	Asphalt Base (HL-8)		\$816,95
	Asphalt Top (HL-3)		\$392,13
	Install curb and gutter Install concrete median		\$306,25 \$54,97
	Install MUP/ sidewalk		\$653,94
	Install subdrains		\$159,25
	Install catch basin		\$244,00
	Install manhole		\$255,00
	Oil-Grit Separator		\$225.00
	Full Depth Asphalt removal		\$64,00
	Install Guiderail		\$69,82
	Removal of Existing Guide	rail	\$3,49
	Install Extruder Terminal		\$12,00
	Retaining Wall		\$92,00
	Permanent Pavement Mark	king	\$239,72
	Side Road Reconstruction		\$280,39
	Contingency (20%)		\$1,475,15
		Sub Total	\$8,850,94
Streetlights	Both sides		\$610,00
	(assume 50m spacing)		
	Contingency (20 %)		\$122,00
		Sub Total	\$732,00
Traffic Signals	Permanent (intersection)		\$750,00
	Temporary (intersection)		\$300,00
	Contingency (20 %)		\$210,00
	g, ( , c)	Sub Total	\$1,260,00
		Sub Total	\$1,200,00
Culverts	Removals of existing		\$42,00
	Proposed 400mm Culvert		\$12,60
	Proposed 500mm Culvert		\$3,20
	Proposed 650mm Culvert		\$8,74
	Proposed 800mm Culvert		\$1,82
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	Contingency (20%)		\$13,67
	Contingency (20%)	Sub Total	
Bridges		Sub Total	\$82,04
Bridges	Widening of ex. structure	Sub Total	\$82,04
Bridges		Sub Total	\$82,04
Bridges	Widening of ex. structure New Structure	Sub Total	\$82,04 \$ \$2,898,00
Bridges	Widening of ex. structure	Sub Total	\$82,04 \$ \$2,898,00
Bridges	Widening of ex. structure New Structure	Sub Total	\$82,04 \$ \$2,898,00 \$869,40
-	Widening of ex. structure New Structure		\$82,04 \$ \$2,898,00 \$869,40
-	Widening of ex. structure New Structure Contingency (30 %)		\$13,67 \$82,04 \$ \$2,898,00 \$869,40 \$3,767,40
-	Widening of ex. structure New Structure		\$82,04 \$ \$2,898,00 \$869,40
-	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost)		\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00
-	Widening of ex. structure New Structure Contingency (30 %) Landscape	Sub Total	\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00
-	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost)		\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00
Bridges Landscape Traffic control	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control	Sub Total	\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00 \$276,00
Landscape	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%)	Sub Total	\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00
Landscape Traffic control	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control and Staging Plan (10% of construction cost)	Sub Total	\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00 \$276,00
Landscape	Widening of ex. structure New Structure Contingency (30 %) Landscape (3% of road work cost) Contigency (20%) Traffic Control and Staging Plan	Sub Total	\$82,04 \$ \$2,898,00 \$869,40 \$3,767,40 \$230,00 \$46,00 \$276,00