QUANTITY SHEETS

CONTRACT NO. 2019-3006

BOOK 1 OF 1

Ministry Of Transportation

Ontario

INDEX

W.P. No. 3056-10-00

Contract No. 2019-3006

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Sheet No.	Description

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 1

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Grubbing*		*Grubbing (each)*										References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY (TOWNSHIP OF NORTH CAYUGA)													
HIGHWAY 3													
26+802; 12.9 Lt			1										
26+807; 12.8 Lt			1										
26+835; 13.1 Lt			1										
26+896; 13.2 Lt			1										
26+959; 15.6 Rt			1										
27+027; 13.9 Rt			1										
27+029 - 27+117; 18.1 Lt	375												
27+038; 14.3 Rt			1										
27+151; 13.9 Lt			1										
27+162; 13.3 Rt			1										
27+174; 13.9 Lt			1										
27+191; 13.0 Lt			1										
27+191; 9.4 Rt			1										
27+196; 13.2 Lt			1										
27+215; 12.6 Rt			1										
27+233; 10.7 Lt			1										
HALDIMAND ROAD 32													
Sub - Totals Carried Forward:	375		15										
	(P)		(P)										
TOTALS													
UNIT	m2 (P)		each (P)										
ITEM No.	1		2										
Reference													

CHKD. _____

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DATE _____

Grubbing

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 2

Location and Position	*Grubbing*		*Grubbing (each)*										References
Sub - Totals Brought Forward:	375		15										
10+039; 14.7 Lt			1										
Sub - Totals Carried Forward:	375		16										
	(P)		(P)										
TOTALS	375		16										
UNIT	m2 (P)		each (P)										
ITEM No.	1		2										
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Grubbing

QUANTITIES - GRADING

W.P. No. 3056-10-00

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SHEET 3

Description	*Earth Excavation (Grading)*	Reference	*Earth Available for Fill*	*Earth Required*	Reference		*Non-hazardous Earth Excavation*									
Sub - Totals Brought Forward:																
HALDIMAND COUNTY																
HIGHWAY 3																
26+705 - 27+000																
CUT/FILL	1,920		865	450												
STRIPPING	280															
26+840 - 26+980; Rt	145															
CUT/FILL																
STRIPPING																
26+906 - 27+057; 3.7 Lt - 3.7 Rt																
CUT/FILL	218						500									
STRIPPING																
27+000 - 27+283																
CUT/FILL	2,440		1,175	485												
STRIPPING	410															
27+008 - 27+044; Lt																
CUT/FILL	37															
STRIPPING																
27+030 - 27+072; Rt																
CUT/FILL	44															
STRIPPING																
27+044 - 27+054; 10.8 Lt - 9.2 Rt Culvert Removal																
CUT/FILL				21												
STRIPPING																
27+130; 3.5 Lt - 4.1 Rt Culvert Replacement																
CUT/FILL							38									
STRIPPING																
HALDIMAND ROAD 56																
Sub - Totals Carried Forward:	5,494		2,040	956			538									
	(P)															
TOTALS																
UNIT	m3 (P)		each	m3			t									
ITEM No.	3						4									

Total Stripping		960
Stripping Available	50%	480
Top Soil Required		1083
Stripping Balance		-603

Remarks: Volume adjustment factor for earth have been applied to quantities shown.

Reference

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MINISTRY OF TRANSPORTATION - ONTARIO

Earth Excavation, Non-Hazardous Earth Excavation

QUANTITIES - GRADING

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 4

Description	*Earth Excavation (Grading)*	Reference	*Earth Available for Fill*	*Earth Required*	Reference		*Non-hazardous Earth Excavation*									
Sub - Totals Brought Forward:	5,494		2,040	956			538									
9+891 - 9+995																
CUT/FILL	460		150	265												
STRIPPING	95															
9+934 - 9+979; Lt																
CUT/FILL	46															
STRIPPING																
9+934 - 9+977; Rt																
CUT/FILL	44															
STRIPPING																
HALDIMAND ROAD 32																
10+030 - 10+103																
CUT/FILL	555		205	315												
STRIPPING	175															
Sub - Totals Carried Forward:	6,869						538									
	(P)															
TOTALS	6,869		2,395	1,536			538									
UNIT	m3 (P)		each	m3			t									
ITEM No.	3						4									

Total Stripping		960
Stripping Available	50%	480
Top Soil Required		1083
Stripping Balance		-603

Remarks: Volume adjustment factor for earth have been applied to quantities shown.

Reference

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MINISTRY OF TRANSPORTATION - ONTARIO

Earth Excavation, Non-Hazardous Earth Excavation

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00
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SHEET 5

Location and Position	*Tack Coat [Lower Binder]*	*Tack Coat [Upper Binder]*	*Tack Coat [Padding]*		*Asphalt Spillways*								References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+705 - 26+710; Mainline		39											
26+705 - 26+842; Lt PPS		73											
26+705 - 26+850; Rt PPS		69											
26+710 - 26+850; Mainline	1,103	1,103	1,221										
26+720 - 26+850; Rt (Widening)	59	59											
26+740 - 26+850; Lt (Widening)	91	91											
26+850 - 26+885; PPS Lt		18											
26+850 - 26+912; Lt (Widening)	126	126											
26+850 - 26+912; Mainline	559	559	474										
26+842 - 26+912; Rt (CC+G Replacement)	35	35											
26+896 - 26+972; 14.6 - 13.6 Lt (Entrance)		255											
26+912 - 27+052; Mainline	2,446	2,446											
26+919; 19.3 Rt (Entrance)		634											
26+968; Rt					2								
26+973 - 26+986; 14.6 - 28.3 Lt (Entrance)		51											
27+016 - 27+032; Culvert	211	211											
27+052 - 27+100; Rt (Widening)		24											
Sub - Totals Carried Forward:	4,630	5,793	1,695		2								
	(P)	(P)	(P)		(P)								
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)		m (P)								
ITEM No.		5			6								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Tack Coat, Asphalt Spillways

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00
Contract No. 2019-3006

SHEET 6

Location and Position	*Tack Coat [Lower Binder]*	*Tack Coat [Upper Binder]*	*Tack Coat [Padding]*		*Asphalt Spillways*								References
Sub - Totals Brought Forward:	4,630	5,793	1,695		2								
27+052 - 27+100; Mainline	425	425	567										
27+055 - 27+100; PPS Lt		24											
27+055; Lt					2								
27+057 - 27+100; Lt (Widening)		66											
27+080 - 27+100; PPS Rt		11											
27+080; Rt					2								
27+100 - 27+276; PPS Lt		88											
27+100 - 27+276; PPS Rt		88											
27+130; Culvert	180	180											
27+100 - 27+276; Lt (Widening)	197	197											
27+100 - 27+276; Mainline	1,283	1,283	1,077										
27+100 - 27+276; Rt (Widening)	119	119											
27+276 - 27+281; Mainline		36											
HALDIMAND ROAD 56													
9+891 - 9+896; Mainline		38											
9+891 - 9+947; PPS Lt		27											
9+891 - 9+932; PPS Rt		23											
9+896 - 9+927; Mainline		226	143										
9+896 - 9+927; Rt (Widening)	8	8											
Sub - Totals Carried Forward:	6,842	8,632	3,482		6								
	(P)	(P)	(P)		(P)								
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)		m (P)								
ITEM No.		5			6								
Reference													

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DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Tack Coat, Asphalt Spillways

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00
Contract No. 2019-3006

SHEET 7

Location and Position	*Tack Coat [Lower Binder]*	*Tack Coat [Upper Binder]*	*Tack Coat [Padding]*		*Asphalt Spillways*								References
Sub - Totals Brought Forward:	6,842	8,632	3,482		6								
9+900; (Entrance)		73											
9+927 - 9+950; Mainline	182	182											
9+950- 9+979; Mainline	272	272											
9+932; Rt					2								
9+934; Culvert	121	121											
9+947; Lt					2								
9+960; (Entrance)		193											
HALDIMAND ROAD 32													
10+016 - 10+042; Mainline	288	288											
10+020 - 10+033; Culvert	141	141											
10+042 - 10+103; Lt (Widening)	27	27											
10+042 - 10+103; Mainline	413	413	483										
10+042 - 10+103; Rt (Widening)	40	40											
10+064 - 10+103; PPS Lt		19											
10+064 - 10+103 PPS Rt		19											
10+043; Lt					2								
10+043; Rt					2								
10+103 - 10+108; Mainline		35											
Sub - Totals Carried Forward:	8,326	10,455	3,965		14								
	8,326 (P)	10,455 (P)	3,965 (P)		(P)								
TOTALS		22,746			14								
UNIT	m2 (P)	m2 (P)	m2 (P)		m (P)								
ITEM No.		5			6								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Tack Coat, Asphalt Spillways

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 8

Description	*Superpave 12.5FC 1 [40mm Surface]*	*Superpave 12.5FC 1 [50mm Surface]*		*Superpave 19.0 [50mm Binder]*	*Superpave 19.0 [75mm Upper Binder]*	*Superpave 19.0 [75mm Lower Binder]*	*Superpave 19.0 [Padding]*		*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface*							References
Sub - Totals Brought Forward:																
HALDIMAND COUNTY																
HIGHWAY 3																
26+705 - 26+710; Mainline									39							
26+705 - 26+850; Lt PPS					14				73							
26+705 - 27+842; Rt PPS					13				69							
26+710 - 26+850 Mainline				136			172		1,103							
26+720 - 26+850; Rt (Widening)					11	11			59							
26+740 - 26+850; Lt (Widening)					17	17			91							
26+842 - 26+850; Rt (Boulevard)		2														
26+850 - 26+885; PPS Lt					4				18							
26+850 - 27+912; Lt (Widening)					23	23			126							
26+850 - 26+912; Mainline				69			69		559							
26+885 - 26+936; Lt (Boulevard)		17														
26+842 - 26+912; Rt (CC&G Replacement)					6	6			35							
26+896 - 26+973; Lt (Entrance)	26			32												
26+912 - 27+052; Mainline					451	451			2,446							
26+919; Rt (Entrance)	64			78												
26+955 - 26+990; 8.6-16.0 Rt (Boulevard)		9														
26+956 - 26+995; 8.5-21.5 Lt (Boulevard)		10														
Sub - Totals Carried Forward:	90	38		315	539	508	241		4,618							
									(P)							
TOTALS																
UNIT	t	t		t	t	t	t		m2 (P)							
ITEM No.		7			8				9							
Reference																

Remarks:

CHKD. _____

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Misc Asphalt

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 9

Description	*Superpave 12.5FC 1 [40mm Surface]*	*Superpave 12.5FC 1 [50mm Surface]*		*Superpave 19.0 [50mm Binder]*	*Superpave 19.0 [75mm Upper Binder]*	*Superpave 19.0 [75mm Lower Binder]*	*Superpave 19.0 [Padding]*		*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface*							References
Sub - Totals Brought Forward:	90	38		315	539	508	241		4,618							
26+968; Rt (Spillway)	1															
26+973 - 26+986; 14.6 - 28.3 Lt (Entrance)	6			7												
27+008 - 27+055; 21.3 - 8.5 Lt (Boulevard)		13														
27+009 - 27+081; 15.8 - 8.6 Rt (Boulevard)		18														
27+016 - 27+032; Culvert					39	39										
27+052 - 27+100; Rt (Widening)					5	5			24							
27+052 - 27+100; Mainline				53			133		425							
27+055 - 27+100; PPS Lt					5				24							
27+055; Lt (Spillway)	1															
27+057 - 27+100; Lt (Widening)					13	13			66							
27+080 - 27+100; PPS Rt					3				11							
27+080; Rt (Spillway)	1															
27+100 - 27+276; PPS Lt					17				88							
27+100 - 27+276; Lt (Widening)					37	37			197							
27+100 - 27+276; Mainline				158			167		1,283							
27+100 - 27+276; Rt (Widening)					29	29			153							
27+100 - 27+276; PPS Rt					17				88							
27+130; Culvert					33	33										
27+276 - 27+281; Mainline									39							
Sub - Totals Carried Forward:	99	69		533	737	664	541		7,016							
									(P)							
TOTALS																
UNIT	t	t		t	t	t	t		m2 (P)							
ITEM No.		7			8				9							
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Misc Asphalt

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 10

Description	*Superpave 12.5FC 1 [40mm Surface]*	*Superpave 12.5FC 1 [50mm Surface]*		*Superpave 19.0 [50mm Binder]*	*Superpave 19.0 [75mm Upper Binder]*	*Superpave 19.0 [75mm Lower Binder]*	*Superpave 19.0 [Padding]*		*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface*							References
Sub - Totals Brought Forward:	99	69		533	737	664	541		7,016							
HALDIMAND ROAD 56																
9+891 - 9+896; Mainline									38							
9+891 - 9+947; PPS Lt					5				27							
9+891 - 9+932; PPS Rt					5				23							
9+896 - 9+927; Mainline				28			20		226							
9+896 - 9+927; Rt (Widening)					2	2			8							
9+900; Lt (Entrance)	8			9												
9+927 - 9+950; Mainline					34	34			182							
9+934; Culvert					22	22										
9+932; Rt (Spillway)	1															
9+930 - 9+945; Rt Boulevard		3														
9+947 - 9+979; Lt (Boulevard)		9														
9+947; Lt (Spillway)	1															
9+950 - 9+979; Mainline					51	51			272							
9+960; Rt (Entrance)	20			24												
9+968 - 9+979; 6.8 - 7.6 Rt (Boulevard)		3														
HALDIMAND ROAD 32																
10+016 - 10+050; 11.4 - 6.8 Lt (Boulevard)		9														
10+016 - 10+042; Mainline					53	53			288							
Sub - Totals Carried Forward:	129	93		594	909	826	561		8,080							
									(P)							
TOTALS																
UNIT	t	t		t	t	t	t		m2 (P)							
ITEM No.		7			8				9							
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Misc Asphalt

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 11

Description	*Superpave 12.5FC 1 [40mm Surface]*	*Superpave 12.5FC 1 [50mm Surface]*		*Superpave 19.0 [50mm Binder]*	*Superpave 19.0 [75mm Upper Binder]*	*Superpave 19.0 [75mm Lower Binder]*	*Superpave 19.0 [Padding]*		*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface*							References
Sub - Totals Brought Forward:	129	93		594	909	826	561		8,080							
10+016 - 10+050; 12.9 - 6.8 Rt (Boulevard)		9														
10+020 - 10+033; Culvert					26	26										
10+050 - 10+065; 6.8 Lt (Boulevard)		5														
10+050 - 10+066; 6.8 Rt (Boulevard)		5														
10+042 - 10+103; Lt (Widening)					5	5			27							
10+042 - 10+103; Mainline				51			76		413							
10+042 - 10+103; Rt (Widening)					7	7			40							
10+064 - 10+103; PPS Lt					4				19							
10+064 - 10+103 PPS Rt					4				19							
10+043; Lt (Spillway)	1															
10+043; Rt (Spillway)	1															
10+103 - 10+108; Mainline									39							
Sub - Totals Carried Forward:	131	112		645	955	864	637		8,637							
	131	112		645	955	864	637		(P)							
TOTALS		243			3,101				8,637							
UNIT	t	t		t	t	t	t		m2 (P)							
ITEM No.		7			8				9							
Reference																

Remarks:

CHKD. _____

APPR. _____

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Misc Asphalt

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 12

Description	*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill to Culvert]*		*Granular B, Type III [Roadbase]*		*Clear Stone*								References
Sub - Totals Brought Forward:																
HALDIMAND COUNTY																
HIGHWAY 3																
26+705 - 26+840; Rt		121														
26+705 - 26+850; Lt		157														
26+720 - 26+850; Rt (Widening)	131					780										
26+740 - 26+850; Lt (Widening)	168	157				755										
26+789 - 26+796 RT; Entrance Culvert			17													
26+792; 16.1 Rt			26													
26+819 - 26+831 LT; Entrance Culvert			46													
26+826; 16.1 Lt			18													
26+840 - 26+980; Rt (Subdrain Reinstatement)	319															
26+842 - 26+850; Rt (Boulevard)		5														
26+847 - 26+867 RT; Entrance Culvert			58													
26+850 - 26+990; Lt (Widening)	257	38				1,190										
26+880 - 26+893 LT; Culvert (behind Bell box)			27													
26+885 - 26+936; Lt (blvd)		31														
26+906 - 27+052; Mainline	1,804															
26-944 - 26+961 RT; Entrance Culvert			89													
26+955 - 26+989; Rt (blvd)		23				185										
Sub - Totals Carried Forward:	2,679	532	281	0		2,910		0								
TOTALS																
UNIT	t	t	t	t		t		t								
ITEM No.		10				11		12								
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Granular A & B + Clear Stone

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 13

Description	*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill to Culvert]*		*Granular B, Type III [Roadbase]*		*Clear Stone*								References
Sub - Totals Brought Forward:	2,679	532	281	0		2,910		0								
26+956 - 26+995; Lt (blvd)		27														
26+976 - 26+997; Rt (Widening)	29					180										
27+004 - 27+040; Rt (Widening)	68					242										
27+004 - 27+080; Rt (blvd)		47														
27+008 - 27+050; Lt (blvd)		31														
27+016 - 27+032; 18.5 Rt - 14.8 Lt; Culvert	213			60				47								
27+008 - 27+044; Lt (Subdrain Reinstatement)	81															
27+030 - 27+072; Rt (Subdrain Reinstatement)	97															
27+050 - 27+100; Lt	92	54				355										
27+054; 14.1 Rt			79													
27+080 - 27+100; Rt	34	18				145										
27+084 - 27+092 Lt; Entrance Culvert			60													
27+088; 15.0 Lt			40													
27+100 - 27+281; Lt	249	191				1,300										
27+100 - 27+281; Rt	273	157				1,205										
27+130; 13.1 Lt - 11.9 Rt Culvert	142			80				32								
27+209; 15.1 Rt			21													
27+270 - 27+283 RT; Entrance Culvert			30													
27+276; 15.1 Rt			31													
Sub - Totals Carried Forward:	3,957	1,057	542	140		6,337		79								
TOTALS																
UNIT	t	t	t	t		t		t								
ITEM No.		10				11		12								
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Granular A & B + Clear Stone

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 14

Description	*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill to Culvert]*		*Granular B, Type III [Roadbase]*		*Clear Stone*								References
Sub - Totals Brought Forward:	3,957	1,057	542	140		6,337		79								
HALDIMAND RD 56																
9+891 - 9+945; Rt	51															
9+904 - 9+947; Lt	44															
9+901 - 9+948; Rt (Culvert Staging)	57			80												
9+909 - 9+945; Lt (Culvert Staging)	15															
9+930 - 9+945; Rt (Boulevard)	7															
9+933; 11.9 Lt - 12.1 Rt (Culvert)	387			115				31								
9+927 - 9+979	345															
9+947 - 9+979; Lt (blvd)		21														
9+947 - 9+972 Rt; Entrance Culvert			252													
9+968 - 9+979; Rt (blvd)		6														
HALDIMAND ROAD 32																
10+016 - 10+050; Lt	21					155										
10+016 - 10+050; Rt	42					241										
10+016 - 10+050	211															
10+016 - 10+050; Lt (blvd)		23														
10+016 - 10+050; Rt (blvd)		23														
10+018 - 10+048; Lt (Culvert Staging)	15															
10+020 - 10+033; 14.6 Lt - 14.1 Rt (Culvert)	51			40				40								
Sub - Totals Carried Forward:	5,203	1,130	794	375		6,733		150								
TOTALS																
UNIT	t	t	t	t		t		t								
ITEM No.		10				11		12								
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Granular A & B + Clear Stone

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 15

Description	*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill to Culvert]*		*Granular B, Type III [Roadbase]*		*Clear Stone*								References
Sub - Totals Brought Forward:	5,203	1,130	794	375		6,733		150								
10+050 - 10+065; Lt (Boulevard)	10															
10+051 -10+098; Lt	43					235										
10+050 - 10+066; Rt (Boulevard)	10															
10+051 -10+098; Rt	53					240										
10+065 - 10+108; Lt		42														
10+066 - 10+108; Rt		35														
Sub - Totals Carried Forward:	5,319	1,207	794	375		7,208		150								
	5,319	1,207	794	375												
TOTALS		7,695				7,208		150								
UNIT	t	t	t	t		t		t								
ITEM No.		10				11		12								
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Granular A & B + Clear Stone

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 16

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Concrete Curb and Gutter [600.010] [Straight]*	*Concrete Curb and Gutter [600.010] [Circular]*		*Concrete Gutter Outlets [OPSD 604.010]*	*Concrete Gutter Outlets [OPSD 605.030]*	*Concrete Gutter Outlets [OPSD 605.010]*							References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+842 - 26+865; 5.7 - 6.0 Rt	23												
26+860 - 26+865; 13.5 - 5.8 Rt		13											
26+863 - 26+945; 14.1 Rt	82												
26+865 - 26+993; 5.8 - 21.6 Rt	137												
26+885 - 26+994; 6.0 - 19.3 Lt	113												
26+944 - 26+949; 6.0 - 13.8 Rt		11											
26+923; 6.0 Rt						1							
26+934 - 26+942; 13.0 Lt	9												
26+942 - 26+943; 13.0 - 11.8 Lt		3											
26+954; 9.0 - 18.0 Rt	9												
26+926 - 26+943; 6.0 - 11.8 Lt	13												
26+954 - 26+959; 9.0 - 6.0 Rt		6											
26+955 - 26+962; 10.4 - 6.3 Lt		8											
26+955 - 26+981; 10.4 - 18.6 Lt	29												
26+968; 6.0 Rt						1							
27+005 - 27+080; 21.5 - 6.0 Rt	81												
27+008 - 27+055; 19.1 - 6.0 Lt	53												
Sub - Totals Carried Forward:	549	41		0	0	2							
	(P)	(₱)		(P)	(₱)	(P)							
TOTALS													
UNIT	m (P)	m (P)		each (P)	each (P)	each (P)							
ITEM No.		13			14								
Reference													

CHKD. _____

APPR. _____

DATE _____

Curb & Gutter

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 17

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Concrete Curb and Gutter [600.010] [Straight]*	*Concrete Curb and Gutter [600.010] [Circular]*		*Concrete Gutter Outlets [OPSD 604.010]*	*Concrete Gutter Outlets [OPSD 605.030]*	*Concrete Gutter Outlets [OPSD 605.010]*							References
Sub - Totals Brought Forward:	549	41		0	0	2							
27+055; 6.0 Lt					1								
27+080; 6.0 Rt					1								
HALDIMAND ROAD 56													
9+932; 4.3 Rt					1								
9+932 - 9+981; 4.3 - 5.8 Rt	49												
9+941 - 9+953; 4.3 - 13.6 Rt	16												
9+947 - 9+981; 4.3 - 8.0 Lt	34												
9+947; 4.3 Lt					1								
9+947 - 9+953; 13.6 Rt	6												
9+953 - 9+954; 13.6 - 11.9 Rt		2											
9+966 - 9+974; 11.4 - 4.3 Rt		13											
9+966 - 9+981; 11.4 - 18.2 Rt	16												
9+980; 18.2 Rt				1									
HALDIMAND ROAD 32													
10+022 - 10+066; 7.7 - 4.3 Rt	45												
10+022 - 10+065; 7.7 - 4.3 Lt	43												
10+043; Lt				1									
10+043; Rt				1									
Sub - Totals Carried Forward:	758	56		3	4	2							
	758 (P)	56 (P)		3 (P)	4 (P)	2 (P)							
TOTALS		814			9								
UNIT	m (P)	m (P)		each (P)	each (P)	each (P)							
ITEM No.		13			14								
Reference													

CHKD. _____

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DATE _____

Curb & Gutter

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 18

Location and Position	150 mm Pipe Subdrain [Roadway Class I, Non-woven 75-150um, Clearstone]	150 mm Pipe Subdrain [Class I, Non-woven, 75-150 um Clearstone, Non-perforated Outlet]		150 mm Pipe Subdrain [Elbow]		150 mm Pipe Subdrain [Rodent Grate]		Closed Circuit Television Inspection					References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
Throughout Project								59					
26+730 - 26+987; Lt	258												
26+730 - 26+985; Rt	256												
26+987 - 26+988; Lt		1						1					
27+030 - 27+128; Lt	98												
27+021 - 27+128; Rt	107												
27+128; Rt		6		1		1		6					
27+128; Lt		6		1		1		6					
27+131; Lt		6		1		1		6					
27+131 - 27+226; Lt	96												
27+132; Rt		6		1		1		6					
HALDIMAND ROAD 32													
10+012 - 10+028; 14.8 - 7.1 Rt	19												
10+025 - 10+043; Lt	18												
10+028; Rt		7		1		1		7					
10+030 - 10+043; Rt	13												
10+043; Rt		7		1		1		7					
Sub - Totals Carried Forward:	865	39		6		6		98					
	(P)	(P)											
TOTALS													
UNIT	m (P)	m (P)		each		each		m					
ITEM No.		15						16					
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Subdrain, CCTV

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 19

Location and Position	*150 mm Pipe Subdrain [Roadway Class I, Non-woven 75-150um, Clearstone]*	*150 mm Pipe Subdrain [Class I, Non-woven, 75-150 um Clearstone, Non-perforated Outlet]*		*150 mm Pipe Subdrain [Elbow]*		*150 mm Pipe Subdrain [Rodent Grate]*		*Closed Circuit Television Inspection*					References
Sub - Totals Brought Forward:	865	39		6		6		98					
10+043; Lt		6		1		1		6					
10+044; Rt		7		1		1		7					
10+044; Lt		6		1		1		6					
10+044 - 10+103; Rt	59												
10+044 - 10+103; Lt	59												
HALDIMAND ROAD 56													
9+934; Rt		6		1		1		6					
9+934 - 9+987; Rt	53												
9+934; Lt		6		1		1		6					
9+934 - 9+979; Lt	45												
Sub - Totals Carried Forward:	1,081	70						129					
	1,081 (P)	70 (P)											
TOTALS		1,151		11		11		129					
UNIT	m (P)	m (P)		each		each		m					
ITEM No.		15						16					
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Subdrain, CCTV

QUANTITIES - DRAINAGE, MANHOLES, CATCH BASINS AND DITCH INLETS

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 20

Location	Str No	Station	Offset CL Grate or Cover	Type of Structure Std No	New Grate Std No	Slope of Grate	Top of Grate Elevation	Low Invert Elevation	Depth of Structure	*1200 mm Manholes Catch Basins and Ditch Inlets*									References
Sub - Totals Brought Forward:																			
HALDIMAND COUNTY																			
HALDIMAND ROAD 56	1	9+977	11.8 Rt	701.010	400.010		192.67	190.886	2.08	1									
Sub - Totals Carried Forward:										1									
										(P)									
TOTALS										1									
UNIT										each (P)									
ITEM No.										17									

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Drainage Structures

QUANTITIES - SEWERS

W.P. No. 3056-10-00
Contract No. 2019-3006

SHEET 21

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation Upstream	Inv Elevation Downstream	Depth to Pipe	Pipe Fill Material Bedding	Pipe Fill Material Cover	Pipe Fill Material Backfill	Pipe Joints	*400 mm Pipe Sewer 400+50 S 101000 400+50 C 000031*						References
Sub - Totals Brought Forward:															
	HALDIMAND COUNTY														
	HIGHWAY 3														
26+935 - 26+990	11.1 - 12.1 Lt	191.87	191.08	0.3	A	A	A		53						
	HALDIMAND ROAD 56														
9+977 - 9+987	11.4 - 11.8 Rt	190.886	190.70	1.33	A	A	A		11						
Sub - Totals Carried Forward:									64						
									(P)						
TOTALS									64						
UNIT									m (P)						
ITEM No.									18						

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete
- 1 - 50-D
- 2 - 65-D
- 3 - 100-D
- 4 - 140-D

2nd digit = PVC/PP
- 1 - PVC
- 2 - PP

3rd digit = HDPE
- 1 - Open profile
- 2 - Closed profile

4th digit = Galv; 5th digit = Alum & 6th digit = Polymer Steel
- 1 - 1.6 mm thick
- 2 - 2.0 mm thick
- 3 - 2.8, 3.0 & 3.18 mm thick
- 4 - 3.5, 3.81 & 4.0 mm thick
- 5 - 4.2, 4.45 & 5.0 mm thick
- 6 - 5.08 & 6.0 mm thick
- 7 - 5.72 & 7.0 mm thick
- 8 - 6.35 mm thick

Note: '0' for any digit means the pipe material is not acceptable. Higher pipe material code values are also acceptable, unless otherwise stated. Galv. means galvanized coating. Alum means aluminized coated or aluminum alloy materials. Polymer means both laminated and coated steel pipes.

Pipe Joints
- **S -** Soil tight
- **F -** Silt/Fines tight
- **L -** Leak tight

Note: S joints is specified if no code is entered.

Pipe Type
- **S -** Smooth inner wall pipe
- **C -** Corrugated inner wall pipe

Depth to Pipe is from the surface at the upstream invert to top of base pipe opening unless otherwise stated.

Pipe Fill Material
- **N -** Native or Granular
- **G -** Granular A or B Type I, II or III
- **B -** Granular A or B Type II
- **A -** Granular A
- **U -** Unshrinkable fill

Notes: N applies to cover and backfill only.
1 letter code specifies material for all pipes.
2 letter codes specify fill materials for rigid and flexible pipes respectively.
G for bedding and N for cover and backfill are specified if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

CHKD. _____
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DATE _____

QUANTITIES - PIPE CULVERTS

W.P. No. 3056-10-00
Contract No. 2019-3006

SHEET 22

Culvert No	Station	Location and Position	Ext Left	Ext Right	Skew No	End Finish	Depth to Pipe	Pipe Fill Material: Bedding	Pipe Fill Material: Cover	Pipe Fill Material: Backfill	Pipe Joints	Treatment	Inv Elev: Upstream	Inv Elev: Downstream	*400 mm Pipe Culvert 450 + 0 S 100021 450 + 0 C 000021*		*500 mm Pipe Culvert 525+0 S 100043 525+0 C 100043*		*600 mm Pipe Culvert 600+0 S 100043 600+0 C 100043*		References
		Sub - Totals Brought Forward:																			
		HALDIMAND COUNTY																			
		HIGHWAY 3																			
1		26+789 - 26+796; 10.5 - 10.7 Rt (Entrance Culvert)					0.26	A	A	A			192.341	192.308	7						
2		26+819 - 26+831; 11.2 - 11.1 Lt (Entrance Culvert)					0.38	A	A	A			192.318	192.284			12				
3		26+847 - 26+867; 12.7 - 11.3 Rt (Entrance Culvert)					0.3	A	A	A			192.054	191.954			20				
4		26+880 - 26+893; 12.7 - 12.4 Lt (Entrance Culvert)					0.2	A	A	A			192.097	192.005			13				
5		26+944 - 26+961; 10.6 - 14.9 Rt (Entrance Culvert)					0.32	A	A	A			191.563	191.484			17				
7		27+084 - 27+092; 13.6 - 135 Lt (Entrance Culvert)					0.7	A	A	A			190.455	190.431					9		
9		27+270 - 27+283; 10.0 - 9.1 Rt (Entrance Culvert)					0.24	A	A	A			190.934	190.815			13				
		HALDIMAND ROAD 56																			
11		9+947 - 9+972; 11.3 - 11.4 Rt (Entrance Culvert, Haldimand Rd 56)					1.1	A	A	A			190.66	190.533			25				
		Sub - Totals Carried Forward:													7		100		9		
															(P)		(P)		(P)		
		TOTALS													7		100		9		
		UNIT													m (P)		m (P)		m (P)		
		ITEM No.													19		20		21		

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete
1 - 50-D or HE-A
2 - 65-D or HE-I
3 - 100-D or HE-II
4 - 140-D or HE-III
5 - HE-IV

2nd digit = PVC/PP
1 - PVC
2 - PP

3rd digit = HDPE
1 - Open Profile
2 - Closed Profile

4th digit = Galv; 5th digit = Alum, & 6th digit = Polymer Steel
1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8, 3.0 & 3.18 mm thick
4 - 3.5, 3.81 & 4.0 mm thick
5 - 4.2, 4.45 & 5.0 mm thick
6 - 5.08 & 6.0 mm thick
7 - 5.72 & 7.0 mm thick
8 - 6.35 mm thick

Note: '0' for any digit means the pipe material is not acceptable. Higher pipe material code values are also acceptable, unless otherwise stated. Galv. means galvanized coating. Alum means aluminized coated or aluminum alloy materials. Polymer means both laminated and coated steel pipes. Applies to circular and non-circular pipes.

Pipe Type
S - Smooth inner wall pipe
C - Corrugated inner wall pipe

Pipe Joints
S - Soil tight
F - Silt/Fines tight
L - Leak tight

Note: S joints is specified if no code is entered.

End Finish (OPSD 801.01 - 02 - 03)
SqE - Square End
B - Bevel
Sk - Skew End
SB - Step Bevel
ES - Steel end section
Note: All pipes are SqE and symmetrical to CL unless otherwise stated.

Treatments
F - Frost Treatment
P - Pave Invert
S - Channel Substrate
B - Fish Baffles

Depth to Pipe is from the surface downward to top of base pipe opening at midpoint by length unless otherwise stated.

Pipe Fill Material
N - Native or Granular
G - Granular A or B Type I, II or III
B - Granular A or B Type II
A - Granular A
U - Unshrinkable fill

Notes: N applies to cover and backfill only.
1 letter specifies material for all pipes.
2 letter codes specifies fill material for rigid and flexible pipes respectively.
G for bedding and N for cover and backfill is specified if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration
Frost Penetration depth - 1.2 m

CHKD. _____
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DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts 400, 500, 600

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 23

Location and Position	*1800 mm x 900 mm Precast Concrete Box Culvert*													References
Sub - Totals Brought Forward:														
HALDIMAND COUNTY														
HIGHWAY 3														
27+016 - 27+032; 14.8 Lt - 18.5 Rt	37.0													
27+130; 13.1 Lt - 11.9 Rt	25.0													
HALDIMAND ROAD 56														
9+934; 11.9 Lt - 12.1 Rt	24.0													
HALDIMAND ROAD 32														
10+020 - 10+033; 14.6 Lt - 14.1 Rt	31.0													
Sub - Totals Carried Forward:	117.0													
	(P)													
TOTALS	117.0													
UNIT	m (P)													
ITEM No.	22													
Reference														

CHKD. _____

APPR. _____

DATE _____

1800 x 900 Culverts

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 24

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*		*Removal of Asphalt Pavement, Partial Depth [40mm]*	*Removal of Asphalt Pavement, Partial Depth [90mm]*	*Removal of Asphalt Pavement, Partial Depth [90-130mm]*								References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+705 - 26+710; Mainline			38										
26+705 - 26+850; PPS Lt	73												
26+705 - 26+820; PPS Rt	93												
26+710 - 26+850; Mainline					750								
26+725 - 26+850; Mainline				354									
26+844; Entrance Rt	210												
26+850 - 26+895; PPS Lt	22												
26+850 - 26+912; Mainline				227	361								
26+912 - 27+052; Mainline	2,048												
26+882 - 26+940; Median Insland Rt	84												
26+909; Entrance Lt	211												
26+919; Entrance Rt	801												
26+921 - 26+948; PPS Lt	14												
26+922 - 26+951; Entrance Lt	13												
26+959; Entrance Lt	212												
27+016 - 27+052; PPS Rt	18												
27+043 - 27+054; Culvert	133												
Sub - Totals Carried Forward:	3,932		38	581	1,111								
	(P)		(P)	(P)	(P)								
TOTALS													
UNIT	m2 (P)		m2 (P)	m2 (P)	m2 (P)								
ITEM No.	23			24									
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of Asphalt Pavement, Removal of Asphalt - Partial Depth

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 25

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*		*Removal of Asphalt Pavement, Partial Depth [40mm]*	*Removal of Asphalt Pavement, Partial Depth [90mm]*	*Removal of Asphalt Pavement, Partial Depth [90-130mm]*								References
Sub - Totals Brought Forward:	3,932		38	581	1,111								
27+052 - 27+100; Mainline				265	160								
27+052 - 27+100; PPS Lt	38												
27+052 - 27+080; Rt (Proposed CC+G)	15												
27+080 - 27+100; PPS Rt	10												
27+100 - 27+124; PPS Lt	12												
27+100 - 27+124; Mainline				162	38								
27+100 - 27+124; PPS Rt	12												
27+124 - 27+134; Mainline (Culvert)	85												
27+134 - 27+276; Mainline				317	688								
27+134 - 27+276; PPS Lt	71												
27+134 - 27+276; PPS Rt	71												
27+276 - 27+281; Mainline			39										
HALDIMAND ROAD 56													
9+891 - 9+896; Mainline			38										
9+891 +9+895; PPS Lt	3												
9+891 - 9+927; PPS Rt	27												
9+896 - 9+927; Mainline					243								
9+900; Entrance Lt	75												
9+905 - 9+927; PPS Lt	23												
Sub - Totals Carried Forward:	4,374		115	1,325	2,240								
	(P)		(P)	(P)	(P)								
TOTALS													
UNIT	m2 (P)		m2 (P)	m2 (P)	m2 (P)								
ITEM No.	23			24									
Reference													

CHKD. _____

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DATE _____

Removal of Asphalt Pavement, Removal of Asphalt - Partial Depth

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 26

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*		*Removal of Asphalt Pavement, Partial Depth [40mm]*	*Removal of Asphalt Pavement, Partial Depth [90mm]*	*Removal of Asphalt Pavement, Partial Depth [90-130mm]*								References
Sub - Totals Brought Forward:	4,374		115	1,325	2,240								
9+927 - 9+950; Mainline	200												
9+928 - 9+940; Culvert	111												
9+950 - 9+979; Mainline	281												
9+950 - 9+979; PPS Lt	15												
9+956; Entrance Rt	206												
9+968 - 9+977; PPS Rt	4												
9+986 - 9+965 Entrance Rt	56												
HALDIMAND ROAD 32													
10+016 - 10+050; PPS Lt	17												
10+016 - 10+042; Mainline	181												
10+016 - 10+050; PPS Rt	17												
10+024 - 10+028; Culvert	33												
10+050 - 10+103; PPS Lt	26												
10+042 - 10+070; Mainline				191									
10+050 - 10+103; PPS Rt	26												
10+070 - 10+103; Mainline					222								
10+103 - 10+108; Mainline			34										
Sub - Totals Carried Forward:	5,547		149	1,516	2,462								
	(P)		149 (P)	1,516 (P)	2,462 (P)								
TOTALS	5,547			4,127									
UNIT	m2 (P)		m2 (P)	m2 (P)	m2 (P)								
ITEM No.	23			24									
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Removal of Asphalt Pavement, Removal of Asphalt - Partial Depth

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 27

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of MH's, CB's, DI', and VC's*		*Removal of Pipes and Culverts [CSP]*		*Removal of Fence [Post and Wire]*		*Removal of Concrete*				References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+789 - 26+798; 9.3 Rt					9								
26+818 - 26+830; 8.1 Lt					12								
26+826 - 26+862; 10.5 - 11.6 Rt					36								
26+878; 11.4 Rt			1										
26+878 - 27+011; 11.4 Rt					134								
26+882 - 26+940; 12.0 Rt	117												
26+899 - 26+922; 8.3 Lt					23								
26+939; 10.8 Rt			1										
26+951 - 26+975; 8.1 - 10.6 Lt					24								
26+953 - 26+996; 13.5 - 15.6 Rt	51												
26+968 - 26+990;12.6 Lt - 9.9 Lt	27												
26+993; 9.2 Rt			1										
27+004 - 27+016; 15.9 - 7.3 Rt	16												
27+014 - 27+025; 9.7 - 6.8 Lt	12												
27+045 - 27+116; 18.2 - 14.1 Lt							73						
27+044; 9.4 Rt			1										
27+044 - 27+054; 9.4 Rt - 10.8 Lt					22								
Sub - Totals Carried Forward:	223		4		260		73		0				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m (P)		each (P)		m (P)		m (P)		m3 (P)				
ITEM No.	25		26		27		28		29				
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of CC&G, Drainage Structures, Pipes & Culverts, Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 28

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of MH's, CB's, DI', and VC's*		*Removal of Pipes and Culverts [CSP]*		*Removal of Fence [Post and Wire]*		*Removal of Concrete*				References
Sub - Totals Brought Forward:	223		4		260		73		0				
27+083 - 27+092; 9.3 Lt					9								
27+130; 9.3 Lt - 9.2 Rt					19								
27+271 - 27+283; 8.6 - 9.0 Rt					12								
HALDIMAND ROAD 56													
9+934; 9.2 Lt - 9.0 Rt									16				
9+947 - 9+963; 10.1 - 9.8 Rt					17								
9+979 - 9+990; 7.9 - 13.8 Lt	14												
HALDIMAND ROAD 32													
10+022 - 10+031; 9.9 Lt - 9.3 Rt					21								
Sub - Totals Carried Forward:	237		4		338		73		16				
	(P)		(P)		(P)		(P)		(P)				
TOTALS	237		4		338		73		16				
UNIT	m (P)		each (P)		m (P)		m (P)		m3 (P)				
ITEM No.	25		26		27		28		29				
Reference													

CHKD. _____

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DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of CC&G, Drainage Structures, Pipes & Culverts, Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00
Contract No. 2019-3006

SHEET 29

Location and Position	*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*		*Temporary Flow Passage System*								References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
Culverts 6, 8, 10 & 12					100 %								
HIGHWAY 3													
26+894; Lt	8		12										
26+923; Rt	8		12										
26+934; Lt	4		7										
26+961; Rt	10		14										
26+972; Rt	17		23										
27+032; Lt	13		18										
27+058; Lt	15		22										
27+082; Rt	11		15										
27+128; Lt	3		5										
27+130; Lt	12		16										
27+132; Rt	3		5										
HALDIMAND ROAD 56													
9+930; Rt	17		23										
9+934; Lt	16		21										
9+934; Rt	4		7										
9+945; Lt	10		15										
Sub - Totals Carried Forward:	151		215		100 %								
	(P)		(P)										
TOTALS													
UNIT	m2 (P)		m2 (P)		lump sum								
ITEM No.	30		31		32								
Reference													

CHKD. _____
APPR. _____
DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip Rap, Geotextile, Temp Flow Passage System

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 30

Location and Position	*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*		*Temporary Flow Passage System*								References
Sub - Totals Brought Forward:	151		215		100 %								
9+976 - 9+984; Rt	20		27										
HALDIMAND ROAD 32													
10+020; Lt	21		27										
10+033; Rt	11		15										
10+043; Rt	8		14										
10+043; Lt	8		14										
Sub - Totals Carried Forward:	219		312		100 %								
	(P)		(P)										
TOTALS	219		312		100 %								
UNIT	m2 (P)		m2 (P)		lump sum								
ITEM No.	30		31		32								
Reference													

CHKD. _____

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DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip Rap, Geotextile, Temp Flow Passage System

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 31

Location and Position	*Small Signs, Ground Mounted, New*		*Small Signs, Relocation*		*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*				References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
Throughout Project							100 %						
HIGHWAY 3													
26+105; Rt									1				
26+475; Rt	1												
26+550; Rt	1												
26+639; Rt	1												
26+725; Lt	1												
26+725; Rt					1								
26+768; Rt					1								
26+791; Lt					1								
26+850; Lt	1												
26+859; Lt					1								
26+878; Lt					1								
26+884; Rt					1								
26+896; Lt					1								
26+925; Lt	1												
26+925; Rt	1												
26+938; Lt					1								
Sub - Totals Carried Forward:	7		0		8		100 %		1				
	(P)		(P)		(P)				(P)				
TOTALS													
UNIT	each (P)		each (P)		each (P)		lump sum		each (P)				
ITEM No.	33		34		35		36		37				
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Signs, Traffic Control, TC-64s

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 32

Location and Position	*Small Signs, Ground Mounted, New*		*Small Signs, Relocation*		*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*				References
Sub - Totals Brought Forward:	7		0		8		100 %		1				
26+939; Rt					1								
26+942; Lt					1								
26+959; Rt					1								
26+960; Lt	1												
26+971; Rt	1												
26+987; Rt					1								
26+994; Lt					1								
27+007; Rt					1								
27+013; Lt			1										
27+030; Lt	1												
27+048; Lt					1								
27+075; Lt	1												
27+080; Rt	1												
27+084; Rt	1												
27+155; Rt	1												
27+227;Rt					1								
27+228; Lt					1								
27+235; Rt	1												
27+360; Lt	1												
Sub - Totals Carried Forward:	16		1		17		100 %		1				
	(P)		(P)		(P)				(P)				
TOTALS													
UNIT	each (P)		each (P)		each (P)		lump sum		each (P)				
ITEM No.	33		34		35		36		37				
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Signs, Traffic Control, TC-64s

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 33

Location and Position	*Small Signs, Ground Mounted, New*		*Small Signs, Relocation*		*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*				References
Sub - Totals Brought Forward:	16		1		17		100 %		1				
27+450; Lt	1												
27+525; Lt	1												
27+883; Lt									1				
HALDIMAND ROAD 56													
9+297; Rt									1				
9+670; Rt					1								
9+960 Lt					1								
9+970; Rt	1												
HALDIMAND ROAD 32													
10+011; Rt					1								
10+030; Lt	1												
10+052; Rt	1												
10+153; Lt					1								
10+360; Lt	1												
10+908; Lt									1				
Sub - Totals Carried Forward:	22		1		21		100 %		4				
	(P)		(P)		(P)				(P)				
TOTALS	22		1		21		100 %		4				
UNIT	each (P)		each (P)		each (P)		lump sum		each (P)				
ITEM No.	33		34		35		36		37				
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Signs, Traffic Control, TC-64s

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 34

Location and Position	Pavement Marking [Double Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [333 Broken] [White, 10cm]		Pavement Marking, Durable [Solid] [White, 60cm]	Pavement Marking, Durable [Double Solid] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 10cm]	Pavement Marking, Durable [Broken 3-3-3] [White, 10cm]		Pavement Marking Symbols, Durable [Left-Turn]	Pavement Marking Symbols, Durable [Straight/Right-Turn]		References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+705 - 26+710; CL	10												
26+705 - 26+850; 3.8 Lt		145											
26+705 - 26+850; 3.8 Rt		145											
26+710 - 26+850; 1.8 Lt						280							
26+710 - 26+850; 1.8 Rt								70					
26+838; CL										1			
26+850 - 26+990; 5.5 Lt		140											
26+850 - 26+990; 5.5 Rt		140											
26+850 - 26+974; 1.8 Lt						248							
26+850 - 26+866; 1.8 Rt								8					
26+869 - 26+974; 1.8 Rt							105						
26+898; CL										1			
26+960; CL										1			
26+975; Stop Bar					47								
27+010 - 27+100; 5.5 Lt		90											
27+010 - 27+100; 5.5 Rt		90											
27+025; Stop Bar					48								
Sub - Totals Carried Forward:	10	750	0		95	528	105	78		3	0		
	(P)	(₱)	(P)		(P)	(₱)	(P)	(P)		(P)	(₱)		
TOTALS													
UNIT	m (P)	m (P)	m (P)		m (P)	m (P)	m (P)	m (P)		each (P)	each (P)		
ITEM No.		38				39					40		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 35

Location and Position	Pavement Marking [Double Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [333 Broken] [White, 10cm]		Pavement Marking, Durable [Solid] [White, 60cm]	Pavement Marking, Durable [Double Solid] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 10cm]	Pavement Marking, Durable [Broken 3-3-3] [White, 10cm]		Pavement Marking Symbols, Durable [Left-Turn]	Pavement Marking Symbols, Durable [Straight/Right-Turn]		References
Sub - Totals Brought Forward:	10	750	0		95	528	105	78		3	0		
27+026 - 27+100; 1.8 Lt							74						
27+026 - 27+100; 1.8 Rt						148							
27+041; CL										1			
27+041: 4.5 Lt											1		
27+074;CL										1			
27+107; CL										1			
27+100 - 27+281; 5.5 Lt		181											
27+100 - 27+111; 1.8 Lt							11						
27+100 - 27+271; 1.8 Rt						342							
27+100 - 27+281; 5.5 Rt		182											
27+114 - 27+271; 1.8 Lt								79					
27+142; CL										1			
27+271 - 27+281; CL	20												
HALDIMAND ROAD 56													
9+891 - 9+950; 3.8 Lt		59											
9+891 - 9+950; CL	118												
9+891 - 9+950; 3.8 Rt		59											
9+950 - 9+977; CL	54												
9+977; Stop Bar					28								
Sub - Totals Carried Forward:	202	1,231	0		123	1,018	190	157		7	1		
	(P)	(₱)	(P)		(P)	(₱)	(P)	(P)		(P)	(₱)		
TOTALS													
UNIT	m (P)	m (P)	m (P)		m (P)	m (P)	m (P)	m (P)		each (P)	each (P)		
ITEM No.		38				39					40		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 36

Location and Position	Pavement Marking [Double Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [333 Broken] [White, 10cm]		Pavement Marking, Durable [Solid] [White, 60cm]	Pavement Marking, Durable [Double Solid] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 10cm]	Pavement Marking, Durable [Broken 3-3-3] [White, 10cm]		Pavement Marking Symbols, Durable [Left-Turn]	Pavement Marking Symbols, Durable [Straight/Right-Turn]		References
Sub - Totals Brought Forward:	202	1,231	0		123	1,018	190	157		7	1		
HALDIMAND ROAD 32													
10+023; Stop Bar					29								
10+023 - 10+050; CL	54												
10+050 - 10+108; 3.8 Lt		58											
10+050 - 10+108; CL	111												
10+050 - 10+108; 3.8 Rt		58											
Sub - Totals Carried Forward:	367	1,347	0		152	1,018	190	157		7	1		
	367 (P)	1,347 (₱)	0 (P)		152 (P)	1,018 (₱)	190 (P)	157 (P)		7 (P)	1 (₱)		
TOTALS		1,714				1,517					8		
UNIT	m (P)	m (P)	m (P)		m (P)	m (P)	m (P)	m (P)		each (P)	each (P)		
ITEM No.		38				39					40		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 37

Location and Position	*Highway Fence*		*Brace Panels*		*Gates*								References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
27+045; 18.2 Lt			1										
27+045 - 27+116; 18.2 - 14.1 Lt	73												
27+088; 16.1 Lt					1								
27+116; 14.1 Lt			1										
Sub - Totals Carried Forward:	73		2		1								
	(P)		(P)		(P)								
TOTALS	73		2		1								
UNIT	m (P)		each (P)		each (P)								
ITEM No.	41		42		43								
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Highway Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 38

Location and Position	*Barrier for Tree Protection*		*Topsoil, Imported*		*Seed and Erosion Control Blanket Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*		*Rock Flow Check Dams*		References
Sub - Totals Brought Forward:													
HALDIMAND COUNTY													
HIGHWAY 3													
26+705 - 26+821; Lt			72		481								
26+705 - 26+790; Rt			50		331								
26+785; 11.5 Rt									1				
26+789 - 26+794; 13.1 Lt	5												
26+794 - 26+798; 11.7 - 13.7 Lt	7												
26+795 - 26+850; Rt			42		280								
26+815; 11.1 Lt									1				
26+829 - 26+850; Lt			16		105								
26+840; 12.7 Rt									1				
26+850 - 26+943; Lt			68		450								
26+860 - 26+948; Rt			92		615								
26+875; 12.5 Lt									1				
26+954 - 26+990; Rt			43		284								
26+955 - 26+981; Lt			7		45								
26+978; 17.0 Rt									1				
27+008 - 27+047; Rt			52		349								
27+013 - 27+085 Lt			72		480								
Sub - Totals Carried Forward:	12		514		3,420		0		5		0		
	(P)				(P)		(P)		(P)		(P)		
TOTALS													
UNIT	m (P)		m3		m2 (P)		m (P)		each (P)		each (P)		
ITEM No.	44		45		46		47		48		49		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Barrier for Tree Protection, Topsoil, Seed, Silt Fence, Check Dams

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 39

Location and Position	*Barrier for Tree Protection*		*Topsoil, Imported*		*Seed and Erosion Control Blanket Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*		*Rock Flow Check Dams*		References
Sub - Totals Brought Forward:	12		514		3,420		0		5		0		
27+016 - 27+050; 21.4 - 16.7 Lt							34						
27+022 - 27+045; 14.6 Rt	23												
27+050 - 27+085; 16.7 - 17.8 Lt							36						
27+038; 13.1 Lt									1				
27+061- 27+100; Rt			32		210								
27+079; 13.4 Lt									1				
27+090 - 27+100; Lt			11		73								
27+090 - 27+126; 17.8 - 15.1 Lt							37						
27+100 - 27+207; Rt			79		526								
27+100 - 27+280; Lt			131		870								
27+104; 12.3 Rt									1				
27+108; 13.6 Lt									1				
27+126 - 27+132; 15.1 - 15.7 Lt							8						
27+132; 13.1 Rt									1				
27+132 - 27+170; 14.4 - 13.2 Lt							40						
27+155; 12.6 Lt									1				
27+167; 11.5 Rt									1				
27+202; 10.4 Lt									1				
27+211 - 27+275; Rt			42		280								
Sub - Totals Carried Forward:	35		809		5,379		155		13		0		
	(P)				(P)		(P)		(P)		(P)		
TOTALS													
UNIT	m (P)		m3		m2 (P)		m (P)		each (P)		each (P)		
ITEM No.	44		45		46		47		48		49		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Barrier for Tree Protection, Topsoil, Seed, Silt Fence, Check Dams

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 40

Location and Position	*Barrier for Tree Protection*		*Topsoil, Imported*		*Seed and Erosion Control Blanket Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*		*Rock Flow Check Dams*		References
Sub - Totals Brought Forward:	35		809		5,379		155		13		0		
27+225 - 27+231; 12.3 - 13.1 Rt	8												
27+242; 9.9 Rt									1				
27+243 - 27+256; 10.9 - 13.1 Rt	17												
27+254; 9.8 Lt									1				
27+255 - 27+263; 11.5 - 13.1 Lt	9												
27+263 - 27+266; 11.1 - 11.5 Lt	4												
27+266 - 27+270; 10.3 - 11.3 Lt	6												
27+269; 10.0 Rt									1				
27+270 - 27+275; 11.3 Lt	5												
HALDIMAND ROAD 56													
9+900 - 9+950; Rt			33		217								
9+904 - 9+932; 14.7 Lt							30						
9+920 - 9+950; Lt			23		155								
9+924; 11.5 Rt									1				
9+928; 11.8 Lt											1		
9+936; 13.3 Rt									1				
9+936 - 9+979; 14.4 - 13.0 Lt							46						
9+938; 11.3 Lt											1		
9+950 - 9+984; Lt			20		130								
Sub - Totals Carried Forward:	84		885		5,881		231		18		2		
	(P)				(P)		(P)		(P)		(P)		
TOTALS													
UNIT	m (P)		m3		m2 (P)		m (P)		each (P)		each (P)		
ITEM No.	44		45		46		47		48		49		
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Barrier for Tree Protection, Topsoil, Seed, Silt Fence, Check Dams

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 41

Location and Position	*Barrier for Tree Protection*		*Topsoil, Imported*		*Seed and Erosion Control Blanket Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*		*Rock Flow Check Dams*		References
Sub - Totals Brought Forward:	84		885		5,881		231		18		2		
9+950 - 9+953; Rt			1		4								
9+966 - 9+988; Rt			27		179								
HALDIMAND ROAD 32													
10+015 - 10+038; 21.8 - 19.7 Lt	24												
10+020 - 10+050; Lt			45		300								
10+020 - 10+050; Rt			43		284								
10+029; 14.8 Rt									1				
10+050 - 10+073; Lt			19		127								
10+050 - 10+103; Rt			48		321								
10+077 - 10+103; Lt			15		101								
Sub - Totals Carried Forward:	108		1,083		7,197		231		19		2		
	(P)				(P)		(P)		(P)		(P)		
TOTALS	108		1,083		7,197		231		19		2		
UNIT	m (P)		m3		m2 (P)		m (P)		each (P)		each (P)		
ITEM No.	44		45		46		47		48		49		
Reference													

CHKD. _____

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MINISTRY OF TRANSPORTATION - ONTARIO

Barrier for Tree Protection, Topsoil, Seed, Silt Fence, Check Dams

QUANTITIES - STRUCTURE

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 42

Earth Excavation, Dewatering for Box Culverts	*Earth Excavation for Structure*		*Dewatering Structure Excavation*														References
LUMP SUM																	
HALDIMAND COUNTY																	
HIGHWAY 3																	
27+016 - 27+032; 14.8 Lt - 18.5 Rt	204		100 %														
27+130; 13.1 Lt - 11.9 Rt	216		100 %														
HALDIMAND ROAD 56																	
9+934; 11.9 Lt - 12.1 Rt	263		100 %														
HALDIMAND ROAD 32																	
10+020 - 10+033; 14.6 Lt - 14.1 Rt	103		100 %														
	786		100 %														
	(P)																
TOTALS	786		100 %														
UNIT	m3 (P)		lump sum														
ITEM No.	50		51														

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Earth Excavation, Dewatering for Box Culverts

QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES

W.P. No. 3056-10-00

Contract No. 2019-3006

Location	Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations: Top of Cover	Elevations:	Elevations: Drain Invert	Elevations:	*Electrical Handholes [394 x 635 x 457 mm], [OPSD 2113.01]*	*Electrical Handholes [660 x 956 x 457 mm], [OPSD 2113.01]*	*#6 AWG, Bare Ground Wires*	*Ground Electrodes [Rods]*							
Sub - Totals Brought Forward:																			
HWY 3 & CR 56																			
	HH1	26+982.5	0.5EPS							1	1	1							
	HH2	26+987	0.5EPS							1	1	1							
	HH3	26+992.5	0.5EPS						1										
	HH4	27+015.5	0.5EPS							1	1	1							
	HH5	27+015	0.5EPS							1	1	1							
	HH6	27+008	0.5EPS						1										
	HH7	26+989	0.5EPS							1	1	1							
	HH8	26+865	2*						1										
	HH9	27+140	0.5EPS						1										
Sub - Totals Carried Forward:									4	5	5	5							
									4 (P)	5 (P)	(P)	(P)							
TOTALS										9	25	25							
UNIT									each (P)	each (P)	m (P)	each (P)							
ITEM No.										52	63	65							

Remarks: 2. Brought Forward to Power Supply Equipment

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

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MINISTRY OF TRANSPORTATION - ONTARIO

Hand Holes

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 3056-10-00

Contract No. 2019-3006

Location	From - To OR Station	Distance (m)	UPC No.	*Rigid Ducts, Concrete Encased*	*50 mm*	*1 X 100 mm*	*Rigid Ducts, Direct Buried*	*50 mm*	*75 mm*	*100 mm*	*Cable Brick*	*#2 AWG, Low Voltage Cables, in Ducts*	*#6 AWG, Low Voltage Cables, in Ducts*	*#14 AWG, 2-Cond., Extra Low Voltage Cables, in Ducts*	*#14 AWG, 19-Cond Traffic Signal Cables, in Ducts*	*#6 AWG, Insulated Ground Wires*
Sub - Totals Brought Forward:																
HWY 3 & CR 56																
	P9-HH1	9					9	9					27			9
	P1 - HH1	7					7		14						14	
	HH1 - TC1	11					11			22	11			33	11	
	TC1 - HH7	4					4			8	4			4	4	
	TC1 - P9	11					11	11			11		22			11
	P9 - EHP1	20					20	20			20	60				
	HH1-HH7	10					10	10								10
	HH1 - HH2	27	2	27		81							81	54	27	27
	HH2 - P2	10					10		30				60		20	20
	HH2 - HH3	10					10	10	20					20	20	10
	HH3 - P3	2					2		4						4	2
	HH2 - HH4	29	3	29		87							87	29	29	29
	HH4 - P4	11					11		22						22	11
	HH4 - P5	11					10	10	30				30	10	20	10
	P5 - HH9	115					115	115						115		
	HH4 - HH5	28	4	28		84									28	28
	HH5 - P6	10					10		20						20	10
	HH5 - HH6	9					9	9	18					9	18	9
	HH6 - P7	1					1		2						2	1
	HH5 - HH7	27	5	27		81								27	27	27
	P1-REF1	21					21	21						21		
	REF1 - REF2	9	1	8	8									8		
	REF2 - HH8	83					83	83						83		
Sub - Totals Carried Forward:				119	8	333	354	298	160	30	46	60	307	413	266	214
				(P)			(P)					(P)	(P)	(P)	(P)	(P)
TOTALS				119			354						367	413	266	[1] 214
UNIT				m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)
ITEM No.				53			54						56	58	59	63

Remarks: *1.* Brought Forward to Power Supply Equipment

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MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts & Associated Wiring

QUANTITIES - POLE ASSEMBLIES AND FOOTINGS

W.P. No. 3056-10-00

Contract No. 2019-3006

Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	*7.0 m, Sectional Steel Poles, Base Mounted*	*10.5 m, Sectional Steel Poles, Base Mounted*	*7.0m, Heavy Class Steel Poles, Base Mounted*	*10.5m, Heavy Class Steel Poles, Base Mounted*	*Concrete Footings In Earth [OPSD 2200.01]*	*Concrete Footings In Earth [MTOD 2200.050]*	*137 W LED Luminaire 120 V LED Luminaire*	*2.4 m Al. Tapered Elliptical Bracket*	*#12 AWG Riser Wires 3 Wires/Pole*				
Sub - Totals Brought Forward:																
HWY 3 & CR56																
	P1	26+976	0.5EPS	1				1								
	P2	26+976.5	0.5EPS						1	1	1	18				
	P3	26+992.5	0.5EPS	1				1								
	P4	27+010	0.5EPS			1			1							
	P5	27+024	0.5EPS		1			1		1	1	18				
	P6	27+024	0.5EPS			1			1							
	P7	27+009.5	0.5EPS	1				1								
	P8	26+990	0.5EPS			1			1							
	P9	26+976	0.5EPS	1				1								
Sub - Totals Carried Forward:				4	1	3	0	5	4	2	2	36				
				4 (P)	1 (P)	3 (P)	0 (P)	5 (P)	4 (P)	2 (P)						
TOTALS					5		3		9	2						
UNIT				each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	m (P)				
ITEM No.					70		71		73	75						

Remarks:

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

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MINISTRY OF TRANSPORTATION - ONTARIO

Pole Assemblies and Footings

QUANTITIES - POWER SUPPLY EQUIPMENT, CONCRETE PADS, HIGH VOLTAGE CABLES TERMINATIONS, GROUNDINGS & ROCK EXCAVATIONS

W.P. No. 3056-10-00
Contract No. 2019-3006

Location	Location Code	Station	Offset (m) to CL of Structure/Equip't (Note 1)	Metering Provisions Yes or No	*Supply Control Cabinet Assemblies, Type 1, 1 Ph, 120/240V OPSD 2440.010*	*#2/0 AWG, Bare Ground Wires*	*#6 AWG, Bare Ground Wires*	*#6 AWG, Insulated Ground Wires*	*Ground Electrodes [Rods]*								
Sub - Totals Brought Forward:																	
BF: Rigid Ducts & Associated Wiring								214									
BF: Hand Holes							5		5								
HWY 3 & CR 56																	
	P9	26+976	17	YES	1	16			4								
Sub - Totals Carried Forward:					1	16	5	214	9								
						16	5	214									
					(P)	(P)	(P)	(P)	(P)								
TOTALS					1		235		9								
UNIT					each (P)	m (P)	m (P)	m (P)	each (P)								
ITEM No.					68		63		65								

Remarks:

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

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QUANTITIES - TRAFFIC SIGNAL CONTROLLER, CONTROLLER COMPONENTS AND EXTERNAL DETECTION DEVICES

W.P. No. 3056-10-00

Contract No. 2019-3006

Location	Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	*Traffic Signal Controllers [MTOD 2514.0110]*	*Concrete Pads [MTOD 2514.0210]*	*Detector Loops Simple Loop in Pavement*	*Detector Loops Duplex Loop in Pavement*	*Input File Connection Terminal*								
Sub - Totals Brought Forward:																	
HWY 3 & CR 56																	
SW Quadrant	TC 100				1	1											
EB Lane	LD1	1.8x1.8	4	118			1										
SB Lane	LD2	12x2.3	2-4-2	338				1									
	LD3	9.6x2.3	2-4-2	275				1									
WB Lane	LD4	1.8x1.8	4	118			1										
NB Lane	LD5	12x2.3	2-4-2	338				1									
	LD6	9.6x2.3	2-4-2	275				1									
Sub - Totals Carried Forward:					1	1	2	4	0								
							2	4									
					(P)	(P)	(P)	(P)									
TOTALS					1	1		6									
UNIT					each (P)	each (P)	each (P)	each (P)	each (P)								
ITEM No.					78	74		79									

Remarks:

CHKD. _____

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MINISTRY OF TRANSPORTATION - ONTARIO

Traffic Signal Controllers & Controller Components

Page 1 of 1

QUANTITIES - TRAFFIC SIGNAL EQUIPMENT

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 48

Location	Pole No.	Signal Head Facing Direction	*3.6 m, Single Member Arms and Signal Hangers*	*4.6 m, Single Member Arms and Signal Hangers*	*6.7 m, Single Member Arms and Signal Hangers*	*7.6 m, Single Member Arms and Signal Hangers*	*Highway Type Signal Heads*	*Riser Wires #14 AWG, 7/C*							
Sub - Totals Brought Forward:															
HWY 3 & CR 56															
	P1	E	1				1	9							
	P2	E				1	1	13							
	P3	S	1				1	9							
	P4	S				1	1	13							
	P5	W	1				1	9							
	P6	W			1		1	12							
	P7	N		1			1	10							
	P8	N				1	1	13							
Sub - Totals Carried Forward:			3	1	1	3	8	88							
			3 (P)	1 (P)	1 (P)	3 (P)	8 (P)								
TOTALS				8			8								
UNIT			each (P)	each (P)	each (P)	each (P)	each (P)	m (P)							
ITEM No.				76			77								

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Traffic Signal Equipment

Page 1 of 1

QUANTITIES - REMOVAL OF ELECTRICAL EQUIPMENT

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 49

Location	Removal Number	Station	*Removal of Electrical Equipment [Aerial Messenger Cable]*	*Removal of Electrical Equipment [Aerial Wiring]*	*Removal of Electrical Equipment [Power Supply]*	*Removal of Electrical Equipment [Flasher Mechanism]*	*Removal of Electrical Equipment [Pole,Bracket,Luminaire,Guy]*	*Removal of Electrical Equipment [Flasher Beacons]*							
Sub - Totals Brought Forward:															
Hwy 3 & CR 56															
	R1	27+014			100 %	100 %	100 %								
	R2	27+003													
	R3	26+993					100 %								
	R1-3		100 %	100 %				100 %							
Sub - Totals Carried Forward:			100 %	100 %	100 %	100 %	100 %	100 %							
			100 %	100 %	100 %	100 %	100 %	100 %							
UNIT			L U M P S U M												
ITEM No.				67											

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal Of Electrical Equipment

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 3056-10-00

Contract No. 2019-3006

SHEET 50

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	*Rigid Ducts, Direct Buried (Temporary)*	*50 mm*	*Cable Brick*	*#10 AWG, Low Voltage Cables in Ducts [Temporary]*	*#10 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]*	*3-Cond. Traffic Signal Cables Aerial on Messenger Cable [Temporary]*	*9 mm, Grade 160 Steel Messenger Cables Aerial [Temporary]*	*#10 AWG, Insulated, Ground Wire [Temporary]*	*#6 AWG, Bare, Ground Wire [Temporary]*	*12.5 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]*	*Guy Anchors (Temporary)*	*Ground Electrodes [Temporary] [Rods]*	
Sub - Totals Brought Forward:																		
HWY 3 & CR 56																		
TP1	TP1	18		26+987										1	1	1	1	
TP1 - REF1					8					24	8	8	8					
P9 - TP1					12	12	12		60				12					
Sub - Totals Carried Forward:						12	12	0	60	24	8	8	20	1	1	1	1	
						(P)			(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS						12			60	24	8	8		21	1	1	1	
UNIT						m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	each (P)	
ITEM No.						55			57	60	61	62		64	69	72	66	

Remarks:

Note: 1 When shown without *, offset is from centre or control line of roadway.
When shown with *, offset is from edge of travelled pavement (EP).

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MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Installation