QUANTITY SHEETS

CONTRACT NO. 2018-3010

BOOK 1 OF 1

Ministry Of Transportation

Ontario

INDEX

W.P. No. 3062-14-00

Contract No. 2018-3010

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 1

Location and Position	*Clearing*		*Grubbing*		*Grubbing (each)*								References
Sub - Totals Brought Forward:													
HWY 3													
13+026; 9.5m RT					1								
14+258 - 14+288; 5.9m LT	263												
14+388 - 14+417; 6.0m RT	704												
14+413; 9.5m RT					2								
14+413 - 14+434; 6.0m LT	183												
14+428 - 14+464; 5.8m RT	312												
14+432; 16.8m RT					1								
14+635 - 14+655; 5.0m LT	183												
15+115 - 15+147; 7.0m LT	255												
15+425 - 15+493; 6.7m RT	546												
15+508 - 15+604; 6.8m RT	768												
16+050 - 16+072 LT; Various Offsets			176										
16+206 - 16+238; 6.9m LT	255												
16+366 - 16+417; 6.8m LT	403												
16+560; 9.0m RT					1								
16+565 - 16+652; 6.7m RT	693												
16+713 - 16+816; 7.0m RT	825												
16+926 - 16+991; 6.8m LT	527												
Sub - Totals Carried Forward:	5,917		176		5								
	(P)		(P)		(P)								
TOTALS	5,917		176		5								
UNIT	m2 (P)		m2 (P)		each (P)								
ITEM No.	1		2		3								
Reference													

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QUANTITIES - GRADING

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 2

Description	*Earth Excavation (Grading)*	Reference			Reference												
Sub - Totals Brought Forward:																	
12+760 - 13+180 RT	811																
12+770 - 13+100 LT	330																
13+490 - 13+630 LT	140																
14+990 - 15+088 LT	227																
17+110 - 17+230 LT	180																
Sub - Totals Carried Forward:	1,688 (P)																
TOTALS	1,688																
UNIT	m3 (P)																
ITEM No.	4																

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

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

Reference

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MINISTRY OF TRANSPORTATION - ONTARIO

Grading

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
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SHEET 3

Location and Position	*Earth Ditch Cleanout*													References
Sub - Totals Brought Forward:														
HWY 3														
12+420 - 12+550 RT	130													
13+180 - 14+690 RT	1,510													
15+310 - 16+020 RT	710													
15+330 - 15+570 LT	240													
15+840 - 15+960 LT	120													
16+150 - 16+300 RT	150													
16+170 - 16+630 LT	460													
16+410 - 17+230 RT	820													
Sub - Totals Carried Forward:	4,140													
	(P)													
TOTALS	4,140													
UNIT	m (P)													
ITEM No.	5													
Reference														

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 4

Description	*Granular Sealing (m2) [Hand Sprayed] [Sealant Type III]*		*Tack Coat [Lower Binder Course]*	*Tack Coat [Upper Binder Course]*	*Tack Coat [Milled Surface]*	*Asphalt Spillways*											References
Sub - Totals Brought Forward:																	
HWY 3																	
11+815 - 11+040			239	342	412												
11+840 - 11+852			175	181													
11+852 - 12+400			5,494	6,042													
12+400 - 12+770			2,775	3,145													
12+770 - 13+230			4,501	4,961													
13+230 - 13+382			1,139	1,291													
13+382 - 13+919			5,428	5,965													
13+919 - 14+150			1,735	1,966													
14+150 - 14+500			2,625	2,975													
14+500 - 14+850			2,625	2,975													
14+850 - 15+200			2,625	2,975													
15+200 - 15+550			2,625	2,975													
15+550 - 15+900			2,625	2,975													
15+952 - 16+172 RT	198																
15+900 - 16+250			2,625	2,975													
15+952 - 16+172 LT	198																
16+250 - 16+600			2,625	2,975													
16+600 - 16+986			2,895	3,281													
Sub - Totals Carried Forward:	396		42,756	47,999	412	0											
	(P)		(P)	(P)	(P)	(P)											
TOTALS																	
UNIT	m2 (P)		m2 (P)	m2 (P)	m2 (P)	m (P)											
ITEM No.	6			7		8											
Reference																	

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 5

Description	*Granular Sealing (m2) [Hand Sprayed] [Sealant Type III]*		*Tack Coat [Lower Binder Course]*	*Tack Coat [Upper Binder Course]*	*Tack Coat [Milled Surface]*	*Asphalt Spillways*										References
Sub - Totals Brought Forward:	396		42,756	47,999	412	0										
16+986 - 17+200			2,069	2,283												
17+200 - 17+505			3,713	3,713	3,713											
17+505 - 17+530			164	195	179											
CULVER ROAD																
9+949 - 9+994				429												
BLUE LINE ROAD																
9+949 - 9+994				713	689											
10+006 - 10+050				683	665											
COCKSHUTT ROAD																
9+958 - 9+995				633	619											
9+965 LT						5										
10+005 - 10+042				586	578											
COMMERCIAL ENTRANCES																
12+246 LT				284												
12+395 LT				283												
13+947 RT				126												
17+165 LT				97												
17+205 LT				128												
17+532 LT				60												
Sub - Totals Carried Forward:	396		48,702	58,212	6,855	5										
	(P)		48,702 (P)	58,212 (P)	6,855 (P)	(P)										
TOTALS	396			113,769		5										
UNIT	m2 (P)		m2 (P)	m2 (P)	m2 (P)	m (P)										
ITEM No.	6			7		8										
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 6

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:																
HWY 3																
11+815 - 11+910 LT									51							
11+815 - 11+840	48	35				437										
11+815 - 11+840 FPS					36											
11+839 - 11+910 RT									38							
11+840 - 11+852	26	24				172										
11+840 - 11+852 FPS					52											
11+852 - 12+400	889	808				6,054										
11+852 - 12+400 FPS					2,119											
11+910 - 12+070 LT (Taper widening)								257	929							
12+400 - 12+770	463	408				3,145										
12+400 - 12+770 FPS					1,452											
12+770 - 13+230 (Widening at Culver Rd)	730	662				4,962		1,488	4,944							
12+770 - 13+126 FPS					1,424											
13+230 - 13+382	190	168				1,291										
13+230 - 13+630									657							
13+382 - 13+919	868	798				5,902										
13+650 - 14+000									657							
13+919 - 14+150	282	256				1,916										
Sub - Totals Carried Forward:	3,496	3,159	0	0	5,083	23,879		1,745	7,276	0	0	0	0			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 7

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	3,496	3,159	0	0	5,083	23,879		1,745	7,276	0	0	0	0			
14+000 - 14+350									657							
14+150 - 14+500	438	386				2,975										
14+350 - 14+700									657							
14+500 - 14+850	438	386				2,975										
14+700 - 15+050									657							
14+850 - 15+200	438	386				2,975										
15+050 - 15+400									657							
15+154 CL Culvert								120			424	12	50			
15+200 - 15+550	438	386				2,975										
15+388 CL Culvert								139			466	12	51			
15+400 - 15+750									657							
15+550 - 15+900	438	386				2,975										
15+750 - 15+927									291							
15+857 CL Culvert								137			572	12	52			
15+900 - 16+250	438	386				2,975										
15+927 - 16+198 FPS					1,084				144							
16+069 CL Culvert								213			5,730	44	187			
16+198 - 16+550									578							
16+250 - 16+600	438	386				2,975										
Sub - Totals Carried Forward:	6,562	5,861	0	0	6,167	44,704		2,354	11,574	0	7,192	80	340			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 8

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	6,562	5,861	0	0	6,167	44,704		2,354	11,574	0	7,192	80	340			
16+550 - 16+900									578							
16+600 - 16+950	438	386				2,975										
16+707 CL Culvert								153			779	12	52			
16+900 - 17+240									558							
16+986 - 17+200	336	305				2,283										
17+200 - 17+530	577	547				3,923										
17+365 - 17+530									271							
SIDEROADS																
CULVER ROAD																
9+949 - 9+994	49		435					14								
9+988 CSP Culvert Replacemt								154								
BLUE LINE ROAD																
9+949 - 9+994	86		713					4	49							
9+983 CSP Culvert Replacement								130								
10+005 - 10+051	88		712					3	67							
10+013 CSP Culvert Replacement								164								
COCKSHUTT ROAD																
9+958 - 9+995		79	608	641												
10+005 - 10+042		74	603													
Sub - Totals Carried Forward:	8,136	7,252	3,071	641	6,167	53,885		2,976	13,097	0	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 9

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	8,136	7,252	3,071	641	6,167	53,885		2,976	13,097	0	7,971	92	392			
SHOULDER WIDENING AT GUIDERAIL TERMINALS																
15+984 LT									36							
15+985 RT									36							
16+151 LT									36							
16+152 RT									36							
COMMERCIAL ENTRANCES																
12+246 LT		25	203													
12+395 LT		35	284													
12+653 LT		10	80													
13+947 RT		18	141													
17+164		12	97													
17+206 LT		16	130													
17+352 LT		8	60													
PRIVATE ENTRANCES																
11+894 RT										6						
11+942 RT				35												
11+964 RT				44												
Sub - Totals Carried Forward:	8,136	7,376	4,066	720	6,167	53,885		2,976	13,241	6	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 10

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	8,136	7,376	4,066	720	6,167	53,885		2,976	13,241	6	7,971	92	392			
11+975 RT										5						
12+012 RT				40												
12+021 RT				27												
12+104 RT										5						
12+140 RT				58												
12+195 RT				100												
12+222 RT				55												
12+2291 RT				60												
12+333 RT				59												
12+396 RT				39												
12+456 LT				62												
12+484 LT										5						
12+510 LT				64												
12+721 RT										5						
12+767 LT				43												
12+810 LT				48												
12+824 RT				60												
12+871 LT				52												
12+895 RT										5						
Sub - Totals Carried Forward:	8,136	7,376	4,066	1,487	6,167	53,885		2,976	13,241	31	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 11

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	8,136	7,376	4,066	1,487	6,167	53,885		2,976	13,241	31	7,971	92	392			
12+920 LT				63												
12+955 RT				45												
12+966 LT										5						
12+996 RT				45												
13+028 RT										5						
13+113 RT										5						
14+009 RT										6						
14+090 RT										5						
14+152 RT										5						
14+211 LT										55						
14+241 LT										64						
14+252 RT				66												
14+288 RT										7						
14+423 RT				65												
14+694 RT										5						
14+712 RT										5						
14+838 LT										6						
15+060 LT										5						
15+209 LT										5						
Sub - Totals Carried Forward:	8,136	7,376	4,066	1,771	6,167	53,885		2,976	13,241	214	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 12

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	8,136	7,376	4,066	1,771	6,167	53,885		2,976	13,241	214	7,971	92	392			
15+233 LT										5						
15+247 LT										5						
15+265 RT										5						
15+463 LT				61												
15+611 RT										5						
15+632 LT				49												
15+665 LT				50												
15+973 RT										5						
15+974 LT										5						
16+160 LT										5						
16+481 LT				65												
16+501 LT										6						
16+554 RT										5						
16+575 LT				73												
16+633 LT										5						
16+645 LT										5						
16+657 RT										6						
16+692 RT										6						
16+768 LT										6						
Sub - Totals Carried Forward:	8,136	7,376	4,066	2,069	6,167	53,885		2,976	13,241	288	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS																
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 13

Description	*Superpave 19.0 [Upper Binder]*	*Superpave 19.0 [Lower Binder]*	*Superpave 12.5 - 40 mm Lift Thickness Surface Course*	*Superpave 12.5 - 50 mm Lift Thickness Surface Course*	*Superpave 12.5 - 60 mm Lift Thickness Surface Course*	*Superpave 12.5FC 1 - 40 mm Lift Thickness Surface Course*		*Granular A [Roadbase]*	*Granular A [Shoulders]*	*Granular A [Entrances]*	*Granular A [Backfill]*	*Granular A [Levelling Course]*	*Granular A [Bedding]*			References
Sub - Totals Brought Forward:	8,136	7,376	4,066	2,069	6,167	53,885		2,976	13,241	288	7,971	92	392			
16+793 LT										6						
16+811 LT										6						
16+856 LT										8						
16+869 RT				52												
16+919 LT										7						
17+040 LT										9						
17+113 LT				59						7						
17+116 RT										7						
17+140 LT										6						
17+337 RT				52												
17+429 RT										4						
MEDIAN ISLANDS																
9+986 - 9+983 LT (Cockshutt Rd)					32											
Sub - Totals Carried Forward:	8,136	7,376	4,066	2,232	6,199	53,885		2,976	13,241	348	7,971	92	392			
	8,136	7,376						2,976	13,241	348	7,971	92	392			
			(P)	(P)	(P)	(P)										
TOTALS		15,512	4,066	2,232	6,199	53,885			25,020							
UNIT	t	t	m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t	t	t	t			
ITEM No.		9	10	11	12	13			14							
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 14

Location and Position	*In-Place Full Depth Reclam. of Bituminous Pavement & Underlying Granular [300 mm]*													References
Sub - Totals Brought Forward:														
HWY 3														
11+840 - 11+852	152													
11+852 - 12+400	5,110													
12+400 - 12+750	2,497													
12+750 - 13+100	2,493													
13+100 - 13+450	2,543													
13+450 - 13+800	3,682													
13+800 - 14+150	2,623													
14+150 - 14+500	2,514													
14+500 - 14+850	2,529													
14+850 - 15+200	2,531													
15+200 - 15+550	2,518													
15+550 - 15+900	2,515													
15+900 - 16+250	2,533													
16+250 - 16+600	2,524													
16+600 - 16+950	2,537													
16+950 - 17+200	2,272													
Sub - Totals Carried Forward:	41,573													
	(P)													
TOTALS	41,573													
UNIT	m2 (P)													
ITEM No.	15													
Reference														

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Full Depth Reclamation

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 15

Location and Position	*Concrete Curb and Gutter [OPSD 0600.0600] [Circular]*	*Concrete Curb and Gutter [OPSD 0600.0600] [Straight]*	*Concrete Curb and Gutter [OPSD 0600.0400] [Straight]*		*Concrete Gutter Outlets [OPSD 0605.0300]*								References
Sub - Totals Brought Forward:													
9+968 LT (Blueline Rd)					1								
9+977 RT (Blueline Rd)					1								
10+040 LT (Blueline Rd)					1								
10+048 RT (Blueline Rd)					1								
13+045 - 13+059 LT	23												
13+602 - 13+635 LT	32	10											
13+621 - 13+640 RT	28	16											
13+647 - 13+666 LT	26	10											
13+650 - 13+681 RT	26	16											
17+300 - 17+315 RT			15										
9+967 - 9+983 LT (Cockshutt Rd Entrance Closure)	6	27											
Sub - Totals Carried Forward:	141	79	15		4								
	141 (P)	79 (P)	15 (P)		(P)								
TOTALS		235			4								
UNIT	m (P)	m (P)	m (P)		each (P)								
ITEM No.		16			17								
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - PIPE CULVERTS

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 16

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 400+50 S 111221 400+50 C 000221*	*500 mm Pipe Culvert 500+50 S 111221 500+50 C 000221*	*600 mm Pipe Culvert 600+50 S 111221 600+50 C 000221*	*800 mm Pipe Culvert 800+50 S 111221 800+50 C 000221*	*900 mm Pipe Culvert 900+50 S 111221 900+50 C 000221*	*1200 mm Pipe Culvert 1200+50 S 111221 1200+50 C 000221*	References
		Sub - Totals Brought Forward:																			
	HWY 3	TWP OF TOWNSEND																			
1	11+894	Entrance Culvert RT					1.12	A	A	A			228.29	228.26			9				
2	11+964	Entrance Culvert RT					1.02	A	A	A			228.42	228.37		46					
3	12+012	Entrance Culvert RT					1.25	A	A	A			228.53	228.50			9				
4	12+028	Entrance Culvert RT					0.85	A	A	A			228.62	228.54			21				
5	12+104	Entrance Culvert RT					0.82	A	A	A			229.10	229.02		13					
6	12+130	Entrance Culvert RT; 450mm Culvert					0.50	A	A	A			229.36	229.32	3						
7	12+140	Entrance Culvert RT					0.88	A	A	A			229.52	229.40		10					
8	12+195	Entrance Culvert RT					0.50	A	A	A			230.80	229.84		59					
9	12+246	Entrance Culvert LT					0.85	A	A	A			230.89	230.70		28					
10	12+291	Entrance Culvert RT					0.50	A	A	A			231.45	231.25		9					
11	12+282	Entrance Culvert RT; 450mm Culvert						A	A	A			231.15	231.11	3						
12	12+333	Entrance Culvert RT					0.60	A	A	A			232.37	232.15		9					
13	12+396	Entrance Culvert RT						A	A	A			233.78	233.71		12					
		Sub - Totals Carried Forward:													6	186	39	0	0	0	
															(P)	(P)	(P)	(P)	(P)	(P)	
		TOTALS																			
		UNIT													m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	
		ITEM No.													18	19	20	21	22	23	

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. _____
APPR. _____
DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts

QUANTITIES - PIPE CULVERTS

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 17

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 400+50 S 111221 400+50 C 000221*	*500 mm Pipe Culvert 500+50 S 111221 500+50 C 000221*	*600 mm Pipe Culvert 600+50 S 111221 600+50 C 000221*	*800 mm Pipe Culvert 800+50 S 111221 800+50 C 000221*	*900 mm Pipe Culvert 900+50 S 111221 900+50 C 000221*	*1200 mm Pipe Culvert 1200+50 S 111221 1200+50 C 000221*	References
		Sub - Totals Brought Forward:													6	186	39	0	0	0	
14	12+413	Entrance Culvert RT; 450mm Culvert						A	A	A			233.83	233.81	3						
15	12+653	Entrance Culvert LT					0.70	A	A	A			235.09	234.80		12					
16	12+721	Entrance Culvert RT					0.70	A	A	A			236.13	235.85		10					
17	12+768	Entrance Culvert LT					0.30	A	A	A			237.00	236.94	6						
18	12+870	Entrance Culvert LT						A	A	A			236.93	236.82		12					
19	12+882	Entrance Culvert RT					0.40	A	A	A			236.64	236.59		3					
20	12+895	Entrance Culvert RT					0.50	A	A	A			236.50	236.37	10						
21	12+919	Entrance Culvert LT					0.30	A	A	A			236.39	236.23	9						
22	12+955	Entrance Culvert RT						A	A	A			235.58	235.37		12					
23	12+966	Entrance Culvert LT						A	A	A			235.76	235.54		12					
24	12+996	Entrance Culvert RT						A	A	A			235.03	234.78		12					
25	13+029	Entrance Culvert RT; 450mm Culvert					0.50	A	A	A			233.94	233.76	9						
26	13+040	Culver Road North					0.30	A	A	A		F	234.17	233.56			19				
		Sub - Totals Carried Forward:													43	259	58	0	0	0	
															(P)	(P)	(P)	(P)	(P)	(P)	
		TOTALS																			
		UNIT													m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	
		ITEM No.													18	19	20	21	22	23	

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. _____
APPR. _____
DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts

QUANTITIES - PIPE CULVERTS

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 18

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 400+50 S 111221 400+50 C 000221	500 mm Pipe Culvert 500+50 S 111221 500+50 C 000221	600 mm Pipe Culvert 600+50 S 111221 600+50 C 000221	800 mm Pipe Culvert 800+50 S 111221 800+50 C 000221	900 mm Pipe Culvert 900+50 S 111221 900+50 C 000221	1200 mm Pipe Culvert 1200+50 S 111221 1200+50 C 000221	References
										Sub - Totals Brought Forward:				43	259	58	0	0	0	
27	13+068	Entrance Culvert LT					0.50	A	A	A			233.06	232.41		9					
28	13+113	Entrance Culvert RT					0.55	A	A	A			231.20	231.09	9						
29	13+643	Blue Line Road North; 13+628.8 o/s 17.80 LT to 16+656.2 o/s 17.70 LT					0.73	A	A	A		F	223.51	223.44						28	
30	13+644	Blue Line Road South; 13+626.7 o/s 13.3 RT to 16+663.7 o/s 13.3 RT					0.75	A	A	A		F	223.32	223.22				37			
31	13+947	Entrance Culvert RT					0.40	A	A	A			221.28	221.18				17			
32	14+009	Entrance Culvert RT					0.40	A	A	A			220.89	220.84				12			
33	14+090	Entrance Culvert RT					0.30	A	A	A			220.56	220.49			15				
34	14+151	Entrance Culvert RT					0.40	A	A	A			220.30	220.23			14				
35	14+211	Entrance Culvert LT					0.60	A	A	A			219.73	219.64					14		
36	14+250	Entrance Culvert LT					0.60	A	A	A			219.55	219.42					23		
37	14+252	Entrance Culvert RT					0.60	A	A	A			219.57	219.51		10					
38	14+288	Entrance Culvert RT					0.60	A	A	A			219.36	219.29		11					
39	14+423	Entrance Culvert RT					0.70	A	A	A			218.41	218.33			14				
										Sub - Totals Carried Forward:				52	290	101	66	37	28	
															(P)	(P)	(P)	(P)	(P)	(P)	
														TOTALS							
														UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	
														ITEM No.	18	19	20	21	22	23	

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. _____
APPR. _____
DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts

QUANTITIES - PIPE CULVERTS

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 19

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 400+50 S 111221 400+50 C 000221*	*500 mm Pipe Culvert 500+50 S 111221 500+50 C 000221*	*600 mm Pipe Culvert 600+50 S 111221 600+50 C 000221*	*800 mm Pipe Culvert 800+50 S 111221 800+50 C 000221*	*900 mm Pipe Culvert 900+50 S 111221 900+50 C 000221*	*1200 mm Pipe Culvert 1200+50 S 111221 1200+50 C 000221*	References
		Sub - Totals Brought Forward:													52	290	101	66	37	28	
40	14+694	Entrance Culvert RT					0.30	A	A	A			216.68	216.62		9					
41	14+712	Entrance Culvert RT					0.60	A	A	A			216.59	216.50			15				
42	14+838	Entrance Culvert LT					0.60	A	A	A			216.63	216.62					8		
43	15+060	Entrance Culvert LT						A	A	A			216.27	216.24					10		
44	15+209	Entrance Culvert LT					0.90	A	A	A			217.06	217.00	9						
45	15+265	Entrance Culvert RT						A	A	A			215.73	215.72			13				
46	15+665	Entrance Culvert LT						A	A	A			216.75	216.66	9						
47	16+481	Entrance Culvert LT					0.70	A	A	A			215.30	215.27		15					
48	16+501	Entrance Culvert LT; 450mm Culvert					0.70	A	A	A			215.34	215.32	9						
49	16+554	Entrance Culvert RT; 450mm Culvert					0.30	A	A	A			216.40	216.35	9						
50	16+575	Entrance Culvert LT; 450mm Culvert					0.60	A	A	A			215.75	215.68	9						
51	16+645	Entrance Culvert LT; 450mm Culvert					0.60	A	A	A			215.93	215.67	9						
52	16+657	Entrance Culvert RT; 450mm Culvert					0.60	A	A	A			215.79	215.72	9						
53	16+692	Entrance Culvert RT; 450mm Culvert					0.60	A	A	A			215.48	215.22	7						
		Sub - Totals Carried Forward:													122	314	129	66	55	28	
															(P)	(P)	(P)	(P)	(P)	(P)	
		TOTALS																			
		UNIT													m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	
		ITEM No.													18	19	20	21	22	23	

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. _____
APPR. _____
DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts

QUANTITIES - PIPE CULVERTS

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 20

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 400+50 S 111221 400+50 C 000221*	*500 mm Pipe Culvert 500+50 S 111221 500+50 C 000221*	*600 mm Pipe Culvert 600+50 S 111221 600+50 C 000221*	*800 mm Pipe Culvert 800+50 S 111221 800+50 C 000221*	*900 mm Pipe Culvert 900+50 S 111221 900+50 C 000221*	*1200 mm Pipe Culvert 1200+50 S 111221 1200+50 C 000221*	References
		Sub - Totals Brought Forward:													122	314	129	66	55	28	
54	16+701	Entrance Culvert LT					0.80	A	A	A			215.21	214.80		11					
55	16+768	Entrance Culvert LT					0.60	A	A	A			215.66	215.59			8				
56	16+793	Entrance Culvert LT					0.60	A	A	A			215.85	215.78			9				
57	16+811	Entrance Culvert LT; 450mm Culvert					0.70	A	A	A			216.00	215.93	9						
58	16+856	Entrance Culvert LT					0.60	A	A	A			216.19	216.15		9					
59	16+869	Entrance Culvert RT					0.90	A	A	A			215.92	215.90		9					
60	16+919	Entrance Culvert LT						A	A	A			216.44	216.42		7					
61	16+995	Entrance Culvert LT					0.30	A	A	A			216.60	216.59		6					
62	17+040	Entrance Culvert LT					0.40	A	A	A			216.73	216.69		14					
63	17+164	Entrance Culvert LT					0.40	A	A	A			216.55	216.41		18					
64	17+206	Entrance Culvert LT					0.40	A	A	A			216.21	216.07		18					
65	17+429	Entrance Culvert RT					0.60	A	A	A			214.06	214.03	8						
66	13+750	Entrance Culvert RT					0.93	A	A	A			222.985	222.818		15					
		Sub - Totals Carried Forward:													139	422	146	66	55	28	

		(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS		139	422	146	66	55	28	
UNIT		m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	
ITEM No.		18	19	20	21	22	23	

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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MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Culverts

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 21

Location and Position	*Clean Out Catch Basins, Maintenance Holes and Ditch Inlets*													References
Sub - Totals Brought Forward:														
HWY 3														
12+185; 12.4m RT	1													
12+360; 11.5m LT	1													
12+382; 8.0m LT	1													
16+166; 9.5m LT	1													
16+186; 8.5m LT	1													
17+260; 11.0m LT	1													
17+310; 15.0m LT	1													
Sub - Totals Carried Forward:	7													
	(P)													
TOTALS	7													
UNIT	each (P)													
ITEM No.	24													
Reference														

CHKD. _____
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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 22

Location and Position	*Removal of Asphalt Pavement [Full Depth], [PPS]*	*Removal of Asphalt Pavement [Full Depth], [Sideroad]*	*Removal of Asphalt Pavement [Full Depth], [Entrance]*	*Removal of Asphalt Pavement, Partial Depth [50 mm]*	*Removal of Asphalt Pavement, Partial Depth [60 mm]*	*Removal of Asphalt Pavement, Partial Depth [90 mm]*	*Removal of Asphalt Pavement, Partial Depth [130 mm]*	*Removal of Asphalt Pavement, Partial Depth [160 mm]*	*Removal of Asphalt Pavement, Partial Depth [Varies]*				References
Sub - Totals Brought Forward:													
11+815 - 11+840	34							382					
11+840 - 11+852	12								166				
11+825 - 12+050	205						2,407						
12+050 - 12+300	286						1,986						
12+300 - 12+312	14								121				
12+312 - 12+400	107			612									
12+400 - 12+750	436			2,496									
12+750 - 13+100	436			2,495									
13+100 - 13+450	448			2,536									
13+450 - 13+738	377			3,093									
13+738 - 13+770	48												
13+770 - 13+800	22						237						
13+800 - 14+150	448						2,621						
14+150 - 14+500	411						2,514						
									408				
14+500 - 14+850	433						2,528						
14+850 - 15+200	417						2,530						
15+200 - 15+550	431						2,517						
15+550 - 15+900	453						2,514						
15+900 - 16+250	447						2,532						
Sub - Totals Carried Forward:	5,465	0	0	11,232	0	0	22,386	382	695				
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)				
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)				
ITEM No.		25			26								
Reference													

CHKD. _____

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 23

Location and Position	*Removal of Asphalt Pavement [Full Depth], [PPS]*	*Removal of Asphalt Pavement [Full Depth], [Sideroad]*	*Removal of Asphalt Pavement [Full Depth], [Entrance]*	*Removal of Asphalt Pavement, Partial Depth [50 mm]*	*Removal of Asphalt Pavement, Partial Depth [60 mm]*	*Removal of Asphalt Pavement, Partial Depth [90 mm]*	*Removal of Asphalt Pavement, Partial Depth [130 mm]*	*Removal of Asphalt Pavement, Partial Depth [160 mm]*	*Removal of Asphalt Pavement, Partial Depth [Varies]*				References
Sub - Totals Brought Forward:	5,465	0	0	11,232	0	0	22,386	382	695				
16+250 - 16+600	422						2,524						
16+600 - 16+950	408						2,536						
16+950 - 17+188	311						2,141						
17+188 - 17+200	21								121				
17+200 - 17+530	534							3,296					
SIDEROADS													
CULVER ROAD													
9+949 - 9+994		450											
BLUE LINE ROAD													
9+949 - 9+994									671				
10+006 - 10+050									641				
COCKSHUTT ROAD													
9+958 - 9+995							618						
10+005 - 10+042							578						
PAVED ENTRANCES													
11+942; 16.5 RT			38										
11+963; 16.5 RT			59										
12+012; 16.5 RT			58										
Sub - Totals Carried Forward:	7,161	450	155	11,232	0	0	30,783	3,678	2,128				
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)				
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)				
ITEM No.		25			26								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 24

Location and Position	*Removal of Asphalt Pavement [Full Depth], [PPS]*	*Removal of Asphalt Pavement [Full Depth], [Sideroad]*	*Removal of Asphalt Pavement [Full Depth], [Entrance]*	*Removal of Asphalt Pavement, Partial Depth [50 mm]*	*Removal of Asphalt Pavement, Partial Depth [60 mm]*	*Removal of Asphalt Pavement, Partial Depth [90 mm]*	*Removal of Asphalt Pavement, Partial Depth [130 mm]*	*Removal of Asphalt Pavement, Partial Depth [160 mm]*	*Removal of Asphalt Pavement, Partial Depth [Varies]*				References
Sub - Totals Brought Forward:	7,161	450	155	11,232	0	0	30,783	3,678	2,128				
12+021; 16.5 RT			35										
12+140; 14.9 RT			69										
12+195; 16.5 RT			68										
12+222; 16.4 RT			71										
12+246; 15.1 LT			283										
12+248; 16.2 RT			76										
12+333; 15.8 RT			71										
12+396; 15.2 LT			265										
12+397; 15.3 RT			54										
12+456; 15.2 LT			24										
12+510; 15.2 LT			46										
12+653; 15.2 LT			95										
12+767; 15.3 LT			55										
12+810; 15.1 LT			81										
12+822; 15.2 RT			104										
12+871; 15.1 LT			100										
12+920; 15.3 LT			109										
12+955; 13.1 RT			66										
12+996; 13.1 RT			61										
Sub - Totals Carried Forward:	7,161	450	1,888	11,232	0	0	30,783	3,678	2,128				
	(P)	(₱)	(P)	(P)	(₱)	(P)	(P)	(P)	(P)				
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)				
ITEM No.		25			26								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 25

Location and Position	*Removal of Asphalt Pavement [Full Depth], [PPS]*	*Removal of Asphalt Pavement [Full Depth], [Sideroad]*	*Removal of Asphalt Pavement [Full Depth], [Entrance]*	*Removal of Asphalt Pavement, Partial Depth [50 mm]*	*Removal of Asphalt Pavement, Partial Depth [60 mm]*	*Removal of Asphalt Pavement, Partial Depth [90 mm]*	*Removal of Asphalt Pavement, Partial Depth [130 mm]*	*Removal of Asphalt Pavement, Partial Depth [160 mm]*	*Removal of Asphalt Pavement, Partial Depth [Varies]*				References
Sub - Totals Brought Forward:	7,161	450	1,888	11,232	0	0	30,783	3,678	2,128				
13+750; 15.1 RT			121										
13+947; 15.1 RT			126										
14+252; 19.8 RT			55										
14+423; 16.6 RT			78										
15+209; 15.2 LT			13										
15+463; 15.2 LT			91										
15+632; 15.2 LT			75										
15+665; 15.1 LT			60										
16+481; 15.2 LT			67										
16+575; 15.2 LT			69										
16+869; 15.3 RT			68										
17+113; 15.2 LT			72										
17+164; 15.2 LT			96										
17+206; 15.5 LT			127										
17+310; 15.3 RT			191										
17+340; 15.3 RT			43										
17+352; 15.2 LT			60										
Cockshutt Road													
9+927; 14.0 RT			100										
Sub - Totals Carried Forward:	7,161	450	3,400	11,232	0	0	30,783	3,678	2,128				
	7,161	450	3,400	11,232	0	0	30,783	3,678	2,128				
	(P)	(₱)	(P)	(P)	(₱)	(P)	(P)	(P)	(P)				
TOTALS		11,011			47,821								
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)				
ITEM No.		25			26								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 26

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [CSP]*		*Removal of Cable Guide Rail [3 Cable]*		*Removal of Anchor Blocks*		*Removal of Concrete*				References
Sub - Totals Brought Forward:													
11+894 RT			9										
11+962 RT			46										
12+012 RT			9										
12+021 RT			21										
12+104 RT			13										
12+130 RT			3										
12+140 RT			10										
12+206 RT			59										
12+246 LT			28										
12+248 RT			9										
12+282 RT			3										
12+333 RT			9										
12+402 RT			24										
12+653 LT			12										
12+721 RT			14										
12+767 LT			6										
12+895			10										
12+919 LT			9										
13+028 RT			9										
Sub - Totals Carried Forward:	0		303		0		0		0				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m (P)		m (P)		m (P)		each (P)		m3 (P)				
ITEM No.	27		28		29		30		31				
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 27

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [CSP]*		*Removal of Cable Guide Rail [3 Cable]*		*Removal of Anchor Blocks*		*Removal of Concrete*				References
Sub - Totals Brought Forward:	0		303		0		0		0				
13+040 LT (Culver Rd)			19										
13+045 - 13+059 LT	23												
13+068 LT			9										
13+113 RT			9										
13+292 LT			9										
13+602 - 13+635 LT	42												
13+621 - 13+640 RT	44												
13+643 LT (Blue Line Rd North)			25										
13+644 RT (Blue Line Rd South)			36										
13+647 - 13+665 LT	35												
13+650 - 13+681 RT	40												
13+750 RT			15										
13+867 RT			13										
13+943 LT			6										
13+947 RT			16										
14+009 RT			12										
14+090 RT			15										
14+151 RT			14										
14+230 LT			53										
Sub - Totals Carried Forward:	184		554		0		0		0				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m (P)		m (P)		m (P)		each (P)		m3 (P)				
ITEM No.	27		28		29		30		31				
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 28

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [CSP]*		*Removal of Cable Guide Rail [3 Cable]*		*Removal of Anchor Blocks*		*Removal of Concrete*				References
Sub - Totals Brought Forward:	184		554		0		0		0				
14+252 RT			10										
14+288 RT			11										
14+423 RT			14										
14+694 RT			9										
14+710 RT			15										
14+837 LT			6										
15+154 CL NRFO CULVERT									41				
15+209 LT			9										
15+267 RT			13										
15+387 CL NRFO CULVERT									40				
15+665 LT			12										
15+857 CL NRFO CULVERT									41				
15+991 LT							1						
15+991 - 16+147 LT					155								
15+986 RT							1						
15+986 - 16+148 RT					162								
16+145 LT							1						
16+069 CL NRFO CULVERT									111				
16+148 RT							1						
Sub - Totals Carried Forward:	184		653		317		4		233				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m (P)		m (P)		m (P)		each (P)		m3 (P)				
ITEM No.	27		28		29		30		31				
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 29

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [CSP]*		*Removal of Cable Guide Rail [3 Cable]*		*Removal of Anchor Blocks*		*Removal of Concrete*				References
Sub - Totals Brought Forward:	184		653		317		4		233				
16+481 LT			13										
16+501 LT			9										
16+555 RT			9										
16+575 LT			9										
16+644 LT			9										
16+658 RT			9										
16+692 RT			7										
16+701 LT			11										
16+707 CL NRFO CULVERT									41				
16+767 LT			8										
16+792 LT			9										
16+811 LT			9										
16+855 LT			9										
16+869 RT			9										
16+919 LT			6										
16+996 LT			6										
17+039 LT			14										
17+164 LT			18										
17+207 LT			18										
Sub - Totals Carried Forward:	184		835		317		4		274				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m (P)		m (P)		m (P)		each (P)		m3 (P)				
ITEM No.	27		28		29		30		31				
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 30

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [CSP]*		*Removal of Cable Guide Rail [3 Cable]*		*Removal of Anchor Blocks*		*Removal of Concrete*				References
Sub - Totals Brought Forward:	184		835		317		4		274				
17+300 - 17+315 RT	15												
17+429 RT			8										
Sub - Totals Carried Forward:	199		843		317		4		274				
	(P)		(P)		(P)		(P)		(P)				
TOTALS	199		843		317		4		274				
UNIT	m (P)		m (P)		m (P)		each (P)		m3 (P)				
ITEM No.	27		28		29		30		31				
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 31

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Rip-Rap (R-50)*		*Geotextile (Class II) (non-woven) (FOS 75-150 micron)*		*Temporary Flow Passage System*								References
Sub - Totals Brought Forward:													
CENTRELINE CULVERTS													
15+154 LT	8		12		100 %								
15+154 RT	8		11										
15+388 LT	9		12		100 %								
15+388 RT	6		9										
15+857 LT	11		14		100 %								
15+857 RT	7		9										
16+069 LT	104		122		100 %								
16+069 RT	76		94										
16+707 LT	10		12		100 %								
16+707 RT	7		9										
Sub - Totals Carried Forward:	246		304		100 %								
	(P)		(P)										
TOTALS	246		304		100 %								
UNIT	m2 (P)		m2 (P)		lump sum								
ITEM No.	32		33		34								
Reference													

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Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 32

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:													
STAGING													
Throughout project limits				100 %									
200 m west of Ireland Rd						1							
500 m east of Cockshutt Rd						1							
Detour Route Plan						2							
HWY 3 - WESTBOUND													
11+801 LT; 9.8m from CL	1	1											
11+805 LT; 9.9m from CL	1												
11+819 LT		1											
11+823 LT		1											
11+824 LT; 9.8m from CL	1												
11+847 LT		1											
11+878 LT		1											
11+885 LT; 10.6m from CL	1												
11+932 LT		1											
11+950 LT; 8.2m from CL	1												
12+010 LT; 8.3m from CL	1												
12+042 LT		1											
12+075 LT; 6.5m from CL	1												
Sub - Totals Carried Forward:	7	7		100 %		4							
	(P)	(P)				(P)							
TOTALS													
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 33

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:	7	7		100 %		4							
12+098 LT		1											
12+185 LT; 7.2m from CL	1												
13+100 LT		1											
13+120 LT; 7.9m from CL	1												
13+212 LT		1											
13+450 LT; 7.8m from CL	1												
13+504 LT		1											
13+515 LT; 9.0m from CL	1												
13+586 LT; 9.7m from CL	2	2											
13+709 LT; 10.5m from CL	2	2											
13+866 LT; 8.6m from CL	1	1											
13+920 LT		2											
13+961 LT		1											
14+000 LT; 6.3m from CL	1												
14+070 LT; 8.7m from CL	2												
16+940 LT; 6.7m from CL	1												
17+010 LT; 6.3m from CL	1												
17+098 LT; 8.2m from CL	3	3											
17+131 LT; 8.3m from CL	1	1											
Sub - Totals Carried Forward:	25	23		100 %		4							
	(P)	(P)				(P)							
TOTALS													
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 34

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:	25	23		100 %		4							
17+149 LT		1											
17+183 LT; 7.2m from CL	2	2											
17+225 LT; 8.4m from CL	1												
17+275 LT; 8.4m from CL	1												
17+312 LT; 8.7m from CL	1	1											
17+324 LT; 8.3m from CL	1	1											
17+335 LT		1											
17+360 LT; 8.6m from CL	1												
17+535 LT; 8.6m from CL	1	1											
17+572 LT		1											
17+620 LT; 7.3m from CL	1	1											
17+670 LT; 8.1m from CL	7												
17+770 LT; 8.4m from CL	1												
HWY 3 - EASTBOUND													
11+824 RT; 8.2m from CL	1	1											
11+850 RT		1											
11+870 RT; 9.8m from CL	1												
11+988 RT; 9.7m from CL	1	1											
Sub - Totals Carried Forward:	45	35		100 %		4							
	(P)	(P)				(P)							
TOTALS													
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 35

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:	45	35		100 %		4							
12+073 RT; 9.3m from CL	1	1											
12+169 RT; 7.5m from CL	1	1											
12+641 RT; 7.3m from CL	1												
12+859 RT		1											
12+917 RT; 7.8m from CL	1	1											
13+041 RT; 8.3m from CL	1	1											
13+084 RT		1											
13+100 RT; 7.7m from CL	1												
13+215 RT; 6.3m from CL	2												
13+285 RT; 7.9m from CL	1												
13+346 RT		2											
13+396 RT; 8.8m from CL	1	1											
13+432 RT		1											
13+576 RT; 9.5m from CL	2	2											
13+692 RT; 9.7m from CL	2	2											
13+780 RT; 7.5m from CL	1												
13+805 RT		1											
16+750 RT; 7.8m from CL	1												
16+921 RT		1											
Sub - Totals Carried Forward:	61	51		100 %		4							
	(P)	(P)				(P)							
TOTALS													
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 36

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:	61	51		100 %		4							
16+969 RT; 7.7m from CL	1	1											
17+003 RT		1											
17+030 RT; 7.1m from CL	1												
17+192 RT; 11.5m from CL	1	1											
17+203 RT; 10.7m from CL	1	1											
17+271 RT; 12.7m from CL	1	1											
17+295 RT		1											
17+355 RT; 8.8m from CL	1												
17+415 RT;8.67m from CL	2												
17+521 RT		2											
17+500 RT; 8.1m from CL	1												
17+575 RT; 7.5m from CL	1												
SIDEROADS													
CULVER ROAD													
9+828 RT; 7.7m from CL	1	1											
9+982RT; 4.5m from CL	1	1											
BLUE LINE ROAD NORTH													
9+668 RT; 6.6m from CL	1	1											
9+830 RT; 6.8m from CL	1												
Sub - Totals Carried Forward:	75	62		100 %		4							
	(P)	(P)				(P)							
TOTALS													
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
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SHEET 37

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:	75	62		100 %		4							
9+950 RT; 8.9m from CL	1												
10+019 LT		4											
BLUE LINE ROAD SOUTH													
9+983 LT		1											
10+060 LT; 9.6m from CL	1												
10+250 LT; 6.7m from CL	1												
10+318 LT; 6.5m from CL	1	1											
COCKSHUTT ROAD NORTH													
9+661 RT		1											
9+780 RT; 8.9m from CL	1												
9+860 RT; 7.4m from CL	1												
9+960 RT; 6.3m from CL	1												
10+020 RT		1											
COCKSHUTT ROAD SOUTH													
9+984 LT		1											
10+040 LT; 9.5m from CL	1												
10+175 RT; 6.5m from CL	1												
10+265 LT; 6.3m from CL	1												
10+346 LT		1											
Sub - Totals Carried Forward:	85	72		100 %		4							
	(P)	(P)				(P)							
TOTALS	85	72		100 %		4							
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	35	36		37		38							
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 38

Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [363 Broken] [Yellow, 10cm]	Pavement Marking [Solid Double] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 10cm]	Pavement Marking, Durable [Solid] [White, 20cm]	Pavement Marking, Durable [Solid] [Yellow, 20cm]	Pavement Marking, Durable [333 Broken] [White, 10cm]	Pavement Marking, Durable [Solid Double] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 60cm]	Pavement Marking Symbols, Durable [Turn Symbols]	References
Sub - Totals Brought Forward:													
HWY 3													
TWP OF TOWNSEND													
11+815 - 11+910 LT						95							
11+815 - 11+941 RT		126											
11+815 - 12+173 RT									180				
11+815 - 13+035 LT		1,260											
11+815 - 13+036				2,443									
11+820 LT												1	
11+865 LT												1	
11+910 LT												1	
11+910 - 12+070 LT									80				
11+941 - 12+203 RT							524						
11+955 LT												1	
12+198 LT & RT												2	
12+203 - 13+641 RT		1,476											
12+770 - 12+930 RT									80				
12+884 RT												1	
12+930 RT												1	
12+930 - 13+036 RT						106							
Sub - Totals Carried Forward:	0	2,862	0	2,443	0	201	524	0	340	0	0	8	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	
ITEM No.		39				40						41	
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 39

Location and Position	*Pavement Marking [Solid] [Yellow, 10cm]*	*Pavement Marking [Solid] [White, 10cm]*	*Pavement Marking [363 Broken] [Yellow, 10cm]*	*Pavement Marking [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 10cm]*	*Pavement Marking, Durable [Solid] [White, 20cm]*	*Pavement Marking, Durable [Solid] [Yellow, 20cm]*	*Pavement Marking, Durable [333 Broken] [White, 10cm]*	*Pavement Marking, Durable [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 60cm]*	*Pavement Marking Symbols, Durable [Turn Symbols]*	References
Sub - Totals Brought Forward:	0	2,862	0	2,443	0	201	524	0	340	0	0	8	
12+975 RT												1	
13+021 RT												1	
13+042 - 13+634 LT		670											
13+055 - 13+230 GORE AREA (RUNOUT)					354			168					
13+230 - 13+382				304									
13+382 - 13+626										488			
13+382 - 13+542 RT									80				
13+496 RT												1	
13+534 RT												1	
13+542 -13+626						84							
13+572 RT												1	
13+611 RT												1	
13+626 STOP BAR RT											44		
13+646 - 17+243 LT		3,668											
13+653 - 17+248 RT		3,668											
13+661 - STOP BAR											44		
13+661 - 13+757 LT						96							
13+661 - 13+919										516			
13+676 LT												1	
Sub - Totals Carried Forward:	0	10,868	0	2,747	354	381	524	168	420	1,004	88	15	
	(P)	(₱)	(P)	(P)	(P)	(₱)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	
ITEM No.		39				40						41	
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 40

Location and Position	*Pavement Marking [Solid] [Yellow, 10cm]*	*Pavement Marking [Solid] [White, 10cm]*	*Pavement Marking [363 Broken] [Yellow, 10cm]*	*Pavement Marking [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 10cm]*	*Pavement Marking, Durable [Solid] [White, 20cm]*	*Pavement Marking, Durable [Solid] [Yellow, 20cm]*	*Pavement Marking, Durable [333 Broken] [White, 10cm]*	*Pavement Marking, Durable [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 60cm]*	*Pavement Marking Symbols, Durable [Turn Symbols]*	References
Sub - Totals Brought Forward:	0	10,868	0	2,747	354	381	524	168	420	1,004	88	15	
13+718 LT												1	
13+757 - 13+919									81				
13+760 LT												1	
13+802 LT												1	
13+919 - 13+985				132									
13+985 - 14+162	177												
13+985 - 14+162			59										
14+162 - 16+934			924										
16+784 - 16+934	150												
16+934 - 16+986				104									
16+986 - 17+232											492		
16+986 - 17+146 RT									80				
17+098 RT												1	
17+146 - 17+232 RT						86							
17+158 RT												1	
17+217 RT												1	
17+232 - STOP BAR RT											48		
17+255 - 17+530 LT		304											
17+260 - 17+530 RT		304											
Sub - Totals Carried Forward:	327	11,476	983	2,983	354	467	524	168	581	1,004	628	21	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	
ITEM No.		39				40						41	
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 41

Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [363 Broken] [Yellow, 10cm]	Pavement Marking [Solid Double] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 10cm]	Pavement Marking, Durable [Solid] [White, 20cm]	Pavement Marking, Durable [Solid] [Yellow, 20cm]	Pavement Marking, Durable [333 Broken] [White, 10cm]	Pavement Marking, Durable [Solid Double] [Yellow, 10cm]	Pavement Marking, Durable [Solid] [White, 60cm]	Pavement Marking Symbols, Durable [Turn Symbols]	References
Sub - Totals Brought Forward:	327	11,476	983	2,983	354	467	524	168	581	1,004	628	21	
17+273 - STOP BAR LT											48		
17+273 - 17+365 LT						92							
17+273 - 17+530										514			
17+288 LT												1	
17+344 LT												1	
17+365 - 17+525 LT									80				
17+400 LT												1	
SIDEROADS													
CULVER ROAD													
9+949 - 9+992					43								
9+992 STOP BAR											60		
BLUE LINE ROAD													
9+949 - 9+983 RT						34							
9+949 - 9+983 LT										68			
9+968												1	
9+983 - STOP BAR											48		
10+020 - STOP BAR											48		
10+020 - 10+051 RT										62			
10+020 - 10+051						31							
Sub - Totals Carried Forward:	327	11,476	983	2,983	397	624	524	168	661	1,648	832	25	
	(P)	(₱)	(P)	(P)	(P)	(₱)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	
ITEM No.		39				40						41	
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 42

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Pavement Marking [Solid] [Yellow, 10cm]*	*Pavement Marking [Solid] [White, 10cm]*	*Pavement Marking [363 Broken] [Yellow, 10cm]*	*Pavement Marking [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 10cm]*	*Pavement Marking, Durable [Solid] [White, 20cm]*	*Pavement Marking, Durable [Solid] [Yellow, 20cm]*	*Pavement Marking, Durable [333 Broken] [White, 10cm]*	*Pavement Marking, Durable [Solid Double] [Yellow, 10cm]*	*Pavement Marking, Durable [Solid] [White, 60cm]*	*Pavement Marking Symbols, Durable [Turn Symbols]*	References
Sub - Totals Brought Forward:	327	11,476	983	2,983	397	624	524	168	661	1,648	832	25	
10+035												1	
REGIONAL ROAD 5 (COCKSHUT ROAD)													
9+959 -9+984 RT						25							
9+959 -9+984 LT										50			
9+969												1	
9+984 - STOP BAR											48		
10+016 - STOP BAR											48		
10+016 - 10+042 RT										52			
10+016 - 10+042 LT						26							
10+031												1	
Sub - Totals Carried Forward:	327	11,476	983	2,983	397	675	524	168	661	1,750	928	28	
	327 (P)	11,476 (₱)	983 (P)	2,983 (P)	397 (P)	675 (₱)	524 (P)	168 (P)	661 (P)	1,750 (P)	928 (P)	(P)	
TOTALS		15,769				5,103						28	
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	
ITEM No.		39				40						41	
Reference													

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Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 43

Location and Position	*High Tension Three Cable Guide Rail - Shoulder Installation*		*High Tension Cable Guide Rail Terminal System*										References
Sub - Totals Brought Forward:													
15+984 - 15+996; 6.55 RT			1										
15+984 - 16+1452; 6.25 RT	170												
15+983 - 15+995; 6.55 LT			1										
15+983 - 16+150; 6.25 LT	168												
16+138 - 16+150; 6.55 LT			1										
16+140 - 16+152; 6.55 RT			1										
Sub - Totals Carried Forward:	338		4										
	(P)		(P)										
TOTALS	338		4										
UNIT	m (P)		each (P)										
ITEM No.	42		43										
Reference													

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Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

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SHEET 44

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:													
11+894 RT Entrance Culvert	1			6									
11+909 RT								1					
11+962 RT Entrance Culvert	1			6									
12+012 RT Entrance Culvert	1			6									
12+028 RT Entrance Culvert	1			6									
12+097 RT								1					
12+104 RT Entrance Culvert	1			6									
12+130 RT Entrance Culvert	1			6									
12+140 RT Entrance Culvert	1			6									
12+195 RT Entrance Culvert	1			6									
12+270 RT								1					
12+246 LT Entrance Culvert	1			6									
12+282 RT Entrance Culvert	1			6									
12+291 RT Entrance Culvert	1			6									
12+326 RT								1					
12+333 RT Entrance Culvert	1			6									
12+296 RT Entrance Culvert	1			6									
12+413 RT Entrance Culvert	1			6									
12+420 - 12+550 RT	44			884									
Sub - Totals Carried Forward:	58	0		968		0		4					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 45

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	58	0		968		0		4					
12+475 RT								1					
12+653 LT Entrance Culvert	1			6									
12+675 RT								1					
12+714 RT								1					
12+721 RT Entrance Culvert	1			6									
12+760 - 13+200 RT	132			2,640									
12+768 LT Entrance Culvert	1			6									
12+770 - 13+230 LT	138			2,760									
12+870 LT Entrance Culvert	1			6									
12+882 RT Entrance Culvert	1			6									
12+895 RT Entrance Culvert	1			6									
12+919 LT Entrance Culvert	1			6									
12+955 RT Entrance Culvert	1			6									
12+966 LT Entrance Culvert	1			6									
12+995 RT Entrance Culvert	1			6									
13+029 RT Entrance Culvert	1			6									
13+068 LT Entrance Culvert	1			6									
13+100 - 13+140 RT	4			80									
13+100 - 13+630 LT	53			1,060									
Sub - Totals Carried Forward:	397	0		7,580		0		7					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 46

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	397	0		7,580		0		7					
13+113 RT Entrance Culvert	1			6									
13+180 - 14+690 RT	498			9,968									
13+147 LT								1					
13+292 LT Entrance Removal	3			58									
13+211 RT								1					
13+273 LT								1					
13+304 LT								1					
13+321 RT								1					
13+390 RT Entrance Removal	5			83									
13+442 RT								1					
13+457 LT								1					
13+490 - 13+630 LT	42			840									
13+518 LT								1					
13+540 RT								1					
13+577 LT								1					
13+845 LT								1					
13+864 RT Entrance Removal	3			55									
13+945 LT Entrance Removal	3			55									
13+947 RT Entrance Culvert	1			6									
Sub - Totals Carried Forward:	953	0		18,651		0		18					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

CHKD. _____

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DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 47

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	953	0		18,651		0		18					
14+009 RT Entrance Culvert	1			6									
14+013 LT								1					
14+082 RT								1					
14+090 RT Entrance Culvert	1			6									
14+125 RT								1					
14+151 RT Entrance Culvert	1			6									
14+168 RT								1					
14+211 LT Entrance Culvert	1			6									
14+234 RT								1					
14+241 LT Entrance Culvert	1			6									
14+252 RT Entrance Culvert	1			6									
14+288 RT Entrance Culvert	1			6									
14+296 LT								1					
14+407 LT								1					
14+407 RT								1					
14+423 RT Entrance Culvert	1			6									
14+694 RT Entrance Culvert	1			6									
14+712 RT Entrance Culvert	1			6									
14+838 LT Entrance Culvert	1			6									
Sub - Totals Carried Forward:	964	0		18,717		0		26					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 48

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	964	0		18,717		0		26					
14+990 - 15+088 LT	28			559									
15+060 LT Entrance Culvert	1			6									
15+110 LT								1					
15+110 RT								1					
15+146 LT								1					
15+146 RT								1					
15+164 LT								1					
15+164 RT								1					
15+209 LT Entrance Culvert	1			6									
15+265 RT Entrance Culvert	1			6									
15+310 - 16+020 RT	224			4,473									
15+330 - 15+570 LT	76			1,512									
15+372 LT								1					
15+372 RT								1					
15+404 LT								1					
15+404 RT								1					
15+665 LT Entrance Culvert	1			6									
15+840 - 15+960 LT	37			732									
16+001 LT								1					
Sub - Totals Carried Forward:	1,333	0		26,017		0		37					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 49

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	1,333	0		26,017		0		37					
16+038 - 16+117 LT						80							
16+038 - 16+117 RT						80							
16+050 LT								1					
16+060 RT								1					
16+080 RT								1					
16+080 LT								1					
16+150 - 16+300 RT	41			825									
16+170 - 16+630 LT	163			3,266									
16+350 LT								1					
16+350 RT								1					
16+404 LT								1					
16+404 RT								1					
16+410 - 17+230 RT	162			6,643									
16+450 LT								1					
16+450 RT								1					
16+481 LT Entrance Culvert	1			6									
16+491 LT								1					
16+491 RT								1					
16+501 LT Entrance Culvert	1			6									
Sub - Totals Carried Forward:	1,701	0		36,763		160		49					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 50

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	1,701	0		36,763		160		49					
16+554 RT Entrance Culvert	1			6									
16+575 LT Entrance Culvert	1			6									
16+645 LT Entrance Culvert	1			6									
16+657 RT Entrance Culvert	1			6									
16+692 RT Entrance Culvert	1			6									
16+701 LT Entrance Culvert	1			6									
16+727 LT								1					
16+727 RT								1					
16+756 LT								1					
16+768 LT Entrance Culvert	1			6									
16+778 LT								1					
16+793 LT Entrance Culvert	1			6									
16+811 LT Entrance Culvert	1			6									
16+856 RT								1					
16+856 LT Entrance Culvert	1			6									
16+869 RT Entrance Culvert	1			6									
16+919 LT Entrance Culvert	1			6									
16+995 LT Entrance Culvert	1			6									
17+040 LT Entrance Culvert	1			6									
Sub - Totals Carried Forward:	1,715	0		36,847		160		54					
		(P)		(P)		(P)		(P)					
TOTALS													
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 51

Location and Position	*Topsoil, Imported*	*Seed and Erosion Control Blanket Standard Roadside Seeding*		*Seed and Matrix Standard Roadside Mix Seeding*		*Heavy-Duty Wire-Backed Silt Fence Barriers*		*Fibre Roll Flow Check Dams*					References
Sub - Totals Brought Forward:	1,715	0		36,847		160		54					
17+110 - 17+230 LT	29			576									
17+164 LT Entrance Culvert	1			6									
17+206 LT Entrance Culvert	1			6									
17+310 LT Entrance Removal	12			221									
17+429 RT Entrance Culvert	1			6									
HWY 3 MAINLINE CULVERTS													
15+154 CL	20			400									
15+387 CL	20			400									
15+856 CL	20			400									
16+069 CL	50	985											
16+707 CL	20			400									
SIDEROAD CULVERTS													
9+988 CL (Culver Rd)	2			40									
9+982 CL (Blueline Rd)	5			100									
10+013 CL (Blueline Rd)	5			100									
Sub - Totals Carried Forward:	1,901	985		39,502		160		54					
		(P)		(P)		(P)		(P)					
TOTALS	1,901	985		39,502		160		54					
UNIT	m3	m2 (P)		m2 (P)		m (P)		each (P)					
ITEM No.	44	45		46		47		48					
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 52

Location and Position	*Coniferous Tree, 1 m Height [Eastern White Cedar]*		*Clean Out Sewers*		*Clean Out of Pipe Culverts*								References
Sub - Totals Brought Forward:													
11+837; 13.5m RT					1								
12+420 - 12+693; 11.3m RT	110												
12+428 - 12+452; 11.0m LT	11												
12+463 - 12+480; 11.3m LT	7												
12+490 - 12+504; 11.3m LT	6												
12+517 - 12+646; 11.4m LT	53												
12+330 - 12+534; 11.0m LT			204										
12+660 - 12+763; 11.4m LT	42												
12+777 - 12+803; 11.3m LT	11												
12+818 - 12+861; 11.3m LT	19												
12+879 - 12+910; 11.2m LT	13												
12+929 - 12+960; 11.4m LT	13												
13+059 - 13+305; 11.5m LT	99												
13+185 - 13+435; 10.8m RT	101												
14+405 - 14+822; 10.9m LT	168												
14+520 - 14+687; 16.2m RT	68												
14+730 - 15+255; 11.3m RT	211												
14+852 - 15+054; 11.2m LT	82												
15+069 - 15+200; 11.1m LT	54												
Sub - Totals Carried Forward:	1,068		204		1								
	(P)		(P)		(P)								
TOTALS													
UNIT	each (P)		m (P)		each (P)								
ITEM No.	49		50		51								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00
Contract No. 2018-3010

SHEET 53

Location and Position	*Coniferous Tree, 1 m Height [Eastern White Cedar]*		*Clean Out Sewers*		*Clean Out of Pipe Culverts*								References
Sub - Totals Brought Forward:	1,068		204		1								
15+215 - 15+228; 11.2m LT	6												
15+260 - 15+454; 11.2m LT	79												
15+280 - 15+520; 11.2m RT	97												
15+471 - 15+626; 11.1m LT	63												
15+638 - 15+659; 11.1m LT	50												
15+670; 9.5m LT					1								
15+674 - 15+964; 11.1m LT	117												
15+981 - 16+154; 10.9m LT	74												
16+152; 10.5m LT					1								
16+166 - 16+415; 11.0m LT	101												
17+260; 37m LT to 17+381; 11.4m LT			146										
Sub - Totals Carried Forward:	1,655		350		3								
	(P)		(P)		(P)								
TOTALS	1,655		350		3								
UNIT	each (P)		m (P)		each (P)								
ITEM No.	49		50		51								
Reference													

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - MISCELLANEOUS 1

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 54

Location and Position	*1800 mm x 900 mm Precast Concrete Box Culvert*													References
Sub - Totals Brought Forward:														
HWY 3														
15+154 CL	19.5													
15+387 CL	19.8													
15+857 CL	20.5													
16+707 CL	20.3													
Sub - Totals Carried Forward:	80.1													
	(P)													
TOTALS	80.1													
UNIT	m (P)													
ITEM No.	52													
Reference														

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MINISTRY OF TRANSPORTATION - ONTARIO

Miscellaneous 1

QUANTITIES - STRUCTURE

W.P. No. 3062-14-00

Contract No. 2018-3010

SHEET 55

Structural	*Earth Excavation for Structure*		*Dewatering Structure Excavation*		*Mass Concrete*		*4200 mm x 1800 mm Precast Conc. Box Culvert, Structural (Span > 3 m)*		*Placement of Streambed Material [SB-200]*		*Culvert Waterproofing*					References
LUMP SUM																
HWY 3																
15+154 CL	553										47.0					
15+388 CL	479										48.0					
15+857 CL	542		100 %		8						50.0					
16+069 CL	4,759		100 %		30		40.2		34		349.0					
16+707 CL	528										49.0					
	6,861		100 %		38		40.2		34		543.0					
	(P)				(P)		(P)				(P)					
TOTALS	6,861		100 %		38		40.2		34		543					
UNIT	m3 (P)		lump sum		m3 (P)		m (P)		m3		m2 (P)					
ITEM No.	53		54		55		56		57		58					

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Structural

QUANTITIES - POLE ASSEMBLIES AND FOOTINGS

W.P. No. 3062-14-00

Contract No. 2018-3010

Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	*172 W LED Luminaire 120 V LED Luminaire* [1]	*2.4 m Al. Tapered Elliptical Bracket*	*#12 AWG Riser Wires 3 Wires/Pole* [2]											
Sub - Totals Brought Forward:																	
Cockshutt Road	EP9			1		15											
Cockshutt Road	EP13			1		15											
Blueline Road	EP1			1		15											
Blueline Road	EP5			1		15											
Sub - Totals Carried Forward:				4	0	60											
				4 (P)													
TOTALS				4													
UNIT				each (P)	each (P)	m (P)											
ITEM No.				60													

Remarks *1.* Existing HPS luminaires shall be replaced with LED.

2. New riser wire shall be supplied & installed.

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. 3062-14-00
Contract No. 2018-3010

Location	Controller Number or Detector Number	Size of Loop (m)	Number of Turns	Loop Inductance (uH)	*Loop Detectors [Simple] Loop in Pavement*	*Loop Detectors [Duplex] Loop in Pavement*	*Input File Connection Terminal*	*Traffic Count Station [Type 1] [MTOD 2901.021]*		*Traffic Signal Controllers [Drawing No. 79 - 80]*							
Sub - Totals Brought Forward:																	
12+540	A							1									
12+540 EBL	TCS1	2x2	4	132	1												
12+540 WBL	TCS1	2x2	3	79	1												
Hwy 3 & Blueline Rd.										1							
Blueline Rd. NB Left-Turn Lane	LD12	2x19	2-4-2	518		1											
Blueline Rd. NB Lane	LD13	2x19	2-4-2	518		1											
Blueline Rd. SB Left-Turn lane	LD11	2x18	2-4-2	492		1											
Blueline Rd. SB Lane	LD19	2x18	2-4-2	492		1											
Blueline Rd. Long Distance Loop WB	LD8	1.8x1.8	4	118	1												
Blueline Rd. Long Distance Loop EB	LD3	1.8x1.8	4	118	1												
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)										1							
Norfolk Rd. 5 (Cockshutt Rd.) NB Left-Turn Lane	LD6	2x21	2-4-2	571		1											
Norfolk Rd. 5 (Cockshutt Rd.) NB Lane	LD7	2x21	2-4-2	571		1											
Norfolk Rd. 5 (Cockshutt Rd.) SB Left-Turn lane	LD5	2x19	2-4-2	518		1											
Norfolk Rd. 5 (Cockshutt Rd.) SB Lane	LD4	2x19	2-4-2	518		1											
Norfolk Rd. 5 (Cockshutt Rd.) Long Distance Loop WB	LD14	1.8x1.8	4	118	1												
Norfolk Rd. 5 (Cockshutt Rd.) Long Distance Loop EB	LD9	1.8x1.8	4	118	1												
Sub - Totals Carried Forward:					6	8	0	1		2							
					6	8											
					(P)	(P)		(P)		(P)							
TOTALS						14		1		2							
UNIT					each (P)	each (P)	each (P)	each (P)		each (P)							
ITEM No.						64		65		63							

Remarks:

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QUANTITIES - TRAFFIC SIGNAL EQUIPMENT

W.P. No. 3062-14-00

Contract No. 2018-3010

Location	Pole No.	Signal Head Facing Direction	*Highway Type Signal Heads* [1]	*Riser Wires #14 AWG, 5/C* [2]		*3.6 m, Single Member Arms and Signal Hangers*	*4.6 m, Single Member Arms and Signal Hangers*	*5.5 m, Single Member Arms and Signal Hangers*							
Sub - Totals Brought Forward:															
Hwy 3 & Blueline Rd. Traffic Signal															
Hwy 3 & Blueline Rd.; NB, Primary	EP3	S	1	15											
Hwy 3 & Blueline Rd.; NB, Secondary	EP2	S	1	15		1									
Hwy 3 & Blueline Rd.; EB, Primary	EP5	W	1	15				1							
Hwy 3 & Blueline Rd.; EB, Secondary	EP4	W	1	15		1									
Hwy 3 & Blueline Rd.; SB, Primary	EP7	N	1	15											
Hwy 3 & Blueline Rd.; SB, Secondary	EP6	N	1	15											
Hwy 3 & Blueline Rd.; WB, Primary	EP1	E	1	15											
Hwy 3 & Blueline Rd.; WB, Secondary	EP8	E	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.) Traffic Signal															
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); NB Primary	EP11	S	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); NB Secondary	EP10	S	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); EB, Primary	EP13	W	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); EB, Secondary	EP12	W	1	15			1								
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); SB, Primary	EP15	N	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); SB, Secondary	EP14	N	1	15			1								
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); WB, Primary	EP9	E	1	15											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.); WB, Secondary	EP16	E	1	15											
Sub - Totals Carried Forward:			16	240		2	2	1							
			(P)			2 (P)	2 (P)	1 (P)							
TOTALS			16				5								
UNIT			each (P)	m (P)		each (P)	each (P)	each (P)							
ITEM No.			62				61								

Remarks: *1.* All heads are 30-30-30cm. Supply & install new dual-end hanger. *2.* New riser wire shall be supplied & installed.

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QUANTITIES - REMOVAL OF ELECTRICAL EQUIPMENT

W.P. No. 3062-14-00

Contract No. 2018-3010

Location	Removal Number	Station	*Removal of Electrical Equipment [HPS Luminaire]*	*Removal of Electrical Equipment [Highway Type Signal Head]*	*Removal of Electrical Equipment [Traffic Counting Station]*	*Removal of Electrical Equipment [Duplex Loops]*	*Removal of Electrical Equipment [Simple Loops]*	*Maintenance of Highway Lighting and Traffic Signal Systems*							
Sub - Totals Brought Forward:															
Throughout project limits								100 %							
Hwy 3 & Blueline Rd.	R1		100 %												
Hwy 3 & Blueline Rd.	R5		100 %												
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R9		100 %												
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R13		100 %												
Hwy 3 & Blueline Rd.	R1			100 %											
Hwy 3 & Blueline Rd.	R2			100 %		100 %									
Hwy 3 & Blueline Rd.	R3			100 %											
Hwy 3 & Blueline Rd.	R4			100 %											
Hwy 3 & Blueline Rd.	R5			100 %											
Hwy 3 & Blueline Rd.	R6			100 %		100 %									
Hwy 3 & Blueline Rd.	R7			100 %											
Hwy 3 & Blueline Rd.	R8			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R9			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R10			100 %		100 %									
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R11			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R12			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R13			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R14			100 %		100 %									
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R15			100 %											
Hwy 3 & Norfolk Rd. 5 (Cockshutt Rd.)	R16			100 %											
Traffic Counting Station	R17	12+540			100 %		100 %								
Sub - Totals Carried Forward:			100 %	100 %	100 %	100 %	100 %	100 %							
			100 %	100 %	100 %	100 %	100 %								
UNIT			L U M P S U M												
ITEM No.				59				66							

Remarks:

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MINISTRY OF TRANSPORTATION - ONTARIO

Electrical - Removal