

QUANTITY SHEETS

CONTRACT NO. 2021-6051
BOOK 1 OF 1

INDEX

W.P. No. 6022-19-00
Contract No. 2021-6051

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QUANTITIES - MISCELLANEOUS

W.P. No. 6022-19-00
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SHEET
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MINISTRY OF TRANSPORTATION - ONTARIO

Description	Granular Sealing (m2) [Hand Sprayed] [Sealant Type I]	Granular Sealing (m2) [Machine Sprayed] [Sealant Type I]	Tack Coat [Binder]	Tack Coat [Surface]									
Sub - Totals Brought Forward:													
HIGHWAY 17													
Township of Coldwell													
Mink Creek Culvert (Site No. 48E-0023/C0)													
20+685 - 20+790 Lt		221											
20+685 - 20+807 Rt	256												
20+685 - 20+822 Rt				345									
20+685 - 20+823				1,018									
20+685 - 20+824 Lt				347									
20+690 - 20+823			981										
20+790 - 20+809 Lt	40												
20+807 - 20+822 Rt			32										
20+809 - 20+824 Lt			32										
20+822 - 20+869				555									
20+867 - 20+880 Rt			26										
20+867 -20+950 Rt				189									
20+868 - 20+945			571										
20+868 - 20+950				607									
Sub - Totals Carried Forward:													
	296	221	1,642	3,061									
	(P)	(P)	(P)	(P)									
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)									
ITEM No.		3		4									

CHKD. _____
APPR. _____
DATE _____

Granular Sealing and Tack Coat

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
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SHEET
4

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	<i>Asphalt Spillways</i>													References
Sub - Totals Brought Forward:														
HIGHWAY 17														
Township of Coldwell														
Mink Creek Culvert (Site No. 48E-0023/C0)														
20+807 Rt	2													
20+809 Lt	2													
Sub - Totals Carried Forward:	4													
(P)														
TOTALS	4													
UNIT	m (P)													
ITEM No.	5													
Reference														

CHKD. _____
APPR. _____
DATE _____

Asphalt Spillways

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 6022-19-00
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SHEET
5

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Superpave 12.5 - 40 mm Lift Thickness Lower Binder	Superpave 12.5 - 40 mm Lift Thickness Upper Binder	Superpave 12.5 - 40 mm Lift Thickness Surface	Superpave 12.5 - 50 mm Lift Thickness Surface	Granular A [Roadway]	Granular A [Shouldering]	Granular A [Structure Backfill]	Granular B, Type II [Roadway]	Granular B, Type II [Structure Backfill]	References
Sub - Totals Brought Forward:										
HIGHWAY 17										
Township of Coldwell										
Mink Creek Culvert (Site No. 48E-0023/C0)										
19+905 - 19+950 Rt					15					
19+920 - 20+685 Rt						140				
20+685 - 20+825 Rt						94				
20+685 - 20+825 Lt						94				
20+685 - 20+823				1,018						
20+685 - 20+822 Rt		345		345						
20+685 - 20+824 Lt		347		347						
20+690 - 20+823		981								
20+695 - 20+823	945									
20+807 Rt; Asphalt Spillway				2						
20+808 - 20+819 Rt								303		
20+808 - 20+828 Rt							103			
20+809 Lt; Asphalt Spillway				2						
20+810 - 20+825 Rt Widening					8					
20+819 - 20+830 Lt & Rt								917		
20+822 - 20+830 Lt & Rt							46			
20+822 - 20+831 Lt							49			
Sub - Totals Carried Forward:	945	1,673	0	1,714	23	328	198	0	1,220	
TOTALS	(P)	(P)	(P)	(P)						
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	t	t	t	t	t	
ITEM No.		6		7		8			9	
Reference										
Remarks:	1. Allowance for guide rail installation.									
										CHKD. _____ APPR. _____ DATE _____

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 6022-19-00
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SHEET
6

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Superpave 12.5 - 40 mm Lift Thickness Lower Binder	Superpave 12.5 - 40 mm Lift Thickness Upper Binder	Superpave 12.5 - 40 mm Lift Thickness Surface	Superpave 12.5 - 50 mm Lift Thickness Surface	Granular A [Roadway]	Granular A [Shouldering]	Granular A [Structure Backfill]	Granular B, Type II [Roadway]	Granular B, Type II [Structure Backfill]	References
Sub - Totals Brought Forward:	945	1,673	0	1,714	23	328	198	0	1,220	
20+822 - 20+869		555	555							
20+823 - 20+831 Lt & Rt							98			
20+859 - 20+866 Lt & Rt							98			
20+859 - 20+869 Rt							55			
20+861 - 20+869 Lt & Rt							46			
20+861 - 20+873 Lt & Rt								1,202		
20+862 - 20+886 Lt							130			
20+865 - 20+890 Rt Widening					3			4		
20+865 - 20+950 Rt	32					59				
20+865 - 20+950 Lt	32					59				
20+867 - 20+880 Rt	26									
20+867 - 20+950 Rt		189		189						
20+868 - 20+940	535									
20+868 - 20+945		571								
20+868 - 20+950				607						
20+869 - 20+882 Lt	29									
20+873 - 20+886 Lt								372		
20+869 - 20+950 Lt		211		211						
20+950 - 21+415 Lt						52				
Sub - Totals Carried Forward:	1,599	3,199	555	2,721	26	498	625	4	2,794	
TOTALS	(P)	(P)	(P)	(P)						
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	t	t	t	t	t	
ITEM No.		6		7		8			9	
Reference										
Remarks:	1. Allowance for guide rail installation.									CHKD. _____ APPR. _____ DATE _____

Hot Mix and Granular

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
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SHEET
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Location and Position	<i>Removal of Asphalt Pavement [Full Depth], [Surface]</i>		<i>Removal of Pipes and Culverts [Concrete Arch]</i>		<i>Removal of Cable Guide Rail [3 Cable]</i>		<i>Removal of Anchor Blocks</i>		<i>Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]</i>				References
Sub - Totals Brought Forward:													
HIGHWAY 17													
Township of Coldwell													
Mink Creek Culvert (Site No. 48E-0023/C0)													
Stage 1													
20+802 Lt							1						
20+802 - 21+416 Lt					614								
20+819 -20+876 Lt	343												
20+845 Lt & Rt			38										
20+957 Lt							1						
20+977 Lt							1						
21+181 Lt							1						
21+201 Lt							1						
21+416 Lt							1						
Stage 2													
19+905 Rt							1						
19+905 - 20+928 Rt					1,023								
20+189 Rt							1						
20+213 Rt							1						
20+426 Rt							1						
20+448 Rt							1						
Sub - Totals Carried Forward:	343		38		1,637		11		0				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	m2 (P)		m (P)		m (P)		each (P)		m (P)				
ITEM No.	12		13		14		15		16				
Reference													
												CHKD. _____	
												APPR. _____	
												DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
Contract No. 2021-6051

SHEET
11

Location and Position	Removal of Asphalt Pavement [Full Depth], [Surface]	Removal of Pipes and Culverts [Concrete Arch]		Removal of Cable Guide Rail [3 Cable]		Removal of Anchor Blocks		Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]				References
Sub - Totals Brought Forward:	343	38		1,637		11		0				
20+641 Rt						1						
20+662 Rt						1						
20+780 - 20+813 Rt - Lt								33				
20+813 - 20+820 Lt								7				
20+813 - 20+820 Lt								7				
20+816 - 20+872 Rt	329											
20+876 - 20+883 Lt								7				
20+876 - 20+883 Lt								7				
20+883 - 20+915 Lt - Rt								32				
20+928 Rt						1						
Stage 3												
20+800 - 20+821 Lt	15											
20+874 - 20+917 Lt	23											
Stage 4												
20+685 - 20+819 ¹	1,543											
20+816 - 20+823 Rt	33											
20+867 - 20+872 Rt	25											
20+872 - 20+950 ¹	831											
Sub - Totals Carried Forward:	3,142	38		1,637		14		93				
	(P)		(P)		(P)		(P)		(P)			
TOTALS	3,142		38		1,637		14		93			
UNIT	m2 (P)		m (P)		m (P)		each (P)		m (P)			
ITEM No.	12		13		14		15		16			
Reference												
1. Step joints excluded												CHKD. _____
												APPR. _____
												DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
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SHEET
12

Location and Position	Rip-Rap (R-10)	Rip-Rap (R-50)	Geotextile (Class II) (Non-woven) (FOS 75-150 micron)	Protection System								References
Sub - Totals Brought Forward:												
HIGHWAY 17												
Coldwell Township												
Mink Creek Culvert (Site No. 48E-0023/C0)												
20+805, o/s 8.9m to 10.2m Rt	2		5									
20+807, o/s 8.9m to 11.0m Lt	3		6									
20+808 - 20+828, o/s 8.0m to 11.0m Rt	43											
20+824 - 20+830, o/s 8.0m to 10.0m Lt	18											
20+825 - 20+849, o/s 0.0m to 16.0m Lt & Rt		330										
20+840 - 20+865, o/s 0.0m to 20m Rt & 0.0m to 14.0m Lt		334										
20+860 - 20+868, o/s 8.0m to 10.0m Rt	20											
20+865 - 20+886, o/s 8.0m to 10.0m Lt	49											
Sub - Totals Carried Forward:												
	135	664	11	100 %								
	(P)	(P)	(P)									
TOTALS		799	11	100 %								
UNIT	m2 (P)	m2 (P)	m2 (P)	lump sum								
ITEM No.		17	18	19								
Reference												
												CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip-Rap, Geotextile and Protection

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
Contract No. 2021-6051

Location and Position	Small Signs, Ground Mounted, New		Small Signs, Removal		Temporary Traffic Control Signs								References
Sub - Totals Brought Forward:													
HIGHWAY 17													
Township of Coldwell													
Mink Creek Culvert (Site No. 48E-0023/C0)					100 %								
20+604 Rt; o/s 1.0m	1		1										
20+694 Rt; o/s 1.0m	1		1										
20+820 Rt; o/s 1.0m	1												
20+829 Rt; o/s 1.0m					1								
20+859 Lt; o/s 1.0m					1								
20+872 Lt; o/s 1.0m	1												
20+972 Rt; o/s 0.6m	1		1										
Sub - Totals Carried Forward:	5		5		100 %								
TOTALS	(P) 5		(P) 5		100 %								
UNIT	each (P)		each (P)		lump sum								
ITEM No.	23		24		25								
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Signs and Traffic Control

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00

Contract No. 2021-6051

SHEET
16

Location and Position	Portable Temporary Traffic Signals ¹	Flasher Beacons (Temporary) ²											References
Sub - Totals Brought Forward:													
Highway 17													
Twp of Coldwell													
Mink Creek Culvert													
PTTS1 Sta. 20+640; o/s 1.8 Rt ³	4	1											
PTTS1 Sta. 20+990; o/s 1.8 Lt ³	4	1											
TC-23 Sta. 21+320		1											
Sub - Totals Carried Forward:	2												
											(P)		
TOTALS	2	1											
UNIT	each (P)	each											
ITEM No.	26												
Reference													
1. Supplied by Contractor													

QUANTITIES - MISCELLANEOUS

W.P. No. 6022-19-00
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SHEET
18

Description	Single Rail SBGR, Relocation [OPSD 912.186]	Single Rail SBGR, TL-3 [OPSD 912.185]	Single Rail SBGR, TL-3 [OPSD 912.313]	Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]	Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.451]										
Sub - Totals Brought Forward:															
HIGHWAY 17															
Township of Coldwell															
Mink Creek Culvert (Site No. 48E-0023/C0)															
Stage 1															
20+995 - 21+399 Lt; o/s 6.3m								404							
Stage 2															
20+780 - 20+813; o/s 1.0m Rt - 2.2m Lt (Temporary)															
20+813 - 20+820 Lt; o/s 2.2m (Temporary)															
20+791 - 20+813 Lt; o/s 6.3m (Temporary)															
20+813 - 20+820 Lt; o/s 6.3m (Temporary)															
20+876 - 20+883 Lt; o/s 2.2m (Temporary)															
20+883 - 20+915; o/s 2.2m Lt - 1.0m Rt (Temporary)															
20+876 - 20+883 Lt; o/s 6.3m (Temporary)															
20+883 - 20+984 Lt; o/s 6.3m (Temporary)															
Stage 3															
19+940 - 20+063 Rt; o/s 6.3m															
20+063 - 20+807 Rt; o/s 6.3m															
Sub - Totals Carried Forward:															
	(P)	(P)	(P)	(P)	(P)										
TOTALS															
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)										
ITEM No.	29		30		31			32							
1. SBGR post installation in rock.											CHKD. _____ APPR. _____ DATE _____				

MINISTRY OF TRANSPORTATION - ONTARIO

Guide Rail

QUANTITIES - MISCELLANEOUS

W.P. No. 6022-19-00
Contract No. 2021-6051

SHEET
19

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Single Rail SBGR, Relocation [OPSD 912.186]	Single Rail SBGR, TL-3 [OPSD 912.185]	Single Rail SBGR, TL-3 [OPSD 912.313]	Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]	Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.451]
Sub - Totals Brought Forward:	64	65	28	1,330	0
20+807 - 20+822 Rt; o/s 6.3m					15
20+867 - 20+882 Rt; o/s 6.3m					15
20+882 - 20+913 Rt; o/s 6.3m				31	
Stage 4					
20+805 - 20+809 Lt; o/s 6.3m				4	
20+809 - 20+824 Lt; o/s 6.3m					15
20+869 - 20+884 Lt; o/s 6.3m					15
20+884 - 20+925 Lt; o/s 6.3m				41	
20+984 - 20+996 Lt; o/s 6.3m				12	
Sub - Totals Carried Forward:	64	65	28	1,418	60
		65	28		
	(P)	(P)	(P)	(P)	(P)
TOTALS	64		93	1,418	60
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)
ITEM No.	29		30	31	32

CHKD. _____
APPR. _____
DATE _____

Guide Rail

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
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Location and Position	Energy Attenuator - Temporary, Reduced Exposure [TL-3]	Energy Attenuator - Relocation, Reduced Exposure [TL-3]		SBEAT System [50:1 Flare]		SBEAT System, Relocation [50:1 Flare]	SBEAT System, Relocation [Parallel to Roadway]		TCB, Restraints Permitted, Category II		Temporary Construction Barrier, Relocation	References
Sub - Totals Brought Forward:												
HIGHWAY 17												
Township of Coldwell												
Mink Creek Culvert (Site No. 48E-0023/C0)												
Stage 1												
20+622 Rt; o/s 3.4m	1											
20+622 - 20+657 Rt; o/s 3.6m									35			
20+657 Rt; o/s 3.4m	1											
20+714 Lt; o/s 1.0m	1											
20+714 - 20+925; o/s 1.5m Rt - 1.5m Lt									211			
20+925 Lt; o/s 1.0m	1											
20+972 Lt; o/s 3.4m	1											
20+972 - 21+007 Lt; o/s 3.6m									35			
21+007 Lt; o/s 3.4m	1											
21+399 Lt; o/s 6.3m				1								
Stage 2												
20+780 Rt; o/s 1.0m (Temporary)				1								
20+791 Lt; o/s 6.3m (Temporary)				1								
20+915 Rt; o/s 1.0m (Temporary)				1								
Stage 3												
19+940 Rt; o/s 6.3m							1	1				
Sub - Totals Carried Forward:												
	6	0		4		0	1		281		0	
	(P)	(P)		(P)		(P)	(P)		(P)		(P)	
TOTALS												
UNIT	each (P)	each (P)		each (P)		each (P)	each (P)		m (P)		m (P)	
ITEM No.	33	34		35		36	37		38			
Reference												
1. SBEAT post installation in rock.												CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Energy Attenuators, SBEATs, and Temporary Construction Barriers

QUANTITIES - MISCELLANEOUS 1

W.P. No. 6022-19-00
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Location and Position	Energy Attenuator - Temporary, Reduced Exposure [TL-3]	Energy Attenuator - Relocation, Reduced Exposure [TL-3]		SBEAT System [50:1 Flare]		SBEAT System, Relocation [50:1 Flare]	SBEAT System, Relocation [Parallel to Roadway]		TCB, Restraints Permitted, Category II		Temporary Construction Barrier, Relocation	References
Sub - Totals Brought Forward:	6	0		4		0	1		281		0	
20+718 Lt; o/s 1.0m		1										
20+718 - 20+921; o/s 1.4m Lt - 1.2m Rt										203		
20+913 Rt; o/s 6.3m						1						
20+921 Lt; o/s 1.0m		1										
Stage 4												
20+805 Lt; o/s 6.3m						1						

QUANTITIES - STRUCTURE

W.P. No. 6022-19-00
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SHEET
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Structural I	Earth Excavation for Structure	Fabrication of Structural Steel	Delivery of Structural Steel	Erection of Structural Steel	Pedestrian Railing	Metal Traffic Barrier	Prestressed Concrete Box Girders Fabrication	Prestressed Concrete Box Girders Delivery	Prestressed Concrete Box Girders Installation	Coating New Structural Steel	Environmental Protection During Coating of Structural Steel and Steel Railing Systems	Bridge Deck Waterproofing				References	
LUMP SUM																	
HIGHWAY 17 Township of Coldwell																	
Mink Creek Culvert (Site No. 48E-0023/C0)	5,746																
Mink Creek Culvert (Site No. 48E-0023/C0)		100 %															
Mink Creek Culvert (Site No. 48E-0023/C0)			100 %														
Mink Creek Culvert (Site No. 48E-0023/C0)				100 %													
Mink Creek Culvert (Site No. 48E-0023/C0)					57												
Mink Creek Culvert (Site No. 48E-0023/C0)						90											
Mink Creek Culvert (Site No. 48E-0023/C0)							100 %										
Mink Creek Culvert (Site No. 48E-0023/C0)								100 %									
Mink Creek Culvert (Site No. 48E-0023/C0)									100 %								
Mink Creek Culvert (Site No. 48E-0023/C0)										100 %							
Mink Creek Culvert (Site No. 48E-0023/C0)											100 %						
Mink Creek Culvert (Site No. 48E-0023/C0)												100 %					
Mink Creek Culvert (Site No. 48E-0023/C0)													100 %				
	5,746	100 %	100 %	100 %	57	90	100 %	100 %	100 %	100 %	100 %	100 %					
TOTALS	(P) 5,746	100 %	100 %	100 %	(P) 57	(P) 90	100 %	100 %	100 %	100 %	100 %	100 %					
UNIT	m3 (P)	lump sum	lump sum	lump sum	m (P)	m (P)	lump sum	lump sum	lump sum	lump sum	lump sum	lump sum					
ITEM No.	41	42	43	44	45	46	47	48	49	50	51	52					
Remarks:													CHKD. _____ APPR. _____ DATE _____				

MINISTRY OF TRANSPORTATION - ONTARIO

Structural I

QUANTITIES - STRUCTURE

W.P. No. 6022-19-00
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Structural II	Form and Fill Grooves	Membrane Reinforcement	Temporary Modular Bridge	Deck Joint Assemblies, Installation	Bearings - Elastomeric, Plain	Dowels into Concrete	Precast Concrete Bridge Elements, Fabrication	Precast Concrete Bridge Elements, Delivery	Precast Concrete Bridge Elements, Installation	Glass Fibre Reinforced Polymer Reinforcing Bar	Socketing Piles into Rock	Monitoring of Existing Structures for Barn Swallow Nests				References
LUMP SUM																
HIGHWAY 17																
Coldwell Township																
Mink Creek Culvert (Site No. 48E-0023/C0)	76.00															
Mink Creek Culvert (Site No. 48E-0023/C0)		363.20														
Mink Creek Culvert (Site No. 48E-0023/C0)			100 %													
Mink Creek Culvert (Site No. 48E-0023/C0)				100 %												
Mink Creek Culvert (Site No. 48E-0023/C0)					100 %											
Mink Creek Culvert (Site No. 48E-0023/C0)						18										
Mink Creek Culvert (Site No. 48E-0023/C0)							100 %									
Mink Creek Culvert (Site No. 48E-0023/C0)								100 %								
Mink Creek Culvert (Site No. 48E-0023/C0)									100 %							
Mink Creek Culvert (Site No. 48E-0023/C0)										100 %						
Mink Creek Culvert (Site No. 48E-0023/C0)											16					
Mink Creek Culvert (Site No. 48E-0023/C0)												100 %				
	76.00	363.20	100 %	100 %	100 %	18	100 %	100 %	100 %	100 %	16	100 %				
TOTALS	(P) 76.00	(P) 363.20	100 %	100 %	100 %	18	100 %	100 %	100 %	100 %	16	100 %				
UNIT	m (P)	m (P)	lump sum	lump sum	lump sum	each (P)	lump sum	lump sum	lump sum	lump sum	each	lump sum				
ITEM No.	53	54	55	56	57	58	59	60	61	62	63	64				
Remarks:													CHKD. _____			
													APPR. _____			
													DATE _____			

MINISTRY OF TRANSPORTATION - ONTARIO

Structural II

