

QUANTITY SHEETS

CONTRACT No. 2023-4010

BOOK 1 of 1

INDEX

W.P. No. 4044-22-00
Contract No. 2023-4010

Sheet No.	Description
	CONTRACT DRAWINGS BOOK 1 OF 2
	GRADING
	Cover Sheet
	Key Plan
	Index
01	NMS Delineation
02 - 04	Alignments
05 - 06	Construction Staging
07	Removals
08	Pavement Data
09	New Construction
10	Profiles
11 - 12	Pavement Markings and Signs
13 - 17	Typical Sections
18 - 22	Miscellaneous Details
23 - 24	Erosion and Sediment Control
25	Soils Data
26 - 27	Landscape
	SITE ELECTRICAL
28	Electrical Layout
29	Wiring Diagram
30	Non-Standard Details

Sheet No.	Description
	CONTRACT DRAWINGS BOOK 2 OF 2
	BUILDINGS AND FACILITIES
	Index
31 - 50	Structural
51 - 81	Architectural
82 - 91	Mechanical
92 - 111	Electrical
112 - 113	Septic System
	QUANTITIES SHEETS BOOK 1 OF 1
1 - 24	Site Works
25 - 35	Site Electrical
36 - 37	Buildings and NSTI
38	Bonds

QUANTITIES - GRADING

W.P. No. 4044-22-00
Contract No. 2023-4010

Description	Clearing	Reference	Grubbing	Reference															
Sub - Totals Brought Forward:																			
FENELON FALLS MPY																			
GLENARM ROAD																			
9+171 - 9+201; RT	427		427																
9+294 - 9+342; RT	608		608																
Sub - Totals Carried Forward:					1,035		1,035												
TOTALS					(P) 1,035		(P) 1,035												
UNIT					m2 (P)		m2 (P)												
ITEM No.					1		2												

MINISTRY OF TRANSPORTATION - ONTARIO

Clearing and Grubbing

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

Reference

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - GRADING

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
2

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Earth Excavation (Grading)	Reference	Earth Fill Available	Reference	Earth Fill Required	Excess Earth									
Sub - Totals Brought Forward:															
FENELON FALLS MPY						1 1,535.00									
MPY SITE															
CUT/FILL	2,254		2,254		11,191										
STRIPPING	5,999														
STORMWATER MANAGEMENT POND WITH MAINTENANCE ACCESS															
CUT/FILL	51		51		2,835										
STRIPPING	1,410														
VEHICLE MAINTENANCE BUILDING STRUCTURE EXCAVATION															
CUT/FILL			2 4,744												
STRIPPING	496														
MATERIAL STORAGE BUILDING STRUCTURE EXCAVATION															
CUT/FILL			3 7,819												
STRIPPING	754														
AUXILARY STORAGE BUILDING STRUCTURE EXCAVATION															
CUT/FILL			4 693												
STRIPPING	111														
Sub - Totals Carried Forward:															
	11,075														

(P)															
TOTALS	11,075		15,561		14,026	1,535.0									
UNIT	m3 (P)		m3		m3	m3									
ITEM No.	3														

Total Stripping		8768	Remarks: Volume adjustment factor for earth have been applied to quantities shown. 1. Excess earth to remain onsite as per details in contract documents 2. Removed under Structure Excavation Item 3. Removed under Structure Excavation Item 4. Removed under Structure Excavation Item	Reference												
Stripping Available	80%	7014														
Top Soil Required		3684														
Stripping Balance		3330														

CHKD. _____
APPR. _____
DATE _____

Grading

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	Granular Sealing (m2) [Machine Sprayed] [Sealant Type III]	Tack Coat [Binder]												References
Sub - Totals Brought Forward:														
FENELON FALLS MPY														
MPY Site	625		9,472											
Material Storage Building			129											
Secure Storage Area			22											
Sub - Totals Carried Forward:	625		9,623											
TOTALS	(P) 625		(P) 9,623											
UNIT	m2 (P)		m2 (P)											
ITEM No.	4		5											
Reference														

MINISTRY OF TRANSPORTATION - ONTARIO

Granular Sealing and Tack Coat

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
4

Description	Superpave 12.5 [Surface]	Superpave 19.0 [Binder]																References
Sub - Totals Brought Forward:																		
FENELON FALLS MPY																		
MPY Site (Including Entrance)	1,140	1,140																
Material Storage Building	129	129																
Secure Storage Area	22	22																
Sub - Totals Carried Forward:	1,291	1,291																
TOTALS	1,291	1,291																
UNIT	t	t																
ITEM No.	6	7																
Reference																		
Remarks:																	CHKD. _____ APPR. _____ DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
6

Location and Position	Concrete Sidewalk [150mm]		Tactile Walking Surface Indicators for Concrete Sidewalk Ramps		Concrete Curb and Gutter [OPSD 600.110] [Straight]	Concrete Curb and Gutter [OPSD 600.110] [Circular]							References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
Adminstrative Space	236		1		84	9							
Auxiliary Storage Building	51												
Sub - Totals Carried Forward:													
	287		1		84	9							
	(P)		(P)		(P)	(P)							
TOTALS	287		1		84	9							
UNIT	m2 (P)		each set (P)		m (P)	m (P)							
ITEM No.	12		13			14							
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

Concrete Sidewalk and Curb

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	Interlocking Concrete Pavers [Turfstone Paver],[100 mm]		Clear Stone		200mm mm Pipe Subdrain [Perforated Class 1 Non-Woven 75-150um 19mm Clearstone]		Outlet to Structure No.		CCTV Inspection			References
Sub - Totals Brought Forward:												
FENELON FALLS MPY												
Vehicle Maintenance Garage					120		1		22			
Material Storage Building					165		2		21			
Auxiliary Storage Building					50							
Stormwater Management Pond	1	137							16			
MPY ENTRANCE MUD MAT												
50mm Clear Stone			45									
150mm Clear Stone			45									
Sub - Totals Carried Forward:		137	90		335				59			

MINISTRY OF TRANSPORTATION - ONTARIO

	(P)		(P)			(P)							
TOTALS	137		90		335		3		59				
UNIT	m2 (P)		t		m (P)		each		m				
ITEM No.	15		16		17				18				
Reference													

1. Permacon Turfstone Paver 100 or Contract Service Administrator Approved Equivalent

CHKD. _____
APPR. _____
DATE _____

Clear Stone and Subdrain

QUANTITIES - DRAINAGE, MANHOLES, CATCH BASINS AND DITCH INLETS

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	Str No	Station	Offset CL Grate or Cover	Type of Structure Std No	New Grate Std No	Slope of Grate	Top of Grate Elevation	Low Invert Elevation	Depth of Structure	600 mm x 1200 mm Manholes Catch Basins and Ditch Inlets	1200 mm Manholes Catch Basins and Ditch Inlets								References	
Sub - Totals Brought Forward:																				
FENELON FALLS MPY																				
MPY BASELINE 1																				
	2	1+195	11.0m LT	701.010	401.010		273.441	271.630	2.1		1									
MPY BASELINE 2																				
	1	2+025	14.4m LT	701.010	401.010		273.320	271.570	2.1		1									
	3	2+111	49.1m LT	705.040	403.010	2:1	270.250	269.500	1.4	1										
Sub - Totals Carried Forward:										1	2									
										(P)	(P)									
										TOTALS	1	2								
										UNIT	each (P)	each (P)								
										ITEM No.	19	20								
																		CHKD. _____		
																		APPR. _____		
																		DATE _____		

MINISTRY OF TRANSPORTATION - ONTARIO

Manholes and Catch Basins

QUANTITIES - SEWERS

W.P. No. 4044-22-00
Contract No. 2023-4010

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation		Depth to Pipe	Pipe Fill Material			Pipe Joints	200 mm Pipe Sewer 200+00 S 010 000 200+00 C 000 000	300 mm Pipe Sewer 300+00 S 010 000 300+00 C 000 000				References
		Upstream	Downstream		Bedding	Cover	Backfill							
Sub - Totals Brought Forward:														
	FENELON FALLS MPY													
	MPY BASELINE 1													
MSB to 02	15.0m LT - 11.0m LT	271.85	271.81	1.6	G	N	N	S	4					
02 to Outlet	11.0m LT - 5.6m RT	271.63	271.46	1.8	G	N	N	S	17					
	MPY BASELINE 2													
VMG to 01	16.5m RT - 14.4m RT	272.08	272.07	1.1	G	N	N	S	2					
01 to Outlet	14.4m RT - 5.5m LT	271.57	271.38	1.8	G	N	N	S	20					
03 to Outlet	49.1m RT - 65.2m RT	269.55	269.5	0.7	G	N	N	S		16				
Sub - Totals Carried Forward:														
									43	16				

MINISTRY OF TRANSPORTATION - ONTARIO

<p>Pipe Material Code - 6 digits defined as noted below:</p> <p>1st digit = Concrete 1 - 50-D 2 - 65-D 3 - 100-D 4 - 140-D</p> <p>2nd digit = PVC/PP 1 - PVC 2 - PP</p> <p>3rd digit = HDPE 1 - Open profile 2 - Closed profile</p> <p>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</p> <p>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.</p>	<p>Pipe Joints S - Soil tight F - Silt/Fines tight L - Leak tight Note: S joints is specified if no code is entered.</p> <p>Pipe Type S - Smooth inner wall pipe C - Corrugated inner wall pipe</p> <p>Depth to Pipe is from the surface at the upstream invert to top of base pipe opening unless otherwise stated.</p> <p>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</p> <p>Notes: N applies to cover and backfill only. 1 letter code specifies material for all pipes. 2 letter codes specify fill materials for rigid and flexible pipes respectively. G for bedding and N for cover and backfill are specified if no code is entered. Embedment material for flexible pipes specified in bedding material column.</p>	<table border="1"> <tr> <td></td> <td align="center">(P)</td> <td align="center">(P)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTALS</td> <td align="center">43</td> <td align="center">16</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UNIT</td> <td align="center">m (P)</td> <td align="center">m (P)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ITEM No.</td> <td align="center">21</td> <td align="center">22</td> <td></td> <td></td> <td></td> </tr> </table>			(P)	(P)				TOTALS	43	16				UNIT	m (P)	m (P)				ITEM No.	21	22				<p>CHKD. _____</p> <p>APPR. _____</p> <p>DATE _____</p>	
			(P)	(P)																									
		TOTALS	43	16																									
UNIT	m (P)	m (P)																											
ITEM No.	21	22																											

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00

Contract No. 2023-4010

Location and Position	Concrete Appurtenances												References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
Stormwater Management Pond Outlet	4.30												
Sub - Totals Carried Forward:	4.30												
(P)													
TOTALS	4.3												
UNIT	m3 (P)												
ITEM No.	23												
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

CHKD. _____
APPR. _____
DATE _____

Concrete Headwall

QUANTITIES - PIPE CULVERTS

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
11

Culvert No	Station	Location and Position	Ext		Skew No	End Finish	Depth to Pipe	Pipe Fill Material			Pipe Joints	Treatment	Inv Elev		500 mm Pipe Culvert 500+00 S 000 000 500+00 C 000 111	600 mm Pipe Culvert 600+00 S 000 000 600+00 C 000 100	600 mm Pipe Culvert 600+00 S 002 000 600+00 C 000 000	References
			Left	Right				Bedding	Cover	Backfill			Upstream	Downstream				
Sub - Totals Brought Forward:																		
		FENELON FALLS MPY																
		MPY ENTRANCE																
1	0+009	Crossing				0.99	G	N	N	F		272.08	271.97	25				
		BASELINE 2																
2	2+037	7.5m LT				0.81	G	N	N	F		270.73	270.68		15			
3	2+102	13.5m LT				1.02	G	N	N	F		270.530	270.450			26		
Sub - Totals Carried Forward:																		
														25	15	26		

MINISTRY OF TRANSPORTATION - ONTARIO

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 - 1.5 m

	(P)	(P)	(P)	
TOTALS	25	15	26	
UNIT	m (P)	m (P)	m (P)	
ITEM No.	24	25	26	

CHKD. _____
 APPR. _____
 DATE _____

Pipe Culverts

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	38mm Service Connection Pipe													References
Sub - Totals Brought Forward:														
FENELON FALLS MPY														
Stormwater Management Pond Outlet														
Well #1 Connection	10													
Well #2 Connection	25													

MINISTRY OF TRANSPORTATION - ONTARIO

CHKD. _____
APPR. _____
DATE _____

WellConnections

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00

Contract No. 2023-4010

Location and Position	Removal of Asphalt Pavement, Partial Depth [50mm]	Removal of Pipes and Culverts [CSP]	Removal of Fence [Wire Fence]								References
Sub - Totals Brought Forward:											
FENELON FALLS MPY											
GLENARM ROAD											
9+052 - 9+342; 32.1m RT - 15.4m RT				297							
9+180; 8.8m RT		11									
9+292 - 9+342; 3.8m RT	15										
Sub - Totals Carried Forward:	15	11	297								
TOTALS	(P) 15	(P) 11	(P) 297								
UNIT	m2 (P)	m (P)	m (P)								
ITEM No.	27	28	29								
Reference											
											CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Rip-Rap (R-10)	Rip-Rap (R-50)	Geotextile (Class I) (Non-woven) (FOS 75-150 micron)										References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
MPY BASELINE 1													
1+195; 4.1m RT - 11.0m RT	6		12										
MPY BASELINE 2													
2+025; 3.6m LT - 10.0m LT	2		8										
2+090; 17.8m LT - 21.2m LT	14		22										
2+099; 0m LT - 11.9m LT	70		90										
2+113; 5.3m LT - 8.8m LT	14		22										
2+155; 1.8m LT - 26.4m LT	225		270										
Mud Mat	90	90	240										
Stormwater Management Pond			1,500										
Stormwater Managment Pond Access			460										
Sub - Totals Carried Forward:	421	90	2,624										
	<u>421</u>	<u>90</u>											
	(P)	(P)	(P)										
TOTALS	421	511	2,624										
UNIT	m2 (P)	m2 (P)	m2 (P)										
ITEM No.		30	31										
Reference													

CHKD. _____
APPR. _____
DATE _____

Rip-Rap and Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
15

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Small Signs, Ground Mounted, New		Post Mounted Delineators Type A (125mm x 125mm)		Temporary Traffic Control Signs		Road Closing/ Restriction Notice Signs (TC-64)		Intermediate Signs, Ground Mounted, New			References
Sub - Totals Brought Forward:												
FENELON FALLS MPY												
MPY ENTRANCE												
0+024; 5.7m RT									1			
0+038; 9.0m RT	1											
0+081; 12.6m RT	1											
MPY BASELINE 1												
1+036 - 1+126; 0.5m RT			10									
1+077; 2.1m RT	1											
MPY BASELINE 2												
2+025; 0.3m RT	1											
2+052; 10.6m RT	1											
2+104; 1.5m RT	1											
2+112; 0.8m RT	1											
2+125; 0.3m RT	1											
Glenarm Road					100 %		1					
Highway 35							2					
Sub - Totals Carried Forward:	8		10		100 %		3		1			
TOTALS	(P) 8		(P) 10		100 %		(P) 3		(P) 1			
UNIT	each (P)		each (P)		lump sum		each (P)		each (P)			
ITEM No.	32		33		34		35		36			
Reference												

CHKD. _____
APPR. _____
DATE _____

Signs

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	Final Pavement Marking, Group 1 [Solid, Yellow] [10 cm]	Final Pavement Marking, Group 1 [Solid, White] [10 cm]	Final Pavement Marking, Group 3 [Solid, White] [60 cm]	Final Pavement Marking Symbols, Group 3 [White, Arrow]	Final Pavement Marking Symbols, Group 3 [White, Accessible]	References
Sub - Totals Brought Forward:						
FENELON FALLS MPY						
MPY ENTRANCE						
0+003 - 0+050; RT EP		65				
0+003 - 0+118; LT EP		129				
0+019 - 0+041; CL	22					
0+030; Directional				2		
0+070 - 0+106; CL	36					
0+070 - 0+106; Employee Parking		83				
0+080; Accessible					1	
0+086; Directional				2		
MPY BASELINE 1						
1+022 - 1+217; EP		195				
1+042 - 1+066; Equipment Parking		271				
1+045 - 1+066; Stop Blocks			126			
1+050; Directional				1		
1+085; Directional				1		
1+112; Directional				1		
1+183; Directional				1		
Sub - Totals Carried Forward:	58	743	126	8	1	
	(P)	(P)	(P)	(P)	(P)	
TOTALS						
UNIT	m (P)	m (P)	m (P)	each (P)	each (P)	
ITEM No.		37	38		39	
Reference						
						CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
17

Location and Position	<i>Final Pavement Marking, Group 1 [Solid, Yellow] [10 cm]</i>	<i>Final Pavement Marking, Group 1 [Solid, White] [10 cm]</i>		<i>Final Pavement Marking, Group 3 [Solid, White] [60 cm]</i>		<i>Final Pavement Marking Symbols, Group 3 [White, Arrow]</i>	<i>Final Pavement Marking Symbols, Group 3 [White, Accessible]</i>						References
Sub - Totals Brought Forward:	58	743		126		8	1						
FENELON FALLS MPY													
MPY BASELINE 2													
2+000 - 2+160; EP		160											
2+132; Directional						1							
Sub - Totals Carried Forward:	58	903		126		9	1						
	58	903				9	1						
	(P)	(P)		(P)		(P)	(P)						
TOTALS		961		126			10						
UNIT	m (P)	m (P)		m (P)		each (P)	each (P)						
ITEM No.		37		38			39						
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	Highway Fence		Brace Panels		Chain-Link Fence [Top Rail, 2.4m Height]		Gates						References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
Outdoor Secure Storage					45		1						
GLENARM ROAD													
16.2 m to 31.54 m RT	266												
31.5 m RT			1										
30.0 m RT			2										
29.7 m RT			2										
16.2 m RT			2										
18.8 m RT			1										
16.3 m to 27.7 m RT	34												
18.8 m RT			1										
16.3 m RT			2										
27.6 m RT			2										
27.7 m RT			1										
Sub - Totals Carried Forward:													
	300		14		45		1						
TOTALS	(P) 300		(P) 14		(P) 45		(P) 1						
UNIT	m (P)		each (P)		m (P)		each (P)						
ITEM No.	40		41		42		43						
Reference													
1. GATE SHALL BE A SLIDING GATE AS SHOWN IN THE CONTRACT DRAWINGS.												CHKD. _____ APPR. _____ DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

Fencing

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
 Contract No. 2023-4010

Location and Position	Bollards [Multiple Drawings]	Ramp Closure Gates	Concrete in Ramp Closure Gate Support Footings												References																																																																																
Sub - Totals Brought Forward:																																																																																															
FENELON FALLS MPY																																																																																															
Material Storage Building	12																																																																																														
Vehicle Maintenance Garage	18																																																																																														
Fuel Pad	18																																																																																														
Auxiliary Storage Building	2																																																																																														
Septic Tanks	2																																																																																														
Propane Tank	14																																																																																														
Outdoor Secure Storage																																																																																															
MPY ENTRANCE																																																																																															
0+019		2		2																																																																																											
Sub - Totals Carried Forward:	66	2	2																																																																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td align="center" colspan="2">(P)</td> <td align="center" colspan="2">(P)</td> <td align="center" colspan="2">(P)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>TOTALS</td> <td align="center">66</td> <td></td> <td align="center">2</td> <td></td> <td align="center">2</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>UNIT</td> <td align="center">each (P)</td> <td></td> <td align="center">each (P)</td> <td></td> <td align="center">each (P)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>ITEM No.</td> <td align="center">44</td> <td></td> <td align="center">45</td> <td></td> <td align="center">46</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Reference</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																(P)		(P)		(P)												TOTALS	66		2		2											UNIT	each (P)		each (P)		each (P)											ITEM No.	44		45		46											Reference															
(P)		(P)		(P)																																																																																											
TOTALS	66		2		2																																																																																										
UNIT	each (P)		each (P)		each (P)																																																																																										
ITEM No.	44		45		46																																																																																										
Reference																																																																																															

MINISTRY OF TRANSPORTATION - ONTARIO

CHKD. _____
 APPR. _____
 DATE _____

Site Protection

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	<i>Topsail from Stockpiles</i>		<i>Seed [Salt Tolerant Mix]</i>	<i>Seed [Modified Native Standard Roadside Mix]</i>									References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
MPY Site	3,684		8,061	2,000									
Sub - Totals Carried Forward:	3,684		8,061	2,000									
			8,061 (P)	2,000 (M)									
TOTALS	3,684			10,061									
UNIT	m3		m2 (P)	m2 (P)									
ITEM No.	47			48									
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Topsail and Seed

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
21

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	<i>Fibre Roll Flow Check Dams</i>		<i>Rock Flow Check Dams</i>		<i>Light-Duty Sediment Barriers</i>		<i>Fibre Roll Barriers</i>		<i>Heavy-Duty Sediment Barriers</i>				References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
GLENARM ROAD													
9+142 - 9+153; 108.6m RT to 191m RT									7				
9+295; RT	1												
9+311 - 9+341; 118m RT - 131.3m RT					37								
9+318 - 9+341; 15.8m RT - 15.9m RT					29								
MPY Entrance							61						
0+016 - 0+045; 5.7m RT - 11.5m RT					31								
0+016 - 0+051; 5.7m LT - 7.4m LT					36								
0+016 - 0+118; 29.5m LT					103								
0+016; LT	1												
0+061; LT	1												
0+084; LT	1												
0+103; LT	1												
MPY BASELINE 1													
1+006 - 1+219; 11.5m RT - 34.1m RT									246				
1+021; RT	1												
1+089; RT	1												
1+114; RT				1									
Sub - Totals Carried Forward:													
	7		1		236		61		253				
	(P)		(P)		(P)		(P)		(P)				
TOTALS													
UNIT	each (P)		each (P)		m (P)		m (P)		m (P)				
ITEM No.	49		50		51		52		53				
Reference													

CHKD. _____
APPR. _____
DATE _____

Erosion and Sediment Control

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
22

Location and Position	<i>Fibre Roll Flow Check Dams</i>	<i>Rock Flow Check Dams</i>	<i>Light-Duty Sediment Barriers</i>	<i>Fibre Roll Barriers</i>	<i>Heavy-Duty Sediment Barriers</i>		References
Sub - Totals Brought Forward:	7	1	236	61	253		
FENELON FALLS							
MPY BASELINE 1							
1+137; RT	1						
1+175; RT	1						
1+197; RT	1						
MPY BASELINE 2							
0+000 - 2+016; 12.5m LT - 12.9m LT			17				
2+002	1						
2+016 - 2+157; 12.5m LT - 82.0m LT					188		
2+031		1					
2+084	1						
2+141	1						
2+154		1					
Sub - Totals Carried Forward:	13	3	253	61	441		
TOTALS	(P) 13	(P) 3	(P) 253	(P) 61	(P) 441		
UNIT	each (P)	each (P)	m (P)	m (P)	m (P)		
ITEM No.	49	50	51	52	53		
Reference							

MINISTRY OF TRANSPORTATION - ONTARIO

Erosion and Sediment Control

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
23

Location and Position	Shrub, 600 mm Height [Rhus Typhina]												References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
MPY Site	13												
Sub - Totals Carried Forward:	13												
(P)													
TOTALS	13												
UNIT	each (P)												
ITEM No.	54												
Reference													
<p align="right">CHKD. _____ APPR. _____ DATE _____</p>													<p>LANDSCAPE - SHRUBS</p>

MINISTRY OF TRANSPORTATION - ONTARIO

Landscape - Shrubs

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

Location and Position	Coniferous Tree, 2.0 m Height [Juniperus Virginiana]	Coniferous Tree, 2.0 m Height [Picea Glauca]	Coniferous Tree, 2.0 m Height [Pinus Strobus]		Deciduous Tree, 50 mm Caliper [Amelanchier Laevis]		Deciduous Tree, 60 mm Caliper [Acer Rubrum]	Deciduous Tree, 60 mm Caliper [Acer Saccharum]	Deciduous Tree, 60 mm Caliper [Celtis Occidentalis]	Deciduous Tree, 60 mm Caliper [Tilia Americana]	Deciduous Tree, 60 mm Caliper [Quercus Alba]		References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
MPY Site	7	12	20		8		13	6	10	20	10		
Sub - Totals Carried Forward:	7	12	20		8		13	6	10	20	10		
	(P) 7	(P) 12	(P) 20		(P) 8		(P) 13	(P) 6	(P) 10	(P) 20	(P) 10		
TOTALS		39			8		59						
UNIT	each (P)	each (P)	each (P)		each (P)		each (P)	each (P)	each (P)	each (P)	each (P)		
ITEM No.		55			56		57						
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - ELECTRICAL MAINTENANCE HOLES AND HANDHOLES

Location	Maintenance Hole No. or Handhole No.	Station	Offset (m) to CL of Structure (Note 1)	Depth (m)	Elevations				Electrical Maintenance Holes [OPSD 2111.050]	Electrical Maintenance Holes [OPSD 2111.040]	Electrical Handholes [600 mm x 600 mm], [OPSD 2112.040]	Elec Chamber Drains [OPSD 2116.010], [Drain to Drainage Pocket]	Chamber Cover [OPSD 401.010 Type A]	Chamber Cover [OPSD 401.030]					
					Top of Cover		Drain Invert												
Sub - Totals Brought Forward:																			
Glenarm Road	MH1	9+186.4	17.3							1		3	1						
Patrol yard	MH2	1+078.6	1.6							1		3	1						
Patrol yard	MH3	1+016	4							1		3	1						
Patrol yard	MH4	0+046.1	8.6							1		3	1						
Patrol yard	MH5	0+088.6	11.4							1		3	1						
Patrol yard	MH6	0+092	11.3					1				3	1						
Patrol yard	MH7	2+055.3	2.9							1		3	1						
Patrol yard	MH8	2+097.7	3.5							1		3		1					
Patrol yard	PHH1	1+184.1	1.5								1		1						
Patrol yard	PHH2	1+084	1.6								1		1						
Patrol yard	PHH3	1+013.5	5.2								1		1						
Patrol yard	PHH4	0+043.5	8.5								1		1						
Patrol yard	CHH1	0+095.8	11.3								1		1						
Patrol yard	CHH2	2+057.7	4.4								1		1						
Patrol yard	CHH3	2+098.8	7.4								1			1					
Patrol yard	CHH4	1+182.6	3.1								1		1						
Patrol yard	CHH5	1+090.6	1.6								1		1						
Patrol yard	CHH6	1+018.1	2.7								1		1						
Patrol yard	CHH7	0+049.4	11.1								1		1						
Patrol yard	CHH8	1+151.2	18.8								1		1						
Sub - Totals Carried Forward:																			
									1	7	12	24							
									1	7									
									(P)	(P)	(P)	(P)							
TOTALS										8	12	24	18	2					
UNIT									each (P)	each (P)	each (P)	m (P)	each	each					
ITEM No.										58	59	60							

MINISTRY OF TRANSPORTATION - ONTARIO

Electrical Maintenance Holes and Handholes

Remarks:

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

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00

Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	50 mm	100 mm	Rigid Ducts, Direct Buried	50 mm	100 mm	Cable Brick	#2/0 AWG, High Voltage Cable, in Ducts	#600 KCMIL AWG, Low Voltage Cables, in Ducts	#400 KCMIL AWG, Low Voltage Cables, in Ducts	#4/0 AWG, Low Voltage Cables, in Ducts	#3/0 AWG, Low Voltage Cables, in Ducts	#2/0 AWG, Low Voltage Cables, in Ducts
Sub - Totals Brought Forward:																
Patrol yard	UPC101	27	101	27		270						216	108	54	81	162
Patrol yard	UPC101 - MH5	3					3		6			12				
Patrol yard	UPC101 - MH6	3					3		24			12	12	6	9	18
Patrol yard	Building - CHH1	27	102	27		108										
Patrol yard	MH6 - Ref 1	9					9	9	72			36	36	18	27	54
Patrol yard	CHH1 - Ref 1	4					4		8							
Patrol yard	Ref 1 - Ref 2	37					37	37	370			148	148	74	111	148
Patrol yard	Ref 2 - WP-1	13	103	13		26										
Patrol yard	Ref 2 - P2	14					14	14	112			56	56	28	42	84
Patrol yard	P2 - Ref 3	30					30	30	240			120	120	60	90	180
Patrol yard	Ref 3 - MH7	4					4	4	28			16	16	8	12	24
Patrol yard	Ref 3 - CHH2	7					7		7							
Patrol yard	MH7 - Ref 4	25	104	25	50											
Patrol yard	Ref 4 - P100	6		6	6											
Patrol yard	Ref 4 - P101	6		6	6											
Patrol yard	CHH2 - Septic	4					4		4							
Patrol yard	MH7 - Septic	8					8		8						24	
Patrol yard	MH7 - Ref 5	6					6	12	36			24	24	12		36
Patrol yard	CHH2 - Ref 5	3					3		3							
Patrol yard	Ref 5 - Ref 6	7					7	14	42			28	28	14		42
Patrol yard	Ref 6 - P3	12					12	12								
Patrol yard	Ref 6 - Ref 7	33					33	33	231			132	132	66		198
Patrol yard	Ref 7 - MH8	9		9	9	54						36	36	18		54
Patrol yard	Ref 7 - CHH3	7		7		7										
Patrol yard	CHH3 - A.S.B	10		10		10										
Patrol yard	MH8 - A.S.B	5		5		10							20			
Sub - Totals Carried Forward:				135	71	485	184	165	1,191	0	0	836	736	358	396	1,000

(P) (P) (P) (P) (P) (P) (P) (P) (P)

TOTALS																
UNIT																
ITEM No.																

Remarks: _____

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	#1/0 AWG, Low Voltage Cables, in Ducts	#3 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#8 AWG, Insulated Ground Wires	#6 AWG, Insulated Ground Wires	#4 AWG, Insulated Ground Wires	#3 AWG, Insulated Ground Wires	#2 AWG, Insulated Ground Wires				
Sub - Totals Brought Forward:																
Patrol yard	UPC101	27	101	162	135	513	108		81	27	27	54				
Patrol yard	UPC101 - MH5	3										3				
Patrol yard	UPC101 - MH6	3		18	15	57	12		9	3	3	3				
Patrol yard	Building - CHH1	27	102													
Patrol yard	MH6 - Ref 1	9		54		135		9	27	9	9	9				
Patrol yard	CHH1 - Ref 1	4														
Patrol yard	Ref 1 - Ref 2	37		222		555		37	111	37	37	37				
Patrol yard	Ref 2 - WP-1	13	103			39		13								
Patrol yard	Ref 2 - P2	14		84		168			42	14	14	14				
Patrol yard	P2 - Ref 3	30		180		360			90	30	30	30				
Patrol yard	Ref 3 - MH7	4		24		48			12	4	4	4				
Patrol yard	Ref 3 - CHH2	7														
Patrol yard	MH7 - Ref 4	25	104			150			50							
Patrol yard	Ref 4 - P100	6				18			6							
Patrol yard	Ref 4 - P101	6				18			6							
Patrol yard	CHH2 - Septic	4														
Patrol yard	MH7 - Septic	8							8							
Patrol yard	MH7 - Ref 5	6		36		87			18	6	6	6				
Patrol yard	CHH2 - Ref 5	3														
Patrol yard	Ref 5 - Ref 6	7		42		98			21	7	7	7				
Patrol yard	Ref 6 - P3	12				96			12							
Patrol yard	Ref 6 - Ref 7	33		198		198			66	33	33	33				
Patrol yard	Ref 7 - MH8	9		54		54			18	9	9	9				
Patrol yard	Ref 7 - CHH3	7														
Patrol yard	CHH3 - A.S.B	10														
Patrol yard	MH8 - A.S.B	5									5					
Sub - Totals Carried Forward:				1,074	150	2,594	120	59	577	179	184	209				
				(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)				
ITEM No.									65							
Remarks:													CHKD. _____			
													APPR. _____			
													DATE _____			

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00

Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	50 mm	100 mm	Rigid Ducts, Direct Buried	50 mm	100 mm	Cable Brick	#2/0 AWG, High Voltage Cables, in Ducts	#600 KCMIL AWG, Low Voltage Cables, in Ducts	#400 KCMIL AWG, Low Voltage Cables, in Ducts	#4/0 AWG, Low Voltage Cables, in Ducts	#3/0 AWG, Low Voltage Cables, in Ducts	#2/0 AWG, Low Voltage Cables, in Ducts
Sub - Totals Brought Forward:				135	71	485	184	165	1,191	0	0	836	736	358	396	1,000
Patrol yard	CHH3 - Ref 9	7		7		7										
Patrol yard	CHH3 - Ref 8	8		8		8										
Patrol yard	MH8 - Ref 8	3		3		9										12
Patrol yard	MH8 - Ref 9	5		5		20						20		10		10
Patrol yard	Ref 9 - M.S.B	45	106	45		225						180		90		90
Patrol yard	Ref 8 - Fuel Pad	20	105	20		80										80
Patrol yard	MH8 - Ref 10	12		12	12	12										
Patrol yard	CHH3 - Ref 10	12		12		12										
Patrol yard	Ref 10 - P4	5					5	5	10							
Patrol yard	P4 - P5	37					37	37	74							
Patrol yard	P5 - P6	46					46	46	92							
Patrol yard	P6 - PHH1	9					9	9	18							
Patrol yard	PHH1 - P7	31					31	31	62							
Patrol yard	P7 - Ref 11	8					8	8	16							
Patrol yard	Ref 11 - CHH8	20					20		20	20						
Patrol yard	CHH8 - TB	115					115		115	115						
Patrol yard	Ref 11 - Ref 12	25					25	25	75							
Patrol yard	Ref 12 - TX1	6					6		6			24				
Patrol yard	TX1 - MH1	29					29		29	29	116					
Patrol yard	MH1 - HP	12					12		12	12	48					
Patrol yard	Ref 12 - P8	14					14	14	56							
Patrol yard	P8 - CHH5	21					21	21	84							
Patrol yard	CHH5 - PHH2	8					8	8	32							
Patrol yard	PHH2 - MH2	7					7	14	28							
Patrol yard	MH2 - P9	15					15	30	60							
Patrol yard	P9 - Ref 13	28					28	56	112							
Patrol yard	Ref 13 - FIRE	5					5		10							
Sub - Totals Carried Forward:				247	83	858	625	469	2,102	176	164	1,432	736	458	396	1,192
				(P)	(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)	m (P)	m (P)
ITEM No.				61			62				63		64			
Remarks:														CHKD. _____		
														APPR. _____		
														DATE _____		

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	#1/0 AWG, Low Voltage Cables, in Ducts	#3 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#8 AWG, Insulated Ground Wires	#6 AWG, Insulated Ground Wires	#4 AWG, Insulated Ground Wires	#3 AWG, Insulated Ground Wires	#2 AWG, Insulated Ground Wires				
Sub - Totals Brought Forward:				1,074	150	2,594	120	59	577	179	184	209				
Patrol yard	CHH3 - Ref 9	7														
Patrol yard	CHH3 - Ref 8	8														
Patrol yard	MH8 - Ref 8	3							3							
Patrol yard	MH8 - Ref 9	5		20		10				5		5				
Patrol yard	Ref 9 - M.S.B	45	106	180		90				45		45				
Patrol yard	Ref 8 - Fuel Pad	20	105						20							
Patrol yard	MH8 - Ref 10	12				48			12							
Patrol yard	CHH3 - Ref 10	12														
Patrol yard	Ref 10 - P4	5				20			5							
Patrol yard	P4 - P5	37				148			37							
Patrol yard	P5 - P6	46				184			46							
Patrol yard	P6 - PHH1	9				36			9							
Patrol yard	PHH1 - P7	31				124			31							
Patrol yard	P7 - Ref 11	8				32			8							
Patrol yard	Ref 11 - CHH8	20														
Patrol yard	CHH8 - TB	115														
Patrol yard	Ref 11 - Ref 12	25				100			25							
Patrol yard	Ref 12 - TX1	6										6				
Patrol yard	TX1 - MH1	29														
Patrol yard	MH1 - HP	12														
Patrol yard	Ref 12 - P8	14				56			14			14				
Patrol yard	P8 - CHH5	21				84	42		21			21				
Patrol yard	CHH5 - PHH2	8				32	16		8			8				
Patrol yard	PHH2 - MH2	7				28	14		7			7				
Patrol yard	MH2 - P9	15				60	30		15			15				
Patrol yard	P9 - Ref 13	28				112	56		28			28				
Patrol yard	Ref 13 - FIRE	5			10			5								
Sub - Totals Carried Forward:				1,274	160	3,758	278	64	916	229	184	358				
				(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)				
ITEM No.									65							
Remarks:												CHKD. _____ APPR. _____ DATE _____				

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00

Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	50 mm	100 mm	Rigid Ducts, Direct Buried	50 mm	100 mm	Cable Brick	#2/0 AWG, High Voltage Cable, in Ducts	#600 KCMIL AWG, Low Voltage Cables, in Ducts	#400 KCMIL AWG, Low Voltage Cables, in Ducts	#4/0 AWG, Low Voltage Cables, in Ducts	#3/0 AWG, Low Voltage Cables, in Ducts	#2/0 AWG, Low Voltage Cables, in Ducts
Sub - Totals Brought Forward:				247	83	858	625	469	2,102	176	164	1,432	736	458	396	1,192
Patrol yard	Ref 13 - Ref 14	4					4	8	24			16				
Patrol yard	Ref 14 - WP-2	3					3		6							
Patrol yard	Ref 14 - Ref 15	7					7	14	56			28				
Patrol yard	Ref 15 - P10	4					4	4								
Patrol yard	P10 - Ref 16	3					3	3								
Patrol yard	Ref 15 - Ref 16	6					6	6	48			24				
Patrol yard	Ref 16 - CHH6	5					5		20							
Patrol yard	Ref 16 - PHH3	10					10	20	30							
Patrol yard	Ref 16 - MH3	7					7		7			28				
Patrol yard	CHH6 - UPC100	6					6		12							
Patrol yard	PHH3 - UPC100	3					3		12							
Patrol yard	MH3 - UPC100	4					4		8			16				
Patrol yard	PHH3 - P12	34					34	34								
Patrol yard	UPC100	20	100	20		160						80				
Patrol yard	UPC100 - MH4	4					4		8			16				
Patrol yard	UPC100 - CHH7	7					7		14							
Patrol yard	UPC100 - PHH4	4					4		16							
Patrol yard	PHH4 - P11	3					3	3								
Patrol yard	P11 - P13	30					30	30								
Patrol yard	PHH4 - Ref 17	11					11	11	33							
Patrol yard	MH4 - Ref 17	7					7		14			28				
Patrol yard	CHH7 - Ref 17	5					5		10							
Patrol yard	Ref 17 - Ref 18	30					30	30	210			120				
Patrol yard	Ref 18 - P1	3					3	3								
Patrol yard	Ref 18 - MH5	7					7		14			28				
Patrol yard	Ref 18 - CHH1	16					16		32							
Sub - Totals Carried Forward:				267	83	1,018	848	635	2,676	176	164	1,816	736	458	396	1,192

(P) (P) (P) (P) (P) (P) (P) (P) (P)

TOTALS																
UNIT																
ITEM No.																

Remarks:

CHKD. _____
 APPR. _____
 DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	#1/0 AWG, Low Voltage Cables, in Ducts	#3 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#8 AWG, Insulated Ground Wires	#6 AWG, Insulated Ground Wires	#4 AWG, Insulated Ground Wires	#3 AWG, Insulated Ground Wires	#2 AWG, Insulated Ground Wires					
Sub - Totals Brought Forward:				1,274	160	3,758	278	64	916	229	184	358					
Patrol yard	Ref 13 - Ref 14	4			8	16	8	4	8			4					
Patrol yard	Ref 14 - WP-2	3			9			3									
Patrol yard	Ref 14 - Ref 15	7			35	28	14	14	14			7					
Patrol yard	Ref 15 - P10	4				16			4								
Patrol yard	P10 - Ref 16	3				12			3								
Patrol yard	Ref 15 - Ref 16	6			30		12	12	6			6					
Patrol yard	Ref 16 - CHH6	5															
Patrol yard	Ref 16 - PHH3	10			50	40	20	20	20								
Patrol yard	Ref 16 - MH3	7										7					
Patrol yard	CHH6 - UPC100	6															
Patrol yard	PHH3 - UPC100	3			15		6		6								
Patrol yard	MH3 - UPC100	4										4					
Patrol yard	PHH3 - P12	34				136			34								
Patrol yard	UPC100	20	100		100		40	20	20			20					
Patrol yard	UPC100 - MH4	4										4					
Patrol yard	UPC100 - CHH7	7															
Patrol yard	UPC100 - PHH4	4			20		8	4	4								
Patrol yard	PHH4 - P11	3				12	6		3								
Patrol yard	P11 - P13	30				120			30								
Patrol yard	PHH4 - Ref 17	11			55	44	44	11	22								
Patrol yard	MH4 - Ref 17	7										7					
Patrol yard	CHH7 - Ref 17	5															
Patrol yard	Ref 17 - Ref 18	30			150	120	120	30	60			30					
Patrol yard	Ref 18 - P1	3				12			3								
Patrol yard	Ref 18 - MH5	7										7					
Patrol yard	Ref 18 - CHH1	16															
Sub - Totals Carried Forward:				1,274	632	4,314	556	182	1,153	229	184	454					
				(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)					
ITEM No.									65								
Remarks:												CHKD. _____					
												APPR. _____					
												DATE _____					

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	Rigid Ducts, Concrete Encased	50 mm	100 mm	Rigid Ducts, Direct Buried	50 mm	100 mm	Cable Brick	#2/0 AWG, High Voltage Cable, in Ducts	#600 KCMIL AWG, Low Voltage Cables, in Ducts	#400 KCMIL AWG, Low Voltage Cables, in Ducts	#4/0 AWG, Low Voltage Cables, in Ducts	#3/0 AWG, Low Voltage Cables, in Ducts	#2/0 AWG, Low Voltage Cables, in Ducts	
Sub - Totals Brought Forward:				267	83	1,018	848	635	2,676	176	164	1,816	736	458	396	1,192	
Patrol yard	Ref 18 - MH6	12					12		36								
Patrol yard	P1 - MH6	8					8	8									
Sub - Totals Carried Forward:				267	83	1,018	868	643	2,712	176	164	1,816	736	458	396	1,192	
				(P)			(P)				(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS				267			868				164		11,514				
UNIT				m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)
ITEM No.				61			62				63		64				

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

Remarks:

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - RIGID DUCTS AND ASSOCIATED WIRING

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	From - To OR Station	Distance (m)	UPC No.	#1/0 AWG, Low Voltage Cables, in Ducts	#3 AWG, Low Voltage Cables, in Ducts	#4 AWG, Low Voltage Cables, in Ducts	#6 AWG, Low Voltage Cables, in Ducts	#8 AWG, Insulated Ground Wires	#6 AWG, Insulated Ground Wires	#4 AWG, Insulated Ground Wires	#3 AWG, Insulated Ground Wires	#2 AWG, Insulated Ground Wires				
Sub - Totals Brought Forward:				1,274	632	4,314	556	182	1,153	229	184	454				
Patrol yard	Ref 18 - MH6	12			60		48	12	24							
Patrol yard	P1 - MH6	8				32			8							
Sub - Totals Carried Forward:				1,274	692	4,346	604	194	1,185	229	184	454				
				1,274	692	4,346	604	194	1,185	229	184	454				
				(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)				
TOTALS									2,246							
UNIT				m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)				
ITEM No.									65							

MINISTRY OF TRANSPORTATION - ONTARIO

Rigid Ducts and Associated Wiring

Remarks:

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - POLE ASSEMBLIES AND FOOTINGS

W.P. No. 4044-22-00

Contract No. 2023-4010

Location	Pole No. or Footing No.	Station	Offset (m) to CL of Pole or CL of Footing (Note 1)	#6 AWG, Bare Ground Wires	Ground Electrodes [Rods]	12 m, Steel Poles, Base Mounted Round Type	1.5 m, Aluminum Poles, Base Mounted	Concrete Footings In Earth [OPSD 2200.011]	Concrete Footings In Earth [OPSD 2200.010]	Concrete Footings In Earth [OPSD 2200.041]	104 W LED Luminaire 347 V LED Luminaire	159 W LED Luminaire 347 V LED Luminaire	233 W LED Luminaire 347 V LED Luminaire	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole
Sub - Totals Brought Forward:															
Patrol Yard	P1	0+085.6	11.3	1	1	1		1					1	1	15
Patrol Yard	P2	2+022.4	1.5	1	1	1		1				1		1	15
Patrol Yard	P3	2+066.3	1.5			1		1					2	2	30
Patrol Yard	P4	2+111.1	1.5			1		1					1	1	15
Patrol Yard	P5	2+146.6	1.52			1		1					1	1	15
Patrol Yard	P6	1+189.6	1.5			1		1				1		1	15
Patrol Yard	P7	1+155.2	1.5	1	1	1		1					1	1	15
Patrol Yard	P8	1+110.3	1.5			1		1					1	1	15
Patrol Yard	P9	1+065.4	1.5			1		1					1	1	15
Patrol Yard	P10	1+024.8	1.5			1		1				1		1	15
Patrol Yard	P11	0+041.4	6.5			1			1			1		1	15
Patrol Yard	P12	0+017.6	11.1	1	1	1			1		1			1	15
Patrol Yard	P13	0+017.6	13.5	1	1	1			1		1			1	15
Patrol Yard	P100	2+062.5	21.9				1			1					
Patrol Yard	P101	2+050.1	22.1				1			1					
Patrol Yard	SPARE						1								
Sub - Totals Carried Forward:				5	5	13	3	10	3	2	2	4	8	14	210
								10	3	2	2	4	8		
				(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)		
TOTALS				5	5	13	3		15			14			
UNIT				m (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	m (P)
ITEM No.				65	66	67	68		69			71			

MINISTRY OF TRANSPORTATION - ONTARIO

Pole Assemblies and Footings

Remarks:

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

CHKD. _____
APPR. _____
DATE _____

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

W.P. No. 4044-22-00
Contract No. 2023-4010

Location	Location Code	Station	Offset (m) to CL of Structure/Equip't (Note 1)	Metering Provisions Yes or No	#4/0 AWG, Bare Ground Wires	Ground Electrodes [Rods]	Concrete Pads [Hydro STD]											
Sub - Totals Brought Forward:																		
Patrol Yard	TX1	1+125.9	4.4		22	4	1											
Sub - Totals Carried Forward:					22	4	1											
					(P)	(P)	(P)											
TOTALS					22	4	1											
UNIT					m (P)	each (P)	each (P)											
ITEM No.					65	66	70											

MINISTRY OF TRANSPORTATION - ONTARIO

Power Supply Equipment, Concrete Pads & Grounding

Remarks:

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

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00

Contract No. 2023-4010

SHEET
36

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	<i>Dewatering System</i>		<i>Earth Excavation for Structure</i>		<i>Water Well and Pump System</i>		<i>Utility Building</i>		<i>Garage/Administration Building</i>		<i>Supply and Installation of New Salt Storage Structure</i>		References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
Water Well and Pump System					100 %								
Auxiliary Storage Building	100 %		693				100 %						
Vehicle Maintenance Garage	100 %		4,744					100 %					
Material Storage Building	100 %		7,819							100 %			
Septic System													
Sub - Totals Carried Forward:	100 %		13,256		100 %		100 %		100 %		100 %		
(P)													
TOTALS	100 %		13,256		100 %		100 %		100 %		100 %		
UNIT	lump sum		m3 (P)		lump sum		lump sum		lump sum		lump sum		
ITEM No.	72		73		74		75		76		77		
Reference													

CHKD. _____
 APPR. _____
 DATE _____

Buildings and NSTI

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
 Contract No. 2023-4010

Location and Position	Septic System												References
Sub - Totals Brought Forward:													
FENELON FALLS MPY													
Water Well and Pump System													
Auxiliary Storage Building													
Vehicle Maintenance Garage													
Material Storage Building													
Septic System													
	100 %												
Sub - Totals Carried Forward:													
	100 %												
TOTALS	100 %												
UNIT	lump sum												
ITEM No.	78												
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

CHKD. _____
 APPR. _____
 DATE _____

Buildings and NSTI

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4044-22-00
Contract No. 2023-4010

SHEET
38

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Performance Bond	Labour and Material Payment Bond												References
Sub - Totals Brought Forward:														
FENELON FALLS MPY														
Contract	100 %	100 %												
Sub - Totals Carried Forward:	100 %	100 %												
TOTALS	100 %	100 %												
UNIT	lump sum	lump sum												
ITEM No.	79	80												
Reference														

CHKD. _____
APPR. _____
DATE _____

Bonds