

QUANTITIES SHEETS
CONTRACT NO. XXXX-XXXX
BOOK 1 OF 2

CENTRAL REGION
(90% COMPLETION RE-SUBMISSION)
OCTOBER 1, 2010

Ministry of Transportation



INDEX

W.P. No. 2005-07-00
Contract No.

[illegible][illegible]

DRAWING NAME:	DWGNAME	MODIFIED:	MODDATE	MOOTIME
CREATED:	CREATED			

MODDATE MODTIME

MODIFIED:

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
1

Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:													
Highway 404													
33+760 - 33+838 CL	5573					5573							
33+775 - 33+831 LT				777									
33+815 - 33+830 RT				260									
33+835 - 33+974 LT	568					568							
33+849 17.0 RT		1					1						
33+952 124.3 RT		1					1						
33+965 120.6 RT		1					1						
33+968 125.2 RT		1					1						
33+977 121.9 RT		1					1						
34+000 - 34+012 LT				180									
34+033 - 34+607 LT	3981					3981							
34+100 - 34+119 CL				1272									
34+601 - 34+963 CL	11581					11581							
34+817 - 35+018 CL	5418					5418							
34+817 - 35+014 LT				369									
34+821 23.2 RT		1					1						
34+848 8.6 LT		1					1						
34+861 3.9 LT		1					1						
Sub - Totals Carried Forward:	27121	8		2858		27121	8						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Clearing & Grubbing

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	27121	8		2858		27121	8						
34+866 1.5 LT		1					1						
34+881 - 34+891 RT	49					49							
34+885 3.9 RT		1					1						
34+895 8.8 RT		1					1						
34+905 13.7 RT		1					1						
35+908 13.2 RT		1					1						
34+912 14.1 RT, 19.7 RT		2					2						
34+914 46.7 RT		1					1						
34+915 41.0 RT		1					1						
34+917 21.8 RT		1					1						
34+925 - 35+018 LT				2384									
34+956 - 34+972 RT	69					69							
34+971 4.6 LT		1					1						
34+973 1.4 RT		1					1						
34+977 36.6 RT		1					1						
34+989 - 35+023 RT				369									
34+994 - 35+006 CL	65					65							
34+998 45.0 RT		1					1						
Sub - Totals Carried Forward:	27304	22		5611		27304	22						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	27304	22		5611		27304	22						
35+001 10.5 LT		1					1						
35+009 - 35+019 CL				62									
35+037 - 35+213 RT				1874									
35+213 - 35+305 RT	675					675							
35+333 35.8 RT		1					1						
35+336 38.3 RT		1					1						
35+352 37.1 RT		1					1						
35+359 37.7 RT		1					1						
35+378 38.0 RT		1					1						
35+380 38.1 RT		1					1						
35+382 38.4 RT		1					1						
35+509 - 35+581 RT	339					339							
35+842 - 36+105 LT				518									
35+844 - 36+264 CL	25379					25379							
35+846 - 36+110 RT				485									
36+000 - 36+264 CL				17322									
36+151 - 36+259 LT				203									
36+225 - 36+262 CL	261					261							
36+237 - 36+264 RT				36									
Sub - Totals Carried Forward:	53958	30		26111		53958	30						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	53958	30		26111		53958	30						
36+280 - 36+296 LT	111					111							
36+303 - 36+427 LT	1105					1105							
36+452 - 36+731 CL	21510					21510							
36+453 - 36+575 RT				1785									
36+456 - 36+678 RT				440									
36+872 - 36+918 LT	111					111							
36+927 - 36+941 LT	30					30							
36+955 - 36+961 LT	1					1							
37+264 - 37+740 CL	6108					6108							
37+609 - 37+625 LT	127					127							
37+631 52.1 LT		1					1						
37+747 - 37+831 CL	1221					1221							
37+915 - 38+038 CL	1430					1430							
37+990 - 38+015 LT	114					114							
37+994 - 38+041 LT				990									
38+040 - 38+060 RT	79					79							
38+041 - 38+079 RT				387									
38+061 - 38+099 RT	321					321							
Sub - Totals Carried Forward:	86226	31		29713		86226	31						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	86226	31		29713		86226	31						
38+128 - 38+561 RT				796									
38+130 - 38+584 RT	5014					5014							
38+154 - 38+594 CL				21527									
38+190 - 38+225 CL	242					242							
38+251 - 38+274 LT	92					97							
38+437 - 38+446 LT				46									
38+472 - 38+532 CL	231					231							
38+474 - 38+529 LT				1055									
38+652 2.4 LT		1					1						
S-N/S Ramp													
10+340 20.0 RT		1					1						
10+355 - 10+394 RT	369					369							
10+358 20.8 RT		1					1						
10+371 28.6 RT		1					1						
10+377 - 10+396 RT				87									
10+377 - 10+401 RT	136					136							
10+458 23.7 LT		1					1						
N-S Ramp													
Sub - Totals Carried Forward:	92310	36		53224		92315	36						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	92310	36		53224		92315	36						
10+853 - 10+883 RT				135									
10+857 - 10+879 RT	134					134							
Woodbine Ave.													
9+465 13.0 LT		1					1						
9+477 13.9 LT		1					1						
9+493 14.2 LT		1					1						
9+542 14.0 LT		1					1						
9+561 14.2 LT		1					1						
9+571 14.2 LT		1					1						
9+579 13.6 RT		1					1						
9+581 14.3 LT		1					1						
9+592 14.6 LT		1					1						
9+601 14.9 LT		1					1						
9+608 - 9+755 RT	1073					1073							
9+613 15.1 LT		1					1						
9+628 15.2 LT		1					1						
9+641 15.7 LT		1					1						
9+661 15.6 LT		1					1						
Sub - Totals Carried Forward:	93517	50		53359		93522	50						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	93517	50		53359		93522	50						
9+680 15.8 LT		1					1						
9+720 - 9+810 RT	1875					1875							
9+721 16.4 LT		1					1						
9+739 16.2 LT		1					1						
9+765 17.6 LT		1					1						
9+766 17.2 LT		1					1						
9+769 17.8 LT		1					1						
9+778 16.6 LT		1					1						
9+779 17.4 LT		1					1						
9+789 16.3 LT		1					1						
9+799 16.1 LT		1					1						
9+803 16.5 LT		1					1						
9+809 16.3 LT		1					1						
9+813 16.7 LT		1					1						
9+819 15.8 LT		1					1						
9+820 16.6 LT		1					1						
9+835 16.1 LT		1					1						
9+838 16.1 LT		1					1						
Sub - Totals Carried Forward:	95392	67		53359		95397	67						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	95392	67		53359		95397	67						
9+844 15.6 LT		1					1						
9+851 15.6 LT		1					1						
9+853 15.6 LT		1					1						
9+854 15.7 LT		1					1						
9+855 16.0 LT		1					1						
9+858 15.6 LT		1					1						
9+863 15.3 LT		1					1						
9+869 15.2 LT		1					1						
9+873 15.3 LT		1					1						
9+879 15.1 LT		1					1						
9+881 14.9 LT		1					1						
9+888 15.0 LT		1					1						
9+894 14.9 LT		1					1						
9+896 14.7 LT		1					1						
9+900 14.6 LT		2					2						
9+902 14.8 LT		1					1						
9+904 14.9 LT		1					1						
9+927 14.3 LT		1					1						
9+936 14.0 LT		1					1						
Sub - Totals Carried Forward:	95392	87		53359		95397	87						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

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Contract No.

Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	95392	87		53359		95397	87						
9+957 13.9 LT		1					1						
9+976 12.4 LT		1					1						
9+996 12.8 LT		1					1						
10+066 18.4 LT		1					1						
10+084 - 10+156 RT	66					66							
10+145 20.6 LT		1					1						
10+153 28.5 LT		1					1						
10+162 19.4 RT		1					1						
10+163 19.1 RT		1					1						
10+165 19.3 RT		1					1						
10+169 19.7 RT		1					1						
10+170 19.3 RT		2					2						
10+171 19.2 RT		2					2						
10+186 15.5 LT		1					1						
10+209 20.0 RT		1					1						
10+210 15.3 LT		1					1						
10+228 15.3 LT		1					1						
10+275 16.1 LT		1					1						
Sub - Totals Carried Forward:	95458	106		53359		95463	106						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Clearing & Grubbing

Contract No.

Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	95458	106		53359		95463	106						
10+293 16.5 LT		1					1						
10+309 16.8 LT		1					1						
10+326 17.0 LT		1					1						
10+334 - 10+350 LT	105					105							
10+374 17.6 LT		1					1						
10+395 18.1 LT		1					1						
10+412 18.0 LT		1					1						
10+434 18.6 LT		1					1						
10+457 19.1 LT		1					1						
10+479 19.1 LT		1					1						
10+500 19.5 LT		1					1						
Ravenshoe Rd.													
9+823 - 9+843 LT	32					32							
9+853 - 9+866 LT	10					10							
9+908 - 9+950 RT	133					133							
9+956 - 9+975 RT	31					31							
10+065 - 10+077 LT	18					18							
Boag Rd.													
Sub - Totals Carried Forward:	95787	116		53359		95792	116						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

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Location and Position	Clearing (m2)	Clearing (each)	Close Cut Clearing (m2)	Grubbing (m2)	Grubbing (each)							References
Sub - Totals Brought Forward:	95787	116	53359	95792	116							
9+719 9.0 LT		1			1							
9+730 8.1 RT		1			1							
9+733 10.5 RT		1			1							
9+741 - 9+754 RT	51			51								
9+804 - 9+811 RT	20			20								
9+823 8.3 RT		1			1							
9+868 10.4 RT		1			1							
9+897 - 9+927 RT	223			223								
9+940 - 9+949 RT	26			26								
9+972 - 10+022 RT			232									
10+050 - 10+069 RT	73			73								
10+092 13.1 LT		1			1							
10+098 9.2 RT		1			1							
10+099 9.1 RT		1			1							
10+117 9.4 RT		1			1							
10+127 9.1 RT		1			1							
10+132 9.2 RT		1			1							
10+142 9.5 RT		1			1							
Sub - Totals Carried Forward:	96180	128	53591	96185	128							
TOTALS	(P)	(P)	(P)	(P)	(P)							
UNIT	ha	each	ha	ha	each							
ITEM No.	1	2	3	4	5							
Reference												
												CHKD. _____ APPR. _____ DATE _____

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PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

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Location and Position	Clearing (m2)	Clearing (each)		Close Cut Clearing (m2)		Grubbing (m2)	Grubbing (each)						References
Sub - Totals Brought Forward:	96180	128		53591		96185	128						
10+149 9.1 RT		1					1						
10+152 9.3 RT		1					1						
10+154 11.2 LT		1					1						
10+158 9.3 RT		1					1						
10+160 10.9 LT		1					1						
10+163 9.6 RT		1					1						
10+168 9.1 RT		1					1						
10+173 - 10+182 LT	22					22							
10+175 9.8 RT		1					1						
10+180 9.0 RT		1					1						
10+183 9.1 RT		1					1						
10+187 9.2 RT		1					1						
10+204 9.0 RT		1					1						
10+209 9.7 RT		1					1						
10+218 9.2 RT		1					1						
10+417 - 10+471 RT	138					138							
Holborn Rd.													
9+885 - 9+940 RT	397					397							
Sub - Totals Carried Forward:	96737	142		53591		96742	142						
TOTALS	(P)	(P)		(P)		(P)	(P)						
UNIT	ha	each		ha		ha	each						
ITEM No.	1	2		3		4	5						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Clearing & Grubbing

Contract No.

[illegible]

90-02
PH-D-499
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - GRADING

W.P. No. 2005-07-00

Contract No.

SHEET
14

Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required		Earth Ditch Cleanout								
Sub - Totals Brought Forward:																
S-N/S Ramp																
10+326 - 10+700																
Cut/Fill	4067		4067			6812										
Stripping	3586															
N-S Ramp																
10+224 - 10+740																
Cut/Fill	2557		2557			8213										
Stripping	4974															
S-S Ramp																
10+010 - 10+057																
Cut/Fill	170		170			596										
Stripping	341															
Woodbine Ave.																
9+338 - 9+575																
East Widening																
Cut/Fill	622		622			0										
Stripping	457															
West Widening	3916		3916			66										
Cut/Fill	1173															
Stripping																
9+575 - 9+925																
East Widening																
Cut/Fill	1419		1419			0										
Stripping	1474															
Sub - Totals Carried Forward:																
	24756		12751			15687		0								
(P)																
(P)																
TOTALS																
UNIT	m3		m3			m3		m								
ITEM No.	6				-	-		7								
Remarks: Volume adjustment factor for earth have been applied to quantities shown.																
Total Stripping					Reference											
Stripping Available																
Top Soil Required																
Stripping Balance																
															CHKD. _____	
															APPR. _____	
															DATE _____	

Grading (Ramps, Woodbine/Ravenshoe/ Boag/Holborn)

QUANTITIES - GRADING

W.P. No. 2005-07-00

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Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required		Earth Ditch Cleanout								
Sub - Totals Brought Forward:	24756		12751			15687		0								
West Widening																
Cut/Fill	3928		3928			284										
Stripping	1860															
9+925 - 10+275																
East Widening																
Cut/Fill	1775		1775			686										
Stripping	1761															
West Widening																
Cut/Fill	2658		2658													
Stripping	1446															
10+275 - 10+625																
East Widening																
Cut/Fill	1818		1818			1136										
Stripping	1425															
West Widening																
Cut/Fill	13021		13021													
Stripping	1450															
10+625 - 10+790																
East Widening																
Cut/Fill	213		213			913										
Stripping	118															
West Widening																
Cut/Fill	143		143													
Stripping	140															
Ravenshoe Rd.																
9+251 - 9+550																
South Widening																
Cut/Fill	411		411			1031										
Sub - Totals Carried Forward:	56923		36718			19737		0								
(P)																
TOTALS								(P)								
UNIT	m3		m3			m3		m								
ITEM No.	6					-		7								
Total Stripping		Remarks: Volume adjustment factor for earth have been applied to quantities shown.														
Stripping Available		Reference														
Top Soil Required																
Stripping Balance																
CHKD. _____																
APPR. _____																
DATE _____																

QUANTITIES - GRADING

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Description	Earth Excavation (Grading)	Reference	Material Available		Reference	Fill Required		Earth Ditch Cleanout								
Sub - Totals Brought Forward:	56923		36718			19737		0								
Stripping	142															
North Widening																
Cut/Fill	1035		1035													
Stripping	433															
9+550 - 9+775																
South Widening																
Cut/Fill	456		456			642										
Stripping	198															
North Widening																
Cut/Fill	6323		6323													
Stripping	282															
9+775 - 10+115																
South Widening																
Cut/Fill	828		828			977										
Stripping	425															
North Widening																
Cut/Fill	1135		1135													
Stripping	466															
10+080 - 10+171 Lt.								91								
Boag Road																
9+700 - 10+100																
Cut/Fill	20745		20745													
Stripping	4030															
10+100 - 10+225																
Cut/Fill	1698		1698													
Stripping	930															
Sub - Totals Carried Forward:	96049		68938			21356		91								
<div>(P) (P)</div>																
TOTALS																
UNIT	m3		m3			m3		m								
ITEM No.	6					-		7								
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 _____																

SHEET
17

Contract No.

Description	Earth Excavation (Grading)	Reference	Material Available	Reference	Fill Required	Earth Ditch Cleanout										
Sub - Totals Brought Forward:	96049		68938		21356	91										
10+225 - 10+610 Lt. (Ditch Excavation)																
Cut/Fill	380		380		13											
Stripping	276															
Stormwater Management Ponds																
SWM Pond 6																
Cut/Fill	5252		5255		1687											
Stripping	5075															
SWM Pond 7																
Cut/Fill	5322		5322		2983											
Stripping	5516															
Holborn SWM Pond																
Cut/Fill	972		972		4814											
Stripping	4725															
SWM Pond 8																
Cut/Fill	38589		38589		112											
Stripping	13048															
SWM Pond 9																
Cut/Fill	3341		3341		13902											
Stripping	11366															
Commuter Parking Lot																
Cut/Fill	1		1		12395											
Stripping	1655															
Ditching																
Sub - Totals Carried Forward:	191567		122798		57262	91										
(P)		(P)														
TOTALS																
UNIT	m3		m3		m3	m										
ITEM No.	6				-	7										
Total Stripping		Remarks: Volume adjustment factor for earth have been applied to quantities shown.														
Stripping Available		Reference														
Top Soil Required																
Stripping Balance																
CHKD. _____																
APPR. _____																
DATE _____																

SHEET
18

Contract No.

[illegible]

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Granular Sealing (m2) [Machine Sprayed]	Granular Sealing (m2) [Hand Sprayed]											References
Sub - Totals Brought Forward:													
Highway 404 - NBL													
33+760 - 36+956 Rt. Shld.	5114												
33+760 - 36+920 Lt. Shld.	5056												
36+920 - 37+071 Lt. Shld.		242											
37+114 - 38+575 Lt. Shld.	2338												
37+118 - 38+575 Rt. Shld.	2331												
Highway 404 - SBL													
33+760 - 37+058 Rt. Shld.	5277												
33+760 - 37+062 Lt. Shld.	5283												
37+101 - 37+228 Rt. Shld.		203											
37+106 - 37+257 Lt. Shld.		242											
37+228 - 38+295 Rt. Shld.	1707												
37+257 - 38+720 Lt. Shld.	2341												
38+295 - 38+720 Rt. Shld.	680												
S-N/S Ramp													
10+325 - 10+679 Rt.	389												
10+325 - 10+694 Lt	406												
Sub - Totals Carried Forward:	30922	687											
	(P)	(H)											
TOTALS													
UNIT	m2	m2											
ITEM No.		8											
Reference													
													CHKD. _____ APPR. _____ DATE _____

Granular Sealing

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
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Location and Position	Granular Sealing (m2) [Machine Sprayed]	Granular Sealing (m2) [Hand Sprayed]											References
Sub - Totals Brought Forward:	30922	687											
N-S Ramp													
10+175 - 10+740 Rt.	622												
10+175 - 10+740 Lt.	622												
S-S Ramp													
10+010 - 10+057 Rt.	52												
10+010 - 10+057 Lt.	52												
Woodbine Ave.													
9+338 - 9+695 Rt.	1107												
9+338 - 9+690 Lt.	1091												
9+734 - 10+002 Lt.	831												
9+753 - 10+518 Rt.	2372												
10+010 - 10+494 Lt.	1500												
Ravenshoe Rd.													
9+251 - 9+615 Rt.	218												
9+251 - 9+576 Lt.	195												
9+694 - 10+115 Lt.	669												
9+722 - 10+115 Rt.	236												
Sub - Totals Carried Forward:	40489	687											
	40489	687											
	(P)	(H)											
TOTALS		41,176											
UNIT	m2	m2											
ITEM No.		8											
Reference													
													CHKD. _____ APPR. _____ DATE _____

Granular Sealing

SHEET
21

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[illegible]

SHEET
22

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Hot Mix and Granular (Holborn, Boag, Commuter Lot)

90-02
PH-D-505
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - HOT MIX AND GRANULAR															W.P. No. 2005-07-00		SHEET 23	
															Contract No.			
Description	Tack Coat [Upper Binder]	Tack Coat [Lower Binder]		Superpave 12.5 FC2 [40mm Surface]	Superpave 19.0 [60mm Upper Binder]	Superpave 25.0		Granular A [Base]	Granular A [Shoulder]	Granular B, Type 1 [Sub-Base]					References			
Sub - Totals Brought Forward:																		
S-N/S Ramp																		
10+325 - 10+700	3293	3293		3293	3293	3293		2195		10241								
Shoulders	1684			1684	1684				714									
N-S Ramp																		
10+253 - 10+740	5125	5125		5125	5125	5125		3047		14116								
Shoulders	1808			1808	1808				859									
S-S Ramp																		
10+010 - 10+057	227	227		227	227	227		203		953								
Shoulders	167			167	167				79									
Sub - Totals Carried Forward:																		
12304 8645 12304 12304 8645 5445 1652 25310																		
(P) (P) (P) (P) (P) 5445 1652																		
TOTALS		20,949		12,304	12,304	8,645			7,097	25,310								
UNIT	m2	m2		m2	m2	m2		t	t	t								
ITEM No.		9		14	15	16			17	18								
Reference																		
Remarks:																		
															CHKD. _____			
															APPR. _____			
															DATE _____			

Hot Mix and Granular (Ramps)

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
24

Location and Position	Concrete Pavement	Concrete in Sidewalk [100mm]		Concrete Curb and Gutter [600.040] [Straight]	Concrete Curb and Gutter [600.040] [Circular]	Concrete Curb and Gutter [600.110] [Straight]	Concrete Curb and Gutter [600.110] [Circular]	Concrete Gutter Outlets [OPSD 605.030]		Precast Concrete Curb	Interlocking Concrete Pavers [Brussel Block],[70mm]	Raised Concrete Slab Island	References
Sub - Totals Brought Forward:													
S-N/S Ramp													
10+679 - 10+683 7.8 RT (SW Quadrant)				4									
10+691 - 10+700 4.3 LT (NW Quadrant)				10									
10+696 - 10+698 4.8 LT (NW Quadrant)-Sidewalk Ramp		6											
Woodbine Ave.													
9+679 3.6 - 1.3 RT (Median Island)							8						
9+679 - 9+708 1.3 RT (Median Island)						29							
9+679 - 9+708 3.6 - 0.4 LT (Median Island)						30							
9+690 - 9+712 11.7 - 31.7 LT (SW Quadrant)				34									
9+695 - 9+718 11.6 - 25.0 RT (SE Quadrant)				30									
9+704 - 9+706 12.6 - 12.8 RT (SE Quadrant)-Sidewalk Ramp		6											
9+704 - 9+707 15.0 - 18.4 LT (SW Quadrant)-Sidewalk Ramp		12											
9+708 0.4 LT - 1.3 RT (Median Island)							1						
9+715 - 9+716 18.1 - 20.3 RT (SE Quadrant)-Sidewalk Ramp		6											
9+726 - 9+730 15.7 - 11.7 LT (NW Quadrant)					7								
9+730 - 9+734 11.7 LT (NW Quadrant)				4									
9+739 - 9+753 27.4 - 10.7 RT (NE Quadrant)				24									
9+742 1.2 - 0.2 LT (Median Island)							1						
Sub - Totals Carried Forward:	0	30		106	7	59	10	0		0	0	0	
TOTALS	(P)	(P)		(P)	(P)	(P)	(P)	(P)		(P)	(P)	(P)	
UNIT	m2	m2		m	m	m	m	each		each	m2	m2	
ITEM No.	19	20			21			22		23	24	25	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Concrete Pavement, Sidewalk, C&G, Interlocking Pavers, Raised Island

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
25

Location and Position	Concrete Pavement	Concrete in Sidewalk [100mm]		Concrete Curb and Gutter [600.040] [Straight]	Concrete Curb and Gutter [600.040] [Circular]	Concrete Curb and Gutter [600.110] [Straight]	Concrete Curb and Gutter [600.110] [Circular]	Concrete Gutter Outlets [OPSD 605.030]		Precast Concrete Curb	Interlocking Concrete Pavers [Brussel Block], [70mm]	Raised Concrete Slab Island	References
Sub - Totals Brought Forward:	0	30		106	7	59	10	0		0	0	0	
9+742 - 9+742 17.5 - 14.9 RT (NE Quadrant)-Sidewalk Ramp		9											
9+742 - 9+746 0.2 LT - 1.1 RT (Median Island)						4							
9+742 - 9+788 1.2 - 1.0 LT (Median Island)						46							
9+746 - 9+747 1.1 - 1.3 RT (Median Island)							1						
9+747 - 9+788 1.3 - 1.0 RT (Median Island)						41							
9+788 1.0 LT - 1.0 RT (Median Island)							3						
10+494 - 10+533 13.8 - 33.2 LT				50									
10+496 - 10+526 1.0 LT - 1.0 RT (Median Island)												58	
10+518 - 10+536 18.5 - 28.5 RT (SE Quadrant)				22									
10+525 - 10+528 17.7 - 20.1 LT (SW Quadrant)-Sidewalk Ramp		8											
10+525 - 10+566 19.7 - 23.0 LT (Crosswalk)											88		
10+533 - 10+534 24.1 - 26.5 RT (SE Quadrant)-Sidewalk Ramp		6											
10+533 - 10+569 26.3 - 23.0 RT (Crosswalk)											78		
10+563 - 10+593 25.2 - 16.3 LT (NW Quadrant)				33									
10+565 - 10+685 33.4 - 12.4 RT				132									
10+566 - 10+571 20.7 LT - 19.1 RT (Crosswalk)											95		
10+572 - 10+609 2.2 - 4.3 RT (Median Island)											71		
10+573 2.3 - 3.2 RT (Median Island)							1						
10+573 - 10+608 2.3 RT (Median Island)						35							
Sub - Totals Carried Forward:	0	53		343	7	185	15	0		0	332	58	
TOTALS	(P)	(P)		(P)	(P)	(P)	(P)	(P)		(P)	(P)	(P)	
UNIT	m2	m2		m	m	m	m	each		each	m2	m2	
ITEM No.	19	20			21			22		23	24	25	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Concrete Pavement, Sidewalk, C&G, Interlocking Pavers, Raised Island

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
26

Location and Position	Concrete Pavement	Concrete in Sidewalk [100mm]		Concrete Curb and Gutter [600.040] [Straight]	Concrete Curb and Gutter [600.040] [Circular]	Concrete Curb and Gutter [600.110] [Straight]	Concrete Curb and Gutter [600.110] [Circular]	Concrete Gutter Outlets [OPSD 605.030]		Precast Concrete Curb	Interlocking Concrete Pavers [Brussel Block], [70mm]	Raised Concrete Slab Island	References
Sub - Totals Brought Forward:	0	53		343	7	185	15	0		0	332	58	
10+573 - 10+575 3.2 - 4.1 RT (Median Island)						3							
10+575 - 10+576 4.1 - 4.3 RT (Median Island)							1						
10+576 - 10+608 4.3 - 4.2 RT (Median Island)						32							
10+593 - 10+595 16.3 - 20.6 LT					6								
10+605 21.2 - 19.2 LT				2									
10+605 - 10+608 19.2 - 16.0 LT					5								
10+608 2.2 - 4.2 RT (Median Island)					3								
10+608 - 10+630 16.0 - 15.0 LT				22									
10+630 - 10+633 15.0 - 17.4 LT					4								
10+633 - 10+634 17.4 - 19.3 LT				2									
10+643 - 10+647 18.4 - 14.0 LT					7								
10+647 - 10+685 14.0 - 12.1 LT				37									
Ravenshoe Rd.													
9+576 10.6 LT								1					
9+576 - 9+609 10.6 - 10.0 LT				34									
9+592 - 10+593 10.2 - 12.0 LT					2								
9+593 - 9+594 12.0 - 16.7 LT				5									
9+603 16.8 - 16.0 LT				1									
Sub - Totals Carried Forward:	0	53		446	34	220	16	1		0	332	58	
TOTALS	(P)	(P)		(P)	(P)	(P)	(P)	(P)		(P)	(P)	(P)	
UNIT	m2	m2		m	m	m	m	each		each	m2	m2	
ITEM No.	19	20			21			22		23	24	25	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Concrete Pavement, Sidewalk, C&G, Interlocking Pavers, Raised Island

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
27

Location and Position	Concrete Pavement	Concrete in Sidewalk [100mm]		Concrete Curb and Gutter [600.040] [Straight]	Concrete Curb and Gutter [600.040] [Circular]	Concrete Curb and Gutter [600.110] [Straight]	Concrete Curb and Gutter [600.110] [Circular]	Concrete Gutter Outlets [OPSD 605.030]		Precast Concrete Curb	Interlocking Concrete Pavers [Brussel Block],[70mm]	Raised Concrete Slab Island	References
Sub - Totals Brought Forward:	0	53		446	34	220	16	1		0	332	58	
9+603 - 9+610 16.0 - 10.1 LT					10								
9+605 - 9+635 2.5 - 0.5 LT (Median Island)												58	
9+610 - 9+635 10.1 - 15.0 LT (NW Quadrant)				26									
9+615 11.1 RT(SW Quadrant)								1					
9+615 - 9+621 11.1 - 10.0 RT				6									
9+683 - 9+713 2.5 - 0.5 RT (Median Island)												58	
9+683 - 9+724 14.4 - 11.4 RT (SE Quadrant)				41									
9+693 - 9+697 10.0 LT (NE Quadrant)				4									
9+724 11.4 RT								1					
Commuter Parking Lot													
10+020 - 10+022 (Nose of Island)							6						
10+022 - 10+068 2.4 - 3.75 RT (Median Island)						47							
10+022 - 10+068 2.4 - 3.75 LT (Median Island)						47							
10+024 - 10+028 7.8 RT (SE Quadrant)				4									
10+029 - 10+033 12.5 LT (NE Quadrant)				4									
10+068 - 10+70 (Nose of Island)							6						
Raised GO Bus Platform	999												
North Side						53							
Sub - Totals Carried Forward:	999	53		531	44	367	28	3		0	332	174	
TOTALS	(P)	(P)		(P)	(P)	(P)	(P)	(P)		(P)	(P)	(P)	
UNIT	m2	m2		m	m	m	m	each		each	m2	m2	
ITEM No.	19	20			21			22		23	24	25	
Reference													
													CHKD. _____ APPR. _____ DATE _____

Concrete Pavement, Sidewalk, C&G, Interlocking Pavers, Raised Island

SHEET |

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[illegible]

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:													
Throughout Project Limits										2200			
Highway 404													
33+761 LT				1									
33+761 RT				1									
33+761 LT - 33+825 LT	64												
33+761 RT - 33+825 RT	64												
33+825 LT						1							
33+825 RT						1							
33+825 LT - 33+841 LT		19											
33+825 RT - 33+841 RT		27											
33+826 LT				1									
33+826 RT				1									
33+826 LT - 33+975 LT	149												
33+826 RT - 33+975 RT	150												
33+841 LT								1					
33+846 RT								1					
33+975 LT						1							
33+975 RT						1							
33+975 LT - 33+989 LT		17											
Sub - Totals Carried Forward:	427	63		4	0	4	0	2		2200			
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	427	63		4	0	4	0	2		2200			
33+975 RT - 33+989 RT		18											
33+976 LT				1									
33+976 RT				1									
33+976 LT - 34+125 LT	149												
33+976 RT - 34+125 RT	150												
33+989 LT								1					
33+989 RT								1					
34+125 LT						1							
34+125 RT						1							
34+125 RT - 34+139 RT		18											
34+125 LT - 34+143 LT		22											
34+126 LT				1									
34+126 RT				1									
34+126 LT - 34+275 LT	149												
34+126 RT - 34+275 RT	149												
34+139 RT								1					
34+143 LT								1					
34+275 LT						1							
Sub - Totals Carried Forward:	1024	121		8	0	7	0	6		2200			
<div><div></div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
31

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	1024	121		8	0	7	0	6		2200			
34+275 RT						1							
34+275 RT - 34+289 RT		18											
34+275 LT - 34+291 LT		19											
34+276 LT				1									
34+276 RT				1									
34+276 LT - 34+425 LT	149												
34+276 RT - 34+425 RT	149												
34+289 RT								1					
34+291 LT								1					
34+425 LT						1							
34+425 RT						1							
34+425 RT - 34+440 RT		19											
34+425 LT - 34+441 LT		19											
34+426 LT				1									
34+426 RT				1									
34+426 LT - 34+575 LT	149												
34+426 RT - 34+575 RT	149												
34+440 RT								1					
34+441 LT								1					
Sub - Totals Carried Forward:	1620	196		12	0	10	0	10		2200			
<div>(P) (M)</div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	1620	196		12	0	10	0	10		2200			
34+575 LT				1									
34+575 RT				1									
34+575 LT - 34+591 LT		19											
34+575 RT - 34+591 RT		22											
34+576 LT				1									
34+576 RT				1									
34+576 LT - 34+760 LT	184												
34+576 RT - 34+760 RT	184												
34+591 LT								1					
34+591 RT								1					
34+760 LT					1								
34+760 RT					1								
34+760 LT (OUTLET)		11											
34+760 RT (OUTLET)		8											
34+760 LT								1					
34+760 RT								1					
34+760 LT - 34+874 LT	114												
34+760 RT - 34+874 RT	114												
Sub - Totals Carried Forward:	2216	256		16	2	10	0	14		2200			
<div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

SHEET
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Contract No.

Pipe Subdrains

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	2812	317		22	2	14	0	16		2200			
35+175 LT - 35+196 LT		27											
35+176 LT				1									
35+176 RT				1									
35+176 LT - 35+325 LT	149												
35+176 RT - 35+325 RT	149												
35+192 RT								1					
35+196 LT								1					
35+325 LT						1							
35+325 RT						1							
35+325 LT - 35+338 LT		15											
35+325 RT - 35+339 RT		17											
35+326 LT				1									
35+326 RT				1									
35+326 LT - 35+475 LT	149												
35+326 RT - 35+475 RT	149												
35+338 LT								1					
35+339 RT								1					
35+475 LT						1							
Sub - Totals Carried Forward:	3408	376		26	2	17	0	20		2200			
<div style="display: flex; justify-content: space-between; align-items: center;"> (P) (M) </div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													

CHKD. _____
 APPR. _____
 DATE _____

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MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
35

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	3408	376		26	2	17	0	20		2200			
35+475 RT						1							
35+475 LT - 35+490 LT		19											
35+475 RT - 35+490 RT		19											
35+476 LT				1									
35+476 RT				1									
35+476 LT - 35+625 LT	149												
35+476 RT - 35+625 RT	149												
35+490 LT								1					
35+490 RT								1					
35+625 LT						1							
35+625 RT						1							
35+625 LT - 35+640 LT		19											
35+625 RT - 35+640 RT		19											
35+626 LT				1									
35+626 LT				1									
35+626 LT - 35+775 LT	149												
35+626 RT - 35+775 RT	149												
35+640 LT								1					
35+640 RT								1					
Sub - Totals Carried Forward:	4004	452		30	2	20	0	24		2200			
<div>(P) (P)</div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
36

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	4004	452		30	2	20	0	24		2200			
35+775 LT						1							
35+775 RT						1							
35+775 LT - 35+790 LT		19											
35+775 RT - 35+790 RT		19											
35+776 LT				1									
35+776 RT				1									
35+776 LT - 35+925 LT	149												
35+776 RT - 35+925 RT	149												
35+790 LT								1					
35+790 RT								1					
35+925 LT						1							
STA. 35+925 RT						1							
35+925 LT - 35+940 LT		19											
35+925 RT - 35+940 RT		19											
35+926 LT				1									
35+926 RT				1									
35+926 LT - 36+075 LT	149												
35+926 RT - 36+075 RT	149												
Sub - Totals Carried Forward:	4600	528		34	2	24	0	26		2200			
(P) (P)													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
37

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	4600	528		34	2	24	0	26		2200			
35+940 LT								1					
35+940 RT								1					
36+075 LT						1							
36+075 RT						1							
36+075 RT - 36+096 RT		27											
36+075 LT - 36+097 LT		28											
36+076 LT				1									
36+076 RT				1									
36+076 LT - 36+225 LT	149												
36+076 RT - 36+225 RT	149												
36+096 RT								1					
36+097 LT								1					
36+225 LT						1							
36+225 RT						1							
36+225 RT - 36+245 RT		25											
36+225 LT - 36+249 LT		30											
36+226 LT				1									
36+226 RT				1									
36+226 LT - 36+363 LT	137												
Sub - Totals Carried Forward:	5035	638		38	2	28	0	30		2200			
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	5035	638		38	2	28	0	30		2200			
36+226 RT - 36+363 RT	137												
36+245 RT								1					
36+249 LT								1					
36+363 LT					1								
36+363 RT					1								
36+363 LT (OUTLET)		17											
36+363 RT (OUTLET)		15											
36+363 LT								1					
36+363 RT								1					
36+363 RT - 36+524 RT	161												
36+363 LT - 36+550 LT	187												
36+509 RT								1					
36+509 RT - 36+525 RT		20											
36+524 RT				1									
36+525 RT						1							
36+525 RT - 36+674 RT	148												
36+534 LT								1					
36+534 LT - 36+550 LT		19											
Sub - Totals Carried Forward:	5668	709		39	4	29	0	36		2200			
<div>(P) (P)</div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
39

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	5668	709		39	4	29	0	36		2200			
36+550 LT				1									
36+550 LT						1							
36+550 LT - 36+674 LT	125												
36+659 LT								1					
36+659 LT - 36+675 LT		19											
36+661 RT								1					
36+661 RT - 36+675 RT		16											
36+674 LT				1									
36+674 RT				1									
36+675 LT						1							
36+675 RT						1							
36+675 LT - 36+824 LT	150												
36+675 RT - 36+824 RT	147												
36+809 LT								1					
36+809 LT - 36+825 LT		20											
36+811 RT								1					
36+811 RT - 36+825 RT		16											
36+824 LT				1									
36+824 RT				1									
Sub - Totals Carried Forward:	6090	780		44	4	32	0	40		2200			
<div>(P) (F)</div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
40

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	6090	780		44	4	32	0	40		2200			
36+825 LT						1							
36+825 RT						1							
36+825 LT - 36+974 LT	150												
36+825 RT - 36+974 LT	147												
36+959 RT								1					
36+959 RT - 36+975 RT		18											
36+960 LT								1					
36+960 LT - 36+975 LT		19											
36+974 LT				1									
36+974 RT				1									
36+975 LT						1							
36+975 RT						1							
36+975 LT - 37+060 LT		85											
36+975 RT - 37+073 RT		97											
37+060 LT				1									
37+073 RT				1									
37+125 LT								1					
37+125 LT - 37+128 LT		14											
Sub - Totals Carried Forward:	6387	1013		48	4	36	0	43		2200			
(P) (P)													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	6387	1013		48	4	36	0	43		2200			
37+130 RT								1					
37+130 RT - 37+138 RT		14											
37+128 LT						1							
37+128 LT - 37+274 LT	147												
37+138 RT						1							
37+138 RT - 37+274 RT	134												
37+259 LT								1					
37+259 LT - 37+275 LT		19											
37+260 RT								1					
37+260 RT - 37+275 RT		18											
37+274 LT				1									
37+274 RT				1									
37+275 LT						1							
37+275 RT						1							
37+275 LT - 37+414 LT	140												
37+275 RT - 37+414 RT	138												
37+414 LT				1									
37+414 RT				1									
37+416 LT				1									
Sub - Totals Carried Forward:	6946	1064		53	4	40	0	46		2200			
<div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
42

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	6946	1064		53	4	40	0	46		2200			
37+416 RT				1									
37+416 LT - 37+575 LT	160												
37+416 RT - 37+575 RT	157												
37+575 LT						1							
37+575 RT						1							
37+575 RT - 37+590 RT		18											
37+575 LT - 37+591 LT		20											
37+576 LT				1									
37+576 RT				1									
37+576 LT - 37+725 LT	150												
37+576 RT - 37+725 RT	147												
37+590 RT								1					
37+591 LT								1					
37+725 LT						1							
37+725 RT						1							
37+725 RT + 37+740 RT		18											
37+725 LT + 37+741 LT		20											
37+726 LT				1									
Sub - Totals Carried Forward:	7560	1140		57	4	44	0	48		2200			
<div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	7560	1140		57	4	44	0	48		2200			
37+726 RT				1									
37+726 LT - 37+875 LT	150												
37+726 RT - 37+875 RT	147												
37+740 RT								1					
37+741 LT								1					
37+875 LT						1							
37+875 RT						1							
37+875 RT - 37+890 RT		18											
37+875 LT - 37+891 LT		20											
37+876 LT				1									
37+876 RT				1									
37+876 LT - 38+025 LT	150												
37+876 LT - 38+025 LT	147												
37+890 RT								1					
37+891 LT								1					
38+025 LT						1							
38+025 RT						1							
38+025 LT - 38+041 LT		20											
38+025 RT - 38+041 RT		19											
Sub - Totals Carried Forward:	8154	1217		60	4	48	0	52		2200			
TOTALS	(P)	(P)											
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

SHEET
44

14

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	8748	1255		64	4	52	0	56		2200			
38+325 RT - 38+339 RT		18											
38+325 LT - 38+340 LT		19											
38+326 LT				1									
38+326 RT				1									
38+326 LT - 38+475 LT	150												
38+326 RT - 38+475 RT	147												
38+339 RT								1					
38+340 LT								1					
38+475 LT						1							
38+475 RT						1							
38+475 RT - 38+489 RT		16											
38+475 LT - 38+490 LT		19											
38+476 LT				1									
38+476 RT				1									
38+476 RT - 38+574 RT	96												
38+476 LT - 38+630 LT	155												
38+489 RT								1					
38+490 LT								1					
38+574 RT						1							
Sub - Totals Carried Forward:	9296	1327		68	4	55	0	60		2200			
TOTALS	(P)	(P)											
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	9296	1327		68	4	55	0	60		2200			
38+574 RT - 38+581 RT		8											
38+630 LT						1							
38+630 LT - 38+648 LT		22											
38+581 RT								1					
38+640 LT				1									
38+640 LT - 38+720 LT	80												
38+648 LT								1					
38+720 LT						1							
38+720 LT - 38+728 LT		9											
38+728 LT								1					
Ravenshoe Rd.													
9+256 LT				1									
9+256 LT - 9+375 LT	119												
9+375 LT					1								
9+375 LT (OUTLET)		3											
9+375 LT								1					
9+375 - 9+474 LT	99												
9+425 RT				1									
Sub - Totals Carried Forward:	9594	1369		71	5	57	0	64		2200			
	(P)	(P)											
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	9594	1369		71	5	57	0	64		2200			
9+425 RT - 9+475 RT	50												
9+472 LT								1					
9+472 LT - 9+475 LT		4											
9+474 LT				1									
9+475 LT						1							
9+475 RT					1								
9+475 RT (OUTLET)		2											
9+475 RT								1					
9+475 LT - 9+567 LT	92												
9+475 RT - 9+606 RT	131												
9+566 LT								1					
9+566 LT - 9+572 LT		8											
9+567 LT				1									
9+572 LT						1							
9+572 LT - 9+643 LT		74											
9+606 RT						1							
9+606 RT - 9+609 RT		5											
9+609 RT								1					
Sub - Totals Carried Forward:	9867	1462		73	6	60	0	68		2200			
TOTALS	(P)	(P)											
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	9867	1462		73	6	60	0	68		2200			
9+606 RT - 9+610 RT		7											
9+610 RT							1						
9+610 RT - 9+636 RT	62												
9+636 RT				1									
9+643 LT				1									
9+669 RT				1									
9+669 RT - 9+725 RT	67												
9+678 LT				1									
9+678 LT - 9+702 LT	29												
9+702 LT						1							
9+702 - 9+709 LT		10											
9+709 LT								1					
9+725 RT						1							
9+725 RT - 9+732 RT		10											
9+732 RT								1					
9+875 LT				1									
9+875 LT - 9+950 LT	75												
9+950 LT						1							
9+950 LT - 9+954 LT		5											
Sub - Totals Carried Forward:	10100	1494		78	6	63	1	70		2200			
<div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	150 mm Pipe Subdrain [Perforated Including Excavation, Backfill & Sock]	150 mm Pipe Subdrain [Non-Perforated Including Excavations, Backfill & Sock]		Caps	Tees	45 Degree Elbows	90 Degree Elbows	Outlet Including Rodent Grate		Closed Circuit Television Inspection			References
Sub - Totals Brought Forward:	10100	1494		78	6	63	1	70		2200			
9+954 LT								1					
Woodbine Ave.													
10+570 LT				1									
10+570 LT - 10+590 LT	20												
10+574 RT				1									
10+574 RT - 10+673 RT	100												
10+592 LT				1									
10+592 LT - 10+646 LT	54												
10+646 LT						1							
10+646 LT - 10+647 LT		2											
10+673 RT						1							
10+673 - 10+679 RT		8											
10+679 RT								1					
Boag Road													
9+960 - 10+040 LT	80			1									
10+040 - 10+045 LT		6				1		1					
9+960 - 10+040 RT	80			1									
10+040 - 10+045 RT		6				1		1					
Sub - Totals Carried Forward:	10434	1516		83	6	67	1	74		2200			
<div><div>(P)</div><div>(M)</div></div>													
TOTALS													
UNIT	m	m		each	each	each	each	each		m			
ITEM No.		26		-	-	-	-	-		27			
Reference													
													CHKD. _____ APPR. _____ DATE _____

Contract No.[illegible]

QUANTITIES - DRAINAGE, MANHOLES, CATCH BASINS AND DITCH INLETS

W.P. No. 2005-07-00

Contract No.

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 600 mm Manholes Catchbasins and Ditch Inlets	1200 mm Manholes Catchbasins and Ditch Inlets	1500 mm Manholes Catchbasins and Ditch Inlets	1800 mm Manholes Catchbasins and Ditch Inlets	1800 mm Manholes Catchbasins and Ditch Inlets, Over 4 m	2400 mm Manholes Catchbasins and Ditch Inlets	2400 mm Manholes Catchbasins and Ditch Inlets, Over 4 m	Oil-Grit Separator System	Safety Platform (OPSD 404.020)	References
Sub - Totals Brought Forward:																			
Highway 404	1	33+890	45.94 LT	701.011	403.010	6:1	256.724	253.798	3.5			1							
Highway 404	2	33+890	CL	701.012	400.010		257.990	253.340	5.3				1					1	
Highway 404	3	33+890	52.82 RT	701.012	403.010	6:1	255.550	252.732	3.5				1						
Highway 404 (Pond 6)	5	33+990	80.85 RT	701.010	401.010		253.800	249.860	4.2		1								
Highway 404 (Pond 8)	8	34+654	19.64 RT	701.010	401.010		248.500	243.840	5.0		1								
Highway 404	10	34+680	42.74 LT	701.011	403.010	6:1	250.714	247.998	3.3			1							
Highway 404	11	34+695	CL	701.012	400.010		250.676	247.516	3.8				1						
Highway 404	12	34+712	49.90 RT	701.012	403.010	6:1	249.514	246.939	3.2				1						
Highway 404	14	35+140	CL	701.012	400.010		251.436	249.513	2.6				1						
Highway 404	17	36+411	67.65 LT	701.013	401.010		241.500	237.220	4.6						1				
Highway 404	18	36+436	55.99 LT	701.013	401.010		243.390	236.860	6.8							1		1	
Highway 404	19	36+450	51.69 RT	701.013	401.010		240.130	235.820	4.6						1				
Highway 404	20	36+454	18.97 RT	701.013	401.010		238.560	235.140	3.7						1				
Boag Road	21	10+000	10.26 RT	701.010	401.040		240.973	238.328	3.3		1								
Boag Road	22	10+000	10.88 LT	701.012	401.040		241.223	238.432	3.4			1							
Highway 404	23	37+120	41.04 LT	706.010	403.010	6:1	245.017	242.717	2.9			1							
Highway 404	24	37+125	CL	706.010	403.010	6:1	244.378	242.028	3.0				1						
Highway 404	25	37+130	40.55 RT	706.020	403.010	6:1	244.003	240.130	4.5					1					
Commuter Lot	27	9+783	77.15 RT	701.010	400.010		231.041	229.101	2.7		1								
Commuter Lot	28	9+783	50.54 RT	701.010	400.010		231.041	228.789	2.7		1								
Sub - Totals Carried Forward:										0	5	4	6	1	3	1	0	2	
										(P)	(P)	(P)	(P)	(P)	(P)	(P)			
TOTALS										each	each	each	each	each	each	each	each	each	
UNIT										28	29	30	31	32	33	34	35	-	
ITEM No.																			
CHKD. _____																			
APPR. _____																			
DATE _____																			

Manholes, Catchbasins, Ditch Inlets

QUANTITIES - DRAINAGE, MANHOLES, CATCH BASINS AND DITCH INLETS

W.P. No. 2005-07-00

Contract No.

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 600 mm Manholes Catchbasins and Ditch Inlets	1200 mm Manholes Catchbasins and Ditch Inlets	1500 mm Manholes Catchbasins and Ditch Inlets	1800 mm Manholes Catchbasins and Ditch Inlets	1800 mm Manholes Catchbasins and Ditch Inlets, Over 4 m	2400 mm Manholes Catchbasins and Ditch Inlets	2400 mm Manholes Catchbasins and Ditch Inlets, Over 4 m	Oil-Grit Separator System	Safety Platform (OPSD 404.020)	References
Sub - Totals Brought Forward:										0	5	4	6	1	3	1	0	2	
Commuter Lot	29	9+816	37.87 RT			2:1	230.510	228.355	2.5								1		
Woodbine Avenue	30	10+587	21.10 LT	701.010	400.010		228.976	228.157	1.0		1								
Woodbine Avenue	31	10+591	15.70 LT	701.010	401.010		229.160	227.999	1.8		1								
Woodbine Avenue	32	10+647	15.67 LT	701.050	401.010		228.975	226.123	2.3		1								
Hwy 404 (to Boag Road)	33	37+100	48.80 LT	705.030	403.010	6:1	224.058	242.258	2.4	1									
Commuter Lot Entrance	34	10+072	12.00 LT	701.010	400.010		231.268	229.468	2.4		1								
Commuter Lot Entrance	35	10+070	CL	701.010	400.010		230.868	229.031	2.4		1								
Commuter Lot Entrance	36	10+020	CL	705.010	400.010		229.197	228.117	1.8	1									
Commuter Lot Entrance	37	10+020	8.17 RT	705.010	400.010		229.029	227.957	1.8	1									
Sub - Totals Carried Forward:										3	10	4	6	1	3	1	1		
										(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)		
TOTALS										3	10	4	6	1	3	1	1	2	
UNIT										each	each	each	each	each	each	each	each	each	
ITEM No.										28	29	30	31	32	33	34	35	-	
																			CHKD. _____
																			APPR. _____
																			DATE _____

Manholes, Catchbasins, Ditch Inlets

QUANTITIES - SEWERS

W.P. No. 2005-07-00

Contract No.

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation		Depth of Pipe	Pipe Fill Material			Pipe Joints	200 mm Pipe Sewer 200 S 122310 200 C 000310	300 mm Pipe Sewer 300 S 122311 300 C 000311	300 mm Pipe Sewer 300 S 111111 300 C 000111	300 mm Pipe Sewer 300 S 111111 400 C 000111	500 mm Pipe Sewer 500 S 122311 500 C 000311		References
		Upstream	Downstream		Bedding	Cover	Backfill								
Sub - Totals Brought Forward:															
4 - 5	Highway 404 (Pond 6) 80.9 - 80.9 RT	250.000	249.890	2.2	G	G	G						12		
6 - 5	Highway 404 (Pond 6) 89.5 - 80.9 RT	250.250	249.860	3.4	G	G	G		9						
5 - OUTLET	Highway 404 (Pond 6) 80.9 - 80.7 RT	249.860	248.660	3.4	G	G	G						51		
7 - 8	Highway 404 (Pond 7) 112.6 - 119.6 RT	244.220	243.840	4.1	G	G	G		8						
9 - 8	Highway 404 (Pond 7) 111.6 - 119.6 RT	243.990	243.870	2.5	G	G	G						11		
8 - OUTLET	Highway 404 (Pond 7) 119.6 - 141.0 RT	243.840	243.560	4.2	G	G	G						28		
13 - OUTLET	Highway 404 (Holborn Pond) 98.6 - 109.9 LT	248.550	248.000	0.2	G	G	G						17		
16 - 17	Highway 404 (Pond 8) 61.9 - 67.7 LT	237.220	237.120	4.0	G	G	G			10					
Sub - Totals Carried Forward:									17	10	0	0	119		

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete
1 - 50-D
2 - 65-D

2nd digit = PVC
3 - 100-D
4 - 140-D

3rd digit = HDPE
1 - Class 210
2 - Class 320

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel
1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material is not acceptable.
Same pipe material with a higher value is also acceptable.

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal
Note: N joints is specified if no code is entered.

Pipe Type

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

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

Pipe Fill Material

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

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

	(P)	(P)	(P)	(P)	(P)	
TOTALS						
UNIT	m	m	m	m	m	
ITEM No.	36		37		38	

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - SEWERS

W.P. No. 2005-07-00

Contract No.

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation		Depth of Pipe	Pipe Fill Material			Pipe Joints	200 mm Pipe Sewer 200 S 122310 200 C 000310	300 mm Pipe Sewer 300 S 122311 300 C 000311	300 mm Pipe Sewer 300 S 111111 300 C 000111	300 mm Pipe Sewer 300 S 111111 400 C 000111	500 mm Pipe Sewer 500 S 122311 500 C 000311		References
		Upstream	Downstream		Bedding	Cover	Backfill								
Sub - Totals Brought Forward:									17	10	0	0	119		
26 - OUTLET	Ramp S-N/S (Pond 9) 75.9 - 21.0 RT	228.900	228.620	0.2	G	G	G						23		
27 - 28	Woodbine Avenue (Commuter Lot) 77.1 - 50.8 RT	229.101	228.838	1.7	G	G	G				27				
28 - 29	Woodbine Avenue (Commuter Lot) 50.8 - 37.9 RT	228.788	228.436	2.0	G	G	G					36			
29 - OUTLET	Woodbine Avenue (Commuter Lot) 37.9 - 27.1 RT	228.356	228.250	1.8	G	G	G					11			
30 - 31	Woodbine Avenue 21.1 - 15.6 LT	228.157	228.080	0.4	G	G	G				7				
33 - OUTLET	Highway 404 (Boag Road) 48.8 - 49.6 LT	242.258	242.156	2.4	G	G	G				10				
34 - 35	Commuter Lot Entrance 12.0 LT - CL	229.468	229.081	1.5	G	G	G			12					
Sub - Totals Carried Forward:									17	22	44	47	142		

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete

1 - 50-D
2 - 65-D

2nd digit = PVC

1 - Class 210
2 - Class 320

3rd digit = HDPE

1 - Class 210
2 - Class 320

3 - RSC 160
4 - RSC 250

5 - Class 210 or RSC 160
6 - Class 320 or RSC 250

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel

1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material is not acceptable.
Same pipe material with a higher value is also acceptable.

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal

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

Pipe Type

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

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

Pipe Fill Material

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

Notes: N applies to cover and backfill only.

1 letter specifies material for all pipes.
2 letter codes specifies fill material for rigid and flexible pipes respectively.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

	(P)	(P)	(P)	(P)	(P)
TOTALS					
UNIT	m	m	m	m	m
ITEM No.	36		37		38

CHKD. _____
APPR. _____
DATE _____

Sub - Totals Carried Forward:

1 letter specifies material for all pipes.
2 letter codes specifies fill material for rigid and flexible pipes respectively.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

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

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - SEWERS

W.P. No. 2005-07-00

Contract No.

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation		Depth of Pipe	Pipe Fill Material			Pipe Joints	600 mm Pipe Sewer 600 S 122311 600 C 000311	600 mm Pipe Sewer 600 S 122311 800 C 000311	800 mm Pipe Sewer 800 S 106311 800 C 000311	800 mm Pipe Sewer 800 S 106311 900 C 000311	1200 mm Pipe Sewer 1200 S 104322 1500 C 000322		References
		Upstream	Downstream		Bedding	Cover	Backfill								
Sub - Totals Brought Forward:															
1 - 2	Highway 404	253.798	253.340	2.1	G	G	G				46				
	45.9 LT - CL														
2 - 3	Highway 404	253.260	252.732	3.9	G	G	G				53				
	CL - 52.8 RT														
3 - OUTLET	Highway 404	246.939	246.500	1.8	G	G	G					39			
	52.8 - 82.5 RT														
10 - 11	Highway 404	247.998	247.545	1.9	G	G	G				46				
	42.7 LT - CL														
11 - 12	Highway 404	247.516	246.989	2.4	G	G	G				53				
	CL - 49.9 RT														
12 - OUTLET	Highway 404	246.939	246.500	1.8	G	G	G				44				
	49.9 - 93.7 RT														
INLET - 14	Highway 404	250.000	249.543	0.0	G	G	G				46				
	45.8 RT - CL														
14 - OUTLET	Highway 404	249.513	249.270	1.1	G	G	G				50				
	CL - 49.6 LT														
15 - 17	Highway 404 (Pond 8)	237.230	237.120	3.1	G	G	G						13		
Sub - Totals Carried Forward:									0	0	338	39	13		

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete
1 - 50-D
2 - 65-D

2nd digit = PVC
3 - 100-D
4 - 140-D

1 - Class 210
2 - Class 320

3rd digit = HDPE
1 - Class 210
2 - Class 320

3 - RSC 160
4 - RSC 250

5 - Class 210 or RSC 160
6 - Class 320 or RSC 250

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel
1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material is not acceptable.
Same pipe material with a higher value is also acceptable.

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal
Note: N joints is specified if no code is entered.

Pipe Type

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

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

Pipe Fill Material

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

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

	(P)	(P)	(P)	(P)	(P)	
TOTALS						
UNIT	m	m	m	m	m	
ITEM No.		39		40	41	

CHKD. _____
APPR. _____
DATE _____

SHEET
58

Contract No.Sub - Totals Carried Forward:

ITEM No.

(P)

39

40

41

CHKD. _____
APPR. _____
DATE _____

Contract No.

[illegible]

QUANTITIES - PIPE CULVERTS

W.P. No. 2005-07-00

Contract No.

SHEET
60

Culvert No	Station	Location and Position	Ext		Skew No	End Finish	Depth of Pipe	Pipe Fill Material			Pipe Joints	Treatment	Inv Elev		300 mm Pipe Culvert 300 S 011000 300 C 000000	500 mm Pipe Culvert 500 + 100 S 122311 500 + 100 C 000311	500 mm Pipe Culvert 500 S 111111 500 C 000111	700 mm Pipe Culvert 700 S 111111 800 C 000111			References	
			Left	Right				Bedding	Cover	Backfill			Upstream	Downstream								
Sub - Totals Brought Forward:																						
3	35+089	Highway 404 (Holborn Pond) 62.0 LT					3.9	G	G	N			248.799	248.500		31						
8	36+302	Highway 404 (Pond 8) 48.2 LT					1.7	G	G	G			239.487	239.302			26					
13	10+457	Ramp S-N/S 13.0 RT					1.6	G	G	G			228.680	228.585			21					
15	9+445	Woodbine Avenue 14.0 LT					0.8	G	G	N			229.901	229.754			15					
16	9+517	Woodbine Avenue 15.9 LT					0.9	G	G	N			229.137	228.991			15					
17	9+731	Woodbine Avenue 21.9 RT					0.8	G	G	G		F	227.794	227.766			41					
18	9+924	Woodbine Avenue CL					1.1	G	G	G		F	227.500	227.480				35				
19	9+925	Woodbine Avenue CL					1.4	G	G	G		F	227.500	227.480				35				

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete

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

2nd digit = PVC

1 - Class 210
2 - Class 320

3rd digit = HDPE

1 - Class 210 3 - RSC 160 5 - Class 210 or RSC 160
2 - Class 320 4 - RSC 250 6 - Class 320 or RSC 250

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel

1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material represented is not acceptable. Same pipe material with a higher value is also acceptable. This pipe material code applies to all circular and non-circular pipe material.

Pipe Type

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

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal

Note: N 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 top of road surface at CL to top of base pipe opening directly below the CL 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.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration

Frost Penetration depth -

	(P)	(P)	(P)	(P)		
TOTALS						
UNIT	m	m	m	m		
ITEM No.	43		44	45		

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - PIPE CULVERTS

W.P. No. 2005-07-00

Contract No.

SHEET
61

Culvert No	Station	Location and Position	Ext		Skew No	End Finish	Depth of Pipe	Pipe Fill Material			Pipe Joints	Treatment	Inv Elev		300 mm Pipe Culvert 300 S 011000 300 C 000000	500 mm Pipe Culvert 500 + 100 S 122311 500 + 100 C 000311	500 mm Pipe Culvert 500 S 111111 500 C 000111	700 mm Pipe Culvert 700 S 111111 800 C 000111			References
			Left	Right				Bedding	Cover	Backfill			Upstream	Downstream							
Sub - Totals Brought Forward:															0	31	118	70			
20	9+926	Woodbine Avenue CL					1.1	G	G	G		F	227.500	227.480				35			
25	9+870	Ravenshoe Road 14.5 LT					0.5	G	G	N			227.858	227.842			12				
26	10+039	Ravenshoe Road 12.8 RT					0.7	G	G	N			227.413	227.379			16				
27	10+043	Ravenshoe Road 10.7 LT					0.6	G	G	N			227.444	227.415			10				
28	10+057	Ravenshoe Road 10.7 LT					1.1	G	G	N			227.404	227.375			10				
29	9+768	Ravenshoe Road 10.1 LT					1.5	G	G	N			243.139	242.977			12				
30	10+084	Boag Road 9.6 RT					1.3	G	G	N			237.873	237.929			21				
31	10+200	Boag Road 9.6 RT					1.3	G	G	N			237.607	237.577			11				
32	10+492	Boag Road 5.6 LT					1.3	G	G	N			235.300	235.550			10				

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

- 1 - Class 210
2 - Class 320

3rd digit = HDPE

- 1 - Class 210
2 - Class 320
- 3 - RSC 160
4 - RSC 250
- 5 - Class 210 or RSC 160
6 - Class 320 or RSC 250

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel

- 1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material represented is not acceptable. Same pipe material with a higher value is also acceptable. This pipe material code applies to all circular and non-circular pipe material.

Pipe Type

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

Pipe Joints

- N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal

Note: N 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 top of road surface at CL to top of base pipe opening directly below the CL 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.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration

Frost Penetration depth -

	(P)	(P)	(P)	(P)		
TOTALS						
UNIT	m	m	m	m		
ITEM No.	43		44	45		

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - PIPE CULVERTS

W.P. No. 2005-07-00

Contract No.

SHEET
62

Culvert No	Station	Location and Position	Ext		Skew No	End Finish	Depth of Pipe	Pipe Fill Material			Pipe Joints	Treatment	Inv Elev		300 mm Pipe Culvert 300 S 011000 300 C 000000	500 mm Pipe Culvert 500 + 100 S 122311 500 + 100 C 000311	500 mm Pipe Culvert 500 S 111111 500 C 000111	700 mm Pipe Culvert 700 S 111111 800 C 000111			References
			Left	Right				Bedding	Cover	Backfill			Upstream	Downstream							
Sub - Totals Brought Forward:															0	31	220	105			
34	33+931	Highway 404 (Pond 6) 93.1 RT					1.5	N	N	N			250.500	250.500	16						
35	34+700	Highway 404 (Pond 7) 101.5 RT					1.7	N	N	N			245.000	245.000	17						
36	35+101	Highway 404 (Holborn Pond) 77.7 LT					1.2	N	N	N			247.000	247.000	14						
37	36+315	Highway 404 (Pond 8) 93.9 LT					1.7	N	N	N			237.500	237.500	17						
38	10+460	Ramp S-N/S (Pond 9) 83.3 RT					1.7	N	N	N			228.000	228.000	17						

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

2nd digit = PVC

1 - Class 210
2 - Class 320

3rd digit = HDPE

1 - Class 210
2 - Class 320

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel

1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material represented is not acceptable. Same pipe material with a higher value is also acceptable. This pipe material code applies to all circular and non-circular pipe material.

Pipe Type

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

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal

Note: N 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 top of road surface at CL to top of base pipe opening directly below the CL 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.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration

Frost Penetration depth -

	(P)	(P)	(P)	(P)		
TOTALS	81		251	105		
UNIT	m	m	m	m		
ITEM No.	43		44	45		

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - PIPE CULVERTS

W.P. No. 2005-07-00

Contract No.

SHEET
63

Culvert No	Station	Location and Position	Ext		Skew No	End Finish	Depth of Pipe	Pipe Fill Material			Pipe Joints	Treatment	Inv Elev		800 mm Pipe Culvert 800 S 106311 800 C 000311	800 mm Pipe Culvert 800 S 100311 800 C 000311	800 mm Pipe Culvert 800 S 103111 800 C 000111	900 mm Pipe Culvert 900 S 106311 1200 C 000322	1000 mm Pipe Culvert 1000 S 104322 1200 C 000322		References	
			Left	Right				Bedding	Cover	Backfill			Upstream	Downstream								
Sub - Totals Brought Forward:																						
4	35+129	Highway 404 (Holborn Pond) 58.9 LT					3.1	G	G	G			249.280	249.000	28							
5	36+280	Highway 404 23.4 RT					2.3	G	G	G			239.726	239.502	45							
6	36+280	Highway 404 24.8 LT					2.6	G	G	G			239.390	239.148				49				
7	36+285	Highway 404 (Pond 8) 63.4 LT					2.6	G	G	N			239.148	238.855				28				
9	36+961	Highway 404 58.1 LT			70		4.6	G	G	G			239.289	237.260	122							
10	38+574	Highway 404 22.5 LT					1.1	G	G	G		F	231.555	230.654	44							
11	38+574	Highway 404 24.0 RT					1.0	G	G	G		F	230.650	230.184	47							
12	10+391	Ramp S-N/S (Pond 9) 39.2 RT					0.0	G	G	N			229.903	229.500					91			
Sub - Totals Carried Forward:															286	0	0	77	91			

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

2nd digit = PVC

1 - Class 210
2 - Class 320

3rd digit = HDPE

1 - Class 210
2 - Class 320

3 - RSC 160
4 - RSC 250

5 - Class 210 or RSC 160
6 - Class 320 or RSC 250

4th digit = Galv; 5th digit = Alum & 6th digit = Poly. Lam. Steel

1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8 mm and 3.0 mm thick
4 - 3.5 mm and 4.0 mm thick
5 - 4.2 mm and 5.0 mm thick
6 - 6.0 mm thick
7 - 7.0 mm thick

Note: '0' for any digit means that the pipe material represented is not acceptable. Same pipe material with a higher value is also acceptable. This pipe material code applies to all circular and non-circular pipe material.

Pipe Type

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

Pipe Joints

N - not sealed, L or H
L - low pressure seal, or H
H - high pressure seal

Note: N 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 top of road surface at CL to top of base pipe opening directly below the CL 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.
Specified pipe fill materials are G for bedding and N for cover and backfill if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration

Frost Penetration depth -

	(P)	(P)	(P)	(P)	(P)	
TOTALS						
UNIT	m	m	m	m	m	
ITEM No.		46		47	48	

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SHEET
64

Contract No.Sub - Totals Carried Forward:

Frost Penetration depth -

CHKD. _____
APPR. _____
DATE _____

Contract No.

SHEET
65

[illegible]

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Cutting Existing Pavement [100mm],[Asphalt]		Removal of Asphalt Pavement [220mm],[Pav't]	Removal of Asphalt Pavement [100mm],[Pav't]		Removal of Asphalt Pavement, Partial Depth [40mm]							References
Sub - Totals Brought Forward:													
Woodbine Ave.													
9+338 - 10+502 4.9 - 11.2 RT			1083										
9+338 - 10+526 4.5 - 21.3 LT			1257										
9+338 - 10+605 CL						12681							
9+677 - 9+708 LT	34												
9+677 - 9+708 RT	33												
9+742 - 9+798 LT	48												
9+742 - 9+798 RT	48												
9+760 - 9+763 CL			22										
9+910 - 9+914 CL			28										
9+971 - 9+974 CL			22										
10+094 - 10+097 CL			22										
10+496 - 10+526 LT	31												
10+496 - 10+526 RT	31												
10+572 - 10+609 LT	38												
10+572 - 10+609 RT	38												
10+593 - 10+685 8.3 - 12.4 RT			157										
10+646 - 10+685 11.6 - 12.1 LT			60										
10+675 - 10+790 CL						2212							
Sub - Totals Carried Forward:	301		2651	0		14893							
TOTALS	(P)		(P)	(P)		(P)							
UNIT	m		m2	m2		m2							
ITEM No.	51			52		53							
Reference													
													CHKD. _____ APPR. _____ DATE _____

Removal of Asphalt Pavement

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Cutting Existing Pavement [100mm],[Asphalt]		Removal of Asphalt Pavement [220mm],[Pav't]	Removal of Asphalt Pavement [100mm],[Pav't]		Removal of Asphalt Pavement, Partial Depth [40mm]								References
Sub - Totals Brought Forward:	301		2651	0		14893								
Ravenshoe Rd.														
9+251 - 9+610 4.7 - 9.7 RT				340										
9+251 - 9+580 4.3 - 6.8 LT				306										
9+251 - 9+647 CL						3689								
9+586 - 9+599 11.9 - 16.7 LT Entrance				175										
9+605 - 9+635 LT	31													
9+605 - 9+635 RT	31													
9+625 - 9+644 6.1 - 26.8 RT Island (SW Quadrant)				149										
9+666 - 10+115 CL						3956								
9+683 - 9+713 LT	29													
9+683 - 9+713 RT	31													
9+699 - 10+115 5.0 - 4.2 RT				373										
9+699 - 10+115 7.8 - 4.0 LT				328										
Boag Road														
10+202 18.0 RT Entrance				129										
Holborn Road														
10+069 18.1 RT Entrance				58										
Sub - Totals Carried Forward:	423		2651	1858		22538								
	(P)		(P)	(P)		(P)								
TOTALS														
UNIT	m		m2	m2		m2								
ITEM No.	51			52		53								
Reference														
														CHKD. _____ APPR. _____ DATE _____

Removal of Asphalt Pavement

SHEET
68

Contract No.[illegible]

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
69

Location and Position	Removal of Concrete Curb and Gutter [Roadway]		Removal of Maintenance Holes, Catchbasins, Ditch Inlets and Valve Chambers		Removal of Pipe Culverts and Sewers [Culverts]		Removal of Fence [Highway]						References
Sub - Totals Brought Forward:													
Highway 404													
33+760 - 33+831 LT							70						
33+821 - 33+834 CL							121						
33+855 - 33+943 RT							72						
33+954 - 34+016 RT							64						
34+003 - 34+607 LT							604						
34+016 - 34+017 LT							15						
34+109 - 34+115 CL							107						
34+408 - 34+411 LT							40						
34+607 - 34+626 CL							330						
34+690 - 34+789 LT							108						
34+820 - 34+823 CL							59						
34+820 - 34+926 CL							114						
34+861 - 34+894 LT							62						
35+039 - 35+445 RT							425						
35+516 - 35+656 RT							140						
35+846 - 35+853 CL							117						
36+251 - 36+259 CL							154						
36+298 - 36+442 LT							144						
Sub - Totals Carried Forward:	0		0		0		2746						
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		each		m		m						
ITEM No.	54		55		56		57						
Reference													
													CHKD. _____ APPR. _____ DATE _____

Removal of C&G, MH's, CB's, DI's Culverts, Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Removal of Concrete Curb and Gutter [Roadway]		Removal of Maintenance Holes, Catchbasins, Ditch Inlets and Valve Chambers		Removal of Pipe Culverts and Sewers [Culverts]		Removal of Fence [Highway]						References
Sub - Totals Brought Forward:	0		0		0		2746						
36+448 - 36+452 LT							62						
36+454 - 36+472 LT							28						
36+482 - 36+668 LT							189						
36+672 - 36+676 CL							83						
37+241 - 37+518 CL							290						
38+137 - 38+267 CL							169						
38+348 - 38+460 CL							159						
S-N/S Ramp													
10+317 - 10+699 LT							415						
10+566 - 10+574 LT							208						
10+622 RT							13						
Woodbine Ave. ¹													
9+354 - 9+659 RT							304						
9+403 - 9+430 LT							27						
9+495 LT							9						
9+532 - 9+672 LT							159						
9+556 LT							9						
Sub - Totals Carried Forward:	0		0		0		4870						
TOTALS	(P)		(P)		(P)		(P)						
UNIT	m		each		m		m						
ITEM No.	54		55		56		57						
Reference													

1. Gate removals included within Fence removal quantities.

CHKD. _____
APPR. _____
DATE _____

Removal of C&G, MH's, CB's, DI's Culverts, Fence

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
71

Location and Position	Removal of Concrete Curb and Gutter [Roadway]		Removal of Maintenance Holes, Catchbasins, Ditch Inlets and Valve Chambers		Removal of Pipe Culverts and Sewers [Culverts]		Removal of Fence [Highway]							References
Sub - Totals Brought Forward:	0		0		0		4870							
9+612 RT							21							
9+664 - 9+805 RT							141							
9+668 RT							23							
9+713 - 9+724 RT							79							
9+713 12.2 LT					10									
9+735 - 9+938 LT							204							
9+761 CL					24									
9+807 17.6 RT					6									
9+809 - 10+354 RT							547							
9+813 RT							4							
9+813 - 9+821 RT							53							
9+911 CL					25									
9+912 CL					25									
9+943 - 10+146 LT							227							
9+972 CL					25									
10+095 CL					22									
10+150 9.5 LT					12									
10+185 - 10+505 LT							321							
10+341 LT							17							
Sub - Totals Carried Forward:	0		0		149		6507							
TOTALS	(P)		(P)		(P)		(P)							
UNIT	m		each		m		m							
ITEM No.	54		55		56		57							
Reference														
														CHKD. _____ APPR. _____ DATE _____

Removal of C&G, MH's, CB's, DI's Culverts, Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Removal of Concrete Curb and Gutter [Roadway]		Removal of Maintenance Holes, Catchbasins, Ditch Inlets and Valve Chambers		Removal of Pipe Culverts and Sewers [Culverts]		Removal of Fence [Highway]							References
Sub - Totals Brought Forward:	0		0		149		6507							
10+359 - 10+512 RT							153							
10+502 - 10+527 10.9 RT	25													
10+569 - 10+595 12.2 - 20.6 LT	33													
10+581 - 10+596 8.1 - 10.6 RT	16													
10+590 15.6 LT			1											
10+592 - 10+619 RT							27							
10+605 - 10+634 21.2 - 19.4 LT	38													
10+642 - 10+646 21.1 - 11.6 LT	11													
Ravenshoe Rd. ¹														
9+473 CL					16									
9+476 - 9+561 LT							85							
9+509 - 9+630 RT							131							
9+585 12.4 LT					8									
9+588 - 9+594 9.6 - 16.7 LT	11													
9+603 - 9+649 16.8 - 19.4 LT (NW Quadrant)	57													
9+610 9.2 RT			1											
9+610 - 9+632 8.5 - 18.3 RT (SW Quadrant)	25													
9+625 - 9+644 6.1 - 26.8 RT Island (SW Quadrant)	69													
Sub - Totals Carried Forward:	285		2		173		6903							
TOTALS	(P)		(P)		(P)		(P)							
UNIT	m		each		m		m							
ITEM No.	54		55		56		57							
Reference														
1. Gate removals included within Fence removal quantities.														CHKD. _____ APPR. _____ DATE _____

Removal of C&G, MH's, OB's, DI's Culverts, Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Removal of Concrete Curb and Gutter [Roadway]		Removal of Maintenance Holes, Catchbasins, Ditch Inlets and Valve Chambers		Removal of Pipe Culverts and Sewers [Culverts]		Removal of Fence [Highway]							References
Sub - Totals Brought Forward:	285		2		173		6903							
9+664 - 9+699 21.5 - 5.0 RT (SE Quadrant)	44													
9+670 - 9+699 28.8 - 7.8 LT (NE Quadrant)	43													
9+675 - 10+035 RT							369							
9+682 - 9+758 LT							85							
9+763 - 9+842 LT							83							
9+869 10.4 LT					6									
9+873 - 9+917 LT							44							
10+039 10.9 RT					9									
10+042 - 10+063 RT							21							
10+043 10.3 LT					7									
10+056 10.3 LT					7									
Boag Road ¹														
9+700 - 9+765 LT							65							
9+769 5.2 LT					13									
9+771 - 10+092 LT							336							
10+092 - 10+193 RT							101							
10+205 - 10+221 RT							16							
10+234 CL					12									
Sub - Totals Carried Forward:	372		2		227		8023							
(P) (P) (P) (P)														
TOTALS														
UNIT	m		each		m		m							
ITEM No.	54		55		56		57							
Reference														
1. Gate removals included within Fence removal quantities.														CHKD. _____ APPR. _____ DATE _____

Removal of C&G, MH's, OB's, DI's Culverts, Fence

SHEET
74

Contract No.

[illegible]

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Rip Rap	(+ Geotextile) [Class II],[Non Woven], [45-90um],[1 mm]		Gravel Sheeting [500mm]		Geotextile [Class II],[Non Woven] [75-150um],[1 mm]								References
Sub - Totals Brought Forward:														
Highway 404														
33+890 52.8 RT	16	21												
33+890 CL	16	21												
33+890 45.9 RT	16	21												
33+914 83.1 RT (SWM Pond 6)	20	26												
33+931 94.5 RT (SWM Pond 6)	240	261												
34+039 81.2 RT	16	21												
34+636 141.3 RT	16	21												
34+680 42.7 LT	16	21												
34+694 CL	16	21												
34+700 107.9 RT (SWM Pond 7)	72	83												
34+712 49.9 RT (SWM Pond 7)	16	21												
34+712 94.5 RT	20	26												
35+018 51.4 RT	24	33												
35+047 52.5 RT	26	35												
35+058 109.4 LT	16	21												
35+075 55.6 LT	8	12												
35+102 80.6 LT (SWM Pond Holborn Road)	210	229												
35+103 69.0 LT (SWM Pond Holborn Road)	20	26												
Sub - Totals Carried Forward:	784	920		0		0								
TOTALS	(P)	(P)		(P)		(P)								
UNIT	m2	m2		m2		m2								
ITEM No.	58			59		60								
Reference														
CHKD. _____ APPR. _____ DATE _____														Rip Rap, Gravel Sheeting & Geotextile

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
76

Location and Position	Rip Rap	(+ Geotextile) [Class II],[Non Woven], [45-90um],[1mm]		Gravel Sheetting [500mm]		Geotextile [Class II],[Non Woven] [75-150um],[1 mm]								References
Sub - Totals Brought Forward:	784	920		0		0								
35+117 67.8 LT (SWM Pond Holborn Road)	20	26												
35+140 CL	16	21												
35+140 50.5 LT	8	12												
36+280 45.4 RT	6	9												
36+280 CL	6	9												
36+280 49.0 LT	10	15												
36+290 77.3 LT (SWM Pond 8)	20	26												
36+316 108.7 LT (SWM Pond 8)	221	239												
36+468 120.1 RT	16	21												
36+940 57.2 LT	4	7												
36+980 57.4 RT	4	7												
37+065 40.0 LT	4	7												
37+085 46.2 LT	14	19												
37+091 46.0 RT	4	7												
37+100 7.7 LT	28	35												
37+112 39.6 RT	12	17												
37+120 41.1 LT	9	13												
37+124 CL	9	13												
Sub - Totals Carried Forward:	1195	1423		0		0								
TOTALS	(P)	(P)		(P)		(P)								
UNIT	m2	m2		m2		m2								
ITEM No.	58			59		60								
Reference														
CHKD. _____ APPR. _____ DATE _____														Rip Rap, Gravel Sheetting & Geotextile

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
77

Location and Position	Rip Rap	(+ Geotextile) [Class II],[Non Woven], [45-90um],[1mm]		Gravel Sheeting [500mm]		Geotextile [Class II],[Non Woven] [75-150um],[1 mm]								References
Sub - Totals Brought Forward:	1195	1423		0		0								
37+130 40.3 RT	9	13												
38+574 47.4 RT	10	15												
38+574 CL	6	9												
38+574 44.3 LT	6	9												
S-N/S Ramp														
10+350 12.3 RT	10	15												
10+433 66.5 RT (SWM Pond 9)	25	31												
10+446 110.1 RT (SWM Pond 9)	264	285												
10+533 58.1 RT	16	21												
10+670 15.0 RT	10	15												
10+670 10.8 LT	15	20												
N-S Ramp														
10+339 12.4 RT	8	12												
10+495 12.9 RT	8	12												
10+495 16.1 LT	8	12												
Woodbine Ave.														
9+713 22.3 RT	15	20												
Sub - Totals Carried Forward:	1605	1912		0		0								
TOTALS	(P)			(P)		(P)								
UNIT	m2	m2		m2		m2								
ITEM No.	58			59		60								
Reference														
CHKD. _____ APPR. _____ DATE _____														

Rip Rap, Gravel Sheeting & Geotextile

Contract No.[illegible]

Contract No.[illegible]

SHEET
80

[illegible]

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [Double Yellow, 10cm]	Pavement Marking [3-6-3] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [3-3-3] [White, 10cm]	Pavement Marking [Solid] [White, 20cm]	Pavement Marking [Solid] [White, 45cm]		Pavement Marking Symbols [Disable Symbol]					References
Sub - Totals Brought Forward:														
Woodbine Ave. (North Bound)														
9+338 - 9+676 RT (Median)	341													
9+338 - 9+695 RT				357										
9+753 - 10+518 RT				765										
10+013 - 10+496 RT (Median)	486													
10+238 - 10+526 RT				578										
10+238 - 10+526 RT (45 Degree Angles)							855							
10+572 - 10+790 RT				218										
10+602 - 10+787 CL (Median)	188													
10+602 - 10+709 RT (Median)	107													
10+602 - 10+709 RT (Median)	107													
10+709 - 10+790 RT (Median)		162												
Woodbine Ave. (South Bound)														
9+338 - 9+588 LT						500								
9+338 - 9+679 LT (Median)	341													
9+588 - 9+690 LT				102										
9+734 - 10+004 LT				274										
9+788 - 9+999 LT (Median)	211													
Sub - Totals Carried Forward:	1781	162	0	2294	0	500	855		0					
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)	(P)		(P)					
UNIT	m	m	m	m	m	m	m		each					
ITEM No.		62							63					
Reference														
CHKD. _____ APPR. _____ DATE _____														Pavement Marking and Symbol

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [Double Yellow, 10cm]	Pavement Marking [3-6-3] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [3-3-3] [White, 10cm]	Pavement Marking [Solid] [White, 20cm]	Pavement Marking [Solid] [White, 45cm]		Pavement Marking Symbols [Disable Symbol]					References
Sub - Totals Brought Forward:	1781	162	0	2294	0	500	855		0					
10+013 - 10+496 LT (Median)	485													
10+183 - 10+213 LT				33										
10+184 - 10+213 LT				31										
10+249 - 10+483 LT				234										
10+572 - 10+712 LT (45 Degree Angles)							270							
10+601 - 10+790 LT				190										
10+787 - 10+790 LT (Median)		8												
Ravenshoe Rd. (East Bound)														
9+251 - 9+612 RT				361										
9+401 - 9+605 RT (Median)	204													
9+713 - 9+965 RT (Median)	252													
9+723 - 9+865 RT				142										
9+865 - 10+115 RT						500								
9+965 - 10+115 RT	150													
Ravenshoe Rd. (West Bound)														
9+226 - 9+501 CL						550								
9+251 - 9+401 CL	150													
9+401 - 9+605 LT (Median)	204													
Sub - Totals Carried Forward:	3226	170	0	3285	0	1550	1125		0					
	(P)	(P)	(P)	(P)	(P)	(P)	(P)		(P)					
TOTALS														
UNIT	m	m	m	m	m	m	m		each					
ITEM No.		62							63					
Reference														
														CHKD. _____ APPR. _____ DATE _____

Pavement Marking and Symbol

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [Double Yellow, 10cm]	Pavement Marking [3-6-3] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [3-3-3] [White, 10cm]	Pavement Marking [Solid] [White, 20cm]	Pavement Marking [Solid] [White, 45cm]		Pavement Marking Symbols [Disable Symbol]				References
Sub - Totals Brought Forward:	3226	170	0	3285	0	1550	1125		0				
9+501 - 9+578 LT				77									
9+697 - 10+115 LT				418									
9+713 - 9+965 LT	253												
Holborn Road													
9+900 - 9+900 (Cul-de-sac)				102									
10+096 - 10+096 (Cul-de-sac)				102									
Boag Road													
9+945 - 10+055 CL	110												
Commuter Parking Lot									5				
10+019 - 10+071 LT				52									
10+028 - 10+108 RT				95									
10+061 - 10+089 LT	30												
10+061 - 10+108 RT	54												
Sub - Totals Carried Forward:	3673	170	0	4131	0	1550	1125		5				
	3673	170	0	4131	0	1550	1125						
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)	(P)		(P)				
UNIT	m	m	m	m	m	m	m		each				
ITEM No.		62							63				
Reference													
CHKD. _____ APPR. _____ DATE _____													Pavement Marking and Symbol

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
84

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:													
S-N/S Ramp													
10+326 - 10+691 LT	367												
10+326 - 10+663 CL					112								
10+326 - 10+679 RT			350										
10+539 - 10+663 RT				62									
10+663 - 10+695 CL			32										
10+663 - 10+695 RT			32										
10+676 RT											1		
10+679 LT											1		
10+679 RT											1		
10+695 CL (Stopbar)										68			
10+696 (Crosswalk)			17										
10+699 (Crosswalk)			19										
N-S Ramp													
10+035 RT											1		
10+095 RT											1		
10+224 - 10+740 RT			513										
10+224 - 10+547 CL					108								
Sub - Totals Carried Forward:	367	0	963	62	220	0	0	0	0	0	68	5	0
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pavement Marking Durable

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

85

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	367	0	963	62	220	0	0	0	0	68	5	0	
10+234 - 10+397 LT	165												
10+397 - 10+437 LT			41										
10+409 - 10+409 LT			5										
10+437 - 10+485 LT		96											
10+485 - 10+740 LT				128									
10+485 - 10+740 LT	255												
10+547 - 10+740 CL						48							
S-S Ramp													
10+015 - 10+133 CL	121												
10+015 - 10+085 RT			78										
Woodbine Ave. (North Bound)													
9+468 - 9+702 RT					78								
9+648 - 9+679 RT				12									
9+679 - 9+702 RT			30										
9+690 RT											1		
9+702 (Stopbar)										50			
9+704 (Crosswalk)			11										
9+706 (Crosswalk)			11										
Sub - Totals Carried Forward:	908	96	1139	202	298	48	0	0	0	118	6	0	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Pavement Marking Durable

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	908	96	1139	202	298	48	0	0	0	118	6	0	
9+707 - 9+725 CL									24				
9+723 - 9+743 CL									30				
9+727 - 9+741 CL									20				
9+743 - 9+999 RT					85								
9+788 - 9+999 RT (Median)	211												
9+788 - 9+939 RT				76									
9+863 RT											1		
9+892 RT											1		
9+923 RT											1		
9+939 - 9+999 RT			60										
9+952 RT											1		
9+982 RT											1		
10+017 - 10+237 RT				110									
10+017 - 10+527 RT					170								
10+035 RT											1		
10+090 RT											1		
10+150 RT											1		
10+210 RT											1		
Sub - Totals Carried Forward:	1119	96	1199	388	553	48	0	0	74	118	15	0	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													
													CHKD. _____ APPR. _____ DATE _____

Pavement Marking Durable

Contract No.

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	1119	96	1199	388	553	48	0	0	74	118	15	0	
10+270 RT											1		
10+330 RT											1		
10+357 - 10+468 RT				56									
10+390 RT											1		
10+420 RT											1		
10+451 RT											1		
10+468 - 10+527 RT			60										
10+472 RT											1		
10+510 RT											2		
10+526 RT (Stopbar)										90			
10+527 (Crosswalk - York Region)							62						
10+530 (Crosswalk - York Region)							63						
10+568 (Crosswalk - York Region)							60						
10+571 (Crosswalk - York Region)							54						
10+572 - 10+790 RT					73								
Woodbine Ave. (South Bound)													
9+338 - 9+588 LT									250				
9+588 - 9+704 LT					39								
Sub - Totals Carried Forward:	1119	96	1259	444	665	48	239	0	324	208	23	0	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													

CHKD. _____
 APPR. _____
 DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	1119	96	1259	444	665	48	239	0	324	208	23	0	
9+704 (Crosswalk)			13										
9+706 (Crosswalk)			15										
9+742 LT (Stopbar)										45			
9+742 - 9+999 LT					86								
9+742 - 9+827 LT			85										
9+758 LT											1		
9+788 LT											1		
9+820 LT											1		
9+827 - 9+969 LT				71									
9+852 LT											1		
10+008 - 10+249 LT			242										
10+011 - 10+527 LT					172								
10+165 - 10+249 LT			84										
10+176 - 10+526 LT					117								
10+303 LT											2		
10+364 LT											2		
10+571 LT (Stopbar)										90			
10+571 - 10+601 LT								30					
10+571 - 10+626 LT				18									
Sub - Totals Carried Forward:	1119	96	1698	533	1040	48	239	30	324	343	31	0	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
TOTALS													
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	1119	96	1698	533	1040	48	239	30	324	343	31	0	
10+571 - 10+790 LT					73								
10+572 - 10+712 LT			280										
10+589 CL											1		
10+619 CL											1		
10+712 - 10+787 LT				38									
Ravenshoe Rd. (East Bound)													
9+401 - 9+574 RT				87									
9+456 - 9+634 RT					59								
9+528 RT											1		
9+558 RT											1		
9+574 - 9+634 RT			60										
9+588 RT											1		
9+618 RT											1		
9+634 RT (Stopbar)										72			
9+636 (Crosswalk - York Region)							50						
9+638 (Crosswalk - York Region)							53						
9+679 (Crosswalk - York Region)							51						
9+681 (Crosswalk - York Region)							45						
Sub - Totals Carried Forward:	1119	96	2038	658	1172	48	438	30	324	415	37	0	
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Pavement Marking Durable

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET

90

Location and Position	Pavement Marking, Durable [Solid, Yellow, 10cm]	Pavement Marking, Durable [Solid, Yellow, 20cm]	Pavement Marking, Durable [Solid, White, 10cm]	Pavement Marking, Durable [3-3-3, White, 10cm]	Pavement Marking, Durable [3-6-3, White, 10cm]	Pavement Marking, Durable [3-9-3, White, 10cm]	Pavement Marking, Durable [Solid, White, 15cm]	Pavement Marking, Durable [1-1-1, White, 20cm]	Pavement Marking, Durable [3-3-3, White, 20cm]	Pavement Marking, Durable [Solid, White 45cm]	Pavement Marking Symbols, Durable [Arrows]	Pavement Marking Symbols, Durable [Wheelchair]	References
Sub - Totals Brought Forward:	1119	96	2038	658	1172	48	438	30	324	415	37	0	
9+681 - 9+865 RT					61								
9+865 - 10+110 RT									245				
Ravenshoe Rd. (West Bound)													
9+251 - 9+501 LT									250				
9+501 - 9+636 LT					45								
9+683 LT (Stopbar)										59			
9+683 - 9+743 LT			60										
9+684 - 9+913 LT					76								
9+700 LT											1		
9+730 LT											1		
9+743 - 9+965 LT				111									
9+760 LT											1		
9+790 LT											1		
9+822 LT											1		
Commuter Parking Lot													
10+016 (Crosswalk)			29										
10+019 (Crosswalk)			25										
Sub - Totals Carried Forward:	1119	96	2152	769	1354	48	438	30	819	474	42	0	
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
UNIT	m	m	m	m	m	m	m	m	m	m	each	each	
ITEM No.		64										65	
Reference													
CHKD. _____ APPR. _____ DATE _____													

Pavement Marking Durable

SHEET
91

Contract No.[illegible]

90-02

PH-D-502

MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

SHEET
92

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:														
STAGE 2														
Woodbine Ave.														
9+338 - 10+526 RT			1188											
9+338 - 10+529 CL		2382												
9+338 - 10+493 LT			1156											
10+214 - 10+344 LT				65										
10+274 - 10+344 RT				35										
10+344 - 10+459 RT				58										
10+344 - 10+529 RT					62									
10+344 - 10+529 LT					62									
10+460 RT								1						
10+459 - 10+529 RT			70											
10+493 - 10+527 LT			34											
10+515 RT								1						
10+526 - 10+544 RT			23											
10+527 - 10+536 LT			11											
10+529 RT						50								
10+559 - 10+569 LT			10											
10+563 - 10+576 RT			15											
Sub - Totals Carried Forward:	0	2382	2507	158	124	50		2						
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
CHKD. _____ APPR. _____ DATE _____														Temporary Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	0	2382	2507	158	124	50		2						
10+569 - 10+790 LT			221											
10+574 - 10+649 LT				75										
10+574 LT						45								
10+574 - 10+790 LT					72									
10+574 - 10+790 CL		432												
10+574 - 10+790 RT					72									
10+576 - 10+790 RT			215											
10+588 LT								1						
10+648 LT								1						
10+649 - 10+764 LT					58									
Ravenshoe Rd.														
9+251 - 9+636 LT			385											
9+385 - 9+565 CL	180													
9+385 - 9+624 RT			239											
9+526 - 9+595 RT				35										
9+565 - 9+634 CL		138												
9+595 RT								1						
9+595 - 9+634 RT			39											
Sub - Totals Carried Forward:	180	2952	3606	268	326	95		5						
	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
TOTALS														
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
														CHKD. _____ APPR. _____ DATE _____

Temporary Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	180	2952	3606	268	326	95		5						
9+623 RT								1						
9+624 - 9+635 RT			11											
9+634 RT						45								
9+636 - 9+645 LT			10											
9+674 - 9+688 LT			15											
9+675 - 9+695 RT			20											
9+680 LT						23								
9+680 - 9+919 CL		478												
9+688 - 10+115 LT			427											
9+695 - 10+115 RT			420											
9+919 - 10+115 CL	196													
STAGE 3														
Woodbine Ave.														
9+338 - 10+518 RT			1180											
9+338 - 10+520 LT			1182											
9+338 - 10+529 CL	1191													
10+214 - 10+344 LT				65										
Sub - Totals Carried Forward:	1567	3430	6871	333	326	163		6						
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
CHKD. _____ APPR. _____ DATE _____														Temporary Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	1567	3430	6871	333	326	163		6						
10+241 - 10+344 RT				52										
10+344 - 10+432 RT				44										
10+344 - 10+459 RT				58										
10+344 - 10+529 LT					62									
10+344 - 10+529 RT					62									
10+432 - 10+529 RT			97											
10+435 RT								1						
10+459 - 10+529 RT			70											
10+461 RT								1						
10+477 RT								1						
10+520 - 10+531 RT			14											
10+522 RT								2						
10+529 RT						72								
10+558 - 10+572 LT			15											
10+568- 10+790 RT			222											
10+572 - 10+790 LT			218											
10+574 LT						45								
10+574 - 10+649 LT			75											
10+574 - 10+790 LT					72									
Sub - Totals Carried Forward:	1567	3430	7582	487	522	280		11						
	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
TOTALS														
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
CHKD. _____ APPR. _____ DATE _____														

Temporary Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	1567	3430	7582	487	522	280		11						
10+574 - 10+790 CL	216													
10+574 - 10+790 RT					72									
10+580 LT								1						
10+647 LT								1						
10+649 - 10+764 LT				58										
Ravenshoe Rd.														
9+251 - 9+628 RT			377											
9+251 - 9+634 CL														
9+251 - 9+635 LT			384											
9+459 - 9+574 RT				58										
9+538 - 9+634 LT			96											
9+574 RT								1						
9+574 - 9+634 RT			60											
9+624 RT								1						
9+628 - 9+640 RT			14											
9+634 RT						36								
9+635 - 9+648 LT			15											
9+676 - 9+693 RT			24											
Sub - Totals Carried Forward:	1783	3430	8552	603	594	316		15						
	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
TOTALS														
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
CHKD. _____ APPR. _____ DATE _____														Temporary Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	1783	3430	8552	603	594	316		15						
9+680 LT						54								
9+680 - 9+740 LT			60											
9+680 - 10+115 CL	435													
9+687 LT								1						
9+693 - 10+110 LT			417											
9+723 - 10+115 RT			392											
9+739 LT								1						
9+740 - 9+895 LT				78										
STAGE 4														
Woodbine Ave.														
9+338 - 9+708 CL	370													
9+338 - 9+708 CL	370													
9+338 - 10+514 LT			1176											
9+338 - 10+518 RT			1180											
9+742 - 10+527 CL	785													
9+743 - 10+527 CL	784													
10+047 - 10+238 RT				96										
Sub - Totals Carried Forward:	4527	3430	11777	777	594	370		17						
	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
TOTALS														
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
														CHKD. _____ APPR. _____ DATE _____

Temporary Pavement Marking

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00
Contract No.

SHEET
98

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	4527	3430	11777	777	594	370		17						
10+226 - 10+356 LT				65										
10+238 - 10+432 RT					65									
10+356 - 10+526 LT					57									
10+357 - 10+432 RT				38										
10+432 - 10+527 RT					32									
10+432 - 10+528 RT			96											
10+435 RT								2						
10+508 RT								2						
10+514 - 10+529 LT			17											
10+527 RT						68								
10+563 - 10+570 LT			7											
10+569 - 10+584 RT			15											
10+571 LT						63								
10+571 - 10+790 LT					73									
10+571 - 10+593 LT			22											
10+571 - 10+790 LT			220											
10+572 - 10+790 LT	219													
10+572 - 10+790 RT	218													
10+579 LT								1						
Sub - Totals Carried Forward:	4964	3430	12154	880	821	501		22						
TOTALS	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
														CHKD. _____ APPR. _____ DATE _____

Temporary Pavement Marking

90-02
PH-D-502
MINISTRY OF TRANSPORTATION - ONTARIO

QUANTITIES - MISCELLANEOUS 1

W.P. No. 2005-07-00

Contract No.

Location and Position	Pavement Marking, Temporary [Solid, Yellow, 10cm]	Pavement Marking, Temporary [Solid Double, Yellow, 10cm]	Pavement Marking, Temporary [Solid, White, 10cm]	Pavement Marking, Temporary [3-3-3, White, 10cm]	Pavement Marking, Temporary [3-6-3, White, 10cm]	Pavement Marking, Temporary [Solid, White, 45cm]		Pavement Marking Symbols, Temporary [Arrows]						References
Sub - Totals Brought Forward:	4964	3430	12154	880	821	501		22						
10+584 - 10+790 RT			206											
10+593 - 10+677 LT				41										
10+614 - 10+790 RT					59									
STA. 10+618 LT								1						
Ravenshoe Rd.														
9+251 - 9+620 RT			369											
9+251 - 9+635 LT			384											
9+251 - 9+636 CL	385													
9+256 - 9+634 CL	378													
9+401 - 9+476 RT				38										
9+476 - 9+634 RT					53									
9+480 RT								1						
9+558 RT								1						
9+620 RT								1						
9+620 - 9+635 RT			17											
9+633 RT						59								
9+679 - 9+694 LT			17											
9+681 - 10+115 CL	434													
Sub - Totals Carried Forward:	6161	3430	13147	959	933	560		26						
	(P)	(P)	(P)	(P)	(P)	(P)		(P)						
TOTALS														
UNIT	m	m	m	m	m	m		each						
ITEM No.		66						67						
Reference														
														CHKD. _____ APPR. _____ DATE _____

Temporary Pavement Marking

Contract No.[illegible]

Temporary Pavement Marking