CONSTRUCTION NOTES

SELECTED GRADING MATERIAL ON THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, SILT, DEBRIS, ORGANIC MATERIAL, AND OTHER UNSTABLE MATERIAL.

GRANULAR MATERIAL SHALL MEET THE REQUIREMENTS OF SPEC 3149.

STRIP ALL INPLACE TOPSOIL AND SLOPE DRESSING IN AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING.

BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE RECYCLED TO THE EXTENT ALLOWED IN BASE AND SURFACING ITEMS OR DISPOSED OUTSIDE THE RIGHT OF WAY IN ACCORDANCE WITH MN/DOT SPEC. 2104.3C3.

OBTAIN COMPACTION ON THE GRADING AGGREGATE BASE PORTIONS OF PERMANENT CONSTRUCTION IN ACCORDANCE WITH THE "SPECIFIED DENSITY METHOD" REQUIREMENTS.

OBTAIN COMPACTION ON TEMPORARY GRADING AND AGGREGATE BASE PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE "QUALITY COMPACTION METHOD" REQUIREMENTS.

COMPACTION OF ALL BITUMINOUS MIXTURES SHALL BE BY THE "ORDINARY COMPACTION METHOD".

FOOT NOTE:

1. AGGREGATE BASE QUANTITY INCLUDES 43500 CUBIC METERS FOR STREETS AND 2200 CUBIC METERS FOR THE BITUMINOUS PATH.
2. WEARING COURSE QUANTITY INCLUDES 7250 CUBIC METERS FOR STREETS AND 1000 CUBIC METERS FOR THE BITUMINOUS PATH.
3. USE OF GRANULAR BORROW TO BE DETERMINED BY ENGINEER.
6. DESIGN 1200 – 4020 WITH MH CAST INTO LID (SHEET C2–4)
7. 171st WEARING COURSE QUANTITY INCLUDES 74 m2 OF DRIVEWAY PAVEMENT.
8. 1050 mm RC PIPE
9. 1505 mm RC APRON
10. 1050 mm CS APRON
13. 1200 mm MH AT 0+234 NORTH
14. F & I NEENAH R–1733 OR EQUAL
15. SEE SHEET C2–4
16. AT 0+245 NORTH
17. AT 0+063 NORTH
18. ESTIMATED QUANTITY TO RESTORE EROSION OF SLOPES.
19. CSAH 13 DETOUR
20. CSAH 12 DETOUR

STATEMENT OF ESTIMATED QUANTITIES

FOOT NOTE	SPEC REF	ITEM	UNIT	TYLER STREET S.P.204–133–01	TYLER STREET S.P.204–020–03	CSAH 13 S.P. 71–613–08	171ST AVE S.P. 204–132–03	TOTAL QUANTITIES	FINAL QUANTITIES
	2021.501	MOBILIZATION	LS	0.34	0.33	0.33	–	1	
	2041.610	TRAINEES	HOUR	750	750	–	–	1500	
	2104.501	REMOVE METAL CULVERT	m	35	135	–	–	170	
8	2104.501	REMOVE CONCRETE CULVERT	m	23	–	–	–	23	
	2104.501	REMOVE CURB AND GUTTER	m	258	–	–	–	258	
	2104.503	REMOVE BITUMINOUS PAVEMENT	m2	5105	2976	–	–	8081	
9	2104.509	REMOVE CONCRETE APRON	EACH	1	–	–	–	1	
	2104.509	SALVAGE CASTING	EACH	1	–	–	–	1	
	2104.509	REMOVE METAL APRON	EACH	–	2	–	–	2	
	2104.509	REMOVE MANHOLE	EACH	1	–	–	–	1	
	2104.513	SAWING BITUMINOUS PAVEMENT	m	108	–	31	–	139	
10	2104.523	SALVAGE METAL APRON	EACH	1	–	–	–	1	
	2105.501	COMMON EXCAVATION (P)	m3	1470	5330	–	–	6800	
	2105.511	COMMON CHANNEL EXCAVATION (P)	m3	4050	–	–	–	4050	
3	2105.522	SELECT GRANULAR BORROW (LV)	m3	–	7500	–	–	7500	
	2105.523	COMMON BORROW FROM STOCKPILE (SV)	m3	4450	–	–	–	4450	
	2105.525	TOPSOIL BORROW FROM STOCKPILE (SV)	m3	800	700	–	–	1500	
18	2105.604	GEOTEXTILE FABRIC, TYPE V	m2	–	6300	–	–	6300	
	2123.509	DOZER/W OPERATOR	HOUR	16	8	–	–	24	
1	2211.501	AGGREGATE BASE, CLASS V	t	32 700	13 094	–	–	45 794	
	2221.501	AGGREGATE SHOULDERING CLASS V	t	–	–	110	–	110	
	2232.501	MILL BITUMINOUS SURFACE (25 mm)	m2	159	12	–	–	171	
2,7	2340.508	TYPE 41 WEARING COURSE MIXTURE	t	4832	2138	1450	–	8470	
	2340.510	TYPE 31 BINDER COURSE MIXTURE	t	4200	1866	–	–	6066	
	2340.514	TYPE 31 BASE COURSE MIXTURE	t	8041	3564	–	–	11 605	
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	L	21 078	8491	2800	–	32 369	
	2501.515	300 mm RC PIPE APRON	EA	–	1	–	–	1	
	2501.515	375 mm RC PIPE APRON	EA	–	1	–	–	1	
	2501.515	600 mm RC PIPE APRON	EA	2	–	–	–	2	
	2501.515	900 mm RC PIPE APRON	EA	2	–	–	–	2	
	2501.515	1350 mm RC PIPE APRON	EA	1	–	–	–	1	
	2501.602	TRASH GUARD FOR 600 mm PIPE APRON	EA	2	–	–	–	2	
	2501.602	TRASH GUARD FOR 900 mm PIPE APRON	EA	1	–	–	–	1	
10	2501.573	INSTALL METAL APRON	EA	1	–	–	–	1	
	2503.511	1050 mm CS PIPE SEWER	m	3	–	–	–	3	
	2503.541	300 mm RCP PIPE SEWER DES 3006 CL 5	m	–	3	–	–	3	
	2501.602	TRASH GUARD FOR 1350 mm PIPE APRON	EA	1				1	
	2503.541	375 mm RCP PIPE SEWER DES 3006 CL V	m	1033	423	–	–	1456	
	2503.541	450 mm RCP PIPE SEWER DES 3006 CL V	m	296	330	–	–	626	
	2503.541	525 mm RCP PIPE SEWER DES 3006 CL III	m	558	–	–	–	558	
	2503.541	525 mm RCP PIPE SEWER DES 3006 CL V	m	–	88	–	–	88	
	2503.541	600 mm RCP PIPE SEWER DES 3006 CL III	m	113	–	–	–	113	
	2503.541	600 mm RCP PIPE SEWER DES 3006 CL V	m	231	26	–	–	257	
	2503.541	675 mm RCP PIPE SEWER DES 3006 CL III	m	–	62	–	–	47	
	2503.541	750 mm RCP PIPE SEWER DES 3006 CL III	m	22	–	–	–	22	
	2503.541	900 mm RCP PIPE SEWER DES 3006 CL III	m	20	–	–	–	20	
	2503.541	1050 mm RCP PIPE SEWER DES 3006 CL III	m	311	–	–	–	311	
	2503.541	1050 mm RCP PIPE SEWER DES 3006 CL V	m	284	–	–	–	284	
	2503.541	1200 mm RCP PIPE SEWER DES 3006 CL III	m	125	–	–	–	125	
	2503.541	1350 mm RCP PIPE SEWER DES 3006 CL III	m	52	–	–	–	52	
	2503.541	1350 mm RCP PIPE SEWER DES 3006 CL V	m	489	–	–	–	489	
	2503.603	600 mm STEEL CASING PIPE (JACKED)	m	39	–	–	–	39	
	2504.601	SPRINKLER SYSTEM	LS	0.4	0.6	–	–	1	
	2504.602	25 mm CORPORATION STOP	EA	–	1	–	–	1	
	2504.602	50 mm CORPORATION STOP	EA	4	1	–	–	5	
	2504.602	25 mm CURB STOP & BOX	EA	–	1	–	–	1	
	2504.602	50 mm CURB STOP & BOX	EA	4	1	–	–	5	
	2504.603	25 mm TYPE K COPPER PIPE	m	9	9	–	–	18	
	2504.603	50 mm TYPE K COPPER PIPE	m	18	5	–	–	23	

DESIGNED BY: --- DRAWN BY: [illegible]
APPROVED: --- JOB NUMBER 800110J
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Howard R. Green Company
CONSULTING ENGINEERS
1326 ENERGY PARK DRIVE
ST. PAUL, MINNESOTA 55108
(612) 644–4589

CITY OF ELK RIVER
EASTERN AREA
TYLER STREET IMPROVEMENTS

ESTIMATED QUANTITIES
SP 71-613-08, SP 204-020-03, SP 204-133-01, SP 204-132-03

SHEET NO. G3

SAFCO PRODUCTS • NEW HOPE, MINNESOTA REORDER BY PART NUMBER 55592
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