

# STATEMENT OF ESTIMATED QUANTITIES

FOOT NOTES	SPEC NO.	ITEM DESCRIPTION	UNIT	TOTAL	S.P. 204-111-04	
					ROADWAY QUANTITIES	NON PARTICIPATING QUANTITIES
	2021.501	MOBILIZATION	LS	1	0.66	0.34
	2101.501	CLEARING	ACRE	0.58	0.58	
	2101.502	CLEARING	TREE	26		
	2101.506	GRUBBING	ACRE	0.58	0.58	
	2101.507	GRUBBING	TREE	26	26	
	2104.501	REMOVE CURB AND GUTTER	LF	24	24	
	2104.501	REMOVE PIPE CULVERTS	LF	130	130	
	2104.505	REMOVE BITUMINOUS PAVEMENT	SY	12336	12336	
	2104.505	REMOVE DRIVEWAY PAVEMENT	SY	360	360	
	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	181	181	
	2104.521	SALVAGE FENCE	LF	3104	3104	
	2104.521	SALVAGE GATE	LF	25	25	
	2104.523	SALVAGE POST	EACH	4	4	
	2104.523	SALVAGE SIGN TYPE C	EACH	6	6	
	2104.523	SALVAGE MAIL BOX	EACH	10	10	
	2105.501	COMMON EXCAVATION (P)	CY	7500	7500	
	2105.505	MUCK EXCAVATION	CY	300	300	
	2105.523	COMMON BORROW (CV)	CY	4418	4418	
	2211.501	AGGREGATE BASE CLASS 5	TON	8250	8250	
	2211.501	AGGREGATE BASE CLASS 3 - SHOULDER	TON	1950	1950	
	2232.501	MILL BITUMINOUS SURFACE (1.5")	SY	80	80	
	2331.603	SAWED / SEALED JOINT	LF	5300	5300	
	2350.501	TYPE MV 4 WEARING COURSE MIXTURE (DRIVEWAY) (MVWE 45035B)	TON	72	72	
	2350.501	TYPE MV 4 WEARING COURSE MIXTURE (TRAIL) (MVWE 45035B)	TON	711	711	
	2350.501	TYPE MV 4 WEARING COURSE MIXTURE (MVWE 45035B)	TON	1999	1999	
	2350.502	TYPE LV 3 NON WEARING COURSE MIXTURE (LYNW 35030B)	TON	1880	1880	
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	760	760	
	2433.602	REINSTALL POST	EACH	4	4	
	2501.511	12" RC PIPE CULVERT CLASS V	LF	116	116	
	2501.511	27" RC PIPE CULVERT CLASS III	LF	100	100	
	2501.511	15" CM PIPE CULVERT	LF	400	400	
	2501.515	12" RC PIPE APRON	EACH	4	4	
	2501.515	27" RC PIPE APRON	EACH	2	2	
	2501.569	15" CS SAFETY APRON	EACH	26	26	
	2502.605	2" INSULATION	SY	312		312
	2502.605	4" INSULATION	SY	43		43
	2503.602	CONNECT TO EXISTING MANHOLES (SAN)	EACH	1		1
	2503.602	8"x4" PVC WYE	EACH	9		9
	2503.603	8" PVC PIPE SEWER	LF	2820		2820
	2503.603	4" PVC SANITARY SERVICE PIPE	LF	475		475
	2504.602	CONNECT TO EXISTING WATERMAIN	EACH	1		1
	2504.602	12" GATE VALVE AND BOX	EACH	1		1
	2504.602	16" BUTTERFLY VALVE	EACH	4		4
	2504.602	ADJUST HYDRANT	EACH	1		1
	2504.602	INSTALL HYDRANT & VALVE	EACH	6		6
	2504.602	CURB STOP & BOX	EACH	9		9
	2504.602	CORPORATION STOP	EACH	9		9
	2504.603	6" WATER MAIN-DUCT IRON CL 52	LF	151.5		151.5
	2504.603	12" WATER MAIN-DUCT IRON CL 52	LF	111		111
	2504.603	16" WATER MAIN-DUCT IRON CL 52	LF	2691		2691
	2504.603	1" COPPER SERVICE LINE	LF	413		413
	2504.620	DUCTILE IRON FITTINGS	LB	3045		3045
	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	1	1	
	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EACH	1	1	
	2506.522	ADJUST FRAME & RING CASTING	EACH	1		1
	2506.602	CONSTRUCT SANITARY MANHOLES	EACH	7		7
	2511.502	RANDOM RIPRAP CLASS IV	TON	15	15	
	2540.602	INSTALL MAIL BOX	EACH	10	10	
	2540.602	MAIL BOX SUPPORT	EACH	10	10	
	2557.603	INSTALL SALVAGED FENCE	LF	3104	3104	
	2557.603	INSTALL SALVAGED GATE	LF	25	25	
	2563.601	TRAFFIC CONTROL	LS	1	0.66	0.34
	2564.531	SIGN PANELS TYPE C	SF	82.5	82.5	
	2564.603	4" SOLID LINE WHITE-EPOXY	LF	9700	9700	
	2564.603	4" BROKEN LINE WHITE-EPOXY	LF	550	550	
	2564.603	4" DOUBLE SOLID LINE YELLOW-EPOXY	LF	4800	4800	
	2565.602	INSTALL SIGN PANEL (SALVAGED)	EACH	6	6	
	2573.501	BALE CHECK	EACH	6	6	
	2573.502	SILT FENCE, TYPE HEAVY DUTY	LF	550	550	

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					ROADWAY QUANTITIES	NON PARTICIPATING QUANTITIES
	2575.501	SEEDING	ACRE	4.5	4.5	
	2575.502	SEED MIXTURE 50 B	LB	225	225	
	2575.511	MULCH MATERIAL TYPE 1	TON	9	9	
	2575.519	DISK ANCHORING	ACRE	4.5	4.5	
	2575.532	COMMERCIAL FERTILIZER ANALYSIS 22-5-10	LB	900	900	
	SPEC	PROCTOR TEST	EACH	4		4
	SPEC	DENSITY TEST, INPLACE	EACH	12		12
	SPEC	GRADATION TEST, CLASS 5	EACH	10		10
	SPEC	PROCTOR TEST, CLASS 5	EACH	2		2
	SPEC	DENSITY TEST, CLASS 5	EACH	6		6
	SPEC	DENSITY TEST, BITUMINOUS	EACH	10		10

### BASIS FOR EST. QUANTITIES

CL 5 AGG BASE: COMPACTED DRY DENSITY - 1.86 TN/CY  
 BITUMINOUS PAVEMENT: TYPE 2350 - 1.98 TN/CY  
 BITUMINOUS TACK COAT: 0.050 GAL/SY  
 SEED: MIXTURE 50B - 50 LBS/ACRE  
 MULCH: TYPE 1 - 2 TONS/ACRE  
 FERTILIZER: TYPE 22/5/10 - 200 LBS/ACRE

### SOIL BALANCE

COMMON EXCAVATION = 7,500 CU. YD. (BM) ①  
 MUCK EXCAVATION = 300 CU. YD. (BM)

EMBANKMENT = 11,168 CU. YD. (CV) ②  
 7,500 CU. YD. (CV) x 0.9 SHRINK = 6,750 CU. YD. (BM) TO BE OBTAINED FROM EXCAVATIONS. ③

COMMON BORROW = 4,418 CU. YD. (CV)  
 4,418 CU. YD. (CV) x 1.1 SHRINK = 4,860 CU. YD. (LV) TO BE OBTAINED FROM EXCAVATIONS.

- ① (BM) REFERS TO MATERIAL IN ITS ORIGINAL POSITION. A FACTOR OF 1 WAS USED IN THIS COMPUTATION.
- ② ACTUAL QUANTITY WILL DEPEND ON SUITABLE ON-SITE MATERIAL AVAILABLE.
- ③ THE SHRINKAGE FACTORS USED ARE ASSUMED VALUES, USED ONLY FOR THE PURPOSE OF ESTIMATED QUANTITIES. THE EXCESS MATERIAL QUANTITY IS BASED ON ESTIMATED QUANTITIES. NO WARRANTY IS MADE OR IMPLIED AS TO THE ACCURACY, SUFFICIENCY OR RELIABILITY OF THESE FIGURES.
- ④ THE ABOVE NUMBERS DO NOT ACCOUNT FOR BLACK DRIT (TOPSOIL). STRIPING, STOCKPILING, AND RESPREADING IS CONSIDERED INCIDENTAL.

**RECORD PLAN**  
**JANUARY 2005**

DESIGNED BY: KJT DRAWN BY: RKM  
 APPROVED: TJM JOB NUMBER 806550J  
 CAD DATE: January 28, 2005 10:24:46 a.m.  
 CAD FILE: 806550J\AS-BUILT\MISC\806550-EQ.DWG

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 DATE \_\_\_\_\_  
 JOHN M. ANDERSON LIC. 25889

NO.	DATE	BY	REVISION DESCRIPTION

 **Howard R. Green Company**  
CONSULTING ENGINEERS

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175TH AVENUE  
CITY OF ELK RIVER  
175TH AVENUE

ESTIMATED QUANTITIES

S.P. 204-111-04

SHEET NO.

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