STATEMENT OF ESTIMATED QUANTITIES

SPEC.REF	ITEM	UNIT	QUANTITIES S.A.P.	QUANTITIES OTHER
2101.502	CLEARING	TREE	1	
2101.507	GRUBBING	TREE	1	
2104.505	REMOVE BIT. PAVEMENT	SY	1500	
2105.501	COMMON EXCAVATION	CY	790	
2112.501	SUBGRADE PREPARATION	RD.STA.	5.75	
2211.501	AGGREGATE BASE CLASS 5	TON	675	
2221.501	SHOULDER AGGREGATE CLASS 2	TON	180	
2331.514	BASE COURSE MIXTURE TYPE 31	TON	250	
2331.508	WEAR COURSE MIXTURE TYPE 41	TON	250	
2357.502	BIT TACK	GAL	70	
SPEC	SEEDING	ACRE	0.40	
SPEC	SIGNING	SF	6.25	

PAVEMENT MARKING SCHEDULE

KEY	DESCRIPTION	WIDTH	COLOR	REMARKS	LOCATION
①	STOP LINE	12"	WHITE	SOLID	ULYSSES/173RD INTERSECTION
②	CENTERLINE	4"	YELLOW	SKIP – 10' LINE 40' GAP	STA. 3+00 SOUTH TO STA. 3+00 NORTH
③	NO PASSING ZONE LINE	4"	YELLOW	SOLID	

NOTE: STRIPING WORK TO BE DONE BY OTHERS

NOTE
BURLINGTON NORTHERN RAILROAD IS CURRENTLY WORKING WITH THE STATE TO PROVIDE PAVEMENT MARKING TO ALERT MOTORISTS OF RAILROAD CROSSING. NO RAILROAD CROSSING PAVEMENT MARKING IS INCLUDED IN THIS PROJECT.

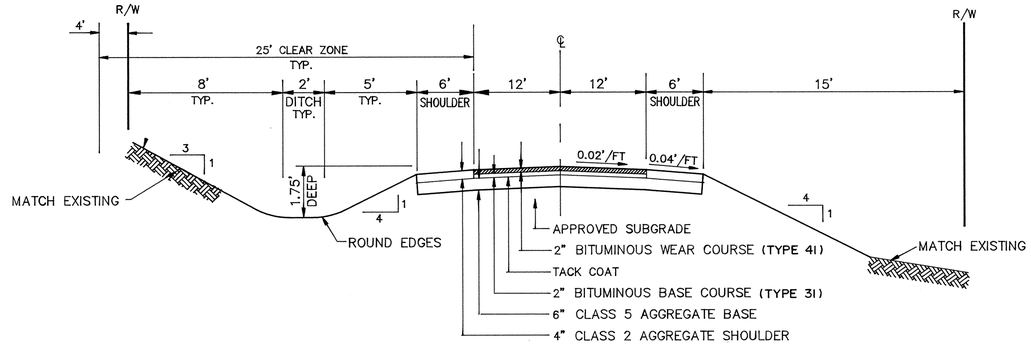
BASIS OF PLANNED QUANTITIES

AGGREGATE BASE, CLASS 5:
COMPACTED DRY DENSITY 1.86 TON/C.Y.

2331 TYPE 31 BITUMINOUS BASE COURSE:
BITUMINOUS MATERIAL – 5.0% MIXTURE BY WEIGHT
BITUMINOUS MIXTURE – 2.00 TON/C.Y.

2331 TYPE 41 BITUMINOUS WEAR COURSE:
BITUMINOUS MATERIAL – 6.0% MIXTURE BY WEIGHT
BITUMINOUS MIXTURE – 2.00 TON/C.Y.

BITUMINOUS TACK COAT:
0.05 GAL./S.Y.



TYPICAL RURAL STREET SECTION

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY

APPLICABLE STANDARD PLATES

PLATE NO.	DESCRIPTION
0005A	SPECIFICATION REFERENCE TO STANDARD PLATES
8000I	STANDARD BARRICADES
8003B	BREAKAWAY SIGN SUPPORT (PLASTIC)
9000B	APPROACHES AND ENTRANCES (MINIMUM STANDARDS)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Mark J. Graham
DATE 3/29/91 REG. NO. 19130

CONSULTING ENGINEERS
Maier Stewart & Associates Inc.
1959 SLOAN PLACE (612)774-6021 ST. PAUL, MINNESOTA 55117

REVISIONS

DATE	DESCRIPTION

DESIGNED MJG
CHECKED JEJ
DRAWN GG
GRAPHIC SCALE
0 HORIZ. 50
0 VERT. 5

CITY OF ELK RIVER
RAILROAD CROSSING IMPROVEMENTS
173RD AVENUE N.W.
S.A.P. 204-111-02

DATE MAR. 1991 SHEET 15 OF 18 SHEETS PROJECT NO. 230-110

ER110

375

DRAWING NUMBER
DRAWING NUMBER
DRAWING NUMBER
DRAWING NUMBER
FILLM.91
15