

STATEMENT OF ESTIMATED QUANTITIES			
SPEC.REF	ITEM	UNIT	QUANTITIES
2104.505	REMOVE BIT. PAVEMENT	S.Y.	2900
2104.501	REMOVE CONCRETE CURB & GUTTER	L.F.	50
2105.501	COMMON EXCAVATION	C.Y.	3434
2112.501	SUBGRADE PREPARATION	RD. STA.	27.3
2105.521	GRANULAR BORROW (CV)	C.Y.	500
2211.501	AGGREGATE BASE CLASS 5	TON	2200
2331.504	BASE COURSE MIXTURE 2331	TON	570
2331.504	BIT. MATERIAL FOR 2331 (BASE)	TON	32
2331.510	BINDER COURSE MIXTURE 2331	TON	470
2331.504	BIT. MATERIAL FOR 2331 (BINDER)	TON	26
2361.508	WEAR COURSE MIXTURE 2361	TON	290
2361.504	ASPHALT CEMENT FOR 2361	TON	19
2357.502	BIT. TACK	GAL.	287
2104.509	REMOVE & REINSTALL RCP FLARED END	EA.	2
2503.511	18" RC PIPE CLASS 3	L.F.	10
2501.515	18" RC PIPE FLARED END SECTION	EA.	1
2503.511	24" RC PIPE CLASS 3	L.F.	8
SPEC.	STRIPING	L.S.	1
SPEC.	SIGNING	L.S.	1
SPEC.	SEEDING & MULCHING	ACRE	0.7
2575.505	SODDING (EROSION CONTROL SOD)	S.Y.	800
SPEC.	BIT. CORES INPLACE DENSITY	EA.	4
SPEC.	BIT. NUCLEAR DENSITY	EA.	10
SPEC.	BIT. EXTRACTION	EA.	9
SPEC.	BIT. GRADATION	EA.	9
SPEC.	SUBGRADE PROCTOR	EA.	1
SPEC.	SUBGRADE INPLACE DENSITY	EA.	6
SPEC.	CLASS 5 GRADATION	EA.	3
SPEC.	CLASS 5 PROCTOR	EA.	1
SPEC.	CLASS 5 INPLACE DENSITY	EA.	6

BASIS OF PLANNED QUANTITIES

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

BITUMINOUS BASE COURSE:
 BITUMINOUS MATERIAL — 5.5% OF MIXTURE BY WEIGHT
 BITUMINOUS MIXTURE — 1.98 TON/C.Y.

BITUMINOUS BINDER COURSE:
 BITUMINOUS MATERIAL — 5.5% OF MIXTURE BY WEIGHT
 BITUMINOUS MIXTURE — 1.98 TON/C.Y.

BITUMINOUS WEAR COURSE:
 BITUMINOUS MATERIAL — 6.5% OF MIXTURE BY WEIGHT
 BITUMINOUS MIXTURE — 1.98 TON/C.Y.

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

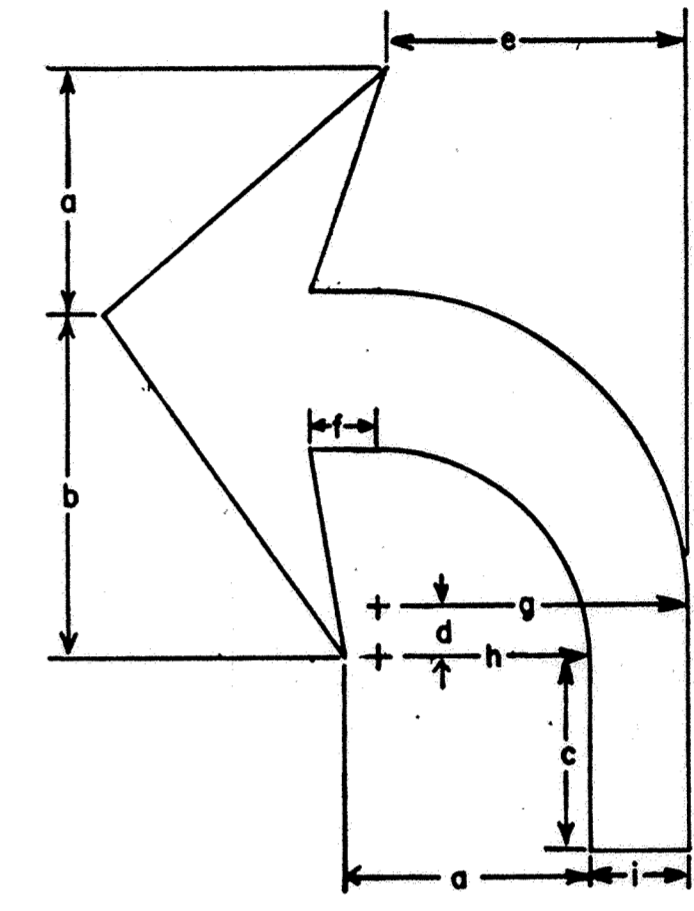
APPLICABLE STANDARD PLATES	
PLATE NO.	DESCRIPTION
0005A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000K	REINFORCED CONCRETE PIPE
3006F	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
8000I	STANDARD BARRICADES
8003B	BREAKAWAY SIGN SUPPORTS
8150B	INSTALLATION OF CULVERT MARKERS
9102C	SODDING AT PIPE CULVERT ENDS

SIGNING					
KEY	PLATE CODE	SIZE	WORDING/SYMBOL	LOCATION	
1	R3-X1	30"x30"	RIGHT TURN LANE	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 4+30 24' LEFT	
2	R3-7R	30"x30"	RIGHT LANE MUST TURN RIGHT	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 2+50 24' LEFT	
3	W9-2L	36"x36"	LANE ENDS — MERGE LEFT	U.S. HWY. 10 W. OF 165TH AVE. WESTBOUND ACCELERATION LANE STA. 5+50 24' RIGHT	
4	R3-X2	30"x30"	LEFT TURN LANE	U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 4+25 36' RIGHT	
5	R3-7L	30"x30"	LEFT LANE MUST TURN LEFT	U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 2+00 36' RIGHT	

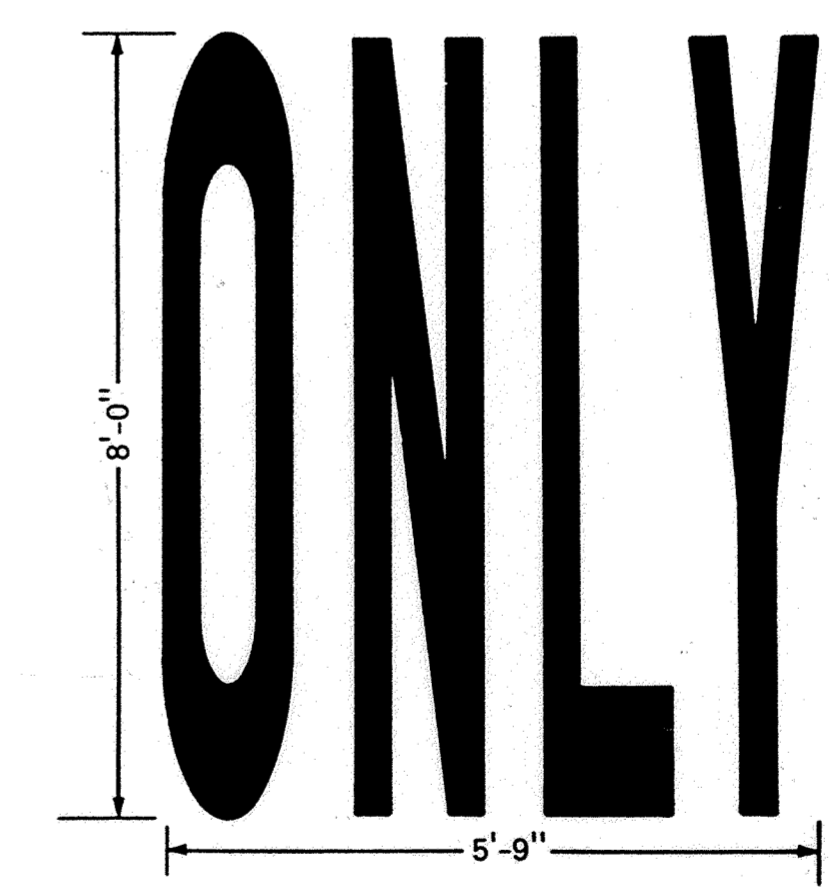
STRIPING				
KEY	MARKINGS	COLOR	QUANTITY	APPLICATION AREA
1	PAVEMENT ARROW	WHITE	2 RIGHT TURN 2 LEFT TURN	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 1+50 & 3+60 U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 3+60 & 1+50
2	PAVEMENT LETTERING "ONLY"	WHITE	2	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 2+00 & 4+10
3	4" SKIP LANE LINE (10' STRIPE, 40' GAP)	WHITE	700 L.F. (140 L.F. STRIPE)	U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 2+00 & 4+05
4	4" SOLID LANE LINE	WHITE	360 L.F.	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 0+74 TO 4+34
5	4" SOLID PAVEMENT EDGE LINE	WHITE	405 L.F.	U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 0+24 TO 4+29
6	24" SOLID STOP LINE	WHITE	540 L.F.	U.S. HWY. 10 E. OF 165TH AVE. WESTBOUND RIGHT TURN LANE STA. 0+74 TO 6+14
			585 L.F.	U.S. HWY. 10 W. OF 165TH AVE. EASTBOUND LEFT TURN LANE STA. 0+24 TO 6+09
			1300 L.F.	U.S. HWY. 10 W. OF 165TH AVE. WESTBOUND ACCELERATION LANE STA. 0+74 TO 13+74
			25 L.F.	U.S. HWY. 10 W. OF 165TH AVE. WESTBOUND ACCELERATION LANE STA. 0+00 TO 0+25 60' RIGHT

STRIPING DETAILS

SIZE DIMENSION	6' x 8'
RADIUS	
MARGIN	
BORDER	
a	2'6"
b	3'6"
c	2'
d	6"
e	3'1"
f	8"
g	3'3"
h	2'2"
i	1'
j	
k	
l	
m	
n	
o	
p	
q	
r	
s	
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v	
w	
x	
y	
z	
PUNCH CODE	



NOTES:
 (1) All dimensions are in feet and inches.
 (2) Full scale drawing available on request.



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.
Terry Maurer
 DATE 8/15/90 REG. NO. 15314

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

DATE	DESCRIPTION	DESIGNED WJCW
		CHECKED JEJ
		DRAWN GC
		GRAPHIC SCALE
		0 HORIZ.
		0 VERT.

CITY OF ELK RIVER
 TURN LANE CONSTRUCTION
 U.S. HWY. 10 & 165TH AVE. INTERSECTION

DATE AUG. 1990 SHEET 2 OF 4 SHEETS PROJECT NO. 230-100