

STATE OF MINNESOTA DEPARTMENT OF HIGHWAYS Plan and Profile of State Aid Road No. 4

From W. 1/4 COR. SECT. 25, T-30N, R-24W To JCT. FAIRWAY DRIVE & WEST UPLAND CREST, SAID JCT. BEING 226 FEET SOUTH AND 1503 FEET EAST OF CENTER, SECT. 25, T-30N, R-24W
Give proper reference to Section, Township and Range

GROSS LENGTH 4300 FEET 0.819 MILES
LENGTH OF EXCEPTIONS 0 FEET 0 MILES
NET LENGTH 4300 FEET 0.819 MILES

PLAN. Inch = 100 Feet.
PROFILE. Horz. Inch = 100 Feet. Vert. Inch = 10 Feet
WORKING PLANS { Horz. Inch = Feet
Vert. Inch = Feet
Cross-Section, Inch = 10 Feet

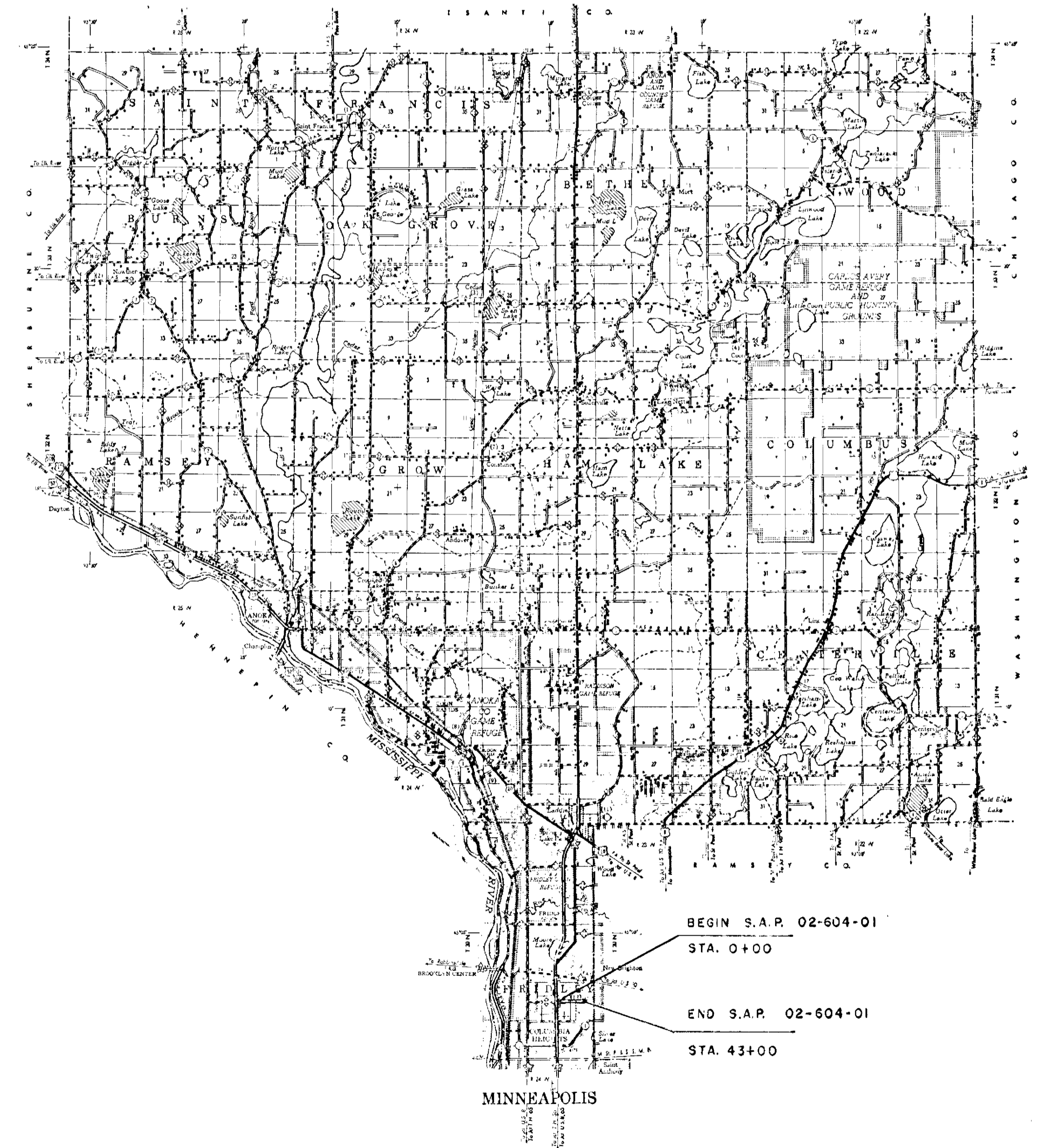
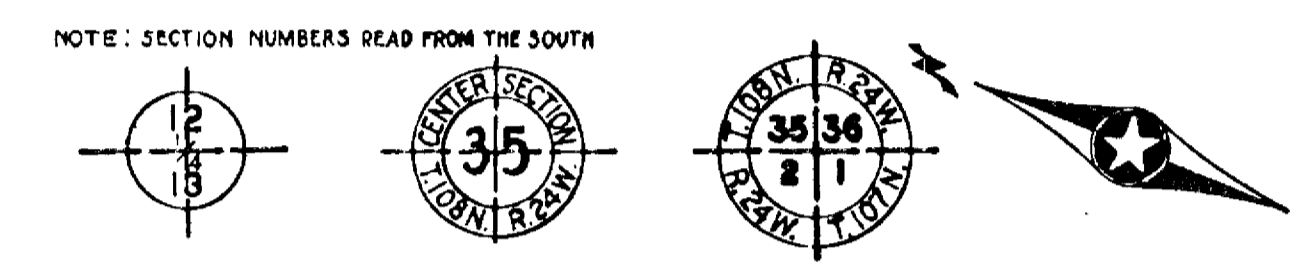
LAYOUT
Scale, Inch = 100 Feet

CONVENTIONAL SIGNS

STATE LINE	---
COUNTY LINE	----
TWP. OR RANGE LINE	-----
SECTION LINE	-----
RIGHT OF WAY LINE	=====
CORPORATE OR CITY LIMITS	=====
ROAD CENTER LINE	-----
RETAINING WALL	=====
RAILROADS	=====
CREEK	=====
DRY RUN	-----
DRAINAGE DITCH	-----
POWER POLE LINE	-----
TELEPHONE OR TELEGRAPH LINE	-----
CULVERTS - PLAIN	-----
WITH ENDWALLS	-----
WITH WINGWALLS	-----
DROP INLET	-----
FENCE LINE	-----
GRAVEL PIT	-----
SAND PIT	-----
CLAY PIT	-----
ROCK QUARRY	-----
SPRINGS	-----
MARSH	-----
BRUSH OR TIMBER	-----
HEDGE	-----
ROCK LEDGE	-----
SAND	-----
EDGE OF CUT	-----
TOE OF EMBANKMENT	-----
RAILROAD R/W LINE	-----
BUILDING (One Story Frame)	-----

ABBREVIATIONS

EXCAVATION	.....	EXC.
EARTH	.....	E.
LOOSE ROCK	.....	L.R.
SOLID ROCK	.....	S.R.
EMBANKMENT	.....	F.
OVERHAUL	.....	H.
SURFACING	.....	S.
HAND DITCHING	.....	H.D.
SPECIAL EXCAVATION	.....	S.E.
SPECIAL FLOWING	.....	S.F.
GUARD RAIL	.....	G.R.
CORRUGATED METAL CULVERT	.....	C.M. CULV.
SECTIONAL CONCRETE CULVERT	.....	S. C. CULV.
SECTIONAL CONCRETE CULVERT (heavy type)	.....	R. CULV.
TON MILES	.....	T.M.
TELEPHONE POLE	.....	TEL. P.
POWER POLE	.....	P.P.
PLACE	.....	P.
INPLACE	.....	J.N.P.
REPLACE	.....	REP.
RIGHT	.....	RT.
LEFT	.....	LT.
INTERSECTION ANGLE	.....	A.
RADIUS	.....	R.
TANGENT	.....	T.
LENGTH OF CURVE	.....	L.
POINT OF CURVE	.....	P.C.
POINT OF TANGENT	.....	P.T.
POINT OF INTERSECTION	.....	P.I.
VERTICAL CURVE	.....	V.C.
BENCH MARK	.....	B.M.
ELEVATION	.....	EL.
ACRES	.....	A.



INDEX OF SHEETS

Sheet No. 1.	Title Sheet and Layout Map
" No. 2.	Typical Cross-Sections and Statement
" No. 3.	Plan and Profile, Sta. 0+00 to Sta. 27+00
" No. 4.	" " " " 25+00 " 43+00
" NO. 5-13	CROSS SECTIONS

SPECIFICATION REFERENCE:
The specifications for Highway Construction, dated July 1, 1947, and submitted for approval by the Division Engineer of the Bureau of Public Roads October 15, 1947, as modified by 'supplement 1' thereto dated April 15, 1953, and submitted for approval by the Division Engineer of the Bureau of Public Roads on March 25, 1953, shall govern.

I HEREBY CERTIFY THAT THIS PLAN 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.
E. J. Lundheim
DATE 2-10-59 REG. NO. 2551

DESIGN SPEED 30 M. P. H.

PLANNED BY E. J. LUNDHEIM 1959
COUNTY ENGINEER FOR ANOKA COUNTY
RECOMMENDED FOR APPROVAL *Edmund Anderson* 4/24/59
DISTRICT ENGINEER
RECOMMENDED FOR APPROVAL *P. O. Hoffman* 4/22/59
APPROVED 2-21-59 *E. J. Lundheim*
STATE AID ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____
DISTRICT ENGINEER DATE _____

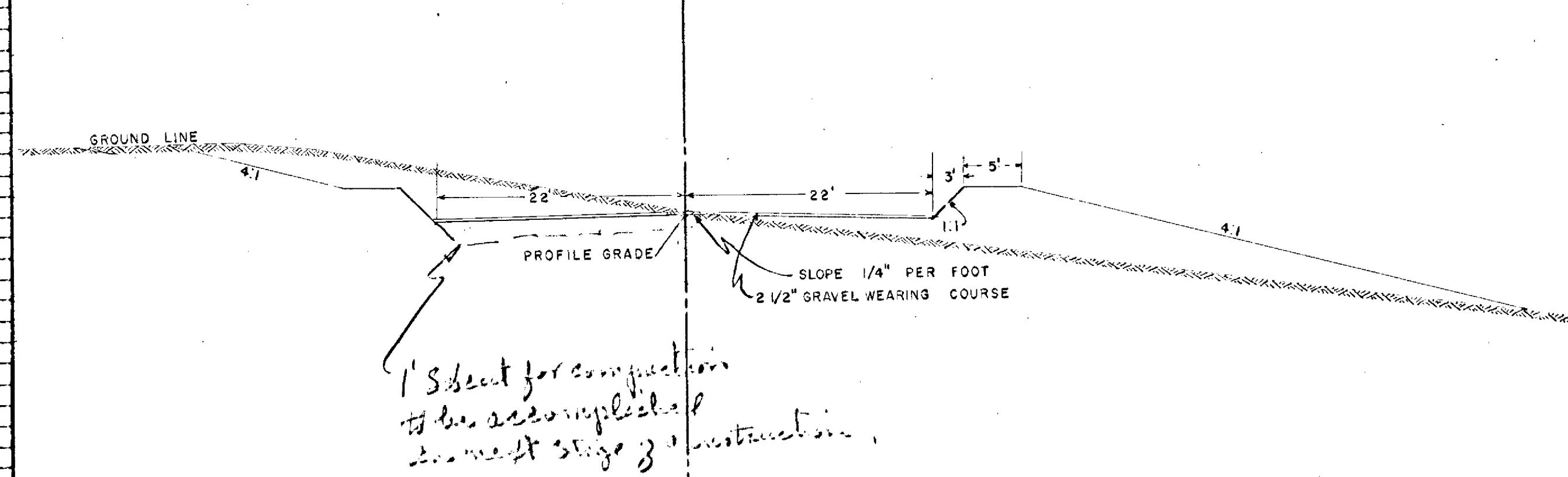
MICRO-FILMED

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5N	MINN.				

ESTIMATED QUANTITIES			
SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.501	CLEARING	ACRE	4
2101.502	CLEARING	TREE	1
2101.503	GRUBBING	ACRE	4
2101.507	GRUBBING	TREE	1
2105.501	CLASS "A" EXCAVATION	CU. YDS.	35,505
2251.527	GRAVEL WEARING COURSE IN PLACE	CU. YDS.	2,000
2501.501	PIPE CULVERT EXCAVATION	CU. YDS.	104
2501.511-12	FURNISH AND INSTALL 12" S.C.P. CULV.	LIN. FT.	172
2501.511-13	" " " " " "	LIN. FT.	50
2501.521-33	FURNISH AND INSTALL 36" S.C.P. CULV.	LIN. FT.	90
2501.521-24	FURNISH AND INSTALL 24" S.C.P. CULV.	LIN. FT.	100
2501.521-27	" " " " " "	LIN. FT.	30
2501.531	SAND GRAVEL BACKFILL	CU. YDS.	112
2515.541-24	FURNISH AND INSTALL CONC. APRON FOR S.C. 24"	APRON	2
2515.541-33	FURNISH AND INSTALL CONC. APRON FOR S.C. 36"	APRON	2
2574.501	ROADSIDE SEEDING	ACRE	4.9

* SEED TO BE FURNISHED BY ANOKA COUNTY

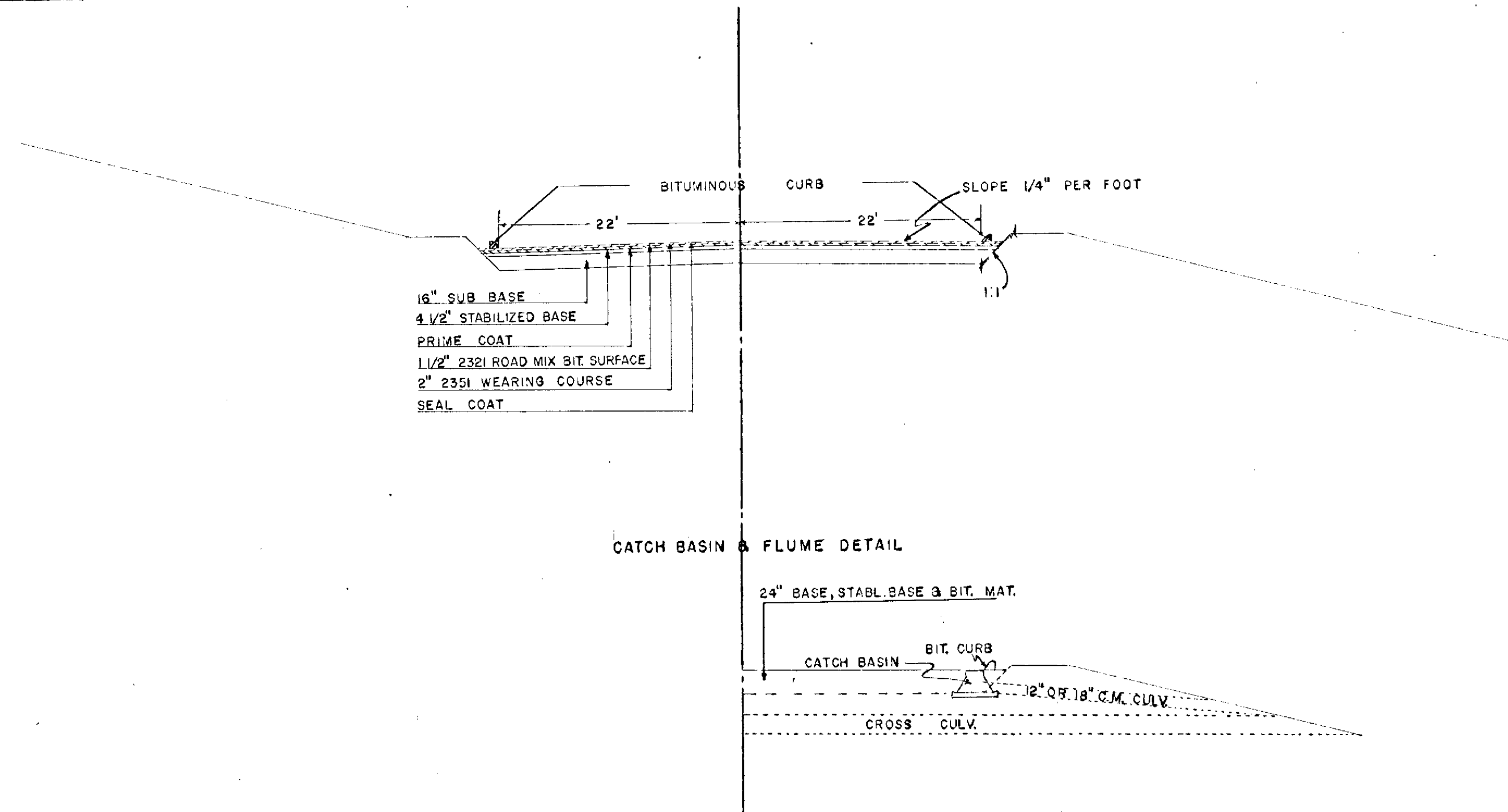
TYPICAL GRADING SECTIONS



SPECIAL DETAILS

THE UPPER 10' OF NATURAL SOIL IS CONSIDERED UNSUITABLE FOR USE IN THE UPPER 10' OF ROADWAY. THE UPPER PORTION OF THIS LAYER SHALL BE USED TO COVER DITCH BOTTOMS AND SLOPES. THE REMAINDER TO BE PLACED BELOW THE UPPER 10' OF THE EMBANKMENT.

FUTURE TYPICAL BASE & SURFACE SECTIONS

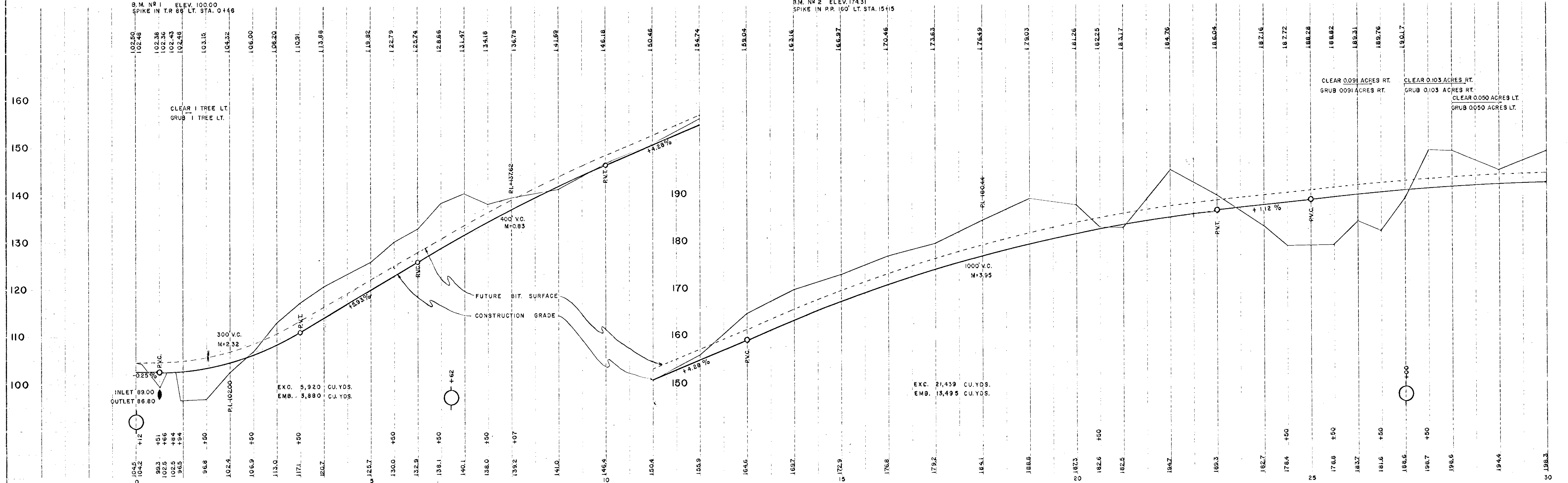
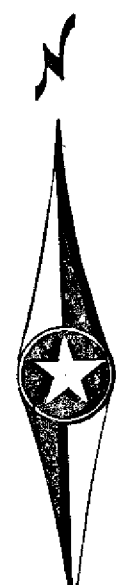
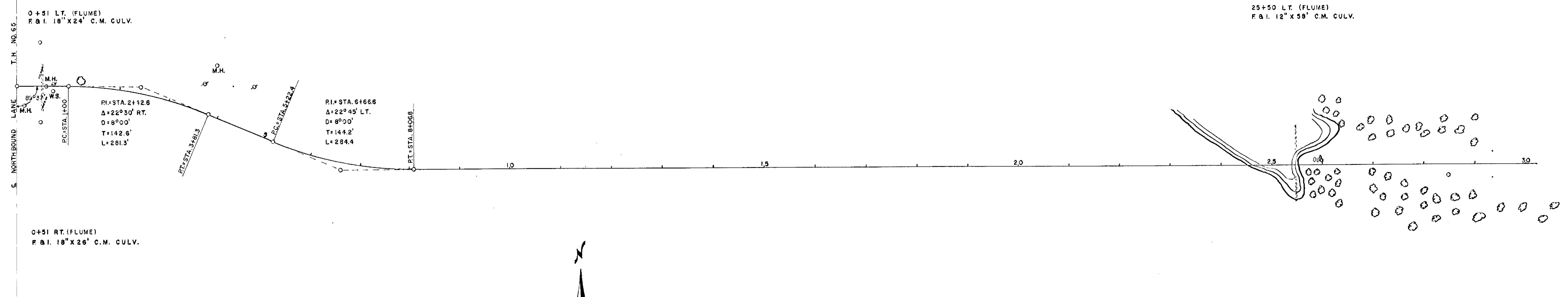


STANDARD DETAIL PLATES

THE FOLLOWING STANDARD DETAIL PLATES, APPROVED BY THE BUREAU OF PUBLIC ROADS, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
3000-3001	S.C.P. CULVERTS
3100	CONCRETE APRONS

2-111
 NOTE BOOK
 NO.



S.A.P. 02-604-01
 NOTE BOOK
 NO. 101
 DATE 10/1/57

