

CONVENTIONAL SIGNS

STATE LINE	-----	TIMBER	
COUNTY LINE	-----	BRUSH	
TOWNSHIP OR RANGE LINE	-----	ORCHARD	
SECTION LINE	-----	ROCK LEDGE	
QUARTER LINE	-----	SAND	
SIXTEENTH LINE	-----	EDGE OF CUT	
RIGHT-OF-WAY LINE	-----	TOP OF EMBANKMENT	
PRESENT ROAD $\frac{3}{4}$ " LINE	-----	CATCH BASIN	
LIMITED ACCESS	-----	MANHOLE	
PROPERTY LINE (Except Land Lines)	-----	DROP INLET	
VACATED PLATTED PROPERTY	-----	FIRE HYDRANT	
CORPORATE OR CITY LIMITS	-----	ARC LAMP	
TRUNK HIGHWAY CENTER LINE	-----	OTHER LAMPS (Tails Kind)	
RETAINING WALL	-----	RAILROAD CROSSING SIGN	
STEAM RAILROAD	-----	RAILROAD CROSSING BELL	
ELECTRIC RAILROAD	-----	ELECTRIC WARNING SIGN	
RAILROAD RIGHT-OF-WAY LINE	-----	CROSSING GATE	
CREEK	-----	CATTLE GUARD	
RAPIDS OR WATERFALL	-----	OVERHEAD (Highway Over)	
DRY RUN	-----	UNDERPASS (Highway Under)	
DRAINAGE DITCH	-----	ABUTMENT, WALL & PIER	
HIGH TENSION LINE	-----	BRIDGE	
POWER POLE LINE	-----	CULVERT	
TELEPHONE OR TELEGRAPH LINE	-----	BUILDING (One Story Frame)	
TELEPHONE CONDUIT	-----	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO	
GUARD RAIL	-----	HEDGE	
WIRE FENCE	-----	IRON PIPE	
RAILROAD SNOW FENCE	-----	STONE MONUMENT	
BOARD OR HIGHWAY SNOW FENCE	-----	WOOD STAKE OR HUB	
STONE WALL OR FENCE	-----	MEANDER CORNER	
GAS MAIN	-----		
WATER PIPE	-----		
SEWER PIPE	-----		
DRAIN TILE	-----		
GRAVEL PIT			
SAND PIT			
CLAY PIT			
ROCK QUARRY			
SPRINGS			
MARSH			



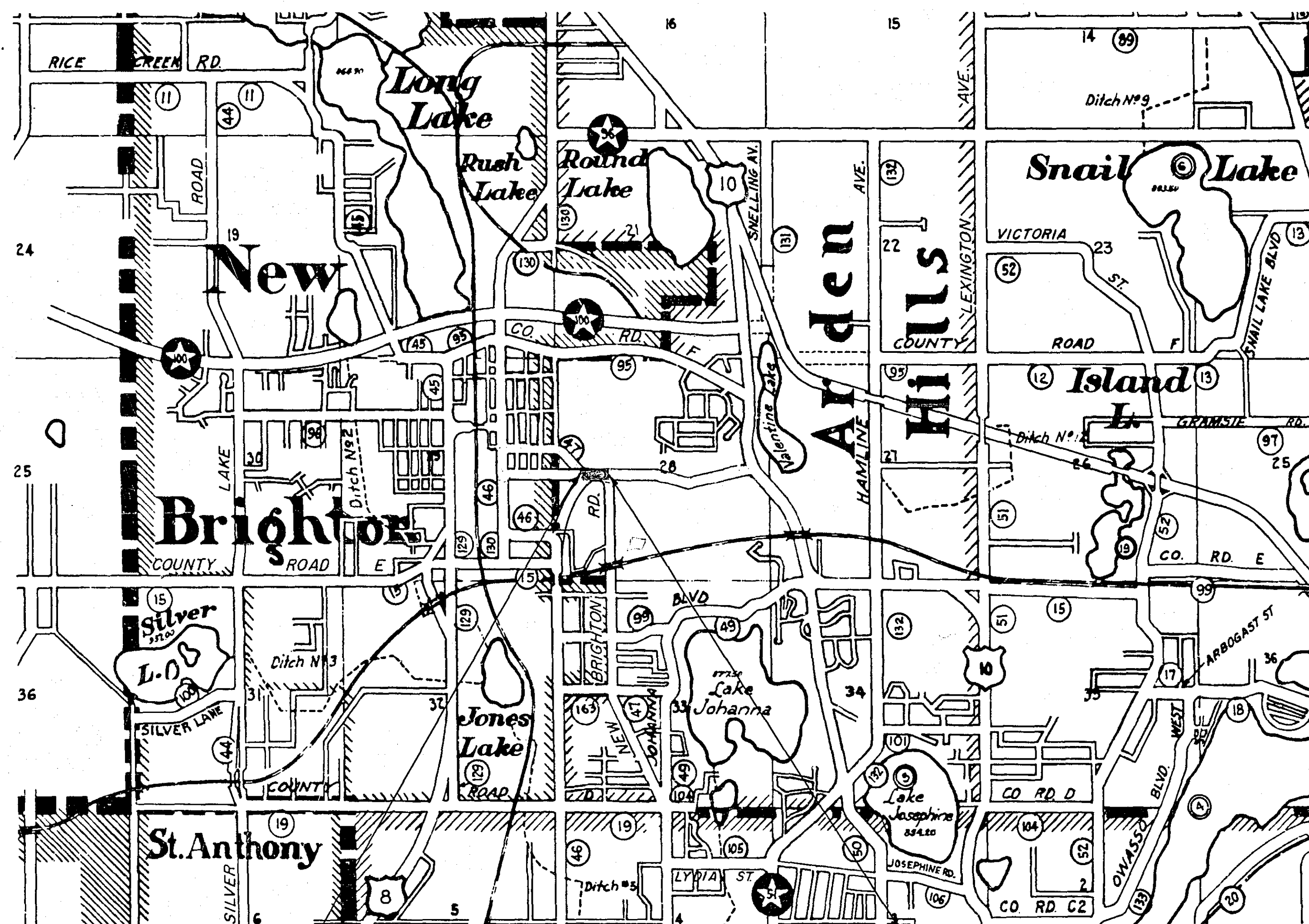
NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO. _____	Located in _____
PIT NO. _____	Located in _____
PIT NO. _____	Located in _____
PIT NO. _____	Located in _____

SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JAN. 1, 1964 SHALL GOVERN.



BEG. OF PROJ.
STA. 19+20

END OF PROJ.
STA. 25+78

**OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY
CONSTRUCTION PLAN FOR GRADING AND SURFACING
COUNTY ROAD "E-2"**

BETWEEN: T.H. 35W AND: NEW BRIGHTON RD.
FROM: 658 FT. WEST OF N.1/4 OF S.W.1/4 OF SEC.28, T30N, R23W. TO: N.1/4 OF S.W. 1/4 OF SEC.28, T30N, R23W.

GROSS LENGTH	658.0 FEET	0.1246 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	658.0 FEET	0.1246 MILES

SHEET NO.	DESCRIPTION
	1 TITLE SHEET
2	PLAN & PROFILE SHEET

SCALES

PLAN, 1 inch = 100 Feet	PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.	
		WORKING PLANS { Horiz. 1 inch = 100 Feet
		{ Vert. 1 inch = 10 Feet
LAYOUT, 1 inch = 2640 Feet	Cross-Sections 1 inch = 10 Feet	

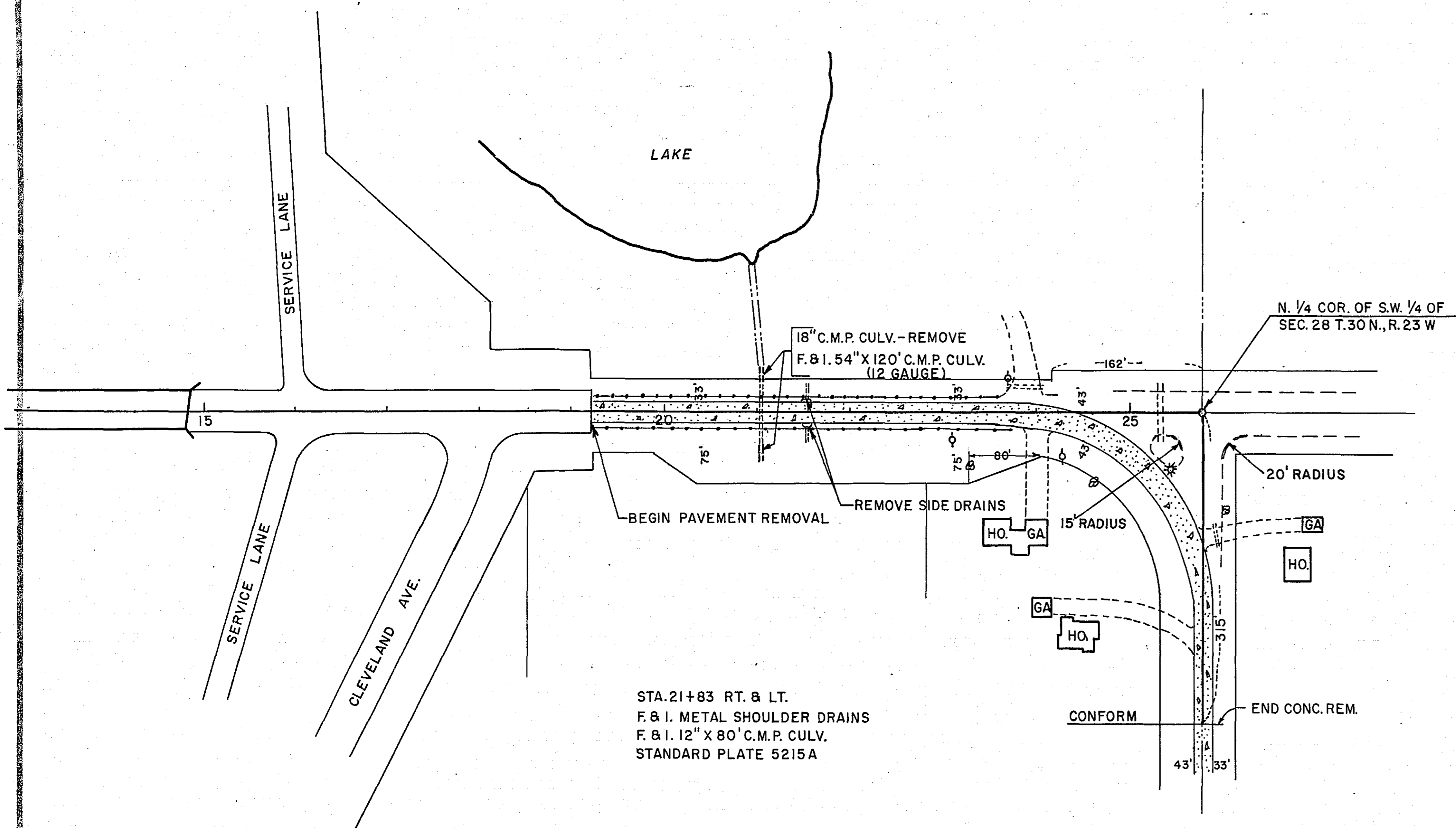
DESIGN SPEED 40 M.P.H.
DESIGN LOAD 7 TON (ULT. 9 TON)
TRAFFIC COUNT- 1500 V.P.D.

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.
Harold M. Smedley REG. NO. 6334 DATE 6/19/64

RECOMMENDED FOR APPROVAL *Dean R. Apple* DATE 6-22-64
ENGINEER
APPROVED *H. J. Ludrick* DATE _____
CHAIRMAN OF RAMSEY COUNTY BOARD

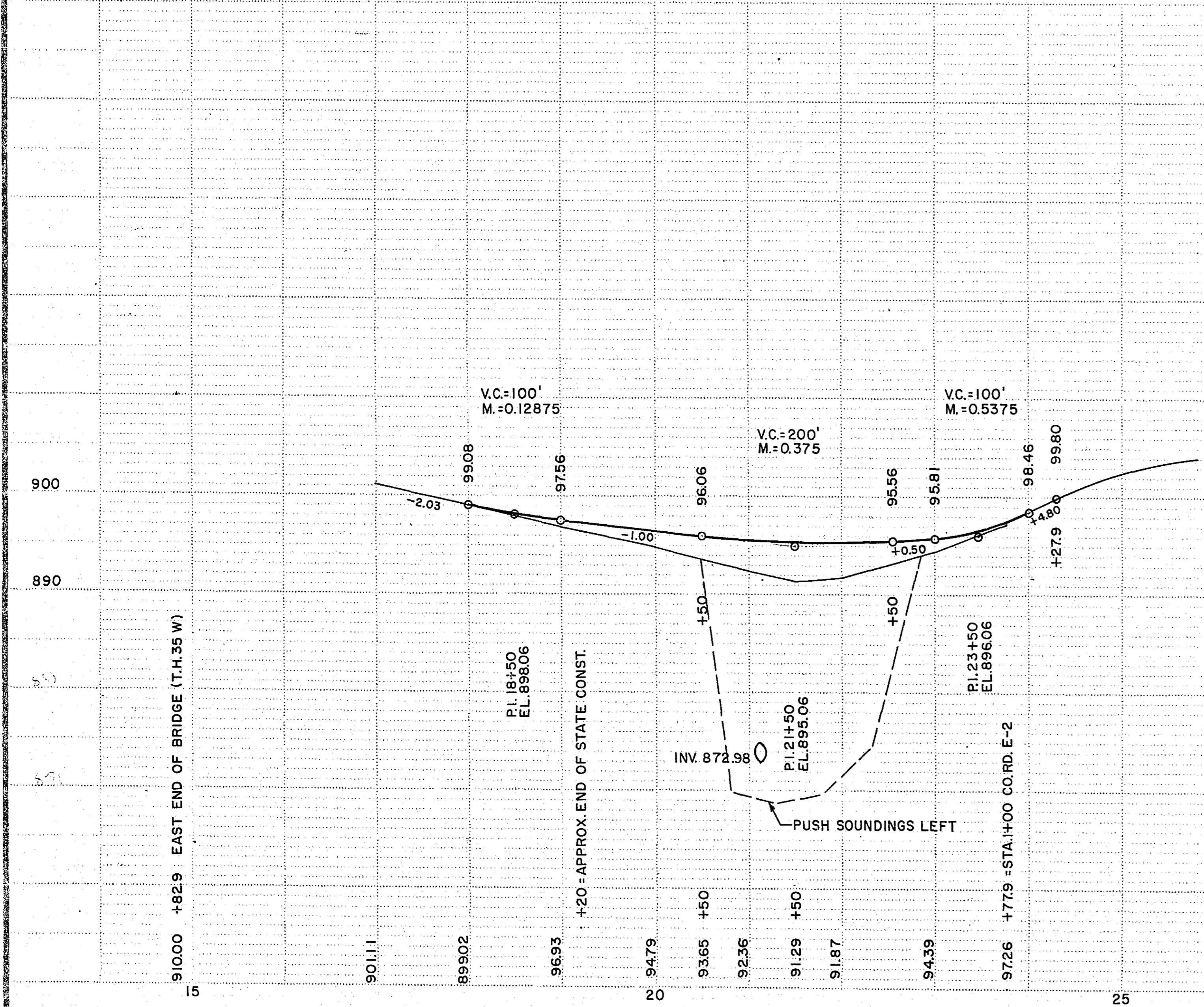
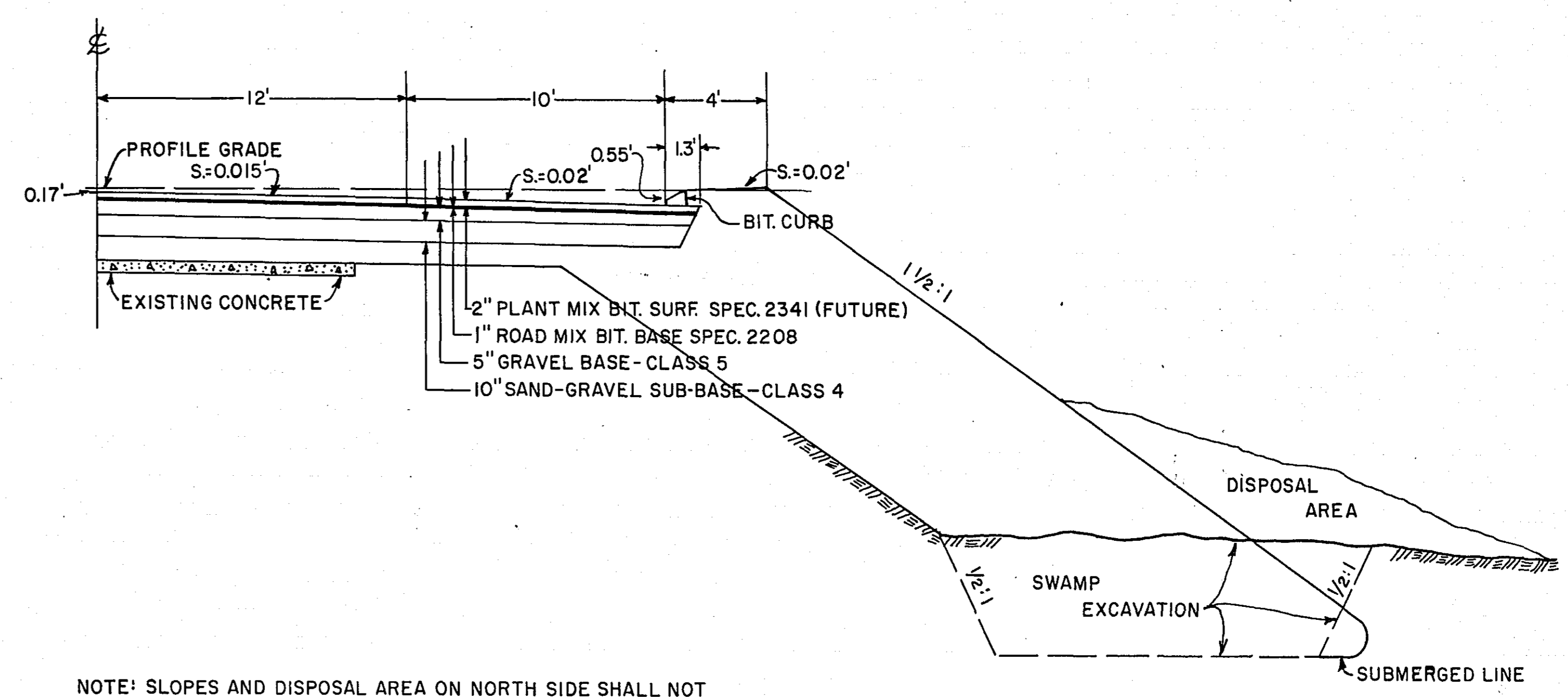
MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL *J. J. [Signature]* DATE 7-10-64
RECOMMENDED FOR APPROVAL *R. P. [Signature]* DATE 6-23-64
ASST. DISTRICT ENGINEER
APPROVED *[Signature]* DATE 7-10-64
STATE AID ENGINEER

MICRO-FILMED



STA. 21+83 RT. & LT.
F. & I. METAL SHOULDER DRAINS
F. & I. 12" X 80' C.M.P. CULV.
STANDARD PLATE 5215 A

REMOVE GUARD RAIL:
LT. STA. 19+20 TO STA. 23+60 440 L.F.
RT. STA. 19+20 TO STA. 23+80 460 L.F.



ESTIMATED		QUANTITIES	
SPEC. NO.	DESCRIPTION	UNIT	TOTAL
2104.502	REMOVE PAVEMENT	SQUARE YARD	2,184
2104.509	REMOVE GUARD RAIL	LINEAR FOOT	900
2105.506	BORROW EXCAVATION (CLASS "A")	CUBIC YARD	13,000
2123.506	4 CUBIC YARD DRAGLINE	hour	20
2201.526	GRAVEL SUB-BASE IN PLACE (CLASS 4)	TON	1,828
2202.526	GRAVEL BASE IN PLACE (CLASS 5)	TON	1,050
2208.501	BITUMINOUS MATERIAL FOR PRIME COAT	GALLON	1,150
2208.503	BITUMINOUS MATERIAL FOR MIXTURE	GALLON	2,300
2208.506	AGGREGATE	TON	200
2501.511-54	F. & I. 54" C.M.P. CULVERT (12 GAUGE) (STRUTTED)	LINEAR FOOT	120
2515.521-12	F. & I. 12" C.M.P. FLUMES	LINEAR FOOT	80
2515.526	F. & I. METAL SHOULDER DRAINS	DRAINS	2