

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	-----	TOE OF EMBANKMENT	-----
PRESENT ROAD 1/2 W. 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 (State 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	-----	BUILDINGS (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	-----		



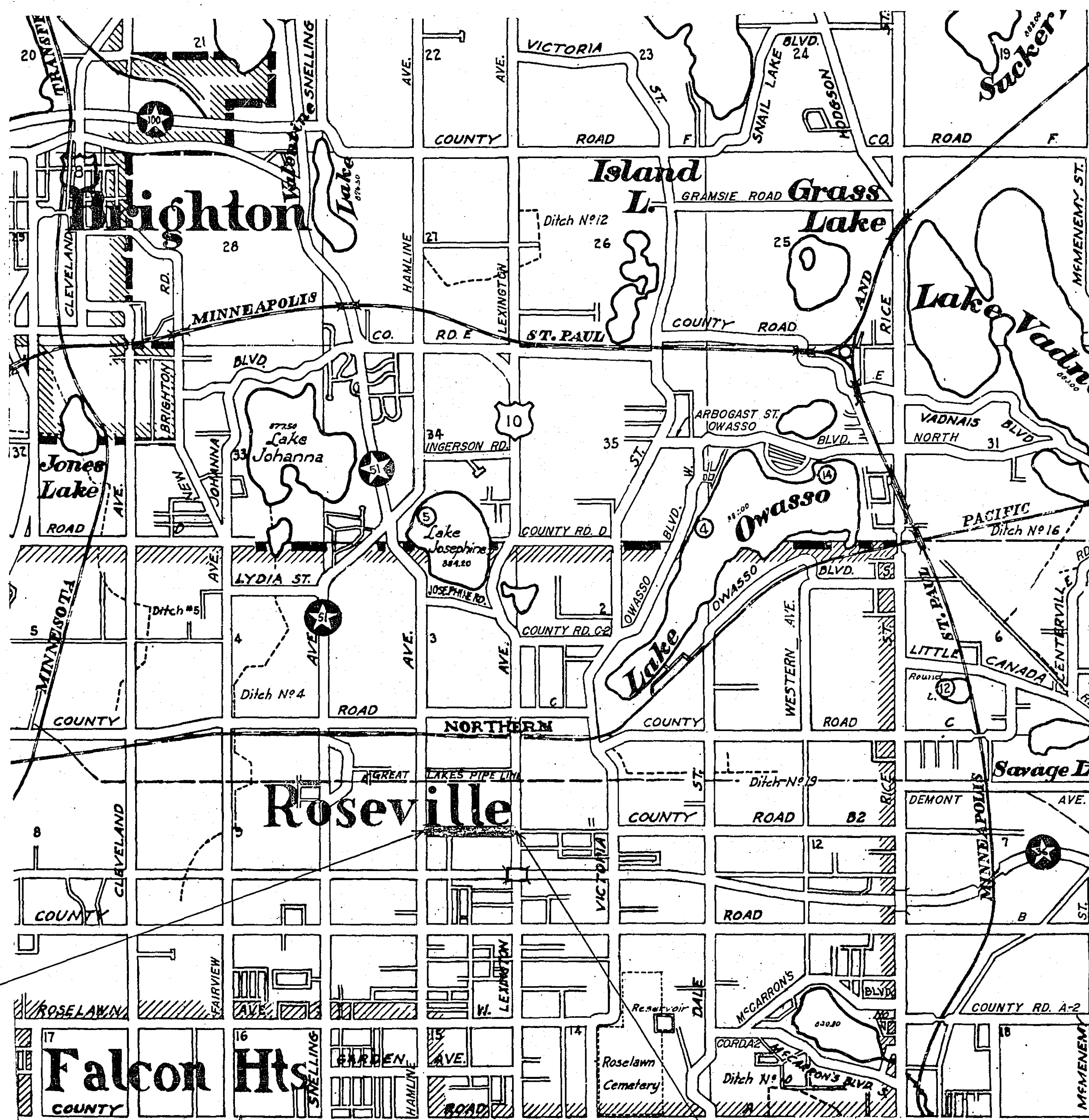
NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO.	Located in Dead Haul
PIT NO.	Located in Dead Haul
PIT NO.	Located in Dead Haul
PIT NO.	Located in Dead Haul

BEG. OF PROJ.
STA. 0+10

END OF PROJ.
STA. 26+15



**OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY**
CONSTRUCTION PLAN FOR GRADING AND STABILIZING
COUNTY ROAD B-2
RAMSEY COUNTY PROJECT NO. 55-61 B
FROM HAMLINE AVENUE TO LEXINGTON AVENUE (T.H. 10)

GROSS LENGTH	2605 FEET	0.493 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	2605 FEET	0.493 MILES

INDEX

SHEET NO.	DESCRIPTION
1	LAYOUT MAP AND TITLE SHEET
2	ESTIMATE AND MISC. DETAILS
3	PLAN AND PROFILE
4 TO 8	CROSS SECTIONS
9 & 10	BORROW PIT NO. 1

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

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.
Barry J. Brown COUNTY ENGINEER REG. NO. 818 DATE 4/7/55

RECOMMENDED FOR APPROVAL *Barry J. Brown* COUNTY ENGINEER DATE 4/7/55

APPROVED *Joseph E. O'Connell* CHAIRMAN OF RAMSEY COUNTY BOARD DATE 4/11/55

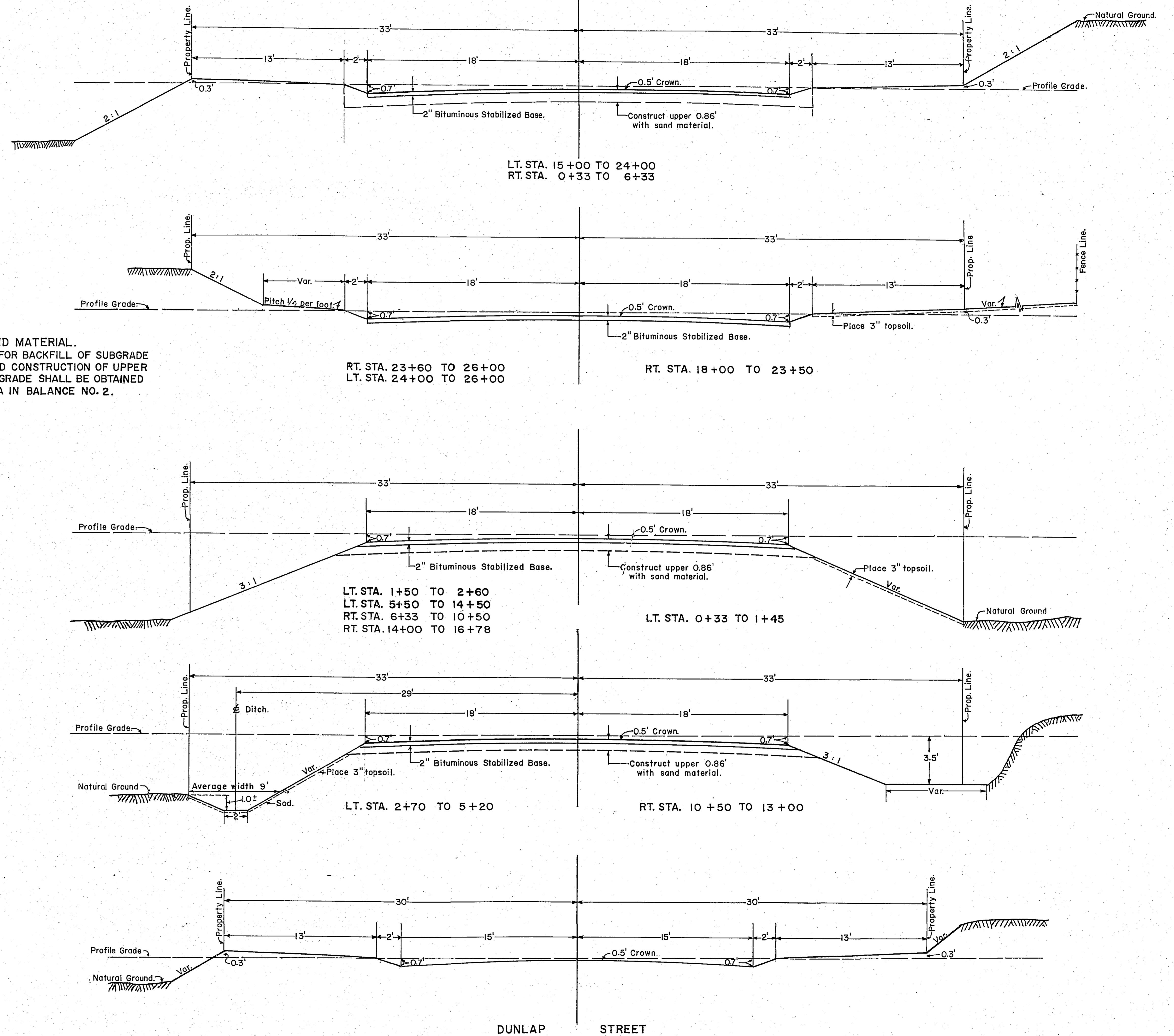
SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JULY 1, 1947 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON 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.

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	CLEARING	TREE	16
2101.507	GRUBBING	TREE	22
2104.501	REMOVE PORTABLE CULVERTS	LINEAR FOOT	38
2104.510	REMOVE FENCE	LINEAR FOOT	227
2104.511	REMOVE MANHOLES	STRUCTURE	1
2105.503	CLASS C EXCAVATION	CUBIC YARD	11,233
2105.508	BORROW EXCAVATION (CLASS C)	CUBIC YARD	7,429
2123.508	12 CUBIC YARD SCRAPER	HOURL	10
2207.503	BITUMINOUS MATERIAL	GALLON	14,262
2207.512	BITUMINOUS STABILIZED BASE (2 INCHES THICK)	SQUARE YARD	10,971
2501.511-12	F. & I. C.M. PIPE CULVERT 12" (2 BANDS)	LINEAR FOOT	38
2501.521-15	F. & I. S.C. CULVERT 15"	LINEAR FOOT	46
2501.521-18	F. & I. S.C. CULVERT 18"	LINEAR FOOT	44
2501.521-24	F. & I. S.C. CULVERT 24"	LINEAR FOOT	42
2515.541-15	F. & I. CONCRETE APRON FOR 15" S.C. PIPE	APRON	1
2515.541-18	F. & I. CONCRETE APRON FOR 18" S.C. PIPE	APRON	2
2515.541-24	F. & I. CONCRETE APRON FOR 24" S.C. PIPE	APRON	2
2503.501	TRENCH EXCAVATION 0' TO 6' DEEP	LINEAR FOOT	358
2503.512-12	F. & I. R.C.P. SEWER 12"	LINEAR FOOT	72
2503.512-15	F. & I. R.C.P. SEWER 15"	LINEAR FOOT	74
2503.512-18	F. & I. R.C.P. SEWER 18"	LINEAR FOOT	230
2503.521-48	INSTALL CONCRETE PIPE SEWER 48" (includes apron)	LINEAR FOOT	38
2506.501	EXCAVATION FOR MANHOLES & CATCH BASINS	CUBIC YARD	10
2506.506	CONSTRUCT MANHOLES DESIGN A OR C	LINEAR FOOT	7.6
2506.507	CONSTRUCT CATCH BASINS DESIGN C	LINEAR FOOT	2.6
2506.516	F. & I. CASTING ASSEMBLIES	ASSEMBLY	1
2506.521	INSTALL CASTINGS	ASSEMBLY	1
2574.501	ROADSIDE SEEDING	ACRE	0.5
2576.501	AREA SODDING	SQUARE YARD	344

TYPICAL GRADING SECTIONS



SOURCE OF SAND MATERIAL.
SAND MATERIAL FOR BACKFILL OF SUBGRADE TREATMENTS AND CONSTRUCTION OF UPPER 0.86 FT. OF SUBGRADE SHALL BE OBTAINED FROM CUT AREA IN BALANCE NO. 2.

BASIS FOR PLANNED QUANTITIES
STABILIZED BASE
BITUMINOUS MATERIAL FOR BASE R.C. 2-----1.3 GALLONS PER SQUARE YARD.

ROADSIDE SEEDING
LT. STA. 0+33 TO STA. 5+10
RT. STA. 17+00 TO STA. 22+00

PLATE NO.	STANDARD DETAIL PLATES
4000C	MANHOLE OR CATCH BASIN
4002B	MANHOLE OR CATCH BASIN
4126A	CATCH BASIN FRAME CASTING *
9102A	SODDING AT PIPE CULVERT ENDS

* PLATE NO. 4126A
GRATE FRAME NO. 801
GRATE NO. 810
CURB BOX NO. 821

DUNLAP STREET

