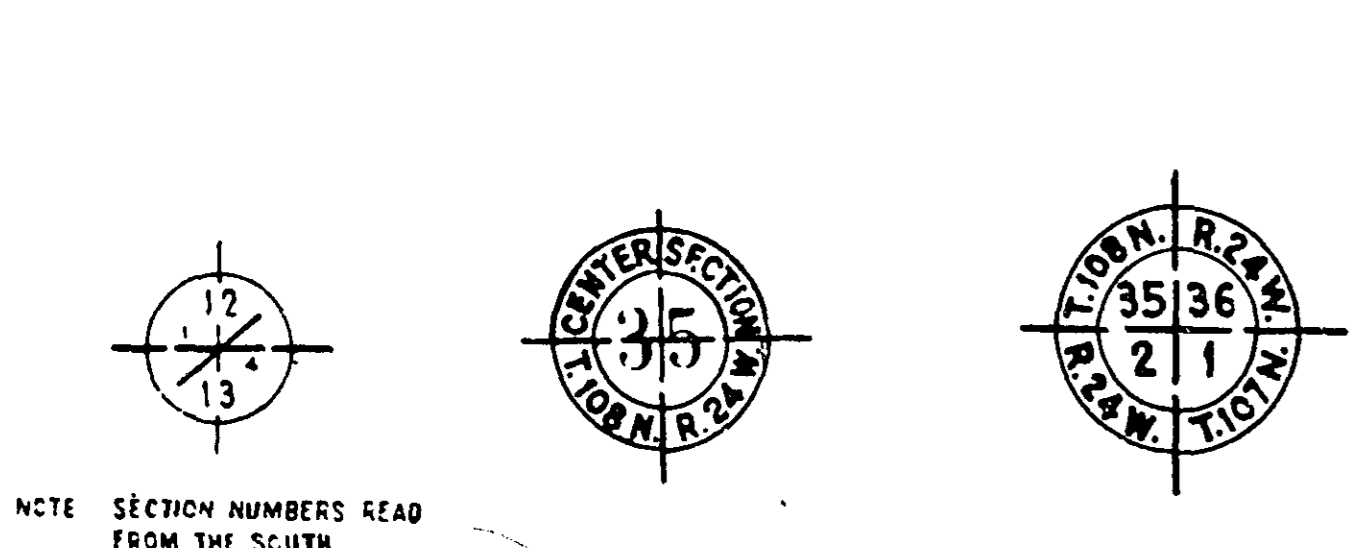


**PLANS SYMBOLS**

STATE LINE	SPRINGS
COUNTY LINE	MARSH
TOWNSHIP OR RANGE LINE	TIMBER
SECTION LINE	ORCHARD
QUARTER LINE	BRUSH
SIXTEENTH LINE	NURSERY
RIGHT-OF-WAY LINE	CATCH BASIN
PRESENT RIGHT-OF-WAY LINE	FIRE HYDRANT
CONTROL OF ACCESS LINE	CATTLE GUARD
PROPERTY LINE (Except Land Lines)	OVERPASS (Highway Over)
VACATED PLATTED PROPERTY	UNDERPASS (Highway Under)
CORPORATE OR CITY LIMITS	BRIDGE
TRUNK HIGHWAY CENTER LINE	BUILDING (One Story Frame)
RETAINING WALL	F-FRAME C-CONCRETE
RAILROAD	S-STONE T-TILE
RAILROAD RIGHT-OF-WAY LINE	B-BRICK ST-STUCCO
RIVER OR CREEK	IRON PIPE OR ROD
DRY RUN	MONUMENT (STONE, CONCRETE, OR METAL)
DRAINAGE DITCH	WOODEN HUB
DRAIN TILE	
CULVERT	GRAVEL PIT
DROP INLET	SAND PIT
GUARD RAIL	BORROW PIT
BARBED WIRE FENCE	ROCK QUARRY
WOVEN WIRE FENCE	
CHAIN LINK FENCE	
RAILROAD SNOW FENCE	
STONE WALL OR FENCE	
HEDGE	
RAILROAD CROSSING SIGN	
RAILROAD CROSSING BELL	
ELECTRIC WARNING SIGN	
CROSSING GATE	
MEANDER CORNER	

**UTILITIES SYMBOLS**

POWER POLE LINE	CONDUIT
TELEPHONE OR TELEGRAPH POLE LINE	TELEPHONE CABLE IN CONDUIT
JOINT TELEPHONE AND POWER ON POWER POLES	ELECTRIC CABLE IN CONDUIT
ON TELEPHONE POLES	TELEPHONE MANHOLE
ANCHOR	ELECTRIC MANHOLE
STEEL TOWER	BURIED TELEPHONE CABLE
STREET LIGHT	BURIED ELECTRIC CABLE
PEDESTAL TELEPHONE CABLE TERMINAL	AERIAL TELEPHONE CABLE
GAS MAIN	SEWER (SANITARY OR STORM)
WATER MAIN	SEWER MANHOLE



**PIT DATA**

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

**SPECIFICATIONS**

THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1964 AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED FEBRUARY 1, 1966 SHALL GOVERN.

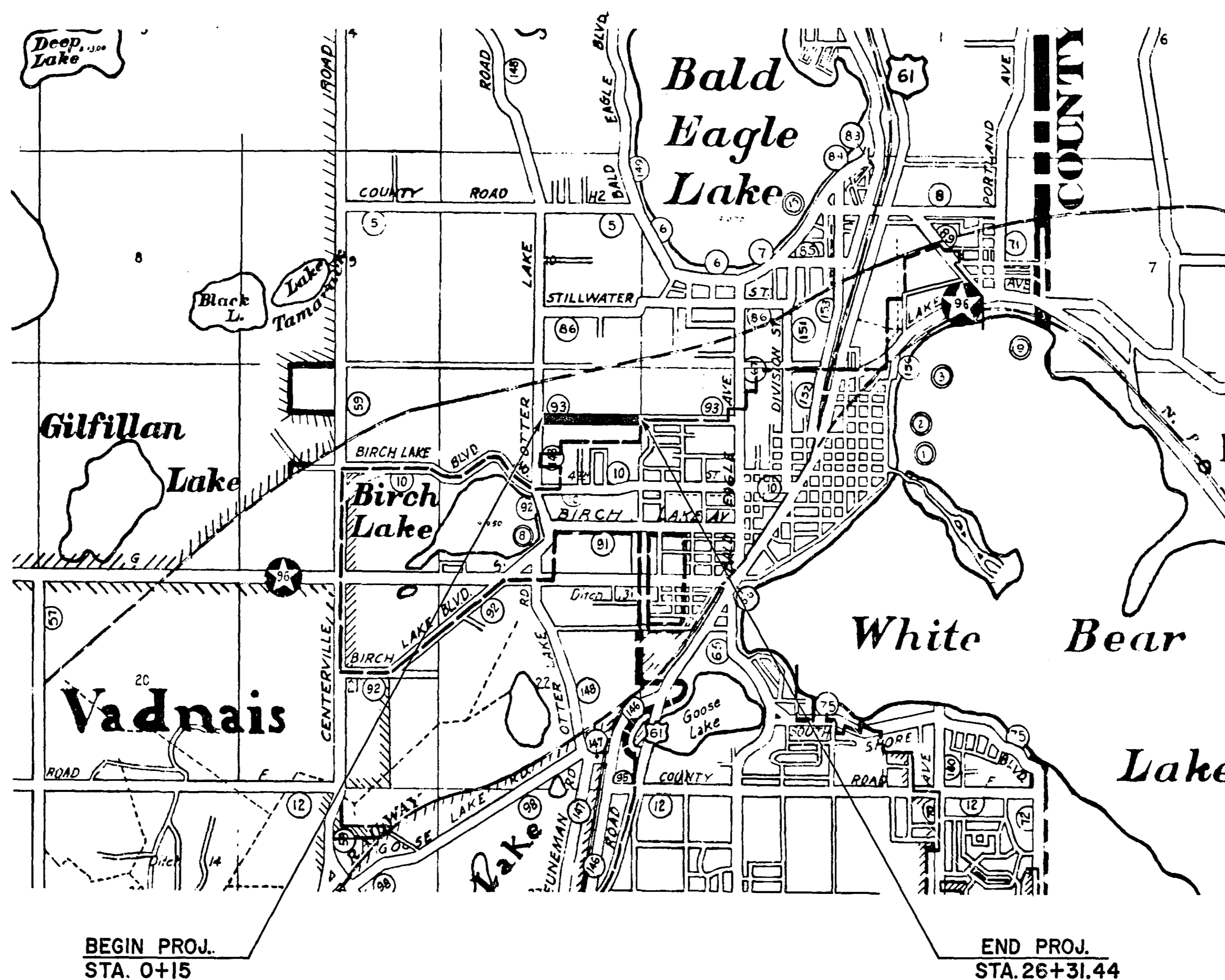
**OFFICE OF COUNTY ENGINEER  
RAMSEY COUNTY  
CONSTRUCTION PLAN FOR GRADING AND BITUMINOUS SURFACING  
NINTH STREET CO. PROJ. 66-93**

BETWEEN: OTTER LAKE ROAD AND: 1/2 MILE EAST  
FROM: A POINT 15 FT. EAST OF THE S.W. 1/4 OF THE NORTH 1/2 OF THE N.E. 1/4 OF SEC. 15 T.30N., R.22W. TO: THE S.E. 1/4 OF THE NORTH 1/2 OF THE N.E. 1/4 OF SEC. 15 T.30N., R.22W.

GROSS LENGTH	261644 FEET	.496 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	261644 FEET	.496 MILES

SCALES

PLAN, 1 inch = 50 Feet
PROFILE, Horiz. 1 inch = 50 Feet Vert. 1 inch = 5 Feet
WORKING PLANS - Horiz. 1 inch = 100 Feet Vert. 1 inch = 10 Feet
Cross-Sections 1 inch = 10 Feet
LAYOUT, 1 inch = 2640 Feet



**INDEX**

SHEET NO	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & ESTIMATED QUANTITIES
3&4	PLAN PROFILE
5-8	CROSS-SECTIONS

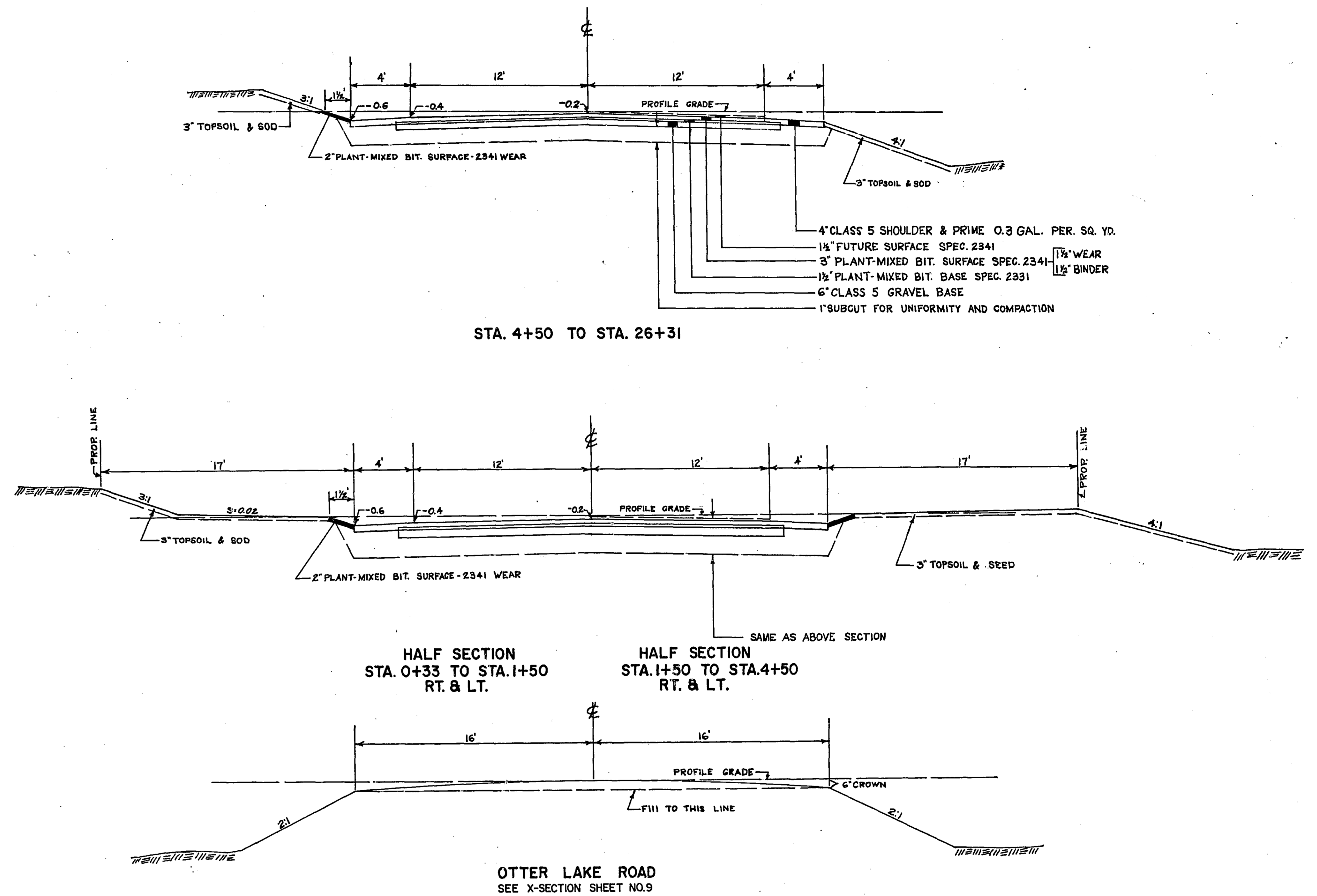
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
*Walter J. Anderson* ENGINEER REG. NO. 2042 DATE Mar. 2, 1966

RECOMMENDED FOR APPROVAL *Dean R. Anderson* DATE 3/2/66  
 COUNTY ENGINEER  
 APPROVED *St. Vadnais* DATE 3/1/66  
 CHAIRMAN OF THE RAMSEY COUNTY BOARD

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	CLEARING	TREE	10
2101.507	GRUBBING	TREE	13
2105.501	CLASS A EXCAVATION	C.Y.	9,003
2105.510	TOPSOIL COVERING	C.Y.	481
2130.501	WATER	(M) GAL.	20
2202.526	GRAVEL BASE IN PLACE (CLASS 5)	TON	3,400
2331.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	800
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	19.5
2331.514	BASE COURSE MIXTURE	TON	575
2341.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	800
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	583
2341.509	WEARING COURSE MIXTURE & FILLER	TON	610
2341.514	BINDER COURSE MIXTURE	TON	600
2356.505	BITUMINOUS MATERIAL FOR SEAL CCAT	GAL.	1,300
2356.611	SEAL COAT AGGREGATE	TON	38
2501.521	F.B.I. 15" R.C.P. CULV., CLASS 2	L.F.	20
2501.521	F.B.I. 18" R.C.P. CULV., CLASS 2	L.F.	60
2515.541	F.B.I. APRONS FOR 15" R.C.P.	APRON	1
2515.541	F.B.I. APRONS FOR 18" R.C.P.	APRON	1
2506.507	CONSTRUCT CATCH BASIN, DESIGN L.P.	L.F.	10.9
2506.511	RECONSTRUCT MANHOLES	L.F.	4.5
2506.521	INSTALL CASTINGS	ASSEMBLY	1
2506.522	ADJUST FRAME AND CASTING	ASSEMBLY	1
2574.501	ROADSIDE SEEDING, CLASS 15	ACRE	0.2
2576.501	SODDING	S.Y.	3,600

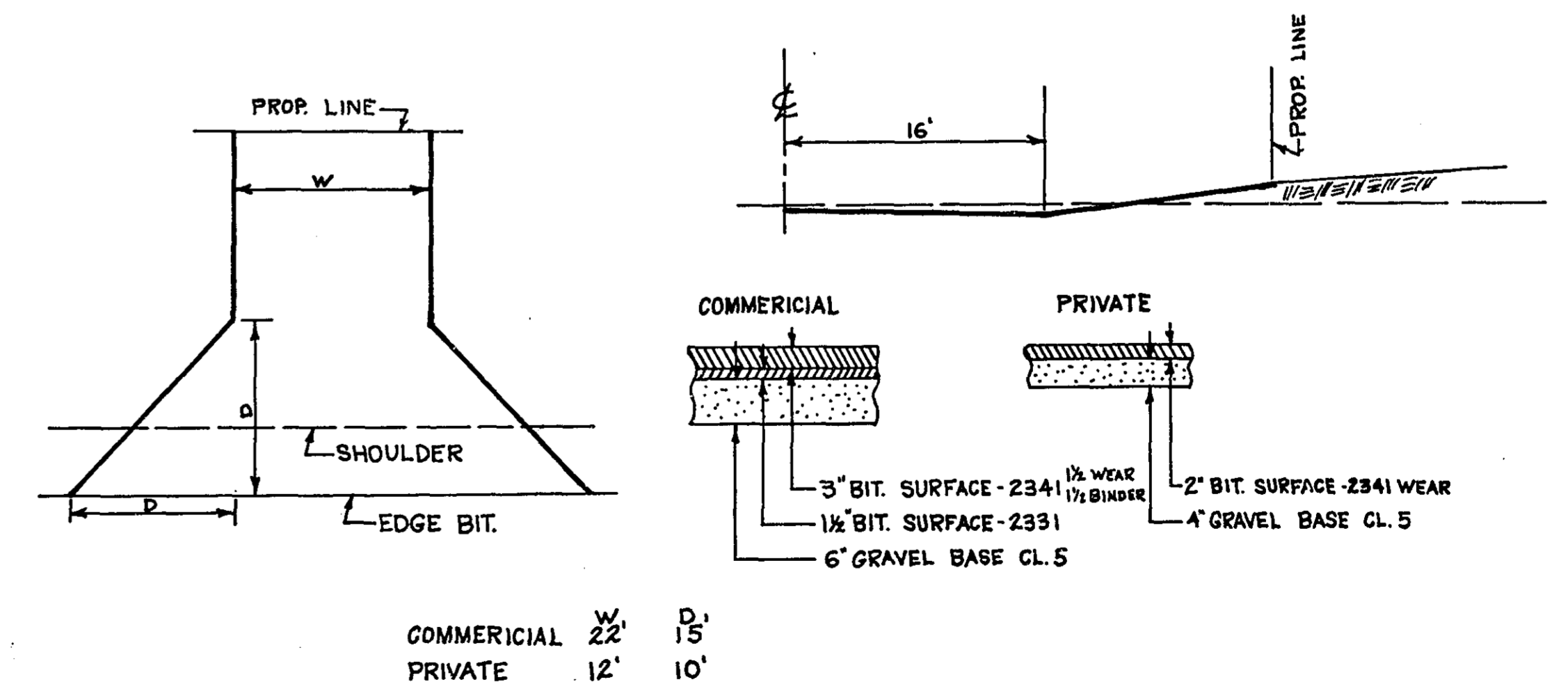
TYPICAL SECTIONS



STANDARD DETAIL PLATES

ITEM NO.	DESCRIPTION
3000 B	REINFORCED CONCRETE PIPE
3102 B	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
4016	CURB OPENING CATCH BASIN
8000 A - 8009	STANDARD BARRICADE
9102 A	SODDING AT PIPE CULVERT ENDS

CLEARING AND GRUBBING			
STATION	LOCATION	CLEAR	GRUB
0+37	RT. 23'	1	1
0+47	RT. 23'	1	1
0+71	RT. 23'	1	1
1+34	RT. 24'	1	1
8+04	LT. 22'	1	1
8+19	RT. 19'	0	1
8+93	LT. 20'	1	1
11+57	RT. 19'	0	1
11+70	RT. 14'	3	1
12+31	RT. 16'	1	1
12+19,+23,+24	RT.	0	3
TOTAL		10	13



BITUMINOUS ENTRANCE DETAILS

NOTE: THE EXACT LOCATION AND WIDTH OF ENTRANCES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.



