

CO. RD. "B" STATEMENT OF ESTIMATED QUANTITIES

ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES
2021.501	MOBILIZATION	L.S.	1
2105.501	COMMON EXCAVATION	C.Y.	6716
2105.525	TOPSOIL BORROW	C.Y.	583
2105.523	COMMON BORROW (L.V.)	C.Y.	700
2211.501	AGGREGATE BASE, CLASS 6 OR 5, 100 % CRUSHED	TON	3427
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	11200
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	123
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	825
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	788
2331.518 (M)	LEVELING COURSE MIXTURE FOR BIKEWAY	TON	575
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	908
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2726
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.	40
2506.522	ADJUST FRAME & RING CASTING	EACH	10
2535.501	BITUMINOUS CURB	L.F.	100
2554.501	TRAFFIC BARRIER, DESIGN A	L.F.	170
2575.505	SODDING	S.Y.	7000
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.25
554.607	BREAKAWAY CABLE TERMINAL (B.C.T.)	EACH	2
504.602	ADJUST VALVE BOX	EACH	4

NON-PARTICIPATING

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	98
2341.508	WEARING COURSE MIXTURE	TON	1,204
2331.518 M	LEVELING COURSE MIXTURE	TON	467
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,417
2506.522	ADJUST FRAME & RING CASTING	EACH	13
504.602	ADJUST VALVE BOX	EACH	1

PROSPERITY RD. STATEMENT OF ESTIMATED QUANTITIES

ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1
2104.501	REMOVE CULVERT PIPE	L.F.	100
2105.501	COMMON EXCAVATION	C.Y.	7,330
2105.525	TOPSOIL BORROW	C.Y.	458
2105.523	COMMON BORROW (LV)	C.Y.	1,000
2211.501	AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED	TON	3,360
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	11,795
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	126
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	817
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	817
2331.518 M (I)	LEVELING COURSE MIXTURE FOR BIKEWAY	TON	594
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	900
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2,701
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.	100
2506.522	ADJUST FRAME & RING CASTING	EACH	10
2535.501	BITUMINOUS CURB	L.F.	1430
2501.515	15" C.S. PIPE APRONS	EACH	10
2575.505	SODDING	S.Y.	5,710
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.2
504.602	ADJUST VALVE BOX	EACH	7

NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES

ITEM NO	ITEM	UNIT	ESTIMATED QUANTITIES
2341.504	BIT. MATERIAL FOR MIXTURE	TON	96
2341.508	WEARING COURSE MIXTURE	TON	1172
2331.518 M (I)	LEVELING COURSE MIXTURE	TON	455
2357.502	TACK COAT	GAL.	1379
2506.522	ADJUST FRAME RING & CASTING	EACH	11
504.602	ADJUST VALVE BOX	EACH	10

UNIT PRICE		QUANTITY		AMOUNT		QUANTITY		AMOUNT		QUANTITY		AMOUNT	
1000	00	1		1000	00								
73	6716			6245	88								
420	1056			4435	20								
362	108			390	96								
568	2922	50		16599	80								
051	10729	00		5471	79								
19000	120	36		22868	40								
1130	1065	00		12034	50								
1130	809	50		9090	85								
1090	575	00		6267	50								
160	854	00		1366	40								
150	0			-0-									
1785	38	00		678	30								
115	00	7		805	00								
225	60			135	00								
1155	173			1998	15								
110	8543			9397	30								
36225		30		108	67								
61950	2	00		1239	00								
90	00	6		540	00								
				1292	72								
				101,965	42								
190	00	72.57		13788	30								
1130	1240	00		14012	00								
1090	124	70		1359	23								
160	896	00		1433	60								
115	00	13		1495	00								
90	00	0		-0-									
				32,188.13									
				134,053.55									
1000		1		1000	00								
735	26			191	10								
73	7330			6816	90								
420	708			2973	60								
362	0			0									
568	2201	30		12503	38								
51	10757	00		5486	07								
190	00	12838		24392	20								
1130	870	80		9840	04								
1130	650	00		7345	00								
1090	1158	00		12622	20								
160	900			1440	00								
150	0			0									
1785	44			785	40								
115	00	12		1380	00								
225	1234			2776	50								
6825	2			136	50								
110	8495	00		9344	50								
36225		30		108	67								
90	00	5		450	00								
				836	56								
				100,428	62								
190	00	8377		15916	30								
1130	1172	00		13243	60								
1090	455	00		4959	50								
160	1114	00		1782	40								
	-0-			-									
90	00	7		630	00								
				36531	80								
				136,360	42								
25-126													

CO. RD. "B" STATEMENT OF ESTIMATED QUANTITIES				AVERAGE 3 LOWEST BIDDERS	TOWER ASPHALT		ASCHBACH		T.A. SCHIFSKY		SHAFFER		TOTAL ASPHALT		FOREST LAKE		C.S. McCROSSAN	
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES		UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	L.S.	1	4,066.67	1,000.00	1,000.00	7,000.00	7,000.00	4,200.00	4,200.00	10,000.00	10,000.00	5,700.00	5,700.00	10,000.00	10,000.00	7,500.00	7,500.00
2105.501	COMMON EXCAVATION	C.Y.	6716	3.19	0.93	6,245.88	3.90	26,192.40	4.75	31,901.00	3.50	23,506.00	3.85	25,856.60	4.09	27,468.94	6.30	42,310.80
2105.525	TOPSOIL BORROW	C.Y.	583	5.57	4.20	2,448.60	7.75	4,518.25	4.75	2,767.25	6.00	3,498.00	6.00	3,498.00	8.00	4,664.00	8.00	4,664.00
2105.523	COMMON BORROW (L.V.)	C.Y.	700	3.71	3.62	2,534.00	3.85	2,697.50	3.65	2,555.00	4.25	2,975.00	4.30	3,010.00	0.50	350.00	4.40	3,080.00
2211.501	AGGREGATE BASE, CLASS 6 OR 5, 100% CRUSHED	TON	3427	5.06	5.68	19,465.36	4.40	15,078.80	5.10	17,477.70	4.30	14,736.10	6.95	23,817.65	7.30	25,017.10	9.68	33,173.36
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	11200	0.42	0.51	5,712.00	0.60	6,720.00	0.15	1,680.00	0.95	10,640.00	0.50	5,600.00	0.70	7,840.00	0.46	5,152.00
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	123	183.33	190.00	23,370.00	180.00	22,140.00	180.00	22,140.00	190.00	23,370.00	190.00	23,370.00	190.00	23,370.00	175.00	21,525.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	825	11.59	11.30	9,322.50	11.70	9,652.50	11.77	9,710.25	11.40	9,405.00	11.47	9,462.75	11.77	9,710.25	15.00	12,375.00
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	788	11.54	11.30	8,904.40	11.65	9,180.20	11.67	9,195.96	13.90	10,953.20	13.90	10,953.20	11.67	9,195.96	15.00	11,820.00
2331.518(M)	LEVELING COURSE MIXTURE FOR BIKEWAY	TON	575	11.42	10.90	6,267.50	11.60	6,670.00	11.77	6,767.75	11.45	6,583.75	11.45	6,583.75	11.77	6,767.75	15.00	8,625.00
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	908	1.40	1.60	1,452.80	1.10	998.80	1.50	1,362.00	1.05	953.40	1.05	953.40	1.50	1,362.00	2.00	1,816.00
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2726	1.25	1.50	4,089.00	1.00	2,726.00	1.25	3,407.50	0.50	1,363.00	0.50	1,363.00	1.25	3,407.50	2.00	5,452.00
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.	40	17.87	17.85	714.00	13.75	550.00	22.00	880.00	18.00	720.00	17.00	680.00	14.00	560.00	13.80	552.00
2506.522	ADJUST FRAME & RING CASTING	EACH	10	116.67	115.00	1,150.00	85.00	850.00	150.00	1,500.00	150.00	1,500.00	90.00	900.00	100.00	1,000.00	115.00	1,150.00
2535.501	BITUMINOUS CURB	L.F.	100	1.67	2.25	225.00	1.50	150.00	1.25	125.00	1.95	195.00	1.95	195.00	1.25	125.00	2.50	250.00
2554.501	TRAFFIC BARRIER, DESIGN A	L.F.	170	12.27	11.55	1,963.50	13.25	2,252.50	12.00	2,040.00	12.00	2,040.00	12.00	2,040.00	11.00	1,870.00	12.65	2,150.50
2575.505	SODDING	S.Y.	7000	1.13	1.10	7,700.00	1.25	8,750.00	1.05	7,350.00	1.20	8,400.00	1.25	8,750.00	1.05	7,350.00	1.15	8,050.00
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.25	374.08	362.25	90.56	415.00	103.75	345.00	86.25	350.00	87.50	350.00	345.00	87.50	345.00	265.00	66.25
554.607	BREAKAWAY CABLE TERMINAL (B.C.T.)	EACH	2	653.17	619.50	1,239.00	700.00	1,400.00	640.00	1,280.00	620.00	1,240.00	600.00	1,200.00	590.00	1,180.00	678.50	1,357.00
504.602	ADJUST VALVE BOX	EACH	4	65.00	90.00	360.00	60.00	240.00	45.00	180.00	95.00	380.00	60.00	240.00	90.00	360.00	86.00	344.00

NON-PARTICIPATING

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES															
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	98	183.33	190.00	18,620.00	180.00	17,640.00	180.00	17,640.00	190.00	18,620.00	190.00	18,620.00	190.00	18,620.00	175.00	17,150.00
2341.508	WEARING COURSE MIXTURE	TON	1,204	11.59	11.30	13,605.20	11.70	14,086.80	11.77	14,171.08	11.47	13,809.88	11.47	13,809.88	11.77	14,171.08	14.00	16,856.00
2331.518M	LEVELING COURSE MIXTURE	TON	467	11.42	10.90	5,090.30	11.60	5,417.20	11.77	5,496.59	11.45	5,347.15	11.45	5,347.15	11.77	5,496.59	15.00	7,005.00
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,417	1.40	1.60	2,267.20	1.10	1,558.70	1.50	2,125.50	1.05	1,487.85	1.05	1,487.85	1.50	2,267.20	2.00	2,834.00
2506.522	ADJUST FRAME & RING CASTING	EACH	13	116.67	115.00	1,495.00	85.00	1,105.00	150.00	1,950.00	150.00	1,950.00	90.00	1,170.00	100.00	1,300.00	115.00	1,495.00
504.602	ADJUST VALVE BOX	EACH	1	65.00	90.00	90.00	60.00	60.00	45.00	45.00	95.00	95.00	60.00	60.00	90.00	90.00	86.00	86.00
SUBTOTAL						\$145,421.80		\$167,735.90		\$168,035.83		\$173,855.83		\$174,755.73		\$183,487.42		\$216,838.91

PROSPERITY RD. STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES															
2021.501	MOBILIZATION	LUMP SUM	1	3,833.33	1,000.00	1,000.00	6,000.00	6,000.00	4,500.00	4,500.00	10,000.00	10,000.00	5,400.00	5,400.00	10,000.00	10,000.00	7,500.00	7,500.00
2104.501	REMOVE CULVERT PIPE *	L.F.	100	5.28	7.35	735.00	4.50	450.00	4.00	400.00	4.00	400.00	5.00	500.00	6.00	600.00	9.60	960.00
2105.501	COMMON EXCAVATION	C.Y.	7,330	3.19	0.93	6,816.90	3.90	28,587.00	4.75	34,817.50	3.50	25,655.00	3.85	28,220.50	4.09	29,979.70	6.30	46,179.00
2105.525	TOPSOIL BORROW	C.Y.	458	5.57	4.20	1,923.60	7.75	3,549.50	4.75	2,175.50	6.00	2,748.00	6.00	2,748.00	8.00	3,664.00	8.00	3,664.00
2105.523	COMMON BORROW (L.V.)	C.Y.	1,000	3.71	3.62	3,620.00	3.85	3,850.00	3.65	3,650.00	4.25	4,250.00	4.30	4,300.00	0.50	500.00	4.40	4,400.00
2211.501	AGGREGATE BASE, CLASS 6 OR 5 100% CRUSHED	TON	3,360	5.06	5.68	19,084.80	4.40	14,784.00	5.10	17,136.00	4.30	14,448.00	6.95	23,352.00	7.30	24,528.00	9.68	32,524.80
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	11,795	0.42	0.51	6,015.45	0.60	7,077.00	0.15	1,769.25	0.95	11,205.25	0.50	5,897.50	0.70	8,256.50	0.46	5,425.70
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	126	183.33	190.00	23,940.00	180.00	22,680.00	180.00	22,680.00	190.00	23,940.00	190.00	23,940.00	190.00	23,940.00	175.00	22,050.00
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	817	11.59	11.30	9,232.10	11.70	9,558.90	11.77	9,616.09	11.40	9,313.80	11.47	9,370.99	11.77	9,616.09	15.00	12,255.00
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	817	11.54	11.30	9,232.10	11.65	9,518.05	11.67	9,534.39	13.90	11,356.30	13.90	11,356.30	11.67	9,534.39	15.00	12,255.00
2331.518(M)	LEVELING COURSE MIXTURE FOR BIKEWAY	TON	594	11.42	10.90	6,474.60	11.60	6,890.40	11.77	6,991.38	11.45	6,801.30	11.45	6,801.30	11.77	6,991.38	15.00	8,910.00
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	900	1.40	1.60	1,440.00	1.10	990.00	1.50	1,350.00	1.05	945.00	1.05	945.00	1.50	1,350.00	2.00	1,800.00
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2,701	1.25	1.50	4,051.50	1.00	2,701.00	1.25	3,376.25	0.50	1,350.50	0.50	1,350.50	1.25	3,376.25	2.00	5,402.00
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE *	L.F.	100	17.87	17.85	1,785.00	13.75	1,375.00	22.00	2,200.00	18.00	1,800.00	17.00	1,700.00	14.00	1,400.00	13.80	1,380.00
2506.522	ADJUST FRAME & RING CASTING	EACH	10	116.67	115.00	1,150.00	85.00	850.00	150.00	1,500.00	150.00	1,500.00	90.00	900.00	100.00	1,000.00	115.00	1,150.00
2535.501	BITUMINOUS CURB *	L.F.	1430	1.67	2.25	3,217.50	1.50	2,145.00	1.25	1,787.50	1.95	2,788.50	1.95	2,788.50	1.25	1,787.50	2.50	3,575.00
2501.515	15" C.S. PIPE APRONS *	EACH	10	77.25	68.25	682.50	90.00	900.00	75.00	750.00	65.00	650.00	60.00	600.00	55.00	550.00	64.00	640.00
2575.505	SODDING	S.Y.	5,710	1.13	1.10	6,281.00	1.25	7,137.50	1.05	5,995.50	1.20	6,852.00	1.25	7,137.50	1.05	5,995.50	1.15	6,366.50
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.2	374.08	362.25	72.45	415.00	83.00	345.00	69.00	350.00	70.00	350.00	345.00	70.00	345.00	265.00	53.00
504.602	ADJUST VALVE BOX	EACH	7	65.00	90.00	630.00	60.00	420.00	45.00	315.00	95.00	665.00	60.00	420.00	90.00	630.00	86.00	602.00

NON-PARTICIPATING STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DRAIN INLET
GUARD RAIL
BARBED WIRE FENCE
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

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F. FRAME C. CONCRETE
S. STONE T. TILE
B. BRICK ST. STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

PLAN 10' 30' 50'
0' 20' 40'
LAYOUT 5280'

GROSS LENGTH 6,593 FEET = 1.25 MILES
BRIDGES - LENGTH 0 FEET = 0 MILES
EXCEPTIONS - LENGTH 650 FEET = .1231 MILES
NET LENGTH 5,943 FEET = .9930 MILES

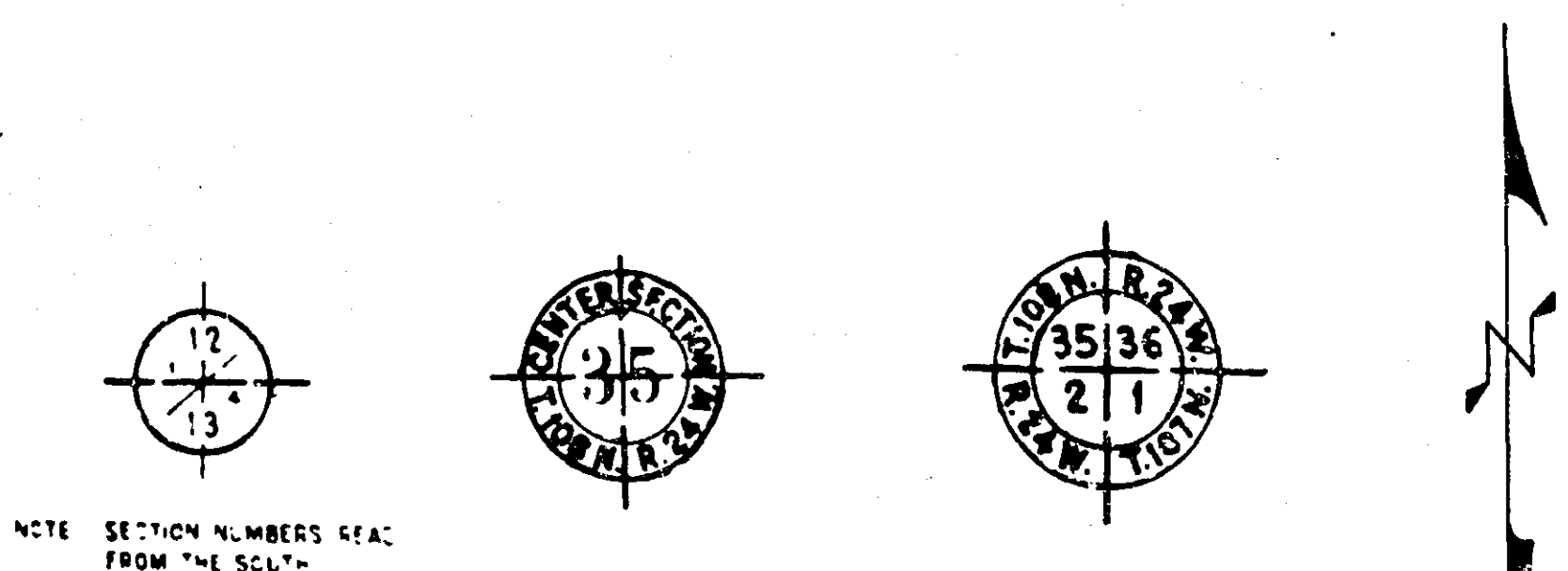
RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROAD "B" BIKEWAY CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY BETWEEN PROSPERITY ROAD AND NORTH ST. PAUL ROAD S.A.P. NO. 62-625-08

TRAFFIC VOLUME
ADT 1980 - 2,900
2000 - 3,100

UTILITIES SYMBOLS

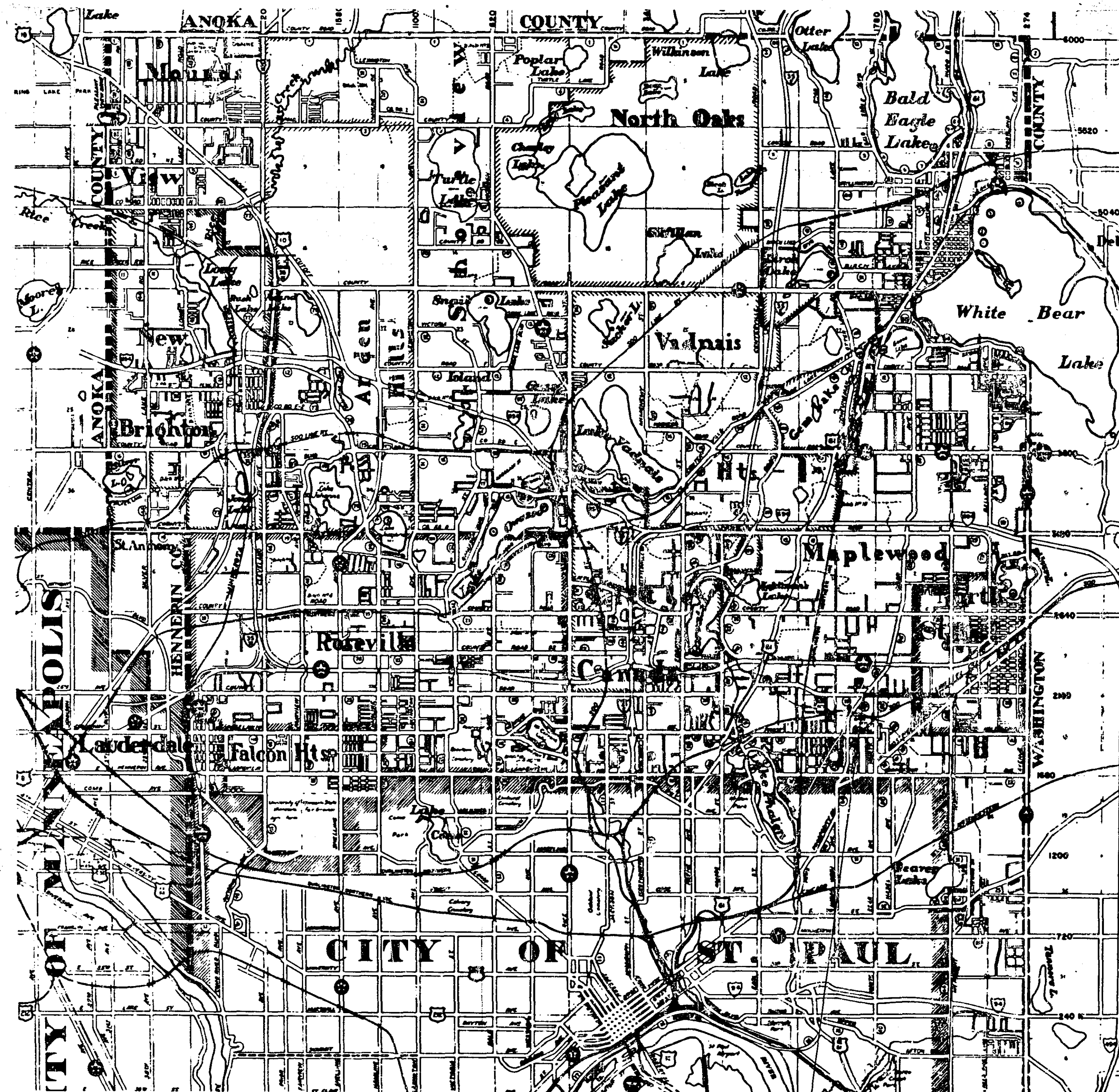
POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



PIT DATA

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



BEGIN PROJECT STA. 79+35
END PROJECT STA. 145+28

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTION
3-5	PLAN SHEETS

DESIGN SQUAD _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____

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.

DATE 3-16-81 REG. NO. 13501 ENGR. Larry F. J. J.

RECOMMENDED FOR APPROVAL *PLK* DATE 3-15-81
TRAFFIC ENGR.

RECOMMENDED FOR APPROVAL *RLH* DATE 2/27/81
CIVIL ENGR.

RECOMMENDED FOR APPROVAL *MDK* DATE 2/27/81
MAINT. ENGR.

RECOMMENDED FOR APPROVAL *DRU* DATE 2/27/81
CONSTR. ENGR.

RECOMMENDED FOR APPROVAL *LKF* DATE 3-16-81
DESIGN ENGR.

RECOMMENDED FOR APPROVAL *LAB* DATE 3-13/81
P.O. ENGR.

APPROVED *W. J. J.* DATE 3-13-81
SUPERVISING ENGR.

RECOMMENDED FOR APPROVAL *Robert A. J.* DATE 2-27-81
COUNTY ENGINEER

APPROVED *Robert A. J.* DATE 2-24-81
CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED *David J. J.* DATE 5-6-81
CITY OF NORTH ST. PAUL

APPROVED *Kenneth A. J.* DATE 5/7/81
CITY OF MAPLEWOOD

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL *Robert D. J.* DATE 5-22-81

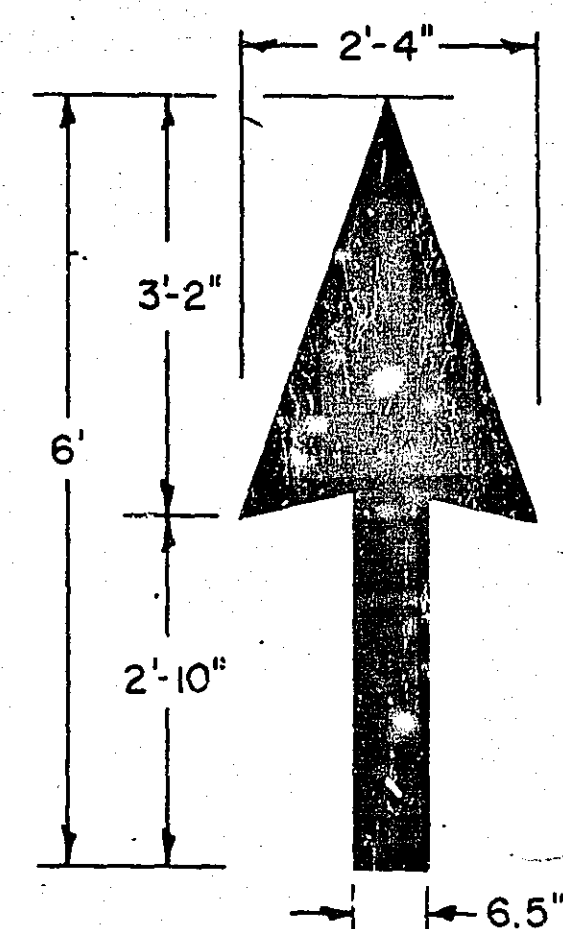
RECOMMENDED FOR APPROVAL *W. J. J.* DATE 5/10/81
DISTRICT STATE AID ENGINEER

APPROVED *W. J. J.* DATE 5/22/81
DIRECTOR, OFFICE OF STATE AID

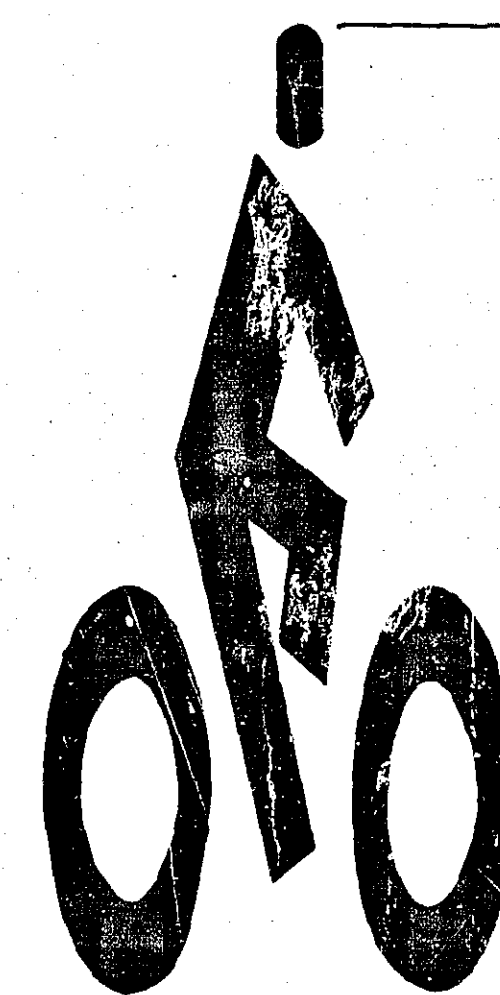
PLAN REVISIONS		
DATE	SHEET NO.	BY

THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	L.S.	1	
2105.501	COMMON EXCAVATION	C.Y.	6716	
2105.525	TOPSOIL BORROW	C.Y.	583	
2105.523	COMMON BORROW (L.V.)	C.Y.	700	
2211.501	AGGREGATE BASE, CLASS 6 OR 5, 100% CRUSHED	TON	3427	
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	11200	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	123	
2341.508	WEARING COURSE MIXTURE FOR BIKEWAY	TON	825	
2341.510	BINDER COURSE MIXTURE FOR BIKEWAY	TON	788	
2331.518 (M)	LEVELING COURSE MIXTURE FOR BIKEWAY	TON	575	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	908	
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	2726	
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.	40	
2506.522	ADJUST FRAME & RING CASTING	EACH	10	
2535.501	BITUMINOUS CURB	L.F.	100	
2554.501	TRAFFIC BARRIER, DESIGN A	L.F.	170	
2575.505	SODDING	S.Y.	7000	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.25	
554.607	BREAKAWAY CABLE TERMINAL (B.C.T.)	EACH	2	
504.602	ADJUST VALVE BOX	EACH	4	
NOTE: THE CONTRACTOR IS ADVISED THAT HE MAY USE AGGREGATE BASE, CLASS 6 OR, AS AN ALTERNATE, HE MAY USE 100% CRUSHED MATERIAL WHICH MEETS THE REQUIREMENTS OF CLASS 5 IN TABLE 3138-1 OF THE MN./D.O.T. STANDARD SPECIFICATIONS.				

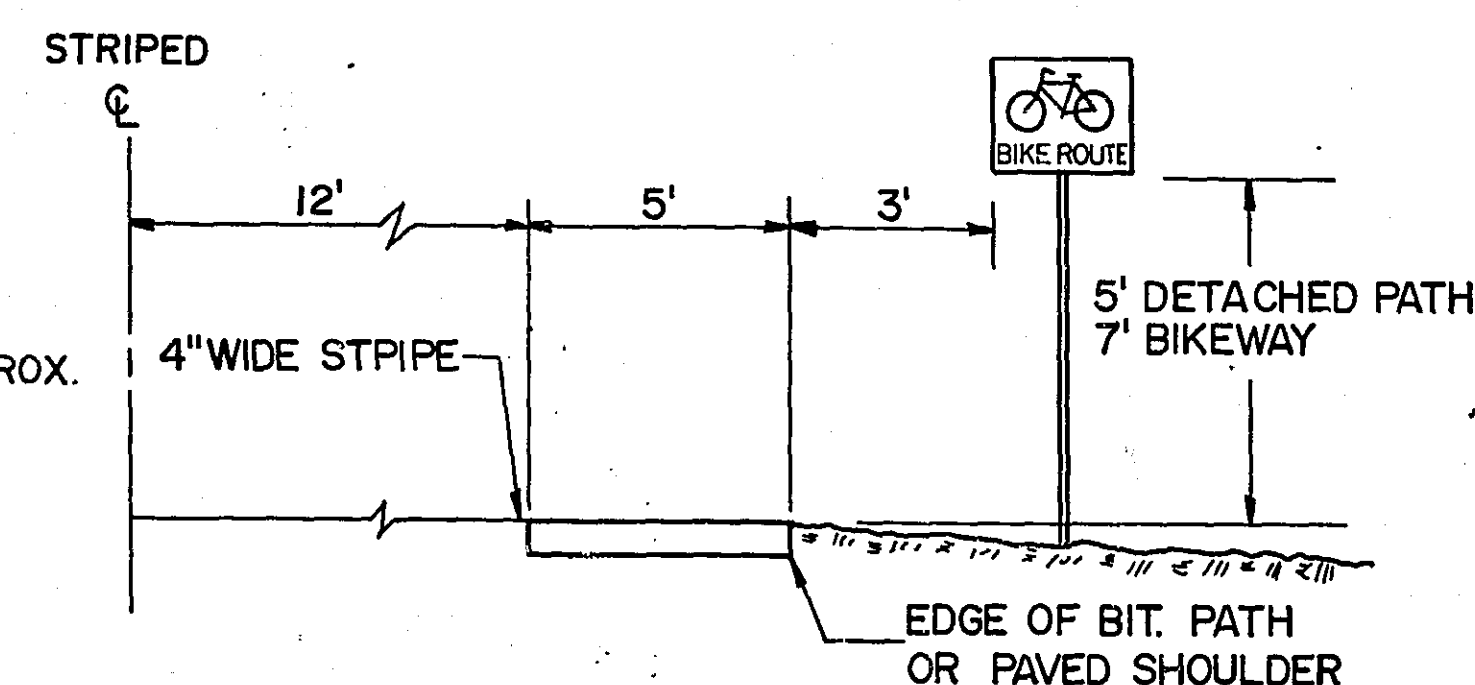


TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



SIGNING AND PAINTING BY OTHERS

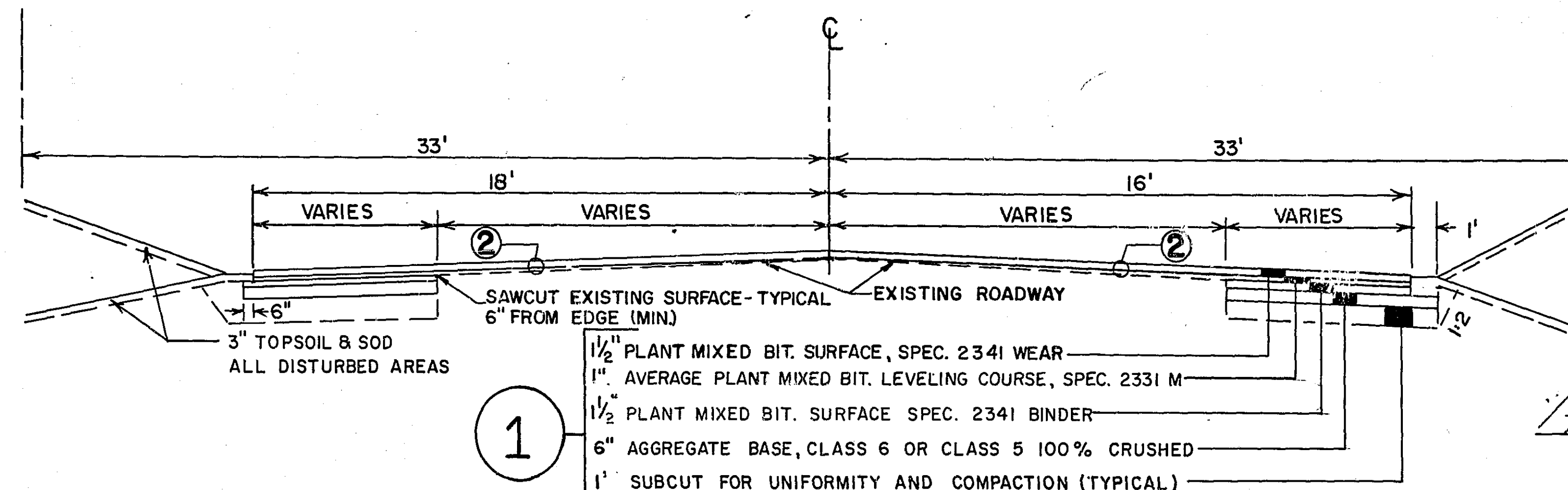
(1) BITUMINOUS MATERIAL SHALL BE PAID FOR UNDER 2341.504 "BITUMINOUS MATERIAL FOR MIXTURE"



STANDARD DETAIL PLATES	
0003 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3040 F	CORRUGATED METAL PIPE CULVERT
7065 C	BITUMINOUS CURB
8000 H	STANDARD BARRICADES
8307 L	STRUCTURAL PLATE BEAM GUARDRAIL
8329 A	BREAKAWAY CABLE TERMINAL (B.C.T.)
4108 E	MANHOLE ADJUSTING RING

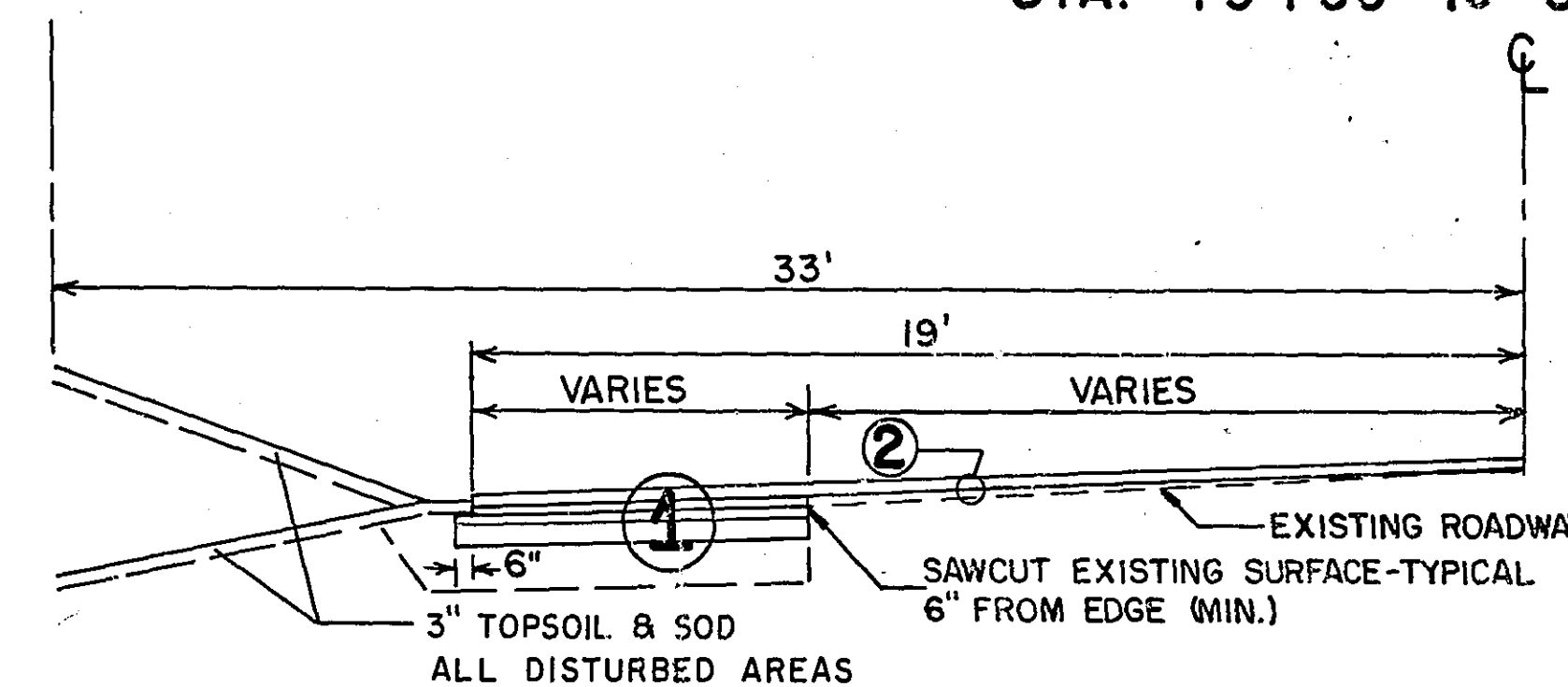
NON-PARTICIPATING

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	98
2341.508	WEARING COURSE MIXTURE	TON	1,204
2331.518 M	LEVELING COURSE MIXTURE	TON	467
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,417
2506.522	ADJUST FRAME & RING CASTING	EACH	13
504.602	ADJUST VALVE BOX	EACH	1



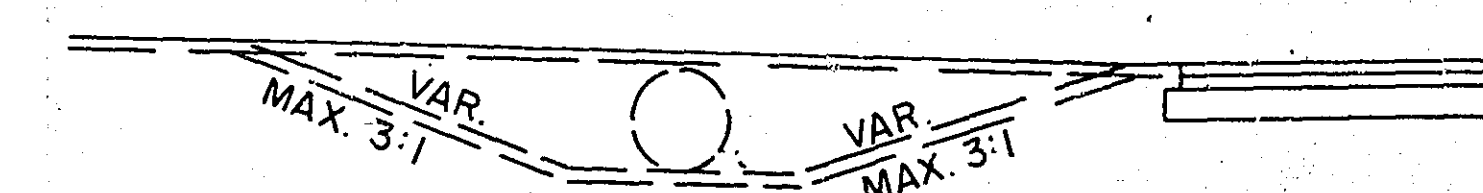
TYPICAL ENTRANCE TREATMENT

STA. 79+35 to STA. 139+02



STA. 139+02 to STA. 148+28
(NORTH SIDE OF ROADWAY ONLY)

NON-PARTICIPATING --- TO BE PAID FOR WITH COUNTY FUNDS
1 1/2" PLANT MIXED BIT. SURFACE, SPEC. 2341 WEAR
VARIABLE THICKNESS LEVELING COURSE MIXTURE, SPEC. 2331M



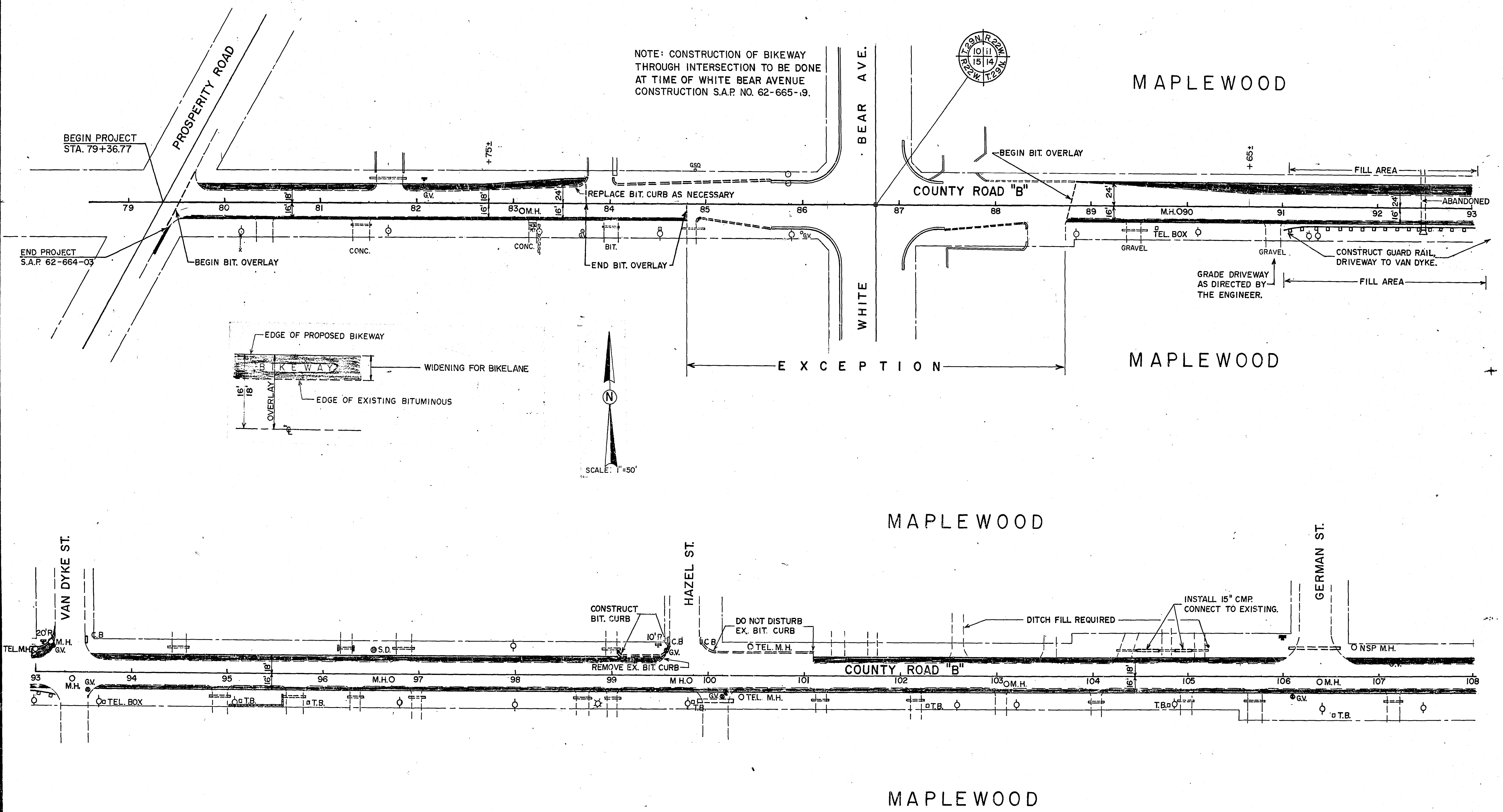
ENTRANCE CULVERT DETAIL

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

S.A.P. NO. 62-625-08

Sheet No. 2 of 5 Sheets

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.
Date 3-16-81 Reg. No. 13501



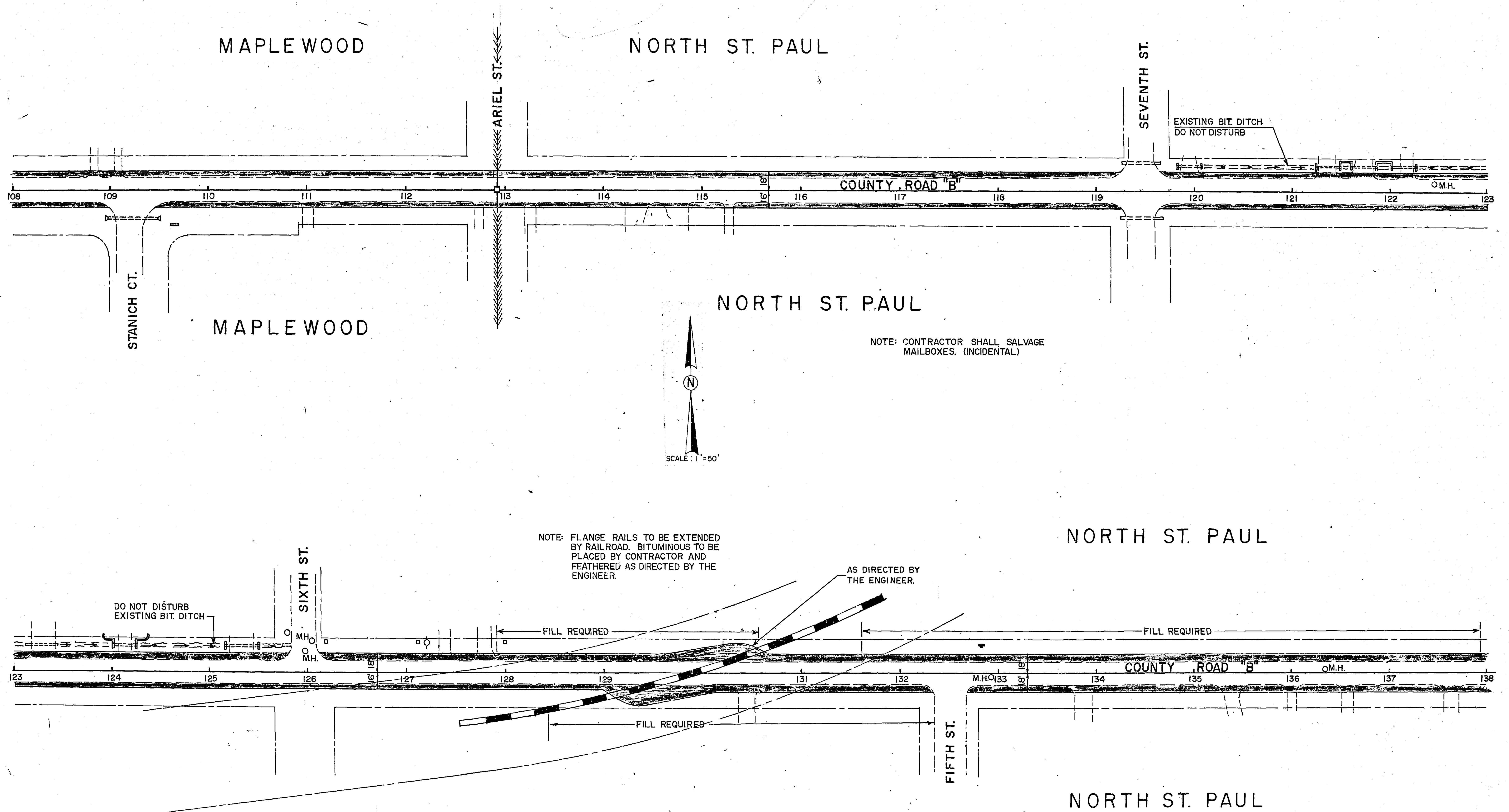
REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
GATE VALVES R30	5 MAY 81			

S.A.P. NO. 62-625-08

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.

[Signature]

Date 3-16-81 Reg. No. 13501



REVISED	DATE	DESIGNED BY	
		DRAWN BY	
		CHECKED BY	

S.A.P. NO. 62-625-08

Sheet No. 4 of 5 Sheets

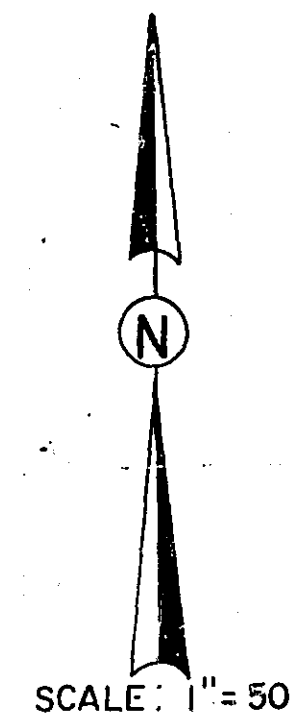
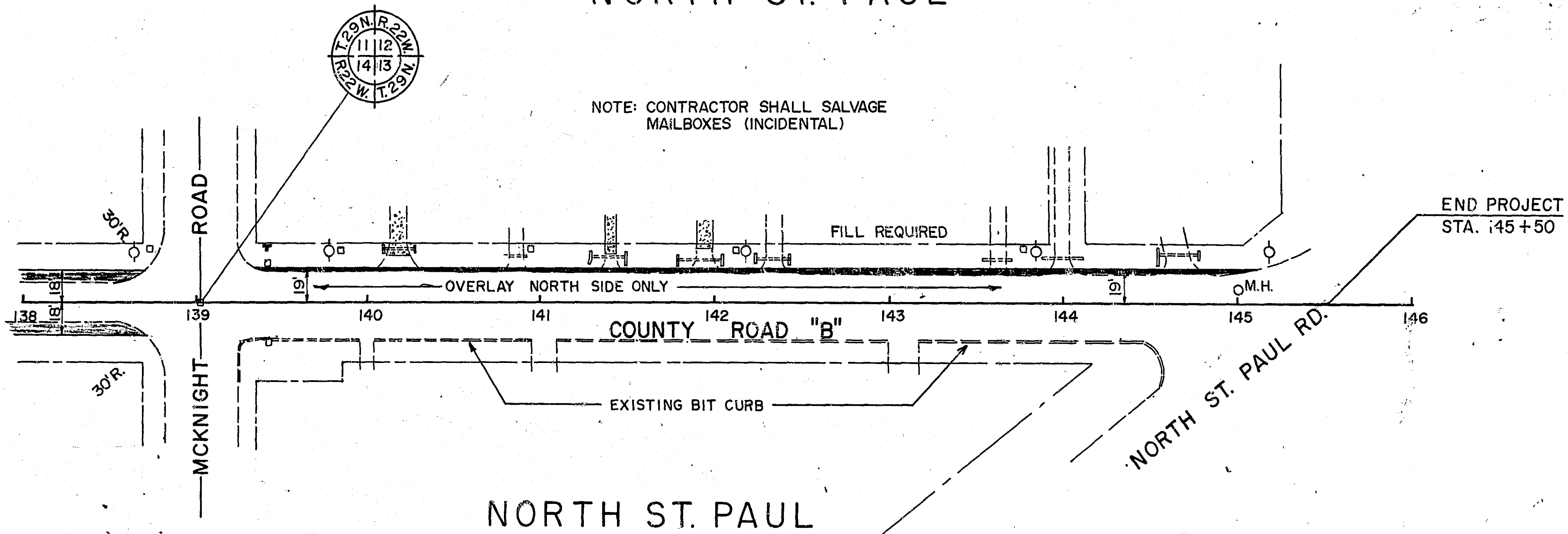
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Danny F. J. [Signature]

Date 3-16-81 Reg. No. 13501

NORTH ST. PAUL

NOTE: CONTRACTOR SHALL SALVAGE
MAILBOXES (INCIDENTAL)



REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

S.A.P. NO. 62-625-08

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.
Larry F. [Signature]
Date 3-16-81 Reg. No. 13501