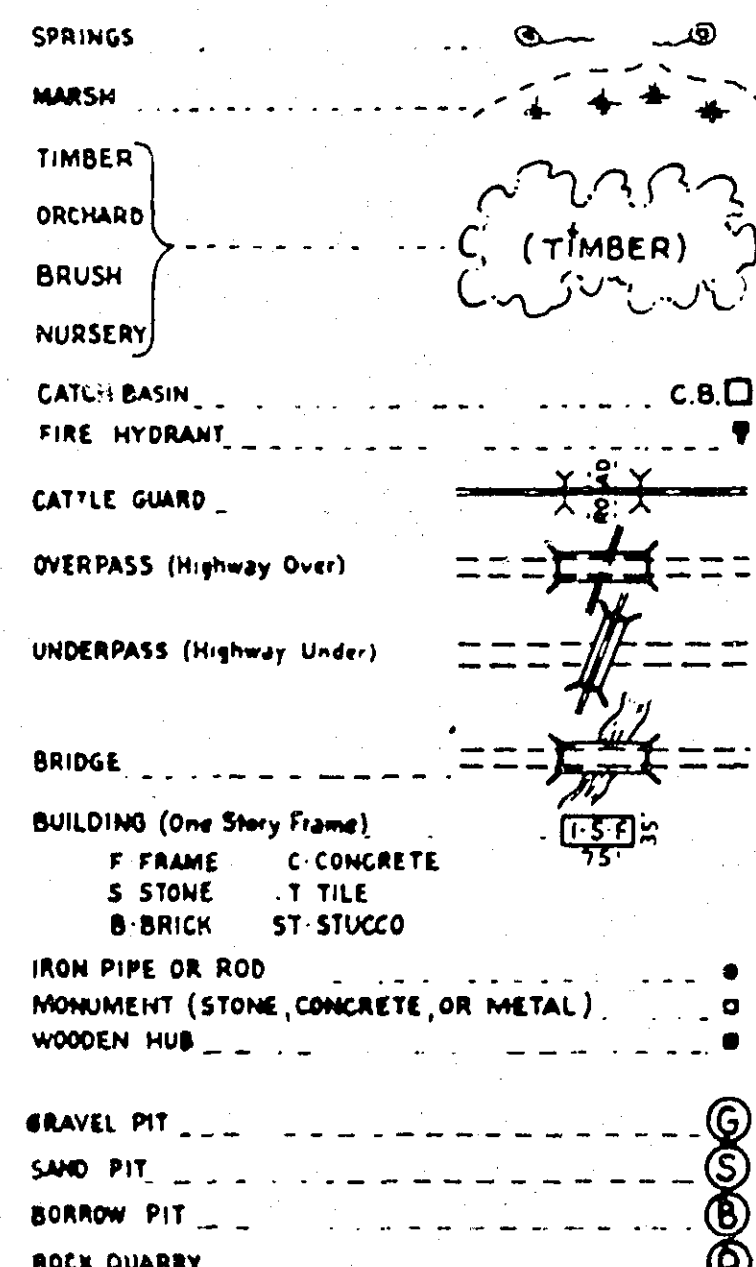
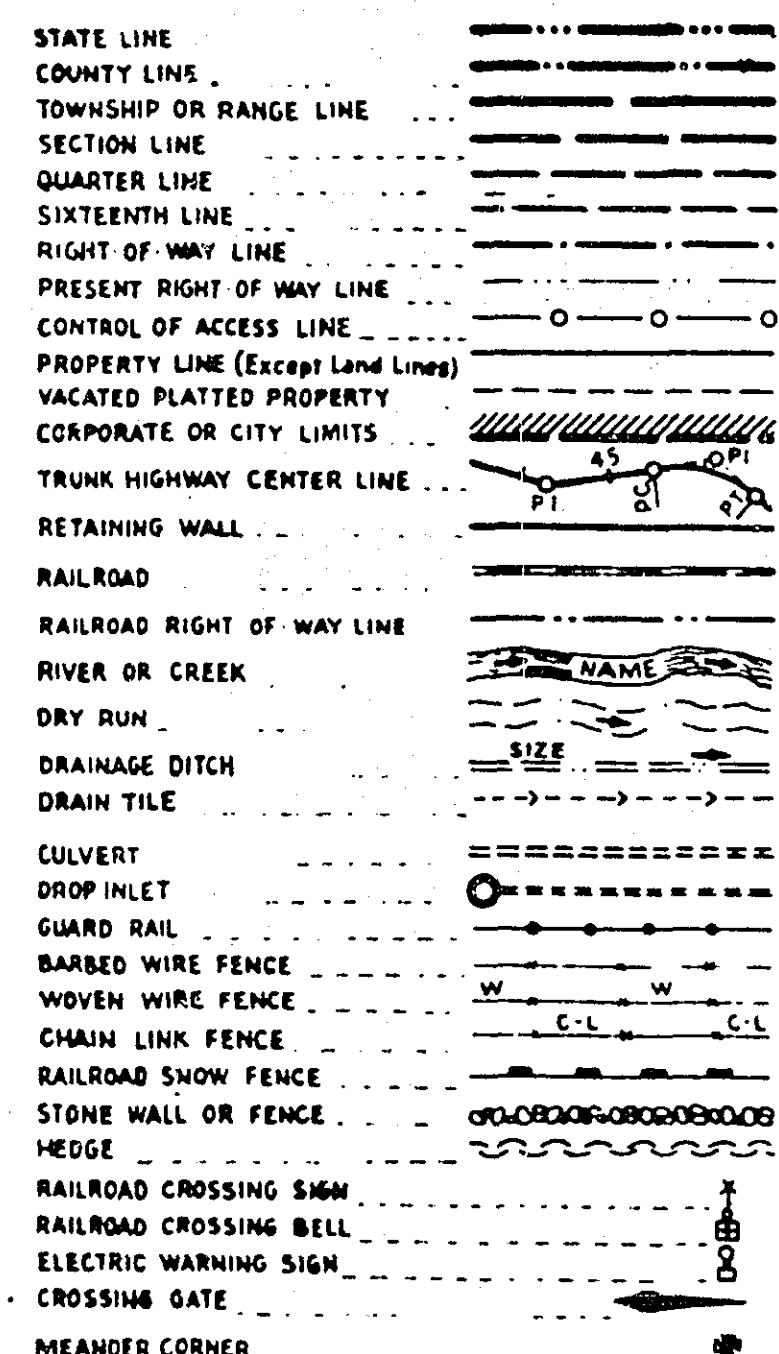
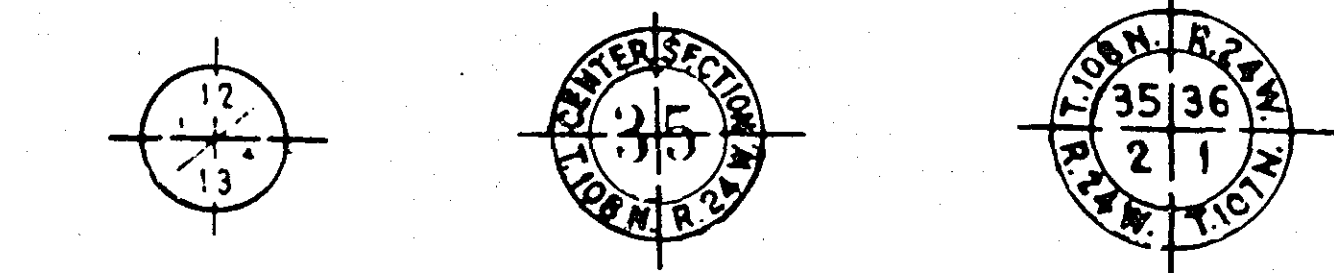
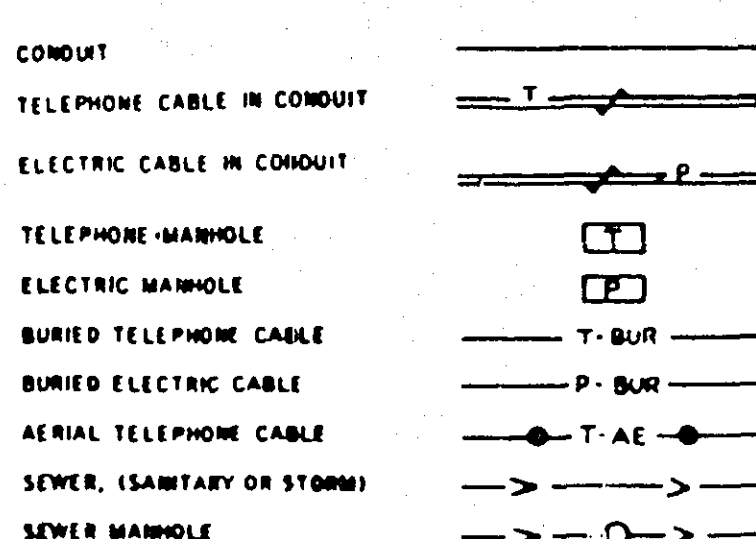
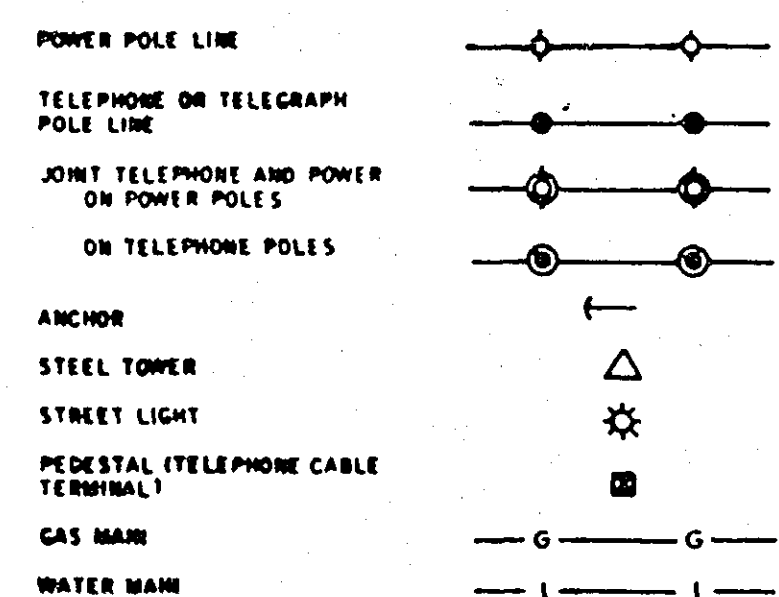


STATEMENT OF ESTIMATED QUANTITIES				AVERAGE 3 LOWEST BIDDERS		SHAFFER CONTR.		C.W. HOULE		TOTAL ASPHALT		FOREST LAKE		ASCHBACH CONST.		PALDA & SONS					
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
2021.501	MOBILIZATION	LUMP SUM	1	3746.67	5000.00	5000.00	2,640.00	2,640.00	3,600.00	3,600.00	8,000.00	8,000.00	3,500.00	3,500.00	7,695.10	7,695.10					
2101.502	CLEARING	TREE	4	175.00	100.00	400.00	25.00	100.00	100.00	400.00	100.00	400.00	190.00	760.00	75.00	300.00					
2101.507	GRUBBING	TREE	5	53.33	75.00	375.00	25.00	125.00	60.00	300.00	25.00	125.00	190.00	950.00	50.00	250.00					
2104.501	REMOVE FENCE	L.F.	20	4.00	2.00	40.00	2.00	40.00	8.00	160.00	10.00	200.00	1.65	33.00	3.00	60.00					
2104.505	REMOVE CONCRETE PAVEMENT	S.Y.	1760	2.25	1.75	3,080.00	2.00	3,520.00	3.00	5,280.00	4.30	7,658.00	1.80	3,168.00	3.00	5,280.00					
2105.501	COMMON EXCAVATION (P)	C.Y.	2512	3.18	2.50	6,280.00	3.80	9,545.60	3.25	8,164.00	2.70	6,782.40	2.85	7,159.20	4.25	10,676.00					
2105.523	COMMON BORROW (LV)	C.Y.	1442	3.12	3.50	5,047.00	2.50	3,605.00	3.35	4,830.70	3.70	5,335.40	6.00	8,652.00	7.00	10,094.00					
2105.525	TOPSOIL BORROW (LV)	C.Y.	296	5.83	6.50	1,924.00	5.00	1,480.00	6.00	1,776.00	5.70	1,687.20	7.60	2,249.66	7.00	2,072.00					
2130.501	WATER	(M)GAL.	15	10.67	10.00	150.00	12.00	180.00	10.00	150.00	16.00	240.00	25.00	375.00	2.00	30.00					
2211.501	AGGREGATE BASE, CLASS 6	TON	772	6.25	4.75	3,667.00	6.50	5,018.00	7.50	5,790.00	7.20	5,558.40	7.25	5,597.00	7.00	5,404.00					
2221.501	AGGREGATE SHOULDERING, CLASS 2	TON	74	8.00	6.00	444.00	10.00	740.00	8.00	592.00	7.20	532.80	10.00	740.00	8.00	592.00					
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	29.8	191.67	190.00	5,662.00	195.00	5,811.00	190.00	5,662.00	190.00	5,662.00	190.00	5,662.00	190.00	5,662.00					
2331.510	BINDER COURSE MIXTURE	TON	251	13.47	12.95	3,250.45	14.50	3,639.50	12.95	3,250.45	12.95	3,250.45	9.75	2,447.25	9.75	2,447.25					
2331.514	BASE COURSE MIXTURE	TON	365	13.37	12.80	4,672.00	14.50	5,292.50	12.80	4,672.00	12.80	4,672.00	9.50	3,467.50	9.50	3,467.50					
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	15.5	191.67	190.00	2,945.00	195.00	3,022.50	190.00	2,945.00	190.00	2,945.00	190.00	2,945.00	190.00	2,945.00					
2341.508	WEARING COURSE MIXTURE	TON	251	13.47	12.95	3,250.45	14.50	3,639.50	12.95	3,250.45	12.95	3,250.45	16.10	4,041.10	16.10	4,041.10					
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	244	1.30	1.45	353.80	1.00	244.00	1.45	353.80	1.45	353.80	1.20	292.80	1.20	292.80					
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	1007	0.44	0.65	654.55	0.01	10.67	0.65	654.55	0.65	654.55	1.00	1,007.00	1.00	1,007.00					
2506.509	CONSTRUCT CATCH BASIN DESIGN RC-2	EACH	1	800.00	900.00	900.00	700.00	700.00	800.00	800.00	750.00	750.00	985.00	985.00	600.00	600.00					
2503.511	15" RC PIPE SEWER, CLASS IV	L.F.	78	27.67	25.00	1,950.00	36.00	2,808.00	22.00	1,716.00	24.00	1,872.00	22.75	1,774.50	27.00	2,106.00					
2506.508	CONSTRUCT MANHOLE, DESIGN A OR F	EACH	1	1,050.00	900.00	900.00	1,000.00	1,000.00	1,250.00	1,250.00	1,050.00	1,050.00	1,150.00	1,150.00	1,200.00	1,200.00					
2506.509	CONSTRUCT SURFACE DRAIN, DESIGN A OR F	EACH	1	683.33	700.00	700.00	650.00	650.00	700.00	700.00	750.00	750.00	1,050.00	1,050.00	670.00	670.00					
2506.522	ADJUST FRAME AND RING CASTING	EACH	2	111.67	150.00	300.00	85.00	170.00	100.00	200.00	100.00	200.00	95.00	190.00	100.00	200.00					
2531.501	CONCRETE CURB & GUTTER, DESIGN B624	L.F.	333	7.33	6.50	2,164.50	8.50	2,830.50	7.00	2,331.00	7.00	2,331.00	9.55	3,180.15	8.00	2,664.00					
2531.503	CONCRETE MEDIAN (MOUNTABLE TYPE)	S.Y.	60	28.33	30.00	1,800.00	28.00	1,680.00	27.00	1,620.00	27.00	1,620.00	35.00	2,100.00	28.00	1,680.00					
2575.505	SODDING	S.Y.	3562	1.28	1.30	4,630.60	1.30	4,630.60	1.25	4,452.50	1.02	3,633.24	1.60	5,699.20	1.35	4,808.70					
2575.531	COMMERCIAL FERTILIZER ANALYSIS 12-12-12	TON	0.13	3.00	3.00	39.00	3.00	39.00	3.00	39.00	3.50	45.50	3.80	49.40	4.00	52.00					
0331.603	SAWING BITUMINOUS PAVEMENT SURFACE	L.F.	794	1.33	1.50	1,191.00	1.50	1,191.00	1.00	794.00	0.90	714.60	1.20	952.80	2.00	1,588.00					
C.S.A.H. FUNDS				SUBTOTAL		\$ 61,770.35		\$ 64,351.77		\$ 65,733.45		\$ 70,093.79		\$ 70,177.50		\$ 78,154.45					
NON-PARTICIPATING (BITUMINOUS PATH)																					
2211.501	AGGREGATE BASE, CLASS 6	TON	114	6.92	4.75	541.50	8.00	912.00	8.00	912.00	8.00	912.00	12.70	1,470.60	8.00	912.00					
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	13	191.67	190.00	247.00	195.00	253.50	190.00	247.00	190.00	247.00	190.00	247.00	190.00	247.00					
2331.510	BINDER COURSE MIXTURE	TON	24	15.00	13.75	330.00	17.50	420.00	13.75	330.00	13.75	330.00	11.85	284.40	11.85	284.40					
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	15	191.67	190.00	285.00	195.00	292.50	190.00	285.00	190.00	285.00	190.00	285.00	190.00	285.00					
2341.508	WEARING COURSE MIXTURE	TON	24	15.13	13.95	334.80	17.50	420.00	13.95	334.80	13.95	334.80	16.35	392.40	16.35	392.40					
R. & B. BIKE PATH CONST. ACCT. (No. 47107-040405) SUBTOTAL						\$ 1,738.30		\$ 2,298.00		\$ 2,108.80		\$ 2,108.80		\$ 2,679.40		\$ 2,120.80					
GRAND TOTAL						\$ 63,508.65		\$ 66,649.77		\$ 67,842.25		\$ 72,202.59		\$ 72,856.90		\$ 80,275.25					

PLANS SYMBOLS



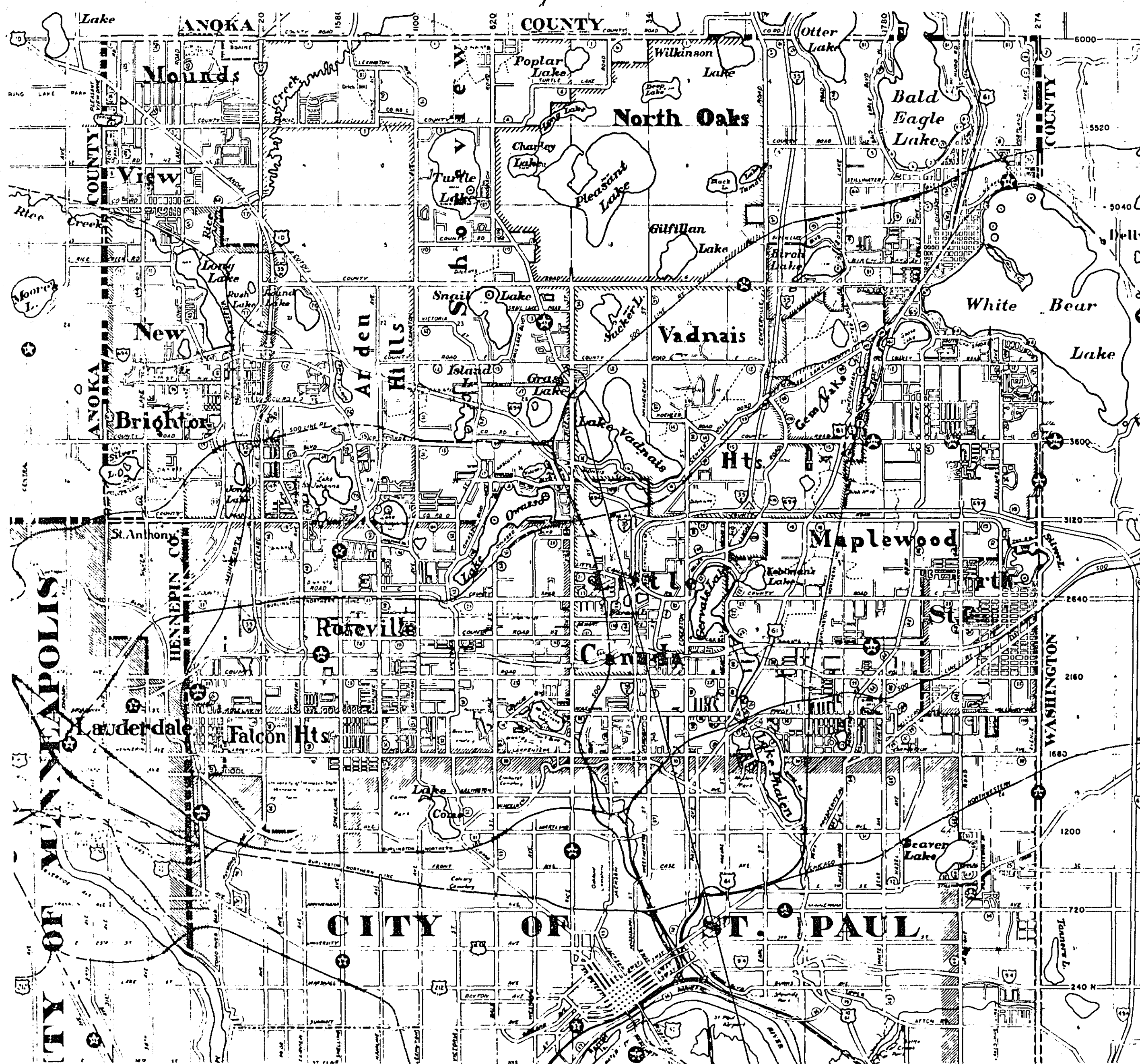
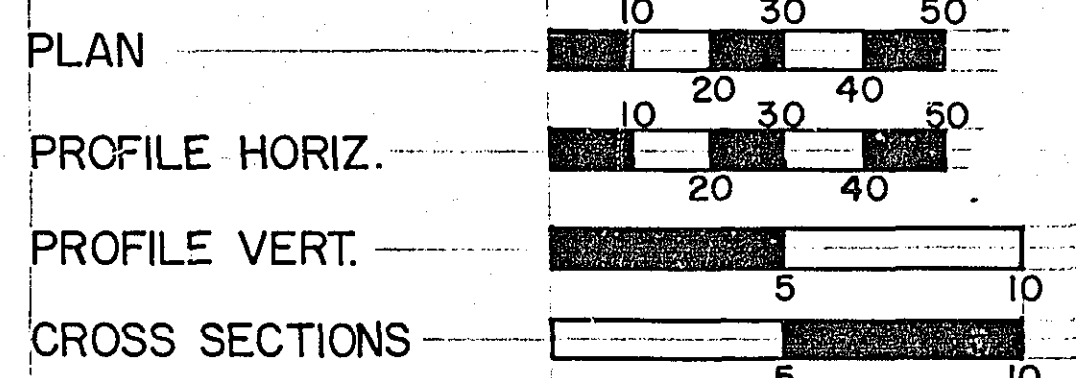
UTILITIES SYMBOLS



PIT DATA

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

GROSS LENGTH 421 FEET = 0.078 MILES
 BRIDGE LENGTH 0 FEET = 0 MILES
 EXCEPTIONS 0 FEET = 0 MILES
 NET LENGTH 421 FEET = 0.078 MILES



PROJECT LOCATION

DESIGN DESIGNATION

	1979	1999
RICE ST. A.D.T.	4350	7000
RICE ST. % HC.ADT.	5	5
D.H.V.	435	700
SOILS FACTOR	50%	

ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DONE BY: *[Signature]*
 DATE: 3/26/82

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION PLAN FOR: GRADING AND BITUMINOUS SURFACING.

RICE ST. & T.H. 49

ACCT. NO. 47221
 S.A.P. NO. 62-654-01

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	TYPICAL SECTION & DETAILS
4	PLAN & PROFILE
5-11	CROSS SECTIONS

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 5-19-81 REG. NO. 3501 ENGR. *[Signature]*

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-5-81

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-18-81

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-14-81

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-15-81

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-05-81

RECOMMENDED FOR APPROVAL *[Signature]* DATE 5-15-81

APPROVED *[Signature]* DATE 5-18-81

MINNESOTA DEPARTMENT OF TRANSPORTATION
 RECOMMENDED FOR APPROVAL *[Signature]* DATE 8-7-81
 RECOMMENDED FOR APPROVAL *[Signature]* DATE 7-24-81
 APPROVAL *[Signature]* DATE 8/7/81

PLAN REVISIONS		
DATE	SHEET NO.	BY
5 MAY 81	ENTIRE SET - S.A.P. NO. R30	
27 AUG 81	ADDENDUM #1	B.J.

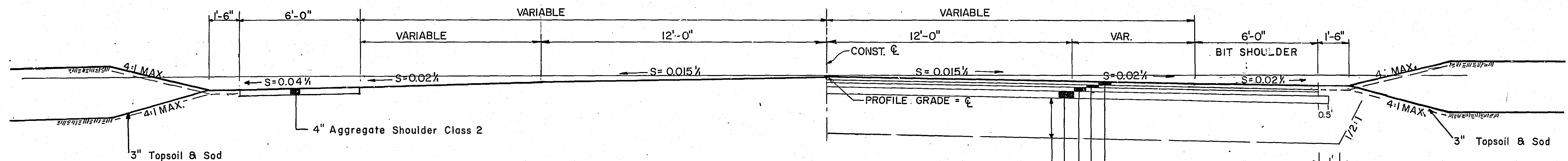
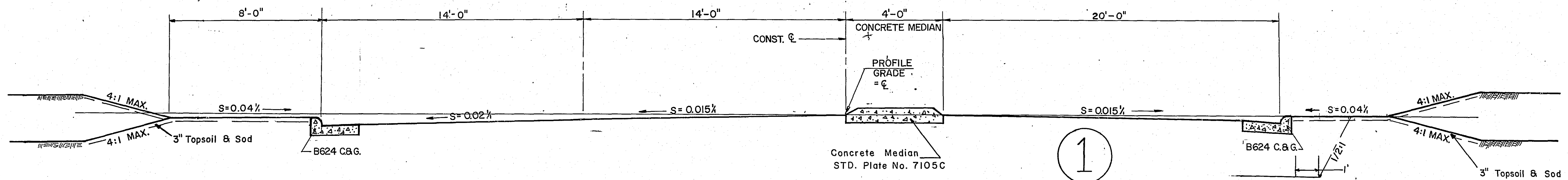
S.A.P. NO. 62-654-01

Sheet No. 1 of 11 Sheets

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

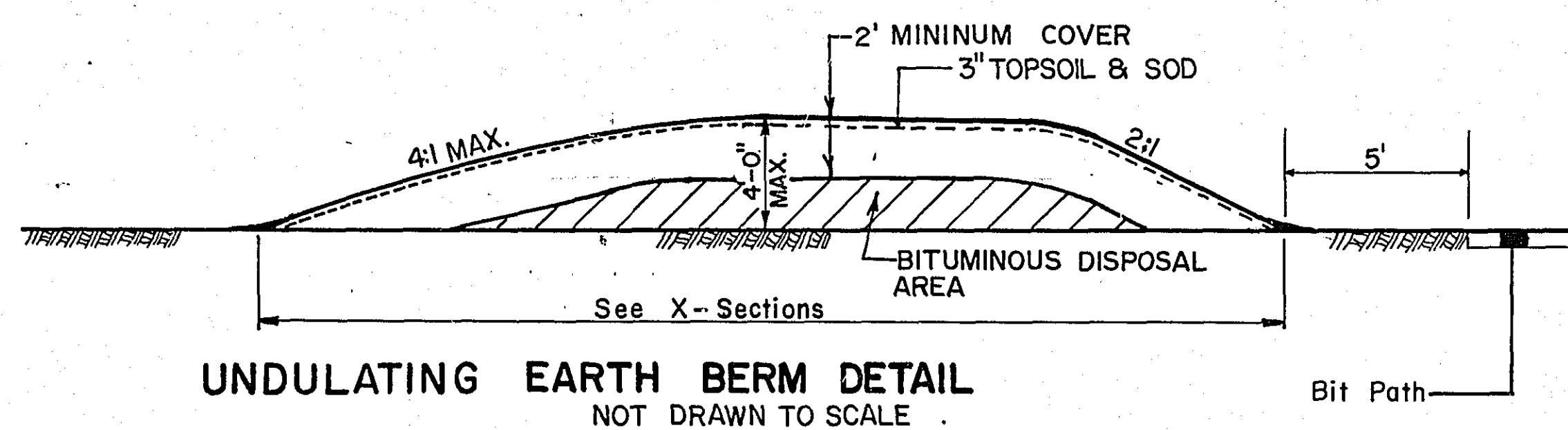
Sheets 1, 2, 4

25-122

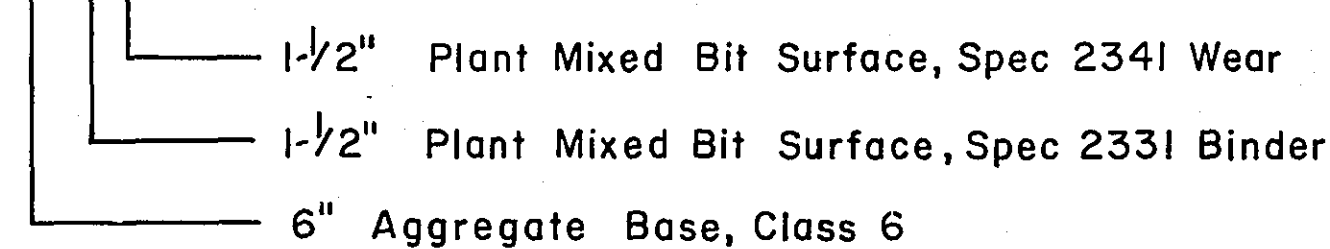


TYPICAL SECTIONS

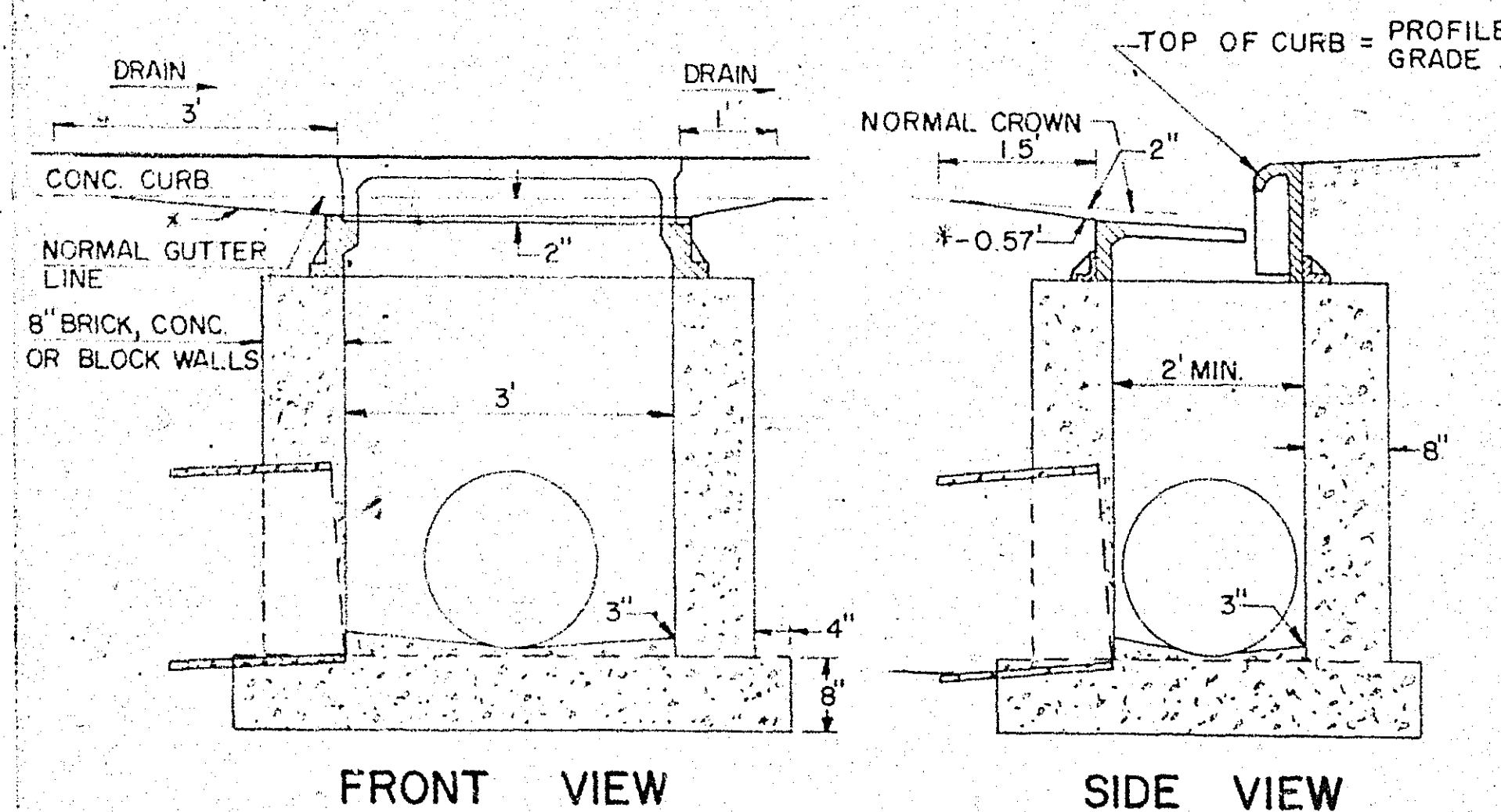
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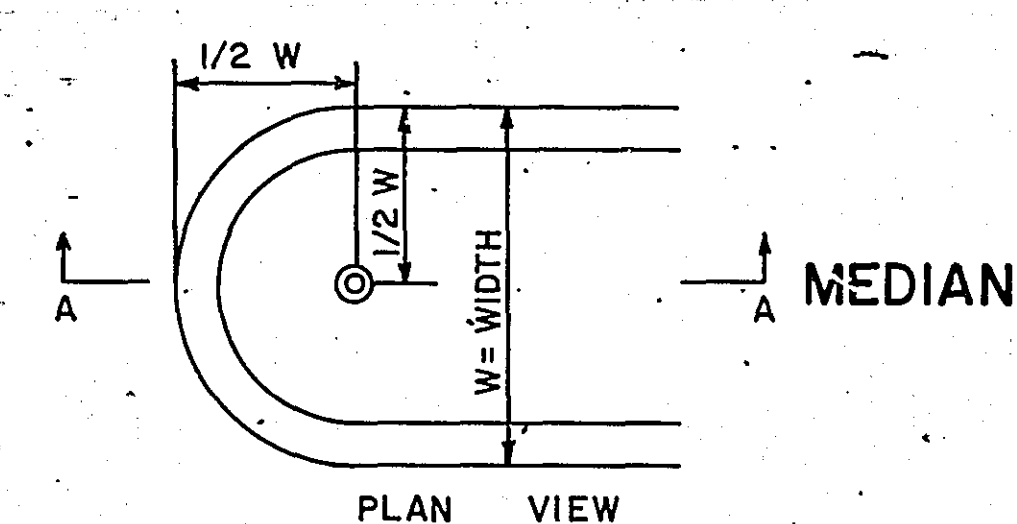
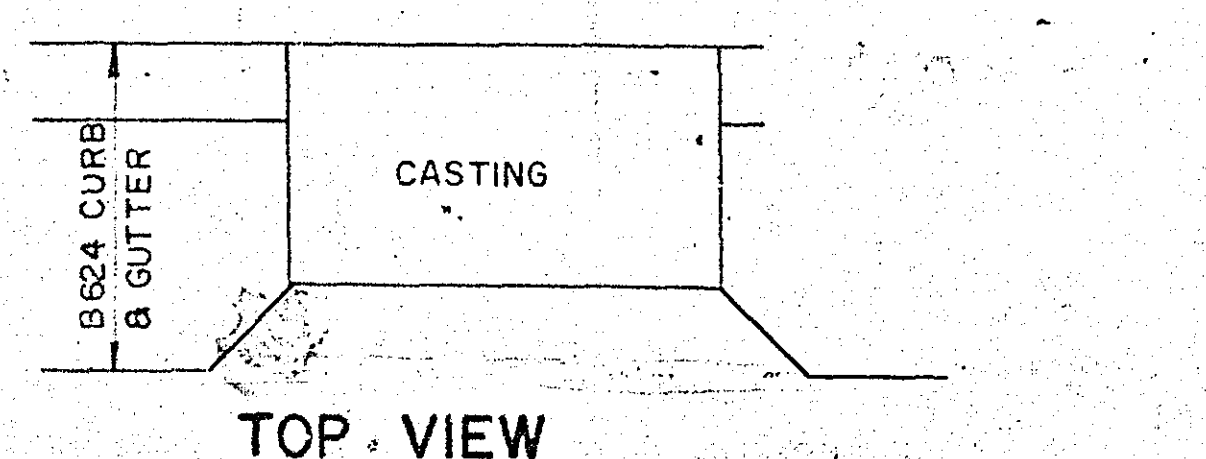
DETACHED BITUMINOUS PATH



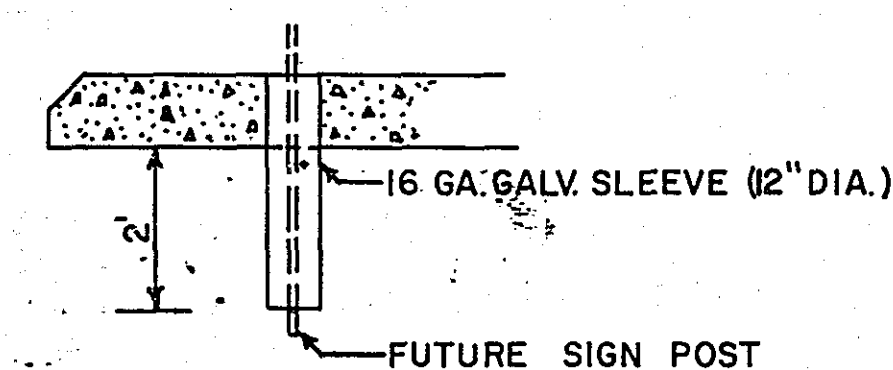
CATCH BASIN DESIGN NO. R.C.-2



NOTE: NEENAH INLET FRAME, GRATE & CURB BOX NO. R-3067 OR EQUAL, (INCLUDE WITH STRUCTURE, NOT SEPARATE PAY ITEM.)

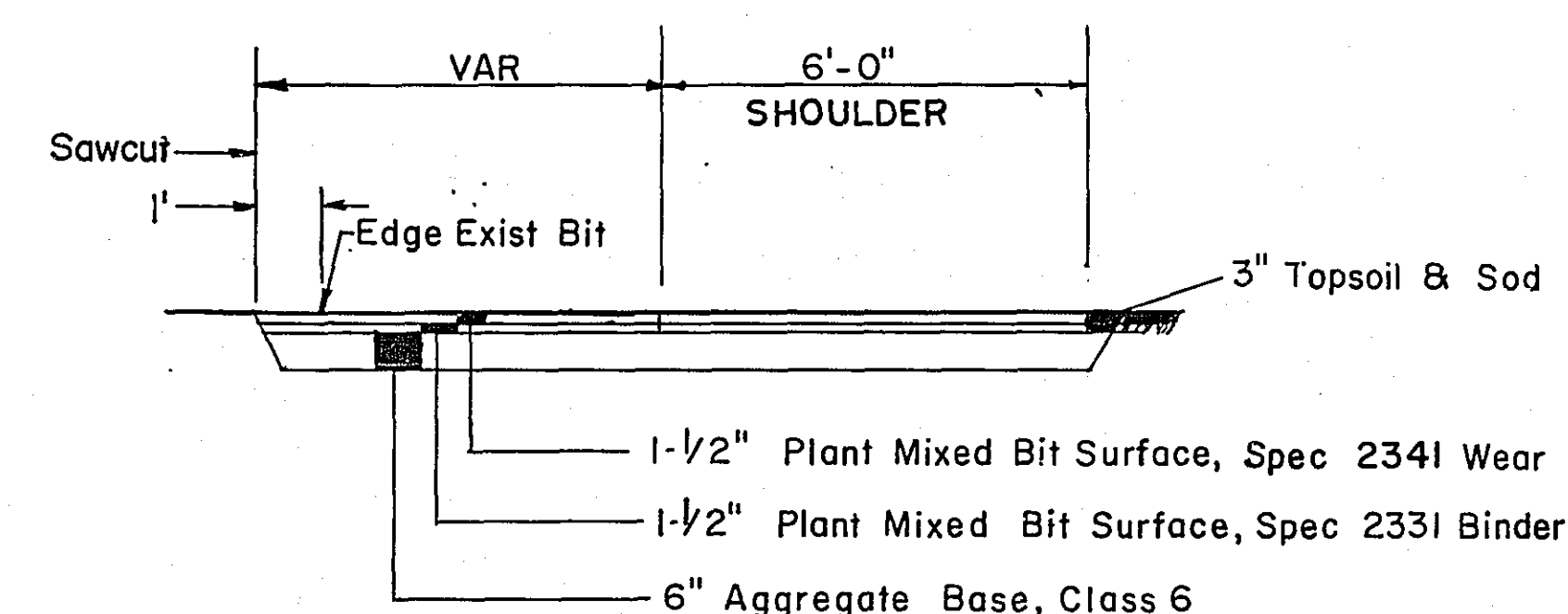


PLACEMENT OF MEDIAN HOLES

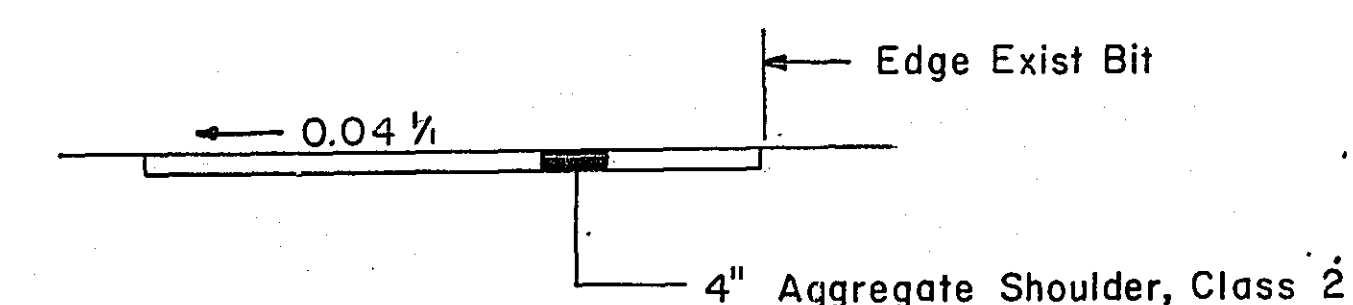


NOTES:

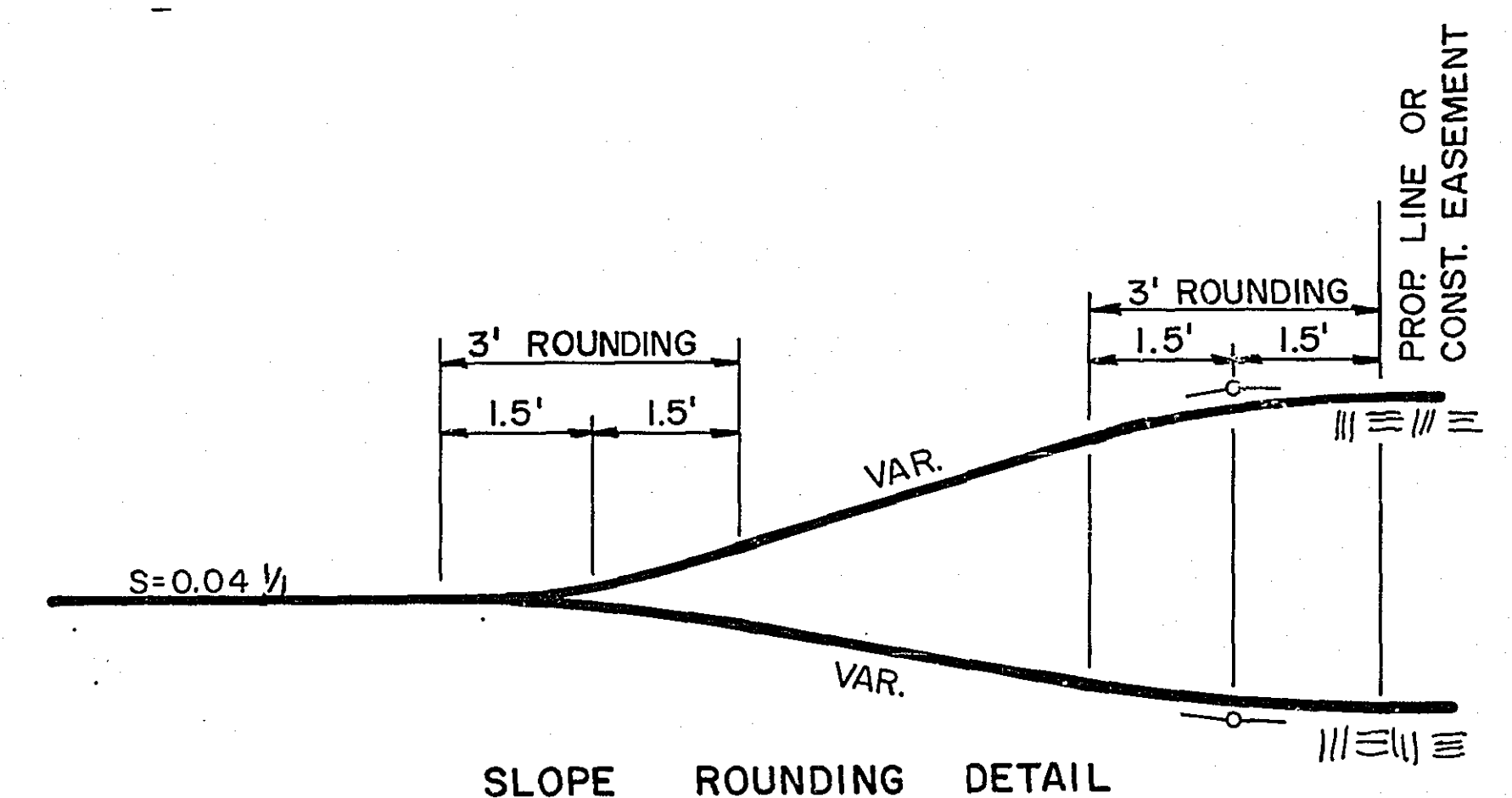
- 1) PAYMENT FOR SLEEVE TO BE INCIDENTAL AND INCLUDED IN ITEM NO. 2531.503 CONCRETE MEDIAN.
- 2) WHERE CONCRETE MEDIAN IS PLACED ON EXISTING CONCRETE PAVEMENT, THE EXISTING PAVEMENT SHALL BE BROKEN OUT TO ACCOMMODATE SLEEVE, PAYMENT SHALL BE INCIDENTAL TO ITEM NO. 2531.503.
- 3) * DENOTES PLACEMENT OF MEDIAN HOLES ON CONSTRUCTION PLAN.



RT 3+66 to 4+21 AND SUZANNE AVE



TYPICAL AGGREGATE SHOULDER SECTION



ASBUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY: *CR*
DATE: 3/26/82

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
RJO	5/11/81			

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.
James J. J. J.
Date: 6-15-81 Reg. No. 13501

TYPICAL SECTION DETAILS

S.A.P. NO. 62-654-01

Sheet No. 3 of 11 Sheets

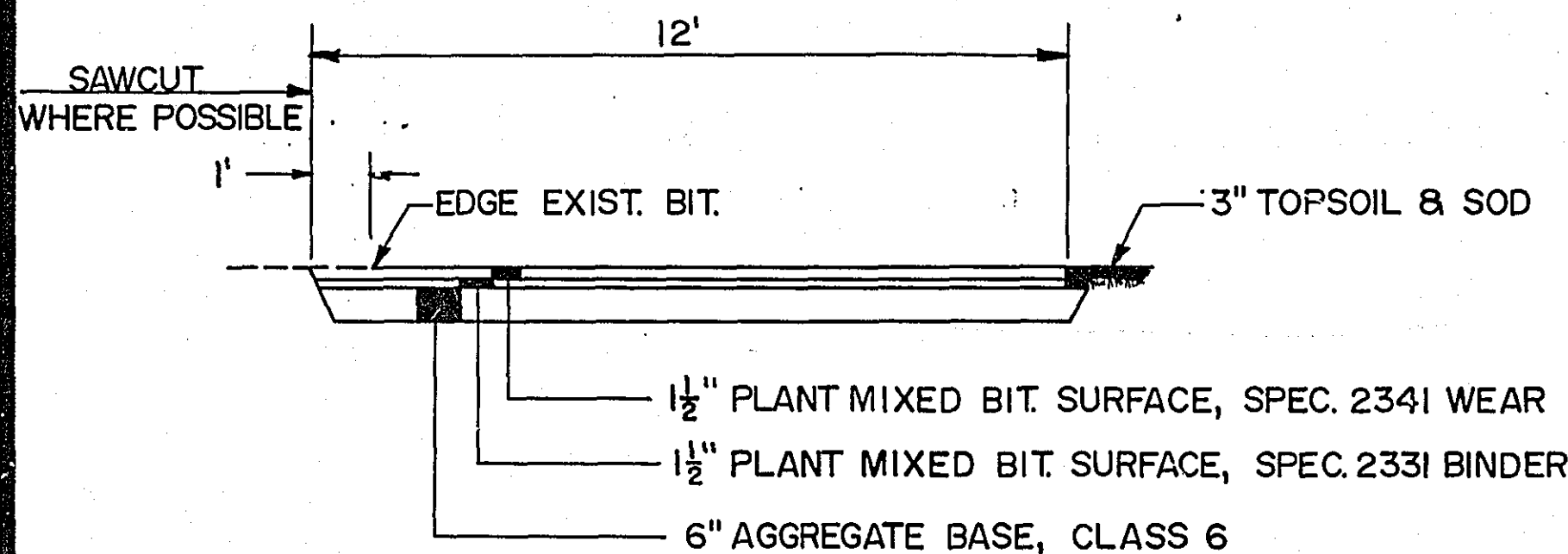
25-122

CONSTRUCTION NOTES

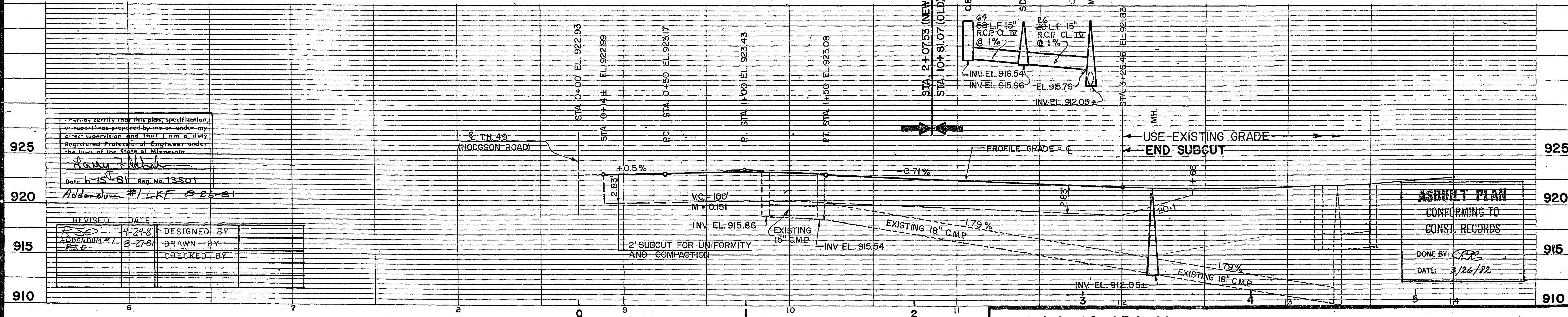
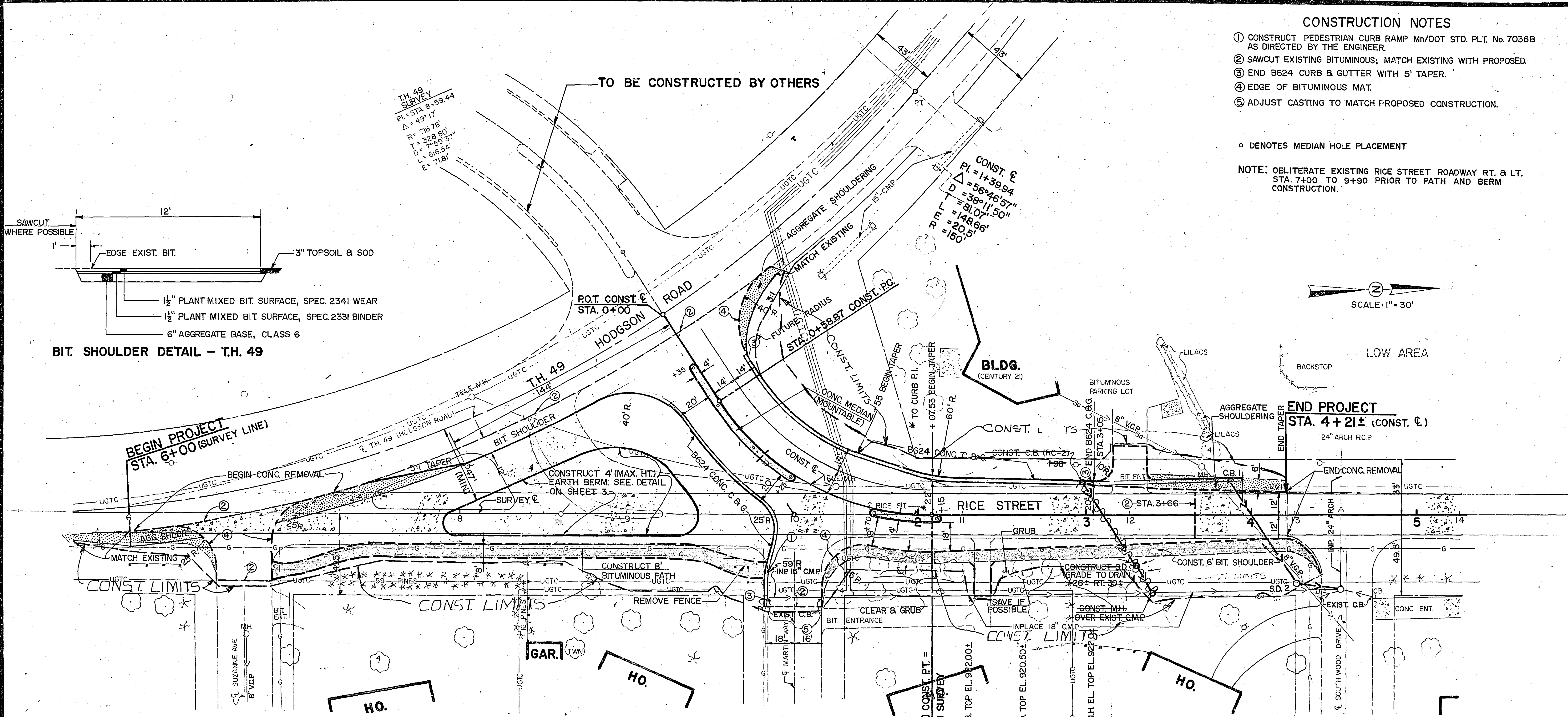
- ① CONSTRUCT PEDESTRIAN CURB RAMP Mn/DOT STD. PLT. No. 7036B AS DIRECTED BY THE ENGINEER.
- ② SAWCUT EXISTING BITUMINOUS; MATCH EXISTING WITH PROPOSED.
- ③ END B624 CURB & GUTTER WITH 5' TAPER.
- ④ EDGE OF BITUMINOUS MAT.
- ⑤ ADJUST CASTING TO MATCH PROPOSED CONSTRUCTION.

○ DENOTES MEDIAN HOLE PLACEMENT

NOTE: OBLITERATE EXISTING RICE STREET ROADWAY RT. & LT. STA. 7+00 TO 9+90 PRIOR TO PATH AND BERM CONSTRUCTION.



BIT SHOULDER DETAIL - T.H. 49



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 6-15-81 Reg. No. 13501
 Addendum #1 LKF 8-26-81

REVISED	DATE	DESIGNED BY
ADDENDUM #1	8-27-81	DRAWN BY
		CHECKED BY

ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *[Signature]*
 DATE: 3/26/92

Fed. Proj. No.

EXC

EMB

7+00 923.79

6+84 23.79

6+69 23.81

6+53 23.84

6+00 924.00

SUZANNE AVE.

SUZANNE AVE.

SURVEY E

BEGIN PROJECT STA 6+00

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: GFB
DATE: 3/26/02

S.A.P. NO. 62-654-01

Sheet No. 5 of 11 Sheets

25-122

REVISED DATE

DESIGNED BY	
DRAWN BY	
CHECKED BY	

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.

Randy Fildes
Date: 6-19-01 Reg. No. 13501

Fed. Proj. No.

EXC EMB

SEE STA 1100 SHEET NO. 8

SURVEY Q

9+50 22.58

VAR.

35 139

9+00 22.66

4.1

36 241

8+50 23.08

24 132

8+00 23.61

28 29

7+52 923.72

R/W

30 0

REVISED	DATE	DESIGNED BY	
		DRAWN BY	
		CHECKED BY	

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 Feldman
 Date: 6-15-81 Reg. No. 13501

ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DONE BY: *CR*
 DATE: 3/26/82

S.A.P. NO. 62-654-01

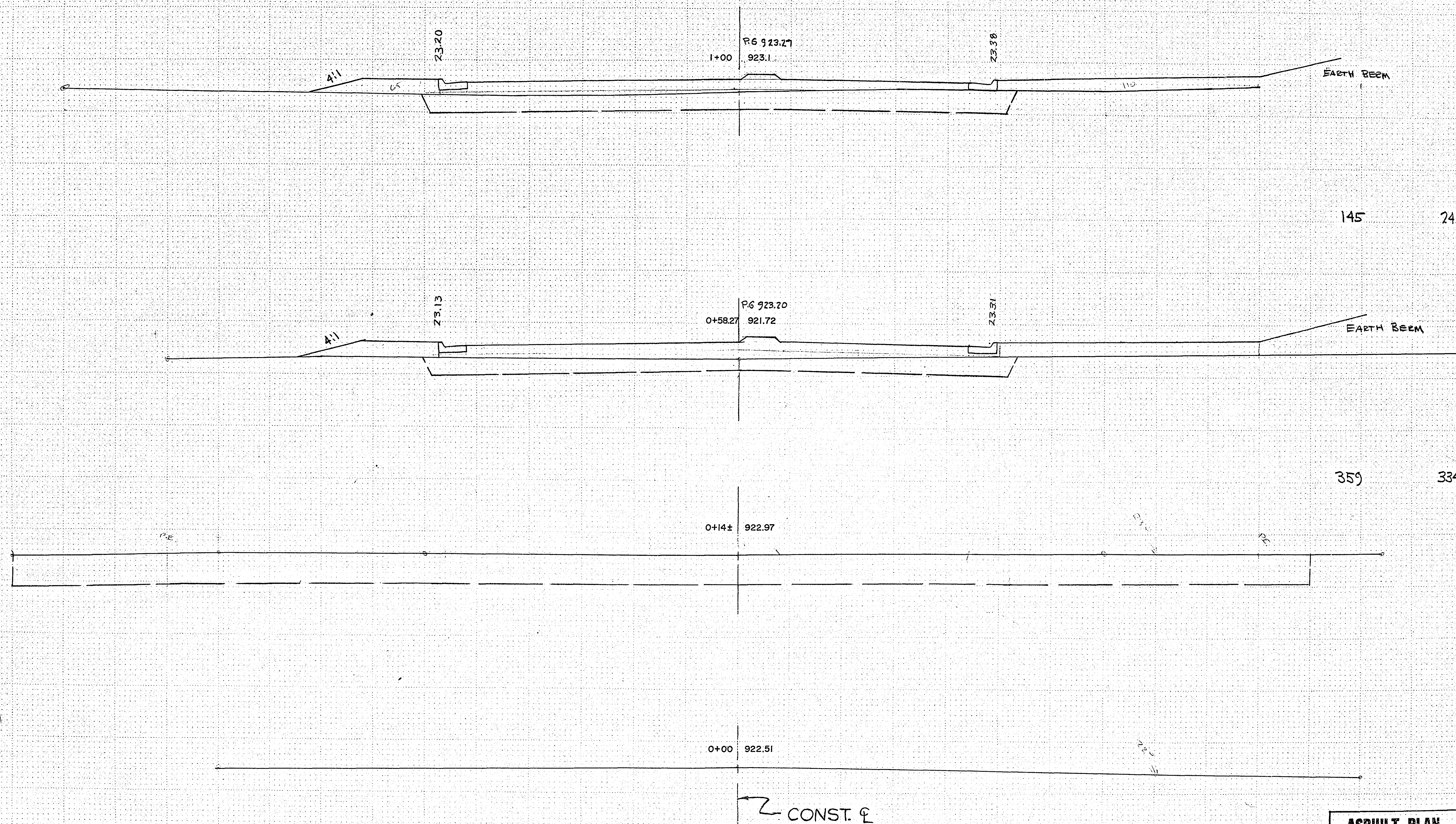
Sheet No. 6 of 11 Sheets

25-122

Fed. Proj. No.

EXC

EMB



145

244

359

334

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

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 6-15-81 Reg. No. 13501

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *CRB*
DATE: 3/26/82

S.A.P. NO. 62-654-01

Sheet No. 7 of 11 Sheets

25-122

Fed. Proj. No.

EXC

EMB

922.91 LT 26.52'

PG. 922.95
1+68 922.3

22.68
LT 22'

23.01

PG. 923.08
1+50 922.2

22.81
LT 22'

MARTIN WAY

130

109

WATCH GRADE TO EXISTING C.B.

320

333

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.
Barry Feldman
Date 6-15-81 Reg. No. 13501

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *CRB*
DATE: 3/26/82

S.A.P NO. 62-654-01

Sheet No. 8 of 11 Sheets

25-122

CONST &

Fed. Proj. No.

EXC

EMB

R/W

R/W

2+75

P.C. 922.19

11+50 22.01

922.27 LT 20.6'

921.87 LT 17.1'

GRADE TO DRAIN
TO 5.0'

212

157

2+36

P.C. 922.47

11+10 22.14

922.53 LT 21.4'

921.11 LT 21.1'

49

18

2+27

P.C. 922.53

11+00 22.18

922.59 LT 21.6'

921.16 LT 21.6'

94

70

2+10

P.C. 922.65

10+84 922.22

922.70 LT 21.95'

921.28 LT 21.2'

SURVEY &
CONST. &
COINCIDE

229

183

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.
David F. Johnson
Date: 6-15-81 Reg. No. 13501

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *STP*
DATE: 5/26/92

S.A.P. NO. 62-654-01

Sheet No. 9 of 10 Sheets

25-122

Fed. Proj. No.

Exc

Emb

4+40

13+14

21.89

R/W

END PROJECT STA 4+21±

9

14

3+88

12+62

21.77

R/W

6

9

3+70

12+43

21.74

207

129

3+27

12+00

921.83

ENT

GRADE TO DRAIN TO
SURFACE DRAIN

295

193

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.
Barry F. J. J.
Date 6-15-81 Reg. No. 13501

REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *CRP*
DATE: 3/24/82

S.A.P NO. 62-654-01

Sheet No. 10 of 11 Sheets

25-122

10

Fed. Proj. No.

EXC

EMB

R/W

5+27

14+00

22.88

R/W

Remove Old Rd.

GRAND TOTALS

2286 CY

2334 CY

617 CY

617 CY

2903 CY

2951 CY

X 130%

3836 CY

- 2903 CY

933 CY BORROW

4+72

13+46

22.15

4+57

13+31

921.97

STREET

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 6-15-81 Reg. No. 13501

DESIGNED BY	
DRAWN BY	
CHECKED BY	
REVIEWED BY	
DATE	

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: SFR
DATE: 5/26/82

S.A.P. NO. 62-654-01

Sheet No. 11 of 11 Sheets

25-122