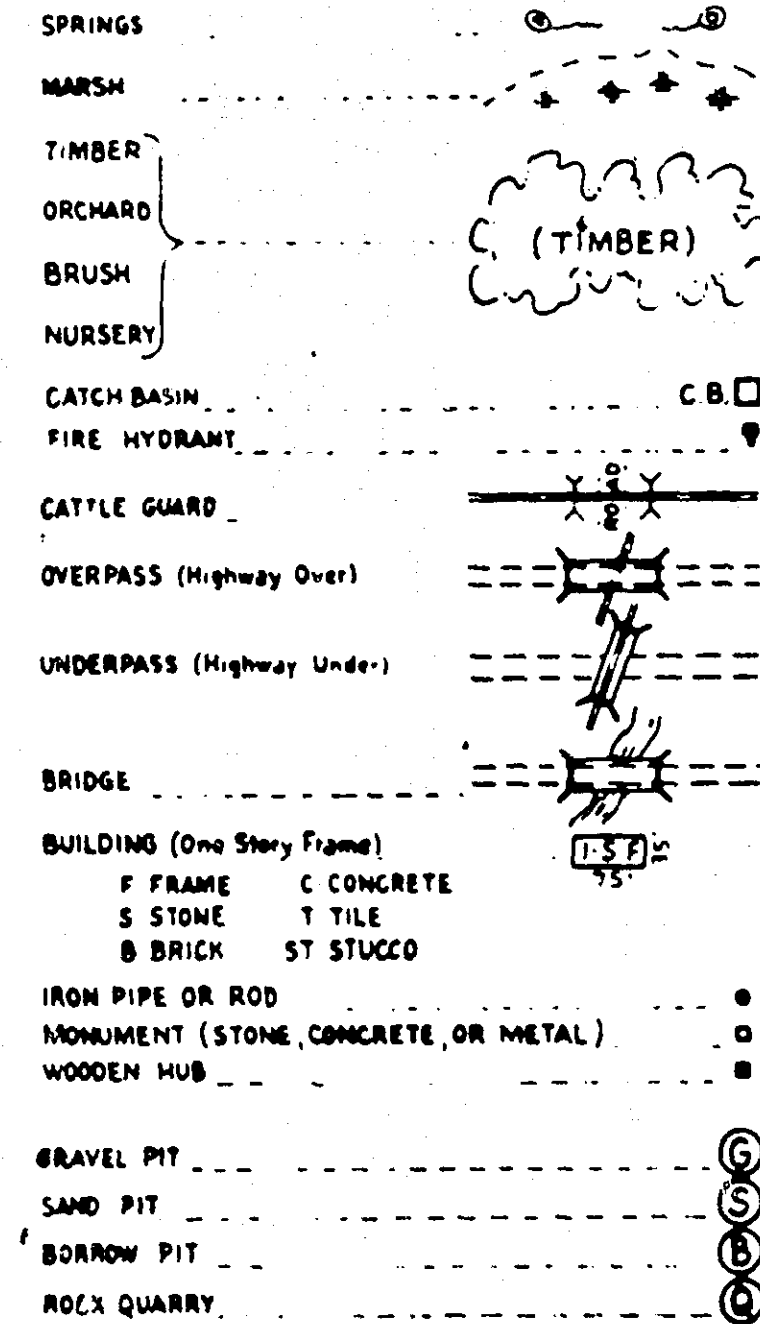
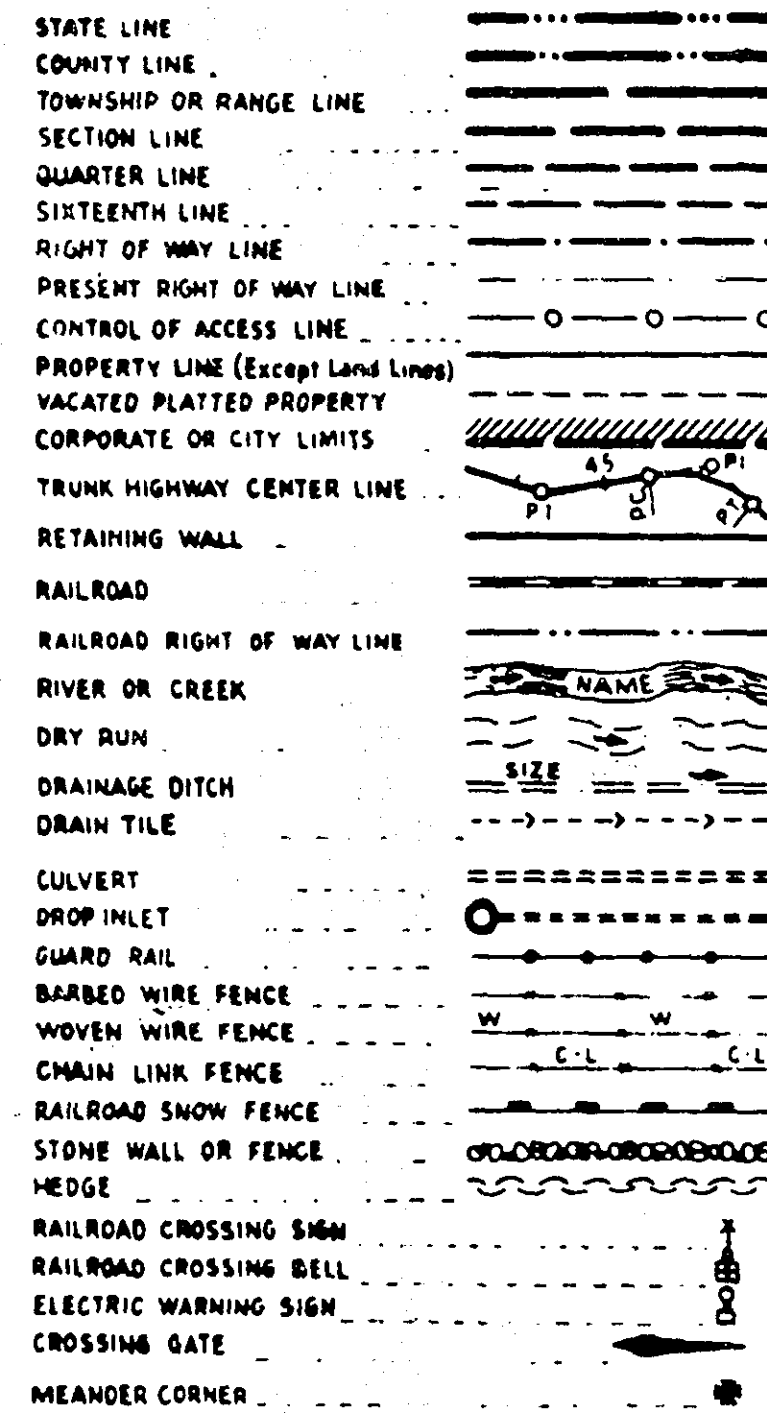
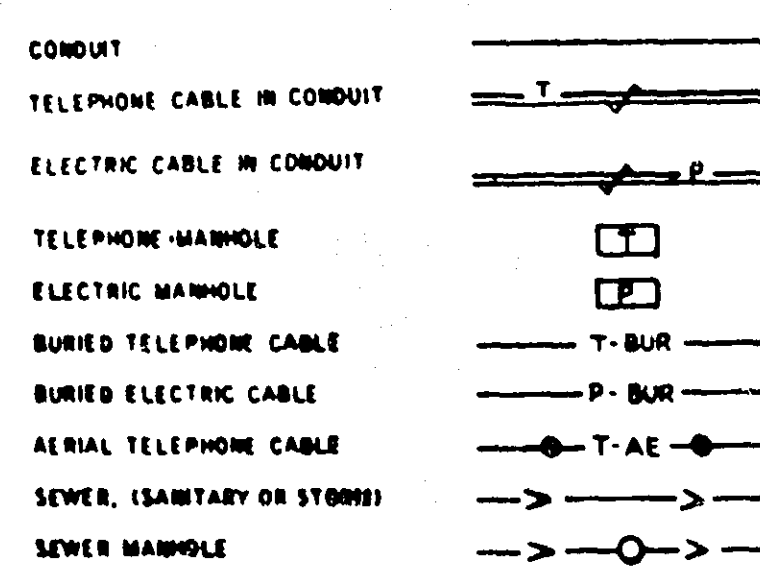
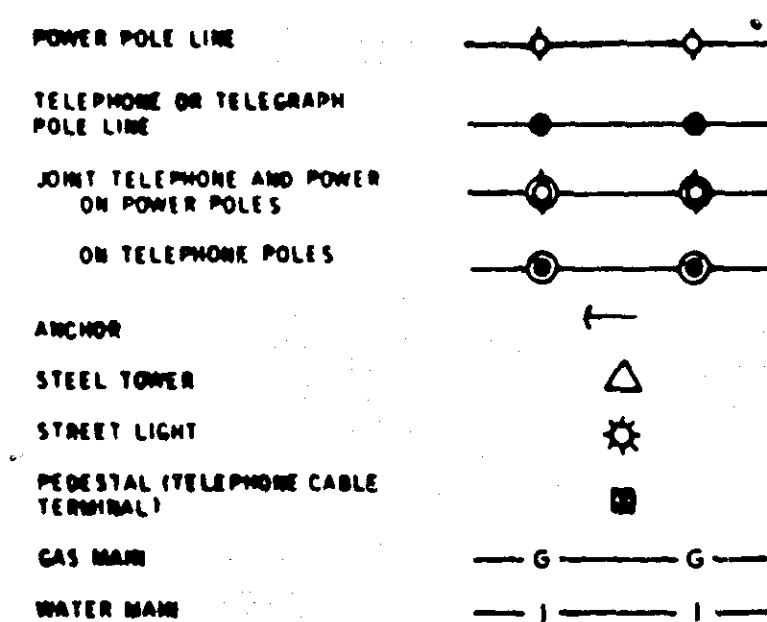


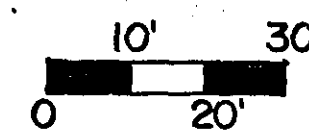
PLANS SYMBOLS



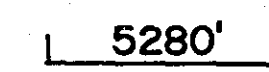
UTILITIES SYMBOLS



PLAN



LAYOUT



GROSS LENGTH 5,839 FEET= 1.11 MILES
 BRIDGES- LENGTH 0 FEET= 0 MILES
 EXCEPTIONS- LENGTH 0 FEET= 0 MILES
 NET LENGTH 5,839 FEET= 1.11 MILES

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS PROSPERITY ROAD BIKEWAY

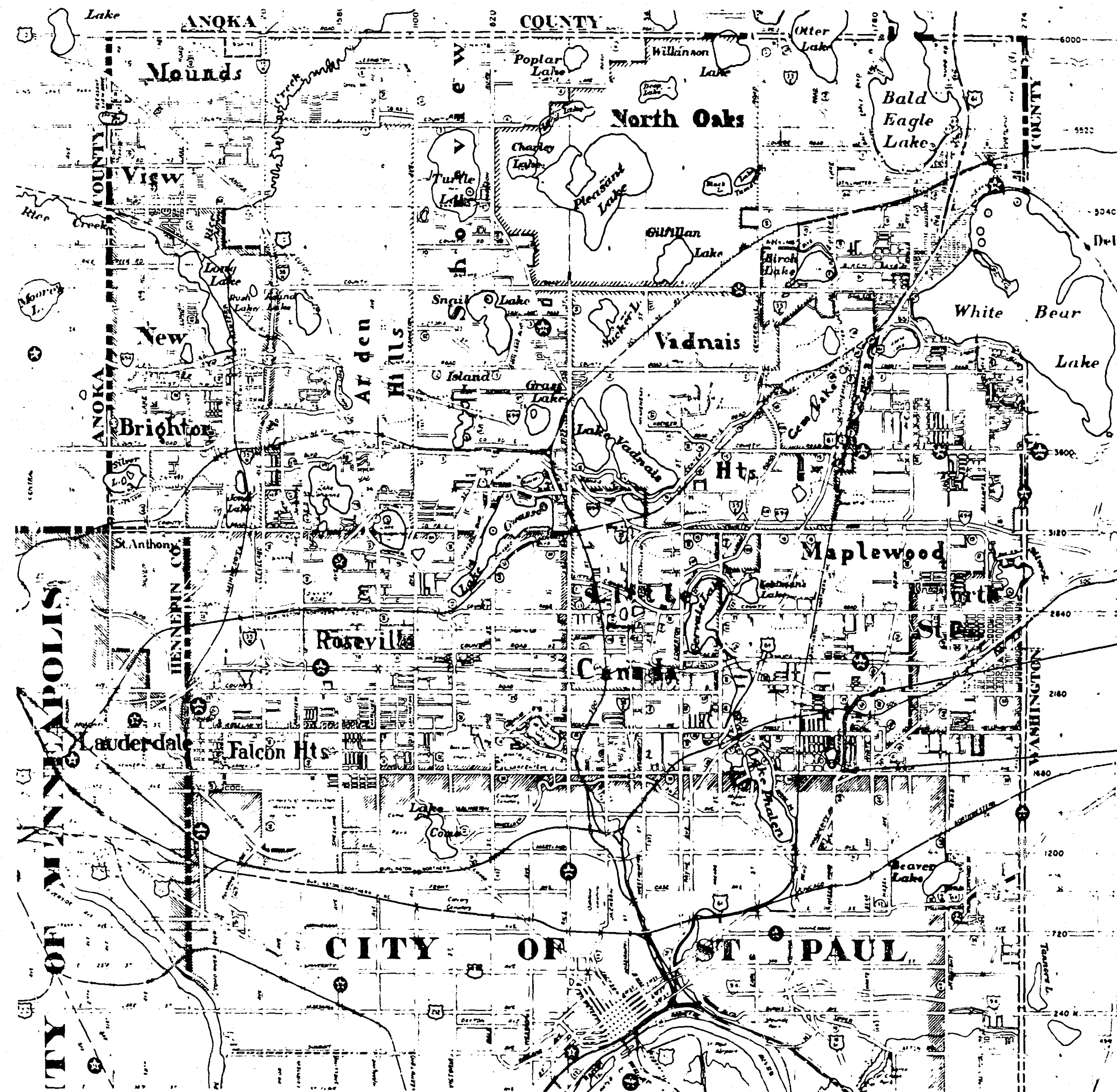
CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY
 BETWEEN: LARPEUR AVE. AND COUNTY ROAD "B"
 S.A.P. NO. 62-664-03

TRAFFIC VOLUME

	LARPEUR AVE. TO FROST AVE.	FROST AVE. TO COUNTY ROAD "B"
A.D.T. 1980	2,100	2,100
A.D.T. 2000	5,500	2,500

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTION
3-6	PLAN SHEETS



END PROJECT
 STA. 58+55

BEGIN PROJECT
 STA. 0+16

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 3-17-81 REG. NO. 13501 ENGR. *Randy Fildes*

RECOMMENDED FOR APPROVAL *PLK* DATE 3-13-81
 TRAFFIC ENGR.

RECOMMENDED FOR APPROVAL *Robert J. O'Neil* DATE 2-27-81
 COUNTY ENGINEER

RECOMMENDED FOR APPROVAL *PLK* DATE 2/27/81
 ENV. ENGR.

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

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

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

RECOMMENDED FOR APPROVAL *DRH* DATE 2/27/81
 CONST. ENGR.

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL *LKF* DATE 3-17-81
 DESIGN ENGR.

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL *JOP* DATE 3-18-81
 P.O. NO. _____

RECOMMENDED FOR APPROVAL *Robert J. O'Neil* DATE 5-28-81

APPROVED *Robert J. O'Neil* DATE 3-13-81
 SUPERVISING ENGR.

RECOMMENDED FOR APPROVAL *Robert J. O'Neil* DATE 5/18/81
 DIST. ENGINEER

APPROVED *Robert J. O'Neil* DATE 5/18/81
 DIRECTOR, OFFICE OF STATE AID

PLAN REVISIONS		
DATE	SHEET NO.	BY
4-24-81	Revise Right Width	S.B.

ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: M.L.
 DATE: 2/16/83

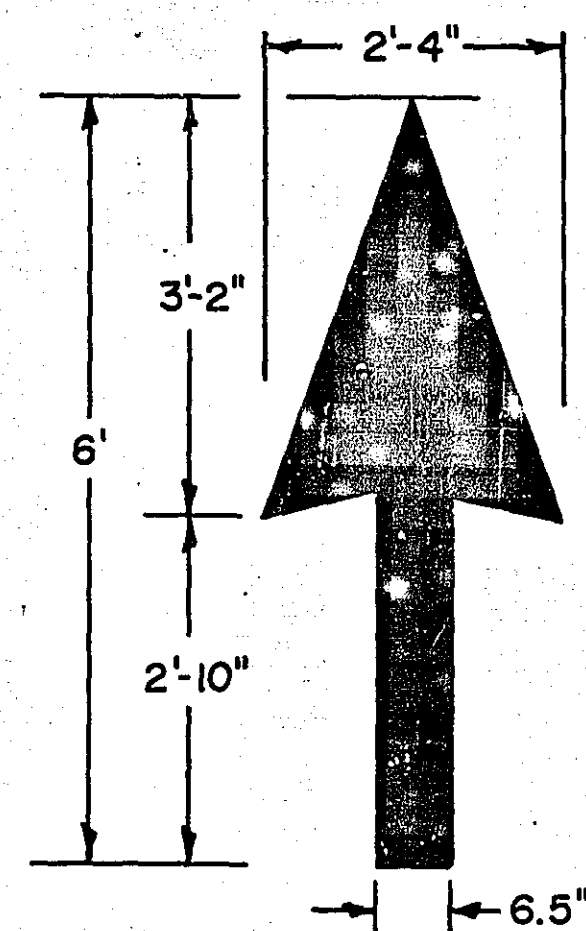
NOTE: SECTION NUMBERS REF. FROM "A" SHEET.

PIT DATA

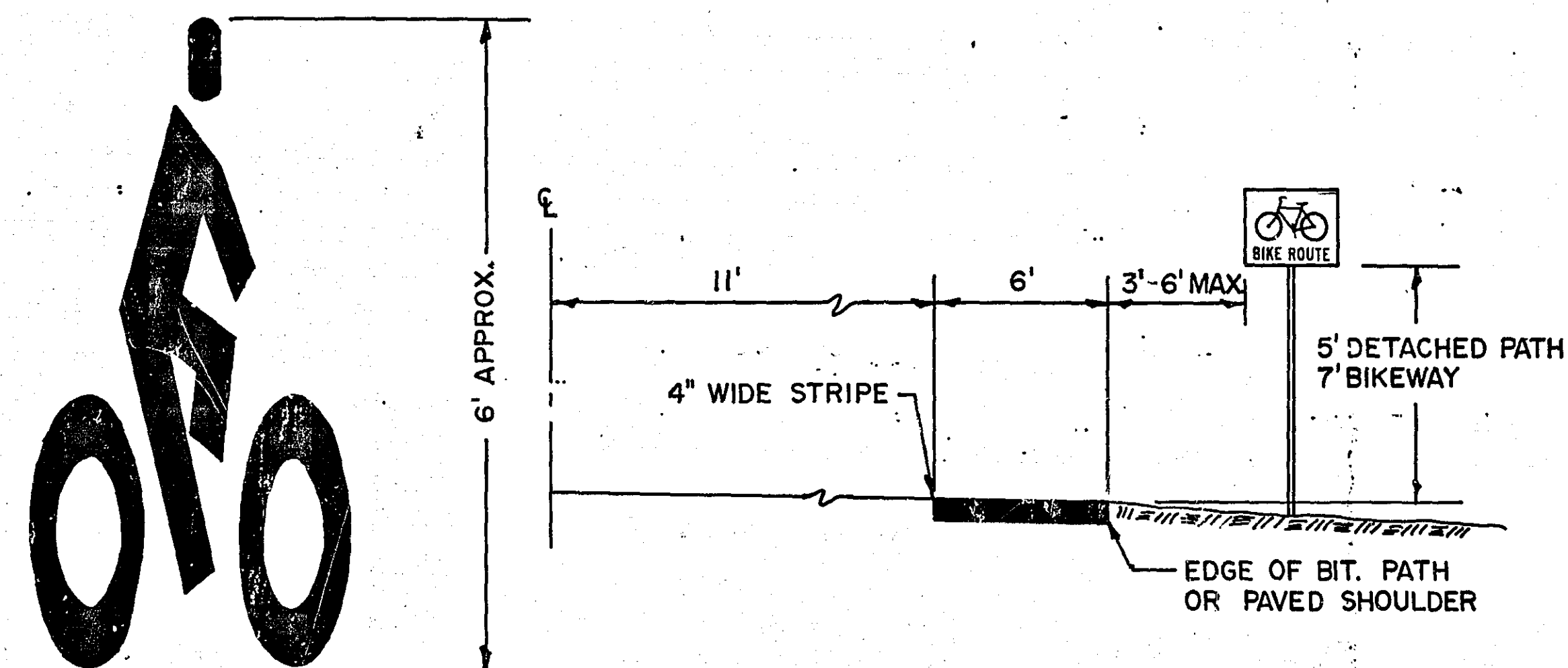
PIT NO. _____	Located in _____
PIT NO. _____	Located in _____

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	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	
2331.518M(1)	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	
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.				



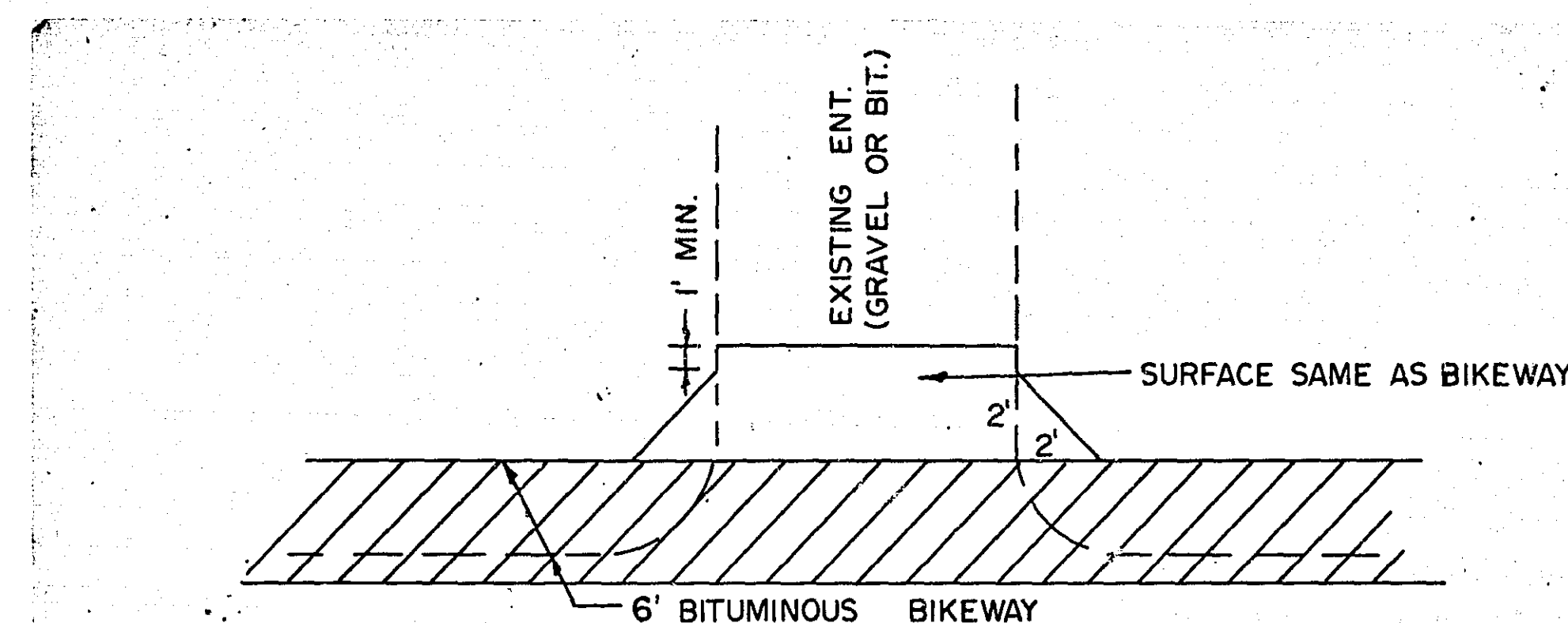
TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



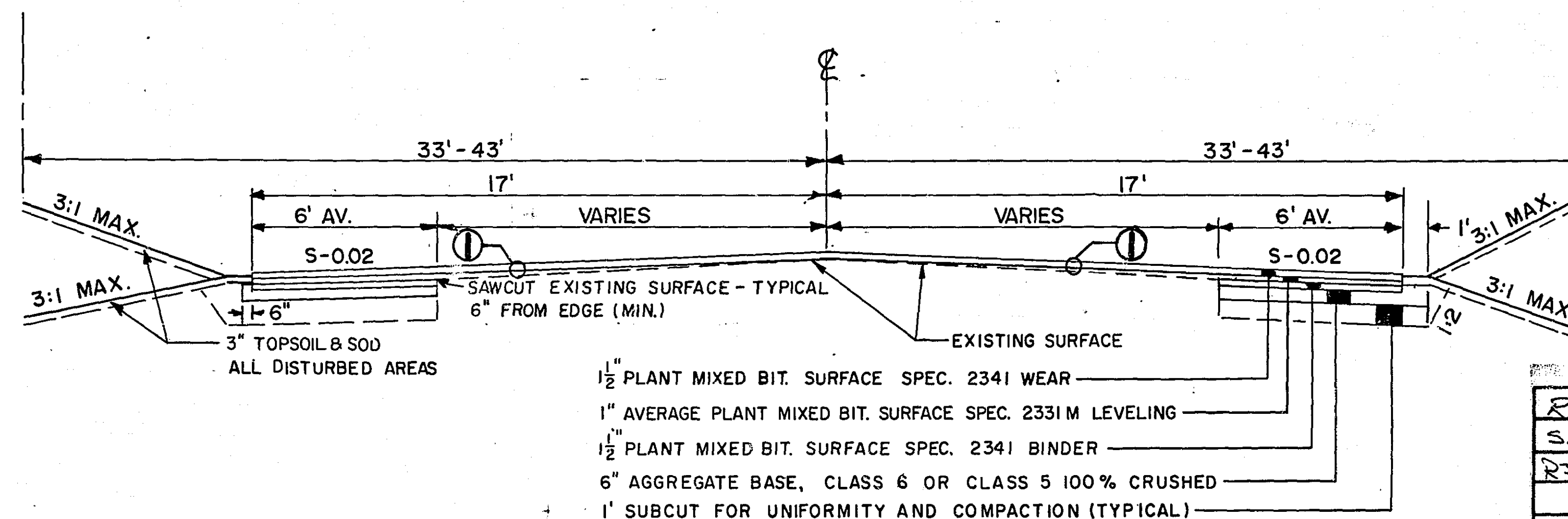
SIGNING AND PAINTING BY OTHERS

* LOCATION TO BE DETERMINED
IN THE FIELD

(I) BITUMINOUS MATERIAL SHALL BE PAID FOR UNDER 2341.504, BITUMINOUS MATERIAL FOR MIXTURE.



TYPICAL ENTRANCE TREATMENT



TYPICAL SECTION

[illegible]

**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: M.L.

DATE: 2/16/83

* (NON-PARTICIPATING---TO BE PAID BY COUNTY FUNDS)

1 1/2" PLANT MIXED BIT. SURFACE SPEC. 2341 WEAR.
VARIABLE THICKNESS LEVELING COURSE MIXTURE;
SPEC 2331M.

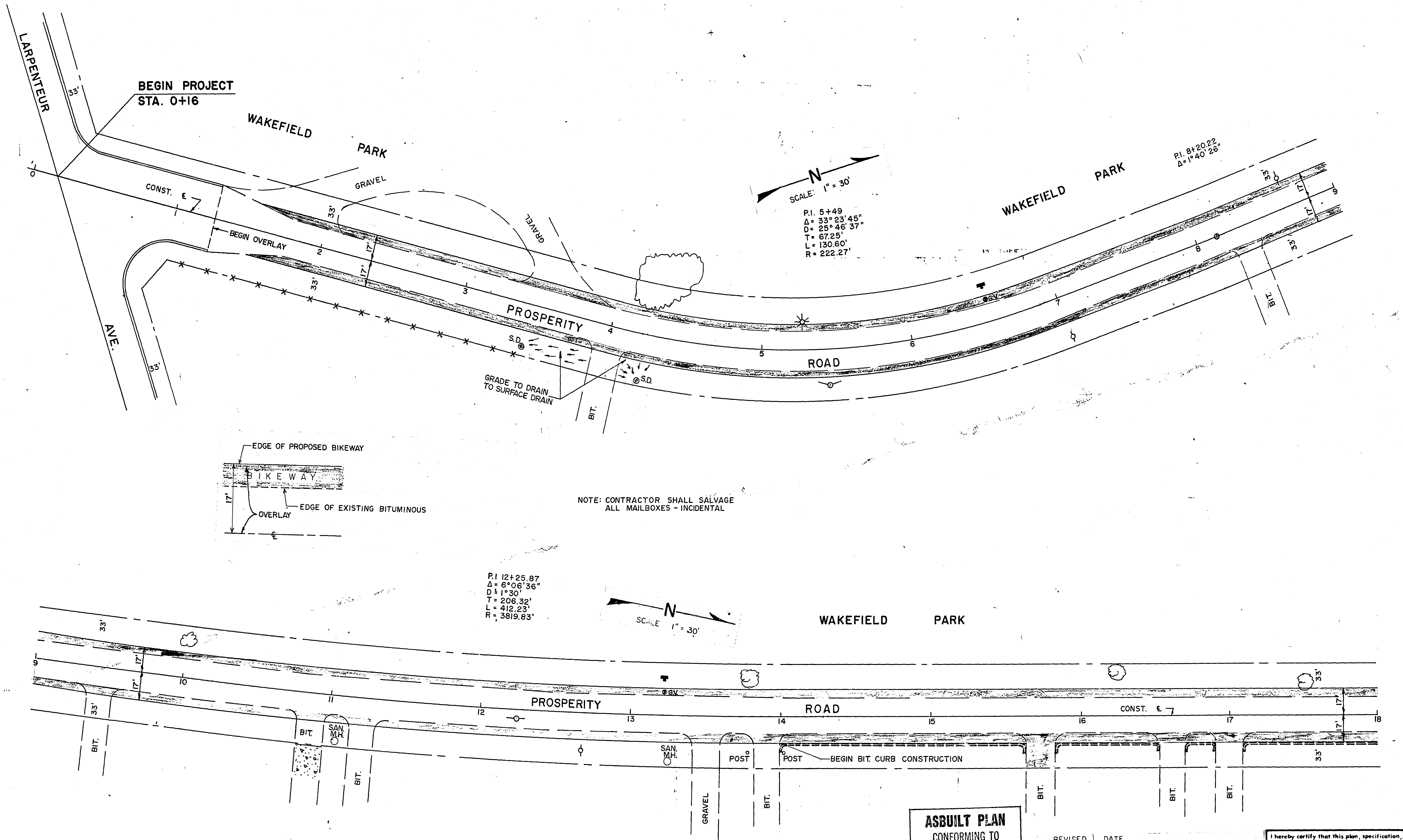
1/2" PLANT MIXED BIT. SURFACE SPEC. 234I WEAR _____
1" AVERAGE PLANT MIXED BIT. SURFACE SPEC. 233IM LEVELING _____
1/2" PLANT MIXED BIT. SURFACE SPEC. 234I BINDER _____
6" AGGREGATE BASE, CLASS 6 OR CLASS 5 100% CRUSHED _____
1" SUBCUT FOR UNIFORMITY AND COMPACTION (TYPICAL) _____

REVISED		DATE	
R ₁₀	Asd. with by	6 May 81	DESIGNED BY
S.S.	THICAL	6 May 81	DRAWN BY
R ₂₀	QUANT.	6 May 81	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.

Danny Feldman

Date 3-19-81 Reg. No. 13501



ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DONE BY: *ML*

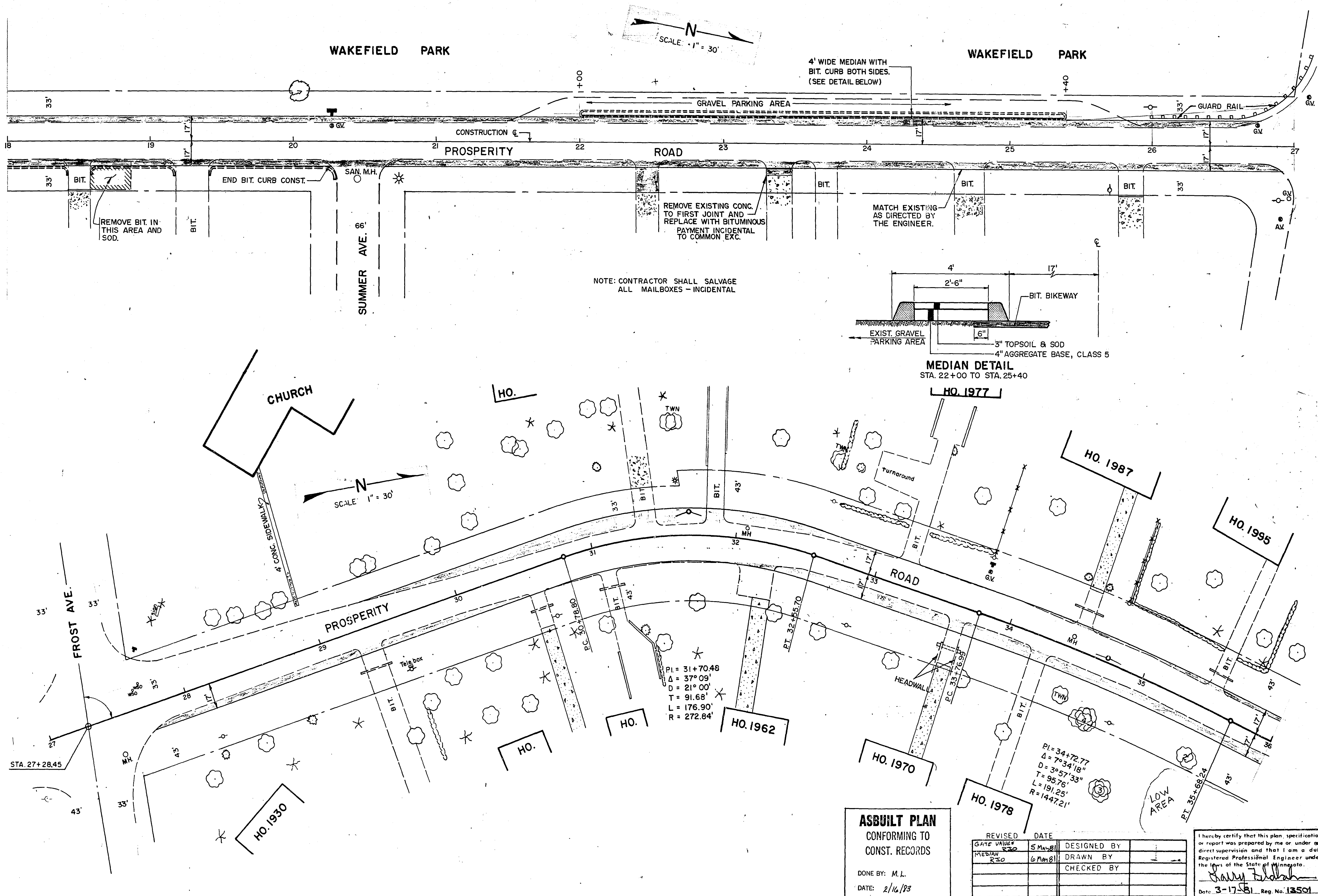
DATE: *2/16/83*

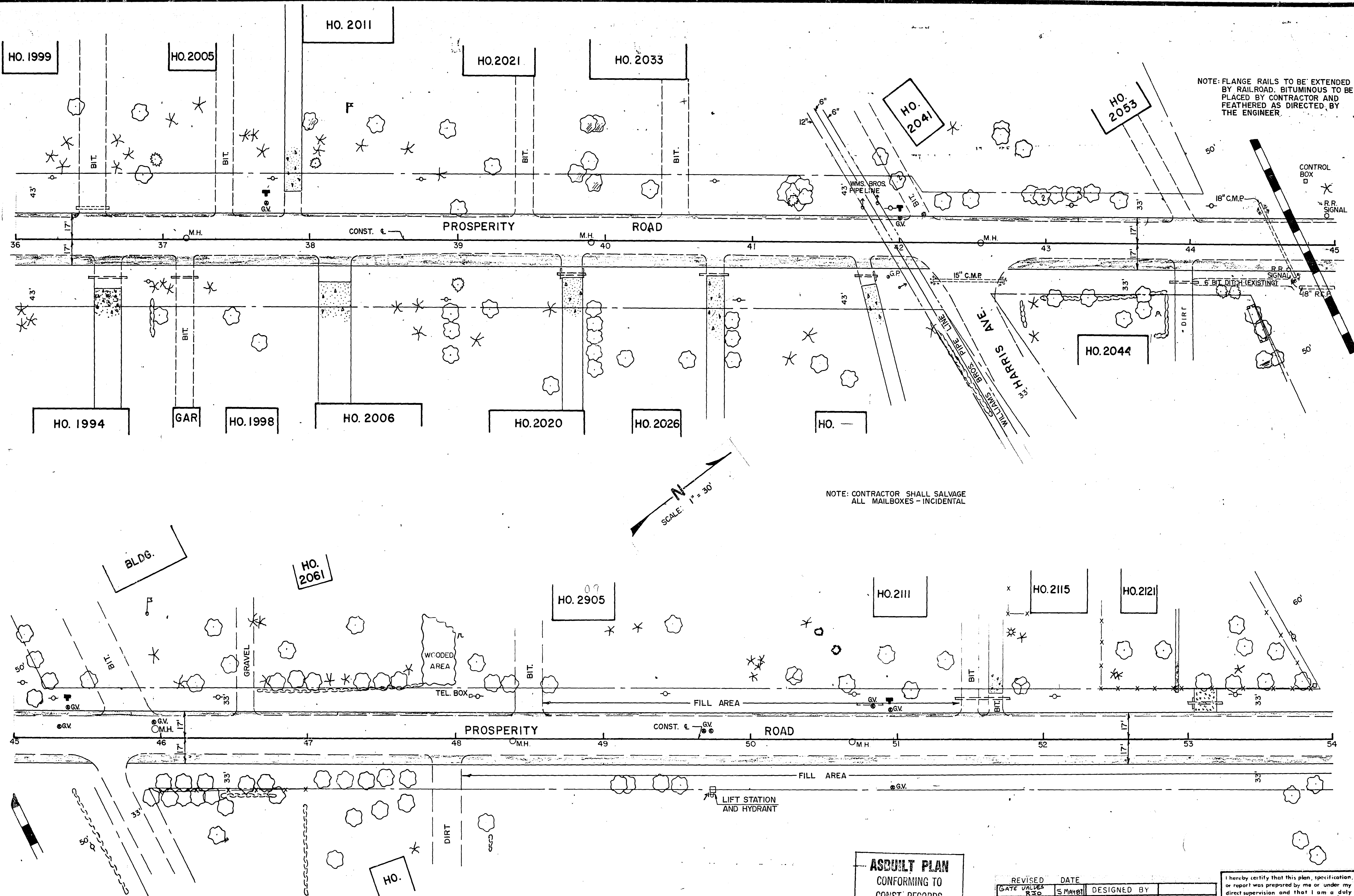
REVISED	DATE	DESIGNED BY
GATE VALVES RSD	5 MAY 81	
		DRAWN BY
		CHECKED BY

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.

Darryl F. Johnson

Date: *3-19-81* Reg. No. *13501*





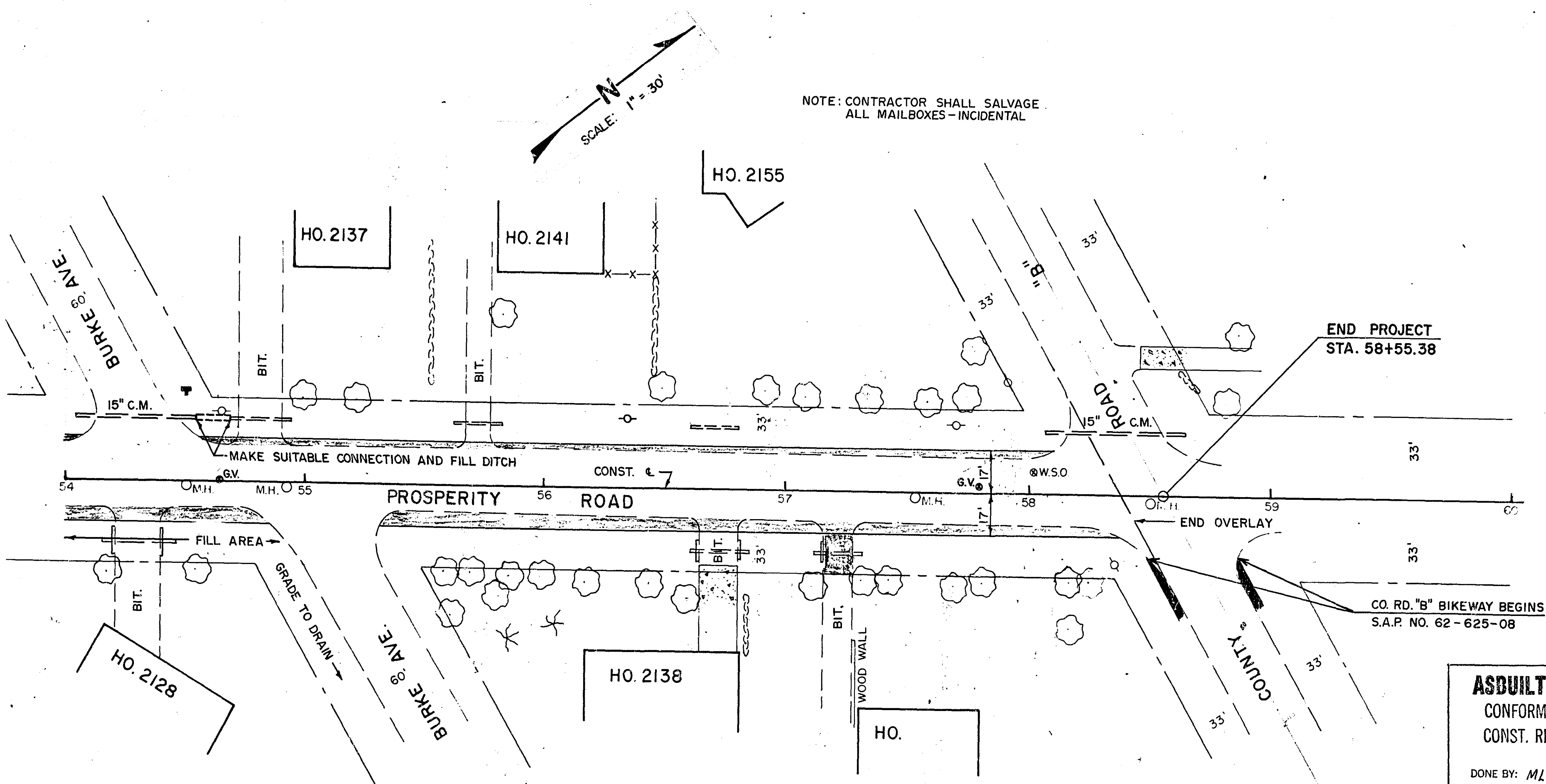
ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS

DONE BY: ML.
 DATE: 2/16/83

REVISED	DATE	DESIGNED BY
GATE VALVES R30	5 MAR 81	
		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 J. Jellison
 Date: 3-17-83 Reg. No. 13591



NOTE: CONTRACTOR SHALL SALVAGE
ALL MAILBOXES - INCIDENTAL

END PROJECT
STA. 58+55.38

CO. RD. "B" BIKEWAY BEGINS
S.A.P. NO. 62-625-08

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *ML*
DATE: *2/16/83*

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
GATE VALVES 2.30	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.

Larry Feldman
Date: *3-17-81* Reg. No. *13501*

R/W

28+50 907.16

R/W

28+00 906.53

R/W

R/W

27+62 906.09
DITCH RT.

27+54 906.17

27+28 906.27
FROST AVE

27+04 906.12

26+77 906.25

Do not
USE
IN PLAN

5' 5'

R/W

R/W

28+50 907.16

28+00 906.53

R/W

R/W

± DITCH RT.
27+62 906.09

27+54 906.17

± FROST AVE

27+28 906.27

27+04 906.12

26+77 906.25

Do Not
USE
IN PLAN

5' 5'

R/W

ENT.

31+39 912.60

R/W

Fed. Proj. No.

31+07 912.04

ENT.

+54 910.57

ENT.

30+00 909.21

+60 908.41

+32 908.04

ENT.

29+00 907.66

R/W

R/W

5' 15'

S.A.P. NO. 62-664-03

Sheet No. 8 of 21 Sheets

26-107

4

R/W

34+00 910.42

R/W

Fed. Proj. No.

+64 910.59

ENT.

ENT.

+20 910.85

33+00 911.13

+50 911.77

32+26 912.27

ENT.

ENT.

31+86 912.69

R/W

R/W

5' 15"

S.A.P. NO. 62-664-03

Sheet No. 9 of 21 Sheets

26-107

R/W

+ 65 909.8

ENT.

R/W

Fed. Proj. No.

ENT.

+53 909.8

ENT.

36+00 909.77

+50 909.76

ENT.

35+00 909.96

+50 910.27

34+26 910.33

ENT.

R/W

R/W

5' 5"

S.A.P. NO. 62-664-03

Sheet No. 10 of 21 Sheets

26-107

R/W

+89 908.92

R/W

+50 909.18

38+15 909.48

ENT.

ENT.

+87 909.73

ENT.

+42 909.94

+16 909.86

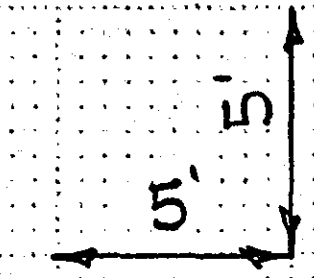
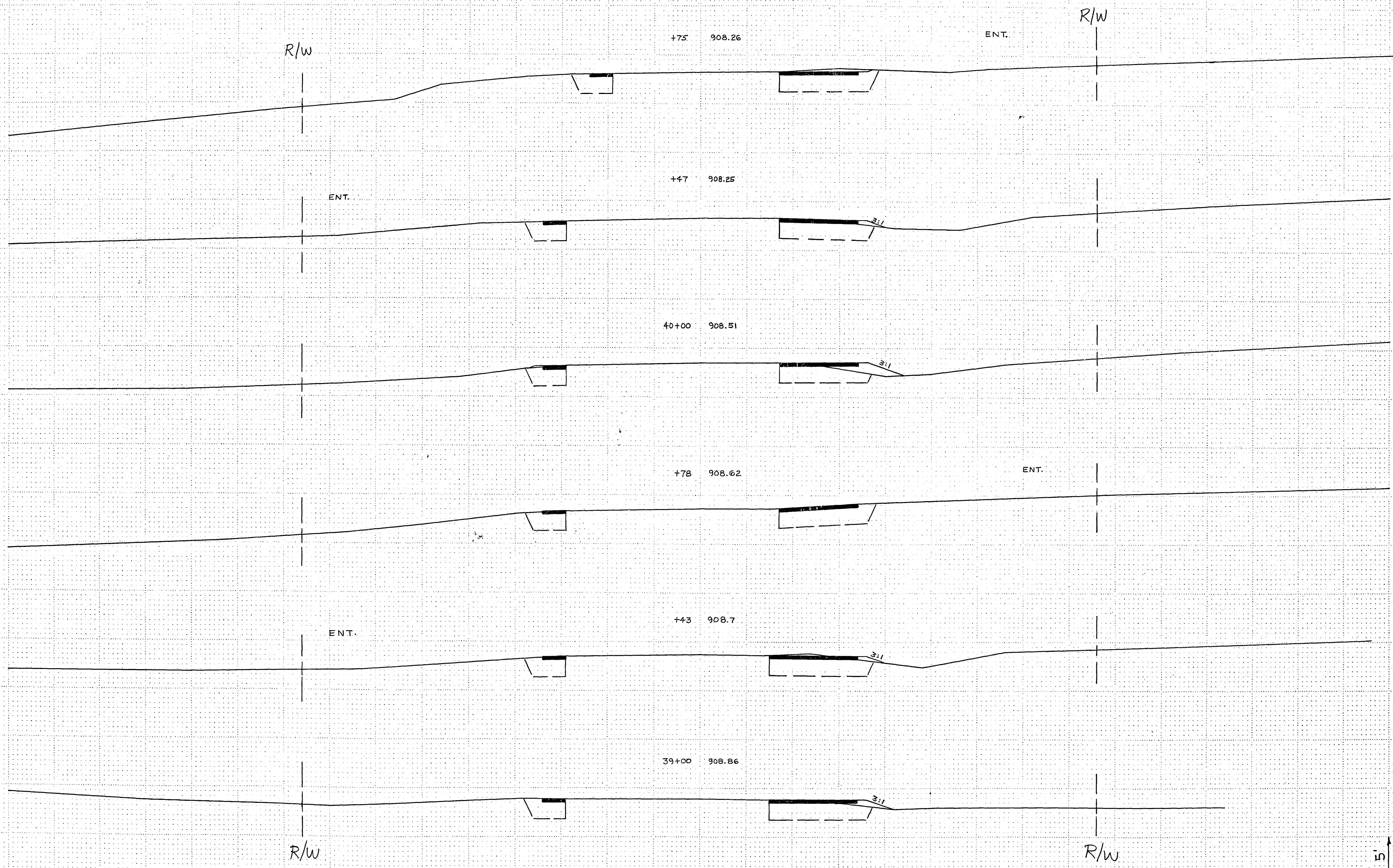
ENT.

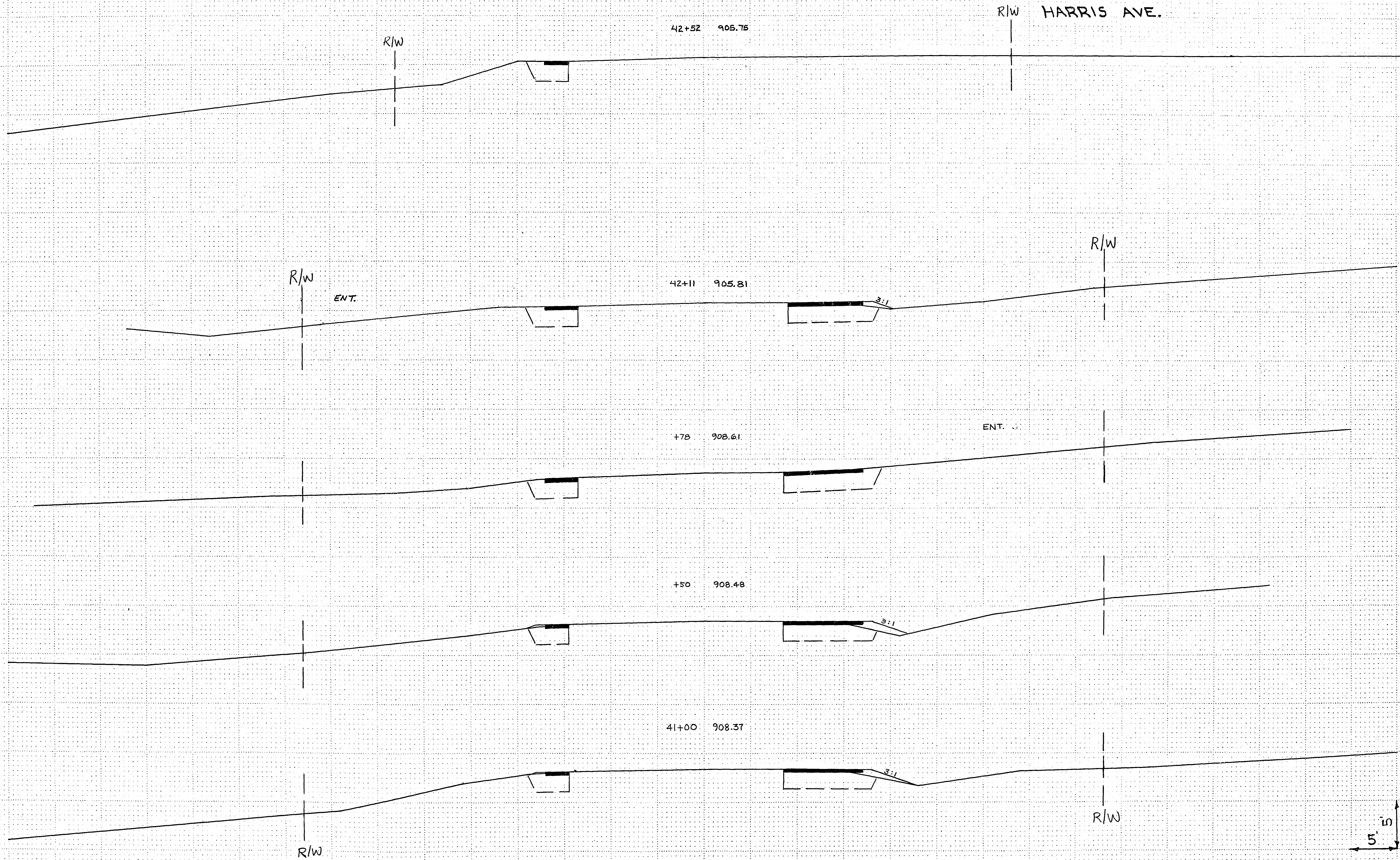
37+00 909.9

R/W

R/W

5' in





44+85 909.41

TOP NORTH RAIL

44+79 909.36

TOP SOUTH RAIL

44+50 908.79

E DITCH

E DITCH

R/W
ENT.

+96 908.09

R/W
ENT.

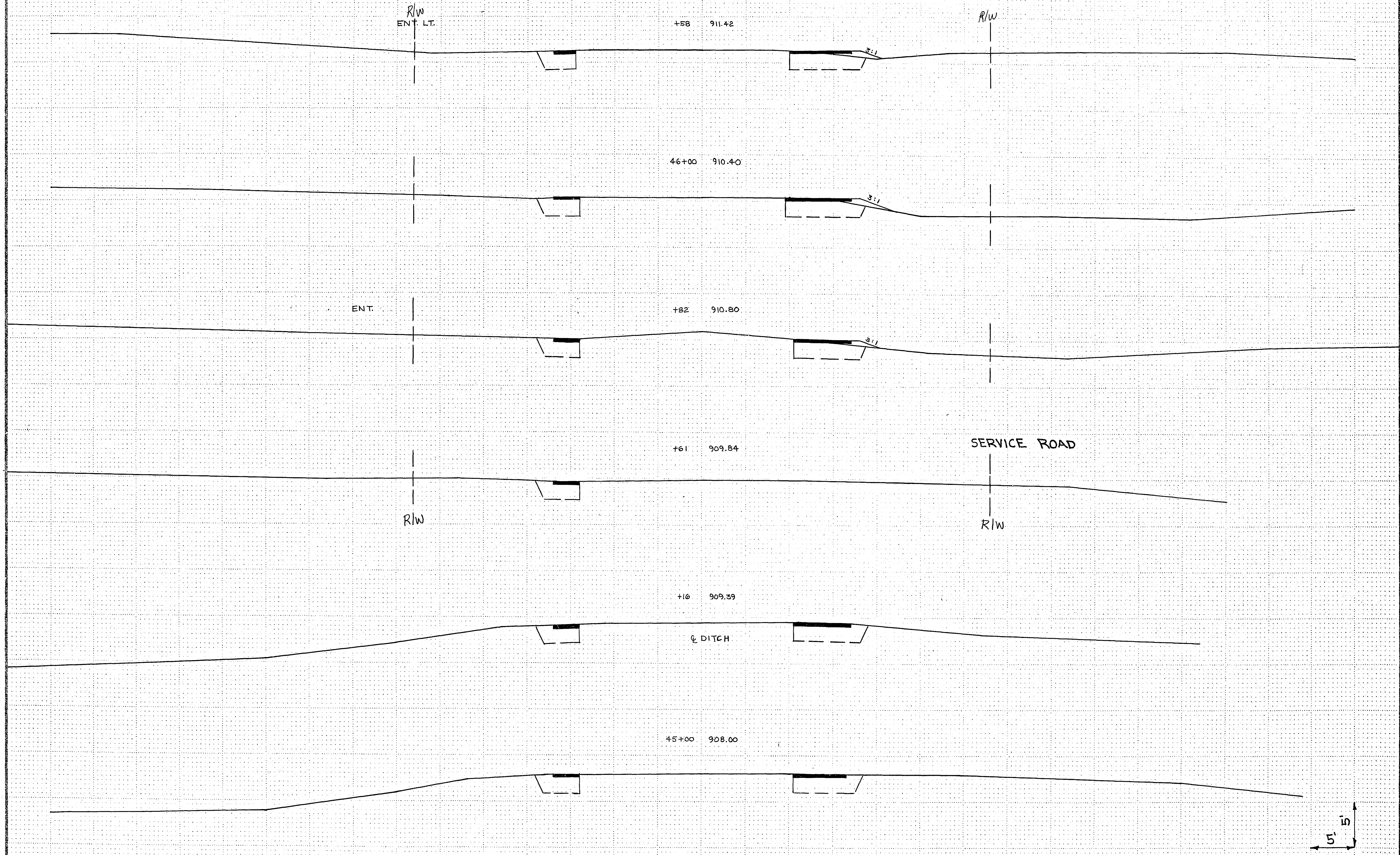
+50 908.09

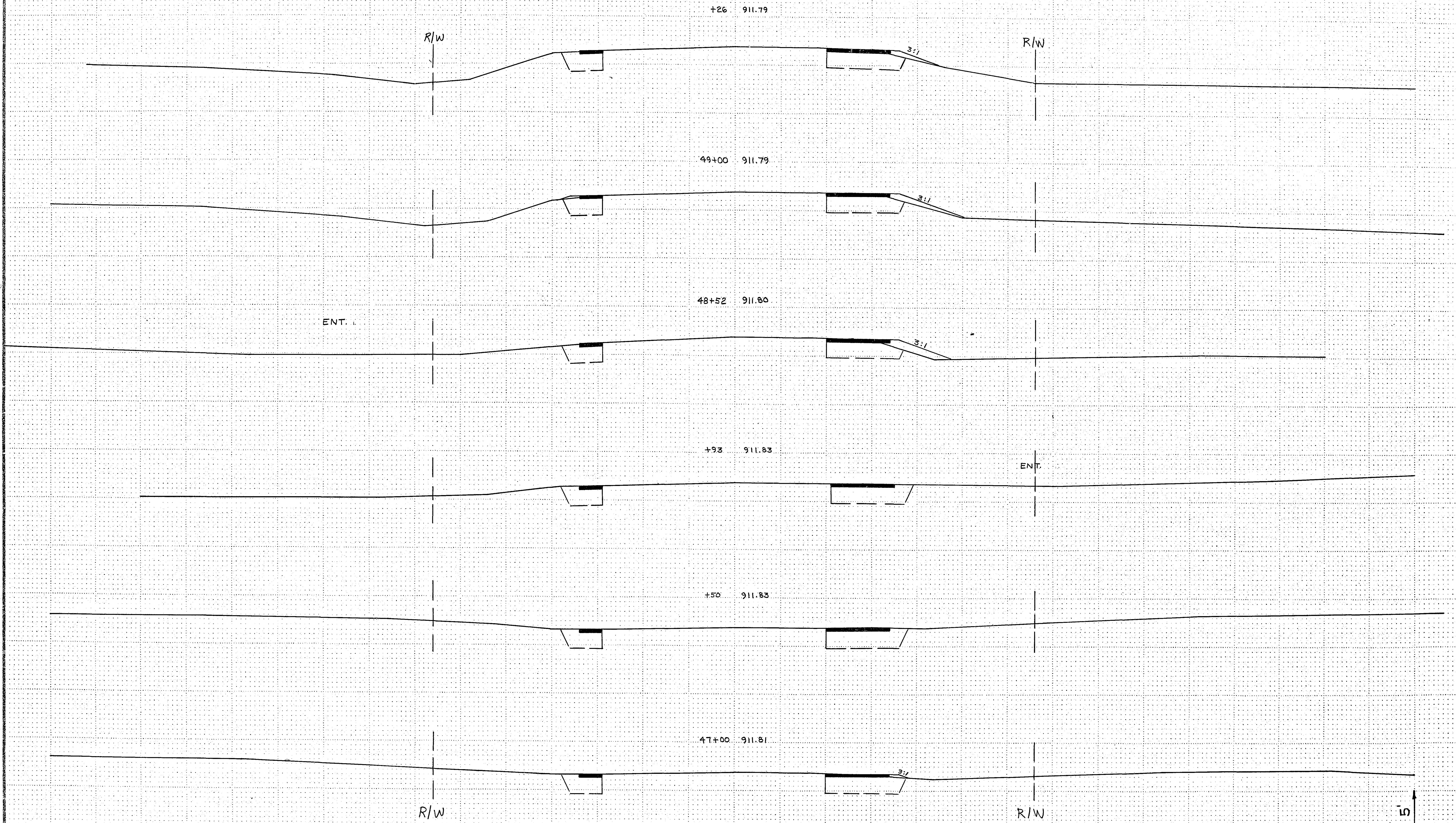
43+00 907.85

R/W

R/W

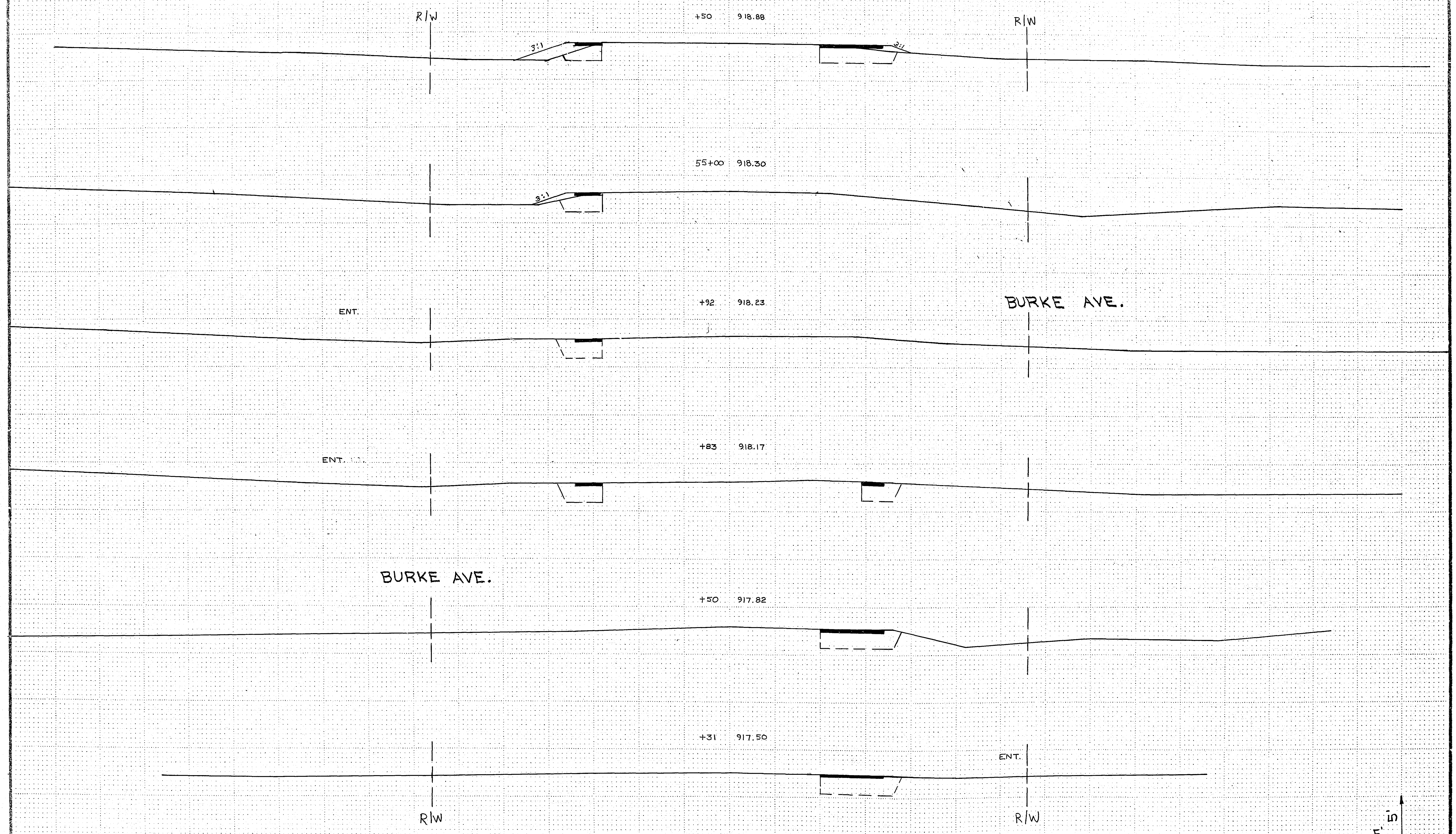
5' in

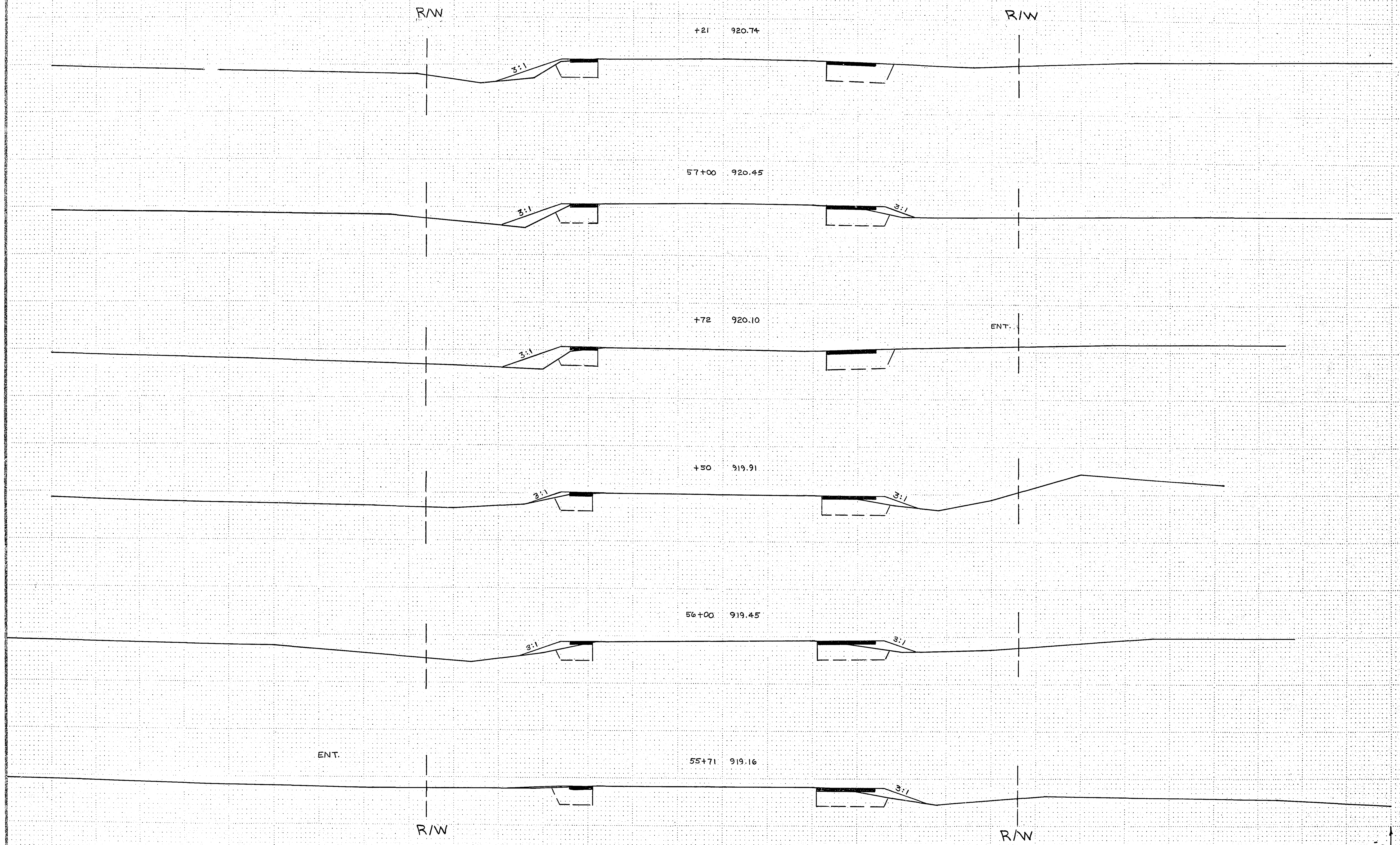












59+00 922.35

CO. RD. "B"

+55 922.01

R/W

58+00 921.73

R/W

57+53 921.06

R/W

R/W

5' in