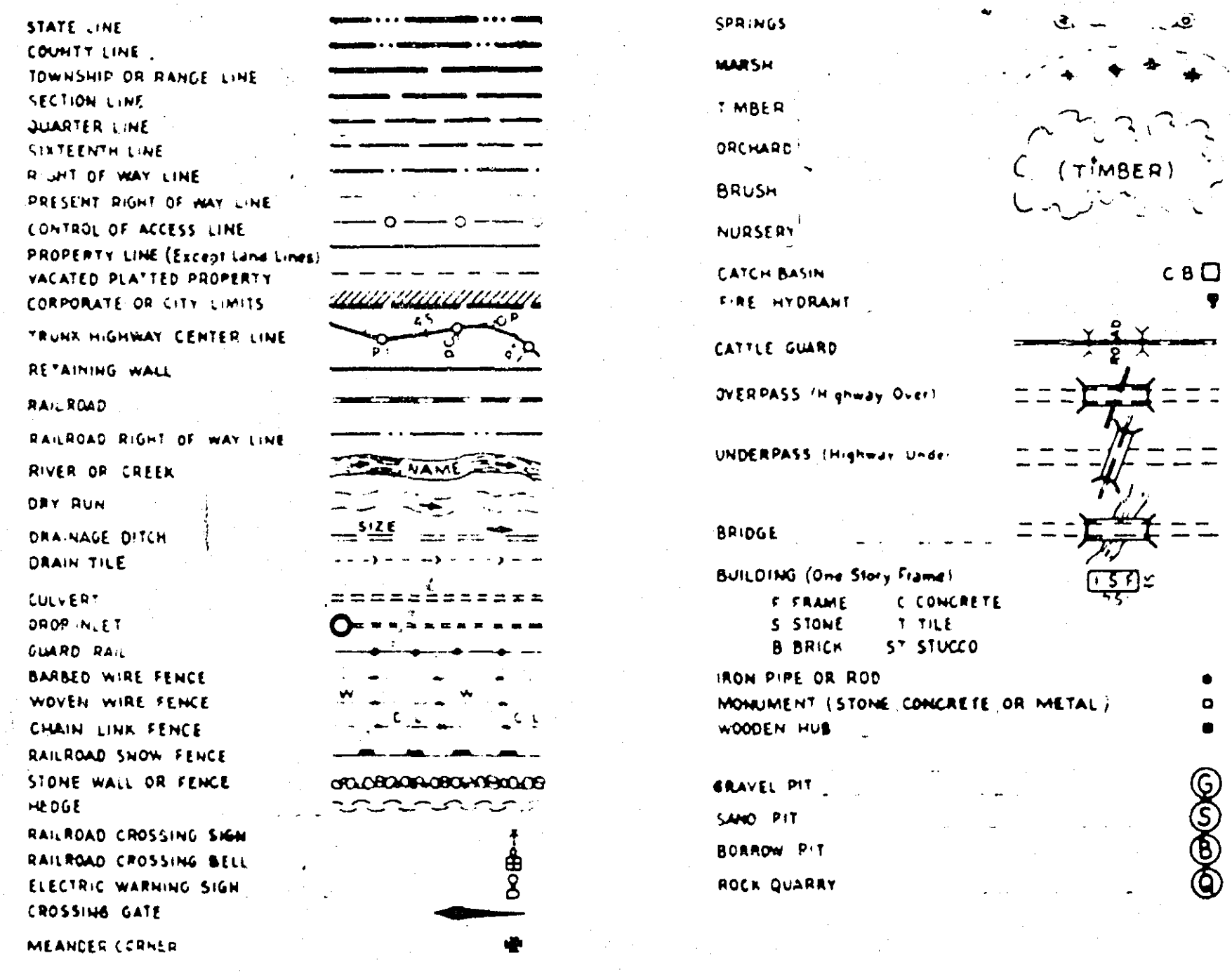
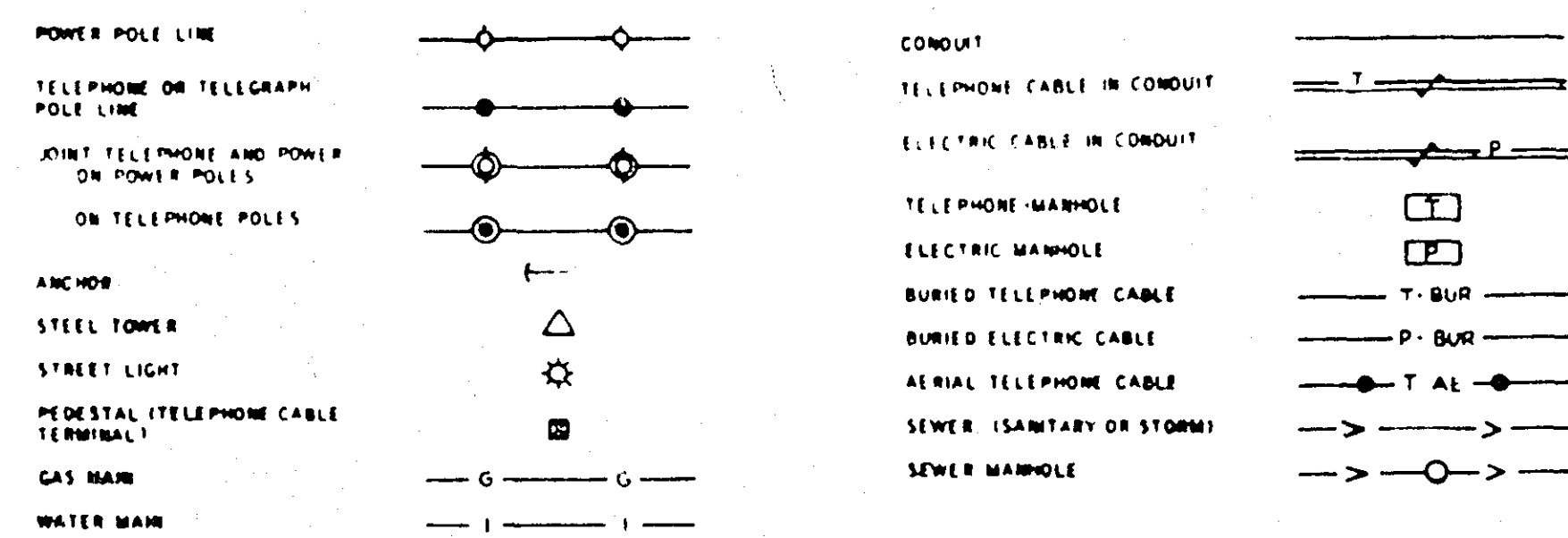


PLANS SYMBOLS



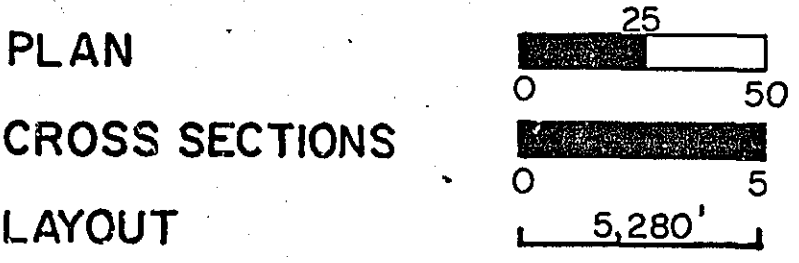
UTILITIES SYMBOLS



PIT DATA

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

GROSS LENGTH 8700 FEET = 1.648 MILES
BRIDGES-LENGTH FEET = MILES
EXCEPTIONS-LENGTH FEET = MILES
NET LENGTH 8700 FEET = 1.648 MILES



OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY

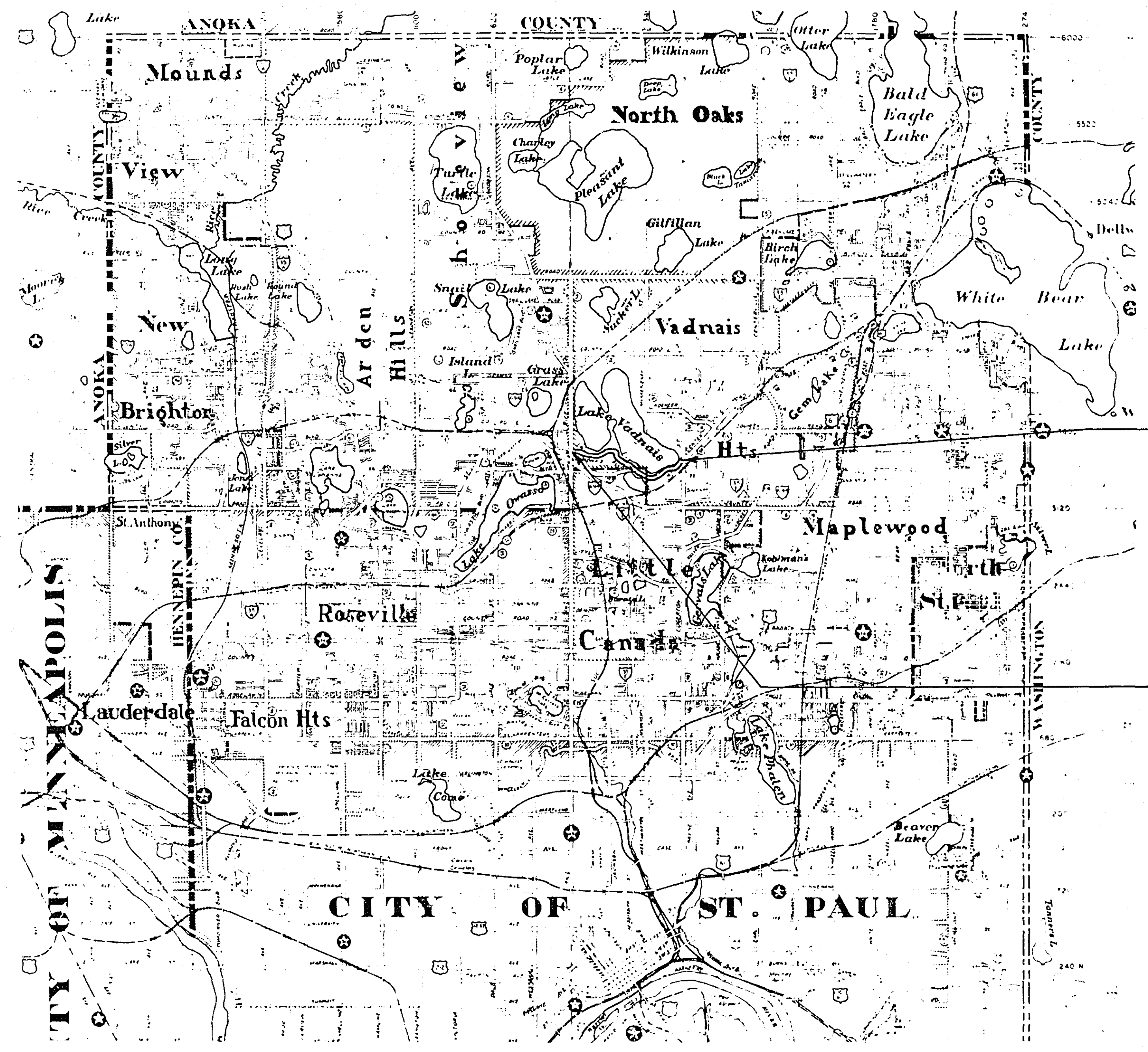
VADNAIS BLVD. BIKEWAY
CONSTRUCTION PLAN FOR: BITUMINOUS BIKEWAY
BETWEEN: RICE ST. AND EDGERTON ST.

TRAFFIC VOLUMES

Rice St. to Mayfair Rd. 2275 ADT 1977
Mayfair Rd. to Edgerton St. 1475 ADT 1977

INDEX

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



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.
Paul J. Schmidt
Date 7-18-78 Reg. No. 12703

RECOMMENDED FOR APPROVAL *PLK* DATE 7-18-78
TRAFFIC ENGR
RECOMMENDED FOR APPROVAL *OSB* DATE 7-18-78
ENV. ENGR
RECOMMENDED FOR APPROVAL *MCX* DATE 7-18-78
MAINT. ENGR
RECOMMENDED FOR APPROVAL *QAP* DATE 7-18-78
CONST. ENGR
RECOMMENDED FOR APPROVAL *LKE* DATE 7-18-78
DESIGN ENGR
RECOMMENDED FOR APPROVAL *QAP* DATE 7-18-78
TRAFFIC ENGR
APPROVED *Wm. J. Schmidt* DATE 7-18-78
COORDINATING ENGR
RECOMMENDED FOR APPROVAL *Delbert D. Gledhill* DATE 10-20-78
MINNESOTA STATE HIGHWAY DEPARTMENT
RECOMMENDED FOR APPROVAL *Delbert D. Gledhill* DATE 10-20-78
DISTRICT STATE AID ENGINEER
RECOMMENDED FOR APPROVAL *Delbert D. Gledhill* DATE 10-23-78
STATE AID ENGINEER

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *SCB*
DATE: 1/26/82

REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY

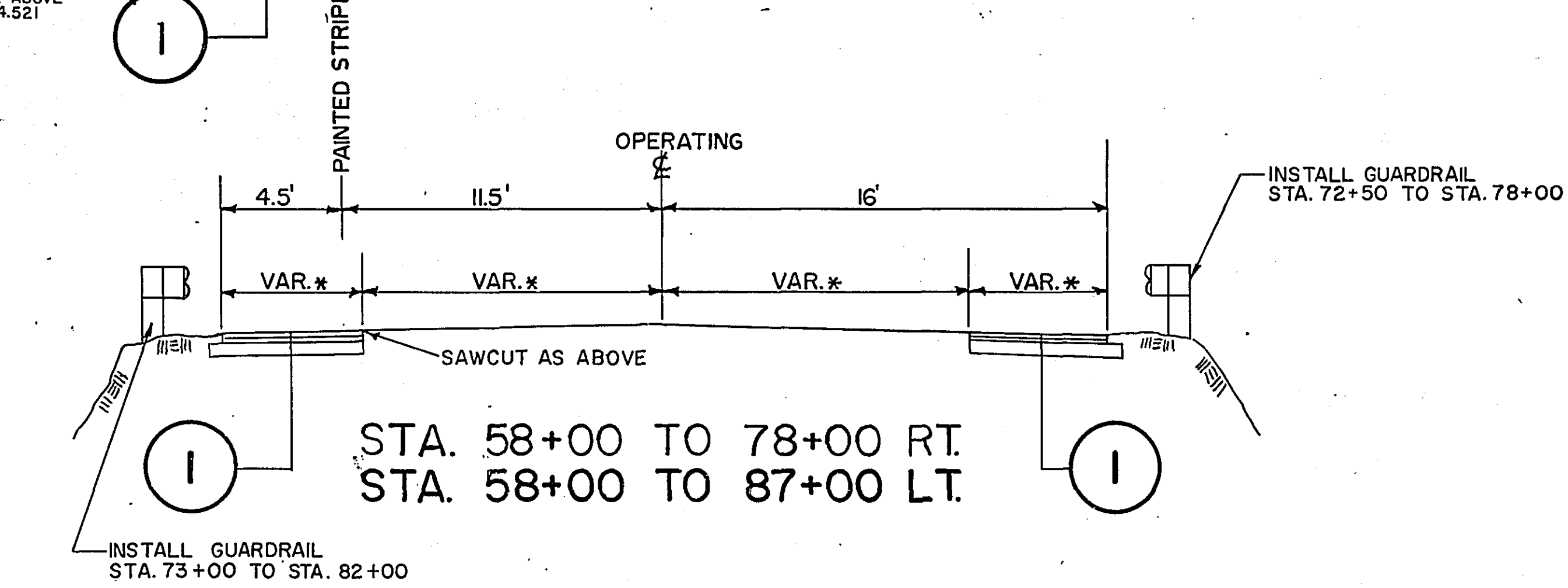
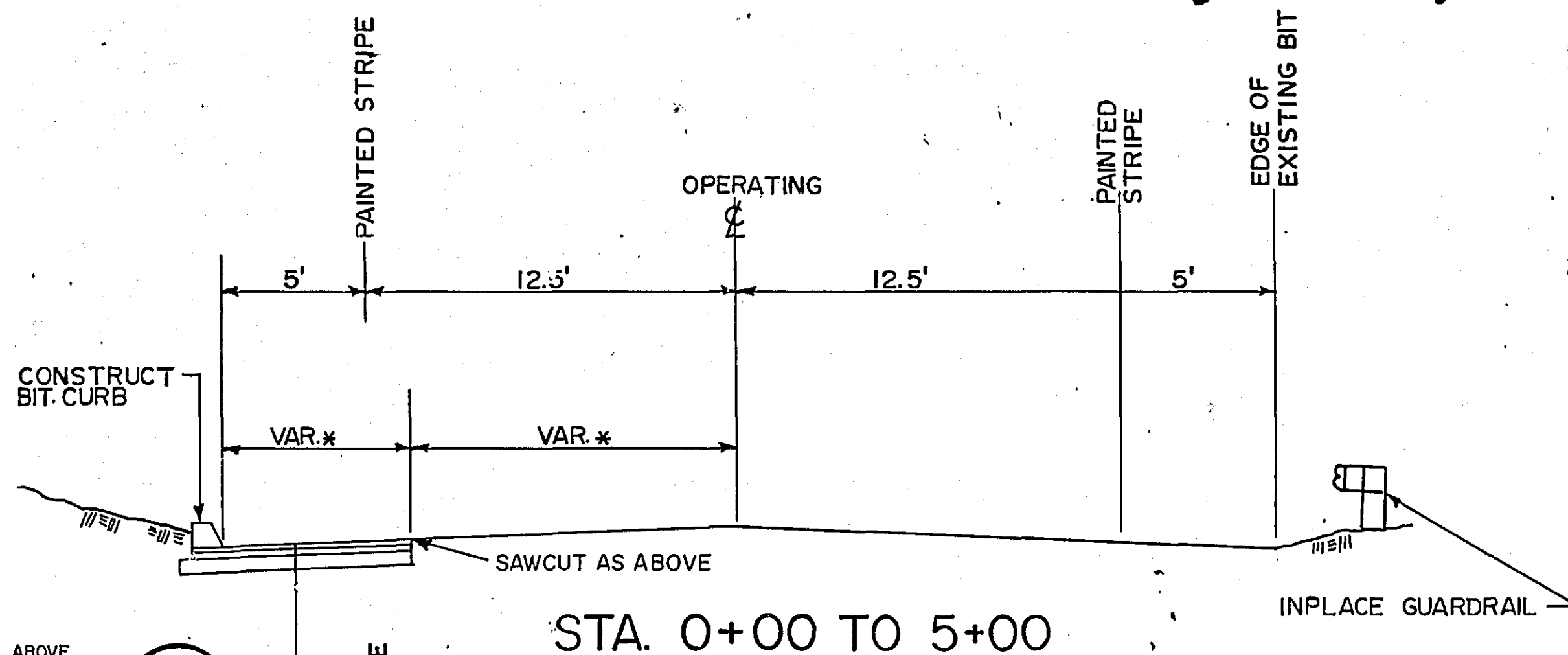
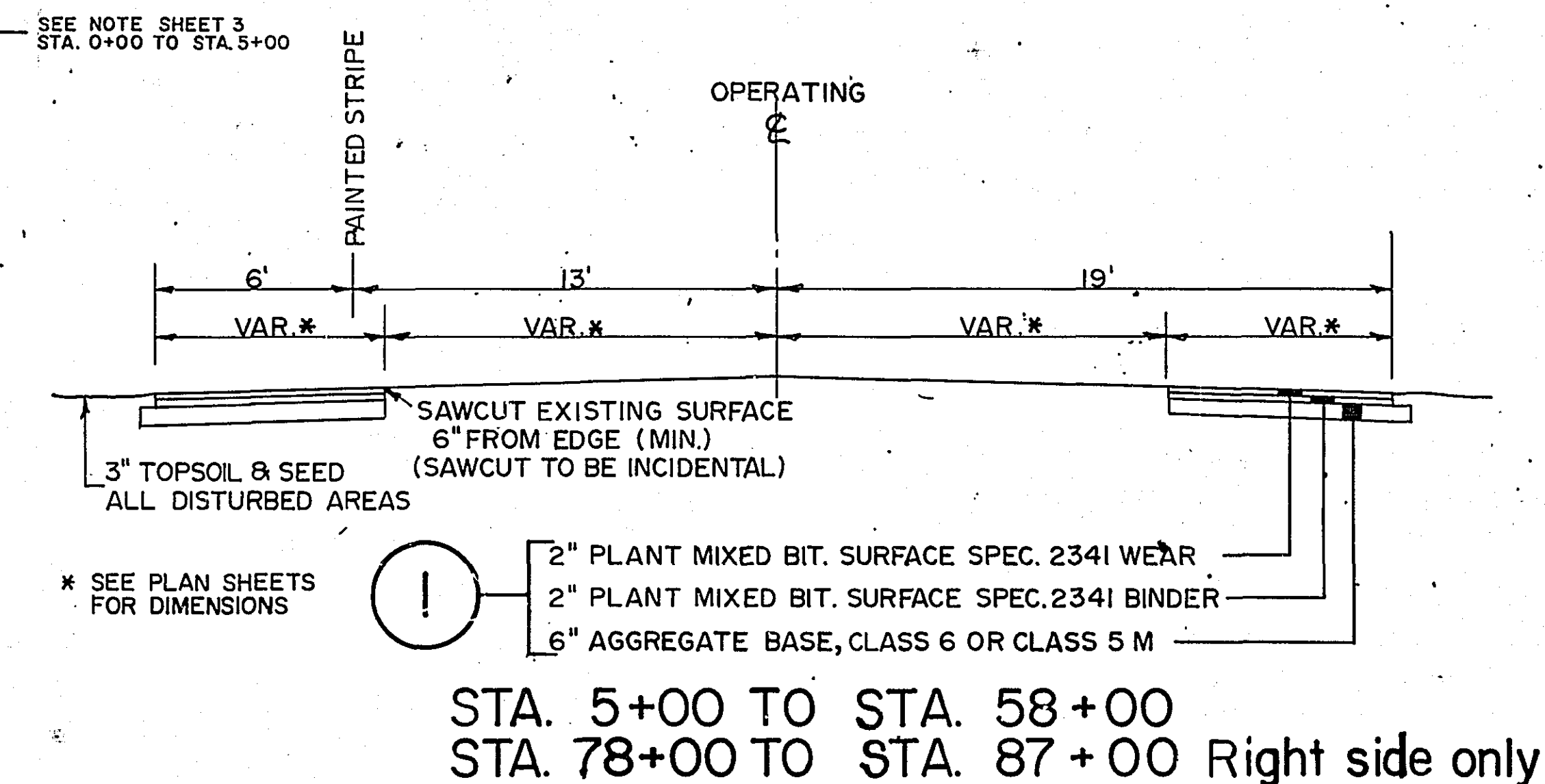
S.A.P. NO. 62-616-01

Sheet No. 1 of 7 Sheets

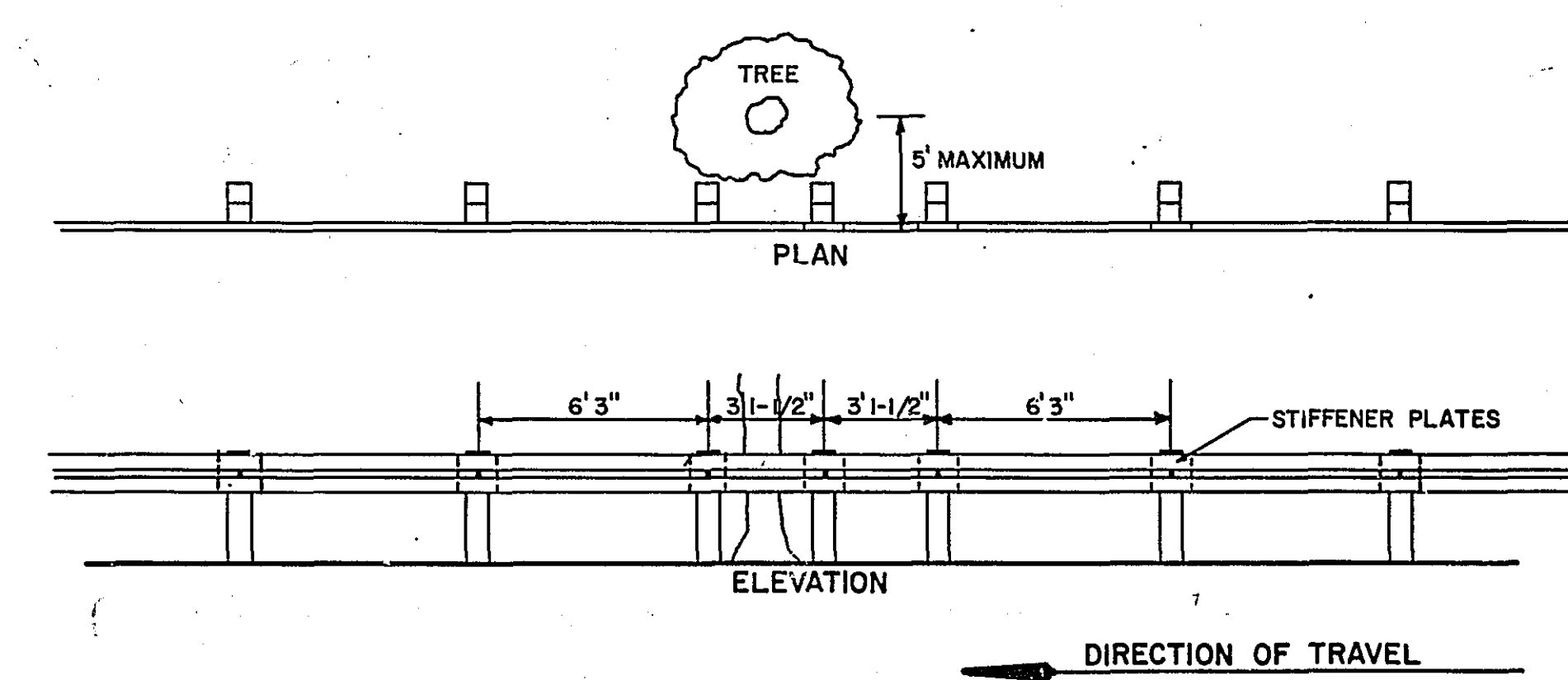
THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2104.521	SALVAGE FENCE	L.F.	420	
2104.521	SALVAGE GUARD RAIL	L.F.	350	
2105.501	COMMON EXCAVATION	C.Y.	2150	
2105.523	COMMON BORROW	C.Y.	0	
2105.525	TOPSOIL BORROW	C.Y.	800	
2211.501	AGGREGATE BASE, CLASS 6 OR 5M	TON	4200	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	106	
2341.508	WEARING COURSE MIX. FOR BIKEWAY	TON	960	
2341.510	BINDER COURSE MIX. FOR BIKEWAY	TON	960	
2357.502	BIT. MATERIAL FOR TACK COAT	GAL.	190	
2358.501	BIT. MATERIAL FOR PRIME COAT	GAL.	115	
2535.501	BITUMINOUS CURB	L.F.	690	
2554.501	TRAFFIC BARRIER, BREAKAWAY CABLE TERMINAL (BCT)	EACH	4	
2554.501	TRAFFIC BARRIER, DESIGN B	L.F.	1040	
2554.501	TRAFFIC BARRIER, DESIGN TWISTED END	EACH	6	
2554.511	INSTALL GUARD RAIL	L.F.	350	
2575.501	ROADSIDE SEEDING	ACRE	2	
2575.502	SEED, MIXTURE 6	POUND	150	
2575.531	COMMERCIAL FERTILIZER ANALYSIS 12-12-12	TON	0.35	
557.604	INSTALL FENCE	L.F.	420	
563.640	F&I. TRAFFIC SIGN (D11-1)	SIGN	17	
569.602	4" WIDE WHITE EDGE LINE	L.F.	17400	
569.614	PAVEMENT MESSAGE (BICYCLE SYMBOLS)	EACH	20	

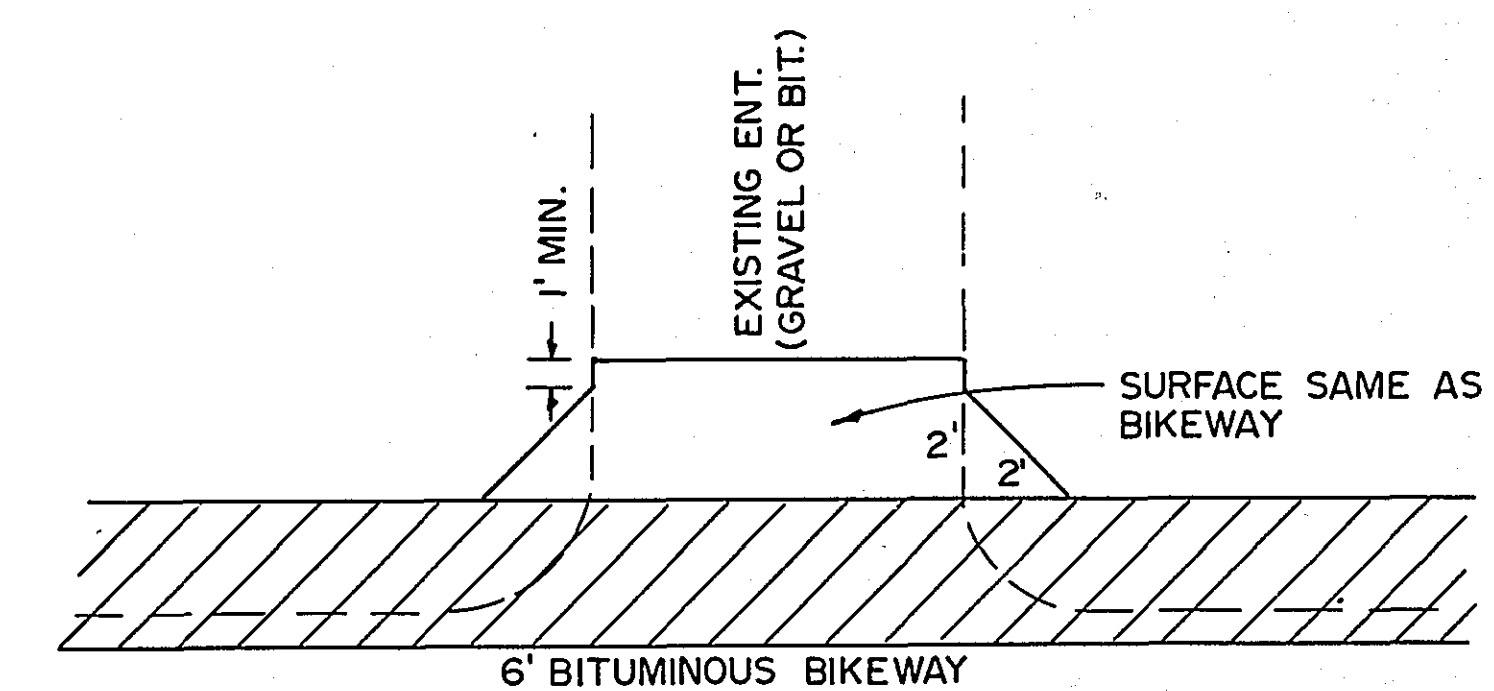
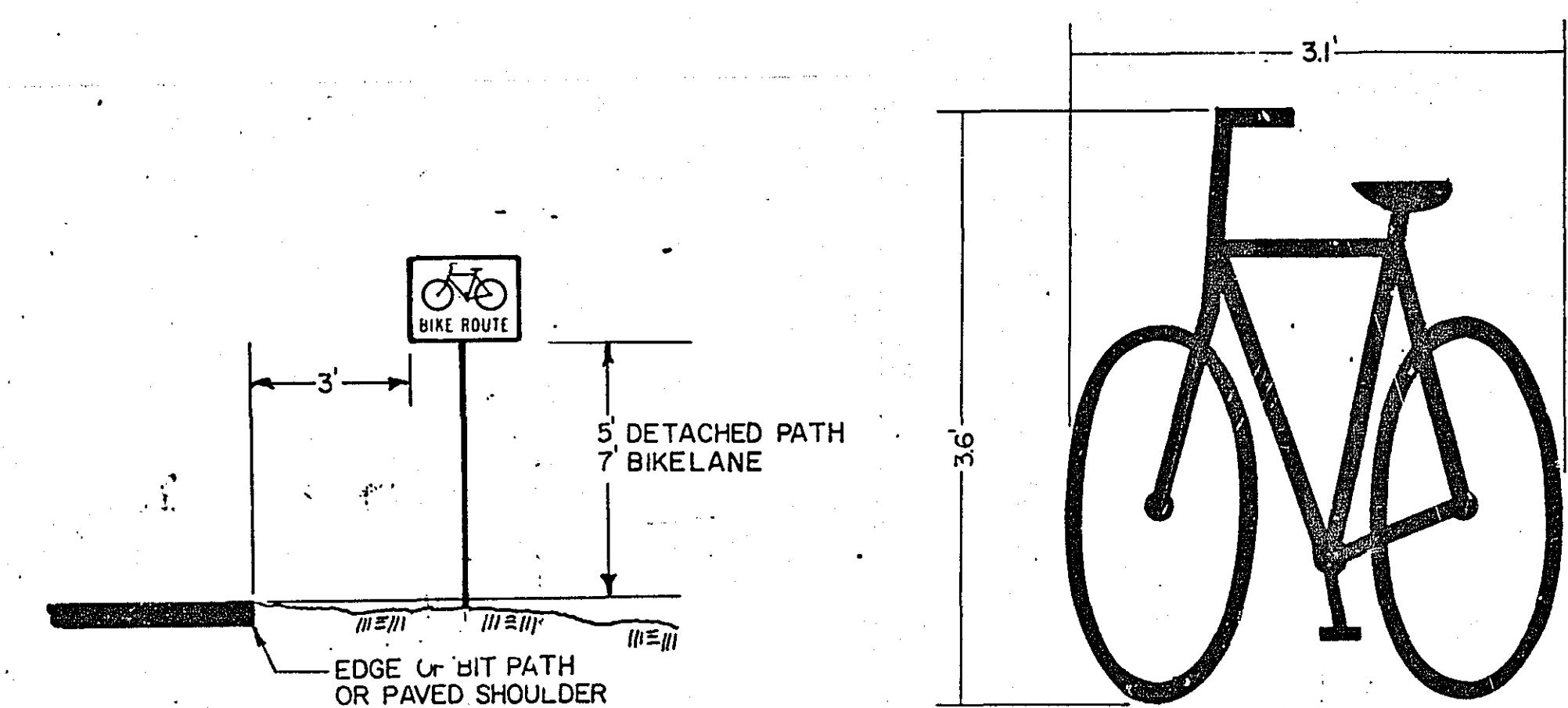
TYPICAL SECTIONS



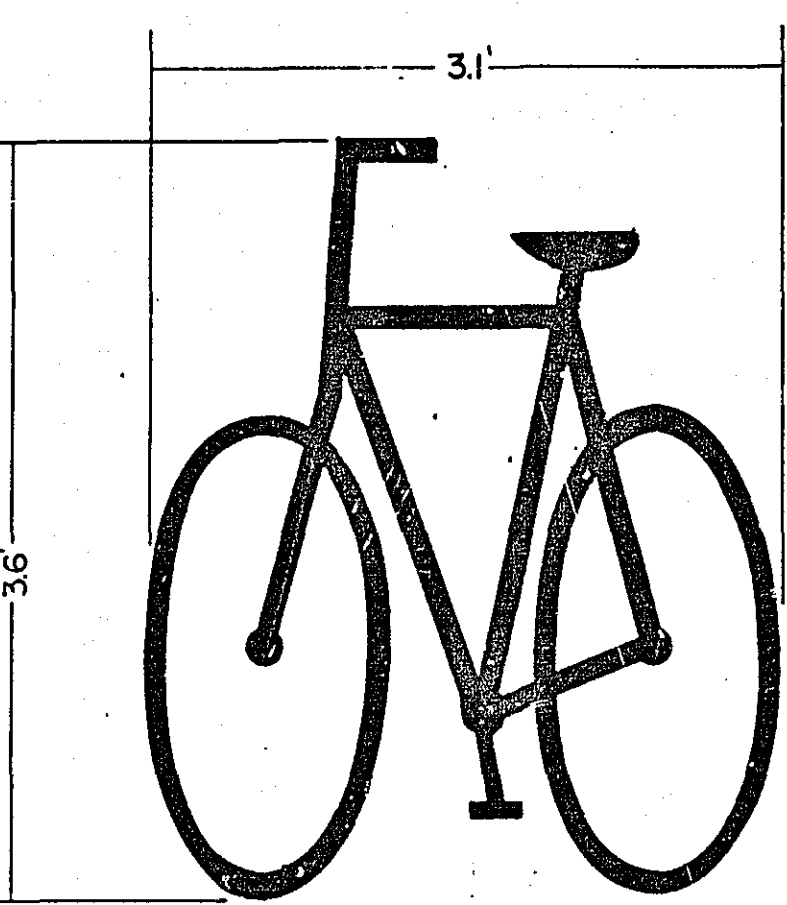
TYPICAL GUARDRAIL TREATMENT AT TREES



TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT



TYPICAL ENTRANCE TREATMENT



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *GRB*
DATE: *1/26/82*

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.

Paul J. Schmidt
Date *1-18-82* Reg. No. *12703*

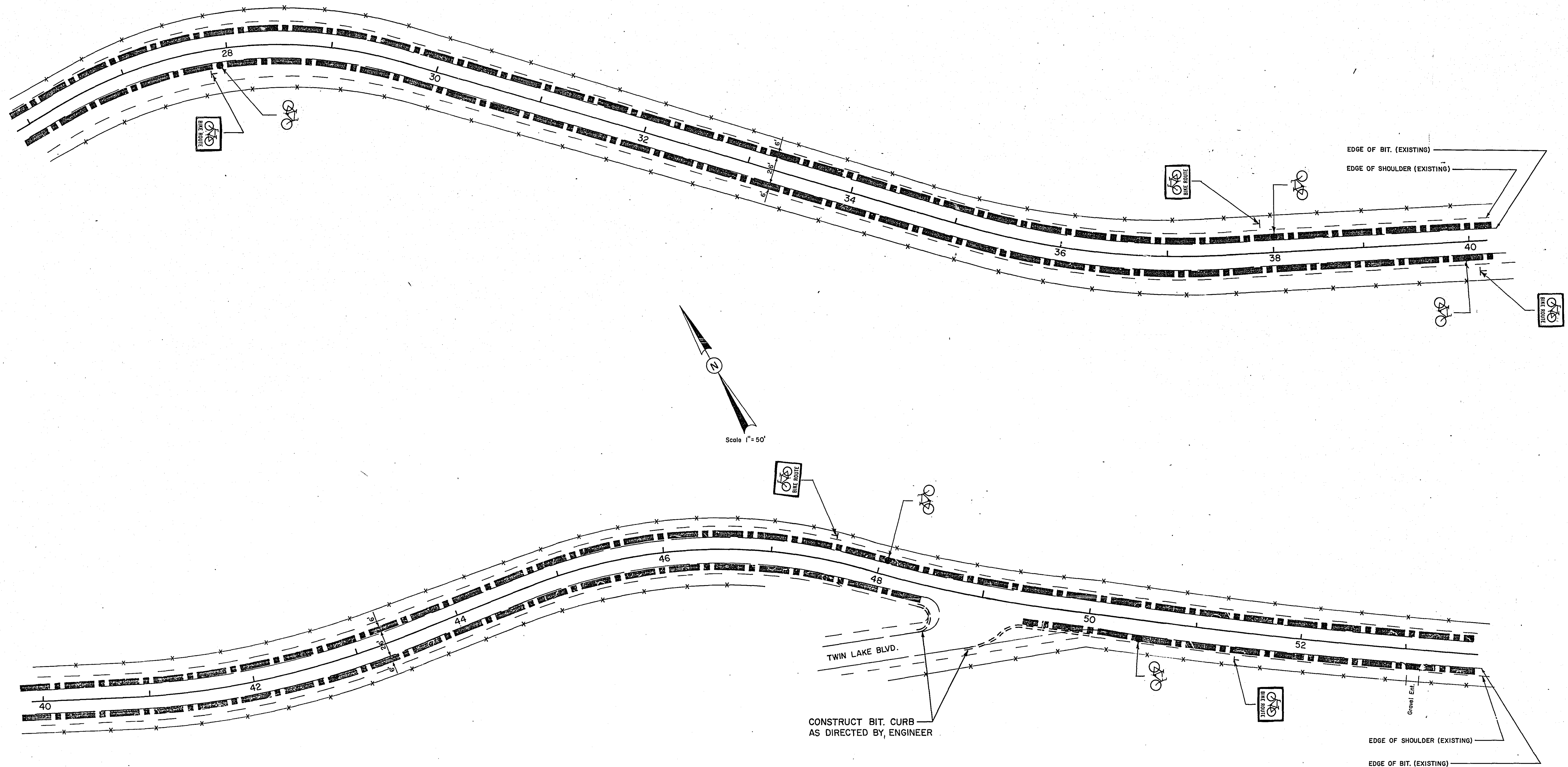
REVISED	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
Guardrail by Tree	9-28-78			
BCT	9-28-78			

S.A.P. NO. 62-616-01

Sheet No. 2 of 7 Sheets

25-121

25-121



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 7-18-78 Reg. No. 12703

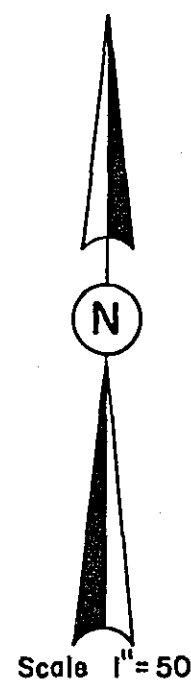
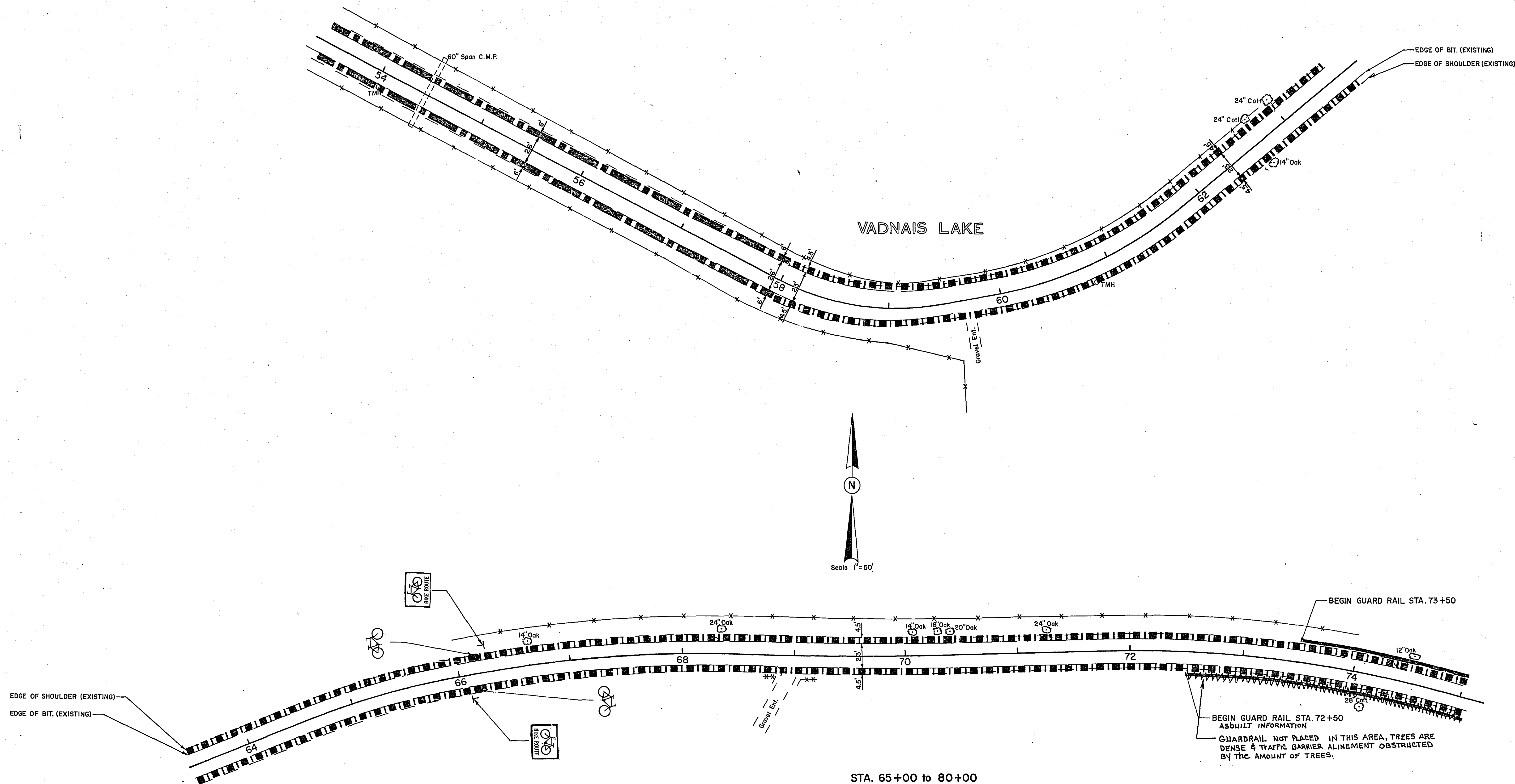
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *[Signature]*
DATE: 1/26/82

S.A.P. NO. 62- 616-01

Sheet No. 4 of 7 Sheets

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STA. 65+00 to 80+00

SEE SHEET 7 FOR BIKE LANE
AND GUARDRAIL PLACEMENT.

WHERE TREES ARE WITHIN 5'
OF GUARDRAIL FACE PROVIDE
DECREASED POST SPACING AS
SHOWN ON DETAIL, SHEET 2.
PAYMENT FOR THIS CONSTRUCTION
SHALL BE INCIDENTAL.

REVISED	DATE	DESIGNED BY	CHECKED BY
Guardrail by Trees	9-28-78		
		DRAWN BY	
		CHECKED BY	

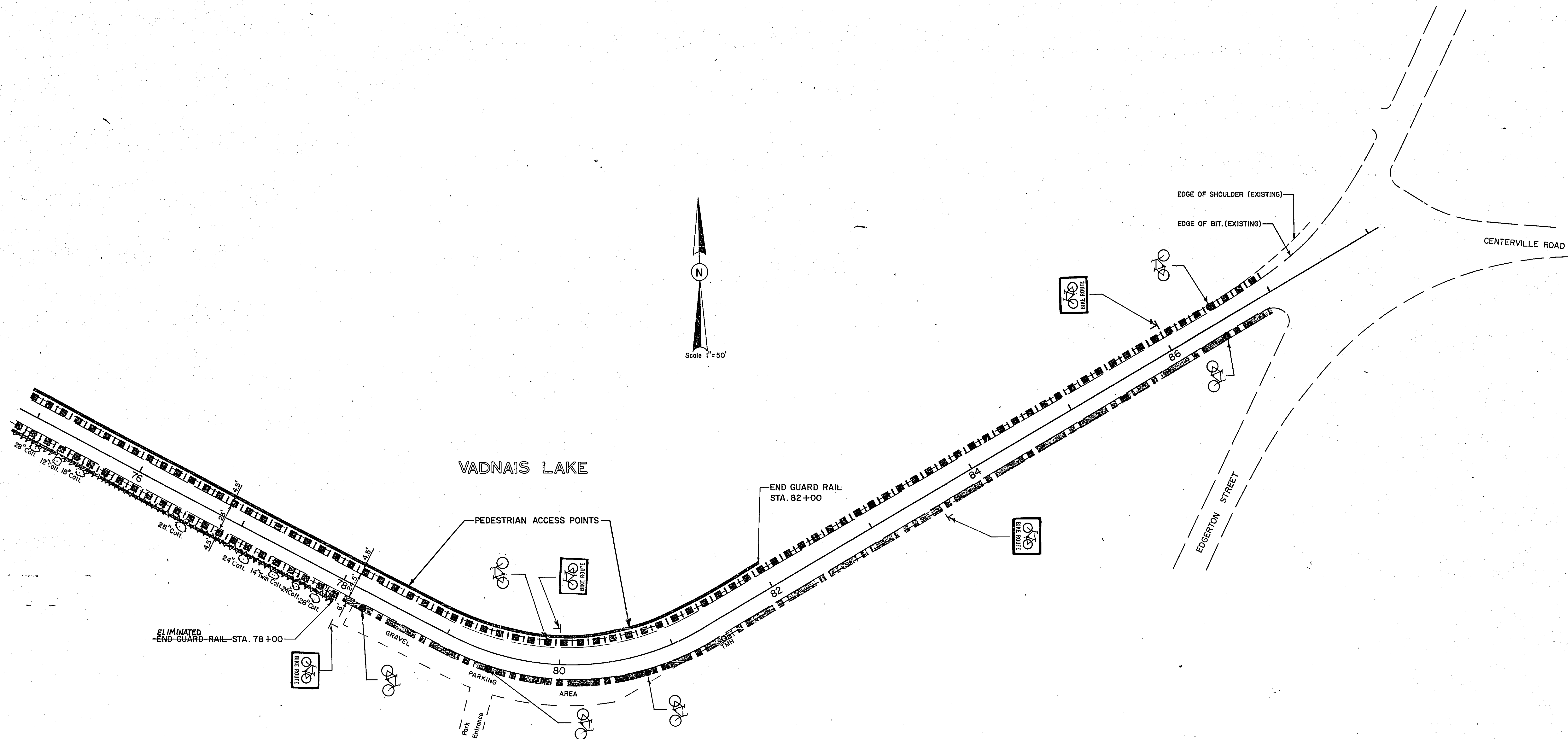
I hereby certify that this plan, specification
or report was prepared by me or under my
direct supervision and that I am a duly
Registered Professional Engineer under
the laws of the State of Minnesota.
Paul L. Schuch
Date 7-18-78 Reg. No. 12703

ASBUILT PLAN
CONFORMING TO
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DONE BY: *CRB*
DATE: 1/26/82

S.A.P. NO. 62- 616-01

Sheet No. 5 of 7 Sheets

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ELIMINATED
END GUARD RAIL—STA. 78+00

END GUARD RAIL
STA. 82+00

STA. 78+00 to 81+00
PROVIDE TWO PEDESTRIAN ACCESS POINTS IN GUARD RAIL
AT LOCATIONS DIRECTED BY THE ENGINEER. APPROPRIATE
END SECTIONS SHALL BE IN ACCORDANCE WITH
STANDARD PLATE 8329A.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *GR*
DATE: 1/26/82

REVISED	DATE	DESIGNED BY
BCT	9-28-78	
		DRAWN BY
		CHECKED BY

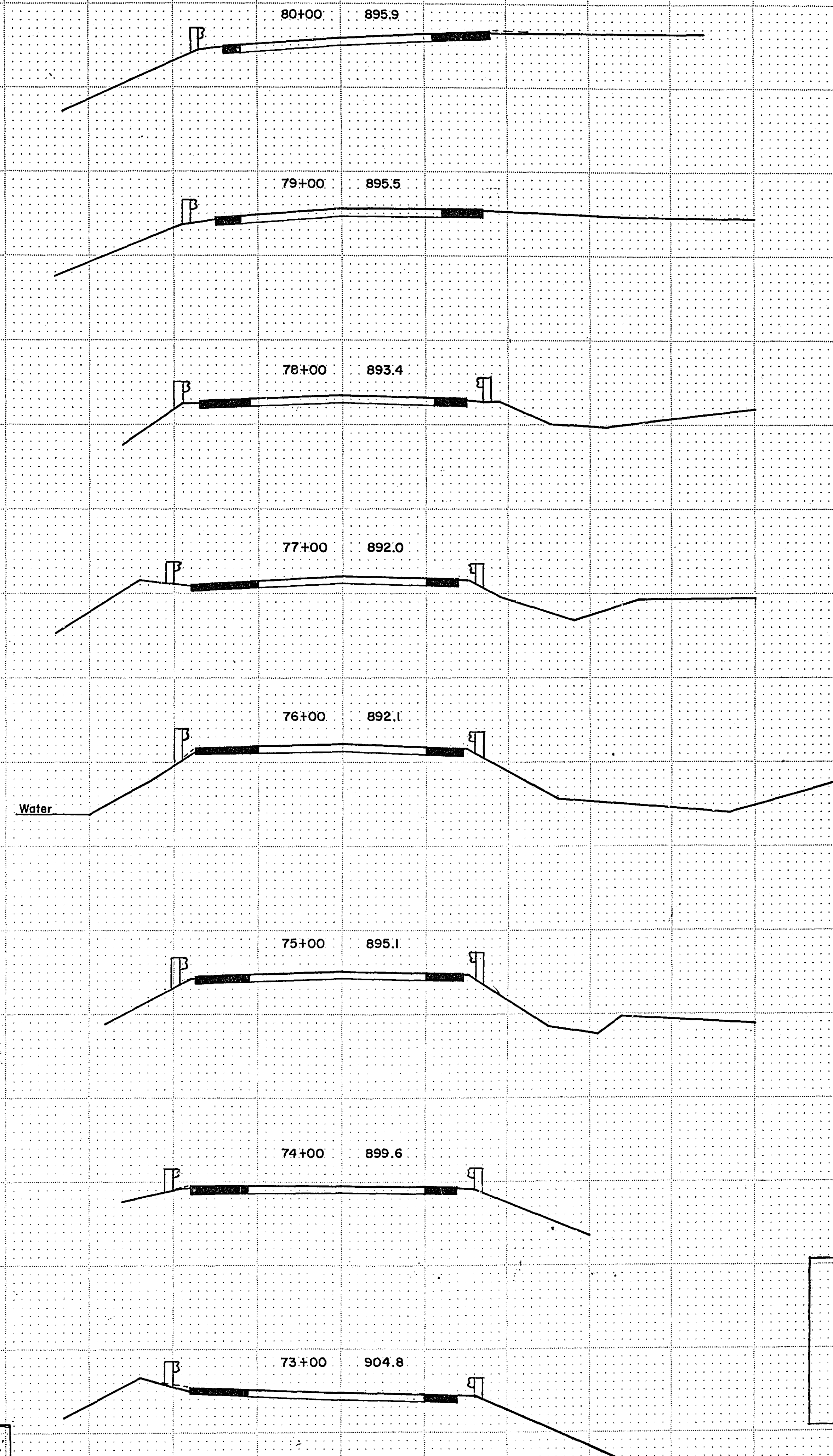
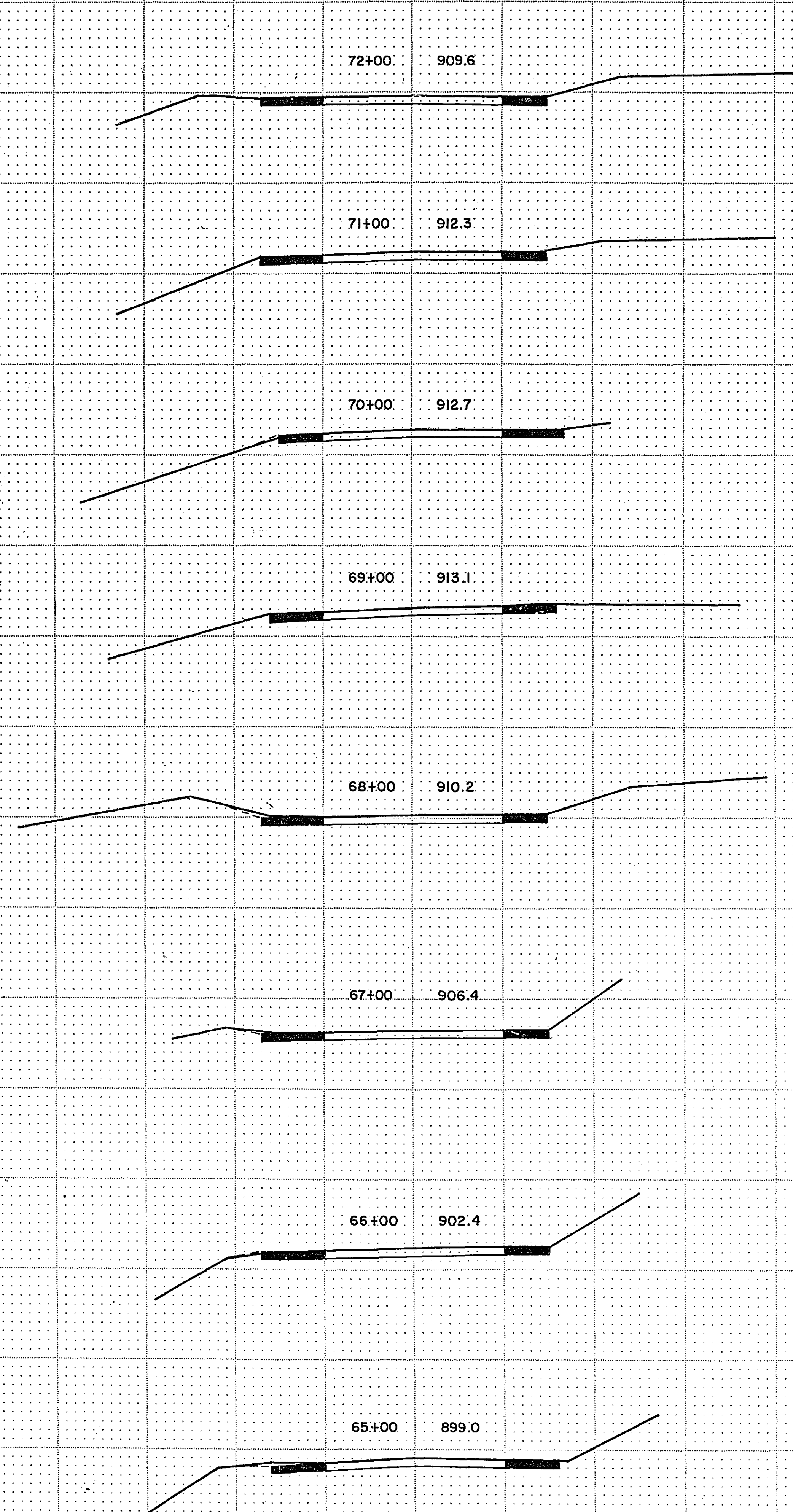
I hereby certify that this plan, specification,
or report was prepared by me or under my
direct supervision and that I am a duly
Registered Professional Engineer under
the laws of the State of Minnesota.

Paul L. Kowalski
Date 7-19-78 Reg. No. 12703

S.A.P. NO. 62-616-01

Sheet No. 6 of 7 Sheets
25-121

Fed. Proj. No.



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.
Paul J. Schell
Date 2-18-78 Reg. No. 12703

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *GRB*
DATE: 1/26/82