

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

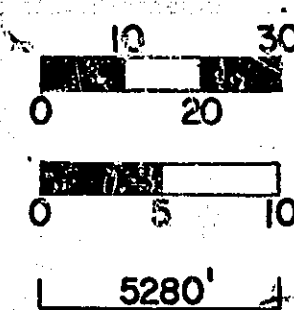
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATILE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT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

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
PNEUMATIC 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

PLAN
CROSS-SECTIONS
LAYOUT



GROSS LENGTH 5,400 FEET= 1.02 MILES
BRIDGES-LENGTH 0 FEET= 0 MILES
EXCEPTIONS-LENGTH 0 FEET= 0 MILES
NET LENGTH 5,400 FEET= 1.02 MILES

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROAD "C" BIKEWAY

CONSTRUCTION PLAN FOR BIKEWAY
BETWEEN: FAIRVIEW AVE. AND HAMLINE AVE.
S.A.P. NO. 62-623-20

FROM: A POINT 258.5 FEET NORTH OF THE SOUTH
QUARTER CORNER OF SECTION 4, TOWNSHIP
29 NORTH, RANGE 23 WEST.
TO: THE SOUTH QUARTER CORNER OF SECTION 3,
TOWNSHIP 29 NORTH, RANGE 23 WEST.

TRAFFIC VOLUME

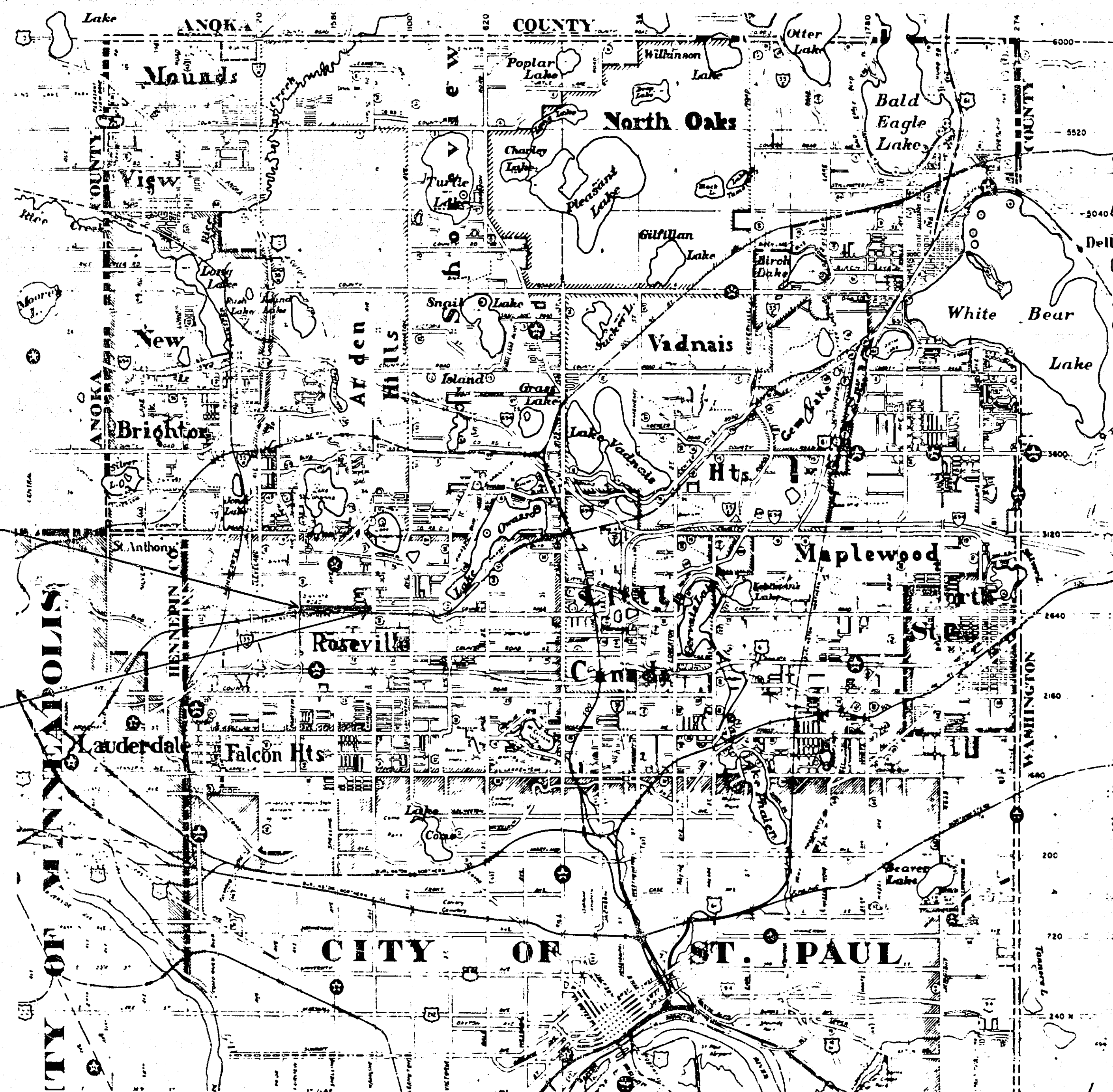
ADT	FAIRVIEW TO SNELLING	SNELLING TO-HAMLINE
1980	10,200	6,775
2000	12,000	8,000

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTION
3,4	PLAN SHEETS
5	CROSS-SECTIONS

BEGIN PROJECT
STA. 80+00

END PROJECT
STA. 26+00



THIS PLAN SUBJECT TO MINOR REVISIONS
2-09-81

PIT DATA

PIT NO. Located in
Dead Haul

PIT NO. Located in
Dead Haul

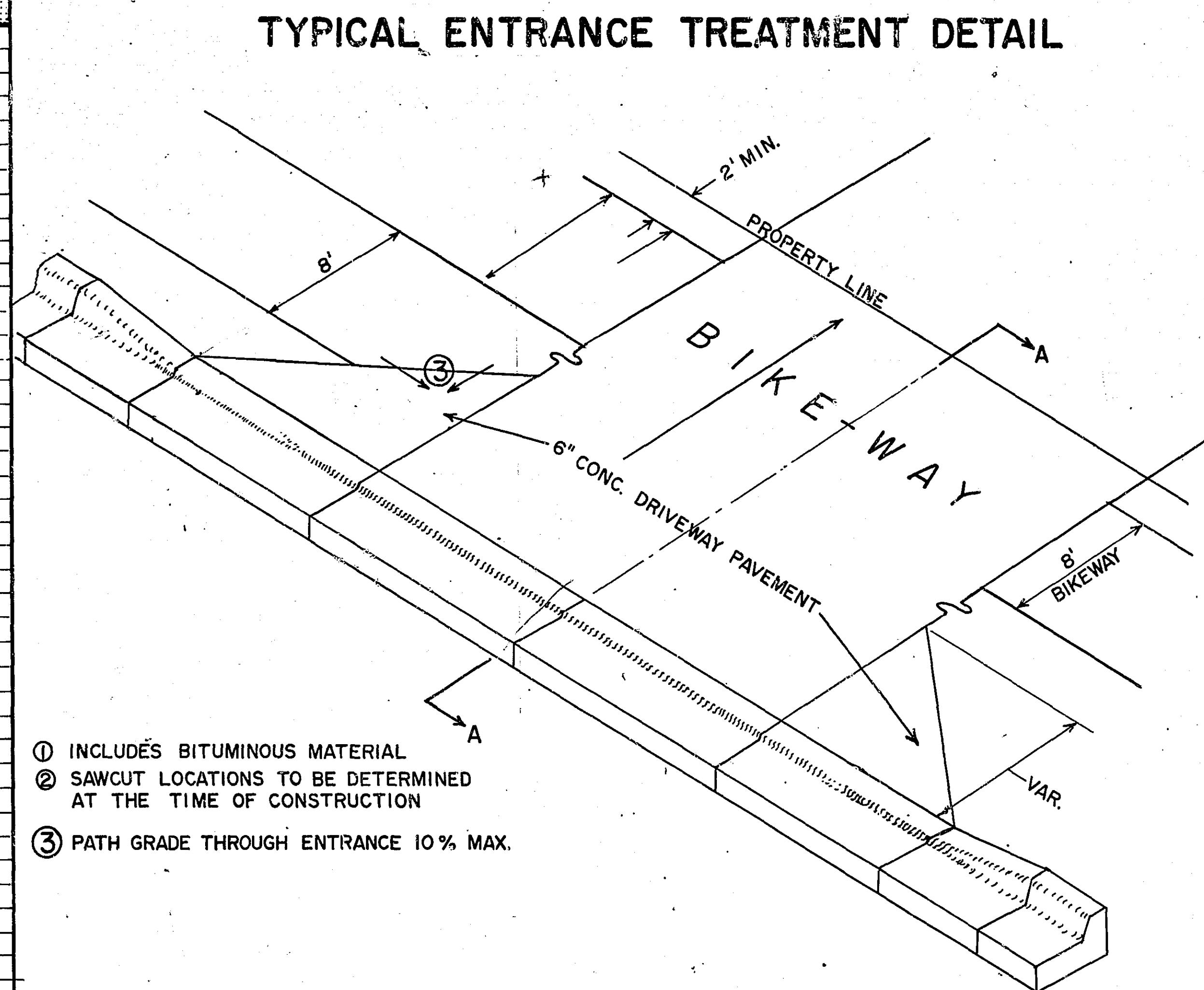
DESIGN SQUAD _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF MINNESOTA.
DATE 2-09-81 REG. NO. 13501 ENGR. Larry Fildner

RECOMMENDED FOR APPROVAL *PLK* DATE 2-13-81
TRAFFIC ENGR.
RECOMMENDED FOR APPROVAL *DR* DATE 2/27/81
CIV. ENGR.
RECOMMENDED FOR APPROVAL *MOX* DATE 2/27/81
MAINT. ENGR.
RECOMMENDED FOR APPROVAL *DR* DATE 2/27/81
CONST. ENGR.
RECOMMENDED FOR APPROVAL *LKF* DATE 4-13-81
RECOMMENDED FOR APPROVAL *JAF* DATE 4-14-81
RECOMMENDED FOR APPROVAL *DR* DATE 4-14-81
COORDINATING ENGR.
APPROVED *DR* DATE 4-14-81
DISTRICT STATE AID ENGINEER
APPROVAL *DR* DATE 7/20/81
DIRECTOR, OFFICE OF STATE AID
RECOMMENDED FOR APPROVAL *DR* DATE 2-27-81
COUNTY ENGINEER
APPROVED *DR* DATE 5/24/82
CHAIRMAN OF THE RAMSEY COUNTY BOARD
APPROVED *DR* DATE 4-16-81
MAYOR, CITY OF ROSEVILLE
APPROVED *DR* DATE 4-16-81
CITY OF ROSEVILLE
MINNESOTA DEPARTMENT OF TRANSPORTATION
RECOMMENDED FOR APPROVAL *DR* DATE 2-20-81
DISTRICT STATE AID ENGINEER
APPROVAL *DR* DATE 7/20/81
DIRECTOR, OFFICE OF STATE AID

PLAN REVISIONS		
DATE	SHEET NO.	BY
4-13-81	(1)	TITLE BLOCK LKF

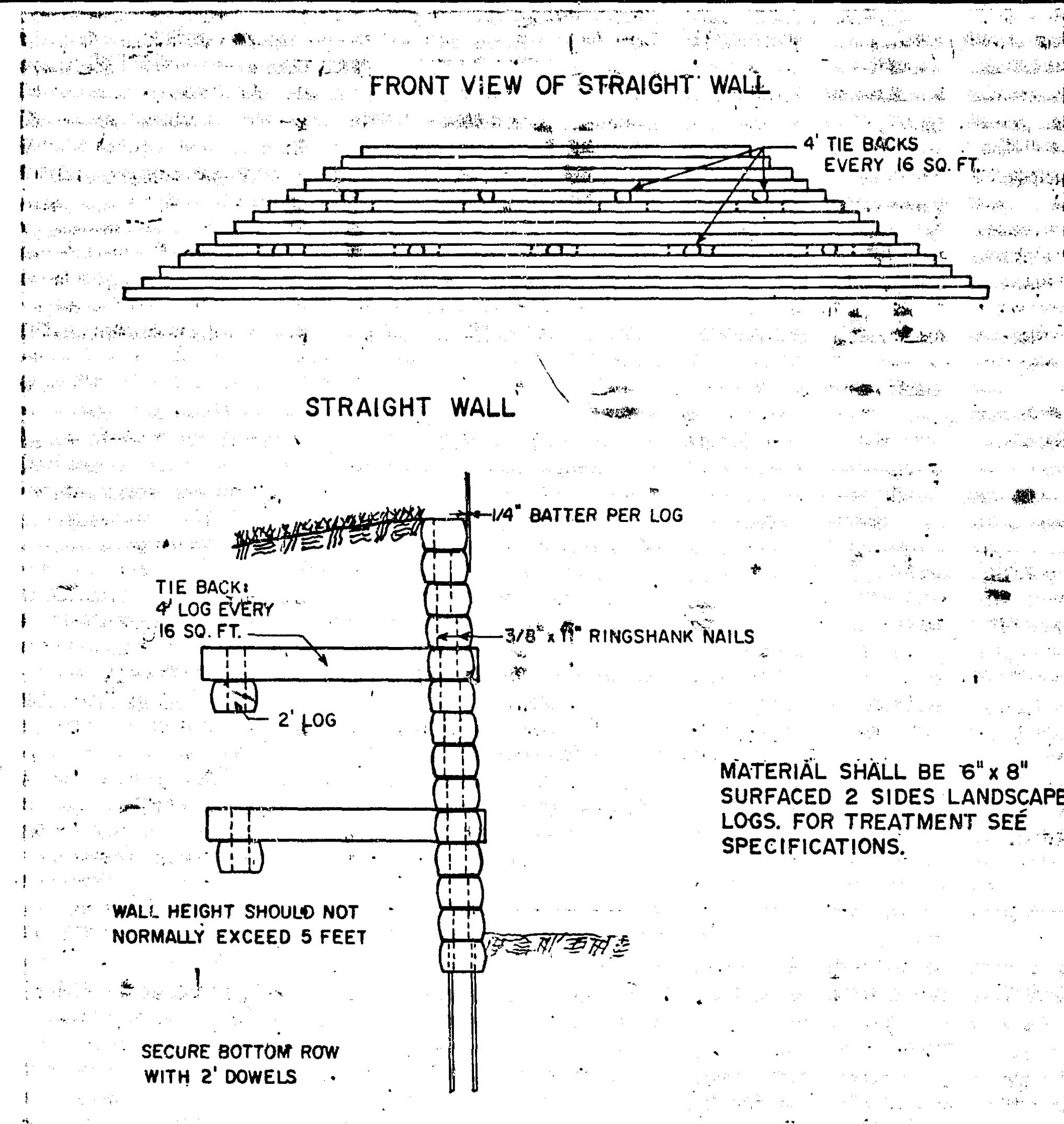
THE 1978 EDITION OF THE MINNESOTA DEPARTMENT
OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR
HIGHWAY CONSTRUCTION" SHALL GOVERN.

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	L.S.	1	
2104.501	REMOVE CONCRETE CURB & GUTTER	L.F.	906	
2104.503	REMOVE PAVEMENT	S.Y.	604	
2104.521	SALVAGE CHAIN LINK FENCE	L.F.	215	
2104.523	SALVAGE 18" CONCRETE APRON	EACH	1	
2105.501	COMMON EXCAVATION	C.Y.	1961	
2105.523	COMMON BORROW (LV)	C.Y.	200	
2105.525	TOPSOIL BORROW	C.Y.	313	
2211.501	AGGREGATE BASE, CLASS 6 OR 5 (100% CRUSHED)	TON	1297	
2341.518	BIT. MIXTURE FOR PATCHING ALONG NEW PED. RAMPS	TON	30	
2501.515	15" C.S. PIPE APRON	EACH	1	
2501.511	15" C.S. PIPE CULVERT, 16 GAUGE	L.F.	5	
2503.511	18" R.C. PIPE SEWER CL. II	L.F.	12	
2506.522	ADJUST FRAME AND RING CASTING	EACH	6	
2531.501	CONCRETE CURB & GUTTER, DESIGN B618	L.F.	906	
2531.507	6" CONCRETE DRIVEWAY PAVEMENT	S.Y.	604	
0301.604	SAWCUT CONCRETE PAVEMENT	L.F.	232	
2557.501	WIRE FENCE, DESIGN 60-9322 (GALV.)	L.F.	60	
2575.505	SODDING	S.Y.	3750	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	0.14	
412.604	TIMBER WALL	S.F.	875	
503.602	INSTALL 18" CONCRETE APRON	EACH	1	
557.603	INSTALL CHAIN LINK FENCE	L.F.	205	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	47	
2341.508	WEARING COURSE MIXTURE (BIKEWAYS)	TON	412	
2341.510	BINDER COURSE MIXTURE (BIKEWAYS)	TON	412	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	187	
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	1,124	

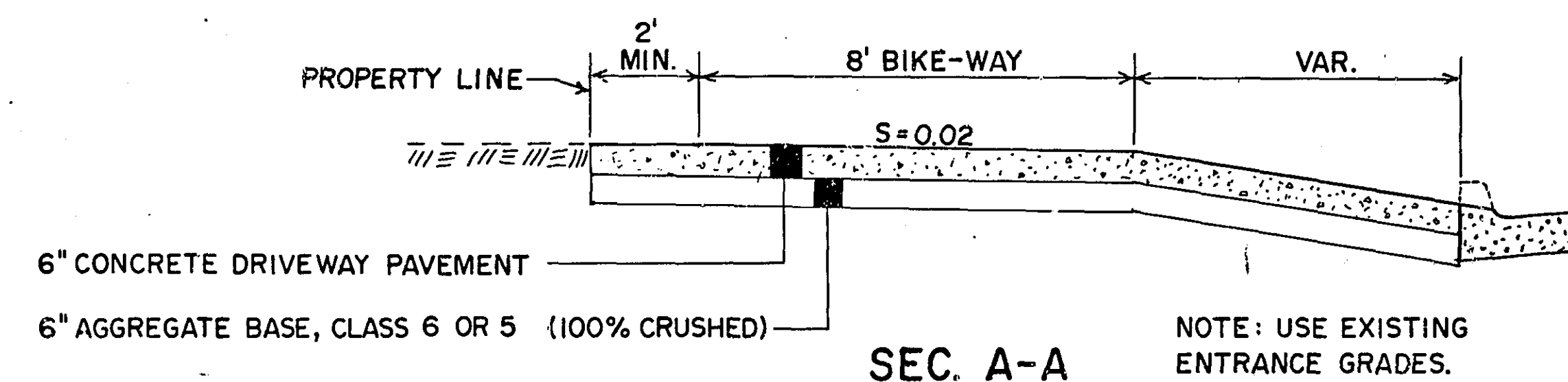


- ① INCLUDES BITUMINOUS MATERIAL
- ② SAWCUT LOCATIONS TO BE DETERMINED AT THE TIME OF CONSTRUCTION
- ③ PATH GRADE THROUGH ENTRANCE 10% MAX.

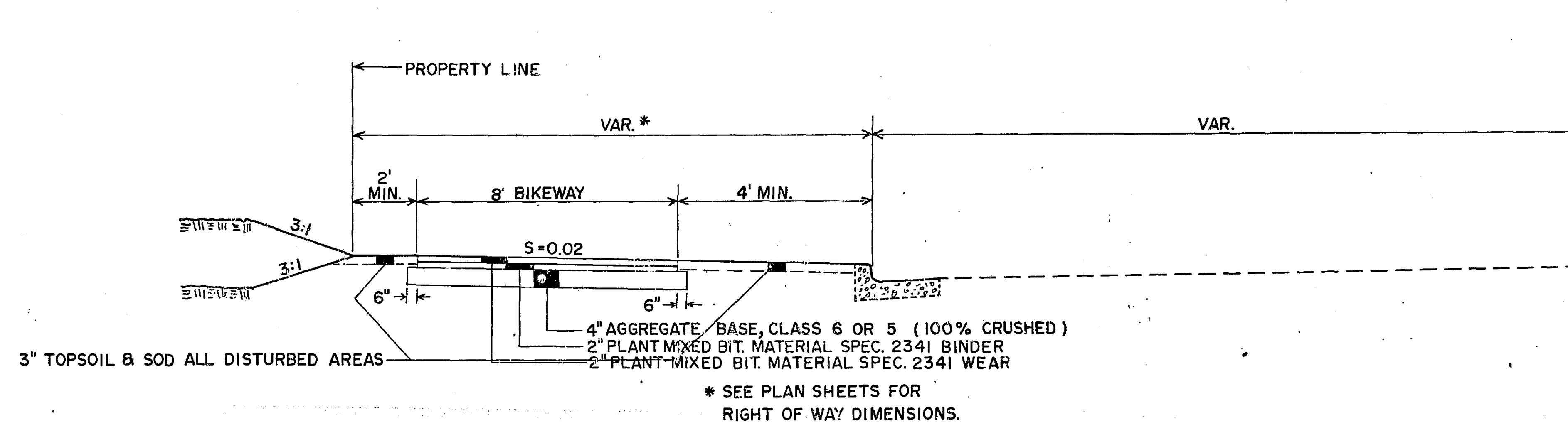
STANDARD DETAIL PLATES	
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 I	REINFORCED CONCRETE PIPE
3040F	CORRUGATED METAL PIPE CULVERT
3100F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3123 H	METAL APRON FOR C.M.P.
7035 J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036 C	PEDESTRIAN CURB RAMP
7100 B	CONCRETE CURB & GUTTERS
8000H	STANDARD BARRICADES
9322'H	CHAIN LINK FENCE



TIMBER RETAINING WALL
SCALE: 3/4" = 1'-0"

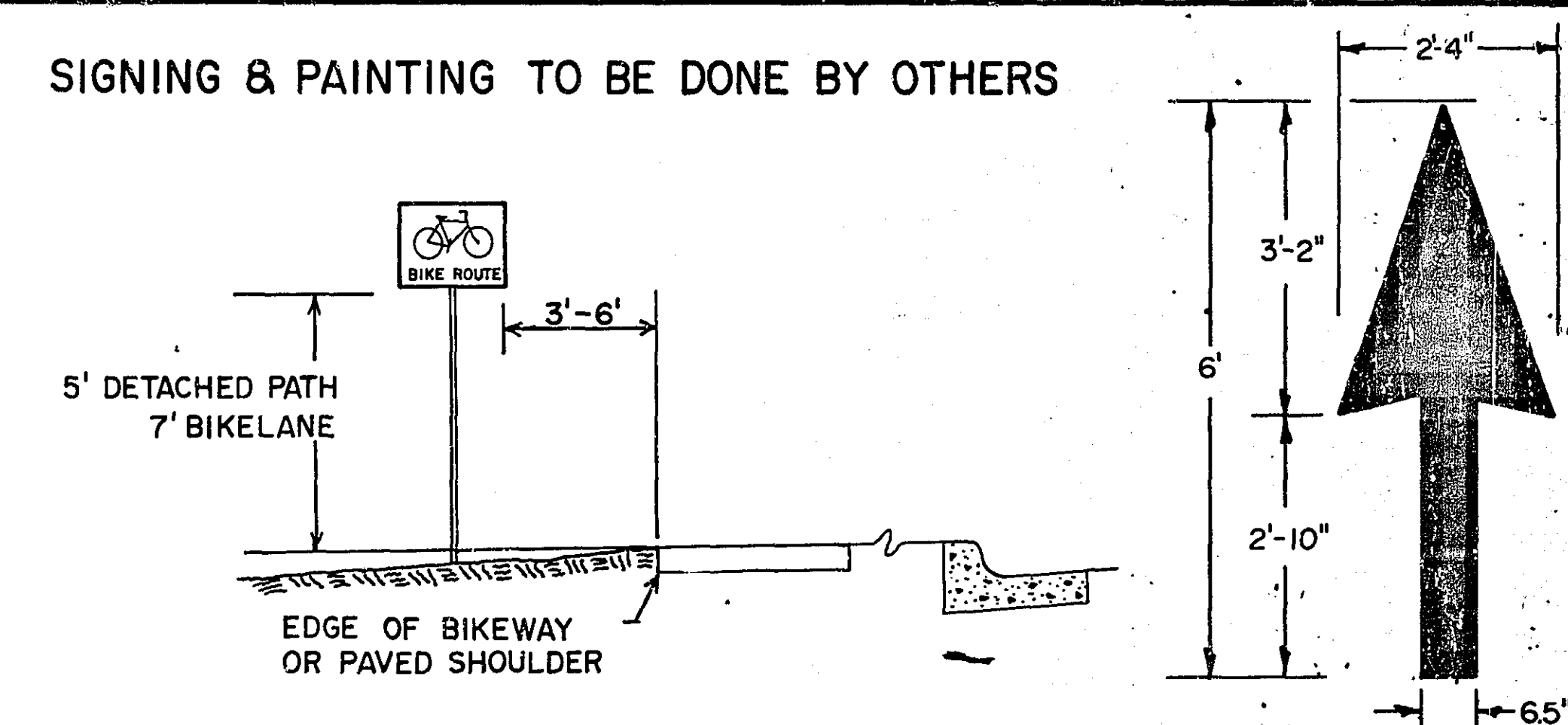


TYPICAL SECTION



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.

SIGNING & PAINTING TO BE DONE BY OTHERS



TYPICAL SIGN & PAVEMENT MESSAGE PLACEMENT

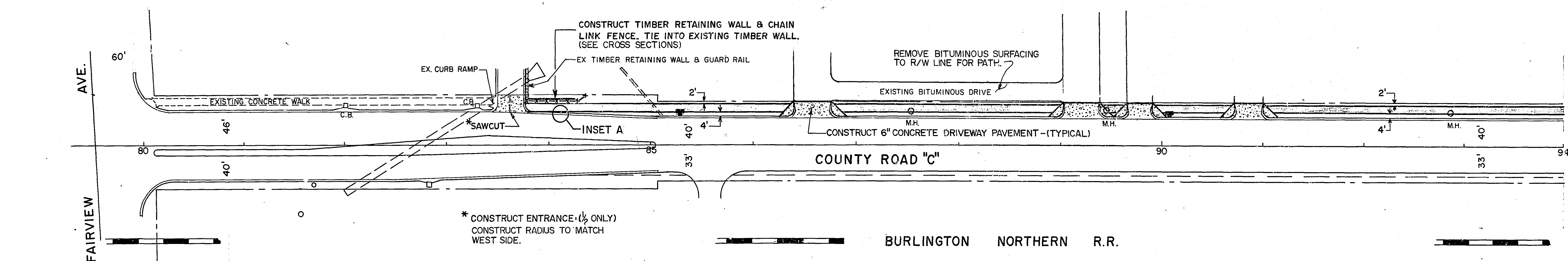


REVISED	DATE	DESIGNED BY
		DRAWN BY
		CHECKED BY

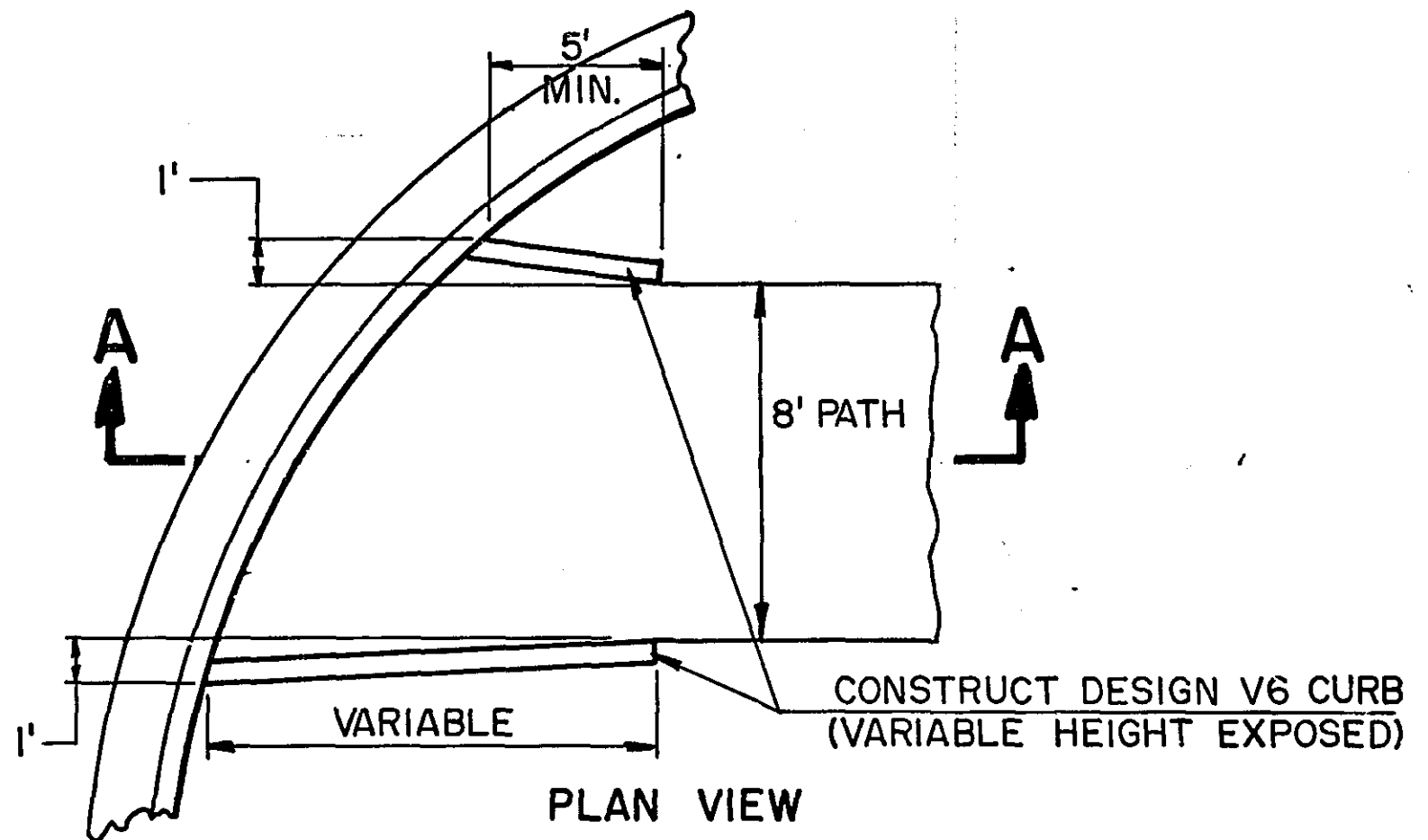
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Randy J. Jellison
Date: 4-13-81 Reg. No. 13501

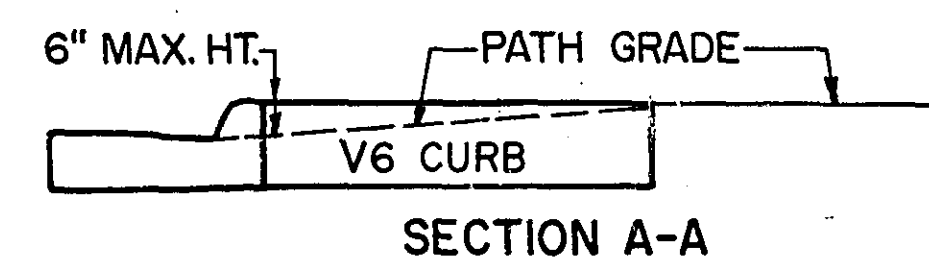
CITY OF ROSEVILLE



CONSTRUCT PEDESTRIAN CURB RAMP AT ALL INTERSECTIONS AS DIRECTED BY THE ENGINEER.

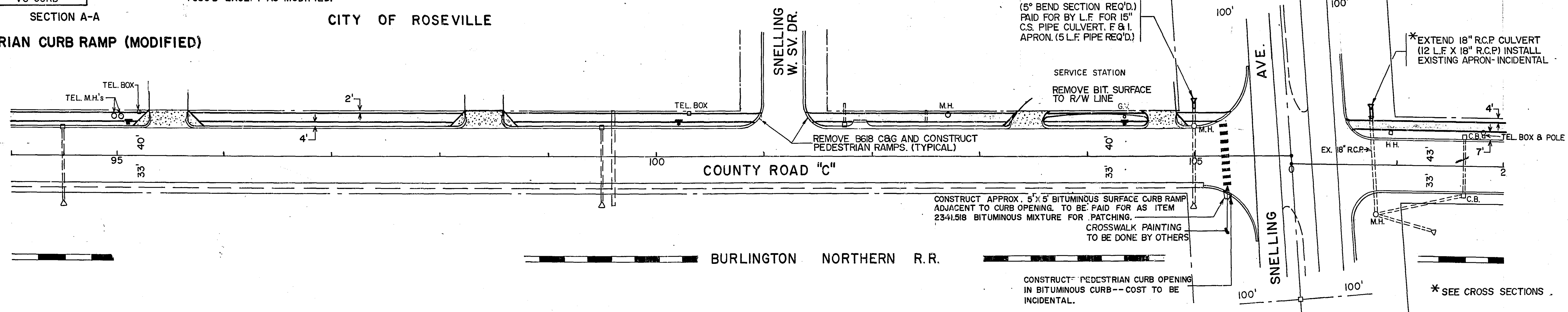


NOTE: PAYMENT FOR V6 CURB SHALL BE CONSIDERED TO BE INCIDENTAL TO THE PROJECT. PEDESTRIAN CURB RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH MN/DOT STANDARD PLATE NO. 7036 B EXCEPT AS MODIFIED.



PEDESTRIAN CURB RAMP (MODIFIED)

CITY OF ROSEVILLE

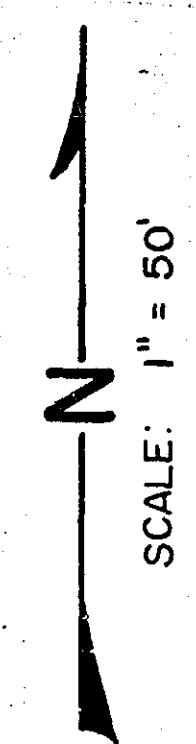
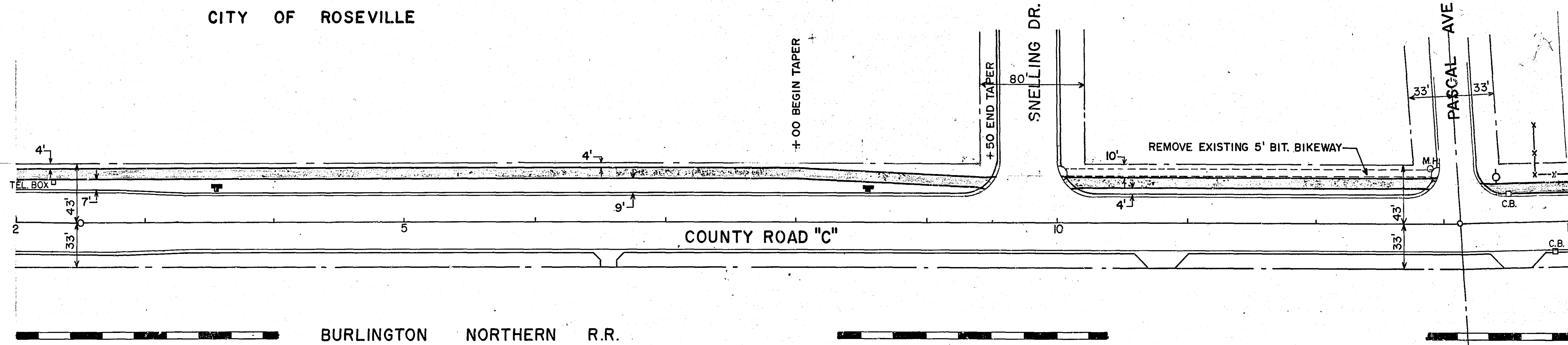


CONSTRUCT APPROX. 5' X 5' BITUMINOUS SURFACE CURB RAMP ADJACENT TO CURB OPENING. TO BE PAID FOR AS ITEM 2341.518 BITUMINOUS MIXTURE FOR PATCHING. CROSSWALK PAINTING TO BE DONE BY OTHERS.

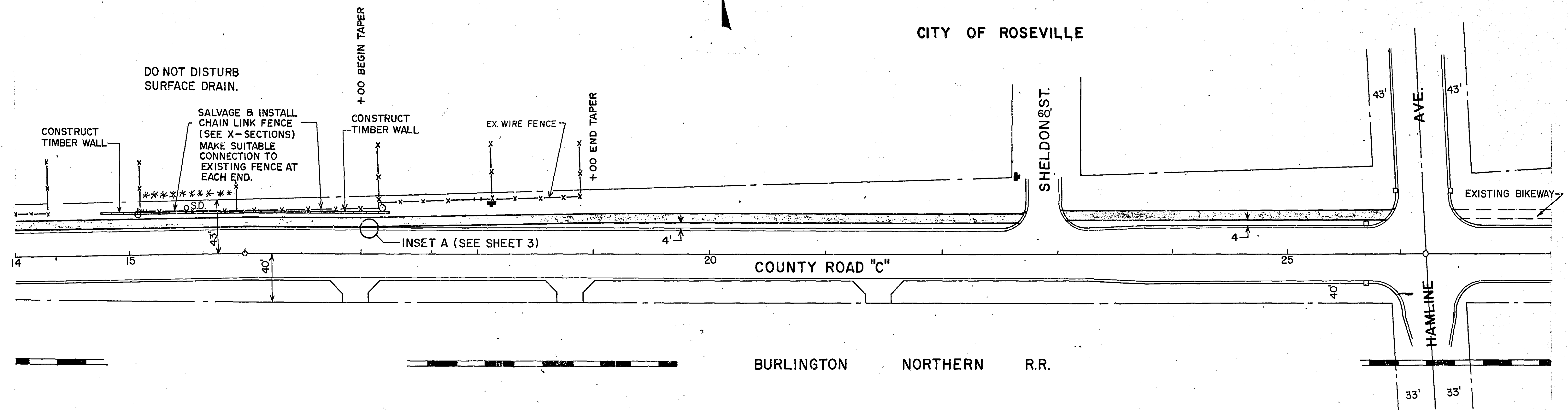
CONSTRUCT PEDESTRIAN CURB OPENING IN BITUMINOUS CURB--COST TO BE INCIDENTAL.

REVISED	DATE	DESIGNED BY
LKF	PATH SHADING 4-13-81	
LKF	CURB RAMP 50.518 7-27-81	
	TEL. PLACES AT 8-19-82	
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.
Harry F. Feldman
Date 3-18-81 Reg. No. 13501

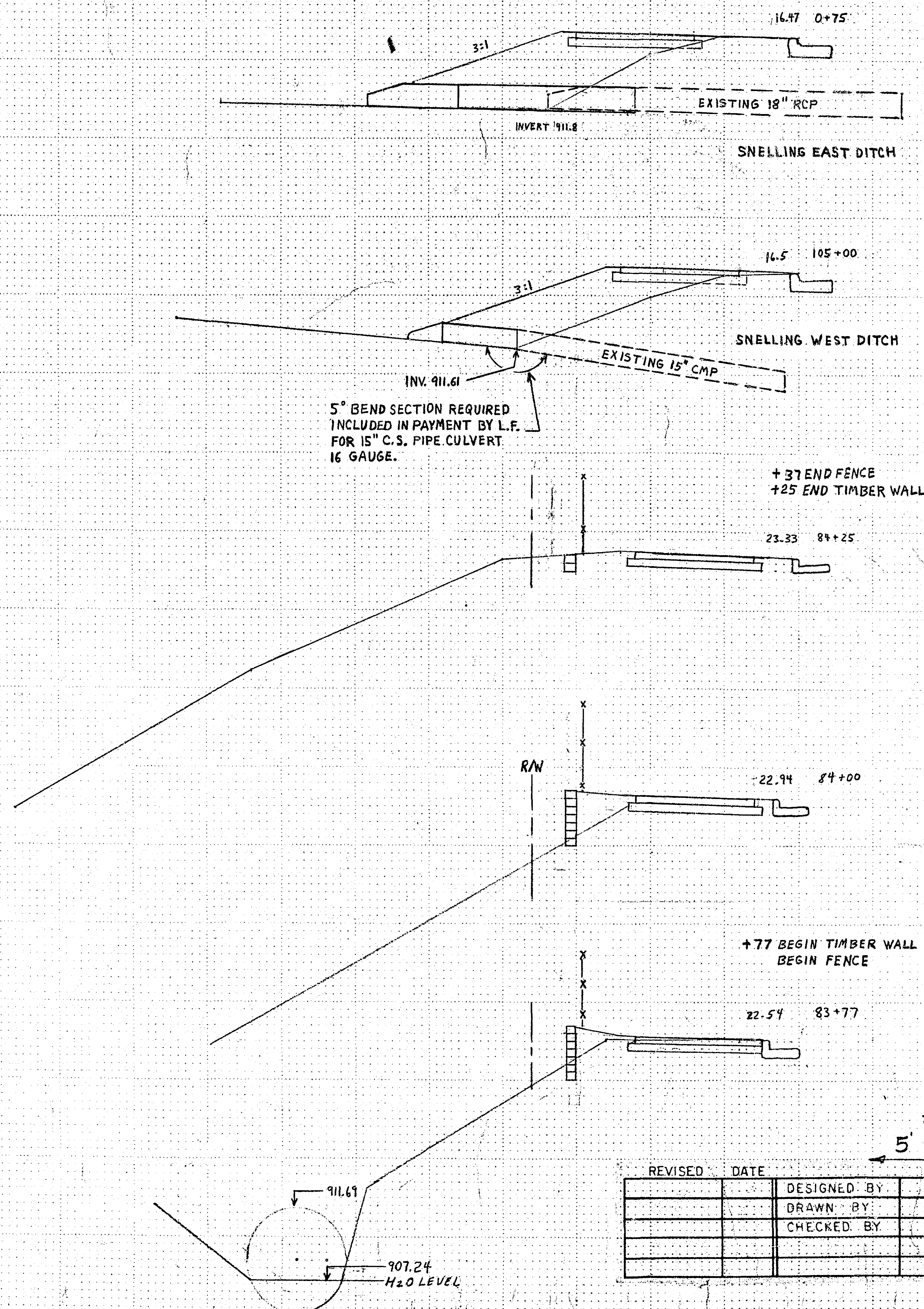


NOTE: CONSTRUCT PEDESTRIAN CURB RAMPS AT ALL INTERSECTIONS AS DIRECTED BY THE ENGINEER.

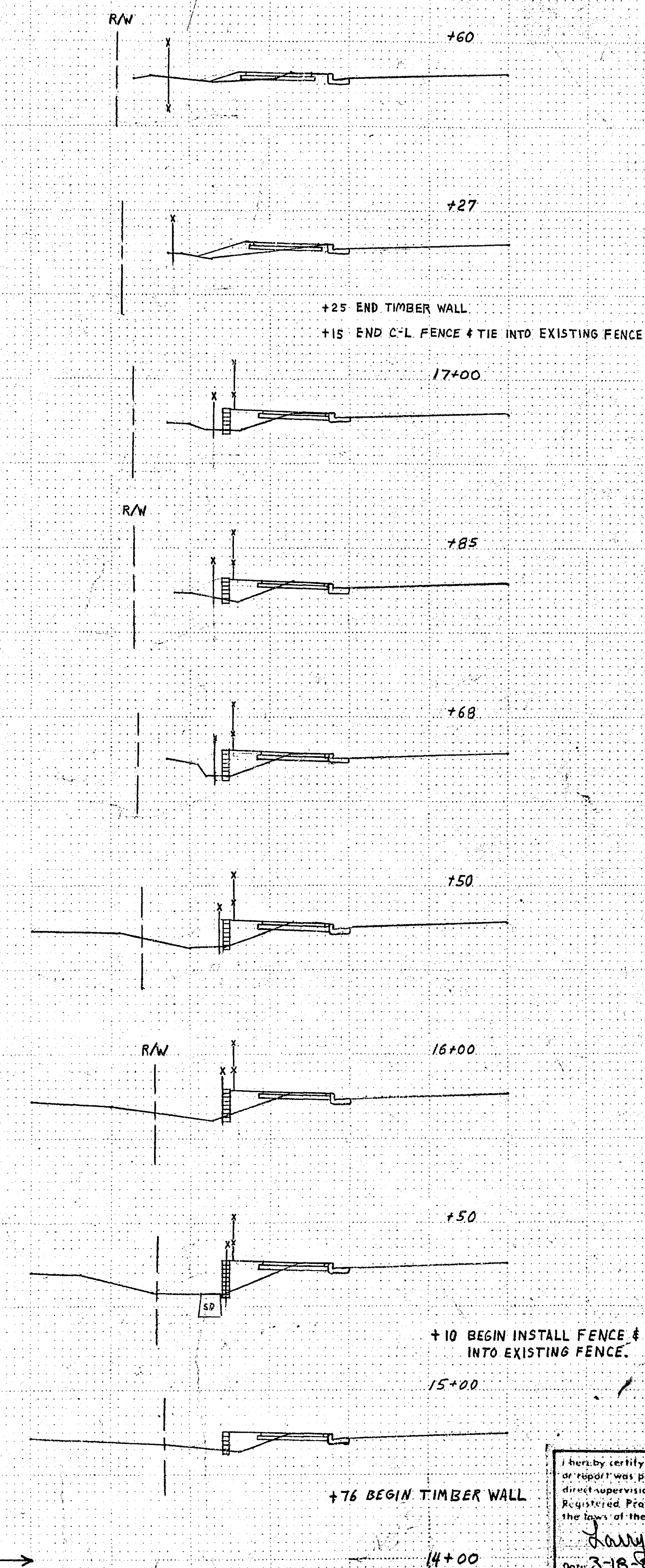


REVISED	DATE	DESIGNED BY
PATH SHADING	9-13-81	
		DRAWN BY
		CHECKED BY

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 F. Johnson
 Date 3-18-81 Reg. No. 13827



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 Field

Date: 3-18-81 Reg. No. 13501