

CITY OF DETROIT CITY ENGINEERING DIVISION - E.P.M.D.

IN CO-OPERATION WITH

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

AND

FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED

FEDERAL AID URBAN PROJECT NO. MICHIGAN M 2000 (100)

CONTROL SECTION MUN82400 JOB NUMBER 13141A

B.P.R. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH			1	1
STREET	CITY	COUNTY	TWP	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		1	1

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION'S CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

INDEX OF SHEETS

1. TITLE SHEET
2. TYPICAL CROSS SECTIONS
3. PLAN
4. QUANTITY SHEET



W OUTER DR-SPINOZA DR.
BIKEWAY IN
RIVER ROUGE PARK

ITEM No 400

CONTRACT FOR BICYCLE PATH

LOCAL AUTHORITY APPROVAL
CITY OF DETROIT
CITY ENGINEERING DIVISION
ENVIRONMENTAL PROTECTION & MAINTENANCE DEPARTMENT

APPROVED BY J. J. Cant 12/14/67
ASSISTANT CITY ENGINEER DATE

APPROVED BY W. W. Kula 12/14/67
CITY ENGINEER DATE

RECOMMENDED FOR APPROVAL
BY V. O. Gray 8/1/78
F.A.U. ENGINEER DATE

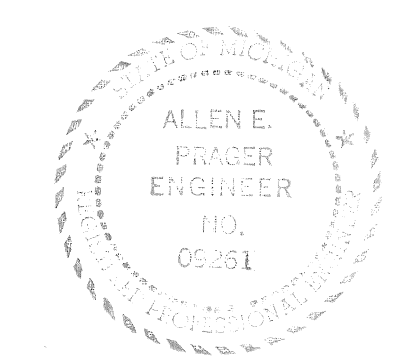
PLANS CHECKED BY Gary D. Taylor 8-1-78
DATE

DEPARTMENT OF STATE HIGHWAYS APPROVAL
APPROVED FOR COMMISSION
BY Wm. C. Carls 8/1/78
DEPUTY DIRECTOR-HIGHWAYS DATE

PREPARED UNDER SUPERVISION OF
Allen E. Prager 09261
REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

CITY OF DETROIT
ORGANIZATION

DETROIT MICHIGAN
ADDRESS

(SEAL) 

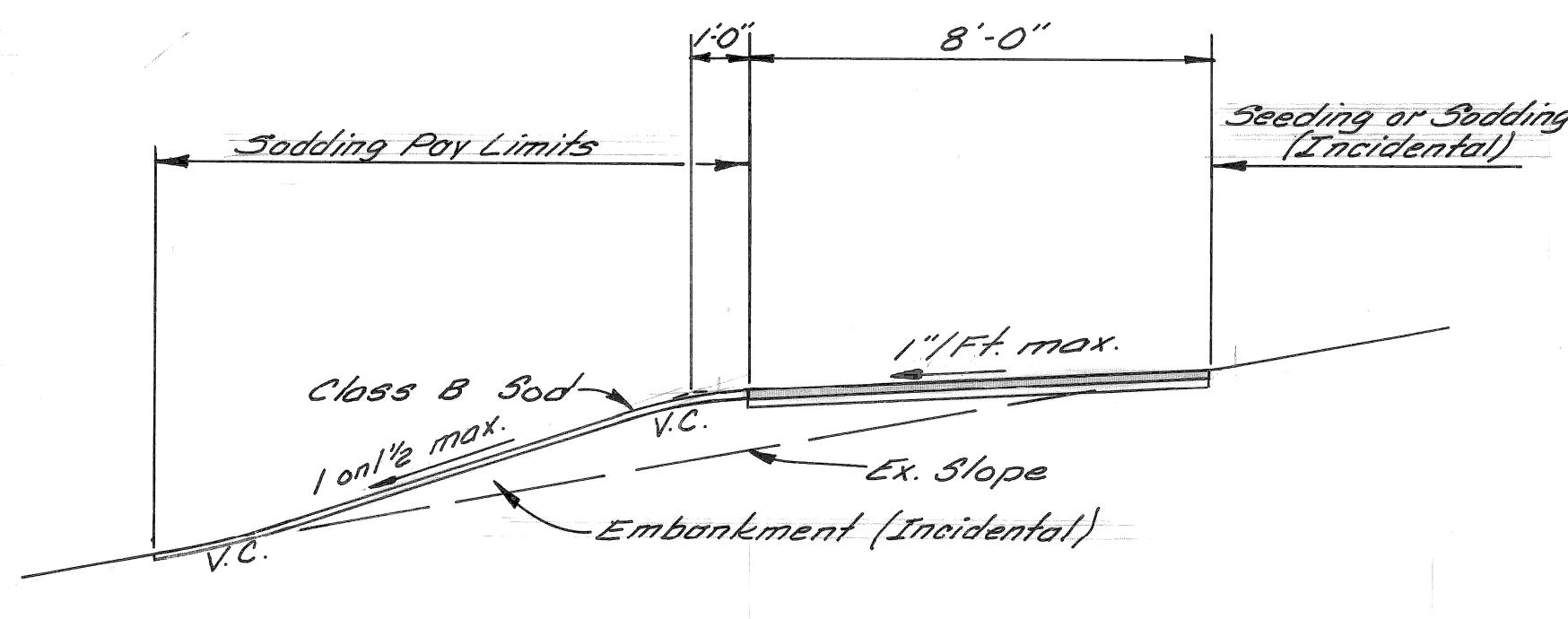
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DISTRICT ENGINEER

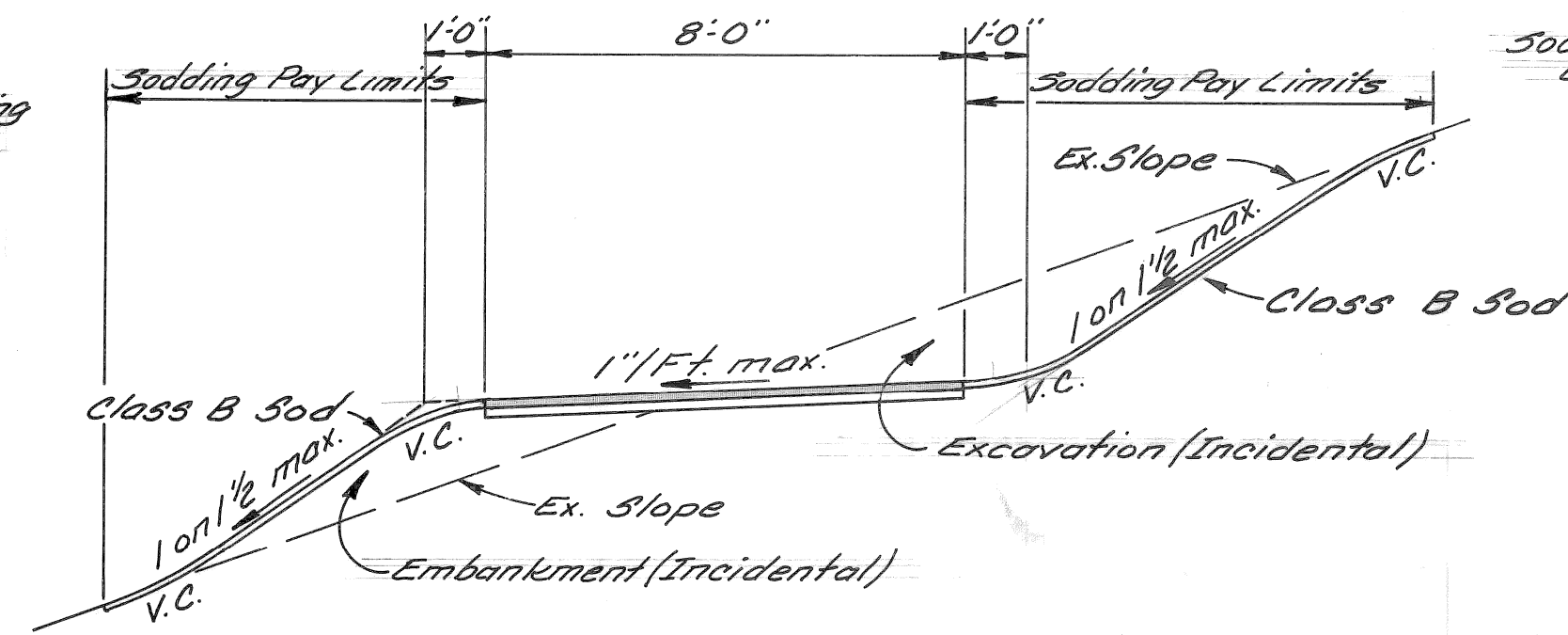
JOB No 13141A
C.S. MUN82400

FILE NO. 13141A	STATE PROJECT	FEDERAL PROJECT	SHEET NO. 1
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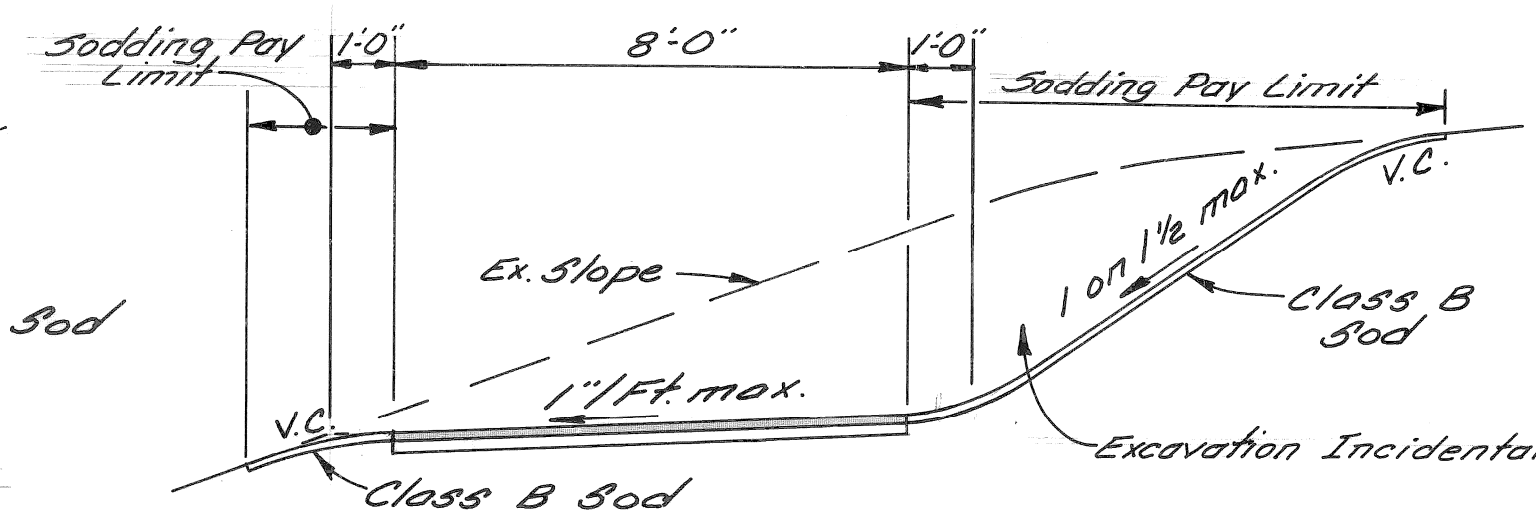
TYPICAL CROSS-SECTIONS



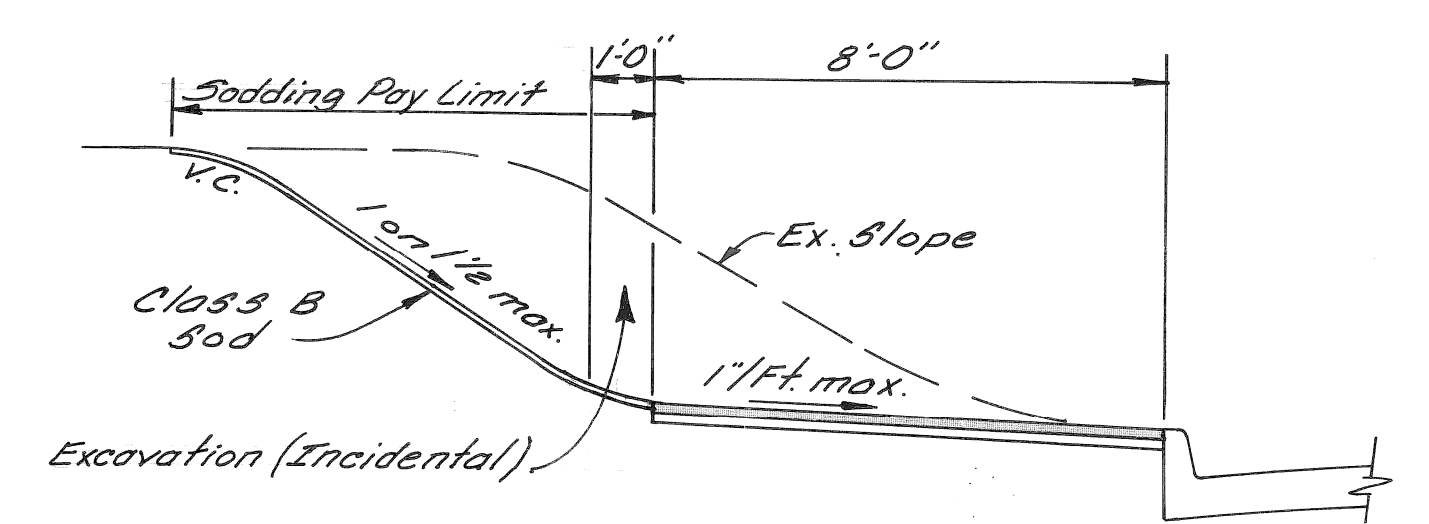
TYPICAL I
NO SCALE



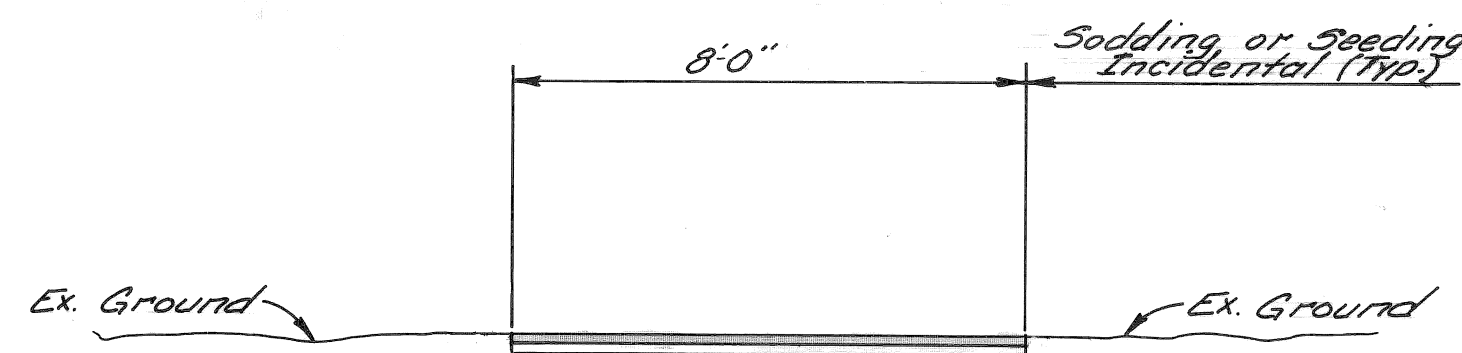
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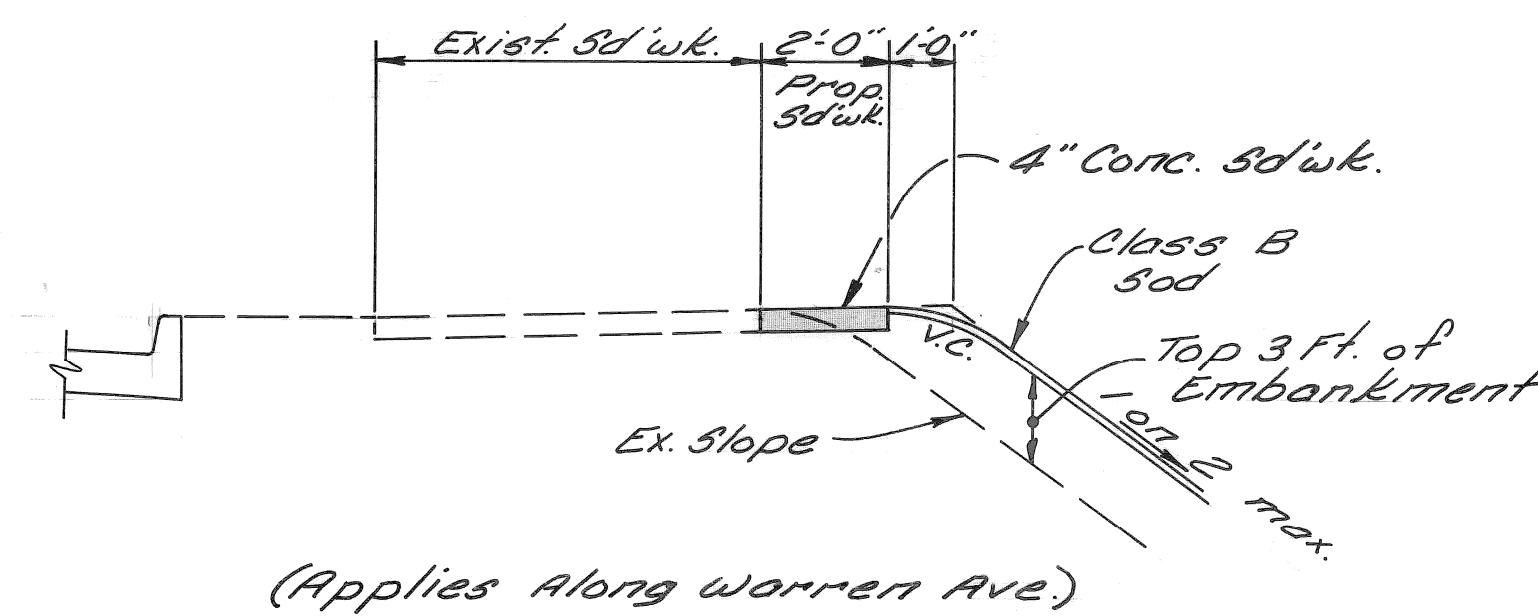
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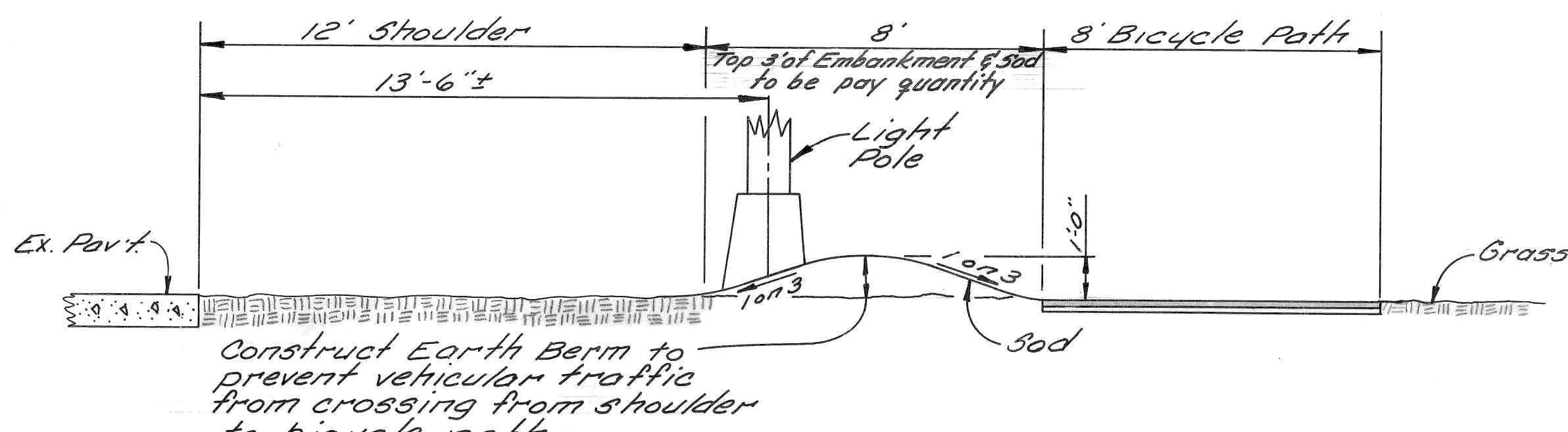
TYPICAL IV
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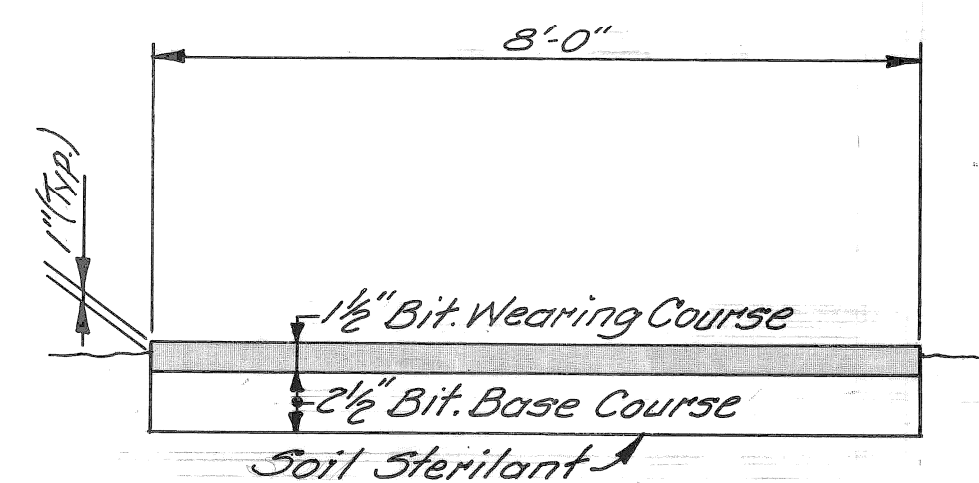
TYPICAL V
NO SCALE



TYPICAL VI
NO SCALE



DETAIL OF EARTH BERM CROSS-SECTION
NO SCALE



TYPICAL BICYCLE PATH CROSS-SECTION FOR TYPICAL I THROUGH TYPICAL V
NO SCALE

NOTE:
Bituminous Bicycle Path shall be 6" thick where the bicycle path is coincident with, or crosses, a vehicular roadway or driveway.

ALIGNMENT	
HORIZONTAL	VERTICAL
<ol style="list-style-type: none"> The location of the bike path as shown on these plans is only approximate. The exact location will be determined by the Project Engineer during construction. Alignment and curvature will be selected to minimize cuts and fill, to preserve vegetation and to maintain existing drainage. Minimum 20' Radius. 	<ol style="list-style-type: none"> The grade of the bike path will follow existing ground wherever possible. The maximum grade will be 5%, except up to 10% will be allowed over short stretches.

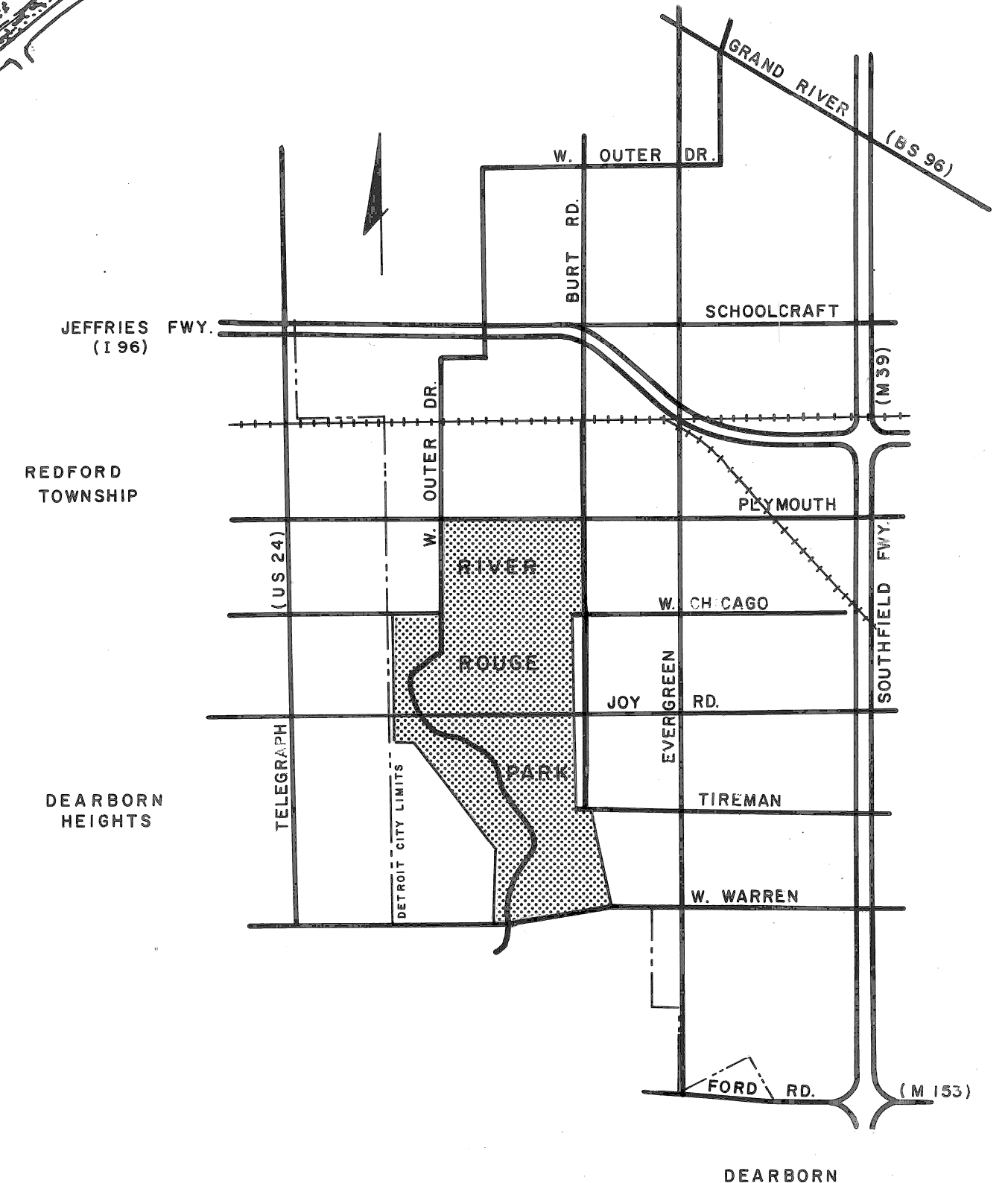
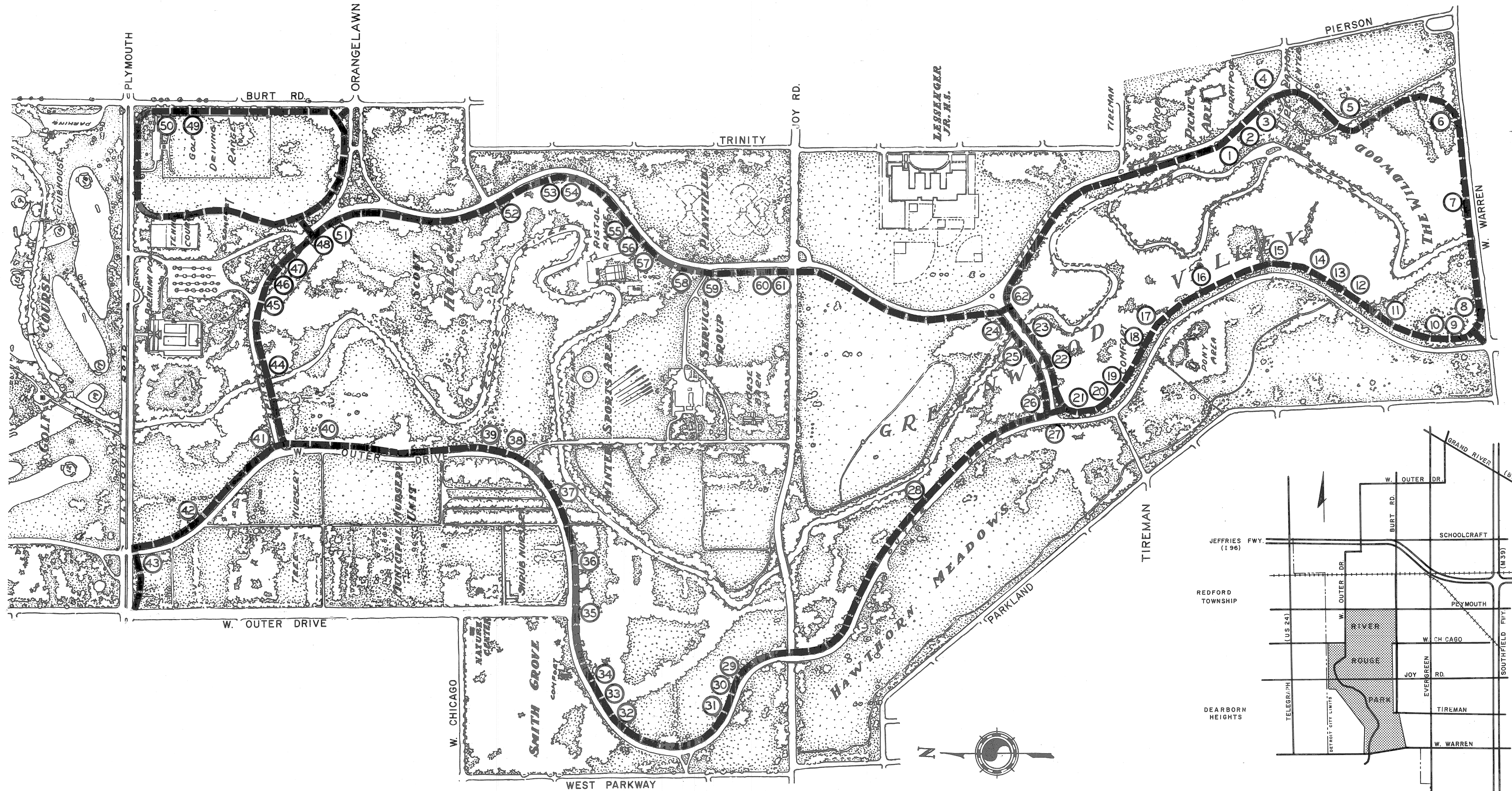
CROSS-SECTIONS
<ol style="list-style-type: none"> The bike path will be at existing elevations wherever possible The path may be tilted up to a maximum of one inch per foot, where necessary, as determined by the Engineer. Cut and fill slopes will be 1 on 2 desired maximum, 1 on 1 1/2 maximum.

NOTES
<ol style="list-style-type: none"> Fill req'd to construct earth berm & that req'd in Typical VI shall be a pay item. All earthwork req'd to provide a proper longitudinal grade or that req'd by typical sections shall be included in Bicycle Path Grading. Trimming of trees, bushes, etc. shall provide a clear height of 9'-0" above the bicycle path surface & a minimum side clearance of 18" on either side of the bicycle path surface. (Incidental)

COORD	DESCRIPTION	DRN	CRD	APVD	DATE

DESIGNED BY: <u>R.P.</u> DRAWN BY: <u>M.S.</u> TRACED BY: <u> </u> CHECKED BY: <u>B.P.</u>	APPROVED: <u> </u>
CITY OF DETROIT CITY ENGINEERING DIVISION E. P. M. D.	

TYPICAL CROSS-SECTIONS BIKEWAYS	SHEET <u>2</u> OF <u>4</u> SHEETS JOB No. <u>13141A</u> DRWG No. <u> </u> DATE <u>SEPT. 26, 1976</u>
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LEGEND

—— 8 FT. BICYCLE PATH

PLAN
Scale: 1" = 400'

④ ⑦ Guard rail ends shall be made flush with the post so exposed ends do not create a hazard.

CITY OF DETROIT CITY ENGINEERING DIVISION E.P.M.D.		W. OUTER DR. - SPINOZA DR. BIKEWAY IN RIVER ROUGE PARK		SHEET 3 OF 4 SHEETS JOB NO. 13141A DRWG NO. DATE SEPT. 26, 1976
DESIGNED BY A.E.P.	APPROVED:			
DRAWN BY M.P.				
TRACED BY				
CHECKED BY A.E.P.				
REFERENCE DRAWINGS				
COOR # DESCRIPTION DRN CK'D APVD DATE				
REVISIONS LOCATED BY COORDINATES ON SHEET				

QUANTITY SHEET - E

ITEMS	AS PER PLANS														AS CONSTRUCTED																	
	SHEET NO'S.														SHEET NO'S.																	
	TOTALS	UNITS															TOTALS	UNITS														
Removing Curb Face	140	L.F.															L.F.															
Removing Trees, 8"-18"	4	Each															Each															
Removing Trees, 19"-36"	2	Each															Each															
Removing Stumps, 8"-18"	2	Each															Each															
Removing Stumps, 19"-36"	3	Each															Each															
Removing Sidewalk	262	S.Y.															S.Y.															
Removing Beam Guard Rail	38	L.F.															L.F.															
Top 3 Ft. of Embankment (C.I.P.)	260	C.Y.															C.Y.															
Coarse Aggregate 6A	25	Tons															Tons															
Subbase	86	C.Y.															C.Y.															
12" Class "C" Culvert	52	L.F.															L.F.															
15" Class "C" Culvert	20	L.F.															L.F.															
Adjust Drainage Structure Covers	2	Each															Each															
4" Concrete Sidewalk	2510	S.F.															S.F.															
Beam Guard Rail - Type A	276	L.F.															L.F.															
Bituminous Bicycle Path	6610	Tons															Tons															
8 Ft. Bicycle Path Grading	338	Sta.															Sta.															
Class "B" Sodding	2624	S.Y.															S.Y.															
Soil Sterilant	30,045	S.Y.															S.Y.															
On the Job Training	1	Each															Each															
Mobilization	Lump	Sum															Lump	Sum														