

D.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
D.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

C.B.M. #2 Elev. 121.903 Arrow on hydrant  
N.W. Corner of Randolph and Larned  
C.B.M. #14 Elev. 124.087 Arrow on hydrant  
N.W. Corner of Jefferson and Randolph  
P.B.M. #28-254.A Elev. 120.645 City of Detroit  
Monument N.E. Corner of Randolph and Jefferson

C.B.M. #3 Elev. 123.296 Arrow on hydrant  
N.E. Corner of Brush and Larned

C.B.M. #4 Elev. 123.159 Arrow on hydrant  
N.E. Corner of Beaubien and Larned

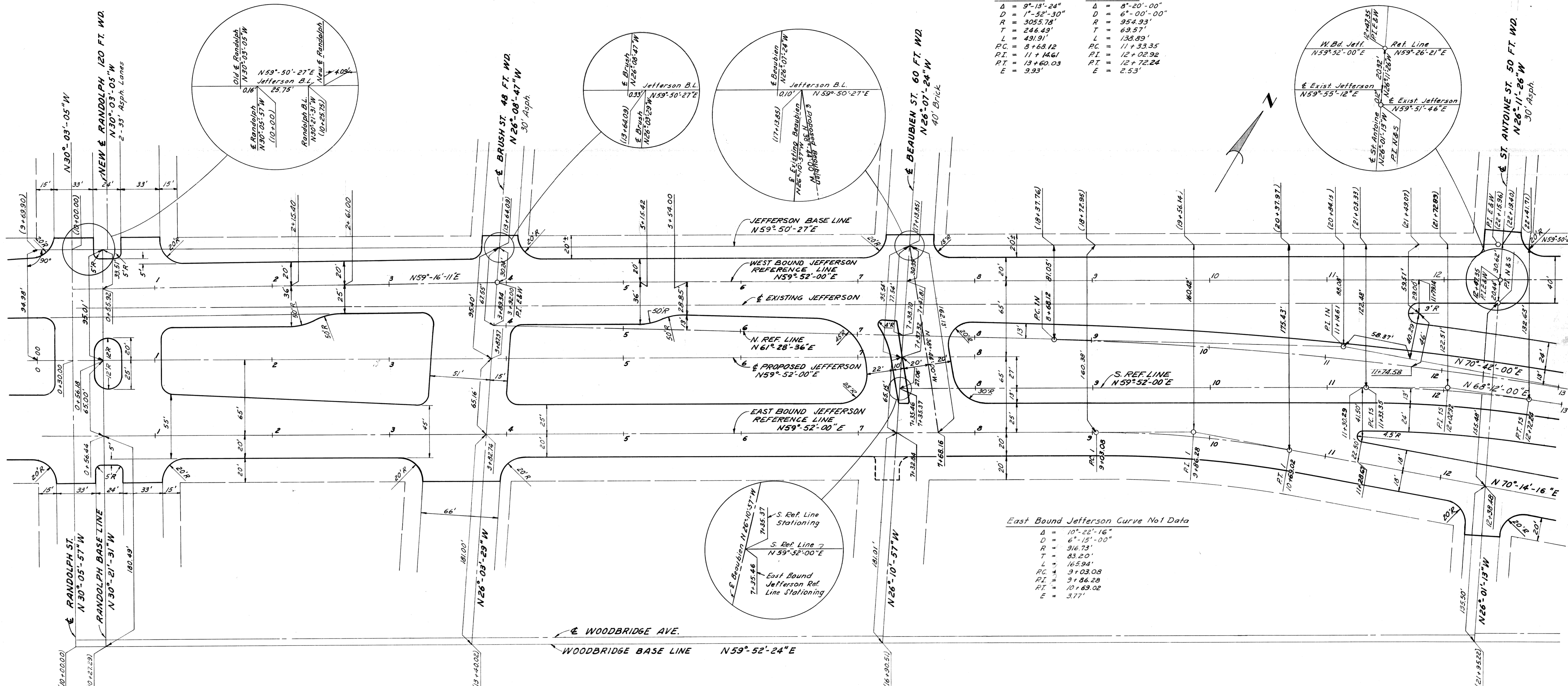
C.B.M. #5 Elev. 124.736 Arrow on hydrant  
N.E. Corner of St. Antoine and Larned

**CONSTRUCTION & CURVE DATA**

Curve 1N	Curve 1S
$\Delta = 9^{\circ}13'24''$	$\Delta = 8^{\circ}20'00''$
$D = 1^{\circ}52'30''$	$D = 6^{\circ}00'00''$
$R = 3055.78'$	$R = 954.93'$
$T = 244.49'$	$T = 69.57'$
$L = 491.91'$	$L = 138.89'$
$PC = 8+68.12$	$PC = 11+33.35$
$PI = 11+14.61$	$PI = 12+02.92$
$PT = 13+60.03$	$PT = 12+72.24$
$E = 9.93'$	$E = 2.53'$

**East Bound Jefferson Curve No.1 Data**

$\Delta = 10^{\circ}22'16''$
$D = 6^{\circ}15'00''$
$R = 916.73'$
$T = 83.20'$
$L = 165.94'$
$PC = 9+03.08$
$PI = 9+86.28$
$PT = 10+69.02$
$E = 3.77'$



**NOTE**  
Stations shown in brackets, thus ( ), refer to the Base Line to which they are shown.  
Bench Marks are on City of Detroit Datum.  
Curbs at Streets are 10'R except as noted.

I-375 ON JEFFERSON  
RANDOLPH TO ST. ANTOINE

**DETAILS OF EXPRESSWAY ALIGNMENT**  
0+00 TO 13+00

Scale 1" = 40'

Revised 9-28-59

FILE NO.	STATE	FEDERAL	SHEET NO.
AK 380	PROJECT	PROJECT	NO.
STENCIL			

Drawn by A.M.S.  
Redrawn by G.K. 10-1-58  
Checked by M.C.C. 10-15-58

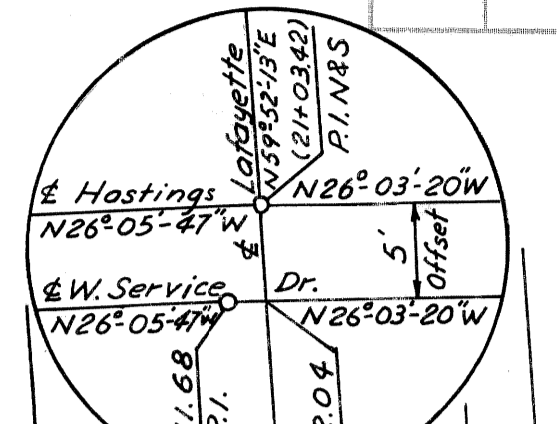
DATE	BY
4/75	BARNES
5/75	PLANNING
5/75	WATTS
5/75	WATTS

CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

Revised 9-22-59 F.A.C.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				



C.B.M. #5 Elev. 124.736 Arrow on hydrant  
N.E. corner of St. Antoine and Larned.

C.B.M. #15 Elev. 119.115 Arrow on hydrant  
N.W. corner of St. Antoine and Congress.

C.B.M. #16 Elev. 119.133 Arrow on hydrant  
N.W. corner of St. Antoine and Fort.

C.B.M. #17 Elev. 121.348 Arrow on hydrant  
S.W. corner of St. Antoine and Lafayette.  
C.B.M. #33 Elev. 121.741 Arrow on hydrant  
S.W. corner of Lafayette and Hastings.

**CONST. & CURVE DATA**  
**Curve 2N**  
 $\Delta = 96^{\circ}-47'-40''$   
 $D = 15^{\circ}-00'-00''$   
 $R = 381.97'$   
 $T = 430.18'$   
 $L = 645.30'$   
 $P.C. = 15+86.55$   
 $P.I. = 20+16.73$   
 $P.T. = 22+31.85$   
 $E = 193.32'$   
 Superelevation = 0.05'/ft.

**Curve 2S**  
 $\Delta = 94^{\circ}-17'-40''$   
 $D = 15^{\circ}-00'-00''$   
 $R = 381.97'$   
 $T = 411.73'$   
 $L = 628.63'$   
 $P.C. = 16+03.22$   
 $P.I. = 20+14.95$   
 $P.T. = 22+31.85$   
 $E = 179.65'$   
 Superelevation = 0.05'/ft.

**Off Ramp Curve Data**  
 $\Delta = 6^{\circ}-41'-59''$   
 $D = 4^{\circ}-00'-00''$   
 $R = 1432.39'$   
 $T = 83.84'$   
 $L = 167.49'$   
 $P.C. = 24+60.63$   
 $P.I. = 25+44.47$   
 $P.T. = 26+28.12$   
 $E = 2.45'$

**Mistake Lane Curve Data**  
 $\Delta = 5^{\circ}-14'-46''$   
 $D = 2^{\circ}-00'-00''$   
 $R = 2864.79'$   
 $T = 131.24'$   
 $L = 262.31'$   
 $P.C. = 28+18.75$   
 $P.I. = 29+49.99$   
 $P.T. = 30+81.06$   
 $E = 3.00'$

**Off Ramp Curve Data**  
 $\Delta = 6^{\circ}-41'-52''$   
 $D = 5^{\circ}-00'-00''$   
 $R = 1145.92'$   
 $T = 67.05'$   
 $L = 133.96'$   
 $P.C. = 31+97.28$   
 $P.I. = 32+64.33$   
 $P.T. = 33+31.24$   
 $E = 1.96'$

**On Ramp Curve Data**  
 $\Delta = 9^{\circ}-50'-48''$   
 $D = 7^{\circ}-30'-00''$   
 $R = 763.94'$   
 $T = 65.81'$   
 $L = 131.29'$   
 $P.C. = 25+19.83$   
 $P.I. = 25+85.64$   
 $P.T. = 26+51.12$   
 $E = 2.83'$

**On Ramp Curve Data**  
 $\Delta = 8^{\circ}-30'-00''$   
 $D = 4^{\circ}-00'-00''$   
 $R = 1432.39'$   
 $T = 106.44'$   
 $L = 212.50'$   
 $P.C. = 30+26.05$   
 $P.I. = 31+32.49$   
 $P.T. = 32+38.55$   
 $E = 3.95'$

C.B.M. #7 Elev. 121.334 Arrow on hydrant  
S.E. corner of Rivard and Larned.

C.B.M. #32 Elev. 119.240 Arrow on hydrant  
N.E. corner of Rivard and Congress.

C.B.M. #31 Elev. 120.934 Arrow on hydrant  
S.E. corner of Rivard and Fort.

C.B.M. #30 Elev. 122.292 Arrow on hydrant  
S.E. corner of Rivard and Lafayette.

**NOTE**  
 Stations shown in brackets, thus ( ), refer to Hastings St. Survey Stationing.  
 Bench Marks are on City of Detroit Datum.  
 Curbs of Streets and Avenues are 15'R except as noted.  
 Curbs of Alleys are 5'R except as noted.

Scale 1" = 40'

**DETAILS OF EXPRESSWAY ALIGNMENT**  
20+00 TO 33+00

FILE NO.	PROJECT	PROJECT	SHEET NO.	TOTAL SHEETS

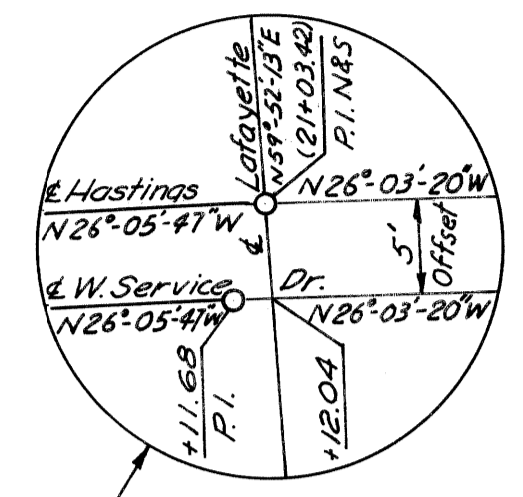
DATE	6/58
BY	M.C. CHEN
PLAN DESIGNED	
PLAN DRAWN	
CHECKED	
SCALE	
SOILS	
RECOMMENDED FOR APPROVAL	

PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

**Off Ramp Curve Data**

$\Delta = 6^{\circ}-41'-52''$   
 $D = 5^{\circ}-00'-00''$   
 $R = 1145.92'$   
 $T = 67.05'$   
 $L = 133.96'$   
 $P.C. = 31+97.28$   
 $P.I. = 32+64.33$   
 $P.T. = 33+31.24$   
 $E = 1.96'$

C.B.M. #17 Elev. 121.348 Arrow on hydrant  
 S.W. corner of St. Antoine and Lafayette.  
 C.B.M. #18 Elev. 122.386 Arrow on hydrant  
 W. side of St. Antoine, 20' N. of Monroe.  
 C.B.M. #33 Elev. 121.741 Arrow on hydrant  
 S.W. corner of Lafayette and Hastings.



**Off Ramp Curve Data**

$\Delta = 7^{\circ}-43'-44''$   
 $D = 3^{\circ}-00'-00''$   
 $R = 1909.86'$   
 $T = 129.01'$   
 $L = 257.63'$   
 $P.C. = 38+50.76$   
 $P.I. = 39+79.77$   
 $P.T. = 41+08.39$   
 $E = 4.35'$

C.B.M. #34 Elev. 123.249 Arrow on hydrant  
 E. side of Hastings on the S. line of Clinton  
 Extended.

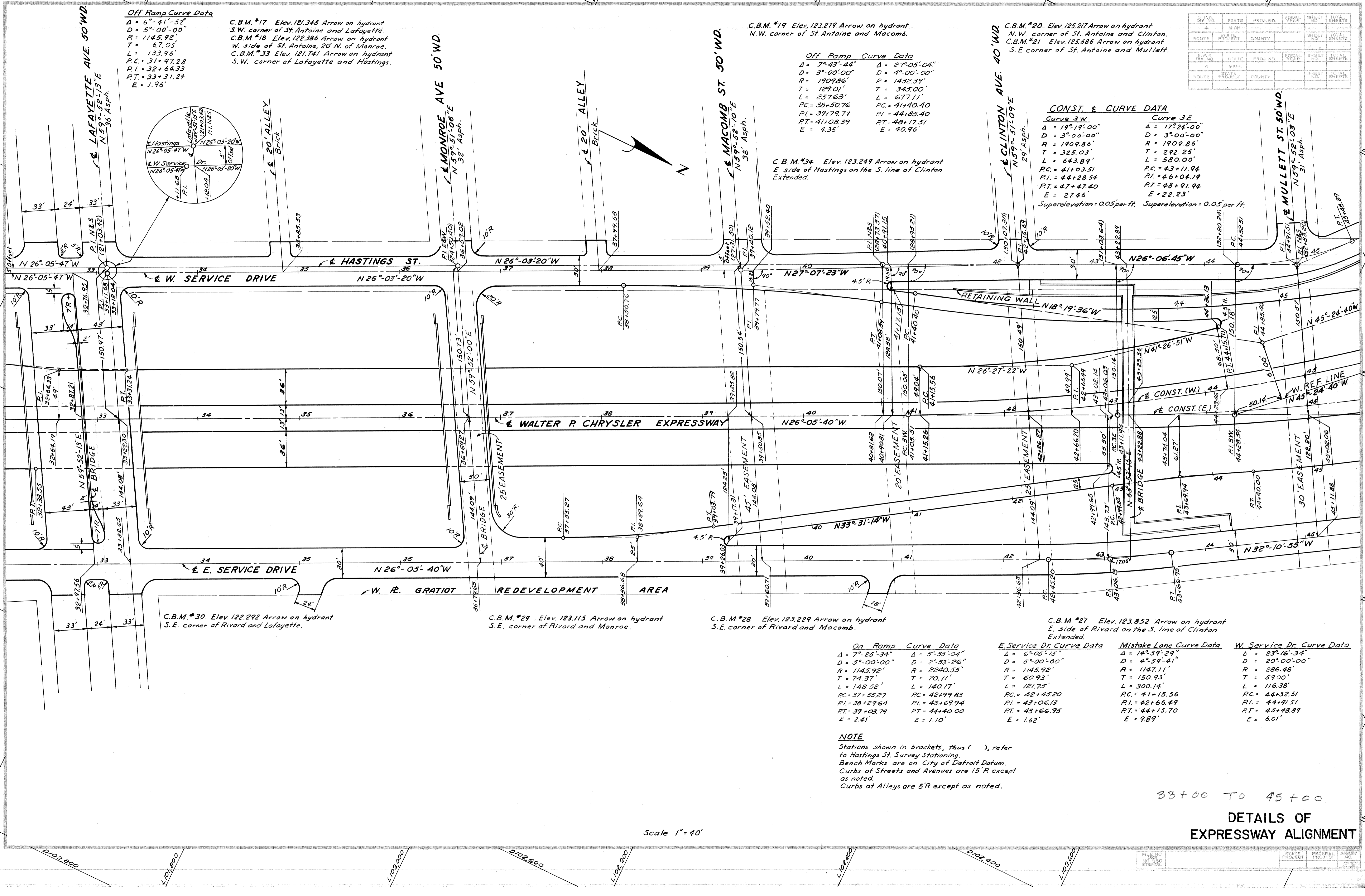
**CONST. & CURVE DATA**

**Curve 3W**  
 $\Delta = 19^{\circ}-19'-00''$   
 $D = 3^{\circ}-00'-00''$   
 $R = 1909.86'$   
 $T = 325.03'$   
 $L = 643.89'$   
 $P.C. = 41+03.51$   
 $P.I. = 44+28.54$   
 $P.T. = 47+47.40$   
 $E = 27.46'$

**Curve 3E**  
 $\Delta = 17^{\circ}-24'-00''$   
 $D = 3^{\circ}-00'-00''$   
 $R = 1909.86'$   
 $T = 292.25'$   
 $L = 580.00'$   
 $P.C. = 43+11.94$   
 $P.I. = 46+04.19$   
 $P.T. = 48+91.94$   
 $E = 22.23'$

Superelevation = 0.05 per ft. Superelevation = 0.05 per ft.

SHEET NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NOS.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
4					



**On Ramp Curve Data**

$\Delta = 7^{\circ}-25'-34''$   
 $D = 5^{\circ}-00'-00''$   
 $R = 1145.92'$   
 $T = 74.37'$   
 $L = 148.52'$   
 $P.C. = 37+55.27$   
 $P.I. = 38+29.64$   
 $P.T. = 39+03.79$   
 $E = 2.41'$

**E. Service Dr. Curve Data**

$\Delta = 6^{\circ}-05'-15''$   
 $D = 5^{\circ}-00'-00''$   
 $R = 1145.92'$   
 $T = 60.93'$   
 $L = 121.75'$   
 $P.C. = 42+45.20$   
 $P.I. = 43+06.13$   
 $P.T. = 43+66.95$   
 $E = 1.62'$

**Mistake Lane Curve Data**

$\Delta = 14^{\circ}-59'-29''$   
 $D = 4^{\circ}-59'-41''$   
 $R = 1147.11'$   
 $T = 150.93'$   
 $L = 300.14'$   
 $P.C. = 41+15.56$   
 $P.I. = 42+66.49$   
 $P.T. = 44+15.70$   
 $E = 9.89'$

**W. Service Dr. Curve Data**

$\Delta = 23^{\circ}-16'-34''$   
 $D = 20^{\circ}-00'-00''$   
 $R = 286.48'$   
 $T = 59.00'$   
 $L = 116.38'$   
 $P.C. = 44+32.51$   
 $P.I. = 44+91.51$   
 $P.T. = 45+48.89$   
 $E = 6.01'$

**NOTE**  
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 Curbs at Streets and Avenues are 15'R except as noted.  
 Curbs at Alleys are 5'R except as noted.

Scale 1" = 40'

33+00 TO 45+00  
**DETAILS OF EXPRESSWAY ALIGNMENT**

SHEET NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NOS.	TOTAL SHEETS
23	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
4					

C.B.M. #21 Elev. 125.686 Arrow on hydrant  
S.E. corner of St. Antoine and Mullett.

**CONST. & CURVE DATA**

**Curve 3W**  
 $\Delta = 19^{\circ}19'00''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 325.03'$   
 $L = 643.89'$   
 $PC = 41+03.51$   
 $PI = 44+28.54$   
 $PT = 47+47.40$   
 $E = 27.46'$

**Curve 3E**  
 $\Delta = 17^{\circ}24'00''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 292.25'$   
 $L = 580.00'$   
 $PC = 43+11.94$   
 $PI = 46+04.19$   
 $PT = 48+91.94$   
 $E = 22.23'$

Superelevation = 0.05 per ft. Superelevation = 0.05 per ft.

**Exit Ramp Curve Data**

$\Delta = 27^{\circ}05'04''$   
 $D = 4^{\circ}00'00''$   
 $R = 1432.39'$   
 $T = 345.00'$   
 $L = 677.11'$   
 $PC = 41+40.40$   
 $PI = 44+85.40$   
 $PT = 48+17.51$   
 $E = 40.96'$

**West Service Dr. Curve Data**

$\Delta = 23^{\circ}16'34''$   
 $D = 20^{\circ}00'00''$   
 $R = 286.48'$   
 $T = 59.00'$   
 $L = 116.38'$   
 $PC = 44+32.51$   
 $PI = 44+91.51$   
 $PT = 45+48.89$   
 $E = 6.01'$

C.B.M. #23 Elev. 125.272 Arrow on hydrant  
S.E. corner of Madison and Gratiot.

C.B.M. #25 Elev. 125.029 Arrow on hydrant  
E. side of Hastings on the S. line of Madison  
Extended.

C.B.M. #24 Elev. 127.040 Arrow on hydrant  
S.W. corner of Hastings and Gratiot.

**Curve 5ES**

$\Delta = 0^{\circ}48'50''$   
 $D = 2^{\circ}00'00''$   
 $R = 2864.79'$   
 $T = 20.35'$   
 $L = 40.69'$   
 $E = 0.07'$   
 $PC = 21+44.38$   
 $PI = 21+64.73$   
 $PT = 21+85.08$

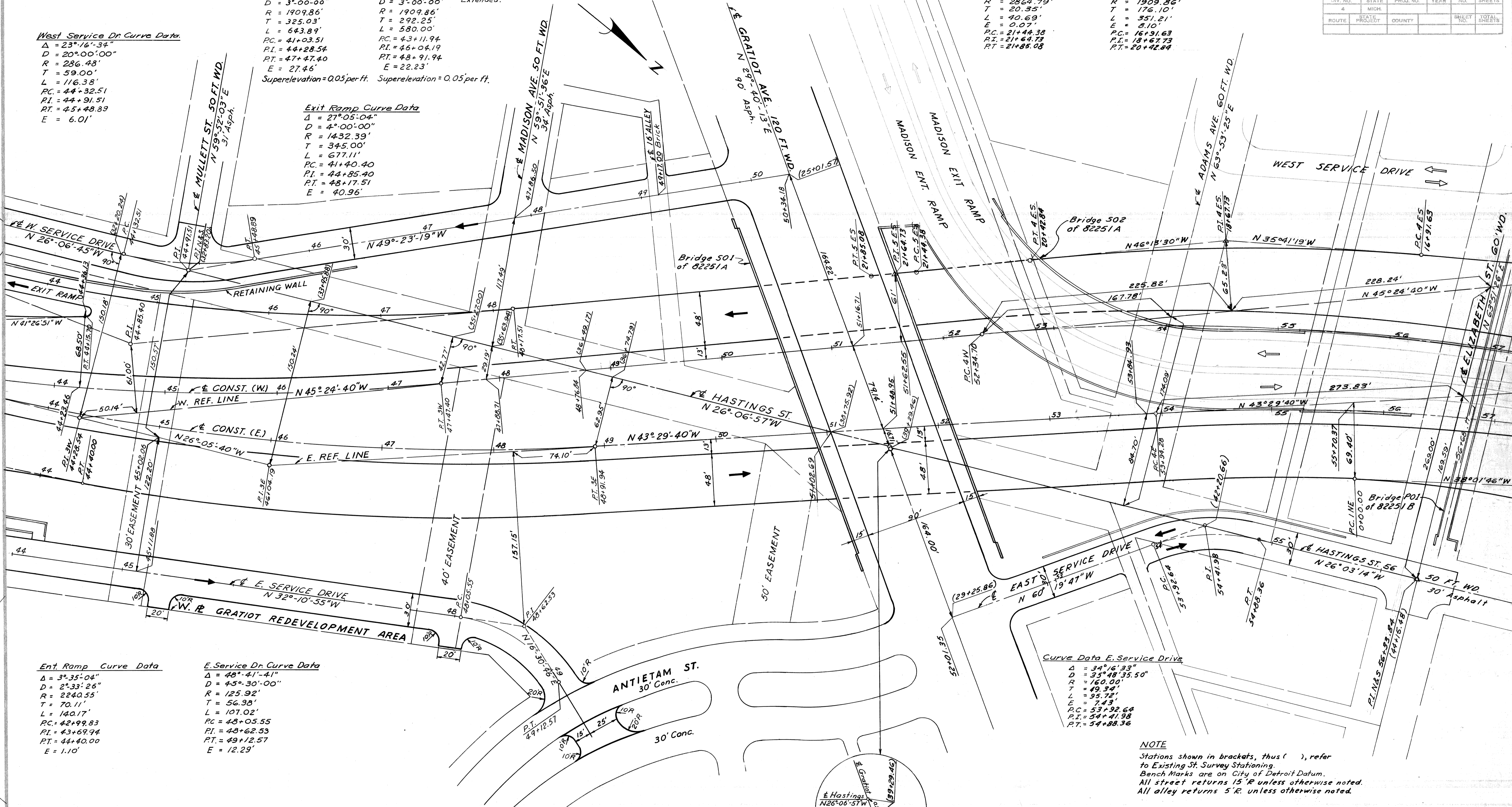
**Curve 4ES**

$\Delta = 10^{\circ}32'11''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 176.10'$   
 $L = 351.21'$   
 $E = 8.10'$   
 $PC = 16+91.63$   
 $PI = 18+67.73$   
 $PT = 20+42.84$

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI			1	1

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI			1	1



**Ent. Ramp Curve Data**

$\Delta = 3^{\circ}35'04''$   
 $D = 2^{\circ}33'26''$   
 $R = 2240.55'$   
 $T = 70.11'$   
 $L = 140.17'$   
 $PC = 42+99.83$   
 $PI = 43+69.74$   
 $PT = 44+40.00$   
 $E = 1.10'$

**E. Service Dr. Curve Data**

$\Delta = 48^{\circ}41'41''$   
 $D = 4^{\circ}30'00''$   
 $R = 125.92'$   
 $T = 56.98'$   
 $L = 107.02'$   
 $PC = 48+05.55$   
 $PI = 48+62.33$   
 $PT = 49+12.57$   
 $E = 12.29'$

**Curve Data E. Service Drive**

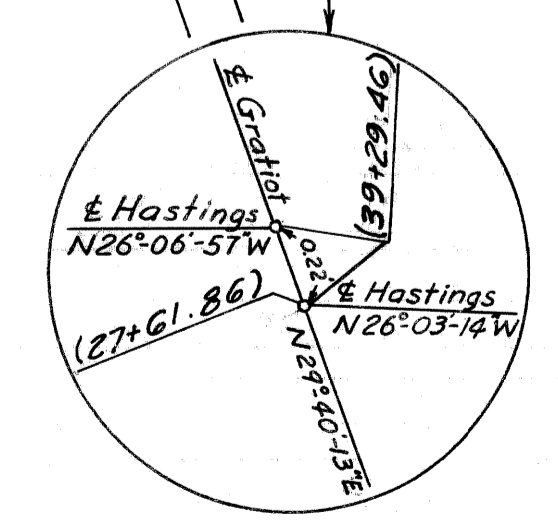
$\Delta = 34^{\circ}16'33''$   
 $D = 3^{\circ}48'35.50''$   
 $R = 160.00'$   
 $T = 49.34'$   
 $L = 95.72'$   
 $E = 7.43'$   
 $PC = 53+92.64$   
 $PI = 54+41.98$   
 $PT = 54+88.36$

**NOTE**

Stations shown in brackets, thus ( ), refer to Existing St. Survey Stationing.  
 Bench Marks are on City of Detroit Datum.  
 All street returns 15' R unless otherwise noted.  
 All alley returns 5' R unless otherwise noted.

C.B.M. #26 Elev. 124.340 Arrow on hydrant  
S.E. corner of Rivard and Antietam.

C.B.M. #52 Elev. 132.380 Arrow on hydrant  
S.E. corner of Maple and Gratiot.



Scale 1" = 40'

**DETAILS OF EXPRESSWAY ALIGNMENT STA. 44+00 TO STA. 57+00**

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI			1	1

Complete - Needs Review GDN/2-15-60

DATE	BY
3/58	BARNES
5/58	CALABIANO
8/58	M.C. CHAN
8/58	M.C. CHAN

PLANS PREPARED BY  
 CITY OF DETROIT  
 DEPARTMENT OF PUBLIC WORKS  
 CITY ENGINEERS OFFICE  
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
		Wayne	Detroit		
D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

C.B.M. #23 Elev. 125.272 Arrow on hydrant S.E. corner Madison and Gratiot.  
 C.B.M. #24 Elev. 127.040 Arrow on hydrant S.W. corner Hastings and Gratiot.

C.B.M. #54 Elev. 126.234 Arrow on hydrant W. side of St. Antoine 25' N. of Beacon.

C.B.M. #55 Elev. 125.958 Arrow on hydrant NE. corner Adams and St. Antoine.  
 C.B.M. #56 Elev. 130.186 Arrow on hydrant NW. corner St. Antoine and Elizabeth.

C.B.M. #57 Elev. 134.162 Arrow on hydrant SW. corner St. Antoine and Columbia.  
 C.B.M. #58 Elev. 136.382 Arrow on hydrant W. side of St. Antoine 35' S. of Montcalm.

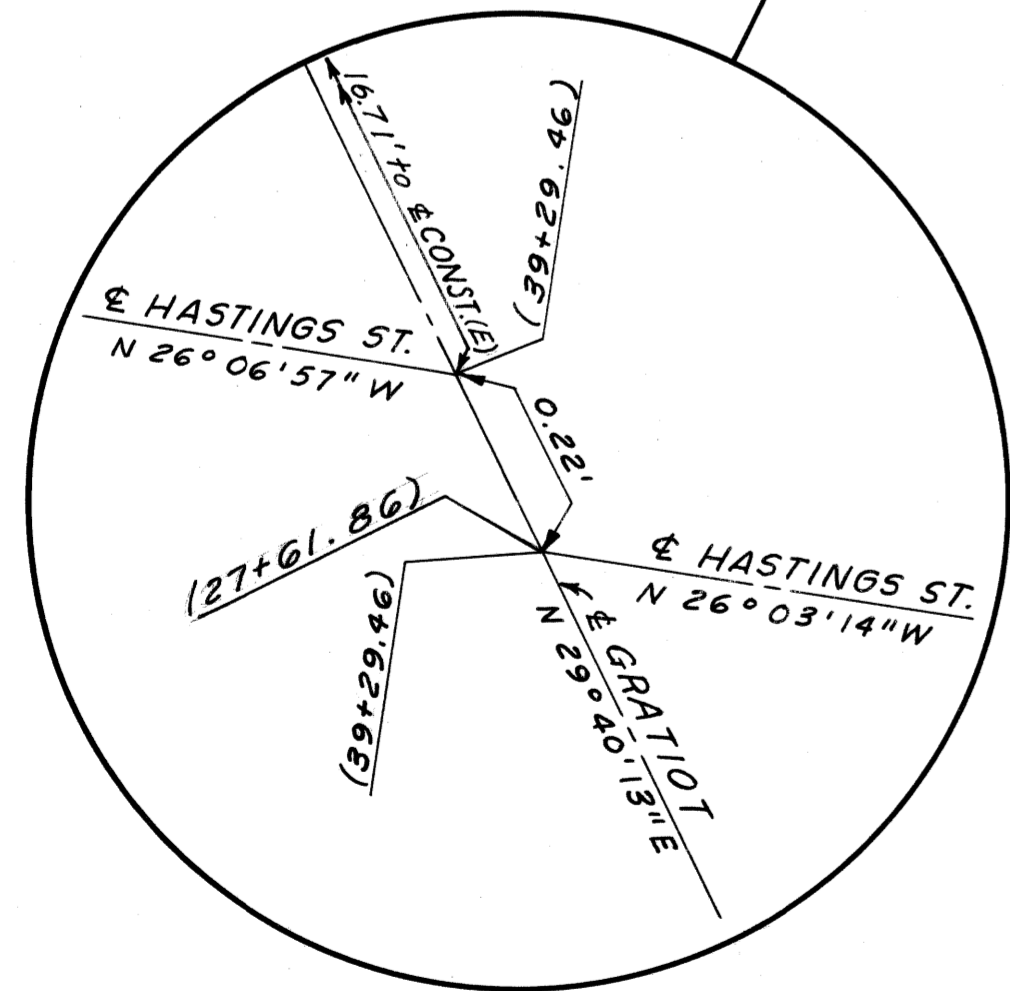
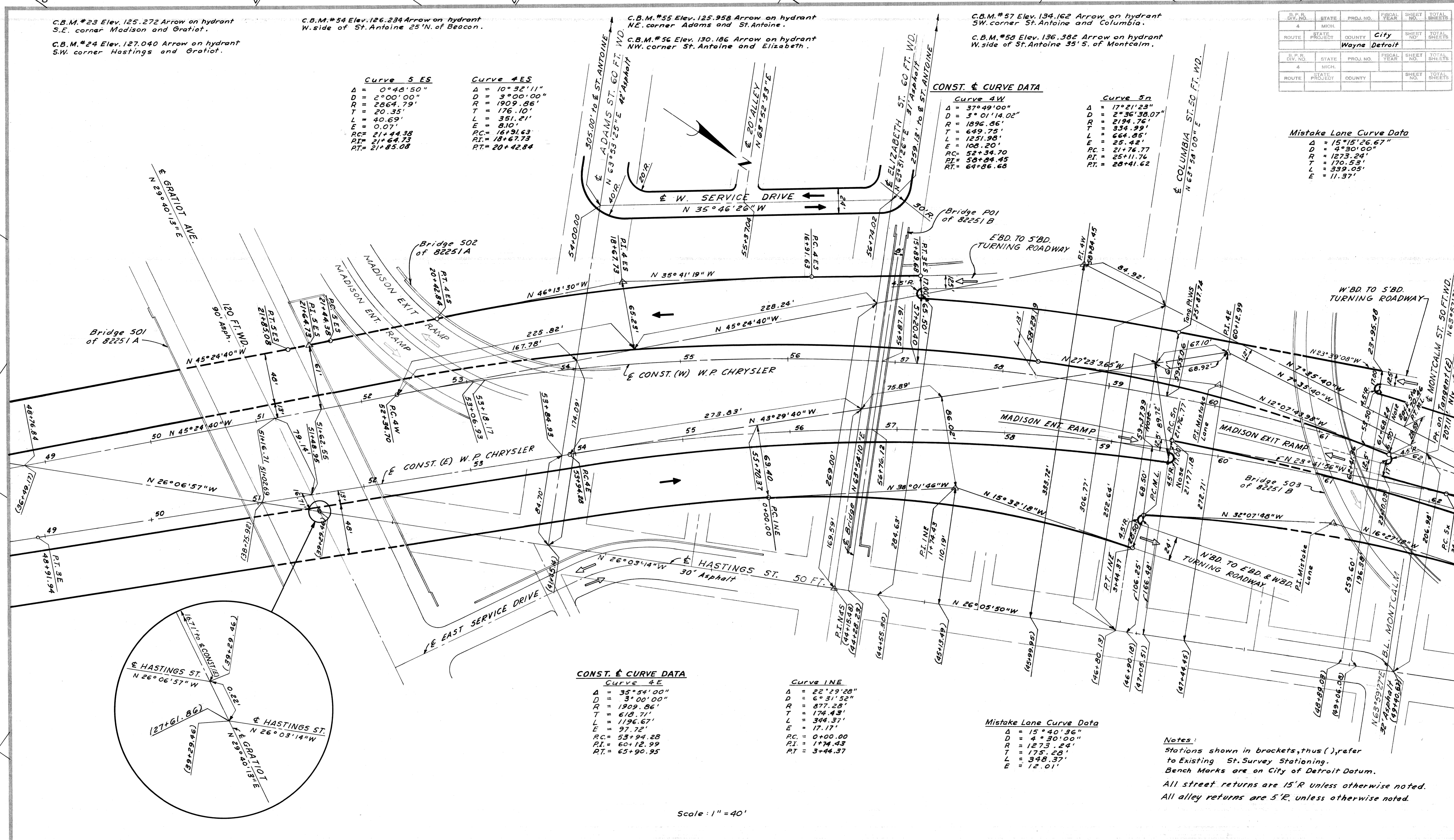
**Curve 5 ES**  
 Δ = 0°48'50"  
 D = 2°00'00"  
 R = 2864.79'  
 T = 20.35'  
 L = 40.69'  
 E = 0.07'  
 PC = 21+44.38  
 PI = 21+64.73  
 PT = 21+85.08

**Curve #ES**  
 Δ = 10°32'11"  
 D = 3°00'00"  
 R = 1909.86'  
 T = 176.10'  
 L = 351.21'  
 E = 810'  
 PC = 16+31.63  
 PI = 18+67.73  
 PT = 20+42.84

**CONST. & CURVE DATA**  
**Curve 4W**  
 Δ = 37°49'00"  
 D = 3°01'14.02"  
 R = 1896.86'  
 T = 649.75'  
 L = 1251.98'  
 E = 108.20'  
 PC = 52+34.70  
 PI = 58+84.45  
 PT = 64+86.68

**Curve 5n**  
 Δ = 17°21'23"  
 D = 2°36'38.07"  
 R = 2194.76'  
 T = 334.99'  
 L = 664.85'  
 E = 25.42'  
 PC = 21+76.77  
 PI = 25+11.74  
 PT = 28+41.62

**Mistake Lane Curve Data**  
 Δ = 15°15'26.67"  
 D = 4°30'00"  
 R = 1273.24'  
 T = 170.53'  
 L = 339.05'  
 E = 11.37'



**CONST. & CURVE DATA**  
**Curve 4E**  
 Δ = 35°54'00"  
 D = 3°00'00"  
 R = 1909.86'  
 T = 618.71'  
 L = 1196.67'  
 E = 97.72'  
 PC = 53+94.28  
 PI = 60+12.99  
 PT = 65+90.95

**Curve 1NE**  
 Δ = 22°29'28"  
 D = 4°31'52"  
 R = 877.28'  
 T = 174.43'  
 L = 344.37'  
 E = 17.17'  
 PC = 0+00.00  
 PI = 1+74.43  
 PT = 3+44.37

**Mistake Lane Curve Data**  
 Δ = 15°40'36"  
 D = 4°30'00"  
 R = 1273.24'  
 T = 175.28'  
 L = 348.37'  
 E = 12.01'

**Notes:**  
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 Bench Marks are on City of Detroit Datum.  
 All street returns are 15'R. unless otherwise noted.  
 All alley returns are 5'R. unless otherwise noted.

Scale: 1" = 40'

C.B.M. #51 Elev. 135.514 Arrow on hydrant SW. corner Rivard and Gratiot.  
 C.B.M. #52 Elev. 132.380 Arrow on hydrant SE. corner Maple and Gratiot.  
 C.B.M. #91 Elev. 129.105 Arrow on hydrant NW. corner Hastings and Adams.  
 C.B.M. #90 Elev. 136.551 Arrow on hydrant NW. corner Hastings and Columbia.  
 C.B.M. #49 Elev. 140.432 Arrow on hydrant NE. corner Rivard and Montcalm.  
 C.B.M. #89 Elev. 137.838 Arrow on hydrant NE. corner Hastings and Montcalm.

**DETAILS OF EXPRESSWAY ALIGNMENT STA. 49+00 TO STA. 62+00**

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
NO. 380			17	

C.B.M. #54 Elev. 126.234 Arrow on hydrant  
W. side of St. Antoine 25' N. of Beacon.  
C.B.M. #53 Elev. 125.159 Arrow on hydrant  
W. side of St. Antoine 50' N. of Madison.  
C.B.M. #23 Elev. 125.272 Arrow on hydrant  
S.E. corner Madison and Gratiot.

C.B.M. #55 Elev. 125.958 Arrow on hydrant  
N.E. corner Adams and St. Antoine.  
C.B.M. #56 Elev. 130.186 Arrow on hydrant  
N.W. corner St. Antoine and Elizabeth.

C.B.M. #57 Elev. 134.162 Arrow on hydrant  
S.W. corner St. Antoine and Columbia.  
C.B.M. #58 Elev. 136.382 Arrow on hydrant  
W. side of St. Antoine 35' S. of Montcalm.

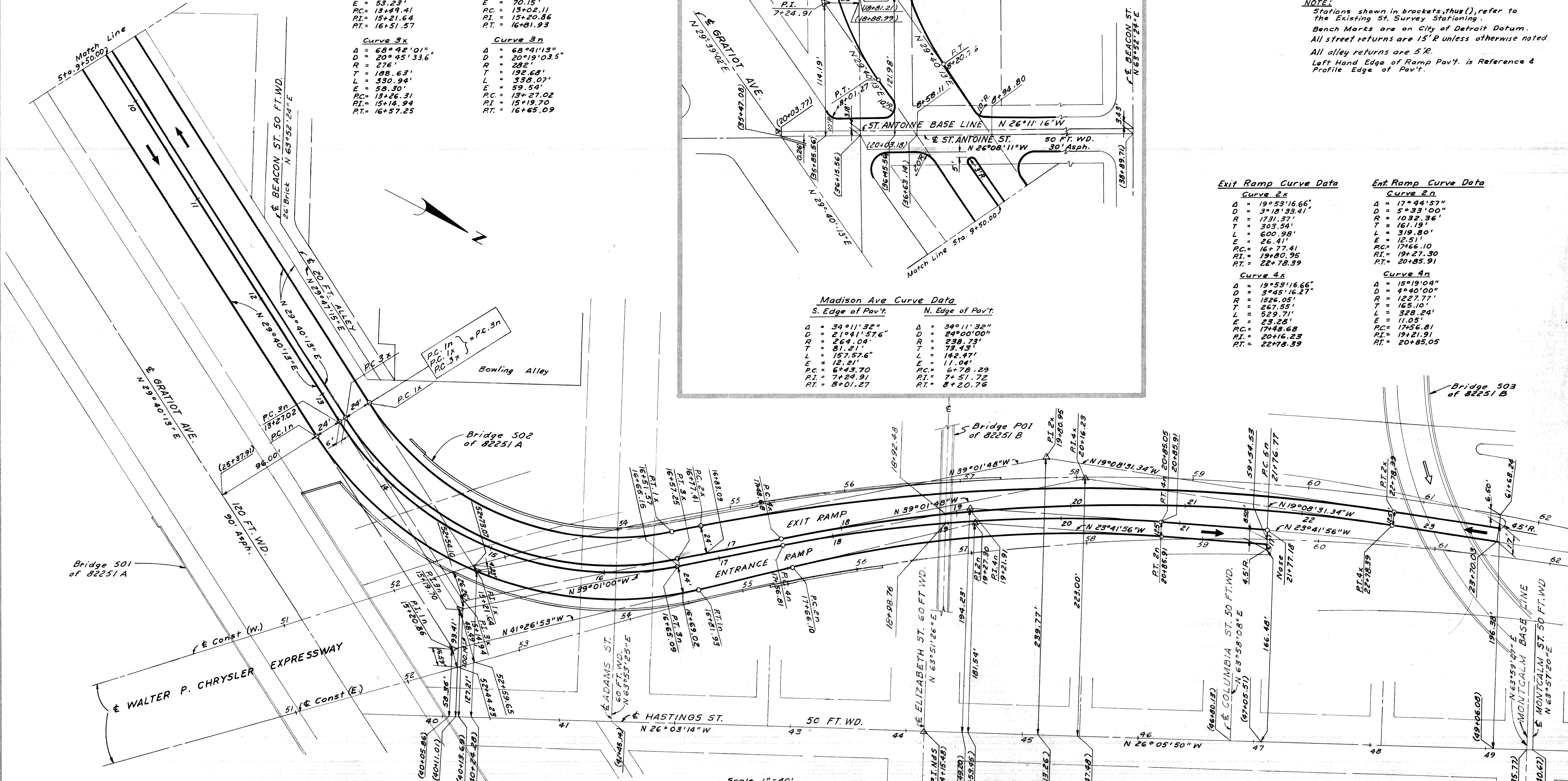
D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
A	MICH.				
ROUTE	STATE	PROJECT	CITY	SHEET NO.	TOTAL SHEETS
			Wayne Detroit		
D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
A	MICH.				
ROUTE	STATE	PROJECT	CITY	SHEET NO.	TOTAL SHEETS
			Wayne Detroit		

Off Ramp Curve Data		On Ramp Curve Data	
<b>Curve 1x</b>		<b>Curve 1n</b>	
$\Delta = 68^\circ 42' 01''$	$D = 22^\circ 44' 11.1''$	$\Delta = 71^\circ 07' 06''$	$D = 18^\circ 43' 26.8''$
$R = 252'$	$T = 172.23'$	$R = 306'$	$T = 218.74'$
$L = 302.16'$	$E = 53.23'$	$L = 379.82'$	$E = 70.15'$
$PC = 13+49.41$	$PI = 15+21.64$	$PC = 13+02.11$	$PI = 15+20.86$
$PT = 16+51.57$		$RT = 16+81.93$	
<b>Curve 3x</b>		<b>Curve 3n</b>	
$\Delta = 68^\circ 42' 01''$	$D = 20^\circ 45' 33.6''$	$\Delta = 68^\circ 41' 13''$	$D = 20^\circ 19' 03.5''$
$R = 276'$	$T = 188.63'$	$R = 282'$	$T = 192.68'$
$L = 330.94'$	$E = 58.30'$	$L = 338.07'$	$E = 59.54'$
$PC = 13+26.31$	$PI = 15+14.94$	$PC = 13+27.02$	$PI = 15+19.70$
$PT = 16+57.25$		$RT = 16+65.09$	

Madison Ave Curve Data	
S. Edge of Pav't.	N. Edge of Pav't.
$\Delta = 34^\circ 11' 32''$	$\Delta = 34^\circ 11' 32''$
$D = 2^\circ 41' 57.6''$	$D = 2^\circ 40' 00''$
$R = 264.04'$	$R = 238.73'$
$T = 81.21'$	$T = 73.43'$
$L = 157.576'$	$L = 142.47'$
$E = 12.21'$	$E = 11.04'$
$PC = 6+43.70$	$PC = 6+78.29$
$PI = 7+24.91$	$PI = 7+51.72$
$PT = 8+01.27$	$PT = 8+20.76$

Exit Ramp Curve Data		Ent. Ramp Curve Data	
<b>Curve 2x</b>		<b>Curve 2n</b>	
$\Delta = 19^\circ 53' 16.66''$	$D = 3^\circ 18' 33.41''$	$\Delta = 17^\circ 44' 57''$	$D = 5^\circ 33' 00''$
$R = 1731.37'$	$T = 303.54'$	$R = 1032.36'$	$T = 161.19'$
$L = 600.98'$	$E = 26.41'$	$L = 319.80'$	$E = 12.51'$
$PC = 16+77.41$	$PI = 19+80.95$	$PC = 17+66.10$	$PI = 19+27.30$
$PT = 22+78.39$		$RT = 20+85.91$	
<b>Curve 4x</b>		<b>Curve 4n</b>	
$\Delta = 19^\circ 53' 16.66''$	$D = 3^\circ 45' 16.27''$	$\Delta = 15^\circ 19' 04''$	$D = 4^\circ 40' 00''$
$R = 1526.05'$	$T = 267.55'$	$R = 1227.77'$	$T = 165.10'$
$L = 529.71'$	$E = 23.28'$	$L = 328.24'$	$E = 11.05'$
$PC = 17+48.68$	$PI = 20+16.23$	$PC = 17+56.81$	$PI = 19+21.91$
$PT = 22+78.39$		$RT = 20+85.05$	

**NOTE:**  
Stations shown in brackets, thus ( ), refer to the Existing St. Survey Stationing.  
Bench Marks are on City of Detroit Datum.  
All street returns are 15' R unless otherwise noted.  
Left Hand Edge of Ramp Pav't. is Reference & Profile Edge of Pav't.



C.B.M. #24 Elev. 127.040 Arrow on hydrant  
S.W. corner Hastings and Gratiot.  
C.B.M. #52 Elev. 132.380 Arrow on hydrant  
S.E. corner Maple and Gratiot.

C.B.M. #50 Elev. 138.208 Arrow on hydrant  
N.E. corner Rivard and Gratiot.  
C.B.M. #51 Elev. 135.514 Arrow on hydrant  
S.W. corner Rivard and Gratiot.

C.B.M. #90 Elev. 136.551 Arrow on hydrant  
N.W. corner Hastings and Columbia.  
C.B.M. #91 Elev. 129.105 Arrow on hydrant  
N.W. corner Hastings and Adams.

C.B.M. #49 Elev. 140.432 Arrow on hydrant  
N.E. corner Rivard and Montcalm.  
C.B.M. #89 Elev. 137.838 Arrow on hydrant  
N.E. corner Hastings and Montcalm.

**ALIGNMENT OF  
MADISON AVE. ENTRANCE & EXIT RAMP** 51+00 TO 62+00

Scale 1"=40'

FILE NO.	DATE	BY	CHKD.	SYMBOL

S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
		WAYNE	DETROIT		
S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

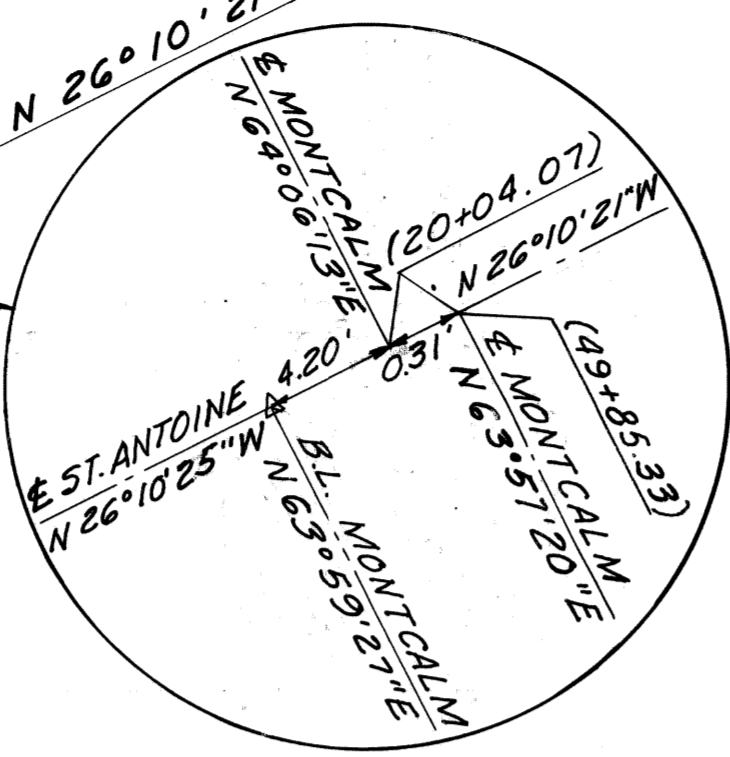
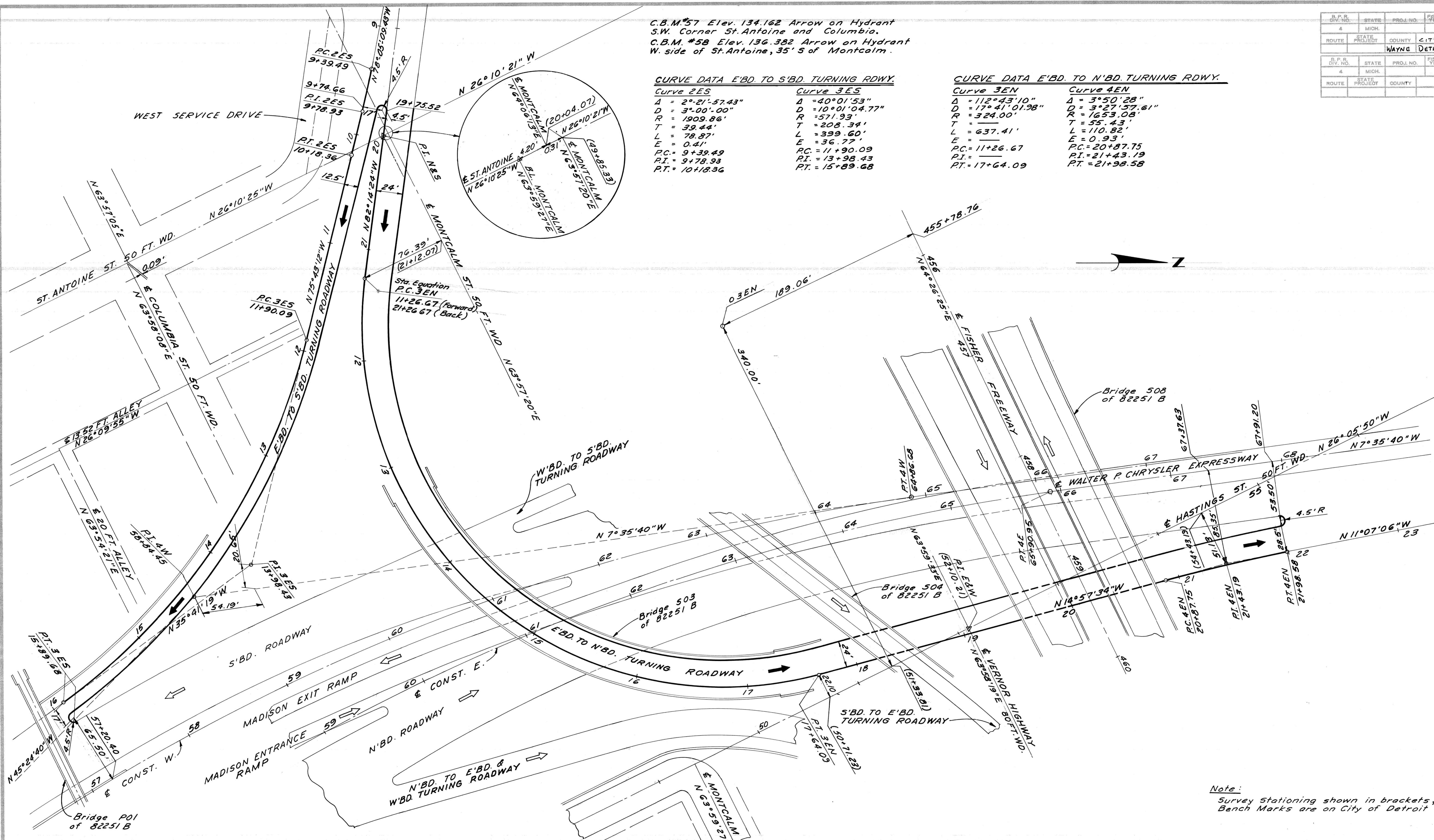
C.B.M. #57 Elev. 134.162 Arrow on Hydrant S.W. Corner St. Antoine and Columbia.  
 C.B.M. #58 Elev. 136.382 Arrow on Hydrant W. side of St. Antoine, 35' S of Montcalm.

**CURVE DATA E'BD. TO S'BD. TURNING RDWY.**

Curve 2ES	Curve 3ES
$\Delta = 2^{\circ}21'57.43''$	$\Delta = 40^{\circ}01'53''$
$D = 3^{\circ}00'.00''$	$D = 10^{\circ}01'04.77''$
$R = 1909.86'$	$R = 571.93'$
$T = 39.44'$	$T = 208.34'$
$L = 78.87'$	$L = 399.60'$
$E = 0.41'$	$E = 36.77'$
$PC = 9+39.49$	$PC = 11+90.09$
$PI = 9+78.93$	$PI = 13+98.43$
$PT = 10+18.36$	$PT = 15+89.68$

**CURVE DATA E'BD. TO N'BD. TURNING RDWY.**

Curve 3EN	Curve 4EN
$\Delta = 112^{\circ}43'10''$	$\Delta = 3^{\circ}50'28''$
$D = 17^{\circ}41'01.98''$	$D = 3^{\circ}27'57.61''$
$R = 324.00'$	$R = 1653.08'$
$T = 55.43'$	$T = 110.82'$
$L = 637.41'$	$L = 0.93'$
$E =$	$E = 20+87.75$
$PC = 11+26.67$	$PI = 21+43.19$
$PI =$	$PT = 21+98.58$
$PT = 17+64.09$	



Note: Survey Stationing shown in brackets, thus ( ). Bench Marks are on City of Detroit Datum.

C.B.M. #87 Elev. 141.388 Arrow on Hydrant N.W. corner Hastings and Napoleon.  
 C.B.M. #88 Elev. 139.113 Arrow on Hydrant N.W. Corner Hastings and Vernor Highway.  
 C.B.M. #89 Elev. 137.838 Arrow on Hydrant N.E. Corner Hastings and Montcalm.

Scale: 1" = 40'

AT FISHER FWY INTERCHANGE  
 ALIGNMENT OF  
 E'BD. TO N'BD. & E'BD. TO S'BD.  
 TURNING ROADWAYS

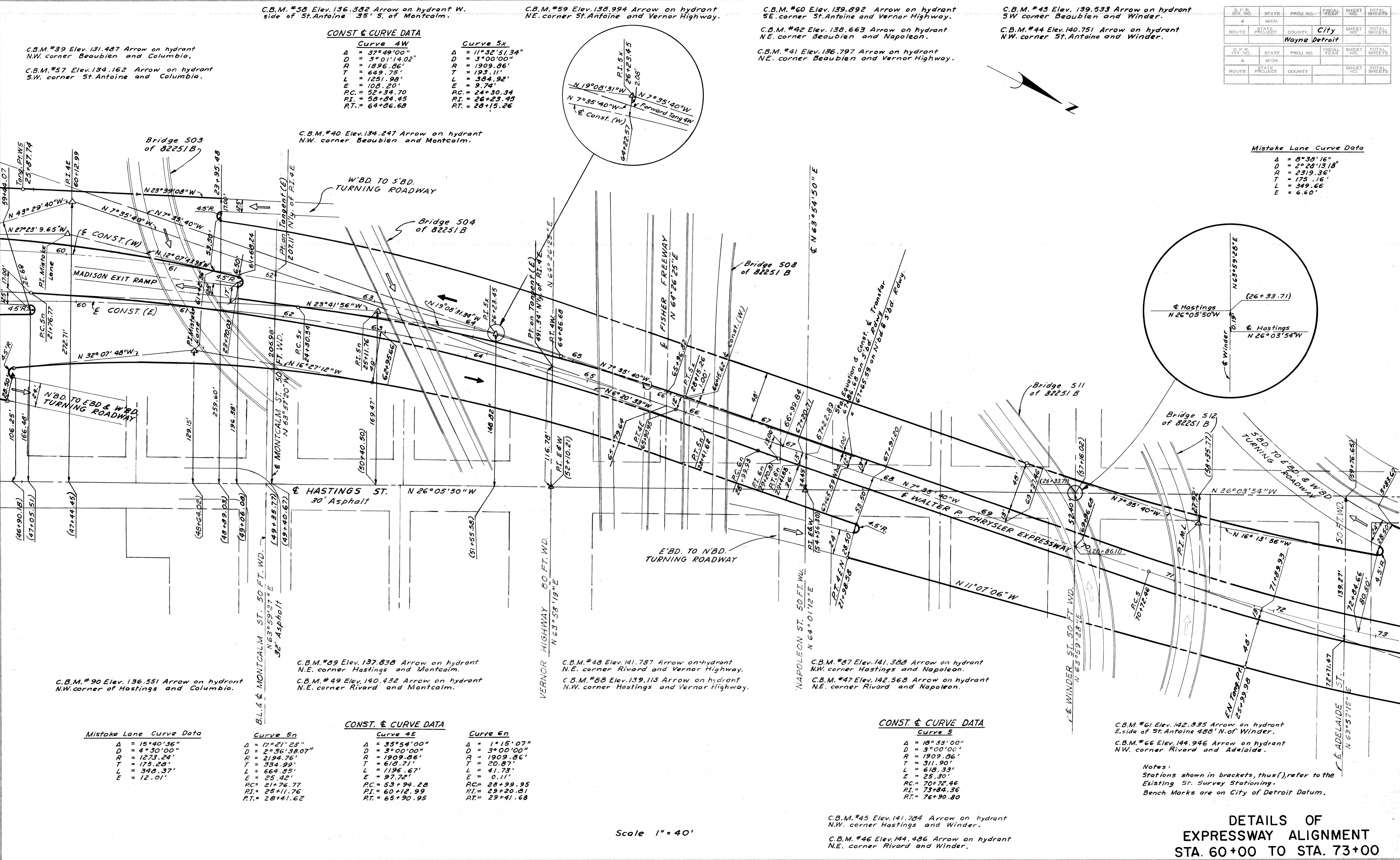
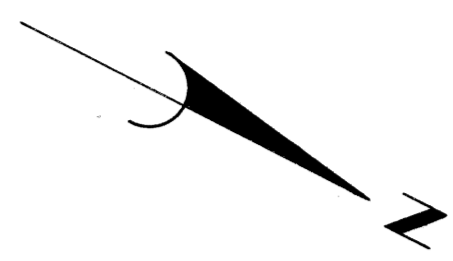
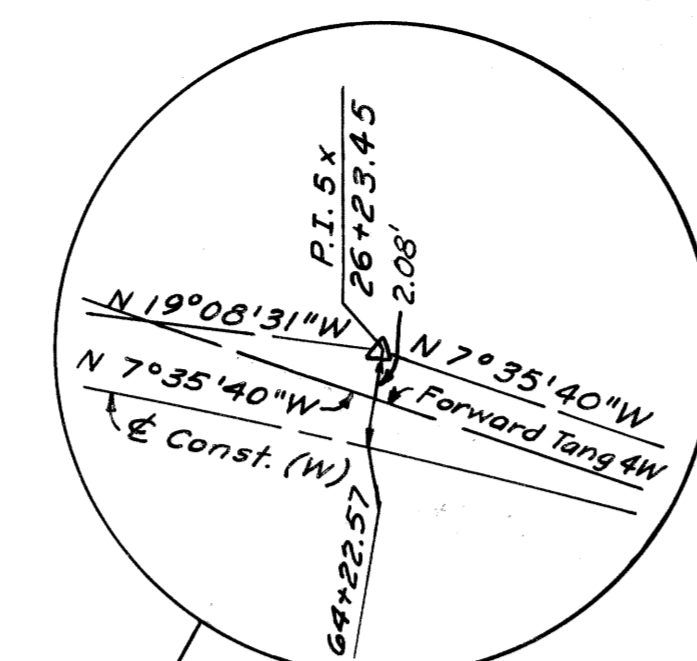
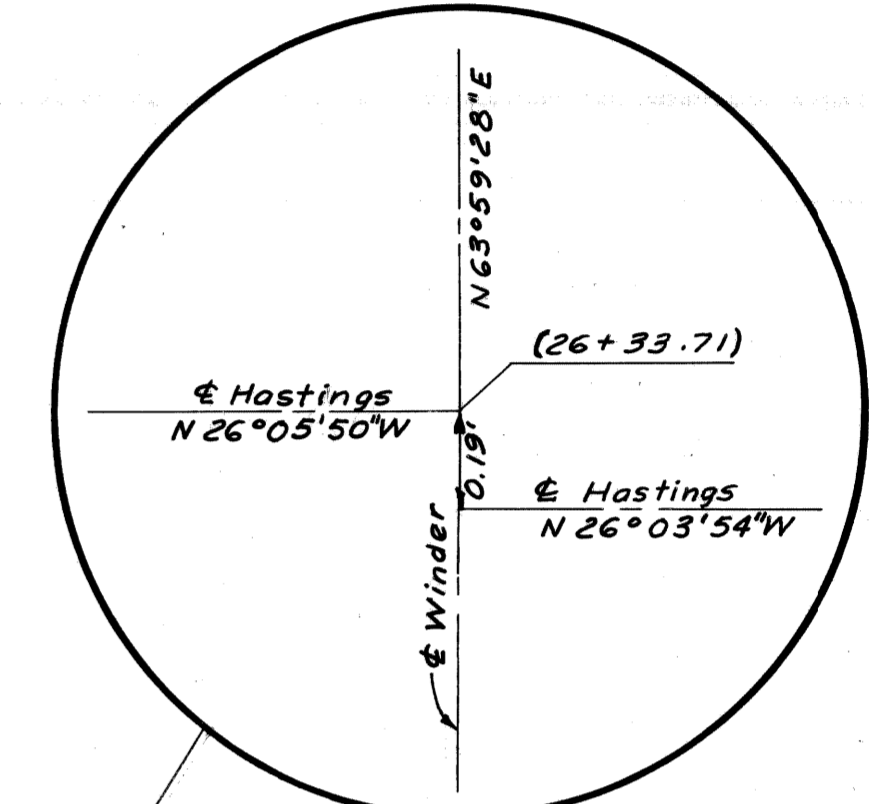
57+00 TO 68+00

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.

B.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH				
B.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH				

Mistake Lane Curve Data

A	= 8°35'16"
D	= 2°28'13.18"
R	= 2319.36'
L	= 175.16'
E	= 349.66'
E	= 6.60'



C.B.M. #58 Elev. 136.382 Arrow on hydrant W. side of St. Antoine 35' S. of Montcalm.

C.B.M. #59 Elev. 138.994 Arrow on hydrant NE. corner St. Antoine and Vernor Highway.

C.B.M. #60 Elev. 139.892 Arrow on hydrant SE. corner St. Antoine and Vernor Highway.

C.B.M. #45 Elev. 139.533 Arrow on hydrant SW corner Beaubien and Winder.

C.B.M. #42 Elev. 138.663 Arrow on hydrant NE. corner Beaubien and Napoleon.

C.B.M. #44 Elev. 140.751 Arrow on hydrant NW. corner St. Antoine and Winder.

C.B.M. #41 Elev. 136.797 Arrow on hydrant NE. corner Beaubien and Vernor Highway.

**CONST. & CURVE DATA**

Curve 4W		Curve 5x	
A	= 37°49'00"	A	= 11°32'51.34"
D	= 3°01'14.02"	D	= 3°00'00"
R	= 1896.86'	R	= 1909.86'
T	= 649.75'	T	= 193.11'
L	= 1251.98'	L	= 384.92'
E	= 108.20'	E	= 9.74'
PC	= 52+34.70	PC	= 24+30.34
PT	= 58+04.45	PT	= 26+23.45
RT	= 64+06.68	RT	= 28+15.26

C.B.M. #39 Elev. 131.487 Arrow on hydrant N.W. corner Beaubien and Columbia.

C.B.M. #57 Elev. 134.162 Arrow on hydrant S.W. corner St. Antoine and Columbia.

C.B.M. #40 Elev. 134.247 Arrow on hydrant N.W. corner Beaubien and Montcalm.

C.B.M. #39 Elev. 137.838 Arrow on hydrant N.E. corner Hastings and Montcalm.

C.B.M. #49 Elev. 140.432 Arrow on hydrant N.E. corner Rivard and Montcalm.

C.B.M. #48 Elev. 141.787 Arrow on hydrant N.E. corner Rivard and Vernor Highway.

C.B.M. #88 Elev. 139.113 Arrow on hydrant N.W. corner Hastings and Vernor Highway.

C.B.M. #87 Elev. 141.388 Arrow on hydrant N.W. corner Hastings and Napoleon.

C.B.M. #47 Elev. 142.568 Arrow on hydrant N.E. corner Rivard and Napoleon.

C.B.M. #61 Elev. 142.835 Arrow on hydrant E. side of St. Antoine 488' N. of Winder.

C.B.M. #66 Elev. 144.946 Arrow on hydrant NW. corner Rivard and Adelaide.

Notes:  
Stations shown in brackets, thus ( ), refer to the Existing St. Survey Stationing.  
Bench Marks are on City of Detroit Datum.

**Mistake Lane Curve Data**

A	= 15°40'36"
D	= 4°30'00"
R	= 1273.24'
T	= 175.28'
L	= 348.37'
E	= 12.01'

**Curve 5n**

A	= 17°21'23"
D	= 2°36'38.07"
R	= 2194.76'
T	= 334.99'
L	= 664.85'
E	= 25.42'
PC	= 24+76.77
PT	= 25+11.76
RT	= 28+41.62

**CONST. & CURVE DATA**

Curve 4E		Curve 6n	
A	= 35°54'00"	A	= 1°15'07"
D	= 3°00'00"	D	= 3°00'00"
R	= 1909.86'	R	= 1909.86'
T	= 618.71'	T	= 20.87'
L	= 1196.67'	L	= 41.73'
E	= 97.72'	E	= 0.11'
PC	= 53+94.28	PC	= 28+99.95
PT	= 60+12.99	PT	= 29+20.81
RT	= 65+90.95	RT	= 29+41.68

**CONST. & CURVE DATA**

Curve 5	
A	= 18°33'00"
D	= 3°00'00"
R	= 1909.86'
T	= 311.90'
L	= 618.33'
E	= 25.30'
PC	= 70+72.46
PT	= 73+04.36
RT	= 76+90.80

C.B.M. #45 Elev. 141.784 Arrow on hydrant N.W. corner Hastings and Winder.

C.B.M. #46 Elev. 144.486 Arrow on hydrant N.E. corner Rivard and Winder.

Scale 1" = 40'

**DETAILS OF EXPRESSWAY ALIGNMENT STA. 60+00 TO STA. 73+00**

FILE NO.	STATE	FEDERAL PROJECT	SHEET NO.
NO. 380	MICH		72



B.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

B.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Notes:  
 Stations shown in brackets, thus ( ), refer to Existing St. Survey Stationing.  
 Bench Marks are on City of Detroit Datum.

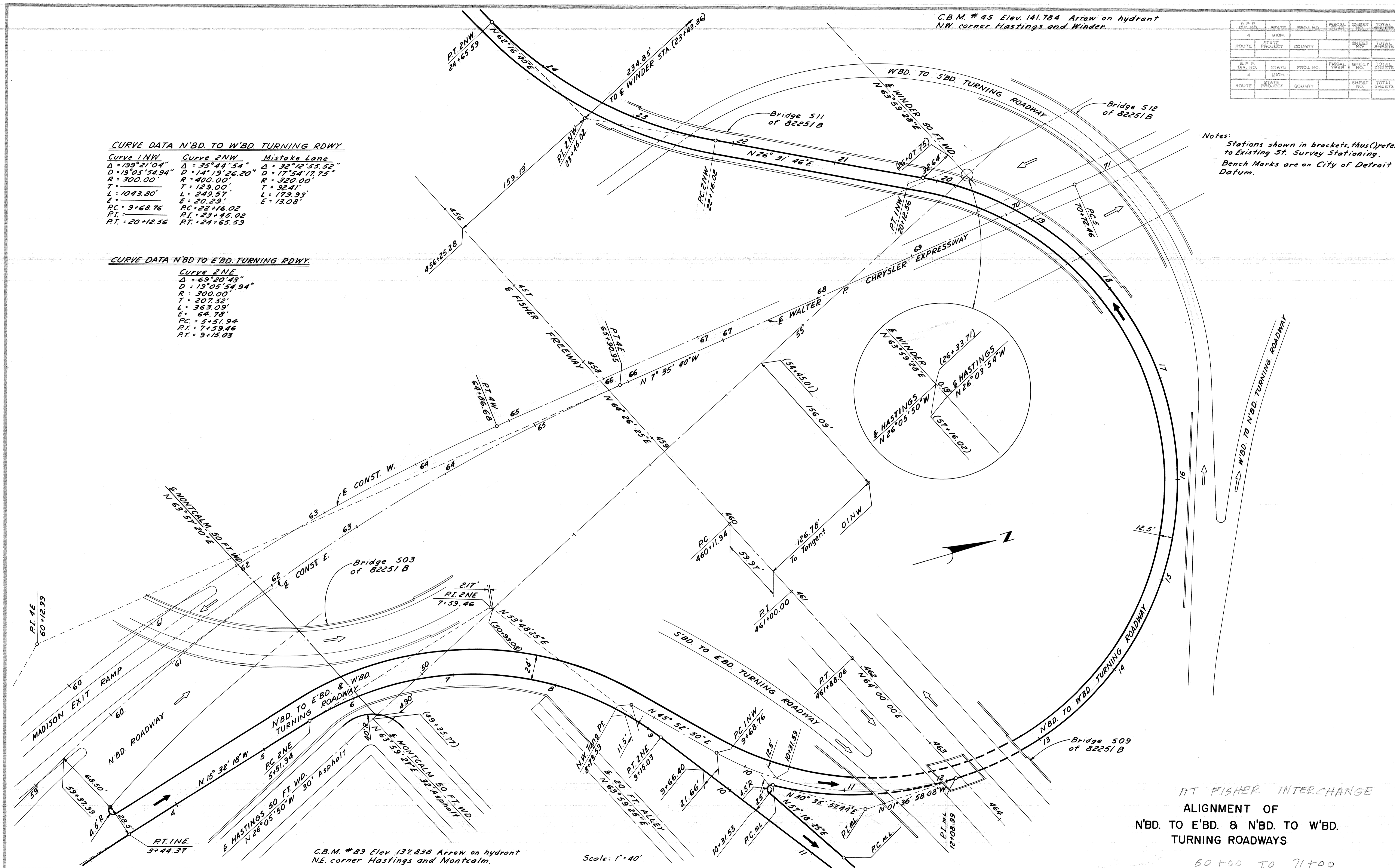
CURVE DATA N'BD. TO W'BD. TURNING RDWY

Curve 1 NW	Curve 2 NW	Mistake Lane
$\Delta = 139^{\circ} 21' 04''$	$\Delta = 35^{\circ} 44' 54''$	$\Delta = 32^{\circ} 12' 55.52''$
$D = 19^{\circ} 05' 54.94''$	$D = 14^{\circ} 19' 26.20''$	$D = 17^{\circ} 54' 17.75''$
$R = 300.00'$	$R = 400.00'$	$R = 320.00'$
$T = 1043.80'$	$T = 129.00'$	$T = 92.41'$
$L = 1043.80'$	$L = 249.57'$	$L = 179.93'$
$E = 9+68.76$	$E = 20.29'$	$E = 13.08'$
$PC = 9+68.76$	$PC = 22+16.02$	
$PI = 20+12.56$	$PI = 23+45.02$	
$PT = 20+12.56$	$PT = 24+65.59$	

CURVE DATA N'BD TO E'BD. TURNING RDWY

Curve 2 NE

$\Delta = 63^{\circ} 20' 43''$
$D = 19^{\circ} 05' 54.94''$
$R = 300.00'$
$T = 207.52'$
$L = 363.09'$
$E = 64.78'$
$PC = 5+51.94$
$PI = 7+59.46$
$PT = 9+15.03$



C.B.M. # 89 Elev. 137.838 Arrow on hydrant NE. corner Hastings and Monticm. Scale: 1" = 40'

AT FISHER INTERCHANGE  
 ALIGNMENT OF  
 N'BD. TO E'BD. & N'BD. TO W'BD.  
 TURNING ROADWAYS

60+00 TO 71+00

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
NO. 350			
STENCIL			

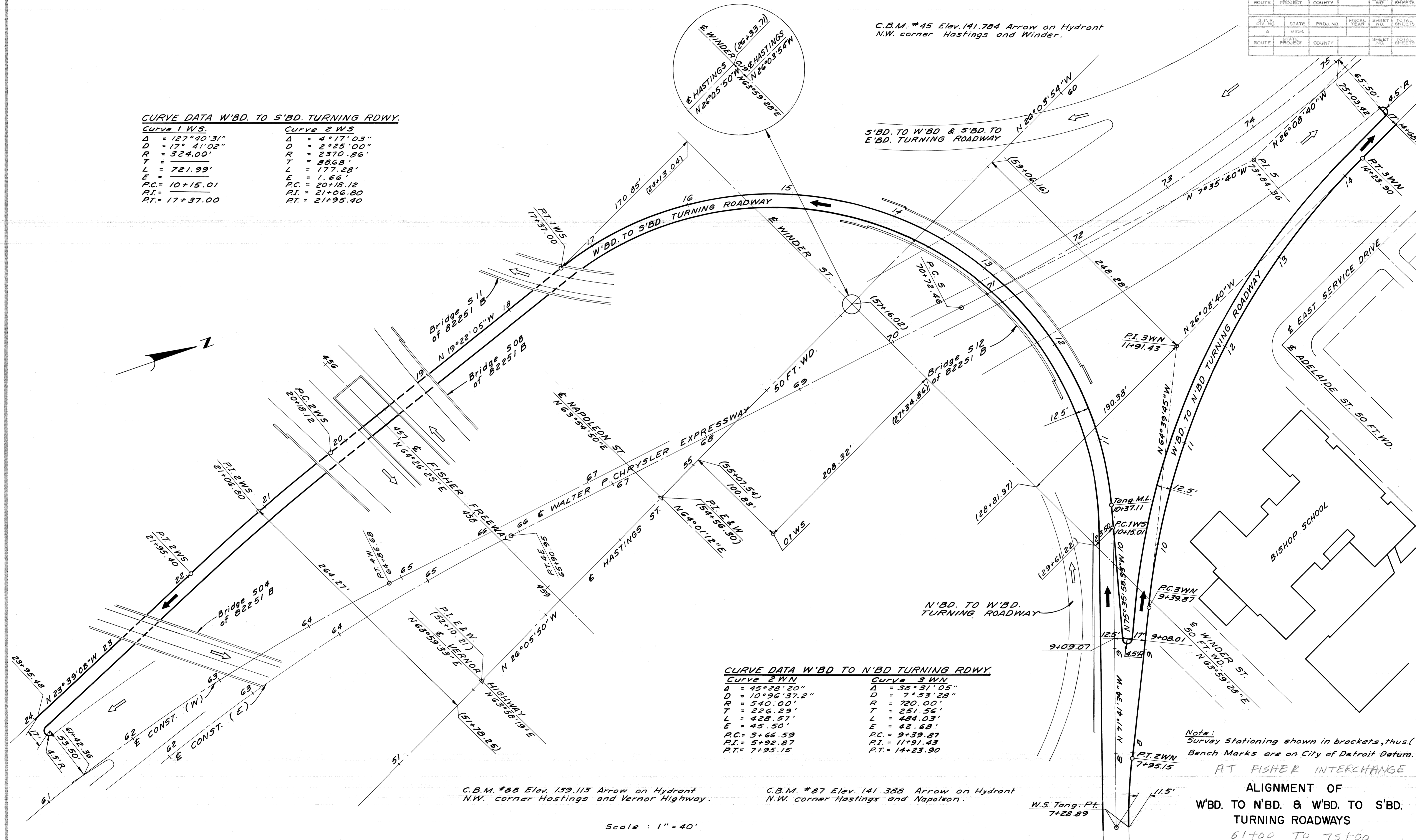
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
4	MICH.				

**CURVE DATA W'BD. TO S'BD. TURNING RDWY.**

Curve 1 WS.	Curve 2 WS.
$\Delta = 127^{\circ}40'31''$	$\Delta = 4^{\circ}17'03''$
$D = 17^{\circ}41'02''$	$D = 2^{\circ}25'00''$
$R = 324.00'$	$R = 2370.86'$
$T = 721.99'$	$T = 8868'$
$L = 721.99'$	$L = 177.28'$
$E = 10+15.01$	$E = 1.66'$
$PC = 10+15.01$	$PC = 20+18.12$
$PI = 17+37.00$	$PI = 21+06.80$
$PT = 17+37.00$	$PT = 21+95.40$

**CURVE DATA W'BD TO N'BD TURNING RDWY.**

Curve 2 WN	Curve 3 WN
$\Delta = 45^{\circ}28'20''$	$\Delta = 38^{\circ}31'05''$
$D = 10^{\circ}96'37.2''$	$D = 7^{\circ}53'28''$
$R = 540.00'$	$R = 720.00'$
$T = 226.29'$	$T = 251.56'$
$L = 428.57'$	$L = 484.03'$
$E = 45.50'$	$E = 42.68'$
$PC = 3+66.59$	$PC = 9+39.87$
$PI = 5+92.87$	$PI = 11+91.43$
$PT = 7+95.15$	$PT = 14+23.90$



C.B.M. #45 Elev. 141.784 Arrow on Hydrant N.W. corner Hastings and Winder.

C.B.M. #88 Elev. 139.113 Arrow on Hydrant N.W. corner Hastings and Vernor Highway.

C.B.M. #87 Elev. 141.388 Arrow on Hydrant N.W. corner Hastings and Napoleon.

W.S. Tang. Pt. 7+28.89

Note: Survey Stationing shown in brackets, thus ( ) Bench Marks are on City of Detroit Datum. AT FISHER INTERCHANGE

ALIGNMENT OF W'BD. TO N'BD. & W'BD. TO S'BD. TURNING ROADWAYS 61+00 TO 75+00

Scale: 1" = 40'

FILE NO.	STATE	PROJECT	SHEET NO.

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				

C.B.M. #44 Elev. 140.751 Arrow on hydrant  
N.W. corner St. Antoine and Winder.

**CURVE DATA WEST SERVICE DRIVE**

$\Delta = 20^{\circ}20'44''$	$\Delta = 7^{\circ}48'23''$	$\Delta = 57^{\circ}55'09''$
$D = 36^{\circ}00'00''$	$D = 20^{\circ}41'03.83''$	$D = 27^{\circ}46'27.35''$
$R = 159.16'$	$R = 277.00'$	$R = 206.29'$
$T = 38.72'$	$T = 18.30'$	$T = 114.16'$
$L = 75.96'$	$L = 37.74'$	$L = 208.54'$
$E = 4.64'$	$E = 0.64'$	$E = 29.48'$
$PC = 67+10.62$	$PC = 69+52.09$	$PC = 71+91.59$
$PT = 67+49.33$	$PT = 69+70.99$	$PT = 73+05.75$
$RT = 67+86.58$	$RT = 69+89.83$	$RT = 74+00.13$

Notes:  
Stations shown in brackets, thus ( ), refer to existing St. Survey Stationing.  
Bench Marks are on City of Detroit Datum.  
All street returns 15'R except as otherwise noted.

**CURVE DATA S'BD. TO E'BD. TURNING RDWY.**

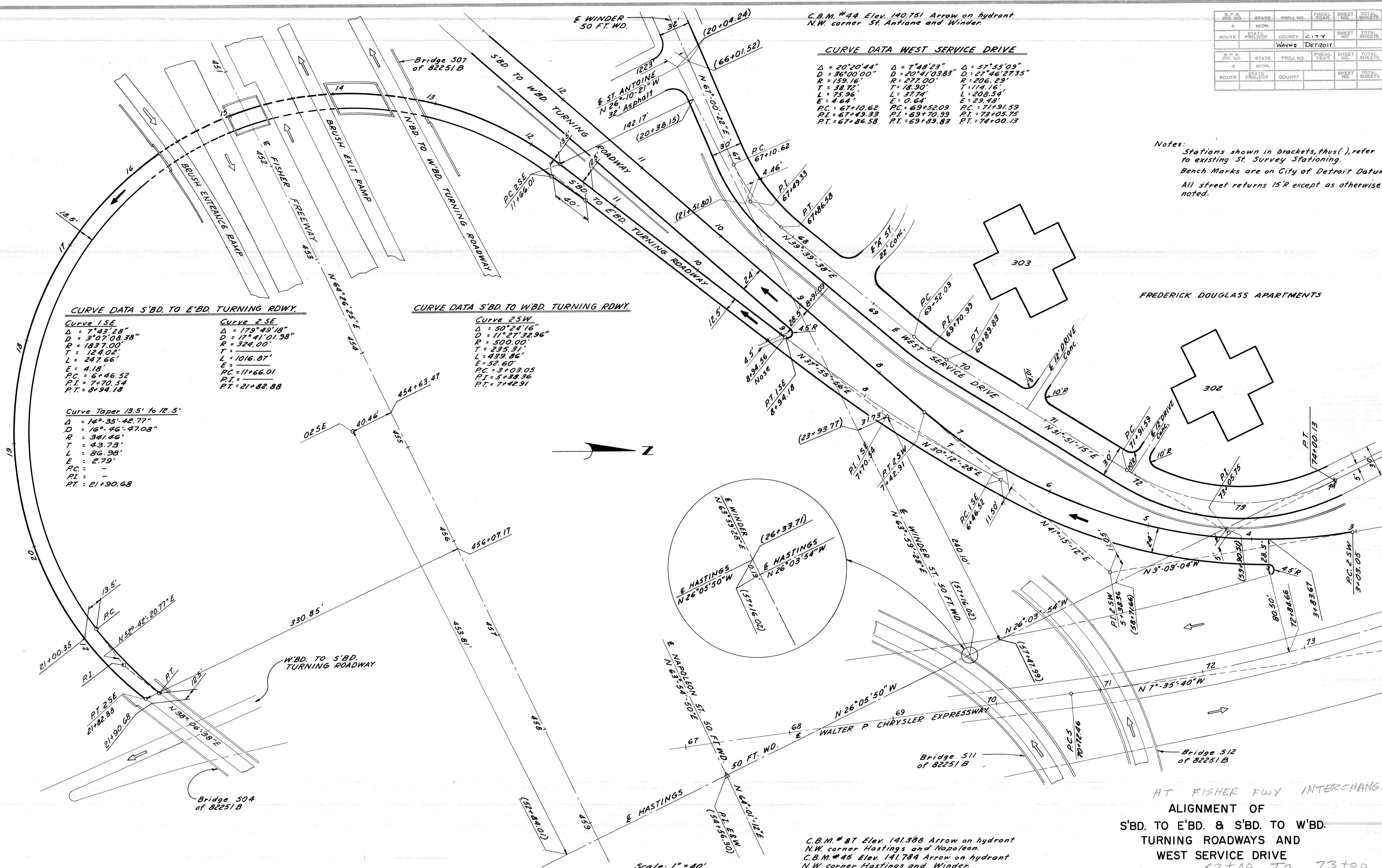
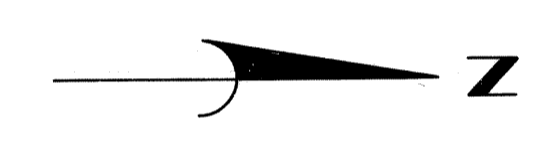
<b>Curve 1 SE</b>	<b>Curve 2 SE</b>
$\Delta = 7^{\circ}43'28''$	$\Delta = 179^{\circ}49'18''$
$D = 3^{\circ}07'08.38''$	$D = 17^{\circ}41'01.98''$
$R = 1837.00'$	$R = 324.00'$
$T = 124.02'$	$T = 1016.87'$
$L = 247.66'$	$E = 1166.01'$
$E = 4.18'$	$PI = 21+82.88$
$PC = 6+46.52$	
$PI = 7+70.54$	
$PT = 8+94.18$	

**CURVE DATA S'BD. TO W'BD. TURNING RDWY.**

<b>Curve 2 SW</b>
$\Delta = 50^{\circ}24'16''$
$D = 11^{\circ}27'32.96''$
$R = 500.00'$
$T = 235.31'$
$L = 439.86'$
$E = 52.60'$
$PC = 3+03.05$
$PI = 5+38.36$
$PT = 7+142.91$

**Curve Taper 13.5' to 12.5'**

$\Delta = 14^{\circ}35'42.77''$
$D = 16^{\circ}46'47.08''$
$R = 341.46'$
$T = 43.73'$
$L = 86.98'$
$E = 2.79'$
$PC = -$
$PI = -$
$PT = 21+90.68$



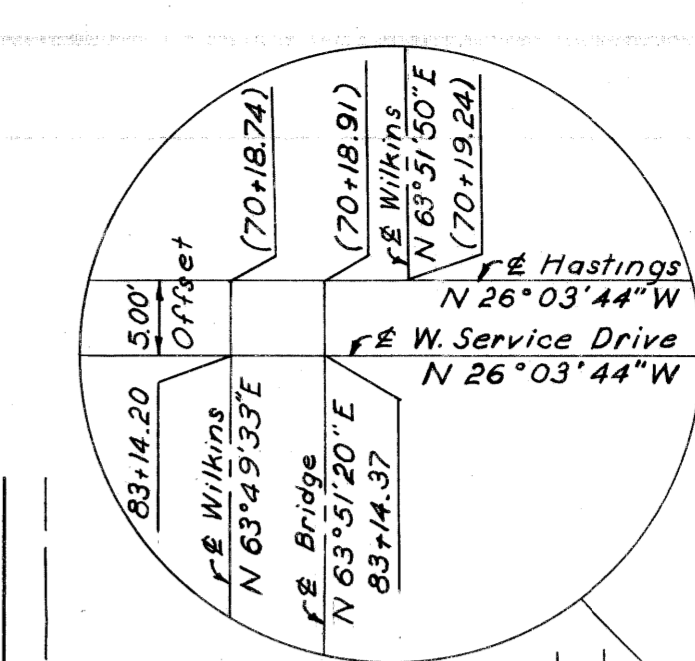
C.B.M. #87 Elev. 141.388 Arrow on hydrant  
N.W. corner Hastings and Napoleon.  
C.B.M. #45 Elev. 141.784 Arrow on hydrant  
N.W. corner Hastings and Winder.

Scale: 1" = 40'

AT FISHER FWY INTERCHANGE  
ALIGNMENT OF  
S'BD. TO E'BD. & S'BD. TO W'BD.  
TURNING ROADWAYS AND  
WEST SERVICE DRIVE  
67+00 TO 73+00

FILE NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit			
DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit			



C.B.M. # 61 Elev. 142.835 Arrow on hydrant  
E. Side of St. Antoine, 488' N. of Winder.

C.B.M. # 62 Elev. 143.057 Arrow on hydrant  
S.E. corner of St. Antoine and Alfred.  
C.B.M. # 86 Elev. 143.416 Arrow on hydrant  
S.W. corner of Hastings and Alfred.

C.B.M. # 63 Elev. 142.486 Arrow on hydrant  
S.E. corner of St. Antoine and Wilkins.  
P.B.M. # 39-251 Elev. 139.769 City of Detroit  
Monument N.E. corner of Hastings and Wilkins.

**West Service Drive Curve Data**  
 $\Delta = 57^{\circ}55'09''$   
 $D = 27^{\circ}46'27''$   
 $R = 206.29'$   
 $T = 114.16'$   
 $L = 208.94'$   
 $E = 29.48'$   
 $PC = 71+91.59$   
 $PT = 73+03.75$   
 $PI = 74+00.13$

**Curve 1 S W**  
 $\Delta = 16^{\circ}53'36''$   
 $D = 5^{\circ}36'26.85''$   
 $R = 1021.78'$   
 $T = 152.65'$   
 $L = 303.05'$   
 $E = 11.34'$   
 $PC = 0+00.00$   
 $PT = 1+52.65$   
 $PI = 3+03.05$

**CONSTRUCTION & CURVE DATA**  
**Curve #5**  
 $\Delta = 18^{\circ}33'00''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 311.90'$   
 $L = 618.33'$   
 $PC = 70+72.46$   
 $PT = 73+84.36$   
 $PI = 74+90.80$   
 $E = 25.30'$

Note:  
 Stations shown in brackets, thus ( ), refer to the Existing St. Survey Stationing.  
 Bench Marks are on a City of Detroit Datum.  
 All street returns are 15' R unless otherwise noted.  
 All alley returns are 5' R unless otherwise noted.

C.B.M. # 66 Elev. 144.946 Arrow on hydrant  
N.W. corner of Rivard and Adelaide.

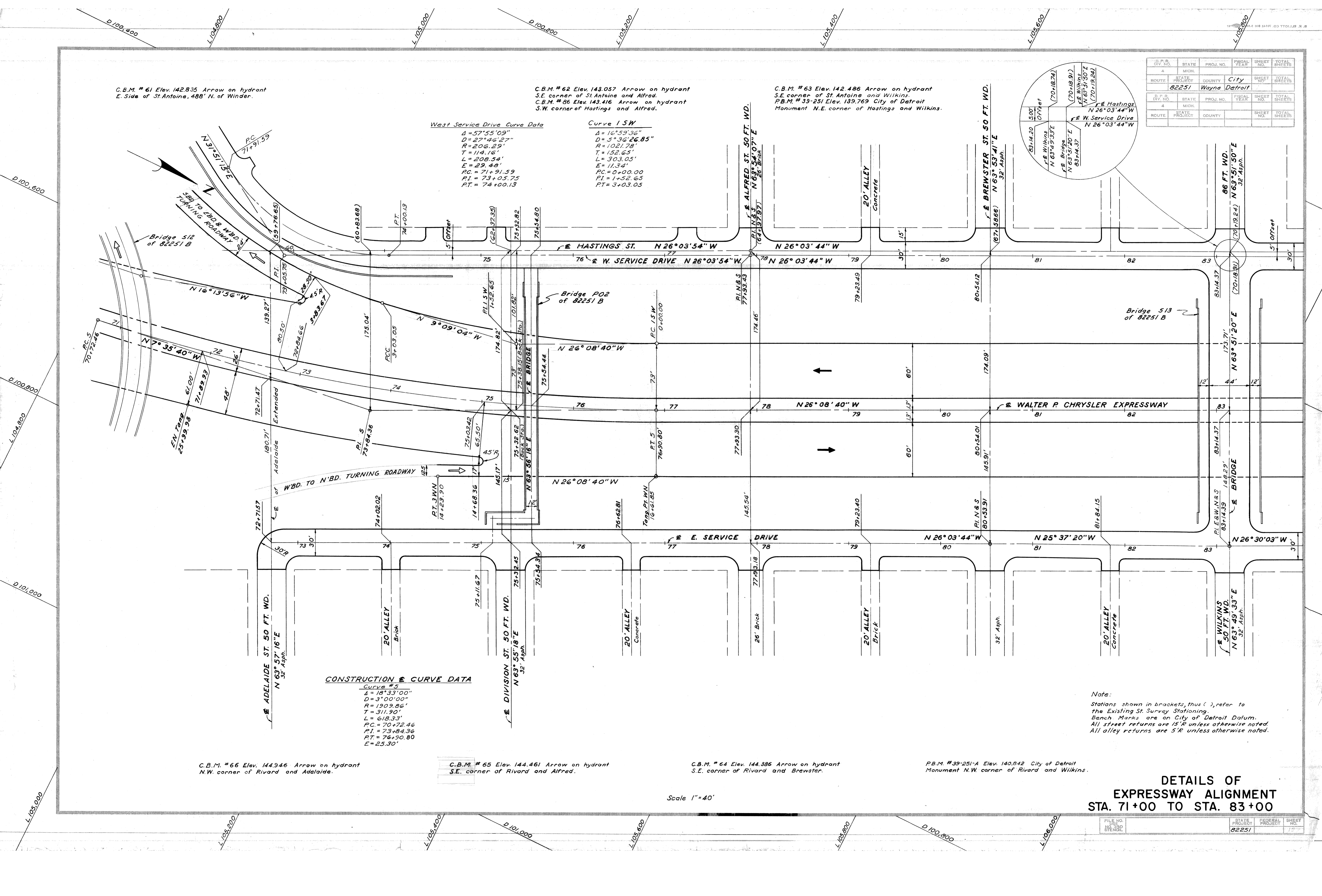
C.B.M. # 65 Elev. 144.461 Arrow on hydrant  
S.E. corner of Rivard and Alfred.

C.B.M. # 64 Elev. 144.386 Arrow on hydrant  
S.E. corner of Rivard and Brewster.

P.B.M. # 39-251-A Elev. 140.842 City of Detroit  
Monument N.W. corner of Rivard and Wilkins.

**DETAILS OF EXPRESSWAY ALIGNMENT  
 STA. 71+00 TO STA. 83+00**

Scale 1" = 40'



S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit			
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS

C.B.M.#67 Elev 143.173 Arrow on hydrant. E. Side of St. Antoine at S. Side of Watson Extended.

C.B.M.#68 Elev 143.425 Arrow on hydrant. S.W. Corner of St. Antoine and Erskine.

C.B.M.#69 Elev 144.220 Arrow on hydrant. W. Side of St. Antoine at S. Side of Benton Extended.

C.B.M.#71 Elev 145.686 Arrow on hydrant. N.E. Corner of St. Antoine and Mack.

C.B.M.#70 Elev 144.654 Arrow on hydrant. S.E. Corner of St. Antoine and Eliot.

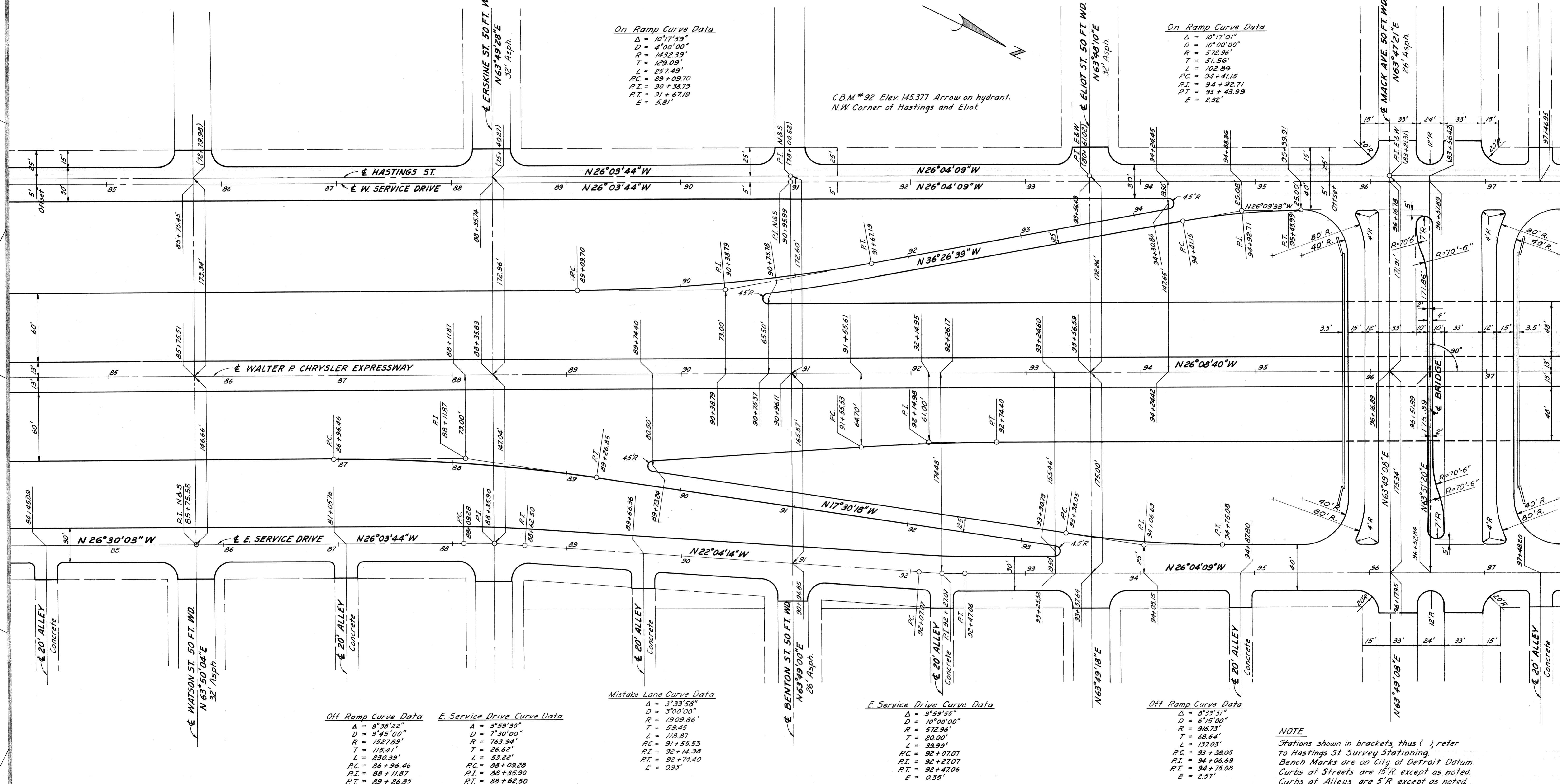
BREWSTER HOMES

BREWSTER HOMES

**On Ramp Curve Data**  
 $\Delta = 10^{\circ}17'59''$   
 $D = 4^{\circ}00'00''$   
 $R = 1432.39'$   
 $T = 129.09'$   
 $L = 257.49'$   
 $PC = 89+03.70$   
 $PI = 90+38.79$   
 $PT = 91+67.19$   
 $E = 5.81'$

**On Ramp Curve Data**  
 $\Delta = 10^{\circ}17'01''$   
 $D = 10^{\circ}00'00''$   
 $R = 572.36'$   
 $T = 51.56'$   
 $L = 102.84'$   
 $PC = 94+41.15$   
 $PI = 94+92.71$   
 $PT = 95+43.99$   
 $E = 2.32'$

C.B.M.#92 Elev 145.377 Arrow on hydrant. N.W. Corner of Hastings and Eliot.



**Off Ramp Curve Data**  
 $\Delta = 8^{\circ}38'22''$   
 $D = 3^{\circ}45'00''$   
 $R = 1527.83'$   
 $T = 115.41'$   
 $L = 230.39'$   
 $PC = 86+96.46$   
 $PI = 88+11.87$   
 $PT = 89+26.85$   
 $E = 4.35'$

**E. Service Drive Curve Data**  
 $\Delta = 3^{\circ}59'30''$   
 $D = 7^{\circ}30'00''$   
 $R = 763.94'$   
 $T = 26.62'$   
 $L = 53.22'$   
 $PC = 88+09.20$   
 $PI = 88+35.90$   
 $PT = 88+62.50$   
 $E = 0.46'$

**Mistake Lane Curve Data**  
 $\Delta = 5^{\circ}33'58''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 59.45'$   
 $L = 118.87'$   
 $PC = 91+55.53$   
 $PI = 92+14.98$   
 $PT = 92+74.40$   
 $E = 0.93'$

**E. Service Drive Curve Data**  
 $\Delta = 8^{\circ}33'51''$   
 $D = 10^{\circ}00'00''$   
 $R = 572.36'$   
 $T = 20.00'$   
 $L = 38.99'$   
 $PC = 92+07.07$   
 $PI = 92+27.07$   
 $PT = 92+47.06$   
 $E = 0.35'$

**Off Ramp Curve Data**  
 $\Delta = 8^{\circ}33'51''$   
 $D = 6^{\circ}15'00''$   
 $R = 916.73'$   
 $T = 68.64'$   
 $L = 137.03'$   
 $PC = 93+38.05$   
 $PI = 94+06.69$   
 $PT = 94+75.08$   
 $E = 2.51'$

**NOTE**  
 Stations shown in brackets, thus ( ), refer to Hastings St Survey Stationing.  
 Bench Marks are on City of Detroit Datum.  
 Curbs at Streets are 15'R except as noted.  
 Curbs at Alleys are 5'R except as noted.

C.B.M.#85 Elev 144.680 Arrow on hydrant. N.W. Corner of Rivard and Watson

C.B.M.#84 Elev 145.032 Arrow on hydrant. N.E. Corner of Rivard and Erskine

C.B.M.#83 Elev 146.275 Arrow on hydrant. N.E. Corner of Rivard and Benton.

C.B.M.#92 Elev 146.977 Arrow on hydrant. S.W. Corner of Rivard and Eliot.

C.B.M.#81 Elev 147.617 Arrow on hydrant. S.W. Corner of Rivard and Mack.

**DETAILS OF EXPRESSWAY ALIGNMENT**  
 85+00 To 97+00

Scale 1" = 40'

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.

C.B.M. #71 Elev. 145.686 Arrow on Hydrant N.E. corner St. Antoine and Mack.

C.B.M. #72 Elev. 145.940 Arrow on Hydrant N.E. corner St. Antoine and Brady

C.B.M. #93 Elev. 147.138 Arrow on Hydrant N.E. corner Hastings and Livingstone.

C.B.M. #74 Elev. 147.161 Arrow on Hydrant S.E. corner St. Antoine and Illinois.

P.B.M. #40-250 Elev. 147.253 City of Detroit Monument N.E. corner Hastings and Alexandrine.

C.B.M. #73 Elev. 146.574 Arrow on Hydrant N.E. corner St. Antoine and Livingstone

C.B.M. #75 Elev. 148.123 Arrow on Hydrant N.E. corner St. Antoine and Leland.

C.B.M. #76 Elev. 149.366 Arrow on Hydrant S.E. corner St. Antoine and Alexandrine.

Off Ramp Curve Data

Δ = 7° 31' 22"
D = 10° 00' 00"
R = 572.96'
T = 37.63'
L = 75.23'
P.C. = 98+97.71
P.I. = 99+35.38
P.T. = 99+72.94
E = 1.24'

Mistake Lane Curve Data

Δ = 3° 33' 58"
D = 3° 00' 00"
R = 1909.98'
T = 39.49'
L = 118.87'
P.C. = 101+27.39
P.I. = 101+86.84
P.T. = 102+46.26
E = 0.93

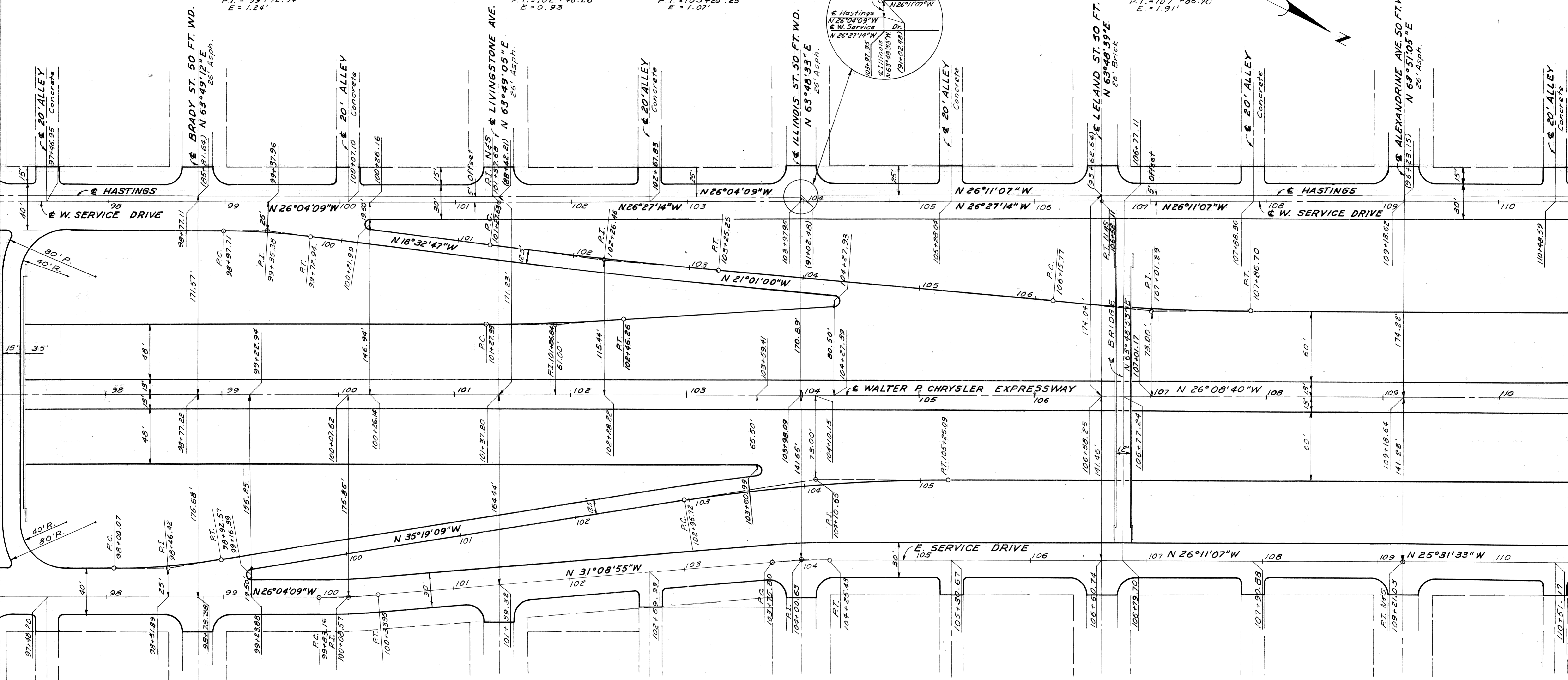
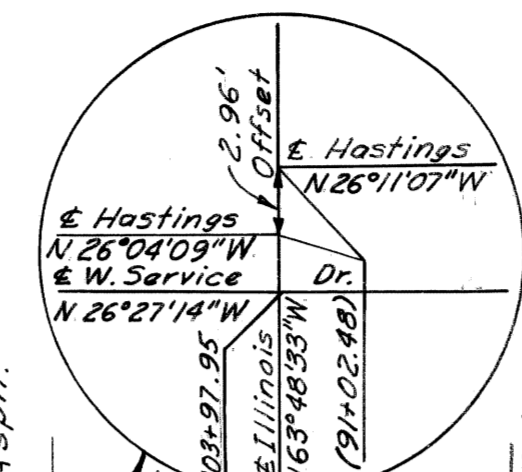
Off Ramp Curve Data

Δ = 2° 28' 13"
D = 1° 15' 00"
R = 4983.96'
T = 98.83'
L = 197.62'
P.C. = 101+27.63
P.I. = 102+26.46
P.T. = 103+25.25
E = 1.07'

Off Ramp Curve Data

Δ = 5° 07' 40"
D = 3° 00' 00"
R = 1909.86'
T = 85.32'
L = 110.93'
P.C. = 106+15.77
P.I. = 107+01.29
P.T. = 107+86.70
E = 1.91'

Table with columns: S.P.R. DIV. NO., STATE, PROJ. NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Includes project info for Wayne, Detroit.



On Ramp Curve Data

Δ = 9° 15' 00"
D = 10° 00' 00"
R = 572.96'
T = 46.35'
L = 92.50'
P.C. = 98+00.07
P.I. = 98+46.42
P.T. = 98+92.57
E = 1.87'

E. Service Dr. Curve Data

Δ = 5° 04' 46"
D = 10° 00' 00"
R = 572.96'
T = 25.41'
L = 50.79'
P.C. = 99+83.16
P.I. = 100+08.57
P.T. = 100+33.95
E = 0.56'

E. Service Dr. Curve Data

Δ = 4° 57' 48"
D = 10° 00' 00"
R = 572.96'
T = 24.63'
L = 49.63'
P.C. = 103+75.80
P.I. = 104+00.63
P.T. = 104+25.43
E = 0.54'

On Ramp Curve Data

Δ = 9° 10' 29"
D = 4° 00' 00"
R = 1432.39'
T = 14.93'
L = 229.37'
P.C. = 102+95.72
P.I. = 104+10.65
P.T. = 105+25.09
E = 4.60'

C.B.M. #77 Elev. 150.665 Arrow on Hydrant N.W. corner Rivard and Leland

P.B.M. #40-250 A, Elev. 146.683 City of Detroit Monument N.E. corner Rivard and Alexandrine

C.B.M. #81 Elev. 147.617 Arrow on Hydrant S.W. corner Rivard and Mack.

C.B.M. #80 Elev. 148.533 Arrow on Hydrant N.W. corner Rivard and Brady.

C.B.M. #79 Elev. 149.107 Arrow on Hydrant N.E. corner Rivard and Livingstone.

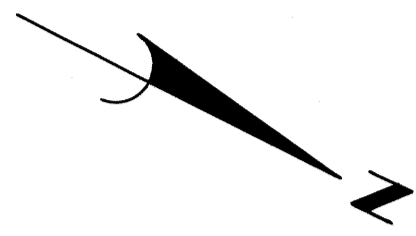
C.B.M. #78 Elev. 149.942 Arrow on Hydrant N.W. corner Rivard and Illinois.

NOTE: Stations shown in brackets, thus ( ), refer to Hastings St. Survey Stationing. Bench Marks are on City of Detroit Datum. Curbs of Streets and Avenues are 15'R except as noted. Curbs of Alleys are 5'R except as noted.

98+00 To 110+00
DETAILS OF EXPRESSWAY ALIGNMENT

Table with columns: FILE NO., STATE, FEDERAL, SHEET NO. Includes project info for Wayne, Detroit.

S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	125-132152			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit	12		
S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	125-132152			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit	12		



C.B.M.\*76 Elev. 149.366 Arrow on Hydrant  
S.E. corner St. Antoine and Alexandrine.

C.B.M.\*94 Elev. 150.252 Arrow on Hydrant  
N.E. corner St. Antoine and Superior.

C.B.M.\*95 Elev. 150.955 Arrow on Hydrant  
S.E. corner St. Antoine and Willis.

C.B.M.\*96 Elev. 150.489 Arrow on Hydrant  
S.E. corner St. Antoine and Canfield.

C.B.M.\*110 Elev. 149.924 Arrow on Hydrant  
S.E. corner Hastings and Canfield.

P.B.M.\*40-250 Elev. 147.257 City of Detroit  
Monument N.E. corner Hastings and Alexandrine.

P.B.M.\*40-250A Elev. 146.683 City of Detroit  
Monument N.E. corner Rivard and Alexandrine.

C.B.M.\*109 Elev. 149.862 Arrow on Hydrant  
N.W. corner Rivard and Superior.

C.B.M.\*108 Elev. 149.802 Arrow on Hydrant  
N.W. corner Rivard and Willis.

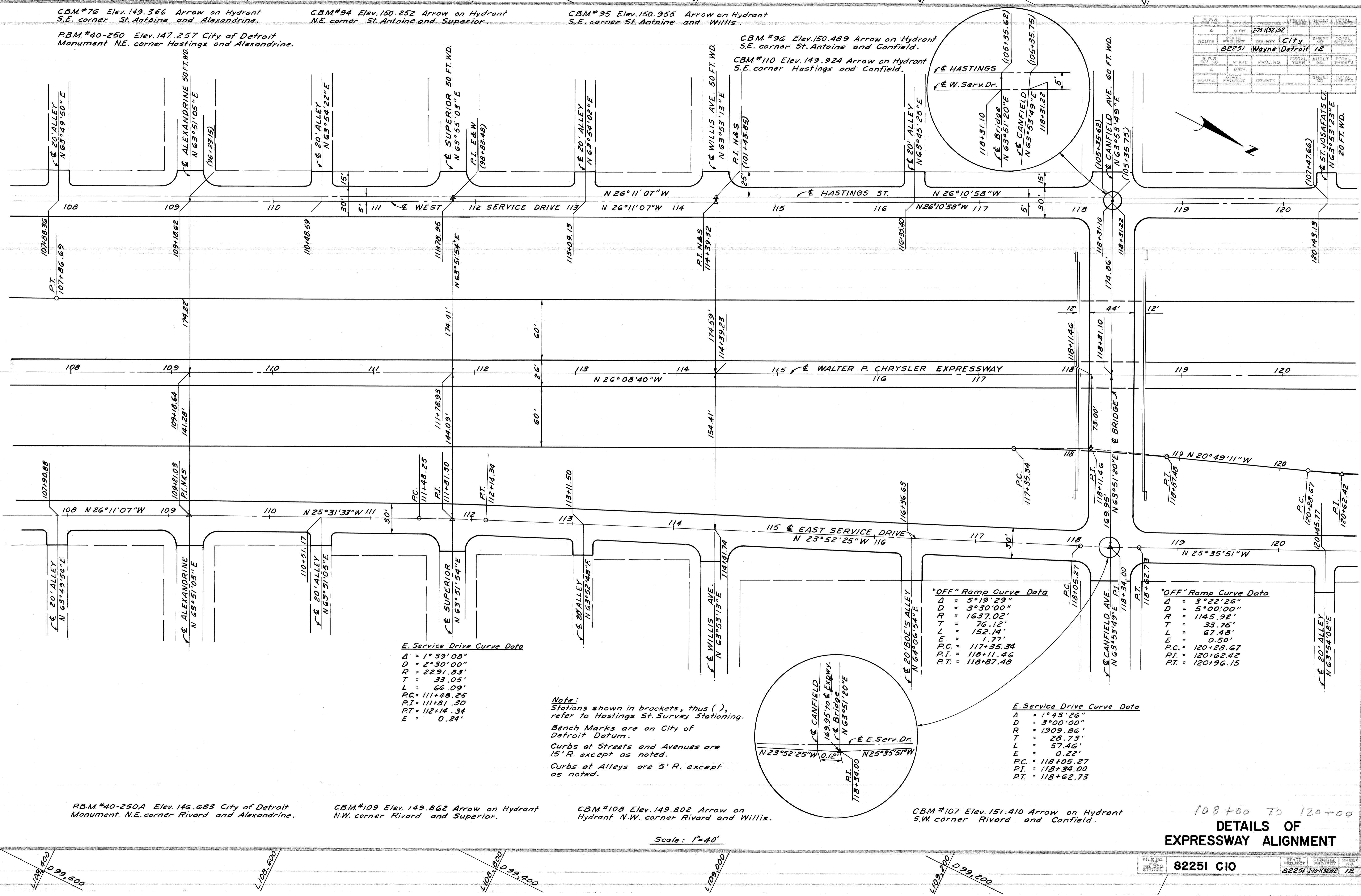
C.B.M.\*107 Elev. 151.410 Arrow on Hydrant  
S.W. corner Rivard and Canfield.

108+00 To 120+00

**DETAILS OF EXPRESSWAY ALIGNMENT**

Scale: 1"=40'

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82251 C10	82251	125-132152	12



**E. Service Drive Curve Data**

Δ	= 1° 39' 08"
D	= 2° 30' 00"
R	= 2291.83'
T	= 33.05'
L	= 66.09'
PC	= 111+48.25
PI	= 111+81.30
PT	= 112+14.34
E	= 0.24'

**Note:**  
Stations shown in brackets, thus ( ), refer to Hastings St. Survey Stationing.  
Bench Marks are on City of Detroit Datum.  
Curbs at Streets and Avenues are 15' R. except as noted.  
Curbs at Alleys are 5' R. except as noted.

**"OFF" Ramp Curve Data**

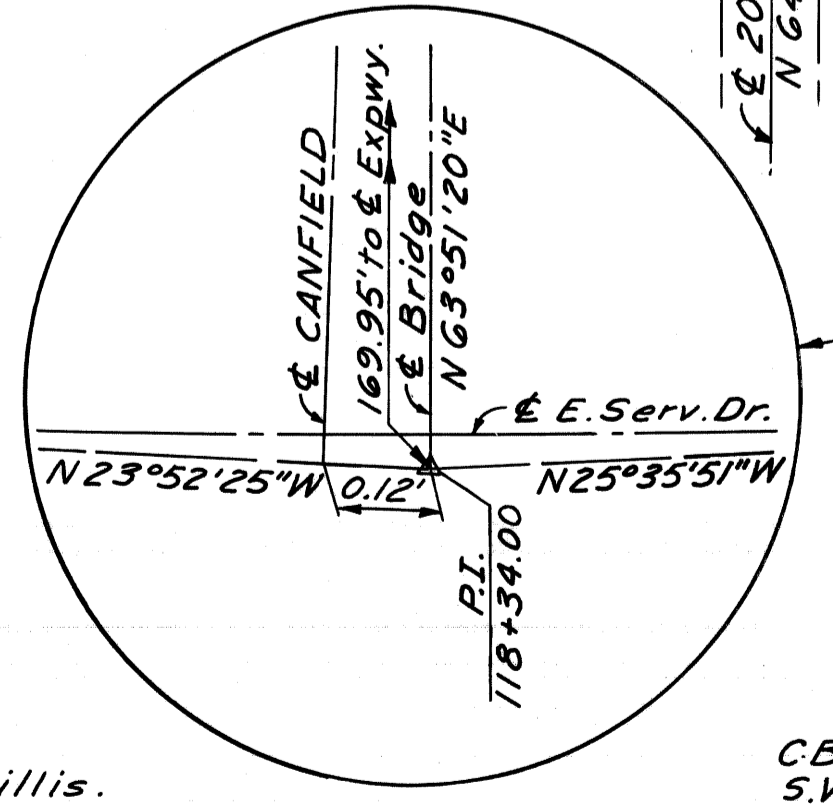
Δ	= 5° 19' 29"
D	= 3° 30' 00"
R	= 1637.02'
T	= 76.12'
L	= 152.14'
E	= 1.77'
PC	= 117+35.34
PI	= 118+11.46
PT	= 118+87.48

**"OFF" Ramp Curve Data**

Δ	= 3° 22' 26"
D	= 5° 00' 00"
R	= 1145.92'
T	= 33.75'
L	= 67.48'
E	= 0.50'
PC	= 120+28.67
PI	= 120+62.42
PT	= 120+96.15

**E. Service Drive Curve Data**

Δ	= 1° 43' 26"
D	= 3° 00' 00"
R	= 1909.86'
T	= 28.73'
L	= 57.46'
E	= 0.22'
PC	= 118+05.27
PI	= 118+34.00
PT	= 118+62.73



B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
82251	MI	175-13212		13	13
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
			Wayne Detroit	13	13
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS

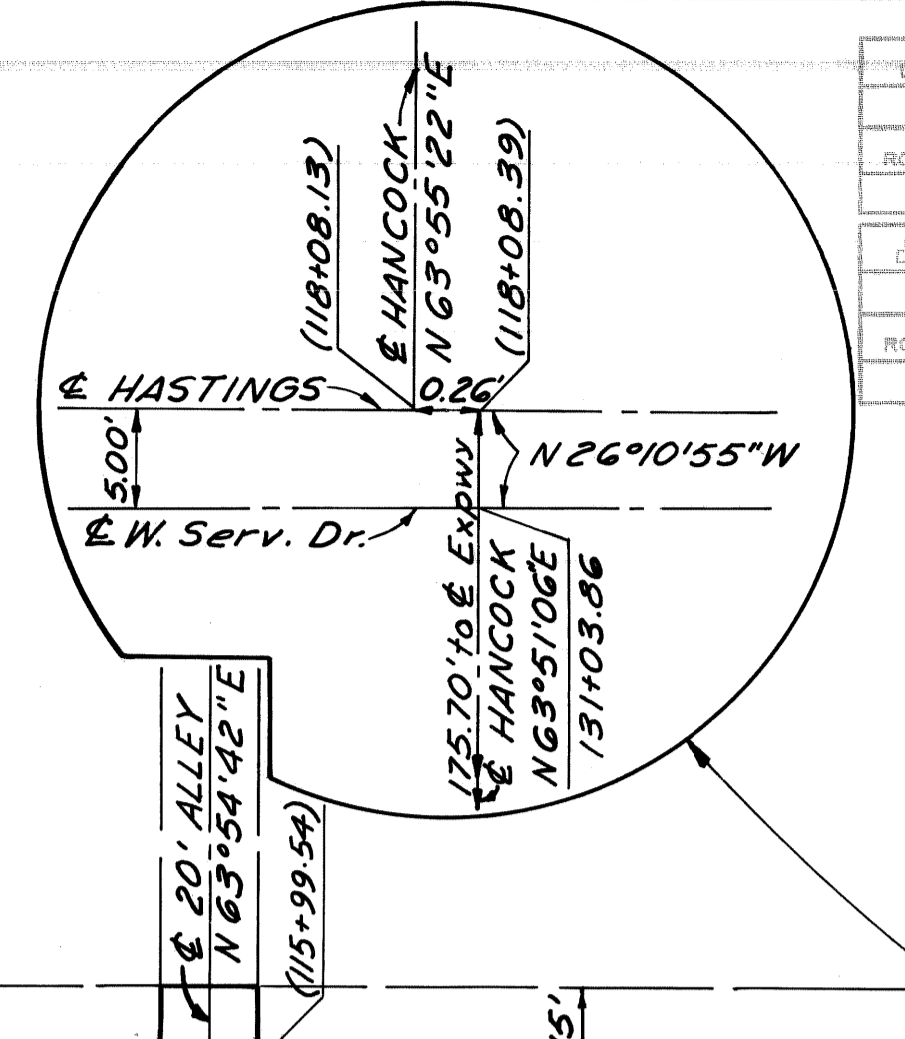
PLANS PREPARED BY  
CITY OF DETROIT  
DEPARTMENT OF PUBLIC WORKS  
CITY ENGINEERS OFFICE  
BUREAU OF HIGHWAYS AND EXPRESSWAYS

C.B.M.\* 96 Elev. 150.489 Arrow on Hydrant  
S.E. corner St. Antoine and Canfield.  
C.B.M.\* 110 Elev. 149.924 Arrow on Hydrant  
S.E. corner Hastings and Canfield.

C.B.M.\* 97 Elev. 151.400 Arrow on Hydrant  
N.E. corner St. Antoine and Garfield.  
C.B.M.\* 98 Elev. 153.546 Arrow on Hydrant  
S.E. corner St. Antoine and Forest.

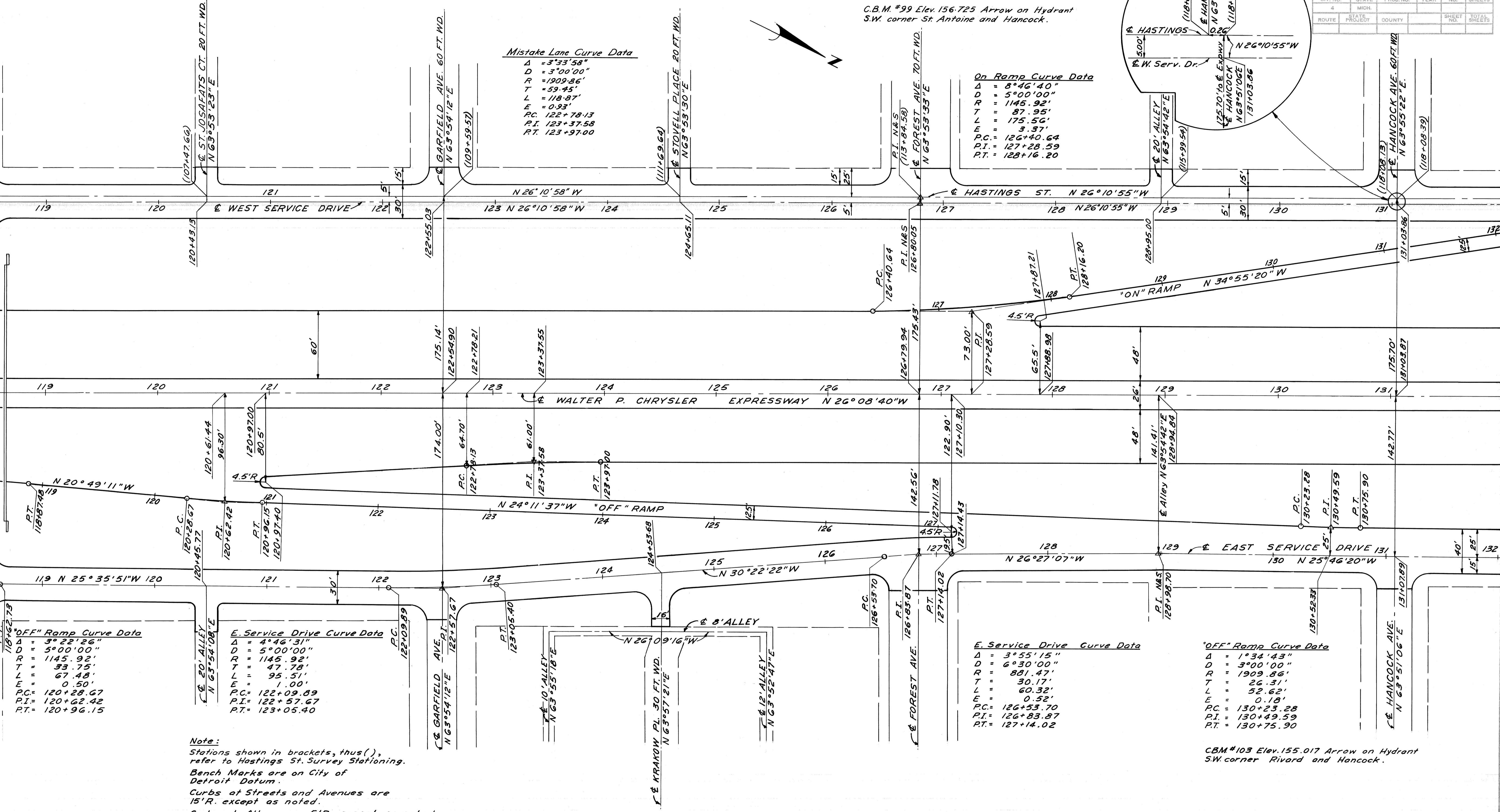
C.B.M.\* 112 Elev. 155.353 Arrow on Hydrant  
S.W. corner Hastings and Forest.  
C.B.M.\* 113 Elev. 155.568 Arrow on Hydrant  
N. side of Forest, 450' E. of C.B.M.\* 112.

C.B.M.\* 99 Elev. 156.725 Arrow on Hydrant  
S.W. corner St. Antoine and Hancock.



**Mistake Lane Curve Data**  
 $\Delta = 3^{\circ}33'58''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 59.45'$   
 $L = 118.87'$   
 $E = 0.93'$   
 $P.C. = 122+78.13$   
 $P.I. = 123+37.58$   
 $P.T. = 123+97.00$

**On Ramp Curve Data**  
 $\Delta = 8^{\circ}46'40''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 87.95'$   
 $L = 175.56'$   
 $E = 3.37'$   
 $P.C. = 126+40.64$   
 $P.I. = 127+28.59$   
 $P.T. = 128+16.20$



**"OFF" Ramp Curve Data**  
 $\Delta = 3^{\circ}22'26''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 33.75'$   
 $L = 67.48'$   
 $E = 0.50'$   
 $P.C. = 120+28.67$   
 $P.I. = 120+62.42$   
 $P.T. = 120+96.15$

**E. Service Drive Curve Data**  
 $\Delta = 4^{\circ}46'31''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 47.78'$   
 $L = 95.51'$   
 $E = 1.00'$   
 $P.C. = 122+09.89$   
 $P.I. = 122+57.67$   
 $P.T. = 123+05.40$

**E. Service Drive Curve Data**  
 $\Delta = 3^{\circ}55'15''$   
 $D = 6^{\circ}30'00''$   
 $R = 881.47'$   
 $T = 30.17'$   
 $L = 60.32'$   
 $E = 0.52'$   
 $P.C. = 126+53.70$   
 $P.I. = 126+83.87$   
 $P.T. = 127+14.02$

**"OFF" Ramp Curve Data**  
 $\Delta = 1^{\circ}34'43''$   
 $D = 3^{\circ}00'00''$   
 $R = 1909.86'$   
 $T = 26.31'$   
 $L = 52.62'$   
 $E = 0.18'$   
 $P.C. = 130+23.28$   
 $P.I. = 130+49.59$   
 $P.T. = 130+75.90$

**Note:**  
 Stations shown in brackets, thus ( ), refer to Hastings St. Survey Stationing.  
 Bench Marks are on City of Detroit Datum.  
 Curbs at Streets and Avenues are 15'R. except as noted.  
 Curbs at Alleys are 5'R. except as noted.

C.B.M.\* 107 Elev. 151.410 Arrow on Hydrant  
S.W. corner Rivard and Canfield.

C.B.M.\* 106 Elev. 153.948 Arrow on Hydrant  
N.W. corner Rivard and Garfield.

C.B.M.\* 105 Elev. 153.975 Arrow on Hydrant  
N.W. corner Rivard and Krakow Pl.

C.B.M.\* 111 Elev. 154.923 Arrow on Hydrant  
S. side of Forest, 295' E. of C.B.M.\* 98.

C.B.M.\* 104 Elev. 154.311 Arrow on Hydrant  
N.W. corner Rivard and Forest.

Scale: 1" = 40'

119+00 TO 132+00  
**DETAILS OF EXPRESSWAY ALIGNMENT**



C.B.M.#100 Elev. 670 Arrow on Hydrant SE. corner St. Antoine and Warren.

C.B.M.#101 Elev. 154.133 Arrow on Hydrant S. side of Warren 304' E. of C.B.M. #100.

P.B.M.#40-251 Elev. 151.823 City of Detroit Monument N.E. corner Hastings and Warren.

C.B.M.#114 Elev. 155.470 Arrow on Hydrant N.E. corner St. Antoine and Theodore.

C.B.M.#115 Elev. 155.000 Arrow on Hydrant SE. corner St. Antoine and Farnsworth.

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
			Wayne		
82251 Wayne Detroit					
S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
			Wayne		

**On Ramp Curve Data**

$\Delta = 8^{\circ}44'25''$   
 $D = 6^{\circ}00'00''$   
 $R = 954.93'$   
 $T = 72.98'$   
 $L = 145.67'$   
 $E = 2.78'$   
 $PC = 132+13.43$   
 $PI = 132+86.41$   
 $PT = 133+59.10$

**OFF Ramp Curve Data**

$\Delta = 2^{\circ}39'42''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 26.62'$   
 $L = 53.23'$   
 $E = 0.31'$   
 $PC = 137+03.64$   
 $PI = 137+30.26$   
 $PT = 137+56.87$

**East Service Drive Curve Data**

$\Delta = 3^{\circ}38'11''$   
 $D = 10^{\circ}00'00''$   
 $R = 572.96'$   
 $T = 16.19'$   
 $L = 36.36'$   
 $E = 0.29'$   
 $PC = 133+02.27$   
 $PI = 133+20.46$   
 $PT = 133+38.63$

**East Service Drive Curve Data**

$\Delta = 8^{\circ}06'42''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 81.25'$   
 $L = 162.23'$   
 $E = 2.88'$   
 $PC = 134+52.12$   
 $PI = 135+33.37$   
 $PT = 136+14.35$

**INW & INE Curve Data**

$\Delta = 15^{\circ}12'00''$   
 $D = 5^{\circ}00'00''$   
 $R = 1145.92'$   
 $T = 152.90'$   
 $L = 304.00'$   
 $E = 10.16'$   
 $PC = 0+00.00$   
 $PI = 1+52.90$   
 $PT = 3+04.00$

**ON Ramp Curve Data**

$\Delta = 23^{\circ}11'18''$   
 $D = 14^{\circ}30'00''$   
 $R = 395.14'$   
 $T = 81.07'$   
 $L = 159.92'$   
 $E = 8.23'$   
 $PC = 138+84.55$   
 $PI = 139+65.62$   
 $PT = 140+44.47$

**Mistake Lane Curve Data**

$\Delta = 6^{\circ}22'56''$   
 $D = 2^{\circ}08'19''$   
 $R = 2679.17'$   
 $T = 149.37'$   
 $L = 298.43'$   
 $E = 4.16'$   
 $PC = 138+40.23$   
 $PI = 139+89.60$   
 $PT = 141+38.66$

**CONSTRUCTION & CURVE DATA**

**Curve #6**

$\Delta = 6^{\circ}59'40''$   
 $D = 2^{\circ}00'00''$   
 $R = 2864.79'$   
 $T = 175.08'$   
 $L = 349.72'$   
 $E = 5.35'$   
 $PC = 135+85.92$   
 $PI = 137+61.00$   
 $PT = 139+35.64$

**Note:**  
 Stations shown in brackets, thus ( ), refer to Hastings St. Survey Stationing.  
 Bench Marks are on City of Detroit Datum.  
 Curbs at Streets and Avenues are 15'R. except as noted.  
 Curbs at Alleys are 5'R. except as noted.

STA 132+00 TO 142+00

Scale: 1" = 40'

C.B.M.#102 Elev. 155.303 Arrow on Hydrant S. side of Warren 400' E. of Hastings.

P.B.M.#40-251A Elev. 151.409 City of Detroit Monument N.E. corner Rivard and Warren.

C.B.M.#130 Elev. 155.320 Arrow on Hydrant N.W. corner Rivard and Theodore.

C.B.M.#129 Elev. 155.374 Arrow on Hydrant N.E. corner Rivard and Farnsworth.

### DETAILS OF EXPRESSWAY ALIGNMENT

82251 C10

82251