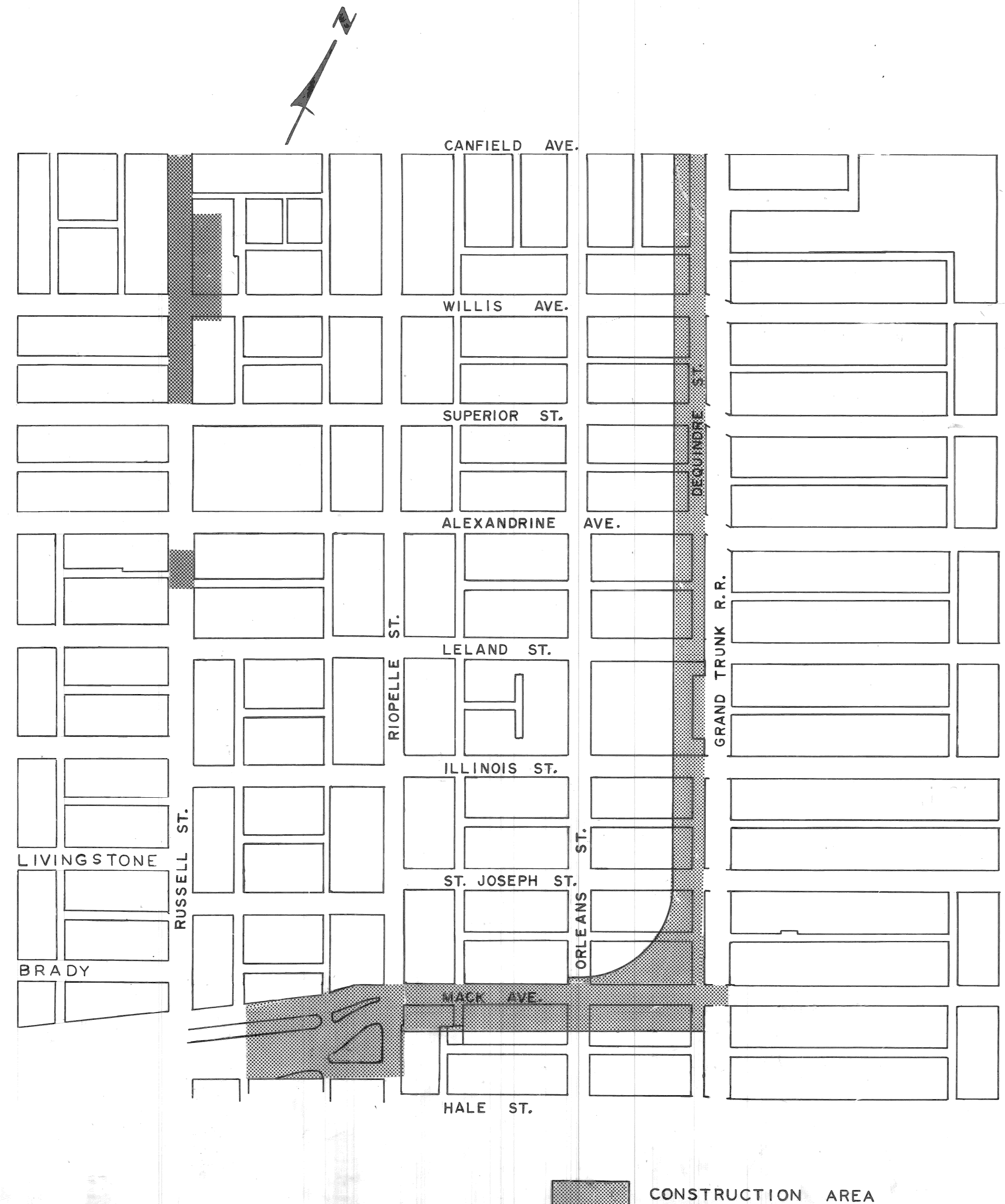


CITY OF DETROIT
 COLEMAN A. YOUNG - MAYOR
 CITY ENGINEERING DEPARTMENT

PLANS FOR PROPOSED

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO
 GRAND TRUNK R.R., ALSO DEQUINDRE
 FROM MACK TO CANFIELD, AND MISCELLANEOUS
 CONSTRUCTION, FOREST PARK REHABILITATION PROJECT



INDEX OF SHEETS

- 1 TITLE SHEET
- 2 CONSTRUCTION SEQUENCE
- 3-5 ALIGNMENT SHEETS
- 6 TYPICAL SECTIONS
- 7-8 UTILITY AND REMOVAL SHEETS
- 9-13 PAVING PLANS
- 14 RUSSELL CUL-DE-SAC - UTILITY, REMOVAL, AND ALIGNMENT
- 15 RUSSELL CUL-DE-SAC - PAVING PLAN AND TYPICAL SECTION
- 16 PAVEMENT MARKINGS
- 17 QUANTITY SHEET
- 18 SEWER ALTERATIONS
- 19-26 WATER SYSTEM ALTERATIONS
- 27-56 P.L.D. PLANS AND STANDARDS

PROJECT: PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION

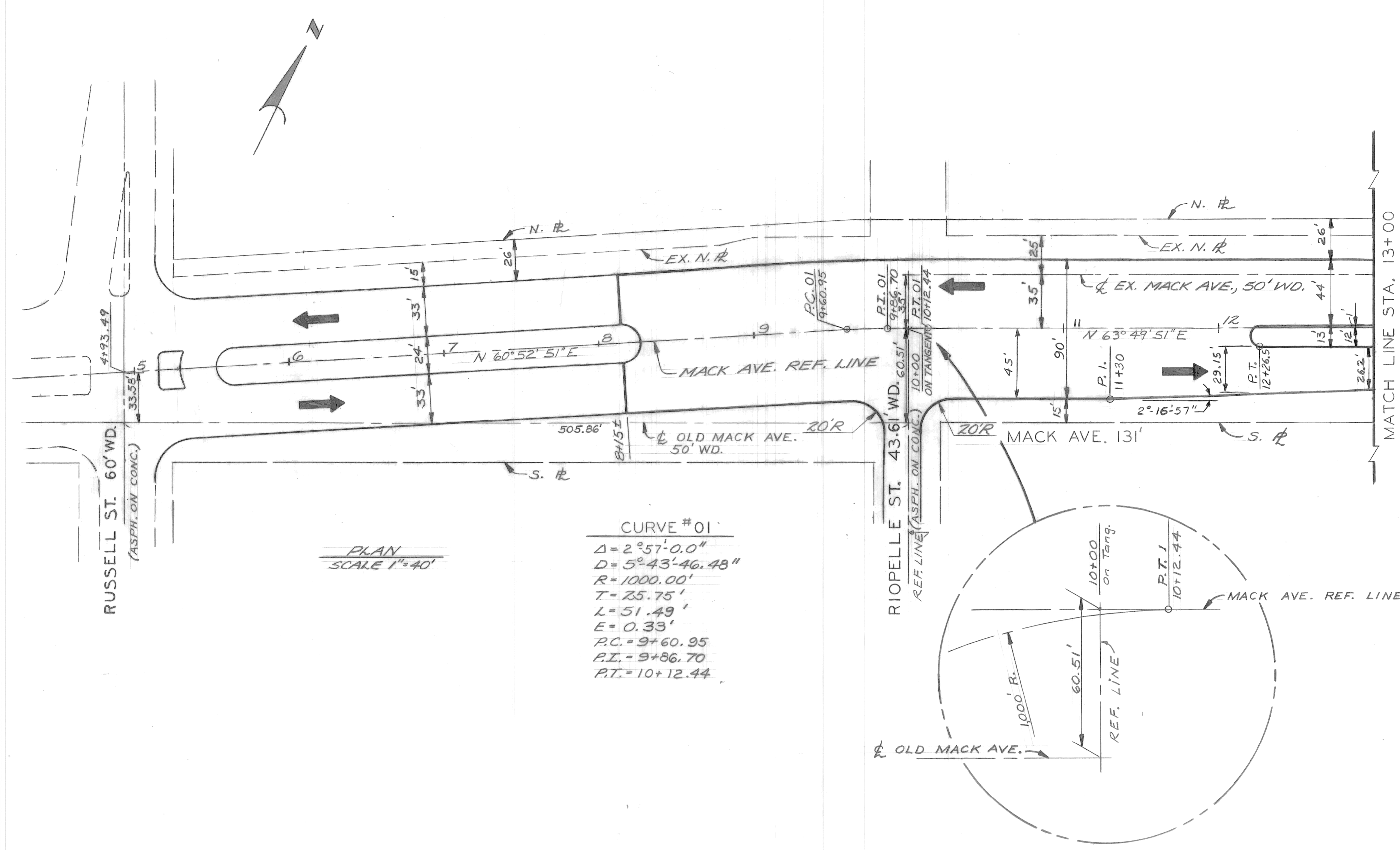
CONTRACT NO.
PW 6691

PLANS PREPARED BY
 CITY ENGINEERING DEPARTMENT

RECOMMENDED FOR APPROVAL	<i>William R. Talley</i>	4-1-90
	ENGINEER OF INSPECTION	DATE
RECOMMENDED FOR APPROVAL	<i>William R. Talley</i>	4/1/90
	ENGINEER OF STREETS	DATE
APPROVED	<i>E.M. Kennedy</i>	4/1/90
	DEPUTY DIRECTOR	DATE
APPROVED	<i>Robert L. ...</i>	4/1/90
	DIRECTOR	DATE

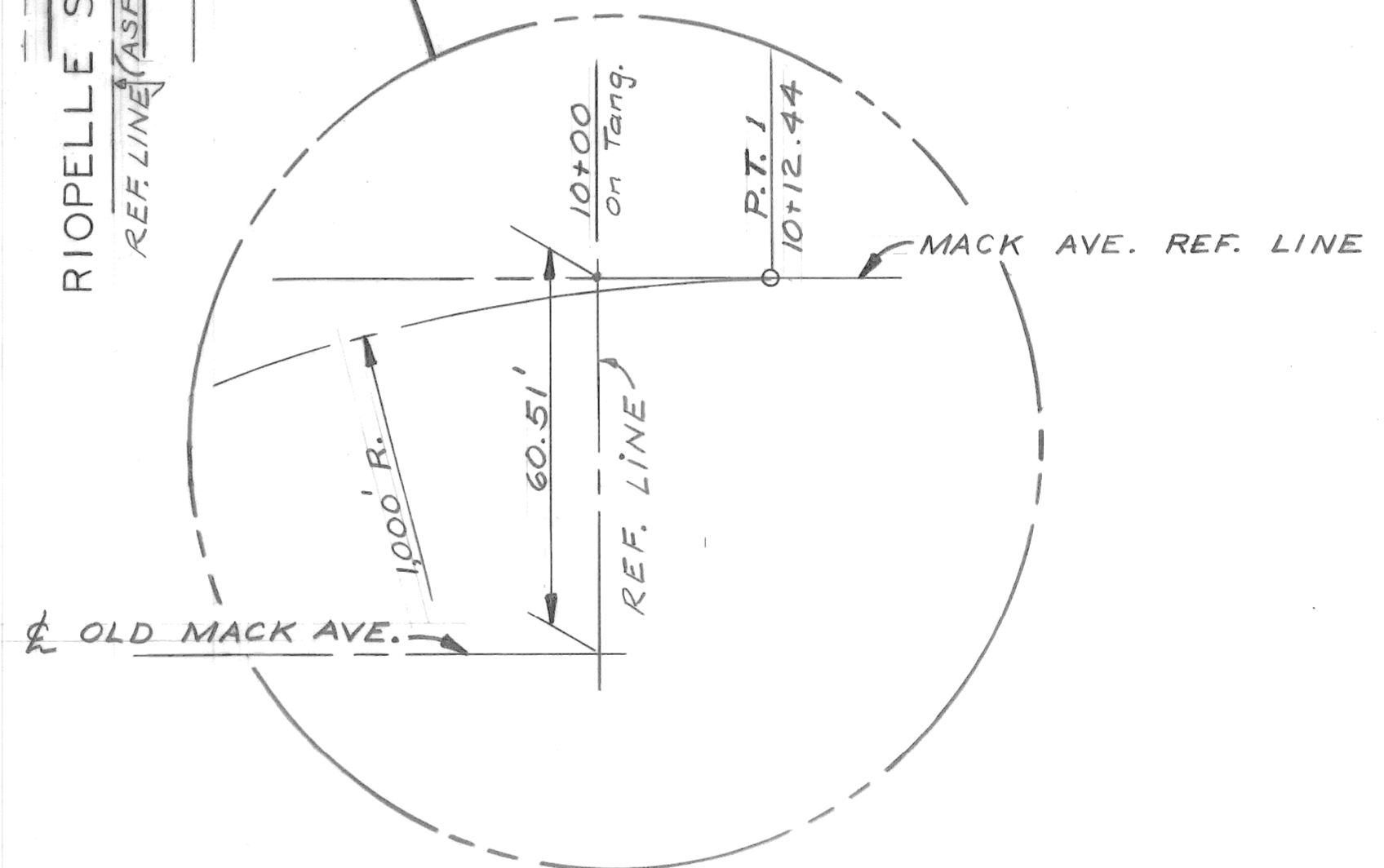
DATE: APRIL , 1990

DRWG. NO. | OF 50



PLAN
SCALE 1"=40'

CURVE #01
 $\Delta = 2^\circ 57' 0.0''$
 $D = 5^\circ 43' 46.48''$
 $R = 1000.00'$
 $T = 25.75'$
 $L = 51.49'$
 $E = 0.33'$
 $P.C. = 9+60.95$
 $P.I. = 9+86.70$
 $P.T. = 10+12.44$



COORD	DESCRIPTION	DRN	CK'D	AP'D	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

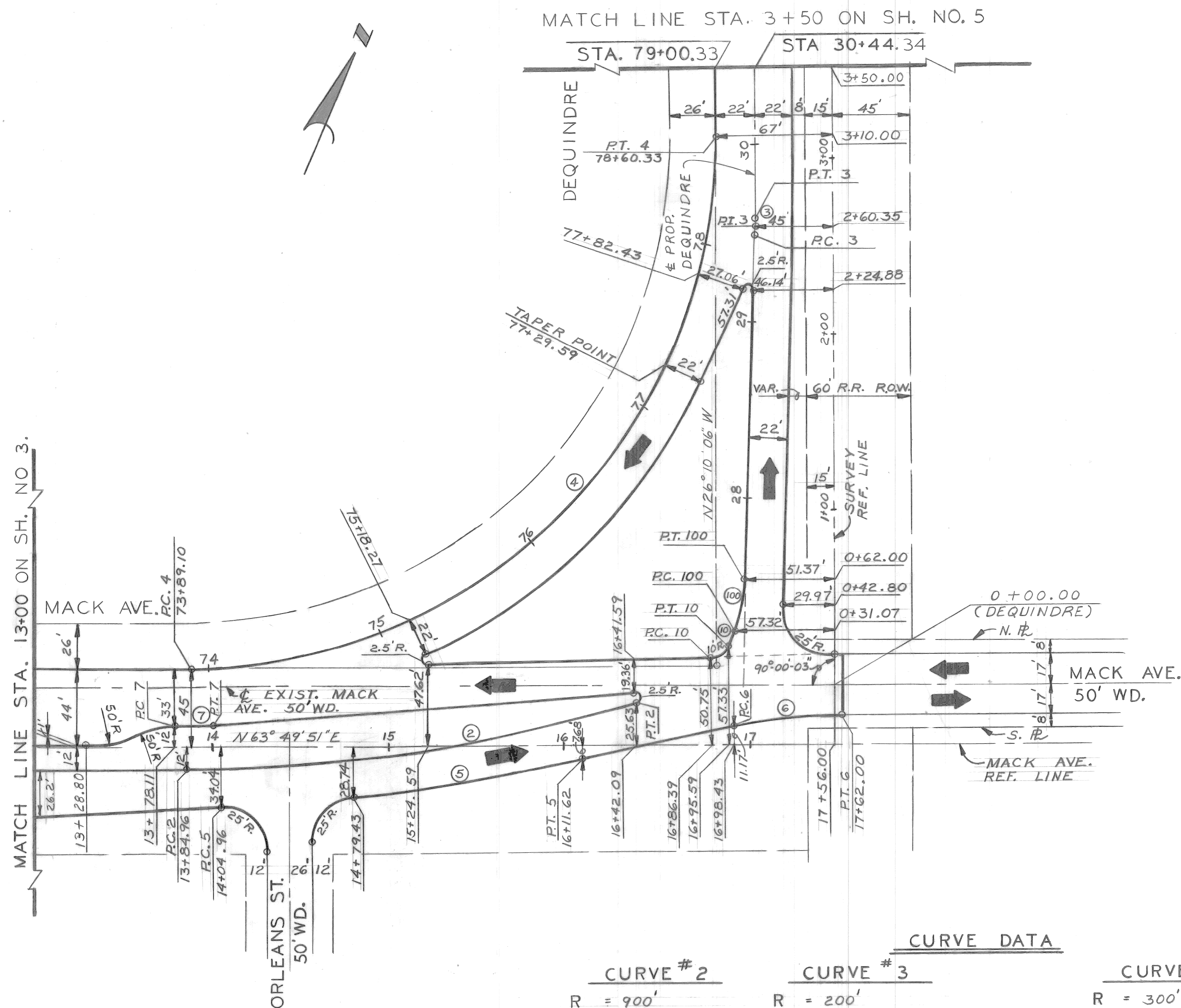
REFERENCE DRAWINGS	DESIGNED BY: <i>R.B.P.</i>	APPROVED: <i>William R. Talley</i> ENGINEER OF STREETS
	DRAWN BY: <i>RR/WB</i>	
	TRACED BY:	
	CHECKED BY: <i>EO/WB</i>	

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

ALIGNMENT SHEET

SHEET 3 OF 56 SHEETS
CONTRACT NO. PW 6691
ASSIGNMENT NO. 90-14-08
DATE APRIL, 1990



CURVE DATA

CURVE # 2

R = 900'
Δ = 16° 37' - 34.5"
T = 131.51'
A = 261.16'
S = 1642°

CURVE # 3

R = 200'
Δ = 1° 50' - 20.9"
T = 3.21'
A = 6.42'

CURVE # 4

R = 300'
Δ = 89° 59' - 57"
T = 300'
A = 471.23'
S = 19,314.16°

CURVE # 5

R = 1200'
Δ = 9° 57' - 82.8"
T = 104.55'
A = 208.58'
S = 629.24°

CURVE # 6

R = 300'
Δ = 12° 15' - 1.8"
T = 32.19'
A = 64.14'
S = 73.14°

CURVE # 7

R = 300'
Δ = 4° 11' - 39.3"
T = 10.99'
A = 21.97'
S = 2.94°

CURVE # 10

R = 10'
Δ = 68° 55' - 47.7"
T = 6.86'
A = 12.03'
S = 13.49°

CURVE # 100

R = 100'
Δ = 18° 7' - 20.4"
T = 15.95'
A = 31.63'
S = 26.24°

PLAN
SCALE 1"=40'

DESIGNED BY	RBP LISTON	APPROVED:	<i>William L. Talley</i> ENGINEER OF STREETS
DRAWN BY	R Rosik		
TRACED BY			
CHECKED BY	LISTON		

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS

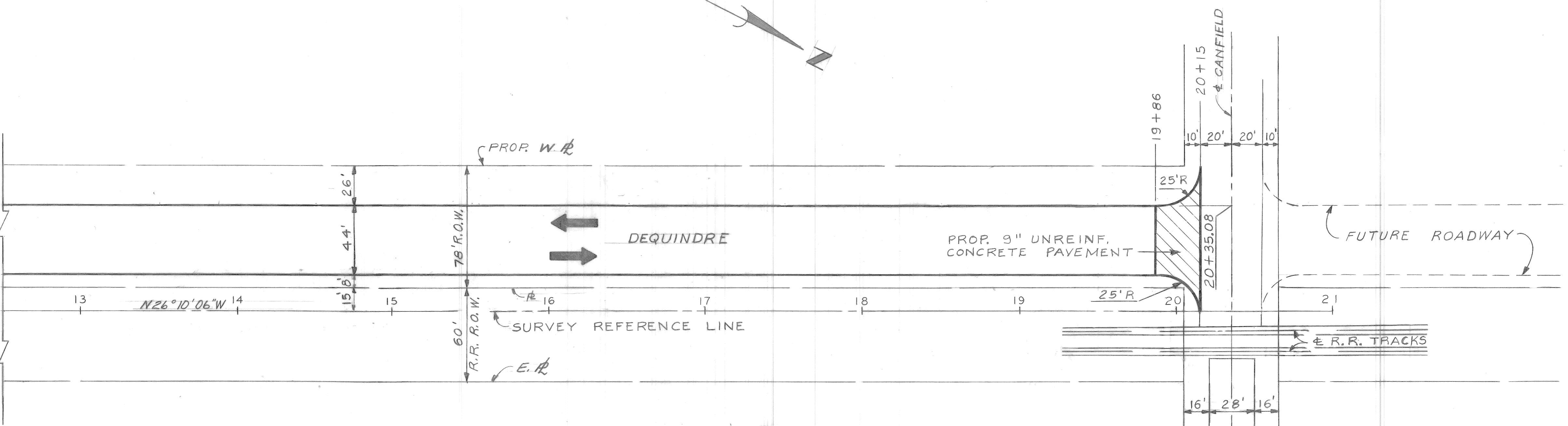
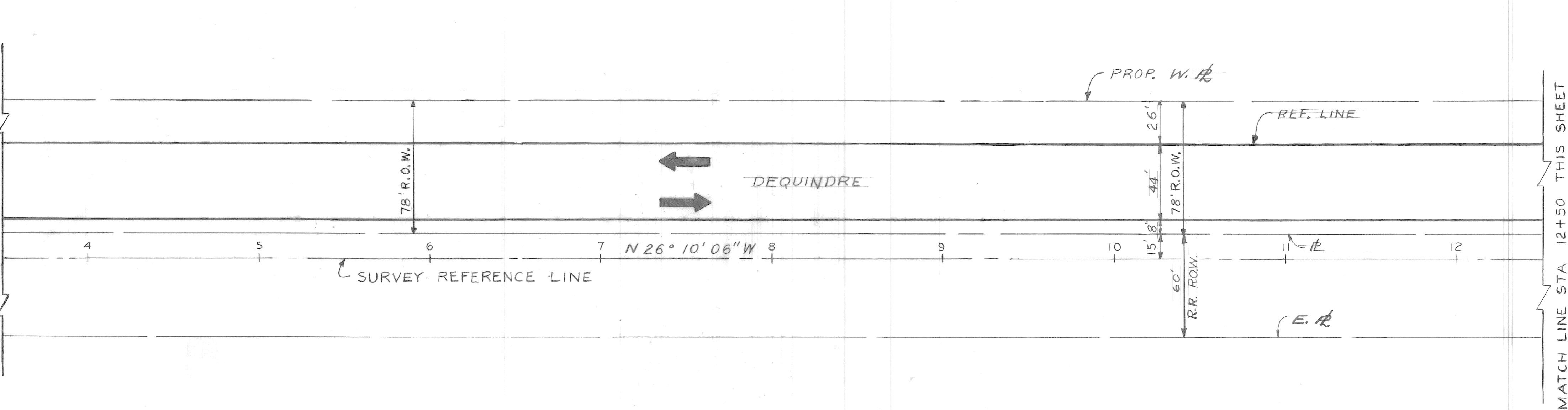
PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO THE GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

ALIGNMENT SHEET

SHEET 4 OF 56 SHEETS
CONTRACT NO. PW 6691
ASSIGNMENT NO 90-14-08
DATE APRIL, 1990

MATCH LINE STA. 3+50 ON SH. NO. 4.

MATCH LINE STA. 12+50 THIS SHEET



COORD	DESCRIPTION	DRN	CHK'D	APVD	DATE

REVISIONS LOCATED BY COORDINATES ON SHEET

DESIGNED BY	RBP
DRAWN BY	L.G.
TRACED BY	
CHECKED BY	E.O./W.B.

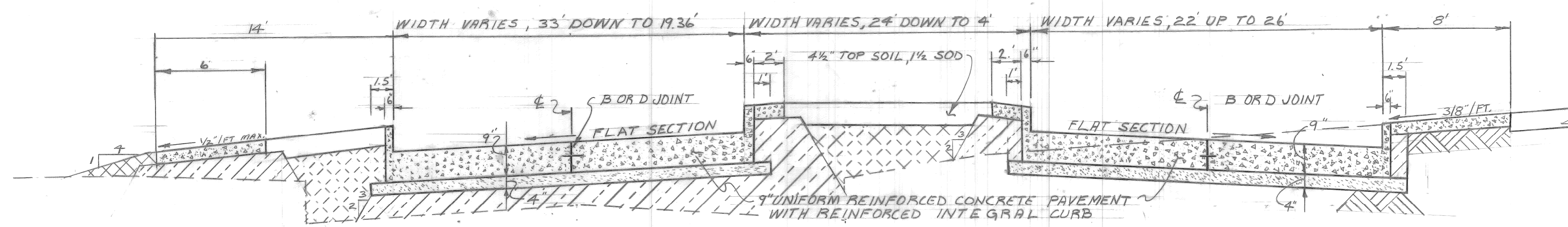
APPROVED:
William L. Talley
 ENGINEER OF STREETS

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK RR, ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

ALIGNMENT SHEET

SHEET 5 OF 56 SHEETS
 CONTRACT NO. PW 6691
 ASSIGNMENT NO. 90-14-08
 DATE APRIL, 1990



TYPICAL SECTION STATION 13+78.11 TO 16+42.09
MACK AVE.

EARTHWORK LEGEND

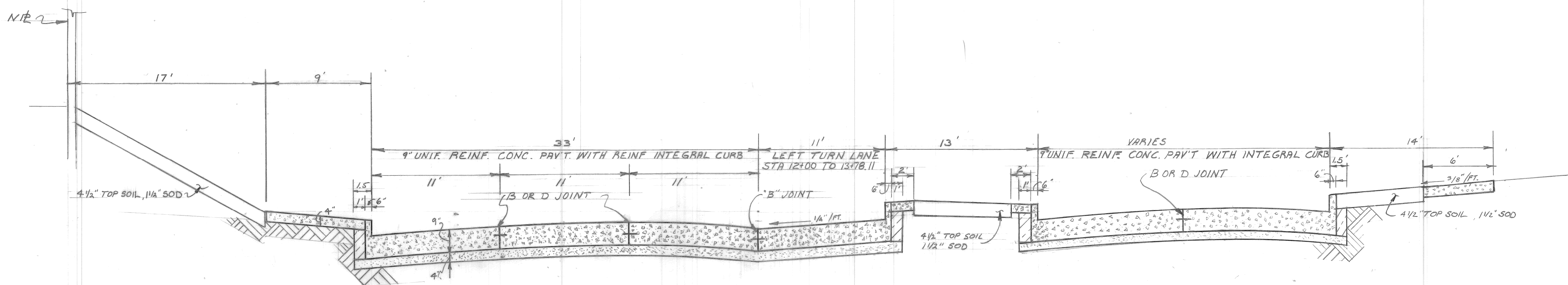
- SELECTED EXCAVATED MATERIAL
- FILL (GRADE A)
- FILL (22A)

JOINT LEGEND

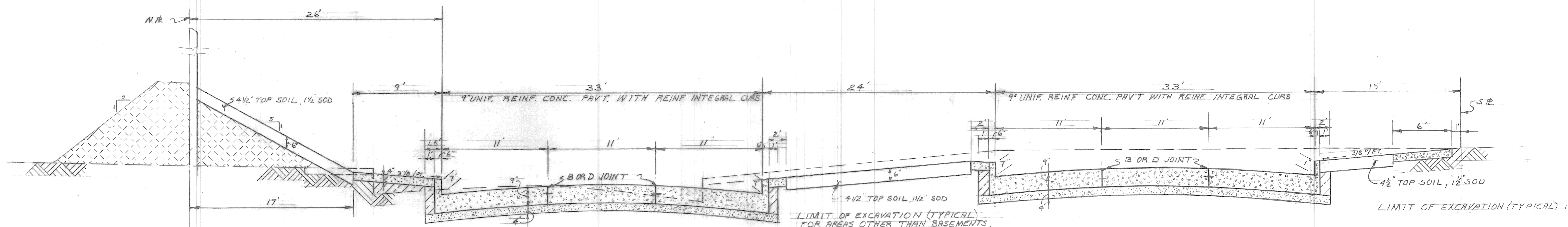
- B LONGITUDINAL BULKHEAD CONSTRUCTION JOINT. SEE STANDARD DRAWING NO. C-4943, DETAIL NO. 2
- D LONGITUDINAL LANE TIE JOINT. SEE STANDARD DRAWING C-4943, DETAIL NO. 1

NOTES

- 1) CONCRETE PAVEMENT SHALL BE IN ACCORDANCE TO STANDARD DRAWING NO. C-4942
- 2) REINFORCED INTEGRAL CURB SHALL BE IN ACCORDANCE TO STANDARD DRAWING NO. C-4943
- 3) JOINTS IN PAVEMENT SHALL BE AS STANDARD DRAWINGS NO'S. C-4943, C-4993, C-4991, C-4992 AND C-4462



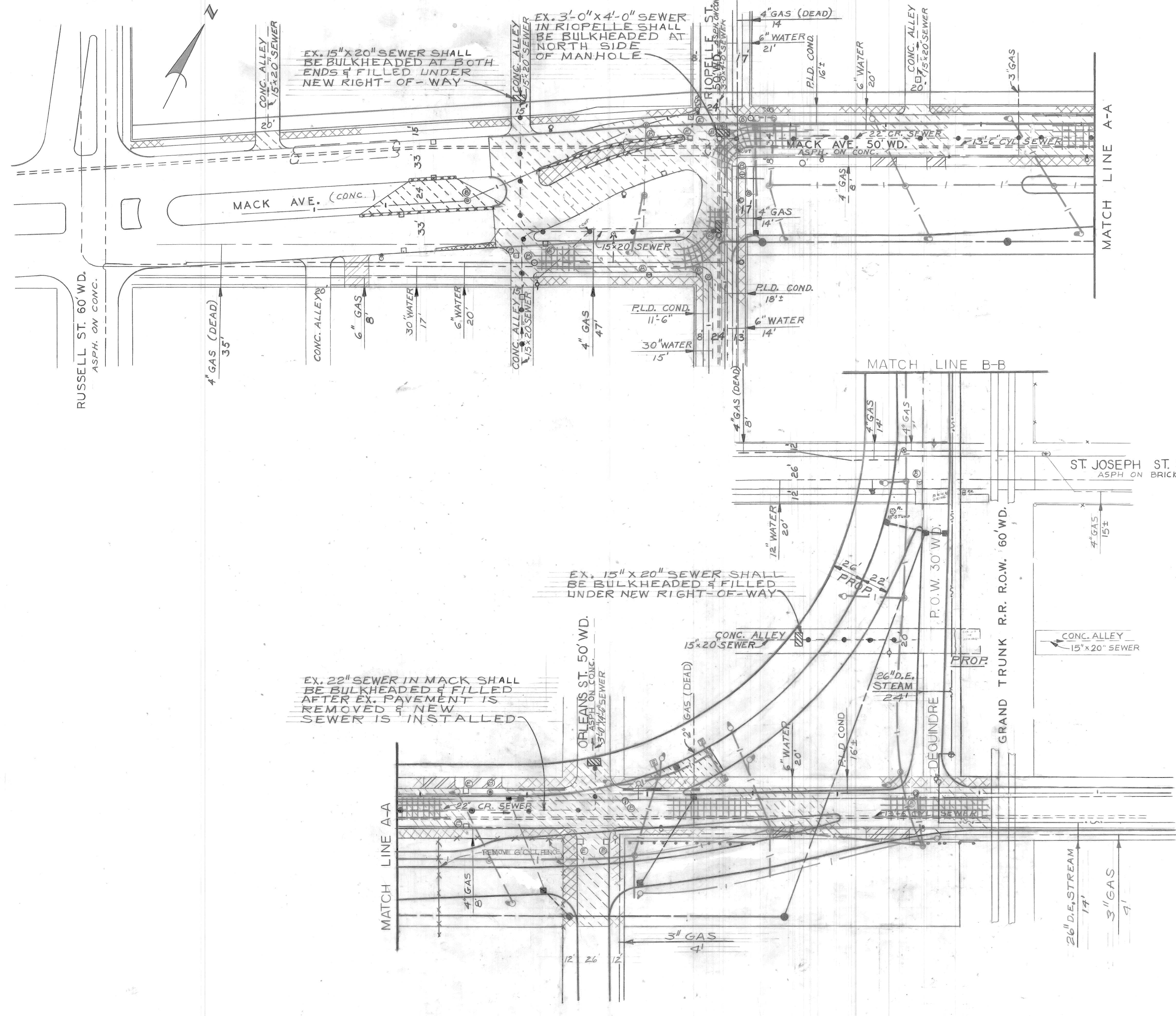
TYPICAL SECTION STATION 11+30 TO 13+78.11
MACK AVE.



TYPICAL SECTION STATION 8+5 TO 11+30
MACK AVE.

OBSOLETE

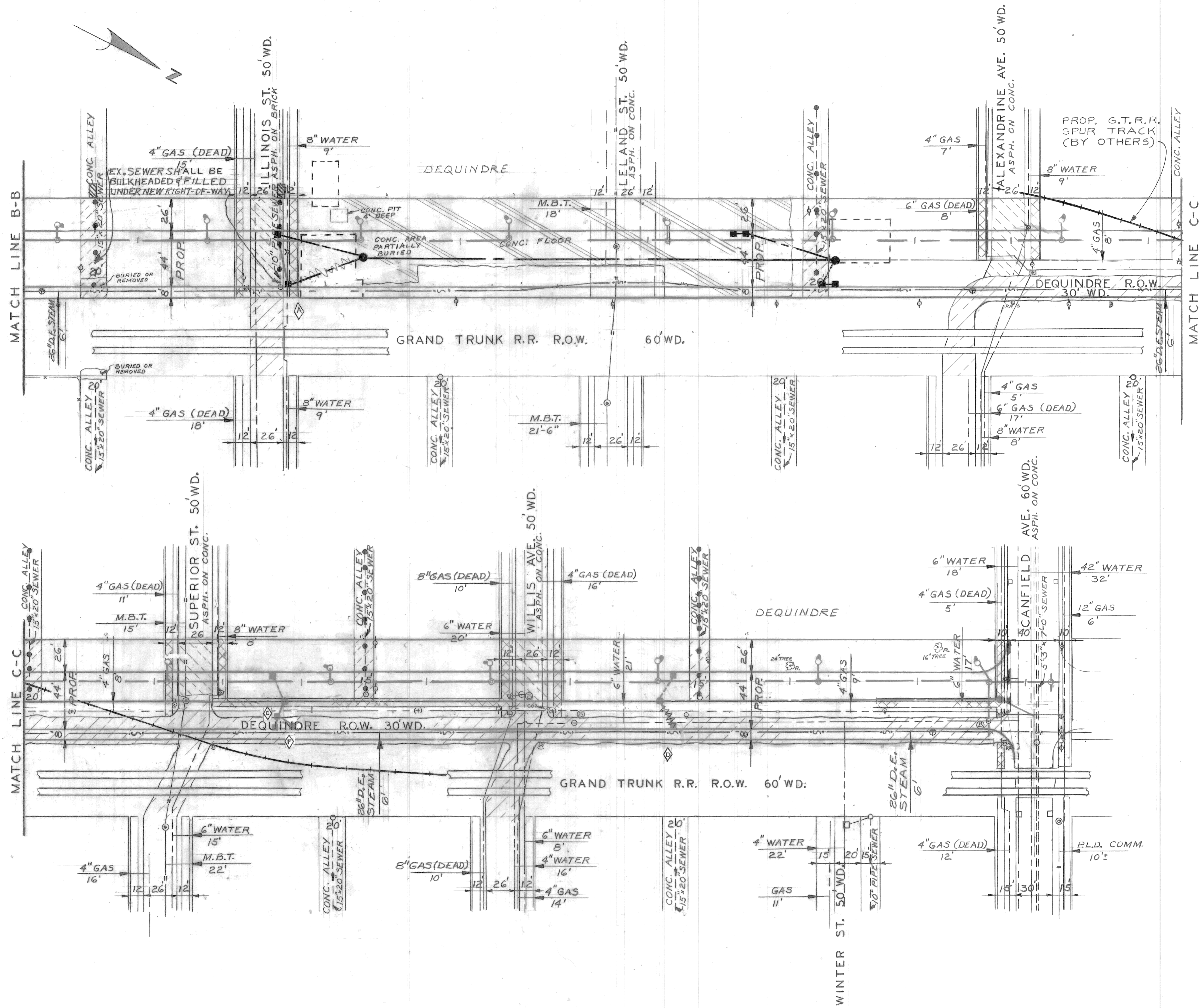
REFERENCE DRAWINGS		DESIGNED BY	APPROVED:	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	PAVING OF MACK FROM ALLEY WEST OF RIPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT	SHEET 6 OF 52 SHEETS
		DRAWN BY LISTON	<i>Haim O'Leary</i> ENGINEER OF STREETS			CONTRACT NO. PW 6691
		TRACED BY				ASSIGNMENT NO. 81-14-14B
		CHECKED BY R.Y.				DATE MARCH 9, 1984
COORD	DESCRIPTION	DRN	CK'D	AP'D	DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET						



- ### LEGEND
- STREET PAVEMENT REMOVAL
 - ALLEY PAVEMENT REMOVAL
 - CONCRETE ISLAND REMOVAL
 - SIDEWALK REMOVAL
 - DRIVEWAY REMOVAL
 - CONCRETE SLAB REMOVAL
 - SEPARATE TYPE CURB REMOVAL
 - TREE REMOVAL
 - ADJUST MANHOLE
 - ABANDON CATCH BASIN
 - INTEGRAL CURB REMOVAL
 - DOUBLE STREETCAR TRACK AND BASE REMOVAL
 - BARRICADE REMOVAL - 26' LENGTH
 - REPLACE CATCH BASIN GRATE WITH SOLID COVER (SH. 14)
 - RECONSTRUCT MANHOLE CONE (SHEET 14)
- ### NOTES
- BEFORE STARTING CONSTRUCTION CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS
 - FOR UTILITY LEGEND SEE STD. DRAWING C-902-A

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7344

REVISIONS LOCATED BY COORDINATES ON SHEET COORD DESCRIPTION DR'N CK'D AP'VD DATE		REFERENCE DRAWINGS DESIGNED BY DRAWN BY <i>R. Rosik 11/10/82</i> TRACED BY CHECKED BY <i>LISTON</i>	APPROVED: <i>William L. Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT UTILITY AND REMOVAL	SHEET <u>7</u> OF <u>56</u> SHEETS CONTRACT NO. PW 6691 ASSIGNMENT NO. 90-14-08 DATE APRIL, 1990
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FOR NOTES AND LEGEND SEE SHEET 7

◆	REVISED SEWER PIPE	MK	7/30	REFERENCE DRAWINGS	DESIGNED BY	
◆	ADDITIONAL PROP. CATCH BASIN	MK	7/30		DRAWN BY	R Rosik 11/10/82
◆	ADDITIONAL PROP. CATCH BASIN	MK	7/30		TRACED BY	
◆	DELETE PROP. CATCH BASIN	MK	7/30		CHECKED BY	LISTON
COORD	DESCRIPTION	DR'N	CK'D	AP'VD	DATE	
REVISIONS LOCATED BY COORDINATES ON SHEET						

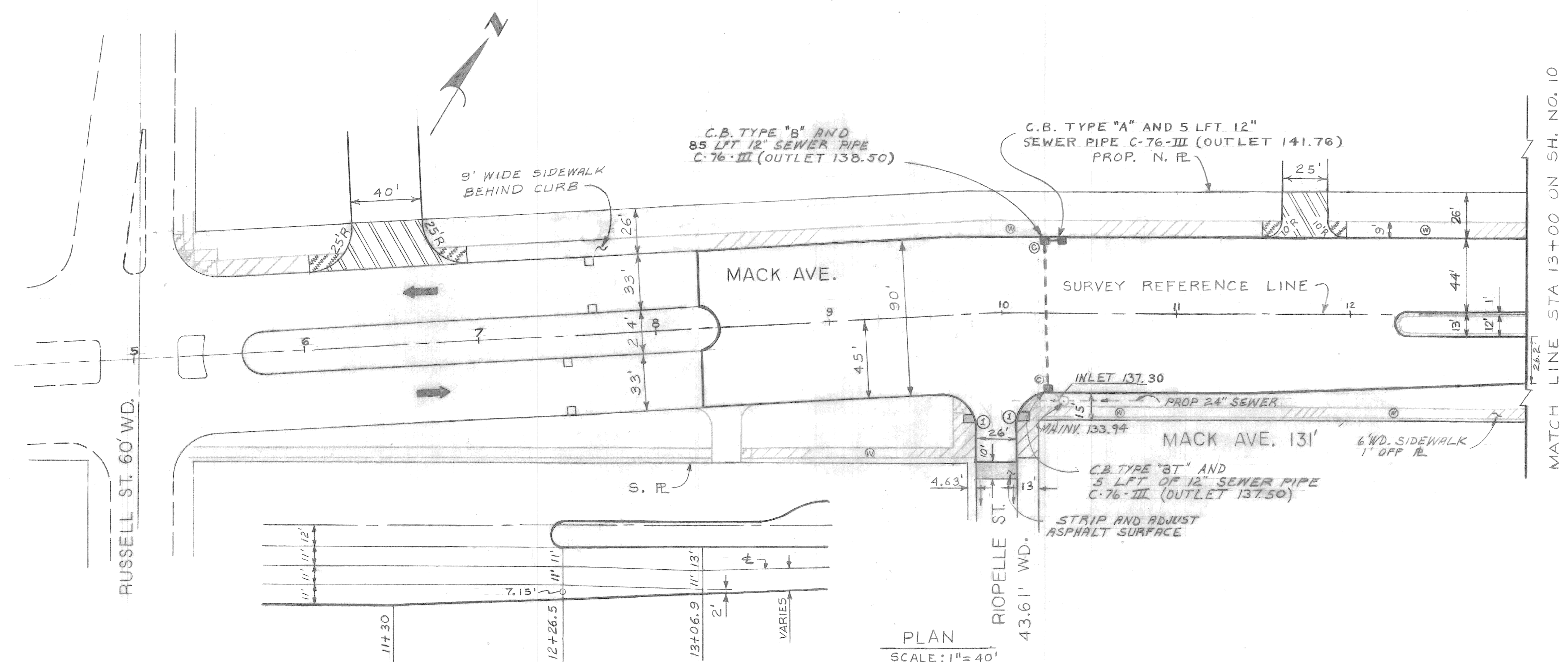
APPROVED:
William R. Talley
 ENGINEER OF STREETS

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

SHEET 8 OF 56 SHEETS
 CONTRACT NO. PW 6691
 ASSIGNMENT NO. 90-14-08
 DATE APRIL, 1990

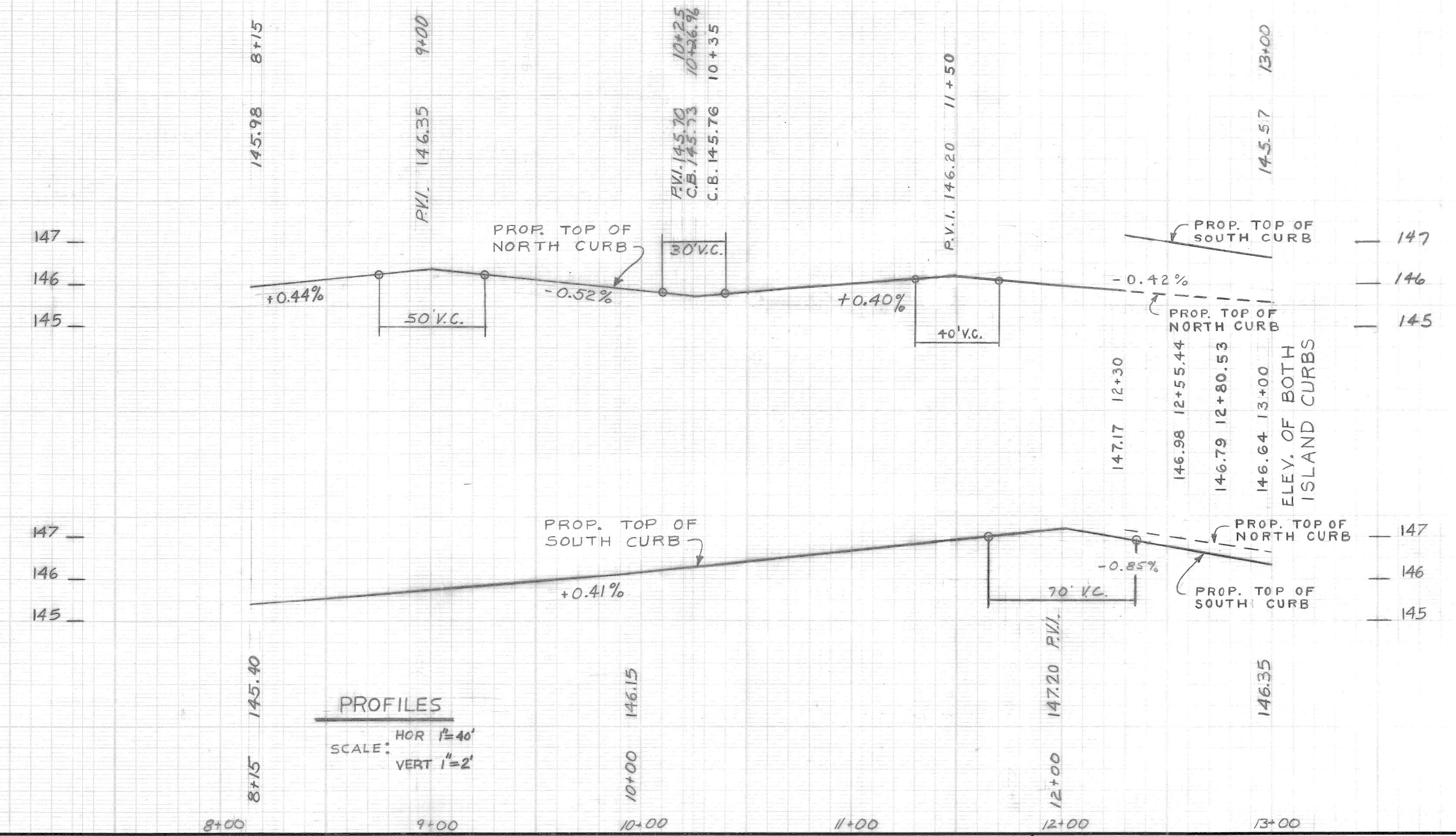
BENCH MARKS	ELEV
HYD E. SIDE RUSSELL ± 80' N OF MACK	EL. 148.87
HYD ± 200' N OF S. MACK E. SIDE RIOPELLE	EL. 148.50
R.R. SPK IN U. POLE ± 150' S OF MACK AVE ± 50' W PL-ORLEANS	EL 147.50
R.R. SPK U. POLE E. SIDE R.R. ROW AT STA. 1+50N	EL 149.83
P.B.M # 40-350 LEL AND BRG. # I-75 AT N. BD. SERVICE DR.	EL. 149.10



JOINT LAYOUT EASTBOUND MACK - RIOPELLE TO ORLEANS SCALE: 1"=40'

- ### CONSTRUCTION LEGEND
- CONSTRUCT 4" STD. SIDEWALK
 - CONSTRUCT 6" STD. SIDEWALK
 - CONSTRUCT SIDEWALK RAMP TYPE I
 - CONSTRUCT CATCH BASIN
 - CONSTRUCT SEWER PIPE
 - CONSTRUCT STD. SEWER MANHOLE
 - CONSTRUCT SIDEWALK RAMP TYPE III
 - PROPOSED RAIL-ROAD SPUR TRACK.
 - CONSTRUCT 9" UNIFORM UNREIN. CONC. PAVEMENT W/ UNREIN. CONC. CURB
 - STRIP & ADJUST ASPHALT SURFACE.
 - CONSTRUCT 8" CONCRETE DRIVEWAY

- ### CONSTRUCTION NOTES:
1. CONSTRUCT SIDEWALK AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. PAVEMENT TO BE 9" UNIFORM REINFORCED CONCRETE WITH INTEGRAL CURB UNLESS OTHERWISE NOTED.
 3. ALL SIDEWALK RAMP WILL BE TYPE III UNLESS OTHERWISE NOTED.
 4. FOR TYPICAL SECTIONS SEE SHEET # 6
 5. FOR QUANTITIES SEE SHEET # 17
 6. SEE ALIGNMENT ON SHEETS # 3-5
 7. FOR LAWN MOWER RAMPS SEE STREET PAVING STANDARD DRAWING # C-5239
 8. EXACT LOCATIONS OF PROPOSED DRIVEWAYS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



PROFILES SCALE: HOR 1"=40' VERT 1"=2'

DESCRIPTION	DRN	CK'D	AP'D	DATE
REVISIONS				
BY	R.Y.	CHECKED BY	LISTON	APPROVED:
GRADE	LISTON			<i>William R. Talley</i> ENGINEER OF STREETS
ESTIMATE	R.Y.	LISTON		
FINAL	CHECK LISTON	REVIEW TALLEY		

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS

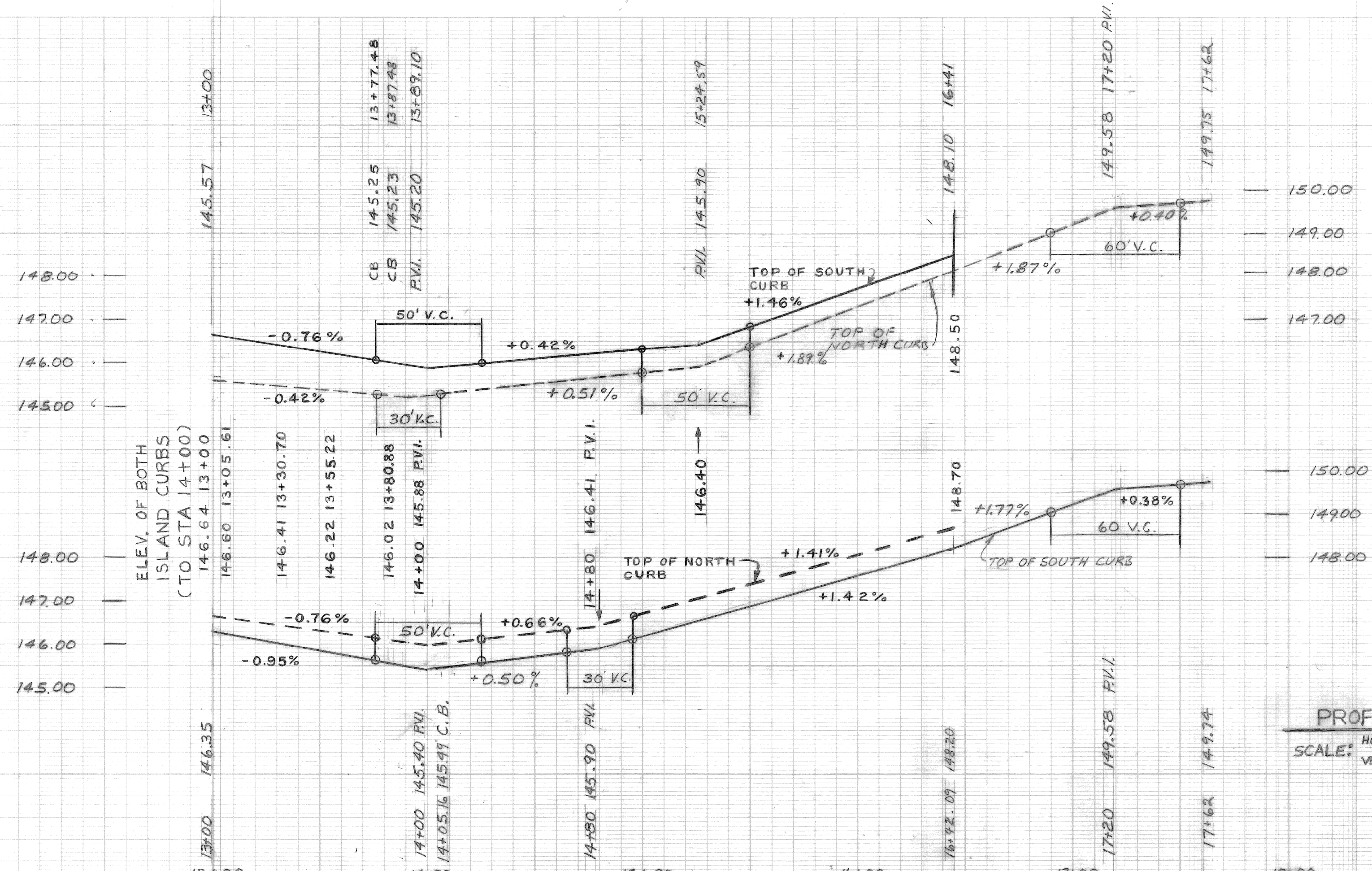
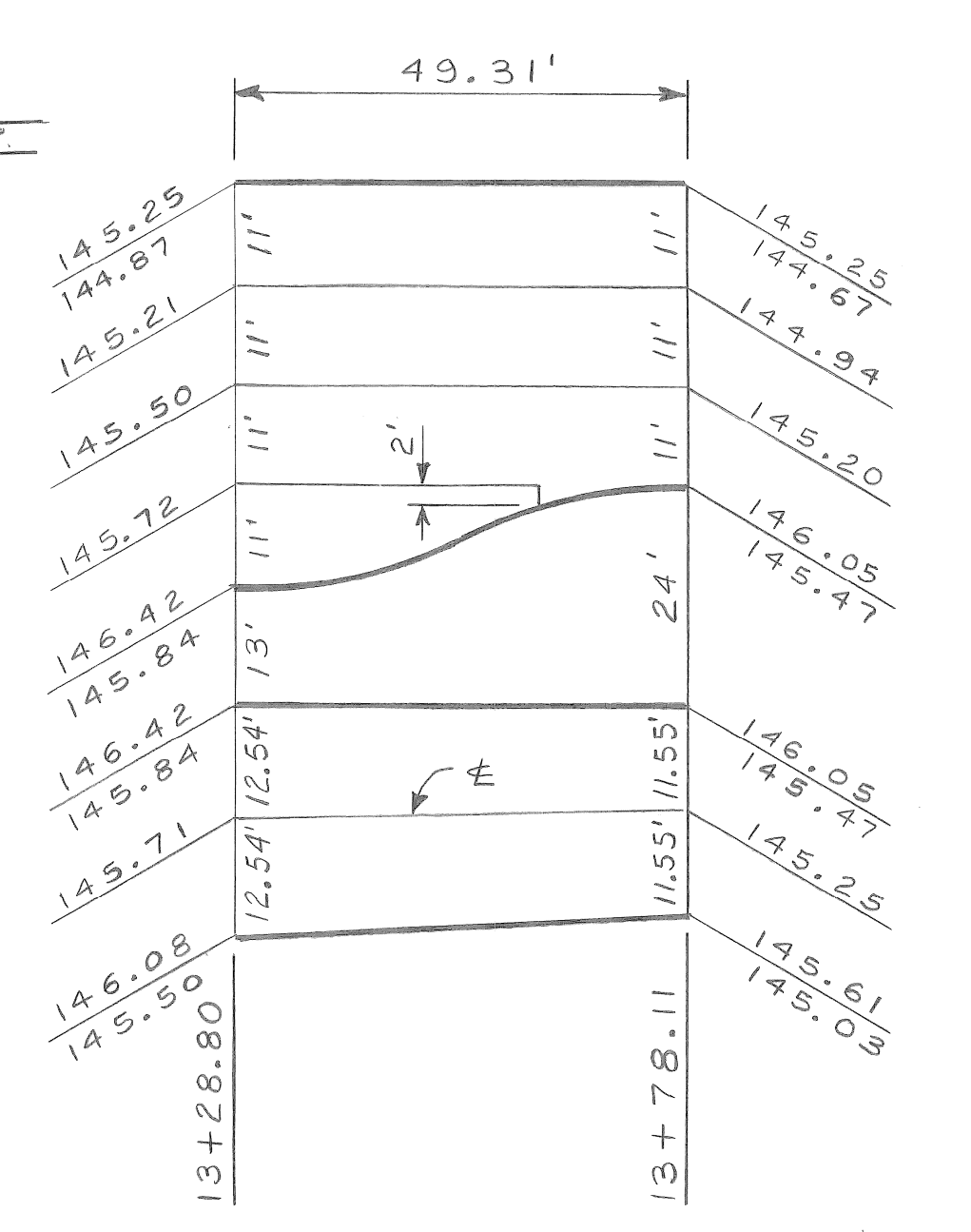
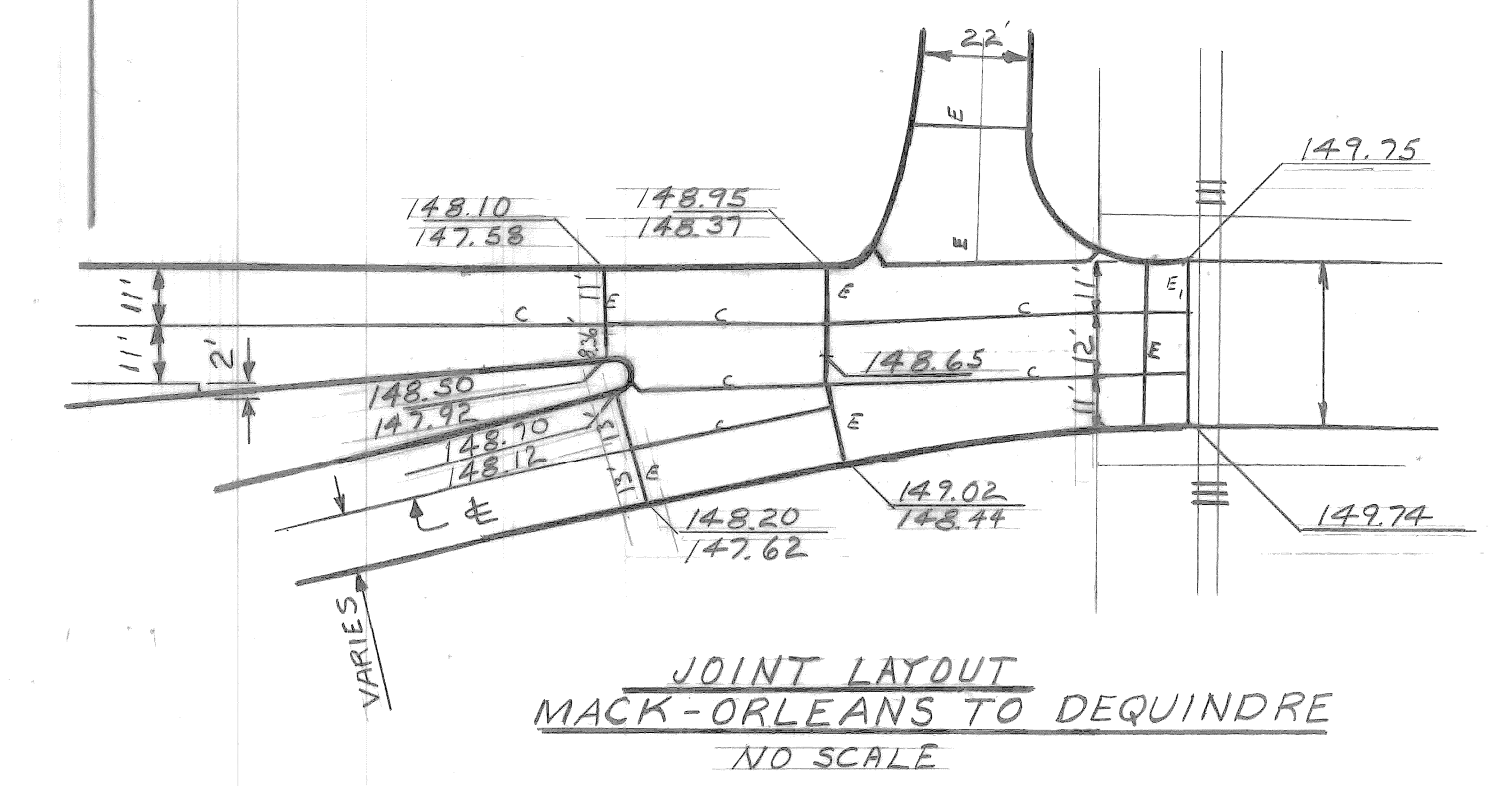
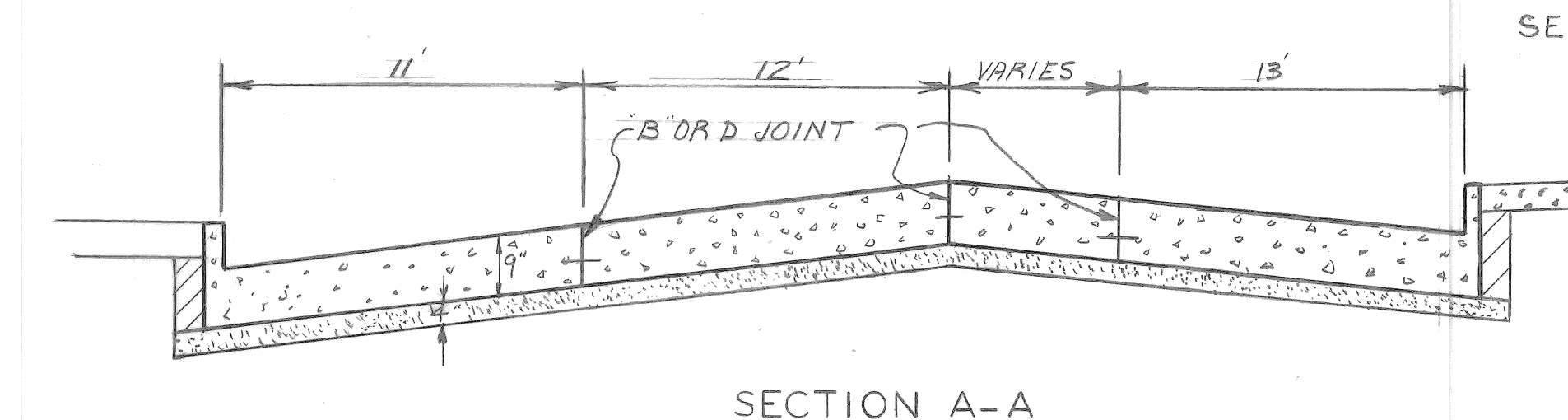
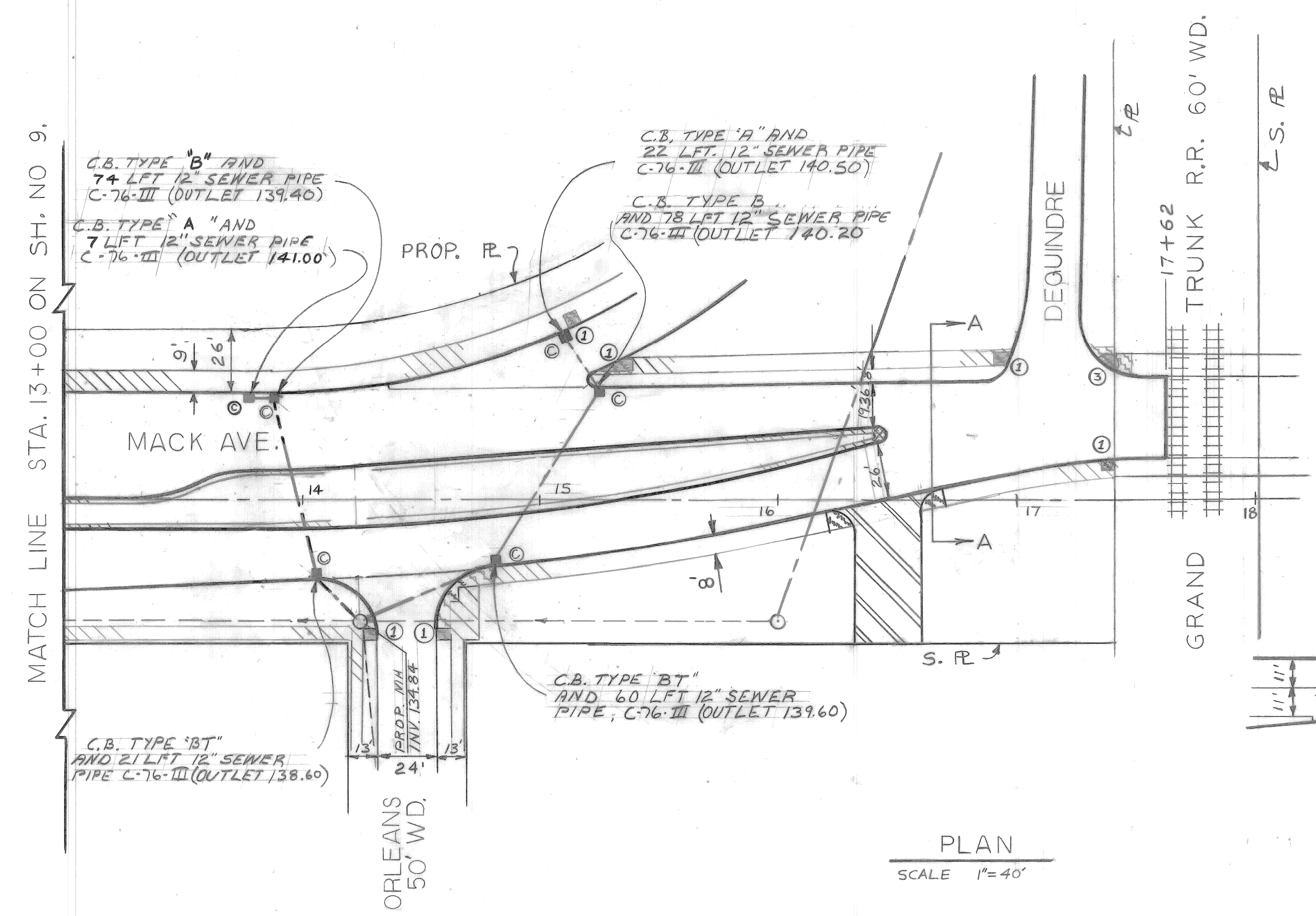
PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK P.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

PAVING PLAN

INDEX NO.	13	SHEET 9 OF 56 SHEETS
CONTRACT NO.	40	PW 6691
ASSIGNMENT NO.		90-14-08
DATE		APRIL, 1990

BENCH MARKS ELEV
 R.R. SPK U. POLE E. SIDE R.R. R.O.W. AT STA 14+50N EL. 149.83
 HYD N. SIDE MACK ±50' E. OF R.R. TRACK EL. 150.67

SEE LEGEND AND NOTES ON SHEET NO. 9.



DESCRIPTION	DRN	CK'D	AP'D	DATE
REVISIONS				
BY	R.Y.	CHECKED BY	LISTON	APPROVED:
GRADE	LISTON			<i>William R. Talley</i> ENGINEER OF STREETS
ESTIMATE	R.Y.	REVIEW	LISTON	
FINAL	LISTON	CHECK	TALLEY	

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT
 PAVING PLAN

INDEX NO.	13	SHEET 10 OF 56 SHEETS
CONTRACT NO.	40	PW 6691
ASSIGNMENT NO.		90-14-08
DATE		APRIL, 1990

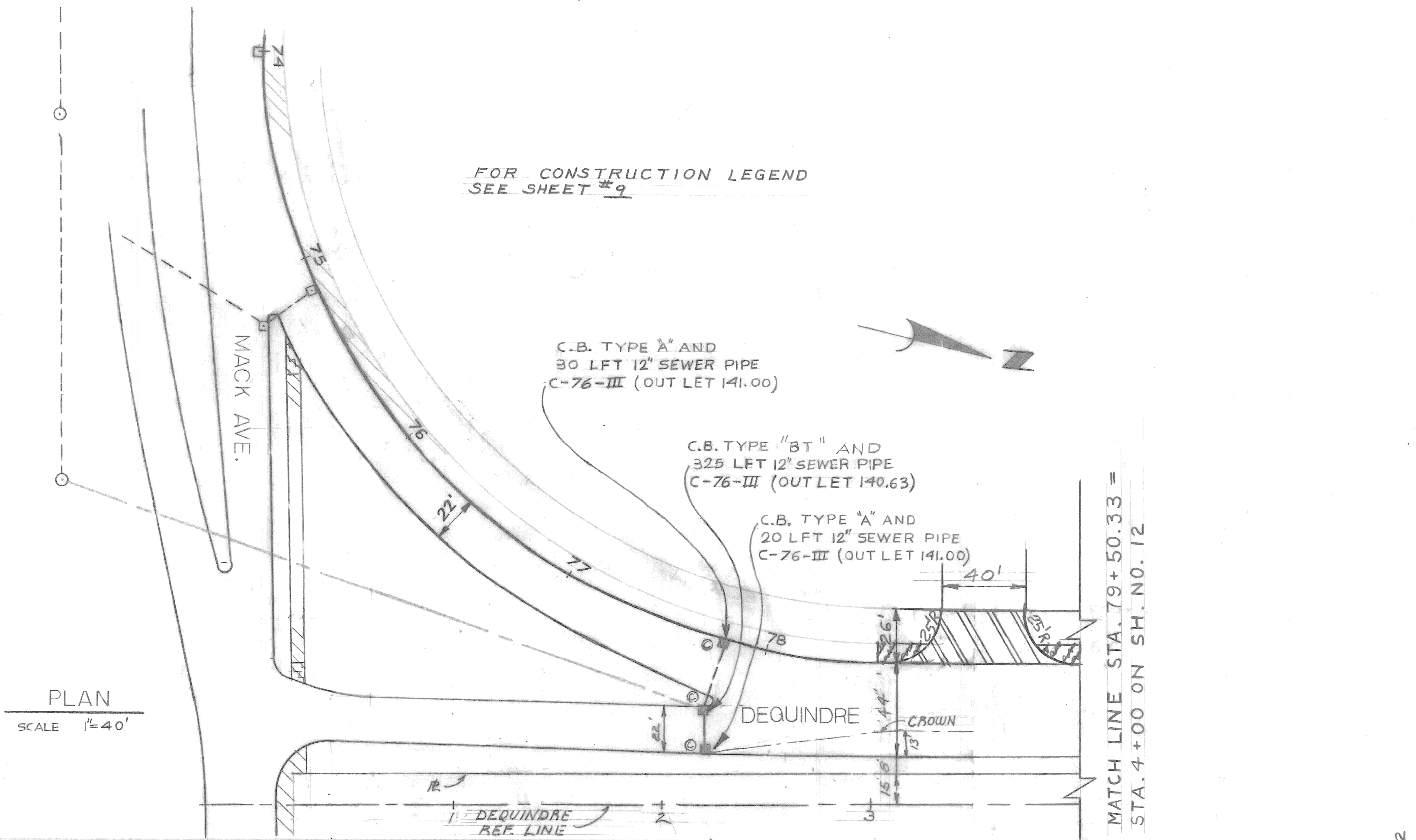
SCALE	HORIZONTAL 1"=40'	VERTICAL 1"=2'
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BOOK	LL 40 D (II)
NO.	PG.
DATE	JULY-82
PAVING COMPLETED	

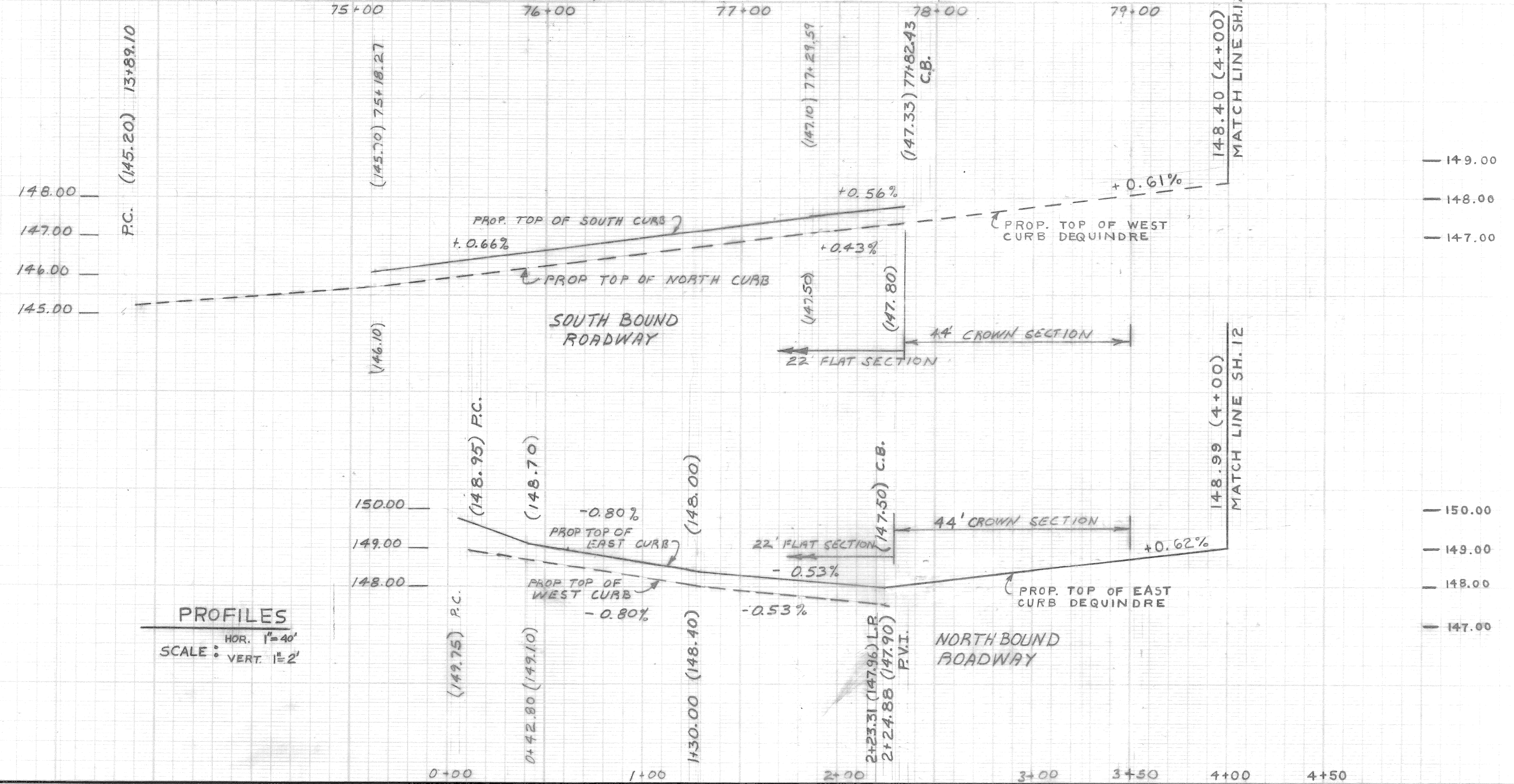
BEFORE STARTING CONSTRUCTION CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

NOTE - FOR SYMBOLS (C) ETC., SEE STANDARD DETAIL DRAWING NO. C-473

BENCH MARKS ELEV



PLAN
SCALE 1"=40'



PROFILES
HOR. 1"=40'
SCALE: VERT. 1"=2'

2-10-84

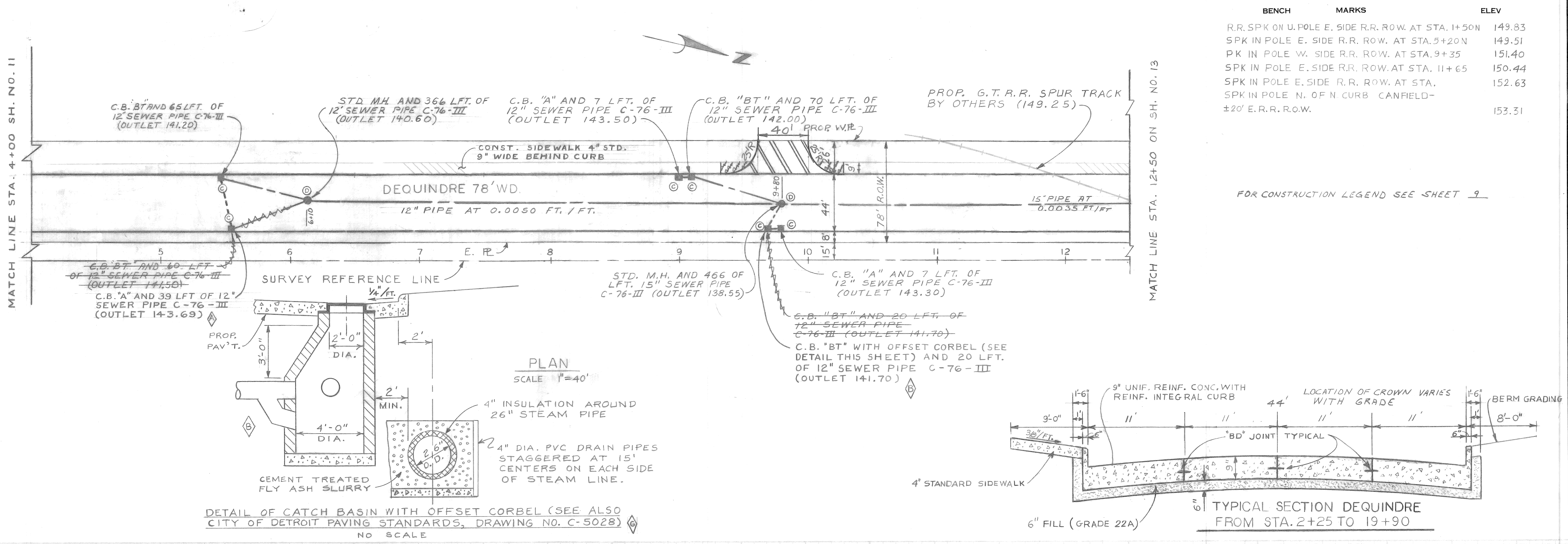
DESCRIPTION	DRN	CHK'D	AP'D	DATE
REVISIONS				
BY	R.Y.	CHECKED BY	LISTON	APPROVED
GRADE	LISTON			<i>William R. Talley</i> ENGINEER OF STREETS
ESTIMATE	R.Y.	LISTON		
FINAL	LISTON	TALLEY		

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

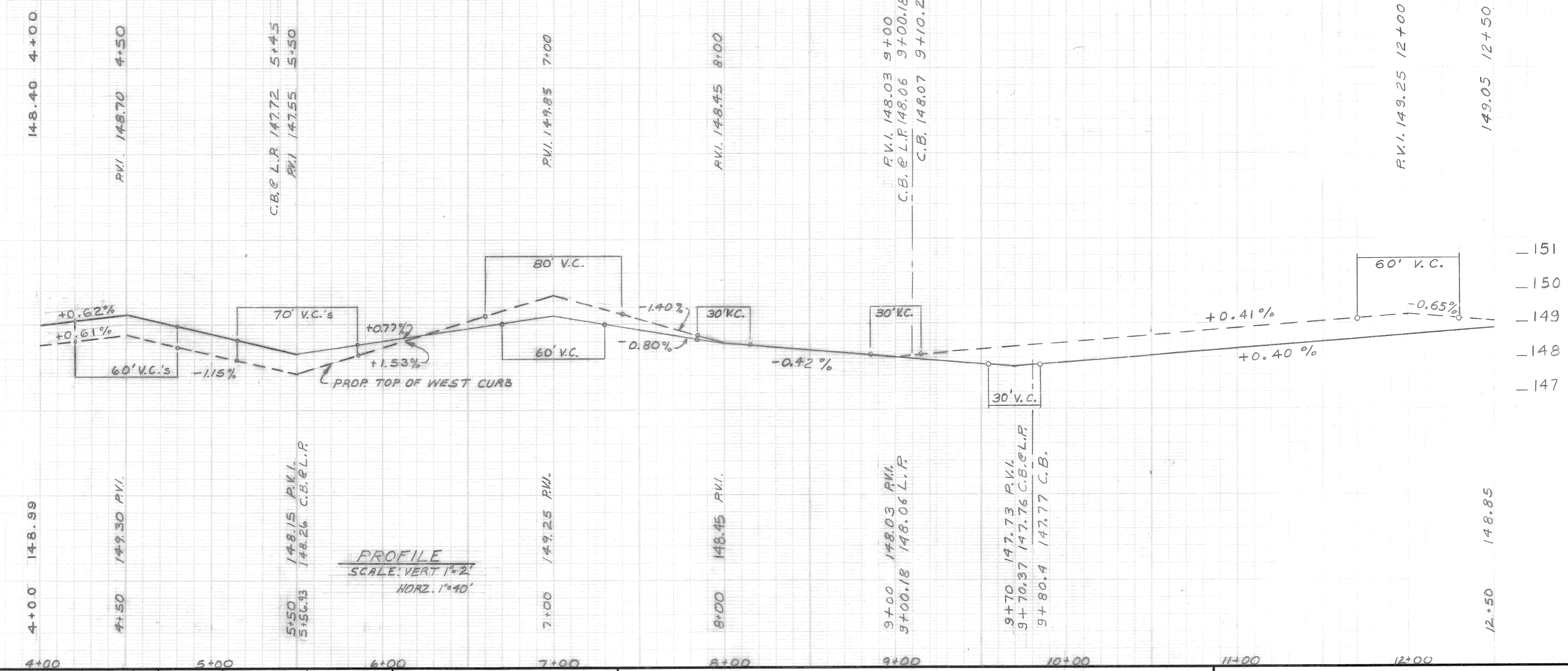
PAVING PLAN

INDEX NO.	13	SHEET 11 OF 56 SHEETS
CONTRACT NO.	PW 6691	
ASSIGNMENT NO.	90-14-08	
DATE	APRIL, 1990	

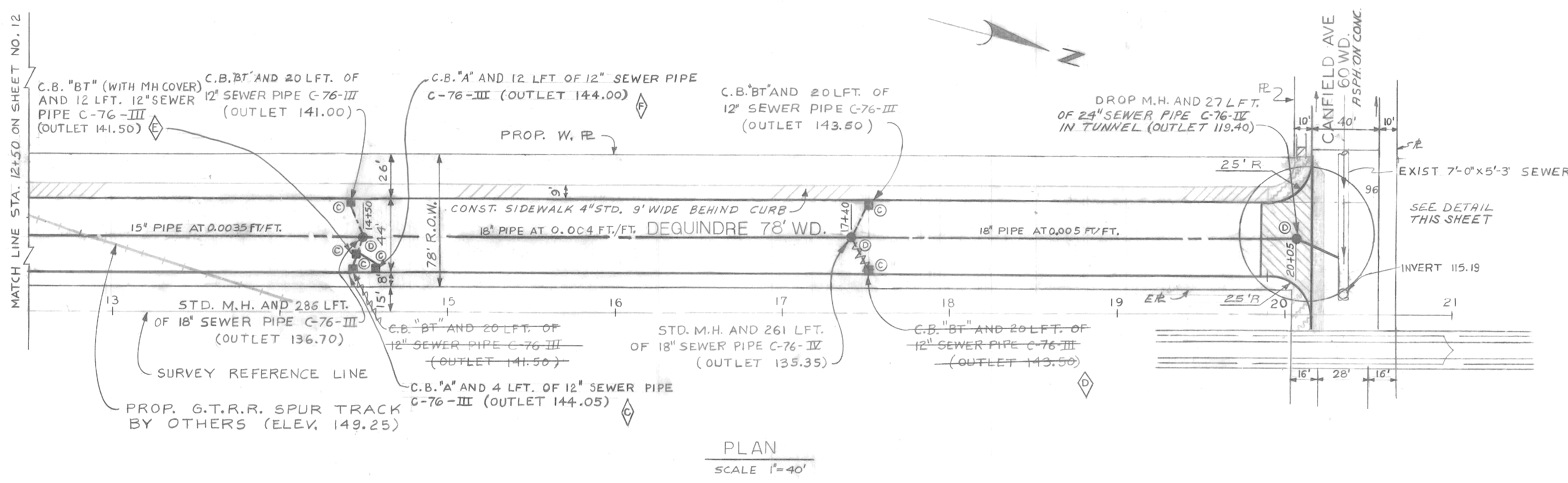


BENCH MARKS	ELEV
R.R. SPK ON U. POLE E. SIDE R.R. ROW. AT STA. 1+50N	149.83
SPK IN POLE E. SIDE R.R. ROW. AT STA. 5+20N	149.51
PK IN POLE W. SIDE R.R. ROW. AT STA. 9+35	151.40
SPK IN POLE E. SIDE R.R. ROW. AT STA. 11+65	150.44
SPK IN POLE E. SIDE R.R. ROW. AT STA. 152.63	152.63
SPK IN POLE N. OF N CURB CANFIELD- ±20' E.R.R. R.O.W.	153.31

FOR CONSTRUCTION LEGEND SEE SHEET 9

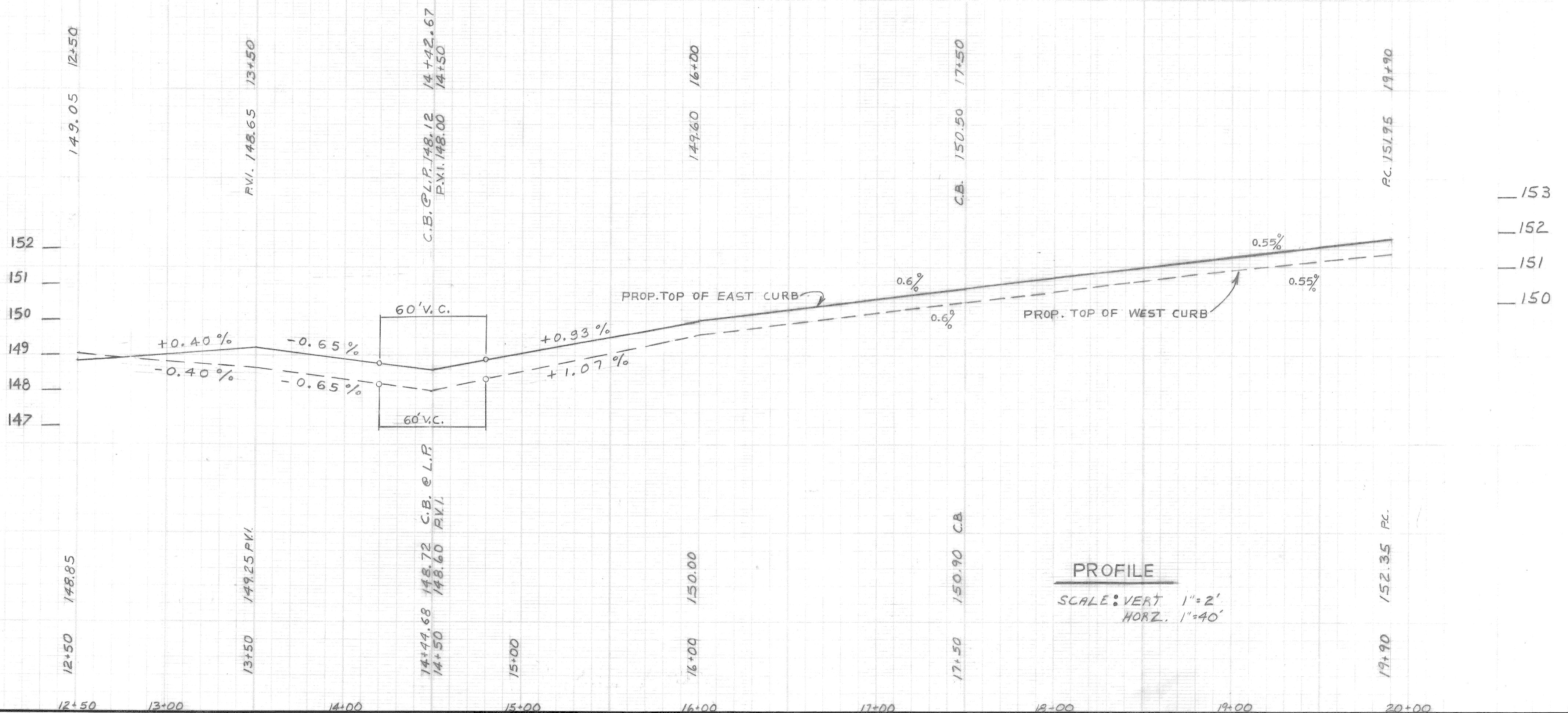
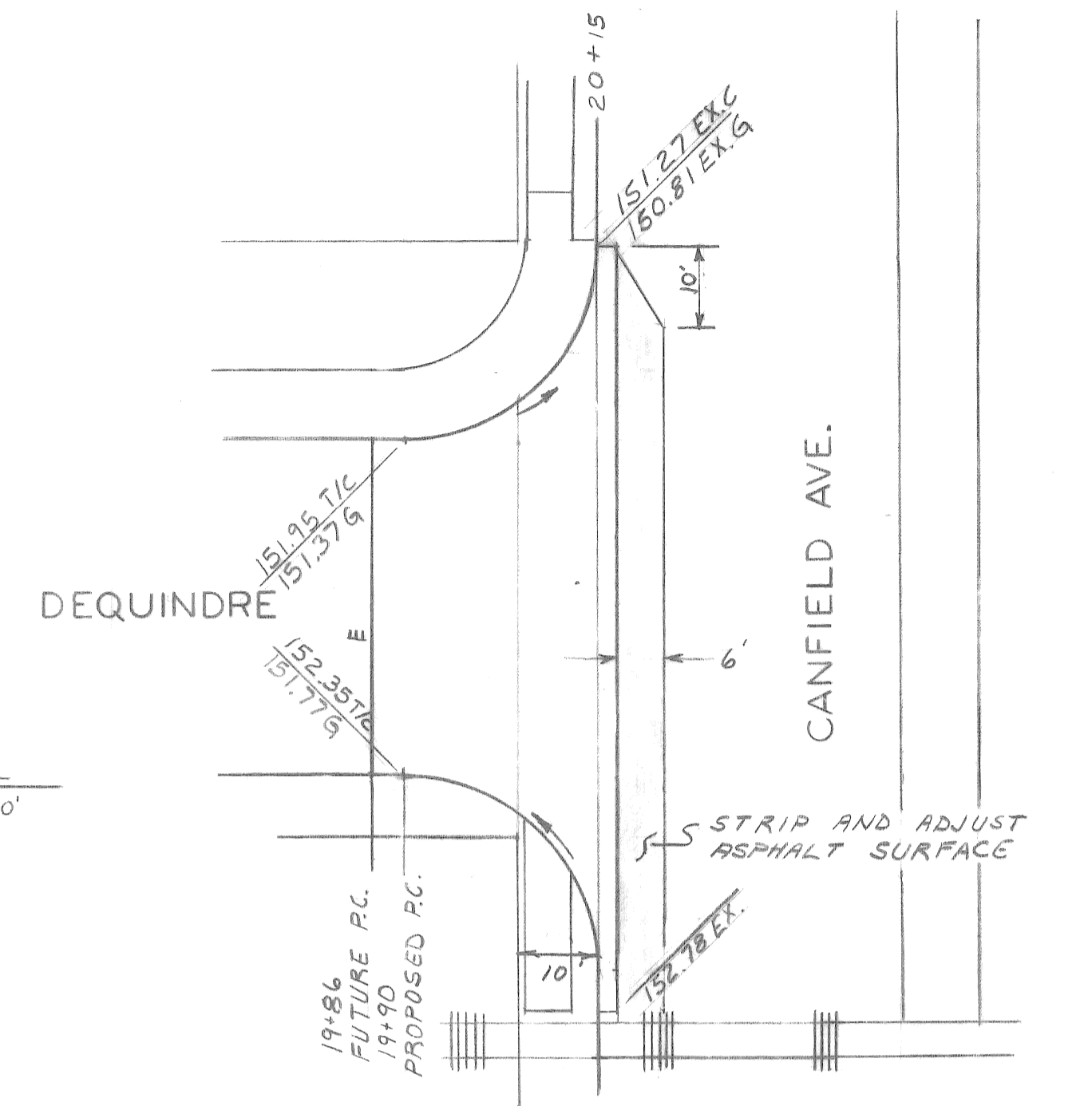


REVISIONS 1. REVISED PROP. CATCH BASIN TYPE, OUTLET ELEVATION, & LENGTH & DIRECTION OF PROP. SEWER AS SHOWN MK INW 7/90 2. MODIFIED PROP. CATCH BASIN AS SHOWN MK INW 7/90 3. INSERTED DETAIL NW 7/90	BY R.Y. CHECKED BY LISTON ESTIMATE R.Y. CHECK LISTON REVIEW TALLEY	APPROVED: <i>William L. Talley</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT PAVING PLAN	INDEX NO. 13 SHEET 12 OF 56 SHEETS CONTRACT NO. PW 6691 ASSIGNMENT NO. 90-14-08 DATE APRIL, 1990
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BENCH MARKS	ELEV
R.R. SPK ON U. POLE E. SIDE R.R. ROW AT STA. 1+50N	149.83
SPK IN POLE E. SIDE R.R. R.O.W. AT STA. 5+20N	149.51
P.K. IN POLE W. SIDE R.R. R.O.W. AT STA. 9+35	151.40
SPK IN POLE E. SIDE R.R. R.O.W. STA. 11+65N	150.44
SPK IN POLE E. SIDE R.R. R.O.W. STA. 17+75N	152.63
SPK IN POLE N. OF N. CURB CANFIELD ± 20' E.R.R. R.O.W.	153.31

NOTES: FOR CONSTRUCTION LEGEND SEE SHEET 9



REVISIONS	DESCRIPTION	DRN	CK'D	AP'VD	DATE
1	ADDITIONAL "BT" TYPE CATCH BASIN	MK	NW	7/30	
2	ADDITIONAL "A" TYPE CATCH BASIN	MK	NW	7/30	
3	DELETED CATCH BASIN	MK	NW	7/30	
4	REVISED PROP. CATCH BASIN TYPE, LENGTH OF SEWER PIPE & OUTLET ELEVATION	MK	NW	7/30	

APPROVED: *William R. Talley*
ENGINEER OF STREETS

CITY OF DETROIT
CITY ENGINEERING DEPARTMENT
BUREAU OF STREETS AND HIGHWAYS

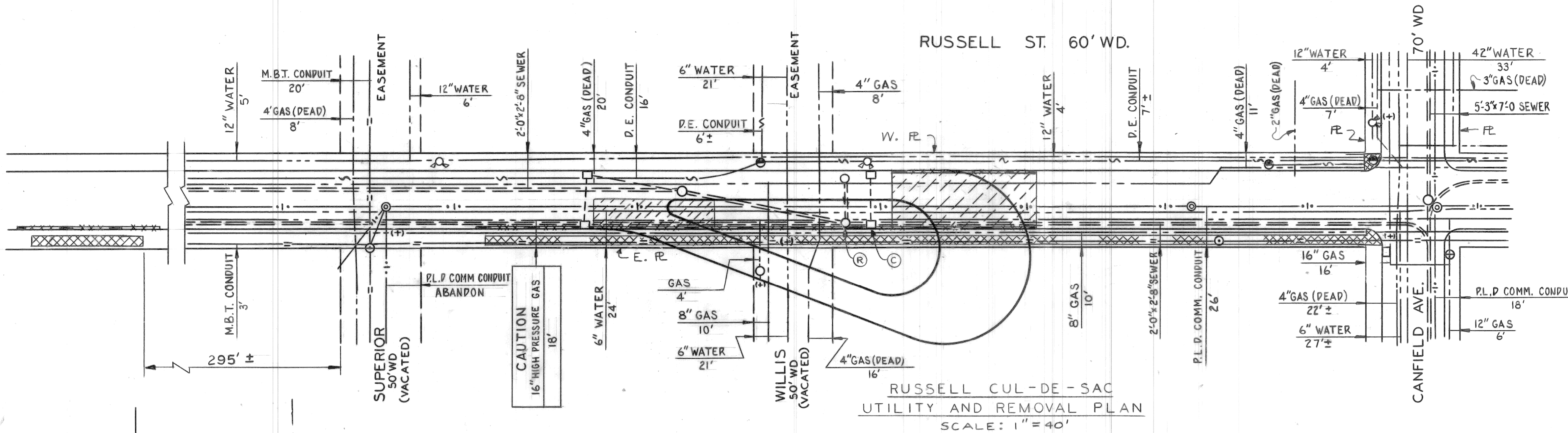
PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

PAVING PLAN

INDEX NO.	13	SHEET 13 OF 56 SHEETS
CONTRACT NO.	PW 6691	
ASSIGNMENT NO.	90-14-08	
DATE	APRIL, 1990	

BENCH MARKS
 P.B.M. # 40-350 LELAND BRG. & I-75 @ N. BD.
 SER. DR. EL. 149.10
 C.B.M. HYD. S.S. CANFIELD ± 20' W. OF R
 RUSSELL EL. 152.77
 C.B.M. HYD. W.S. RUSSELL ± 585' S. OF R
 CANFIELD EL. 150.18
 P.B.M. # 40-253 N.E. COR. ST. AUBIN AND
 ALEXANDRINE EL. 145.19

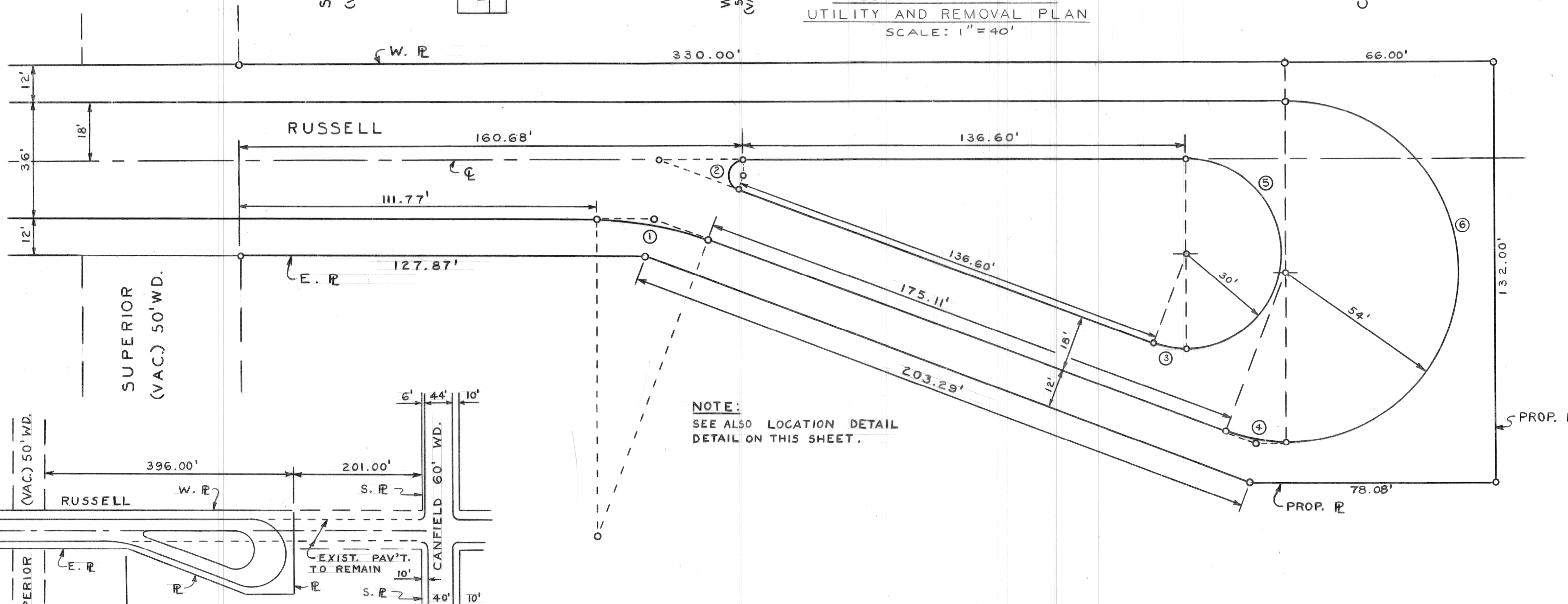
NOTE:
 FOR REMOVAL LEGEND SEE SHEET NO. 7.



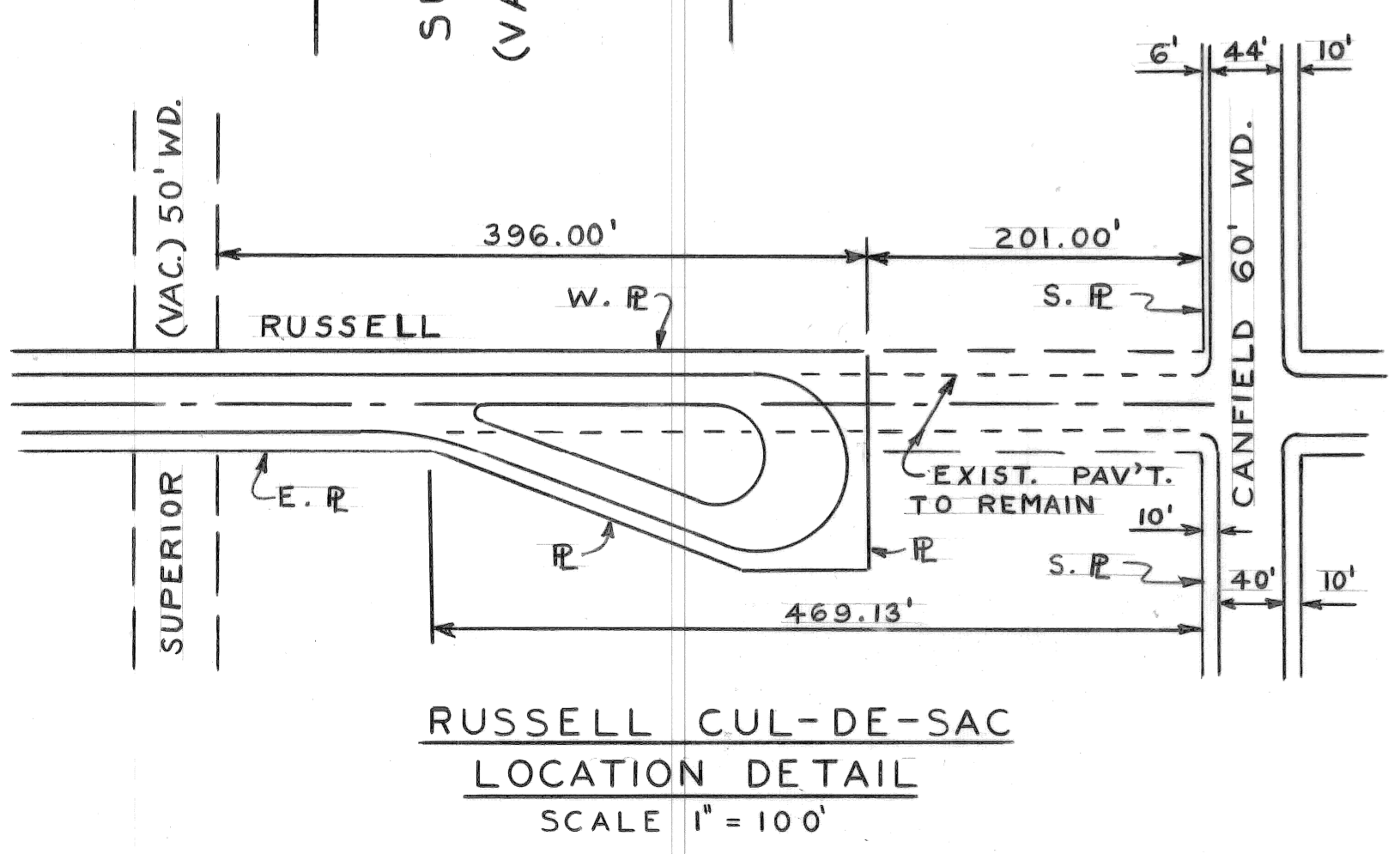
**RUSSELL CUL-DE-SAC
 UTILITY AND REMOVAL PLAN**
 SCALE: 1" = 40'

CURVE DATA

Curve No.	Δ	R	T	L	C
Nº 1	20°-44'-31"	100.00'	18.30'	36.20'	71.22'
Nº 2	153°-15'-29"	5.00'	27.32'	13.90'	9.84'
Nº 3	20°-44'-31"	30.00'	5.49'	10.86'	10.80'
Nº 4	20°-44'-31"	54.00'	9.88'	19.55'	19.44'
Nº 5	180°-00'-00"	30.00'	94.25'		
Nº 6	180°-00'-00"	54.00'	169.65'		

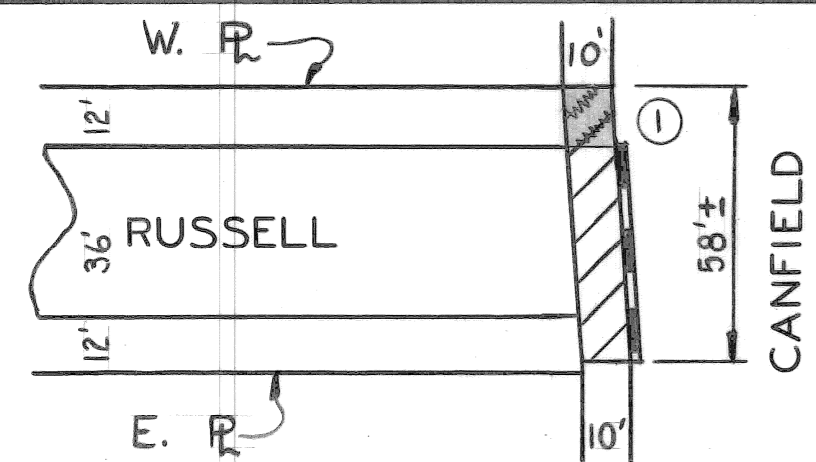


ALIGNMENT OF RUSSELL CUL-DE-SAC
 SCALE: 1" = 20'



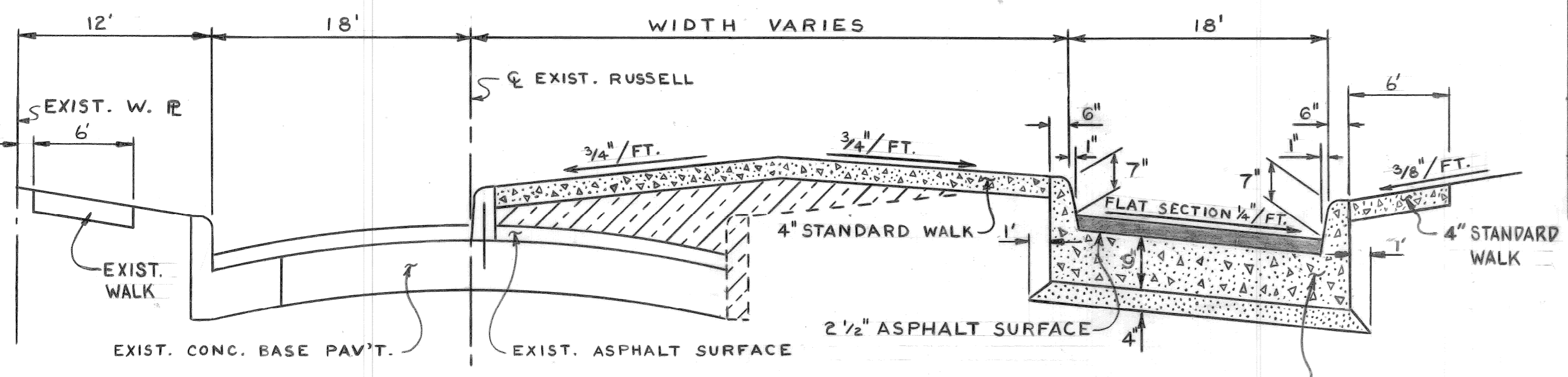
**RUSSELL CUL-DE-SAC
 LOCATION DETAIL**
 SCALE 1" = 100'

REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		DESIGNED BY: M.K. DRAWN BY: A. Brown TRACED BY: CHECKED BY: N.W.	APPROVED: <i>William R. Talley</i> ENGINEER OF STREETS HIGHWAY ENGINEER	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS	PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT RUSSELL CUL-DE-SAC - UTILITY AND REMOVAL PLAN AND ALIGNMENT	SHEET 14 OF 56 SHEETS CONTRACT NO. PW 6691 ASSIGNMENT NO. 90-14-08 DATE APRIL, 1990
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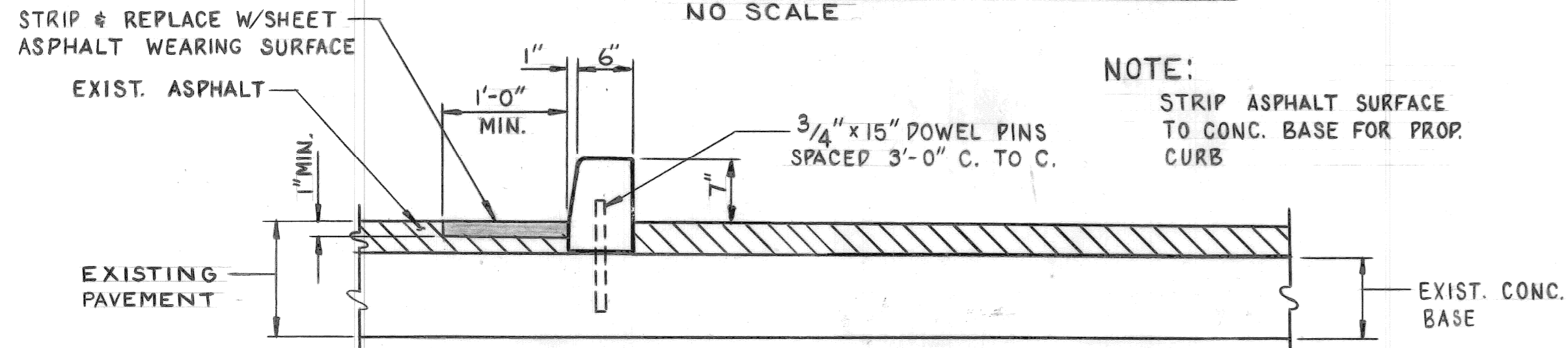


NOTES:
 1. PLACE FILL (GRADE A) UNDER PROP. WALK.
 2. SEE DETAIL OF PROP. CURB ON THIS SHEET

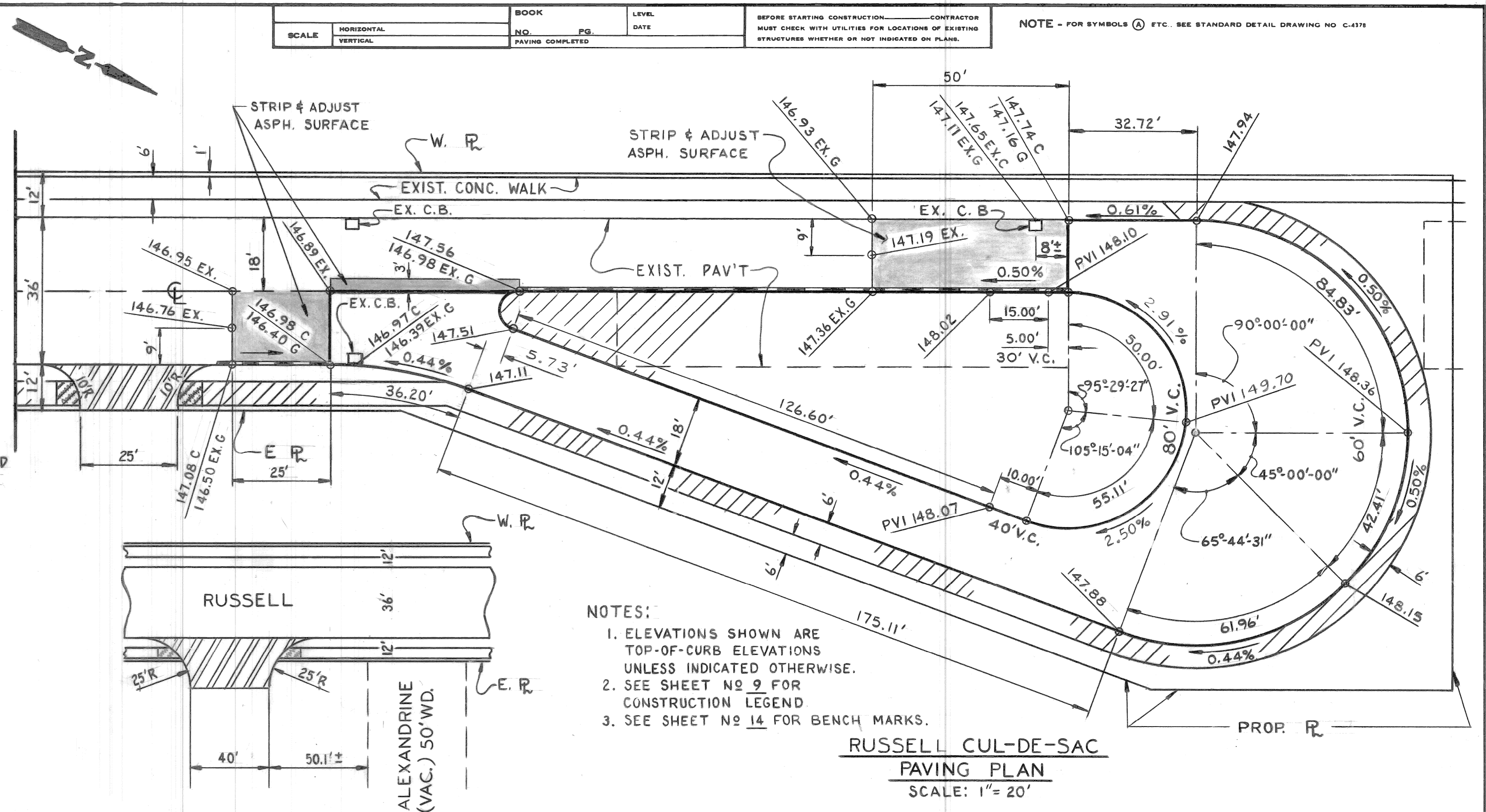
DETAIL OF PROPOSED CURB & WALK ON CANFIELD AT RUSSELL
 SCALE: 1"=40'



TYPICAL SECTION FOR RUSSELL CUL-DE-SAC
 NO SCALE



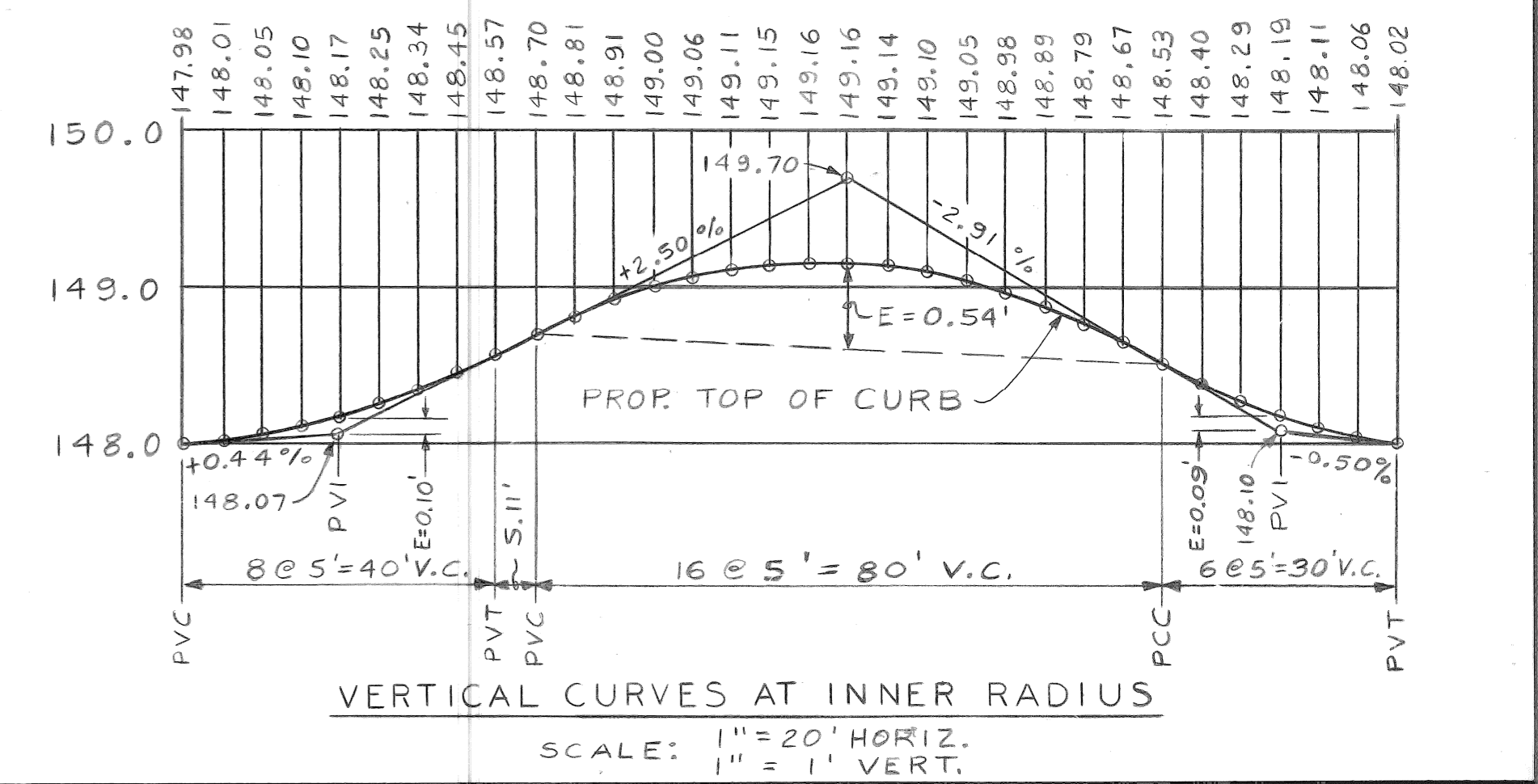
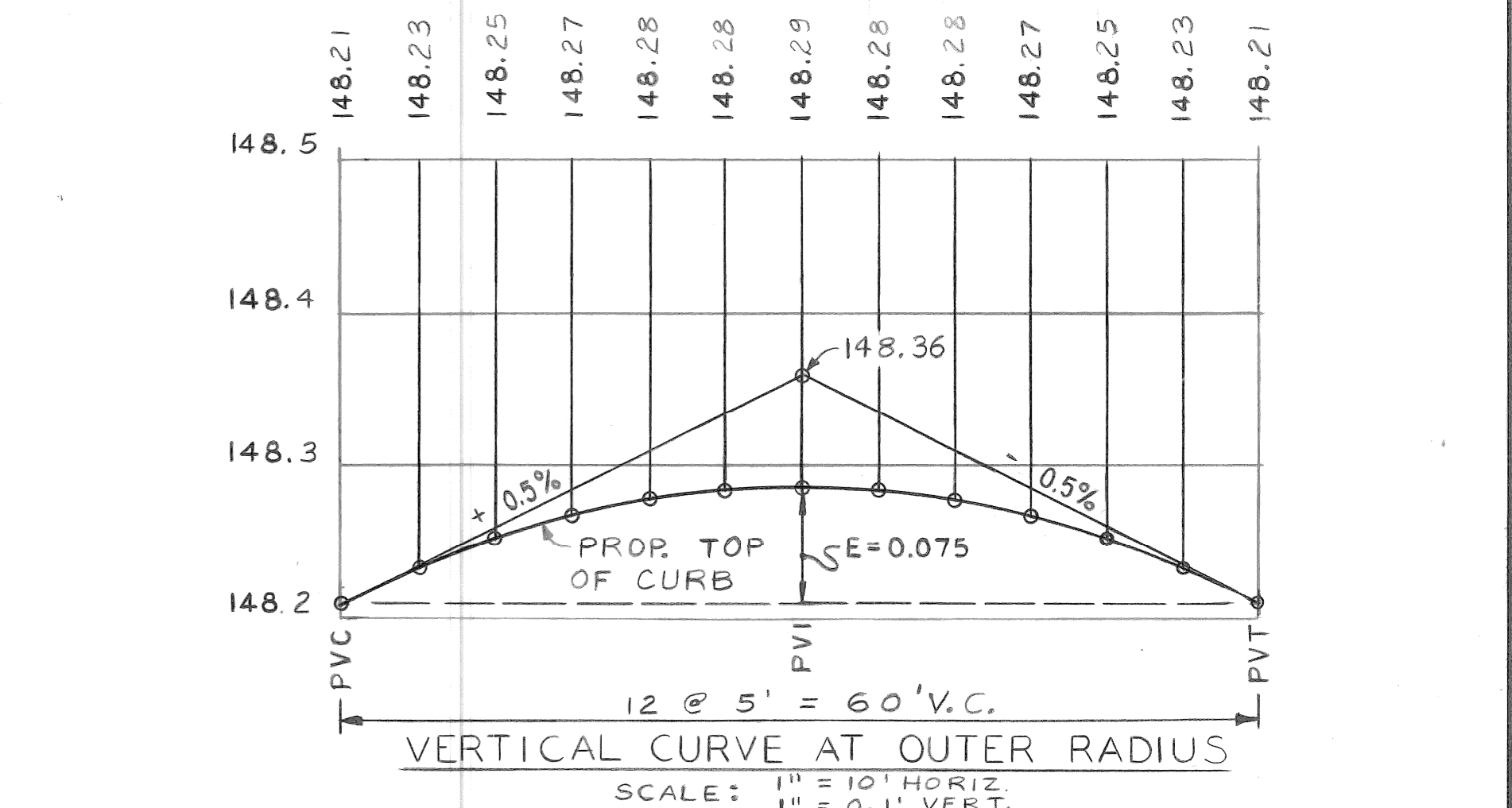
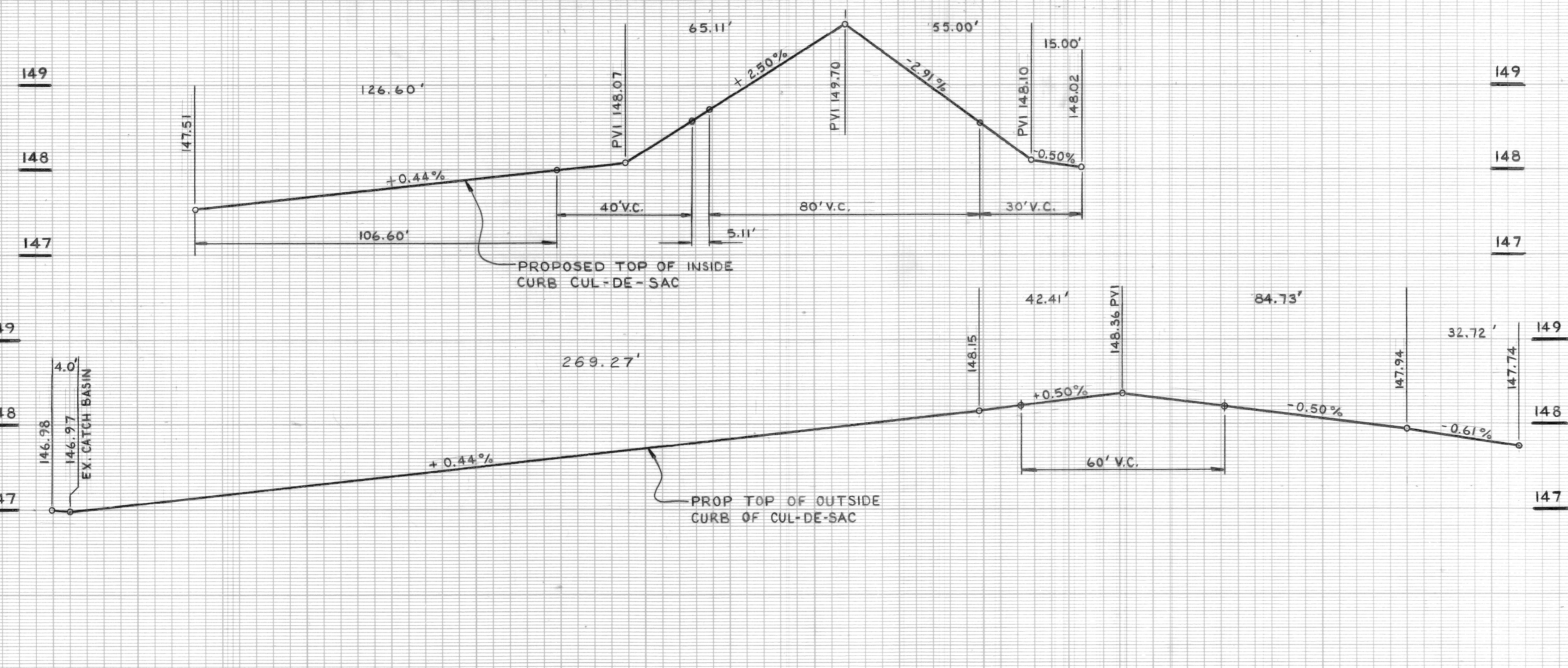
DETAIL OF PROPOSED SEPARATE TYPE CURB
 NO SCALE



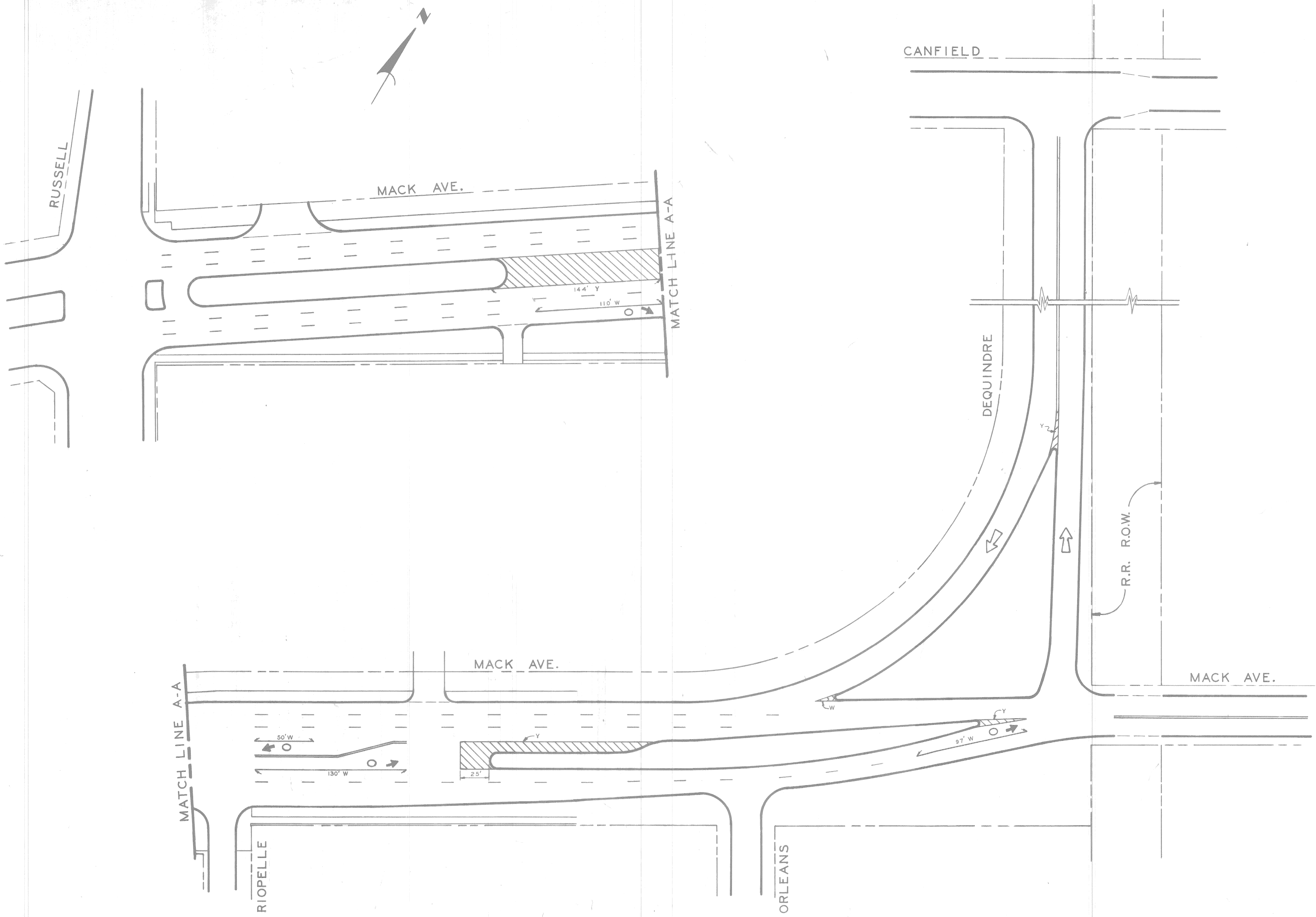
DETAIL OF PROPOSED DRIVEWAY ON RUSSELL S. OF ALEXANDRINE
 SCALE: 1"=40'

NOTES:
 1. ELEVATIONS SHOWN ARE TOP-OF-CURB ELEVATIONS UNLESS INDICATED OTHERWISE.
 2. SEE SHEET NO. 9 FOR CONSTRUCTION LEGEND.
 3. SEE SHEET NO. 14 FOR BENCH MARKS.

RUSSELL CUL-DE-SAC PAVING PLAN
 SCALE: 1"=20'



DESCRIPTION		DR	CK	AP	VD	DATE	FINAL	CHECK	REVIEW
REVISIONS									
BY	CHECKED BY	APPROVED:							
PLAN	AP	William R. Tally		CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS					
GRADE	AP			PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK R.R., ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION. FOREST PARK REHABILITATION PROJECT					
ESTIMATE				RUSSELL CUL-DE-SAC PAVING PLAN AND TYPICAL SECTION					
FINAL	N.W.			SHEET 15 OF 56 SHEETS CONTRACT NO. PW 6691 ASSIGNMENT NO. 90-14-08 DATE APRIL, 1990					



COORD	DESCRIPTION	DATE	BY	DATE

DESIGNED BY	R ROSIK
DRAWN BY	
TRACED BY	
CHECKED BY	

APPROVED	
ASSIGNMENT No.	90-14-08




CITY OF DETROIT
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION ENGINEERING

MACK AVE.-DEQUINDRE LANING
 FROM
 RUSSELL TO CANFIELD

SHEET 16 OF 56 SHEETS
CONTRACT NO. PW 6691
DRWG No. L-34 D
DATE MAY 3, 1990

COORD	DESCRIPTION	DRN	CK'D	AP'D	DATE
REVISIONS LOCATED BY COORDINATES ON SHEET					

DESIGNED BY	
DRAWN BY	R-Rosik 2/28/89
TRACED BY	
CHECKED BY	LISTON

APPROVED:

 WILLIAM L. TULLY
 ENGINEER OF STREETS

CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT
 BUREAUS OF STREETS AND HIGHWAYS

PAVING OF MACK FROM ALLEY WEST OF RIOPELLE TO GRAND TRUNK RR, ALSO DEQUINDRE FROM MACK TO CANFIELD, AND MISCELLANEOUS CONSTRUCTION FOREST PARK REHABILITATION PROJECT

QUANTITY SHEET

SHEET 17 OF 56 SHEETS
CONTRACT NO. PW 6691
ASSIGNMENT NO. 90-14-08
DATE APRIL, 1990

ITEM NO.	DESCRIPTION OF ITEM	UNIT	SHEET #7	SHEET #8	SHEET #9	SHEET #10	SHEET #11	SHEET #12	SHEET #13	SHEETS #14-15	SHEETS #16	SHEETS #18	TOTAL
1	EXCAVATION	CYDS			3,071	345	927	3,705	2,929	734			11,711
2	BERM GRADING	SYDS					373	800	658				1,831
3	STREET PAVEMENT REMOVAL UNREINF.	SYDS	3,793	665						272			4,730
4	ALLEY PAVEMENT REMOVAL	SYDS	44	613									657
5	UNREINFORCED CONCRETE REMOVAL	CYDS											10
6	CONCRETE SLAB REMOVAL	SYDS		2,343									2,343
7	SIDEWALK REMOVAL	SFT	16,624	5,345						4,740			26,709
8	DRIVEWAY REMOVAL	SFT		40									40
9	CONCRETE ISLAND REMOVAL	SYDS	17										17
10	INTEGRAL TYPE CURB REMOVAL	LFT	385										385
11	SEPARATE TYPE CURB REMOVAL	LFT	70	55						220			345
12	STREETCAR TRACK BASE REMOVAL	SYDS	1,874										1,874
13	STREETCAR RAIL REMOVAL	LFT	4,088										4,088
14	TREE REMOVAL 4"-12"	EA											
15	TREE REMOVAL 13"-18"	EA											
16	TREE REMOVAL 24"	EA											
17	TREE REMOVAL 30"	EA											
18	STUMP REMOVAL	EA	1										1
19	FILL (GRADE 'A')	CYDS			252	539	83	38	61	173			1,146
20	FILL (22A)	CYDS			556	325	415	1,528	1,359	123			4,306
21	SEPARATE TYPE CURB UNREINF.	LFT								197			197
22	CONSTRUCT 8" BULKHEAD INCLUDING BACKFILL	EA										8	8
23	CATCH BASIN ABANDONMENT	EA											
24	STOP BOX ADJUSTMENT	EA	1										1
25	MANHOLE ADJUSTMENT	EA	13	4									17
26	MANHOLE RECONSTRUCT CONE	EA											
27	MANHOLE STANDARD	EA						2					2
28	MANHOLE DROP	EA											
29	CATCH BASIN "A"	EA			1	2	2						5
30	CATCH BASIN "B"	EA			1	2							3
31	CATCH BASIN "B" WITH TRAP	EA			1	4	1	6	4				16
32	12" SEWER PIPE C-76-III	LFT			95	262	375	595	80				1,407
33	15" SEWER PIPE C-76-IX	LFT						270	196				466
34	18" SEWER PIPE C-76-III	LFT							286				286
35	18" SEWER PIPE C-76-IX	LFT							261				261
36	24" SEWER PIPE C-76-IX IN TUNNEL	LFT							27				27
37	SOLID CATCH BASIN COVER	EA								1			1
38	SHEET ASPHALT WEARING SURFACE	TONS								2			2
39	DRIVEWAY - 8" STANDARD	SFT			2,005	2,000	1,310	1,310		1,100			7,725
40	CONC. PAVT. 9" REINFORCED *	SYDS			4,875	3,002	2,918	4,500	3,700				18,995
41	CONC. PAVT. 9" UNIFORM **	SYDS			276	151			159				586
42	SIDEWALK 4" STANDARD ***	SFT			8,861	6,414	3,788	7,290	6,600	9,676			42,629
43	SIDEWALK 6" STANDARD ***	SFT			800	482	270	270	423	210			2,455
44	INTEGRAL CURB AND GUTTER UNREINF.	LFT			160								160
45	STRIP AND ADJUST ASPHALT SURFACE	SYDS			29				63	98			190
46	TEST CORES	EA			4	4	4	4	3	1			20
47	SODDING	SYDS			2,397	1,055	2,328	1,650	1,357				8,787
48	TOP SOIL	CYDS			299	132	291	206	170				1,098
49	LITTER REMOVAL	CYDS											10
50	CLEAN EXISTING STRUCTURES	EA											2
51	MAINTAIN TRAFFIC	LUMP SUM											LUMP SUM
52	CONC. BASE PAVT. 9" REINFORCED *									1,100			1,100
53	WEARING SURFACE MIXTURE												
54	BINDER COURSE MIXTURE												
55	WEARING SURFACE MIXTURE												
56	3) 31A (CD) - SLAG 1" AVERAGE THICKNESS	TONS								57			57
57	3) 31A (CD) - NATURAL 1" AVERAGE THICKNESS	TONS								61			61
58	BINDER COURSE MIXTURE												
59	2) 25A (MOD) - SLAG 1 1/2" AVERAGE THICKNESS	TONS								84			84
60	2) 25A (MOD) - NATURAL 1 1/2" AVERAGE THICKNESS	TONS								91			91
61	POLYESTER PAVEMENT MARKING - 4" WHITE	LFT									1,167		1,167
62	POLYESTER PAVEMENT MARKING - 4" YELLOW	LFT									3,270		3,270
63	POLYESTER PAVEMENT MARKING - 6" WHITE	LFT									53		53
64	POLYESTER PAVEMENT MARKING - 6" YELLOW	LFT									2,725		2,725
65	COLD PLASTIC PAVEMENT MARKING LEGEND - LEFT TURN ARROW	EA								4			4
66	COLD PLASTIC PAVEMENT MARKING SYMBOL - LEFT TURN ARROW	EA								3			3
67	COLD PLASTIC PAVEMENT MARKING SYMBOL - RIGHT TURN ARROW	EA								1			1

*** INCLUDES REINFORCED INTEGRAL CURB (SEE STD. DRWG. C-4943)
 *** INCLUDES TYPE III UNREINFORCED INTEGRAL CURB (SEE STD. DRWG. C-4380)
 *** CONSTRUCTION ONLY

NOTES:
 1. FOR WATER SYSTEM ALTERATION QUANTITIES SEE SHEET NO. 19.
 2. FOR P.L.D. QUANTITIES SEE SHEET NO. 56.