

PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH AASHTO :
 "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 1990".

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1990 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS

FHWA REGION	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MICH				
STREET	CITY	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
 IN CO-OPERATION WITH
MICHIGAN DEPARTMENT OF TRANSPORTATION
 ECONOMIC DEVELOPMENT - CATEGORY A
 CONTROL SECTION EDA 82522 JOB NO. 40937A

TRAFFIC VOLUME	1996	2017
ADT - ST. JEAN	12,900	16,700
DESIGN SPEED	35 MPH	
POSTED SPEED	30 MPH	

CALL MISS DIG
 48 HOURS PRIOR TO
 CONSTRUCTION. 647-7344

- INDEX OF SHEETS**
- 1 TITLE SHEET
 - 2 TYPICAL SECTIONS
 - 3 ALIGNMENT
 - 4 CONSTRUCTION SEQUENCE
 - 5 REMOVALS
 - 6-8 PLANS AND PROFILES
 - 9 DETAILED GRADES
 - 10 UTILITIES
 - 11-12 PAVEMENT MARKINGS
 - 13-17 SPECIAL STANDARDS AND DETAILS
 - 18 QUANTITY SHEET
 - 19-50 P.L.D. PLANS
 - 51 P.L.D. QUANTITY SHEETS

- STANDARD PLANS**
- II-28G
 - II-29E
 - II-39K
 - II-40H
 - II-41J
 - II-42F
 - II-43D
 - II-44H
 - II-45C
 - IV-83H
 - V-100C
 - VI-125H



RECONSTRUCTION OF
 ST. JEAN FROM
 MACK TO N. OF WARREN

CONTRACT FOR _____

LOCAL AUTHORITY APPROVAL
 CITY OF DETROIT
 CITY ENGINEERING DIVISION
 DEPARTMENT OF PUBLIC WORKS

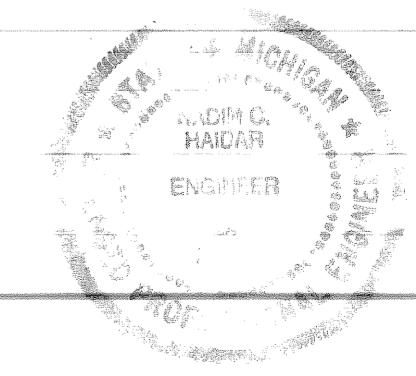
APPROVED BY: William F. Kelly 3/5/97
HEAD ENGINEER DATE

APPROVED BY: M. Jesini 3/5/97
CITY ENGINEER DATE

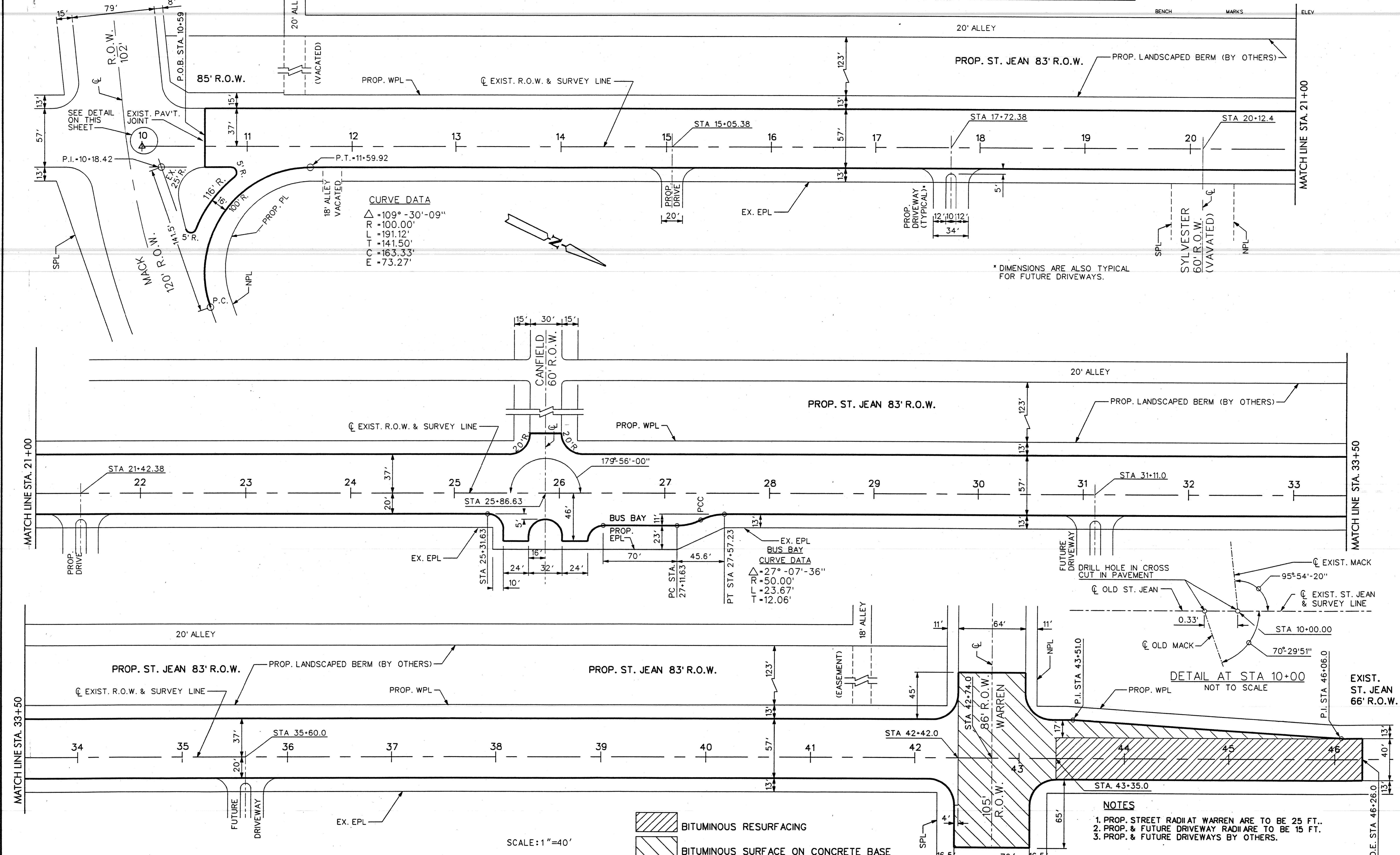
PREPARED UNDER SUPERVISION OF
Dadiu Haidar 35265
REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

CITY OF DETROIT
ORGANIZATION

DETROIT, MICHIGAN
ADDRESS

 (SEAL)

JOB NO. 40937A
 CONTROL SECTION EDA - 82522



CURVE DATA
 $\Delta = 109^\circ - 30' - 09''$
 $R = 100.00'$
 $L = 191.12'$
 $T = 141.50'$
 $C = 163.33'$
 $E = 73.27'$

CURVE DATA
 $\Delta = 27^\circ - 07' - 36''$
 $R = 50.00'$
 $L = 23.67'$
 $T = 12.06'$

* DIMENSIONS ARE ALSO TYPICAL FOR FUTURE DRIVEWAYS.

- NOTES**
1. PROP. STREET RADII AT WARREN ARE TO BE 25 FT..
 2. PROP. & FUTURE DRIVEWAY RADII ARE TO BE 15 FT.
 3. PROP. & FUTURE DRIVEWAYS BY OTHERS.

BITUMINOUS RESURFACING
 BITUMINOUS SURFACE ON CONCRETE BASE

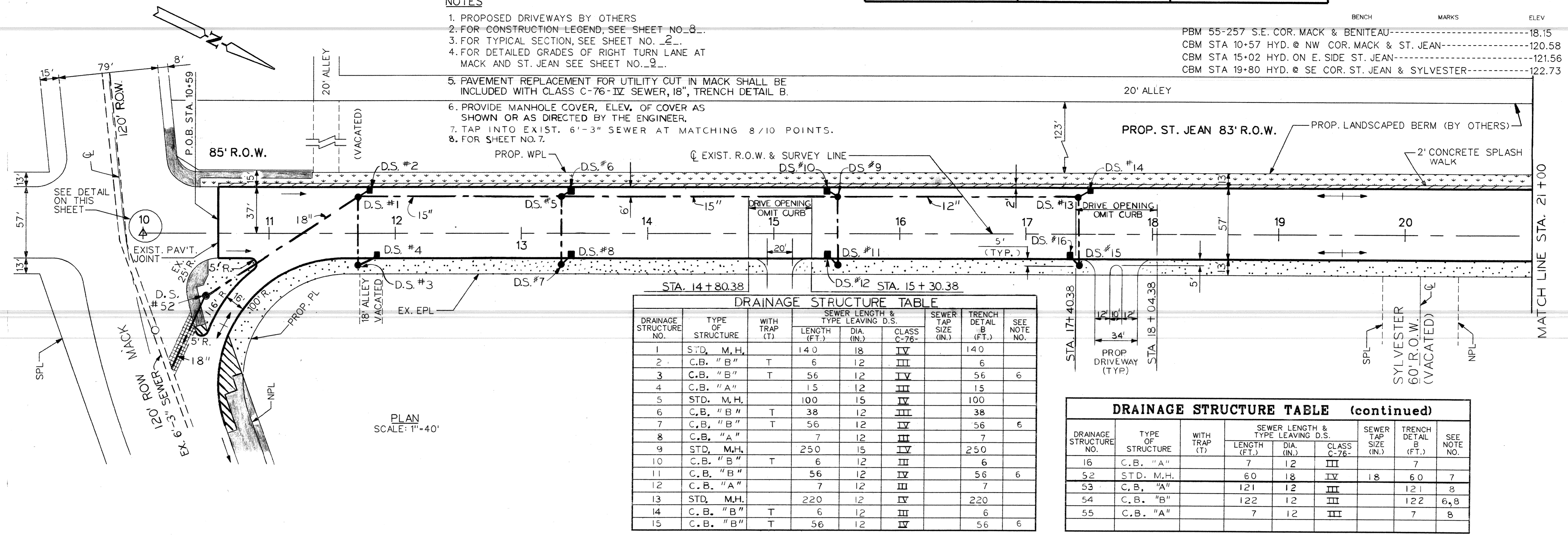
SCALE: 1"=40'

PLAN GRADE ESTIMATE DESCRIPTION REVISIONS		BY K.M.	CHECKED BY N.W.	APPROVED <i>Rodrigue Haidar</i> ENGINEER OF RECORD	CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS OBSOLETE - FINAL PLAN BEFORE REVISIONS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN ALIGNMENT	SHEET 3 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
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NOTES

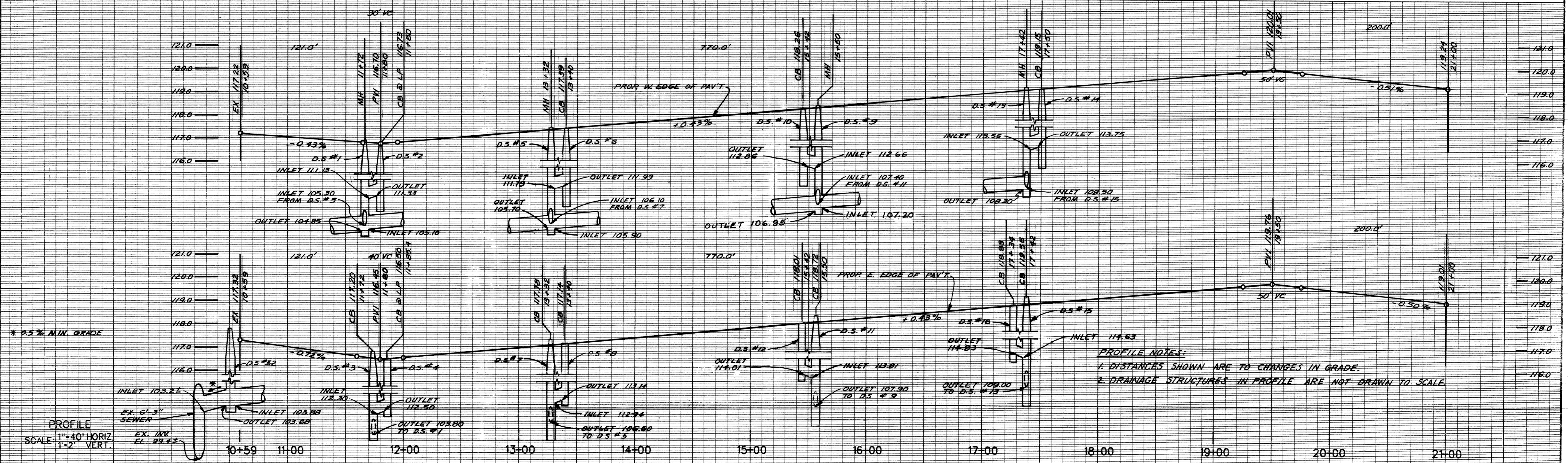
1. PROPOSED DRIVEWAYS BY OTHERS
2. FOR CONSTRUCTION LEGEND, SEE SHEET NO. 8.
3. FOR TYPICAL SECTION, SEE SHEET NO. 2.
4. FOR DETAILED GRADES OF RIGHT TURN LANE AT MACK AND ST. JEAN SEE SHEET NO. 9.
5. PAVEMENT REPLACEMENT FOR UTILITY CUT IN MACK SHALL BE INCLUDED WITH CLASS C-76-IV SEWER, 18", TRENCH DETAIL B.
6. PROVIDE MANHOLE COVER, ELEV. OF COVER AS SHOWN OR AS DIRECTED BY THE ENGINEER.
7. TAP INTO EXIST. 6'-3" SEWER AT MATCHING 8/10 POINTS.
8. FOR SHEET NO. 7.

PBM 55-257 S.E. COR. MACK & BENITEAU	18.15
CBM STA 10+57 HYD. @ NW COR. MACK & ST. JEAN	120.58
CBM STA 15+02 HYD. ON E. SIDE ST. JEAN	121.56
CBM STA 19+80 HYD. @ SE COR. ST. JEAN & SYLVESTER	122.73



DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL (B (FT.))	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76-			
1	STD. M.H.		140	18	IV	140		
2	C.B. "B"	T	6	12	III	6		
3	C.B. "B"	T	56	12	IV	56	6	
4	C.B. "A"		15	12	III	15		
5	STD. M.H.		100	15	IV	100		
6	C.B. "B"	T	38	12	III	38		
7	C.B. "B"	T	56	12	IV	56	6	
8	C.B. "A"		7	12	III	7		
9	STD. M.H.		250	15	IV	250		
10	C.B. "B"	T	6	12	III	6		
11	C.B. "B"		56	12	IV	56	6	
12	C.B. "A"		7	12	III	7		
13	STD. M.H.		220	12	IV	220		
14	C.B. "B"	T	6	12	III	6		
15	C.B. "B"	T	56	12	IV	56	6	

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL (B (FT.))	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76-			
16	C.B. "A"		7	12	III	7		
52	STD. M.H.		60	18	IV	18	6.0	
53	C.B. "A"		121	12	III	121	8	
54	C.B. "B"		122	12	III	122	6, 8	
55	C.B. "A"		7	12	III	7	8	



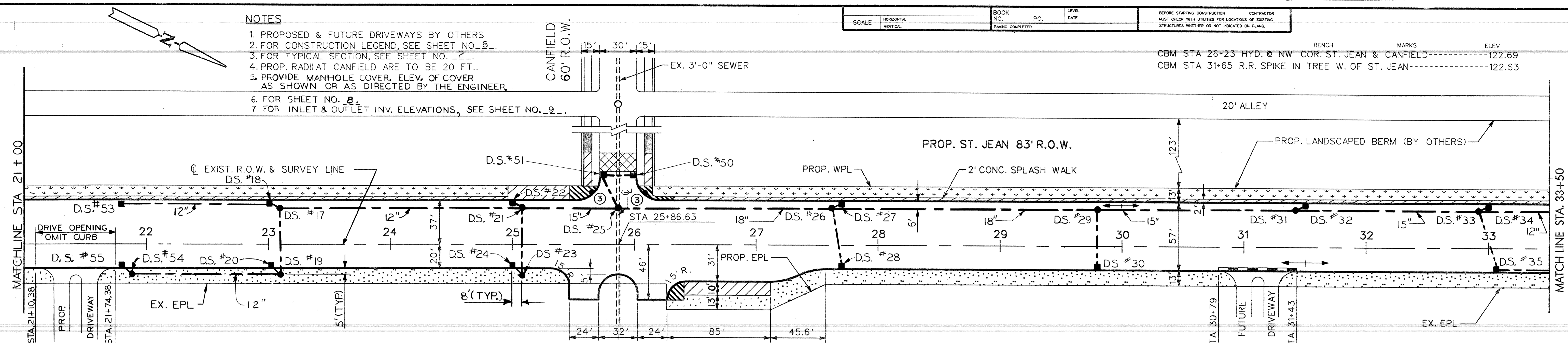
REVISIONS DESCRIPTION DR. MCK. DATE DATE	PLAN GRADE ESTIMATE	BY K.M.	CHECKED BY N.W.	APPROVED <i>Dadiu Haider</i> ENGINEER	CITY OF DETROIT CITY ENGINEERING DIVISION, D.P.W. BUREAU OF STREETS AND HIGHWAYS OBSOLETE - FINAL PLAN BEFORE REVISIONS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN PAVING PLAN AND PROFILES MACK TO STA. 21+00	SHEET 6 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
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NOTES

1. PROPOSED & FUTURE DRIVEWAYS BY OTHERS
2. FOR CONSTRUCTION LEGEND, SEE SHEET NO. 8.
3. FOR TYPICAL SECTION, SEE SHEET NO. 2.
4. PROP. RADII AT CANFIELD ARE TO BE 20 FT..
5. PROVIDE MANHOLE COVER, ELEV. OF COVER AS SHOWN OR AS DIRECTED BY THE ENGINEER.
6. FOR SHEET NO. 8.
7. FOR INLET & OUTLET INV. ELEVATIONS, SEE SHEET NO. 9.

SCALE	HORIZONTAL	VERTICAL	BOOK NO.	PG.	LEVEL DATE	BEFORE STARTING CONSTRUCTION CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

BENCH MARKS
 CBM STA 26+23 HYD. @ NW COR. ST. JEAN & CANFIELD -----122.69
 CBM STA 31+65 R.R. SPIKE IN TREE W. OF ST. JEAN -----122.93



DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER DIA. (IN.)	CLASS C-76	TRENCH DETAIL B (FT.)	SEE NOTE NO.
17	STD. M.H.		199	12	IV	199	
18	C.B. "B"	T	6	12	III	6	
19	C.B. "B"	T	56	12	IV	56	5
20	C.B. "A"		7	12	III	7	
21	STD. M.H.		79	15	IV	79	
22	C.B. "B"	T	6	12	III	6	
23	C.B. "B"	T	56	12	IV	56	5
24	C.B. "A"		7	12	III	7	
25	DROP M.H.						
26	STD. M.H.		175	18	IV	175	
27	C.B. "B"	T	6	12	III	6	

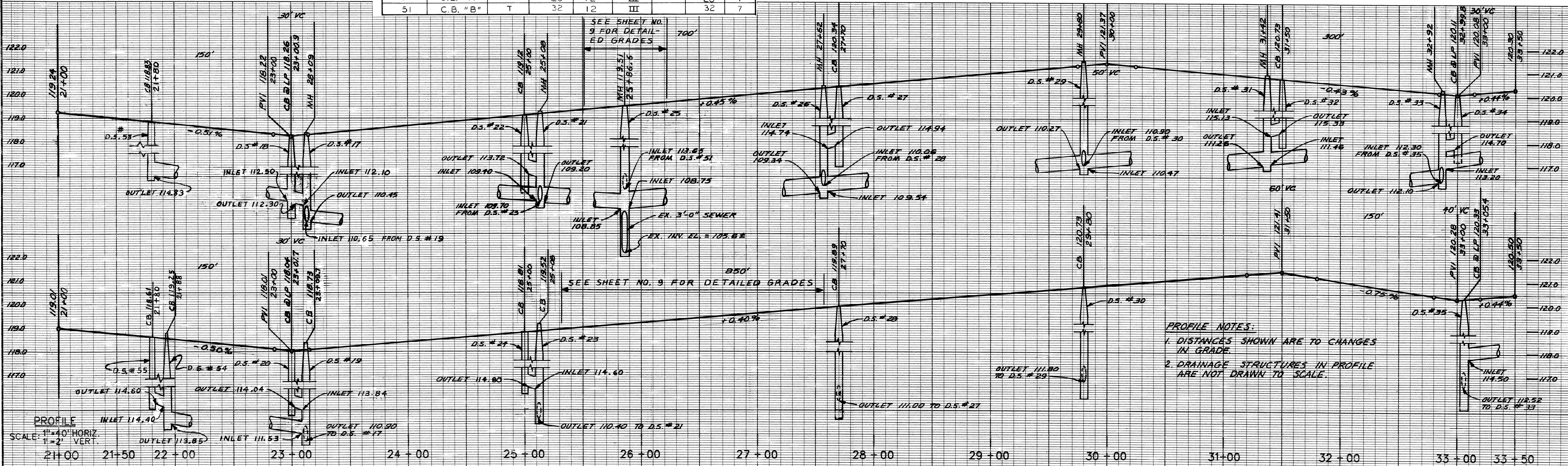
DRAINAGE STRUCTURE TABLE (continued)

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER DIA. (IN.)	CLASS C-76	TRENCH DETAIL B (FT.)	SEE NOTE NO.
28	C.B. "B"	T	51	12	IV	51	
29	STD. M.H.		218	18	IV	218	
30	C.B. "B"	T	50	12	IV	50	
31	STD. M.H.		162	15	IV	162	
32	C.B. "B"	T	6	12	III	6	
33	STD. M.H.		150	15	IV	150	
34	C.B. "B"	T	6	12	III	6	
35	C.B. "B"	T	52	12	IV	52	
36	STD. M.H.		200	12	IV	200	6
37	C.B. "B"	T	6	12	III	6	6
38	C.B. "A"		195	12	IV	195	6
50	C.B. "A"		28	12	III	28	7
51	C.B. "B"	T	32	12	III	32	7

DRAINAGE STRUCTURE TABLE (FOR SHEET NO. 8)

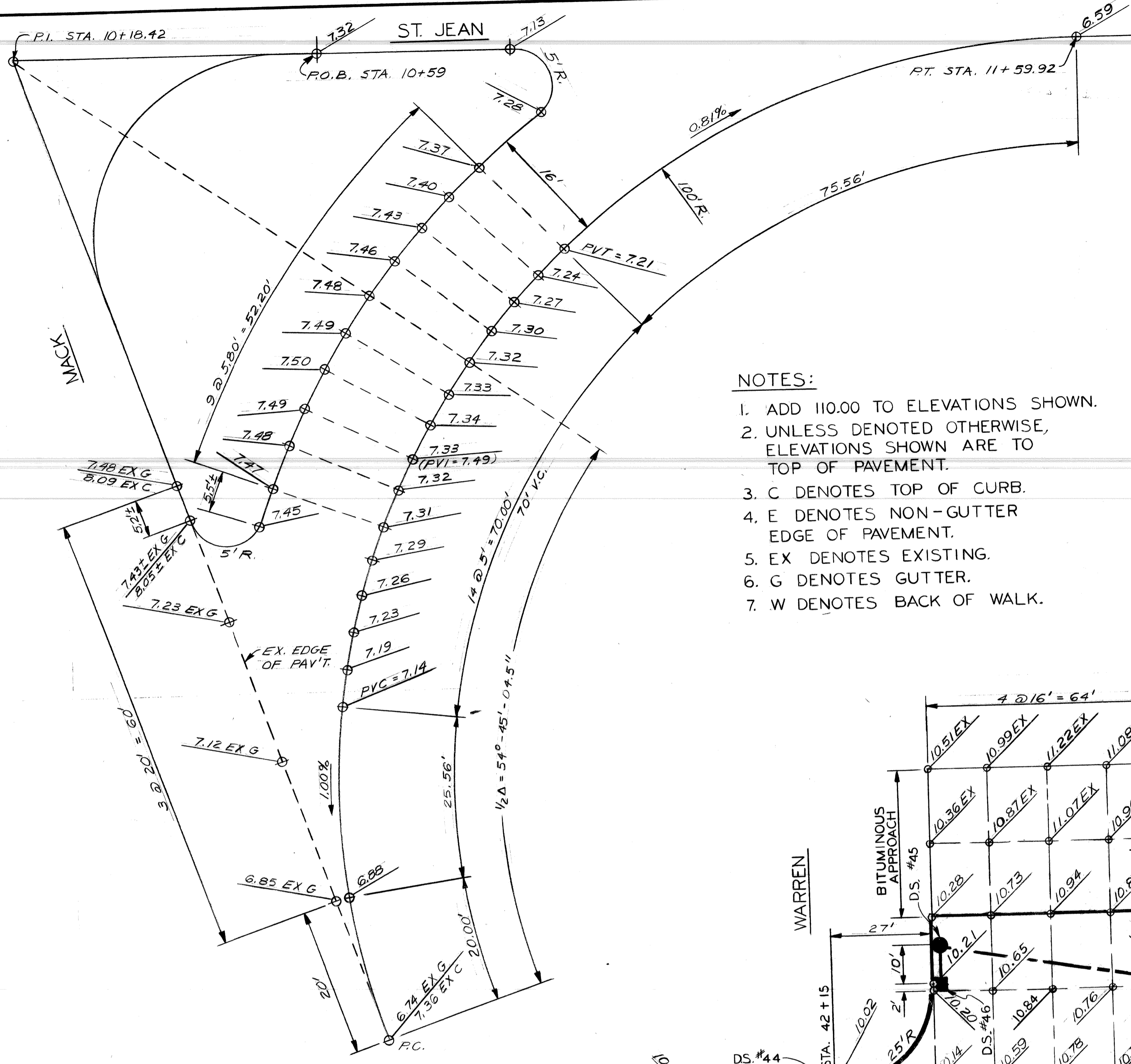
DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER DIA. (IN.)	CLASS C-76	SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
39	C.B. "B"	T	139	12	IV	12	139	
40	C.B. "B"		63	12	IV		63	5
41	C.B. "A"		7	12	III		7	
42	C.B. "B"	T	60	12	IV	12	60	5
43	C.B. "A"		42	12	III		42	
44	C.B. "B"	T	56	12	III	12	56	
45	DROP M.H.							
46	C.B. "B"	T	6	12	III		6	
47	C.B. "B"	T	63	12	IV		63	
48	C.B. "B"	T	42	12	III	12	42	
49	C.B. "A"		70	12	III		70	

PLAN SCALE: 1"=40'



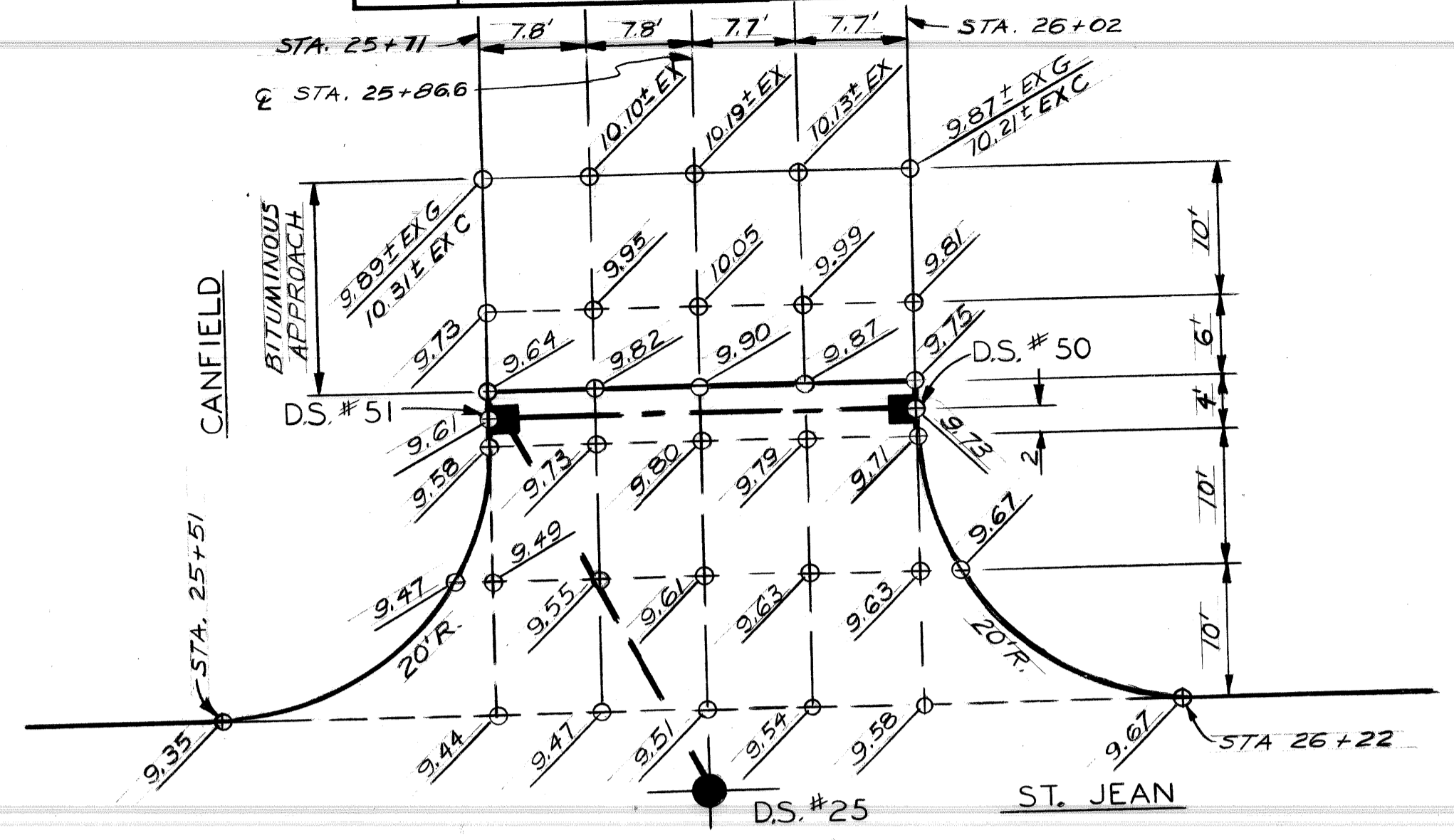
PROFILE NOTES:
 1. DISTANCES SHOWN ARE TO CHANGES IN GRADE.
 2. DRAINAGE STRUCTURES IN PROFILE ARE NOT DRAWN TO SCALE.

DESCRIPTION	REVISIONS	BY	CHECKED BY	APPROVED BY	CITY OF DETROIT CITY ENGINEERING DIVISION, D.P.W. BUREAU OF STREETS AND HIGHWAYS OBSOLETE - FINAL PLAN BEFORE REVISIONS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN PAVING PLAN AND PROFILES STA. 21+00 TO STA. 33 + 50	BOOK NO. TOPO NO. SHEET 7 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN 1997
		K.M.	N.W.	<i>Dadius Haidar</i>			



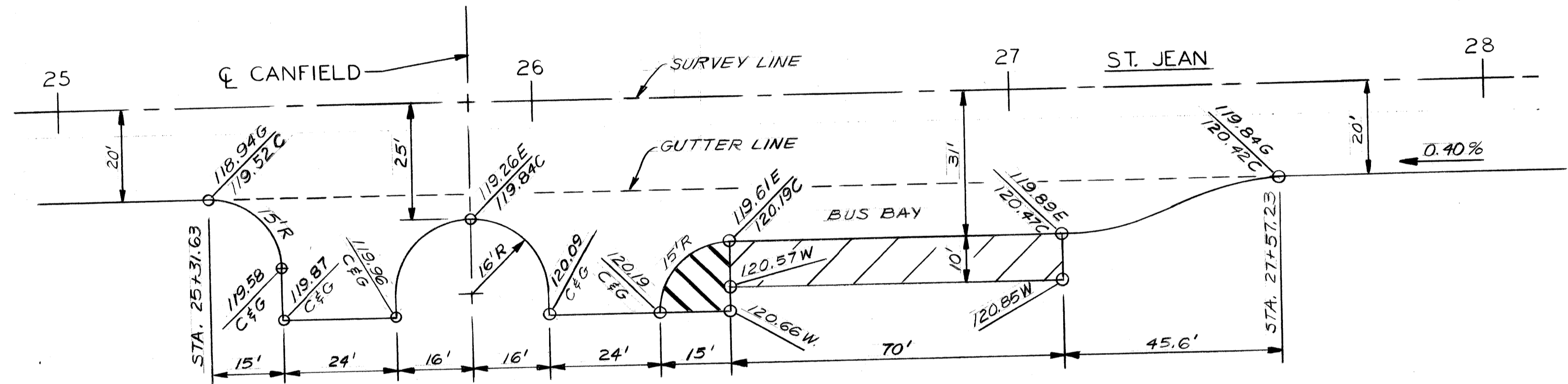
- NOTES:
1. ADD 110.00 TO ELEVATIONS SHOWN.
 2. UNLESS DENOTED OTHERWISE, ELEVATIONS SHOWN ARE TO TOP OF PAVEMENT.
 3. C DENOTES TOP OF CURB.
 4. E DENOTES NON-GUTTER EDGE OF PAVEMENT.
 5. EX DENOTES EXISTING.
 6. G DENOTES GUTTER.
 7. W DENOTES BACK OF WALK.

DETAILED GRADES
RIGHT TURN LANE FROM MACK TO ST JEAN
SCALE: 1" = 10'

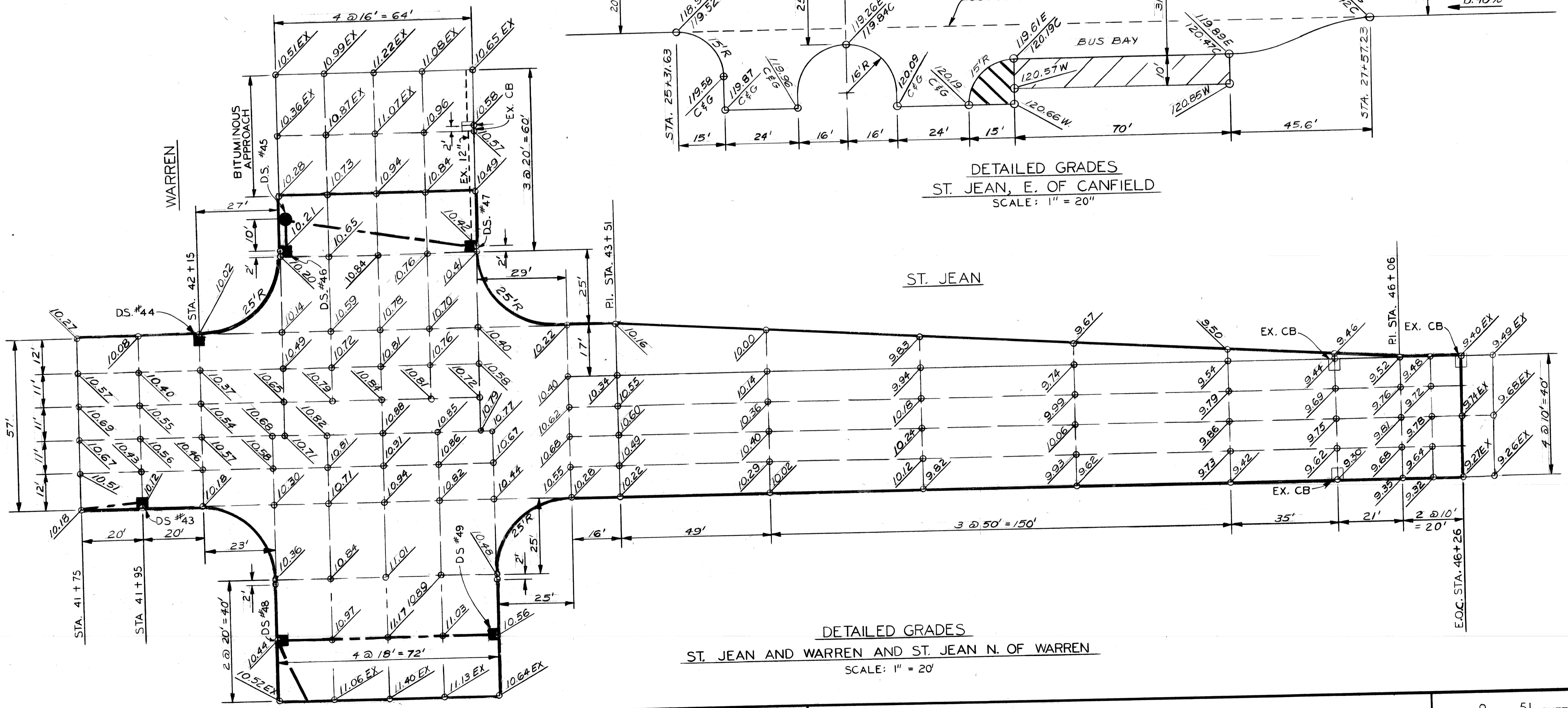


DETAILED GRADES
ST. JEAN AND CANFIELD
SCALE: 1" = 10'

- SEWER INVERT ELEVATIONS
- OUTLET 115.73 AT D.S. #50
 - INLET 115.13 AT D.S. #51
 - OUTLET 114.21 AT D.S. #51
 - INLET 114.60 AT D.S. #45 FROM D.S. #46
 - INLET 110.50 AT D.S. #45 FROM D.S. #47
 - OUTLET 114.80 AT D.S. #46
 - OUTLET 111.10 AT D.S. #47
 - INLET 115.00 AT D.S. #48
 - OUTLET 114.80 AT D.S. #48
 - OUTLET 116.32 AT D.S. #49
 - INLET 114.00 AT EX. SMH FROM D.S. #48



DETAILED GRADES
ST. JEAN, E. OF CANFIELD
SCALE: 1" = 20'



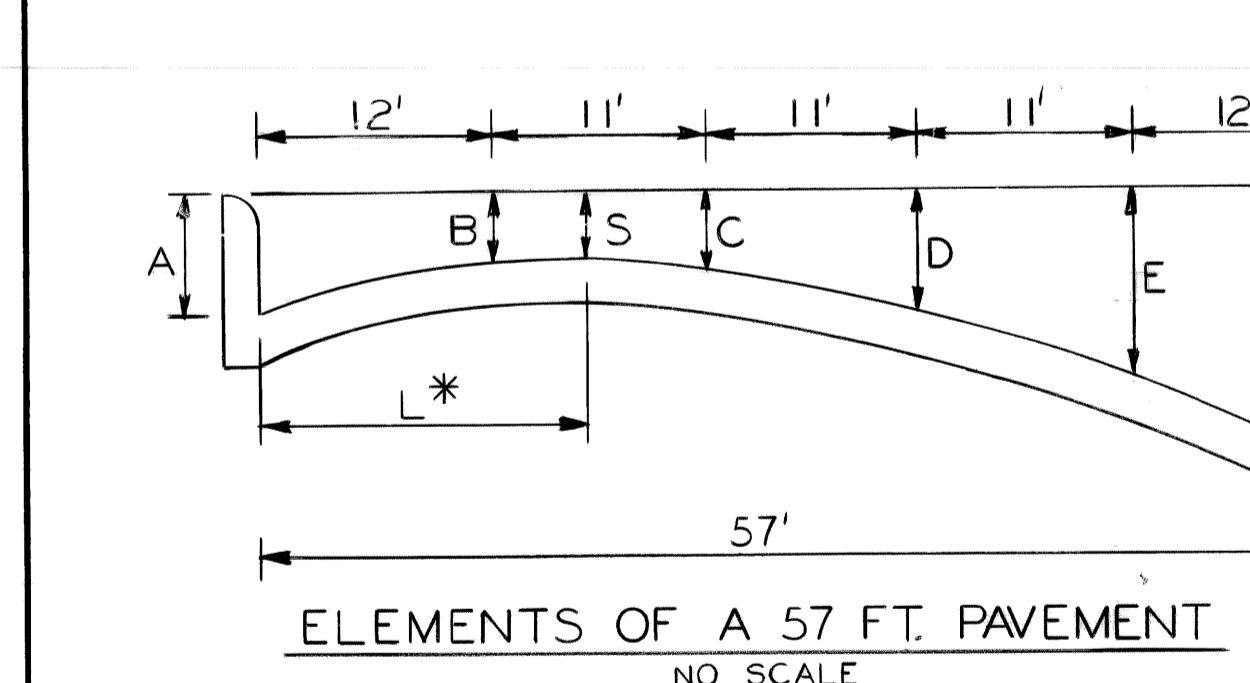
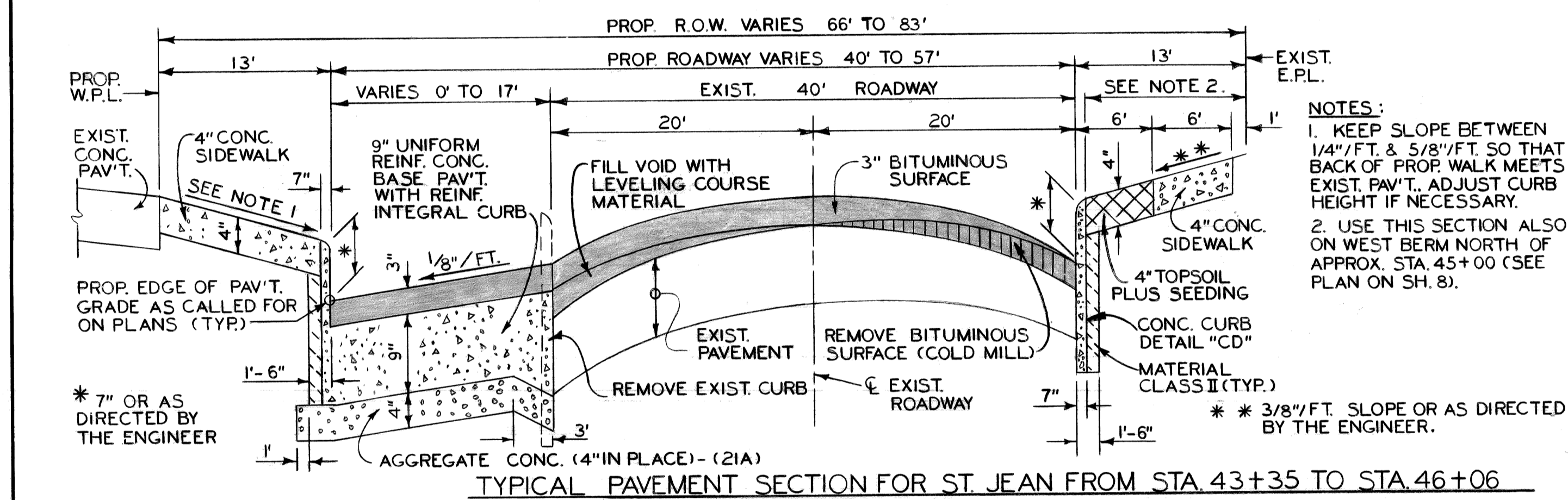
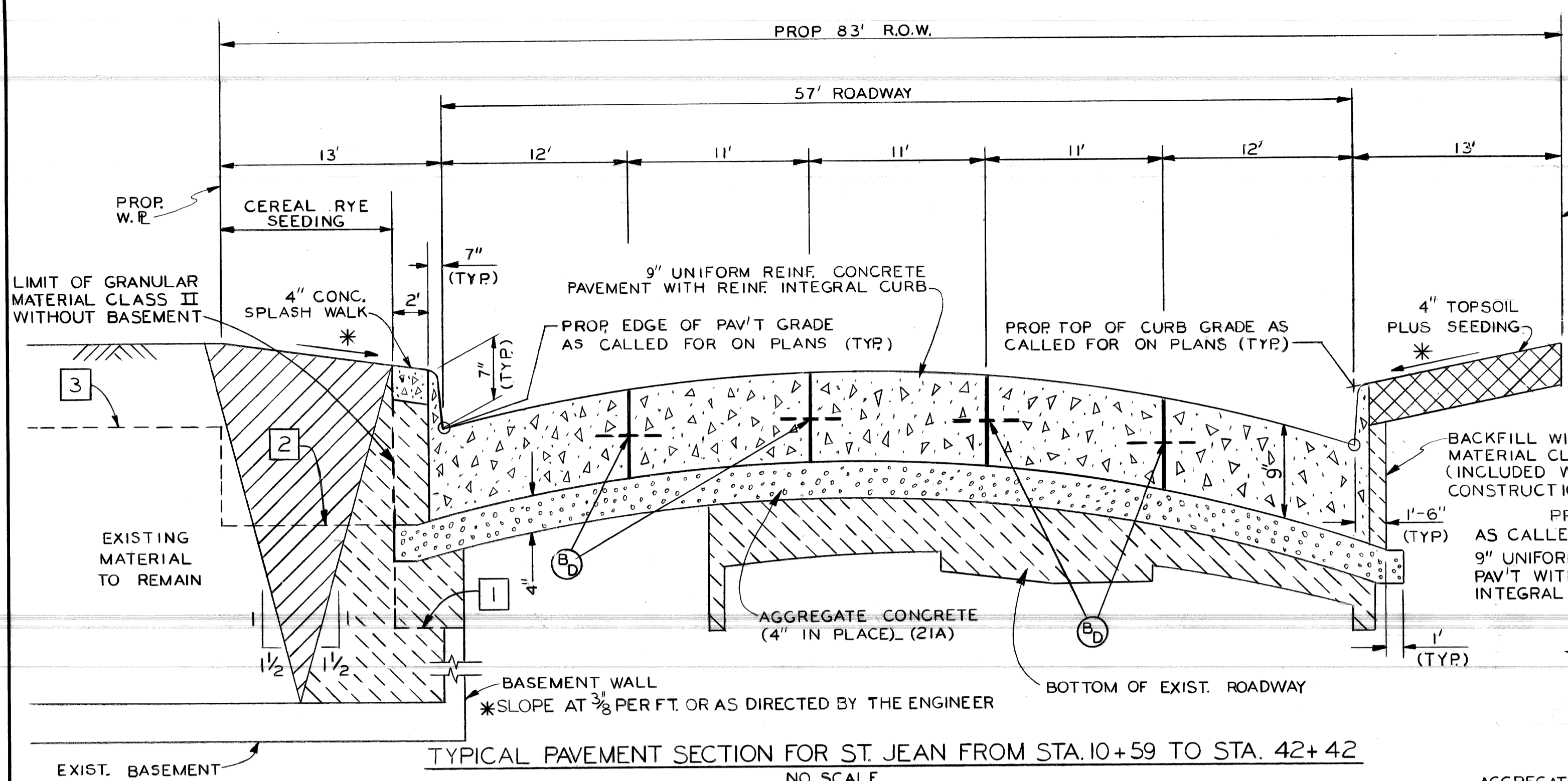
DETAILED GRADES
ST. JEAN AND WARREN AND ST. JEAN N. OF WARREN
SCALE: 1" = 20'

DESCRIPTION	DRN	CK'D	AP	VOI	DATE
REVISIONS					
BY	CHECKED BY	APPROVED:			
PLAN CM		<i>Dadwin Heider</i>	ENGINEER OF STREETS		
GRADE NW					
ESTIMATE	CHECK	REVIEW			
FINAL					

CITY OF DETROIT
CITY ENGINEERING DIVISION, D.R.W.
BUREAU OF STREETS AND HIGHWAYS
OBSOLETE -
FINAL PLAN BEFORE REVISIONS

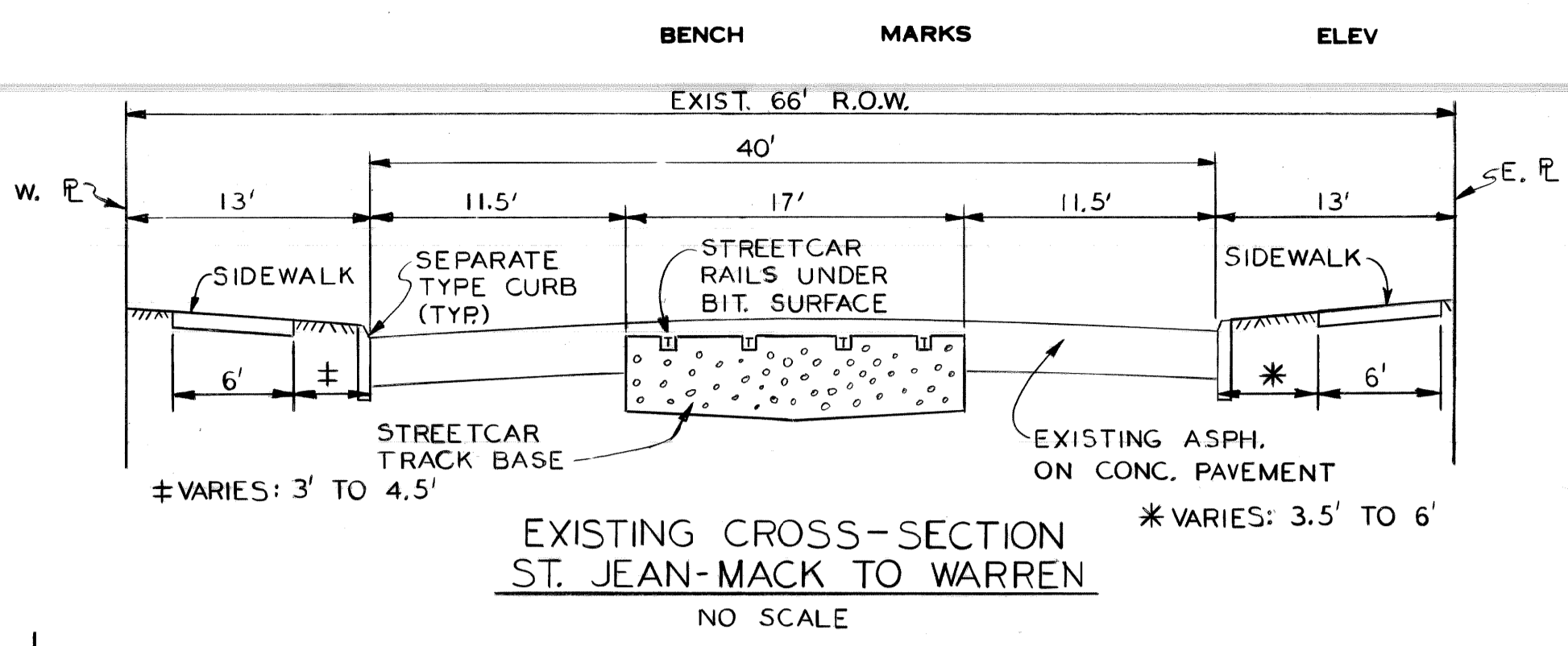
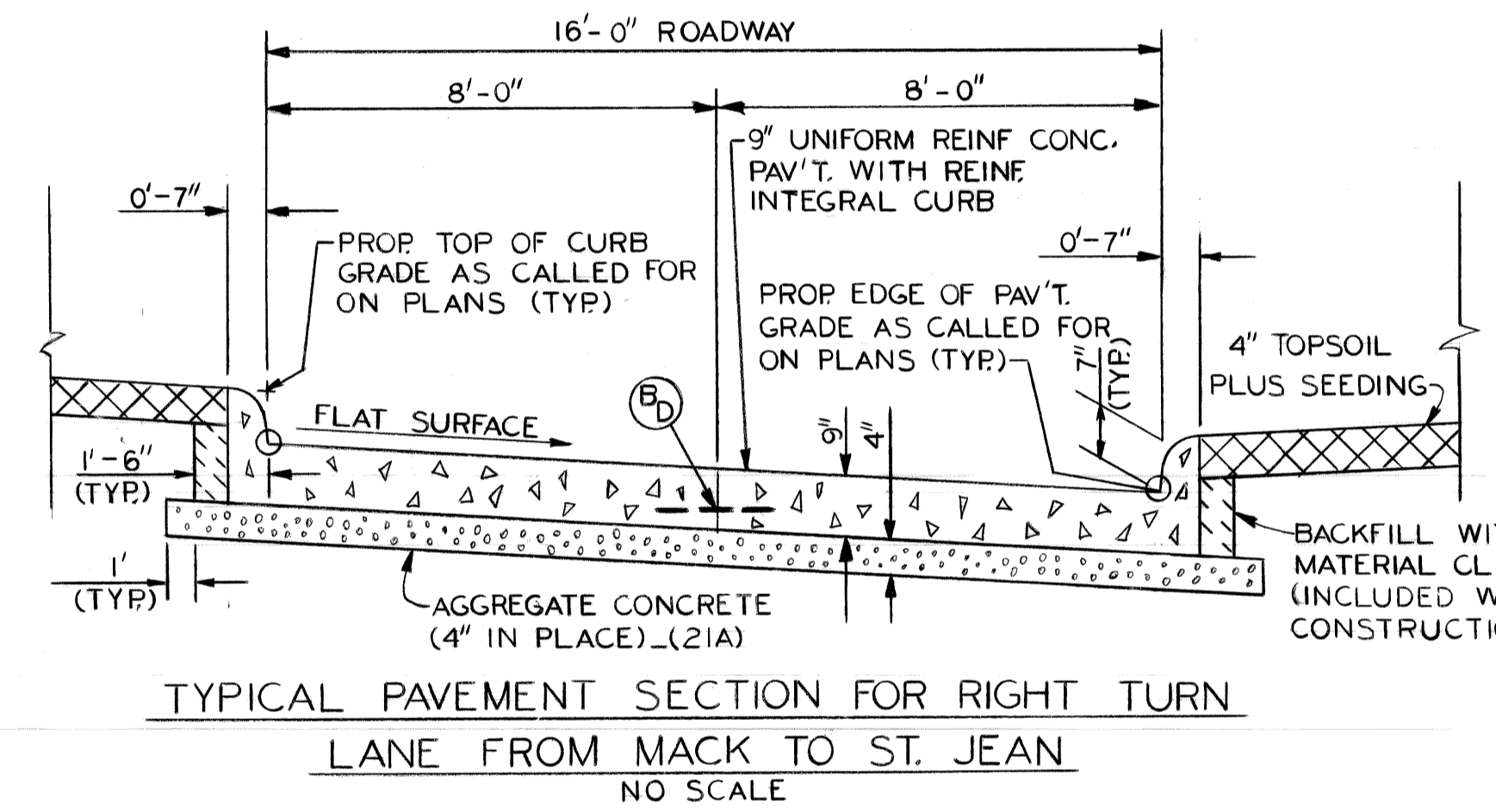
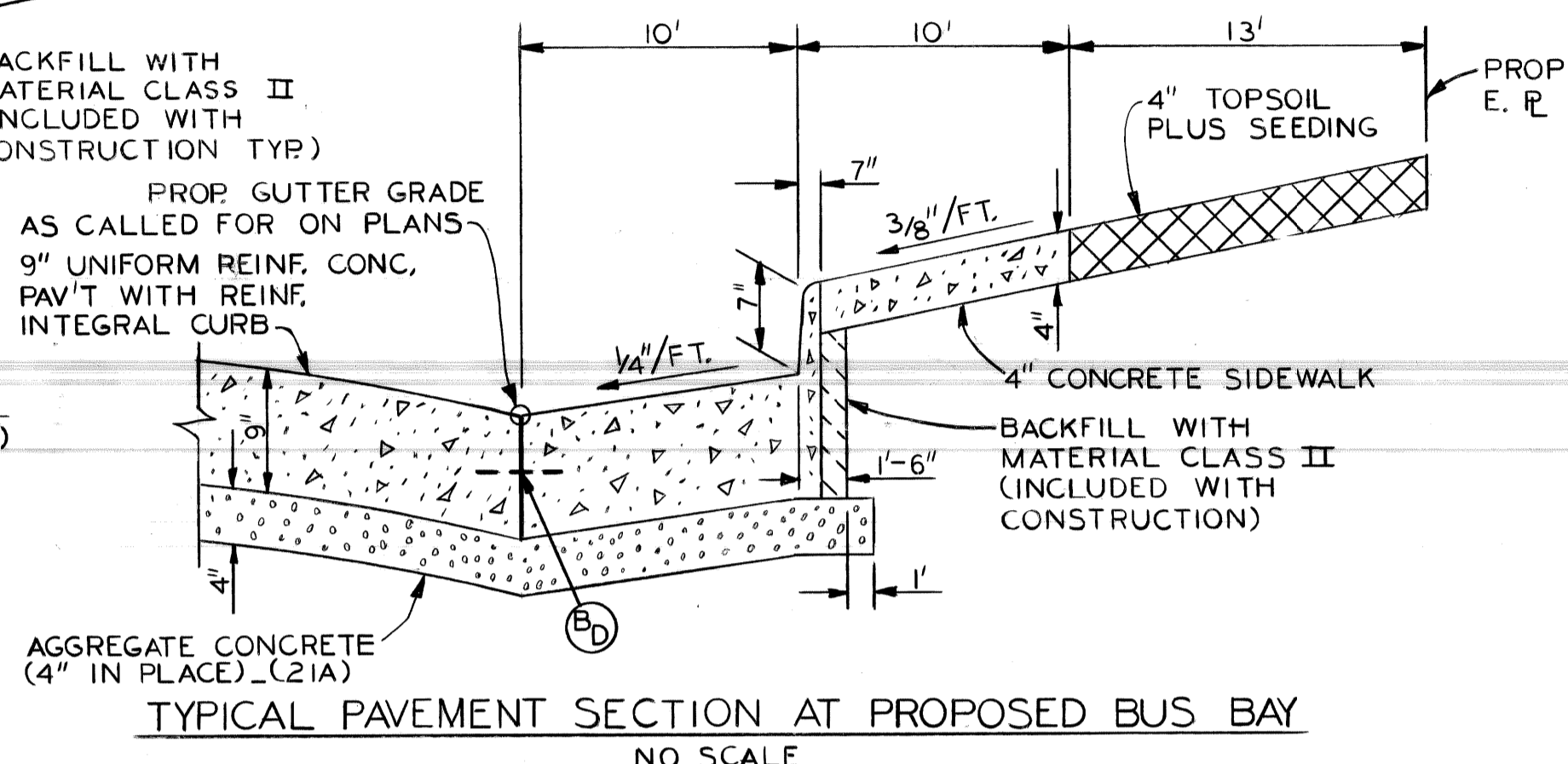
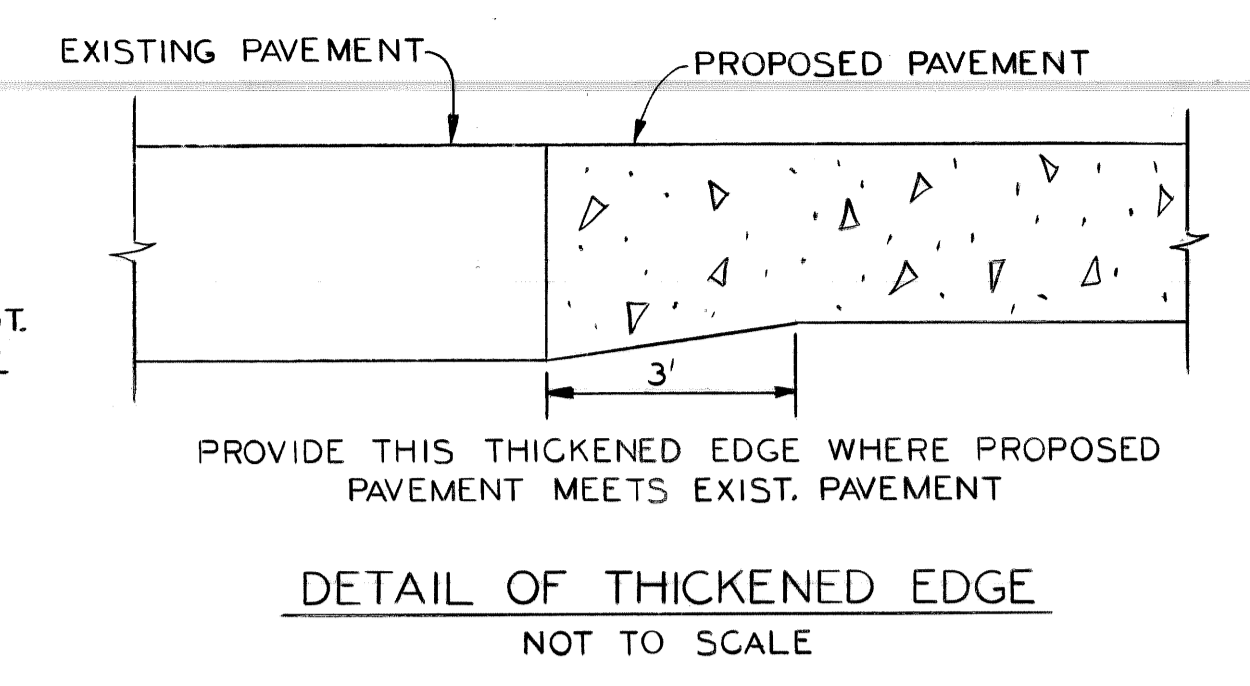
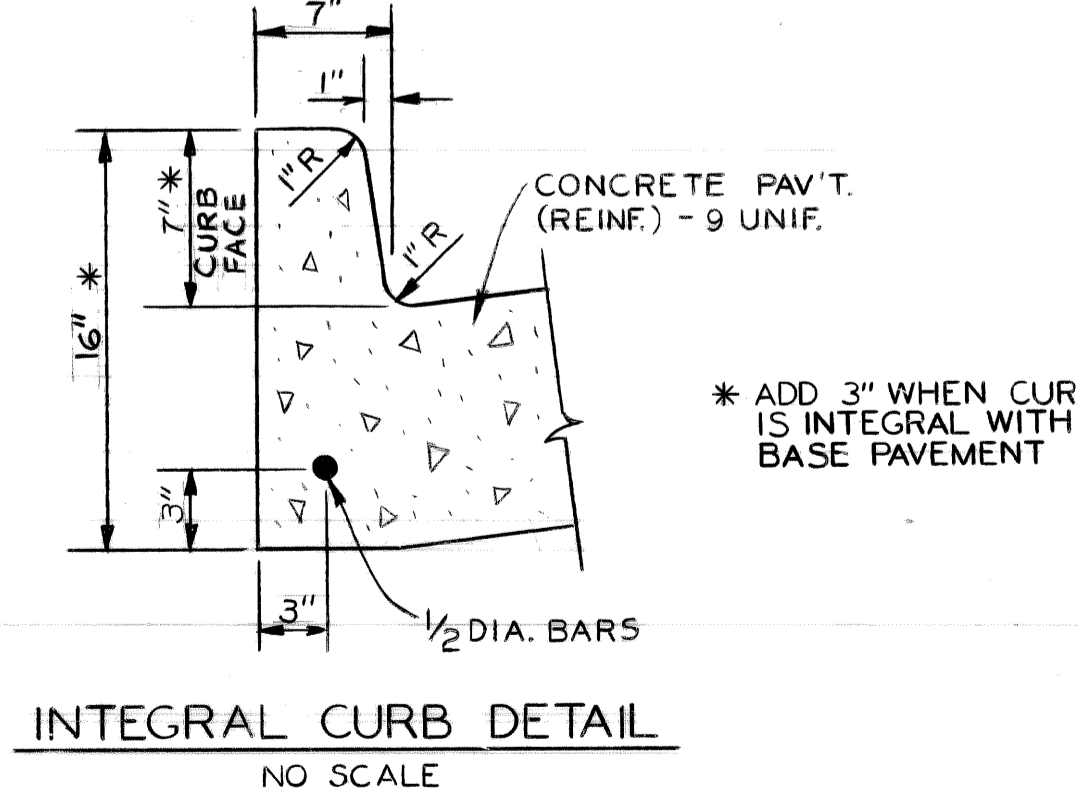
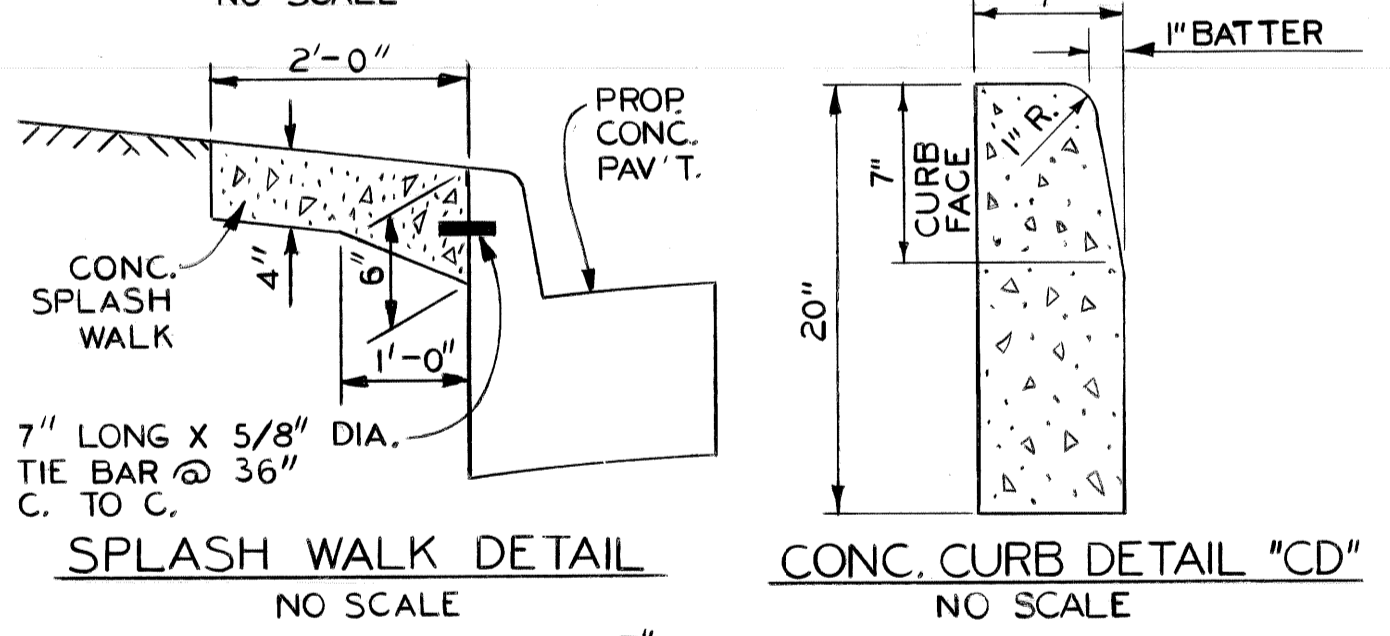
RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN
DETAILED GRADES

SHEET 9 OF 51 SHEETS
CONTRACT NO.
ASSIGNMENT NO. 96-22-20
DATE JAN., 1997



PAV'T WIDTH	CURB HEIGHT	T	A	B	C	D	E	F	L*	S
57'	0	0.583	0.267	0.126	0.126	0.267	0.583	28.5	0.108	
	0.1	0.583	0.288	0.167	0.186	0.346	0.683	27.0	0.158	
	0.2	0.583	0.309	0.208	0.246	0.425	0.783	25.5	0.208	
	0.3	0.583	0.330	0.249	0.306	0.504	0.883	24.0	0.258	
	0.4	0.583	0.351	0.290	0.366	0.583	0.983	22.5	0.308	
	0.5	0.583	0.372	0.331	0.426	0.662	1.083	21.0	0.358	
	0.6	0.583	0.393	0.372	0.486	0.741	1.183	19.5	0.408	
	0.7	0.583	0.414	0.413	0.546	0.821	1.283	18.0	0.458	
	0.8	0.583	0.435	0.454	0.606	0.899	1.383	16.5	0.508	
	0.9	0.583	0.456	0.495	0.666	0.978	1.483	15.0	0.558	
1.0	0.583	0.477	0.536	0.726	1.057	1.583	13.5	0.608		

* DISTANCE FROM FACE OF CURB (ON HIGH SIDE) TO CROWN



- JOINT LEGEND**
- (B) LONGITUDINAL BULKHEAD JOINT, ACCORDING TO M.D.O.T. STD. DWG. II-41D
 - (D) LONGITUDINAL LANE TIE JOINT WITH TIE BAR, ACCORDING TO M.D.O.T. STD. DWG. II-41D
 - (B) OPTIONAL, B OR D
- EARTHWORK LEGEND**
- REMOVE BITUMINOUS SURFACE (COLD MILL)
 - AGGREGATE BASE - CONCRETE (4" IN PLACE) - FILL (21A)
 - GRANULAR MATERIAL CLASS II (SEE NOTE #2)
 - 4 1/2" TOPSOIL PLUS SEEDING
 - SELECTED EXCAVATED MATERIAL (INCLUDED IN PAVING COSTS)
 - PROPOSED BITUMINOUS SURFACE
 - BASEMENT WALL REMOVAL

- 1 REMOVE WALLS 3'-0" BELOW LOWEST POINT OF PROP PAV'T. SURFACE UP TO 2'-0" BEYOND FACE OF CURB.
- 2 REMOVE WALLS TO BOTTOM OF PROP PAV'T. SLAB IN BERM AREA
- 3 REMOVE WALLS TO 1'-0" BELOW THE PROP SURFACE ELEVATIONS IN THIS AREA

MISCELLANEOUS QUANTITIES

MOBILIZATION	1	LUMP SUM
MINOR TRAFFIC DEVICES	1	LUMP SUM
FIELD OFFICE	6	MONTHS

ESTIMATED QUANTITIES FOR USE AT THE DISCRETION OF THE ENGINEER

REMOVING PAV'T. (REPAIR)	50	SQ. YDS.
CONC. PAV'T. REPAIR, 10", NONREINFORCED	50	SQ. YDS.
BASEMENT CLEANOUT	2,600	CU. YDS.
SUBGRADE UNDERCUTTING, TYPE II	1,500	CU. YDS.
4" CONCRETE SIDEWALK	500	SQ. FT.
REMOVING SIDEWALK	100	SQ. YDS.
CLEANING EXISTING STORM DRAINAGE STRUCTURES	6	EACH
CLASS "A" SODDING	100	SQ. YDS.
TOPSOIL SURFACE - 3"	50	CU. YDS.
WATER	2	UNITS
REMOVING MASONRY & CONCRETE STRUCTURES	100	CU. YDS.
SEWER CLEANOUT	100	LIN. FT.
CEMENT	6	TONS
CONCRETE CURB, DETAIL "CD"	130	LIN. FT.
RECONSTRUCTING DRAINAGE STRUCTURE CASE 1	1	EACH
ADJUSTING DRAINAGE STRUCTURE COVER, CASE 2	1	EACH
STRUCTURE COVERS	700	LBS.

- GENERAL NOTES**
- UNLESS SHOWN AS A SEPARATE-TYPE CURB, THE PROPOSED CURB SHALL BE AN INTEGRAL CURB (SEE DETAIL THIS SHEET) WITH CONCRETE CURB DETAIL "CD" AS AN ALTERNATE. REGARDLESS OF CONSTRUCTION METHOD THE PROPOSED CURB SHALL BE PAID FOR AS "CONCRETE PAV'T. (REINF.)-9" UNIFORM WITH INTEGRAL CURB".
 - GRANULAR MATERIAL CLASS II WHICH IS USED FOR BACKFILL OTHER THAN REQUIRED FOR BASEMENT CLEANOUT, SHALL BE PAID FOR AS "EMBANKMENT - GRANULAR MAT'L. CLASS II."
 - FOR TYPICAL SECTIONS OF WARREN AND THE PROPOSED LANDSCAPED BERM, SEE SHEET NO. 17

BITUMINOUS APPLICATION CHART

ITEM	RATE OF APPLICATION	ESTIMATED THICKNESS	ASPHALT PENETRATION
BITUMINOUS MIXTURE NO. 3C	170 #/SY.	1 1/2 INCHES	85-100
BITUMINOUS MIXTURE NO. 4C	160 /SY.	1 1/2 INCHES	85-100
BITUMINOUS BOND COAT 0-0.10 GAL./SY. TO RIGID BASES AND 0.05 GAL./SY. TACK COAT BETWEEN LAYERS			

BY: B.J.P., CM	CHECKED BY: N.W.	APPROVED: <i>Dadiu Haidar</i>
PLAN	GRADE	ESTIMATE
DESCRIPTION	DRN	CR
REVISIONS	DATE	FINAL

CITY OF DETROIT
CITY ENGINEERING DIVISION - D.R.W.
BUREAU OF STREETS AND HIGHWAYS

RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN

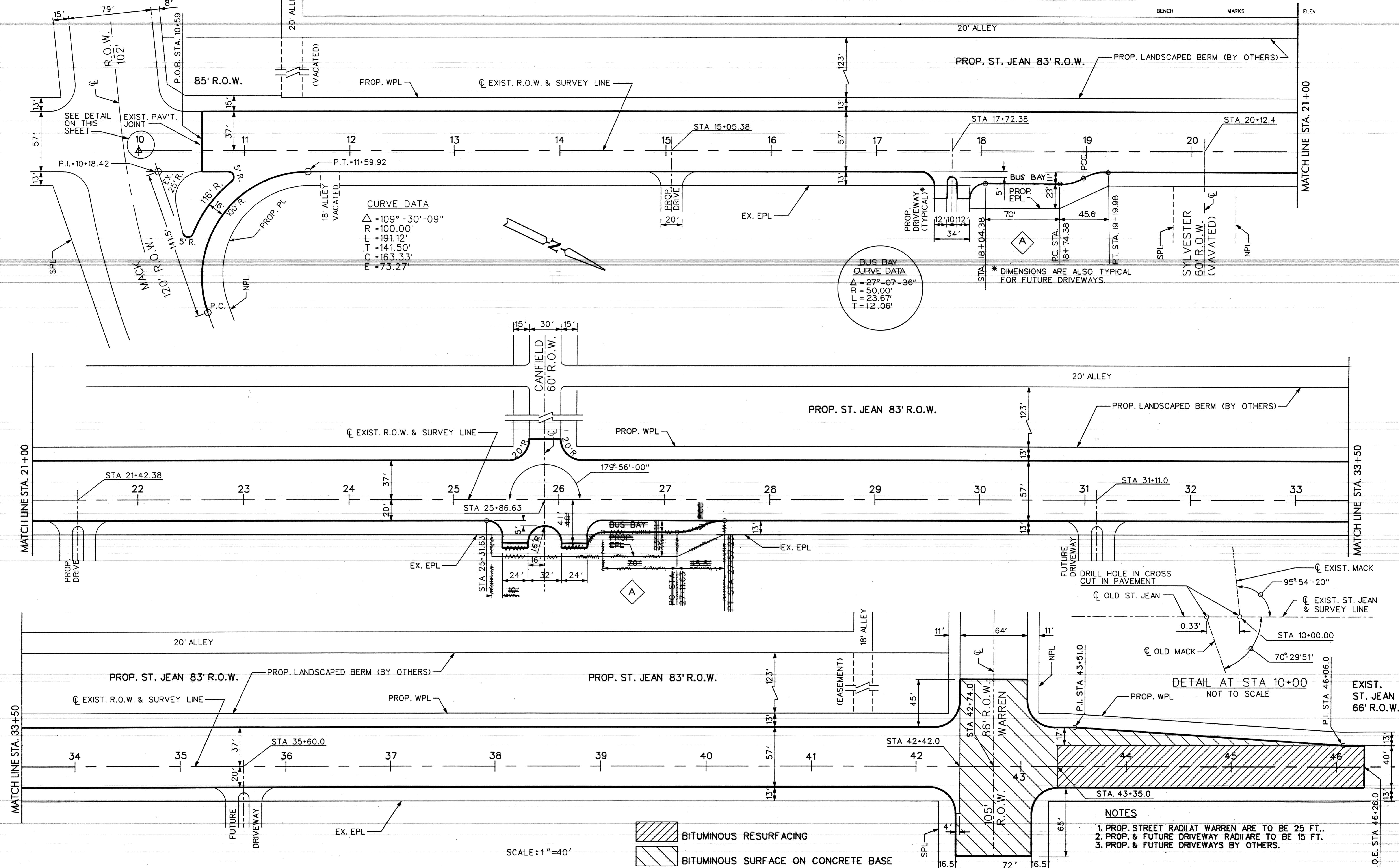
TYPICAL CROSS-SECTIONS

SHEET 2 OF 51 SHEETS

CONTRACT NO.

ASSIGNMENT NO. 96-22-20

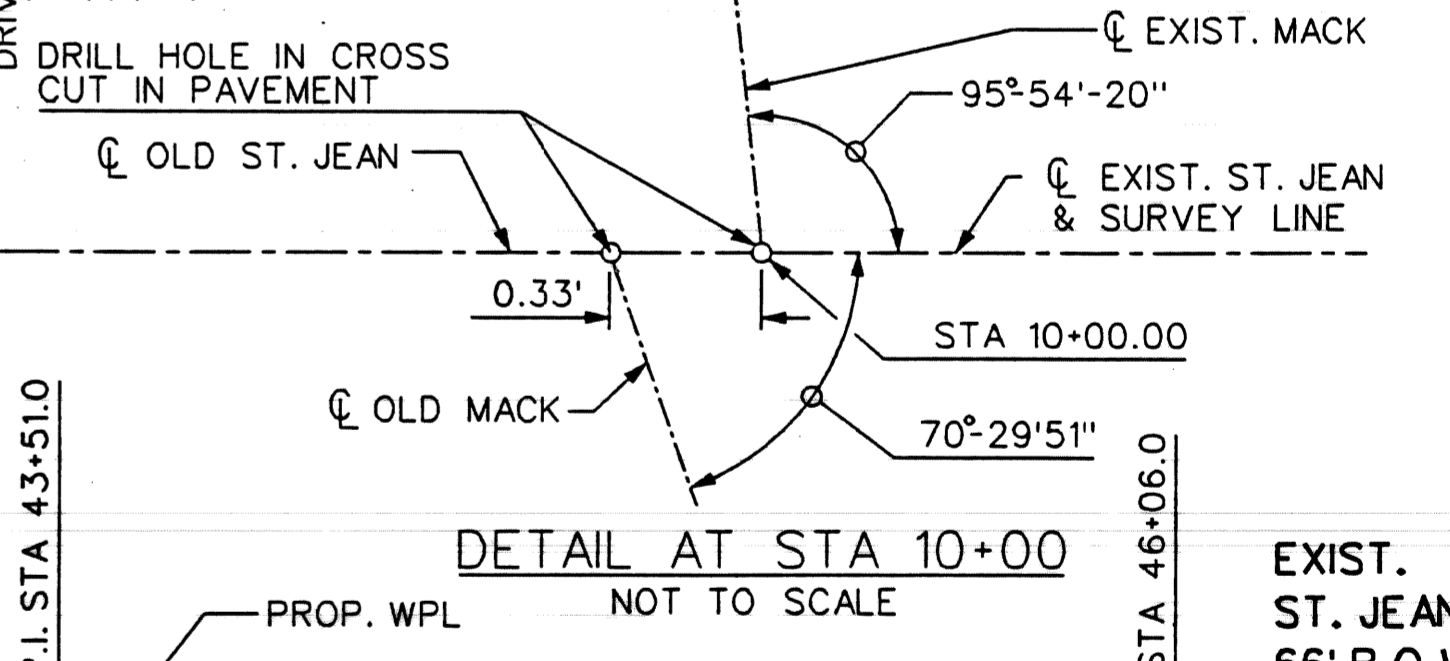
DATE JAN., 1997



CURVE DATA
 $\Delta = 109^\circ - 30' - 09''$
 $R = 100.00'$
 $L = 191.12'$
 $T = 141.50'$
 $C = 163.33'$
 $E = 73.27'$

BUS BAY CURVE DATA
 $\Delta = 27^\circ - 07' - 36''$
 $R = 50.00'$
 $L = 23.67'$
 $T = 12.06'$

* DIMENSIONS ARE ALSO TYPICAL FOR FUTURE DRIVEWAYS.



- NOTES**
1. PROP. STREET RADIAT WARREN ARE TO BE 25 FT..
 2. PROP. & FUTURE DRIVEWAY RADIARE TO BE 15 FT.
 3. PROP. & FUTURE DRIVEWAYS BY OTHERS.

SCALE: 1"=40'

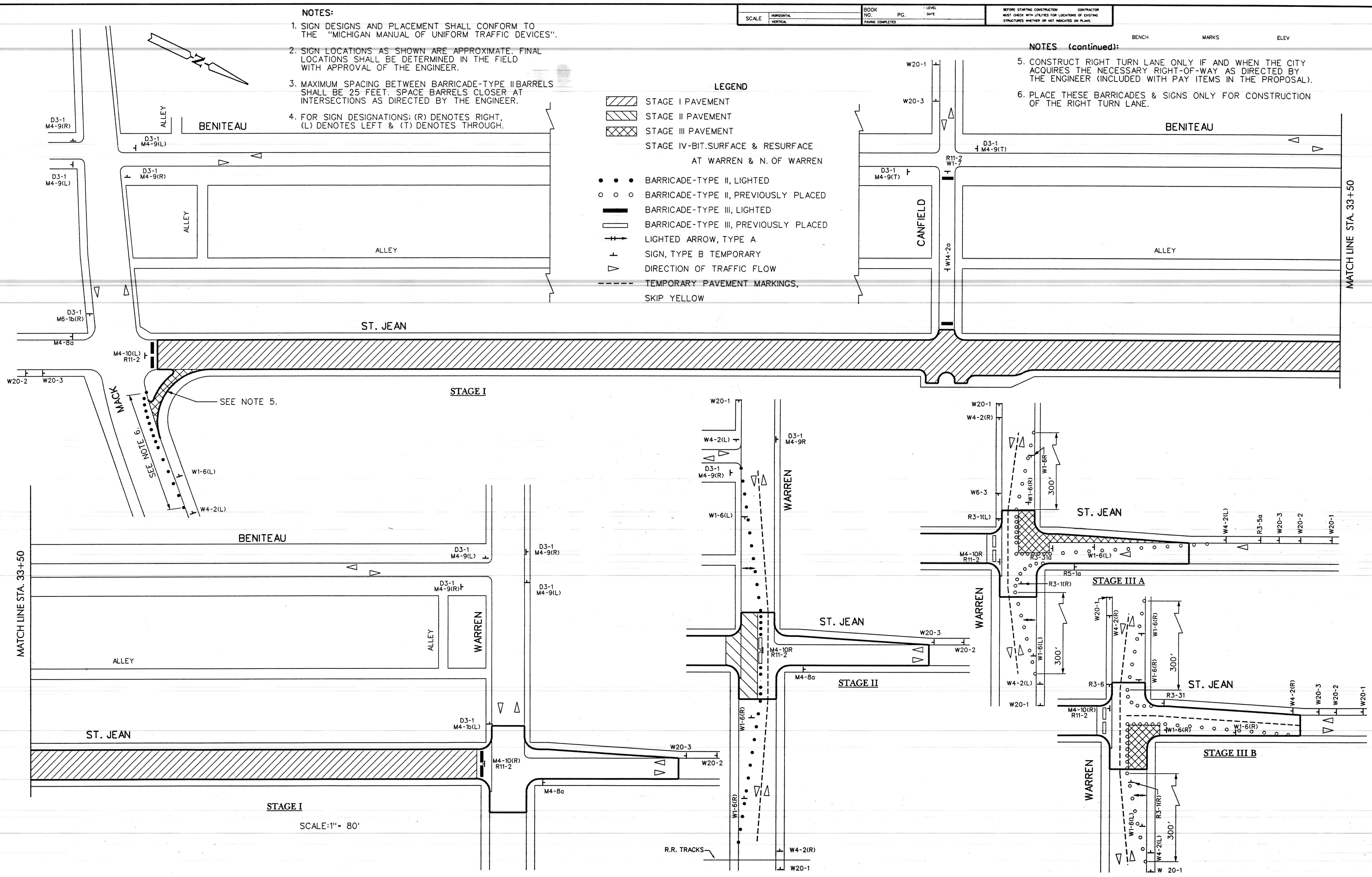
BITUMINOUS RESURFACING
 BITUMINOUS SURFACE ON CONCRETE BASE

RELOCATED BUS BAY	KMNWJH 6/97	BY	CHECKED BY	APPROVED	CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN	SHEET 3 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN. ,1997	
		PLAN	K.M.	N.W.				<i>Radwan Haidar</i>
		GRADE						
		ESTIMATE						
DESCRIPTION	DR MCK DAPY DATE	FINAL	****	****				
REVISIONS								

- NOTES:**
- SIGN DESIGNS AND PLACEMENT SHALL CONFORM TO THE "MICHIGAN MANUAL OF UNIFORM TRAFFIC DEVICES".
 - SIGN LOCATIONS AS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD WITH APPROVAL OF THE ENGINEER.
 - MAXIMUM SPACING BETWEEN BARRICADE-TYPE II BARRELS SHALL BE 25 FEET. SPACE BARRELS CLOSER AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
 - FOR SIGN DESIGNATIONS: (R) DENOTES RIGHT, (L) DENOTES LEFT & (T) DENOTES THROUGH.

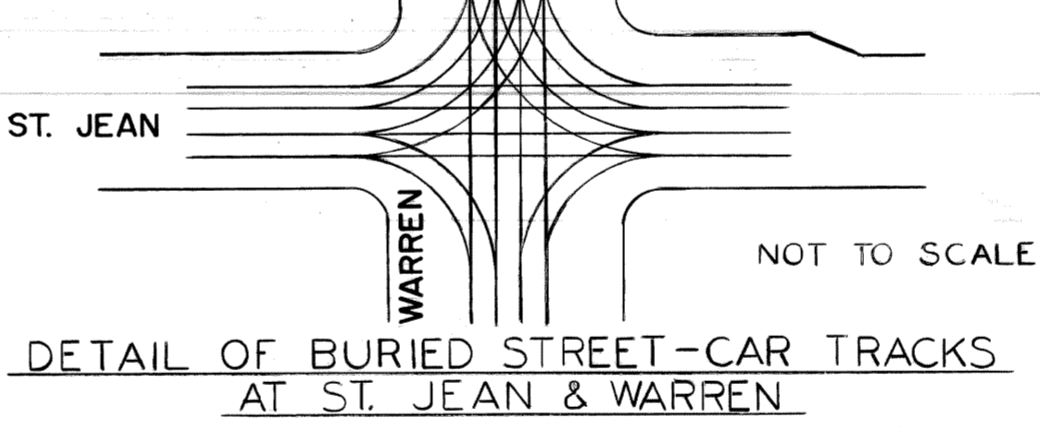
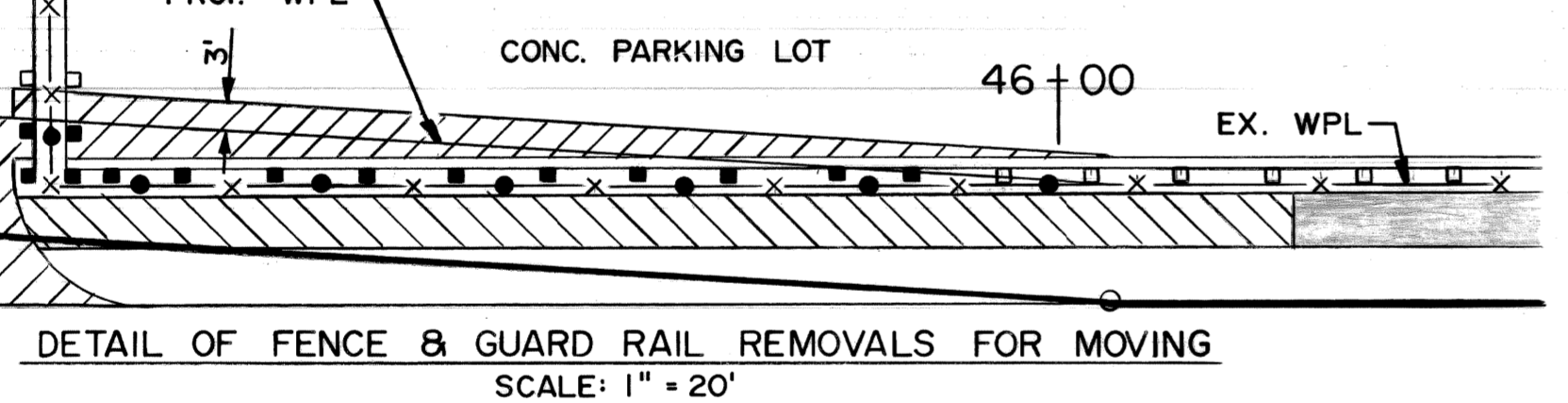
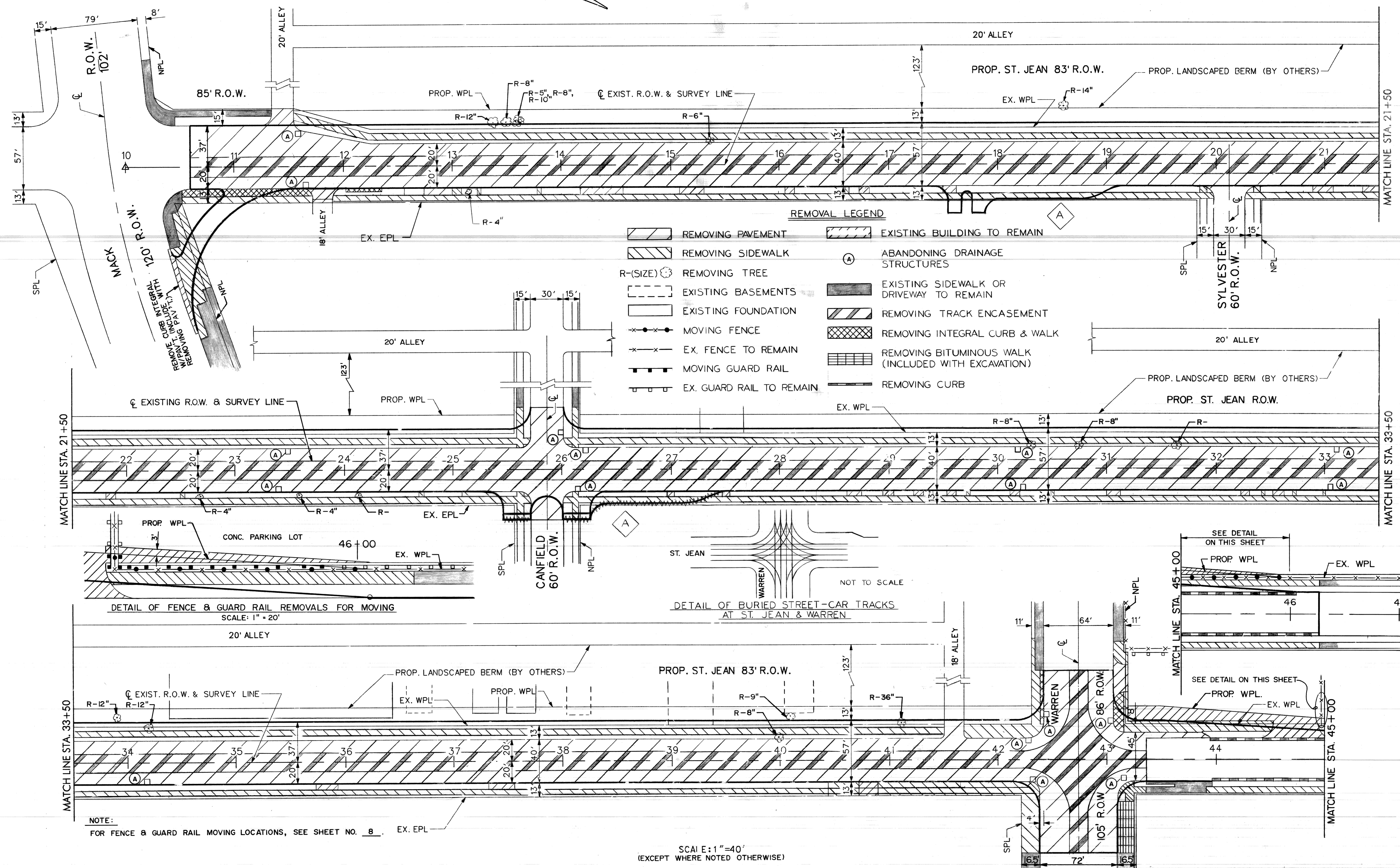
- NOTES (continued):**
- CONSTRUCT RIGHT TURN LANE ONLY IF AND WHEN THE CITY ACQUIRES THE NECESSARY RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER (INCLUDED WITH PAY ITEMS IN THE PROPOSAL).
 - PLACE THESE BARRICADES & SIGNS ONLY FOR CONSTRUCTION OF THE RIGHT TURN LANE.

- LEGEND**
- STAGE I PAVEMENT
 - STAGE II PAVEMENT
 - STAGE III PAVEMENT
 - STAGE IV-BIT SURFACE & RESURFACE AT WARREN & N. OF WARREN
 - BARRICADE-TYPE II, LIGHTED
 - BARRICADE-TYPE II, PREVIOUSLY PLACED
 - BARRICADE-TYPE III, LIGHTED
 - BARRICADE-TYPE III, PREVIOUSLY PLACED
 - LIGHTED ARROW, TYPE A
 - SIGN, TYPE B TEMPORARY
 - DIRECTION OF TRAFFIC FLOW
 - TEMPORARY PAVEMENT MARKINGS, SKIP YELLOW



STAGE I
SCALE: 1" = 80'

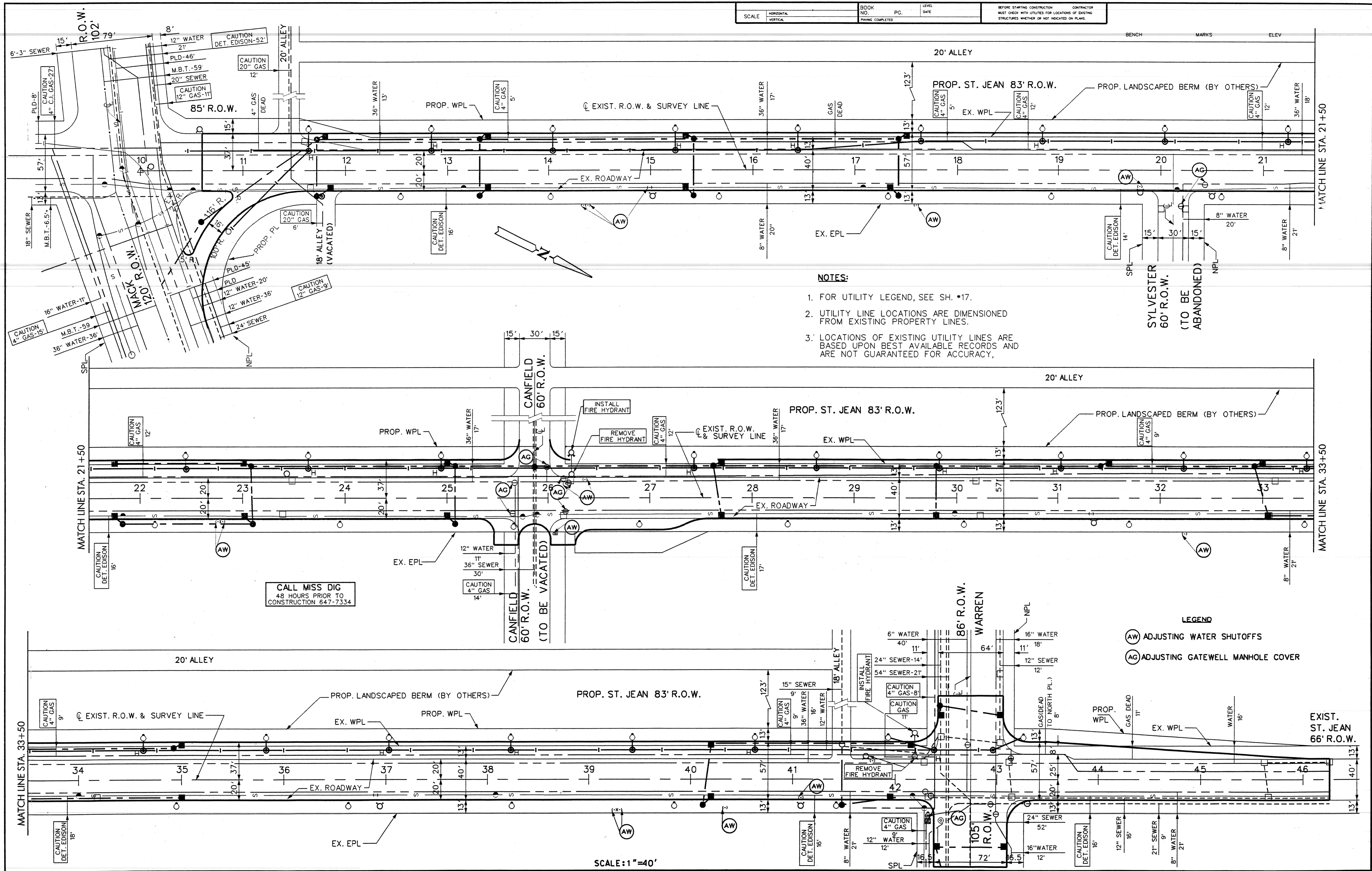
<table border="1"> <tr> <td>DESCRIPTION</td> <td>DR</td> <td>CHK</td> <td>DATE</td> </tr> <tr> <td>REVISIONS</td> <td></td> <td></td> <td></td> </tr> </table>	DESCRIPTION	DR	CHK	DATE	REVISIONS				<table border="1"> <tr> <td>PLAN</td> <td>K.M.</td> <td>CHECKED BY</td> <td>N.W.</td> <td>APPROVED</td> <td><i>Dadiu Haidar</i></td> </tr> <tr> <td>GRADE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ESTIMATE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FINAL</td> <td>*****</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	PLAN	K.M.	CHECKED BY	N.W.	APPROVED	<i>Dadiu Haidar</i>	GRADE						ESTIMATE						FINAL	*****					<p align="center">CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS</p>	<p align="center">RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN</p> <p align="center">CONSTRUCTION SEQUENCE</p>	<p>SHEET 4 OF 51 SHEETS</p> <p>CONTRACT NO.</p> <p>ASSIGNMENT NO. 96-22-20</p> <p>DATE JAN., 1997</p>
	DESCRIPTION	DR	CHK	DATE																																
	REVISIONS																																			
	PLAN	K.M.	CHECKED BY	N.W.	APPROVED	<i>Dadiu Haidar</i>																														
GRADE																																				
ESTIMATE																																				
FINAL	*****																																			



NOTE:
 FOR FENCE & GUARD RAIL MOVING LOCATIONS, SEE SHEET NO. 8. EX. EPL

SCALE: 1" = 40'
 (EXCEPT WHERE NOTED OTHERWISE)

	RELOCATED BUS BAY	NW	N.H. 97	PLAN	K.M.	CHECKED BY	N.W.	APPROVED:	CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS	RECONSTRUCTION OF ST. JEAN FROM MACK TO WARREN REMOVALS	SHEET 5 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
	DESCRIPTION	REVISIONS	OR	DATE	FINAL	*****	*****	Dariusz Haidar ENGINEER			



- NOTES:**
1. FOR UTILITY LEGEND, SEE SH. #17.
 2. UTILITY LINE LOCATIONS ARE DIMENSIONED FROM EXISTING PROPERTY LINES.
 3. LOCATIONS OF EXISTING UTILITY LINES ARE BASED UPON BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.

CALL MISS DIG
48 HOURS PRIOR TO
CONSTRUCTION 647-7334

- LEGEND**
- (AW) ADJUSTING WATER SHUTOFFS
 - (AG) ADJUSTING GATEWELL MANHOLE COVER

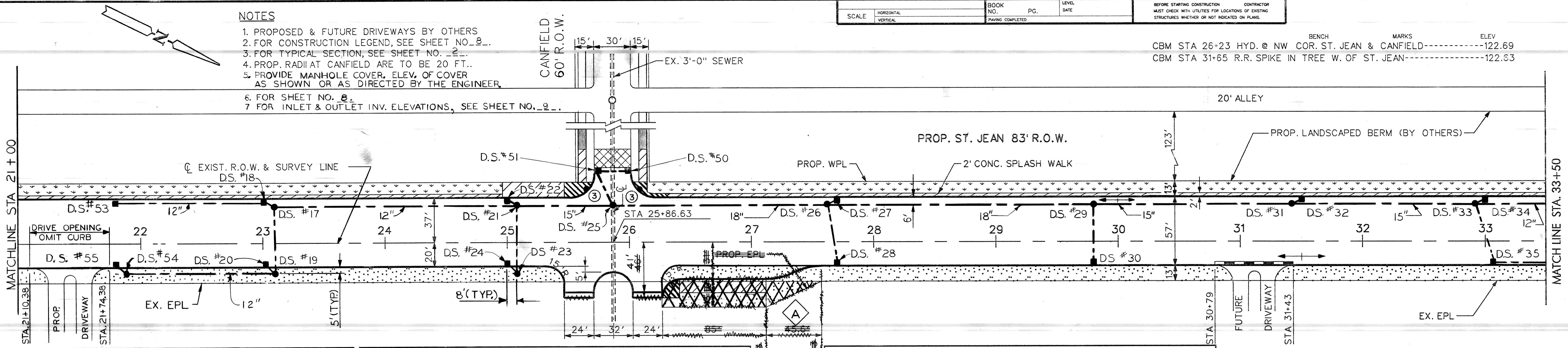
SCALE: 1"=40'

REVISIONS DESCRIPTION DR. MCK. DAP. VDATE FINAL *****	PLAN	K.M.	CHECKED BY	N.W.	APPROVED BY	CITY OF DETROIT CITY ENGINEERING DIVISION - D.P.W. BUREAU OF STREETS AND HIGHWAYS OBSOLETE - FINAL PLAN BEFORE REVISIONS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN UTILITIES	SHEET 10 OF 51 SHEETS
	GRADE							CONTRACT NO.
	ESTIMATE							ASSIGNMENT NO. 96-22-20
	DATE							DATE JAN. ,1997

NOTES

1. PROPOSED & FUTURE DRIVEWAYS BY OTHERS
2. FOR CONSTRUCTION LEGEND, SEE SHEET NO. 8.
3. FOR TYPICAL SECTION, SEE SHEET NO. 2.
4. PROP. RADII AT CANFIELD ARE TO BE 20 FT..
5. PROVIDE MANHOLE COVER, ELEV. OF COVER AS SHOWN OR AS DIRECTED BY THE ENGINEER.
6. FOR SHEET NO. 8.
7. FOR INLET & OUTLET INV. ELEVATIONS, SEE SHEET NO. 9.

BENCH MARKS ELEV
 CBM STA 26+23 HYD. @ NW COR. ST. JEAN & CANFIELD-----122.69
 CBM STA 31+65 R.R. SPIKE IN TREE W. OF ST. JEAN-----122.63



DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76			
17	STD. M.H.		199	12	IV	199		
18	C.B. "B"	T	6	12	III	6		
19	C.B. "B"	T	56	12	IV	56	5	
20	C.B. "A"		7	12	III	7		
21	STD. M.H.		79	15	IV	79		
22	C.B. "B"	T	6	12	III	6		
23	C.B. "B"	T	56	12	IV	56	5	
24	C.B. "A"		7	12	III	7		
25	DROP M.H.							
26	STD. M.H.		175	18	IV	175		
27	C.B. "B"	T	6	12	III	6		

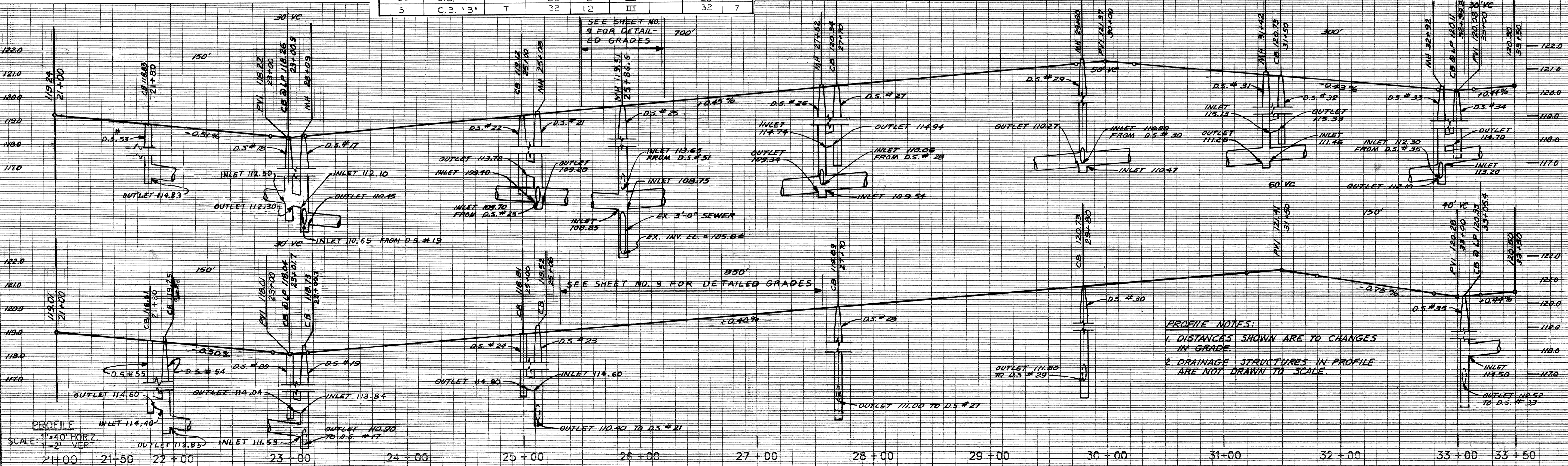
DRAINAGE STRUCTURE TABLE (continued)

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76			
28	C.B. "B"	T	51	12	IV	51		
29	STD. M.H.		218	18	IV	218		
30	C.B. "B"	T	50	12	IV	50		
31	STD. M.H.		162	15	IV	162		
32	C.B. "B"	T	6	12	III	6		
33	STD. M.H.		150	15	IV	150		
34	C.B. "B"	T	6	12	III	6		
35	C.B. "B"	T	52	12	IV	52		
36	STD. M.H.		200	12	IV	200	6	
37	C.B. "B"	T	6	12	III	6	6	
38	C.B. "A"		195	12	IV	195	6	
50	C.B. "A"		28	12	III	28	7	
51	C.B. "B"	T	32	12	III	32	7	

DRAINAGE STRUCTURE TABLE (FOR SHEET NO. 8)

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76			
39	C.B. "B"	T	139	12	IV	12	139	
40	C.B. "B"	T	63	12	IV	63	5	
41	C.B. "A"		7	12	III	7		
42	C.B. "B"	T	60	12	IV	12	5	
43	C.B. "A"		42	12	III	42		
44	C.B. "B"	T	56	12	III	12	56	
45	DROP M.H.							
46	C.B. "B"	T	6	12	III	6		
47	C.B. "B"	T	63	12	IV	63		
48	C.B. "B"	T	42	12	III	12	42	
49	C.B. "A"		70	12	III	70		

PLAN SCALE: 1"=40'



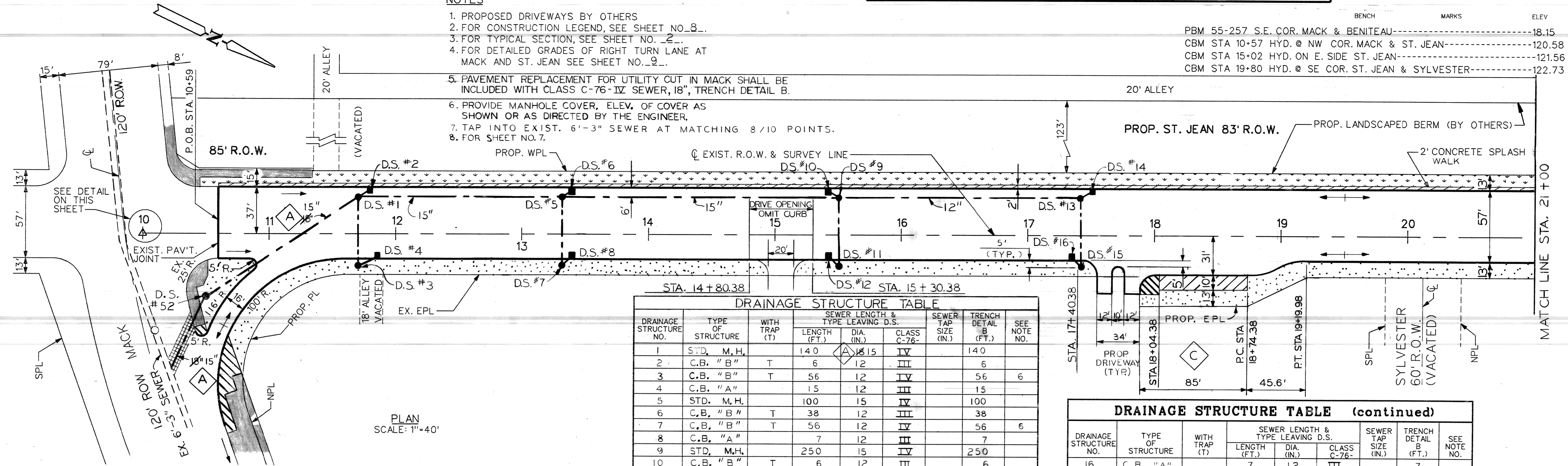
PROFILE NOTES:
 1. DISTANCES SHOWN ARE TO CHANGES IN GRADE.
 2. DRAINAGE STRUCTURES IN PROFILE ARE NOT DRAWN TO SCALE.

RELOCATED BUS BAY (SEE SHEET NO. 6)	KMNW/JH/6/97	PLAN K.M. N.W.	APPROVED: <i>Radiu Haider</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DIVISION, D.P.W. BUREAU OF STREETS AND HIGHWAYS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN PAVING PLAN AND PROFILES STA. 21+00 TO STA. 33+50	SHEET 7 OF 51 SHEETS
		ESTIMATE				CONTRACT NO.
DESCRIPTION REV ISIONS		CHECKED BY:		DATE:		JAN 1997

NOTES

1. PROPOSED DRIVEWAYS BY OTHERS
2. FOR CONSTRUCTION LEGEND, SEE SHEET NO. 8.
3. FOR TYPICAL SECTION, SEE SHEET NO. 2.
4. FOR DETAILED GRADES OF RIGHT TURN LANE AT MACK AND ST. JEAN SEE SHEET NO. 9.
5. PAVEMENT REPLACEMENT FOR UTILITY CUT IN MACK SHALL BE INCLUDED WITH CLASS C-76-IV SEWER, 18", TRENCH DETAIL B.
6. PROVIDE MANHOLE COVER, ELEV. OF COVER AS SHOWN OR AS DIRECTED BY THE ENGINEER.
7. TAP INTO EXIST. 6"-3" SEWER AT MATCHING 8/10 POINTS.
8. FOR SHEET NO. 7.

BENCH MARKS	ELEV.
PBM 55-257 S.E. COR. MACK & BENEITEAU	18.15
CBM STA 10+57 HYD. @ NW COR. MACK & ST. JEAN	120.58
CBM STA 15+02 HYD. ON E. SIDE ST. JEAN	121.56
CBM STA 19+80 HYD. @ SE COR. ST. JEAN & SYLVESTER	122.73



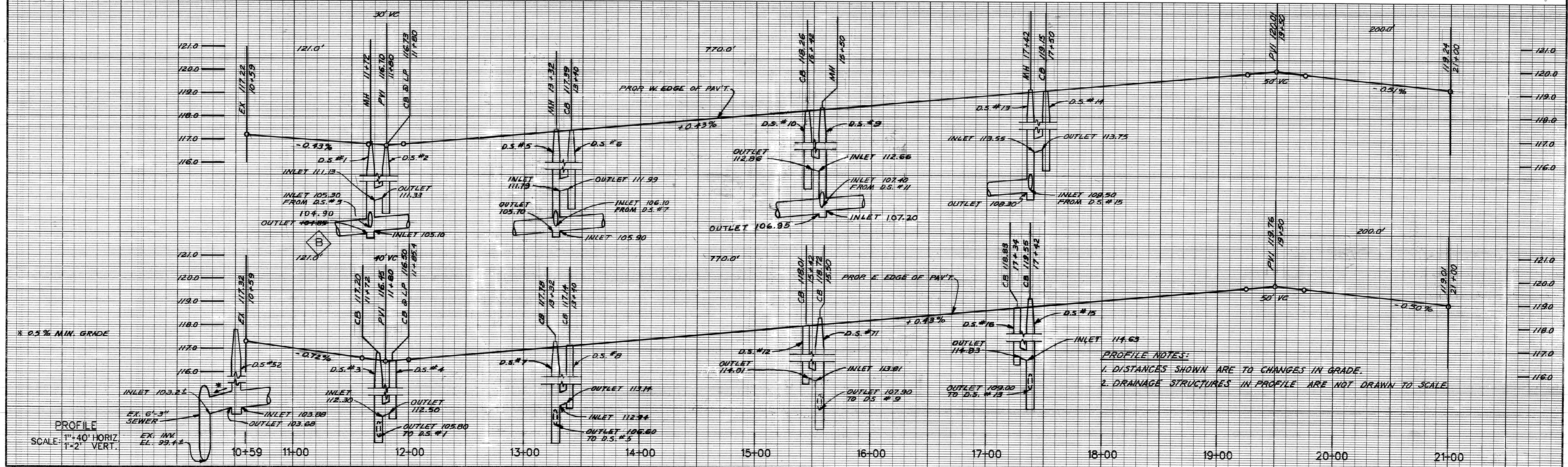
DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER TAP SIZE (IN.)	TRENCH DETAIL (FT.)	SEE NOTE NO.
1	STD. M.H.		140 15	IV	140	
2	C.B. "B"	T	6 12	III	6	
3	C.B. "B"	T	56 12	IV	56	6
4	C.B. "A"		15 12	III	15	
5	STD. M.H.		100 15	IV	100	
6	C.B. "B"	T	38 12	III	38	
7	C.B. "B"	T	56 12	IV	56	6
8	C.B. "A"		7 12	III	7	
9	STD. M.H.		250 15	IV	250	
10	C.B. "B"	T	6 12	III	6	
11	C.B. "B"		56 12	IV	56	6
12	C.B. "A"		7 12	III	7	
13	STD. M.H.		220 12	IV	220	
14	C.B. "B"	T	6 12	III	6	
15	C.B. "B"	T	56 12	IV	56	6

DRAINAGE STRUCTURE TABLE (continued)

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER TAP SIZE (IN.)	TRENCH DETAIL (FT.)	SEE NOTE NO.
16	C.B. "A"		7 12	III	7	
52	STD. M.H.		60 15	IV	60	7
53	C.B. "A"		121 12	III	121	8
54	C.B. "B"		122 12	III	122	6,8
55	C.B. "A"		7 12	III	7	8

PLAN SCALE: 1"=40'



PROFILE NOTES:
 1. DISTANCES SHOWN ARE TO CHANGES IN GRADE.
 2. DRAINAGE STRUCTURES IN PROFILE ARE NOT DRAWN TO SCALE.

- CHANGED SEWER DIAMETERS FROM 18" TO 15"
- CHANGED INV. EL. FROM 104.85 TO 104.90
- RELOCATED BUS BAY

BY	K.M.
CHECKED BY	N.W.
APPROVED	<i>Dadiun Heidar</i>

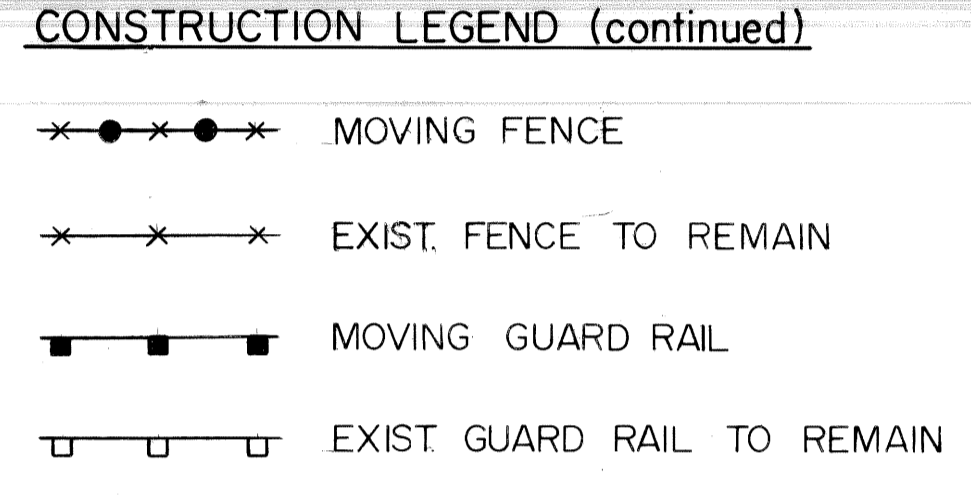
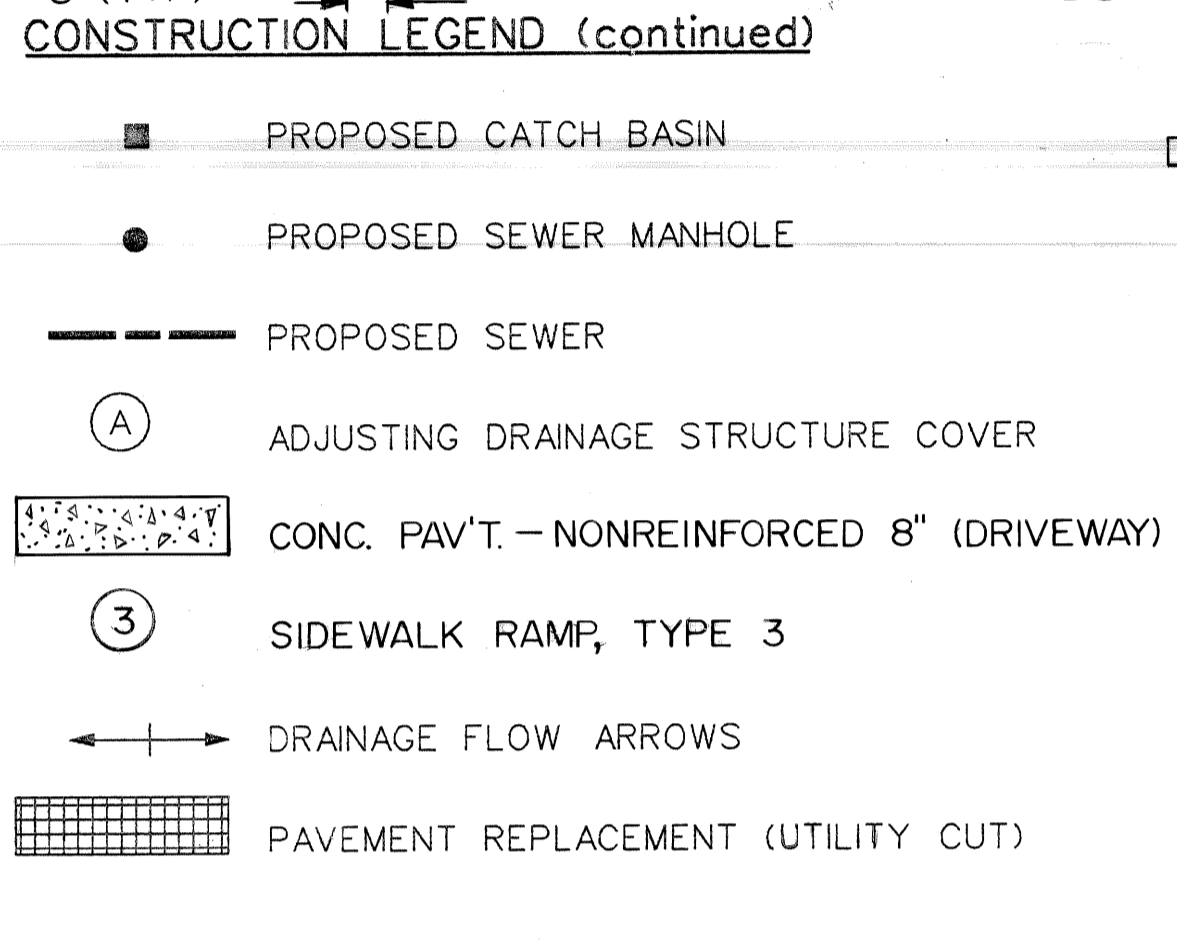
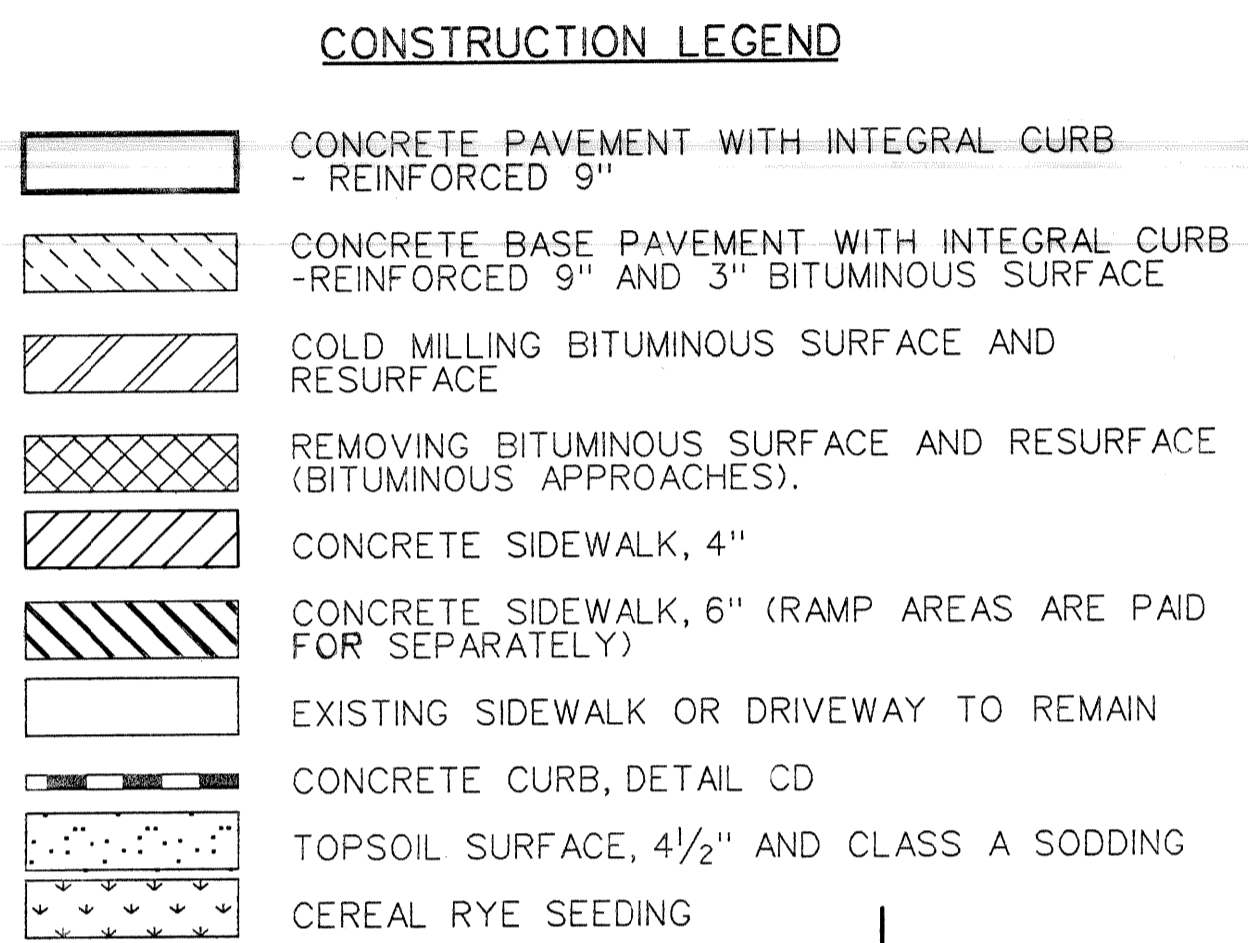
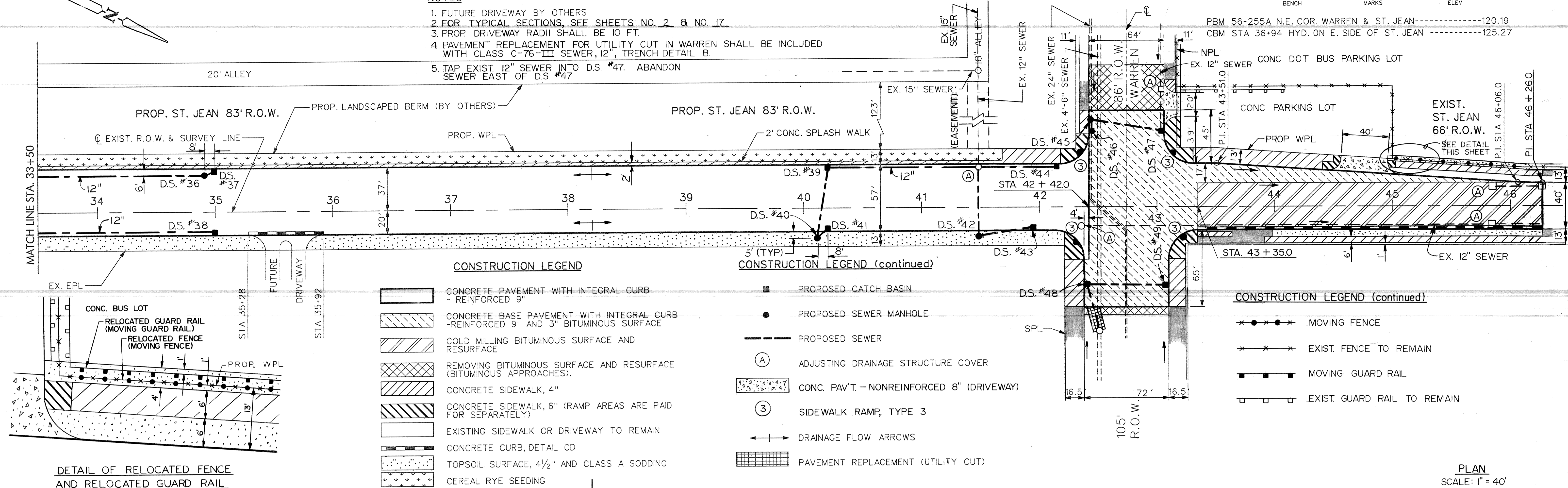
CITY OF DETROIT
 CITY ENGINEERING DIVISION, D.P.W.
 BUREAU OF STREETS AND HIGHWAYS

RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN
 PAVING PLAN AND PROFILES
 MACK TO STA. 21+00

SHEET 6 OF 51 SHEETS
CONTRACT NO.
ASSIGNMENT NO. 96-22-20
DATE JAN., 1997

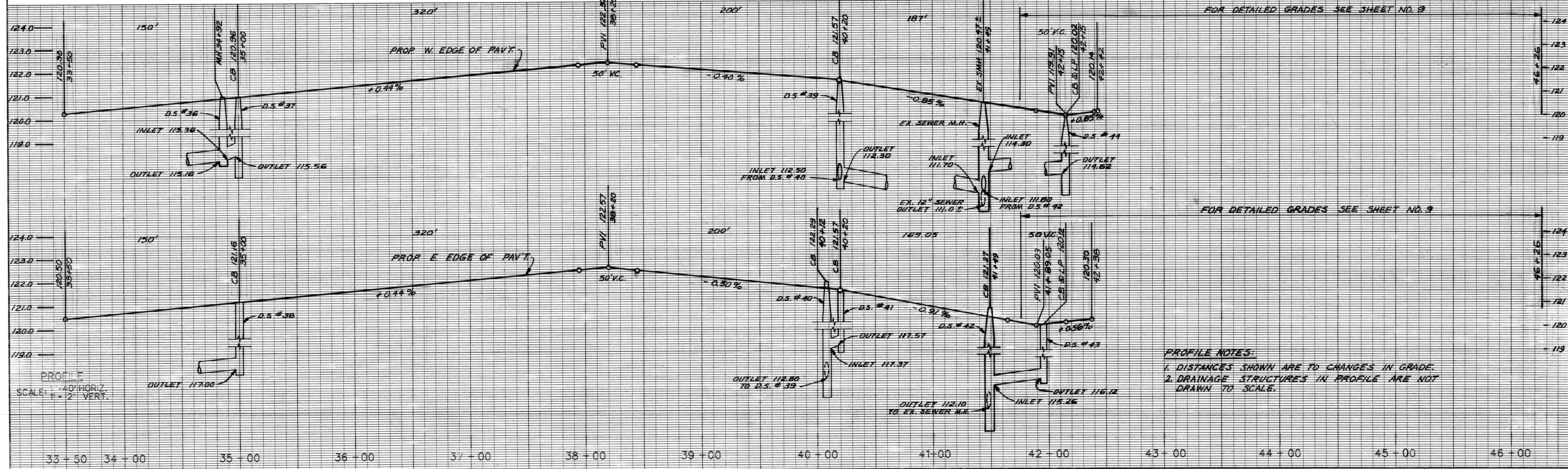
NOTES

1. FUTURE DRIVEWAY BY OTHERS
2. FOR TYPICAL SECTIONS, SEE SHEETS NO. 2 & NO. 17.
3. PROP DRIVEWAY RADII SHALL BE 10 FT.
4. PAVEMENT REPLACEMENT FOR UTILITY CUT IN WARREN SHALL BE INCLUDED WITH CLASS C-76-III SEWER, 12", TRENCH DETAIL B.
5. TAP EXIST. 12" SEWER INTO D.S. #47. ABANDON SEWER EAST OF D.S. #47.



DETAIL OF RELOCATED FENCE AND RELOCATED GUARD RAIL
SCALE: 1" = 10'

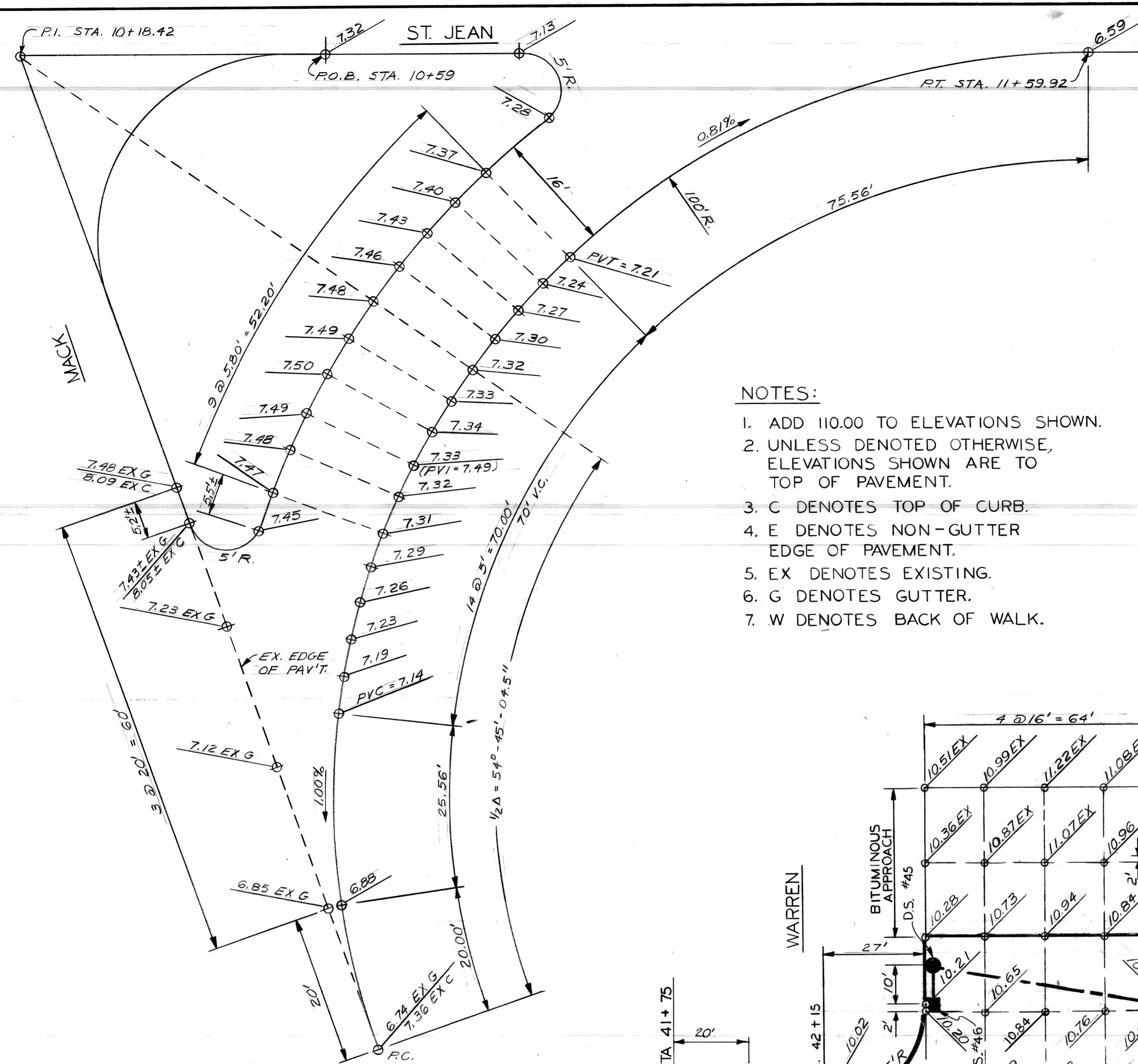
PLAN
SCALE: 1" = 40'



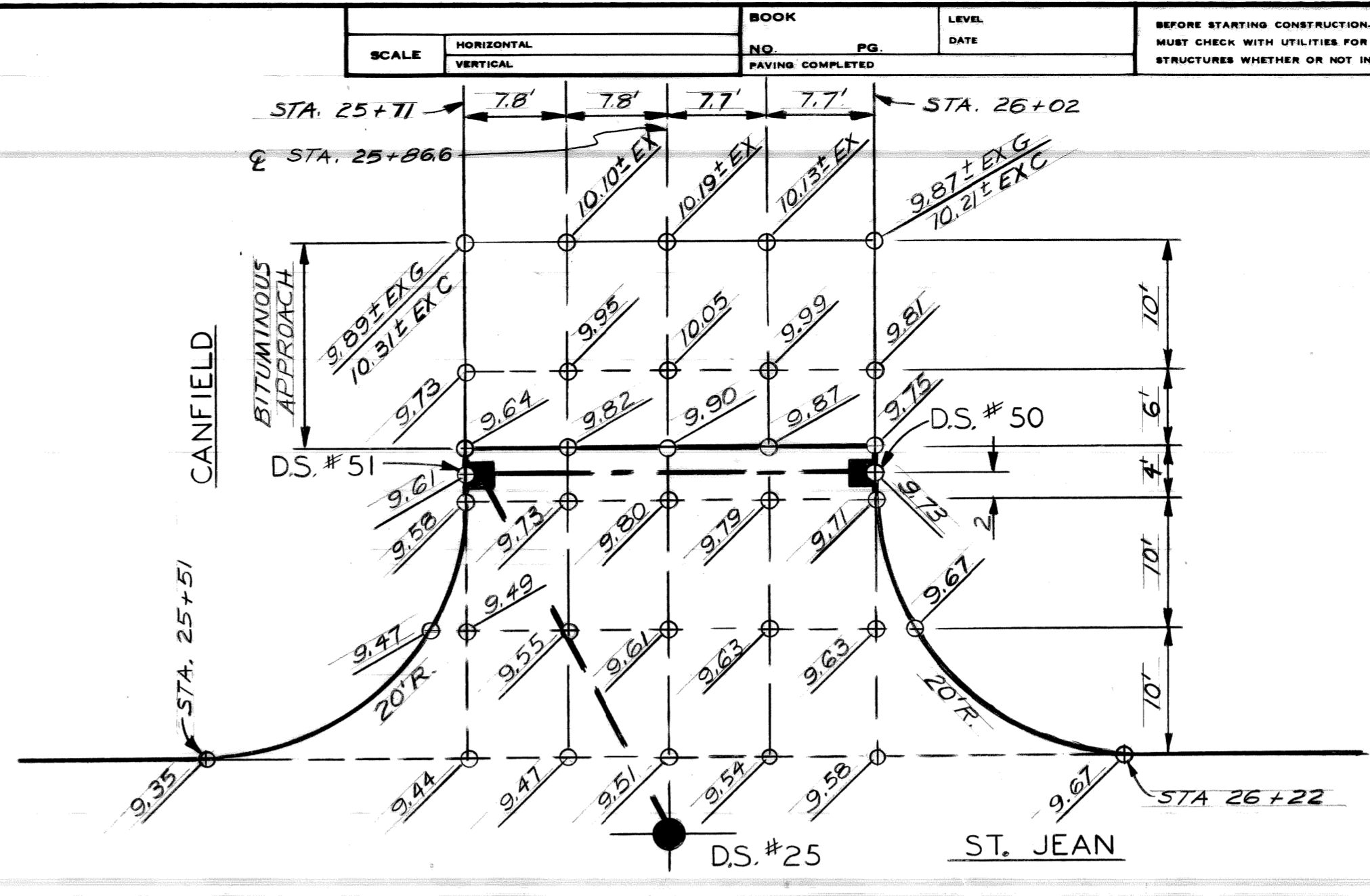
PROFILE NOTES:

1. DISTANCES SHOWN ARE TO CHANGES IN GRADE.
2. DRAINAGE STRUCTURES IN PROFILE ARE NOT DRAWN TO SCALE.

PLAN GRADE ESTIMATE		BY: K.M. CHECKED BY: N.W. APPROVED BY: <i>Dodun Haidar</i>	CITY OF DETROIT CITY ENGINEERING DIVISION, D.P.W. BUREAU OF STREETS AND HIGHWAYS	RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN PAVING PLAN AND PROFILES STA. 33+50 TO 352 FT. NORTH OF C. WARREN	SHEET NO. SHEET 8 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
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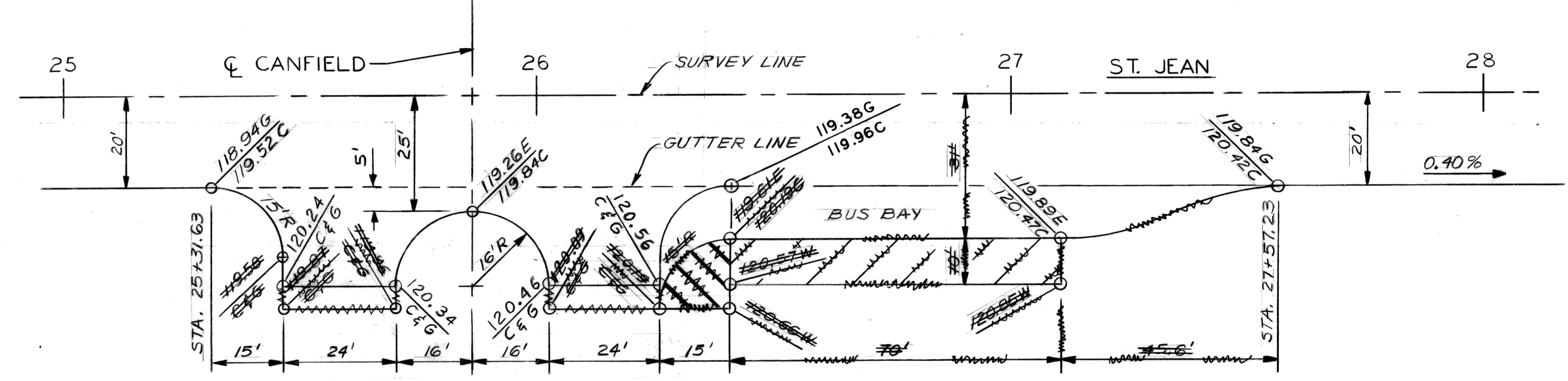


- NOTES:
1. ADD 110.00 TO ELEVATIONS SHOWN.
 2. UNLESS DENOTED OTHERWISE, ELEVATIONS SHOWN ARE TO TOP OF PAVEMENT.
 3. C DENOTES TOP OF CURB.
 4. E DENOTES NON-GUTTER EDGE OF PAVEMENT.
 5. EX DENOTES EXISTING.
 6. G DENOTES GUTTER.
 7. W DENOTES BACK OF WALK.



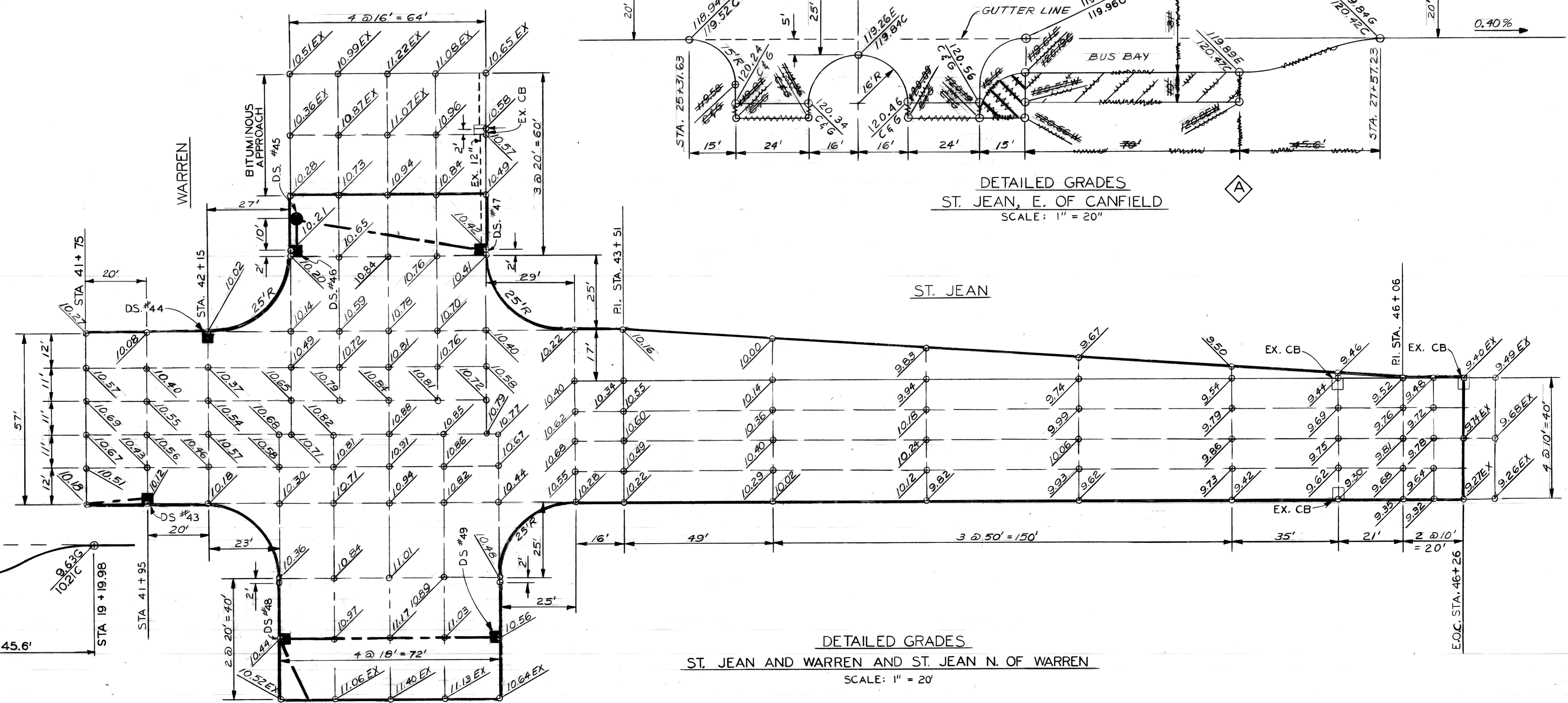
- SEWER INVERT ELEVATIONS
- OUTLET 115.73 AT D.S. #50
 - INLET 115.13 AT D.S. #51
 - OUTLET 114.21 AT D.S. #51
 - INLET 114.60 AT D.S. #45 FROM D.S. #46
 - INLET 110.50 AT D.S. #45 FROM D.S. #47
 - OUTLET 114.80 AT D.S. #46
 - OUTLET 111.10 AT D.S. #47
 - INLET 115.00 AT D.S. #48
 - OUTLET 114.80 AT D.S. #48
 - OUTLET 116.32 AT D.S. #49
 - INLET 114.00 AT EX. SMH FROM D.S. #48

DETAILED GRADES
ST. JEAN AND CANFIELD
SCALE: 1" = 10'

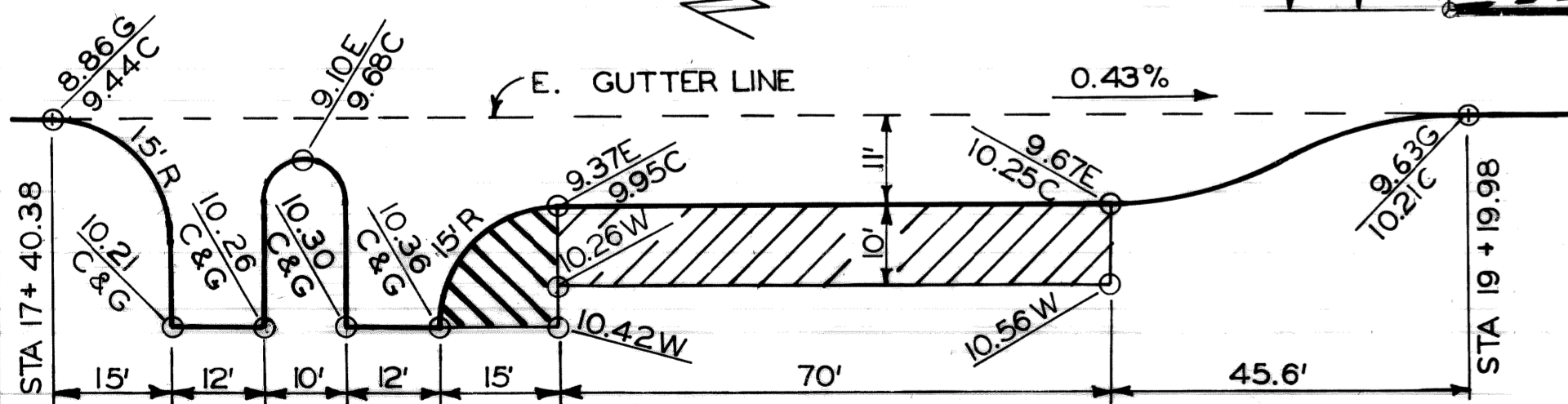


DETAILED GRADES
ST. JEAN, E. OF CANFIELD
SCALE: 1" = 20'

DETAILED GRADES
RIGHT TURN LANE FROM MACK TO ST. JEAN
SCALE: 1" = 10'

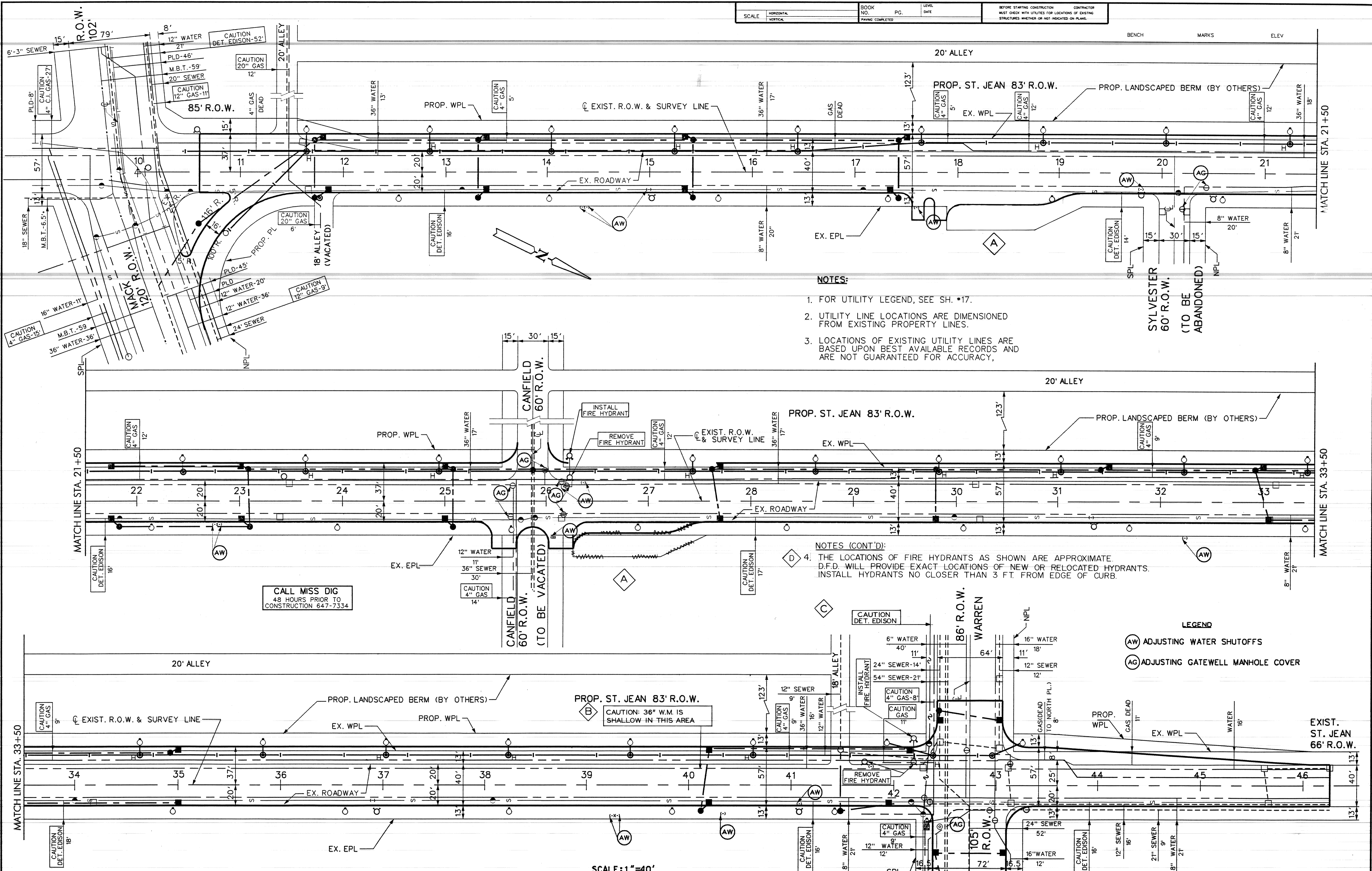


DETAILED GRADES
ST. JEAN AND WARREN AND ST. JEAN N. OF WARREN
SCALE: 1" = 20'



DETAILED GRADES
AT PROPOSED BUS BAY
SCALE: 1" = 20'

REVISIONS (A) REVISED DETAIL (B) ADDED DETAIL	KM, NW, J.H. 6/97 KM, NW, J.H. 6/97	PLAN CM GRADE NW ESTIMATE CHECK REVIEW	BY CHECKED BY APPROVED: <i>David Hojda</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DIVISION, D.R.W. BUREAU OF STREETS AND HIGHWAYS	RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN DETAILED GRADES	SHEET 9 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
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NOTES:

1. FOR UTILITY LEGEND, SEE SH. #17.
2. UTILITY LINE LOCATIONS ARE DIMENSIONED FROM EXISTING PROPERTY LINES.
3. LOCATIONS OF EXISTING UTILITY LINES ARE BASED UPON BEST AVAILABLE RECORDS AND ARE NOT GUARANTEED FOR ACCURACY.

NOTES (CONT'D):

4. THE LOCATIONS OF FIRE HYDRANTS AS SHOWN ARE APPROXIMATE. D.F.D. WILL PROVIDE EXACT LOCATIONS OF NEW OR RELOCATED HYDRANTS. INSTALL HYDRANTS NO CLOSER THAN 3 FT. FROM EDGE OF CURB.

LEGEND

- (AW) ADJUSTING WATER SHUTOFFS
- (AG) ADJUSTING GATEWELL MANHOLE COVER

CALL MISS DIG
48 HOURS PRIOR TO CONSTRUCTION 647-7334

SCALE: 1"=40'

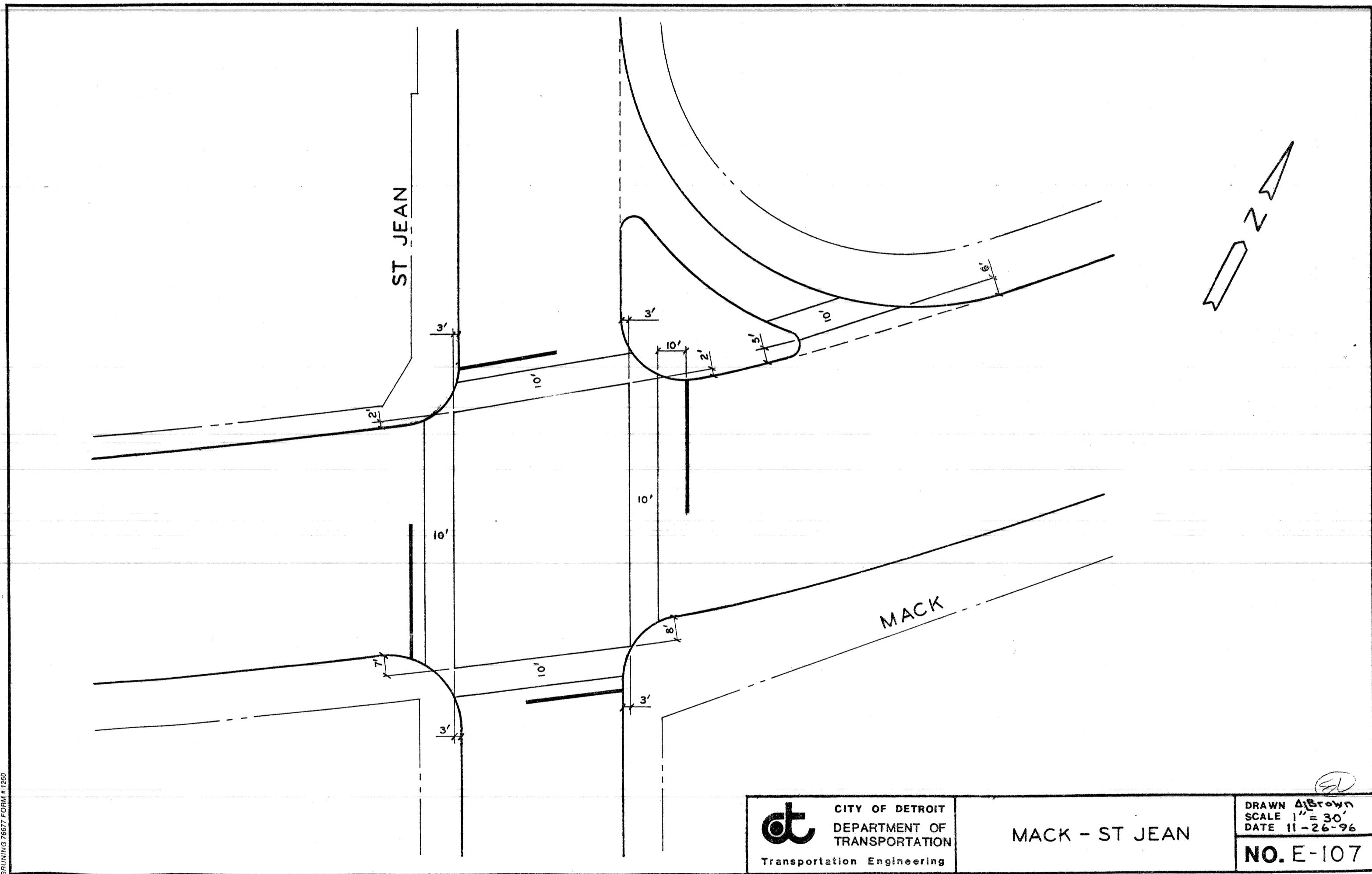
RELOCATED BUS BAY	KMINW 11/6/97	BY	CHECKED BY	APPROVED
ADDED CAUTION NOTE	KMINW 11/4/97	K.M.	N.W.	<i>Radiu Maida</i>
ADDED DE. CONDUIT	KMINW 11/4/97			
ADDED NOTE NO. 4	C.M.N.W. 10/17/97			
REVISIONS	DESCRIPTION	DATE	BY	REVISION

CITY OF DETROIT
CITY ENGINEERING DIVISION - D.P.W.
BUREAU OF STREETS AND HIGHWAYS

RECONSTRUCTION OF ST JEAN FROM MACK TO N. OF WARREN

UTILITIES

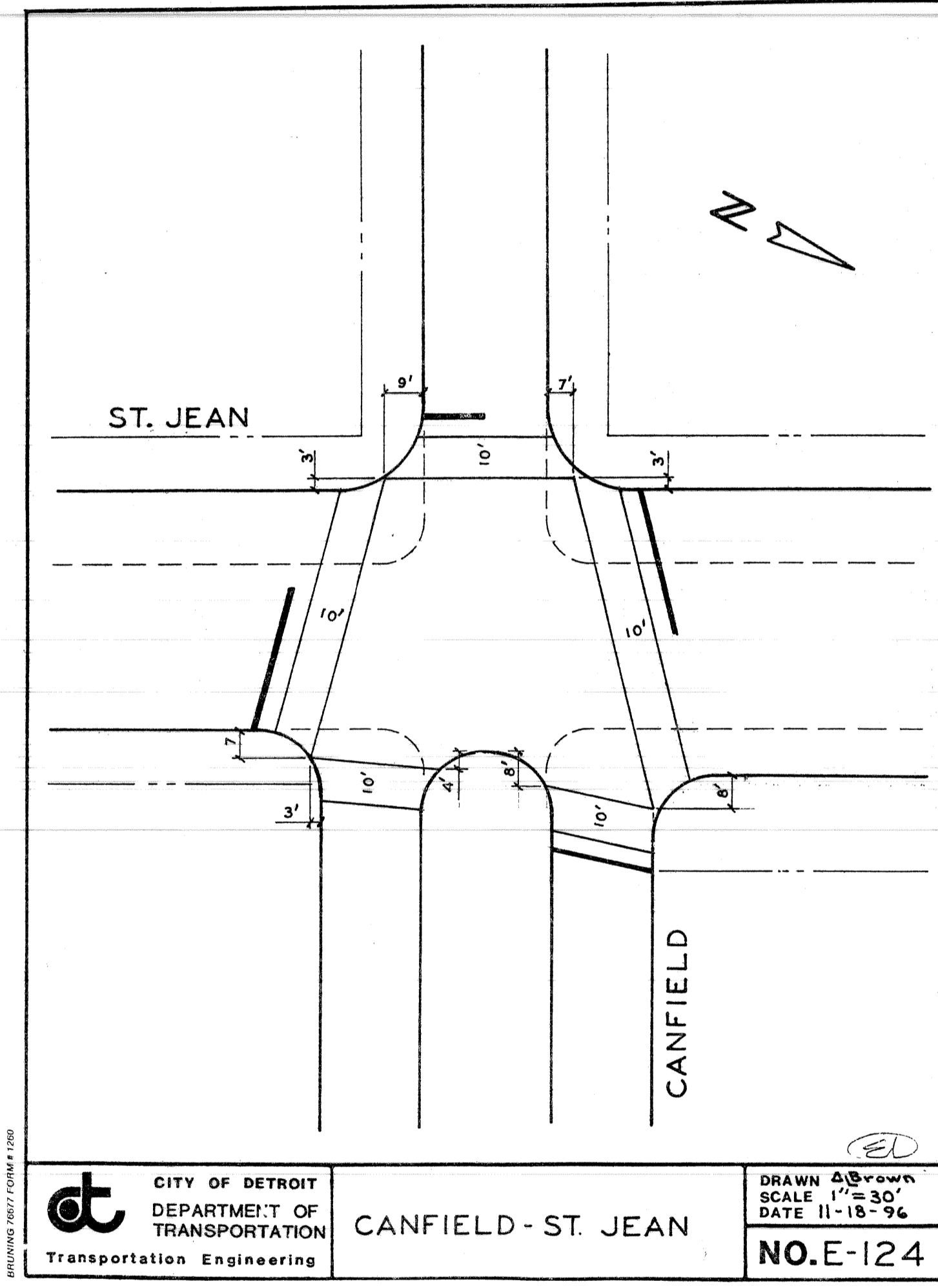
SHEET 10 OF 51 SHEETS
CONTRACT NO.
ASSIGNMENT NO. 96-22-20
DATE JAN. 1997



dt CITY OF DETROIT
DEPARTMENT OF
TRANSPORTATION
Transportation Engineering

MACK - ST JEAN

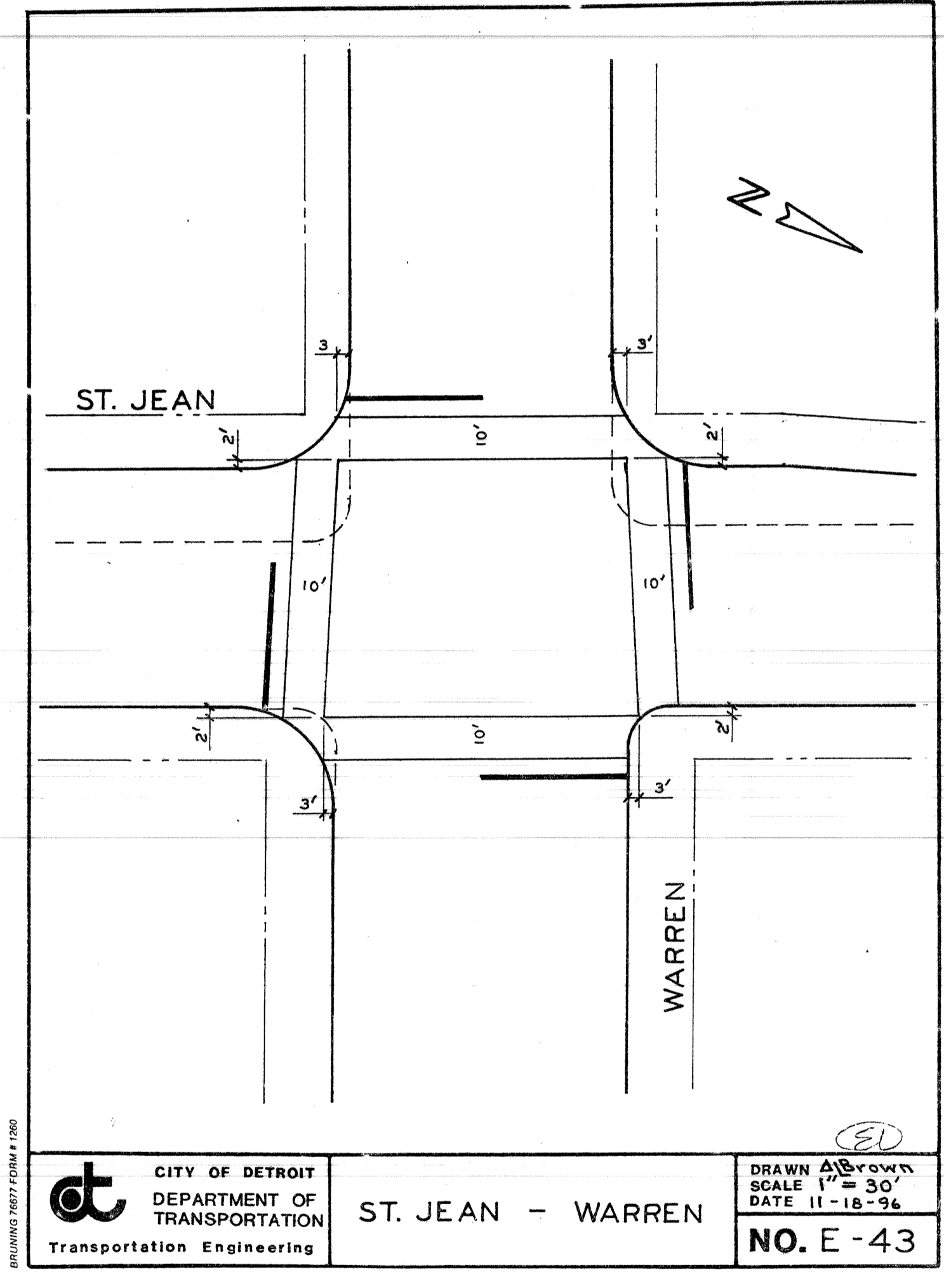
DRAWN *AS Brown*
SCALE 1" = 30'
DATE 11-26-96
NO. E-107



dt CITY OF DETROIT
DEPARTMENT OF
TRANSPORTATION
Transportation Engineering

CANFIELD - ST. JEAN

DRAWN *AS Brown*
SCALE 1" = 30'
DATE 11-18-96
NO. E-124



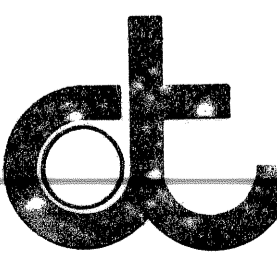
dt CITY OF DETROIT
DEPARTMENT OF
TRANSPORTATION
Transportation Engineering

ST. JEAN - WARREN

DRAWN *AS Brown*
SCALE 1" = 30'
DATE 11-18-96
NO. E-43

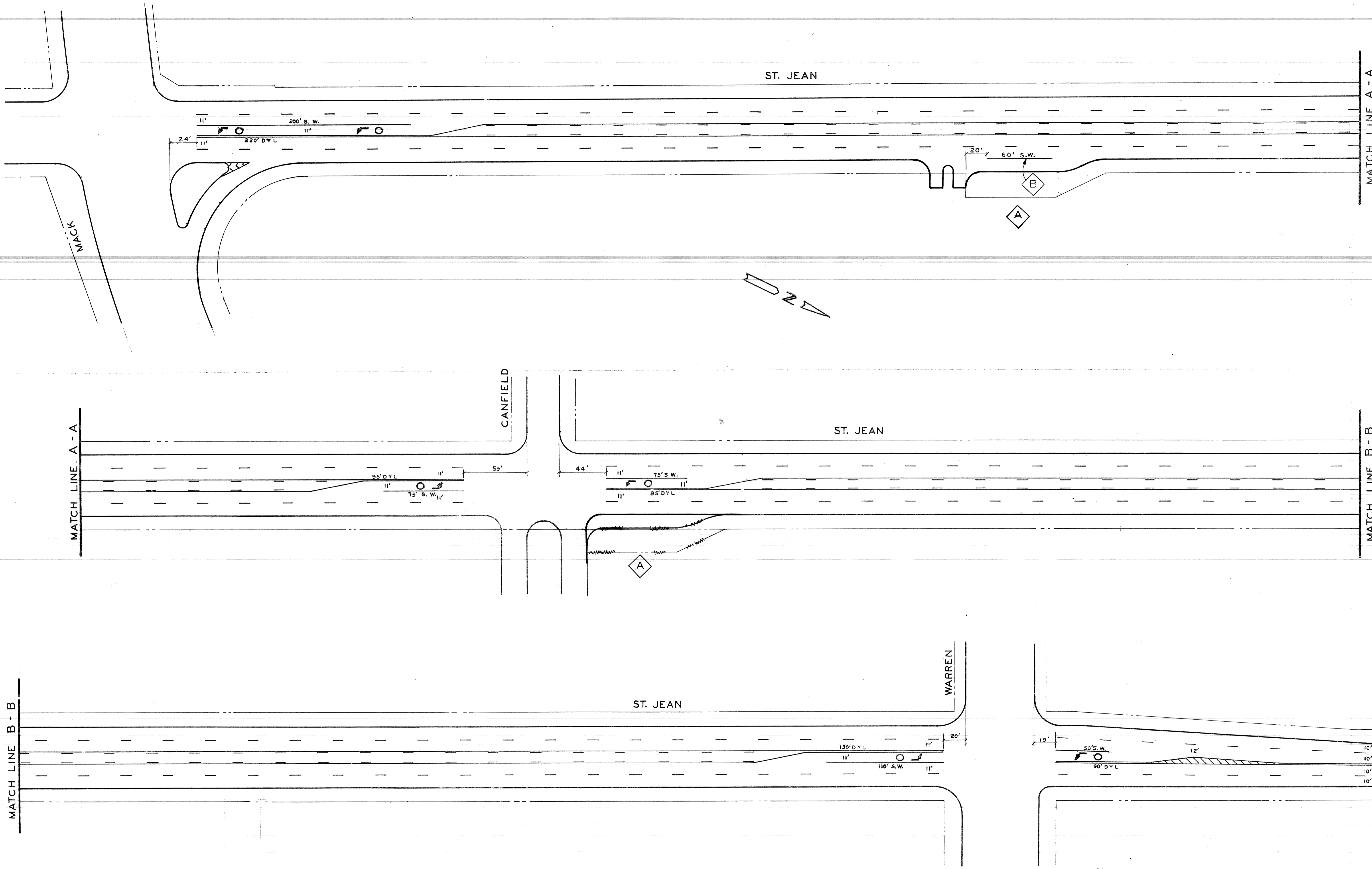
NO.	DATE	DESCRIPTION

DESIGNED BY		APPROVED:	
DRAWN BY			
TRACED BY			
CHECKED BY			

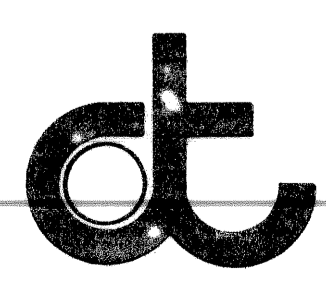

CITY OF DETROIT
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENGINEERING

RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN
PAVEMENT MARKINGS

SHEET 11 OF 51 SHEETS
ASSIGNMENT NO. 96-22-20
DRWG NO.
DATE JAN., 1997



RELOCATED BUS BAY	KMN/WJ/1/6/97	REFERENCE DRAWINGS	DESIGNED BY	E. L.	APPROVED:
ADDED 60' PAVEMENT MARKING	NW/1/1/97		DRAWN BY	AB	
			TRACED BY		
			CHECKED BY		
DESCRIPTION	REV	DATE			
REVISIONS LOCATED BY COORDINATES ON SHEET					

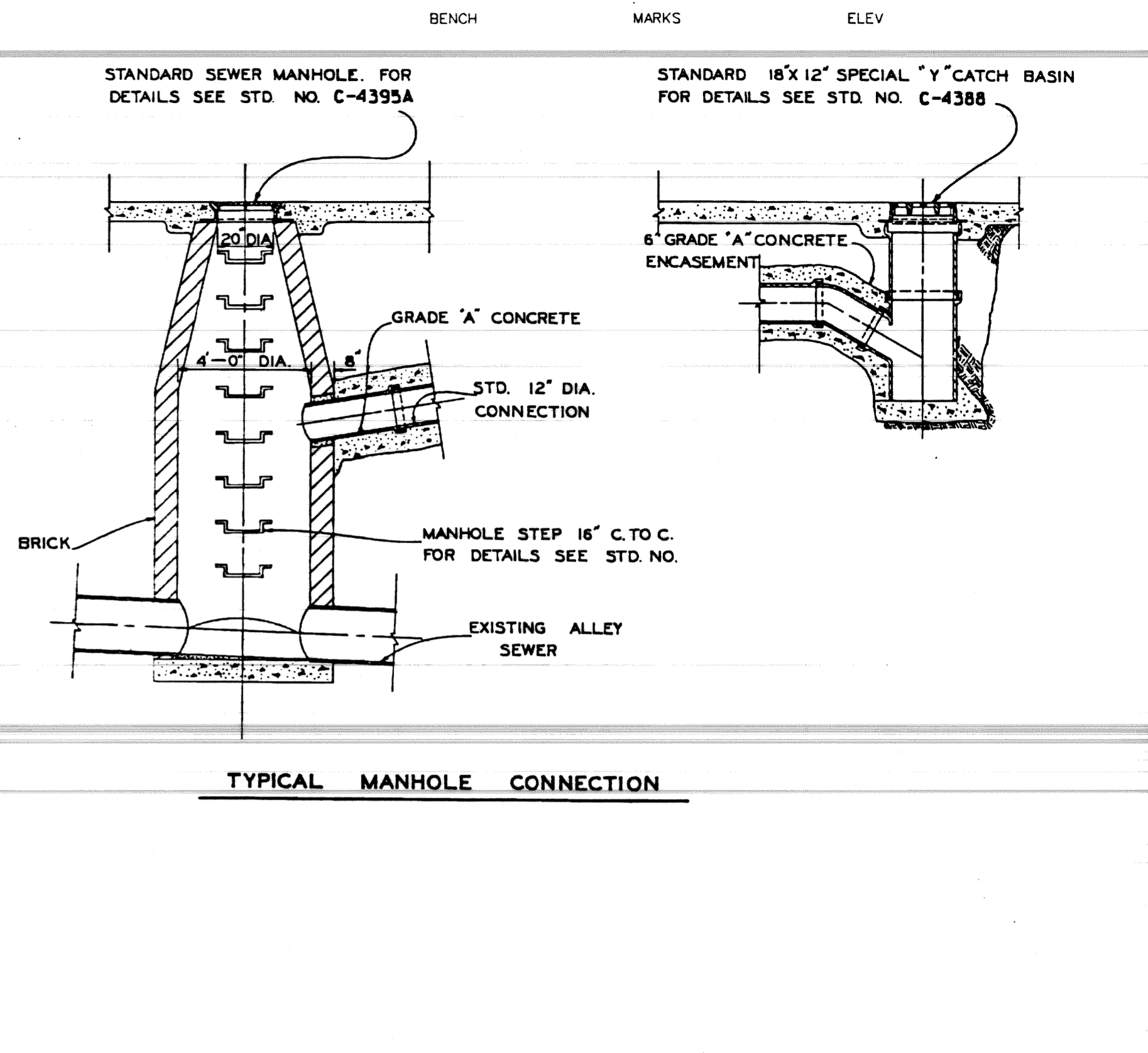
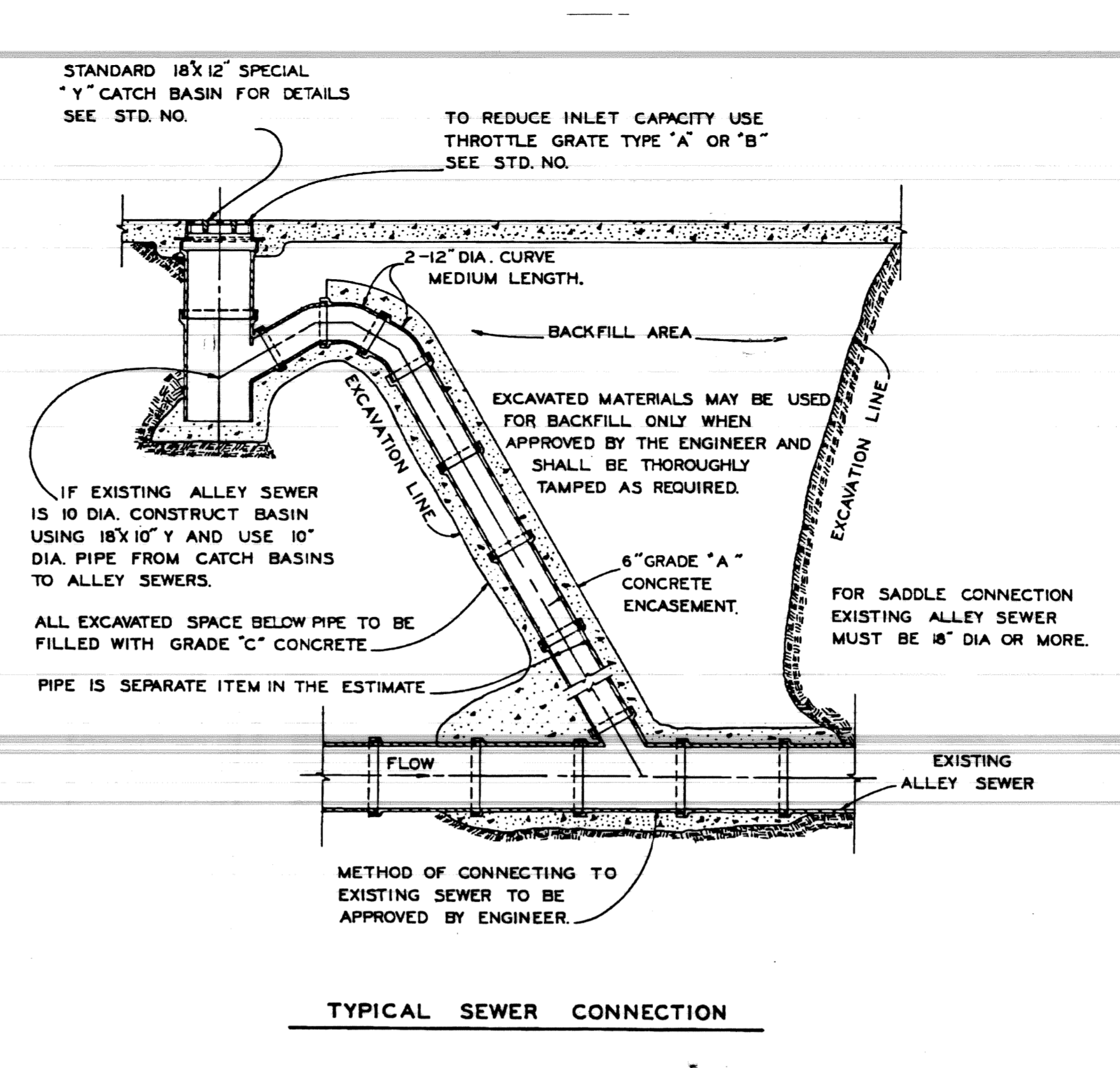
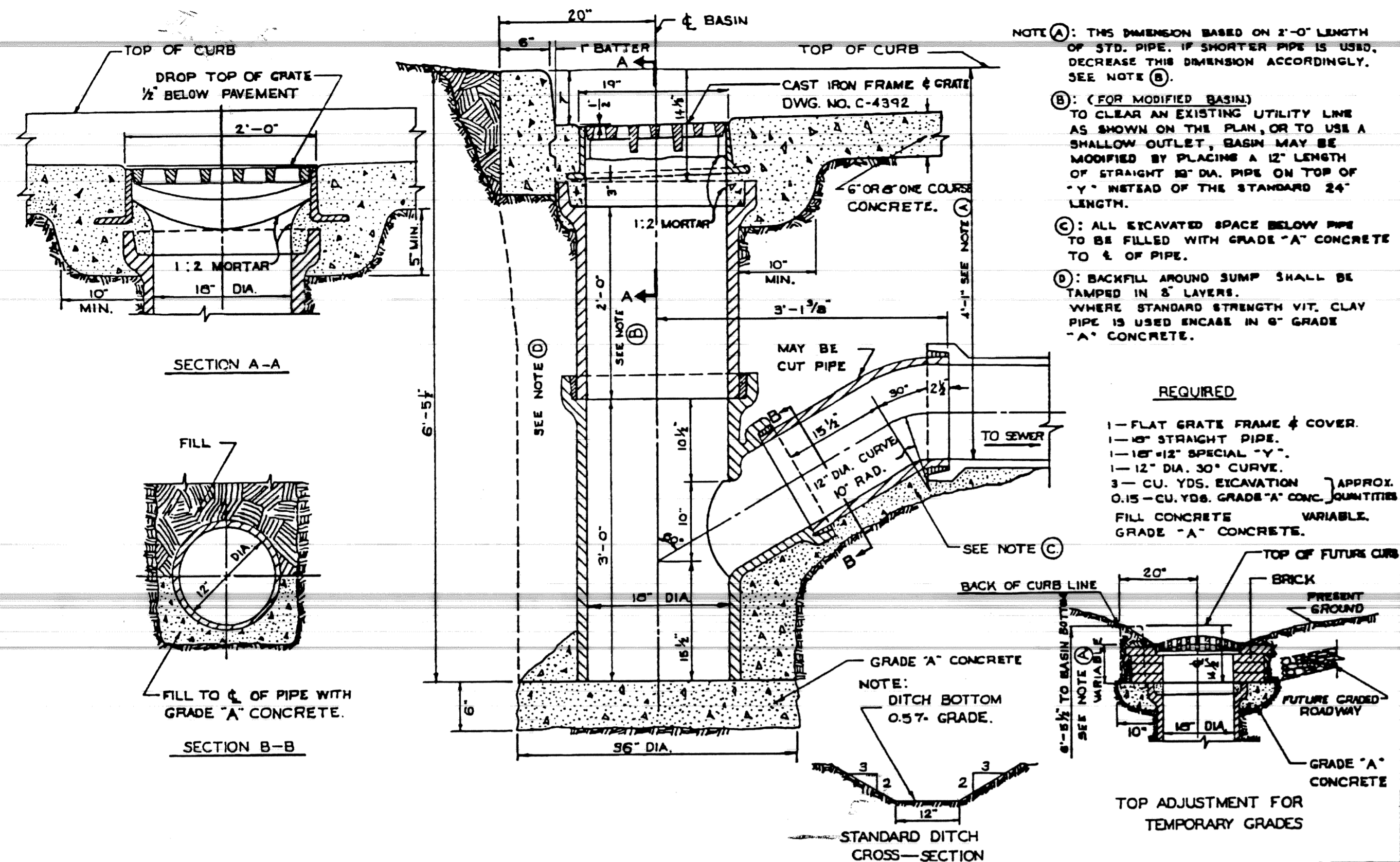


CITY OF DETROIT
 DEPARTMENT OF TRANSPORTATION
 TRANSPORTATION ENGINEERING

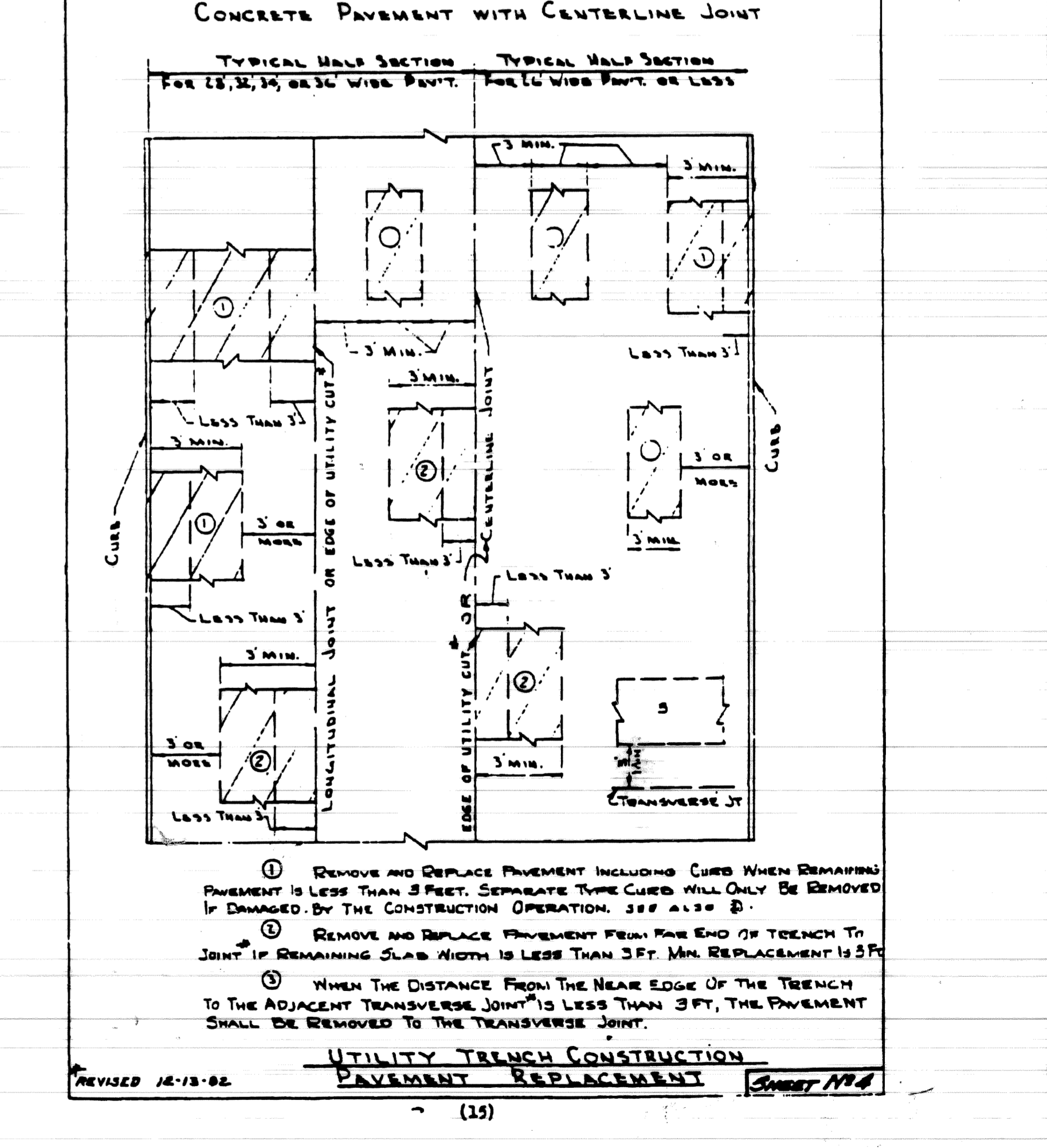
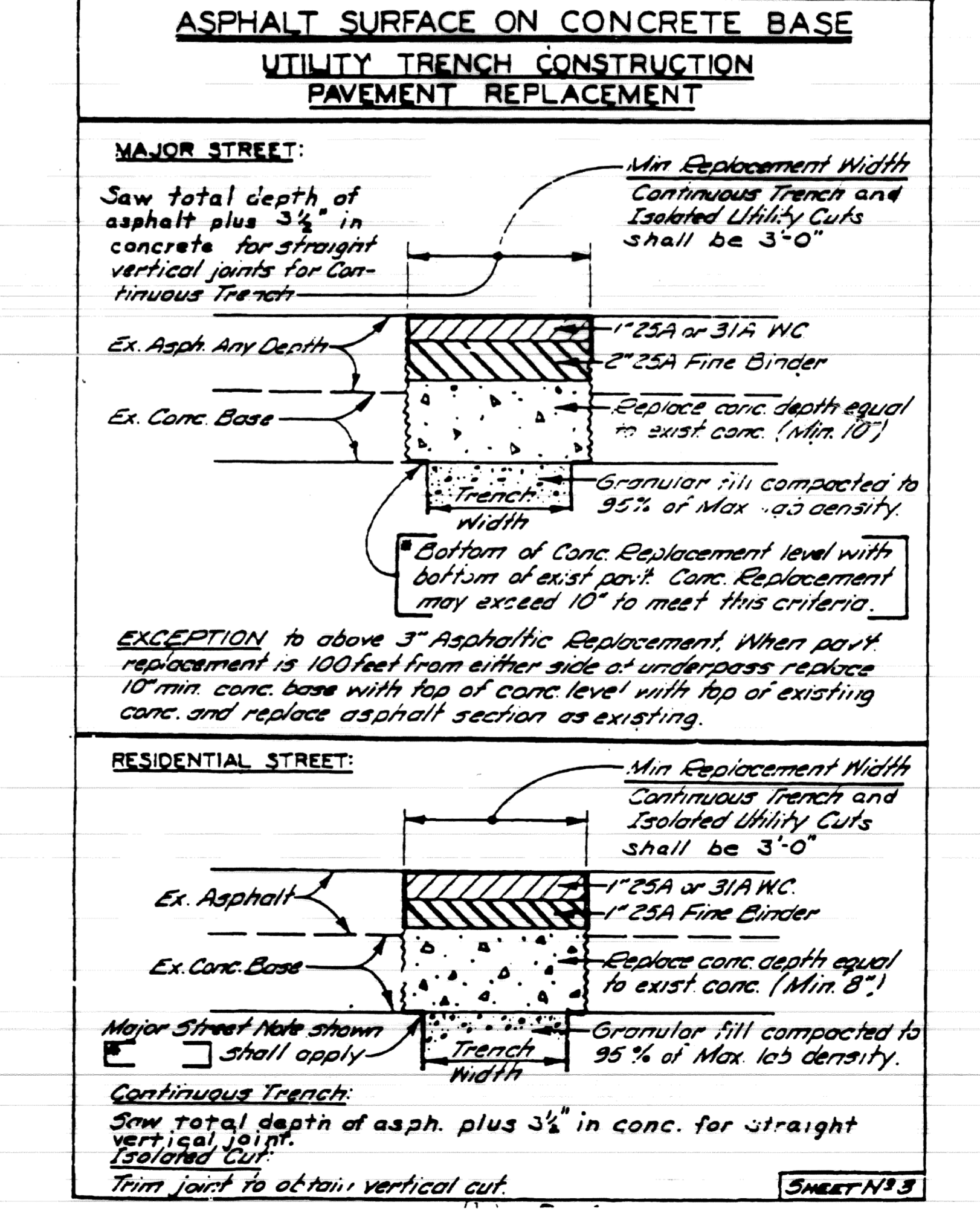
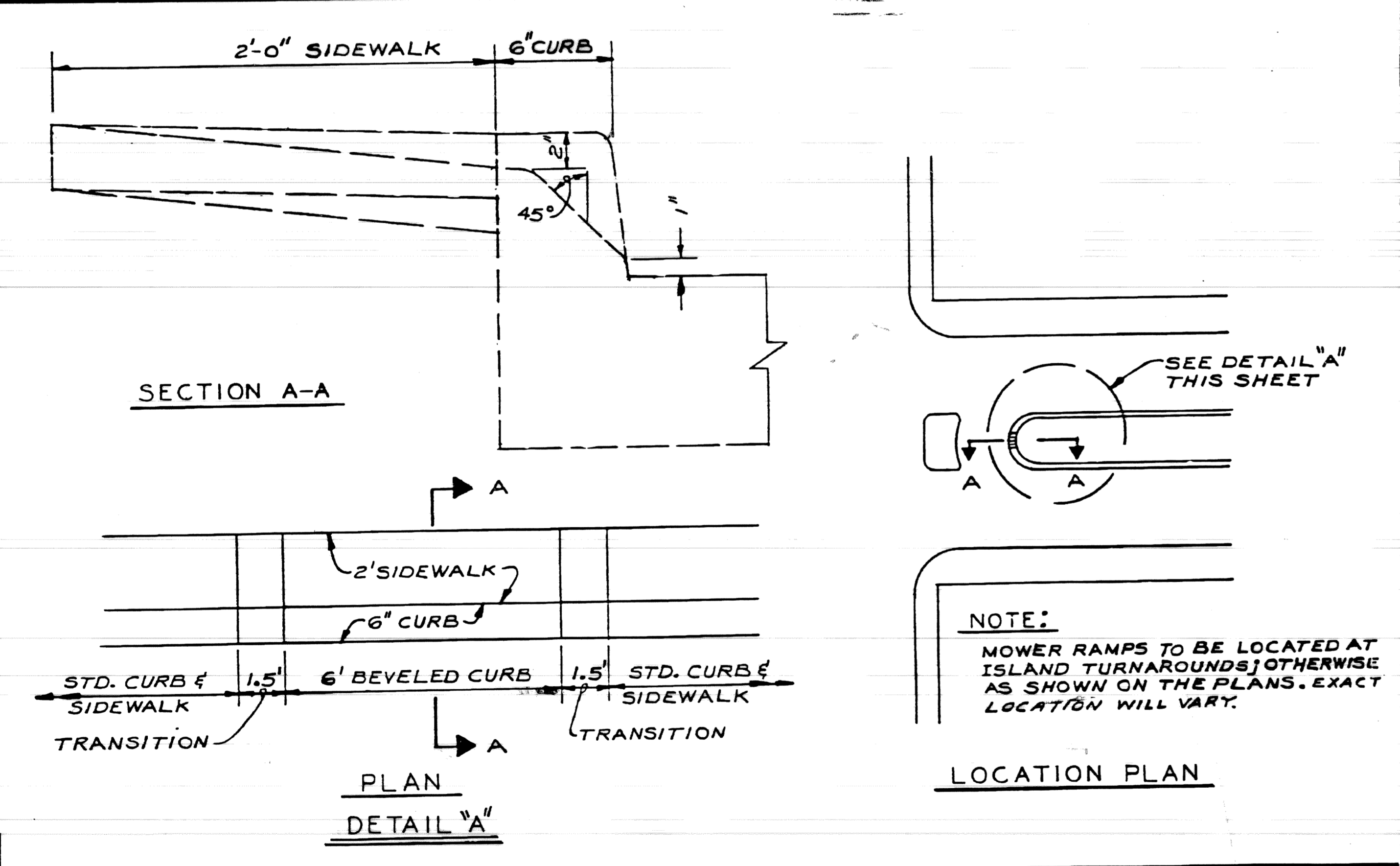
RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN

PAVEMENT MARKINGS

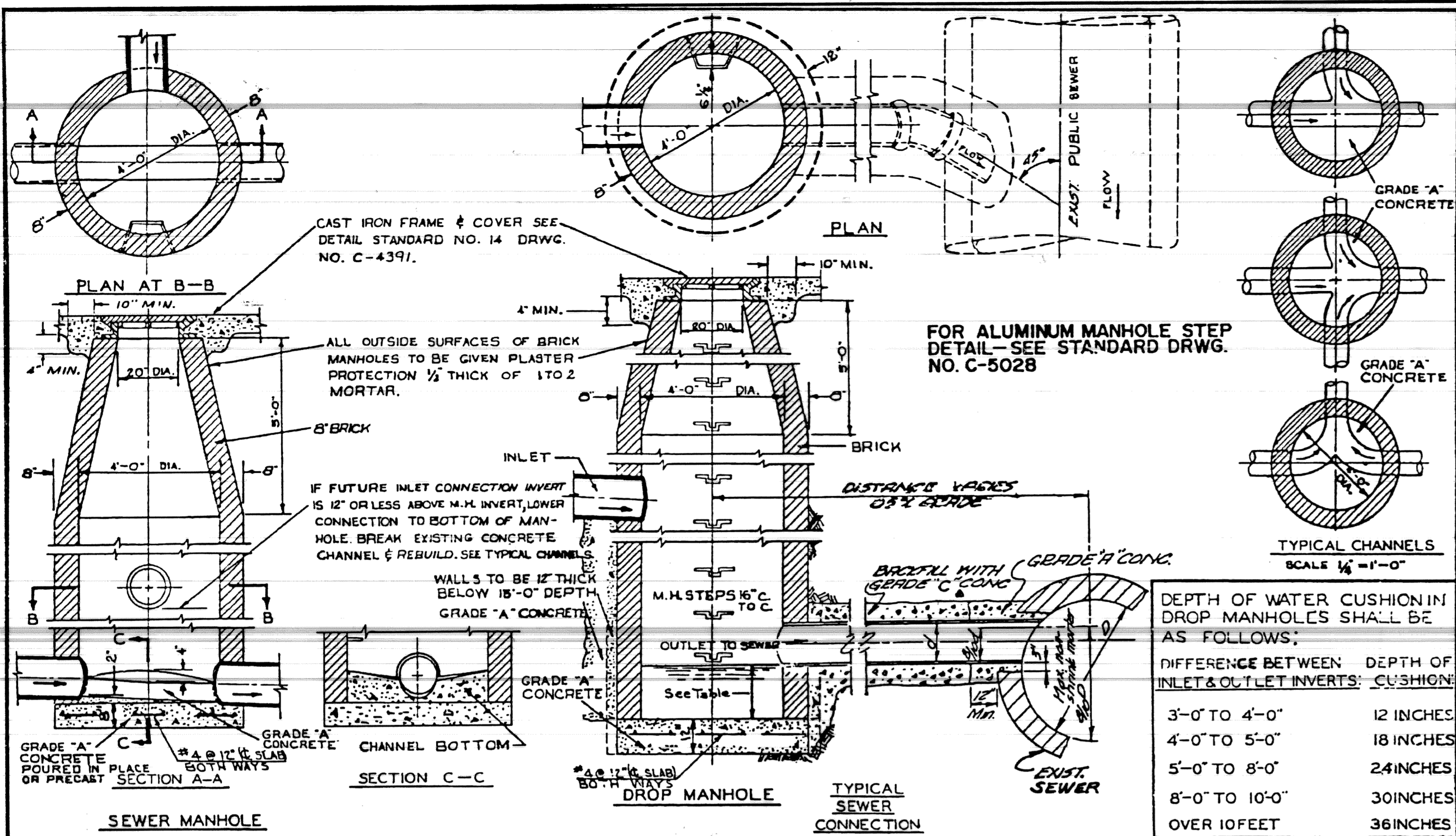
SHEET 12 OF 51 SHEETS
ASSIGNMENT NO. 96-22-20
DRWG NO. L-93
JAN., 1997



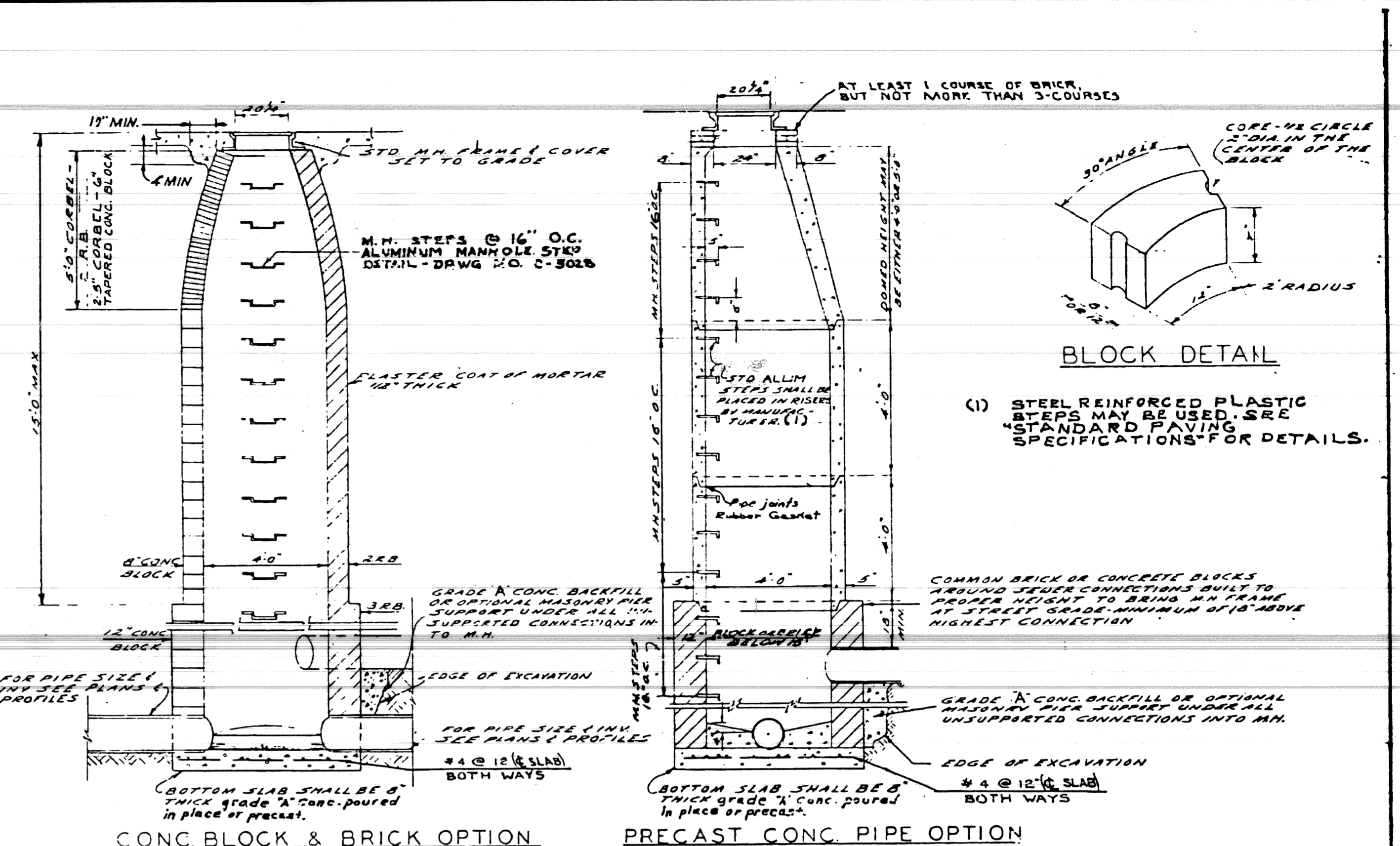
DESIGNED BY	APPROVED	CITY OF DETROIT	STANDARD DESIGN	ENGINEER	APPROVED	CITY OF DETROIT	ALLEY INSTALLATION	SCALE	DATE
DRAWN BY	ENGINEER OF STREETS	CITY ENGINEERING DEPARTMENT	18" X 12" SPECIAL "Y" CATCH BASIN	H. DUNN	ENGINEER OF STREETS	CITY ENGINEERING DEPARTMENT	STANDARD 18" X 12" SPECIAL "Y" CATCH BASIN		
TRACED BY	ASST. CITY ENGINEER	BUREAU OF STREETS AND HIGHWAYS	TO BE USED UNLESS DIRECTED OTHERWISE BY FIELD ENGINEER		DEPUTY DIRECTOR	BUREAU OF STREETS AND HIGHWAYS			
CHECKED BY	CITY ENGINEER	DETAIL: STANDARD NO. 11			DIRECTOR				
REVISIONS									



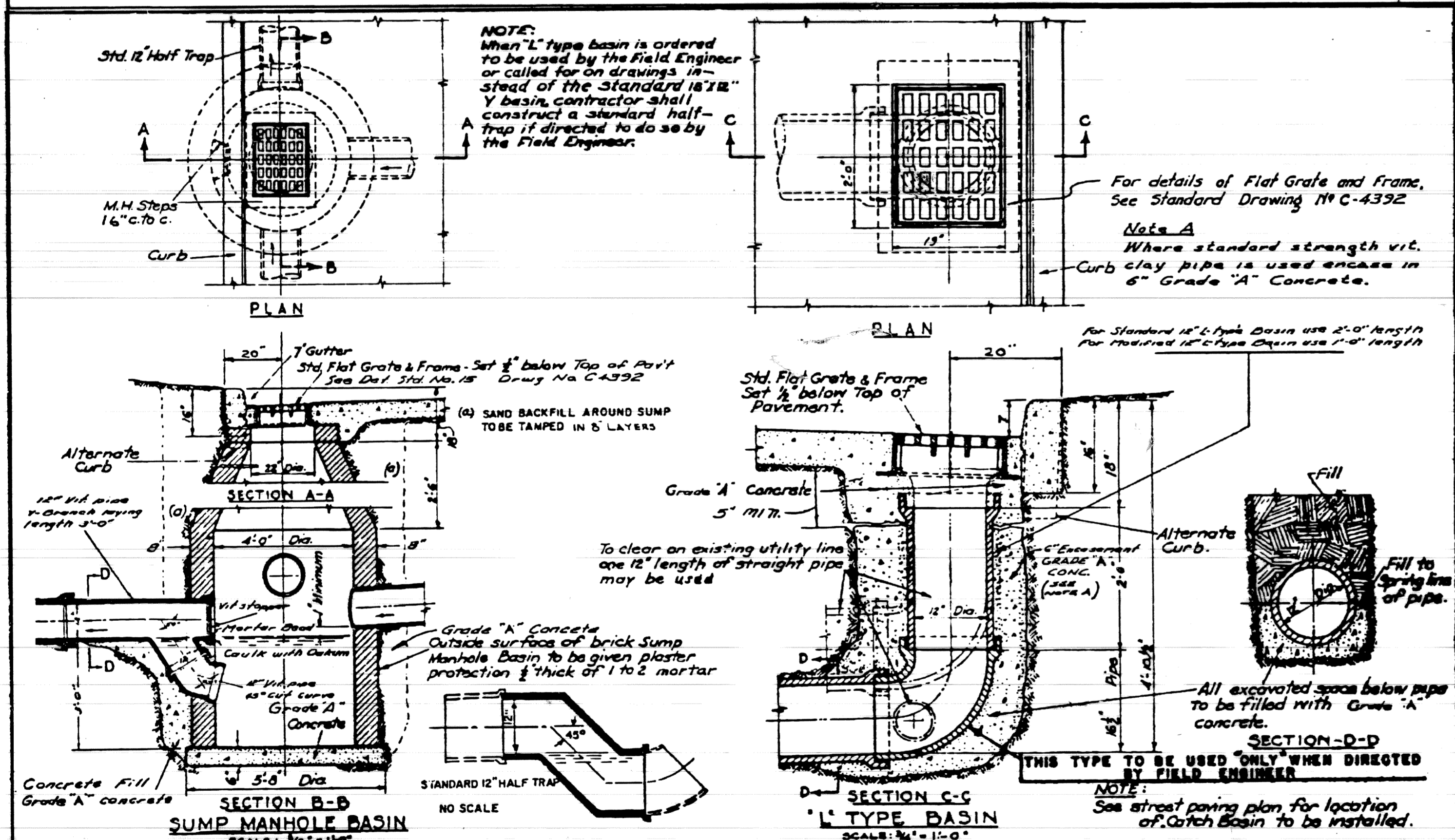
DESIGNED BY	APPROVED	CITY OF DETROIT	SPECIAL MOWER RAMP	ENGINEER	APPROVED	CITY OF DETROIT		SCALE	DATE
DRAWN BY JONES	ENGINEER OF STREETS	CITY ENGINEERING DEPARTMENT		W. J. BUDLEY	ENGINEER OF STREETS	CITY ENGINEERING DEPARTMENT		NONE	
TRACED BY	ASST. CITY ENGINEER	BUREAU OF STREETS AND HIGHWAYS		H. L. BUDLEY	DEPUTY DIRECTOR	BUREAU OF STREETS AND HIGHWAYS			
CHECKED BY TALLEY	CITY ENGINEER	DETAIL NO. 35			DIRECTOR				
REVISIONS									



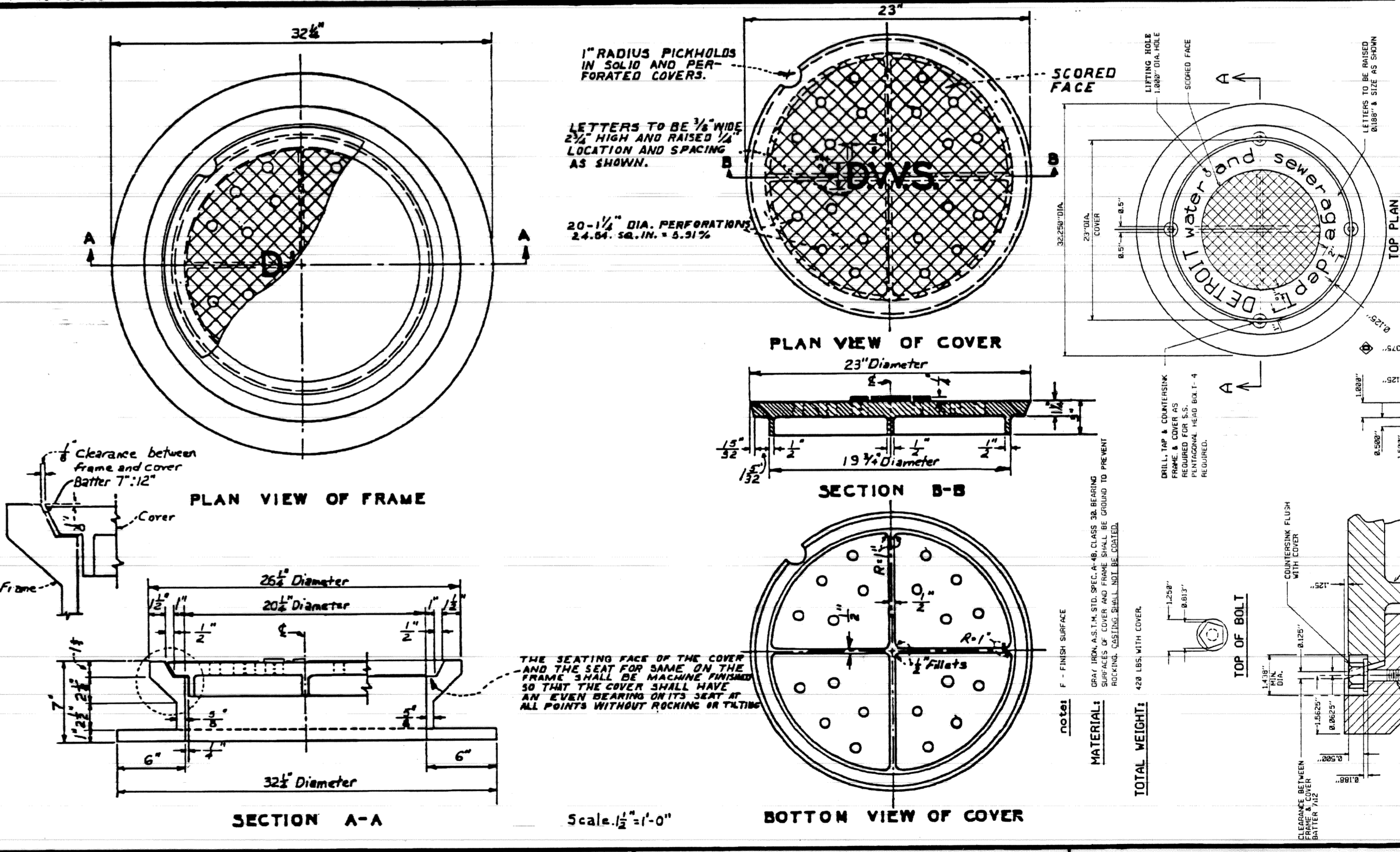
DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10	
BOOK NO.		SCALE		DATE	
1990		3/8" = 1'-0"		8-27-66	
DWG. NO. C-4387		1990			



DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10	
BOOK NO.		SCALE		DATE	
1990		AS SHOWN		OCTOBER 14, 1966	
DWG. NO. C-4399A		1990			



DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10	
BOOK NO.		SCALE		DATE	
1990		AS SHOWN		OCTOBER 14, 1966	
DWG. NO. C-4399		1990			



DESIGNED BY		APPROVED BY		CITY OF DETROIT	
DRAWN BY		ENGINEER OF STREETS		CITY ENGINEERING DEPARTMENT	
TRACED BY		ASST. CITY ENGINEER		BUREAUS OF STREETS AND HIGHWAYS	
CHECKED BY		CITY ENGINEER		DETAIL STANDARD NO. 10	
BOOK NO.		SCALE		DATE	
1990		AS SHOWN		OCTOBER 14, 1966	
DWG. NO. C-4399		1990			

CITY OF DETROIT		CITY ENGINEERING DEPARTMENT		BUREAUS OF STREETS AND HIGHWAYS	
RECONSTRUCTION OF ST. JEAN FROM MACK TO N. OF WARREN		SPECIAL DETAILS		SHEET 15 OF 51 SHEETS	
CONTRACT NO.		ASSIGNMENT NO. 96-22-20		DATE JAN. 1997	
DESCRIPTION		REVISIONS		FINAL	

city of detroit
water & sewerage department
engineering division

NO SCALE

2/89

3/95

AI20-234

QUANTITY SHEET

A S P E R P L A N S

I T E M S

ITEMS	PLANS										
	SHEET NO'S.	2	4	5	6	7	8	10	11-12		
TOTALS	UNITS	TYPICAL CROSS SECTIONS	CONSTRUCTION SEQUENCE	REMOVALS	STA 10 + 56 TO STA 21 + 00	STA 21 + 00 TO STA 33 + 50	STA 33 + 50 TO STA 42 + 26.0	UTILITIES	PAVEMENT MARKINGS		
REMOVING TREE, 8-18"	15	EACH		15							
REMOVING TREE, 19-36"	1	EACH		1							
REMOVING PAVEMENT	17,000	SYD		17,000							
REMOVING SIDEWALK	4,900	SYD		4,900							
REMOVING CURB	436	LFT		436							
REMOVING INTEGRAL CURB & WALK, 2 FT. WIDE	190	LFT		190							
REMOVING INTEGRAL CURB & WALK, 9 FT. WIDE	40	LFT		40							
MOVING FENCE	140	LFT				140					
MOVING BEAM GUARD RAIL	140	LFT				140					
REMOVING MASONRY AND CONCRETE STRUCTURES	150	CYD	150								
REMOVING TRACK ENCASEMENT	4,500	CYD		4,500							
BASEMENT CLEANOUT	2,600	CYD	2,600								
ABANDONING DRAINAGE STRUCTURE	16	EACH		16							
REMOVING DRAINAGE STRUCTURE	1	EACH	1								
EARTH EXCAVATION	5,370	CYD			1,580	2,500	1,290				
SUBGRADE UNDERCUTTING TYPE II	1,500	CYD	1,500								
EMBANKMENT (CIP) GRANULAR MATERIAL CLASS II	3,210	CYD			1,030	1,130	1,050				
AGGREGATE BASE UNDER CONCRETE (4" IN PLACE)	23,840	CYD			7,495	8,385	7,760				
REMOVING BITUMINOUS SURFACE	400	SYD				67	333				
BITUMINOUS MIXTURE - 3C	260	TON					260				
BITUMINOUS MIXTURE - 4C	245	TON					245				
COLD-MILLING BITUMINOUS SURFACE	1,250	SYD		1,250							
BITUMINOUS APPROACH	66	TON				10	56				
CONCRETE PAVEMENT - NONREINFORCED 8"	1,405	SYD					1,405				
CONCRETE PAVEMENT W/INTEGRAL CURB - REINFORCED 9"	21,130	SYD			7,260	8,120	5,750				
CONCRETE BASE PAVEMENT W/INTEGRAL CURB-REINFORCED 9"	1,820	SYD					1,820				
CEMENT	6	TON	6								
REMOVING PAVEMENT (REPAIR)	50	SYD	50								
CONCRETE PAVEMENT REPAIR - NONREINFORCED 10"	50	SYD	50								
CLASS C76-III SEWER, 12", TRENCH DETAIL B	1,030	LFT			92	646	292				
CLASS C76-IV SEWER, 12", TRENCH DETAIL B	1,403	LFT			444	302	657				
CLASS C76-IV SEWER, 15", TRENCH DETAIL B	742	LFT			350	392					
CLASS C76-IV SEWER, 18", TRENCH DETAIL B	593	LFT			200	393					
HAND PATCHING	10	TON		10							
SEWER TAP, 12"	5	EACH					5				
SEWER TAP, 18"	2	EACH			2						
MISC. SEWER CLEANOUT-NON-PARTICIPATING	100	LFT		100							
MISC. CLEANING DRAINAGE STRUCTURE-NON-PARTICIPATING	6	EACH		6							
ADJUSTING WATER SHUTOFF	18	EACH						18			
ADJUSTING DRAINAGE STRUCTURE COVER, CASE 1	21	EACH						4	17		
ADJUSTING DRAINAGE STRUCTURE COVER, CASE 2	1	EACH	1								
MISC. RECONSTRUCTING DRAINAGE STRUCTURE, CASE 1	1	EACH	1								
SEWER TRAP, 12"	25	EACH			7	11	7				
MISC. CATCH BASIN "A"	13	EACH			4	5	4				
MISC. CATCH BASIN "B"	28	EACH			8	12	8				
MISC. MANHOLE - STANDARD	12	EACH			5	6	1				
MISC. MANHOLE - DROP	2	EACH				1	1				
MISC. STRUCTURE COVER	700	LBS	700								
MISC. CONCRETE CURB, DETAIL "CD"	420	LFT				65	355				
CONCRETE SIDEWALK, 4"	13,380	SFT	500		2,180	3,660	7,540				
CONCRETE SIDEWALK, 6"	2,900	SFT			850	650	1,400				
MISC. SIDEWALK RAMPS-MODIFIED	600	SFT				200	400				
MINOR TRAFFIC DEVICES	1	LSUM	1								
FLAG CONTROL	1	LSUM	1								
FIELD OFFICE	6	MOS	6								
MOBILIZATION	1	LSUM	1								
LIGHTED ARROW, TYPE A - FURNISHED	3	EACH		3							
LIGHTED ARROW, TYPE A - OPERATED	3	EACH		3							
BARRICADE, TYPE II, LIGHTED - FURNISHED	70	EACH		70							
BARRICADE, TYPE II, LIGHTED - OPERATED	47	EACH		47							
BARRICADE, TYPE III, LIGHTED - FURNISHED	26	EACH		26							
BARRICADE, TYPE III, LIGHTED - OPERATED	26	EACH		26							
SIGN, TYPE B TEMPORARY	765	SFT		765							
REMOVING HYDRANT-METHOD I	2	EACH						2			
REMOVING HYDRANT-METHOD II	1	EACH						1			
FIRE HYDRANT	2	EACH						2			
CLASS A SODDING	4,260	SYD			1,520	1,460	1,280				
CEREAL RYE SEEDING	45	LBS			16	17	12				
WATER	2	UNIT									
TOPSOIL SURFACE, 3"	510	CYD	50		190	185	135				
TEMPORARY PAVEMENT MARKING, TYPE R, 4", YELLOW	645	LFT		645							
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", WHITE	2,050	LFT							2,050		
OVERLAY COLD PLASTIC PAVEMENT MARKING, 4", YELLOW	7,420	LFT							7,420		
OVERLAY COLD PLASTIC PAVEMENT MARKING, 6", WHITE	72	LFT							72		
OVERLAY COLD PLASTIC PAVEMENT MARKING, 6", CROSSWALK	1,184	LFT							1,184		
OVERLAY COLD PLASTIC PAVEMENT MARKING, 18", STOPBAR	315	LFT							315		
OVERLAY COLD PLASTIC PAVEMENT MARKING, ONLY	4	EACH							4		
OVERLAY COLD PLASTIC PAVEMENT MARKING, LEFT TURN ARROW SYMBOL	4	EACH							4		
INLAY COLD PLASTIC PAVEMENT MARKING, 4", WHITE	200	LFT							200		
INLAY COLD PLASTIC PAVEMENT MARKING, 4", YELLOW	400	LFT							400		
INLAY COLD PLASTIC PAVEMENT MARKING, 6", YELLOW	115	LFT							115		
INLAY COLD PLASTIC PAVEMENT MARKING, 6", CROSSWALK	335	LFT							335		
INLAY COLD PLASTIC PAVEMENT MARKING, 18", STOPBAR	102	LFT							102		