

CITY OF DETROIT

CITY ENGINEERING DIVISION - EPMD

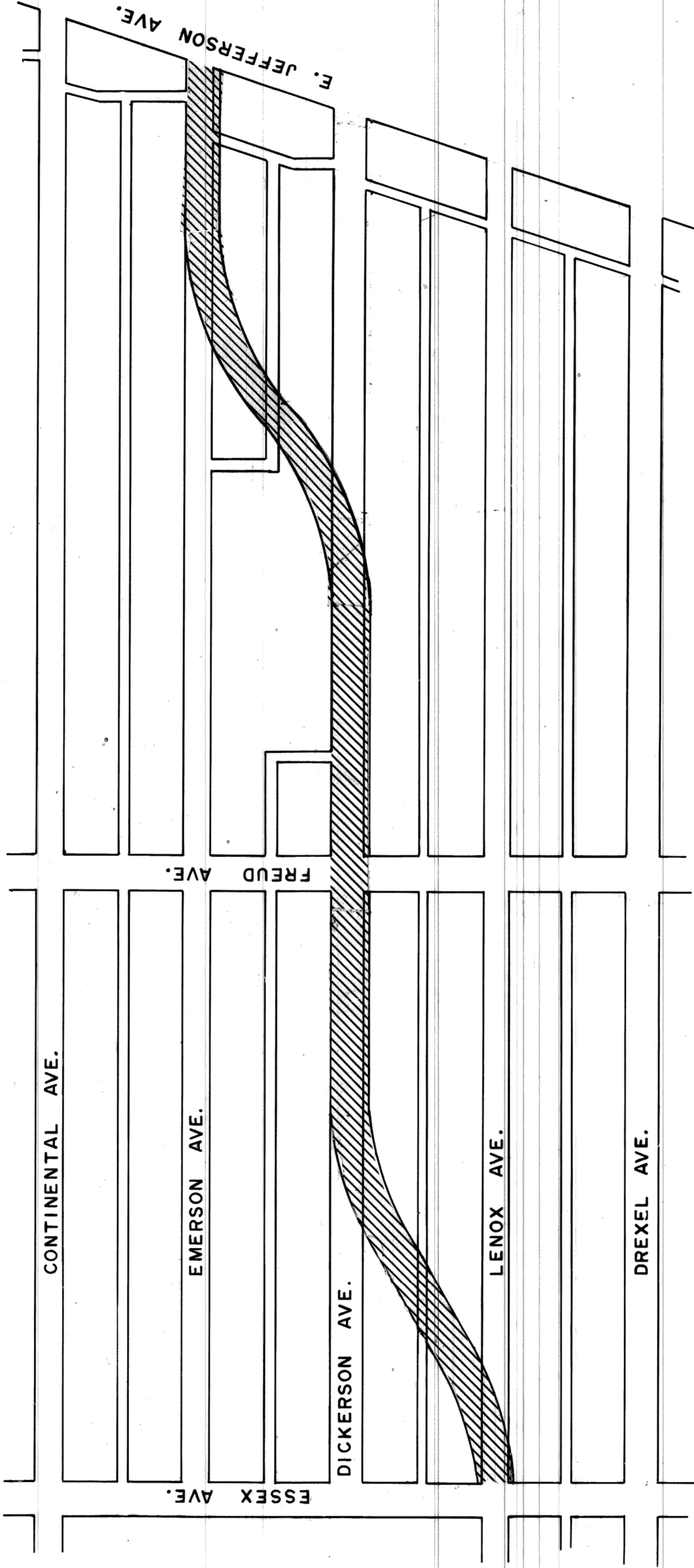
PLANS FOR PROPOSED

WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX  
AND MISCELLANEOUS CONSTRUCTION  
JEFFERSON CHALMERS REHABILITATION PROJECT

MICH. A-4-1

FOR

COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT



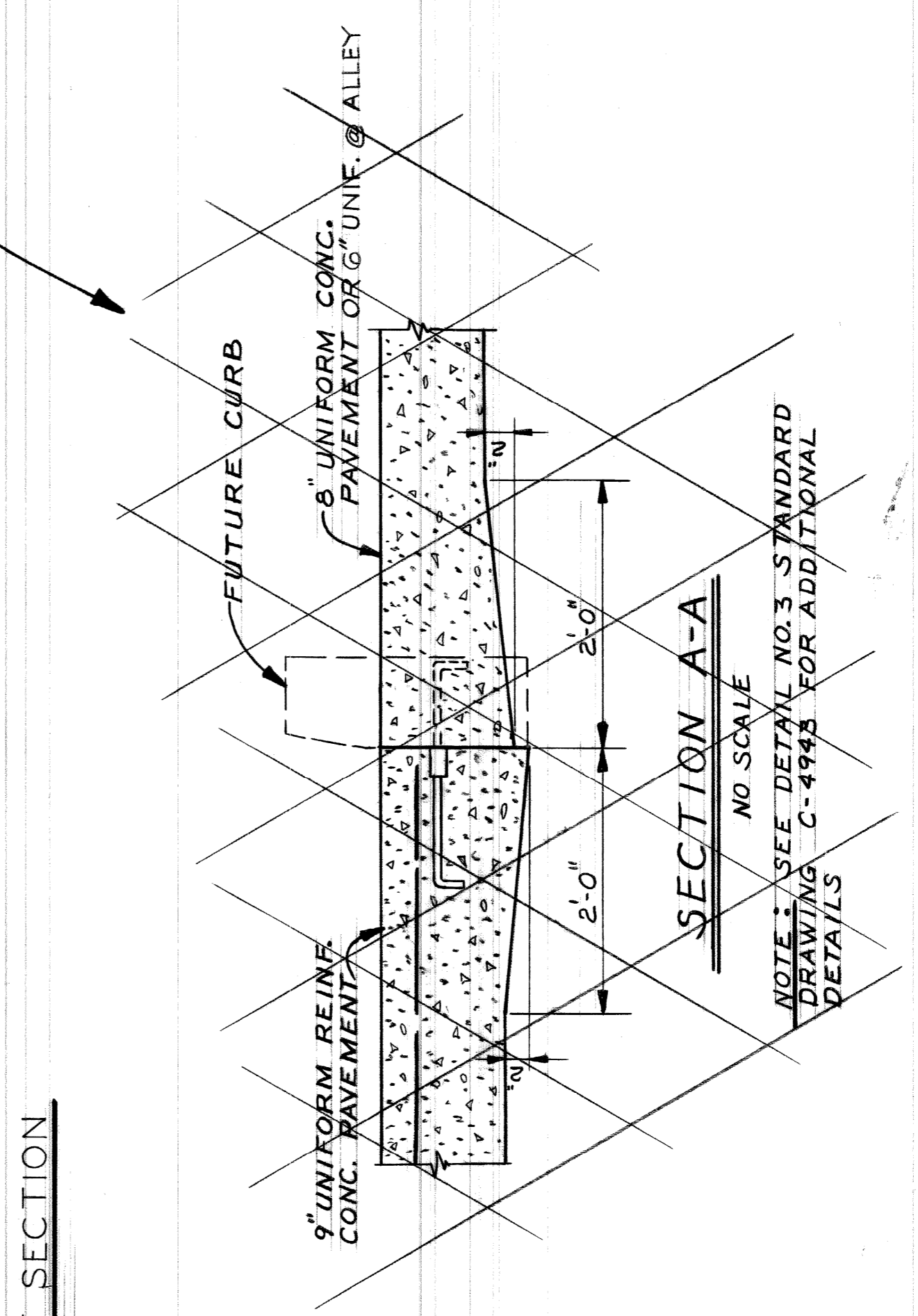
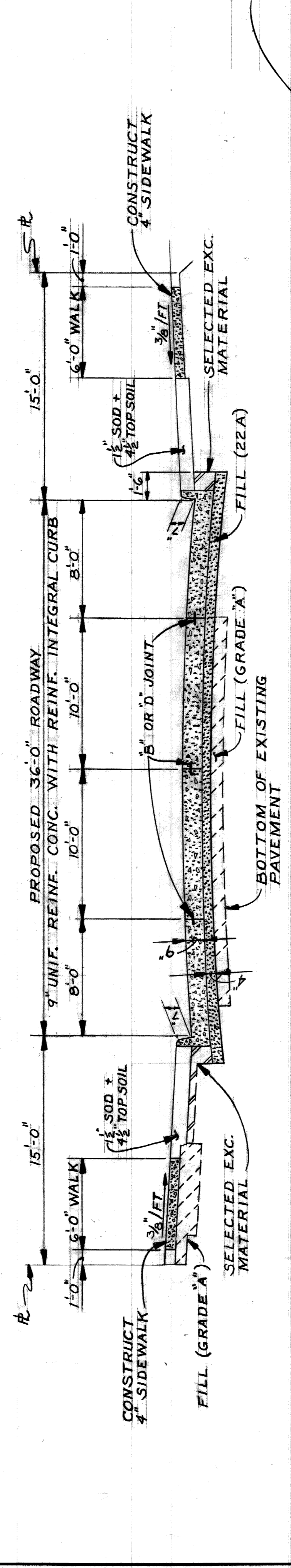
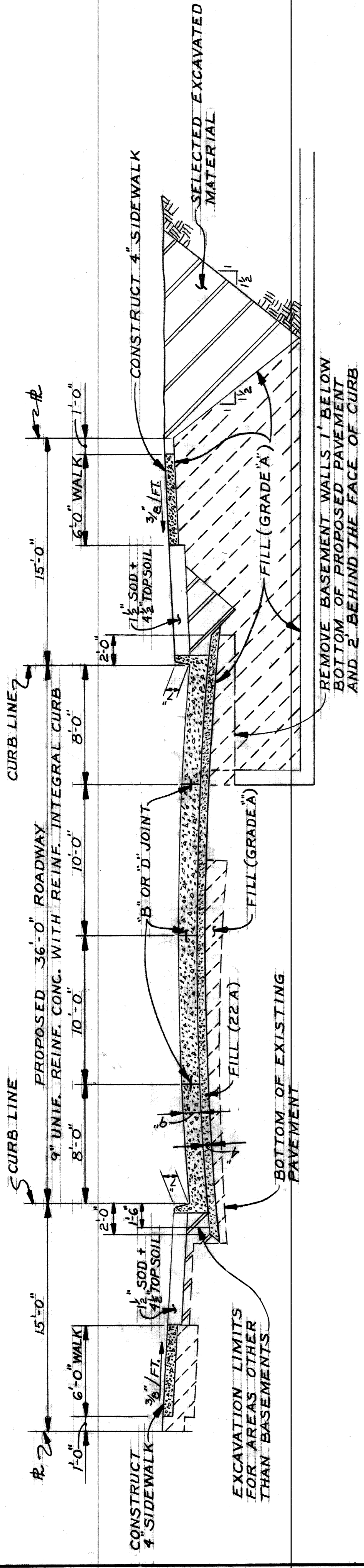
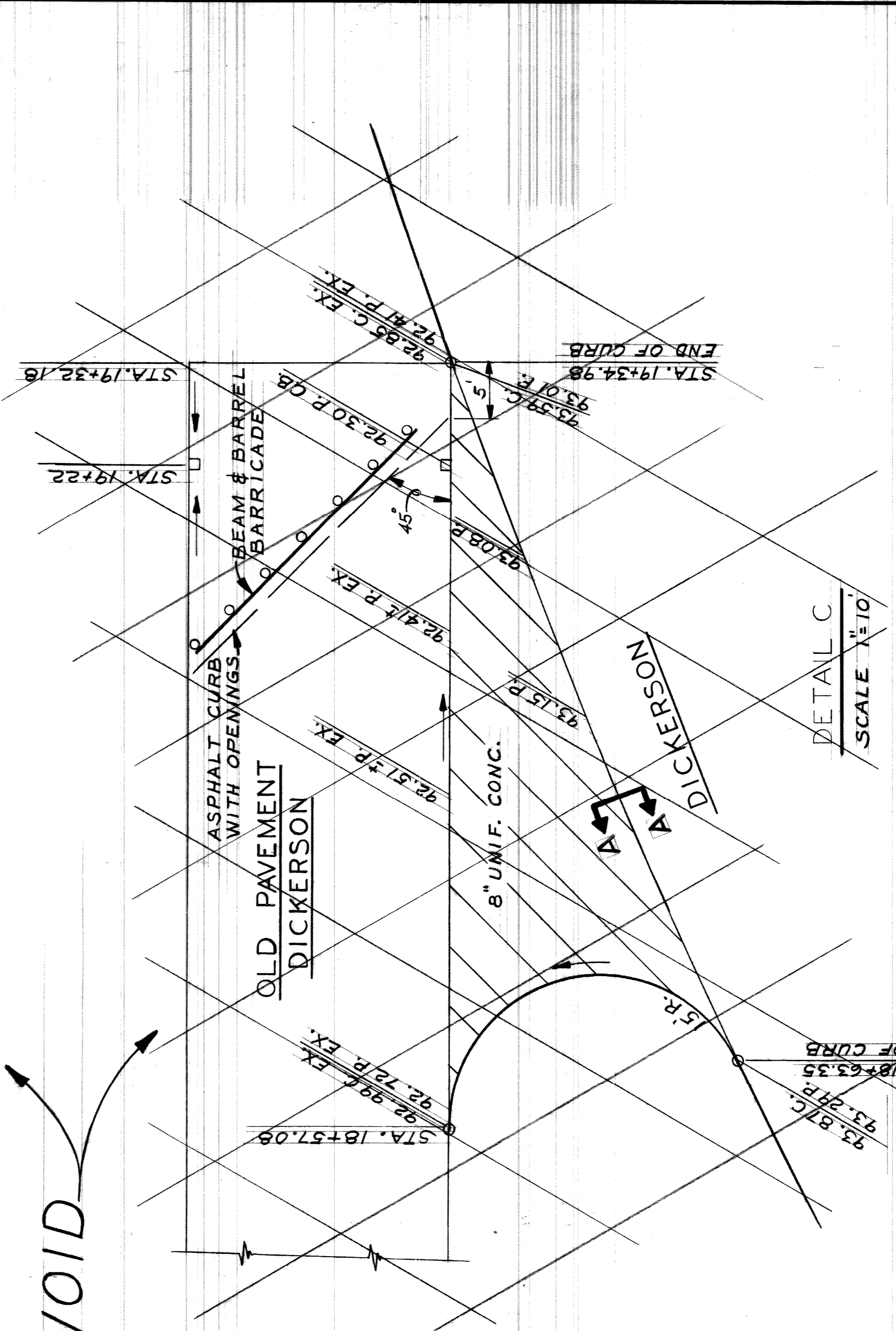
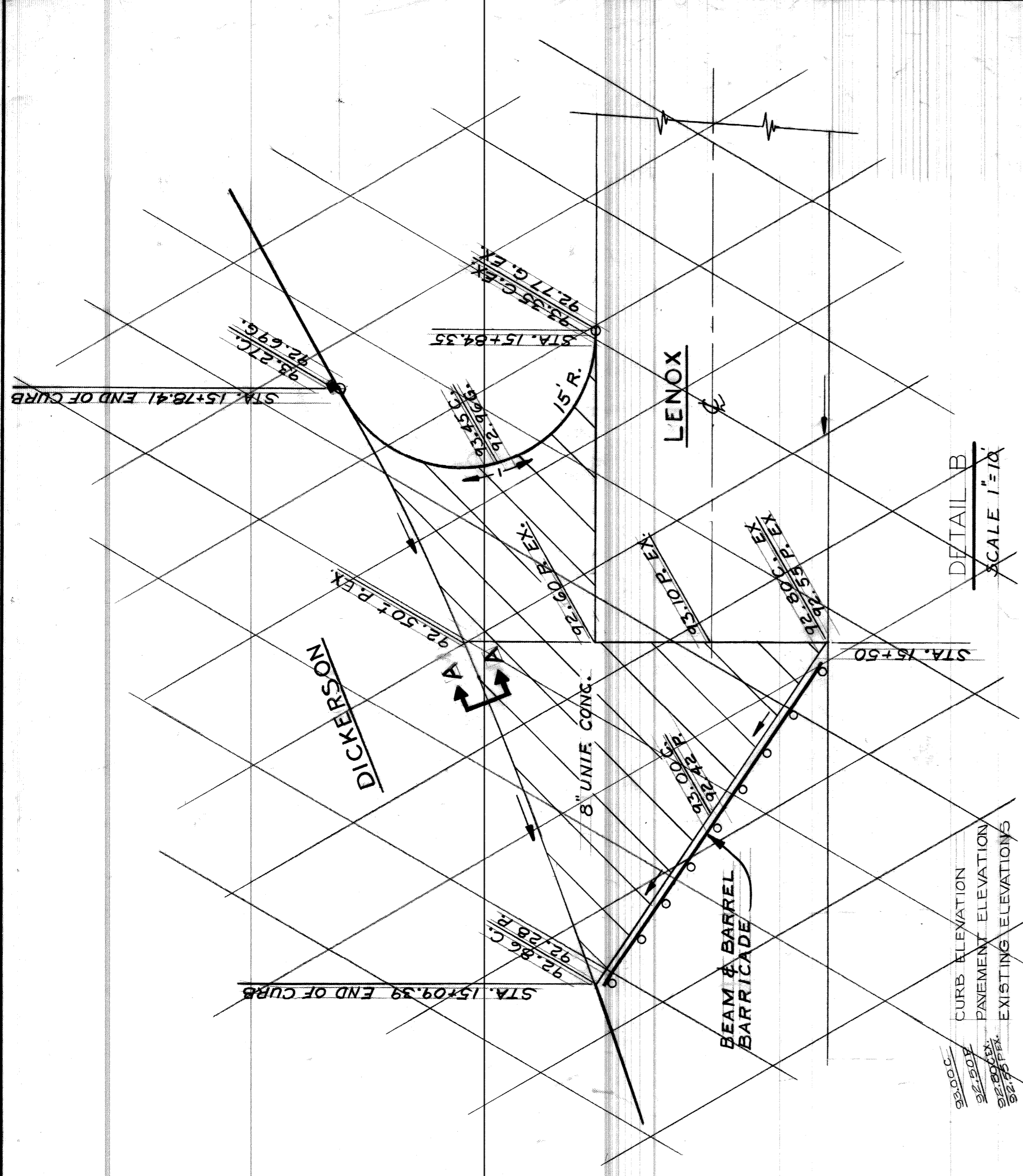
CONSTRUCTION AREA

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. TYPICAL SECTIONS
- 3. ALIGNMENT SHEET
- 4-5. UTILITY SHEETS
- 6-7. REMOVAL SHEETS
- 8-10. PAVING PLANS
- 11. DETAIL SHEET
- 12. QUANTITY SHEET - PAVING
- 13-19. WATER SYSTEM ALTERATIONS
- 20-21. SEWER ALTERATIONS
- 22. LANDSCAPE PLAN
- 23-53. PLD ALTERATIONS

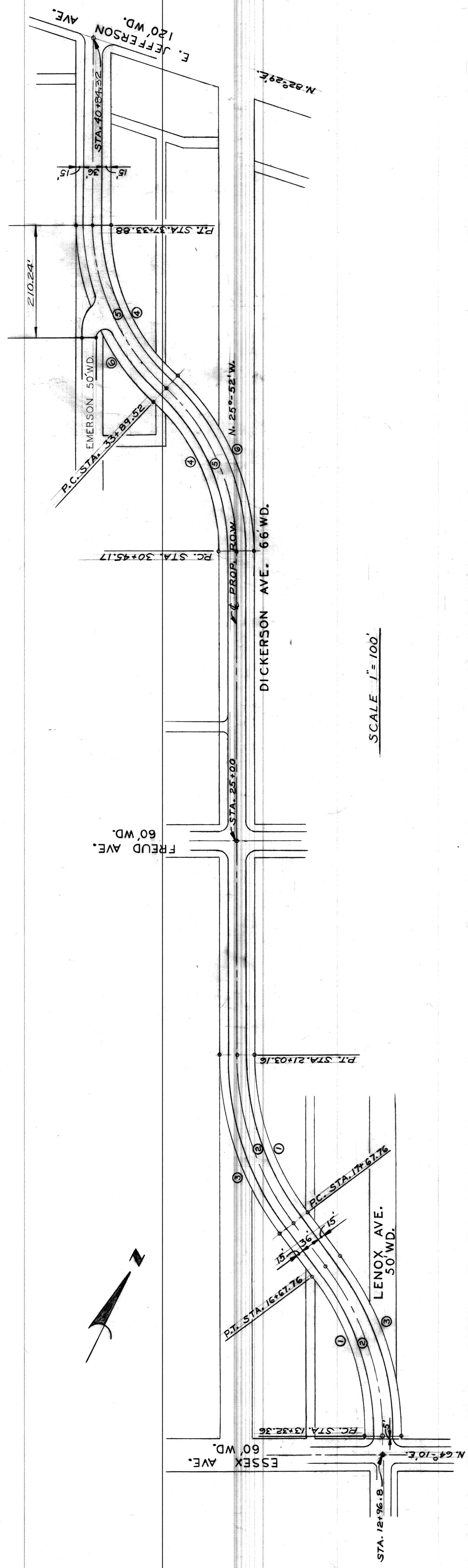
<b>PROJECT:</b> WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION JEFFERSON CHALMERS REHABILITATION PROJECT MICH. A-4-1		<b>CONTRACT NO.</b> PW-6600
PLANS PREPARED BY CITY ENGINEERING DIVISION - EPMD		
RECOMMENDED FOR APPROVAL ENGINEER OF INSPECTION <i>R. J. [Signature]</i>	12-11-78 DATE	
RECOMMENDED FOR APPROVAL ENGINEER OF STREETS <i>W. J. [Signature]</i>	12-11-78 DATE	
APPROVED ASSISTANT CITY ENGINEER <i>[Signature]</i>	12-11-78 DATE	
APPROVED CITY ENGINEER <i>[Signature]</i>	12-11-78 DATE	
DATE 12-11-78	DRWG. NO. 1 OF 53	





DESIGNED BY	TAILEY	DESIGNED BY	TAILEY	DESIGNED BY	TAILEY	DESIGNED BY	TAILEY
DRAWN BY	R ROSTK	DRAWN BY	R ROSTK	DRAWN BY	R ROSTK	DRAWN BY	R ROSTK
TRACED BY		TRACED BY		TRACED BY		TRACED BY	
CHECKED BY	TAILEY	CHECKED BY	TAILEY	CHECKED BY	TAILEY	CHECKED BY	TAILEY
APPROVED:	<i>Maam DeLuca</i>	APPROVED:	<i>Maam DeLuca</i>	APPROVED:	<i>Maam DeLuca</i>	APPROVED:	<i>Maam DeLuca</i>
ENGINEER OF STREETS		ENGINEER OF STREETS		ENGINEER OF STREETS		ENGINEER OF STREETS	
CITY OF DETROIT		CITY OF DETROIT		CITY OF DETROIT		CITY OF DETROIT	
CITY ENGINEERING DIVISION - EPMD		CITY ENGINEERING DIVISION - EPMD		CITY ENGINEERING DIVISION - EPMD		CITY ENGINEERING DIVISION - EPMD	
BUREAU OF STREETS AND HIGHWAYS		BUREAU OF STREETS AND HIGHWAYS		BUREAU OF STREETS AND HIGHWAYS		BUREAU OF STREETS AND HIGHWAYS	
FOR		FOR		FOR		FOR	
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	
REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET		REVISIONS LOCATED BY COORDINATES ON SHEET	
1		2		3		4	
5		6		7		8	
9		10		11		12	
TYPICAL SECTIONS							
WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION							
CONTRACT NO. PW 6600							
ASSIGNMENT NO. 78-14-01							
DATE 12-11-78							
SHEET 2 OF 53 SHEETS							





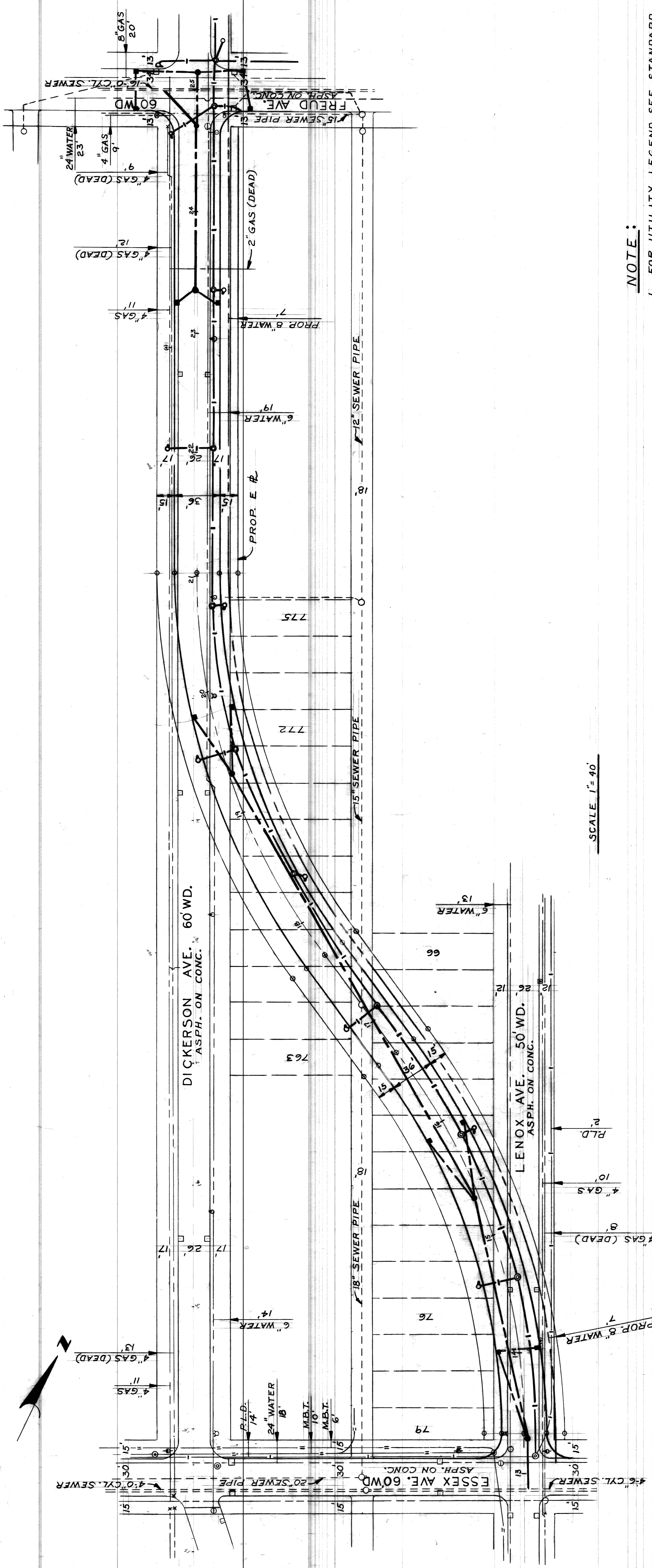
SCALE 1" = 100'

CURVE DATA

①	$\Delta = 37^{\circ}05'53''$ $R = 485'$ $T = 162.74'$ $A = 314.03'$	②	$\Delta = 37^{\circ}05'53''$ $R = 518'$ $T = 173.81'$ $A = 335.40'$	③	$\Delta = 37^{\circ}05'53''$ $R = 551'$ $T = 184.88'$ $A = 356.76'$	④	$\Delta = 47^{\circ}12'43''$ $R = 365'$ $T = 168.21'$ $A = 317.17'$	⑤	$\Delta = 47^{\circ}12'43''$ $R = 418'$ $T = 182.63'$ $A = 344.36'$	⑥	$\Delta = 47^{\circ}12'43''$ $R = 451'$ $T = 197.04'$ $A = 371.33'$
---	--	---	--	---	--	---	--	---	--	---	--

REFERENCE DRAWINGS	DESIGNED BY	APPROVED:	CITY OF DETROIT		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 3 OF 53 SHEETS						
	DRAWN BY	<i>Naim Hawkins</i>	CITY ENGINEERING DIVISION - EPMD		CONTRACT NO. PW 6600								
	TRACED BY	ENGINEER OF STREETS	BUREAU OF STREETS AND HIGHWAYS		ASSIGNMENT NO. 78-14-01								
	CHECKED BY		FOR		DATE 12-11-78								
COORDINATES LOCATED BY	DESCRIPTION		COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		ALIGNMENT SHEET								
REVISIONS LOCATED BY	DATE		1	2	3	4	5	6	7	8	9	10	11



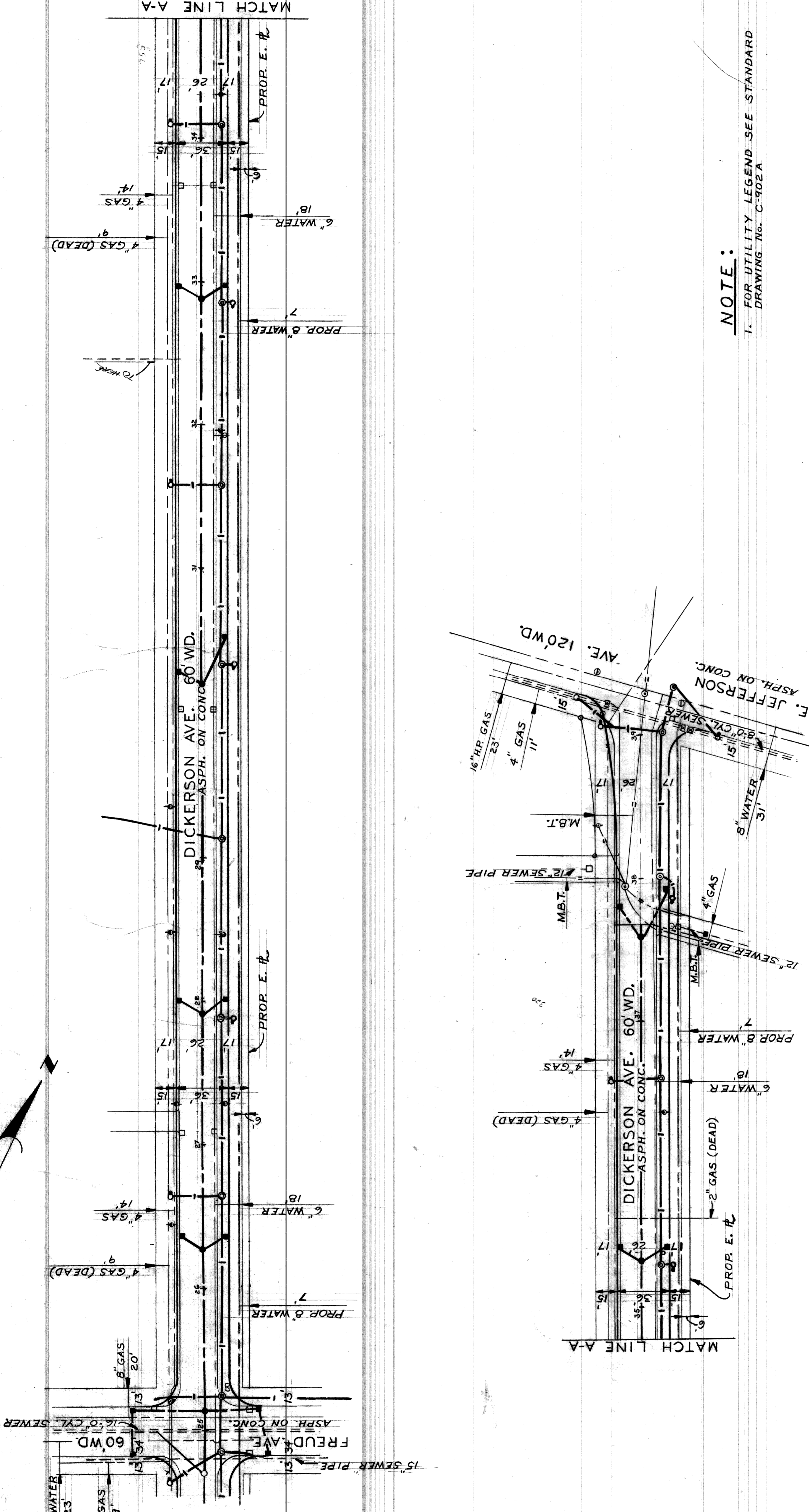


**NOTE:**

1. FOR UTILITY LEGEND SEE STANDARD DRAWING No. C-902 A
2. FOR DETAILS OF PROPOSED UTILITIES SEE THE FOLLOWING SHEETS  
 WATER - SHEETS 13-18  
 SEWER - SHEETS 19-20  
 P.L.D. - SHEETS 23-33

APPROVED: <i>Naime Hawkins</i> ENGINEER OF STREETS		DESIGNED BY DRAWN BY <i>R Resik</i> TRACED BY CHECKED BY <i>TALLEY</i>		REFERENCE DRAWINGS		CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD BUREAU OF STREETS AND HIGHWAYS FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 4 OF 53 SHEETS CONTRACT NO. PW 6600 ASSIGNMENT NO. 78-14-01 DATE 12-11-78	
REVISIONS LOCATED BY COORDINATES ON SHEET		1		2		3		4		5	
6		7		8		9		10		11	
UTILITY SHEET											





**NOTE:**  
 1. FOR UTILITY LEGEND SEE STANDARD DRAWING No. C-102A

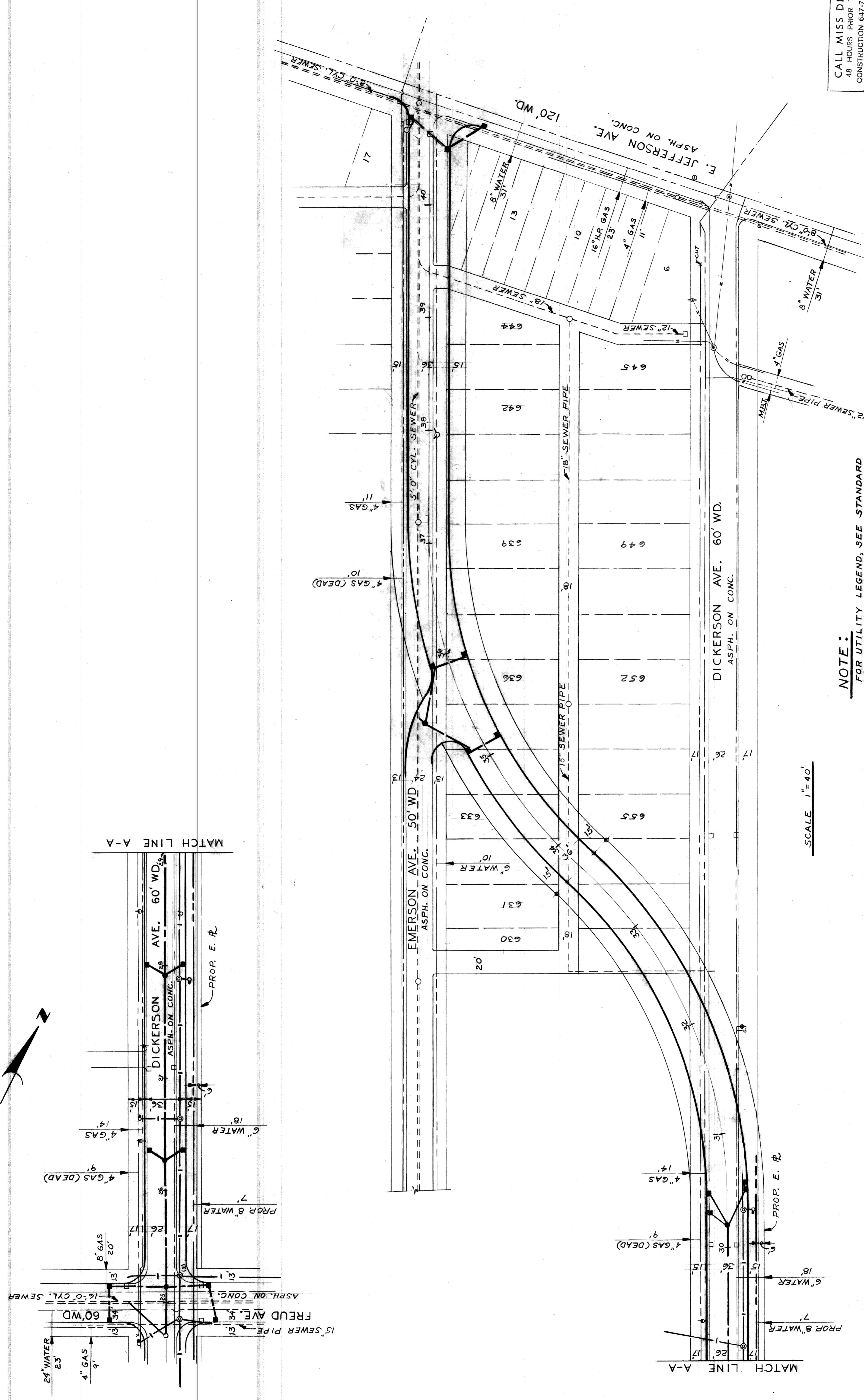
SCALE 1"=40'

*12/22/78*  
*NO*

CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD BUREAU OF STREETS AND HIGHWAYS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 5 OF 53 SHEETS CONTRACT NO. PW 6 600 ASSIGNMENT NO. 78-14-01 DATE 12-11-78	
APPROVED: <i>Naime D. Newawa</i> ENGINEER OF STREETS		DESIGNED BY DRAWN BY R Rasik TRACED BY CHECKED BY <i>Talley</i>		UTILITY SHEET	
FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		1 2 3 4 5 6 7 8 9 10 11			
REFERENCE DRAWINGS RR 7/4 RR 7/4	REVISIONS LOCATED BY COORDINATES ON SHEET				



100-100-100



CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION 647-7344

SUPPLEMENTAL 5A  
SHEET 5A OF 53 SHEETS  
CONTRACT NO. PW 6600  
ASSIGNMENT NO. 78-14-01  
DATE 7-14-80

WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX  
AND MISCELLANEOUS CONSTRUCTION  
UTILITY SHEET

CITY OF DETROIT  
CITY ENGINEERING DIVISION - EPMD  
BUREAU OF STREETS AND HIGHWAYS  
FOR  
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

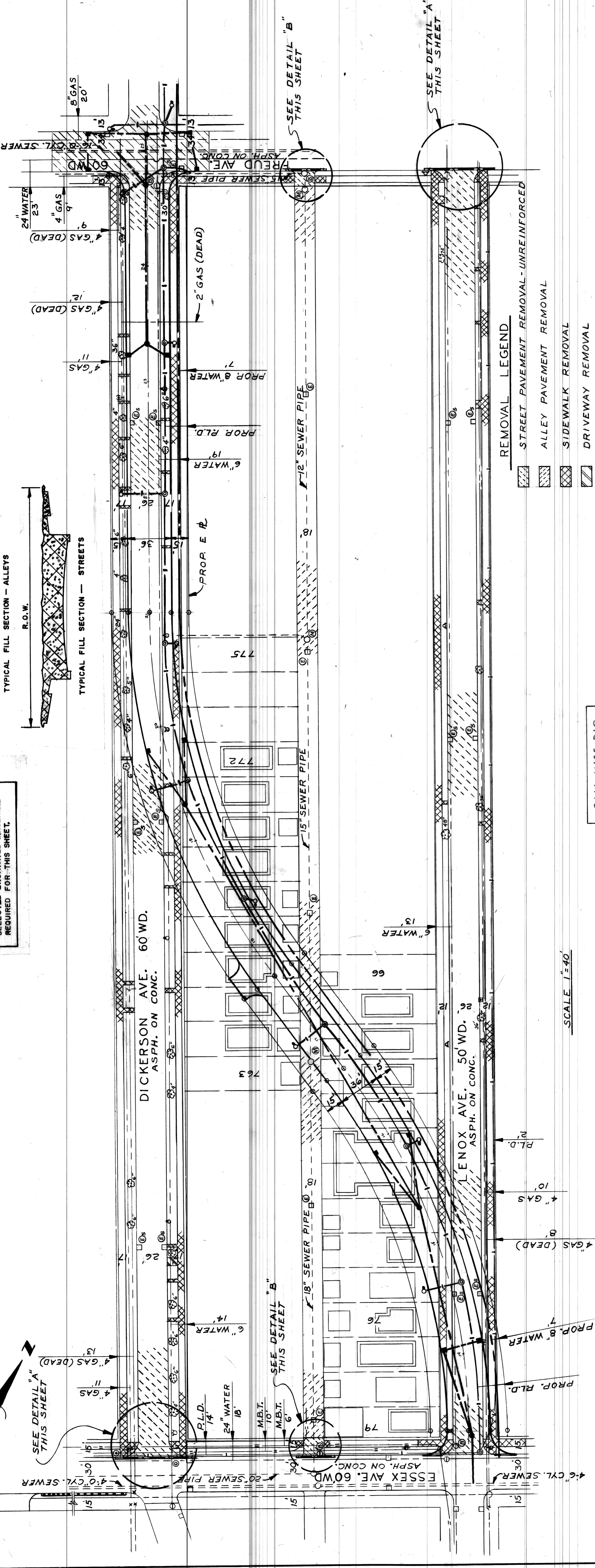
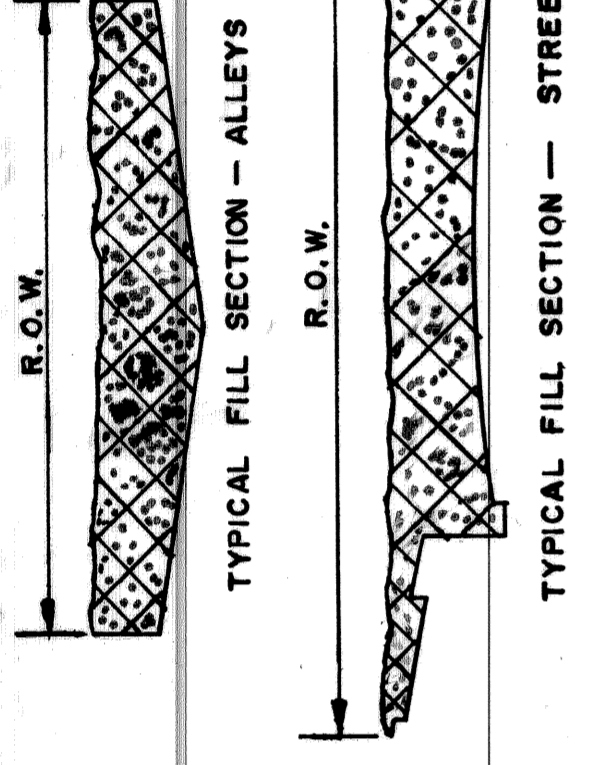
DESIGNED BY <i>TALLEY</i>	APPROVED: <i>Naim D. Louwes</i> ENGINEER OF STREETS
DRAWN BY <i>R. ROSIK</i>	
TRACED BY <i>TALLEY</i>	
CHECKED BY	

NO.	DESCRIPTION	DATE
1	REVISIONS LOCATED BY COORDINATES ON SHEET	

1 2 3 4 5 6 7 8 9 10 11



NOTE: APPROXIMATELY 3757 CYDS. OF SELECTED EXCAVATED MATERIAL REQUIRED FOR THIS SHEET.



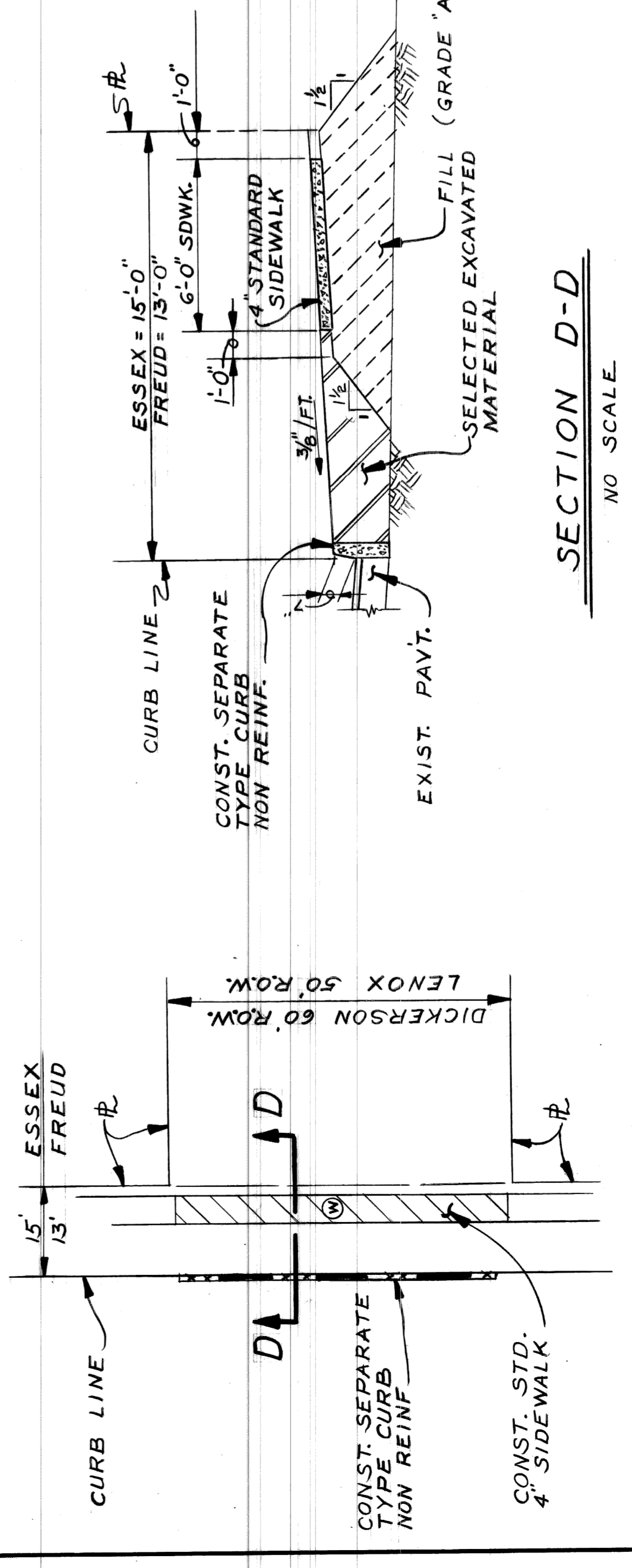
- REMOVAL LEGEND**
- STREET PAVEMENT REMOVAL - UNREINFORCED
  - ALLEY PAVEMENT REMOVAL
  - SIDEWALK REMOVAL
  - DRIVEWAY REMOVAL
  - BUILDINGS WITH BASEMENTS
  - BUILDINGS WITH FOUNDATIONS
  - TREE AND STUMP REMOVAL
  - CATCH BASIN ABANDONMENT
  - ADJUST EXISTING MANHOLE
  - MANHOLE ABANDONMENT
  - SEPARATE TYPE CURB REMOVAL
  - CATCH BASIN SPECIAL ABANDONMENT
  - BUMPER CURB REMOVAL

- GENERAL NOTES**
- FOR UTILITY LEGEND SEE STANDARD DRAWING No. C-902.A
  - FOR DETAILED QUANTITIES SEE SHEET No. 12
  - FOR HORIZONTAL CONTROL SEE SHEET No. 3
  - FOR DETAILS OF PROPOSED UTILITIES SEE THE FOLLOWING SHEETS, WATER SHEETS 13-16, SEWER SHEETS 19-20, AND R.L.D. SHEETS 23-33.

CALL MISS DIG 48 HOURS PRIOR TO CONSTRUCTION 647-7344

CONTRACTOR MUST CHECK WITH UTILITIES, BEFORE BEGINNING CONSTRUCTION, ON LOCATION OF EXISTING UTILITIES, WHETHER SHOWN ON PLANS OR NOT.

SCALE 1"=40'



SECTION D-D NO SCALE

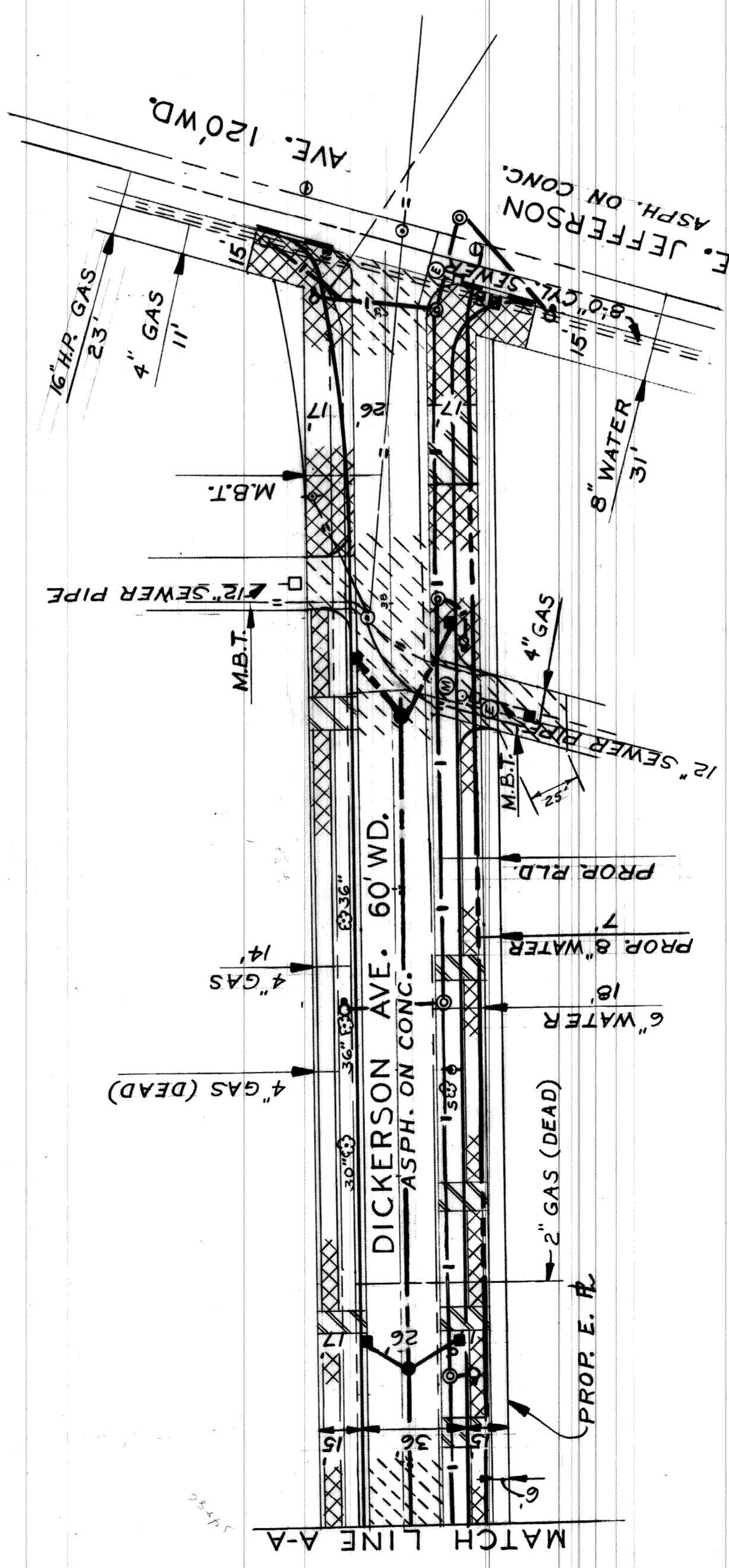
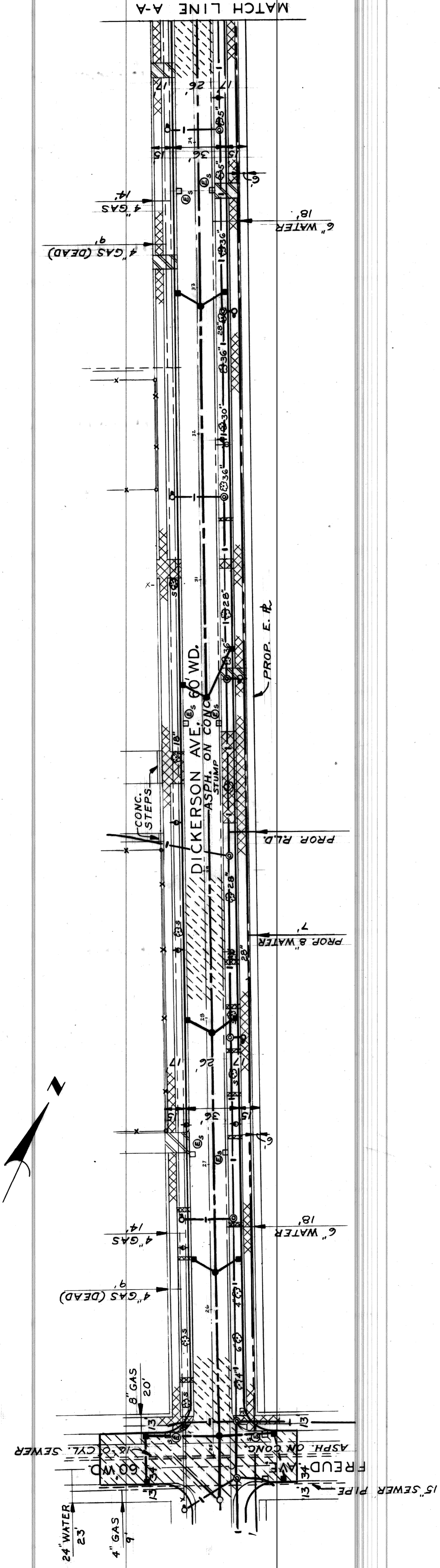
DETAIL "B" NO SCALE

ALLEY @ FREUD (SHOWN)  
ALLEY @ ESSEX (OPPOSITE)

DICKERSON ESSEX INTERSECTION (SHOWN)  
LENOX FREUD INTERSECTION (OPPOSITE)

APPROVED: <i>Naam Kaurias</i> ENGINEER OF STREETS		DESIGNED BY: R Rosik DRAWN BY: TAIEY CHECKED BY: TAIEY		CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD BUREAU OF STREETS AND HIGHWAYS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 6 OF 53 SHEETS CONTRACT NO. PW 6600 ASSIGNMENT NO. 78-14-01 DATE 12-11-78
REVISIONS LOCATED BY COORDINATES ON SHEET		FOR		COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		REMOVAL SHEET		11





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

CONTRACTOR MUST CHECK WITH UTILITIES, BEFORE  
BEGINNING CONSTRUCTION, ON LOCATION OF EXISTING  
STRUCTURES, WHETHER SHOWN ON PLANS OR NOT

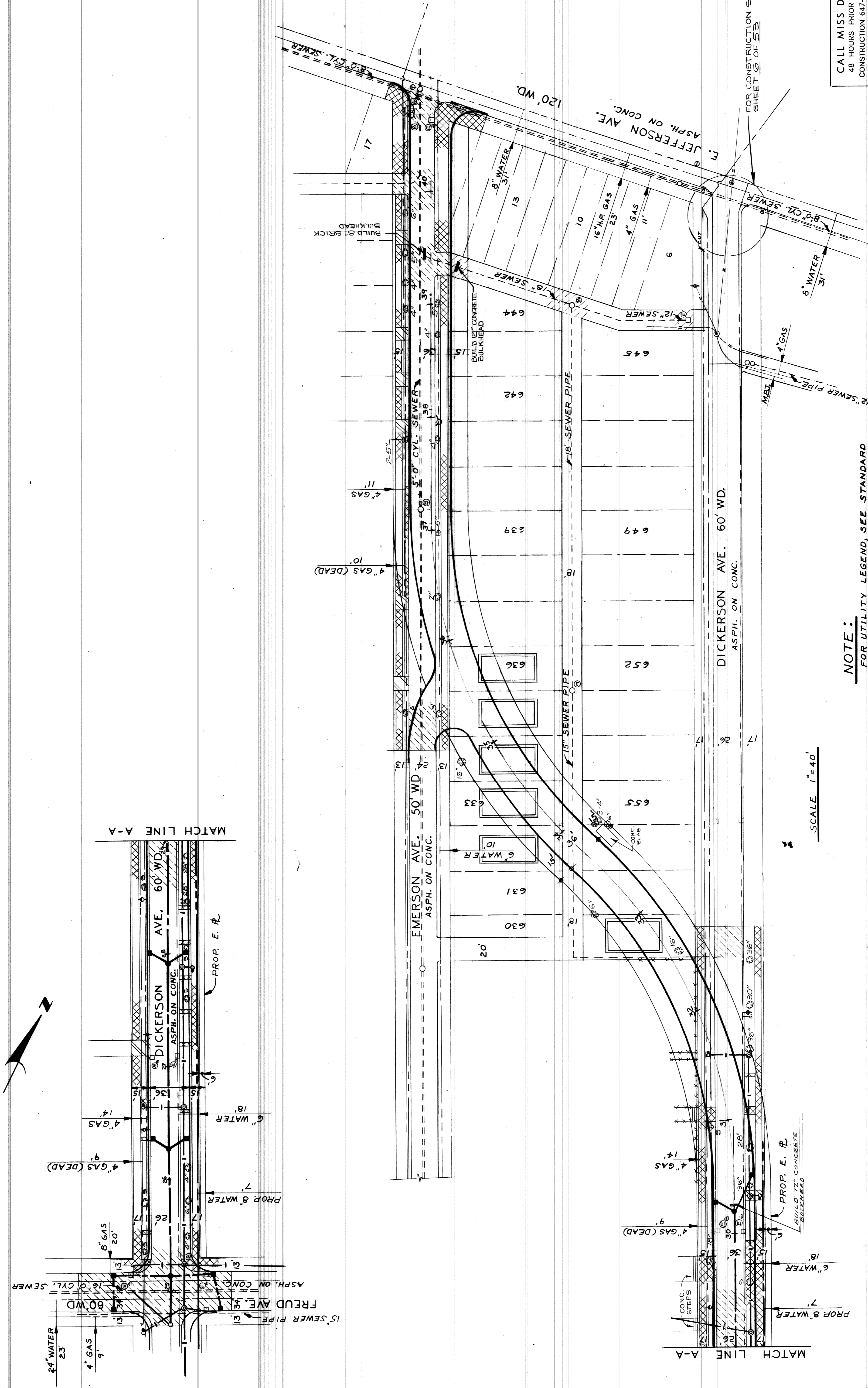
**NOTE:  
FOR REMOVAL LEGEND AND GENERAL NOTES  
SEE SHEET No. 6 OF THIS CONTRACT.**

SCALE 1"=40'

*NOT*

<p>APPROVED: <i>Thom Stewart</i> ENGINEER OF STREETS</p>	<p>DESIGNED BY R Rosik</p>	<p>REFERENCE DRAWINGS</p>	<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p>	<p>CONTRACT NO. PW 6600</p>	<p>SHEET 7 OF 53 SHEETS</p>
<p>FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT</p>	<p>TRACED BY TALLEY</p>	<p>DRAWN BY</p>	<p>1</p>	<p>ASSIGNMENT NO. 78-14-01</p>	<p>CONTRACT NO. PW 6600</p>
<p>CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD BUREAU OF STREETS AND HIGHWAYS</p>	<p>CHECKED BY</p>	<p>2</p>	<p>3</p>	<p>DATE 12-11-78</p>	<p>WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION</p>
<p>REMOVAL SHEET</p>	<p>4</p>	<p>5</p>	<p>6</p>	<p>7</p>	<p>8</p>
<p>9</p>	<p>10</p>	<p>11</p>	<p>12</p>	<p>13</p>	<p>14</p>





CALL MISS DIG  
48 HOURS PRIOR TO  
CONSTRUCTION 647-7344

NOTE:  
FOR UTILITY LEGEND, SEE STANDARD  
DRAWING No. C-702 A

SCALE 1" = 40'

SUPPLEMENTAL TA SHEET 7A OF 53 SHEETS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION	
CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD BUREAU OF STREETS AND HIGHWAYS		REMOVAL SHEET	
DESIGNED BY TALLEY	DRAWN BY R. ROBE	TRACED BY TALLEY	CHECKED BY TALLEY
APPROVED: M. J. Rawlins ENGINEER OF STREETS	COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT		
REFERENCE DRAWINGS	DPN LND APD DATE	REVISIONS LOCATED BY COORDINATES ON SHEET	DATE 7-14-80
CONTRACT NO. PW 6600		ASSIGNMENT NO. 78-14-01	



BOOK: 11-22-78  
 LEVEL: 1-27  
 DATE: 3-13-78  
 CONTRACTOR: WIDENING OF DRIVEWAY FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION  
 SCALE: HORIZONTAL 1" = 40'  
 VERTICAL 1" = 2'

NOTE: FOR SYMBOLS (C) ETC. SEE STANDARD DETAIL DRAWING NO. C-179

**BENCH MARKS**

MARKS	ELEV
P.B.M. #62-252 N.E. COR. DICKERSON & FREUD	93.262R
P.B.M. #62-252A N.E. COR. DICKERSON & FREUD	94.564R
C.B.M. #1 HYD. S.W. COR. LENOX & FREUD	97.71
C.B.M. #1 HYD. 350'± N.N. IN E. ESSEX ON 1/2 LENOX	97.50
C.B.M. #1 HYD. N.W. COR. LENOX & ESSEX	95.91

**BENCH**  
 HORIZONTAL CONTROL  
 (SEE SHEET # 3)

**CONSTRUCTION LEGEND**

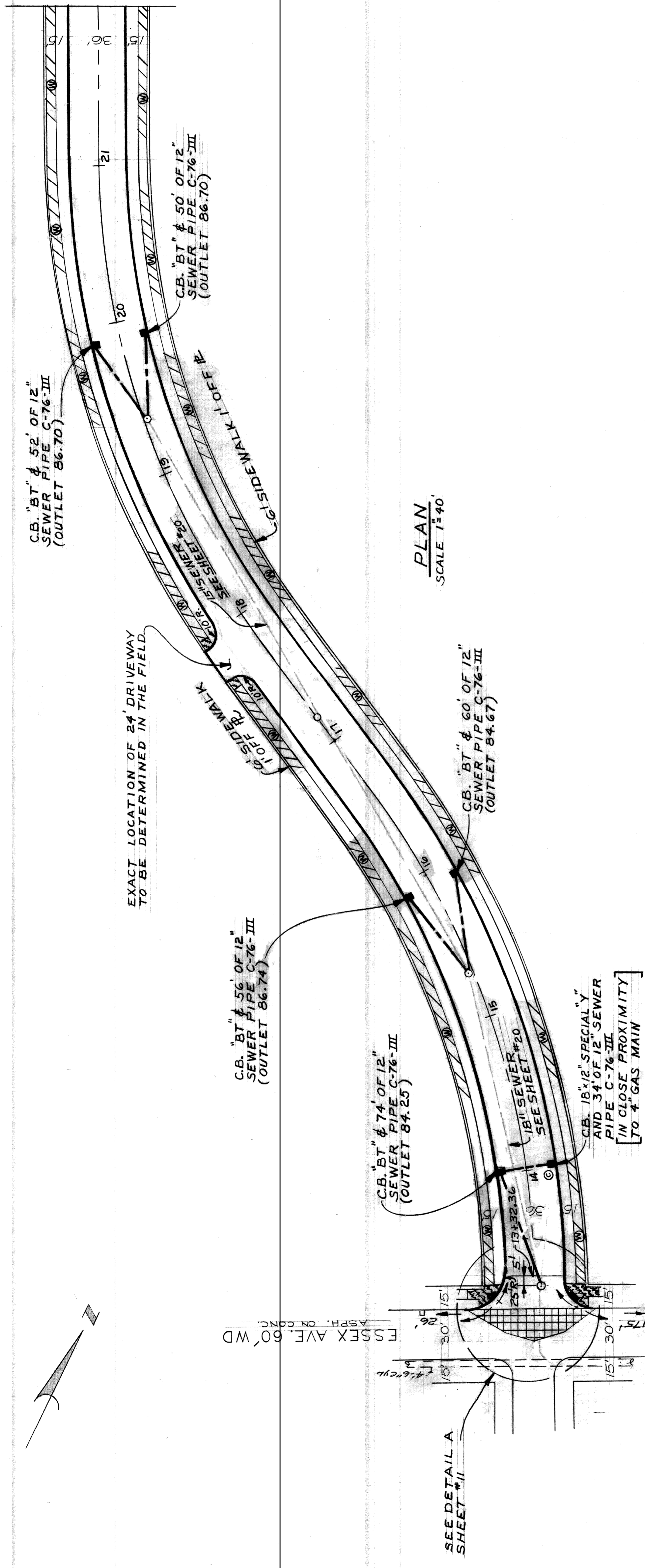
- 4" CONCRETE SIDEWALK
- 6" CONCRETE SIDEWALK
- DRIVEWAY - 6" STANDARD

- STRIP AND ADJUST ASPHALT SURFACE
- C.B. "A" CONSTRUCT CATCH BASIN "A"
- C.B. "BT" CONSTRUCT CATCH BASIN "B" WITH TRAP
- CONSTRUCT STANDARD SEWER MANHOLES
- STANDARD RAMP TYPE 3
- SINGLE BEAM BARREL BARRICADE
- CONSTRUCT DROP MANHOLE
- CONSTRUCT 18"x12" SPECIAL "Y" C.B.

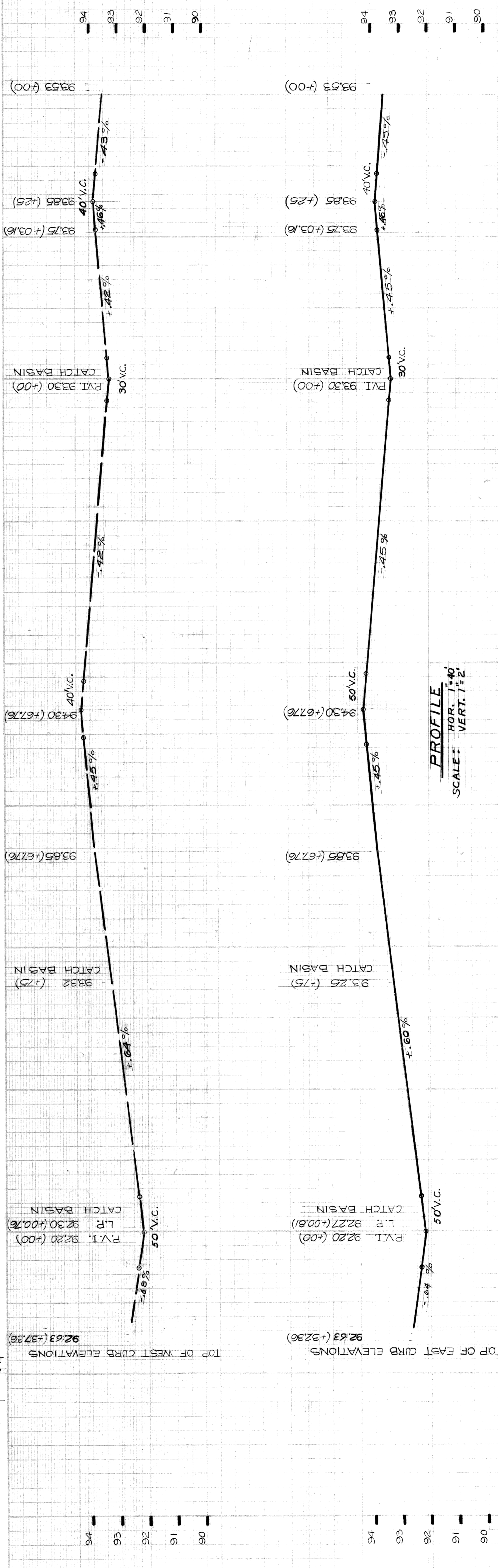
**NOTES:**

1. FOR DETAILED QUANTITIES SEE SHEET # 12.
2. ALL STATIONING IS ALONG THE 'E' OF THE PROPOSED P.O.V.C.
3. ALL RADIUS ARE 20' UNLESS OTHERWISE NOTED.
4. PAVEMENT TO BE 9" UNIFORM REINFORCED CONCRETE WITH REINFORCED INTEGRAL CURB UNLESS OTHERWISE NOTED.

MATCH LINE STA. 22+00



**PLAN**  
 SCALE 1" = 40'



**PROFILE**  
 HOR. SCALE: 1" = 40'  
 VERT. SCALE: 1" = 2'

SHEET 8 OF 53 SHEETS CONTRACT NO. PW6600 ASSIGNMENT NO. 78-14-01 DATE 12-11-78	
WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION	
CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS	
COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT	
APPROVED: <i>Naime D. Kammee</i> ENGINEER OF STREETS	CHECKED BY: <i>A.G.U.</i> BY: <i>TALLEY</i> ESTIMATE: <i>TALLEY</i> FINAL: <i>TALLEY</i>
PLAN: <i>RR 111</i> GRADE: <i>9/16</i> ESTIMATE: <i>9/16</i> FINAL: <i>9/16</i>	REVISIONS:

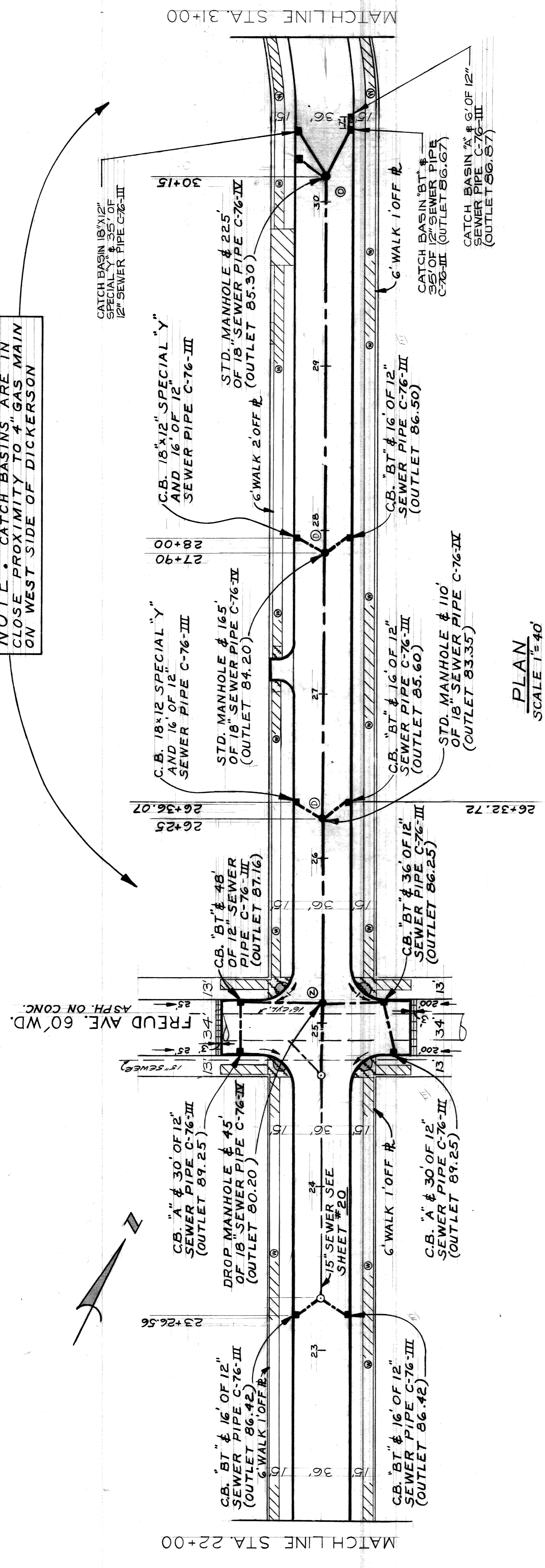
*B. Brant 1/2 12/11/78*



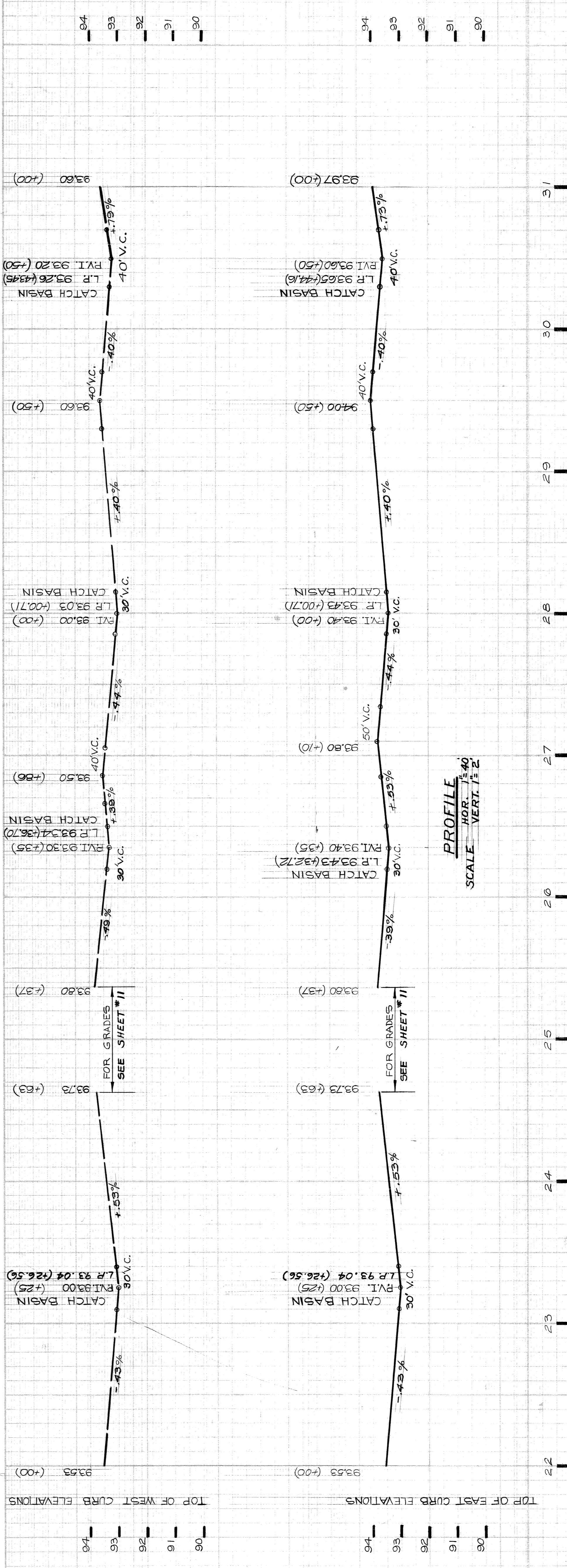
**MARKS**  
ELEV  
P.B. M. # 62-257 N.E. COR. JEFFERSON & DICKERSON 96.867  
P.B. M. # 62-252 N.E. COR. DREXEL & FREUD 94.564R  
R.B.M. # 62-252 N.E. COR. DICKERSON & FREUD 93.282R  
C.B.M. # 1 HYD. 1/2 W. COR. FREUD & LENOX 97.74  
C.B.M. # 1 HYD. 1/2 DICKERSON STA. 28+46 96.74  
HORIZONTAL CONTROL  
(SEE SHEET # 3)

1. FOR LEGEND SEE SHEET # 8  
2. FOR NOTES SEE SHEET # 8

**NOTE: CATCH BASINS ARE IN CLOSE PROXIMITY TO 4" GAS MAIN ON WEST SIDE OF DICKERSON**



PLAN  
SCALE 1"=40'

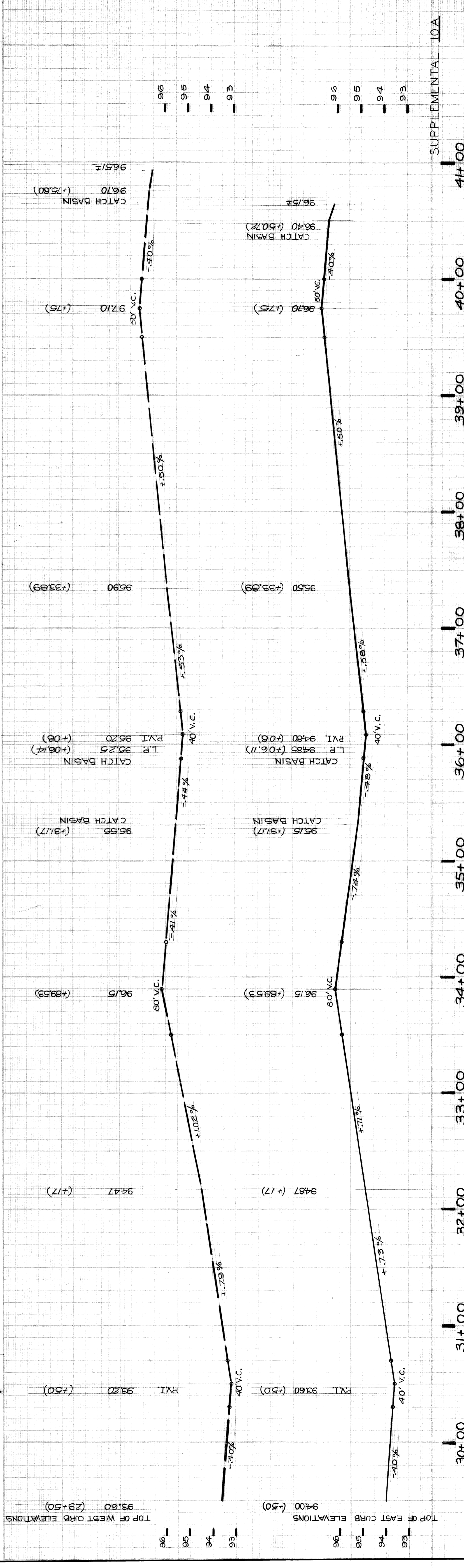
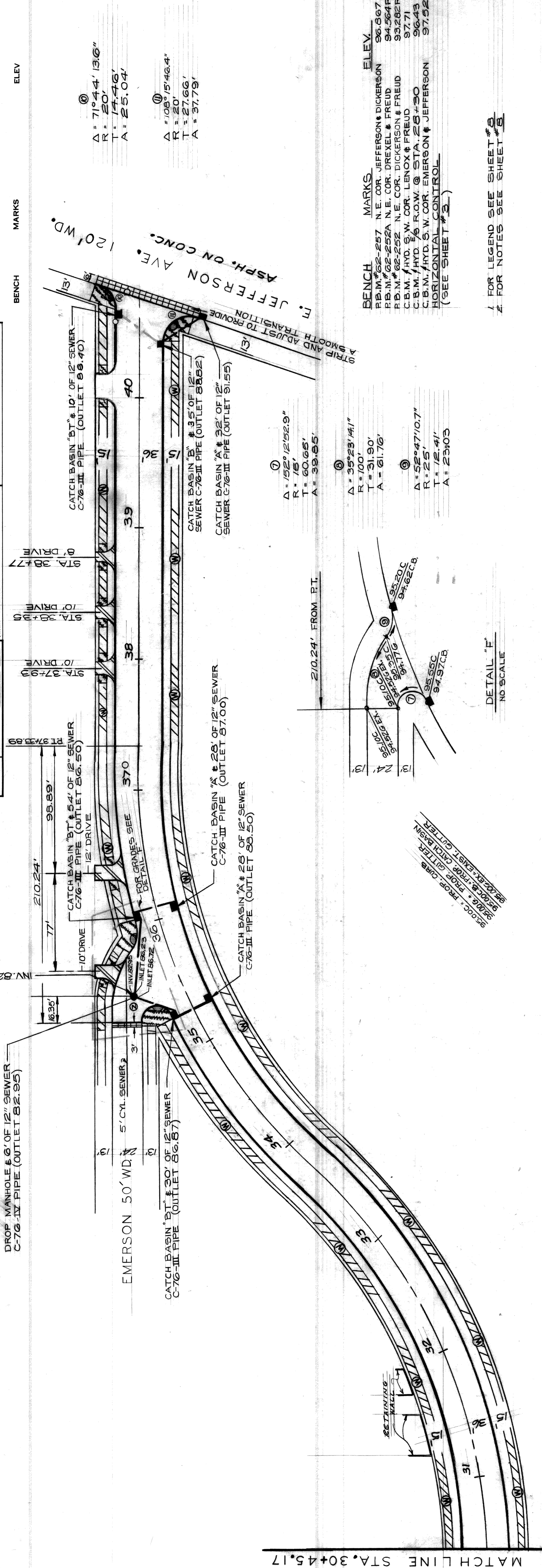


PROFILE  
HOR. SCALE 1"=40'  
VERT. SCALE 1"=2'

APPROVED BY: <i>Raimund Kawuras</i> ENGINEER OF STREETS		CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 9 OF 53 SHEETS INDEX NO. 31
CHECKED BY: <i>R. Fosk</i> PLAN		CHECKED BY: <i>T. H. H.</i> GRADE		CONTRACT NO. PW6600		INDEXED NO. 62
BY: <i>T. H. H.</i> ESTIMATE		BY: <i>T. H. H.</i> FINAL		ASSIGNMENT NO. 78-14-01		DATE 12-11-78
FOR COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT						
PAVING PLAN						

*R. Fosk / 11/1/78*





APPROVED BY: <i>Harold Lawrence</i> ENGINEER OF STREETS		CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 10A OF 53 SHEETS		
CHECKED BY: JONES	PLAN	CITY OF DETROIT	CONTRACT NO. PW 6600	ASSIGNMENT NO. 78-14-01	DATE 2-11-80	SUPPLEMENTAL 10A		
CHECKED BY: TALLEY	GRADE	CITY OF DETROIT	PAVING PLAN				CONTRACT NO. PW 6600	
CHECKED BY: TALLEY	ESTIMATE	CITY OF DETROIT	COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT				ASSIGNMENT NO. 78-14-01	
CHECKED BY: TALLEY	FINAL	CITY OF DETROIT	FOR				DATE 2-11-80	
LOCATION OF NEW REVISIONS MAIL ADDED		DESCRIPTION		REVISIONS		DATE		

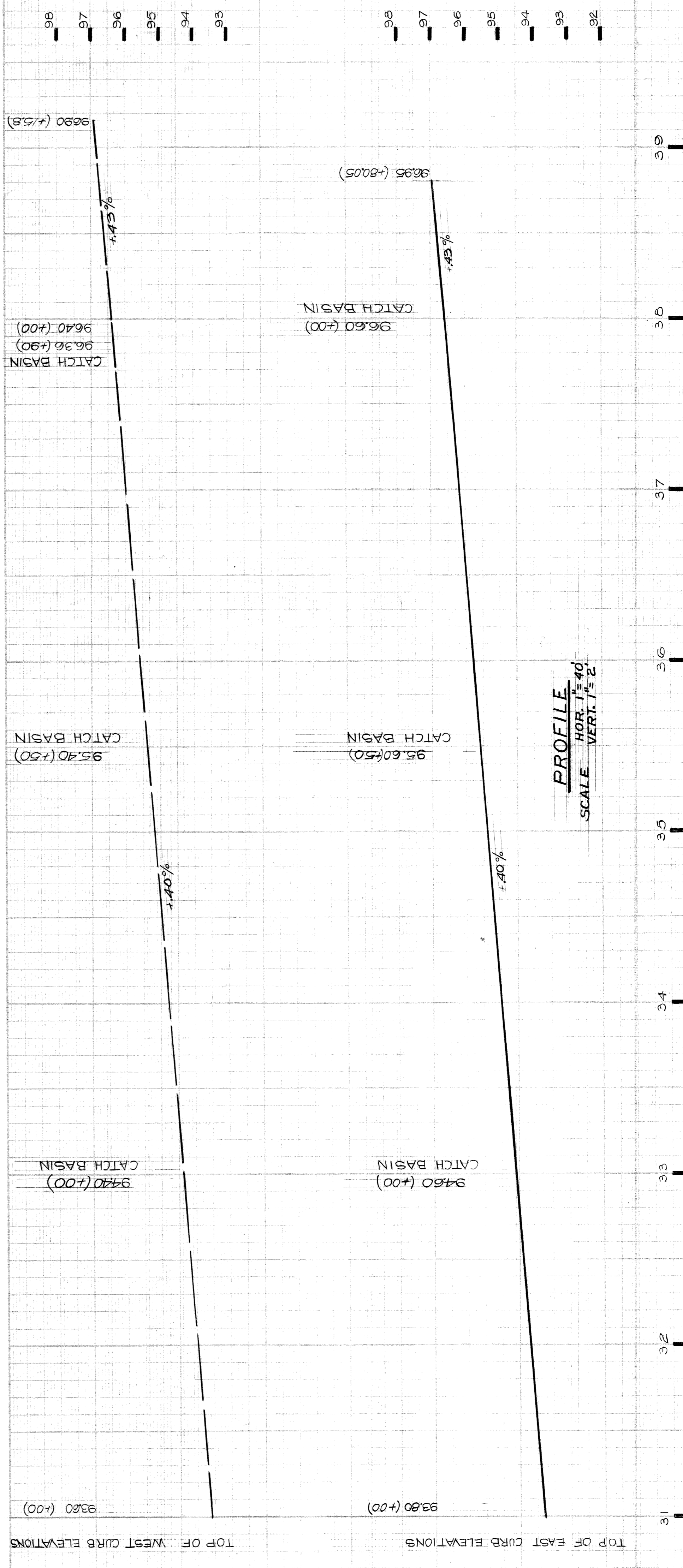
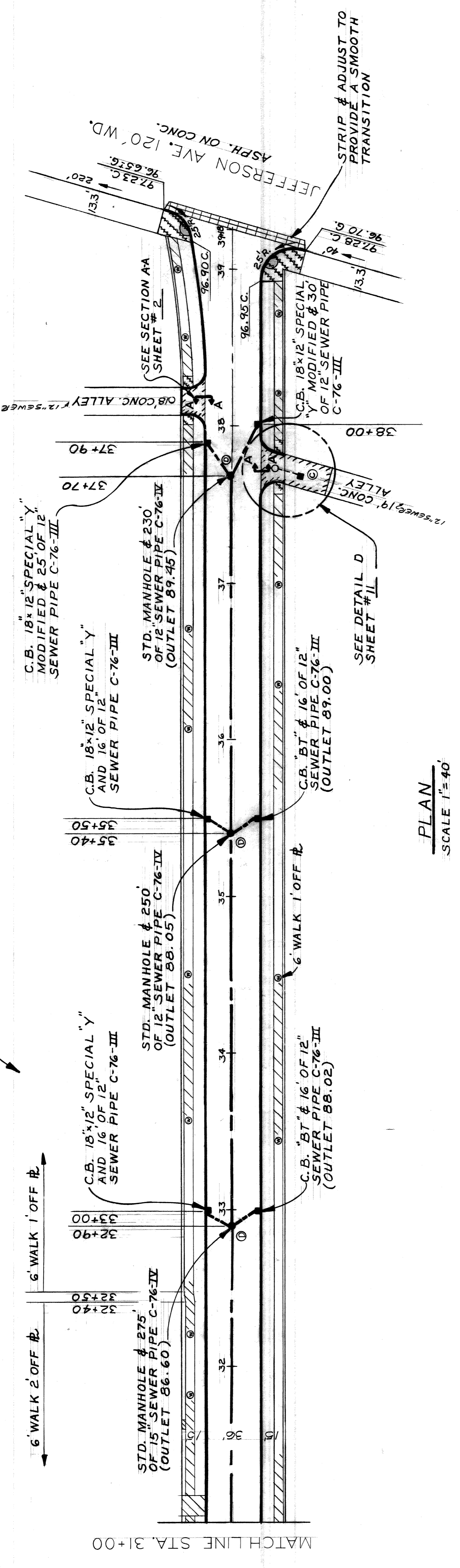
Sewer Approved  
 2/11/80



**BENCH MARKS**  
 P.B.M. #62-257 N.E. COR. JEFFERSON & DICKERSON 96.667  
 P.B.M. #62-256 N.E. COR. DICKERSON & FREUD 93.262  
 C.B.M. #1 HYD. 1/2 DICKERSON STA. 31+95 97.75  
 C.B.M. #1 HYD. 1/2 DICKERSON STA. 35+47 99.08  
 HORIZONTAL CONTROL  
 (SEE SHEET #3.)

**NOTE: CATCH BASINS ARE IN CLOSE PROXIMITY TO 4" GAS MAIN ON WEST SIDE OF DICKERSON**

1. FOR LEGEND SEE SHEET #8  
 2. FOR NOTES SEE SHEET #8



WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		SHEET 10 OF 53 SHEETS CONTRACT NO. PW 6600 ASSIGNMENT NO. 78-14-01 DATE 12-11-78
CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAUS OF STREETS AND HIGHWAYS		FOR PAVING PLAN COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT
APPROVED: <i>James R. Korman</i> ENGINEER OF STREETS		
CHECKED BY R. Rosik	BY R. Rosik	PLAN GRADE ESTIMATE FINAL
ESTIMATE T. G. N.	DIRECTOR T. G. N.	
REVISIONS T. G. N.	T. G. N.	
T. G. N.	T. G. N.	

*R. Rosik 12/11/78*

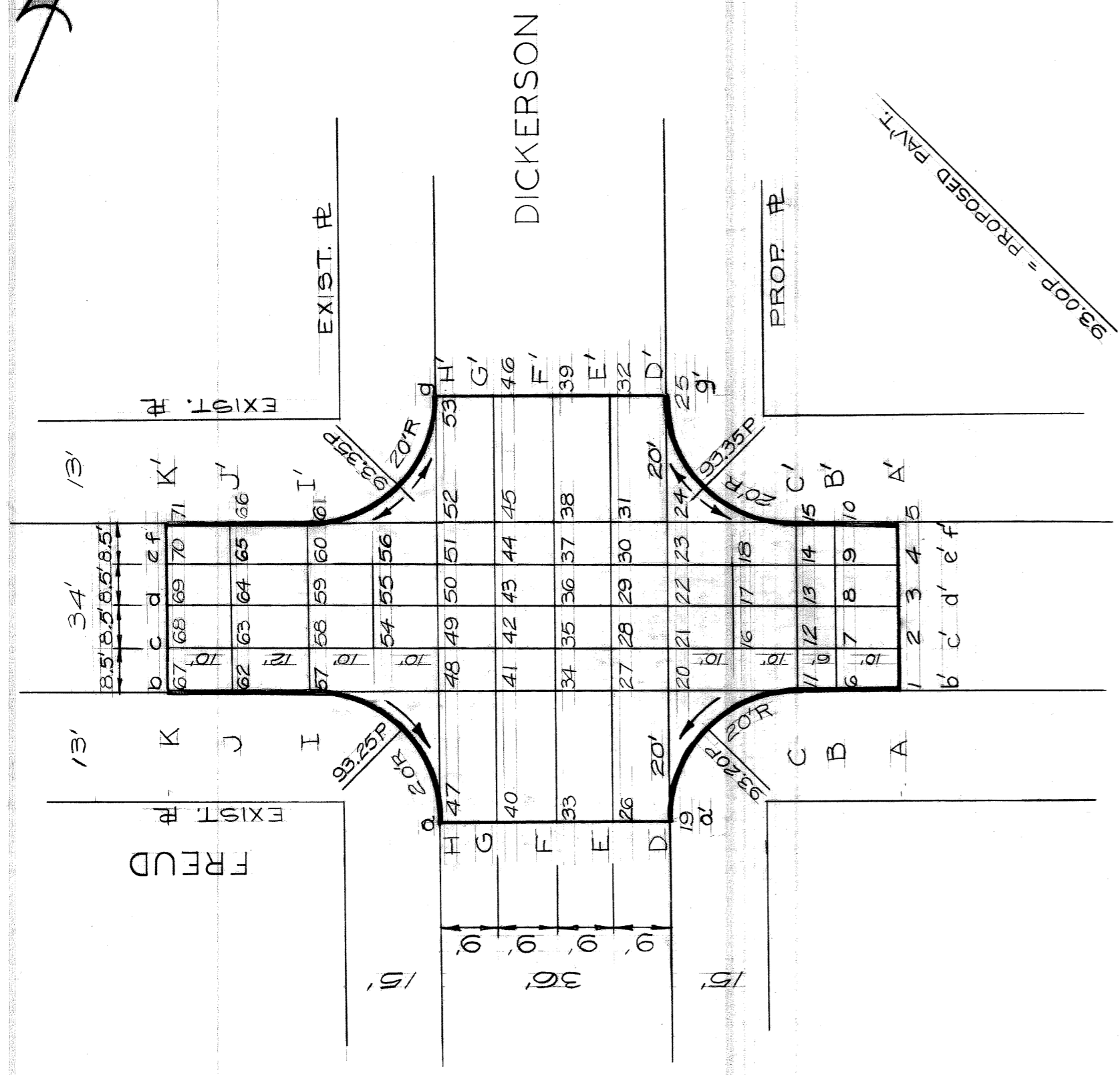


BEFORE BEARING CONSTRUCTION, CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.

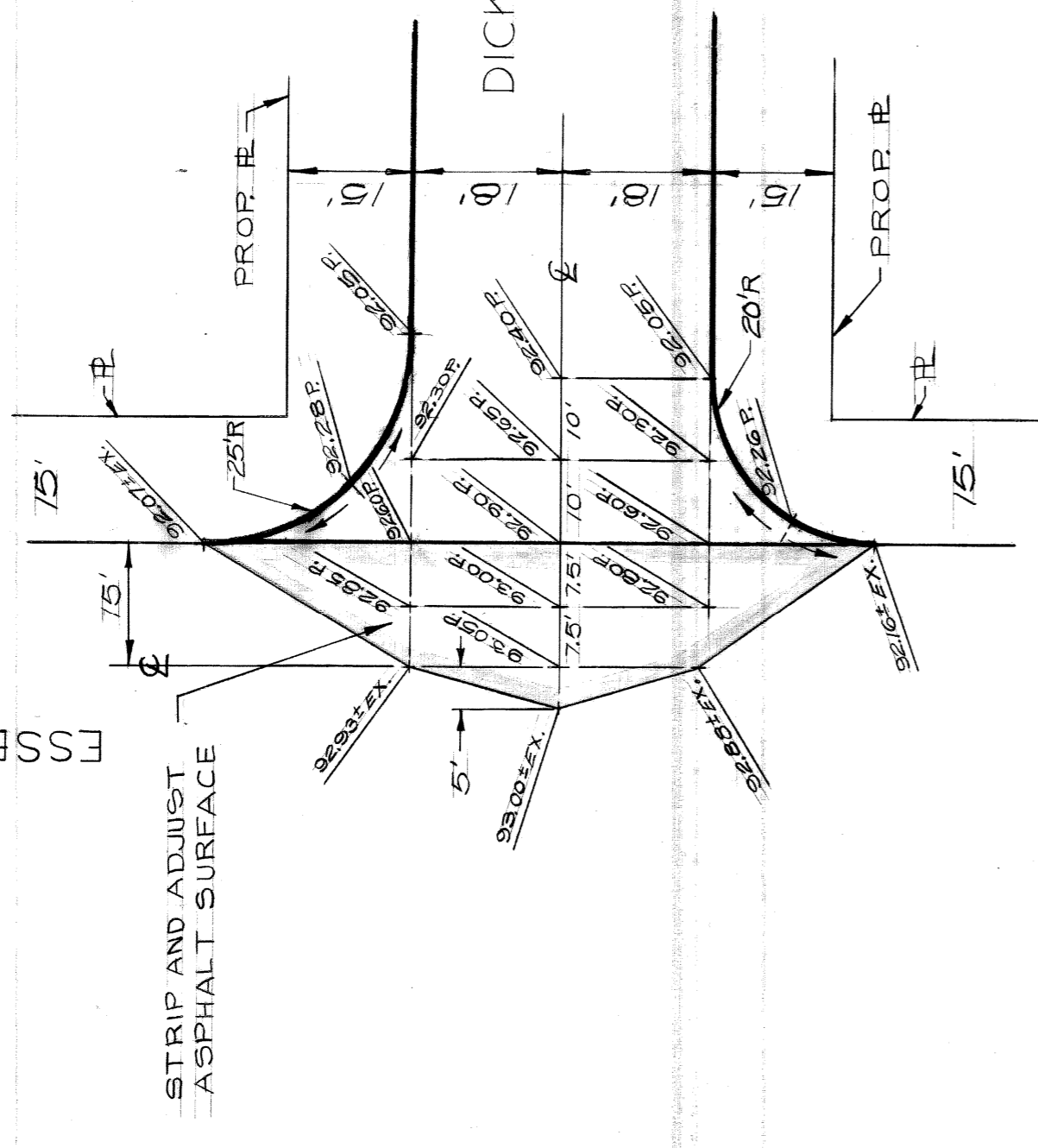
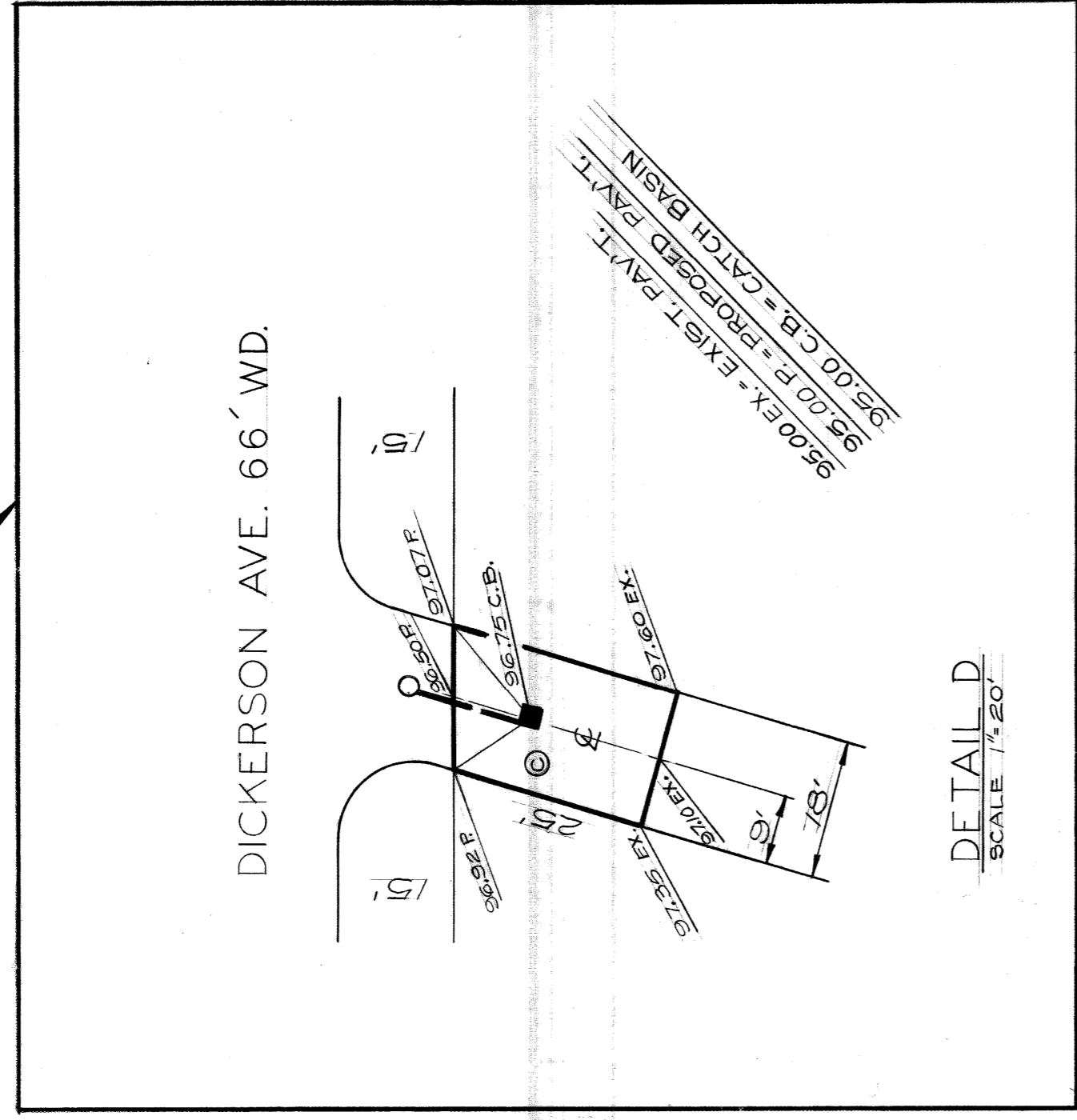
NOTE - FOR SYMBOLS (C) ETC. SEE STANDARD DETAIL DRAWING NO. C-379

BOOK NO. PG. DATE  
LEVEL  
SCALE HORIZONTAL VERTICAL  
PAVING COMPLETED

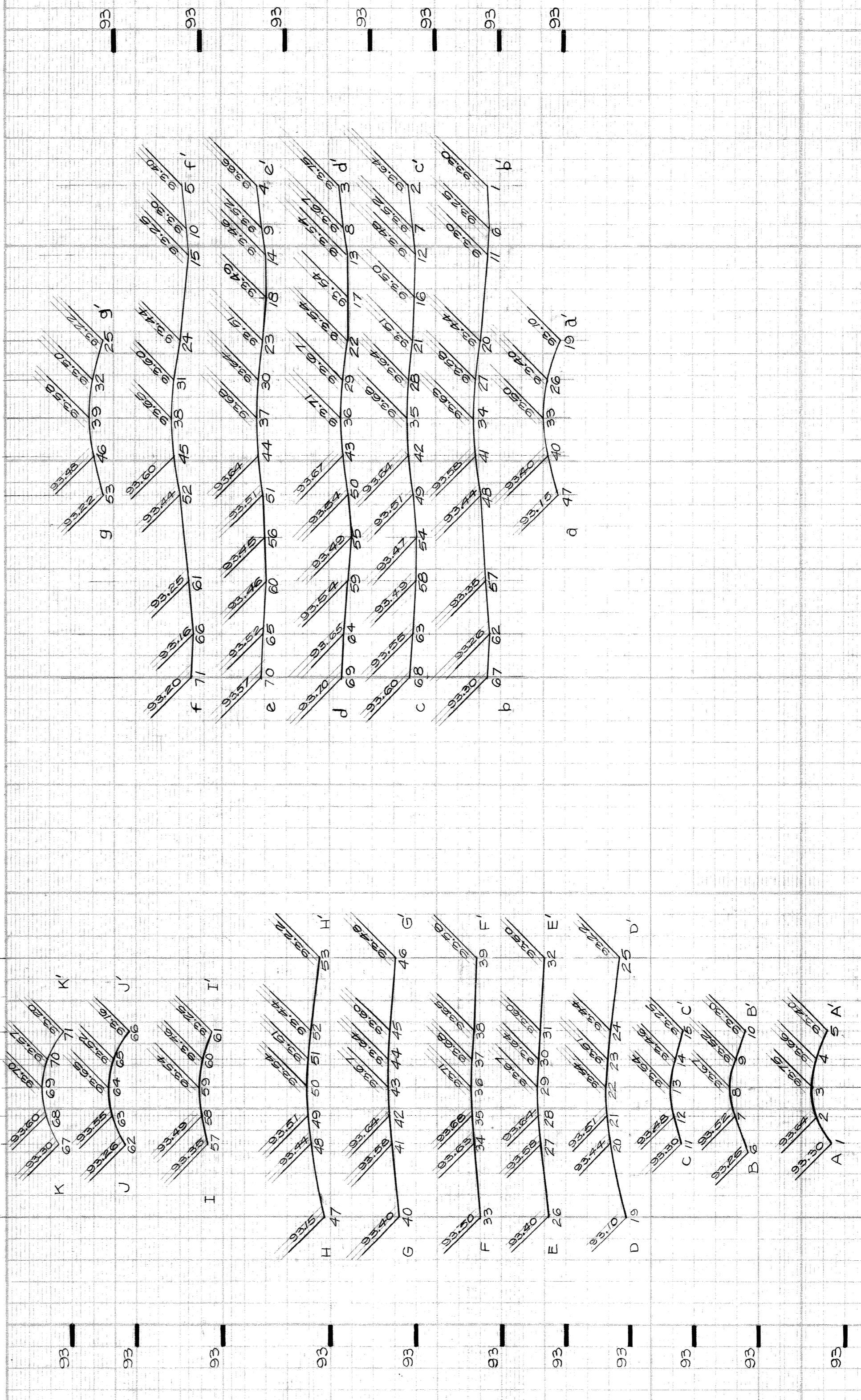
BENCH MARKS ELEV.



NOT IN CONTRACT



NOTE: USE HIGH EARLY STRENGTH CONCRETE AT FREUD INTERSECTION



DELETED: DETAIL D 2/11/74 7/4/74	BY: <i>D. Bell</i>	CHECKED BY: <i>TAILEY</i>	APPROVED: <i>James R. ...</i> ENGINEER OF STREETS	CITY OF DETROIT CITY ENGINEERING DEPARTMENT BUREAU OF STREETS AND HIGHWAYS		WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX AND MISCELLANEOUS CONSTRUCTION		MARK NO.	SHEET 11 OF 53 SHEETS
				PLAN	GRADE	ESTIMATE	FINAL	CONTRACT NO. PW 6600	ASSIGNMENT NO. 78-14-01
DESCRIPTION REVISIONS				COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT				DETAIL SHEET	











ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY	PRICE	AMOUNT	QTY	PRICE	AMOUNT	QTY	PRICE	AMOUNT
1	EXCAVATION	CYDS	486	1210	588,660	1210	588,660	6916			
2	STREET PAVT. REMOVAL UNREINF.	SYDS	1554	2943	4,572,420	2943	4,572,420	7055			
3	ALLEY PAVEMENT REMOVAL	SYDS	286		286		286	7055			
4	NONREINFORCED CONCRETE REMOVAL	CYDS	119		119		119	7055			
5	DRIVEWAY REMOVAL	SFT	297	1160	344,580	1160	344,580	1457			
6	SIDEWALK REMOVAL	SFT	7067	11,710	82,702,770	11,710	82,702,770	30,719			
7	GRADING ABANDONED STREETS	SYDS	381		381		381				
8	TREE REMOVAL 4"-12" DIA.	EACH	6	9	54	9	54	17			
9	TREE REMOVAL 13"-18" DIA.	EACH	1	1	1	1	1	1			
10	TREE REMOVAL 24" DIA.	EACH	1		1		1				
11	TREE REMOVAL 28" DIA.	EACH	3	1	3	1	3	4			
12	TREE REMOVAL 30" DIA.	EACH	1	2	2	2	2	3			
13	TREE REMOVAL 36" DIA.	EACH	2	5	10	5	10	7			
14	STUMP REMOVAL	EACH	6		6		6	8			
15	SEPARATE TYPE CURB REMOVAL UNREINF.	LFT	145		145		145	200			
16	FILL - (GRADE A)	CYDS	1648	43	70,624	43	70,624	1691			
17	FILL - (22A)	CYDS	425	508	215,800	508	215,800	1342			
18	MANHOLE ADJUSTMENT	EACH	1	1	1	1	1	3			
19	MANHOLE-RECONSTRUCT CONE	EACH	1		1		1				
20	MANHOLE - STANDARD	EACH	3	3	9	3	9	7			
21	CATCH BASIN ABANDONMENT	EACH	2		2		2	2			
22	CATCH BASIN "A"	EACH	1	2	2	2	2	3			
23	CATCH BASIN "B" WITH TRAP	EACH	5	10	50	10	50	21			
24	CATCH BASIN 18"x12" SPECIAL "Y"	EACH	1		1		1	1			
25	MANHOLE - DROP	EACH	1		1		1	1			
26	CATCH BASIN SPECIAL ABANDONMENT	EACH	2	9	18	9	18	13			
27	SEWERS 18" PIPE C-76-IV	LFT	527		527		527	527			
28	SEWERS 12" PIPE C-76-IV	LFT	490		490		490	490			
29	SEWERS 12" PIPE C-76-III	LFT	326	291	94,746	291	94,746	737			
30	SEWERS 15" PIPE C-76-IV	LFT	83		83		83	271			
31	PAVEMENT - 6" UNIFORM CONCRETE	SYDS	153		153		153	203			
32	PAVEMENT - 8" UNIFORM CONCRETE ***	SYDS	240		240		240	240			
33	PAVEMENT - 9" REINFORCED CONCRETE ***	SYDS	3670	3738	13,416,300	3738	13,416,300	10,939			
34	SEPARATE CURB - UNREINF. MODIFIED	LFT									
35	TEST CORES	EACH						10			
36	SIDEWALK 4" STANDARD *	SFT	9280	10,377	96,021,600	10,377	96,021,600	29,259			
37	SIDEWALK 6" STANDARD *	SFT	892	1278	1,140,156	1278	1,140,156	2708			
38	DRIVEWAY 6" STANDARD	SFT	403		403		403	403			
39	BITUMINOUS CONCRETE CURB	LFT	36		36		36	36			
40	SINGLE BEAM BARREL BARRICADE 37.5' LENGTH	EACH	2		2		2	2			
41	STRIP AND ADJUST ASPHALT SURFACE	SYDS	106	23	2,438	23	2,438	190			
42	PAYT. 9" UNIFORM REIN. HIGH EARLY STR. ***	SYDS	644		644		644	644			
43	CLEAN STRUCTURES	EACH						1			
44	MAINTAINING TRAFFIC	LUMPSUM									
45	WATER ALTERATIONS										
46	SEWER ALTERATIONS										
47	LANDSCAPE DEVELOPMENT										
48	ELECTRICAL ITEMS										

\*\*\* CONSTRUCTION ONLY  
 \*\* INCLUDES REINFORCED INTEGRAL CURBS, SEE STANDARD DRAWING C-4943  
 \* INCLUDES TYPE III CURBS, SEE STANDARD DRAWINGS C-4380 OR C-4381

WIDENING OF DICKERSON FROM JEFFERSON TO ESSEX  
 AND MISCELLANEOUS CONSTRUCTION

CITY OF DETROIT  
 CITY ENGINEERING DIVISION - EPMD  
 BUREAU OF STREETS AND HIGHWAYS  
 FOR  
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

APPROVED: *Maimon*  
 ENGINEER OF STREETS

DESIGNED BY: JONES  
 DRAWN BY: JONES  
 TRACED BY: TALLEY  
 CHECKED BY: TALLEY

NO.	DESCRIPTION	DATE
1	REVISIONS LOCATED BY COORDINATES ON SHEET	

SHEET 12 OF 53 SHEETS  
 CONTRACT NO. PW6600  
 ASSIGNMENT NO. 78-14-01  
 DATE 12-11-78



**GENERAL NOTES**

All Water Main construction shall be performed with materials and workmanship of the highest quality for the particular purpose and shall strictly conform to the current standards and specifications of the Detroit Water and Sewerage Department.

Pavement removal and replacement, excavation and backfilling for the entire work shall be done by the contractor, including that for work to be done by the D.W.S.D.

The contractor shall furnish all waterworks material required for the entire work, including materials for work indicated on the drawings to be done by the D.W.S.D., except for materials for services 2-inch in diameter or smaller.

After the newly constructed Water Mains have been satisfactorily pressure tested, flushed and chlorinated, the contractor shall make all connections to existing Water Mains, unless otherwise noted or shown on the drawings.

Service connections, 2-inch in diameter or smaller, and their relocations will be made by D.W.S.D. Abandoned water services 2-inch in diameter or smaller on Existing Water Mains to remain in service will be abandoned at the Existing Water Mains by D.W.S.D. Services to be abandoned at the Existing Water Main or to be reconnected to the New Water Mains are not all shown on the plans.

Existing Water Mains, as shown, indicate approximate locations only as shown by D.W.S.D. records and no guarantee is made as to completeness or accuracy.

Elevations of Existing Water Mains are not known. Approximate elevations shown on the profiles are based on the assumption of 5 feet average depth. The grades of the Proposed Water Mains are subject to change to suit actual elevations of Existing Water Mains.

The locations and elevations of existing utilities are shown in accordance with available data. The Contractor shall expose these utilities, where required, to determine actual locations.

Other utilities may be making alterations to their existing systems in the vicinity of the Water Main construction shown on the plans. These utilities should be consulted for the latest information regarding the location of their facilities.

A minimum clearance of one foot vertically and three and one half feet horizontally shall be maintained between the Water Main and other utilities, unless otherwise shown on the plans or approved by the Engineer. If a conflict is indicated between the Water Main and any other utility, that utility should be consulted.

The location of Fire Hydrants, as shown, are approximate. D.F.D. will give exact location of New or Relocated Fire Hydrants prior to installation.

Elevation Datum is City of Detroit Datum.

Pipe shall have Bell and Spigot Joints designed for sealing with a Rubber Gasket such as "Tyton" Super Bell Tight, or approved equal except that Line Valves, Hydrant Connections and Hydrant Nipples shall have leaded joints. (See Specifications)

The Drawings indicate the arrangement, general design and extent of the Water Main alterations. The Mains and connections are shown, more or less in diagram and in their general locations, except where in certain cases the Drawings may include details giving the exact location and arrangement. Due to the small scale of the Drawings it is not possible to indicate all offsets, fittings, valves and accessories that are required. The Contractor shall carefully investigate the structural and other conditions affecting all the work and shall arrange and perform his work under this Contract accordingly, furnishing and installing such items of material as may be required to meet such conditions.

In compliance with Public Act 53 of the State of Michigan (Effective Aug. 1, 1974), the Contractor shall notify in advance of construction all public and private owners having existing facilities in or near the immediate working area. For convenience, the known utility owners are listed on this sheet. This listing does not, however, relieve the Contractor of the responsibility of verifying utility locations and notifying all utility owners and Miss Dig (Phone 462-7171 in Area Code 800).

The Detroit Edison Co. Mich. Consolidated Gas Co. Public Lighting Comm.  
 2000 Second Ave. One Woodward Ave. 7500 Joseph Campau  
 Detroit, Mich. 48226 Street Department 10th Fl. Detroit, Mich. 48221  
 Overhead 644-3040 Detroit Mich. 48226 Phone 353-9942  
 Underground 982-2100 Phone 963-2430

DESIGNED BY	
DRAWN BY	W. J. H.
CHECKED BY	J. J. W.
ENGINEER - WASTEWATER SYSTEM	7-21-76
APPROVED	
HEAD, ENGINEER-WATER SYSTEM	
DIVISION ENGINEER - D.W.S.D.	

**CONSTRUCTION NOTES**

All Water Main work performed by the Contractor shall require inspection by the D.W.S.D.

Encasements and Thrust Blocks shall be poured against undisturbed earth. Bottom 3" of Encasement may be poured separate from Encasement and used as a sub-footing.

All Encasements and Thrust Blocks shall terminate at the face of pipe bells.

Removal of abandoned Water Mains as required for clearance to construct the proposed Water Mains shall be done by the contractor.

The Contractor shall expose existing Water Mains at points of connection and verify their location prior to pipe laying, so that minimum work will be required.

Thrust Blocks will be required at all bends greater than 1 1/4° for C.I. or D.I. Water Mains. Vertical Thrust Blocks for all top bends will require reinforcing steel.

Contractor shall construct all Concrete Thrust Blocks and Gate Wells.

The Contractor shall perform the work required to connect or disconnect water mains at junctions with the existing system which is to remain in service, except as otherwise shown. Valve operations, installation of Hydrants, connecting to existing, or new Water Mains, shall be included in the Contractor's Work. Flushing and chlorination will be included in D.W.S.D. work. The Contractor shall perform all other work in conjunction with D.W.S.D. work. Contractor's work includes Earth Excavation, Disposal, Backfill, Sheet Piling, Pumping and Drainage required for maintenance of trench and for disposal of waste water; Barricades, Traffic Control, Material Handling and Standby assistance (including crane work required); Pavement Removal and Replacement; Thrust Blocks Encasements and Gate Wells.

The Contractor shall cut and cap or plug existing Water Mains to remain in service where required.

All 4" C.I. Blow-off Assemblies, C.I. Plugs and Caps to be installed and/or removed by Contractor have not been shown on the drawings.

The Contractor shall remove all temporary C.I. Plugs, Tees and Blow-off Assemblies at points of water main connections unless otherwise specified.

The Contractor shall install all Pipe and Fittings necessary to complete the connections shown.

Proposed construction work by other Utility Companies, as shown on these drawings, is in accordance with information supplied by the Utility Company. The D.W.S.D. does not guarantee the completeness or accuracy of locations of Proposed Utility Work by others. The Contractor shall make his own investigation regarding such work.

Outline of demolished, building structures as shown on the drawings are based on the best available information. We do not guarantee that these or other underground structures are or are not present.

Existing Water Mains to be cut and abandoned for new Water Main construction shall be bulkheaded with a minimum 8" thickness of concrete or brick masonry in place. This work shall be considered as incidental to the Water Main alteration work.

All Hydrant alterations involved shall be done by the Contractor in accordance with D.W.S.D. Standards and Specifications and D.F.D. requirements. Hydrant Removal work shall be considered as incidental to the Water Main alteration work.

See "Standard Specifications for Paving and Related Construction" dated January, 1974, as Amended, and "Specifications for Paving Replacement and Isolated and Continuous Cuts in Detroit Streets Under City of Detroit Jurisdiction", dated September, 1971.

JEFFERSON CHALMERS, N.D.P. AREA	
WATER SYSTEM ALTERATIONS	
DICKERSON - JEFFERSON TO ESSEX	
PROPOSED 12-INCH WATER MAIN	
SCALE AS SHOWN	
JULY, 1978	
SECTION MAP	
25 L 25 K	
TOWN	
WABE	
SECTION	
POSITION CODE	
WORK ORDER NO.	D-195
DRAWING NO.	SHEET 1 OF 7

WATER SYSTEM ALTERATION QUANTITIES	
DESCRIPTION OF ITEM	QUANTITIES AND PAY UNIT
8-inch Ductile Iron Water Main	2643 Lin. ft.
8-inch Gate Valve	2 each
8-inch Gate Valve Well	4 each
6-inch Fire Hydrant (Including 6-inch Gate Valve, Gate Box & Related Piping)	7 each
24"x8" Tapping Valve	2 each
6-inch Ductile Iron Water Main	27 Lin. ft.
6-inch Gate Valve	2 each
6-inch Gate Valve Well	2 each

Exist. gate Wells on Water Mains to be Abandoned shall be broken down to an elevation of 2 feet below the existing grade or as elsewhere to an elevation of 1 foot below the existing grade, and directed by the Engineer and/or Jurisdiction Authority. This includes the removal of frame and cover which shall become the property of the Contractor.

The gate Well shall then be backfilled in the same manner as specified for the Water Main trench. The surface shall be restored in kind to the surrounding area to the satisfaction of the Engineer and Jurisdiction Area.

The above work required to abandon a gate Well shall be considered as incidental to the Water Main alteration work.

**LEGEND**

- New Water Main under 24" 24" and over
- Existing Water Main under 24" 24" and over
- New Water Main Connection Water Mains to be abandoned New Gate Valve and Well Existing Gate Valve and Well New Hydrant or relocated Hydrant Existing Hydrant Existing Sewer or Drain under 24" 24" and over
- Gas Main Telephone or Telegraph Conduit or Underground Cable Electric Power Conduit or Underground Cable Petroleum Products Line Steam Line Trees Utility Pole Size Owner Boulevard Light Police or Fire Alarm Box 0 R.B. Traffic Signal 0 F.B. Mail Box, Parking Meter, or small sign Large Sign Gas Stop or Drip Catch Basin Sewer Manhole Existing Proposed Pole Anchor Existing Proposed Elevation Control Monument Existing Ditch Section Line Freeway Right of Way Line Fence Existing Proposed Concrete Sidewalk Existing Proposed X B.M. Existing Proposed X B.M.

- DM.S.D. - Inspection Job No., D-195-1
- DM.S.D. - Chlorination Job No., D-195-2
- DM.S.D. - Construction Job No., D-195-3

**CITY OF DETROIT**  
**WATER AND SEWERAGE DEPARTMENT**  
 ENGINEERING DIVISION



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Elevation Datum is City of Detroit Datum.

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The Drawings indicate the arrangement, general design and extent of the Water Main alterations. The Mains and connections are shown, more or less in diagram and in their general locations, except where in certain cases the Drawings may include details giving the exact location and arrangement. Due to the small scale of the Drawings, it is not possible to indicate all offsets, fittings, valves and accessories that are required. The Contractor shall carefully investigate the structural and other conditions affecting all the work and shall arrange and perform his work under this Contract accordingly, furnishing and installing such items of material as may be required to meet such conditions.

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The Detroit Edison Co. Mich. Bell Telephone Co. Public Lighting Comm.  
 2000 Second Ave. One Woodward Ave. 7500 Joseph Campau  
 Detroit, Mich. 48226 Street Department, 10th. Fl. Detroit, Mich. 48211  
 Overhead 844-3040 Phone 965-2450 Phone 353-9942 Phone 875-0972  
 Underground 962-2100 Phone 965-2450

DESIGNED BY J.M.	APPROVED
DRAWN BY W. HURT	
CHECKED BY J.M. TDR	3/12/80
ENGINEER - WATER SYSTEM	
ENGINEER - WASTEWATER SYSTEM	
DATE	
APPROV. DATE	

**CONSTRUCTION NOTES**

All Water Main work performed by the Contractor shall require inspection by the D.W.S.D.

Encasements and Thrust Blocks shall be poured against undisturbed earth. Bottom 3' of Encasement may be poured separate from Encasement and used as a sub-footing.

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Thrust Blocks will be required at all bends greater than 11 1/4° for C.I. or D.I. Water Mains. Vertical Thrust Blocks for all top bends will require reinforcing steel.

Contractor shall construct all Concrete Thrust Blocks and Gate Wells.

The Contractor shall perform the work required to connect or disconnect water mains at junctions with the existing system which is to remain in service, except as otherwise shown. Valve operations, installation of Hydrants connecting to existing or new Water Mains, shall be included in the Contractor's Work. Flushing and chlorination will be included in D.W.S.D. work. The Contractor shall perform all other work in conjunction with D.W.S.D. work. Contractor's work includes Earth Excavation, Disposal, Backfill, Sheet Piling, Pumping and Drainage required for maintenance of trench and for disposal of waste water; Barricades, Traffic Control, Material Handling and Standby assistance (including crane work required), Pavement Removal and Replacement; Thrust Blocks Encasements and Gate Wells.

The Contractor shall cut and cap or plug existing Water Mains to remain in service where required.

All 4" C.I. Blow-off Assemblies, C.I. Plugs and Caps to be installed and/or removed by Contractor have not been shown on the drawings.

The Contractor shall remove all temporary C.I. Plugs, Tees and Blow-off Assemblies at points of water main connections unless otherwise specified.

The Contractor shall install all Pipe and Fittings necessary to complete the connections shown.

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Outline of demolished building structures as shown on the drawings are based on the best available information. We do not guarantee that these or other underground structures are or are not present.

Existing Water Mains to be cut and abandoned for new Water Main construction shall be bulkheaded with a minimum 8" thickness of concrete or brick masonry in place.

Exist gate Wells on Water Mains to be abandoned shall be broken down to an elevation of 2 feet below pavement surfaces and elsewhere to an elevation of 1 foot below the existing grade or as directed by the Engineer and/or Jurisdiction Authority. This includes the removal of frame and cover which shall become the property of the Contractor.

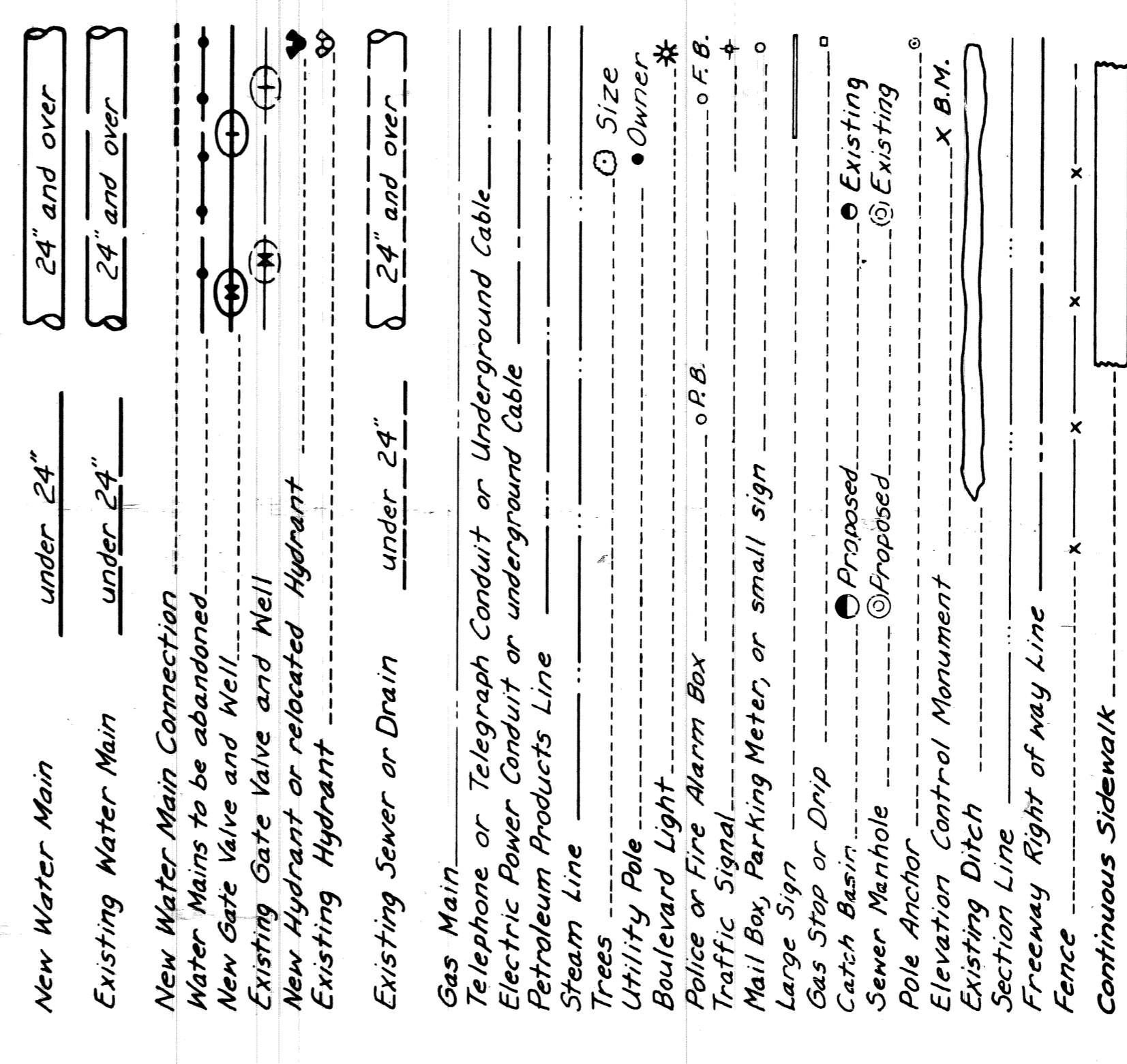
The gate Well shall then be backfilled in the same manner as specified for the Water Main trench. The surface shall be restored in kind to the surrounding area to the satisfaction of the Engineer and Jurisdiction Area.

The above work required to abandon a gate Well shall be considered as incidental to the Water Main alteration work.

WATER SYSTEM ALTERATION	QUANTITIES
DESCRIPTION OF ITEM	AND PAY UNIT
8-Inch Ductile Iron Water Main	985 lin. ft.
8-Inch Gate Valve	2 each (-Relocated)
8-Inch Gate Valve Well	2 each
6-Inch Ductile Iron Water Main	20 lin. ft.
6-Inch Gate Valve	1 each
6-Inch Gate Valve Well	1 each
6-Inch Fire Hydrant (Including Gate Valve, Box and Related Piping)	2 each - Relocated

All Hydrant alterations involved shall be done by the Contractor in accordance with D.W.S.D. Standards and Specifications and D.F.D. requirements. Hydrant removal work shall be considered as incidental to the Water Main alteration work.  
 See Standard Specifications for Paving Related Construction dated January, 1974 as Amended, and Specifications for Paving Replacement and Isolated and Continuous Cuts in Detroit Streets Under City of Detroit Jurisdiction, dated September, 1971

**LEGEND**



**CITY OF DETROIT**  
**WATER AND SEWERAGE DEPARTMENT**  
 ENGINEERING DIVISION

JEFFERSON CHALMERS N.D.P. AREA  
 WATER SYSTEM ALTERATIONS  
 GENERAL NOTES AND QUANTITIES

SCALE NONE

FEBRUARY, 1980 DATE

SECTION MAP TOWN RANGE SECTION POSITION CODE WORK ORDER NO. SHEET 1 OF 4

D-226

CONTRACT NO.

FED. REF. NO.

M.D.P.H. PERMIT NO.

SUPPLEMENTAL 13A



