



City of Detroit
Inter-Departmental Communication

TO: Richard Doherty, City Engineer
City Engineering/Department of Public Works

FROM: Debra Singleton, Engineer
Detroit Water and Sewerage Department

DATE: March 21, 2019

RE: Petition No. 742
Requested Outright vacation of St. Jean and portions of (Canfield, Vernor, Charlevoix, and Goethe) in the area bound by Mack, Kerchaval, Gladwin, and Beniteau

The Detroit Water and Sewerage Department (DWSD) is in receipt of the subject petition. There are water mains and sewers located in the requested outright vacations. DWSD has no objections to the requested vacations provided that the following conditions are met:

- The sewers and water mains service no other properties and only service the properties owned by the Petitioner, if not the Petitioner must prepare relocation plans for the sewers and water mains signed by a Registered Engineer, DWSD approves the relocation plans, and the Petitioner grants a satisfactory easement for the relocated sewers and water mains. The Petitioner is to bear the entire cost of the proposed relocation plans, including construction, demolition, permitting, inspection, survey, etc.
- If DWSD is to maintain ownership of any of the existing water mains and sewers satisfactory easements must be granted by the Petitioner.

The entire work is to be performed in accordance with DWSD specifications and standards, all of the fees are to be deposited with DWSD in advance, to cover the necessary costs of permits and inspection.

If you have any questions, please feel free to call me at (313) 267-8309 or Mohammed Fa Siddique at (313) 964-9245.

Sincerely,

Debra Singleton
Engineer Permits Section

DS/MS/gl
Attachments
CC::Mohamad Farhart, CSF

City of Detroit
**City Engineering Division, Department of Public Works
Survey Bureau**

NOTICE OF PROPOSED CHANGE IN PROPERTY

Date: 03/12/2019

Petition: x742

- | | |
|--|---|
| <input type="checkbox"/> AT&T Telecommunication | <input type="checkbox"/> Berm Use |
| <input type="checkbox"/> Comcast Television (CATV) | <input type="checkbox"/> Conversion to Easement |
| <input type="checkbox"/> Detroit Edison (DTE) | <input type="checkbox"/> Dedication |
| <input type="checkbox"/> Fire Department | <input type="checkbox"/> Encroachment |
| <input type="checkbox"/> Great Lakes Water Authority | <input checked="" type="checkbox"/> Outright Vacation |
| <input type="checkbox"/> Land Bank Authority | <input type="checkbox"/> Temporary Closing |
| <input type="checkbox"/> Michcon (DTE) | |
| <input type="checkbox"/> Planning & Development Department | |
| <input type="checkbox"/> Public Lighting Authority | |
| <input type="checkbox"/> Public Lighting Department | |
| <input type="checkbox"/> Police Department | |
| <input type="checkbox"/> Solid Waste Division, DPW | |
| <input type="checkbox"/> Street Design Bureau, DPW | |
| <input type="checkbox"/> Street Maintenance Division, DPW | |
| <input type="checkbox"/> Traffic Engineering Division, DPW | |
| <input type="checkbox"/> Water and Sewerage Department | |
| <input type="checkbox"/> _____ | |

A petition drawing is attached. Property shown on the attached print is proposed to be changed as indicated. Kindly report (using the back of this sheet) the nature of your services, if any affected by the proposed change and the estimated costs of removing and rerouting such services (if necessary).

Please return one copy to City Engineering Division, DPW within two weeks of the submittal date. Retain one copy and print for you file.

Ron Brundidge, Director, Department of Public Works

By: Richard Doherty, CED DPW
City Engineer

**TO: City Engineering Division, DPW
2 Woodward Ave., Suite 642
Detroit, Michigan 48226-3462
Survey Bureau: 313-224-3970**

Petition: x742

The proposed change in property (referred to on the other side of this sheet) would affect our services as follows:

- Not Involved

- Involved; but asking you to hold action on this petition until further notice.

- Involved; but no objections to the property change.

- Involved; objection to the property change.

- Involved; but no objections to the property change...provided as easement of the full width of the public right-of-way (street, alley or other public place) is reserved.

- Involved; the nature of our services and the estimated costs of removing and/or rerouting such services are:

(Utility or City Department)

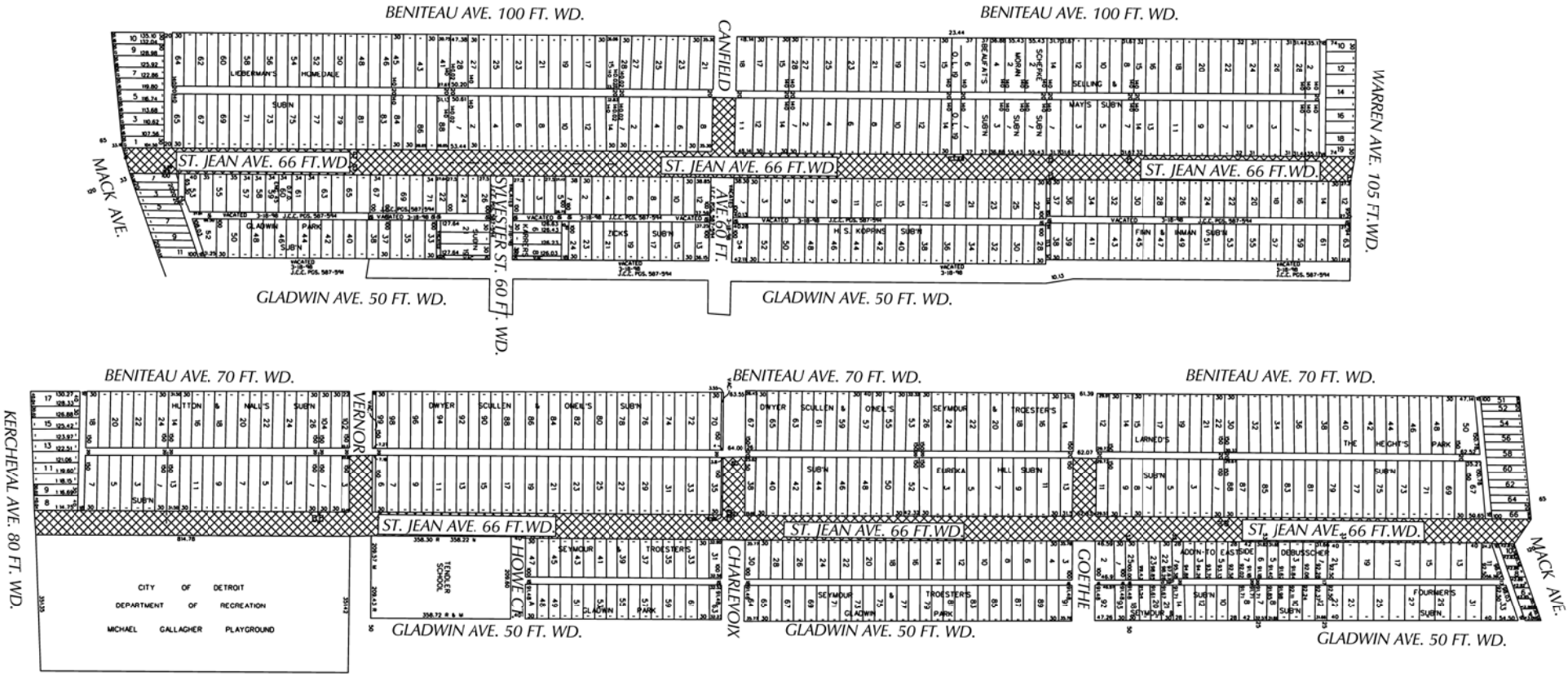
By

Title

Date

Area code – Telephone number

PETITION NO. 742
 DPW - CITY ENGINEERING
 COLEMAN A. YOUNG MUNICIPAL CENTER
 DETROIT, MICHIGAN 48226
 KEITH MCCRARY
 PHONE NO. (313) 224-3970



- OUTRIGHT VACATION

(FOR OFFICE USE ONLY)

CARTO
 55A & 55F & 56A & 56F

B				
A				
DESCRIPTION	DRAWN	CHECKED	APPD	DATE
REVISIONS				
DRAWN BY	SA	CHECKED	KSM	
DATE	03-12-19	APPROVED		

REQUEST TO OUTRIGHT VACATE
 - ST JEAN FROM THE SOUTH LINE OF E. WARREN AVE. TO THE NORTH LINE OF MACK AVE.
 - ST. JEAN FROM THE SOUTH LINE OF MACK AVE. TO THE NORTH LINE OF KERCHEVAL ST.
 - CANFIELD ST. FROM THE EAST LINE OF ST. JEAN TO THE EAST LINE OF THE FIRST NORTH-SOUTH ALLEY WEST OF ST. JEAN.
 - GOETHE AVE. FROM THE EAST LINE OF ST. JEAN TO THE EAST LINE OF THE FIRST NORTH-SOUTH ALLEY WEST OF ST. JEAN.
 - CHARLEVOIX ST. FROM THE EAST LINE OF ST. JEAN TO THE EAST LINE OF THE FIRST NORTH-SOUTH ALLEY WEST OF ST. JEAN.
 - E. VERNOR HWY. FROM THE EAST LINE OF ST. JEAN TO THE EAST LINE OF THE FIRST NORTH-SOUTH ALLEY WEST OF ST. JEAN.

CITY OF DETROIT CITY ENGINEERING DEPARTMENT SURVEY BUREAU	
JOB NO.	01-01
DRWG. NO.	X 742

Detroit Water & Sewerage Department
Provisions for Relocation Due to Vacation for Petition No. 742

Provided that the petitioner shall design and construct proposed sewers and or water mains plus make the connections to the existing public sewers and or water mains as required by the Detroit Water and Sewerage Department (DWSD) prior to construction of the proposed sewers and or water mains,

Provided that the plans for the sewers and or water mains shall be prepared by a registered engineer; and further

Provided that DWSD be and is hereby authorized to review the drawings for the proposed sewers and or water mains and to issue permits for the construction of the sewers and or water mains, and further

Provided that the entire work is to be performed in accordance with plans and specifications approved by DWSD and constructed under the inspection and approval of DWSD; and further

Provided that the entire cost of the proposed sewers and or water mains construction, including inspection, survey and engineering shall be borne by the petitioner; and further

Provided that the petitioner shall deposit with DWSD, in advance of engineering, inspection and survey, such amounts as the department deems necessary to cover the costs of these services; and further

Provided that the petitioner shall grant to the City a satisfactory easement for the sewers and or water mains; and further

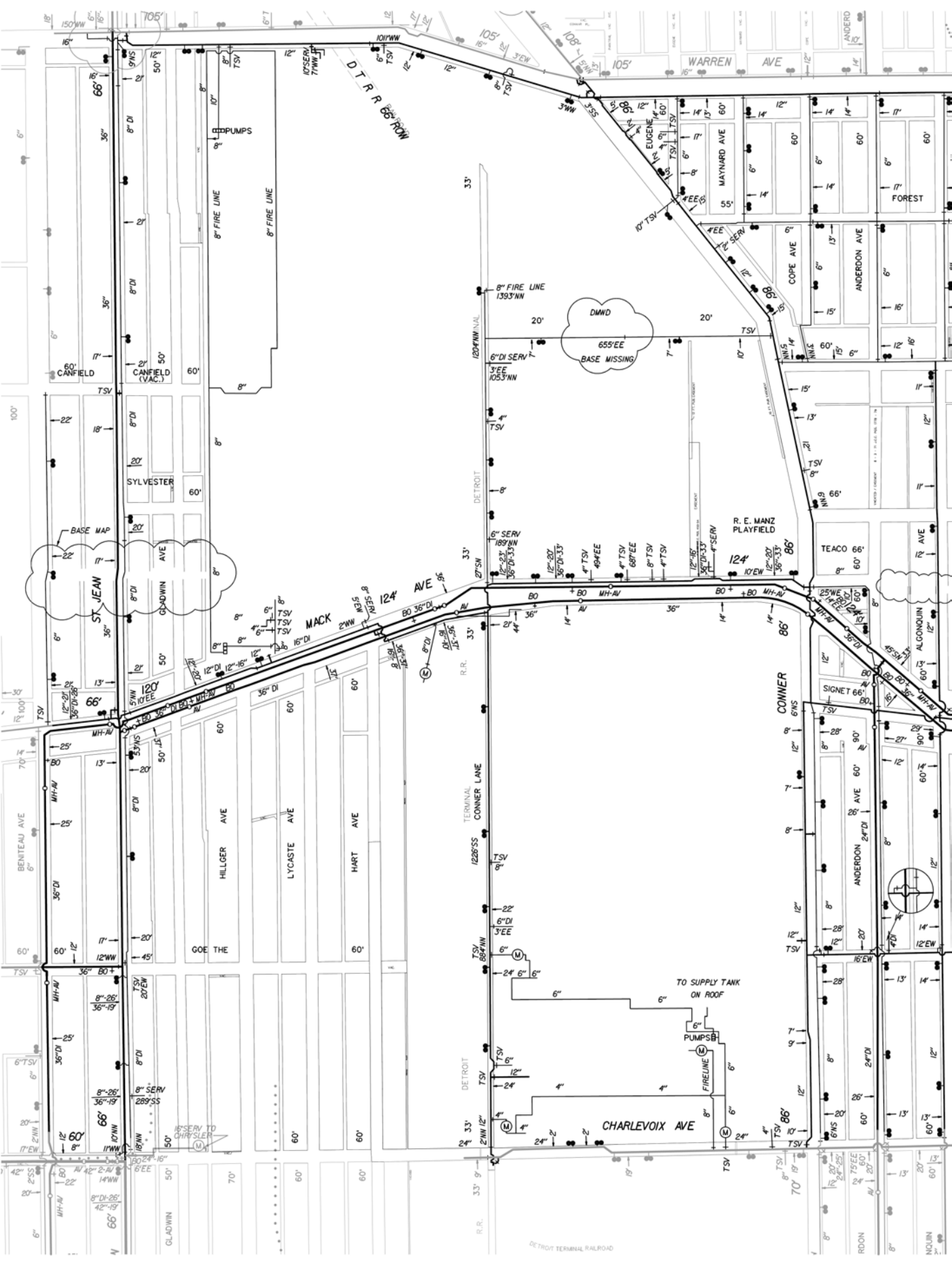
Provided that the Board of Water Commissioners shall accept and execute the easement grant on behalf of the City; and further

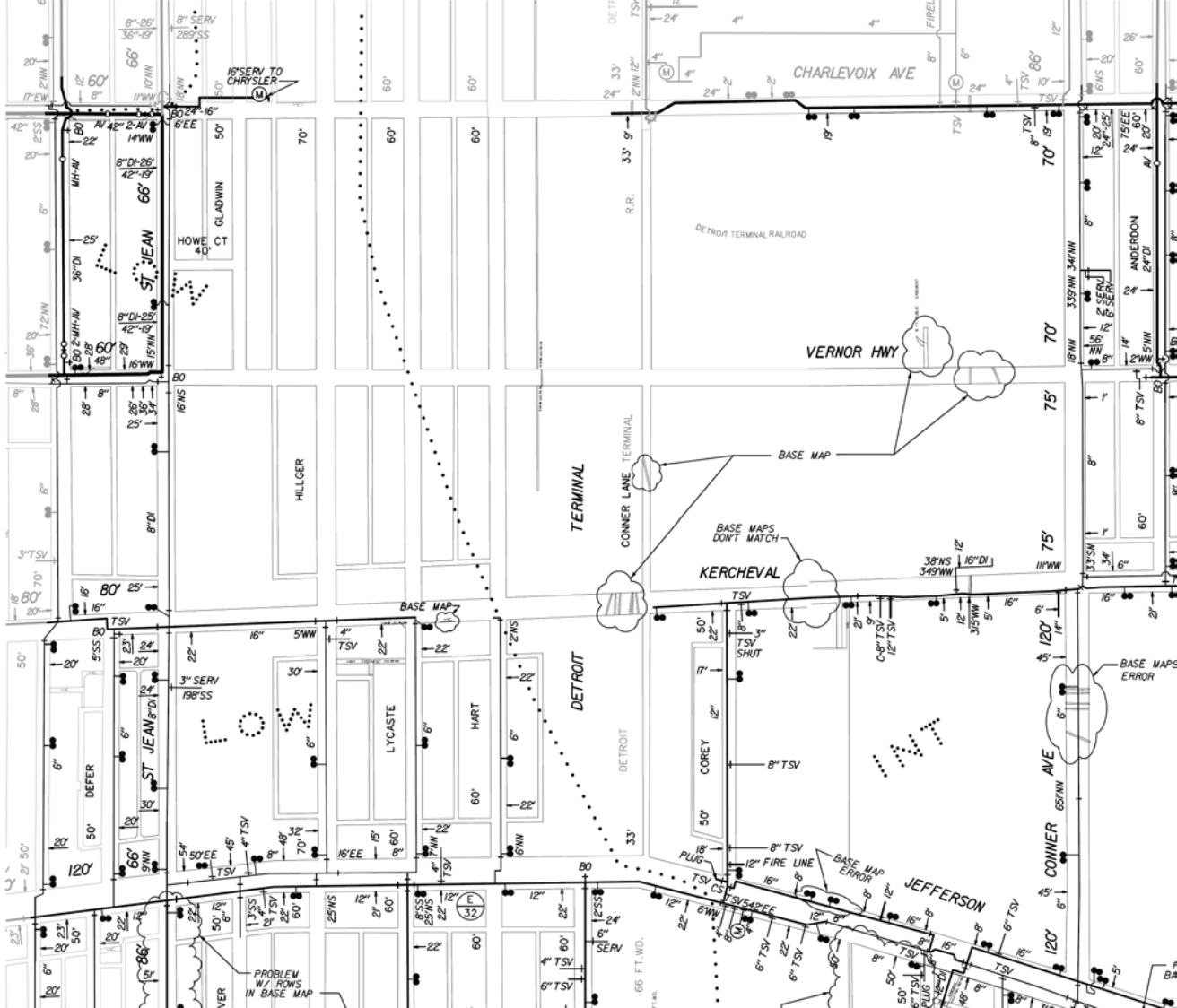
Provided, that the petitioner shall provide DWSD with as -built drawings on the proposed sewers and or water mains; and further

Provided that the petitioner shall provide a one (1) year warranty for the proposed sewers and or water mains; and further

Provided that upon satisfactory completion, the sewers and or water mains shall become City property and become part of the City system. And any existing sewers or water mains that were abandoned shall belong to the petitioner and will no longer be the responsibility of the City.

06/30/14





RESERV TO CHRYSLER

CHARLEVOIX AVE

VERNOR HWY

TERMINAL

CONNER LANE TERMINAL

BASE MAPS DONT MATCH

KERCHEVAL

DETROIT

DETROIT

COREY

JEFFERSON

CONNER AVE

ST. JEAN

LOW

LYCASTE

HART

DEFER

ST. JEAN

PROBLEM W/ ROWS IN BASE MAP

BASE MAP

BASE MAP

BASE MAPS ERROR

32

66 FT. WD.

ANDERSON

GLADWIN

HOWE CT

HILLGER

LYCASTE

HART

DEFER

ST. JEAN

PROBLEM W/ ROWS IN BASE MAP

BASE MAP

BASE MAP

BASE MAPS ERROR

32

66 FT. WD.

ANDERSON

GLADWIN

HOWE CT

HILLGER

LYCASTE

HART

DEFER

ST. JEAN

PROBLEM W/ ROWS IN BASE MAP

BASE MAP

BASE MAP

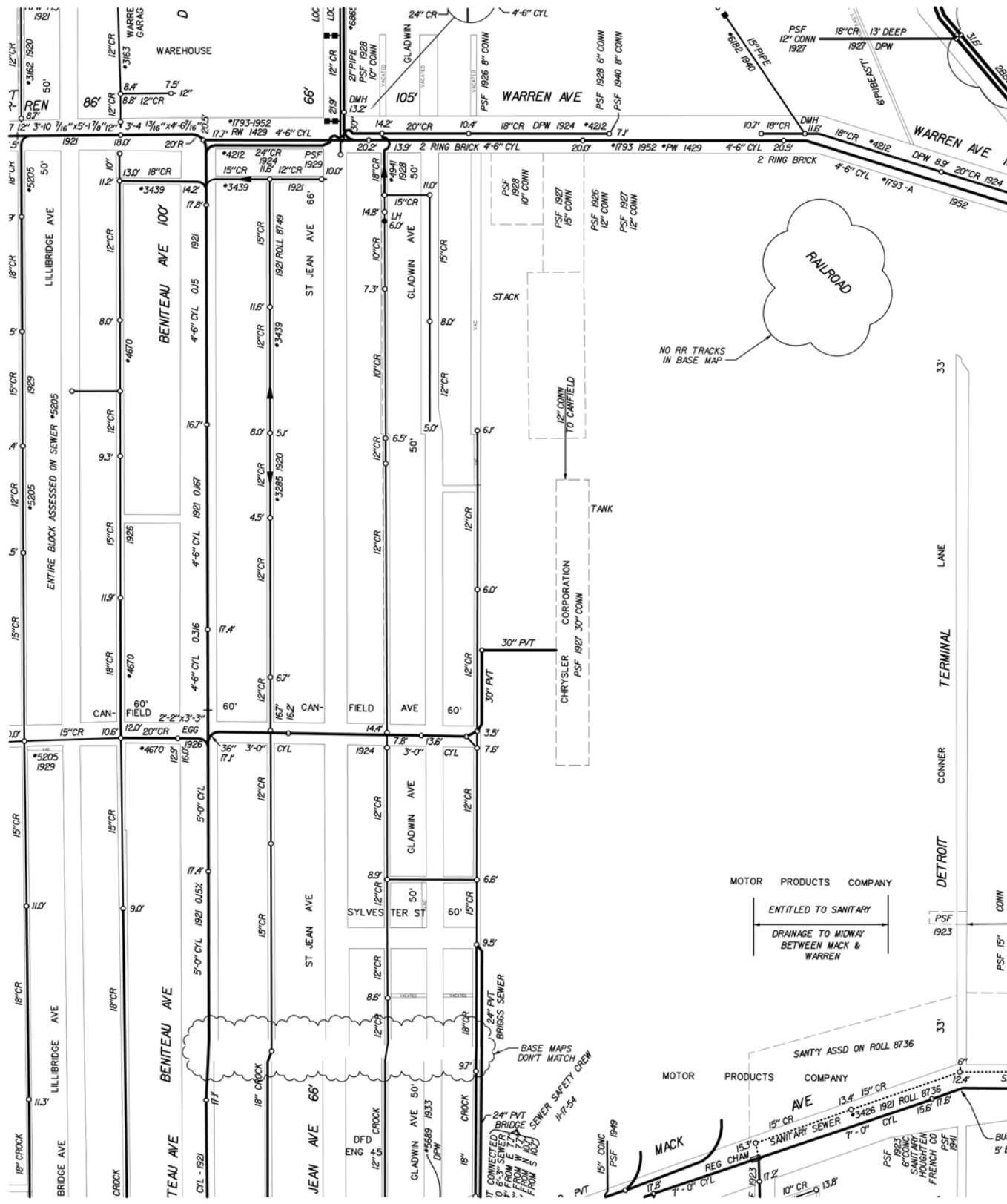
BASE MAPS ERROR

32

66 FT. WD.

ANDERSON





WAREHOUSE

WARREN AVE

WARREN AVE

RAILROAD

NO RR TRACKS
IN BASE MAP

TANK

CHRYSLER CORPORATION
PSF 1927 30\"/>

TERMINAL

CONNER

DETROIT

MOTOR PRODUCTS COMPANY

ENTITLED TO SANITARY

DRAINAGE TO MIDWAY
BETWEEN MACK &
WARREN

PSF 1923

SANTY ASSD ON ROLL 8736

MOTOR PRODUCTS COMPANY

MACK

REG CHAM

PSF 1923
SANITARY
SANTY ASSD
HOUGHTON
FRENCH CO
PSF 1941

BASE MAPS
DONT MATCH

24\"/>

7\"/>

15\"/>

PVT

PSF 1949

PSF 1923

17.2

10\"/>

13.8

5' BUF

5' BUF

PSF 1941

PSF 1941

PSF 1941

PSF 1941

PSF 1941

PSF 1941

PSF 1941

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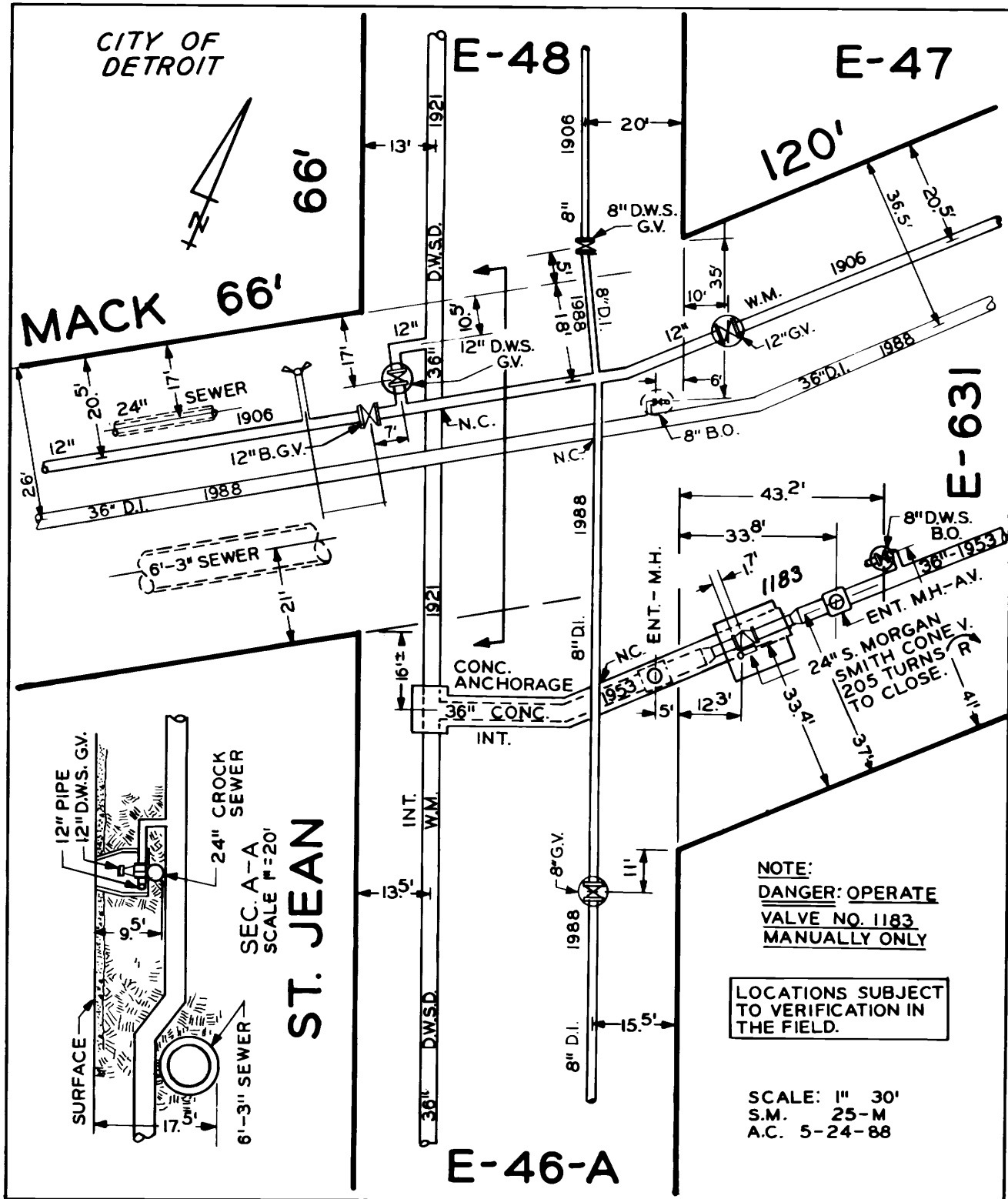
PSF 1941

PSF 1941

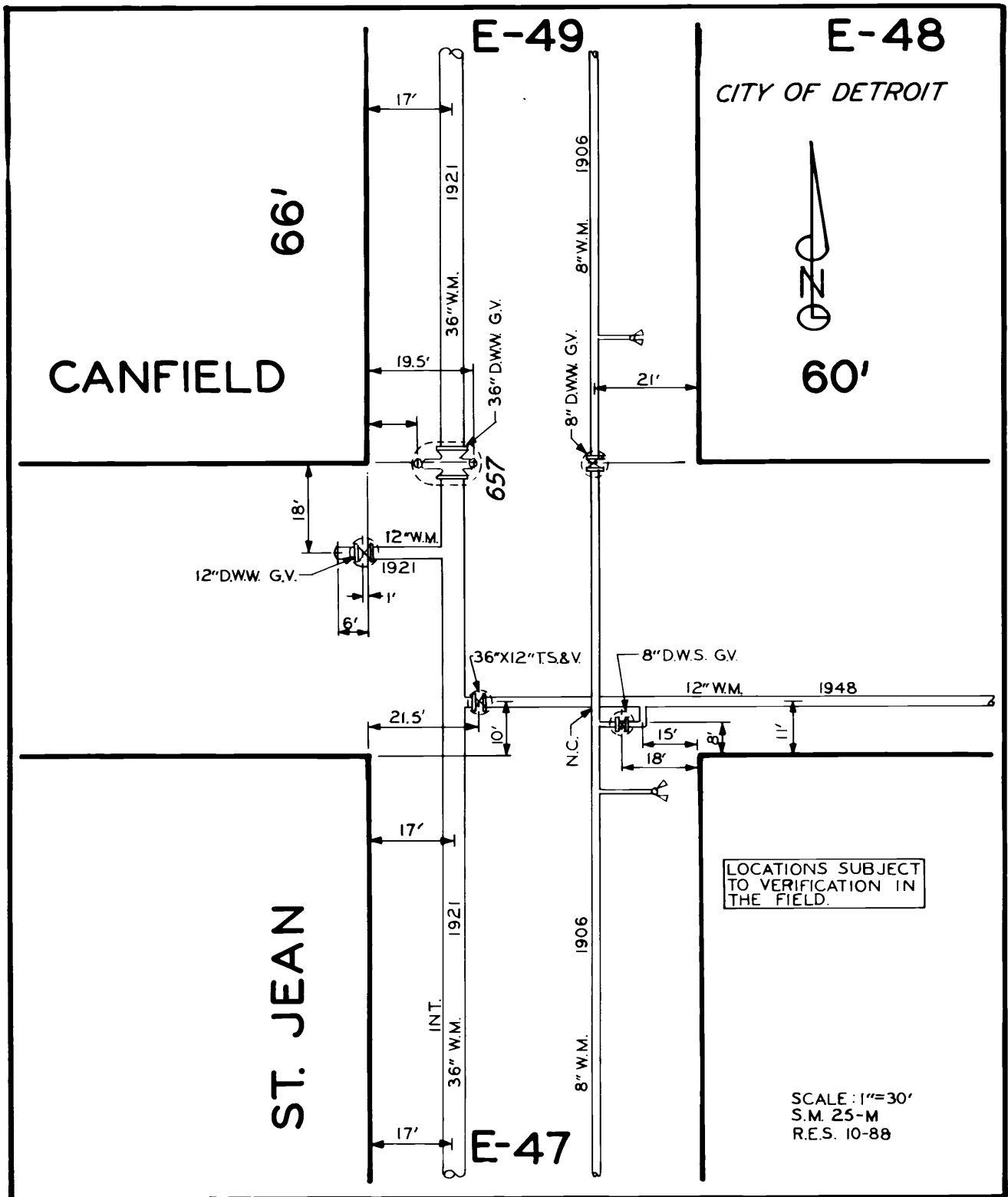
PSF 1941

PSF 1941

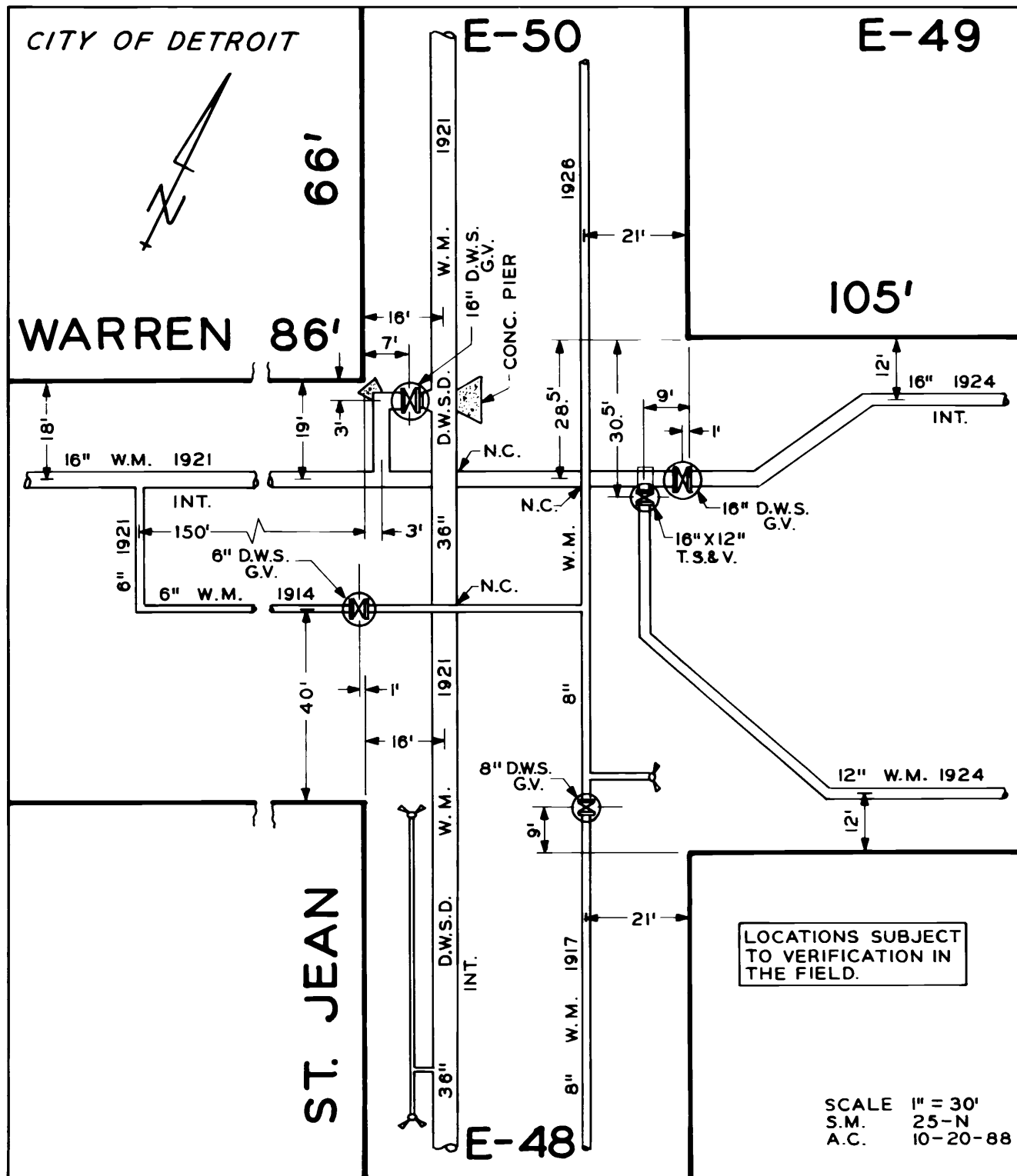
1906-B-17
 1907-E-68
 1950-E-57
 1986-G-17



1921-B-66
 WS-56-2



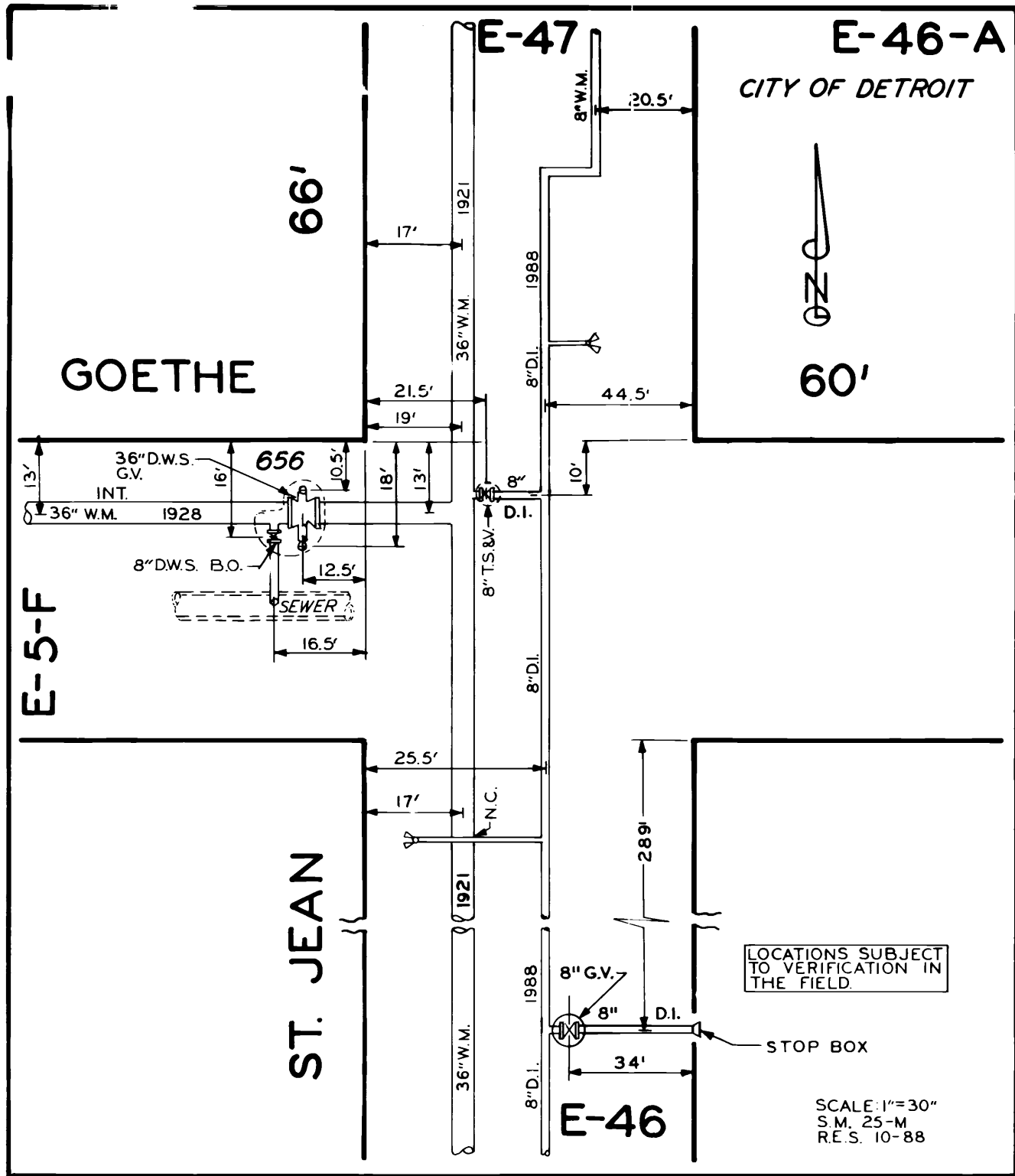
1921-B-35
1922-C-44
1924-Q-53



1921-B-35,78

REDRAW

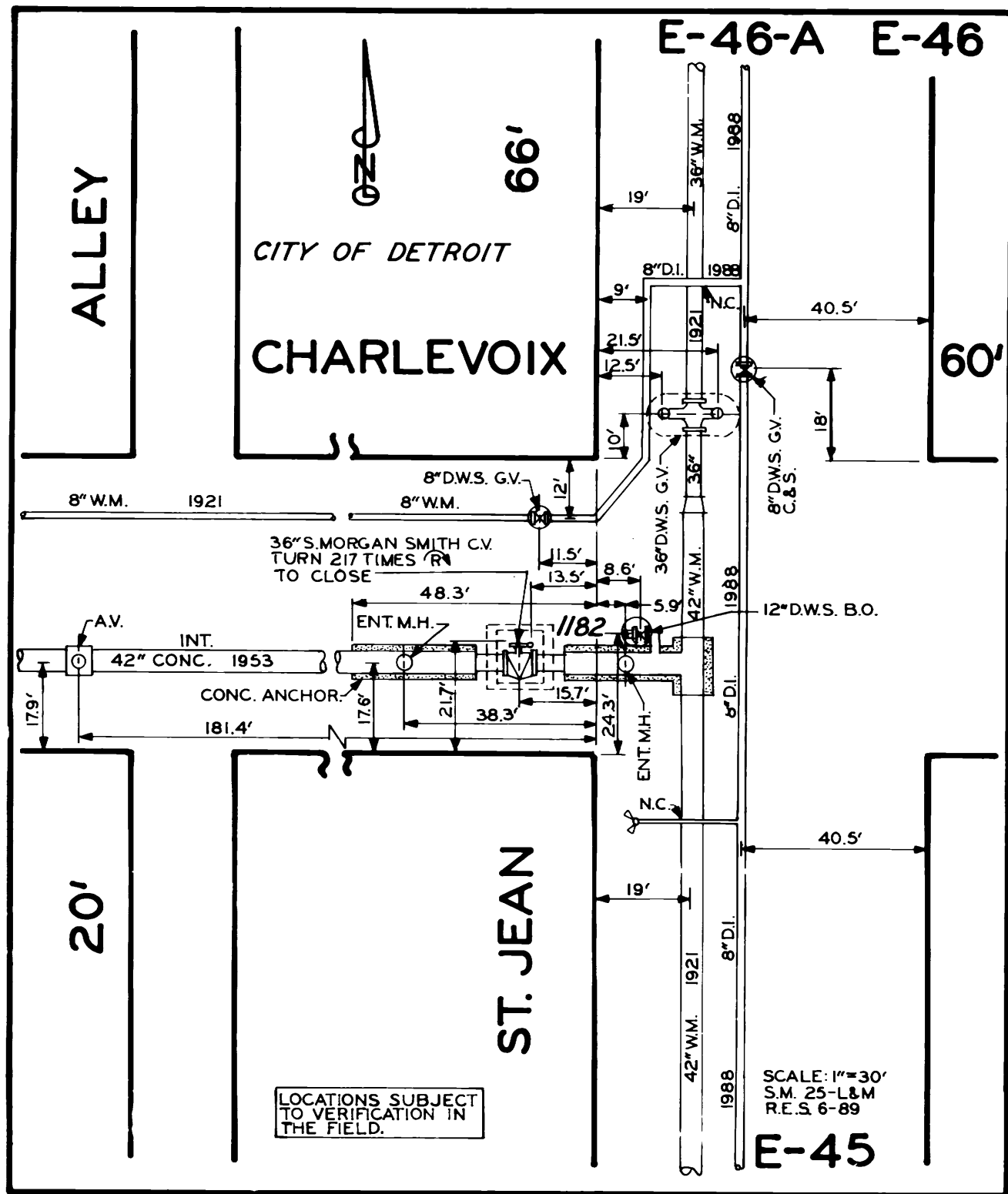
C-37
-G-7
-G-30



1921-B-76
1923-D-18

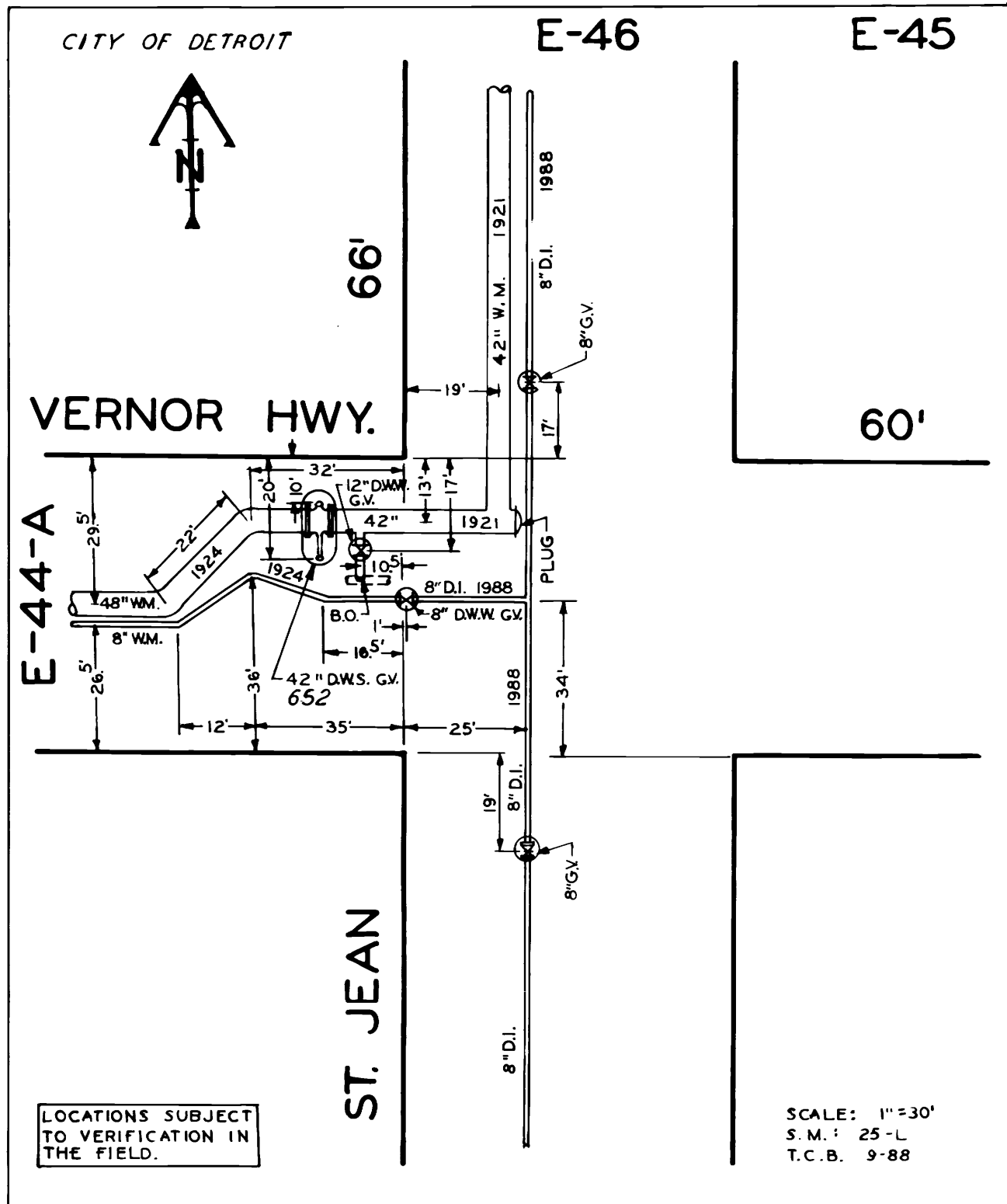
SCALE: 1"=30"
S.M. 25-M
R.E.S. 10-88

1921-C-62
1986-G-15
1987-A-44

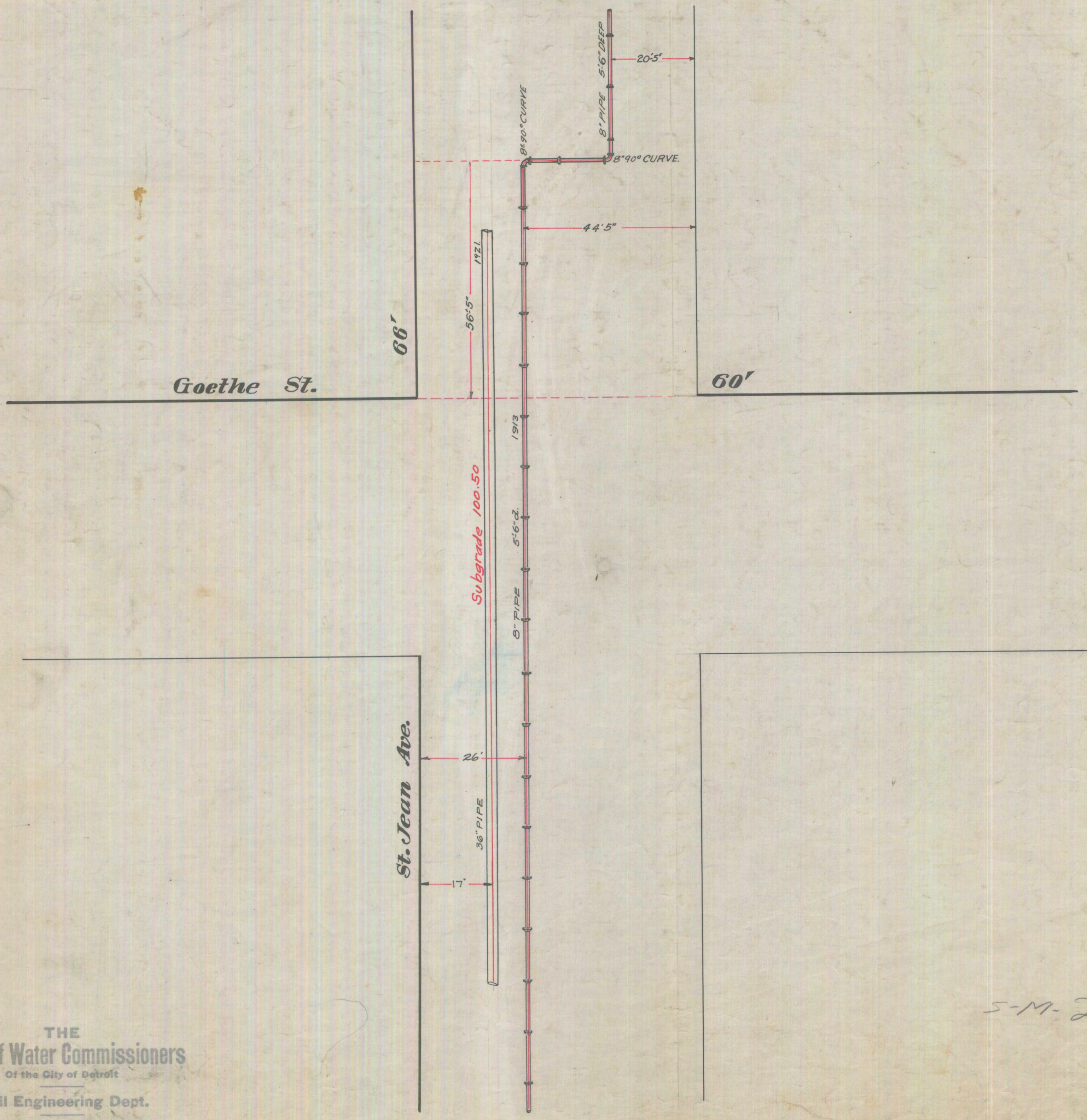


1921-B-14 15 76
WS-57

1909-F-52
1926-J-68
1986-G-13



1921-B-15
1928-B-1
A-3505
1945-A-73

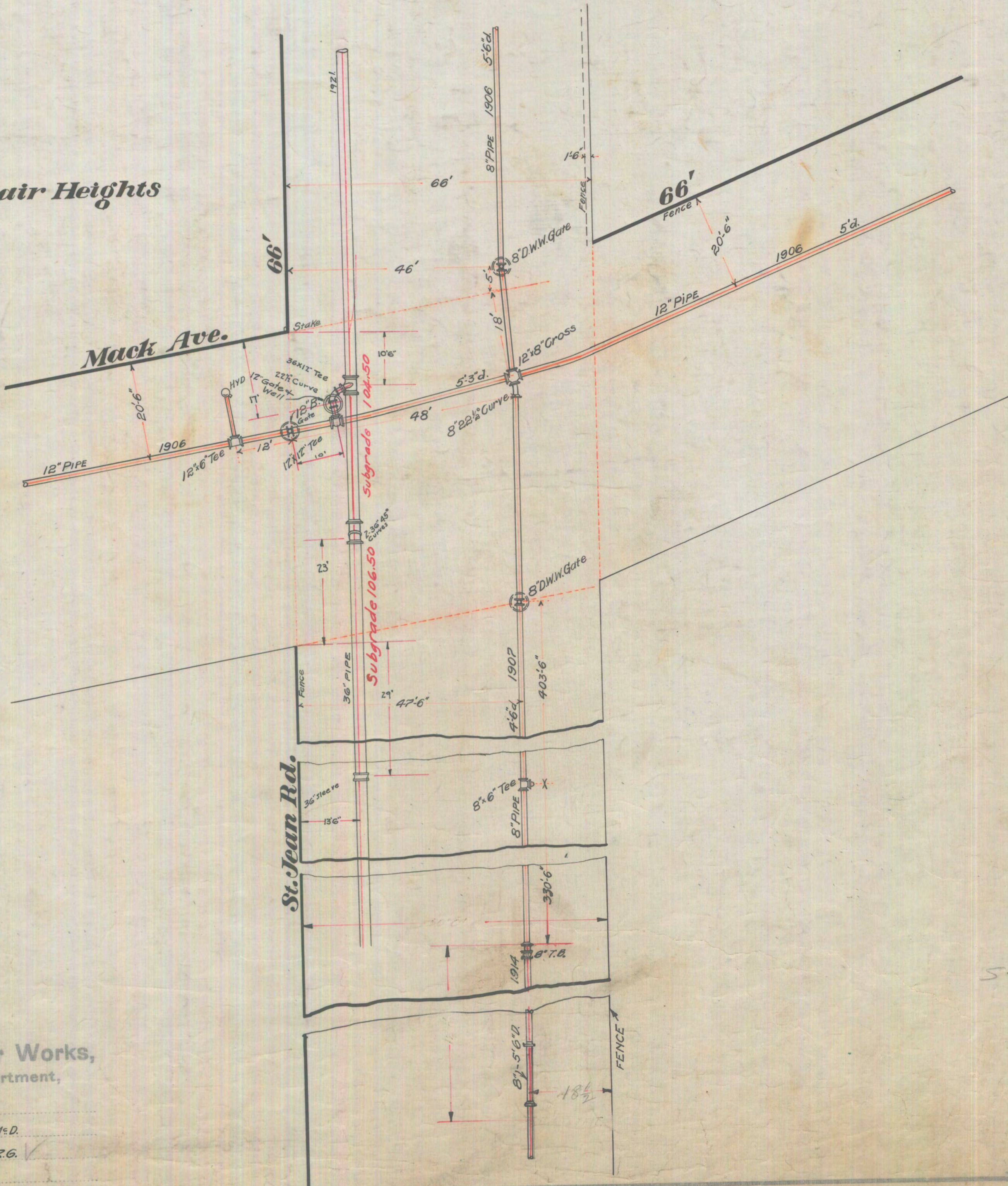


THE
Board of Water Commissioners
Of the City of Detroit
Civil Engineering Dept.

Scale 1"=16' Drawn by *Dalley* Date 1913-9-20
Revised 1-25-15 *B.H.G.* - 7-7-23 - P.C.K.
V.C.W. 2-20-23

S-M-25-M

St. Clair Heights

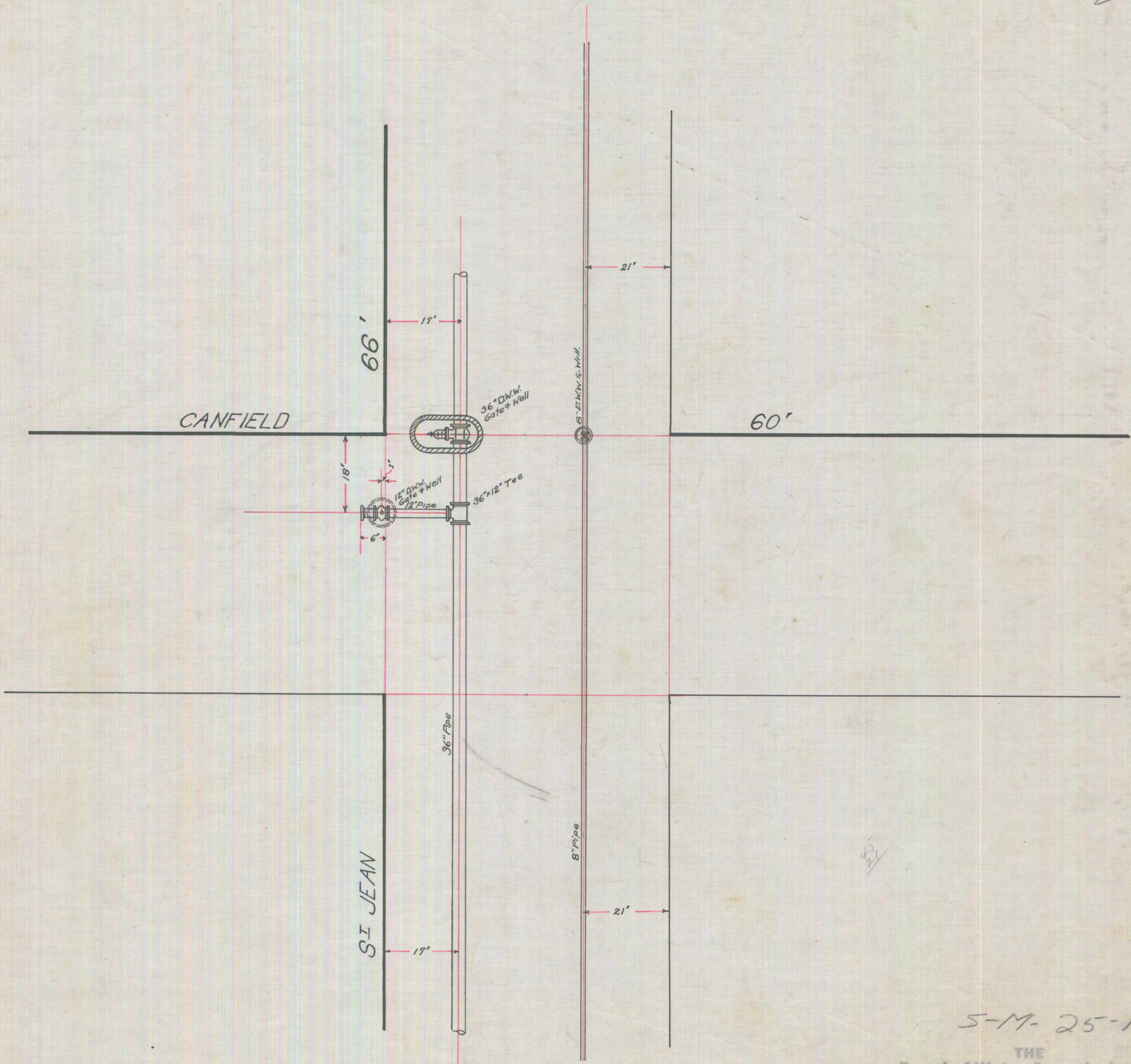


Detroit Water Works,
Civil Eng. Department,

Scale 1"=16'
Drawn 1908 Mar. 9 J.M.C.D.
Revised 1914 JULY 23 Y.R.G.
Checked C.W. 2-20-23

S-M-25-M

70606



S-M-25-N

THE
Board of Water Commissioners
 of the City of Detroit
 Civil Engineering Dept. 70608

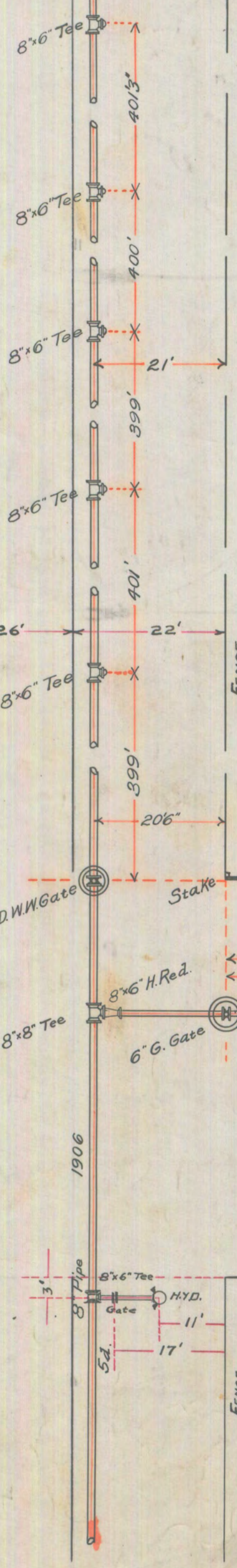
Scale 1"=16'-0" Drawn by H.R.M. Date 4-26-22
 Revised _____

St. Jean Rd. 66'

Subgrade 109.50

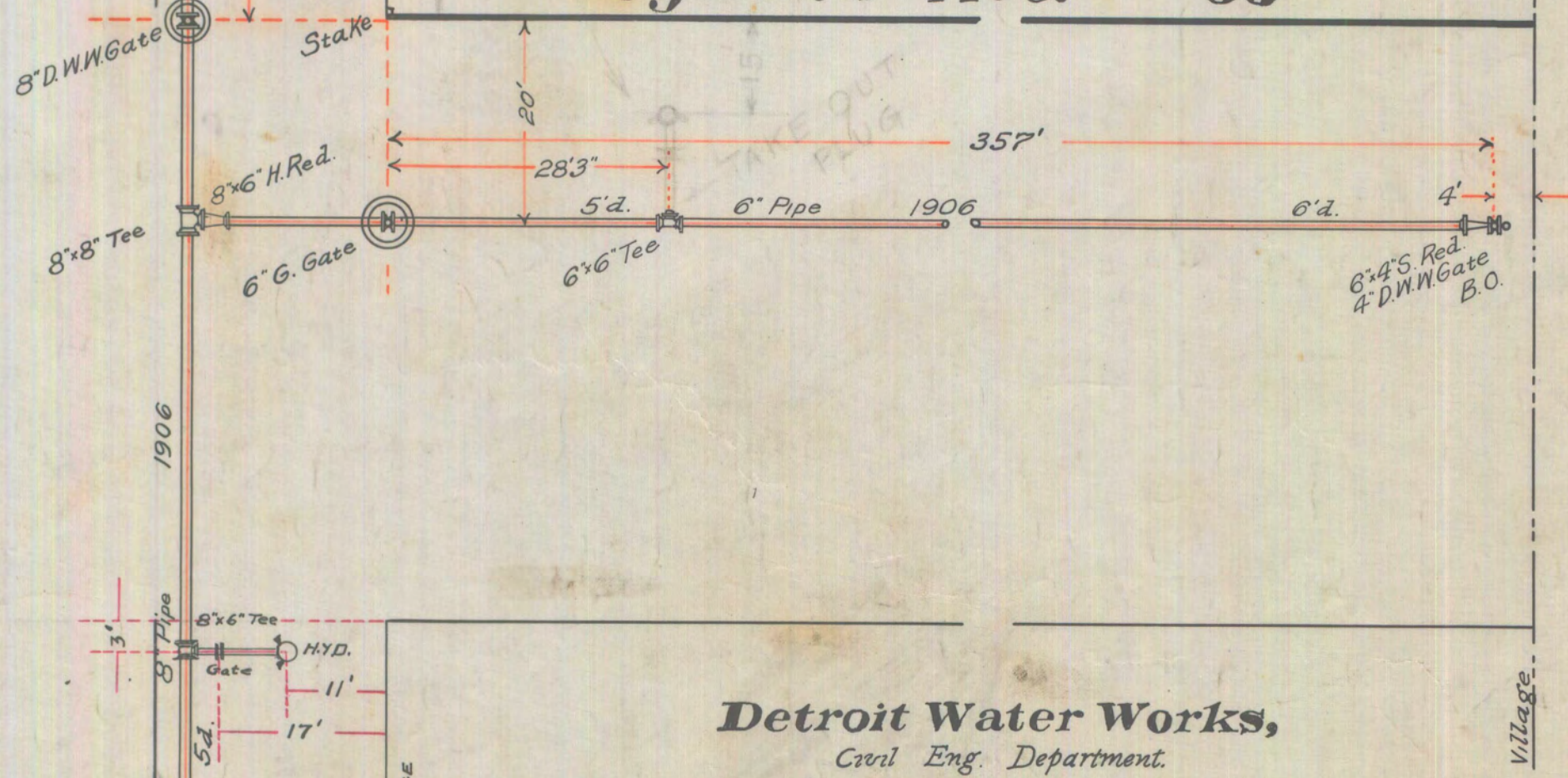
36" PIPE

1921



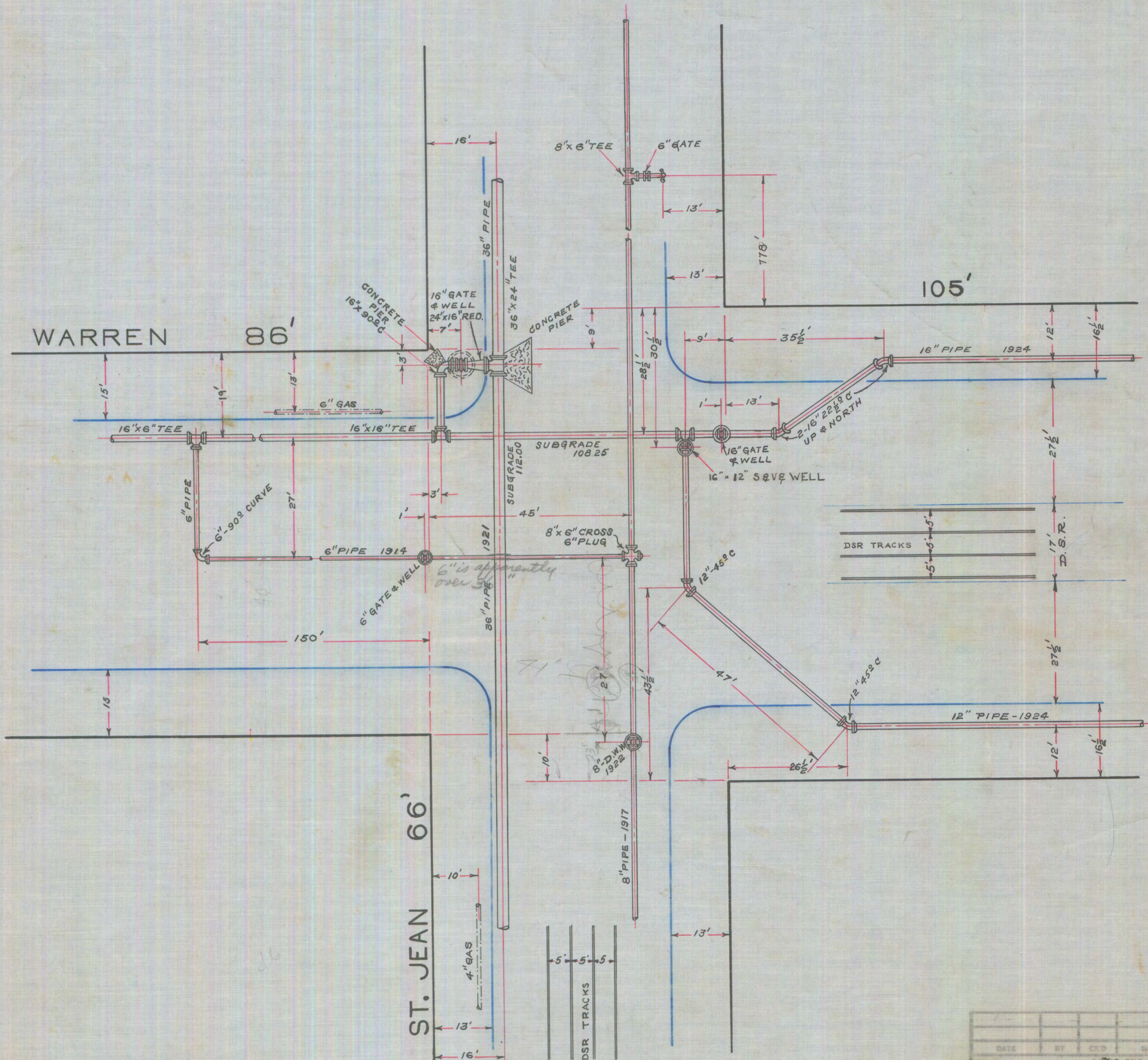
St. Clair Heights

Sylvester Ave. 60'

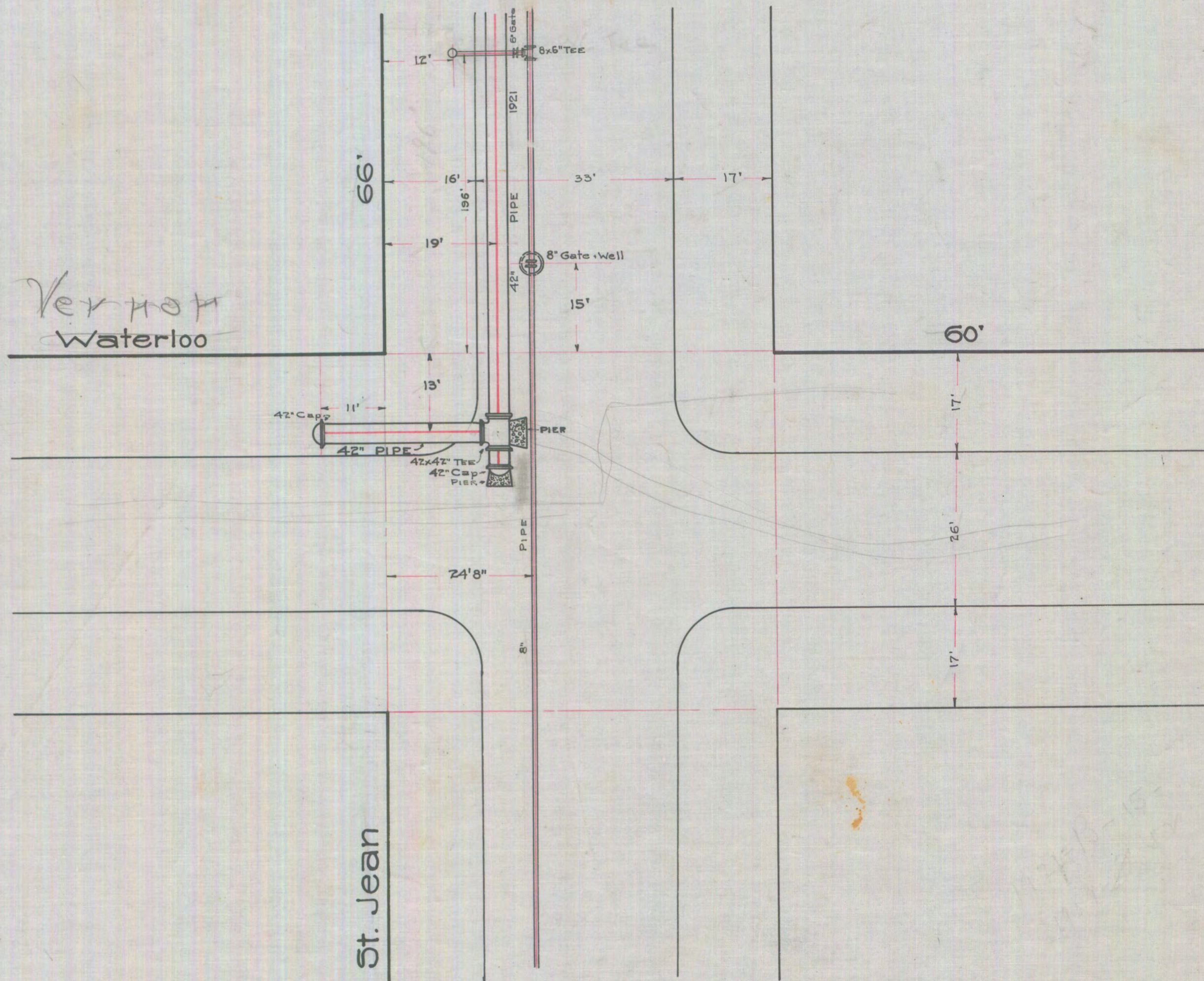


Detroit Water Works,
 Civil Eng. Department.
 Scale 1" = 16"
 1906 OCT. 25 J.M.D.
 1917 Hug 3 CFH
 2-8-23 P.C.K. / C.W. 2-20-23

S-M-25-M-N



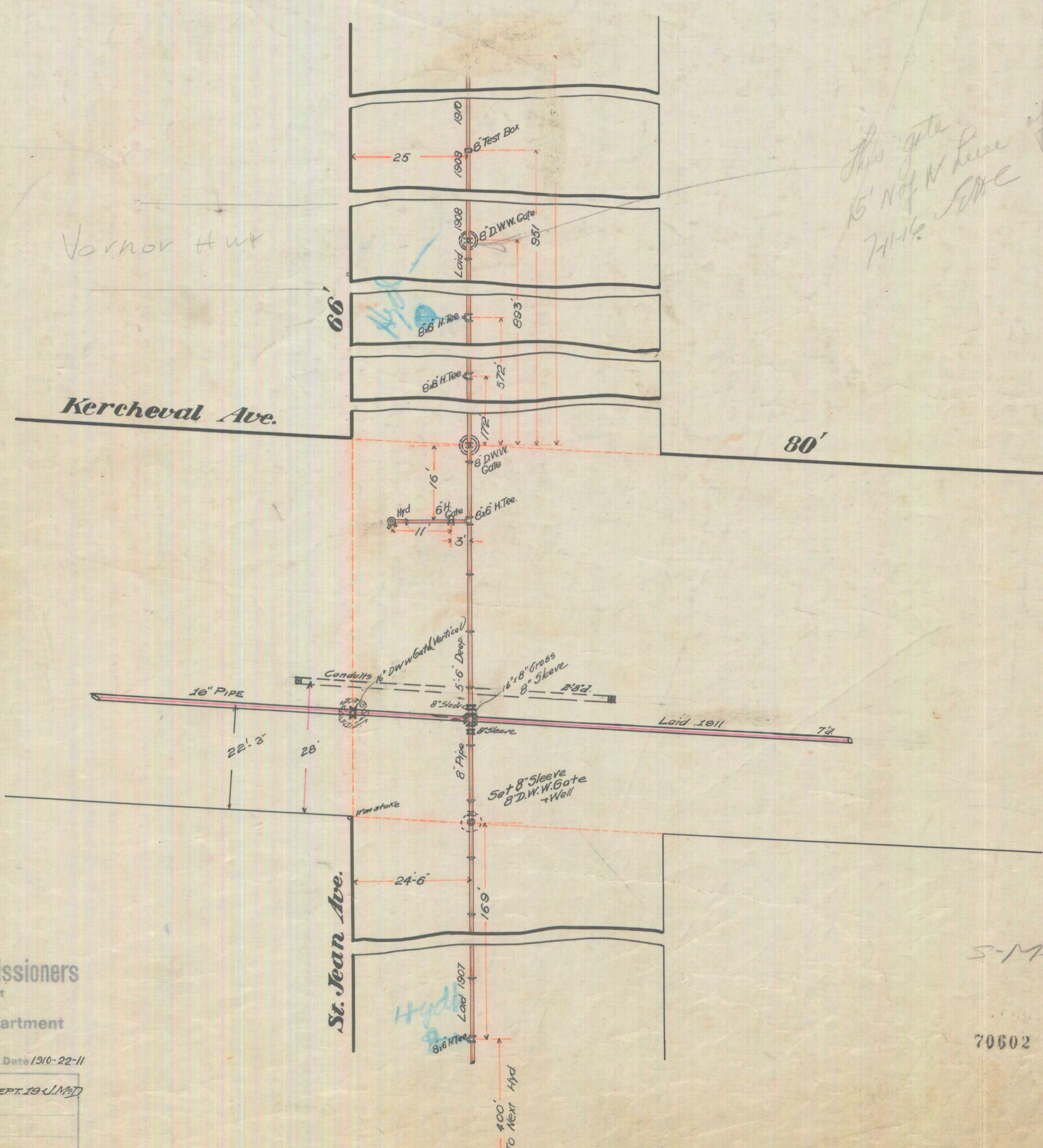
DATE	BY	CHKD	DATE	BY	CHKD
70609					
DEPARTMENT OF WATER SUPPLY CITY OF DETROIT					
175 E. JEFFERSON AVE			ENGINEERING DIVISION		
S-M-25-N					
DATE	DRAWN BY				CHKD
4-15-26	B. REID				
SCALE	TRACED BY				CHKD
1/16" = 1'	B. REID				
S.M.-25-N	CHECKED BY				C. S. E.
REFERENCE					
1924-D-53	1922-C-44				
1921-B-35-78					
1917-903					
1914-F-29					



5-M-25-M

THE
 Board of Water Commissioners
 of the City of Detroit
 70603
 Civil Engineering Dept.

Scale 1"=16' Drawn by JEG Date 3-14-22
 Revised
 CR 4/10/22



Varnor H.W.

This gate 15' N of W line of Waterloo - 7-1-16 E.C.C.

Kercheval Ave.

80'

St. Jean Ave.

25-M
5-M-24-J-K

70602

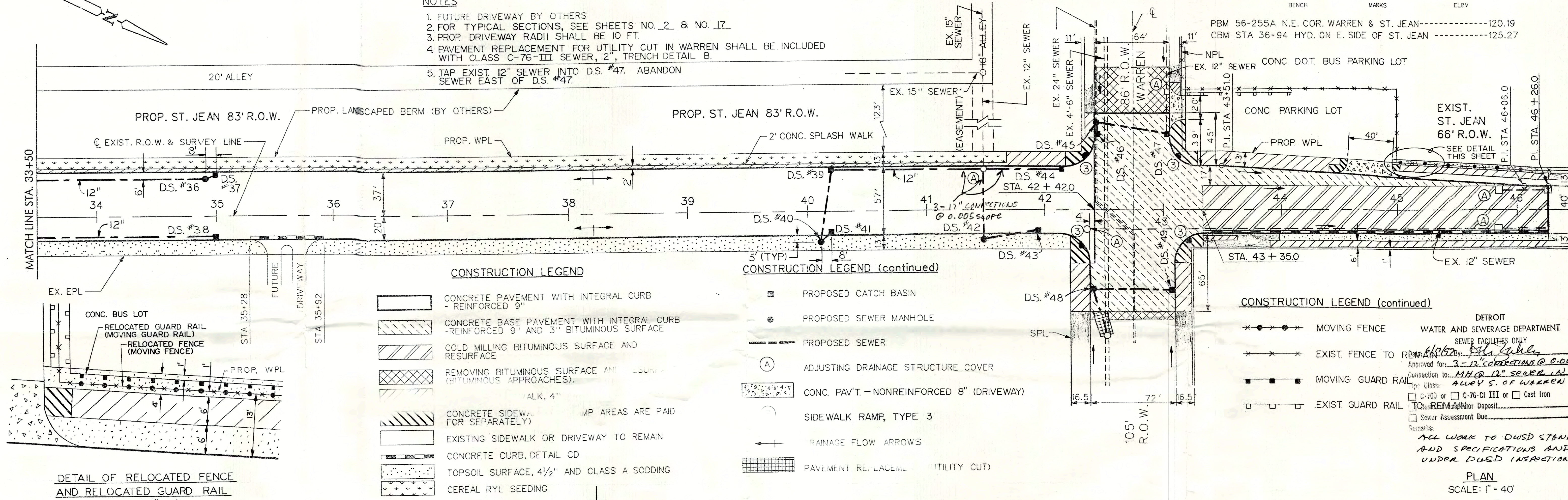
THE Board of Water Commissioners
Of the City of Detroit
Civil Engineering Department

Scale 1"-16' Drawn by G.D.C. Date 1910-22-11

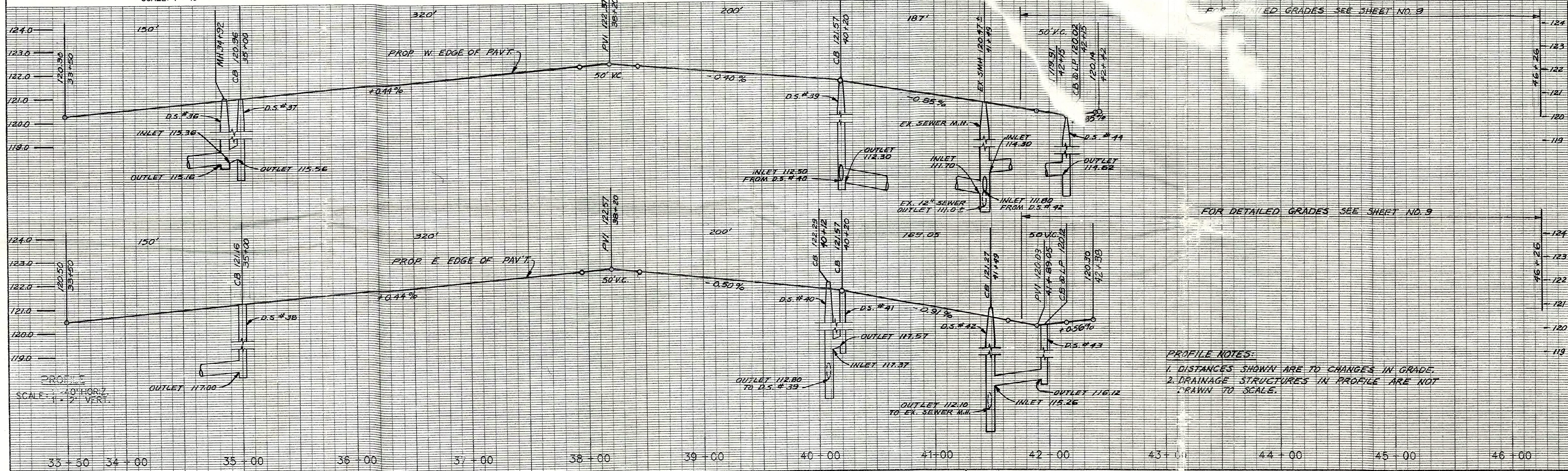
1911-May 18 J.M.D.	1911-SEPT. 19 J.M.D.

400'
TO Next Hyd

- 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.



DETROIT WATER AND SEWERAGE DEPARTMENT
SEWER FACILITIES ONLY
Approved for: *3-12" CONNECTIONS @ 0.005*
Contract to: *M.H. @ 12" SEWER IN ALLEY S. OF WARREN*
Type: Class: G-76-Cl III or Cast Iron
 Q-REIM (Antor Deposit)
 Sewer Assessment Due
Remarks:
ALL WORK TO DUSD STANDARDS AND SPECIFICATIONS AND UNDER DUSD INSPECTION.



PLAN BY: K.M. CHECKED BY: N.W. APPROVED: <i>Dorine Maulder</i> 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 Q, WARREN		INDEX NO. SHEET 8 OF 51 SHEETS CONTRACT NO. ASSIGNMENT NO. 96-22-20 DATE JAN., 1997
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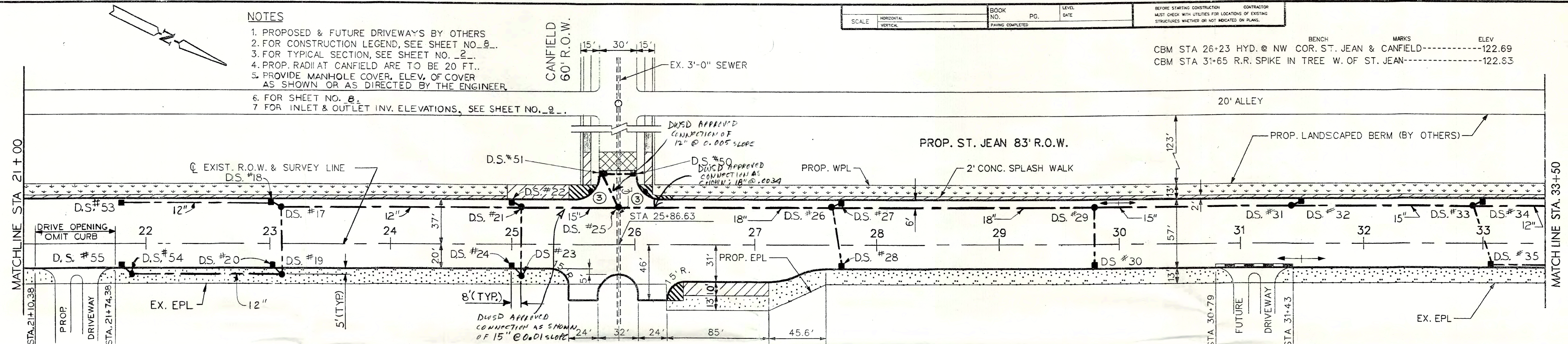
NOTES

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

CONTRACTOR: BEFORE STARTING CONSTRUCTION, 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-----122.63



DRAINAGE STRUCTURE TABLE

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.
17	STD. M.H.		199	12	IV		199	
18	C.B. "B"	T	6	12	III		6	
19	C.B. "B"	T	56	12	III		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	III		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	SEWER TAP SIZE (IN.)	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)

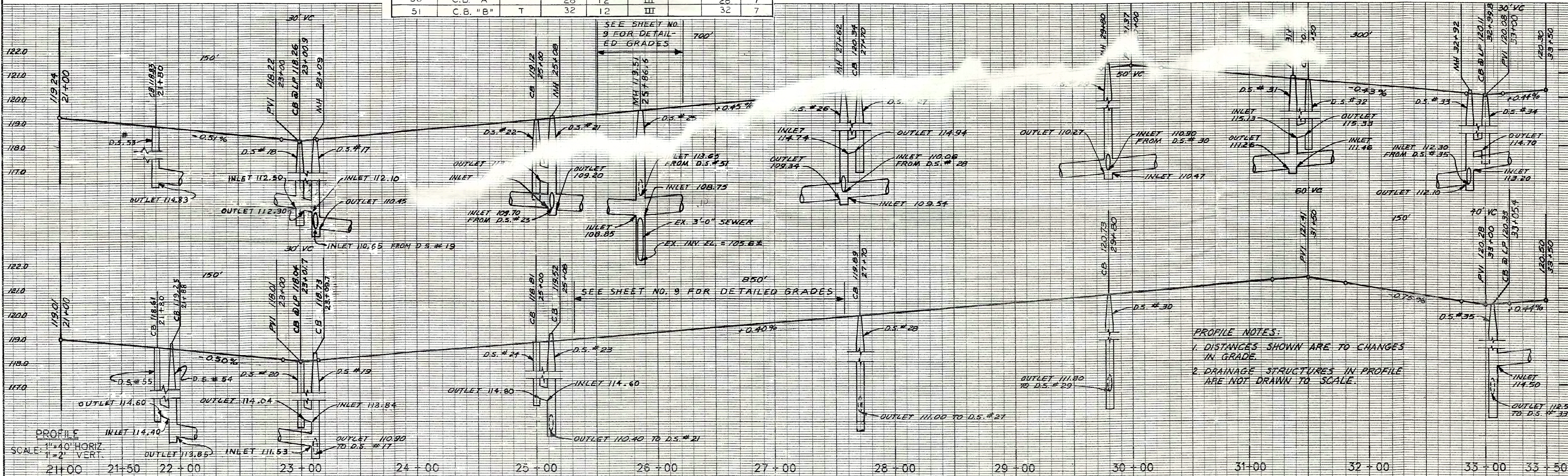
DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.	SEWER DIA. (IN.)	CLASS C-76	SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
39	C.B. "B"	T	139	12	IV		139	
40	C.B. "B"		63	12	IV		63	5
41	C.B. "A"		7	12	III		7	
42	C.B. "B"	T	60	12	IV	12	60	5
43	C.B. "A"		42	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	

DETROIT WATER AND SEWERAGE DEPARTMENT
SEWER FACILITIES DIVISION

Date: 4/18/97
Approved for: [Signature]
Connection to: 3'-0" SEWER IN PLAN
Pipe Class: C-76
SCALE: 1"=40'

Street Inspector Deposit
 Sewer Assessment Due

REMARKS:
ALL WORK TO DWS STANDARDS & SPECIFICATIONS AND UNDER DWS INSPECTION

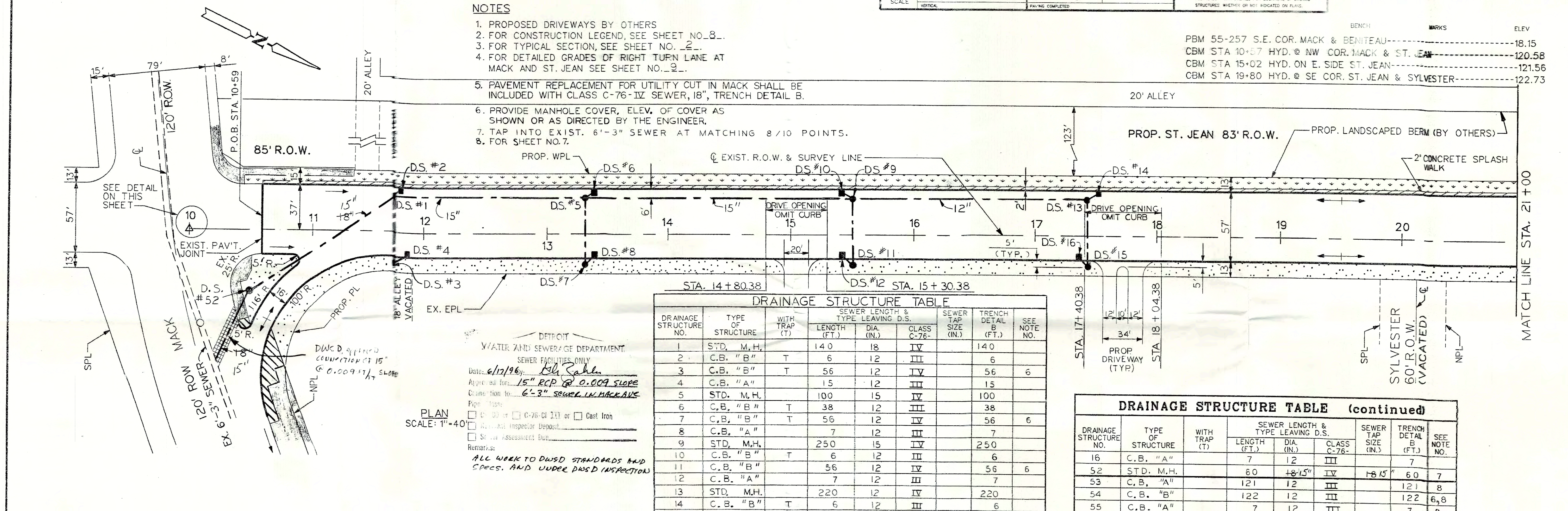


PROFILE NOTES:
1. DISTANCES SHOWN ARE TO CHANGES IN GRADE.
2. DRAINAGE STRUCTURES IN PROFILE ARE NOT DRAWN TO SCALE.

REVISIONS NO. DESCRIPTION DATE BY CHECKED BY APPROVED BY	PLAN K.M. N.W. <i>Dadiu Hoidar</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. 21+00 TO STA. 33 + 50	SHEET 7 OF 51 SHEETS
	GRADE N.W.			CONTRACT NO.
	ESTIMATE			ASSIGNMENT NO. 96-22-20 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 & BENAITEAU-----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



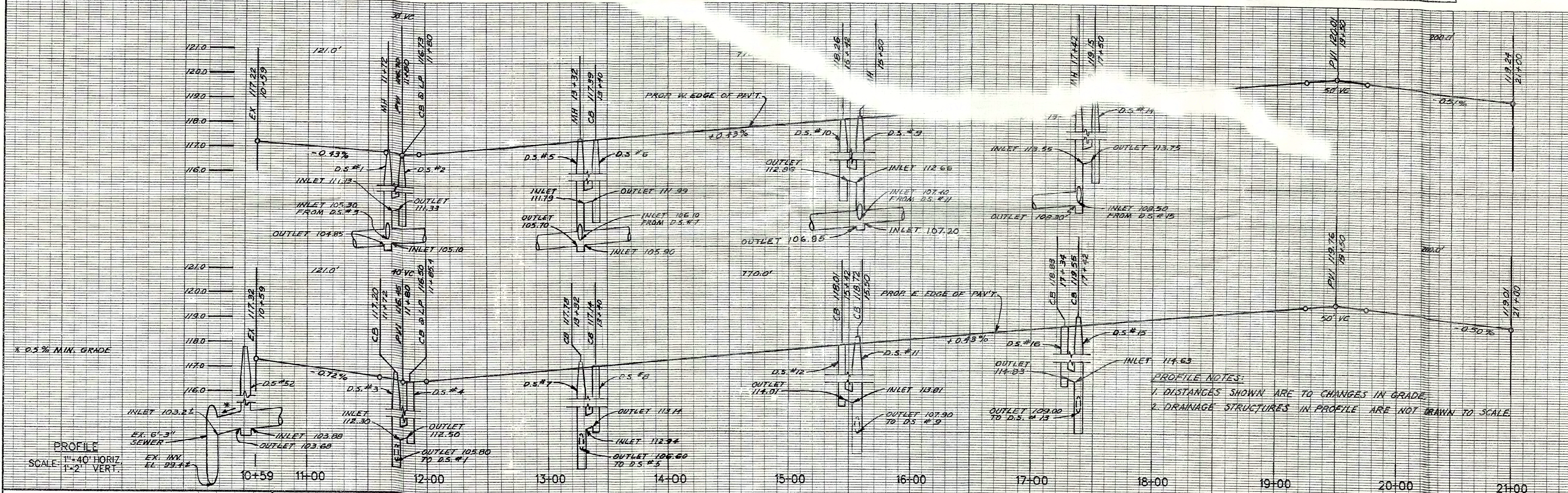
DRAINAGE STRUCTURE TABLE

DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			TRENCH DETAIL B (FT.)	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76		
1	STD. M.H.		14.0	18	IV	14.0	
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)

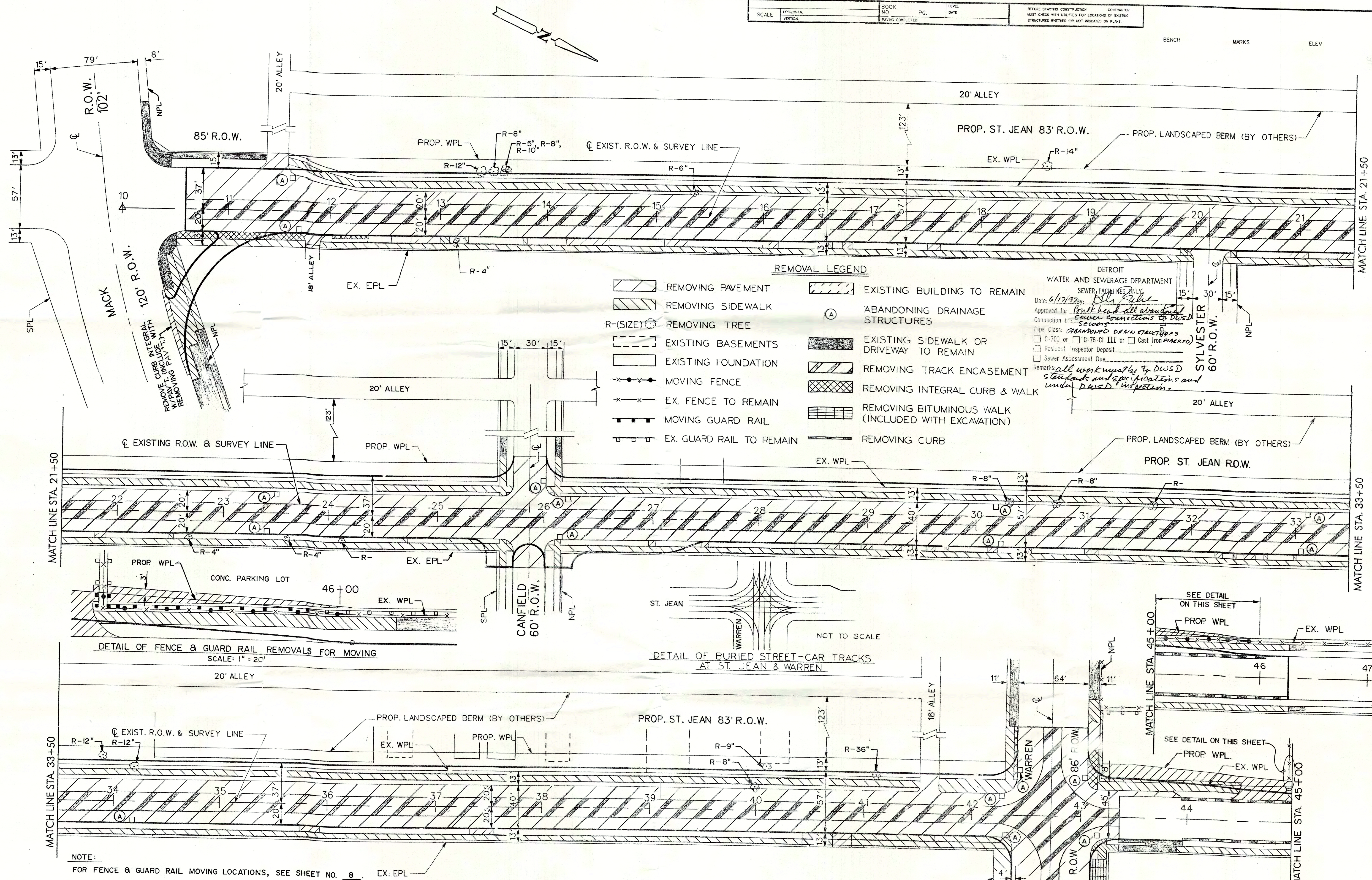
DRAINAGE STRUCTURE NO.	TYPE OF STRUCTURE	WITH TRAP (T)	SEWER LENGTH & TYPE LEAVING D.S.			SEWER TAP SIZE (IN.)	TRENCH DETAIL B (FT.)	SEE NOTE NO.
			LENGTH (FT.)	DIA. (IN.)	CLASS C-76			
16	C.B. "A"		7	12	III		7	
52	STD. M.H.		60	18-15"	IV	18-15"	60	7
53	C.B. "A"		121	12	III		121	8
54	C.B. "B"		122	12	III		122	6, 8
55	C.B. "A"		7	12	III		7	8

Detroit WATER AND SEWERAGE DEPARTMENT
 SEWER FACILITIES ONLY
 Date: 6/17/96
 Approved for: 15" RCP @ 0.009 SLOPE
 Construction to: 6'-3" SEWER IN MACK AVE
 Pipe Class: C-76 or C-76 of 111 or Cast Iron
 See Assessment Due
 Remarks: ALL WORK TO DWS&E STANDARDS AND SPECS. AND UNDER DWS&E INSPECTION



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

PLAN	K.M.	CHECKED BY	N.W.	APPROVED BY	<i>Dadiu 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 MACK TO STA. 21+00	INDEX NO.	SHEET 6 OF 51 SHEETS
GRADE								TOTAL NO.	CONTRACT NO.
ESTIMATE								NO.	ASSIGNMENT NO. 96-22-20
REVISIONS								DATE	JAN., 1997



MATCH LINE STA. 21+50

MATCH LINE STA. 21+50

MATCH LINE STA. 33+50

MATCH LINE STA. 33+50

MATCH LINE STA. 45+00

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

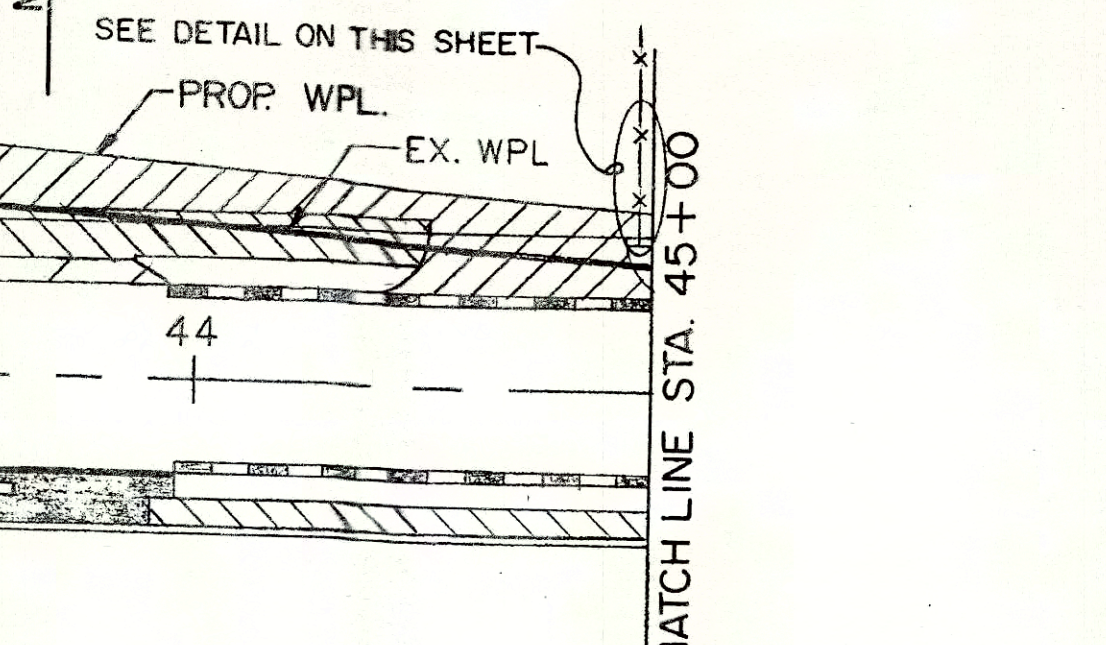
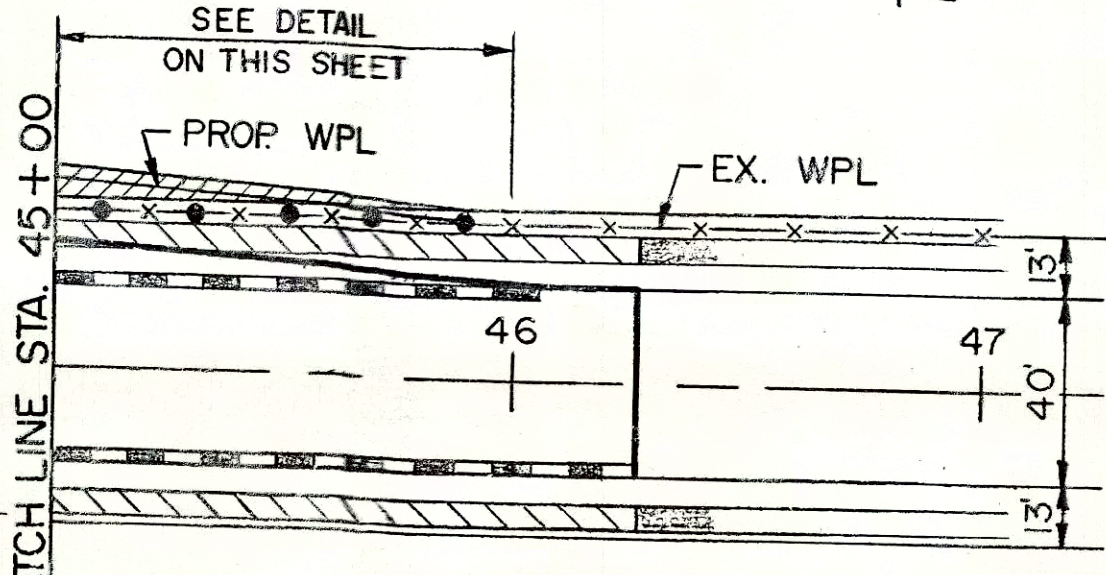
SCALE: 1"=40' (EXCEPT WHERE NOTED OTHERWISE)

- REMOVAL LEGEND**
- REMOVING PAVEMENT
 - REMOVING SIDEWALK
 - R-(SIZE) REMOVING TREE
 - EXISTING BASEMENTS
 - EXISTING FOUNDATION
 - MOVING FENCE
 - EX. FENCE TO REMAIN
 - MOVING GUARD RAIL
 - EX. GUARD RAIL TO REMAIN
 - EXISTING BUILDING TO REMAIN
 - ABANDONING DRAINAGE STRUCTURES
 - EXISTING SIDEWALK OR DRIVEWAY TO REMAIN
 - REMOVING TRACK ENCASEMENT
 - REMOVING INTEGRAL CURB & WALK
 - REMOVING BITUMINOUS WALK (INCLUDED WITH EXCAVATION)
 - REMOVING CURB

DETROIT WATER AND SEWERAGE DEPARTMENT SEWER FACILITIES ONLY
 Date: 6/17/97
 Approved for: *[Signature]*
 Connection: *[Signature]*
 Pipe Class: *[Signature]*
 C-70J or C-75-CI III or Cast Iron *[Signature]*
 Resilient Inspector Deposit
 Sewer Assessment Due
 Remarks: *all work must be to DWS&D standards and specifications and under DWS&D inspection.*

DETAIL OF FENCE & GUARD RAIL REMOVALS FOR MOVING SCALE: 1" = 20'

DETAIL OF BURIED STREET-CAR TRACKS AT ST. JEAN & WARREN NOT TO SCALE



REVISIONS DR. CK. DATE FINAL	PLAN	K.M.	CHECKED BY	N.W.	APPROVED BY	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
	GRADE				<i>[Signature]</i>			
	ESTIMATE							
	FINAL	****	****	****				

CITY OF DETROIT

COLEMAN A. YOUNG, MAYOR

**WATER & SEWERAGE DEPARTMENT
POLLUTION CONTROL PROGRAM**

CONTRACT NO. PCS-65

JEFFERSON / CONNER

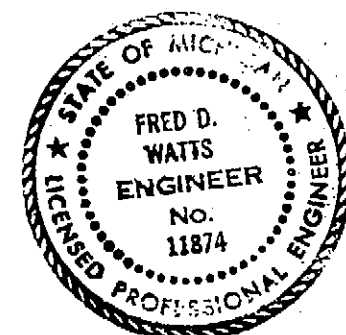
INDUSTRIAL REVITALIZATION PROJECT

CONTRACT DRAWINGS

FEBRUARY 1987

**BOARD OF WATER
COMMISSIONERS**

WILLIAM G. HERBERT, PRESIDENT
JOHN LAMERATO, VICE-PRESIDENT
SYLVIA CALABRESE
WILLIAM BROWN, JR.
JAMES T. ELLIS
ANTHONY SANFEMIO
HENRY E. GRAPER, JR.

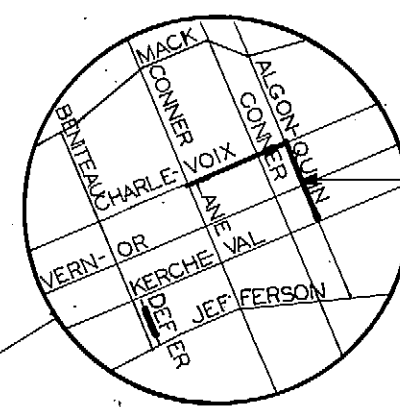


CHARLIE J. WILLIAMS, director
BENNIE L. BENJAMIN, deputy director
DAVE FISHER, asst. director technical support

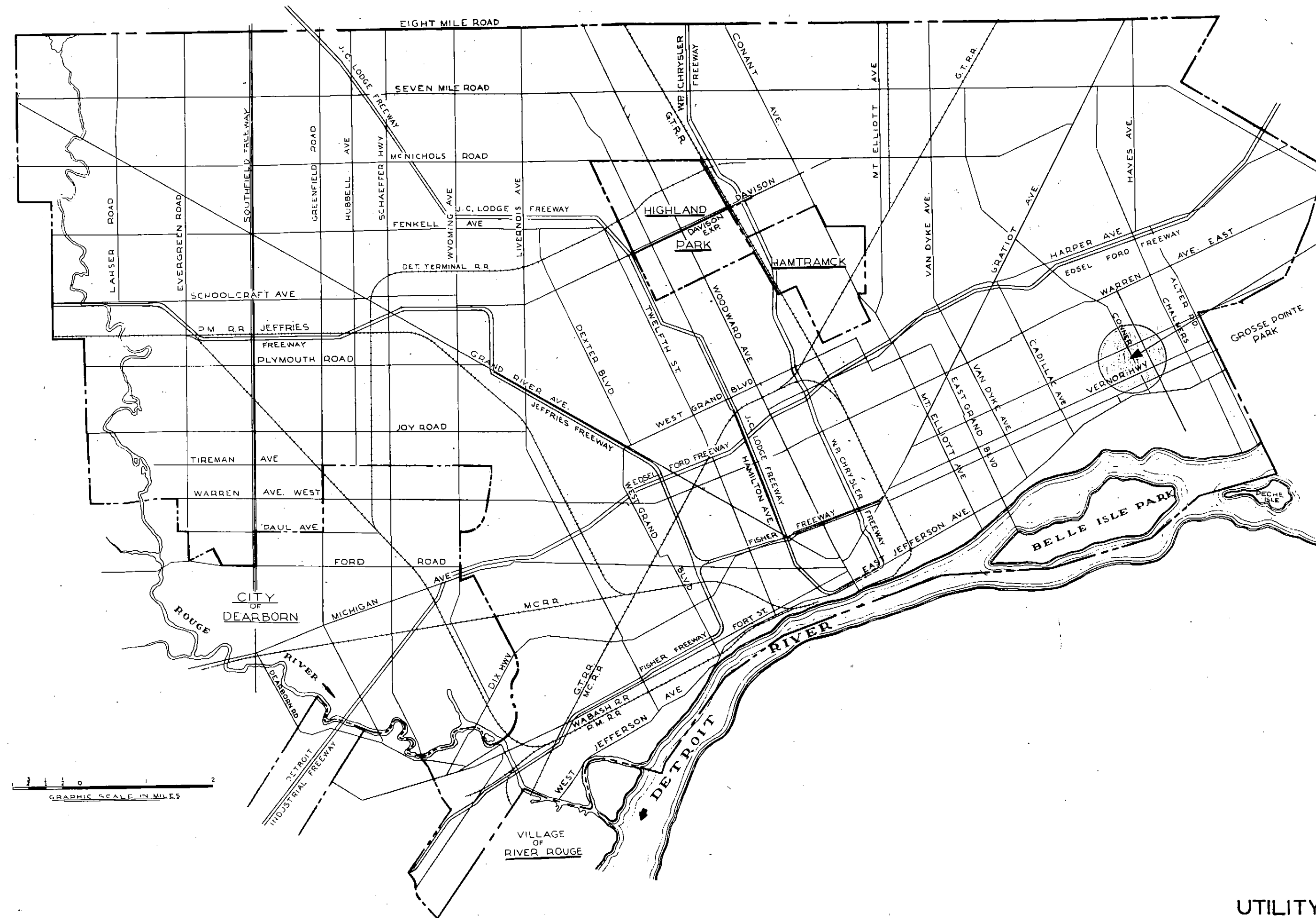
FRED D. WATTS, gen. supt. of engineering
J. L. CARETHERS, asst. gen. supt. of engineering
G. L. ROWINSKI, head engineer - design
D. DIX, head engineer - field

DRAWING INDEX

DRAWING NO.	TITLE
NONE	COVER SHEET
D-PCS-65-1	LOCATION MAP, DRAWING INDEX, LEGEND AND GENERAL NOTES.
D-PCS-65-2	GENERAL LOCATION MAP
D-PCS-65-3	PLAN, PROFILE AND UTILITIES, STA. 0+00 TO STA. 12+43
D-PCS-65-4	PLAN, PROFILE AND UTILITIES, STA. 12+43 TO STA. 25+92.49
D-PCS-65-5	PLAN, PROFILE AND UTILITIES, STA. 25+92.49 TO STA. 38+90
D-PCS-65-6	DEFER PLACE SEWER PLAN & PROFILE STA. 0+00 TO STA. 6+45.7
D-PCS-65-7	BUDD COMPANY SEWER CONNECTION & DROP MANHOLE CONNECTION DETAILS
D-PCS-65-8	MBT SEWER AND SEWER IN EASEMENT WEST OF HILLGER
D-PCS-65-9	DETAILS OF SHAFT CLOSURE, CONNECTION, AND 8'-0" DIA. DROP MANHOLE NO. 7
D-PCS-65-10	MISCELLANEOUS DETAILS



CONTRACT NO.
PCS-65



UTILITY OWNERS AND
JURISDICTIONAL AUTHORITIES

DETROIT EDISON COMPANY
2000 SECOND AVENUE ROOM 430
DETROIT, MICHIGAN 48226

MICHIGAN CONSOLIDATED GAS COMPANY
500 GRISWOLD
DETROIT, MICHIGAN 48226

MICHIGAN BELL TELEPHONE COMPANY
1922 CASS
DETROIT, MICHIGAN 48226

DETROIT DEPARTMENT OF TRANSPORTATION
1303 EAST WARREN AVENUE
DETROIT, MICHIGAN 48207

DETROIT PUBLIC LIGHTING DEPARTMENT
9449 GRINNELL
DETROIT, MICHIGAN 48213

CITY ENGINEERING DEPARTMENT
CADILLAC TOWER . 9TH FLOOR
DETROIT, MICHIGAN 48226

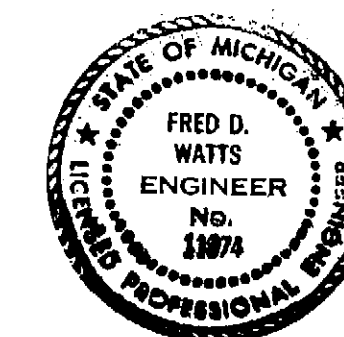
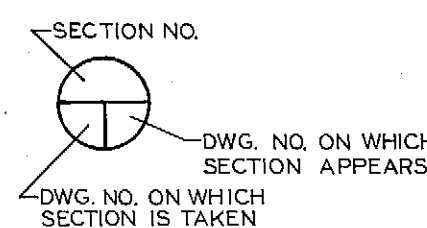
DETROIT WATER AND SEWERAGE DEPARTMENT
735 RANDOLPH
DETROIT, MICHIGAN 48226

GENERAL NOTES

- CHANGES IN ALIGNMENT OF THE SEWER FROM THAT SHOWN ON THE DRAWINGS MAY BE CONSIDERED. HOWEVER, THE CONTRACTOR SHALL SUBMIT A PLAN OF THE PROPOSED ALIGNMENT CHANGES TO THE ENGINEER FOR APPROVAL AND, IN ADDITION, A PLAN SHALL ALSO BE SUBMITTED TO THE AUTHORITIES HAVING JURISDICTION ALONG THE ROUTE OF PROPOSED CHANGES FOR THEIR APPROVAL. IF APPROVAL IS NOT GRANTED BY ALL CONCERNED THE SEWER SHALL BE CONSTRUCTED AS SHOWN.
- ELEVATIONS SHOWN ARE CITY OF DETROIT DATUM. TO CONVERT TO U. S. C. & G. S. DATUM, ADD 479.755 TO ELEVATIONS SHOWN.
- IN COMPLIANCE WITH PUBLIC ACT 53 OF THE STATE OF MICHIGAN (EFFECTIVE AUGUST 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, 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 1-800-482-7171).
- ALL UNDERGROUND UTILITIES OF RECORD HAVE BEEN SHOWN ON THE PLAN. HOWEVER, ONLY SEWERS AND WATER MAINS 24" AND OVER HAVE BEEN SHOWN IN THE PROFILE.
- ALL SEWERS SHOWN ALONG THE ROUTE OF THE NEW CONSTRUCTION ARE SUBJECT TO HEADING UP TO GROUND SURFACE UNDER STORM OCCURRENCES.
- THE 5'-6" SEWER HAS BEEN DESIGNED FOR POURED IN PLACE MONOLITHIC CONCRETE. SHOULD THE CONTRACTOR ELECT TO USE JACKED PIPE IN LIEU OF THE MONOLITHIC CONCRETE, HE SHALL SUBMIT DETAILS FOR DWSD REVIEW AND APPROVAL. DETAILS SHALL INCLUDE BUT NOT NECESSARY LIMITED TO ALIGNMENT, SHAFT LOCATION, PIPE DESIGN, ETC.
- UNKNOWN UNDERGROUND STRUCTURES SUCH AS THE REMAINS OF DEMOLISHED BUILDINGS, MAY POSSIBLY EXIST ALONG THE CONSTRUCTION ROUTE. THE CONTRACTOR SHALL BE ON THE ALERT AND EXERCISE DUE CAUTION IN ANY AREA THAT MAY BE SUSPECTED OF CONTAINING SUCH UNDERGROUND STRUCTURES. THIS SHALL BE FULLY CONSIDERED IN THIS PLANNING AND CONSTRUCTION OPERATIONS INCLUDING THE BID PRICE.

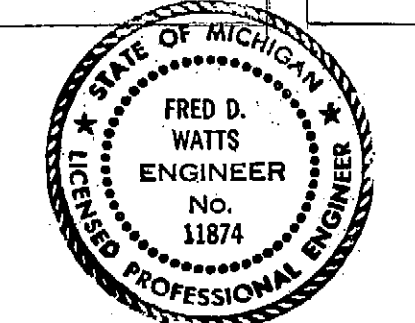
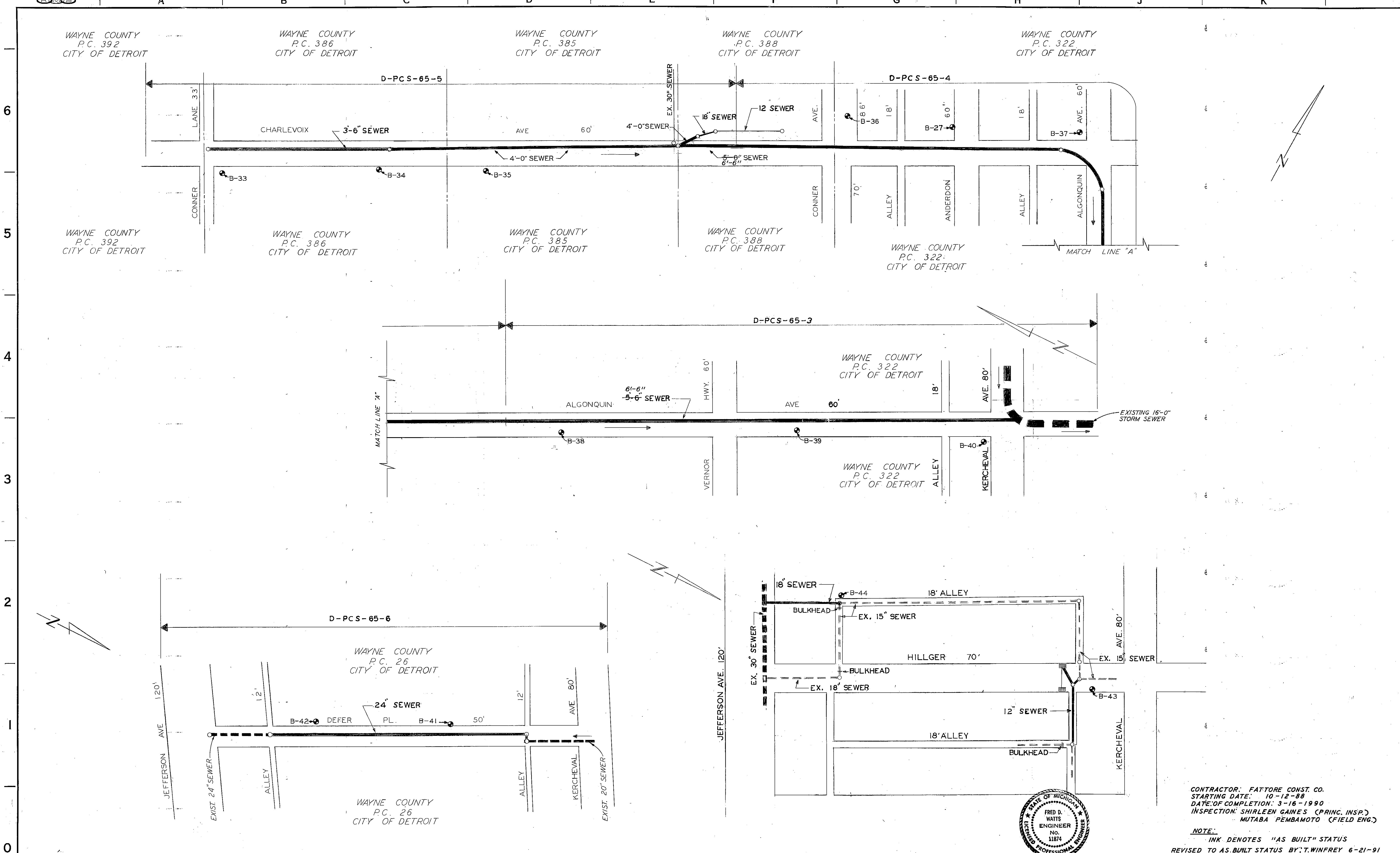
LEGEND

NEW SANITARY SEWER	
EXISTING SANITARY OR STORM SEWER	
EXISTING WATER MAIN	
GAS MAIN	
TELEPHONE & TELEGRAPH CONDUIT OR UNDERGROUND CABLE	
ELECTRIC POWER CONDUIT OR UNDERGROUND CABLE	
PETROLEUM PRODUCTS LINES	
P.L.D. CONDUIT	
FIRE HYDRANTS	
TREES	
UTILITY POLES	
BOULEVARD LIGHT	
POLICE & FIRE ALARM BOX	
SIGN	
GAS DRIP	
CATCH BASIN	
SEWER MANHOLE	
GATE VALVE & WELL	
POLE ANCHOR	
SECTION LINE	
ELEVATION CONTROL MONUMENT	
EXISTING DITCH	
TRAFFIC SIGNAL	
MAIL BOX	
HIGHWAY GUARD POST	
CULVERT	
MARSH AREA	
TREE STUMP	
SOIL BORING	
FENCE	
RAILROAD OR STREETCAR TRACKS	
SECTION SYMBOL (DETAIL DWGS)	



F				APPROVED	JEFFERSON / CONNER	CITY OF DETROIT	M.D.P.H./D.N.R. PERMIT NO.
E				DESIGNED BY D.L.R.	INDUSTRIAL REVITALIZATION PROJECT	ENGINEERING DIVISION	879158
D				DRAWN BY D.L.R.			FED. REF. NO.
C				CHECKED BY	LOCATION MAP, DRAWING INDEX, LEGEND AND GENERAL NOTES	CHARLEVOIX - ALGONQUIN SEWER	CONTRACT NO. PCS-65
B				ENGINEER		AND DEFER PLACE SEWER	FILE NO.
A							
	DESCRIPTION	CHK'D	APRVD.	DATE	SCALE: AS SHOWN	SECTION MAP	WORK ORDER NO.
	REVISIONS				DATE: FEBRUARY, 1987	TOWN	S-300-966
						RANGE	
						SECTION	
						PORTION CODE	
						D-PCS-65-1	

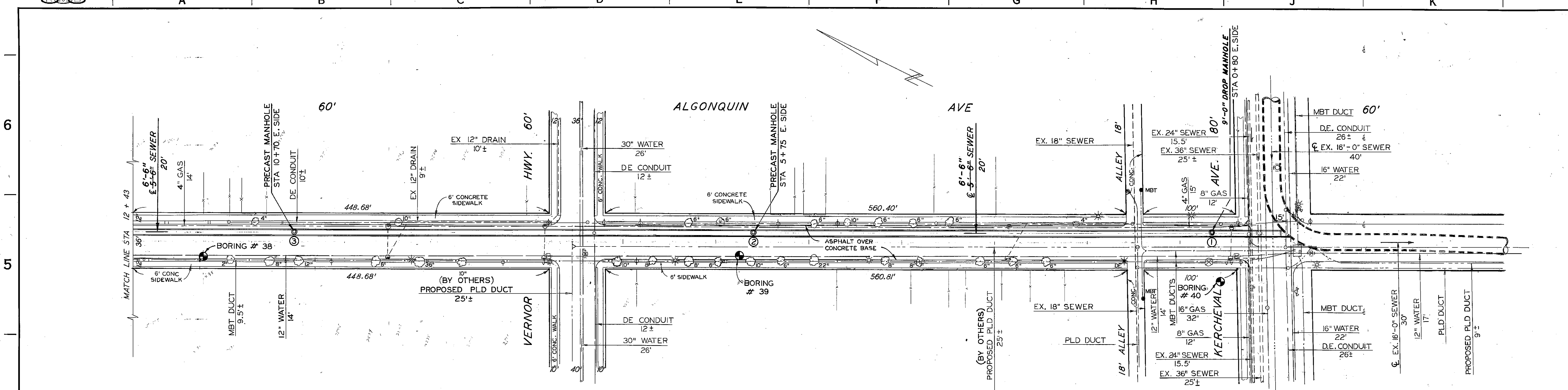
DWG. 2226-1



CONTRACTOR: FATTORE CONST. CO.
 STARTING DATE: 10-12-88
 DATE OF COMPLETION: 3-16-1990
 INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
 MUTABA PEMBAMOTO (FIELD ENG.)

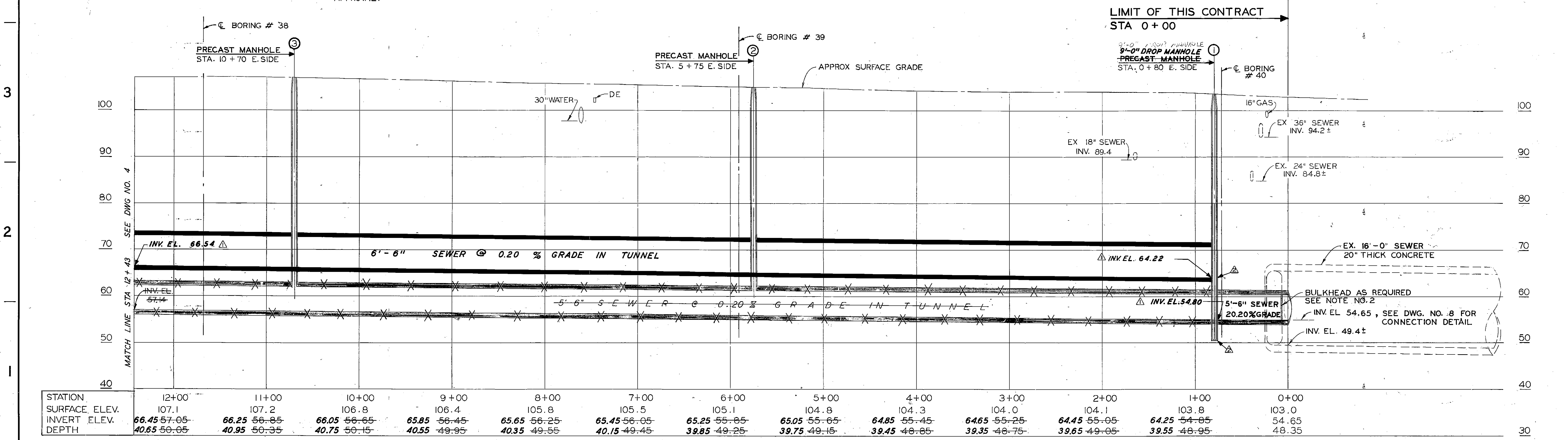
NOTE:
 INK DENOTES "AS BUILT" STATUS
 REVISED TO AS BUILT STATUS BY T. WINFREY 6-21-91
 CHECKED BY N. LITVIN

F E D C B A	DESIGNED BY	<i>A. J. [Signature]</i>	APPROVED	<i>[Signature]</i>	JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT GENERAL LOCATION MAP & SOIL BORING LOCATIONS SCALE: 1" = 100' DATE: FEBRUARY, 1987	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION CHARLEVOIX - ALGONQUIN SEWER AND DEFER PLACE SEWER 07600	M.D.P.H./D.N.R. PERMIT NO.	879158					
	DRAWN BY	JAM	HEAD ENGINEER	<i>[Signature]</i>			FED. REF. NO.						
	CHECKED BY	<i>[Signature]</i>	ASSISTANT DIVISION ENGINEER	<i>[Signature]</i>			CONTRACT NO.	PCS-65					
	ENGINEER	<i>[Signature]</i>	DIVISION ENGINEER	<i>[Signature]</i>			FILE NO.						
	DESCRIPTION REVISIONS	CHK'D	APRVD.	DATE					WORK ORDER NO.	S-300-966			
							SECTION MAP	TOWN	RANGE	SECTION	PORTION CODE	WORK ORDER NO.	S-300-966
													D-PCS-65-2



- NOTES:**
1. LOCATION OF THE MINING SHAFT SHALL BE ALONG ALGONQUIN AVE.
 2. IF CONSTRUCTION OPERATION FOR THE TUNNEL PORTION REQUIRES A BULKHEAD, THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND METHOD OF CONSTRUCTION TO THE ENGINEER FOR REVIEW AND APPROVAL.

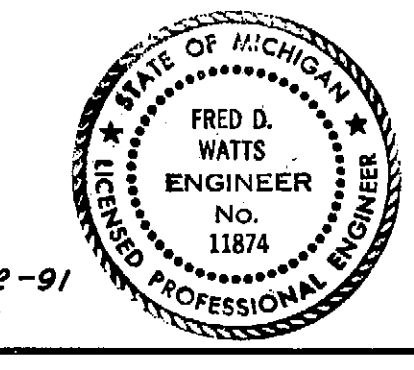
PLAN
SCALE : 1" = 50'



PROFILE
SCALE : HORIZ. 1" = 50'
VERT. 1" = 10'

LIMIT OF THIS CONTRACT
STA 0+00

CONTRACTOR: FATTORE CONST. CO.
STARTING DATE: 10-12-88
DATE OF COMPLETION: 3-16-1990
INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
MUTABA PEMBAMOTTO (FIELD ENG.)

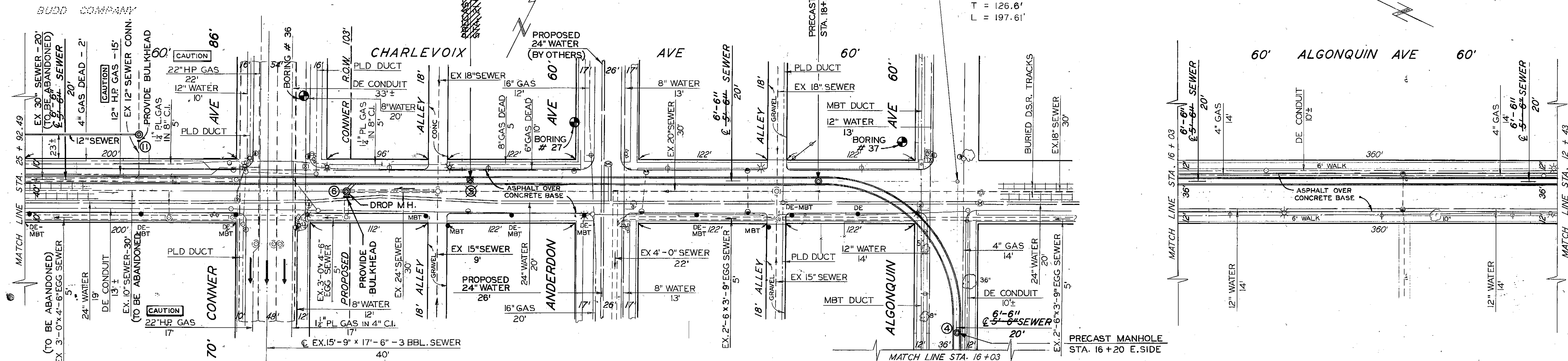


NOTE:
INK DENOTES "AS BUILT" STATUS

REVISED TO "AS BUILT" STATUS BY: T. WINFREY 4-2-91
CHECKED BY: N. LITVIN

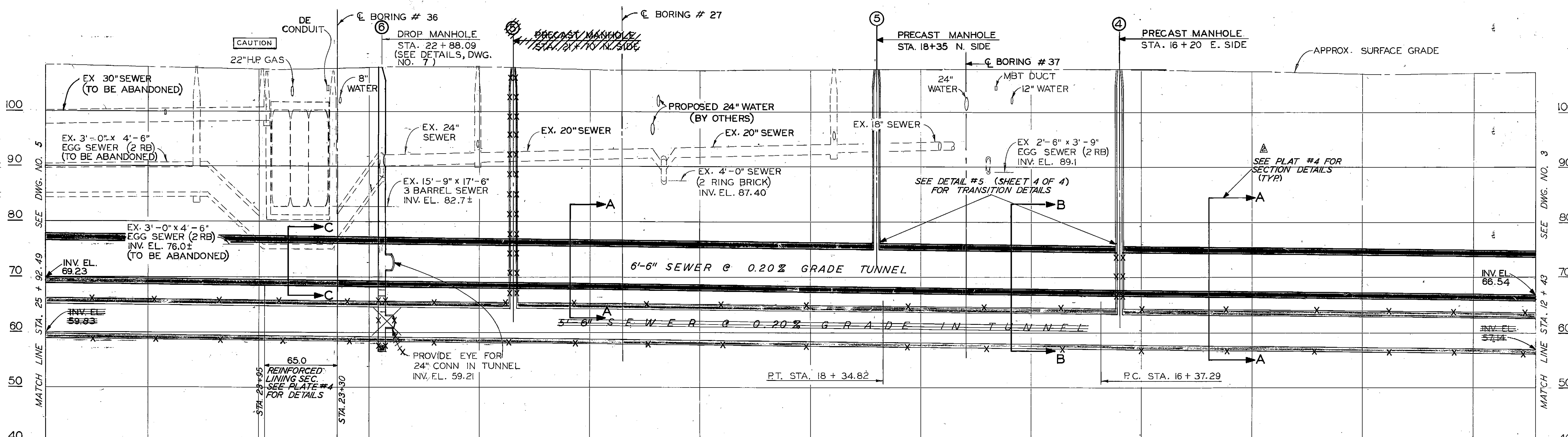
F	DESIGNED BY	S.T. DIOSO	APPROVED	JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT		CITY OF DETROIT			M.D.P.H./D.N.R. PERMIT NO.	
						WATER AND SEWERAGE DEPARTMENT			879158	
D	DRAWN BY	S.T. DIOSO	HEAD ENGINEER	PLAN, PROFILE & UTILITIES STA. 0+00 TO STA. 12+43		ENGINEERING DIVISION			FED. REF. NO.	
C						CHARLEVOIX - ALGONQUIN SEWER FROM CONNER LANE TO KERCHEVAL AVE.			CONTRACT NO.	
B	PER. D.W.S.D.	L.JOB	12+1-87	SCALE: AS SHOWN		WORK ORDER NO.			FILE NO.	
A	ELEVATIONS DROP M.H.	L.JOB	11-19-89			S-300-966			D-PCS-65-3	
REVISIONS		CHK'D	APRVD.	DATE	SECTION MAP	TOWN	RANGE	SECTION	PORTION CODE	WORK ORDER NO.

NOTE:
FOR OPTIONS REGARDING CONSTRUCTION METHOD TO BE USED IN MINING AND BRACING UNDER THE 3-BARREL CONNER CREEK SEWER, SEE SPECIFICATIONS.



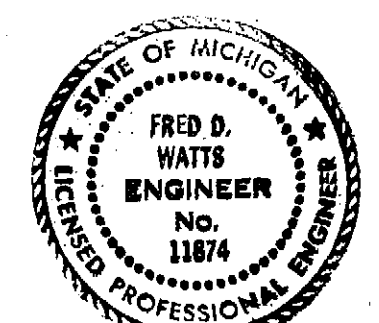
- NOTES:
- TWO PAIRS OF BURIED D.S.R. TRACKS ON CENTERLINE OF CHARLEVOIX AVE.
 - THE CONTRACTOR SHALL BULKHEAD THE EXISTING 3'-0" x 4'-6" EGG SEWER TO THE SOUTH OF DROP MANHOLE NO. 6 AT STA 22+88.09.

PLAN
SCALE: 1" = 50'



PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

STATION	25+00	24+00	23+00	22+00	21+00	20+00	19+00	18+00	17+00	16+00	15+00	14+00	13+00
SURFACE ELEV.	108.0	107.7	108.0	108.1	107.6	107.5	107.6	107.8	107.8	107.7	107.4	107.0	107.1
INVERT ELEV.	59.65	59.45	59.25	59.05	58.85	58.65	58.45	58.25	58.05	57.85	57.65	57.45	57.25
DEPTH	48.35	48.25	48.75	49.05	48.75	48.85	49.15	49.55	49.75	49.85	49.75	49.55	49.85

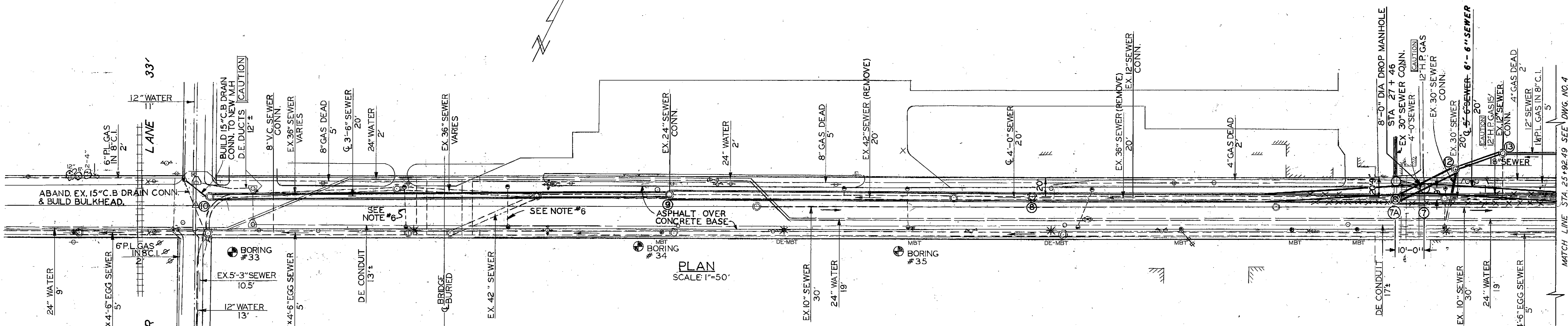


CONTRACTOR: FATTORE CONSTRUCTION
DATE STARTED: 10-12-89
DATE OF COMPLETION: 3-16-90
INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
MUTABA PEMBAMOTTO (FIELD ENG.)
NOTE: "INK" DENOTES "AS BUILT" STATUS

REVISED TO "AS BUILT" STATUS BY: J.M. THOMAS 4-11-91
CHECKED BY: N. LITVIN

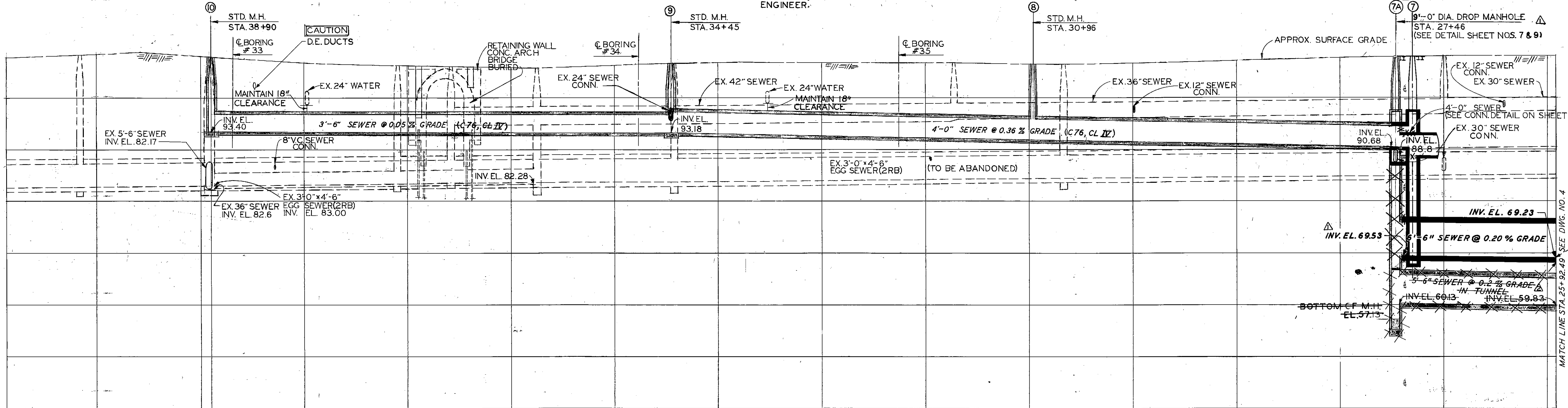
F E D C B A	DESIGNED BY	APPROVED	JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT PLAN, PROFILE & UTILITIES STA 12+43 TO STA 25+92.49 DATE: FEBRUARY, 1987	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION CHARLEVOIX - ALGONQUIN SEWER FROM CONNER LANE TO KERCHEVAL AVE.	M.D.P.H./D.N.R. PERMIT NO.
	DRAWN BY	HEAD ENGINEER			FED. REF. NO.
	CHECKED BY	ASSISTANT DIVISION ENGINEER			CONTRACT NO.
	ENGINEER	DIVISION ENGINEER			FILE NO.
DESCRIPTION REVISIONS		CHK'D APRVD. DATE	SCALE: AS SHOWN	SECTION MAP TOWN RANGE SECTION PORTION CODE WORK ORDER NO.	S-300-966 D-PCS-65-4

CHARLEVOIX AVE.



PLAN SCALE 1"=50'

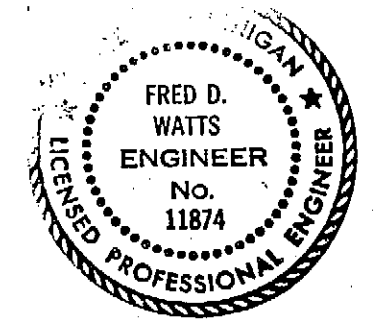
- NOTE #6
- TWO PAIRS OF BURIED D.S.R. TRACKS ON CENTER LINE OF CHARLEVOIX AVE.
 - CONDITION OF BURIED BRIDGE IS UNKNOWN. CONTRACTOR MUST SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL. METHOD OF COMPACTING FILL, INSTALLING SEWER PRIOR TO CONSTRUCTION.
 - CONSTRUCTION BETWEEN STA. 31+60 AND STA. 32+70, BETWEEN STA. 35+60 AND STA. 36+60 AND BETWEEN STA. 38+00 AND STA. 38+90 SHALL BE ON SUNDAYS ONLY.
 - EXISTING 36", 10" & 3'-0" x 4'-6" SEWERS IN CHARLEVOIX AVE. BETWEEN STA. 22+88.09 & STA. 38+90 TO BE ABANDONED, SEE SPECIFICATION.
 - RAILROAD TRACKS AT STA. 27+30 ARE ABANDONED.
 - THE CONTRACTOR SHALL CONNECT ALL EXISTING CATCH BASINS TO NEW SEWER, INCLUDING RELAYING OF NEW PIPES AS REQUIRED, AND APPROVED BY THE ENGINEER.
 - PIPING FOR CATCH BASIN CONNECTIONS TO NEW SEWER SHALL BE 15" DIA EXTRA STRENGTH VITRIFIED SEWER PIPE (C700) OR CONCRETE SEWER PIPE (C76, CL. III).
 - FOR STD. MANHOLE DETAILS, SEE APPENDIX OF THE SPECIFICATIONS.



STATION	40+00	39+00	38+90	38+00	37+00	36+00	35+00	34+00	33+00	32+00	31+00	30+00	29+00	28+00	27+00	26+00
SURFACE ELEV.		108.0	107.9	106.9	106.2	105.9	106.3	106.9	106.8	106.8	106.5	106.8	107.2	107.8	108.1	108.0
INVERT ELEV.		93.4	93.4	93.35	93.3	93.25	93.2	93.02	92.66	92.3	91.94	91.58	91.22	90.86	69.45	60.05
DEPTH		14.5	14.5	13.55	12.9	12.65	13.1	13.88	14.14	14.5	14.56	15.22	15.98	16.94	38.65	48.05

PROFILE SCALE: HORIZ. 1"=50' VERT. 1"=10'

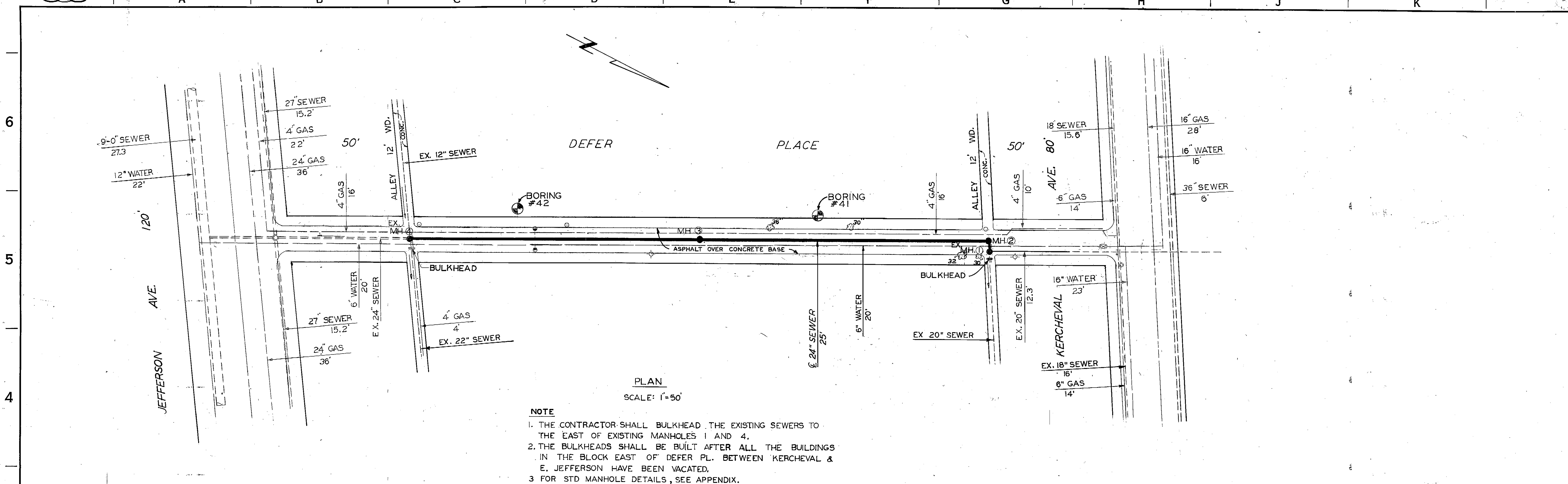
REVISED TO "AS BUILT" STATUS BY: I. WINFREY
CHECKED BY: N. LITVIN 4-8-91



CONTRACTOR: FATTORE CONST.
STARTING DATE: OCTOBER, 1988
DATE OF COMPLETION: 3-16-1990
INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
MUTABA PENBAMOTO (FIELD ENG.)

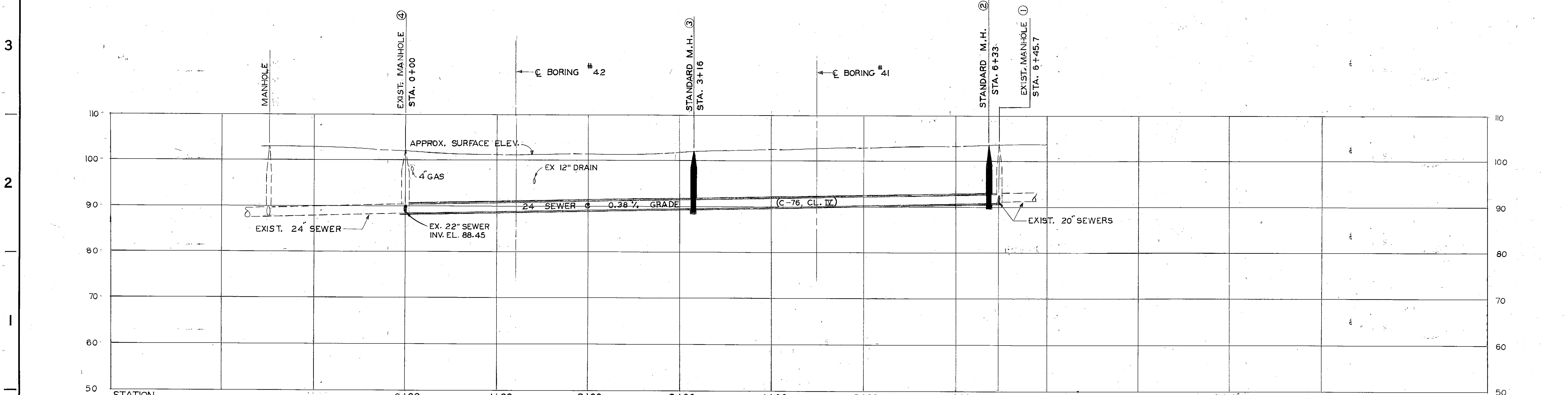
NOTE: INK DENOTES "AS BUILT" STATUS.

DESIGNED BY: <i>A. D. J. J.</i>		APPROVED: <i>F. D. Watts</i>		JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION CHARLEVOIX - ALGONQUIN SEWER FROM CONNER LANE TO KERCHEVAL AVE.	M.D.P.H./D.N.R. PERMIT NO. 879158
DRAWN BY: MB-DLR		HEAD ENGINEER: <i>F. D. Watts</i>				
CHECKED BY: <i>D. J. J.</i>		ASSISTANT DIVISION ENGINEER: <i>J. J. J.</i>		PLAN, PROFILE & UTILITIES STA. 25+92.49 TO STA. 38+90	SECTION MAP: 55 F 63 D	CONTRACT NO. PCS-65
ENGINEER: <i>D. J. J.</i>		DIVISION ENGINEER: <i>J. J. J.</i>				
LJOB 12-11-89		LJOB 11-19-89		DATE: FEBRUARY, 1987	WORK ORDER NO. S-300-966	FILE NO. D-PCS-65-5



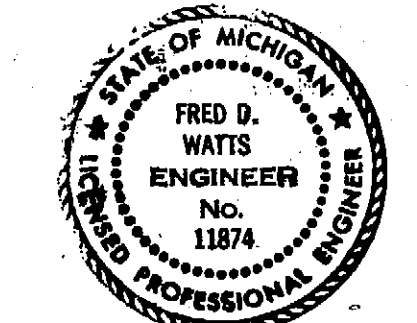
PLAN
SCALE: 1"=50'

- NOTE**
1. THE CONTRACTOR SHALL BULKHEAD THE EXISTING SEWERS TO THE EAST OF EXISTING MANHOLES 1 AND 2.
 2. THE BULKHEADS SHALL BE BUILT AFTER ALL THE BUILDINGS IN THE BLOCK EAST OF DEFÉR PL. BETWEEN KERCHEVAL & E. JEFFERSON HAVE BEEN VACATED.
 3. FOR STD MANHOLE DETAILS, SEE APPENDIX.



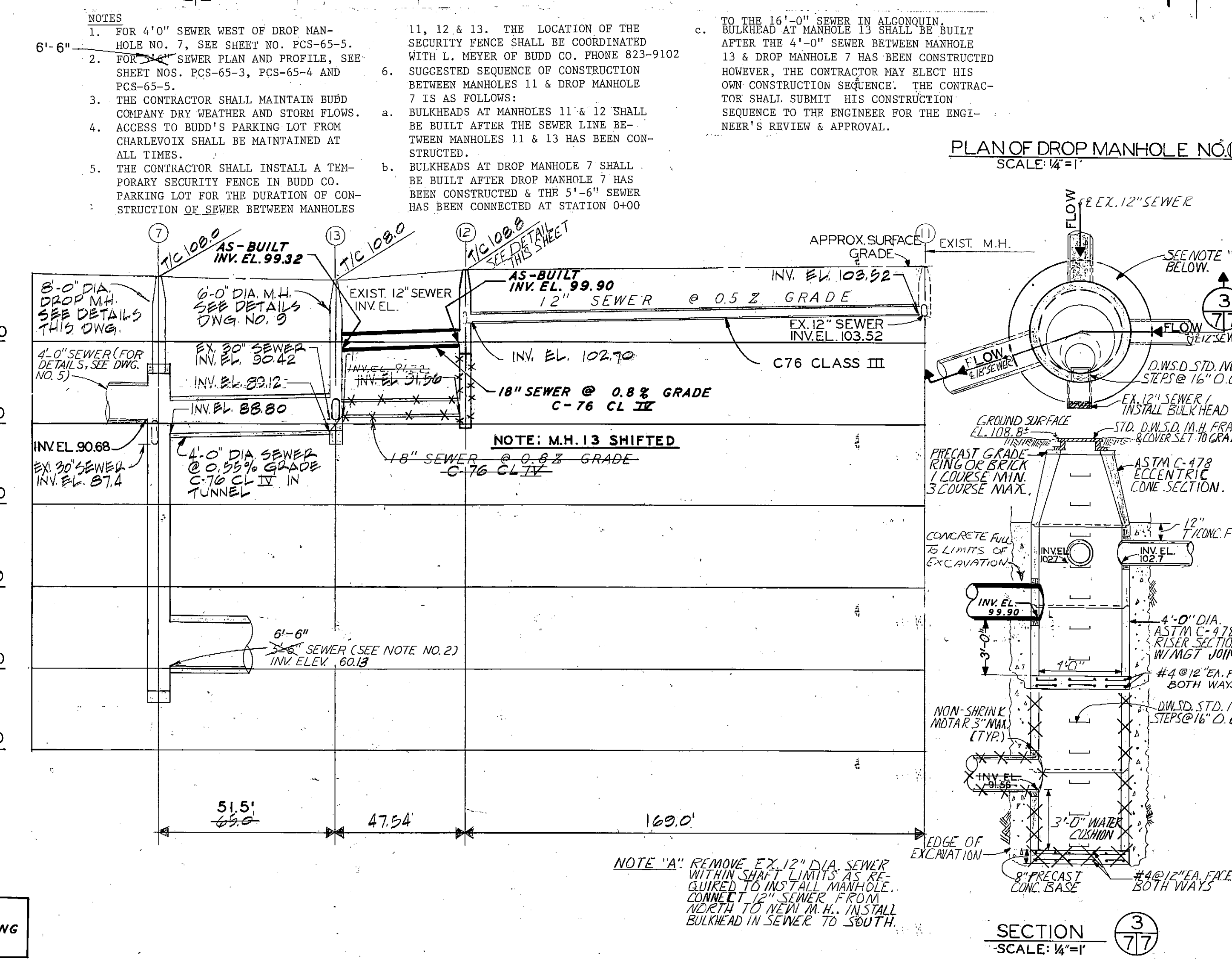
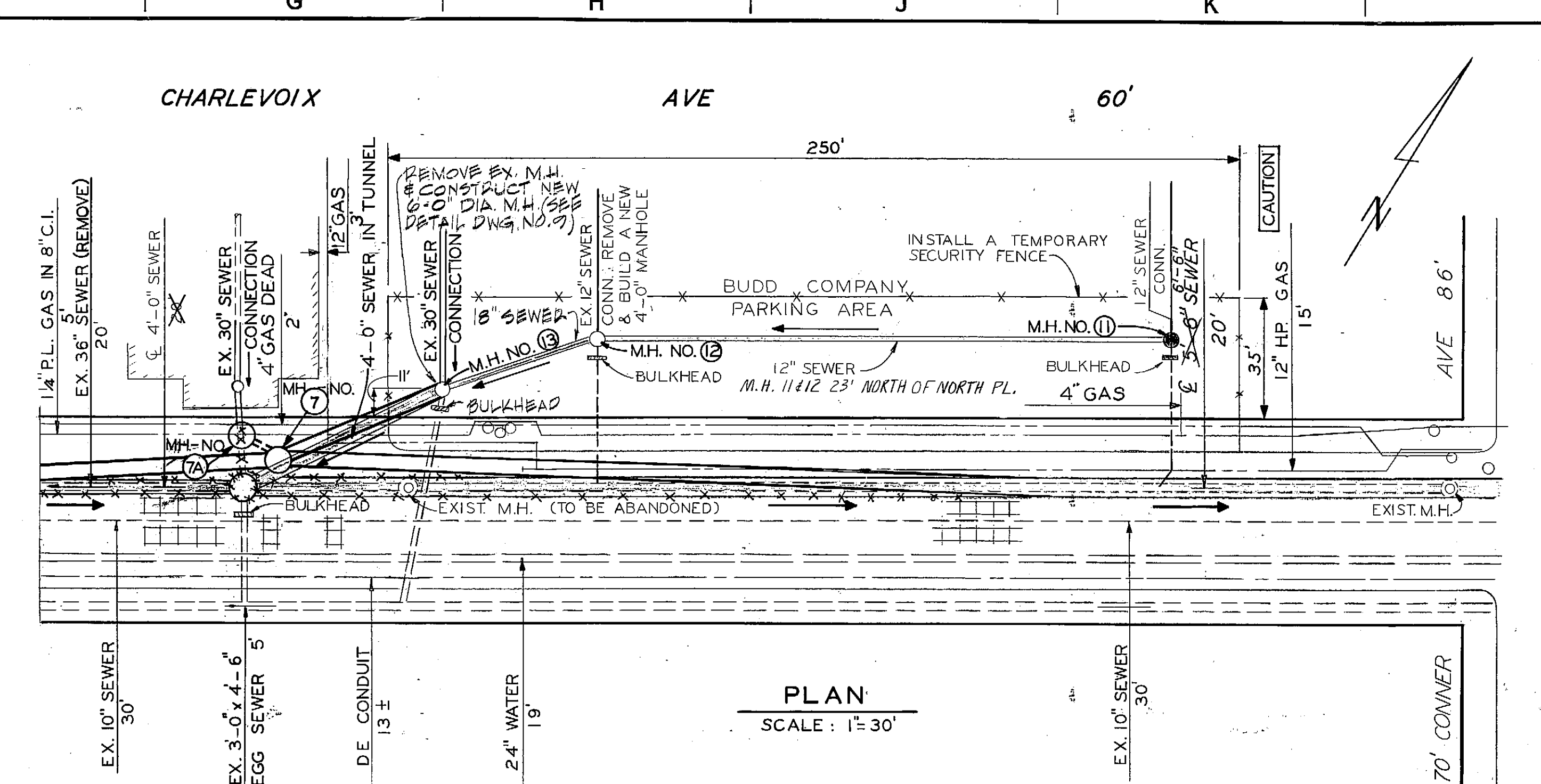
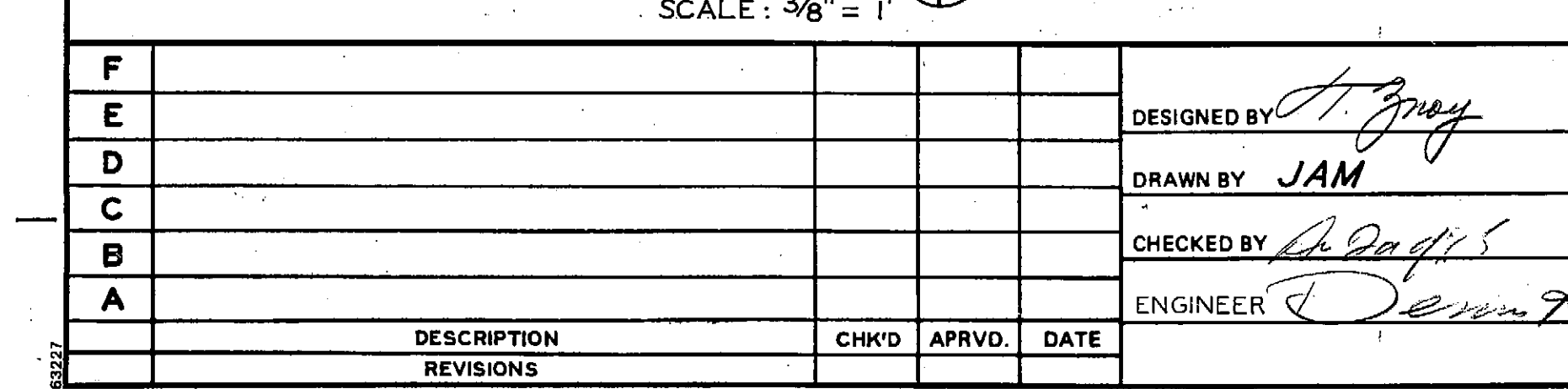
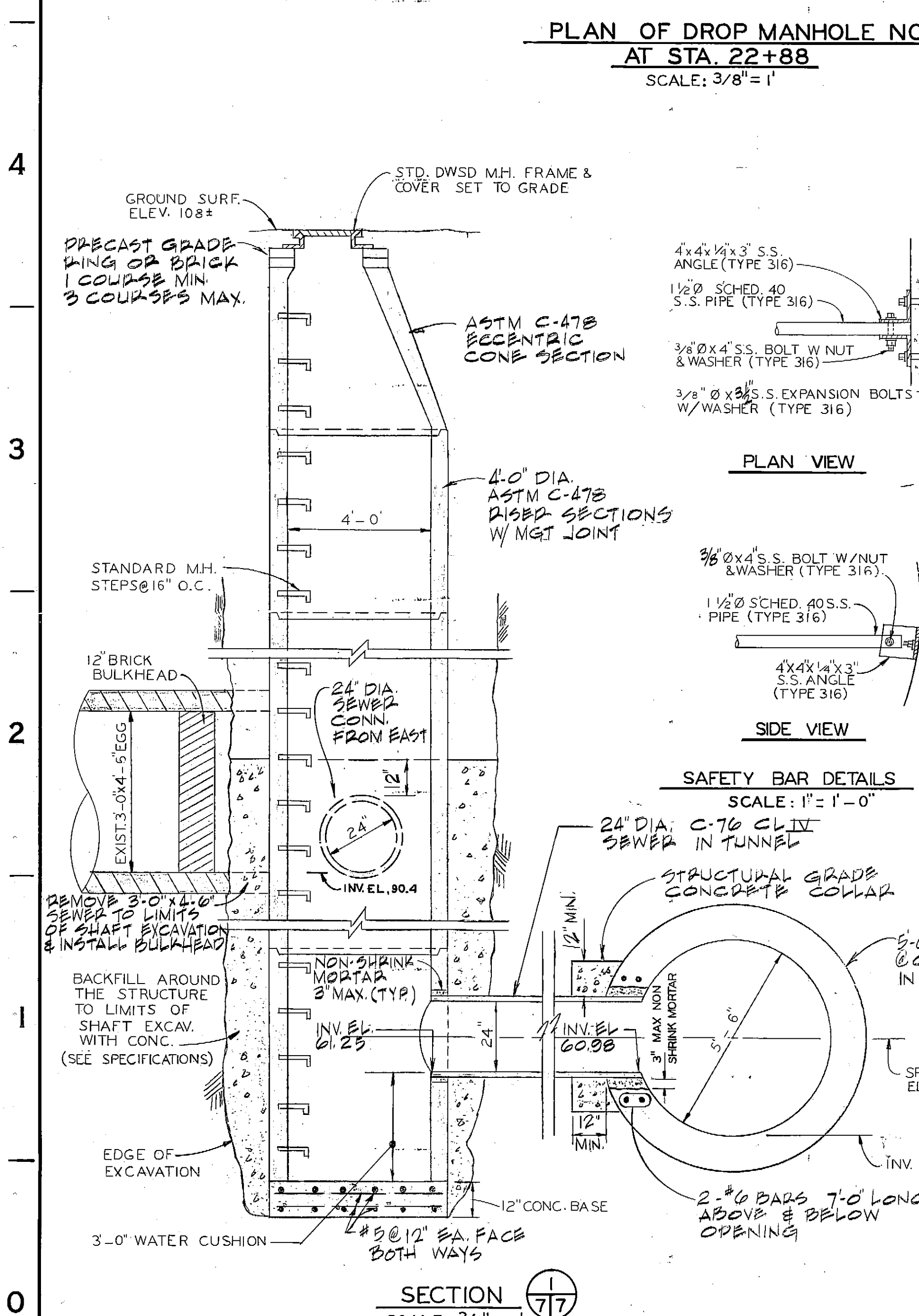
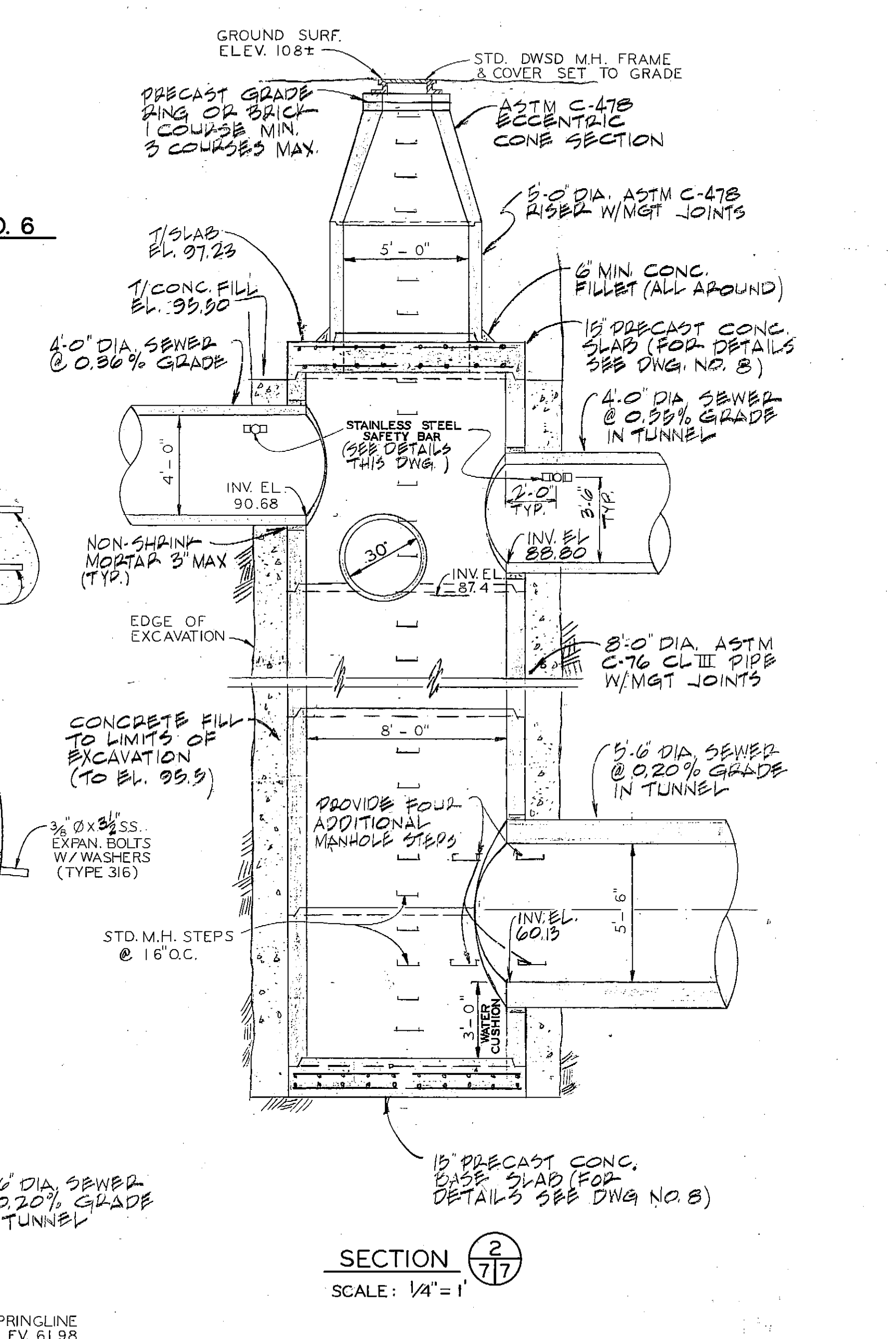
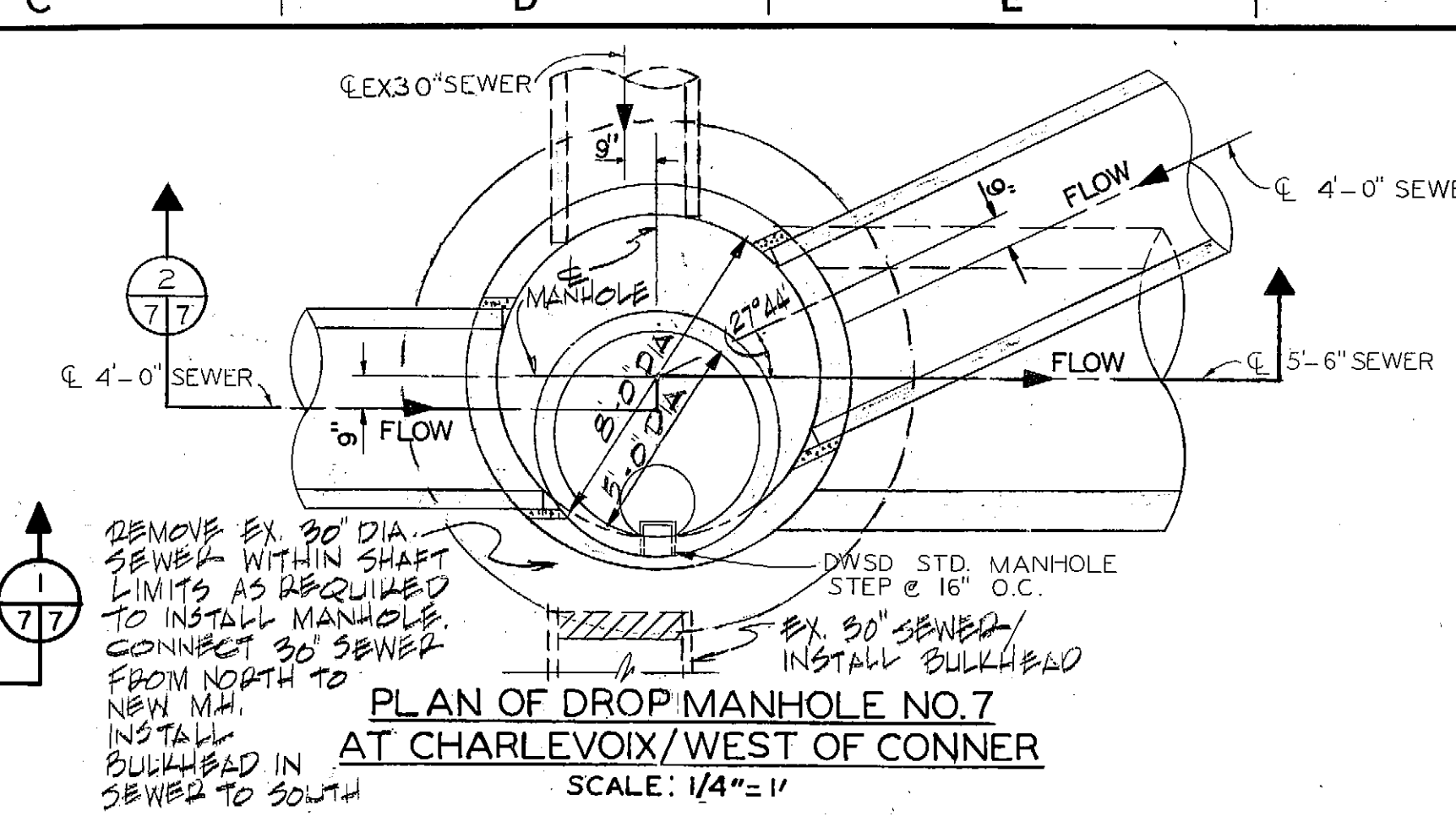
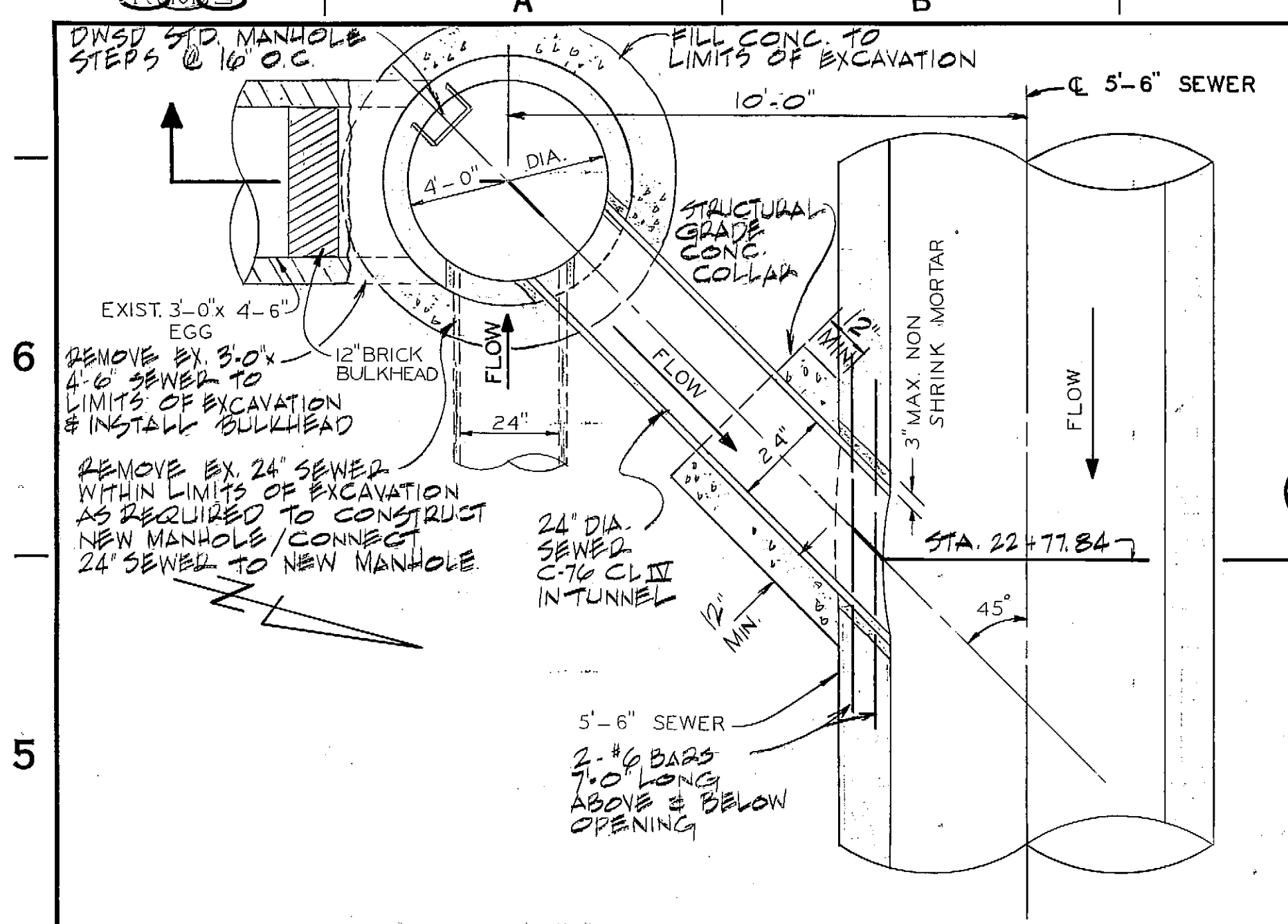
PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=10'

CONTRACTOR: BANKSTON CONSTRUCTION CO.
STARTING DATE: 10-12-88
DATE OF COMPLETION: 3-16-1990
INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
MUTABA PEMBAMOTO FIELD ENG.



REVISED TO AS BUILT
STATUS BY: T. WINFREY 6-24-91
CHECKED BY: N. LITVIN.

F DESIGNED BY: <i>A. J. J.</i>		APPROVED <i>Fred D. Watts</i> HEAD ENGINEER		CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION DEFÉR PLACE SEWER N. OF JEFFERSON TO S. OF KERCHEVAL		M.D.P.H./D.N.R. PERMIT NO. 879158	
E DRAWN BY: RDL		D CHECKED BY: <i>A. J. J.</i>		JEFFERSON CONNER INDUSTRIAL REVITALIZATION PROJECT		FED. REF. NO.	
C ENGINEER: <i>Dean Kopp</i>		B ASSISTANT DIVISION ENGINEER: <i>J. Harethas</i>		PLAN, PROFILE & UTILITIES STA. 0+00 TO STA. 6+45.7		CONTRACT NO. PCS-65	
A DIVISION ENGINEER: <i>Fred D. Watts</i>		SCALE: A.S. SHOWN		DATE: FEBRUARY, 1987		FILE NO. D-PCS-65-6	
DESCRIPTION REVISIONS		CHK'D APRVD. DATE		SECTION MAP TOWN RANGE SECTION PORTION CODE WORK ORDER NO.		S-300-966 D-PCS-65-6 DWG. 2226-6	



REVISOR: FATTORRE
 REVISION: PER FATTORRE: MH 7 & 7A REFER TO NTH 5-88 DRAWING PER DWS.D. RE-INFORCEMENT DETAIL

REVISOR: WINFREY
 REVISION: REVISED TO AS BUILT STATUS BY T. WINFREY (6-24-91)

CHECKED BY: LITVIN

CONTRACTOR: FATTORRE CONST. CO.
 STARTING DATE: 10-12-88
 DATE OF COMPLETION: 3-16-1990
 INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
 MUTABA PEMBANOTO (FIELD ENG.)

NOTE: INK DENOTES "AS BUILT" STATUS

CITY OF DETROIT
 WATER AND SEWERAGE DEPARTMENT
 ENGINEERING DIVISION
 BUDD COMPANY SEWER CONNECTION

M.D.P.H./D.N.R. PERMIT NO. 879158
 FED. REF. NO.
 CONTRACT NO. PCS-65
 FILE NO.

SECTION MAP TOWN RANGE SECTION PORTION CODE WORK ORDER NO. S-300-966

D - PCS-65-7

F					
E					
D					
C					
B					
A					
	DESCRIPTION	CHK'D	APRVD.	DATE	
	REVISIONS				

DESIGNED BY: J. Gray
 DRAWN BY: JAM
 CHECKED BY: S. Dadi's
 ENGINEER: D. Kozz

APPROVED: [Signature]
 HEAD ENGINEER

G. L. Brothers
 ASSISTANT DIVISION ENGINEER

J. [Signature]
 DIVISION ENGINEER

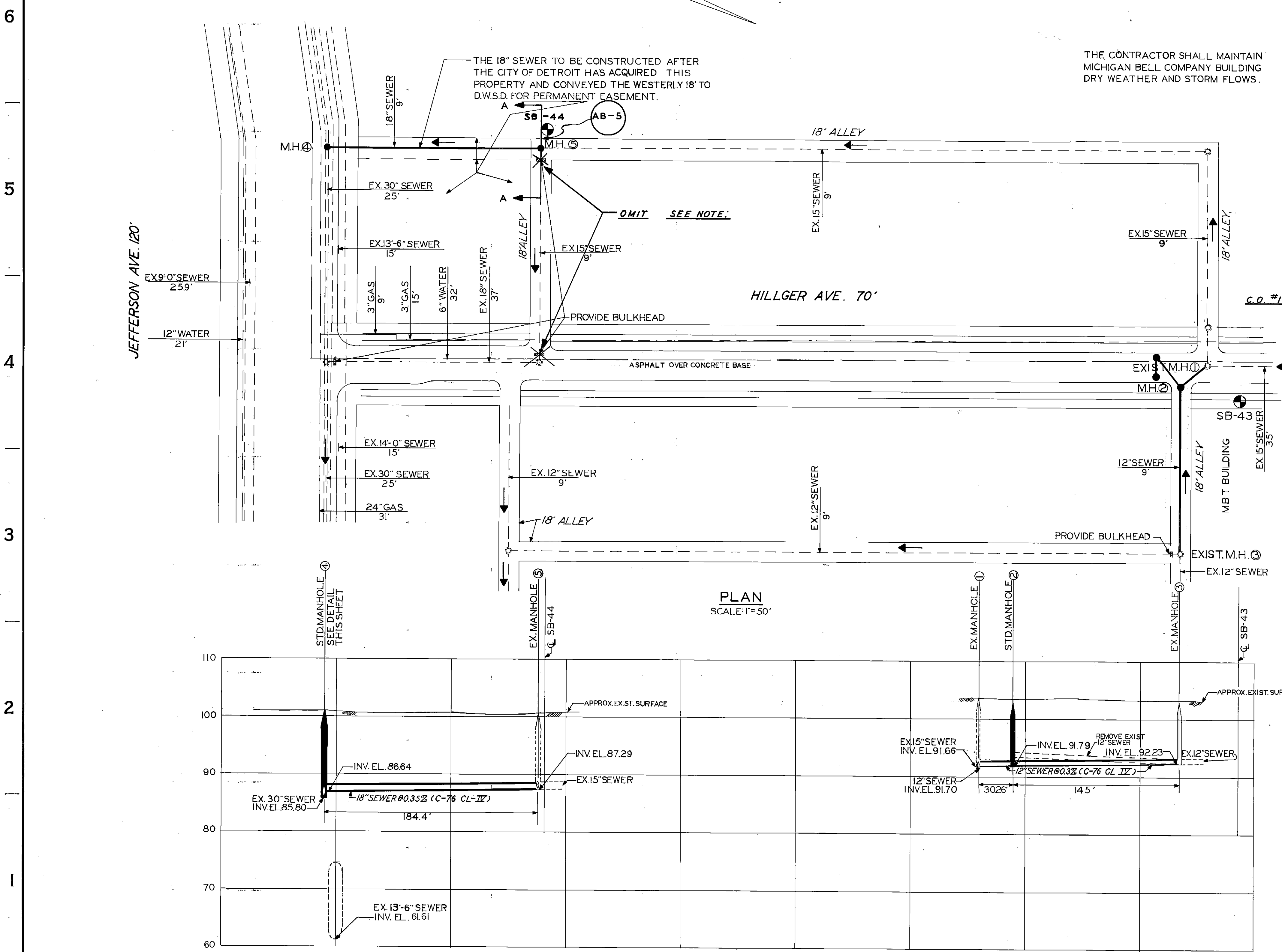
JEFFERSON / CONNER
 INDUSTRIAL REVITALIZATION PROJECT
 PLAN, PROFILE & DROP MANHOLE CONNECTION
 DETAILS

SCALE: AS NOTED

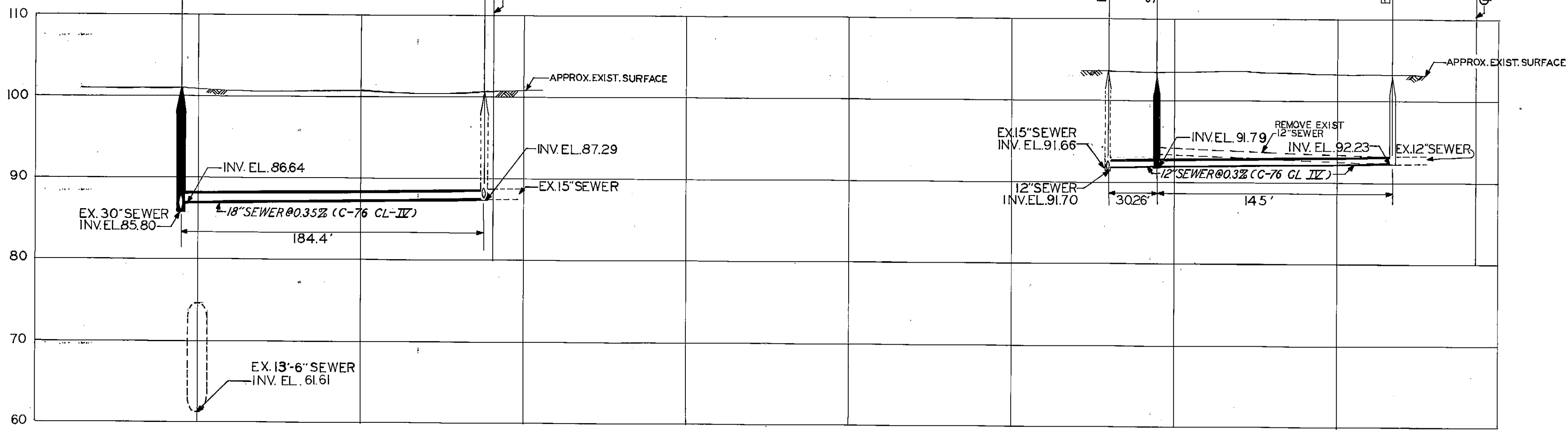
NOTE: BULKHEAD CHANGES BY REQUEST OF WALBRIDGE ALDINGER. FLOW FROM EXISTING 18" & 15" TO OUTLET THRU M.H. 5 AND M.H. 4.

THE CONTRACTOR SHALL MAINTAIN MICHIGAN BELL COMPANY BUILDING DRY WEATHER AND STORM FLOWS.

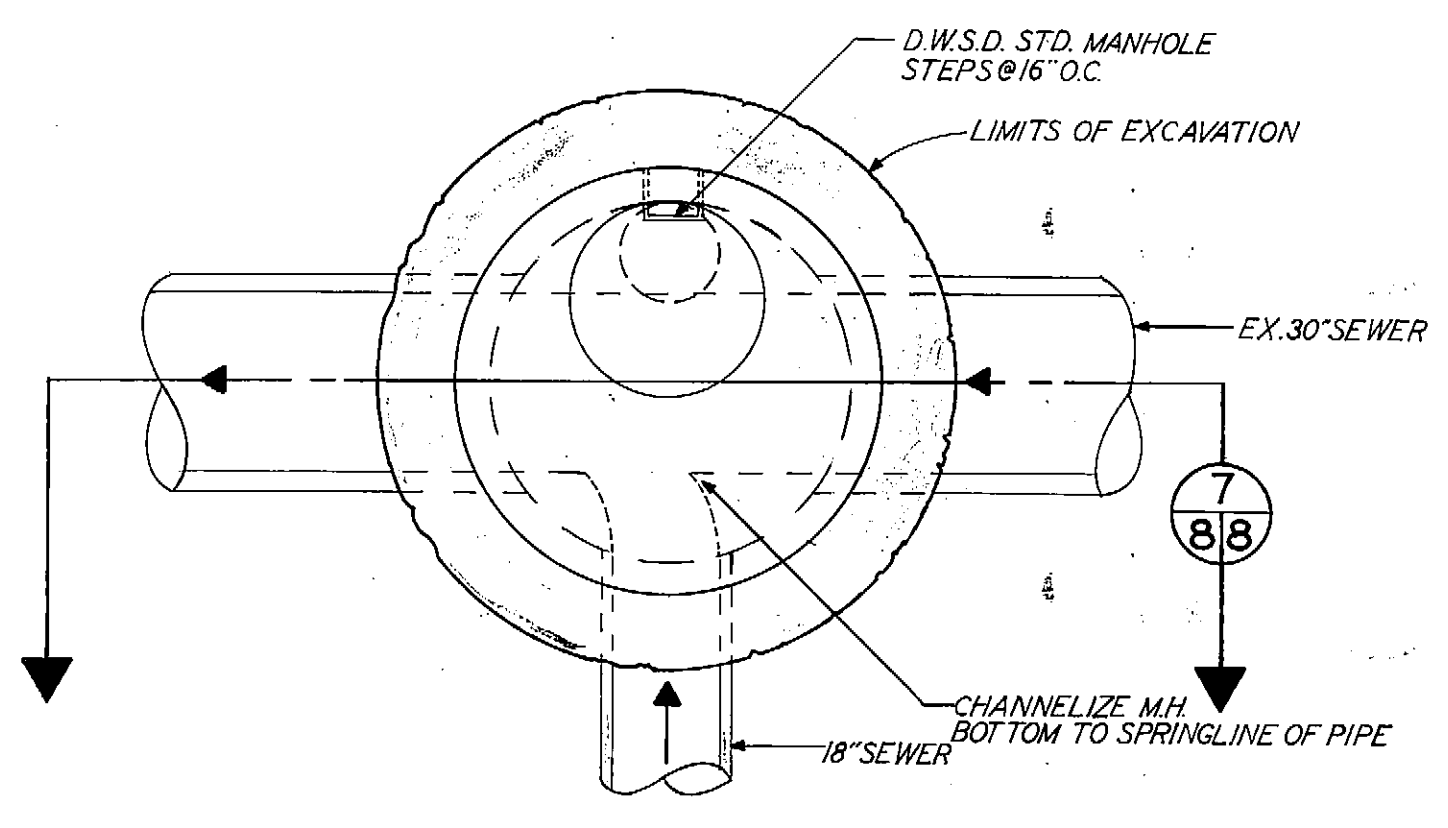
THE 18" SEWER TO BE CONSTRUCTED AFTER THE CITY OF DETROIT HAS ACQUIRED THIS PROPERTY AND CONVEYED THE WESTERLY 18' TO D.W.S.D. FOR PERMANENT EASEMENT.



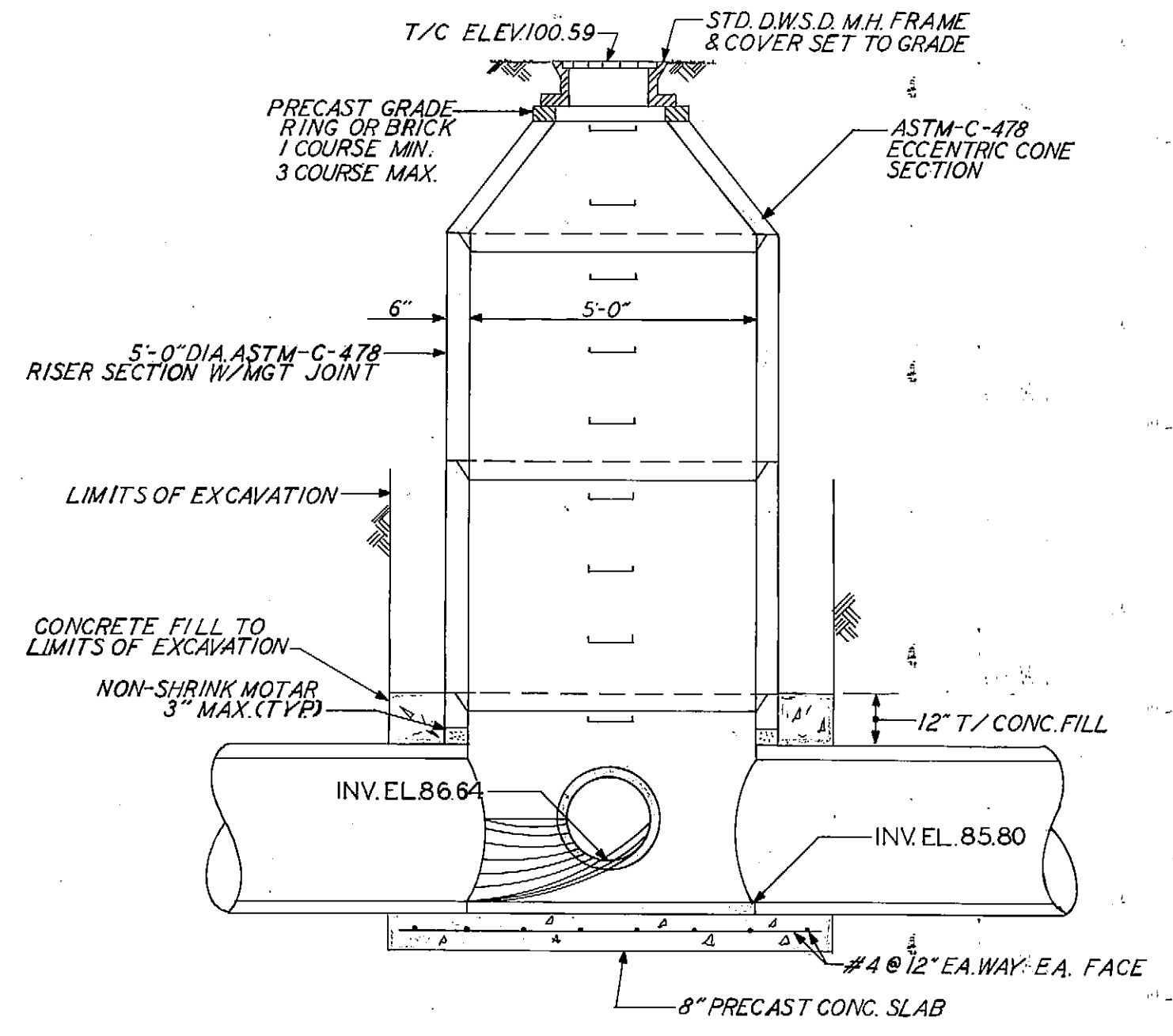
PLAN
SCALE: 1"=50'



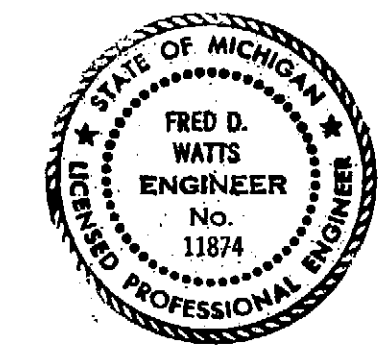
PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=10'



PLAN OF MANHOLE NO. 4
SCALE: 3/8"=1'-0"



SECTION
SCALE: 3/8"=1'-0"

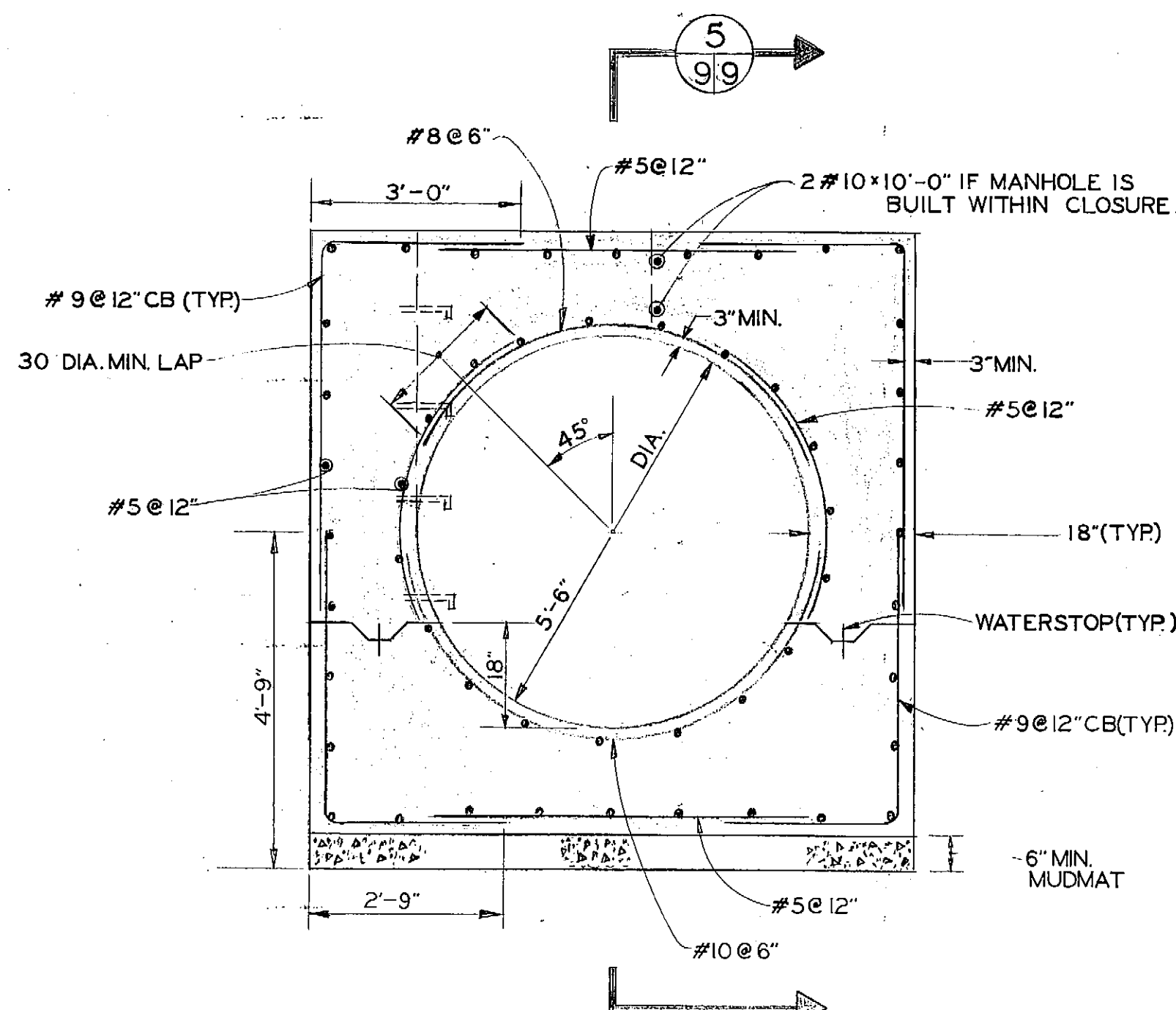


REVISED TO AS BUILT STATUS BY: T. WINFREY (6-24-91)
CHECKED BY: N. LITVIN.

CONTRACTOR: BANKSTON CONSTRUCTION CO.
STARTING DATE: 5-26-88
DATE OF COMPLETION: 7-18-88
INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
MUTABA PEMBAMOTO (FIELD ENG.)

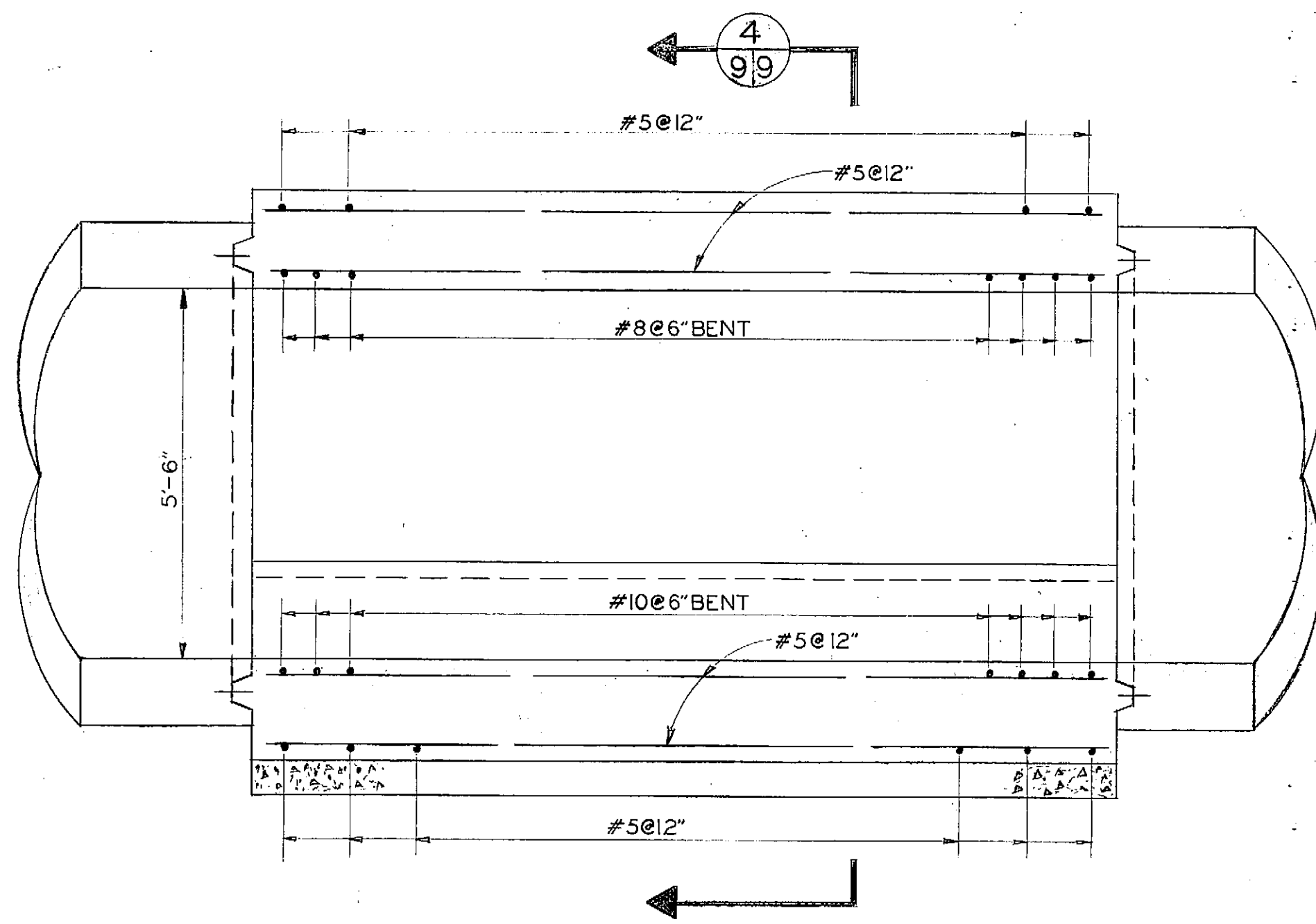
NOTE:
INK DENOTES "AS BUILT" STATUS

F E D C B A	DESIGNED BY	APPROVED	JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT PLAN, PROFILE & UTILITIES SCALE: AS NOTED DATE: FEBRUARY, 1987	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION MBT SEWER AND SEWER IN EASEMENT WEST OF HILLGER	M.D.P.H./D.N.R. PERMIT NO.					
	DRAWN BY	HEAD ENGINEER			FED. REF. NO.					
	CHECKED BY	ASSISTANT DIVISION ENGINEER			CONTRACT NO.					
	ENGINEER	DIVISION ENGINEER			FILE NO.					
	DESCRIPTION REVISIONS	CHK'D			APRVD.	DATE	SECTION MAP	TOWN	RANGE	SECTION
									S-300-966	D-PCS-65-8

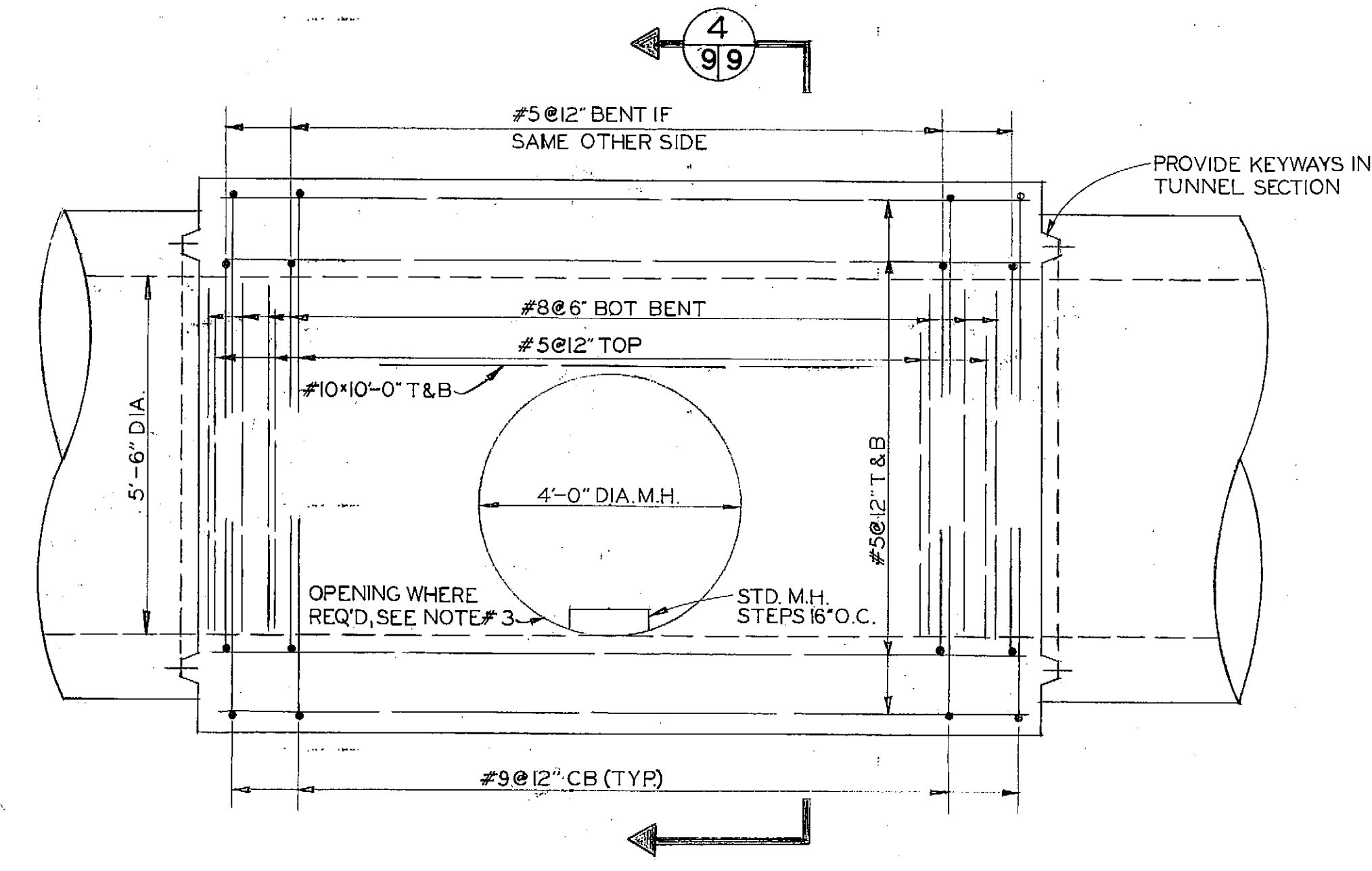


SECTION $\frac{4}{99}$

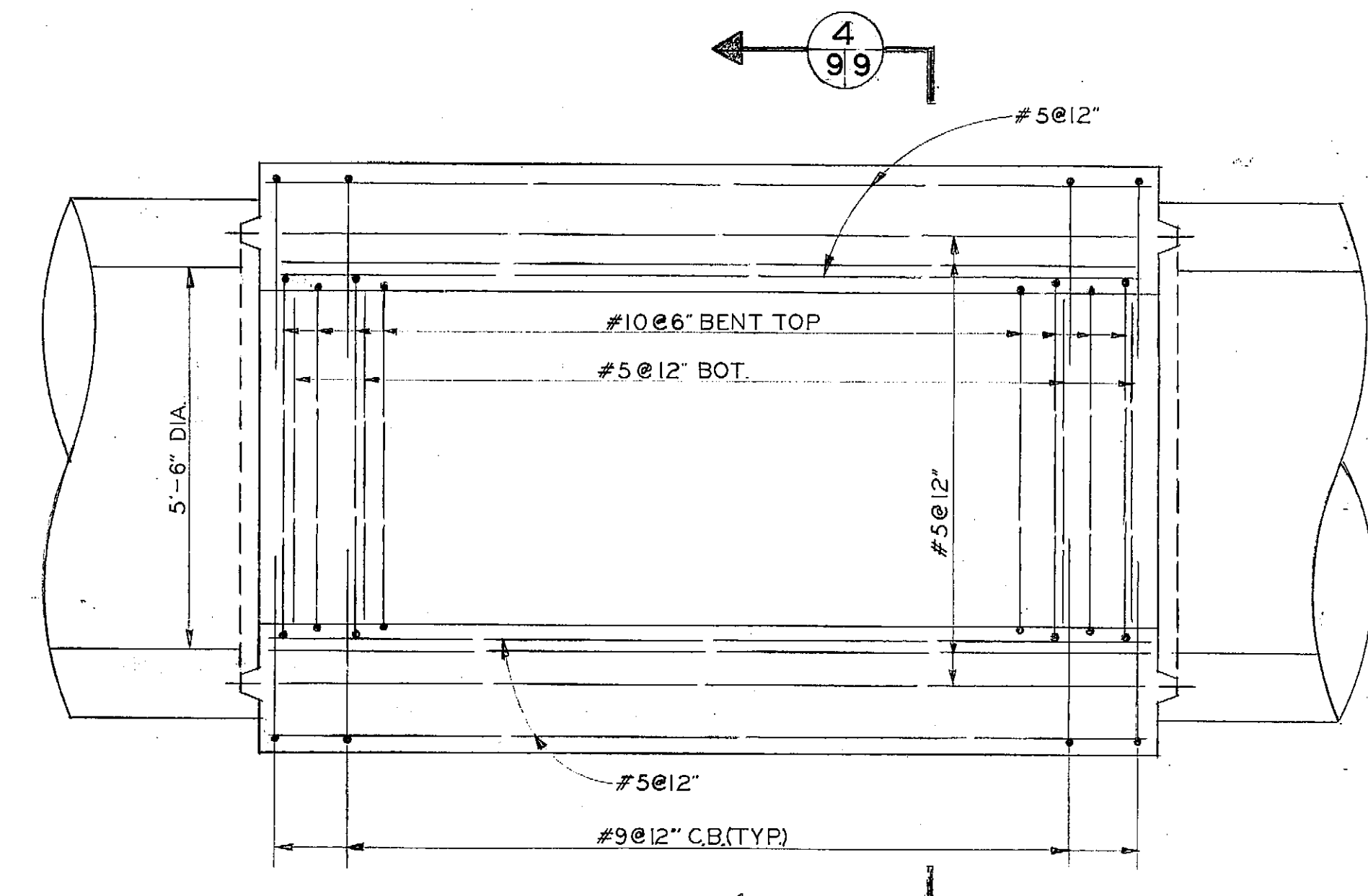
- NOTES:
1. LENGTH OF CLOSURE SECTION DETERMINED BY LENGTH OF CONSTRUCTION SHAFT.
 2. IF M.H. IS CALLED FOR ON THE PLAN & PROFILE SHEETS AT LOCATION OF CLOSURE, THEN THE M.H., M.H. STEPS AND LEDGES SHALL BE AS CALLED FOR ON STD. M.H. DETAIL.



SECTION $\frac{5}{99}$

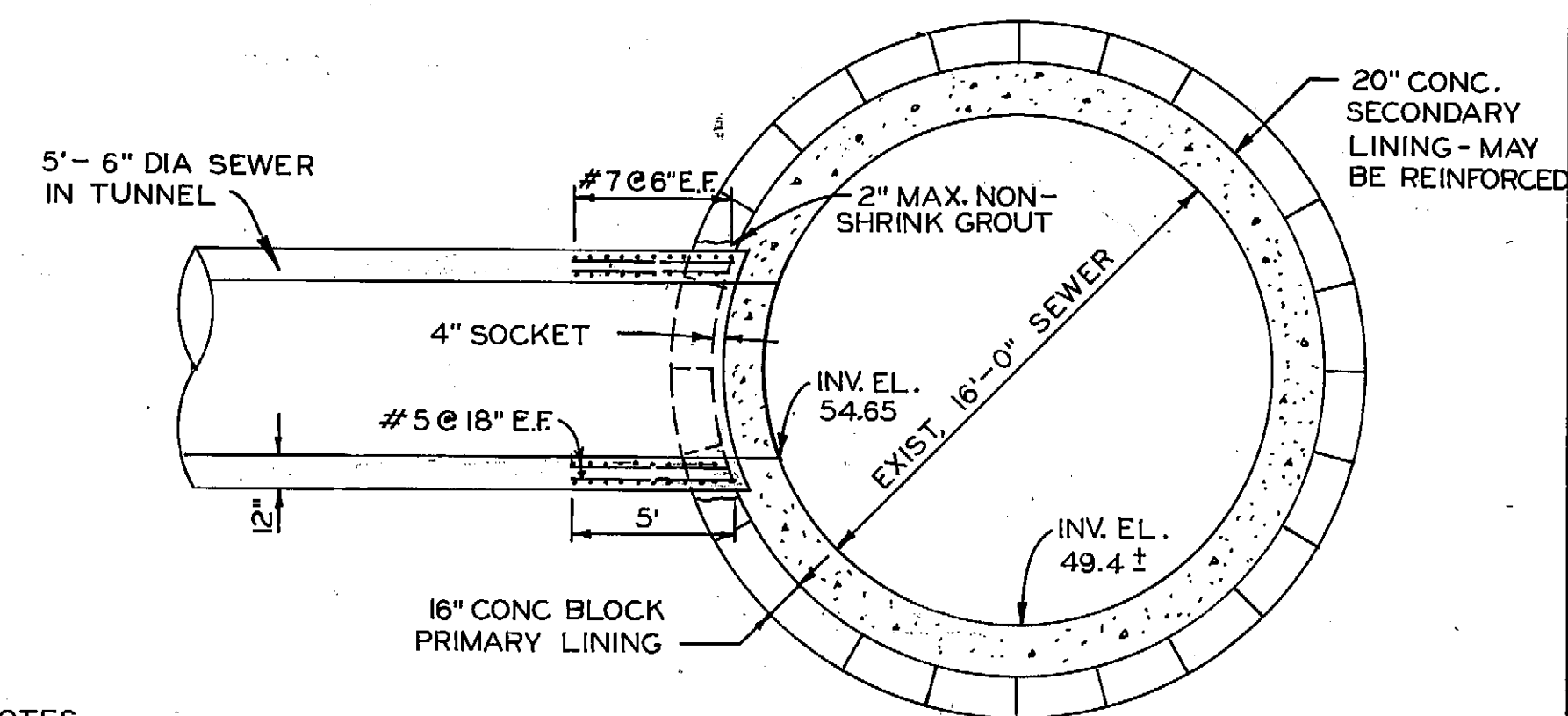


ROOF PLAN



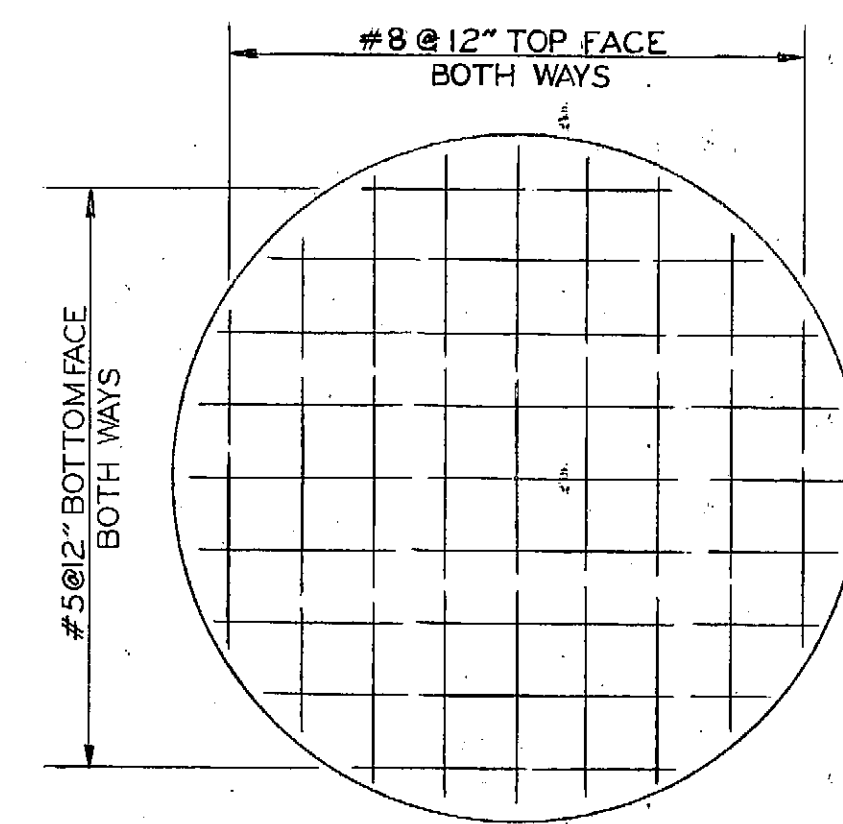
FLOOR PLAN AT CONSTRUCTION JOINT

DETAILS OF SHAFT CLOSURE SCALE: $\frac{1}{2}'' = 1'-0''$

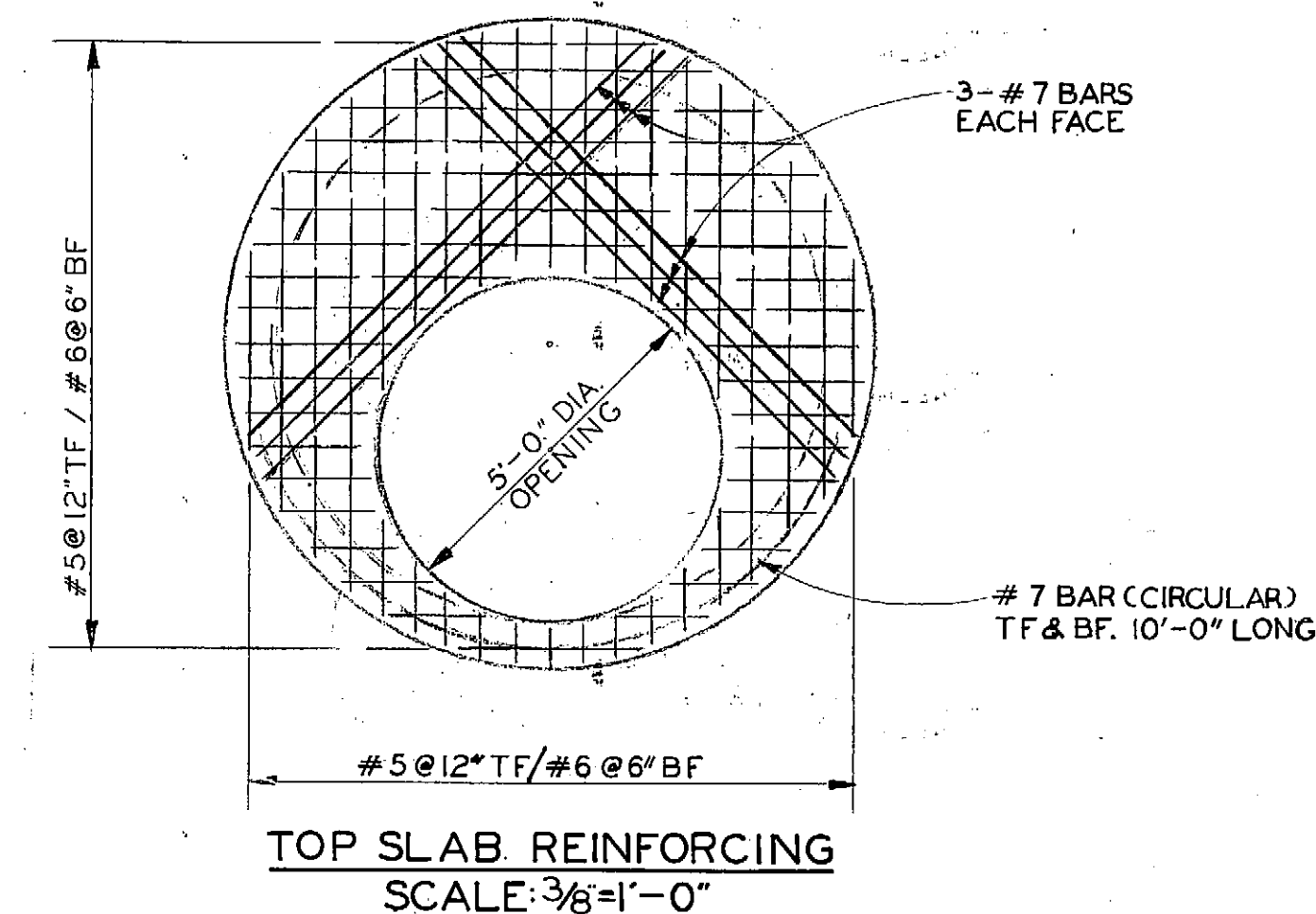


DETAIL OF CONNECTION SCALE: $\frac{3}{16}'' = 1'-0''$

- NOTES:
1. PRIMARY LINING OF EXISTING 16'-0" DIA. SEWER MAY BE OTHER THAN AS SHOWN. TUNNEL SECTION OPTIONS ALLOWED FOR SEWER CONSTRUCTION WERE:
 - A. FULL RING STEEL RIBS AND WOOD LAGGING
 - B. STEEL LINER PLATES
 - C. PRECAST CONCRETE BLOCKS
 - D. ONE-HALF RING STEEL RIBS & LAGGING AND ONE-HALF RING CONCRETE BLOCKS.
 2. THE CONTRACTOR SHALL USE WHATEVER MEANS AND METHODS THAT ARE NECESSARY TO PRECLUDE DEBRIS FROM DROPPING INTO THE EXISTING SEWER. ANY DEBRIS THAT DOES FALL INTO THE SEWER SHALL BE REMOVED IMMEDIATELY.

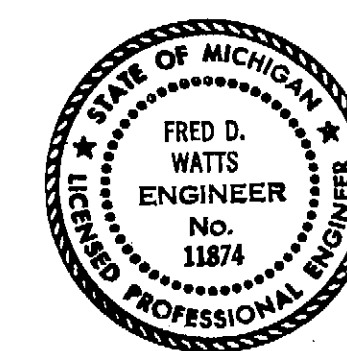


BOTTOM SLAB REINFORCING SCALE: $\frac{3}{8}'' = 1'-0''$



TOP SLAB REINFORCING SCALE: $\frac{3}{8}'' = 1'-0''$

DETAILS OF 8'-0" DIA. DROP MANHOLE NO. 7



F				
E				
D				
C				
B				
A				
	DESCRIPTION	CHK'D	APRVD.	DATE
	REVISIONS			

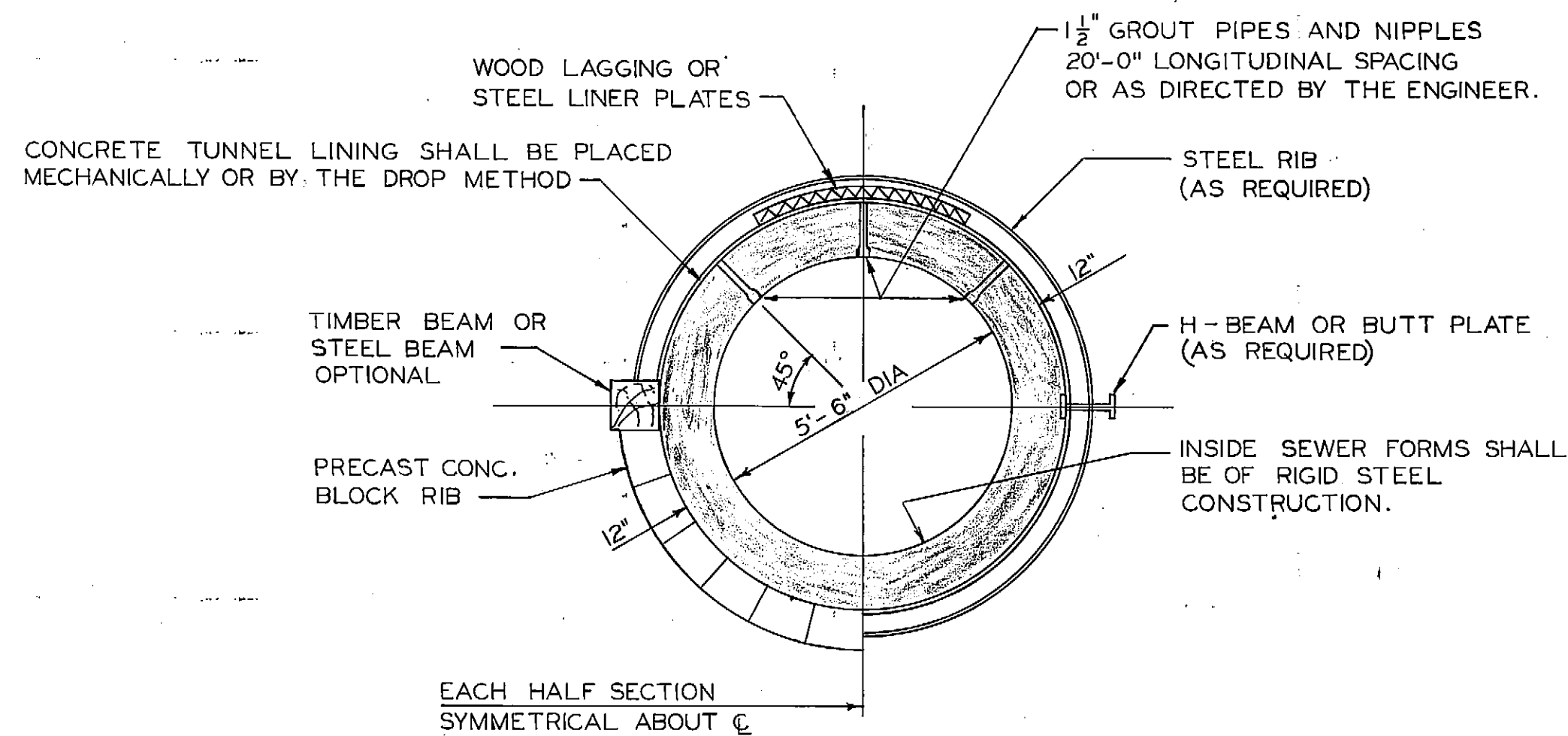
DESIGNED BY *H. Gray*
 DRAWN BY *M.B.*
 CHECKED BY *[Signature]*
 ENGINEER *[Signature]*

APPROVED
[Signature] HEAD ENGINEER
[Signature] ASSISTANT DIVISION ENGINEER
[Signature] DIVISION ENGINEER

JEFFERSON / CONNER
 INDUSTRIAL REVITALIZATION PROJECT
 DETAILS OF SHAFT CLOSURE, CONNECTION,
 AND 8'-0" DIA. DROP MANHOLE NO. 7
 SCALE: AS SHOWN
 DATE: FEBRUARY, 1987

67611 CITY OF DETROIT
 WATER AND SEWERAGE DEPARTMENT
 ENGINEERING DIVISION
 CHARLEVOIX - ALGONQUIN SEWER
 FROM CONNER LANE TO KERCHEVAL AVE.
 SECTION MAP TOWN RANGE SECTION PORTION CODE WORK ORDER NO.
 S-300-966

M.D.P.H./D.N.R. PERMIT NO. 879158
 FED. REF. NO.
 CONTRACT NO. PCS-65
 FILE NO.
 D-PCS-65-9



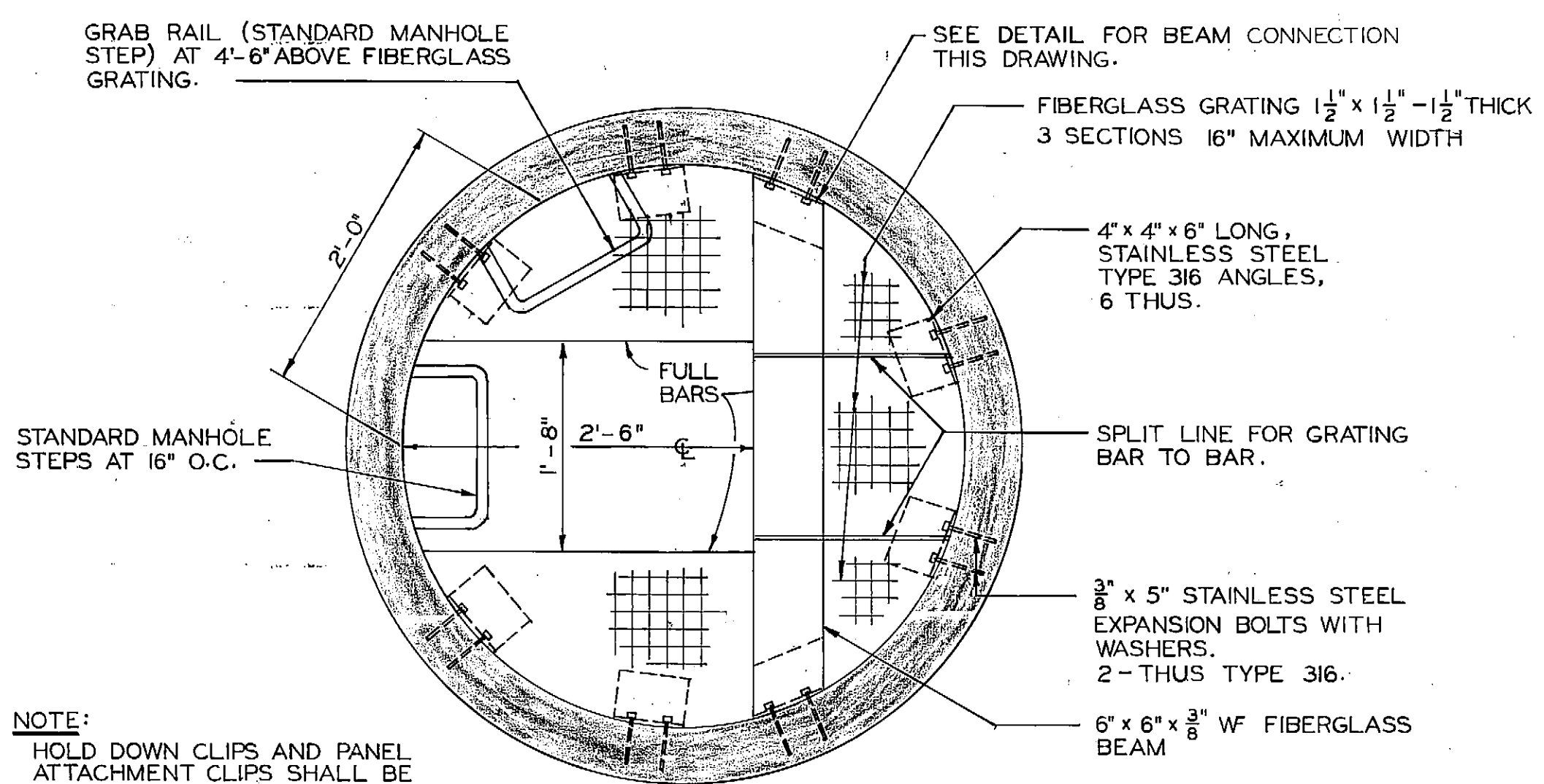
STEEL ARCH WITH CONCRETE BLOCK INVERT

COMPLETE STEEL RIBS (2-PIECE RING SHOWN A 3-PIECE RING SYSTEM MAY BE USED AS APPROVED)

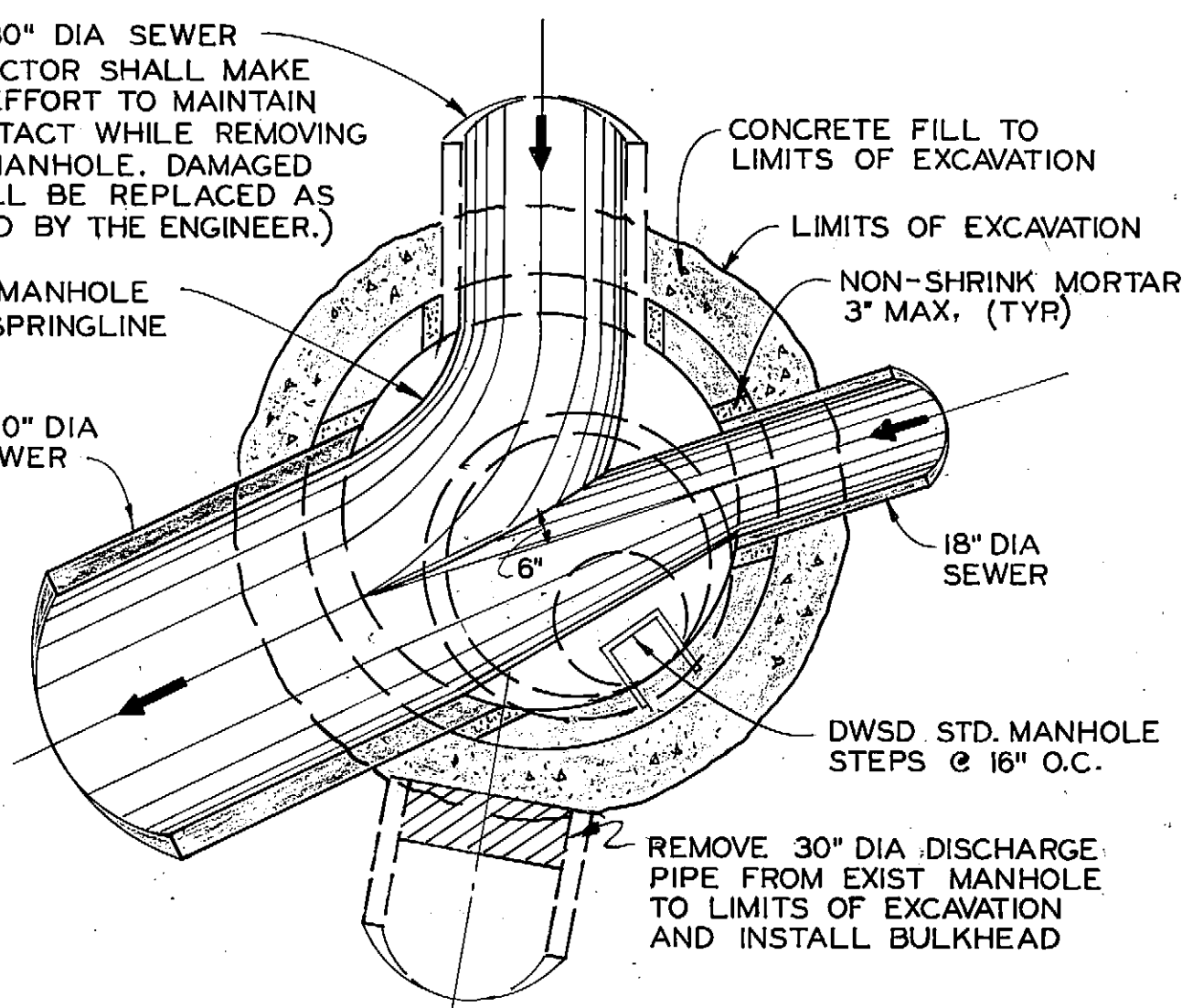
NOTES:

- 1 PROTRUSION OF STEEL RIBS AND TIMBER BEAMS INTO THE SEWER WALL WILL NOT BE PERMITTED.
- 2 PROTRUSION OF H-BEAM INTO THE SEWER WALL SHALL NOT EXCEED 1".
- 3 PROTRUSION OF BUTT PLATES INTO THE SEWER WALL SHALL NOT EXCEED 2 1/2".
- 4 SEE DETAILED SPECIFICATIONS SECTION ENTITLED "EXCAVATION", FOR OTHER REQUIREMENTS REGARDING THE DETAILS SHOWN.
- 5 OTHER MEANS AND METHODS OF EARTH SUPPORTS WILL BE CONSIDERED. SEE DETAILED SPECIFICATIONS UNDER SECTION ENTITLED "EXCAVATION"

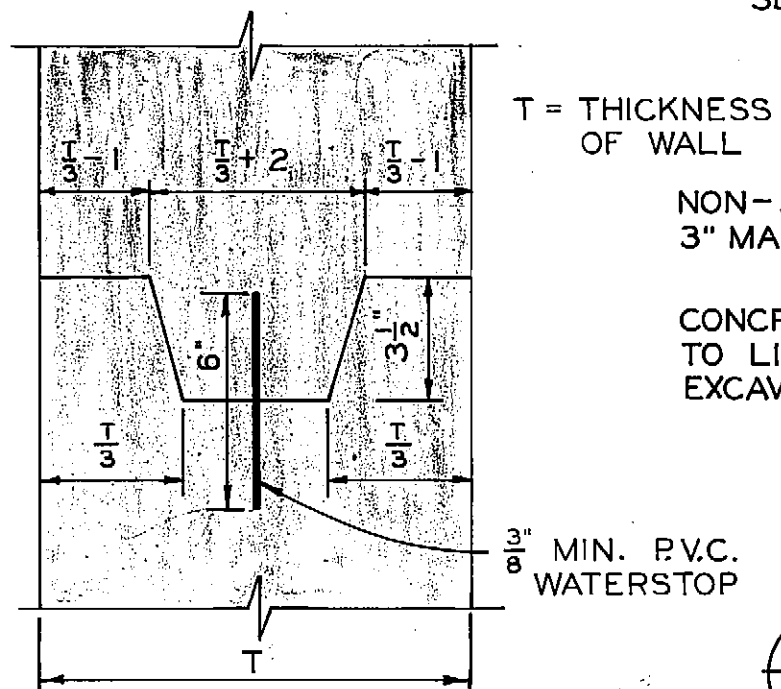
TYPICAL TUNNEL SECTION NOT TO SCALE



PLAN OF GRATING 4'-0" DIA. WELL SCALE: 1" = 1'-0"

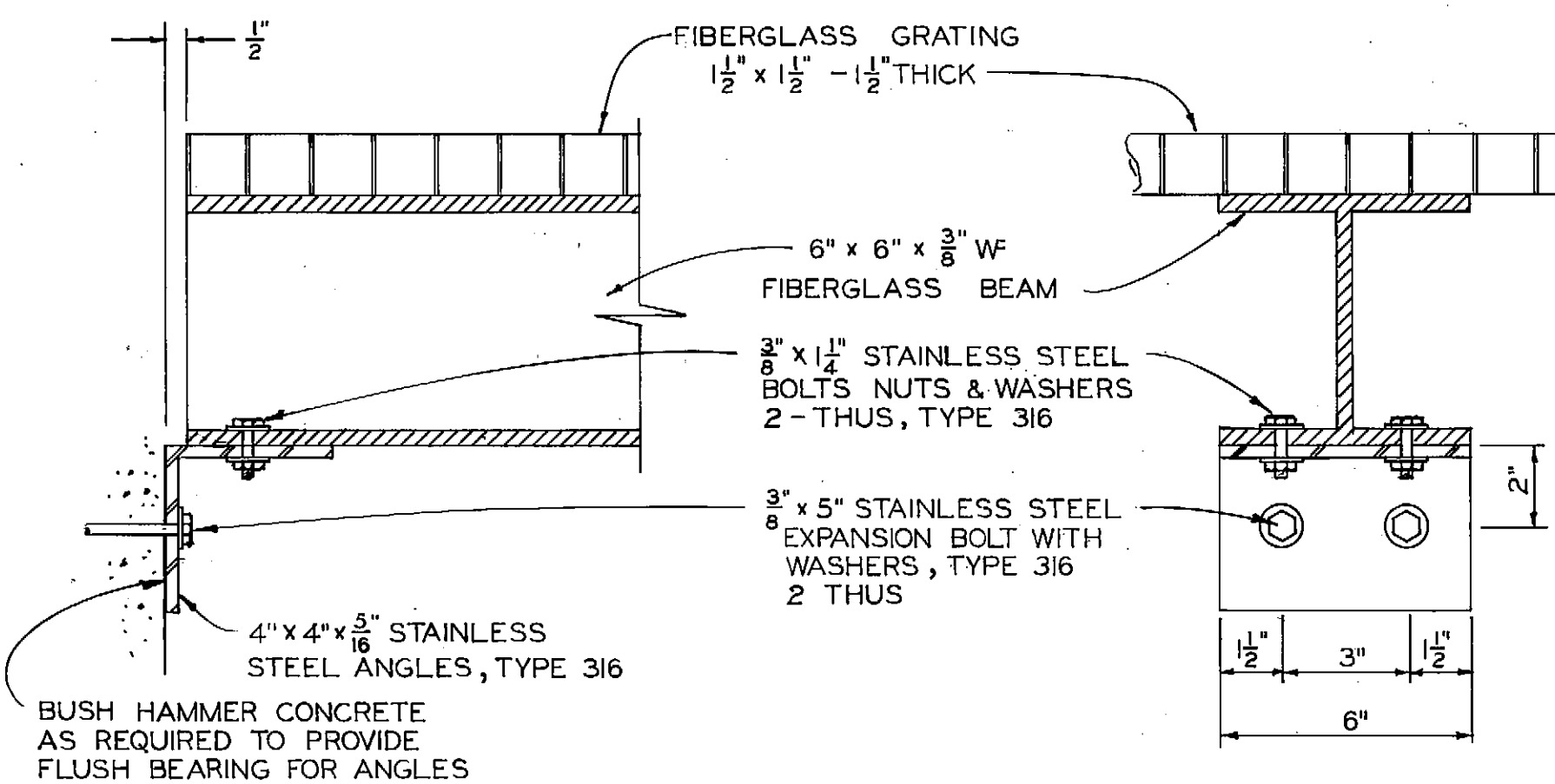


SECTION 6 SCALE: 3/8" = 1'-0"



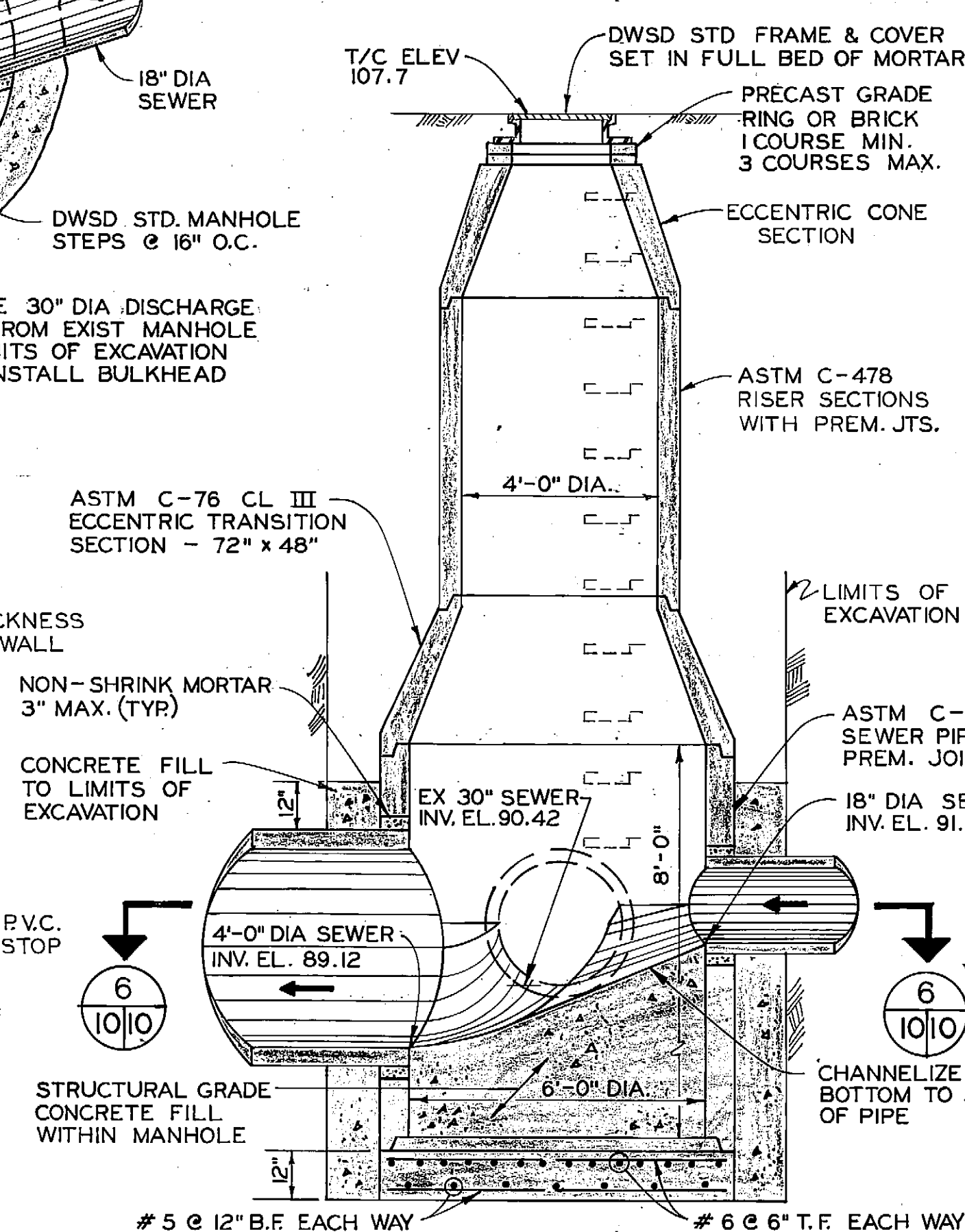
NOTE: WATERSTOPS SHALL BE PLACED IN ALL CONSTRUCTION JOINTS.

CONSTRUCTION JOINT AND WATER STOP DETAIL NOT TO SCALE



DETAIL OF BEAM CONNECTION FOR FIBERGLASS BEAM NOT TO SCALE

NOTE: EXISTING MANHOLE NO. 13 TO BE REMOVED AND REBUILT AS DETAILED.



MANHOLE NO. 13 VERTICAL SECTION - LOOKING NORTH SCALE: 3/8" = 1'-0"

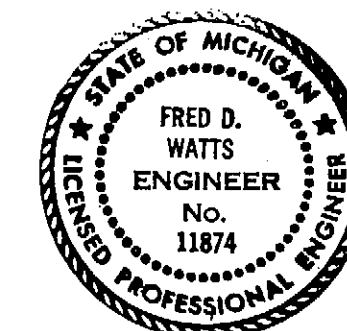
DEPTH "D" (FT)	NO OF FIBERGLASS GRATING REQUIRED
0-35	1
35-60	2
60-85	3
85-110	4

FIBERGLASS GRATING IS ALWAYS REQUIRED AT CROWN OF SEWER AT ANY DEPTH "D".

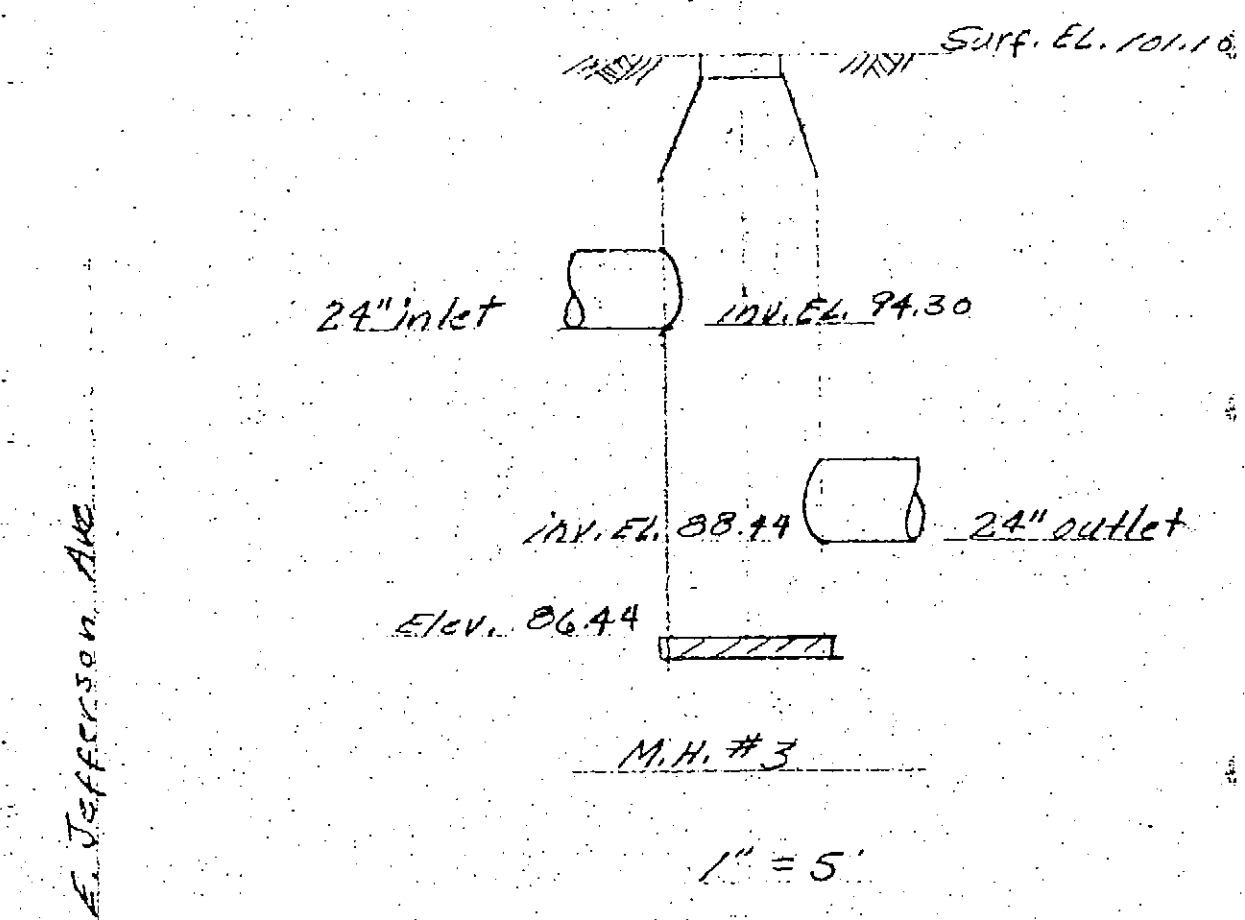
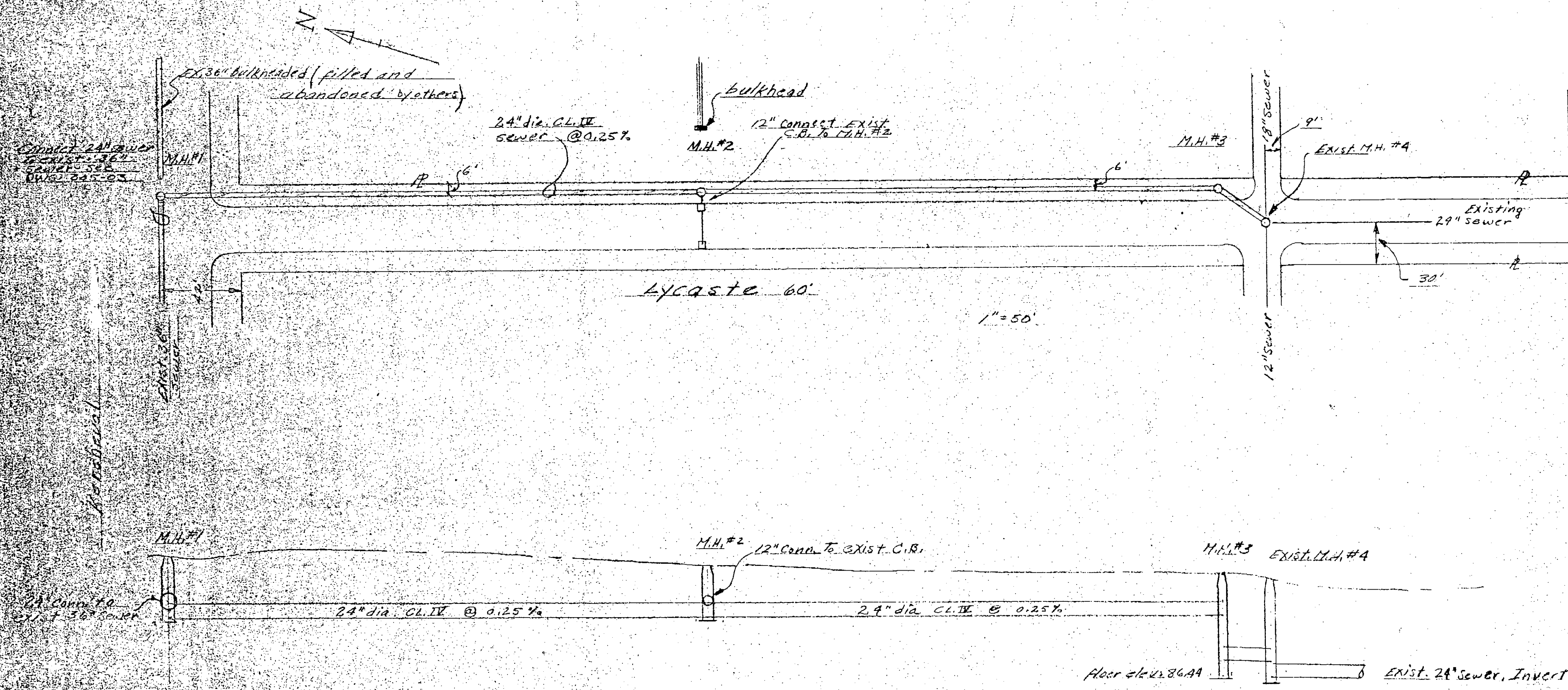
NOTES:

1. MANHOLES SHALL BE BUILT ON THE SIDE OF THE SEWER SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
2. FOR MANHOLE STEP DETAILS SEE DRAWING ENTITLED ALUMINUM MANHOLE STEP STANDARD DETAILS IN THE DETAILED SPECIFICATIONS AT THE END OF SECTION 7 "MASONRY".
3. FOR STD. MANHOLE DETAILS FOR CONC. PIPE SEWERS, SEE APPENDIX OF THE SPECIFICATIONS.

4'-0" DIA. PRECAST MANHOLE (TUNNEL PORTION ONLY) SCALE: 1/2" = 1'-0"



F				DESIGNED BY <i>H. Gray</i>	APPROVED <i>Fred Wats</i>	JEFFERSON / CONNER INDUSTRIAL REVITALIZATION PROJECT MISCELLANEOUS DETAILS SCALE: AS SHOWN DATE: FEBRUARY, 1987	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION CHARLEVOIX - ALGONQUIN SEWER FROM CONNER LANE TO KERCHEVAL AVE.	M.D.P.H./D.N.R. PERMIT NO. 879158					
E			DRAWN BY <i>S.T. DIOSO</i>	HEAD ENGINEER <i>J.L. Carethers</i>	FED. REF. NO.								
D			CHECKED BY <i>A. J. J. J.</i>	ASSISTANT DIVISION ENGINEER <i>Fred Wats</i>	CONTRACT NO. PCS-65								
C			ENGINEER <i>Dennis King</i>	DIVISION ENGINEER	FILE NO.								
A			DESCRIPTION	CHK'D	APRVD.			DATE	SECTION MAP	TOWN	RANGE	SECTION	PORTION CODE

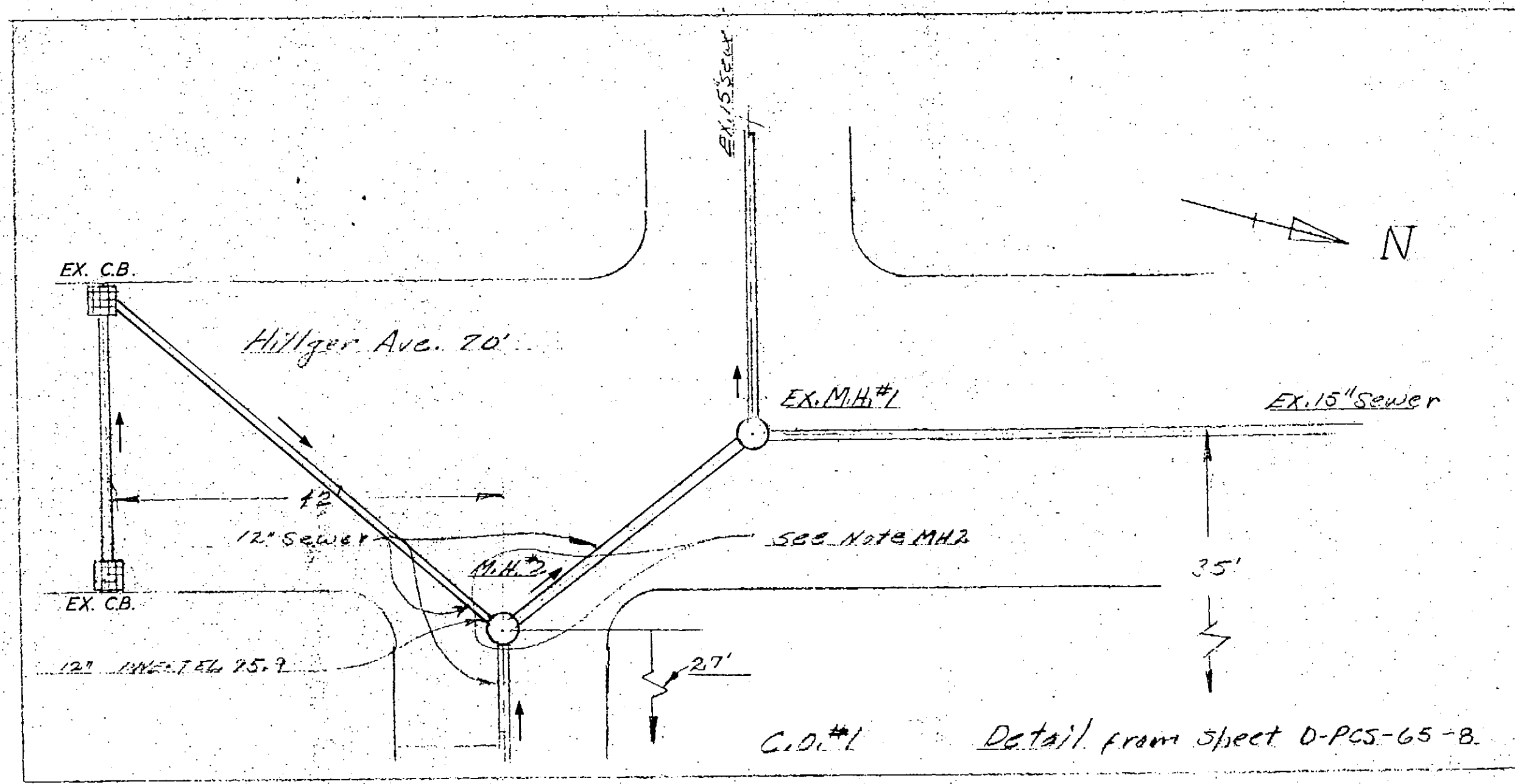
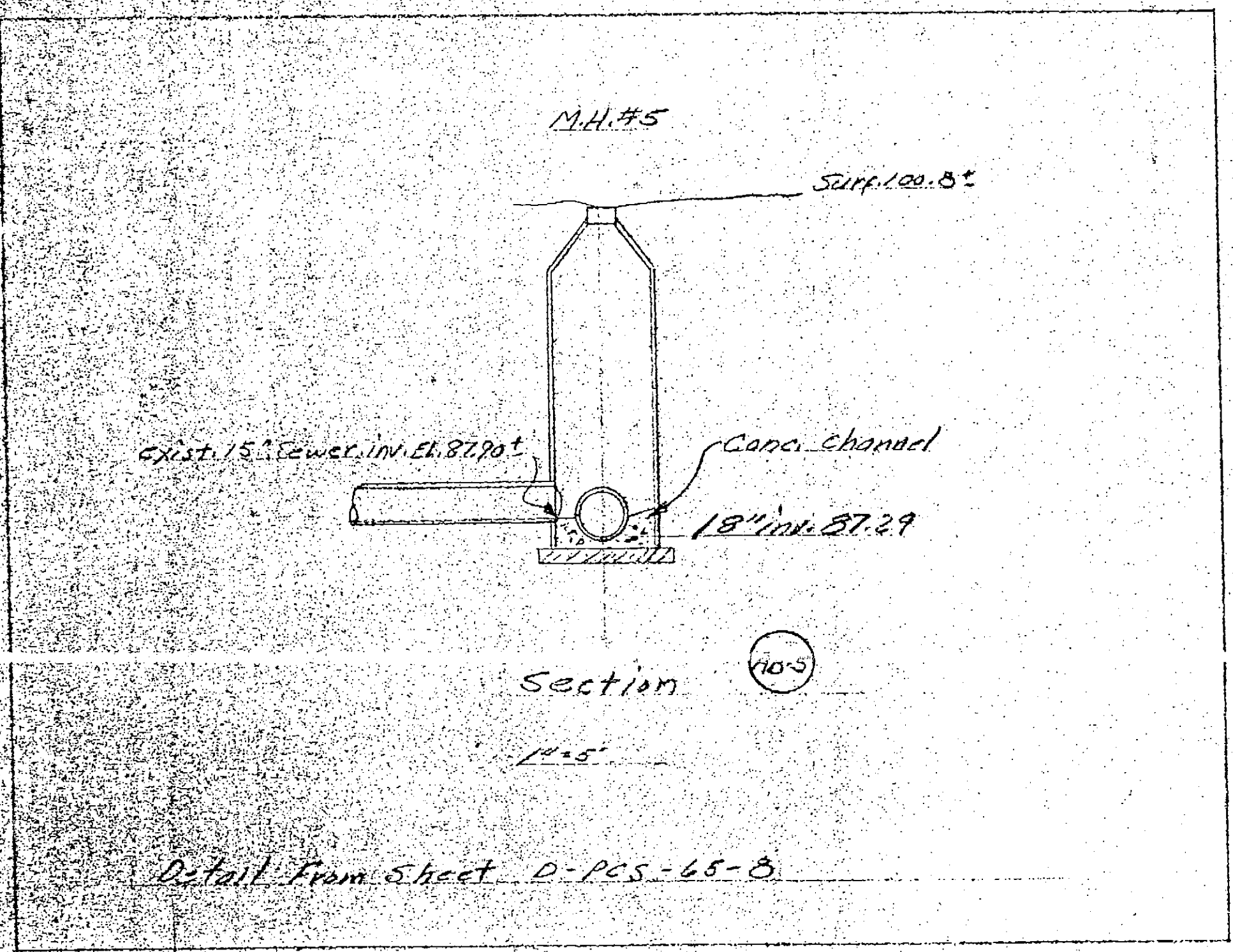


Station	0+00	3+85	7+53	7+91
Surface Elev.	129.31	103.20	104.10	100.59
Invert Elev.	96.21	25.24	inlet 94.3	28.29
Cur. To Invert	2.1	8.09	6.8	12.25
			outlet 88.44	12.66

1"=50' horiz. 1"=10' vertical

C.O. # 3

Note: M.H.#2 is located per plan sheet D-PCS-65-B. Any approach shown no longer exists. Existing drive in this area is not shown on this plan.



Supplementary As-Built Drawings

CONTRACTOR: BANKSTON CONST. CO.
 STARTING DATE: 10-12-88
 DATE OF COMPLETION: 3-16-1990
 INSPECTION: SHIRLEEN GAINES (PRINC. INSP.)
 MUTABA PENBAMOTO (FIELD ENG.)

NOTE:
 INK DENOTES "AS BUILT" STATUS
 REVISED TO A.B. STATUS BY: FATTOR CONST. CO.
 CHECKED BY:

HILLGER-DEFER SEWER		
SCALE	APPROVED BY	DRAWN BY PHS
DATE	REVISION	
Job No. PCS-65 ; B.1 Pack 6150305		
DRAWING NUMBER		AB-1