STARK COUNTY METROPOLITAN SEWER DISTRICT
PROJECT NO. 429 SANITARY SEWERS

CONTRACT I (EPA C390752-02)

CITY OF MASSILLON - JACKSON TOWNSHIP

STARK COUNTY, OHIO - 1981

• APPROVALS •

APPROVED BY: DATE:

MASSILLON SAFETY & SERVICE DIRECTOR

MASSILLON CITY ENGINEER

• STARK COUNTY COMMISSIONERS •

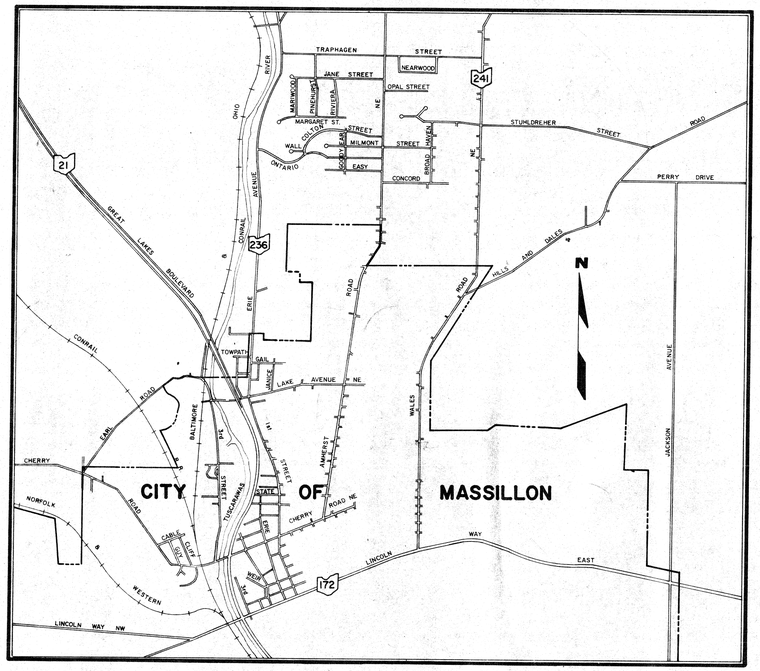
PRESIDENT

MEMBER

MEMBER

STARK COUNTY SANITARY ENGINEER

• LIST OF DRAWINGS •



LOCATION MAP

0 1000 2000 3000 4000 6000

SCALE IN FEET

• STARK COUNTY OFFICIALS •

COMMISSIONER	NORMAN W. SPONSELLER
COMMISSIONER	RICHARD D. WATKINS
COMMISSIONER	JERRY PATRICK
COUNTY ADMINISTRATOR	ROBERT A. FONTE
COUNTY SANITARY ENGINEER	MICHAEL S. ARMOGIDA
COUNTY AUDITOR	WILLIAM BOWMAN
PROSECUTING ATTORNEY	JAMES UNGER

• CITY OF MASSILLON OFFICIALS •

MAYOR	DELBERT A. DEMMER
DIRECTOR OF SAFETY & SERVICE	TED C. WILLOUGHBY
LAW DIRECTOR	THOMAS V. FERRERO
AUDITOR	BARBARA A. WORKMAN
TREASURER	WILLIAM Z. CHRISTOFF
ENGINEER	ROBERT WAGONER
WASTE & WASTEWATER SUPT.	ROBERT BUSHMAN

• COUNCIL •

PRESIDENT OF COUNCIL	RONALD E. MANG
COUNCILMAN-AT-LARGE	HELEN MAIER
COUNCILMAN-AT-LARGE	FRANCIS H. CICCHINELLI, JR.
COUNCILMAN-AT-LARGE	TONY EAGLOWSKI
WARD ONE	SONNY SPIELMAN
WARD TWO	DAVID P. MOLEDOR
WARD THREE	DAVID SMITH
WARD FOUR	T. ROY ROBERSON
WARD FIVE	MARK BAN BOORHIS
WARD SIX	THOMAS D. BRENNAN

• JACKSON TOWNSHIP BOARD OF TRUSTEES •

C. STEPHEN AYERS PATTY MILLER

ALLEN McCLURG

NOTE

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

(N) THIS SYMBOL INDICATES A CRITICAL BASEMENT THAT HAS INFLUENCED THE ELEVATION OF THE MAIN LINE SEWER. SPECIAL ATTENTION MUST BE EXERCISED REGARDING LATERAL LOCATION AND GRADE AT THE TIME OF CONSTRUCTION TO INSURE PROPER CONNECTION OF THE HOUSE LATERAL.

PREPARED BY

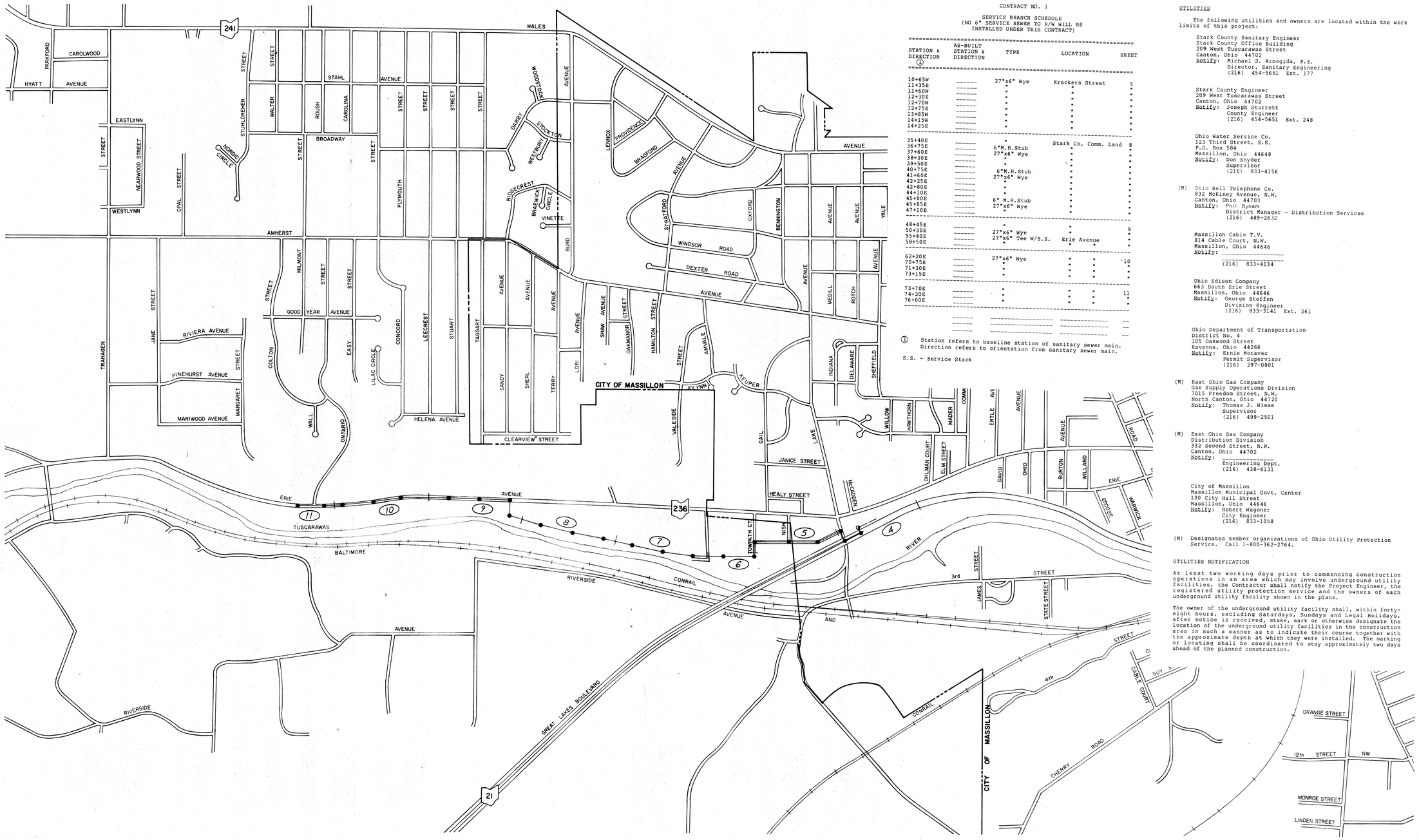
FRANK A. THOMAS & ASSOCIATES, INC.

CONSULTING ENGINEERS

WILLOUGHBY - NORTH CANTON, OHIO

FINAL MEAS.

PROJ. No. 429 CONT. No. 1 FILE No. 14



CONTRACT NO. 1

SERVICE BRANCH SCHEDULE
(NO 6" SERVICE SEWER TO R/W WILL BE INSTALLED UNDER THIS CONTRACT)

STATION & DIRECTION ①	AS-BUILT STATION & DIRECTION	TYPE	LOCATION	SHEET
10+65W	-------	27"x6" Wye	Krackers Street	5
11+35E	-------	"	"	"
11+60W	-------	"	"	"
12+30E	-------	"	"	"
12+70W	-------	"	"	"
12+75E	-------	"	"	"
13+85W	-------	"	"	"
14+15W	-------	"	"	"
14+25E	-------	"	"	"
35+40E	-------	"	Stark Co. Comm. Land	8
36+75E	-------	6"M.H.Stub	"	"
37+60E	-------	27"x6" Wye	"	"
38+30E	-------	"	"	"
39+50E	-------	"	"	"
40+75E	-------	6"M.H.Stub	"	"
41+60E	-------	27"x6" Wye	"	"
42+25E	-------	"	"	"
42+80E	-------	"	"	"
44+10E	-------	"	"	"
45+00E	-------	6" M.H.Stub	"	"
45+85E	-------	27"x6" Wye	"	"
47+10E	-------	"	"	"
48+45E	-------	"	"	9
50+30E	-------	27"x6" Wye	"	"
55+40E	-------	27"x6" Tee W/S.S.	Erie Avenue	"
58+50E	-------	"	"	"
62+20E	-------	27"x6" Wye	"	10
70+75E	-------	"	"	"
71+30E	-------	"	"	"
73+15E	-------	"	"	"
73+70E	-------	"	"	11
74+20E	-------	"	"	"
76+00E	-------	"	"	"
	-------	----------	----------	--
	-------	----------	----------	--
	-------	----------	----------	--

① Station refers to baseline station of sanitary sewer main. Direction refers to orientation from sanitary sewer main.

S.S. - Service Stack

UTILITIES

The following utilities and owners are located within the work limits of this project:

Stark County Sanitary Engineer
Stark County Office Building
209 West Tuscarawas Street
Canton, Ohio 44702
Notify: Michael S. Armogida, P.E.
Director, Sanitary Engineering
(216) 454-5651 Ext. 177

Stark County Engineer
209 West Tuscarawas Street
Canton, Ohio 44702
Notify: Joseph Sturrett
County Engineer
(216) 454-5651 Ext. 248

Ohio Water Service Co.
123 Third Street, S.E.
P.O. Box 584
Massillon, Ohio 44648
Notify: Don Snyder
Supervisor
(216) 833-4156

(M) Ohio Bell Telephone Co.
832 McKiney Avenue, N.W.
Canton, Ohio 44703
Notify: Phil Byhom
District Manager - Distribution Services
(216) 489-2632

Massillon Cable T.V.
814 Cable Court, N.W.
Massillon, Ohio 44646
Notify: _____
(216) 833-4134

Ohio Edison Company
663 South Erie Street
Massillon, Ohio 44646
Notify: George Steffen
Division Engineer
(216) 833-3141 Ext. 261

Ohio Department of Transportation
District No. 4
105 Oakwood Street
Ravenna, Ohio 44266
Notify: Ernie Moravec
Permit Supervisor
(216) 297-0801

(M) East Ohio Gas Company
Gas Supply Operations Division
7015 Freedom Street, N.W.
North Canton, Ohio 44720
Notify: Thomas J. Wiese
Supervisor
(216) 499-2501

(M) East Ohio Gas Company
Distribution Division
332 Second Street, N.W.
Canton, Ohio 44702
Notify: _____
Engineering Dept.
(216) 438-6131

City of Massillon
Massillon Municipal Govt. Center
100 City Hall Street
Massillon, Ohio 44646
Notify: Robert Wagoner
City Engineer
(216) 833-1058

(M) Designates member organizations of Ohio Utility Protection Service. Call 1-800-362-2764.

UTILITIES NOTIFICATION

At least two working days prior to commencing construction operations in an area which may involve underground utility facilities, the Contractor shall notify the Project Engineer, the registered utility protection service and the owners of each underground utility facility shown in the plans.

The owner of the underground utility facility shall, within forty-eight hours, excluding Saturdays, Sundays and Legal Holidays, after notice is received, stake, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they were installed. The marking or locating shall be coordinated to stay approximately two days ahead of the planned construction.

DRAWN BY: _____
CHECKED BY: _____
DATE: JUNE 1983

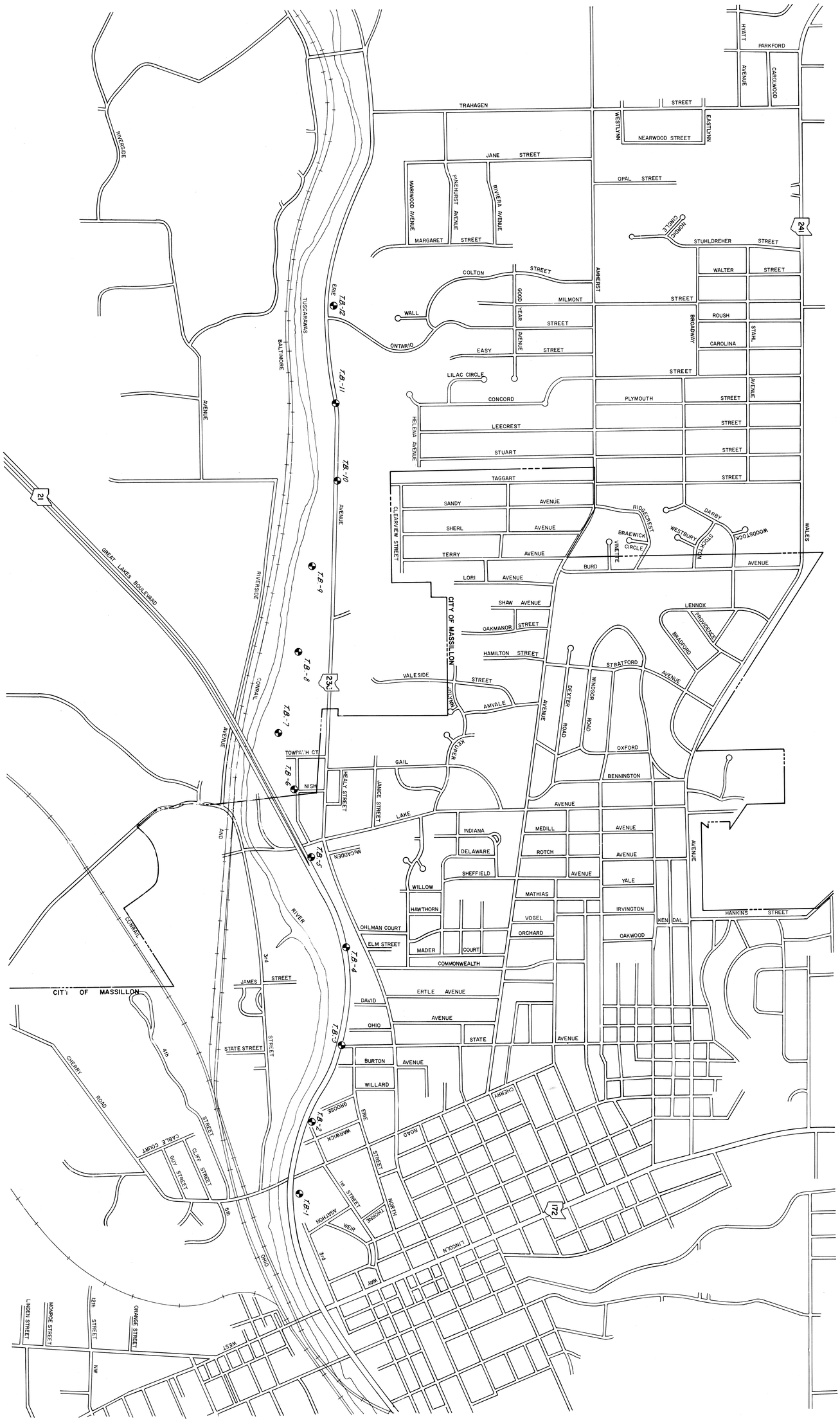
FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
INDEX OF SHEETS

SCALE: 1" = 600'
HOR. _____ VERT. 81131

2 OF 14 SHEETS

CONTRACT



SCALE: 1" = 600'

HOR. _____ VERT. _____

81131

3 OF 14 SHEETS

STARK COUNTY, OHIO

SANITARY SEWER IMPROVEMENTS

PROJECT NO. 429

SOIL BORING LOCATIONS

FRANK A. THOMAS & ASSOCIATES, INC.

CONSULTING ENGINEERS

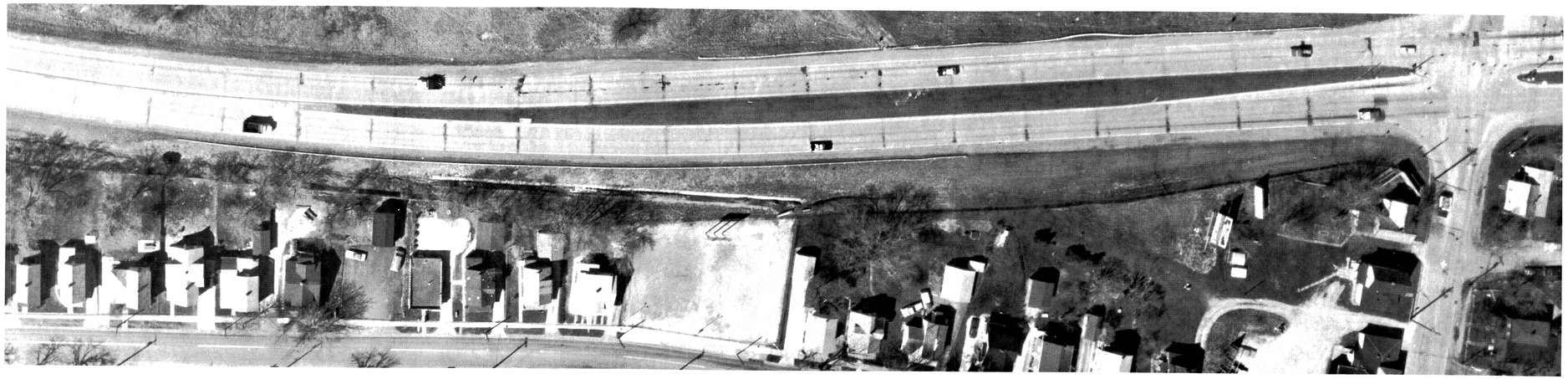
WILLOUGHBY, OHIO

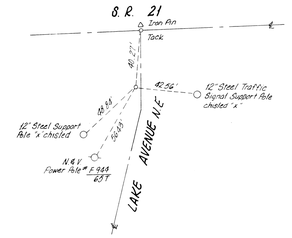
DRAWN BY: _____

CHECKED BY: _____

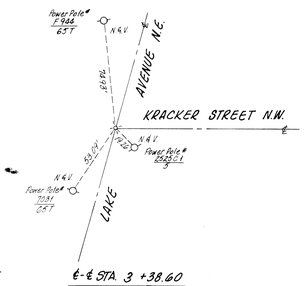
DATE: JUNE, 1983

CONTRACT I





℄-℄ STA 2 + 13.58

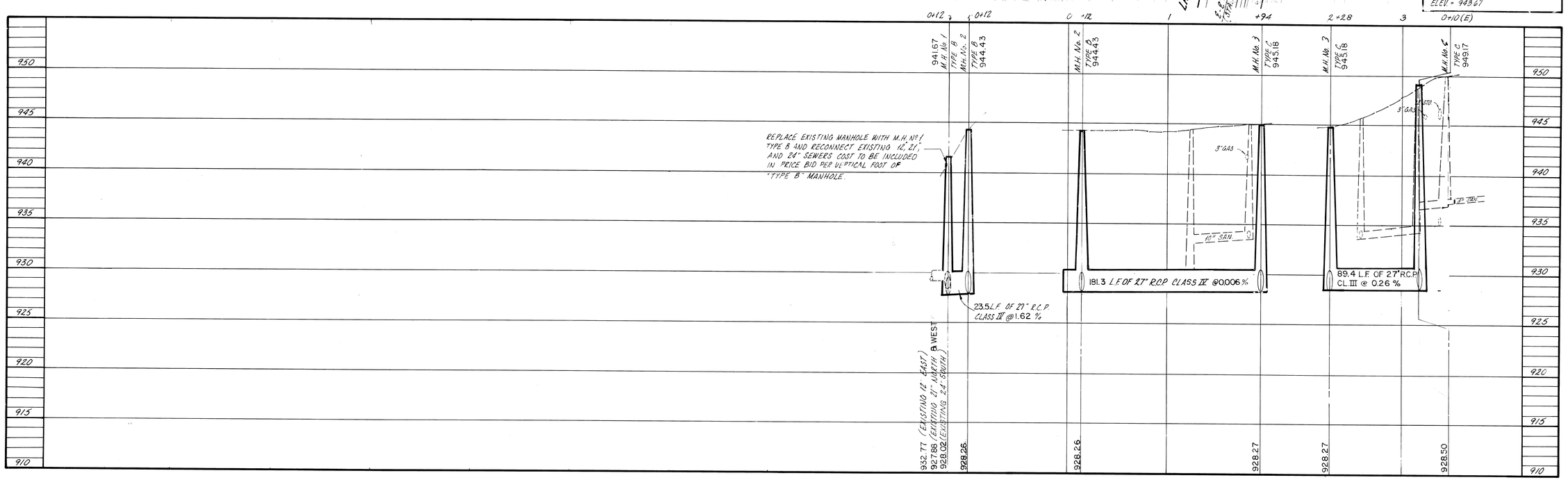


℄-℄ STA. 3 +38.60

NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

LAKE AVENUE
PAVEMENT REPLACEMENT
2½" ASPHALT CONCRETE WITH
9" AGGREGATE BASE.

BENCH MARK:
TOP BOLT - FIRE HYDRANT @ N.W. CORNER OF S.R. 21 AND LAKE STREET INTERSECTION.
ELEV = 943.67



FINAL MEAS. 5/85 R.L.W.JR.

DRAWN BY: J.A.S., F.E.W.
CHECKED BY: R.J.I.
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

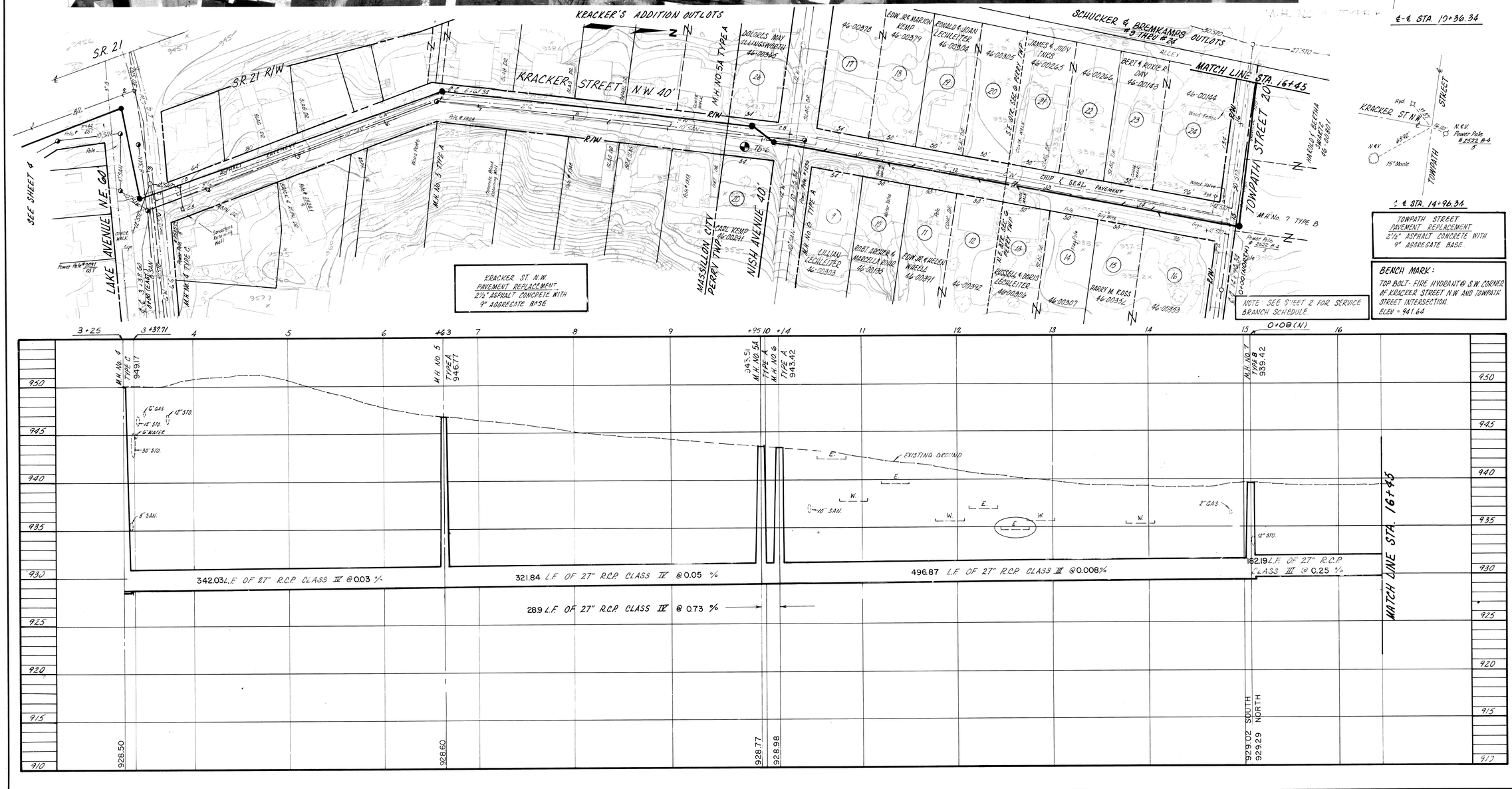
STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

SCALE: HOR. 1" = 50' VERT. 1" = 5'

81131

4 OF 14 SHEETS

P-1



FINAL MEAS. 5/85 RLW JR.

DRAWN BY: JAS, FEW
CHECKED BY: R.J.I.
REVISION DATE: JULY 12, 1984
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

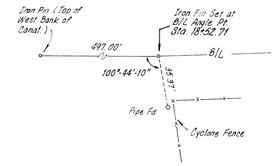
SCALE: HOR. 1" = 50' VERT. 1" = 5'

5 OF 14 SHEETS

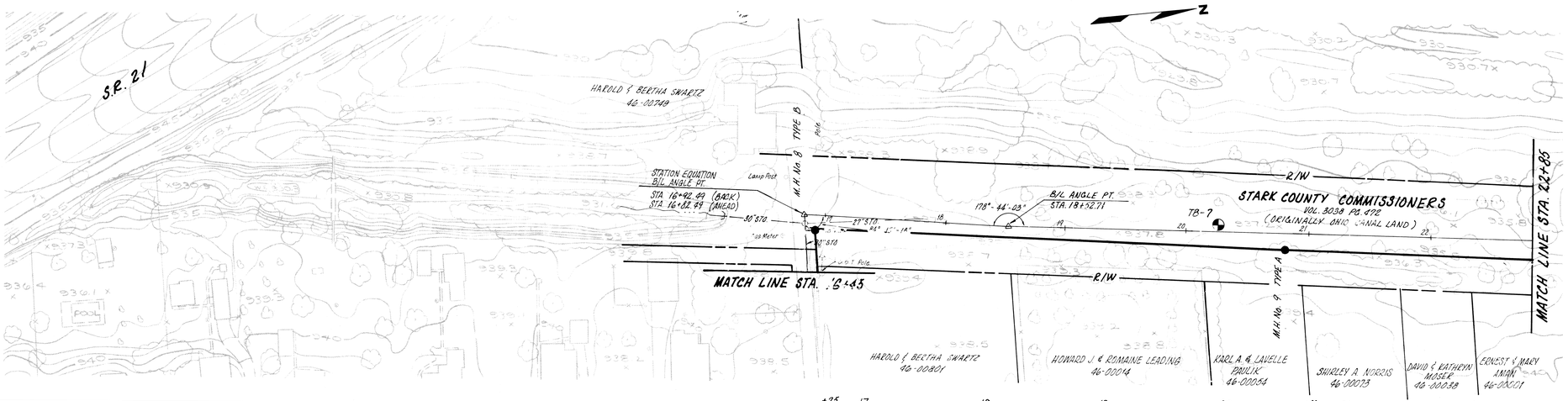
81131

P-1

CONTRACT



B/L ANGLE PT. STA. 18+52.71

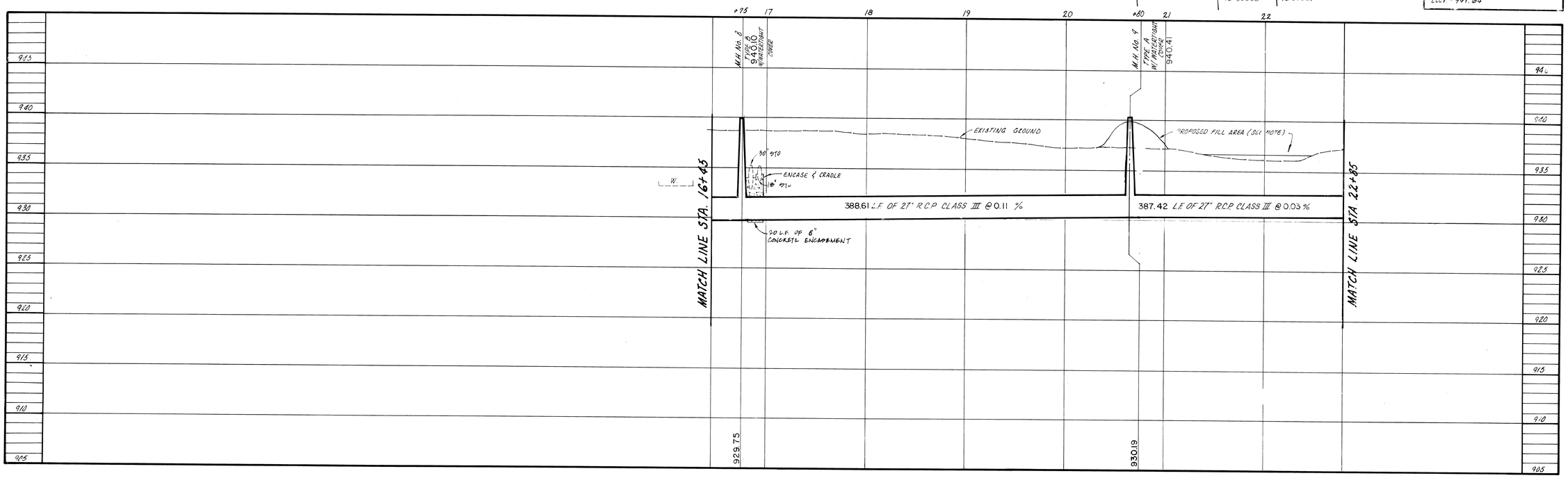


NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

NOTE:
SUITABLE BACKFILL (AS PER ITEM 1 OF THE SPECIFICATIONS) SHALL BE PLACED TO THE PROPOSED GRADE WHERE NOTED WITH SIDE SLOPES AT 2:1. MAINTAIN A 4' MINIMUM COVER OVER SEWER. COST TO BE INCLUDED IN PRICE BID PER LINEAL FOOT OF SEWER WHERE FILL IS DESIGNATED AT MANHOLES. FILL TO WITHIN 1' OF T.C. WITH SIDE SLOPES AT 2:1.

TOWPATH STREET
PAVEMENT REPLACEMENT
2½" ASPHALT CONCRETE WITH 9" AGGREGATE BASE.

BENCH MARK:
TOP BOLT - FIRE HYDRANT @ S.W. CORNER OF KRACKER ST. N.W. AND TOWPATH ST. INTERSECTION.
ELEV. = 941.64



FINAL MEAS. 5/85 RLW JR

DRAWN BY: JAS, FEW
CHECKED BY: RJI
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

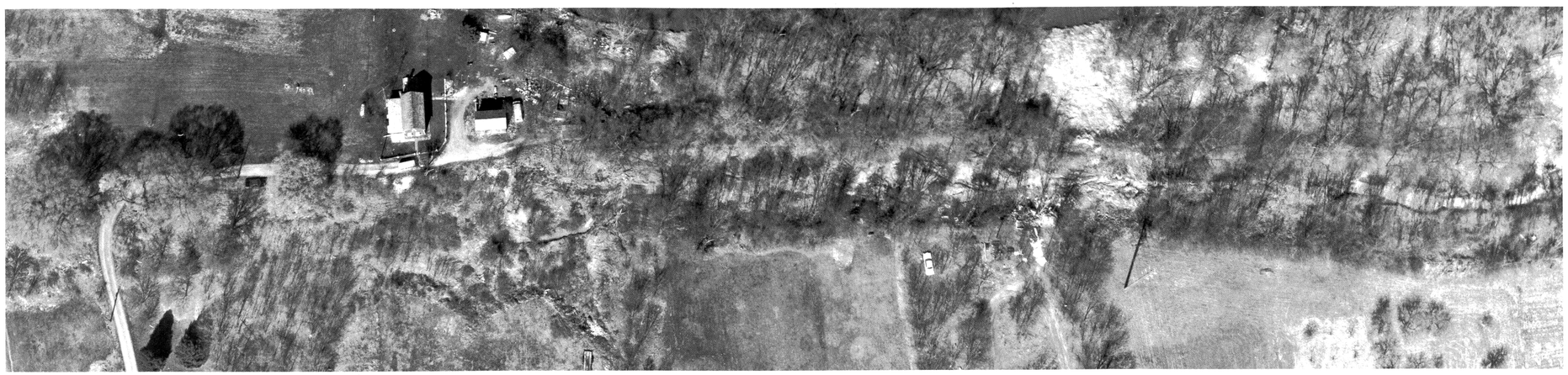
SCALE: HOR. 1" = 50' VERT. 1" = 5'

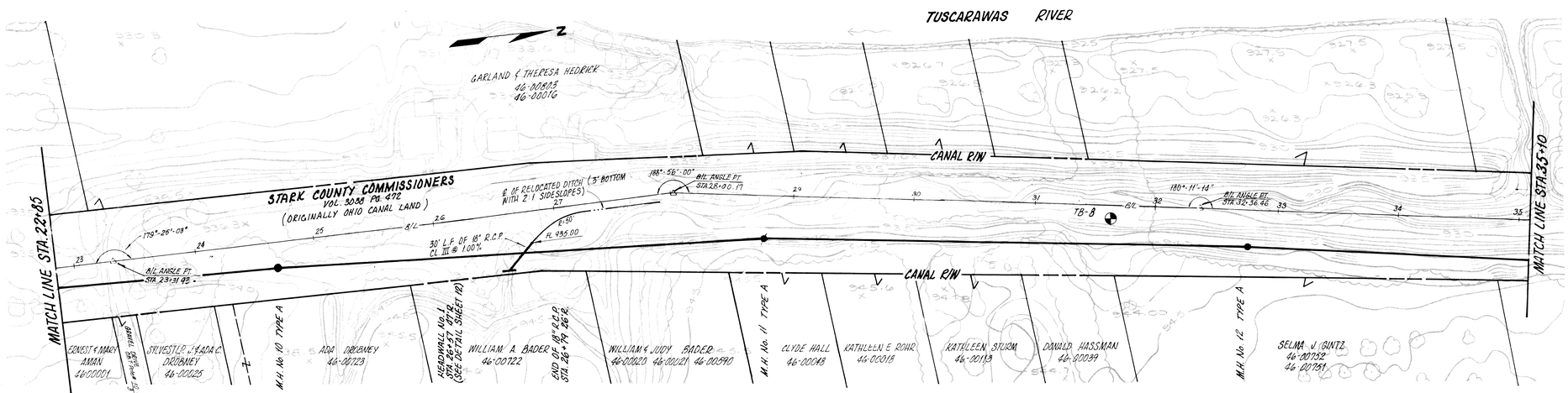
8113'

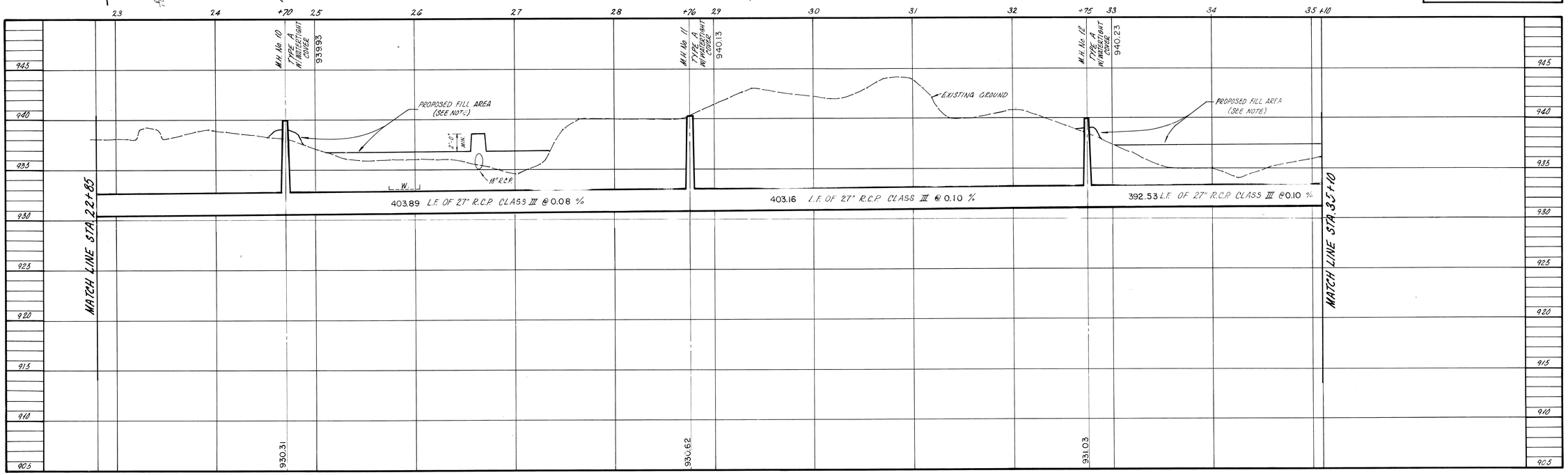
6 OF 14 SHEETS

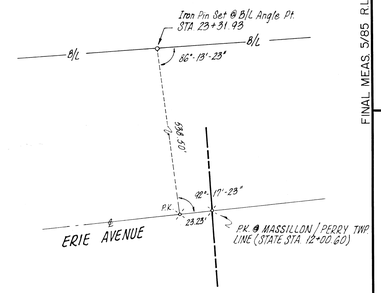
P-1

CONTRACT









B/L ANGLE PT. STA. 23+31.93

NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

NOTE:
SUITABLE BACKFILL (AS PER ITEM 1 OF THE SPECIFICATIONS) SHALL BE PLACED TO THE PROPOSED GRADE WHERE NOTED WITH SIDE SLOPES AT 2:1. MAINTAIN A 4' MINIMUM COVER OVER SEWER. COST TO BE INCLUDED IN PRICE BID PER LINEAL FOOT OF SEWER. WHERE FILL IS DESIGNATED AT MANHOLES: FILL TO WITHIN 1' OF T.C. WITH SIDE SLOPES AT 2:1.

BENCH MARK:
NAIL 1.0' UP WEST SIDE OF POWER POLE No. $\frac{10}{3}\frac{1}{1}$ @ STA. 23+25 - 60' R.
ELV. = 940.89

FINAL MEAS. 5/85 R.L.W. JR.

DRAWN BY: J.A.S., F.E.W.
CHECKED BY: R.J.I.
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

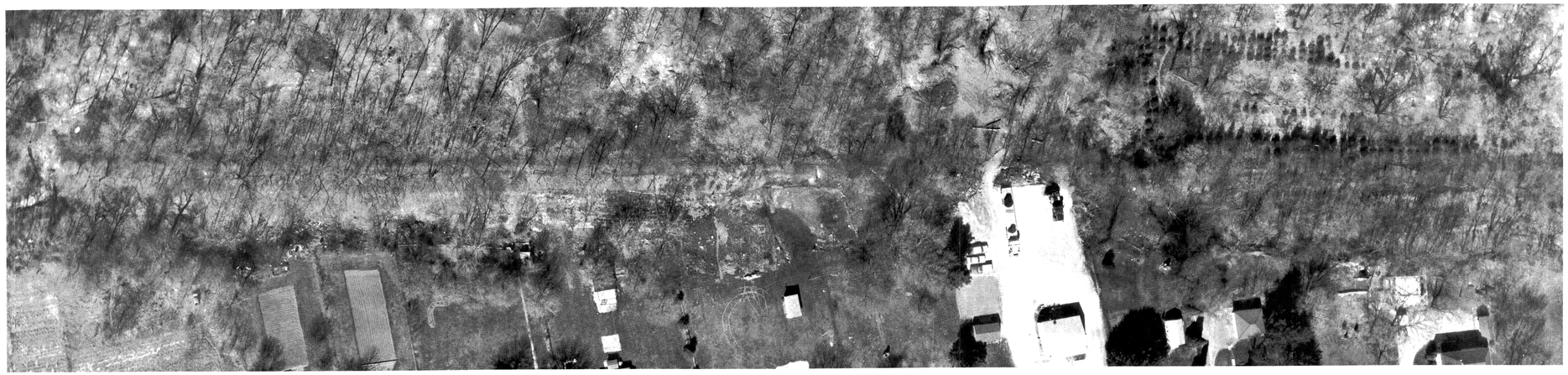
SCALE: HOR. 1" = 50' VERT. 1" = 5'

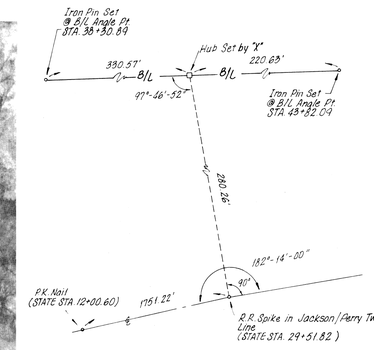
91131

7 OF 14 SHEETS

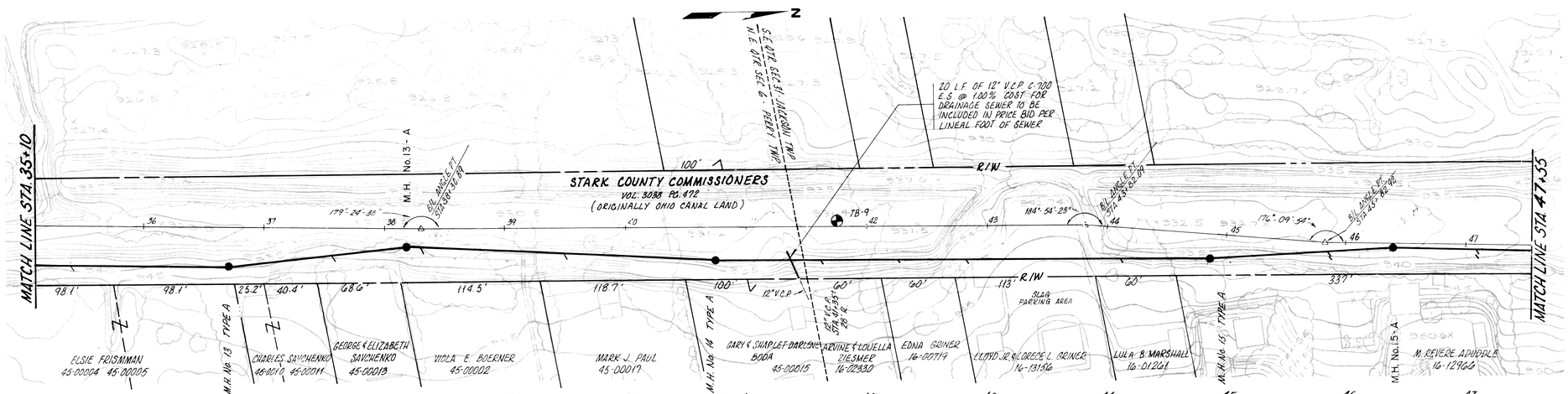
P-1

CONTRACT 1





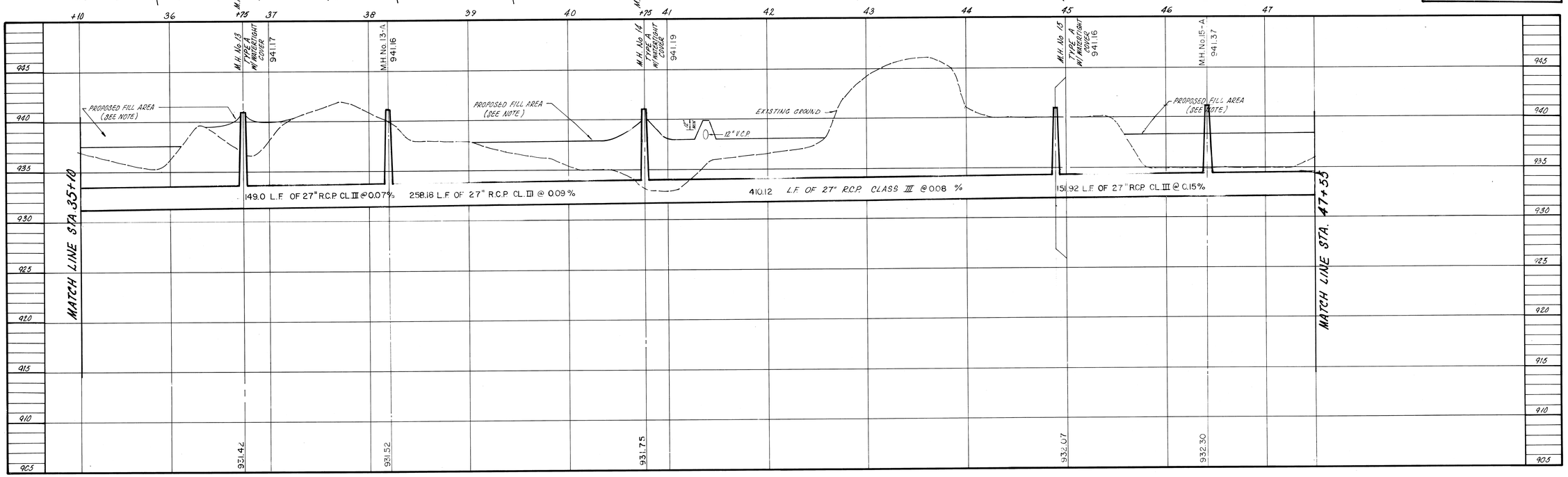
B/L ANGLE PTS.
STA. 38+30.89 & STA. 43+82.09



NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

NOTE:
SUITABLE BACKFILL (AS PER ITEM 1 OF THE SPECIFICATIONS) SHALL BE PLACED TO THE PROPOSED GRADE WHERE NOTED WITH SIDE SLOPES AT 2:1. MAINTAIN A 4' MINIMUM COVER OVER SEWER. COST TO BE INCLUDED IN PRICE BID PER LINEAL FOOT OF SEWER. WHERE FILL IS DESIGNATED AT MANHOLES: FILL TO WITHIN 1' OF T.C. WITH SIDE SLOPES AT 2:1.

BENCH MARK:
NAIL 0.5' UP EAST SIDE OF
10" TREE @ STA 40+02-29' L.
ELEV. = 935.78



FINAL MEAS 5/85 RLW JR.

DRAWN BY: J.A.S., F.E.W.
CHECKED BY: R.J.
DATE: JUNE, 19

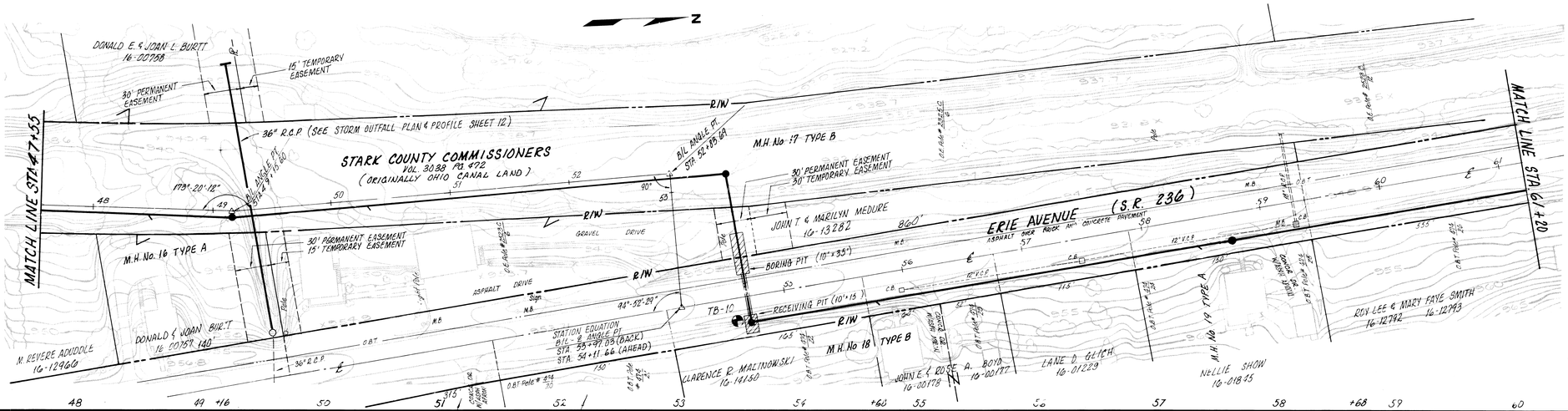
FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

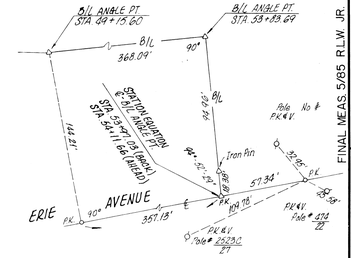
STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

SCALE: HOR. 1" = 50' VERT. 1" = 5'
81131
8 OF 14 SHEETS

P-1

CONTRACT 1





FINAL MEAS. 5/85 R.L.W. JR.

REFERENCES

NOTE:
FOR BORING DETAIL SEE SHEET Nº 12.

NOTE:
SUITABLE BACKFILL (AS PER ITEM 1 OF THE SPECIFICATIONS) SHALL BE PLACED TO THE PROPOSED GRADE WHERE NOTED WITH SIDE SLOPES AT 2:1. MAINTAIN A 4' MINIMUM COVER OVER SEWER. COST TO BE INCLUDED IN PRICE BID PER LINEAL FOOT OF SEWER. WHEN FILL IS DESIGNATED AT MANHOLES: FILL TO WITHIN 1' OF TC WITH SIDE SLOPES AT 2:1.

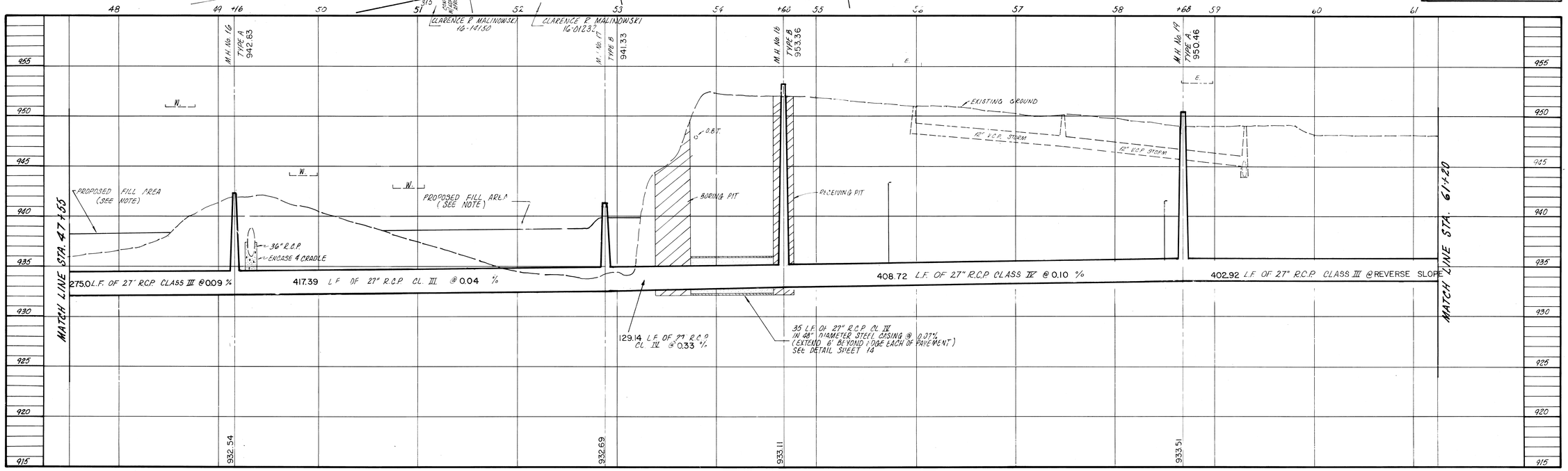
ALL C.B. REPLACEMENTS WITHIN S.R. 236 TO CONFORM WITH O.D.O.T. STD. NO. 2-2-B

NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE

SHEETING SHALL BE LEFT IN PLACE FROM STA. 54+23 TO STA. 61+20 ALONG THE WEST SIDE OF TRENCH.

ERIE AVENUE (S.R. 236)
PAVEMENT REPLACEMENT
2½" ASPHALT CONCRETE WITH
10" PORTLAND CEMENT CONCRETE
BASE

BENCH MARK:
NAIL 1.3' UP EAST SIDE OF
POLE No. 2523 C
8
ELV. = 949.37



DRAWN BY: JAS, FEW
CHECKED BY: R.J.T.
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

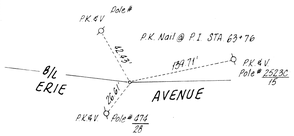
SCALE: HOR. 1" = 50' VERT. 1" = 5'

811.31

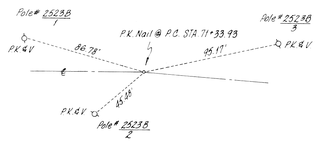
9 OF 14 SHEETS

P-1

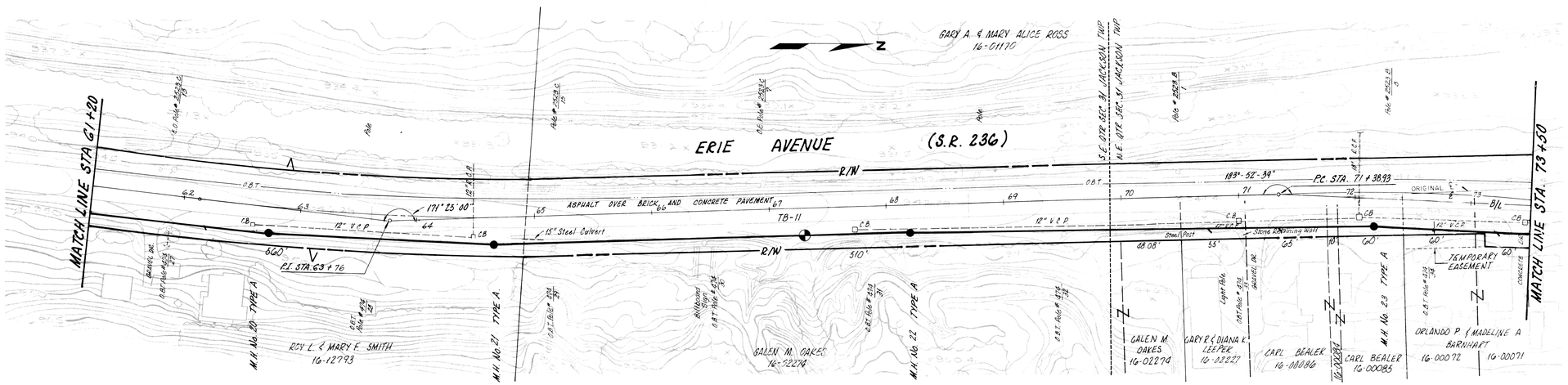
CONTRACT 1



℄-℄ STA. 63+76



℄-℄ STA. 71+33.93



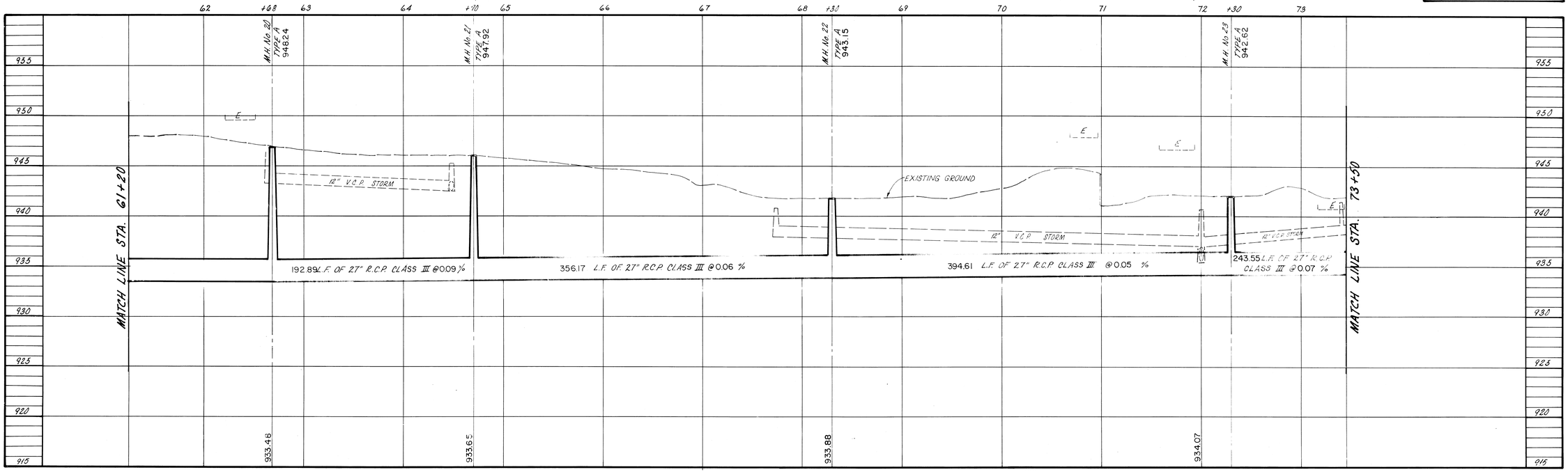
NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

SHEETING SHALL BE LEFT IN PLACE FROM STA. 61+20 TO STA. 64+70 ALONG THE WEST SIDE OF THE TRENCH.

ALL C.B. REPLACEMENTS WITHIN S.R. 236 TO CONFORM WITH O.D.O.T. STD. Nº 2-2-B

ERIE AVENUE (S.R. 236) PAVEMENT REPLACEMENT
2½" ASPHALT CONCRETE WITH 10" PORTLAND CEMENT CONCRETE BASE.

BENCH MARK:
NAIL 1.5' UP EAST SIDE OF POLE No. 252B C / 13.
ELEV. = 944.22



FINAL MEAS 5/85 R.L.W.JR.

DRAWN BY: J.A.S., F.E.W.
CHECKED BY: R.J.I.
DATE: JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

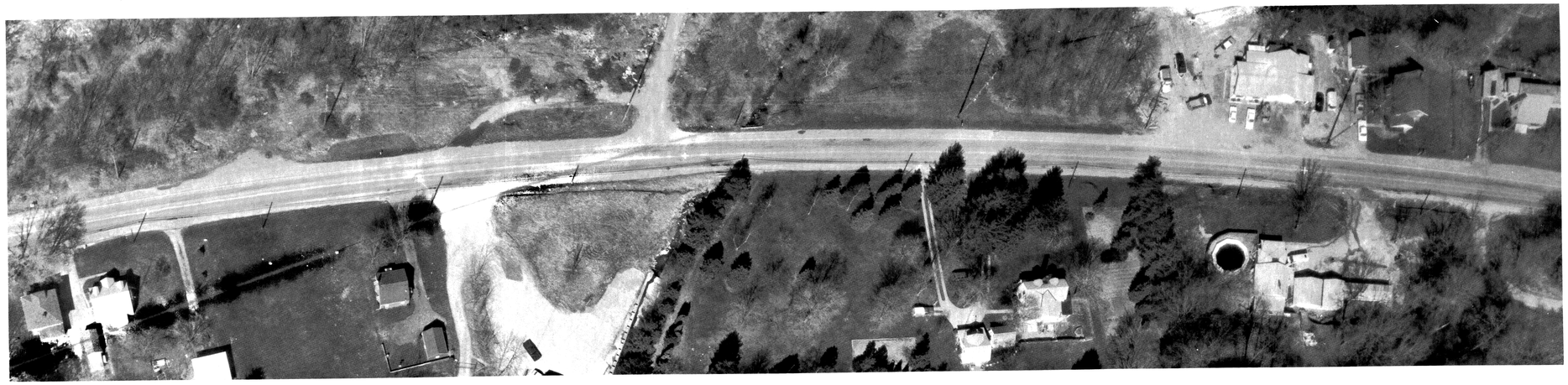
SCALE: HOR. 1" = 50' VERT. 1" = 5'

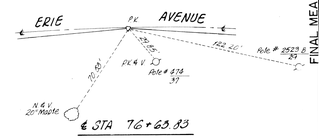
8 | 31

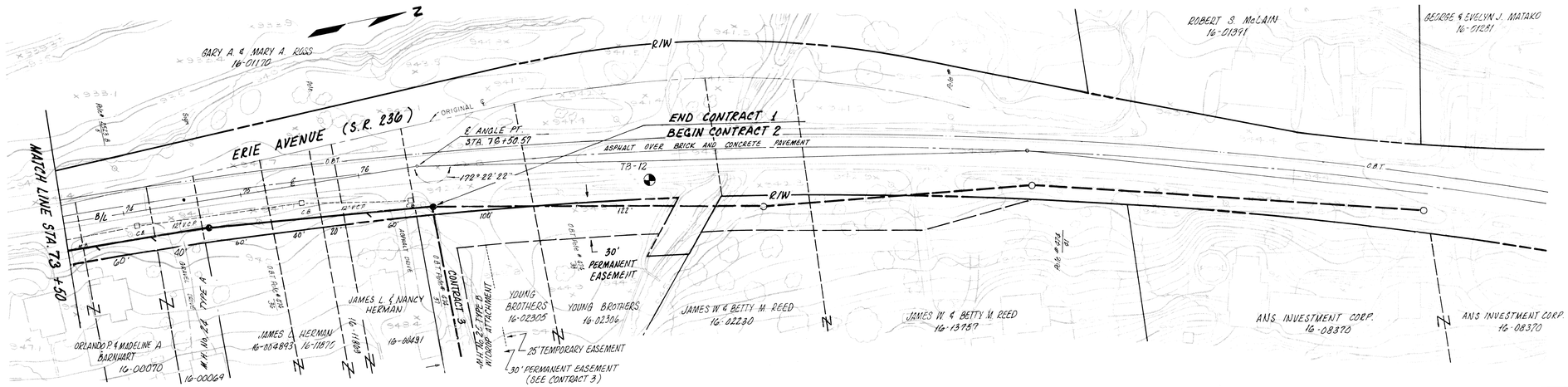
10 OF 14 SHEETS

P-1

CONTRACT I





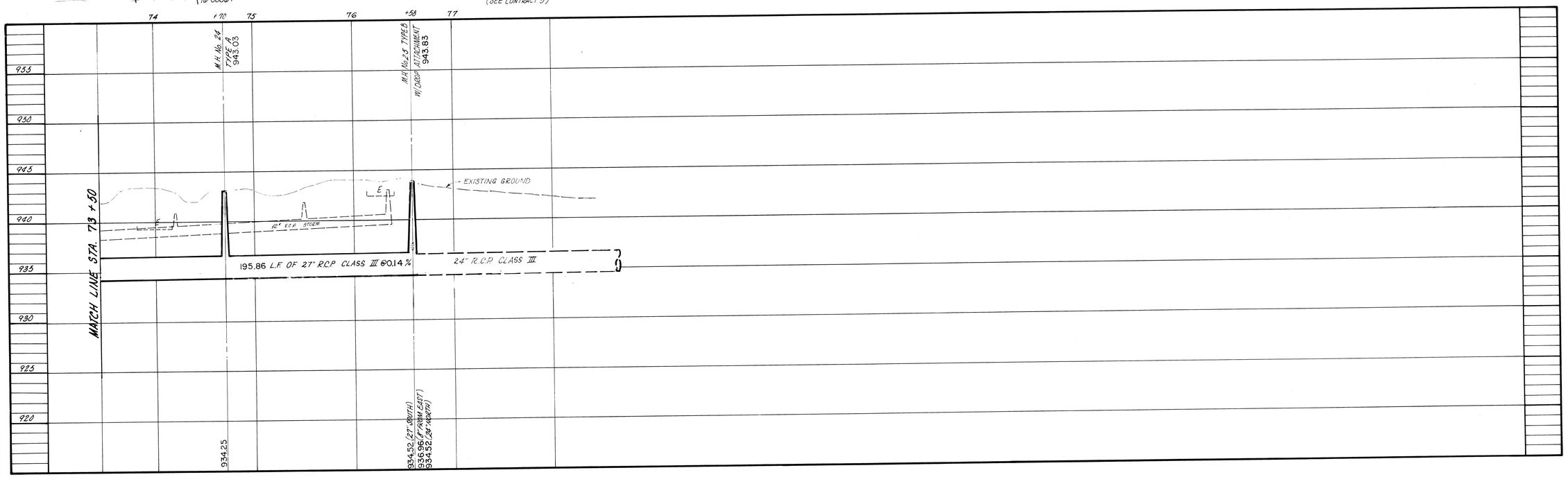


ALL C.B. REPLACEMENTS WITHIN S.R. 236 TO CONFORM WITH O.D.O.T. STD. No. 2-2-B

NOTE: SEE SHEET 2 FOR SERVICE BRANCH SCHEDULE.

ERIE AVENUE (S.R. 236) PAVEMENT REPLACEMENT
2½" ASPHALT CONCRETE WITH 10" PORTLAND CEMENT CONCRETE BASE.

BENCH MARK:
RAILROAD SPIKE 0.5' UP SOUTH SIDE OF POLE No. 474/38.
ELEV. = 943.71

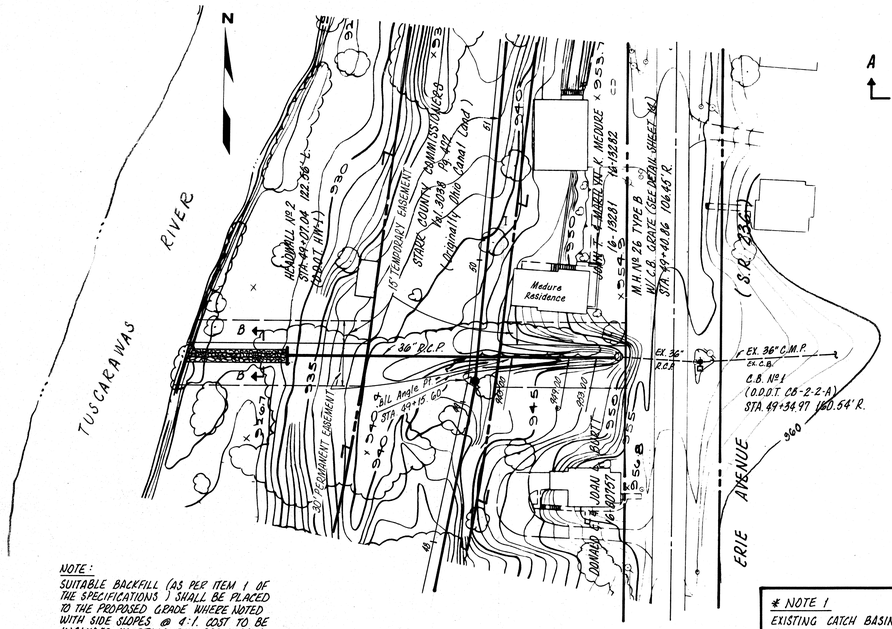


DRAWN BY: JAS, FEW
CHECKED BY: RJJ
DATE: JUNE, 1983
FINAL MEAS. 5/85 R.L.W. JR.

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

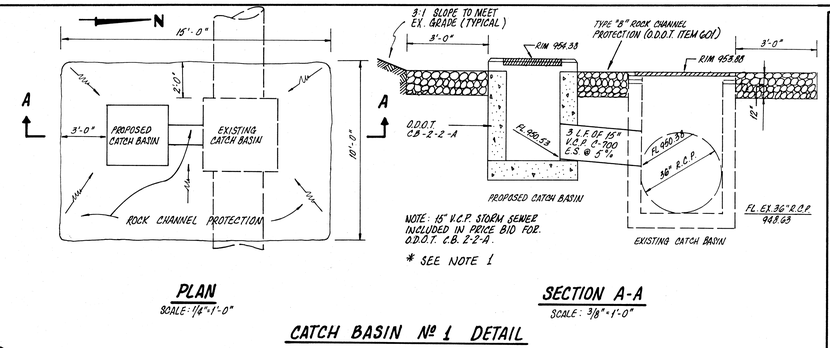
STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE

SCALE: HOR. 1" = 50' VERT. 1" = 5'



NOTE:
SUITABLE BACKFILL (AS PER ITEM 1 OF THE SPECIFICATIONS) SHALL BE PLACED TO THE PROPOSED GRADE WHERE NOTED WITH SIDE SLOPES @ 4:1. COST TO BE INCLUDED IN PRICE BID PER LINEAL FOOT OF SEWER

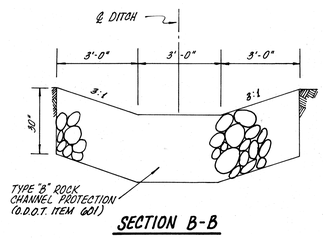
STORM OUTFALL PLAN



PLAN
SCALE: 1/4"=1'-0"

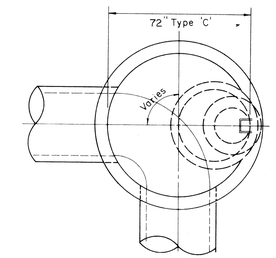
SECTION A-A
SCALE: 3/8"=1'-0"

CATCH BASIN No 1 DETAIL

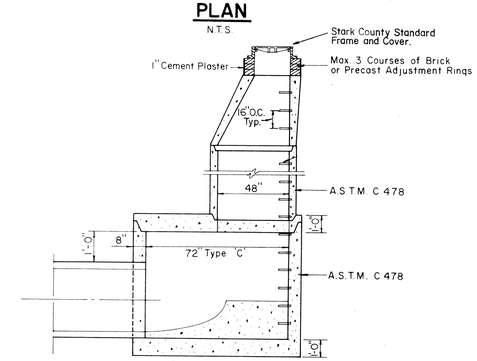


SECTION B-B

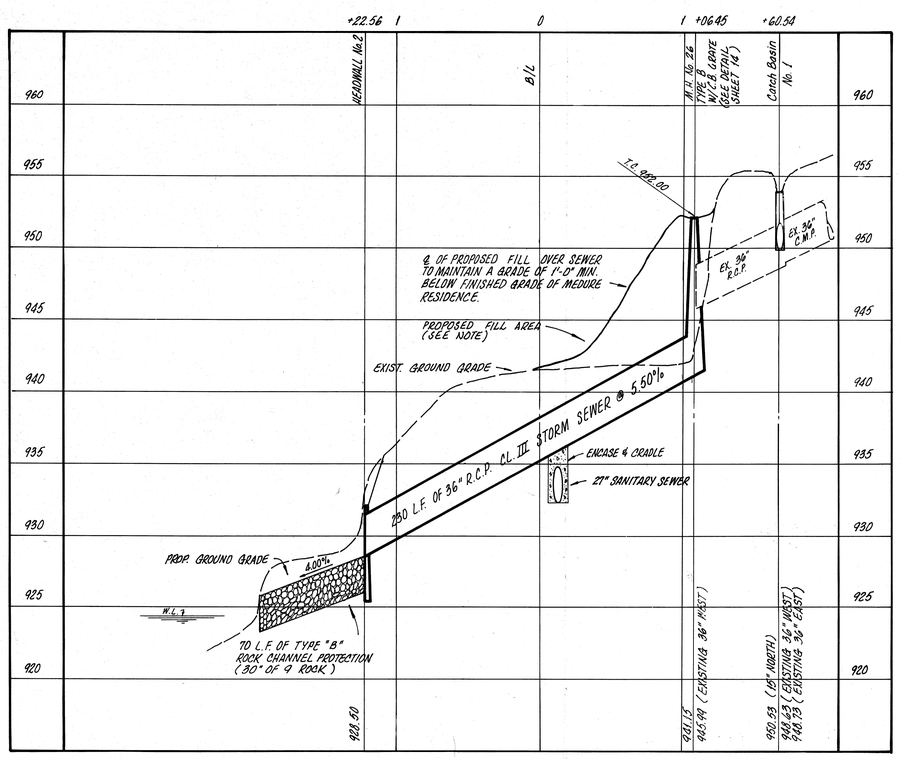
* NOTE 1
EXISTING CATCH BASIN GRATE TO BE REMOVED AND REPLACED WITH ONE (1) NEENAH R-4894 ANGLE FRAME (40" x 33" OVERALL DIMENSION) AND TWO (2) NEENAH R-4783 GRATES (19 1/2" x 32" EACH) OR EQUAL. BOTH CATCH BASINS SHALL BE CLEANED OF ALL LOOSE DEBRIS AT THE COMMENCEMENT OF GRADING AROUND THE STRUCTURES.

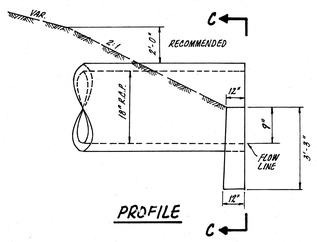


PLAN
N.T.S.



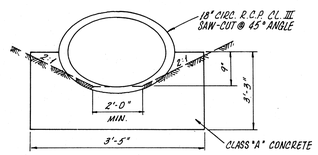
PRECAST MANHOLE TYPE C
N.T.S.





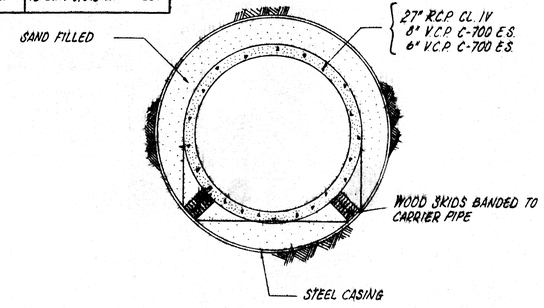
PROFILE

HEADWALL No 1
(SHEET 7 - STA. 26+57)
N.T.S.

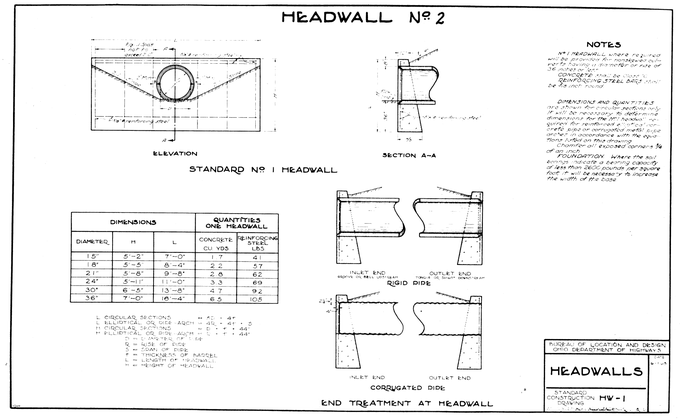


SECTION C-C

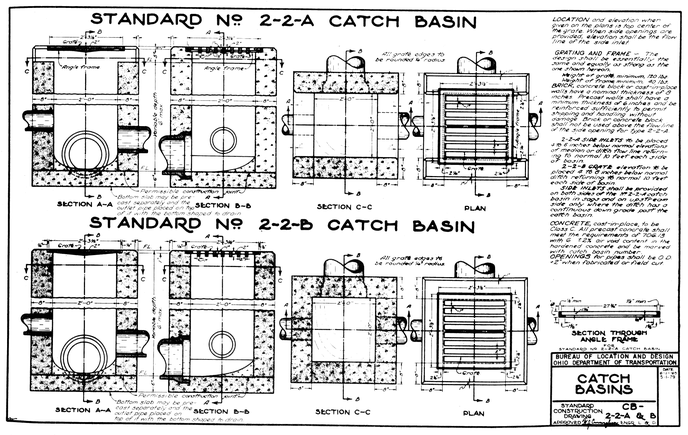
CARRIER PIPE	STEEL CASING PIPE
6" DIA.	14" DIA. - 0.25" THICKNESS
8" DIA.	18" DIA - 0.25" THICKNESS
27" DIA.	48" DIA. - 0.375" THICKNESS



BORING DETAIL
NO SCALE



DIMENSIONS			QUANTITIES ONE HEADWALL	
DIAMETER	H	L	CONCRETE CU. YDS.	REINFORCING STEEL LBS.
15"	5'-2"	7'-0"	1.7	41
18"	5'-5"	8'-4"	2.2	57
21"	5'-8"	9'-8"	2.8	62
24"	5'-11"	11'-0"	3.3	69
30"	6'-5"	13'-8"	4.7	92
36"	7'-0"	16'-4"	6.5	105



FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

DRAWN BY J.A.S., F.E.W.
CHECKED BY R.J.I.
DATE JUNE, 1983

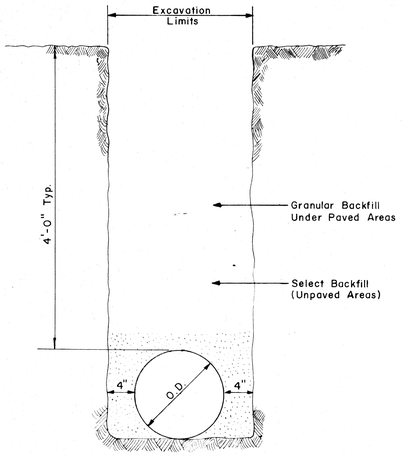
STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
PLAN AND PROFILE & STANDARD DETAILS

SCALE HORZ. 1"=50' VERT. 1"=5'

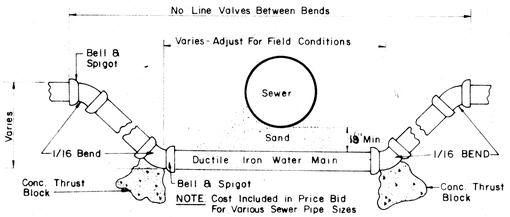
81131

12 OF 14 SHEETS

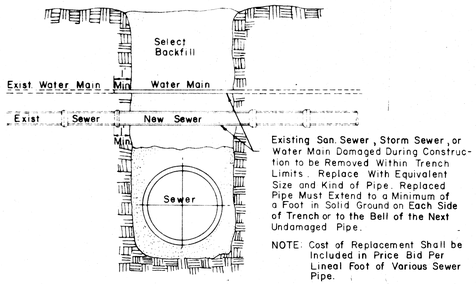
CONTRACT I



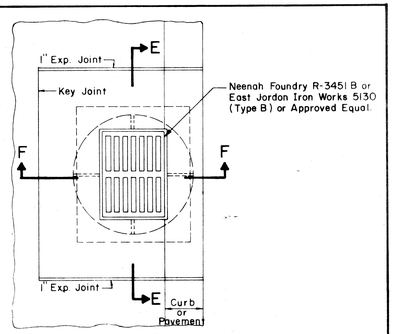
FORCE MAIN TRENCH DETAIL
(LAYING CONDITION 'A')



DETAIL OF WATER MAIN LOWERING
NO SCALE

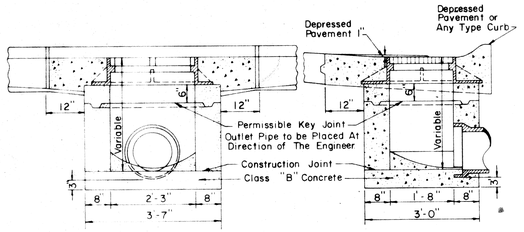


DETAIL OF REPLACEMENT
NO SCALE



Plan

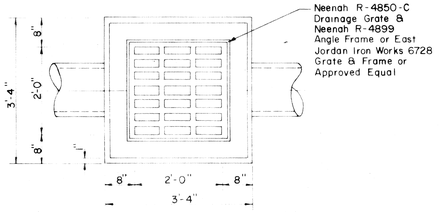
NOTE: Brick Side Walls, When Used in Place of Concrete Shall be 8" Inches in Thickness



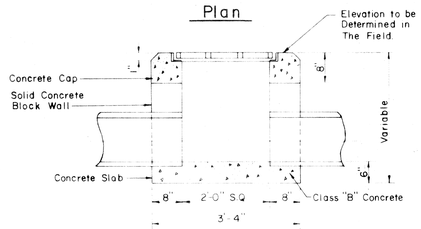
Section E-E Section F-F

STANDARD CATCH BASIN
NO SCALE

NOTE: Cost of Replacement of all Existing Inlets, Catch Basin, Storm and Sanitary Sewers and Manholes to be Included in Bid For Various Pipe Sizes.

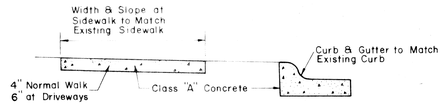


Plan



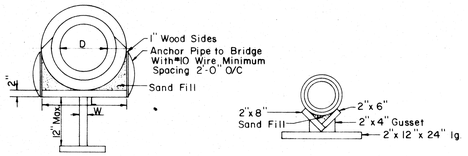
Section

STANDARD INLET DETAIL
NO SCALE

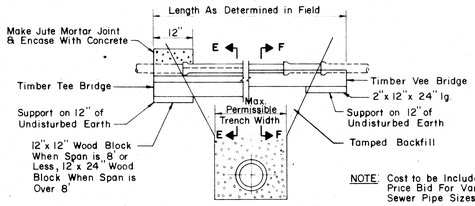


SIDEWALK CURB & GUTTER DETAIL
NO SCALE

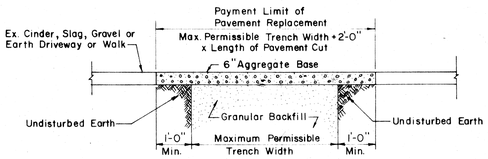
D	4" or 6"	8"	10"	12"	15"	18"
L	8"	12"	16"	*18"	20"	24"
W	2"	2"	3"	3"	3"	3"



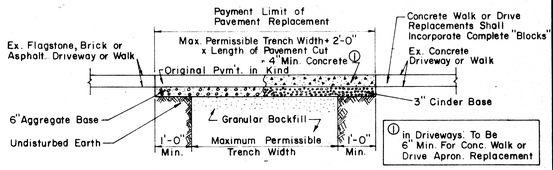
Section E-E Section F-F



RESTORE EXIST. SEWER PIPE LINES
NO SCALE

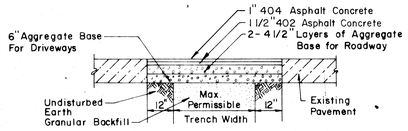


Cinder, Slag, Gravel or Earth Driveway & Walk Replacement

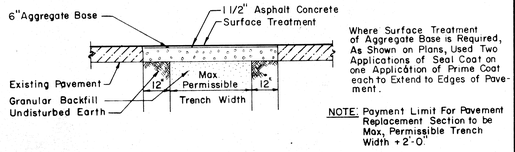


Brick, Flagstone, Asphalt, or Concrete Driveway & Walk Replacement

TYPICAL REPAIR OF PAVEMENT OPENING
NO SCALE



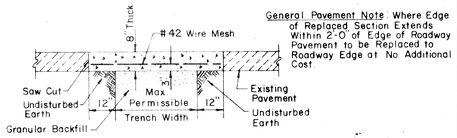
Asphalt Concrete Surface Course
Aggregate Base Course



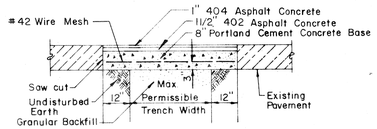
Aggregate Base
With Seal Coat Surface Treatment

TYPICAL PAVEMENT REPLACEMENT SECTIONS
NO SCALE

General Pavement Note: Where Edge of Replaced Section Extends Within 2'-0" of Edge of Roadway Pavement to be Replaced to Roadway Edge at No Additional Cost.



Portland Cement Concrete Base Or Surface



Asphalt Concrete Surface Course
Portland Cement Concrete Base Course

TYPICAL PAVEMENT REPLACEMENT SECTIONS
NO SCALE

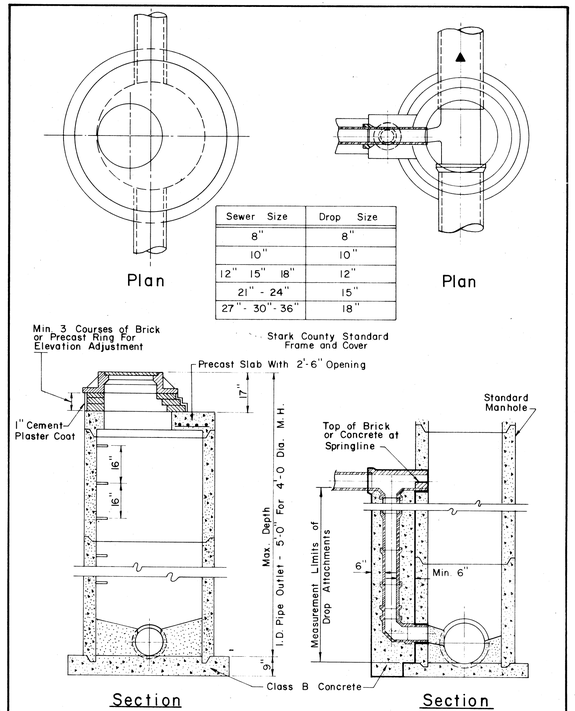
FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

DRAWN BY
CHECKED BY R.J.I.
DATE JUNE, 1983

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
STANDARD DETAIL SHEET

SCALE
SEQ. 8131
NO. 13 OF 14 SHEETS

CONTRACT I

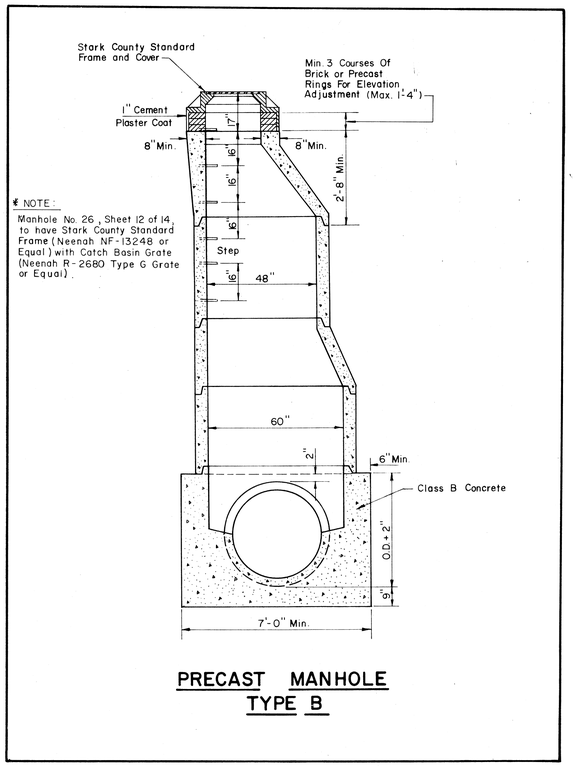


Sewer Size	Drop Size
8"	8"
10"	10"
12" 15" 18"	12"
21" - 24"	15"
27" - 30" - 36"	18"

SHALLOW MANHOLE

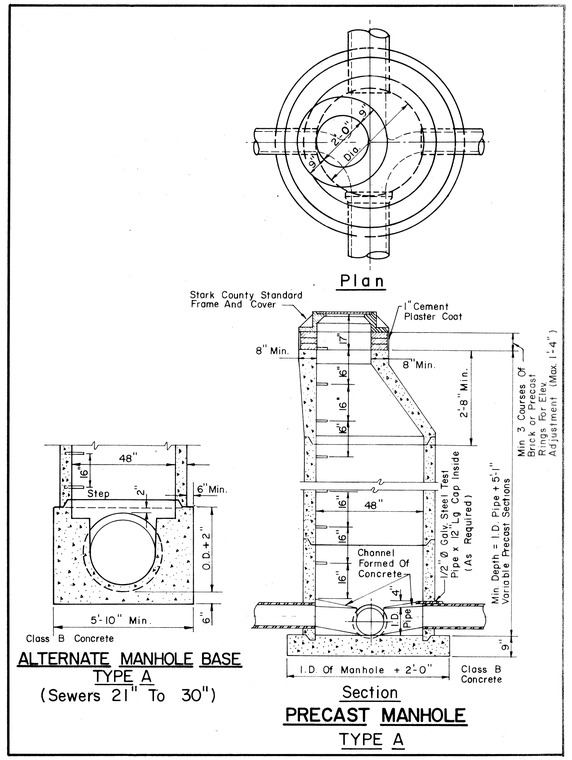
DROP MANHOLE

NO SCALE



NOTE:
Manhole No. 26, Sheet 12 of 14, to have Stark County Standard Frame (Neenah NF-13248 or Equal) with Catch Basin Grate (Neenah R-2680 Type G Grate or Equal).

PRECAST MANHOLE TYPE B

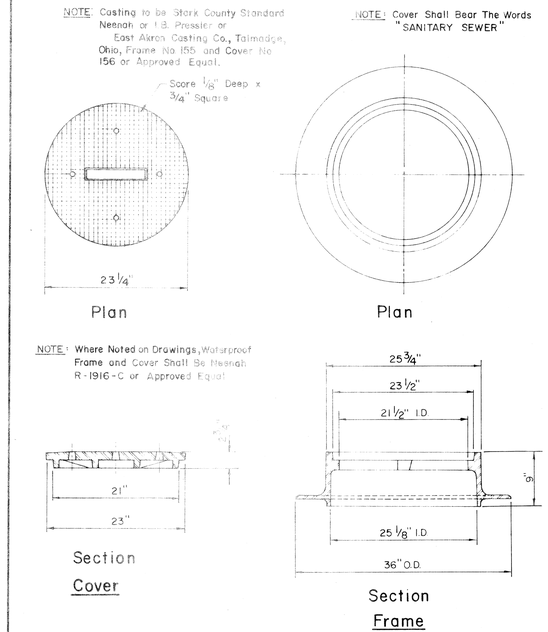


ALTERNATE MANHOLE BASE TYPE A
(Sewers 21" To 30")

PRECAST MANHOLE TYPE A

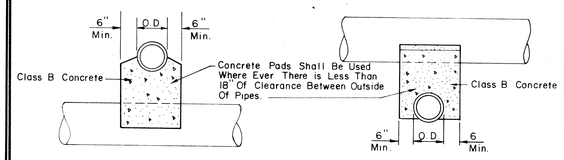
NOTE: Casting to be Stark County Standard Neenah or I.B. Pressler or East Akron Casting Co., Talmadge, Ohio, Frame No. 155 and Cover No. 156 or Approved Equal.

NOTE: Cover Shall Bear The Words "SANITARY SEWER"



MANHOLE CASTING DETAILS

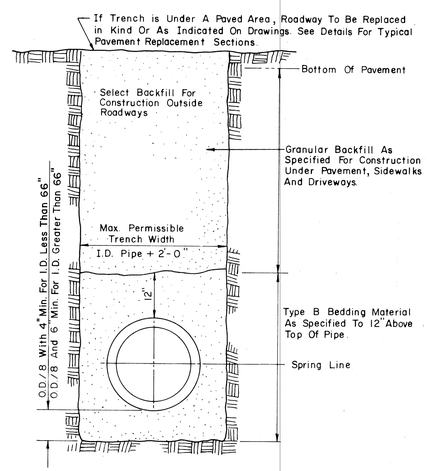
NO SCALE



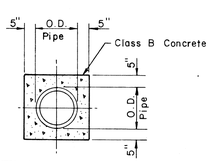
PIPE CROSSING DETAIL

NO SCALE

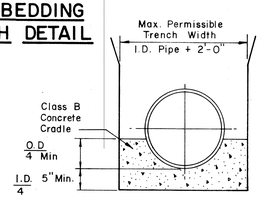
NOTE: Unless Otherwise Directed By The Engineer, Where Two Pipes (Sewer & Water) Cross Each Other, A Concrete Pad And Cradle Seperator Shall Be Placed Between Them As Indicated Above, Where Permission is Granted To Omit The Concrete Pads, Granular Backfill Shall Be Tamped in 6" Layers Around Both Pipes. Such Tamped Backfill Shall Be Continuous From The Cradle Of The Lower Pipe To The Top Of The Upper Pipe And At The Bottom Shall Extend in Both Directions, For The Full Width Of The Trench. (Price Included in Price Bid For Lineal Feet Of Pipe.)



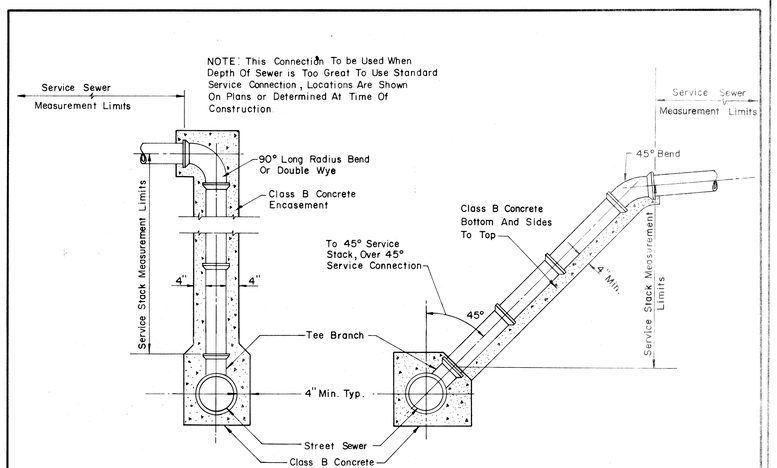
STANDARD BEDDING AND TRENCH DETAIL



TYPICAL PIPE ENCASEMENT

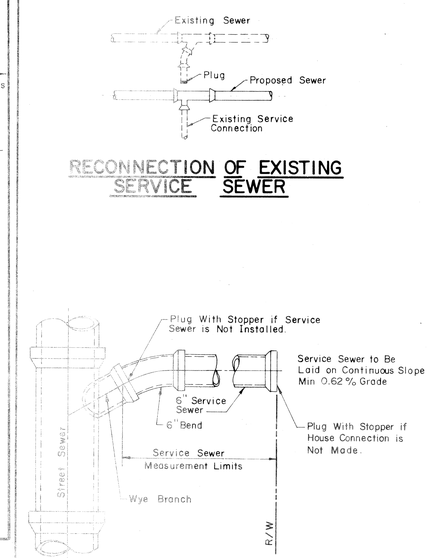


TYPE A BEDDING IN ROCK



TYPICAL SERVICE STACK CONNECTIONS

NO SCALE



RECONNECTION OF EXISTING SERVICE SEWER

STANDARD SERVICE CONNECTION

DRAWN BY
CHECKED BY R.J.I.
DATE JUNE, 1983

FRANK A. THOMAS & ASSOCIATES, INC.
CONSULTING ENGINEERS
WILLOUGHBY, OHIO

STARK COUNTY, OHIO
SANITARY SEWER IMPROVEMENTS
PROJECT NO. 429
STANDARD DETAIL SHEET

SCALE
VERT.
HOR.
81131
14 OF 14 SHEETS

CONTRACT 1