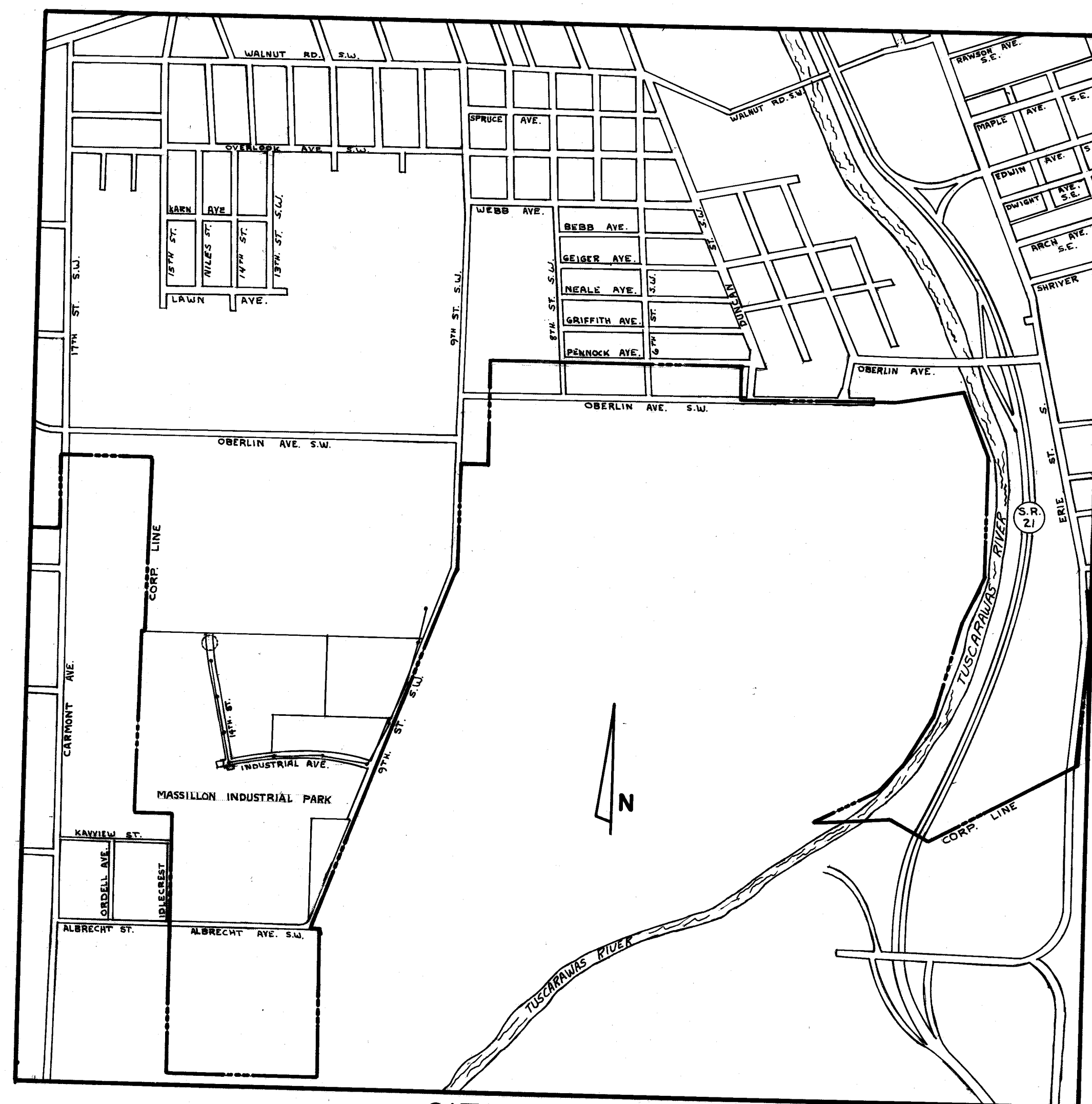


MASSILLON INDUSTRIAL PARK SANITARY SEWER

MARK ROSS.....MAYOR
BLASE SPARMA.....SAFETY SERVICE DIR.
ROBERT WAGONER.....CITY ENGINEER

INDEX

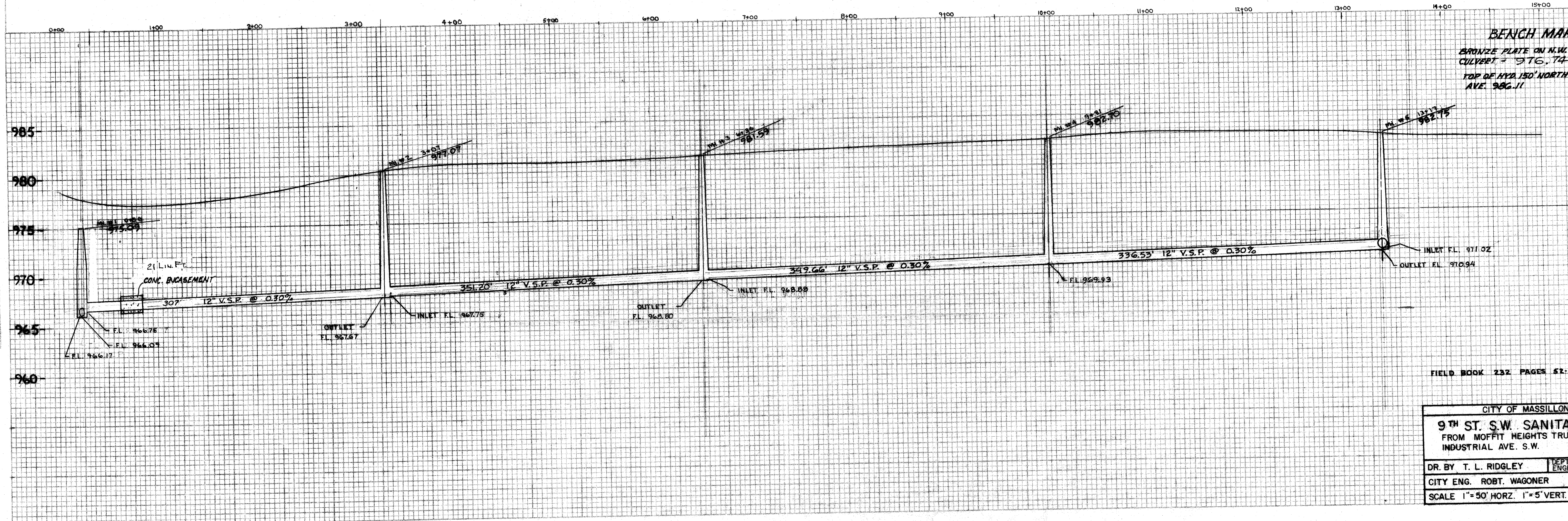
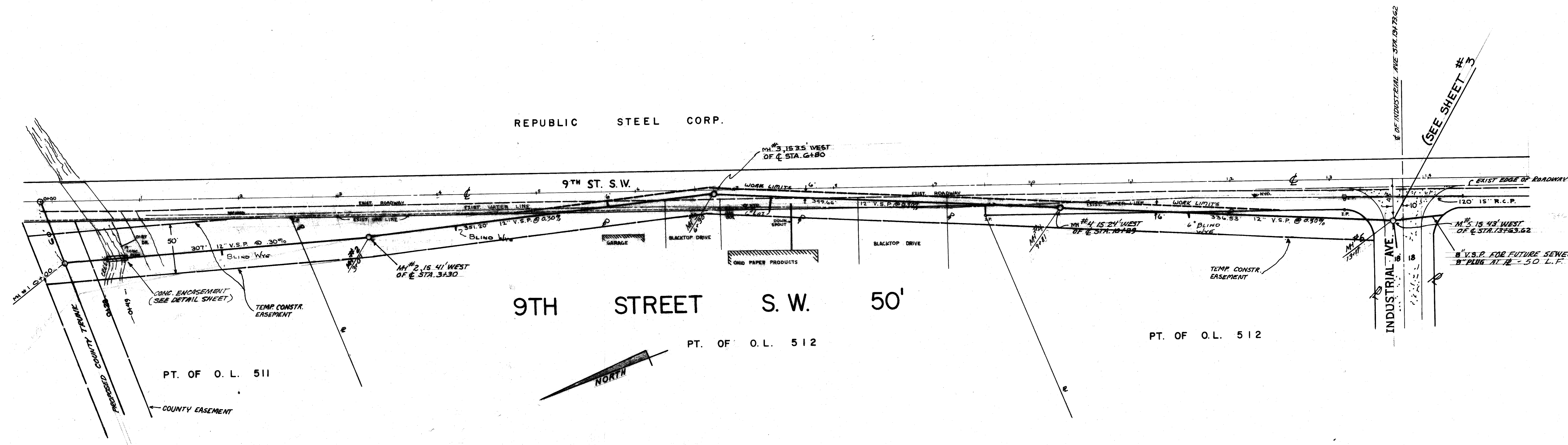
TITLE SHEET.....	1
9TH STREET S.W.	2
INDUSTRIAL AVE S.W.	3
INDUSTRIAL AVE S.W.	4
14TH STREET S.W.	5
GENERAL NOTES & DETAIL SHEET.....	6



SITE MAP
SCALE 1" = 800'

DATE	
BY	
FINAL SURVEY	
TEMP. CONST.	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
TEMP. CONST.	
NOTE BOOK	
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NO.	

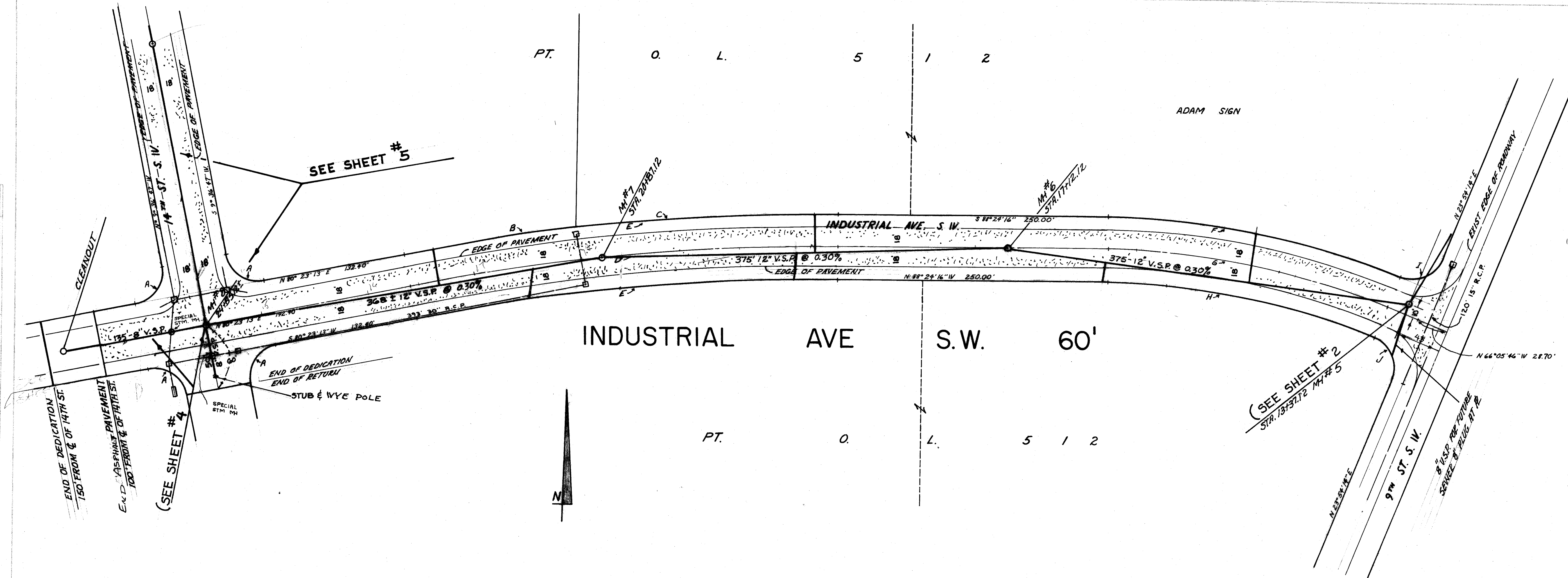


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CITY OF MASSILLON, OHIO	
9TH ST. S.W. SANITARY SEWER	
FROM MOFFIT HEIGHTS TRUNK TO INDUSTRIAL AVE. S.W.	
DR. BY T. L. RIDGLEY	DEPT. OF PUBLIC SERVICE
CITY ENG. ROBT. WAGONER	ENGINEERING DIVISION
SCALE 1"=50' HORZ. 1"=5' VERT.	2/6

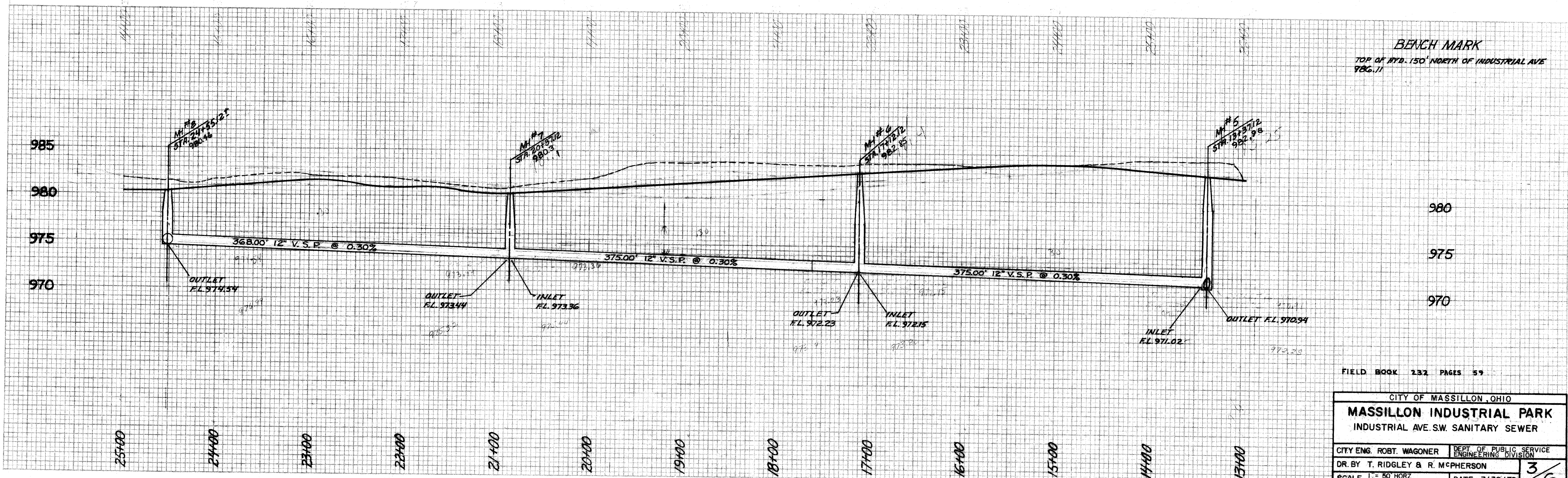
FINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	AREAS	CHECKED
NO.		

ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	AREAS	CHECKED
NO.		



CURVE DATA		
② Δ = 90°00'00"	⑤ Δ = 4°27'33"	⑧ Δ = 6°44'57"
R = 30.00'	R = 2068.21'	R = 2068.21'
L = 47.12'	L = 160.96'	L = 243.63'
CH = 42.13'	CH = 160.92'	CH = 243.49'
T = 30.00'	T = 80.52'	T = 121.96'
③ Δ = 11°12'30"	⑥ Δ = 11°12'30"	⑨ Δ = 20°07'21"
R = 2038.21'	R = 2008.21'	R = 790.74'
L = 398.12'	L = 392.86'	L = 277.71'
CH = 398.09'	CH = 392.23'	CH = 276.29'
T = 200.00'	T = 197.04'	T = 140.30'
④ Δ = 22°18'31"	⑦ Δ = 19°44'53"	⑩ Δ = 17°48'51"
R = 760.74'	R = 730.74'	R = 30.00'
L = 296.20'	L = 251.16'	L = 45.98'
CH = 294.33'	CH = 250.61'	CH = 41.61'
T = 150.00'	T = 127.19'	T = 22.18'
⑪ Δ = 92°33'38"		
R = 30.00'		
L = 44.16'		
CH = 43.36'		
T = 31.37'		

BENCH MARK
TOP OF HYD. 150' NORTH OF INDUSTRIAL AVE
986.11

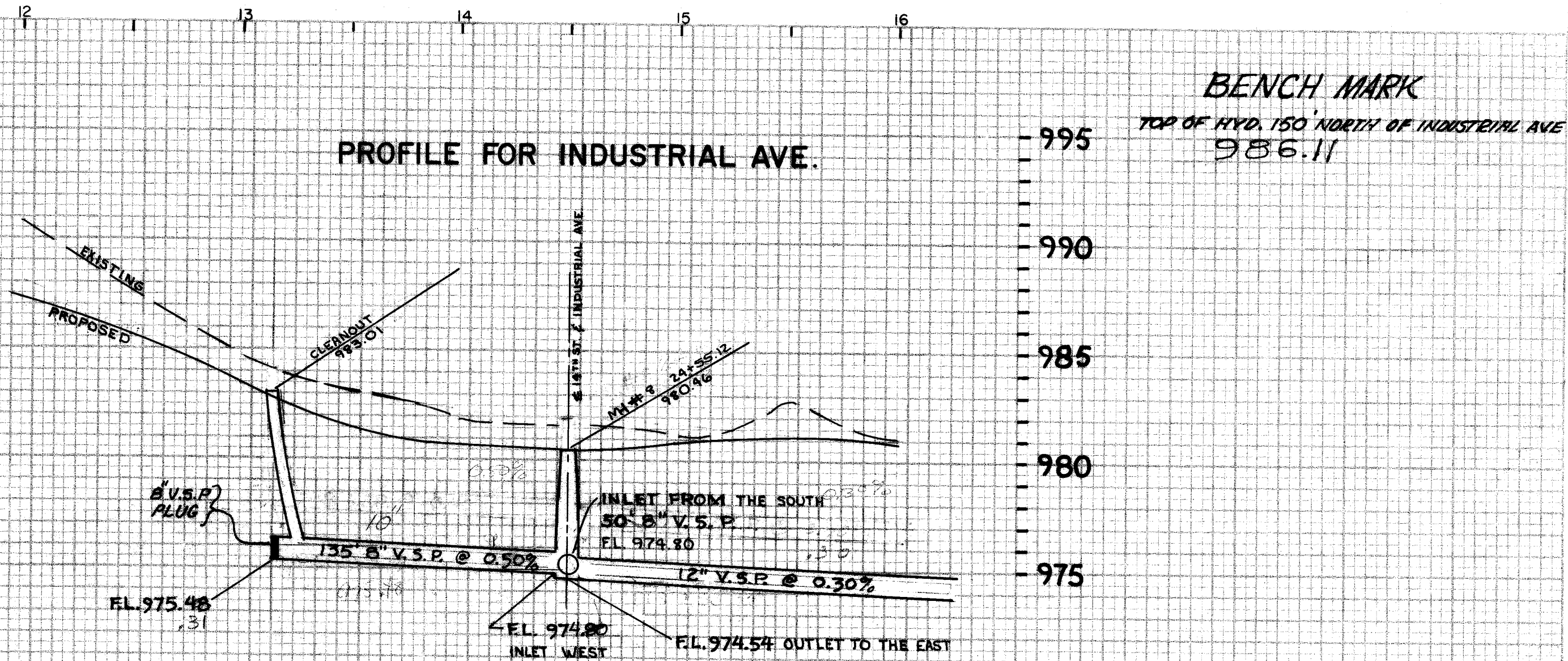
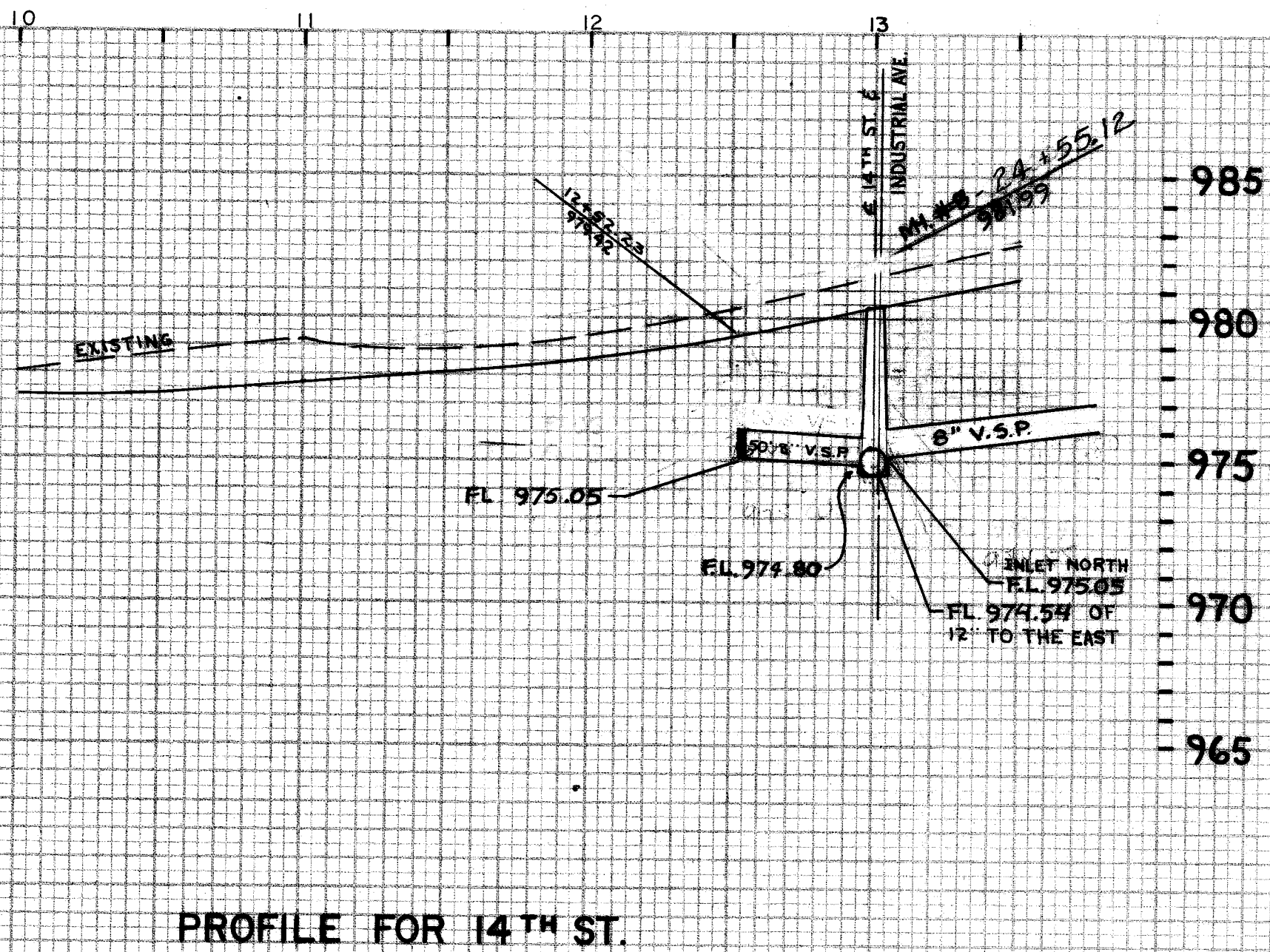
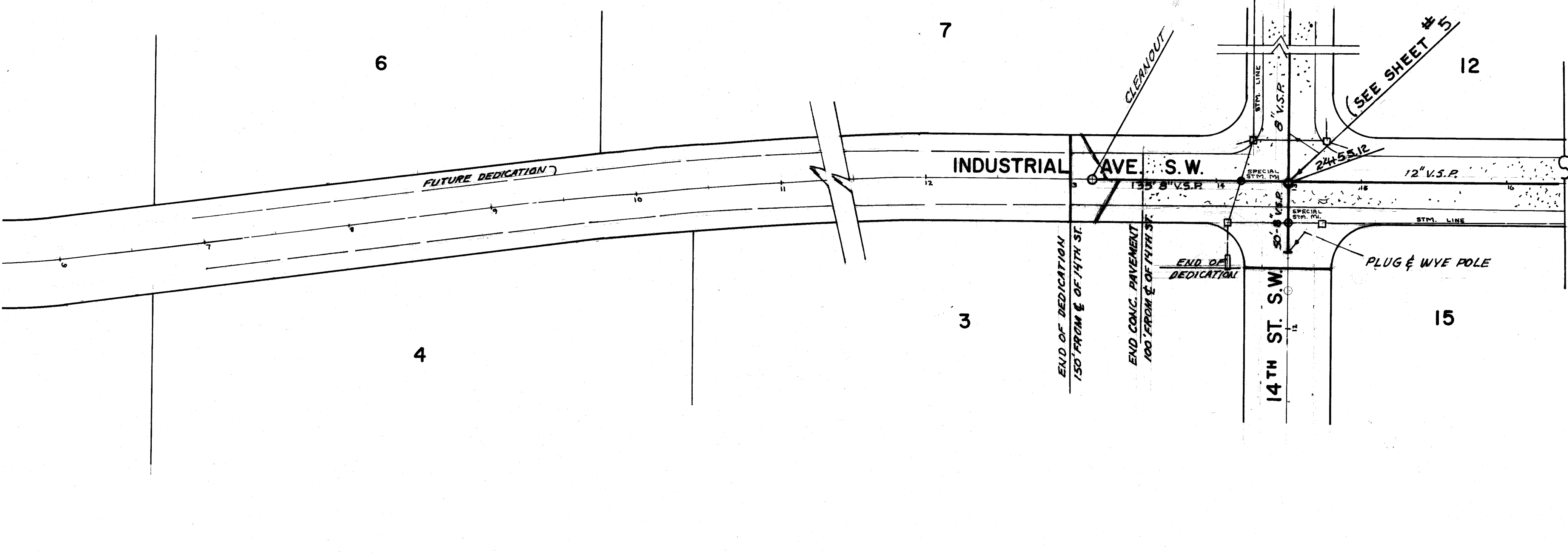


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CITY OF MASSILLON, OHIO	
MASSILLON INDUSTRIAL PARK	
INDUSTRIAL AVE. S.W. SANITARY SEWER	
CITY ENG. ROBT. WAGONER	DEPT. OF PUBLIC SERVICE
DR. BY T. RIDGLEY & R. McPHERSON	ENGINEERING DIVISION
SCALE 1" = 5' HORIZ.	DATE 7/30/75
	3/6

"MASSILLON INDUSTRIAL PARK"
ESTIMATED QUANTITIES

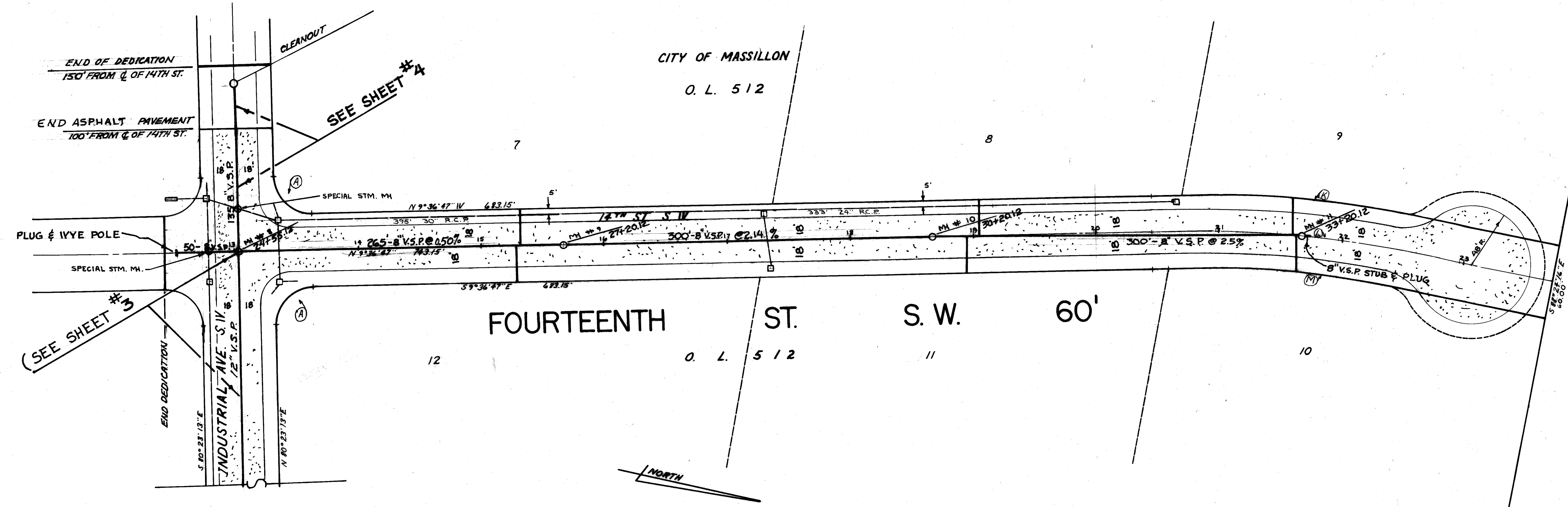
SANITARY SEWER			
ITEM	UNIT	QUANTITY	DESCRIPTION
S-1.13	L.F.	441'	6" LATERAL
S-1.06	L.F.	1086'	8" V.S.P.
S-1.06	L.F.	16'	8" CAST IRON PIPE
S-1.06	L.F.	2449'	12" V.S.P.
S-1.06	EACH	1	8" STUB & PLUG
S-1.12	EACH	18	6" PLUG & WYE POLE
S-2.08	EACH	1	CLEANOUT
S-2.08	V.F.	112.1'	SANITARY MANHOLES
S-2.08	C.Y.	3	CONCRETE ENCASEMENT
S-1.12	EACH	18	WYES
S-1.06	EACH	3	8" PLUGS
603	C.Y.	150	ADD. BEDDING (AT ENG. DIR.)
603	C.Y.	850	GRAVEL BACKFILL (1'-0" IN ROW'Y. AT ENG. DIR.)
603	C.Y.	122	GRANULAR BASE (ROW'Y REPAIR)
301	C.Y.	456	301 ASPHALT (ROW'Y REPAIR)
404	C.Y.	152	404 ASPHALT (ROW'Y REPAIR)
659	SQ. YD.	5845	SEEDING & FERTILIZING



CITY OF MASSILLON, OHIO	
MASSILLON INDUSTRIAL PARK	
INDUSTRIAL AVE. S.W. SANITARY SEWER	
DR. BY TERRY RIDGLEY	DEPT. OF PUBLIC SERVICE
CITY ENG. ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1" = 50' HORIZ 1" = 5' VERT	DATE 8/8/75
4/6	

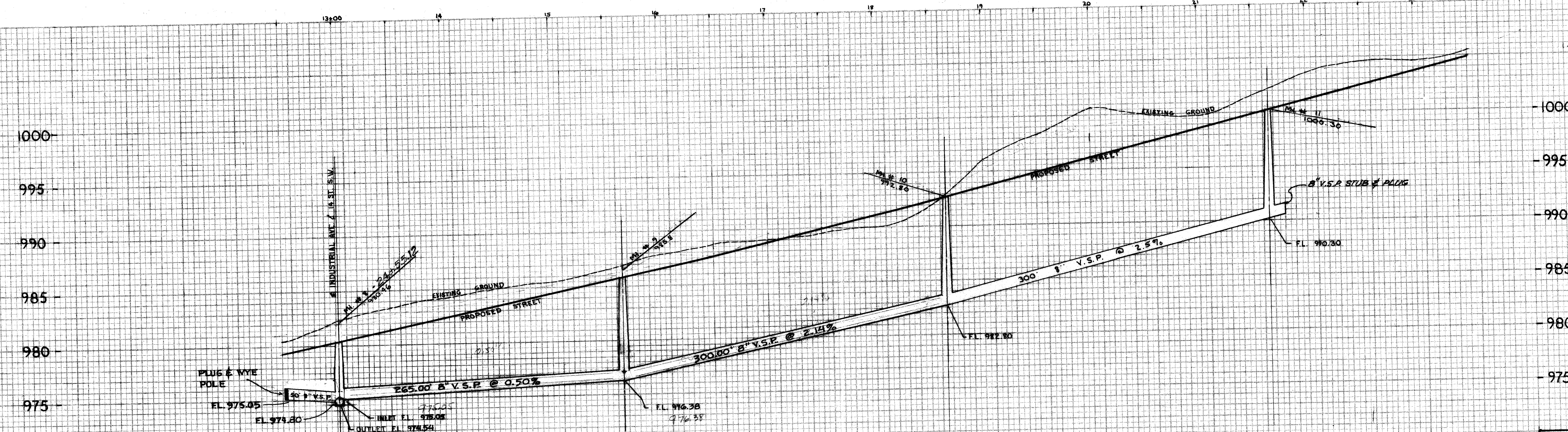
FINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK	AREAS	
CHECKED	NO.	

ORIGINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK	AREAS	
CHECKED	NO.	



CURVE DATA

① Δ = 90°00'00"	② Δ = 11°12'31"	③ Δ = 11°12'31"
R = 30.00'	R = 1701.53'	R = 1671.53'
L = 47.12'	L = 332.86'	L = 326.99'
CH = 42.83'	CH = 332.33'	CH = 326.47'
T = 30.00'	T = 166.96'	T = 164.02'

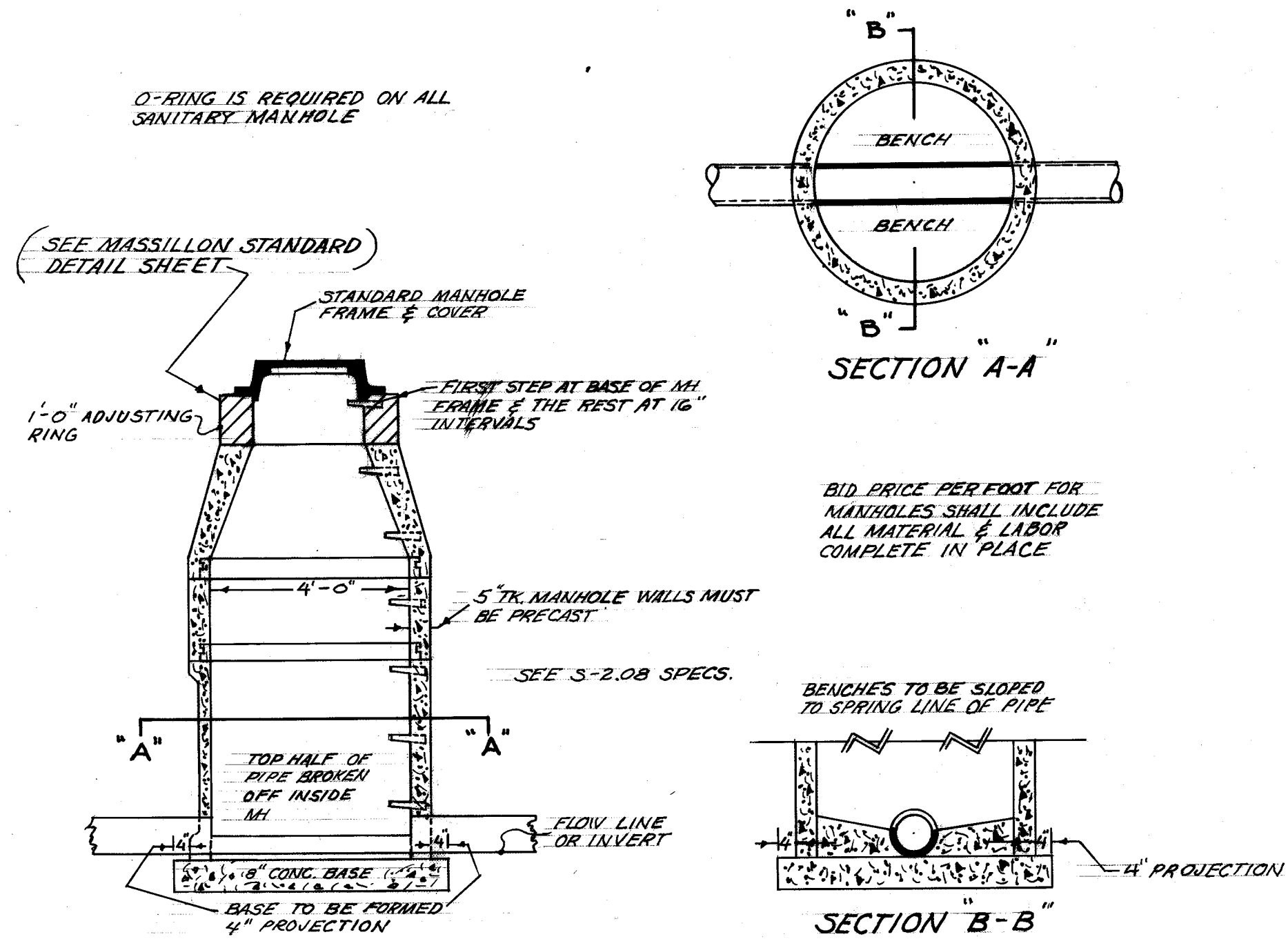


BENCH MARK
TOP OF HYD. 150' NORTH OF INDUSTRIAL AVE
986.11

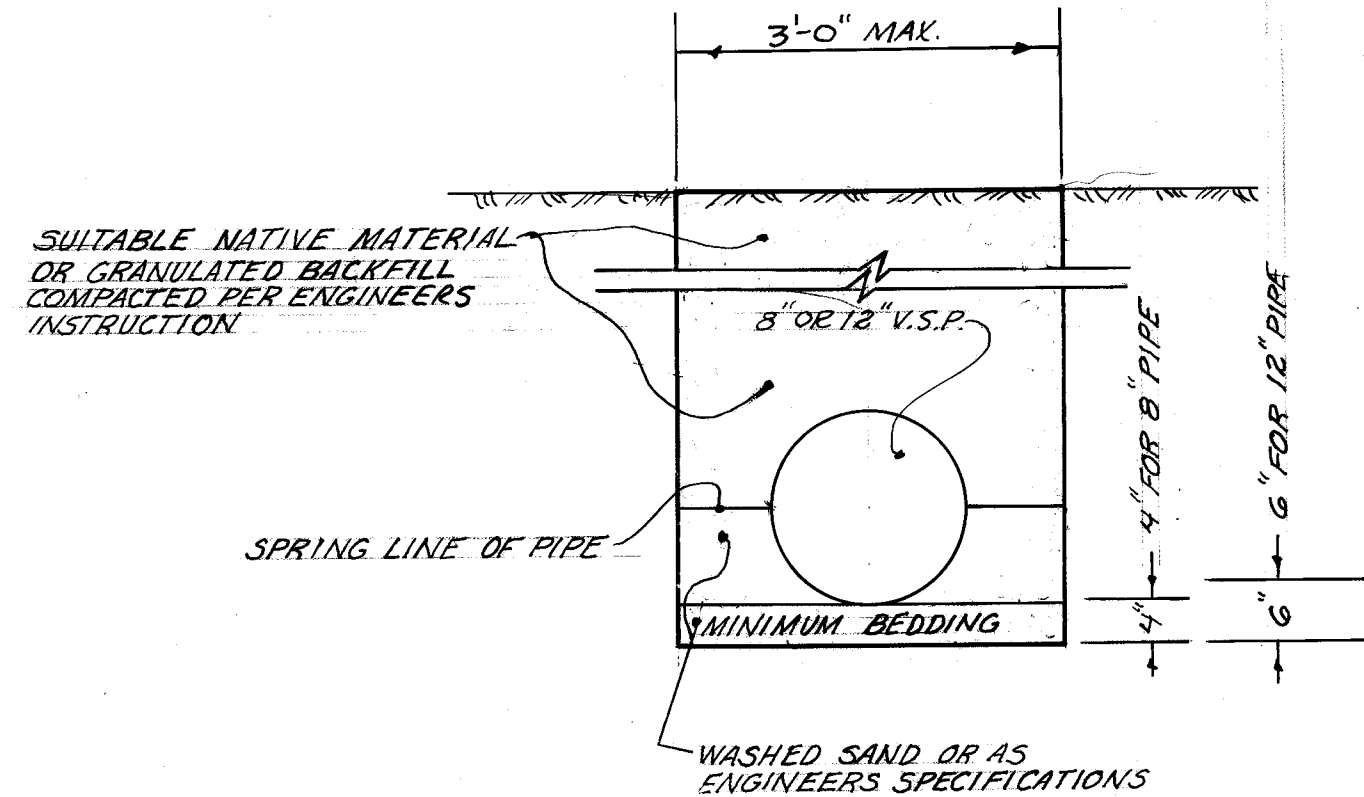
CITY OF MASSILLON, OHIO	
MASSILLON INDUSTRIAL PARK	
14 TH ST. S.W. SANITARY SEWER	
DR. BY TERRY RIDGLEY	DEPT. OF PUBLIC SERVICE
CITY ENG. ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1" = 5' HORIZ. 1" = 5' VERT.	DATE 7/30/75

GENERAL NOTES

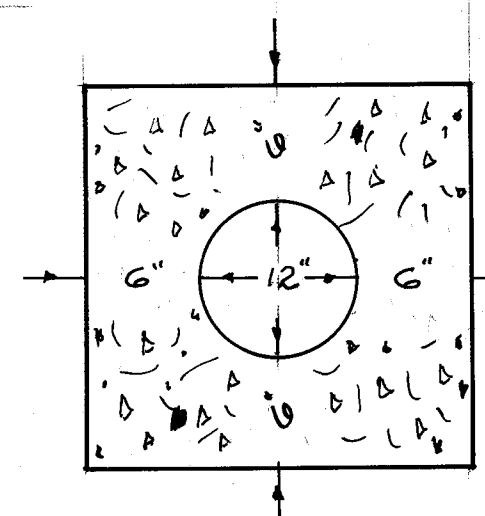
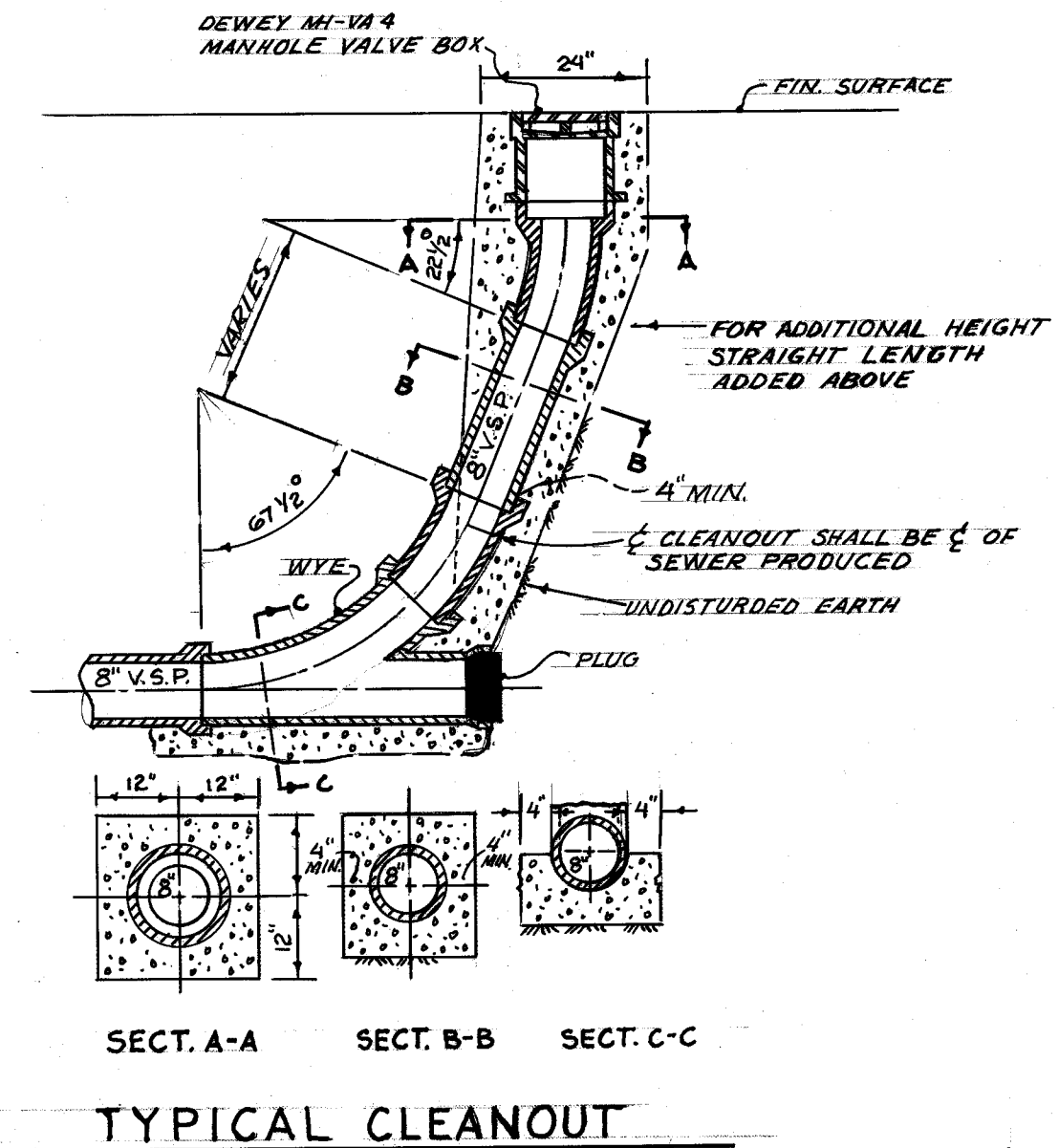
1. ALL CONSTRUCTION TO BE PER CITY OF MASSILLON SPECIFICATIONS AND STANDARDS.
2. CONTRACTOR SHALL PAY THE CITY'S INSPECTORS FOR ALL WORK BEFORE 7:30 A.M. AND AFTER 4:00 P.M. MONDAY THRU FRIDAY AND ALL HOURS ON SATURDAY, SUNDAY OR HOLIDAYS AT TIME AND ONE HALF THE RATE IN THE CITY'S WAGE ORD. THAT IS IN EFFECT.
3. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANY'S BEFORE WORK IS BEGUN.
4. CONSTRUCTION SIGN: CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY CONSTRUCTION SIGNS, BARRICADES, LIGHTS, AND ALL NECESSARY TRAFFIC CONTROL THIS IS TO BE INCLUDED IN THE BASE PRICE OF THE PIPE.
5. A-RINGS TO BE USED IN PRECAST M.H..
6. ALL M.H. TO BE PRECAST CONC. WITH A MINIMUM OF 1'-0" OF ADJUSTING RINGS ON TOP OF CONE.
7. BACKFILL TO BE COMPACTED PER SPECIFICATIONS, IF UNSUITABLE, GRANULAR BACKFILL MAY BE ORDERED BY THE ENGINEER AT THE CITY'S FIXED PRICE IN THE BID SHEETS.
8. COST OF COMPACTION PER LIN. FT. WILL BE INCLUDED IN THE PRICE OF PIPE.
9. ALL MANHOLES TO BE MASSILLON CITY STANDARD.
10. BACKFILL MUST BE AT OPTIMUM MOISTURE.
11. CITY'S STANDARD ON BRICK LAYING IN FREEZING WEATHER WILL BE STRICTLY ADHERED TO.
12. BEDDING IS TO BE INCLUDED IN THE PRICE OF PIPE. SEE SKETCH FOR STANDARDS. CITY WILL NOT PAY FOR EXCESS MATERIAL IF CONTRACTOR EXCAVATES DITCH WIDER OR DEEPER THAN PLAN SPECIFY.
13. CONTRACTOR SHALL NOTIFY CITY OF MASSILLON AND PERRY TOWNSHIP, POLICE & FIRE DEPTS., WHEN TRAFFIC IS CLOSED ON 9TH S.W. (ORDBROOK)
14. SEE ATTACHED SHEET M-578 FOR STANDARDS ON SANITARY MANHOLE CASTINGS.
15. WYE & LATERAL LOCATIONS ARE APPROXIMATE THE INSPECTOR AND CONTRACTOR WILL CHECK WITH THE PROPERTY OWNER AS TO THE LOCATION OF EACH CONNECTION. LATERALS SHALL BE ON THE LOW SIDE OF EACH LOT
16. CAST IRON PIPE USED IN THE SANITARY SEWER LINES THROUGH THE SPECIAL STORM MANHOLES SHALL BE CLASS 22, THE CAST IRON PIPE SHALL BE COATED INSIDE AND OUT WITH COAL-TAR PITCH VARNISH. COATING DAMAGED IN SHIPMENT OR IN HANDLING SHALL BE RETOUCED AS DIRECTED BY THE INSPECTOR.
17. CONTRACTOR WILL NOT BE PAID FOR ANY WORK OUTSIDE THE CONSTRUCTION LIMITS, SEEDING AND FERTILIZING ASPHALT ETC.
18. SUCCESSFUL BIDDERS WILL HAVE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY ENGINEER BEFORE WORK CAN COMMENCE.
19. SEWER CONTRACTOR MUST HAVE THE SEWER DITCH COMPACTED TO THE ORIGINAL GRADE THAT EXISTED WHEN WORK BEGUN.



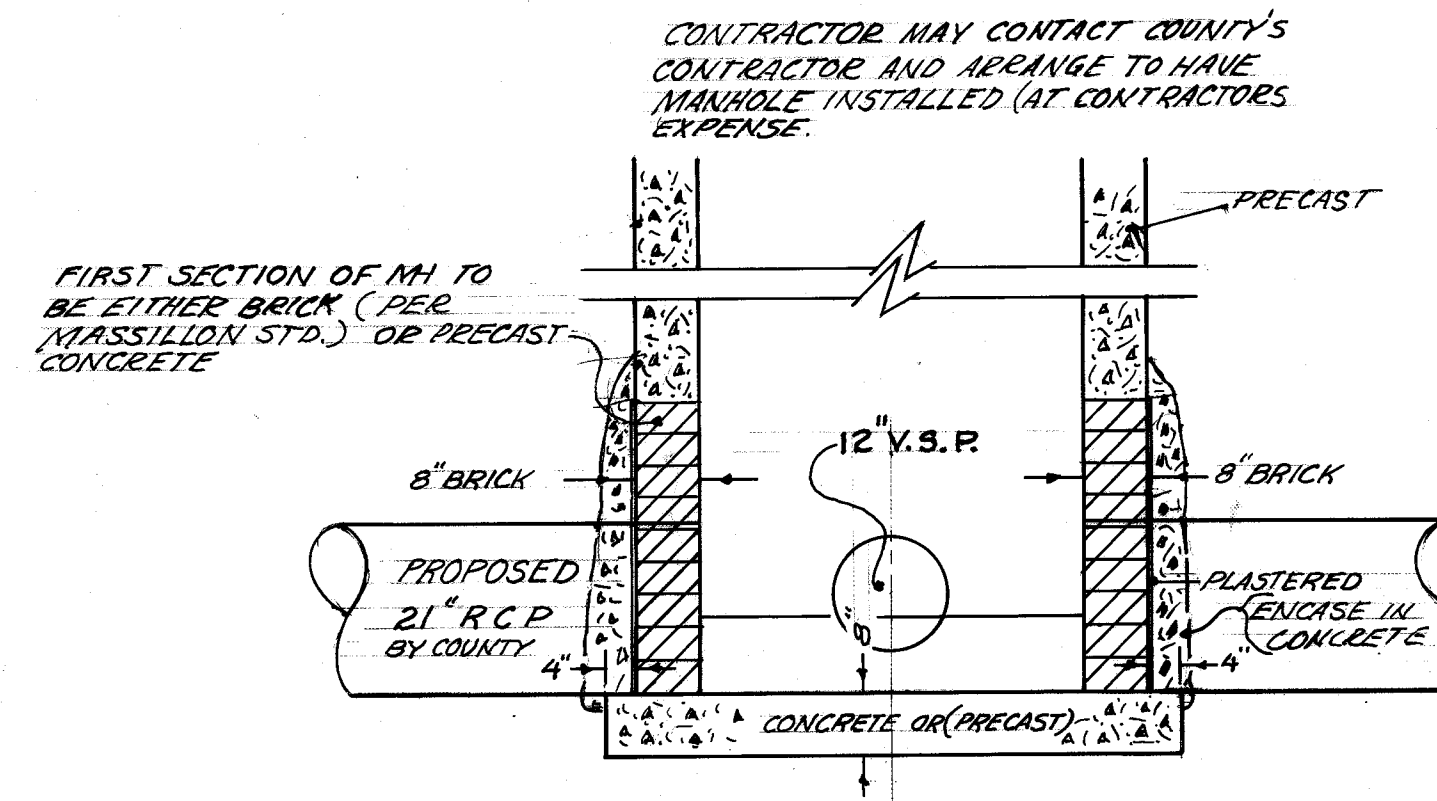
SANITARY SEWER MANHOLE



TYPICAL SEIVER DITCH



CONCRETE ENCASEMENT AT CREEK



MANHOLE AT COUNTY TRUNK

CITY OF MASSILLON, OHIO			
GENERAL NOTES & DETAILS			
MASS. INDUSTRIAL PARK SANITARY			
DR BY RONNIE MCPHERSON		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION	
CITY ENG. ROBERT WAGONER		6/6	