

MASSILLON , OHIO

WALNUT RD. S.E.

STREET IMPROVEMENTS

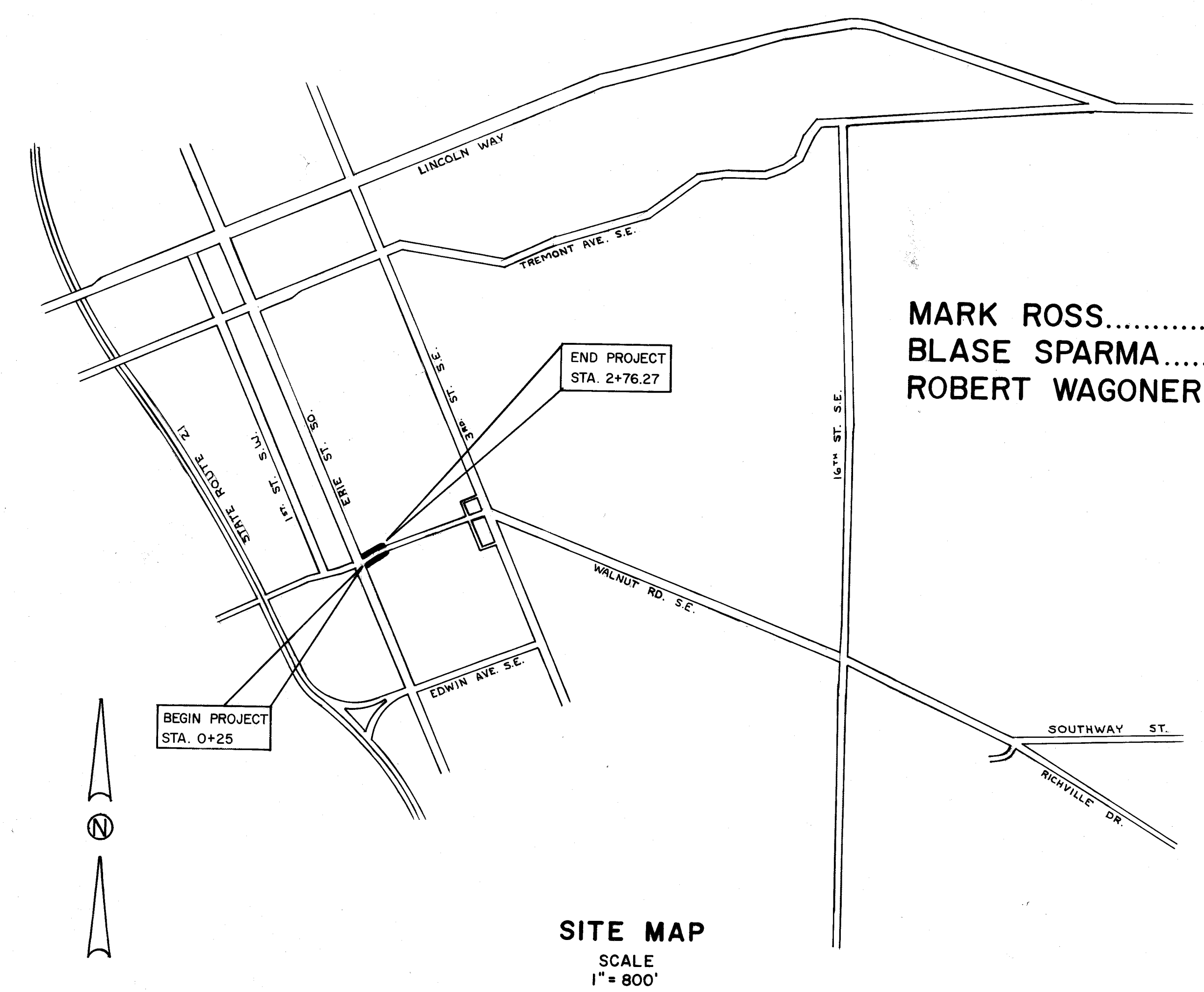
1975 SPECIFICATIONS

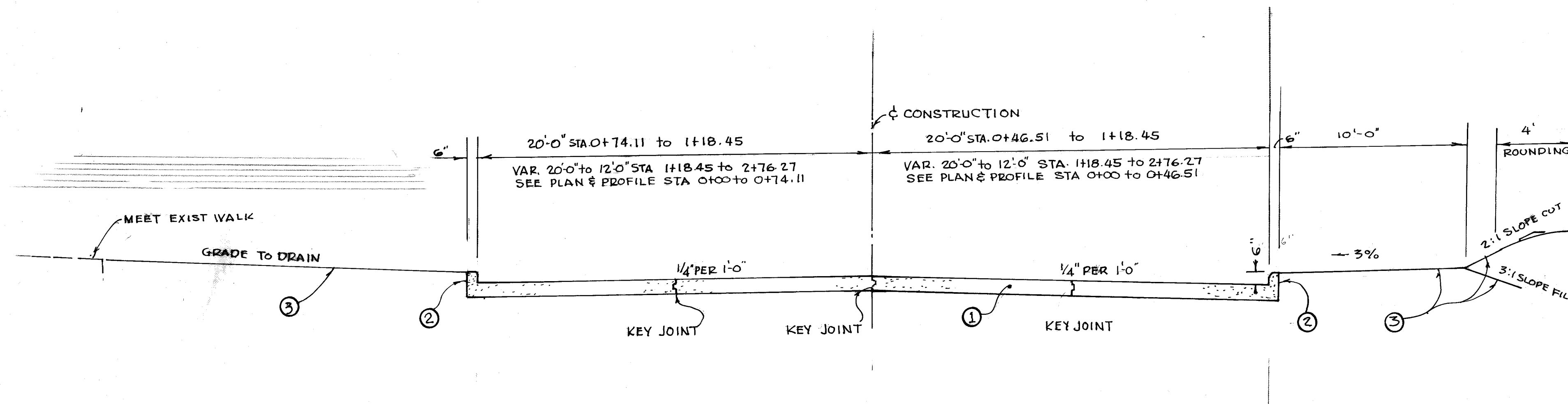
THE STANDARD SPECIFICATION OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

INDEX OF SHEETS

TITLE SHEET.....	1
GENERAL SUMMARY & TYPICAL SECTIONS.....	2
GENERAL NOTES.....	3
PLAN & PROFILE.....	4
CROSS SECTIONS.....	5
RIGHT-OF-WAY.....	6

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





- ① ITEM 452 9" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT
 ② ITEM 609 6" INTEGRAL CONCRETE CURB, TYPE 2-A
 ③ ITEM 659 SEEDING & MULCHING

GENERAL SUMMARY

FROM SHEET							DESCRIPTION	
	5	4	3	2	UNIT	TOTAL QUANTITY	ITEM	
ROADWAY								
					LUMP	LUMP SUM	201	CLEARING & GRUBBING
		50			S.Y.	50	202	PAVEMENT REMOVAL W/BASE
		334			S.Y.	334	202	PAVEMENT REMOVAL, NO BASE
		782			S.F.	782	202	SIDEWALK REMOVED
		344			L.F.	344	202	CURB REMOVED
		1			EA.	1	202	CATCH BASIN REMOVED
		14			L.F.	14	202	EXISTING PIPE REMOVED (ALSO SEE GEN. NOTES)
					C.Y.		203	EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION
				1124	S.Y.		203	SUBGRADE COMPACTION
		298			S.F.		608	4" CONC. WALK
					LUMP	LUMP SUM	616	DUST CONTROL
DRAINAGE								
		56			L.F.		603	15" CONDUIT R.C.P. TYPE B
		37			L.F.		603	18" CONDUIT R.C.P. TYPE B
		2			EA.		604	MASSILLON STANDARD CATCH BASIN TYPE A
		4			EA.		604	MANHOLES ADJUSTED TO GRADE (CATCH BASINS)
EROSION CONTROL								
				906	S.Y.		659	SEEDING & MULCHING
				0.19	TON		659	COMMERCIAL FERTILIZER
PAVEMENT								
				10729	S.Y.		452	9" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT
		28			S.Y.		452	6" PLAIN CONCRETE DRIVE
				543	L.F.		609	6" INTEGRAL CONCRETE CURB
				230	C.Y.		404	1" ASPHALT CONCRETE
				426	C.Y.		402	3" ASPHALT CONCRETE
		12			L.F.		649	6" X 18" CONC. CURB
				2.8	C.Y.		305	8" CONC. BASE (PORTLAND CEMENT)

SEEDING & MULCHING, ITEM 659

NORTH SIDE, LT.	STA.	WIDTH	AVE. WIDTH	AVE. LENGTH	
	0+25	14	14	5	70 S.F.
	0+30	14			
	0+35	22	27	32	3104
	0+40	32	26	44	1144
	1+18	12	16	33	528
	1+50	2	7	39	273
	1+89	2	2	17	34
	2+06				
	2+41	2	2	39	78
	2+80	2			
SOUTH SIDE, RT.	STA.	WIDTH	AVE. WIDTH	AVE. LENGTH	
	0+25	5	5	5	25
	0+30	5			
	0+35	20	17.5	19	332
	0+40	15	16.5	55	908
	1+00	18	18	50	900
	1+50	18	16.5	45	743
	2+00	15	15	27	405
	2+30	15	14.5	24	348
	2+55	14		24	264
	2+80	8	11		
					8156 S.F.

$$8156 \times \frac{1}{9} = 906 \text{ S.Y. TOTAL ITEM 659}$$

FERTILIZER ITEM 659

$$906 (\text{SEEDING}) \times 0.000215 = 0.19 \text{ TON TOTAL ITEM 659}$$

ITEM 305

STA. 0+24.5 TO 0+25

$$1.0 (50.3 \times 62.8) \times \frac{8}{36} = 2.8 \text{ C.Y.}$$

CALCULATIONS:

PAVEMENT, ITEM 452

$$0+25 \text{ to } 1+18.45 \quad 93.45 \text{ L.F.} \times 41.0 = 3831.5 \text{ S.F.}$$

$$1+18.45 \text{ to } 2+76.27$$

$$\frac{22^\circ 21' 16''}{360^\circ} \pi \times 218.02 = 9272.2$$

$$+ 80.86 \frac{218.02 + 389.61 + 25}{2} = 25,517.2$$

$$= \frac{22^\circ 21' 16''}{360^\circ} \pi \times 389.61 = 29,610.8$$

$$5,238.6 \text{ S.F.}$$

@CURB RETURNS

$$\text{NORTH} \quad 34.5 \times 43 (\text{SCALED}) - \frac{108^\circ 04' 11''}{360^\circ} \pi \times 34.5 = 402.6$$

$$\text{SOUTH} \quad 34.5 \times 29.5 (\text{SCALED}) - \frac{80^\circ 19' 10''}{360^\circ} \pi \times 34.5 = 183.6$$

$$586.2 \text{ S.F.}$$

$$\text{TOTAL} \quad 9656.3 \text{ S.F.}$$

$$\frac{9656.3}{9} = 1072.9 \text{ S.Y. TOTAL ITEM 452}$$

CURB, ITEM 609

$$\text{NORTH SIDE} \quad \text{CURVE 1} \quad 63.57$$

$$\text{CURVE 2} \quad 40.99$$

$$\text{CURVE 3} \quad 84.87$$

$$\text{TAN 1+91.51 to 2+76.27} \quad 80.86$$

$$270.29 \text{ L.F.}$$

$$\text{SOUTH SIDE} \quad \text{CURVE 4} \quad 40.58$$

$$\text{CURVE 5} \quad 76.53$$

$$\text{CURVE 6} \quad 152.20$$

$$269.31$$

$$\text{TOTAL} \quad 539.60$$

$$540 \text{ TOTAL ITEM 609}$$

SUBGRADE COMPACTION, ITEM 203

$$\text{STA. 0+25 to 2+76.27 FROM ITEM 452} \quad 1072.9 \text{ S.Y.}$$

$$\text{STA. 2+76.27 to 2+96.27}$$

$$\frac{24+22}{2} \times 20 \times \frac{1}{9} = 51.1 \text{ S.Y.}$$

$$\text{TOTAL ITEM 203} \quad 1124.0 \text{ S.Y.}$$

ASPHALT ITEM 404

$$\text{STA. 2+76.27 to 2+96.27}$$

$$20 \frac{(24+22)}{2} \times \frac{1}{36} = 1.42 \text{ C.Y.}$$

$$\text{STA. 0+24.5 to 0+25}$$

$$1.0 \times (50.3 + 62.8) \times \frac{2.5}{36} = 0.88 \text{ C.Y.}$$

$$\text{TOTAL ITEM 404} \quad 2.30 \text{ C.Y.}$$

ASPHALT ITEM 402

$$\text{STA. 2+76.27 to 2+96.27}$$

$$20 \frac{(24+22)}{2} \times \frac{1}{36} = 4.26 \text{ C.Y.}$$

$$\text{TOTAL ITEM 402} \quad 4.26 \text{ C.Y.}$$

CITY OF MASSILLON, OHIO

WALNUT RD. SE. & ERIE ST. SO.

INTERSECTION IMPROVEMENT

DR. BY ROBERT WAGONER DEPT. OF PUBLIC SERVICE

CITY ENG. ROBERT WAGONER ENGINEERING DIVISION

SCALE 1"=40' DATE 8/3/75

FILE NO. P-302 ACC NO. 2717

GENERAL NOTES

3
6

REFERENCE

ALL REFERENCES TO ITEM NUMBERS (OR SECTIONS THEREOF) APPEARING IN THESE PLANS SHALL BE CONSIDERED TO READ ITEM NUMBER (OR RESPECTIVE SECTIONS THEREOF) OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS IN FORCE ON JANUARY 1, 1975.

ROUNDING OF CORNERS SHOWN ON CROSS SECTION

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS. APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

DRIVES

THE LOCATION OF DRIVES, AS SHOWN, MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF MASSILLON DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.

PUBLIC SERVICE CORPORATION OR AGENCIES

EAST OHIO GAS COMPANY
1717 EAST NINTH STREET
CLEVELAND, OHIO 44114

OHIO BELL TELEPHONE COMPANY
832 MCKINLEY AVE. N.W.
ROOM 01
CANTON, OHIO 44703

OHIO EDISON COMPANY
48 FIRST STREET N.E.
MASSILLON, OHIO

OHIO WATER SERVICE
161 LINCOLN WAY EAST
MASSILLON, OHIO

MASSILLON CABLE T.V.
814 CABLE COURT N.W.
MASSILLON, OHIO

MASSILLON CITY ENGINEER (SANITARY)
CITY HALL
CITY HALL COURT
MASSILLON, OHIO

ESTIMATED QUANTITIES

SPECIFIC LOCATIONS AND USAGE OF ESTIMATED QUANTITIES SET UP ON THIS PLAN TO BE USED "AS DIRECTED BY THE ENGINEER" SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT. ESTIMATED QUANTITIES OF MATERIALS SHALL NOT BE ORDERED FOR DELIVERY TO THE PROJECT UNLESS AUTHORIZED BY THE ENGINEER.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN WORK LIMITS AS SHOWN ON THE CROSS-SECTIONS.

ENGINEER. ALL AREAS OUTSIDE OF THE WORK LIMITS WHERE THE VEGETABLE GROWTH HAS BEEN DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE SEEDED OR SODDED, AS REQUIRED, IN ACCORDANCE WITH THE SPECIFICATIONS BY THE CONTRACTOR AT NO EXTRA COST TO THE CITY.

COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED OR SODDED SHALL HAVE COMMERCIAL FERTILIZER (12-12-12) MIX APPLIED AT THE RATE OF TWENTY POUNDS PER 1000 SQUARE FEET.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

CITY OF MASSILLON RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN THE VARIOUS EXCAVATION ITEM SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE SHOWN IN THE PLANS.

CONNECTIONS TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS.

TRAFFIC

TRAFFIC CONTROL SHALL BE A LUMP SUM ITEM, CONTRACTOR WILL FURNISH ALL BARRICADES, FLASHERS, DETOUR SIGNS, POLICE ETC.

OVERTIME

CONTRACTOR SHALL PAY THE CITY'S INSPECTORS FOR ALL WORK BEFORE 8:30 A.M. AND AFTER 4:30 P.M. MONDAY THRU FRIDAY AND ALL HOURS ON SATURDAY AND SUNDAY OR HOLIDAYS AT TIME AND ONE HALF THE RATE IN THE CITY'S WAGE ORD. THAT IS IN EFFECT.

NOTIFY

CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE WORK IS BEGUN.

SALVAGED

ALL SALVAGED MATERIAL, CULVERTS, ETC. TO REMAIN PROPERTY OF THE CITY.

CONCRETE TEST

CONTRACTOR SHALL PROVIDE CYLINDERS FOR CONCRETE TEST. THESE CYLINDERS SHALL BE TAKEN FOR EACH DRY POURS AND INTERMEDIATE LOAD OF CONCRETE AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL BEAR THE EXPENSE OF TESTING THE CYLINDERS.

INTERSECTION IMPROVEMENT

CITY OF MASSILLON, OHIO	
GENERAL NOTES	
WALNUT RD. & ERIE SOUTH S.E.	
DR. BY RONALD MCPHERSON	DEPT. OF PUBLIC SERVICE
CITY ENG. ROBERT WAGONER	ENGINEERING DIVISION

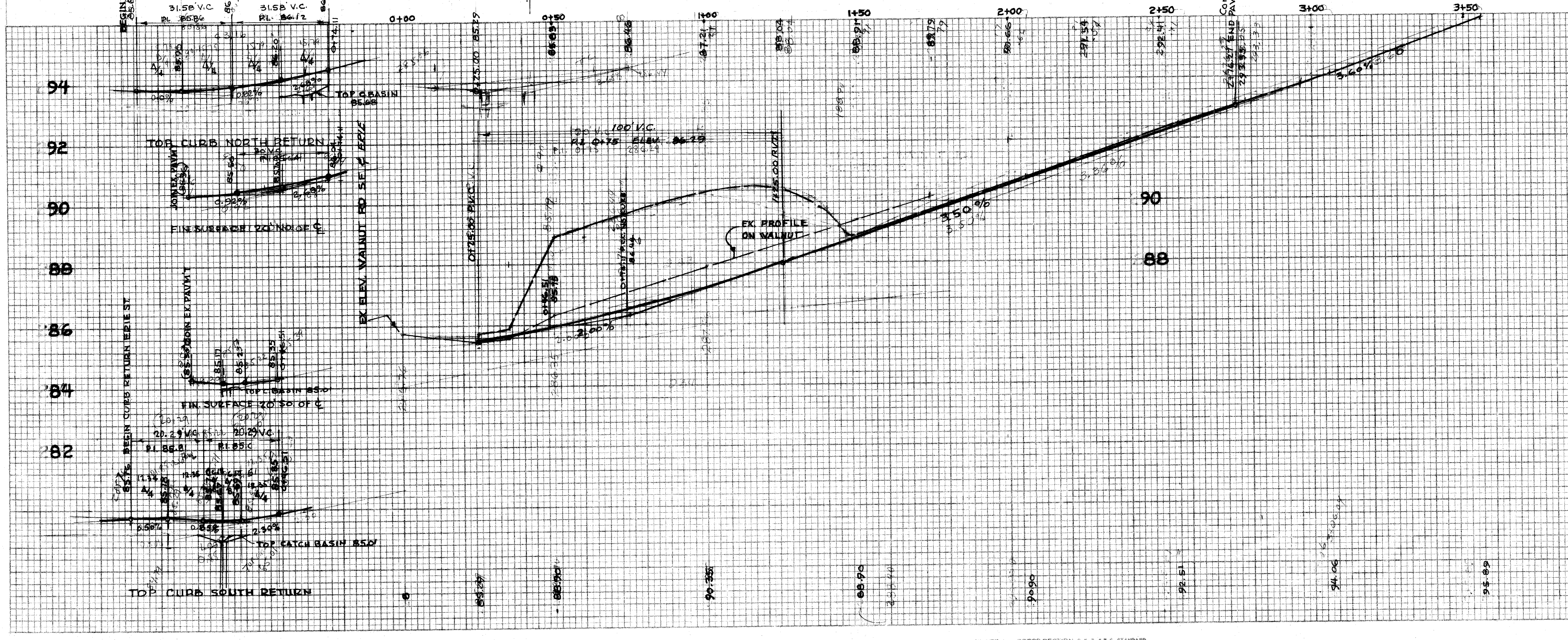
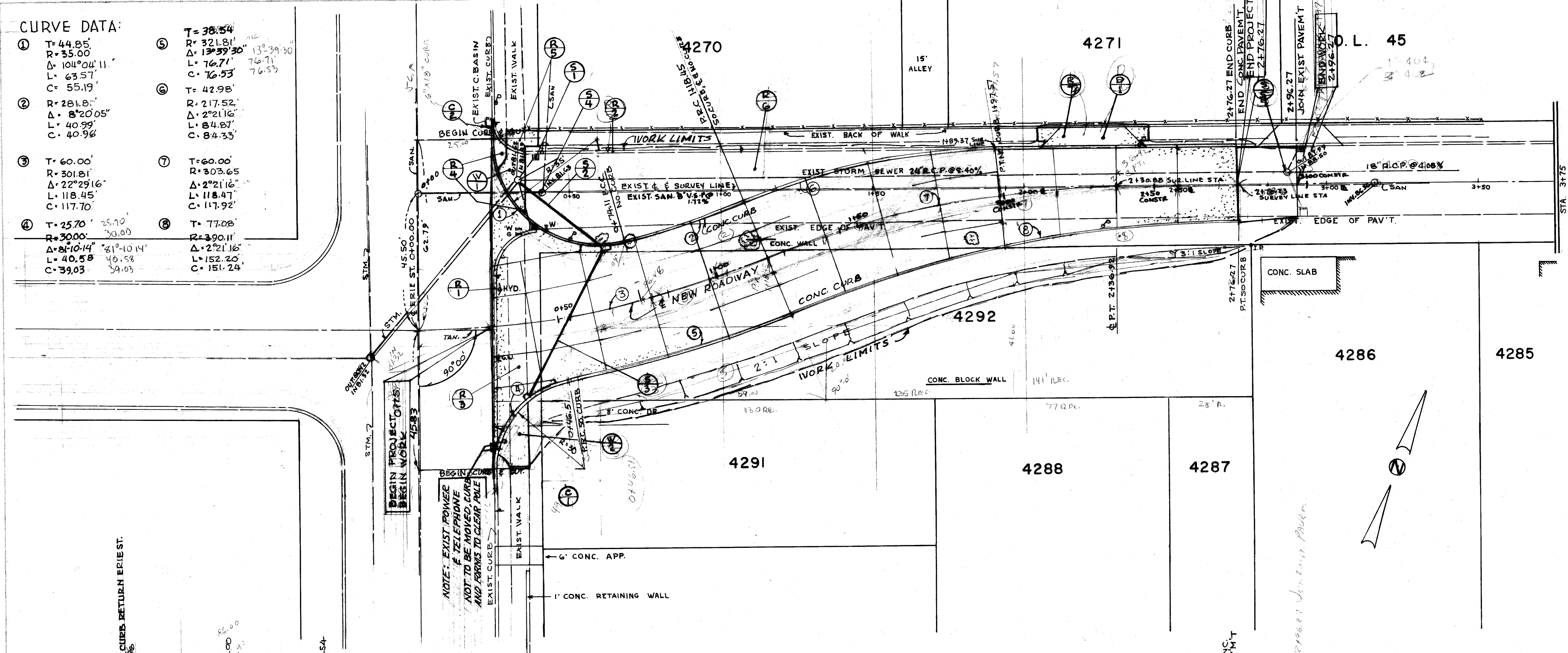
FILE NO. P-302 ACC NO. 2718

CURVE DATA:

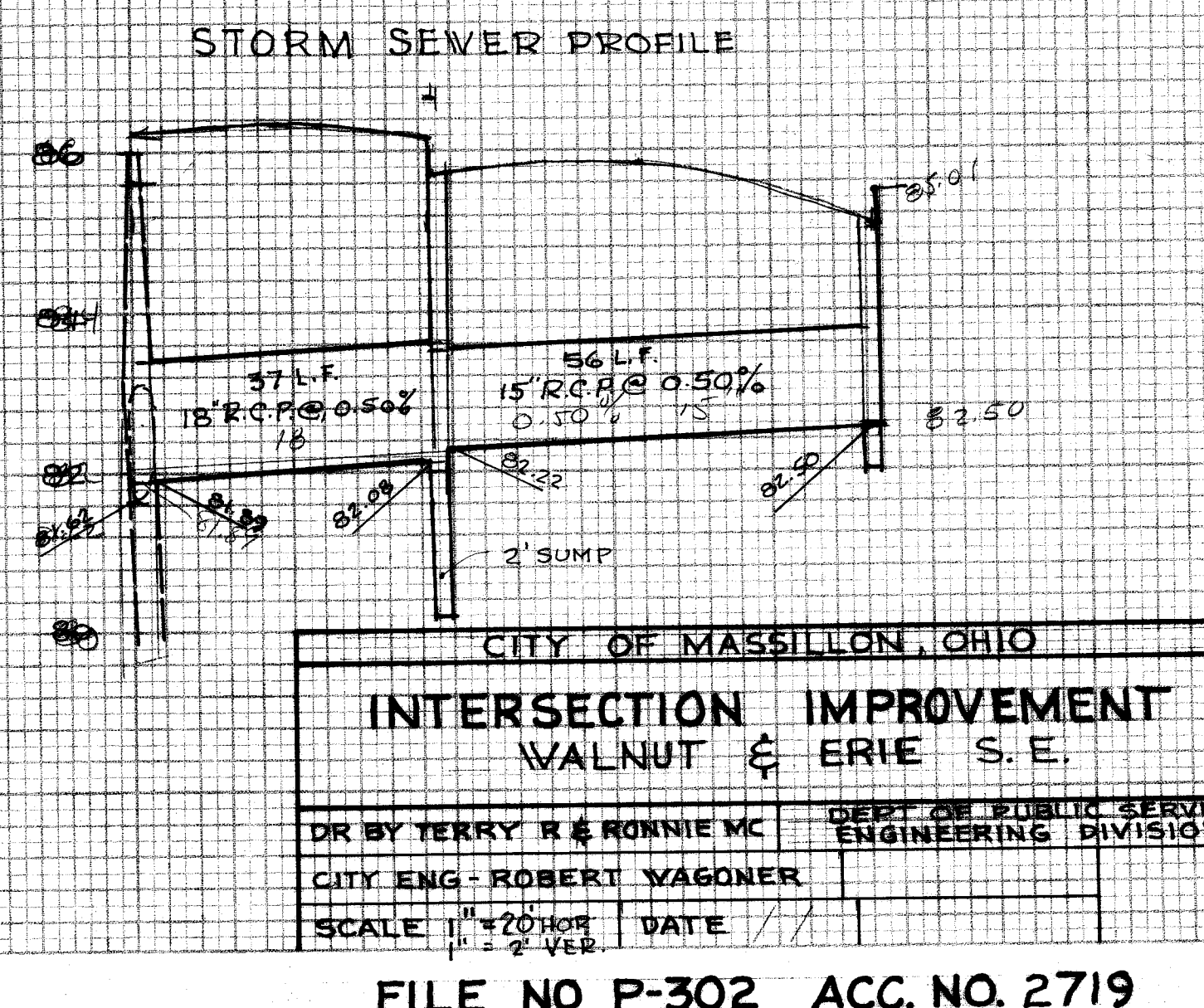
①	T=44.85' R=35.00' Δ=104°04'11" L=63.57' C=55.19'	⑤	T=38.54' R=32.81' Δ=139°39'30" L=76.71' C=76.53'
②	T=281.8' R=2020.05' L=40.99' C=40.96'	⑥	T=42.98' R=217.52' Δ=2°21'16" L=84.87' C=84.33'
③	T=60.00' R=301.81' Δ=22°29'16" L=118.45' C=117.70'	⑦	T=60.00' R=303.65' Δ=2°21'16" L=118.47' C=117.92'
④	T=25.70' R=30.00' Δ=81°10'14" L=40.58' C=39.03'	⑧	T=77.08' R=323.01' Δ=2°21'16" L=152.20' C=151.24'

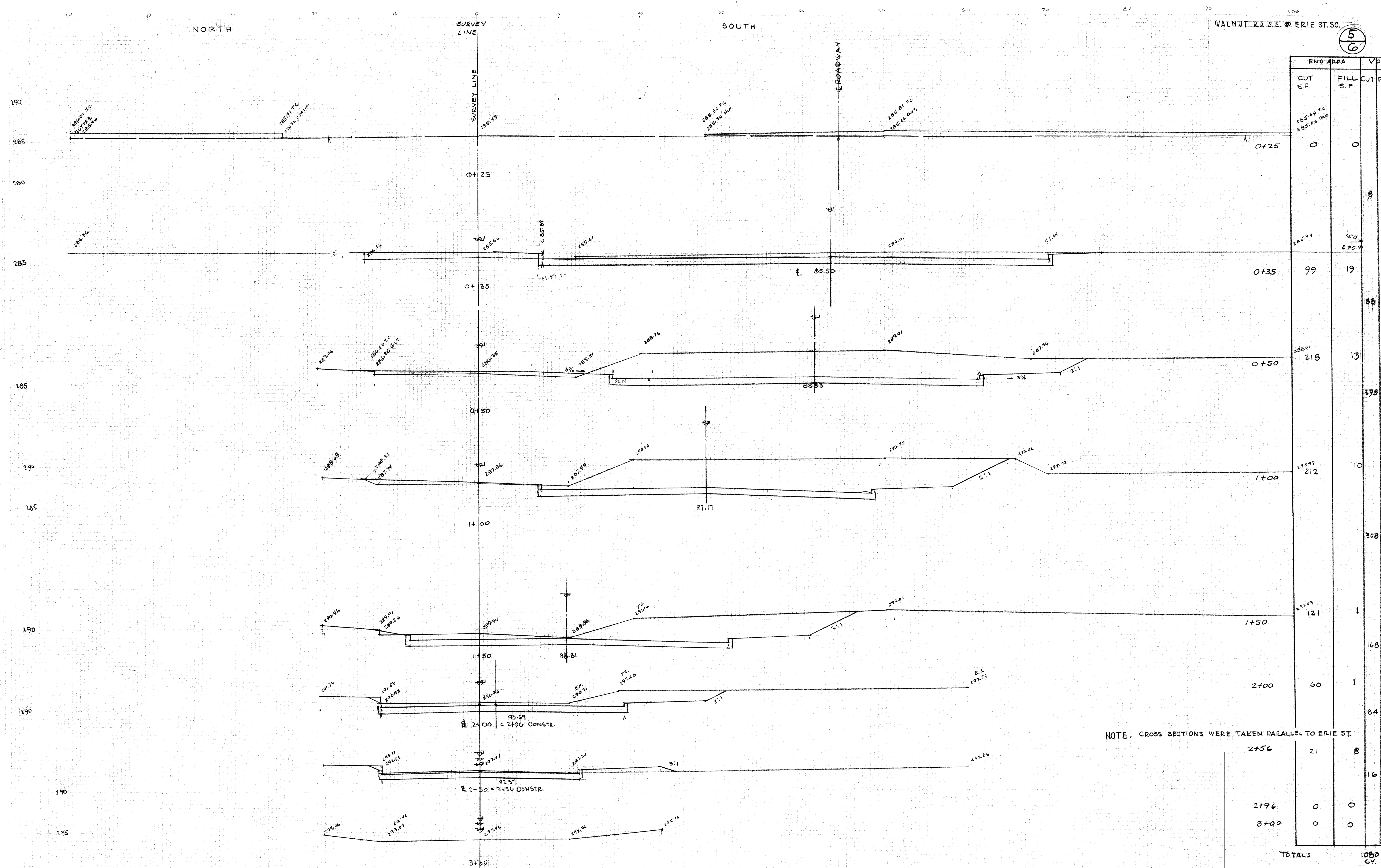
FINAL SURVEY
DATE: _____
BY: _____
NO. _____
AREAS CHECKED: _____

ORIGINAL SURVEY
DATE: _____
BY: _____
NO. _____
AREAS CHECKED: _____



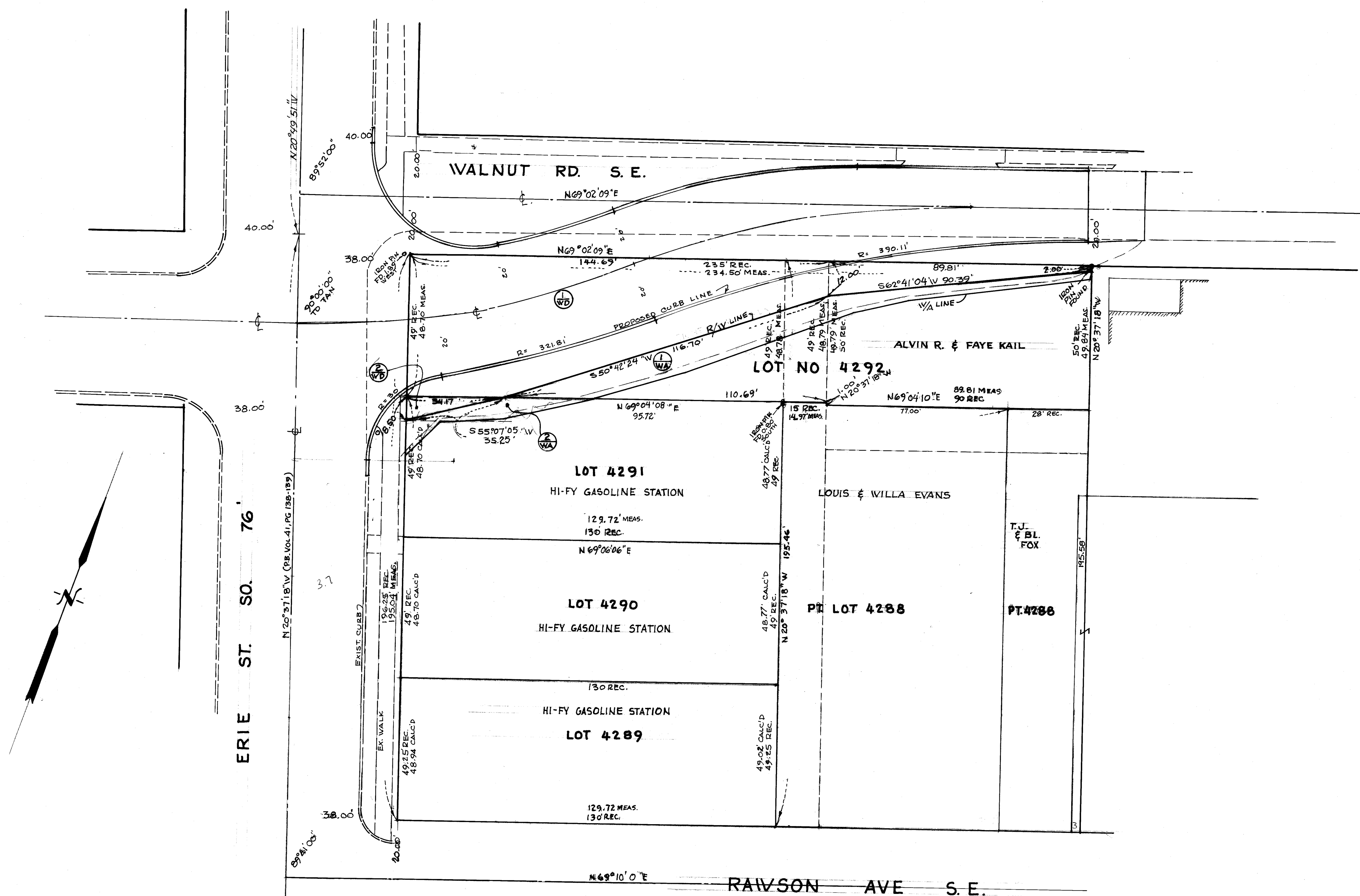
ESTIMATED QUANTITIES									
REF. NO.	STA. TO STA.	SIDE	604 ADJ. TO GR.	604 MAR. STOC. B.T.Y.	603 18"	603 15"			
S-1	0+45	LT.	1 C.BASIN						
S-2	0+38 to 0+45	LT.		W/WHIP	37 L.F.				
S-3	0+32 to 0+45	LT.	2 M.H.			56 L.F.			
S-4	0+40 to 0+47	LT.	1 M.H.						
S-5	2+87	LT.	4 M.H.C.	2	37	56			
TOTALS									
REMOVALS									
REF. NO.	STA. TO STA.	SIDE	PAV. M.T.	250' WALK	CURB	PIPE	C.BASIN		
R-1	0+25 to 0+38	LT.			92 L.F.				
R-2	0+30 to 0+27	LT.			252 L.F.				
R-3	0+30 to 0+36	LT.		464 S.F.					
R-4	0+25 to 0+45	LT.	505 W/WHIP			14 L.F.	1		
R-5	0+27 to 0+46	LT.		67 S.F.					
R-6	0+40 to 0+46	LT.		251 S.F.					
R-7	2+87 to 2+87	LT.							
TOTALS				563 S.F.	782 S.F.	344 L.F.	14 L.F.	1	
REF. NO.	STA. TO STA.	SIDE	452 6"	608 4"	609 6" W/WHIP				
D-1	2+13 to 2+47	LT.	251 S.F.						
W-1				193 S.F.					
W-2				185 S.F.					
C-1	0+25	RT.			6 L.F.				
C-2	0+25	LF.			6 L.F.				
TOTALS			251 S.F.	298 S.F.	12 L.F.				





NOTE: CROSS SECTIONS WERE TAKEN PARALLEL TO ERIE ST.

END AREA		VOLUME	
CUT S.F.	FILL S.F.	CUT	FILL
285.66 TC 285.26 CUT			
0	0		
285.99	150		
99	19		
288.01			
218	13		
288.98			
212	10		
291.09			
121	1		
291.51			
60	1		
292.86			
21	8		
0	0		
0	0		
TOTALS		1080	



I HEREBY CERTIFY THAT LOT NO. 4292 WAS SURVEYED BY ME.

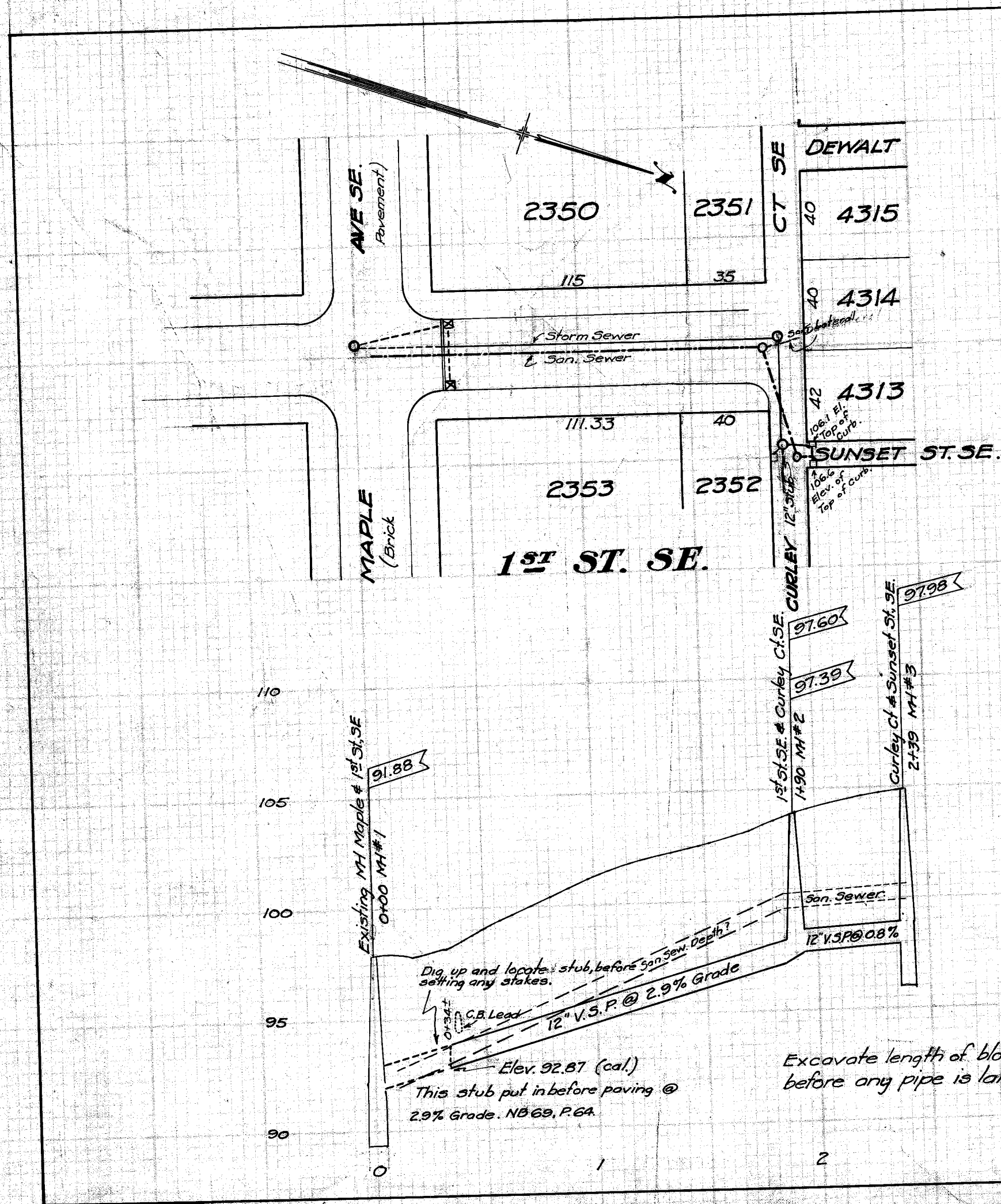
Robert Wagoner
REGISTERED SURVEYOR

SUMMARY OF ADDITIONAL RIGHT-OF-WAY REQUIRED											
PARCEL NO.	OWNER	LOT NO.	DEED RECORD		REQUIRED		NET TAKE		NET RESIDUE		REMARKS
			BOOK	PAGE	DEED AREA	DEED PRO.	LAND	BLDG	LEFT	RIGHT	
1 WD	HI-FY GASOLINE STATION INC.	4291	2714	129	6321 S.F.	O.S.F.	146 S.F.	NONE	0	6175 S.F.	NOT PART OF PROJECT
1 WA	" " " "	"	"	"	"	"	"	"	"	"	NOT PART OF PROJECT
2 WD	ALVIN R. & FAYE KAIL	4292	3438	354	11526 S.F.	O.S.F.	5647 S.F.	NONE	0	5887 S.F.	WORK AREA & SLOPE
2 WA	" " " "	"	"	"	"	"	"	"	"	"	WORK AREA & SLOPE

INTERSECTION IMPROVEMENT

CITY OF MASSILLON, OHIO	
PROPERTY MAP	
WALNUT RD & ERIE SOUTH S.E.	
DR BY RONNIE MCPHERSON	DEPT. OF PUBLIC SERVICE
CITY ENG. ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1" = 20'	DATE 8/13/75

FILE NO. P-302 ACC. NO. 2721



B.M.
Hyd. Cor. Maple St. SE & 1st St. SE.
Elev. = 103.04

CITY OF MASSILLON, OHIO.
1ST ST. SE., STORM SEWER
FROM MAPLE AVE., SE. TO CURLEY CT., SE.

APPROVED:-		DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION	
	CITY ENGINEER		
DR BY G.C.WALLACE	SCALE 1" = 5' VER 1" = 50' HOR	NOV. 28 th 1931	NB. 104-P-65
CK BY			

FILE NO SE 302
ACC NO 1186