

CITY OF MASSILLON, OHIO

PROJECT NO. P-305
17TH STREET SW. & N.W.

15

17TH STREET S.W. & N.W. STREET IMPROVEMENT (FIRST PHASE)

TREMONT AVE S.W., NORTHERLY TO STA. 8+39.00

CONVENTIONAL SIGNS

MANHOLES	O NEW O EXIST.
EDGE PROPOSED PAV'T	
Q SURVEY	
UNDER GROUND CABLE	
QTR SECTION LINE	
EXISTING RIGHT-OF-WAY	
PROPOSED RIGHT-OF-WAY	
SECTION LINE	
CORPORATION LINE	
FENCE LINE	
GUARD RAIL (EXISTING)	
GUARD RAIL (PROPOSED)	
PROPERTY LINE	
POWER POLES	
TELEPHONE POLES	
TREES OR STUMPS (EXISTING)	
TREES OR STUMPS (TO BE REMOVED)	
EXISTING UNDERGROUND UTILITIES	
GAS VALVE	
WATER VALVE	
FIRE HYDRANT	
RAILROAD	
TOWNSHIP LINE	
POLES	
SIGNS	
LIGHT POLES	
WATER LINE	
GAS LINE	
SANITARY SEWER	
STORM SEWER	
TEMPORARY EASEMENT	
SLOPE EASEMENT	
WORK AGREEMENT	
SEWER EASEMENT	

(FIRST PHASE) INDEX OF SHEET

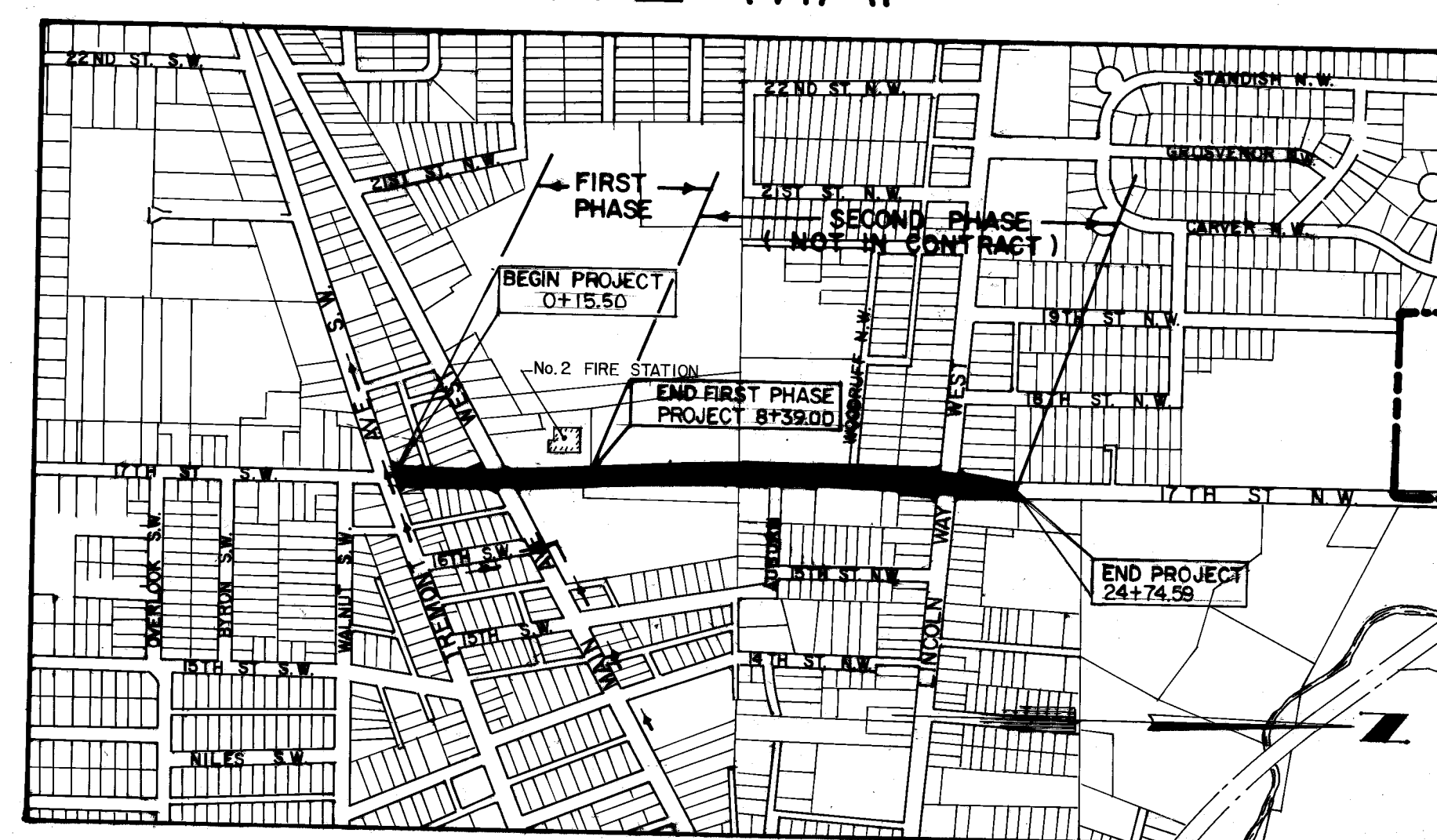
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CITY OF MASSILLON STANDARD DRAWINGS

FILE NO. M-578 - ACC. NO. 2367
FILE NO. M-581 - ACC. NO. 2370

BUREAU OF ROADWAY DESIGN OHIO DEPT. OF TRANSPORTATION
DRAWING BP-12 (USE ZEROX COPIES)

— SITE MAP —



0 600 1200 1800
SCALE IN FEET

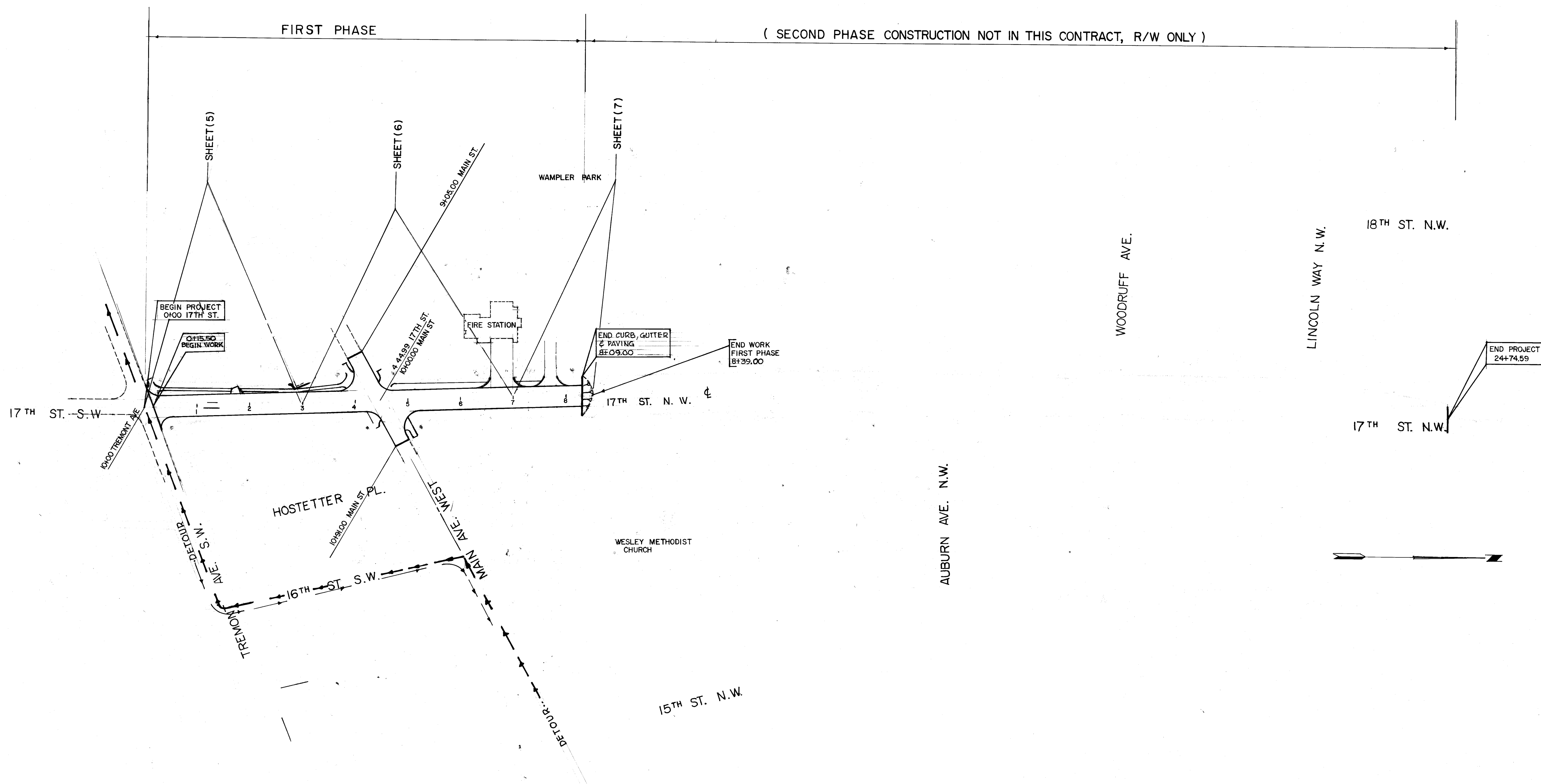
MAYOR..... MARK ROSS
SAFETY SERVICE DIR..... BLASE SPARMA
CITY ENGINEER..... ROBERT WAGONER

BOARD OF STARK COUNTY COMMISSIONERS

NORMAN W. SPONSELLER, PRES.
VIRGIL MUSSER
ROBERT C. SCHIRACK

PREPARED BY RON MCPHERSON
MASSILLON CITY ENGINEERING DEPARTMENT

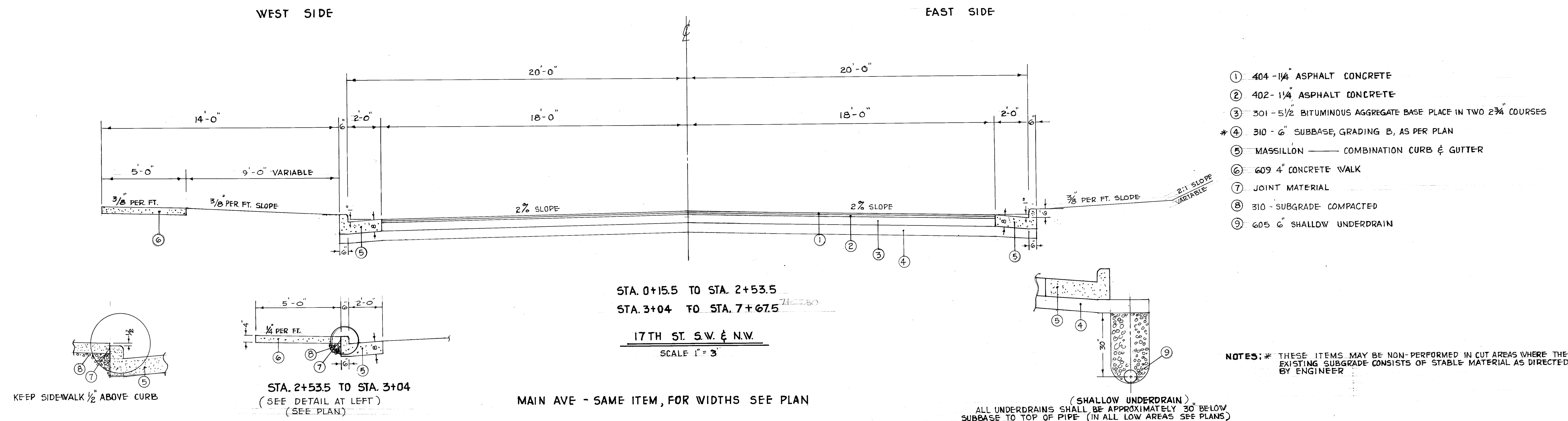
SCHEMATIC LAYOUT



DRAWN BY	DATE	REVISIONS DESCRIPTION
CHECKED BY		

CITY OF MASSILLON, OHIO	
SCHEMATIC LAYOUT PLAN	
17 TH ST. N.W., S.W.	
DR. BY TERRY L. RIDGLEY	DEPT. OF PUBLIC SERVICE
CITY ENGINEER ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1" = 100'	

TYPICAL SECTIONS



GENERAL NOTES

REFERENCE

ALL REFERENCES TO ITEM AND SECTION NUMBERS APPEARING IN THESE PLANS SHALL BE CONSIDERED TO READ ITEM AND SECTION NUMBERS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS IN FORCE ON JANUARY 1, 1977. CITY OF MASSILLON STANDARD CURB AND GUTTER, CATCH BASINS AND MANHOLES SHALL BE USED.

NOTIFICATION

THE CONTRACTOR SHALL NOTIFY POLICE AND FIRE AUTHORITIES PRIOR TO CONSTRUCTION AS TO CLOSING OF MAIN AVENUE WEST.

UNDERGROUND UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECK 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, APPROXIMATE DEPTH OF UTILITIES ARE:

OHIO WATER SERVICE CO. VARIES 4 TO 5 FT. COVER
EAST OHIO GAS CO. VARIES 2 1/2 TO 3 FT. COVER
OHIO BELL TELEPHONE VARIES 1 1/2 TO 3 FT COVER

LIST OF AFFECTED UTILITIES

THE EAST OHIO GAS CO.
1717 EAST NINTH ST.
CLEVELAND, OHIO 44114

OHIO BELL TELEPHONE CO.
832 MCKINLEY AVE, NW
ROOM 01
CANTON, OHIO 44703.

LIST OF AFFECTED UTILITIES

OHIO EDISON COMPANY
48 1ST STREET, N.E.
MASSILLON, OHIO 44646

OHIO WATER SERVICE COMPANY
123 THIRD ST. S.E.
MASSILLON, OHIO 44646

MASSILLON CABLE T.V.
814 CABLE CT. N.W.
MASSILLON, OHIO 44646

DRIVES

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

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 AND SODDING

QUANTITIES FOR SEEDING AND SODDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN WORK LIMITS AS SHOWN ON THE CROSS-SECTIONS. AREAS IN FRONT OF RESIDENCES. BETWEEN CURBS AND SIDEWALKS AND OTHER AREAS SHALL BE SODDED AS DIRECTED BY THE ENGINEER. ALL AREAS OUTSIDE OF THE WORK LIMITS WHERE THE VEGETABLE GROWTH HAS BEEN DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE SEEDDED OR SODDED, AS REQUIRED, IN ACCORDANCE WITH THE SPECIFICATIONS BY THE CONTRACTOR AT NO EXTRA COST TO THE CITY.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS WHICH WOULD NORMALLY BE REMOVED IN THE VARIOUS EXCAVATION ITEMS 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.

OLD FOUNDATIONS

IF OLD FOUNDATIONS, CISTERNS, OR WELLS ARE ENCOUNTERED DURING EXCAVATION OR GRUBBING, THE COST TO REMOVE SUCH SHALL BE INCLUDED IN THE COST OF CLEANING AND GRUBBING. IF ANY EXISTING FILLS ARE ENCOUNTERED, THEY SHALL BE RECOMPACTED AND INCLUDED IN THE ESTIMATE ITEM.

COOPERATION

THE CONTRACTOR SHALL COOPERATE WITH THE CONTRACTOR PRESENTLY BUILDING THE NUMBER 2 FIRE STATION AS TO ACCESS TO BUILDING SITE, AND JOINING IMPROVEMENTS OF THE DIFFERENT PROJECTS.

SCHEDULE

THE CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TENTATIVE SCHEDULE AS TO HOW HE PLANS TO PROCEED WITH THE WORK REQUIRED UNDER THIS CONTRACT INCLUDING SEQUENCE AND TENTATIVE DATE AS TO COMPLETION.

IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR CONCENTRATE HIS ENDEAVORS TO FINISH THE PORTION OF THE ROAD TO THE FIRE STATION AS SOON AS POSSIBLE

FIRST PHASE

THE CONTRACTOR SHALL NOTE THAT THIS CONTRACT IS FOR FIRST PHASE ONLY WORK. PORTION INDICATED ON THE PLAN FOR WORK BEYOND FIRST PHASE ARE NOT PART OF THIS CONTRACT.

608 CURB RAMP

AS PER BP-12, TYPE 2 TO BE USED AS DIRECTED BY THE ENGINEER, ESTIMATED QUANTITY OF 6 EACH.

HOUSE CONNECTIONS

EXISTING ROOF DRAIN AND YARD DRAIN DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING TO A STORM SEWER, MANHOLE, CATCH BASINS OR THROUGH CURB TO THE GUTTER FOOTER DRAIN MUST BE TAKEN TO A STORM SEWER MANHOLE, PIPE OR CATCH BASINS.

THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENT WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 4" CONDUIT, TYPE F, 711.29 (PLASTIC) 40 LIN.FT.
ITEM 603 6" CONDUIT, TYPE F, 706.08 40 LIN.FT.
ITEM 603 6" CONDUIT, TYPE F, 706.08 20 LIN.FT.

MAINTAINING TRAFFIC

TREMPONT AVENUE S.W.: TRAFFIC SHALL BE MAINTAINED EAST AND WEST ON TREMPONT AVE. S.W. AT ALL TIMES.

17th ST. N.W.
IF THIS PROJECT IS NOT COMPLETE WHEN NUMBER 2 FIRE STATION IS OPENED AND OPERATING THE CONTRACTOR SHALL PROVIDE TO SAID STATION OVER THE PROJECT BY INSTALLING THE REQUIRED SUBBASE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED

1 TON OF ITEM 616 CALCIUM CHLORIDE
10 M GAL. WATER

COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDDED OR SODDED SHALL HAVE COMMERCIAL FERTILIZER (18-46-0) MIX APPLIED AT THE RATE OF TWENTY POUNDS PER 1000 SQUARE FEET.

DUST CONTROL

THE FOLLOWING QUANTITIES OF CALCIUM CHLORIDE AND WATER ARE PROVIDED FOR DUST CONTROL FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 616 WATER 10 M.GALS
ITEM 616 CALCIUM CHLORIDE 1 TON

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVE WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201 CLEARING AND GRUBBING.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS
12"	1	0

THE ABOVE ESTIMATE IS APPROXIMATE AND THE CITY 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.

PAVEMENT REMOVAL OUTSIDE NORMAL CONSTRUCTION LIMITS

THE EXISTING PAVEMENT, AS INDICATED ON THE PLANS, SHALL BE REMOVED. THE OLD ROADWAY GRADED PER PLAN AND DISTURBED AREAS SLOPED TO DRAIN AND LEFT IN A NEAT CONDITION READY FOR

SODDING. PAYMENT FOR THE ABOVE WORK, EXCEPT SODDING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203, SEE SHEETS.

ITEM 605 SHALLOW UNDERDRAINS

UNDERDRAINS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY OF 500 LIN.FT. OF UNDERDRAIN HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR THESE ITEMS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY. REPRESENTATIVES OF THE CITY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, MANHOLES AND SUMP BASINS CONSTRUCTED AS A PART OF THIS PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 603 CONDUIT ITEMS OF THIS CONTRACT.

GENERAL SUMMARY

CALCULATIONS

4
15

ITEM	SHEET NUMBER												100% CITY TOTAL QUANT.	ITEM	GRAND TOTAL QUANT.	UNIT	DESCRIPTION
	5	6	7	8	9	10	11	12									
202	127	338												202	465	L.F.	CURB REMOVAL
202	530	975												202	1505	S.F.	WALK REMOVAL
202	2	7												202	9	EACH	REMOVE EXISTING CATCH BASIN
202	1	1												202	2	EACH	REMOVE EXISTING FENCE
202		390												202	390	S.F.	REMOVE EXISTING CONCRETE DRIVE
202		2408												202	2480	S.F.	REMOVE EXISTING ASPHALT DRIVE
202		1												202	1	EACH	REMOVE EXISTING MH COVER & CASTING, FILL WITH SAND
202		1												202	1	EACH	REMOVE EXISTING PIPE
202																	
202																	
202																	
201	LUMP SUM													201	LUMP SUM		GRUBBING
201	1 EACH TREE OVER 12" IN DIA. - SEE GENERAL NOTES													201	1	EACH	TREE OVER 12" IN DIA.
301	SEE CALCULATIONS													301	597	C.Y.	BITUMINOUS AGGREGATE BASE: 702.01 AC 20 OR 702.09
310	" "													310	723	C.Y.	SUBBASE - GRADING "B"
402														402	140	C.Y.	ASPHALT CONCRETE AC 20
402	SEE CALCULATIONS													404	140	C.Y.	ASPHALT CONCRETE AC 20
404														408	1561	GAL.	BITUMINOUS PRIME COAT 702.09 RT2 OR RT3, 702.02 MC 30 OR MC 70, 702.03 PRIMER 20
408	SEE CALCULATIONS													411	2	C.Y.	LIMESTONE
411	2													402	4.2	C.Y.	ASPHALT CONCRETE - TEMPORARY SIDEWALKS 1 1/2"
402	TEMPORARY SIDEWALKS													405	9	C.Y.	ASPHALT CONCRETE - TEMPORARY REPAIRS
405	SEE GENERAL NOTES																
601														601	8	C.Y.	DUMPED ROCK (6") (PER ENGINEER'S DIRECTION)
603	105	73												603	215	LIN. FT.	12" R.C.P. CLASS III
603	46	60												603	106	LIN. FT.	15" R.C.P. CLASS III
604	5	3												604	8	EACH	MANHOLE RECONSTRUCT TO GRADE
604	2	4												604		EACH	TYPE "A" CATCH BASIN
604	3	1												604	4	EACH	TYPE "B" CATCH BASIN
603		172												603	198	L.F.	18" R.C.P. CLASS III
603		5												603	5	L.F.	21" R.C.P. CLASS III
604		4												604	4		TYPE "A" DOUBLE CATCH BASIN
608	140	870												608	1335	SQ. FT.	4" WALKS PROJECT
608	328	464												608	792	SQ. FT.	6" DRIVE
608	1395	1830												608		SQ. FT.	4" WALKS CITY
609	SEE CALCULATIONS													609	1540	LIN. FT.	COMBINATION CURB & GUTTER, MASSILLON STD. (AS PER PLAN)
608	SEE GENERAL NOTES													608	6	EACH	CURB RAMP BP-12
603	SEE GENERAL NOTES													603	40	LIN. FT.	4" CONDUIT TYPE F, 711.29 (PLASTIC) (SEE NOTES)
603	SEE GENERAL NOTES													603	60	LIN. FT.	6" CONDUIT, TYPE F, 706.08 (SEE NOTES)
605	"	"	"	"	"	"	"	"	"	"	"	"		605	500	LIN. FT.	SHALLOW UNDERDRAINS (AS DIRECTED BY THE ENGINEER)
616	"	"	"	"	"	"	"	"	"	"	"	"		616	2	TON	CALCIUM CHLORIDE, MAINTAINING TRAFFIC & DUST CONTROL
616	"	"	"	"	"	"	"	"	"	"	"	"		616	20	M	WATER MAINTAINING, TRAFFIC & DUST CONTROL
659	SEE GENERAL NOTES													659	446	LBS	COMMERICAL FERTILIZER
614	SEE GENERAL NOTES													614	LUMP SUM		TRAFFIC CONTROL
653	ENGINEER'S DIRECTION													653	72	C.Y.	TOPSOIL NORTH OF TREMONT, IF NEEDED (PER ENGINEER'S DIRECTION)
660	SEE CALCULATIONS													660	2478	S.Y.	SOD
608		165												608	165	S.F.	8" CONC. APRON
203						269	340	699	423	684				203	2415	C.Y.	EXCAVATION (NOT INCLUDING EMBANKMENT)
203						255	264	123	174	7				203	823	C.Y.	EMBANKMENT

GENERAL NOTES

MAINTAINING TRAFFIC

MAIN AVENUE WEST: A DETOUR SHALL BE PROVIDED BY THE CONTRACTOR FOR MAIN AVENUE WEST AS SHOWN ON SHEET NUMBER 1. THE MAXIMUM AMOUNT OF TIME STREET CAN BE CLOSED TO TRAFFIC IS 25 WORKING DAYS. THE EXISTING PAVEMENT SHALL NOT BE REMOVED UNTIL REPAIRING CAN BE QUICKLY SCHEDULED THEREFORE KEEPING CLOSING TIME TO A MINIMUM. STORM SEWER INSTALLATION IF SCHEDULED PRIOR SHALL HAVE TEMPORARY PAVEMENT OF 2" 404 OR 405 ASPHALT PLACED OVER THE SURFACE OF THE CUT AREA.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR TEMPORARY REPAIRS.

405 ASPHALT CONCRETE - 9 CU. YDS.

PRIVATE ENTRANCE AND PEDESTRIAN TRAFFIC

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 104.04 AND SECTION 614.02 OF SPECIFICATION REGARDING VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS FOR THE RESIDENCE ADJACENT TO THE PROPOSED IMPROVEMENT. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ALONG AT LEAST ONE SIDE OF MAIN AVE. WEST USING THE EXISTING PROPOSED OR TEMPORARY WALKS AS MAY BE NECESSARY. IF TEMPORARY WALKS ARE REQUIRED THEY SHALL BE OF 402 ASPHALTIC CONCRETE. WHEN THE NEW ROADWAYS ARE OPENED TO VEHICULAR TRAFFIC, ALL THE PEDESTRIAN TRAFFIC FACILITIES ADJACENT TO ALL ROADWAY IMPROVEMENT SHALL ALSO BE OPENED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES AND LIGHTS AS MAY BE NECESSARY TO ACCOMMODATE TO A REASONABLE MANNER THE PEDESTRIANS TRAFFIC WHICH IS TO BE MAINTAINED.

PAYMENT FOR CONSTRUCTION, MAINTENANCE OR SUBSEQUENT REMOVAL OF THESE TEMPORARY WALKS SHALL BE INCLUDED IN ITEM 614 MAINTAINING TRAFFIC, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY IS PROVIDED IN THE GENERAL SUMMARY FOR TEMPORARY SIDEWALK.

ITEM 402 TEMPORARY SIDEWALK 1 1/2" 4.2 CU. YDS.

LIGHTS AND SIGNS AT ADJACENT ROAD INTERSECTION

THE CONTRACTOR SHALL IN ADDITION TO THE GENERAL REQUIREMENTS OF ITEM 614 ON THIS PROJECT PERFORM THE FOLLOWING:

PROVIDE, ERECT AND MAINTAIN STANDARD 48" X 30" SIZE "ROAD CLOSED" SIGNS SIGN SUPPORT AND LIGHT AT THE FOLLOWING LOCATIONS DURING PERIOD IN WHICH THE MAIN AVENUE WEST ROAD IS CLOSED TO TRAFFIC:

AT THE INTERSECTION OF MAIN AVENUE WEST, WEST OF 16TH ST. S.W.

AT THE INTERSECTION OF MAIN AVENUE WEST, EAST OF 23RD ST. N.W. AND TREMONT AVENUE S.W.

THE REMOVAL OF CHIP & SEAL AND ASPHALT ON MAIN AVE IS NOT A SEPARATE PAY ITEM, BUT IS TO BE INCLUDED IN THE EXCAVATION ITEM.

WHEN CONFLICT ARISES OVER THE INTERPRETATION OF NOTES AND DETAILS, THE NOTES AND DETAILS IN THE DRAWINGS TAKE PREFERENCE OVER THE GENERAL PROVISIONS AND SPECIFICATIONS THAT APPEAR IN THE CONTRACT.

CATCH BASIN

ALL CATCH BASINS AND MANHOLE CASTINGS THAT ARE REMOVED ARE TO REMAIN THE PROPERTY OF THE CITY OF MASSILLON

CENTERLINE CONTROL

THE CITY OF MASSILLON WILL FURNISH CENTERLINE CONTROL AND CONSTRUCTION STAKES STAKES WILL BE SET ONE TIME ONLY. STAKES THAT ARE DISTURBED OR DESTROYED WILL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE

OVERTIME THE CONTRACTOR WILL PAY THE CITY INSPECTORS OVERTIME WAGES FOR ALL WORK THAT IS DONE ON SATURDAY, SUNDAY OR LEGAL HOLIDAYS. THE OVERTIME WAGES WILL BE PAID DIRECTLY TO THE CITY OF MASSILLON

ITEM 402 ASPHALT CONCRETE 1 1/4" THICK

STATION TO STATION
0+15.50 TO 8+10.00
794.50 X 36 X .104166 = 110.346 CU. YDS
27

TREMONT INTERSECTION

TRIANGLE AREA BY PLANIMETER - 246

246 X .104166 = .949 CU. YDS.
27

MAIN AVE

TRIANGULAR AREA BY PLANIMETER - 1600 SQ. FT.

1600 X .104166 = 6.17 CU. YDS
27

9+05.00 TO 10+91.00 - 32' WIDE

186 X 0.104166 X 32 = 32 X 40 X .104166 = 18.02 CU. YDS
27

FEATHERING AT STATIONS

9+05.00 TO 10+91.00 - 32' WIDE
16' X 11' = 804 SQ. FT.
1152 X .104166 = 4.44 YDS TOTAL = 140 - CU. YDS
27

ITEM 404 ASPHALT CONCRETE 1 1/4" THICK

0+15.50 TO 8+10.00
794.50 X 36 X .104166 = 110.346 CU. YDS
27

TREMONT INTERSECTION

TRIANGLES - AREA BY PLANIMETER - 246 SQ. FT.

246 X .104166 = .949 CU. YDS.
27

MAIN AVE

TRIANGULAR AREA BY PLANIMETER - 1600 SQ. FT.

1600 X .104166 = 6.17 CU. YDS
27

9+05.00 TO 10+91.00 - 32' WIDE

186 X 0.104166 X 32 = 32 X 40 X .104166 = 18.02 CU. YDS.
27

FEATHERING AT STATIONS

9+05.00 TO 10+91.00
16' X 11' = 804 SQ. FT.
1152 X .104166 = 4.44 CU. YDS. TOTAL 140 - CU. YDS
27

ITEM 301 ASPHALT CONCRETE - 5 1/2" THICK

0+15.50 TO 8+10.00
794.50 X 36 X .45833 = 405.52 CU. YDS
27

TREMONT INTERSECTION

TRIANGULAR AREA BY PLANIMETER - 246 SQ. FT.

1600 X .45833 = 4.17 CU. YDS
27

MAIN AVE

TRIANGULAR AREA BY PLANIMETER - 1600 SQ. FT.

1600 X .45833 = 27.16 CU. YDS
27

9+05 TO 10+91.00 - 32' WIDE

186 X 32 X .45833 = 32 X 40 X .45833 = 79.31 CU. YDS.
27 TOTAL = 537 CU. YDS

ITEM 310-SUBASE "GRADING" B" 6" THICK

0+15.50 TO 8+10.00
794.50 X 41 X 0.50 = 603.23 CU. YDS
27

TREMONT INTERSECTION

TRIANGULAR AREA BY PLANIMETER - 246 SQ. FT.

246 X .50 = 4.55 CU. YDS
27

MAIN AVE

TRIANGULAR AREA BY PLANIMETER - 1600 SQ. FT.

1600 X .50 = 29.63 CU. YDS.
27

STATION- 9+05 TO 10+91.00 - 32' WIDE

186 X 0.50 X 32 = (32 X 40 X .50) = 85.03 CU. YDS
27 TOTAL = 723.00 CU. YDS

ITEM 408-BITUMENOUS PRIME COAT (702.09 RT2 OR RT3)

(APPLIED AT RATE OF 0.40 G PER SQ YD)

794.50 X 36 = 3178 SQ. YDS
9
246 = 27.33 SQ. YDS
9
1600 = 177.77 SQ. YDS
9
(5952) - (1280) = 519.11 SQ. YDS 39.92
9 3902.10 SQ. YDS 40
1560.80 = 1561 GAL.

609 COMBINATION CURB & GUTTER, (AS PER PLAN)

WEST SIDE OF 17TH STREET

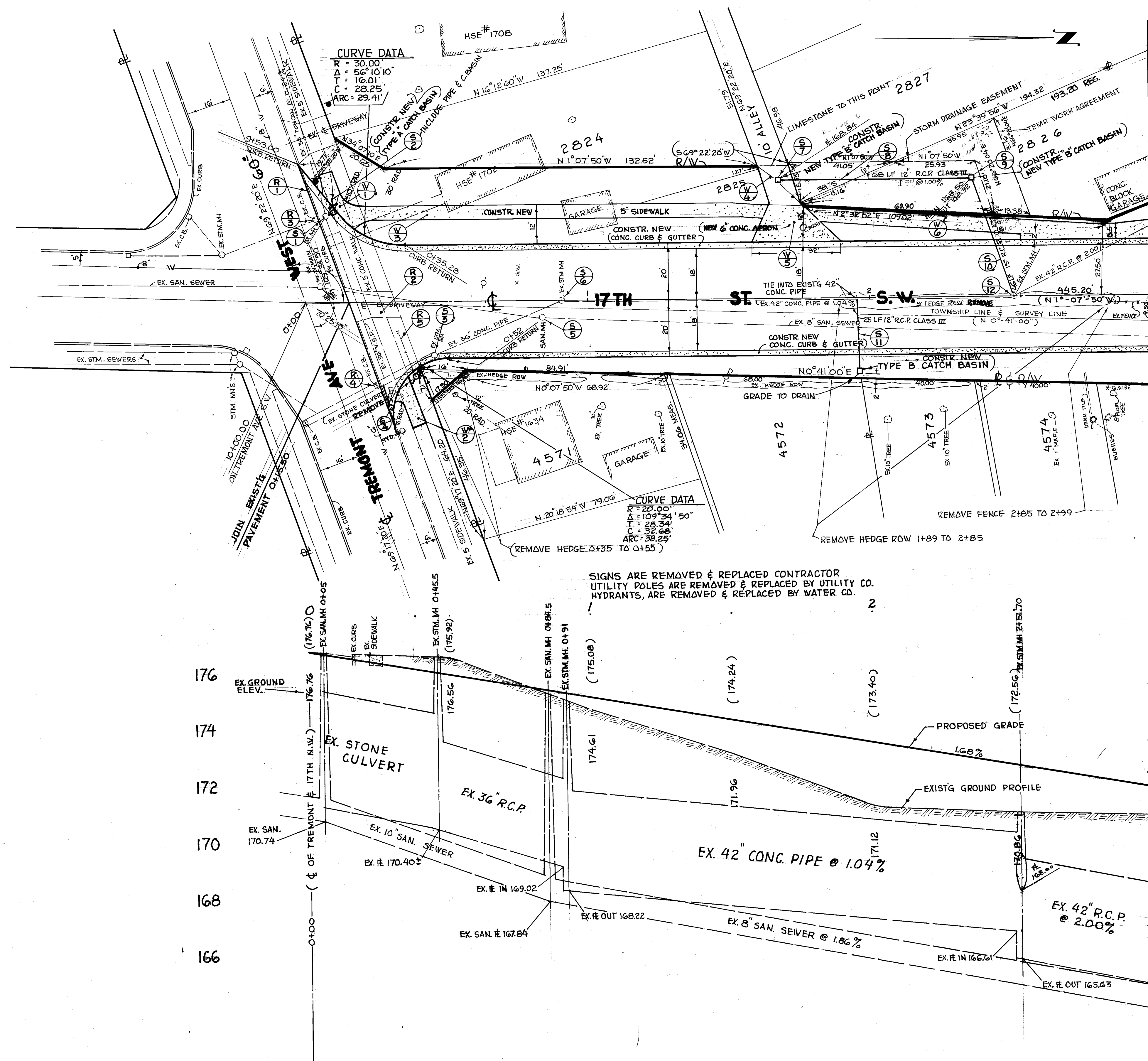
19.71 - ST. TANG. ON MAIN ----- 19.71
29.41 - N.W. COR. 17TH & TREMONT ----- 29.41
0+35.28 TO 3+62.72 ----- 327.44
54.29 - S.W. COR. 17TH & MAIN ----- 54.29
24.44 - ST. TANG. S.W. COR. 17TH & MAIN ----- 20.44
66.57 - ST. TANG. N.W. COR. 17TH & MAIN ----- 66.57
30.99 - N.W. COR. 17TH & MAIN ----- 30.99
-4+75.38 TO 6+34.66 ----- 153.28
-7+36.33 TO 7+41.33 ----- 5.00
713.13 - 713.13 LIN. FT.

EAST SIDE OF 17TH STREET - 609 COMBINATION CURB & GUTTER (AS PER PLAN)

38.25 - N.E. COR. TREMONT & 17TH ----- 38.25
0+52 TO 4+14.60 ----- 362.60
30.82 - S.E. COR. MAIN & 17TH ----- 30.82
62.56 - ST. TANG. S.E. COR. MAIN & 17TH ----- 62.56
18.22 - ST. TANG. N.E. COR. ----- 18.22 * 701.74
52.65 - N.E. COR. ----- 52.65 846.34
5+27.76 TO 8+09.00 ----- 281.24
846.34 - 1540.08 - LIN. FT.

SOD CAL'D BY PLANIMETER

SHEET - 5 - 2873 = 703.67 SQ. YDS
SHEET - 6 - 1120 = 1302.22 SQ.



REMOVALS

SIN NO	STATION		SIDE	202	202	202	202
	FROM	TO		CURE REMOVAL LIN FEET	REMOVAL OF EXISTS & ASPHALT 50 FT.	REMOVE EXIST C. BASIN EACH	REMOVE EXISTS & FENCE EACH
R-1	0+00	0+40	LEFT & RIGHT	127			
R-2	0+00	0+46	LEFT & RIGHT		530		
R-3		0+04	LEFT			1	
R-4		0+25	RIGHT			1	
R-5	0+33	0+39	LEFT				1
	TOTAL			127	530	2	1

SEIVERS

		STATION		SIDE	604 MANHOLE RECONSTRUCT TO GRADE EACH	604 TYPE "A" CATCH BASIN	604 TYPE "B" CATCH BASIN EACH	603 12" R.O.P. CLASS III LIN. FT.	603 15" R.O.P. CLASS III LIN. FT.
		FROM	TO						
S-1	0+8			LEFT	1				
S-2	0+10			LEFT		1		5	
S-3	0+47			RIGHT	1				
S-4	0+46			RIGHT		1		7	
S-5	0+84			RIGHT	1				
S-6	0+90			℄	1				
S-7	1+70			LEFT			1		
S-8	1+70	2+33		LEFT				68	
S-9	2+34			LEFT			1		
S-10	2+34	2+51							46
S-11	1+96			RIGHT			1	25	
S-12	2+51			℄	1				
TOTAL					5	2	3	105	46

WALKS - CONCRETE DRIVE, LIMESTONE

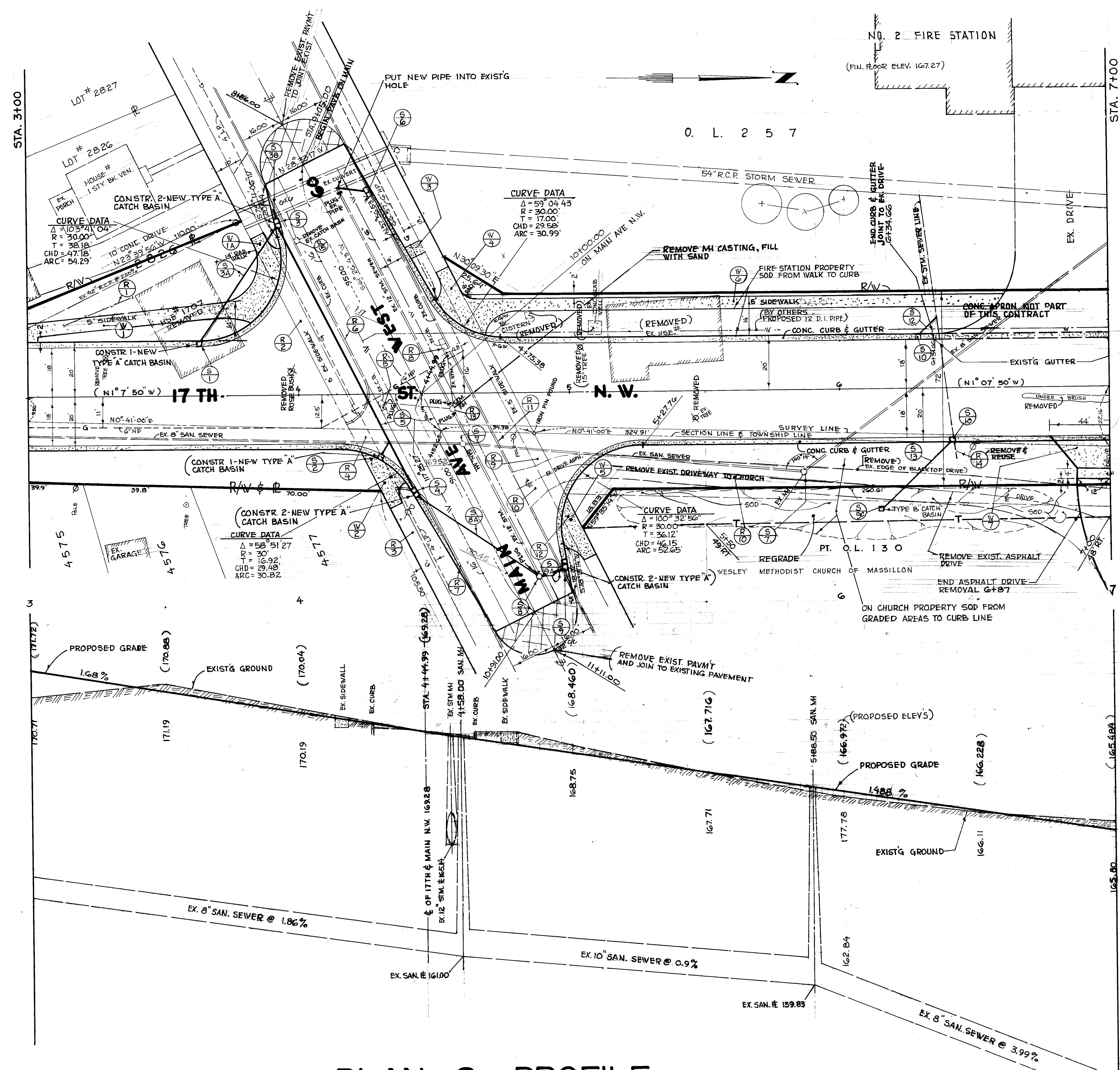
	STATION		SIDE	411 LIME- STONE (4") CURBS	608 (4") WALKS SQ. FT PROJECT	608 DRIVE (6") SQ. FT	708 (4") WALKS SQ. FT CITY
	FROM	TO					
W-1	Δ+05	+Δ+8	LEFT		90		
W-2	Δ+39	+Δ+7	RIGHT		50		
W-3	Δ+14	+Δ+71	LEFT				785
W-4	+Δ+69	+Δ+76	LEFT	2			
W-5	+Δ+57	+Δ+90	LEFT			328	
W-6	+Δ+74	+Δ+88					610
TOTAL				2	140	328	1395

(BENCH MARK TOP OF HYD @ TREMONT & 17TH ST. S.W. 178.99)
R.R.S. IN O.P.S. CO. POLE # 2420 B-13 (173.24)
(FIELD BOOK 232, PAGE 39)

CITY OF MASSILLON, OHIO

17TH ST. S.W. STREET IMPROVEMENT
& N.W.

DR BY RONNIE MCPHERSON	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
CITY ENGINEER - ROBERT WAGONER	FIELD BOOK 232 PAGES 31, 40
SCALE 1" = 20' HORIZ. & 1" = 2' VERT.	DATE



PLAN & PROFILE

REMOVALS

STATION	FROM	TO	SIDE	202 CURB REMOVAL LIN. FT.	202 WALK REMOVAL SQ. FT.	202 REMOVE EXISTING CATCH BASIN EACH	202 REMOVE EXISTING FENCE EACH	202 REMOVE EXISTING CONC. DRIVE SQ. FT.	REMOVE EXIST. ASPH. DRIVE SQ. FT.	REMOVE EX. M. CASTING & OVER FILL WITH SAND PLUG EXISTING PIPES 202	REMOVE EXIST. PIPE 202
R-1	3+14	3+40	LEFT								
R-2	3+83	4+18	LEFT		390						
R-3	4+30	4+38	RIGHT		35						
R-4	4+18	4+45	RIGHT					390			
R-5	4+30	4+30	RIGHT			3					
R-6	3+89	4+18	LEFT	103							
R-7	4+36	4+64	RIGHT	60							
R-8	4+53	4+53	LEFT			3					
R-9	4+19	4+88	RIGHT		400						
R-10	4+78	6+87	RIGHT						2408		
R-11	4+85	5+40	RIGHT	175							
R-12	4+96	5+10	RIGHT		150						
R-13	4+57	6+5	LEFT								
R-14	6+41	6+41	RIGHT								EACH
R-15	4+00	4+00	LEFT								
TOTALS				338	975	7		390	2408		

SEWERS

STATION	FROM	TO	SIDE	604 MANHOLES RECONSTRUCT TO GRADE EACH	604 TYPE "A" CATCH BASIN SINGLE DOUBLE	603 12" R.C.P. CLASS III LIN. FT.	603 15" R.C.P. CLASS III LIN. FT.	603 18" R.C.P. CLASS III LIN. FT.	603 21" R.C.P. CLASS III LIN. FT.	604 TYPE "B" CATCH BASIN
S-1	3+63	3+63	LEFT		1					
S-2	4+31	4+31	RIGHT		1					
S-3	3+93	3+93	LEFT							
S-3A	3+63	3+93	LEFT					50'		
S-4	4+42	4+42	RIGHT							
S-5	4+42	4+95	RIGHT						118'	
S-6	9+25	9+25	LEFT		1	12'				
S-7	4+80	5+81	RIGHT	2						
S-8	4+28	4+28	RIGHT	1						
S-8A	4+42	4+88	RIGHT					54'		
S-9	5+01	5+01	RIGHT							
S-9A	4+88	5+01	RIGHT				10'			
S-10	3+93	3+94	LEFT			6			5	
S-10A	6+13	6+41	LEFT & RIGHT	2						
S-11	6+13	6+13	RIGHT							1
S-12	6+13	6+38	LEFT			12				
S-13	6+41	6+40	RIGHT			30				
TOTALS				5	4	73	60	172	5	1

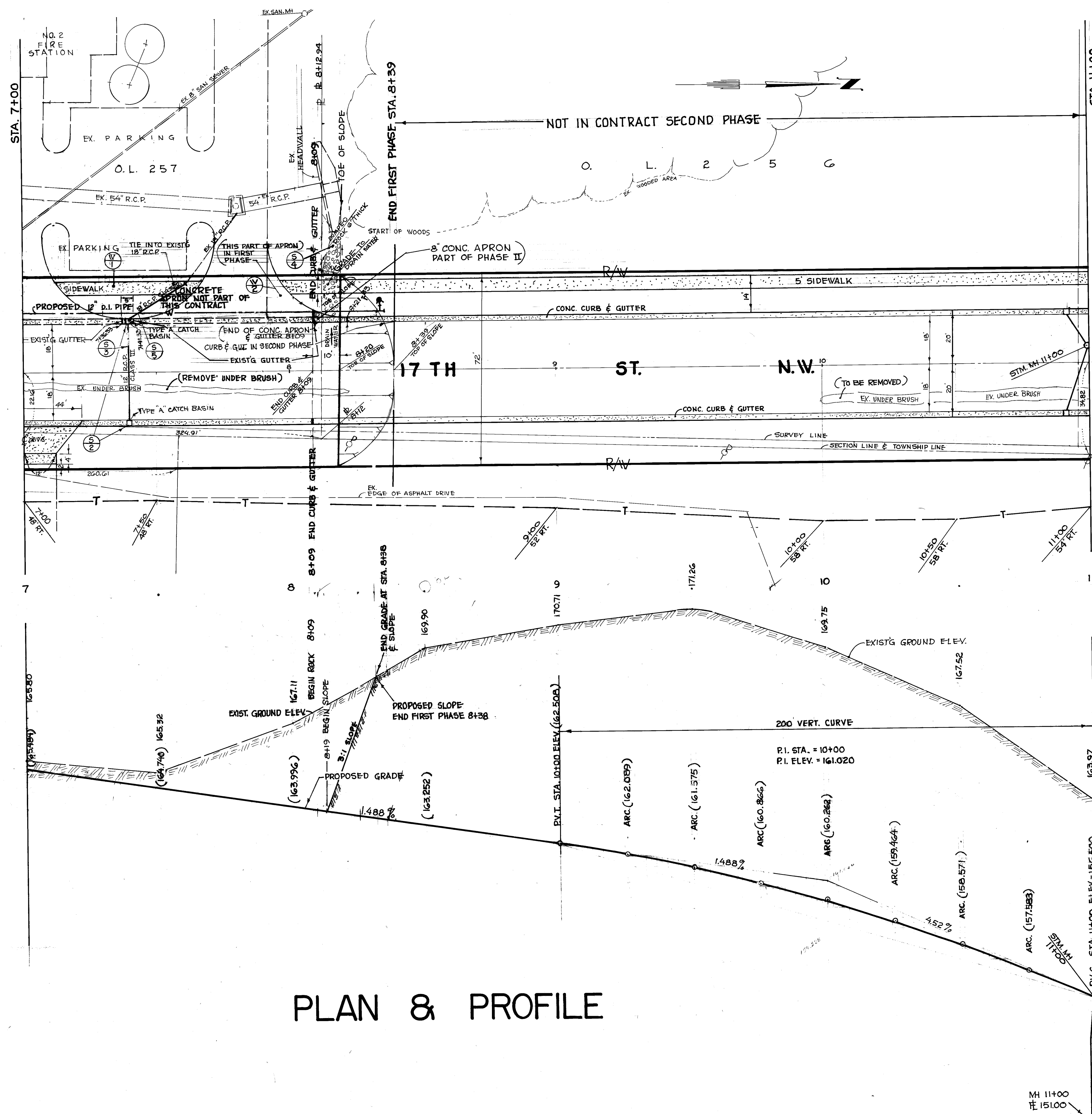
WALKS, CONCRETE DRIVE

STATION	FROM	TO	SIDE	608 4" WALKS PROJECT SQ. FT.	608 4" WALKS CITY SQ. FT.	608 6" CONC. DRIVE SQ. FT.
W-1	3+60	3+94	LEFT		375	
W-2	4+23	4+38	RIGHT	125		
W-3	4+40	4+47	LEFT		30	
W-4	4+51	4+69	LEFT	175	175	
W-5	4+99	5+19	RIGHT	175	175	
W-6	4+63	6+63	LEFT		1075	
W-7	6+78	7+22	RIGHT			464
W-1A	3+84	3+94	LEFT	395		
TOTALS				870	1830	464

BENCH MARK

R.R.S. IN O.P.S. CO. POLE F 837 NORTH OF MAIN (171.04)
R.R.S. IN O.P.S. CO. POLE NORTH SIDE CHURCH PARKING LOT (173.90)
(FIELD BOOK 232 PAGE 39)

CITY OF MASSILLON, OHIO	
17TH ST. S.W. STREET IMPROVEMENT & N.W.	
DR BY RONNIE MCHESTER	DEPT. OF PUBLIC SERVICE
CITY ENGINEER - ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1"=20' HORIZ & 1"=2' VERT.	FIELD BOOK 232 PAGES 31, 46
DATE	



SEWERS

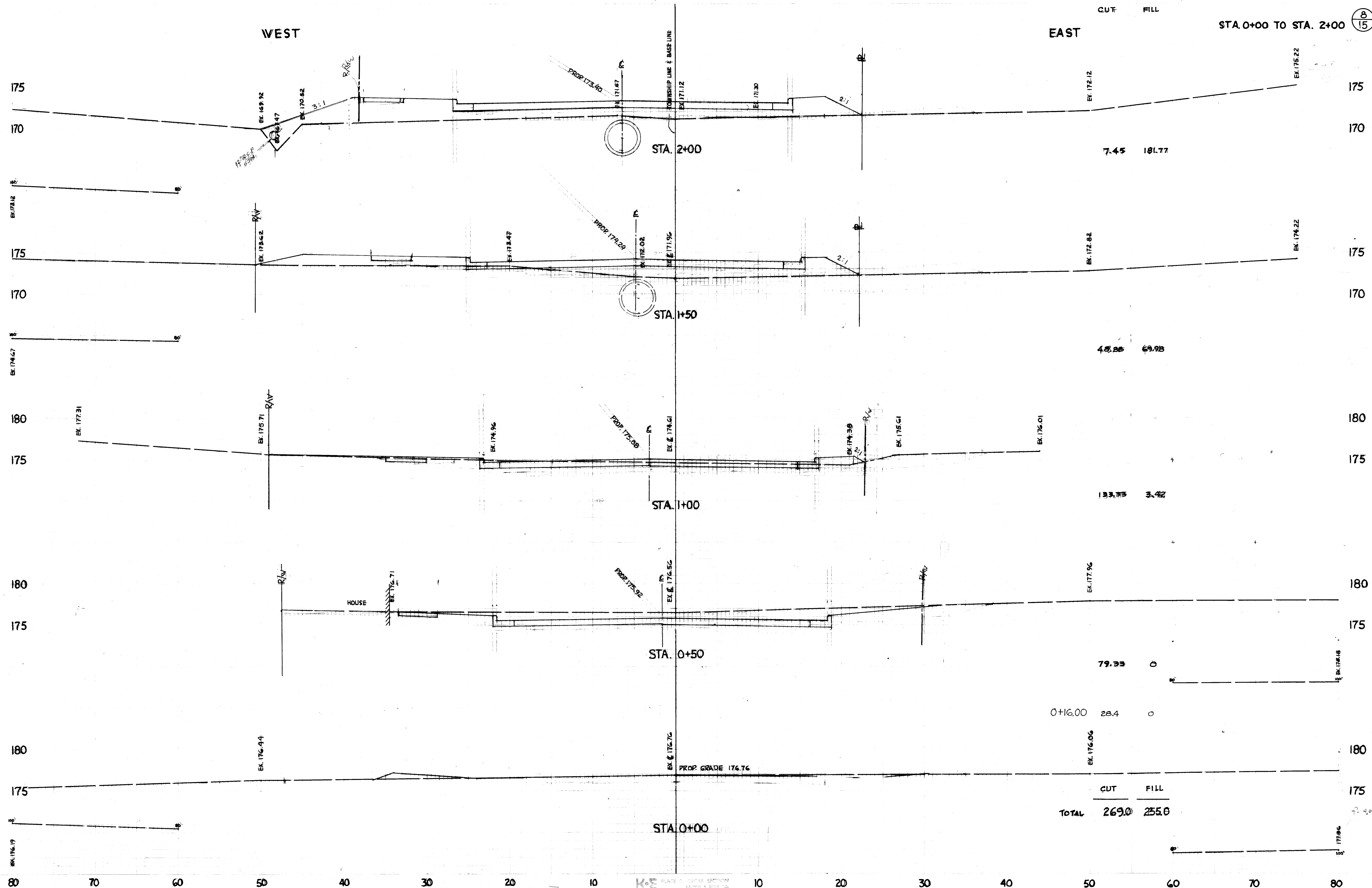
STATION	FROM	TO	SIDE	G04 TYPE "A" C.BASIN (SINGLE) EACH	G03 12" R.C.P. CLASS III LIN. FT.	G01 DUMPED ROCK 6" THICK C.Y.S	G04 STORM MH & CASTING VERT. FT.	G03 18" R.C.P. CLASS III LIN. FT.
S-2	7+40	7+40	RIGHT & LEFT	2				
S-3	7+40	7+40	RIGHT & LEFT		37			
S-4	8+09	8+09	LEFT			8		
S-5								26
TOTAL				2	37	8		26

WALKS

STATION	FROM	TO	G02 8" CONC. APRON SQ. FT.	G02 4" WALKS (CITY) SQ. FT.
W-1	7+12	7+68		280
W-2	7+950	8+09	165	
TOTAL			165	280

BENCH MARK
 R.R.S. IN O.P.S. CO. POLE NORTH-SIDE CHURCH PARKING LOT (173.90)
 R.R.S. IN O.P.S. CO. POLE #2421 C-4 32 (159.60)
 (FIELD BOOK 232, PAGE 39)

CITY OF MASSILLON, OHIO	
17TH ST. S.W. STREET IMPROVEMENT & N.W.	
D.R. BY RONNIE MCPHERSON	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
CITY ENGINEER - ROBERT WAGONER	FIELD BOOK 232 PAGES 31, 46
SCALE 1"=20' HORIZ. & 1"=2' VERT.	DATE



WEST

EAST

STA. 4+18.40 BACK OF WALK
NOTE: X-SECT. PARALLEL TO MAIN AVE

STA. 4+00

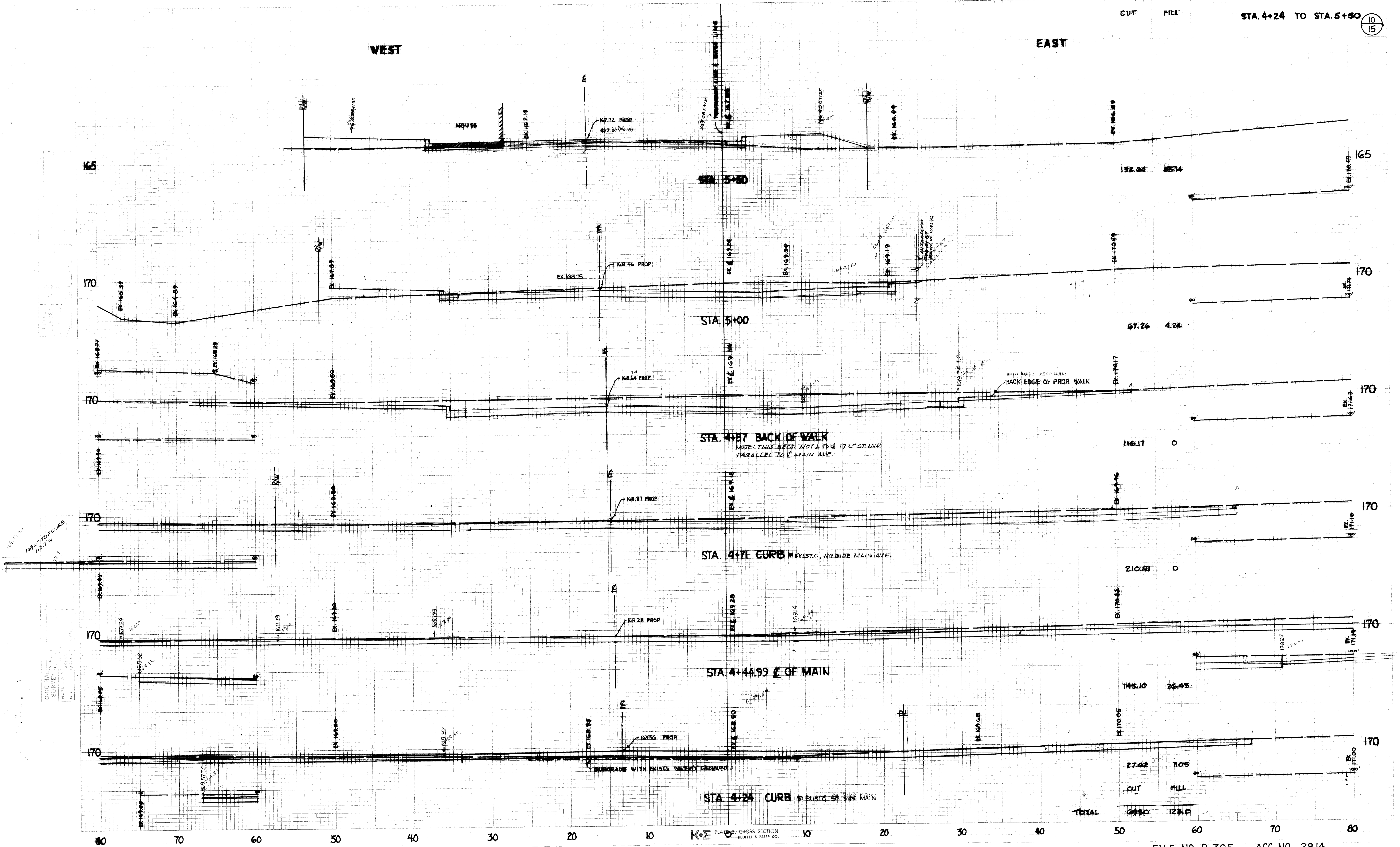
STA. 3+50

STA. 3+00

STA. 2+50

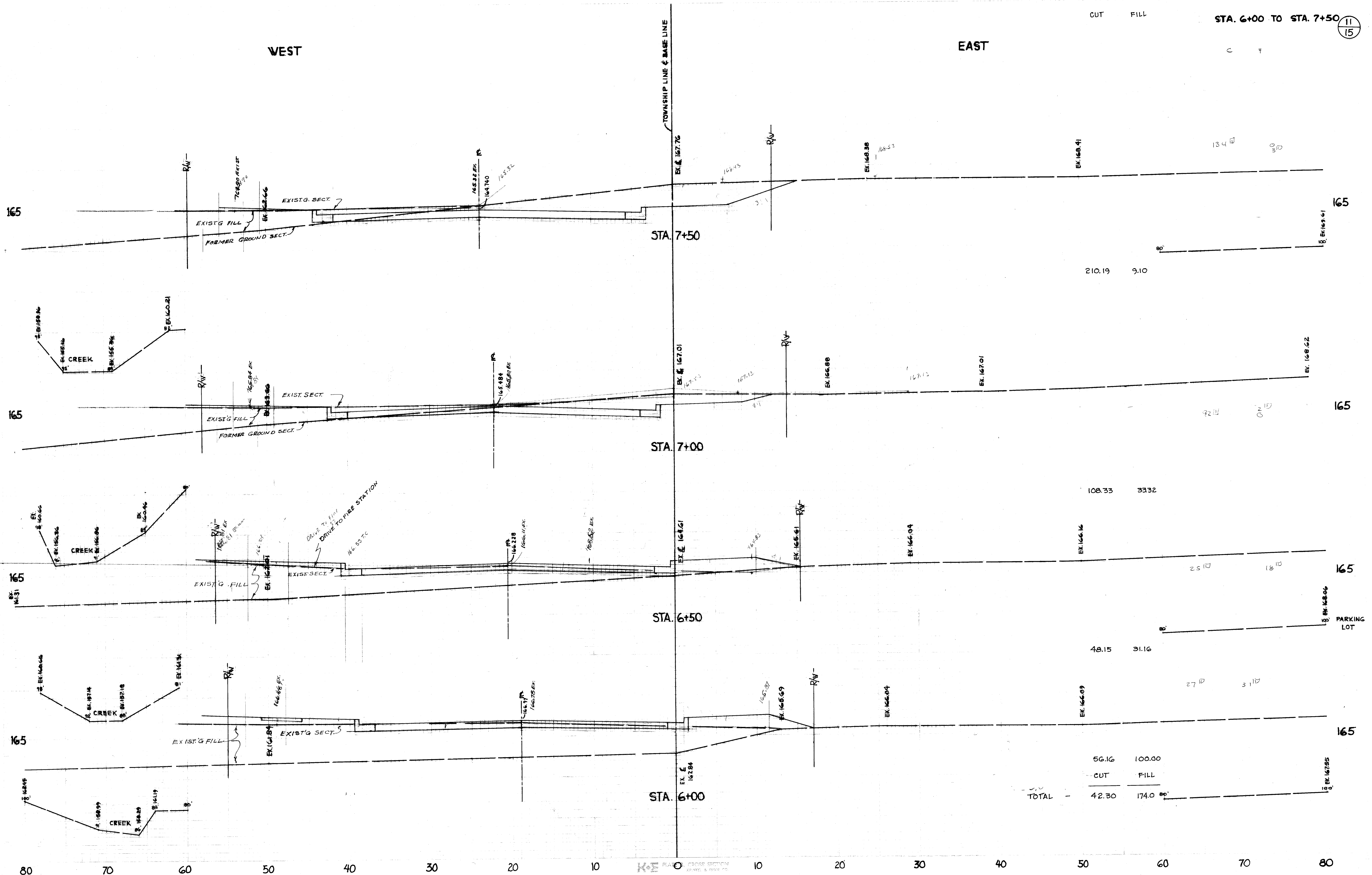
HOUSE

	3.62	162.55
CUT		
FILL		
TOTAL	340.00	264



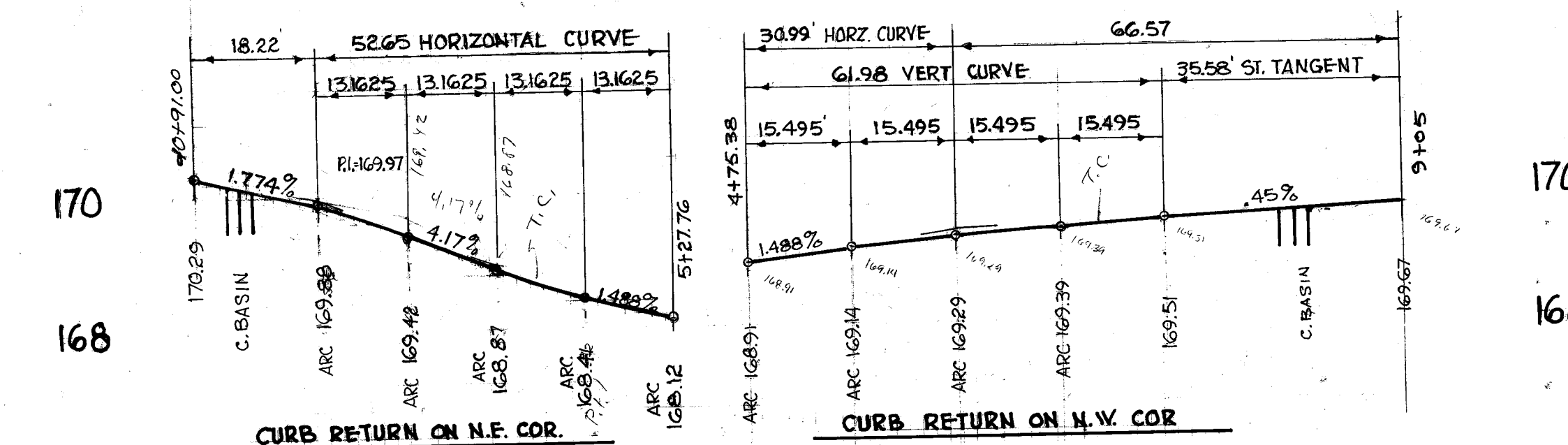
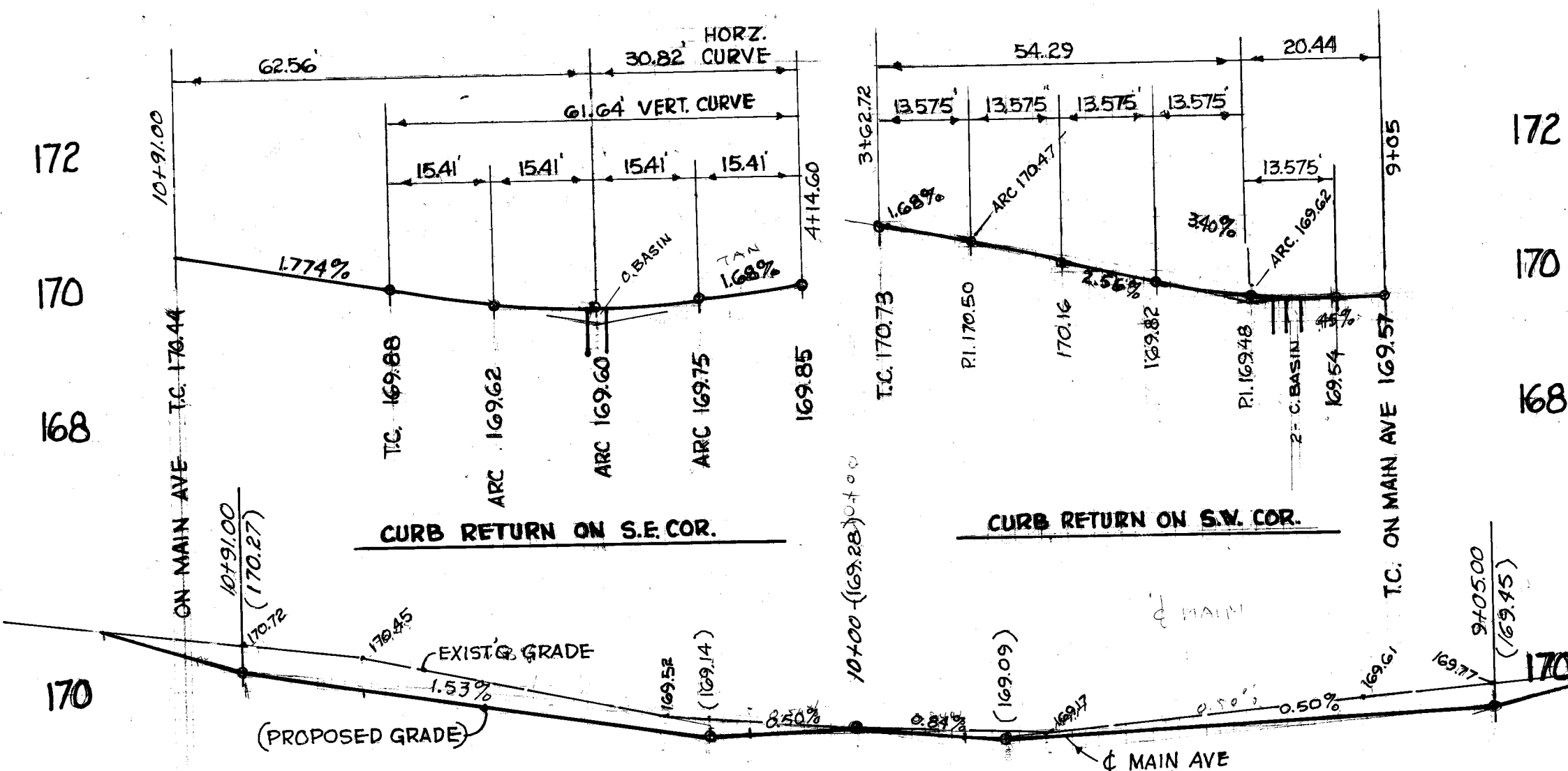
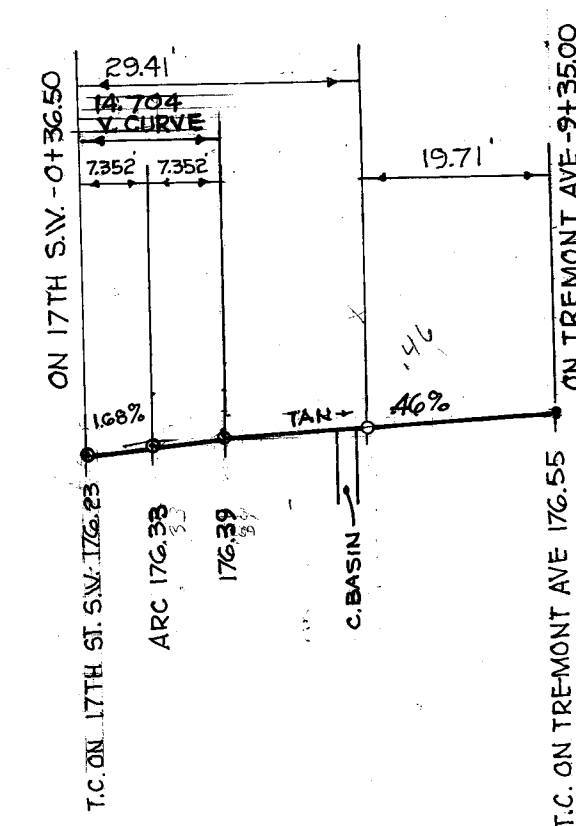
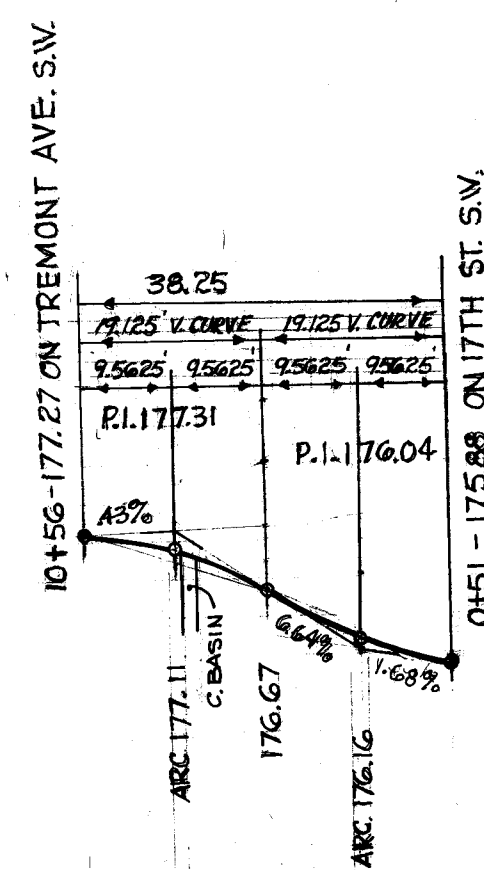
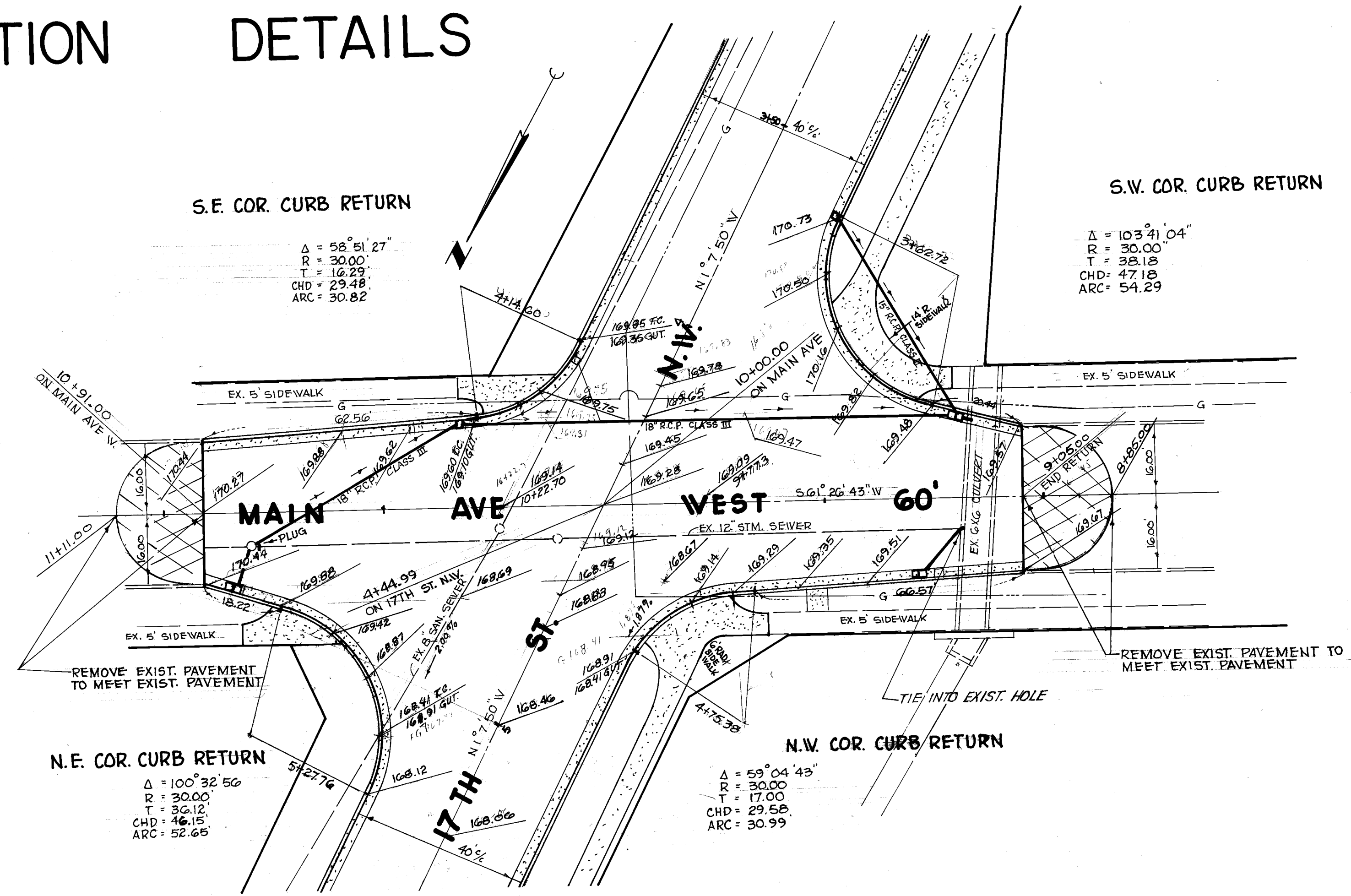
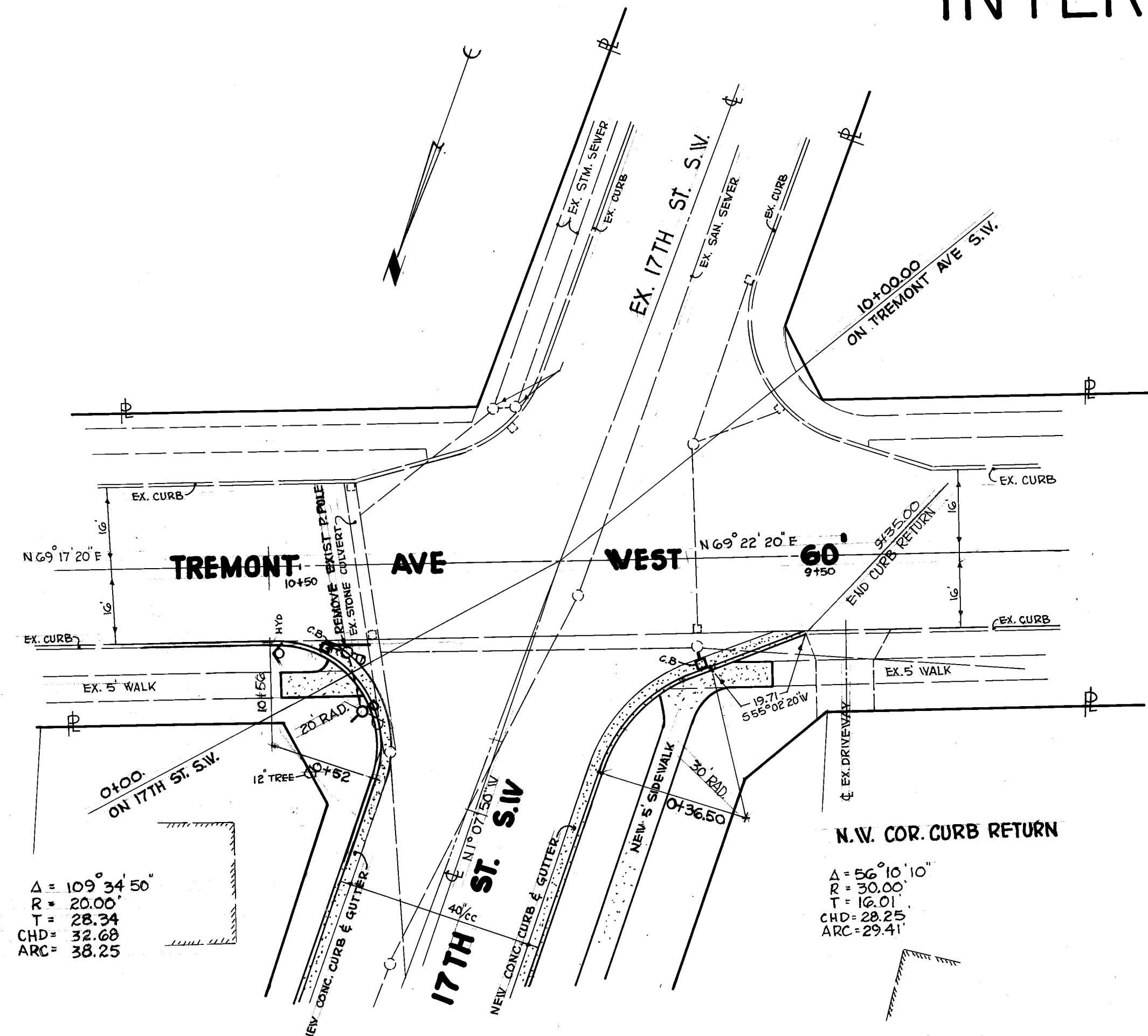
WEST

EAST

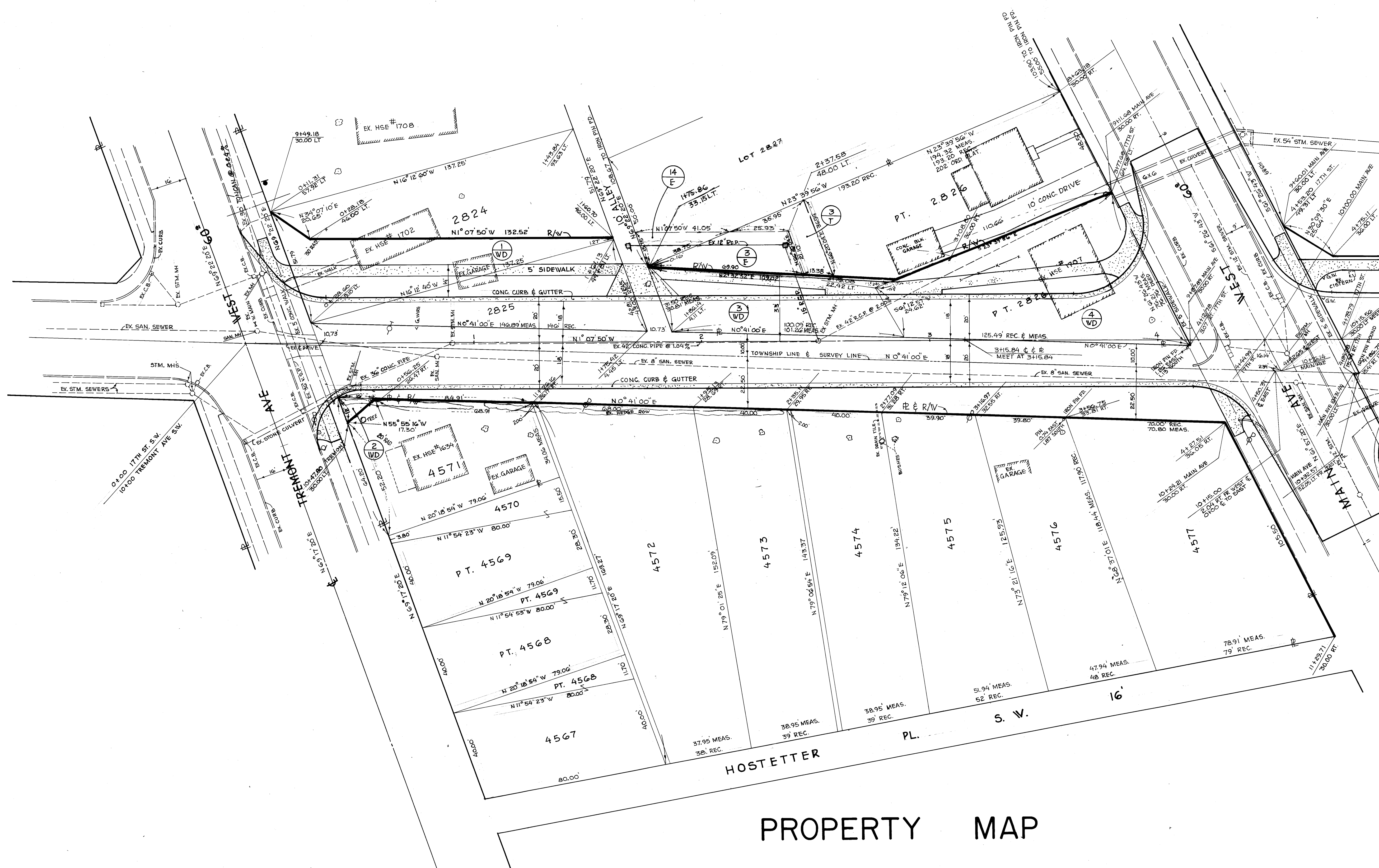


	56.16	100.00
CUT	42.30	174.0
FILL		
TOTAL		

INTERSECTION DETAILS

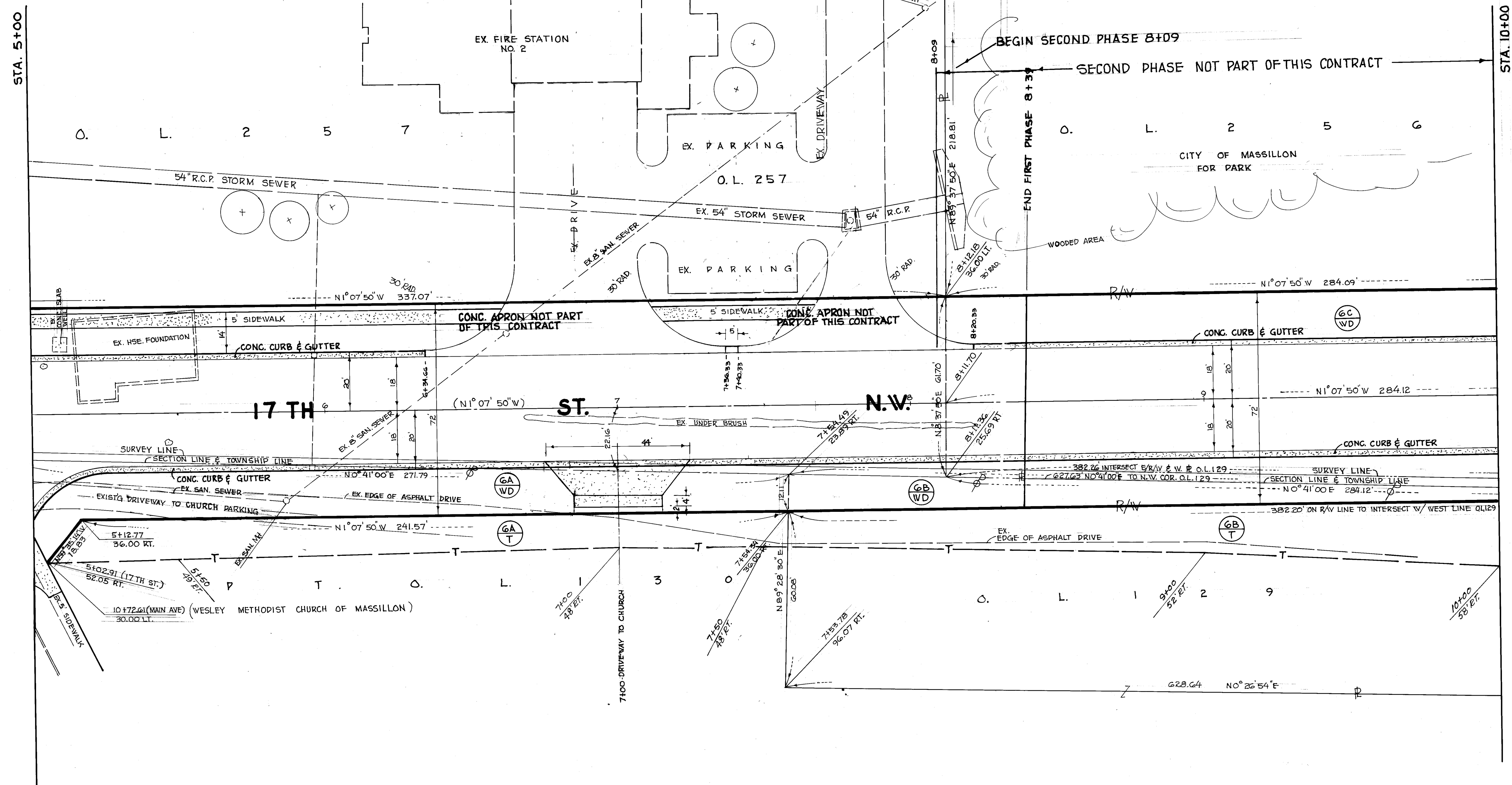


CITY OF MASSILLON, OHIO	
CURB RETURNS ON TREMONT & MAIN AVE	
DR BY RON MCPHERSON	DEPT. OF PUBLIC SERVICE
CITY ENGINEER - ROBERT WAGONER	ENGINEERING DIVISION
SCALE 1"=20' HORIZ & 1"=2' VERT. DATE 6/13/79	



PROPERTY MAP

CITY OF MASSILLON, OHIO			
17TH ST. S.W. PROPERTY MAP			
DRAWN BY	DATE	REVISION	DESCRIPTION
CHECKED BY			
DR. BY RONNIE MCPHERSON		DEPT. OF PUBLIC SERVICE	
CITY ENGINEER-ROBERT WAGONER		ENGINEERING DIVISION	
SCALE 1"=20' HORZ. & 1"=2' VERT.		DATE	



PROPERTY MAP

DRAWN BY	DATE	REVISION	DESCRIPTION
CHECKED BY			

CITY OF MASSILLON, OHIO	
17TH ST. S.W. PROPERTY MAP	
DR BY RONNIE MCNERSON	DEPT. OF PUBLIC SERVICE ENGINEERING DIVISION
CITY ENGINEER-ROBERT WAGONER	
SCALE 1"=20' HORIZ. & 1"=2' VERT.	DATE