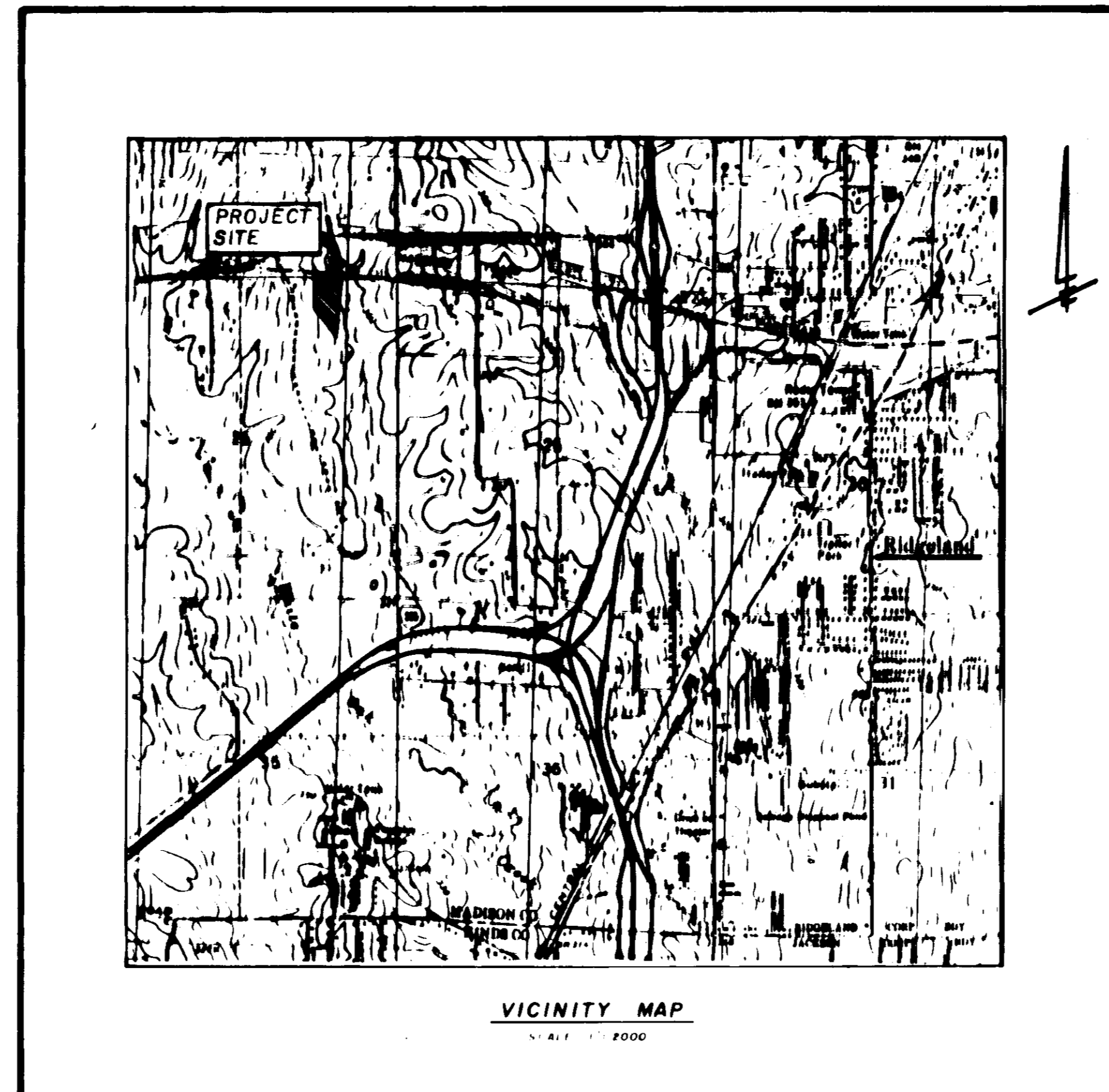


CONSTRUCTION PLANS  
THE VILLAGE OF ARBOR RIDGE

SITUATED IN E 1/2 OF SECTION 26, AND SE 1/4 OF SECTION 23, T 7 N - R 1 E,  
MADISON COUNTY, MISSISSIPPI.



INDEX OF DRAWINGS

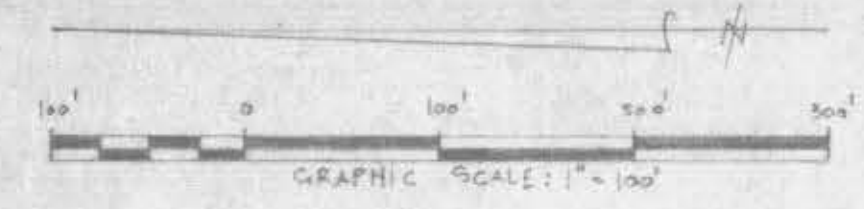
<u>SHT. NO.</u>	<u>DESCRIPTION</u>
1.	COVER SHEET
2.	UTILITY SITE PLAN
3.	DRAINAGE SITE PLAN
4.	PLAN-PROFILE ARBOR RIDGE ROAD/HORSE CREEK CATCHMENT
5.	PLAN-PROFILE HAWTHORNE RIDGE/SOUTH CREEK CATCHMENT
6-7.	PLAN-PROFILE OUTFALL SEWER
8.	STANDARD SEWER DETAILS
9.	STANDARD WATER DETAILS

DEVELOPED BY : SMCDC INC. GENERAL PARTNER  
5, LAKELAND CIRCLE  
JACKSON, MISSISSIPPI 39216.

AUGUST, 1988

DESIGNED BY : CENTRAL MISSISSIPPI ENGINEERING, INC.  
5, LAKELAND CIRCLE  
JACKSON, MISSISSIPPI 39216

PWP 80408

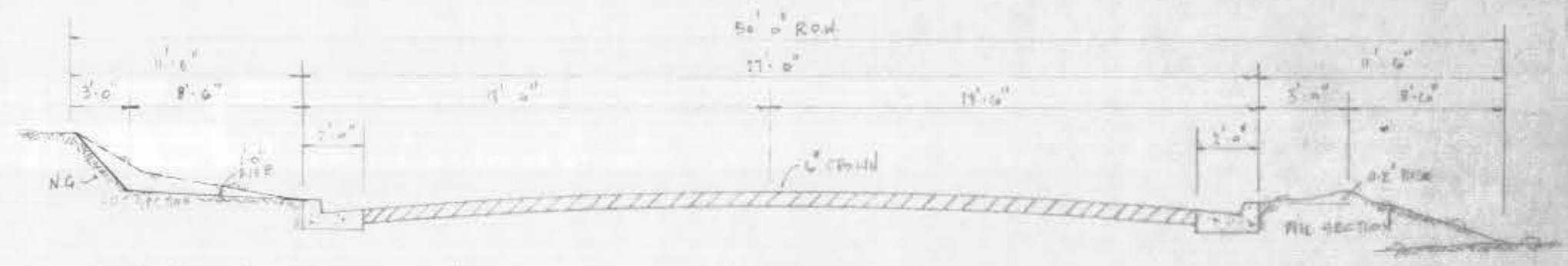


**GENERAL NOTES:**

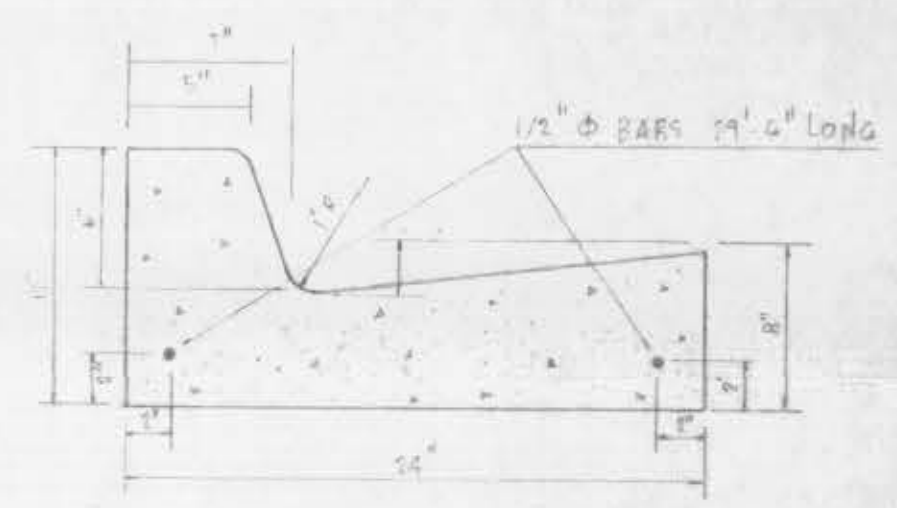
- 1 CURB INLETS SHALL BE 5 FT STANDARD
- 2 CONSTRUCTION OF STREET SHALL BE IN ACCORDANCE WITH MADISON CO. REGULATIONS AND CONSTRUCTION OF SAN SEWER AND WATER MAINS SHALL BE IN ACCORDANCE WITH CITY OF RIDGELAND REGULATIONS



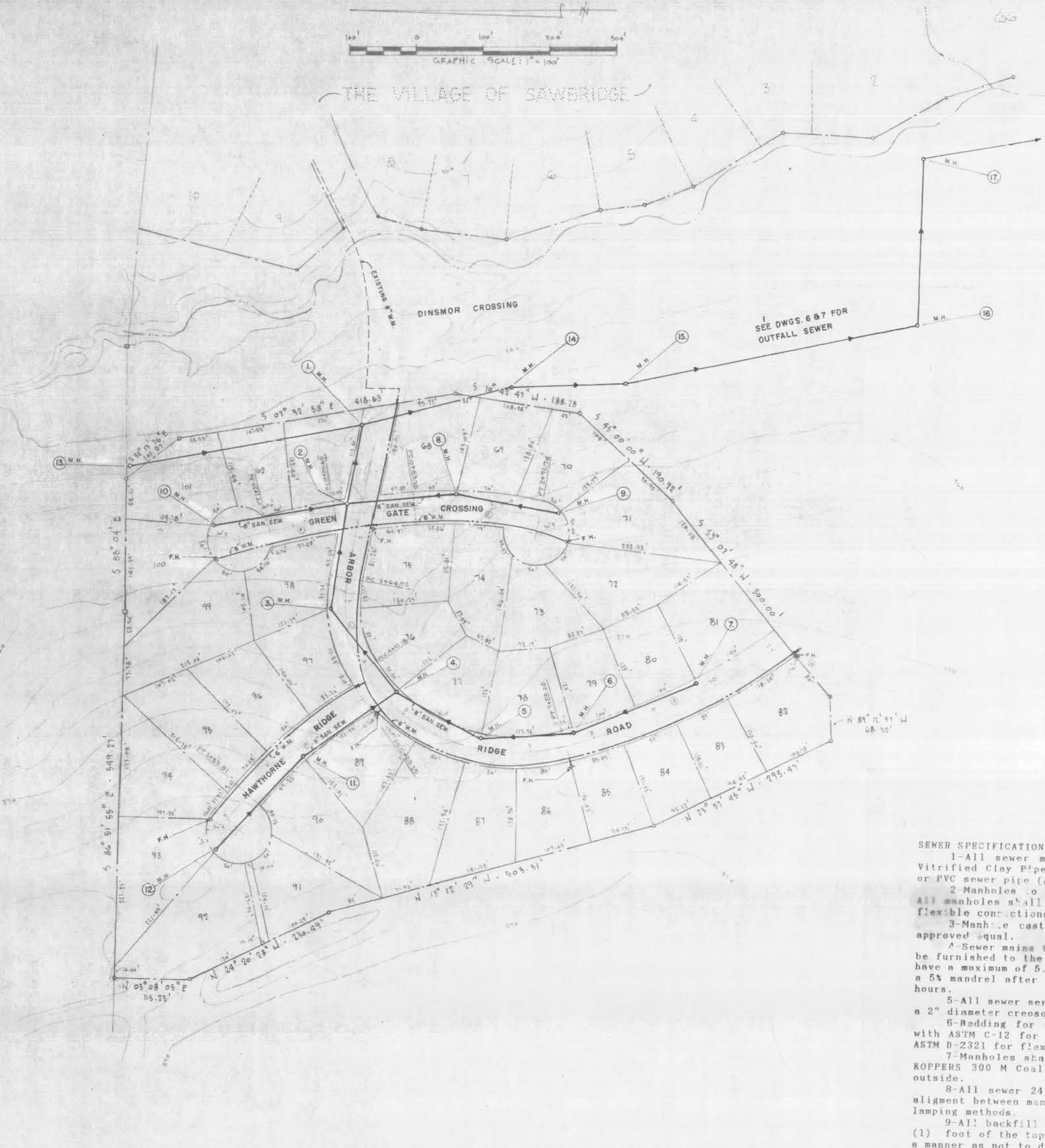
T.B.M. NO. 1-X; ELEV. = 373.03  
 NAIL IN EAST SIDE OF 12" OAK  
 APP. 130' RIGHT OF STA. 8+00  
 ARBOR RIDGE ROAD



TYPICAL STREET SECTION  
 1/4" SCALE



TYPICAL CURB DETAIL  
 1/4" SCALE



**Curve Data**

A	B	C
Δ = 8° 41' 33"	Δ = 7° 32' 43"	Δ = 44° 55' 44"
D = 514.01'	D = 21.0523'	D = 38.5807'
T = 184.40'	T = 200.00'	T = 76.50'
L = 263.60'	L = 248.00'	L = 145.26'
R = 1114.671'	R = 273.5391'	R = 187.925'
P	Q	R
Δ = 11° 54' 42"	Δ = 17° 31' 42"	Δ = 04° 59' 25"
D = 71.8381'	D = 9.2562'	D = 4.9266'
T = 115.50'	T = 95.00'	T = 50.00'
L = 228.55'	L = 188.64'	L = 99.74'
R = 730.990'	R = 221.000'	R = 1162.916'
S	T	U
Δ = 70° 00' 00"	Δ = 6° 08' 05"	Δ = 60° 00' 00"
D = 6.6865'	D = 6.6865'	D = 6.6865'
T = 600.00'	T = 600.00'	T = 600.00'
L = 1046.89'	L = 1046.89'	L = 1046.89'
R = 850.888'	R = 850.888'	R = 850.888'

**SEWER SPECIFICATIONS**

- 1-All sewer main and services shall be Extra Strength Vitrified Clay Pipe (ASTM C-700), ABS sewer pipe (ASTM D-280), or PVC sewer pipe (ASTM D 3034) SDR 35.
- 2-Manholes to be precast concrete conforming to ASTM C-478. All manholes shall be waterproofed and shall have watertight flexible connections at inlets and outlets.
- 3-Manhole castings to be Harper No. 1, MSPE Standard, or approved equal.
- 4-Sewer mains to be tested by air per ASTM C-828, results to be furnished to the ENGINEER and the UTILITY. PVC sewer pipe to have a maximum of 5.0% deflection as determined by the pulling of a 5X mandrel after the pipe has been backfilled for at least 24 hours.
- 5-All sewer services to be marked at the property line with a 2" diameter crossite post or other acceptable marker.
- 6- bedding for sewer pipe shall be Class "C" in accordance with ASTM C-12 for rigid pipe and Class III in accordance with ASTM D-2321 for flexible pipe.
- 7-Manholes shall be waterproofed with an application of KOPPERS 300 M Coal Tar Epoxy or approved equal, inside and outside.
- 8-All sewer 24 inches or less will be laid with straight alignment between manholes and will be checked by either laser or lamping methods.
- 9-All backfill will be of suitable material, hand tamped to (1) foot of the top of the pipe, and otherwise placed in such a manner as not to disturb the alignment of the pipe.
- 10-Sewer and water mains will have a minimum separation of ten (10) feet horizontally and 18 inches vertically with relation to each other.
- 11-Leakage tests shall include appropriate water or low pressure air testing. The leakage outward or inward (exfiltration or infiltration) shall not exceed 200 gallons per inch of pipe diameter per mile per day (0.19 m/cm of pipe dia./km/day) for any section of the system. An exfiltration or infiltration test shall be performed with a minimum positive head of 2 feet (0.61 m). The air test, if used, shall, as a minimum conform to the test procedure described in ASTM C-828-76T, entitled "Tentative Recommended Practice for Low-Pressure Air Test of Vitrified Clay Pipe Lines". The testing methods selected should take into consideration the range in ground water elevations projected and the situation during the test.

NOTE: contour interval shown is 2 ft  
 TOPOGRAPHIC SURVEY BY OTHERS.

**UTILITY SITE PLAN**  
 THE VILLAGE OF ARBOR RIDGE  
 SITUATED IN E 1/2 OF SECTION 26 AND SE 1/4 OF SECTION 28,  
 T7N R1E, MADISON COUNTY, MISSISSIPPI.



**GENERAL NOTES:**

1. CURB INLETS SHALL BE 5 FT. STANDARD.
2. CONSTRUCTION OF STREET SHALL BE IN ACCORDANCE WITH MADISON CO. REGULATIONS AND CONSTRUCTION OF SAN. SEWER AND WATER MAINS SHALL BE IN ACCORDANCE WITH CITY OF RIDGELAND REGULATIONS.

**CURVE DATA**

Stationing	Curve Data	Stationing	Curve Data
1+00	100' 0" R	1+00	100' 0" R
2+00	100' 0" R	2+00	100' 0" R
3+00	100' 0" R	3+00	100' 0" R
4+00	100' 0" R	4+00	100' 0" R
5+00	100' 0" R	5+00	100' 0" R
6+00	100' 0" R	6+00	100' 0" R
7+00	100' 0" R	7+00	100' 0" R
8+00	100' 0" R	8+00	100' 0" R
9+00	100' 0" R	9+00	100' 0" R
10+00	100' 0" R	10+00	100' 0" R

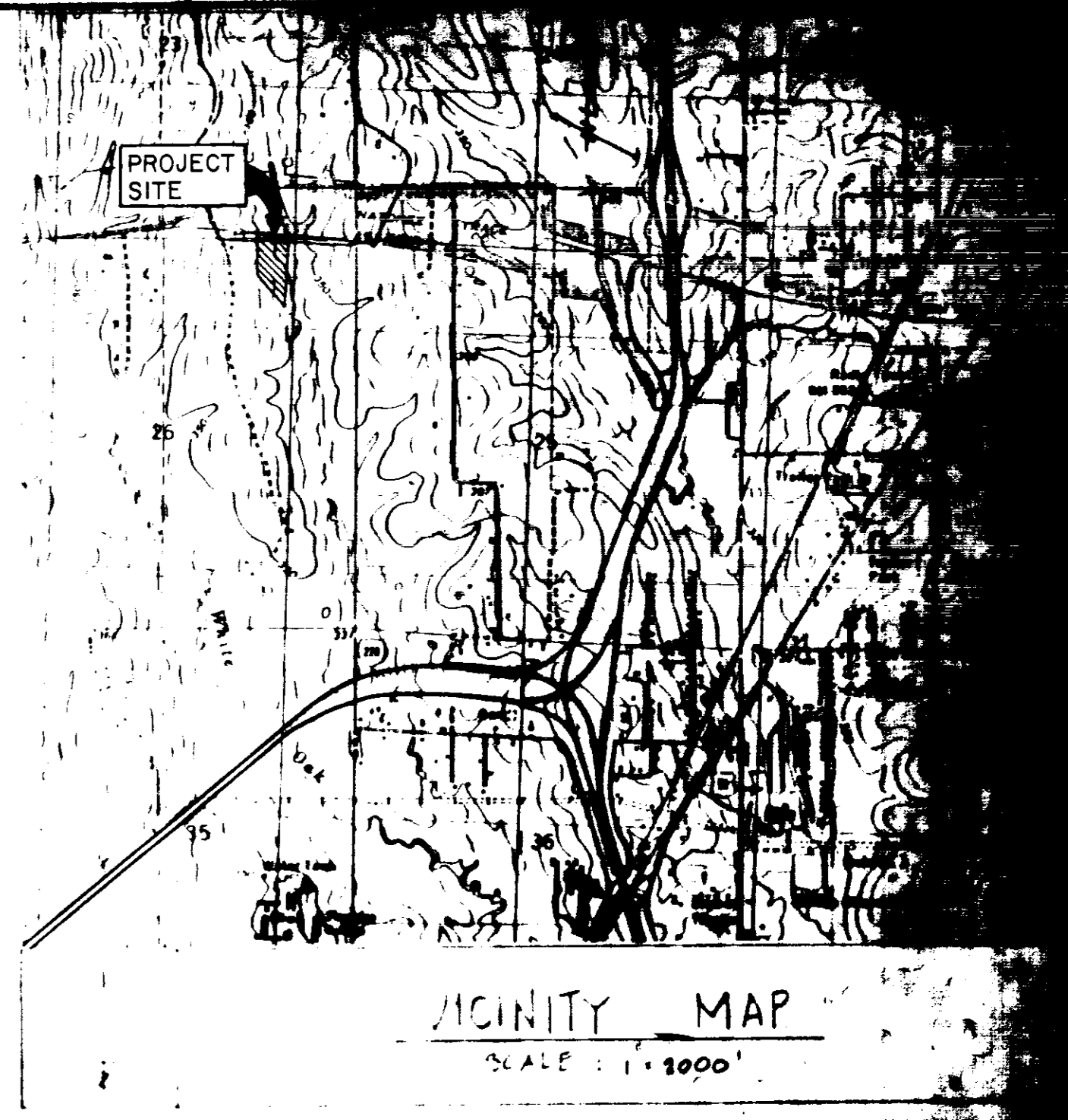
**STORM DRAINAGE COMPUTATIONS**

**RUNOFF:** Q = CIA  
 C = 0.75  
 I = 6 INCHES/NOOR  
 A = DRAINAGE AREA

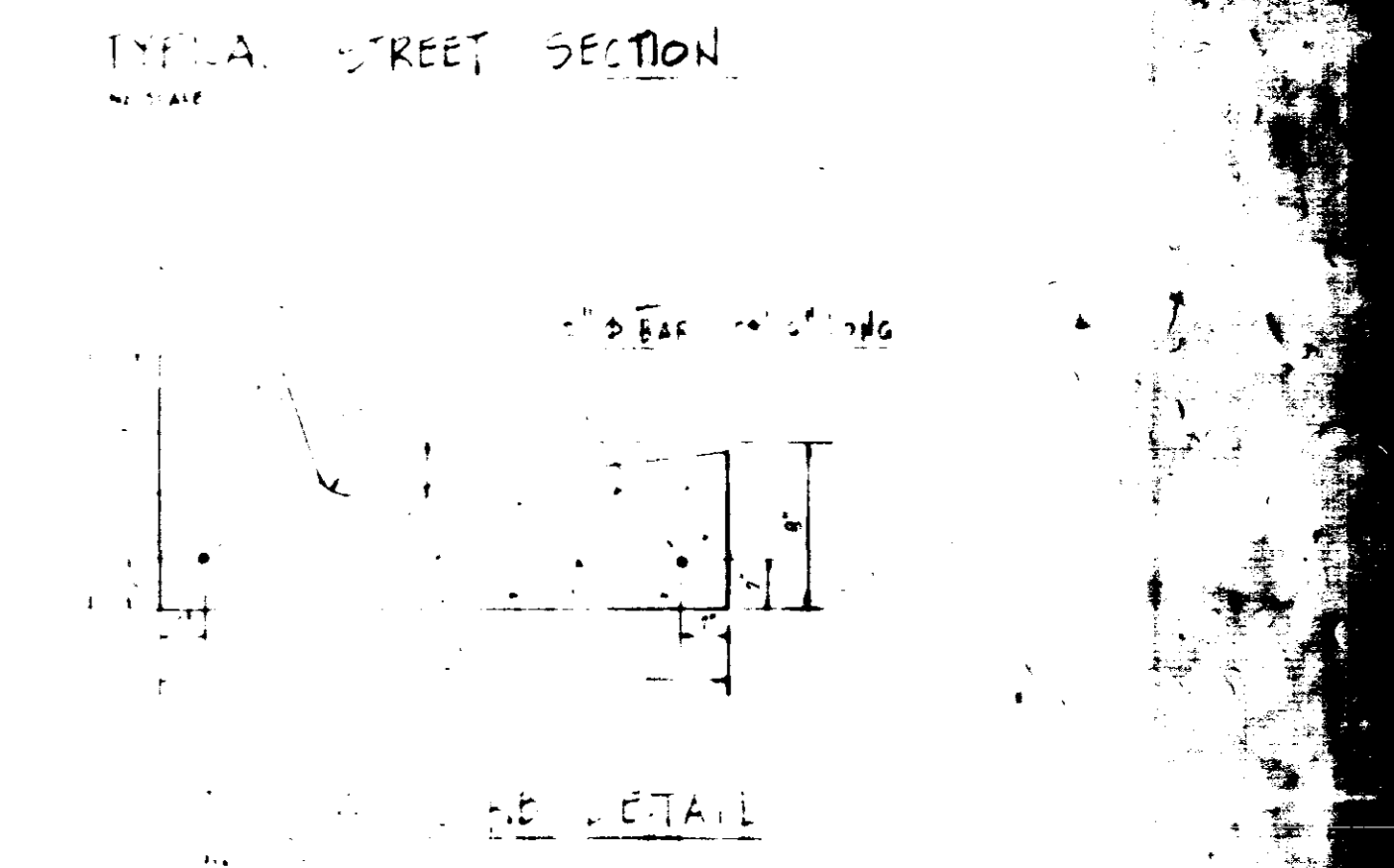
**CAPACITY:** Q = CwS 1/2  
 C = (1.48/m) A 2/3  
 A = slope

**NOTE:** C, is taken from Table 3 in the "Concrete Pipe Design Manual" published by the American Concrete Pipe Association.

<b>INLET #1:</b>	D.A. = 0.75 Acres Q = 0.75x6x0.75 Q = 3.38 cfs	18" @ 0.40% Q = 91x.0632 Q = 6.76 cfs
<b>INLET #2:</b>	D.A. = 1.77 Acres Q = 0.75x6x2.52 Q = 11.34 cfs	18" @ 2.00% Q = 91x.1414 Q = 12.86 cfs
<b>INLET #2A:</b>	D.A. = 0.75 Acres Q = 0.75x6x3.27 Q = 14.72 cfs	18" @ 2.80% Q = 91x.1673 Q = 15.22 cfs
<b>INLET #3:</b>	D.A. = 0.75 Acres Q = 0.75x6x4.02 Q = 18.09 cfs	18" @ 4.00% Q = 91x.200 Q = 18.20 cfs
<b>JUNCTION BOX #9:</b>	D.A. = 0.0 Acres Q = 0.75x6x4.02 Q = 18.09 cfs	18" @ 4.00% Q = 91x.20 Q = 18.20 cfs
<b>INLET #4:</b>	D.A. = 2.50 Acres Q = 0.75x6x6.52 Q = 29.34 cfs	24" @ 5.14% Q = 196x.200 Q = 44.44 cfs
<b>INLET #6A:</b>	D.A. = 1.0 Acres Q = 0.75x6x0.7 Q = 4.50 cfs	18" @ 1.00% Q = 91x.100 Q = 9.10 cfs
<b>INLET #6:</b>	D.A. = 1.7 Acres Q = 0.75x6x2.7 Q = 12.16 cfs	18" @ 2.00% Q = 91x.1414 Q = 12.86 cfs
<b>INLET #7:</b>	D.A. = 0.75 Acres Q = 0.75x6x4.45 Q = 15.82 cfs	18" @ 4.18% Q = 91x.2045 Q = 18.61 cfs
<b>INLET #8:</b>	D.A. = 1.7 Acres Q = 0.75x6x10.72 Q = 48.24 cfs	18" @ 2.00% Q = 91x.1414 Q = 12.86 cfs
<b>EXISTING INLET #8A-B:</b>	D.A. = 0.75 Acres DQA = 0.075x6x6.52 Q = 10.75x6.52 Q = 48.24 cfs	18" @ 4.18% Q = 91x.2045 Q = 18.61 cfs
<b>INLET #8:</b>	D.A. = 0.75 Acres Q = 0.75x6x10.72 Q = 48.24 cfs	30" @ 2.00% Q = 355.5x.1414 Q = 50.27 cfs
<b>EXISTING INLET #8A:</b>	D.A. = 0.0 Acres Q = 0.75x6x10.92 Q = 48.24 cfs	30" @ 3.43% Q = 355.5x.1852 Q = 65.84 cfs



T.B.M. NO. 1-X: ELEV. = 373.03  
 NAIL IN EAST SIDE OF 12" OAK  
 APP. 130' RIGHT OF STA. 8+00  
 ALPHEE HIGHWAY



**DRAINAGE SITE PLAN**  
 RIDGE

**DRAINAGE SITE PLAN**  
 THE VILLAGE OF ARBOR RIDGE

④ CURVE DATA

Δ = 71° 31' 41"	Δ = 44° 35' 44"	Δ = 11° 54' 42"
D = 21.0781'	D = 30.5801'	D = 7.8381'
T = 200.00'	T = 70.50'	T = 115.20'
L = 345.00'	L = 145.80'	L = 220.52'
R = 372.5371'	R = 181.2275'	R = 750.3707'

Δ = 04° 56' 25"
D = 4.7200'
T = 50.00'
L = 99.74'
R = 1102.7180'

T.B.M. NO. 1-X: ELEV. = 373.03  
 NAIL IN EAST SIDE OF 12" OAK  
 APP. 130' RIGHT OF STA. 8+00  
 ARBOR RIDGE ROAD

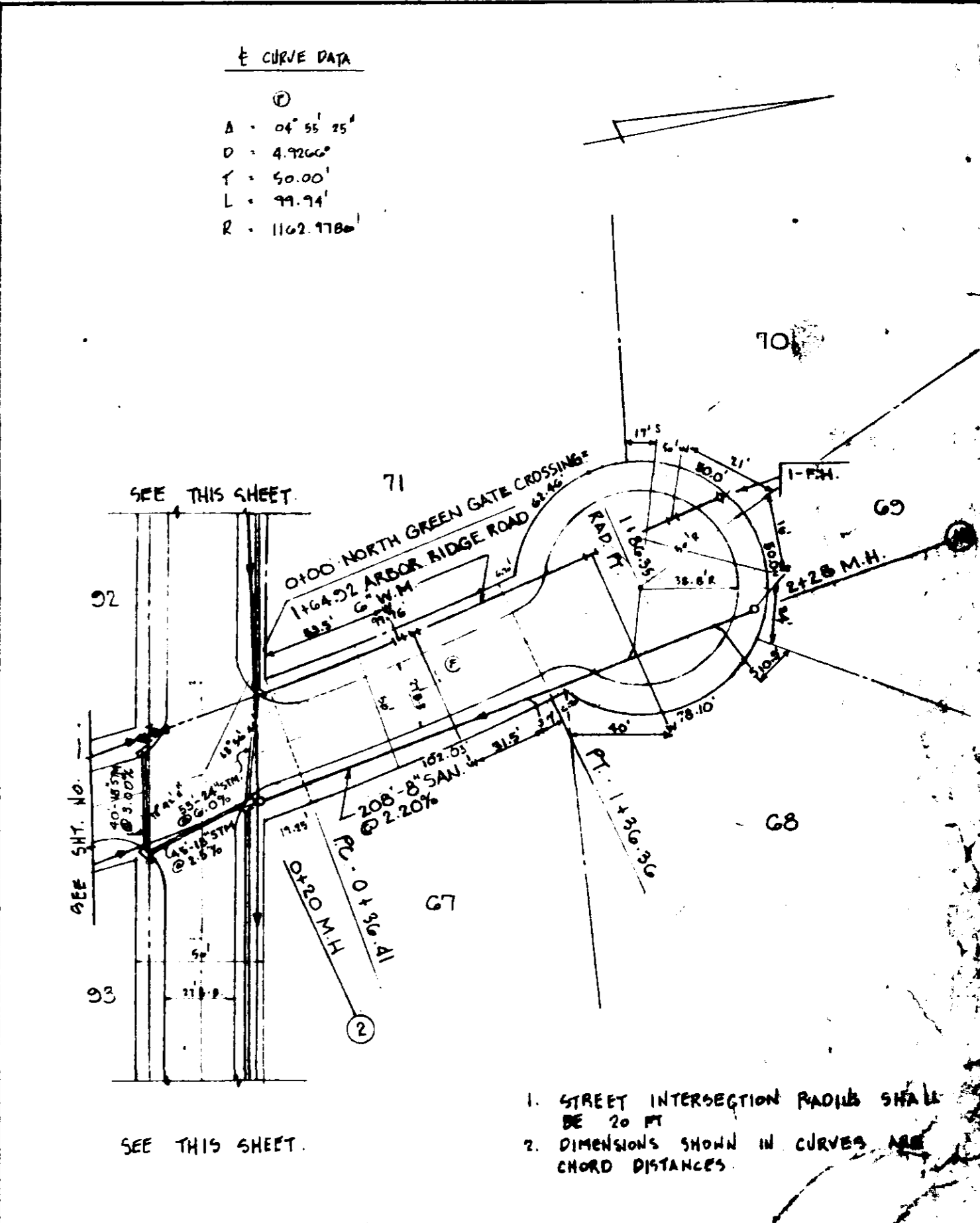
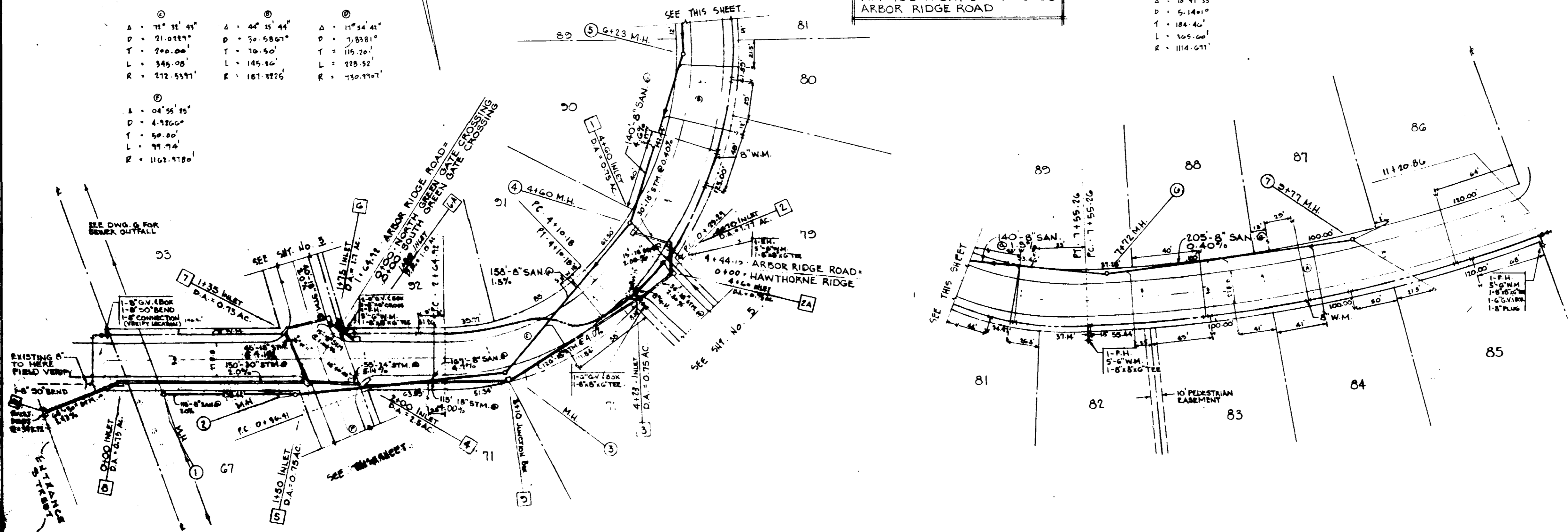
④ CURVE DATA

Δ = 18° 41' 35"
D = 5.1400'
T = 184.40'
L = 305.60'
R = 1114.077'

④ CURVE DATA

Δ = 04° 56' 25"
D = 4.7200'
T = 50.00'
L = 99.74'
R = 1102.7180'

PLAN  
 NOTE BOOK



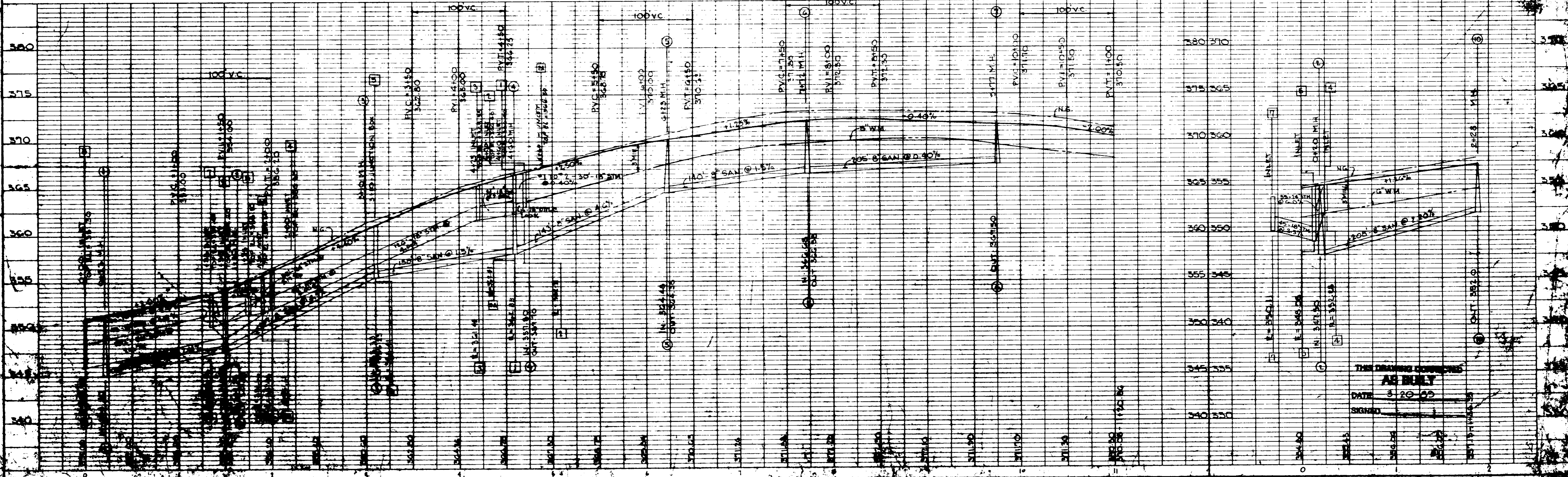
- STREET INTERSECTION RADIUS SHALL BE 20 FT.
- DIMENSIONS SHOWN IN CURVES ARE CHORD DISTANCES

PLAN PROFILE: ARBOR RIDGE ROAD

SCALE: 1" = 50' (HORIZ.), 1" = 5' (VERT.)

PLAN PROFILE: NORTH GREEN GATE CROSSING

SCALE: 1" = 50' (HORIZ.), 1" = 5' (VERT.)



THE DRAWING COMPANY  
**AG BULLY**  
 DATE: 3-20-09  
 SIGN: [Signature]

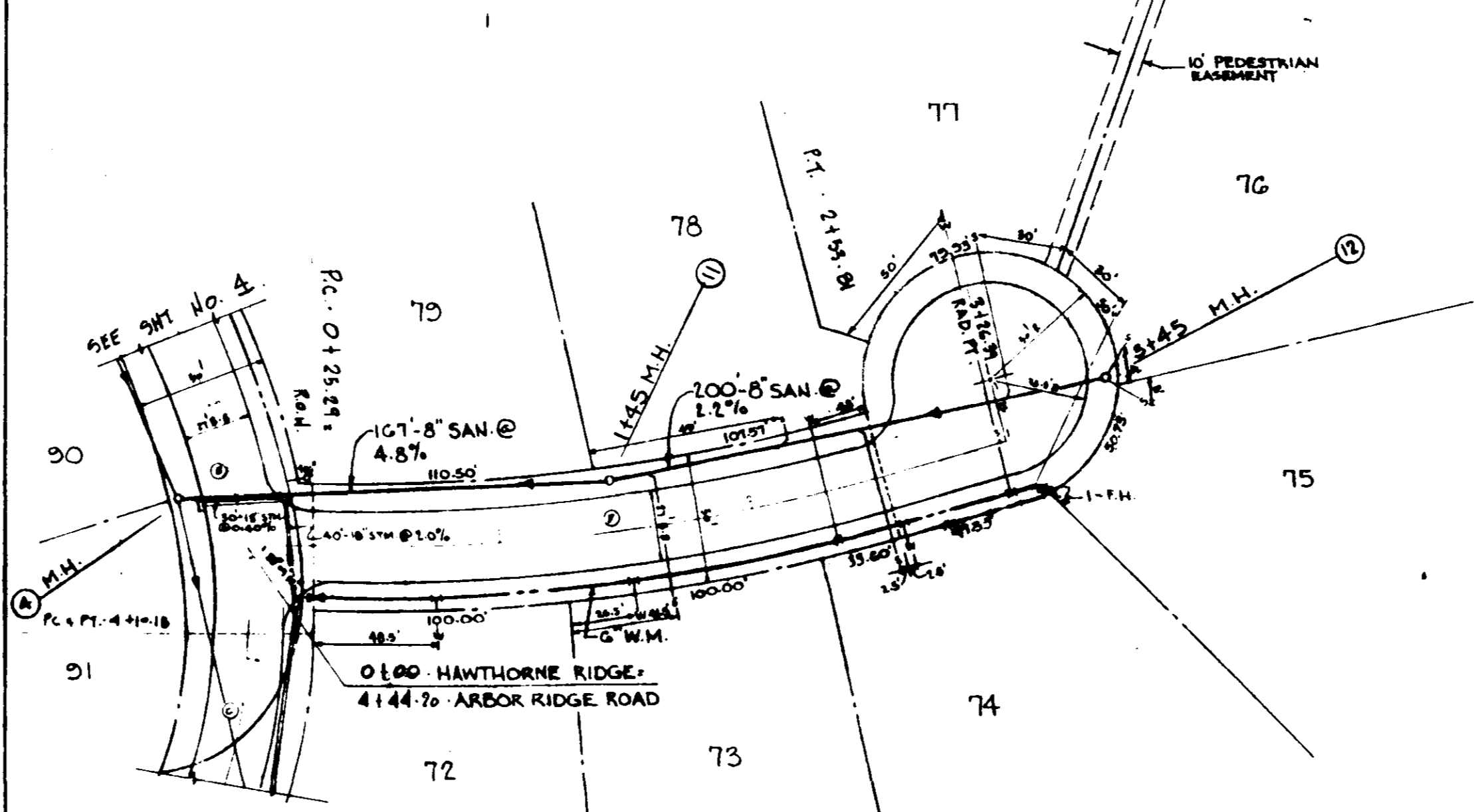
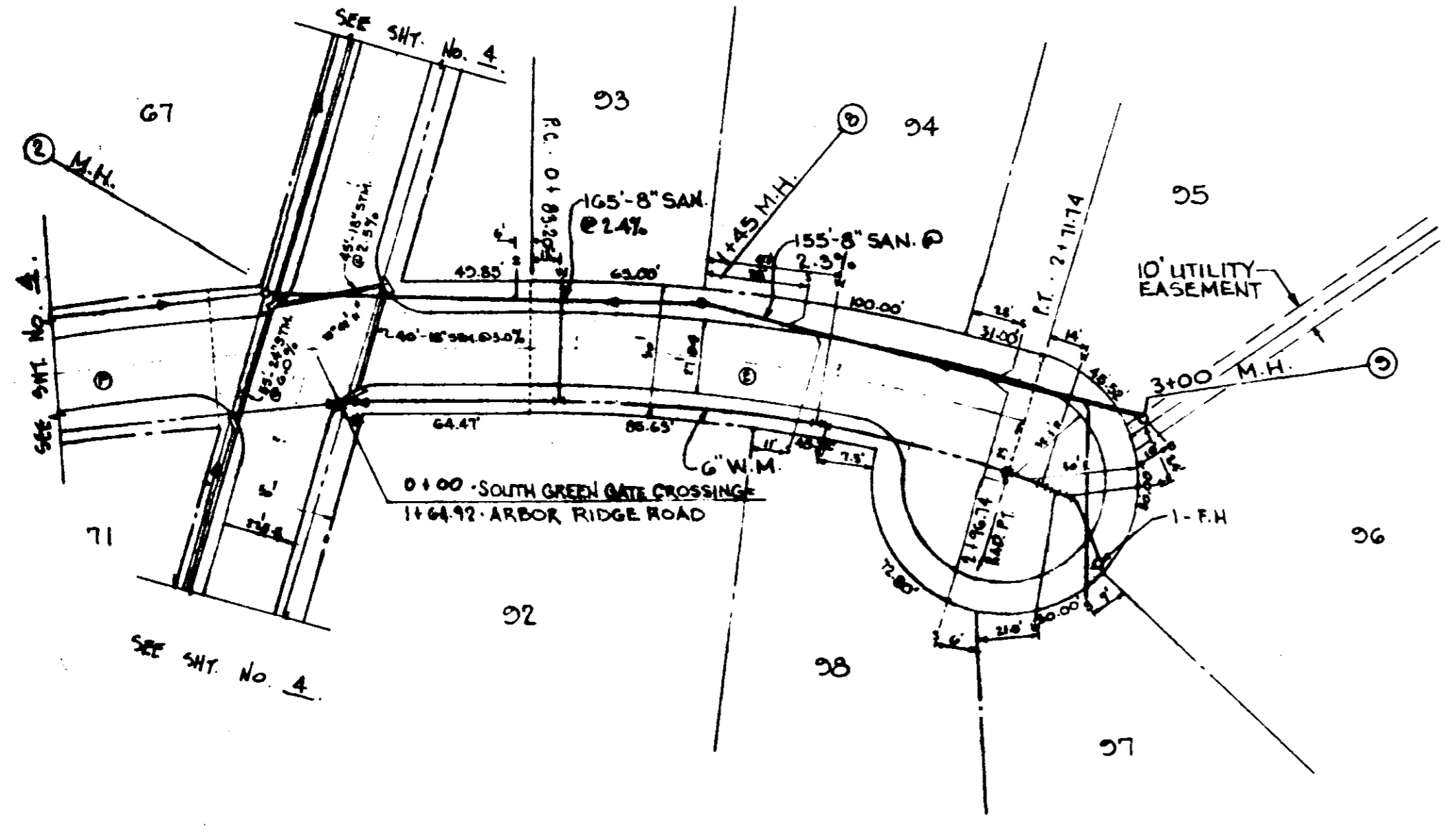
T.B.M. NO.1-X : ELEV. 373.03  
 NAIL IN EAST SIDE OF 12" OAK  
 APP. 130' RIGHT OF STA. 8+00  
 ARBOR RIDGE ROAD

④ CURVE DATA

②	③
A = 17° 18' 41"	A = 04° 55' 25"
D = 4.9200'	D = 4.9200'
T = 75.00'	T = 30.00'
L = 188.54'	L = 77.74'
E = 621.009'	E = 1102.978'

④ CURVE DATA

②	③	④
A = 70° 11' 43"	A = 44° 45' 44"	A = 17° 54' 42"
D = 21.0229'	D = 30.6661'	D = 7.8531'
T = 200.00'	T = 76.50'	T = 115.70'
L = 345.08'	L = 145.20'	L = 238.58'
R = 272.5371'	R = 187.3225'	R = 730.7701'

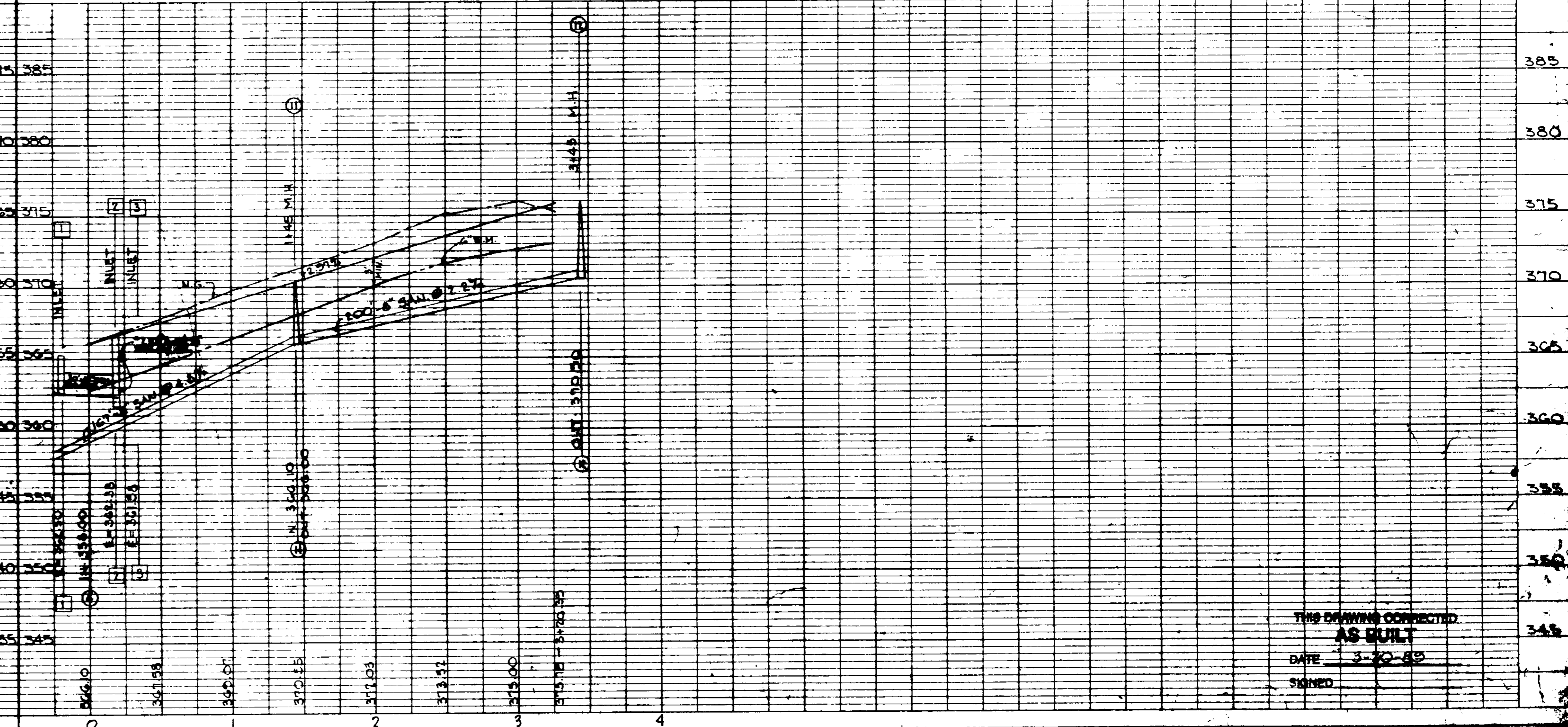
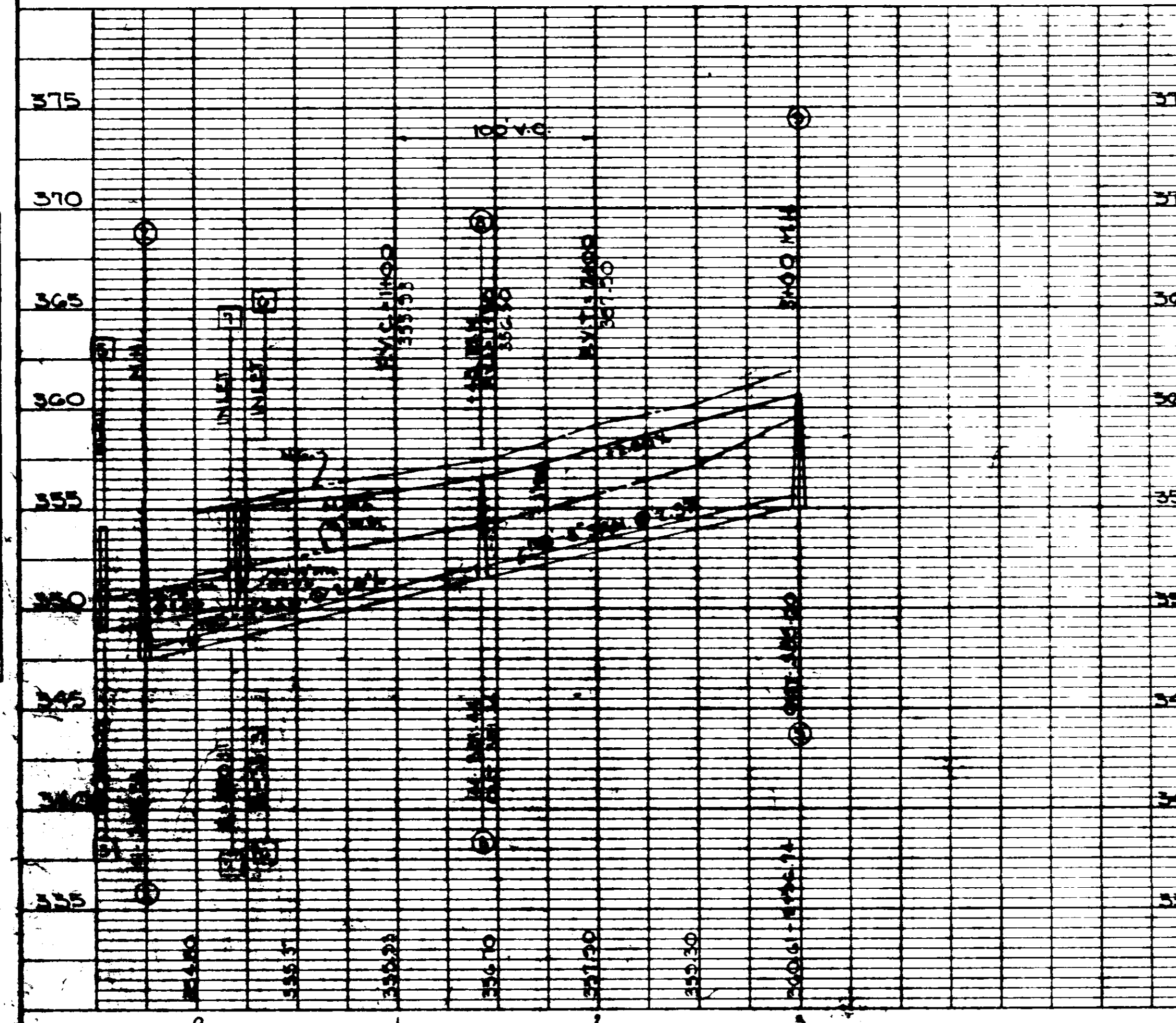


- STREET INTERSECTION RADIUS SHALL BE 20 FT.
- DIMENSIONS SHOWN IN CURVES ARE CHORD DISTANCES.

- STREET INTERSECTION RADIUS SHALL BE 20 FT.
- DIMENSIONS SHOWN IN CURVES ARE CHORD DISTANCES.

PLAN PROFILE : SOUTH GREEN GATE CROSSING  
 SCALE : 1" = 50' (HORIZ.) / 1" = 5' (VERT.)

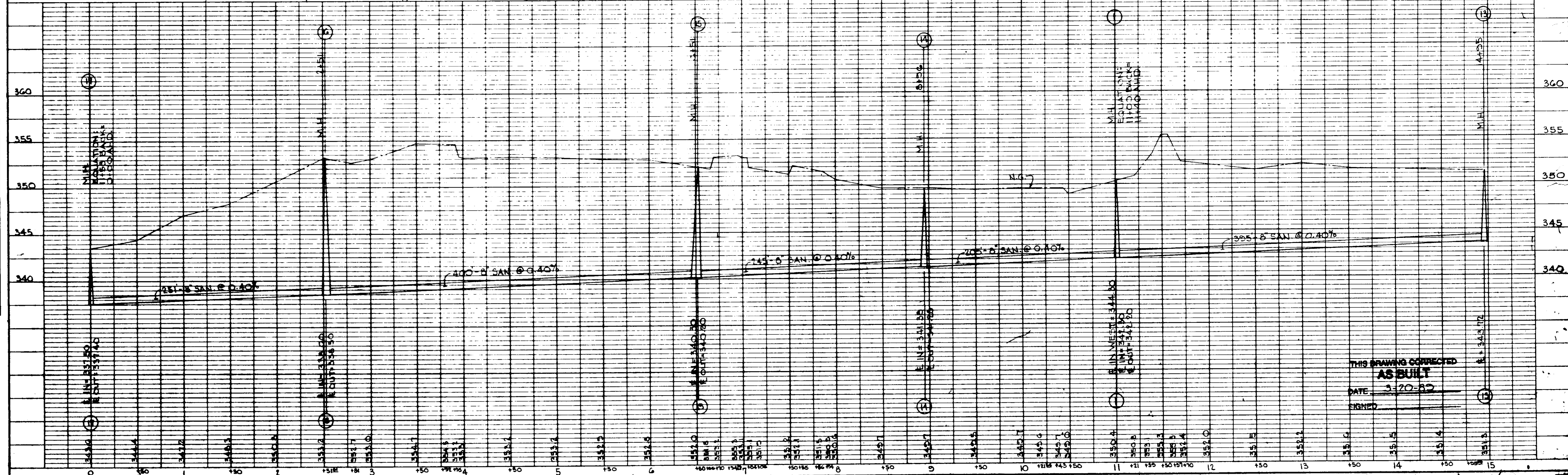
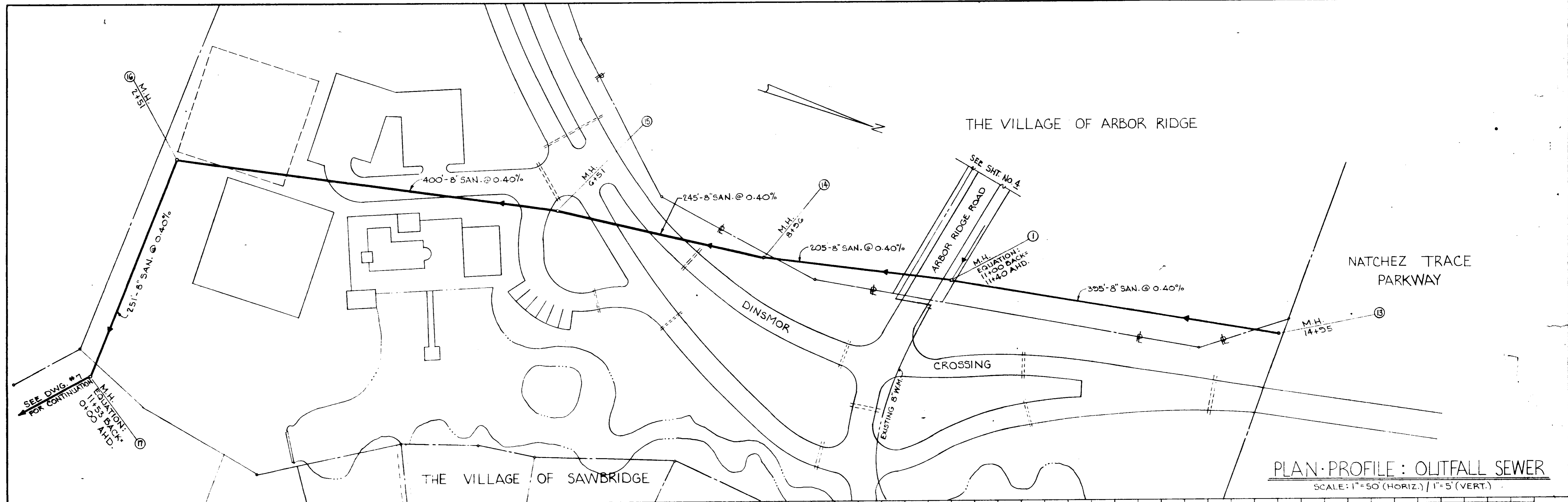
PLAN PROFILE : HAWTHORNE RIDGE  
 SCALE : 1" = 60' (HORIZ.) / 1" = 5' (VERT.)



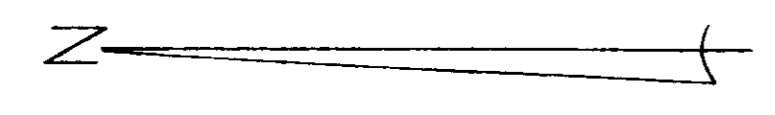
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 DATE 3-10-85  
 SIGNED

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CHECKED	
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NOTED	
REVISIONS	

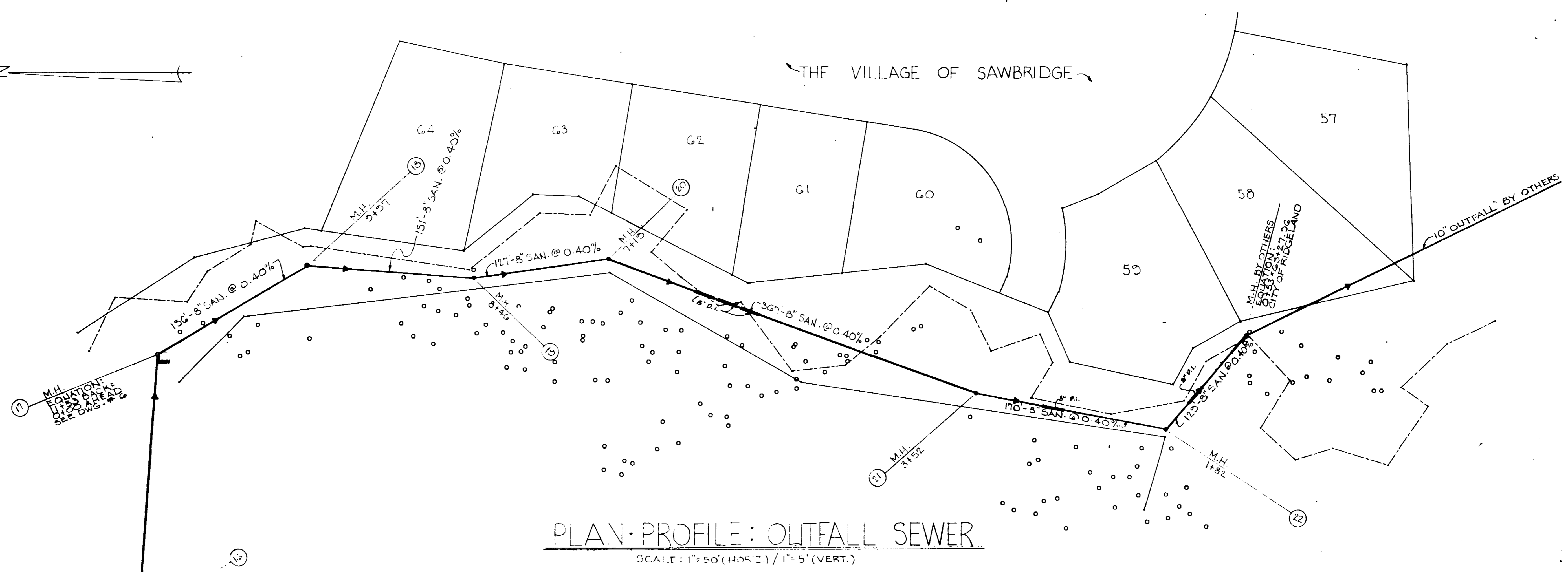
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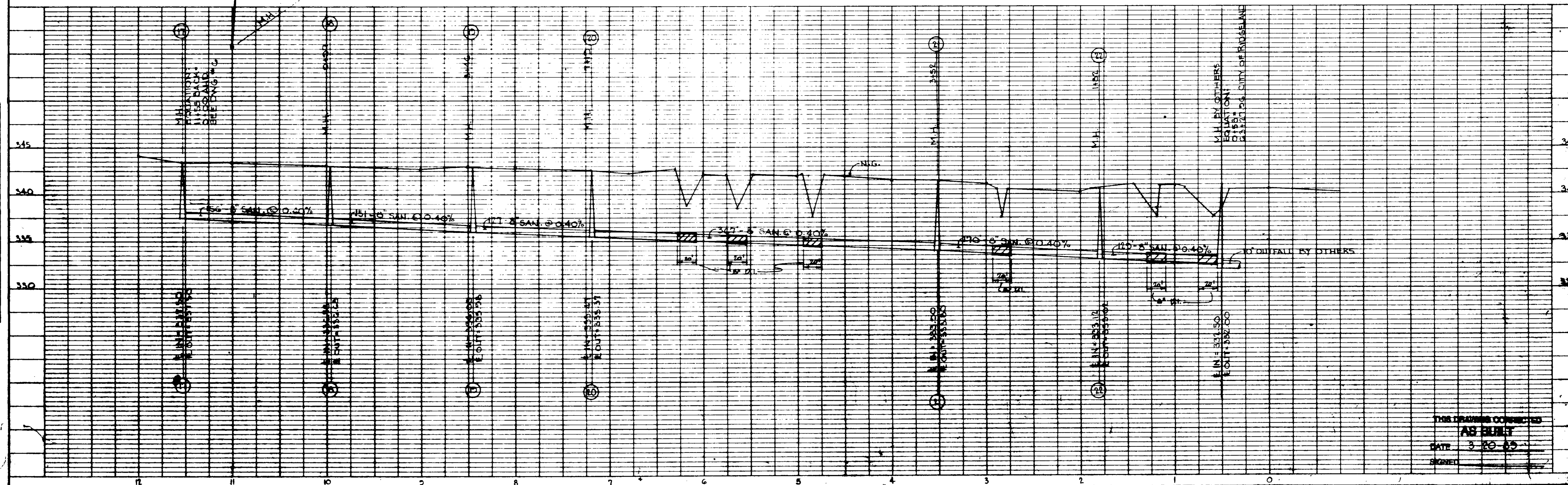
THE VILLAGE OF SAWBRIDGE



PLAN · PROFILE : OUTFALL SEWER  
 SCALE : 1" = 50' (HORIZ.) / 1" = 5' (VERT.)

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ENGINEERING	
CONSTRUCTION	
OPERATION	
MAINTENANCE	



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 DATE 3-20-65  
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