

**City of O'Fallon**

**General Notes**

1. Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing and proposed sanitary and storm sewers, including house laterals.
2. Underground utilities have been plotted from available information and, therefore, their locations must be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor, and shall be located prior to grading or construction of improvements.
3. Polyvinyl Chloride (PVC) shall conform to the requirements of ASTM D-3034 Standard Specifications for the PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings, SDR-35.
4. Storm sewers 18" in diameter or smaller shall be ASTM C-14.
5. Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
6. All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (ASTM C-76, Class III) unless noted otherwise on the plans.
7. Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.O. See plans for gauge.
8. All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.O. T-180 Compaction Test" (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a Soils Engineer.
9. All earthen filled places within State, County, or City roads (Highways) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.O. T-99" (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a Soils Engineer.
10. All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
11. Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location and size of easements. This does not apply to house laterals.
12. No area shall be cleared without the permission of the developer.
13. All grade shall be within 0.2 feet (more or less) of those shown on the grading plan.
14. No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
15. Hazard markers will consist of three (3) standard specification, "Manual on Uniform Traffic Control Devices", end of roadway markers mounted on two (2) pound "U" channel sign post. Each marker shall consist of an eighteen (18) inch diamond reflectorized red panel. The bottom of each panel shall be mounted a minimum of four (4) feet above the elevation of the pavement surface.
16. All manhole and curb inlet tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor. At the time of construction stake-out of the sewer lines, all curb and grate inlets will be face staked. If normal face stakes fall in line with sewer construction, the Engineer will set these stakes on a double offset. It shall be the responsibility of the sewer contractor to preserve all face stakes from destruction.
17. All standard street curb inlets to have front of inlet 2 feet behind curb.
18. The minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding house connection shall not be less than the diameter of the sanitary sewer plus a vertical distance of not less than 2 feet.
19. Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
20. All cast iron pipe for water mains shall conform to A.W.W.A. specification C-106 and/or C-108. The cast iron fittings shall conform to A.W.W.A. specification C-110. All rubber gasket joints for water cast iron pressure pipe and fittings shall conform to A.W.W.A. specification C-111.
21. All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
22. All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
23. All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
24. All PVC sanitary sewer pipe shall be DR-35 or equal with crushed stone bedding uniformly graded between 5/8" and 1" size. This bedding shall extend from 6" below the pipe to 6" inches above the top of the pipe.
25. All grading on Missouri State Highway Right-of-Way shall be seeded and mulched and all disturbed Right-of-Way Markers shall be reset at the completion of grading.
26. All streets must meet the specifications and installation requirements of the City of O'Fallon.
27. All sanitary manhole tops shall be set 0.2' higher than the proposed ground except in pavement areas or as otherwise noted.
28. All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.
29. All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for Single-family developments.
30. Manhole frame and cover shall be Clay and Bailey No. 2008 for Nonah R-1236 or Deeter-1215 or approved equal.
31. The Duckett Creek Sewer District shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
32. All existing improvements damaged or destroyed during construction shall be replaced or repaired in kind.
33. Brick shall not be used on manholes.
34. This tract is served by:
  - A. Union Electric
  - B. Cottleville Fire Protection Dist.
  - C. Southwestern Bell Telephone
  - D. St. Charles Gas Co.
  - E. Duckett Creek Sewer Dist.
  - F. St. Charles Co. Water Dist. No. 2

**Benchmark**

ORF TRL STA., 3.5 MI. S.W. OF O'FALLON, 0.5 MI. N.E. OF DARDENNE CHURCH, IN CONC. POST-U.S.C.&G.S. STD. DISK STAMPED "ORF 1931"

Elevation  
667.596

This is to certify to \_\_\_\_\_ that these "As-Built" \_\_\_\_\_ plans are based on actual field surveys conducted during \_\_\_\_\_, 19\_\_\_\_ and the results are shown here on.

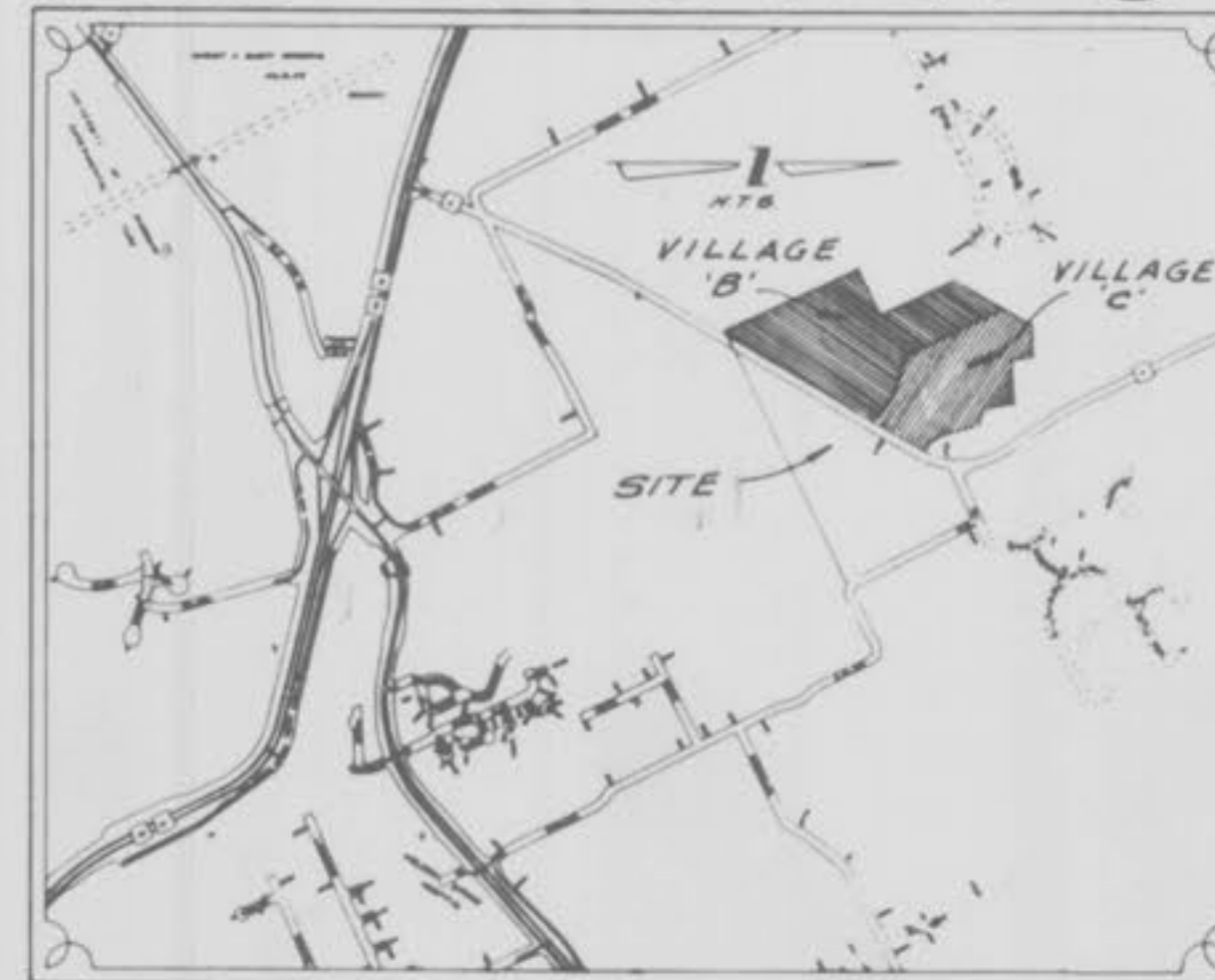
by Pickett Ray & Silver

Delmar F. Vincent  
MO R.L.S., No 1859

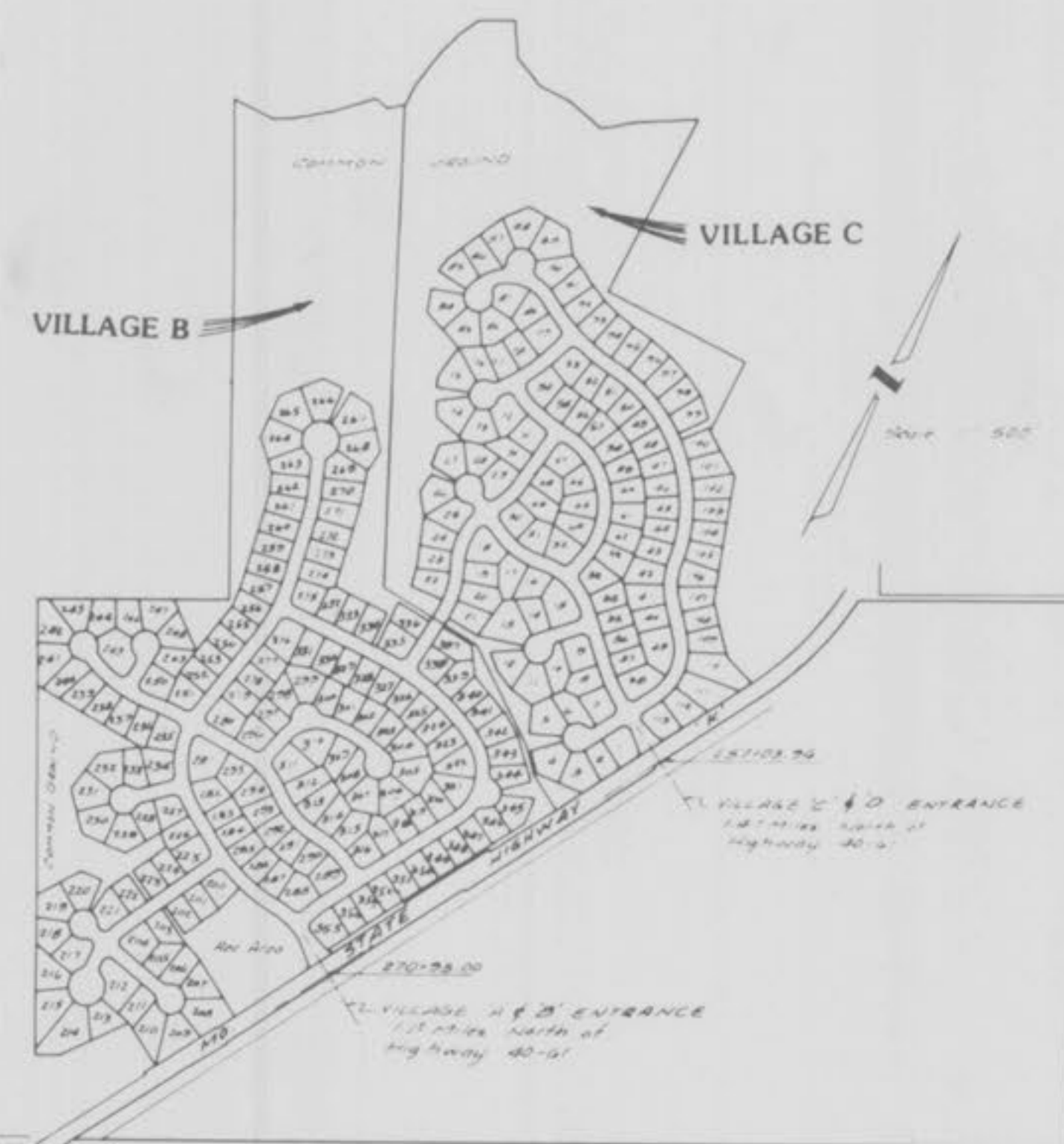
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**VILLAGE B  
"AS-BUILTS"**



**Location Map**



**Key Map**

**Index**

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1	Cover Sheet
2-4	Flat Plans
<del>5-7</del>	<del>Grading Plans</del>
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<del>20-23</del>	<del>Drainage Area Maps</del>
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<del>27-31</del>	<del>Construction Details</del>

**Legend**

	18" Existing Storm Sewer	18" Existing Storm Sewer
	18" Existing Sanitary Sewer	18" Existing Sanitary Sewer
	18" Proposed Storm Sewer	18" Proposed Storm Sewer
	18" Proposed Sanitary Sewer	18" Proposed Sanitary Sewer
	18" Proposed Storm Sewer with Manhole	18" Proposed Storm Sewer with Manhole
	18" Proposed Sanitary Sewer with Manhole	18" Proposed Sanitary Sewer with Manhole
	18" Proposed Storm Sewer with Manhole and Catch Basin	18" Proposed Storm Sewer with Manhole and Catch Basin
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"AS-BUILTS" 8-3-90 KAN  
 1. Rev 3-21-89 Changed Lot No. JWE  
 2. Rev 3-13-89 Added Address JWE  
 3. Rev 3-7-89 per M.D.#2, City of O'Fallon & Duckett Creek JWE

<b>ENGINEERS AUTHENTICATION</b> The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature and date hereunder attached. Responsibility is disclaimed for all other engineering plans included in the project and specifically excluded hereunder after this date unless reauthorized.		<b>PICKETT RAY &amp; SILVER</b> Civil Engineers Planners Land Surveyors 333 Mid Rivers Mall Dr. St. Peters, MO 63376 417-271-2782	
PREPARED FOR: <b>WHITTAKER HOMES</b> 355 Mid Rivers Mall Drive St. Peters, MO. 63376		Phone: (314) 279-1511	
DRAWN: DWJ CHECKED: JWE	DATE: Feb. 1989 DATE: Feb. 1989	PROJECT # 85-0046 JOB ORDER # 2875	

REVISIONS  
 PROJECT DESIGNER







SCALE:  
 HORZ - 1" = 50'  
 VERT - 1" = 10'

SANITARY SEWER PROFILES  
 MONTICELLO VILLAGE B  
 Feb, 1989 85-064L

NOTE: Concrete encasement is required  
 if cover over pipe is less than 3.0'.

"AS-BUILTS" MH 205 8-3-90

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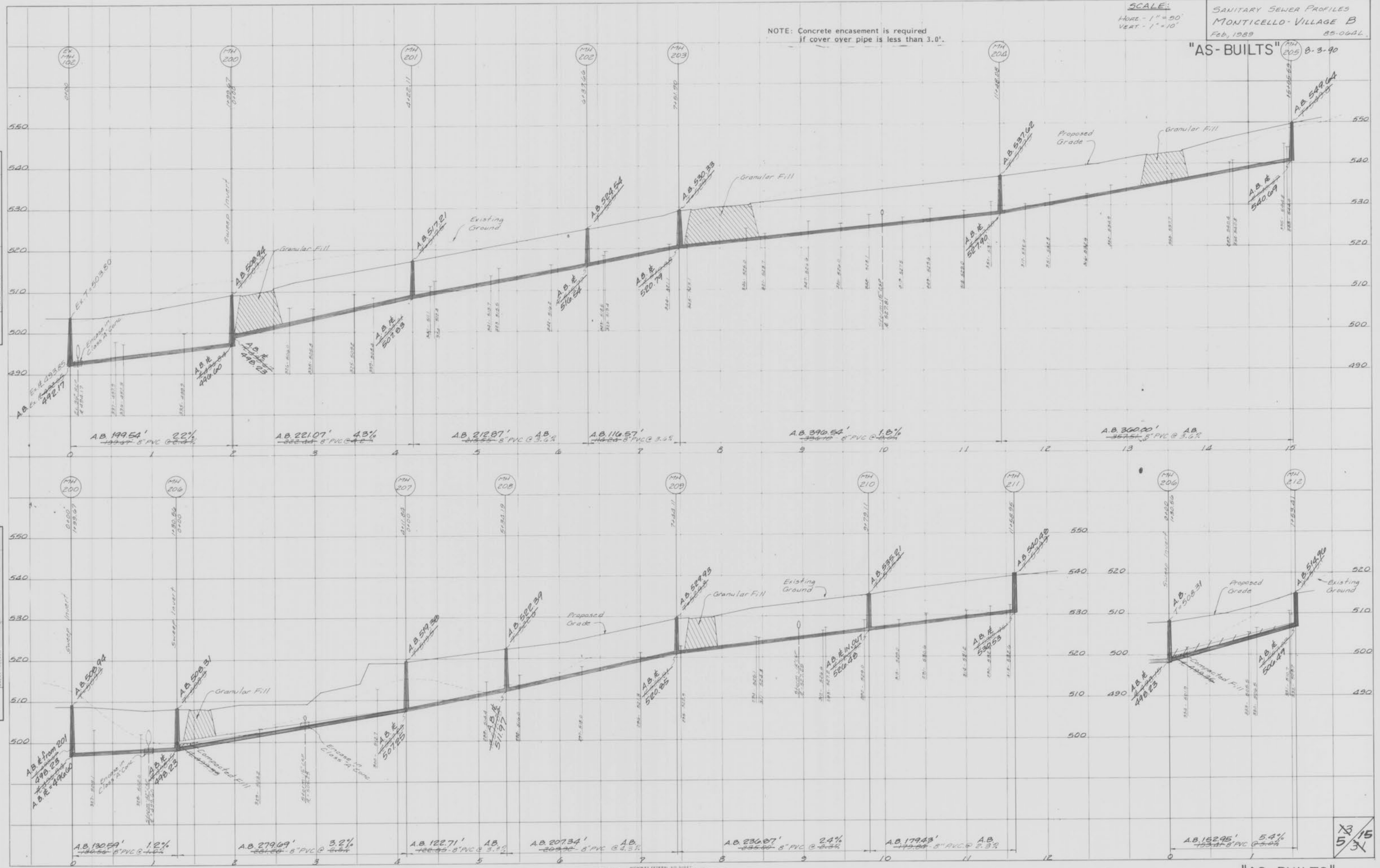


PLATE 3-FULL CROSS SECTION LINE & DOT  
 WELDING  
 PRINTED IN U.S.A.

"AS-BUILTS"  
 MONTICELLO VILLAGE B

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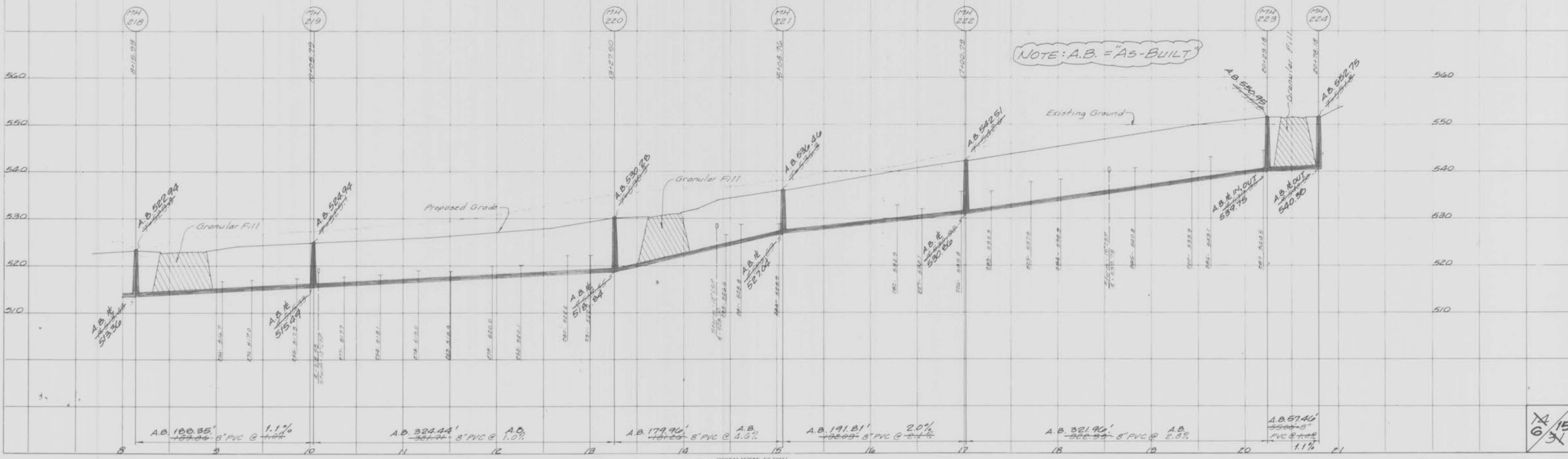
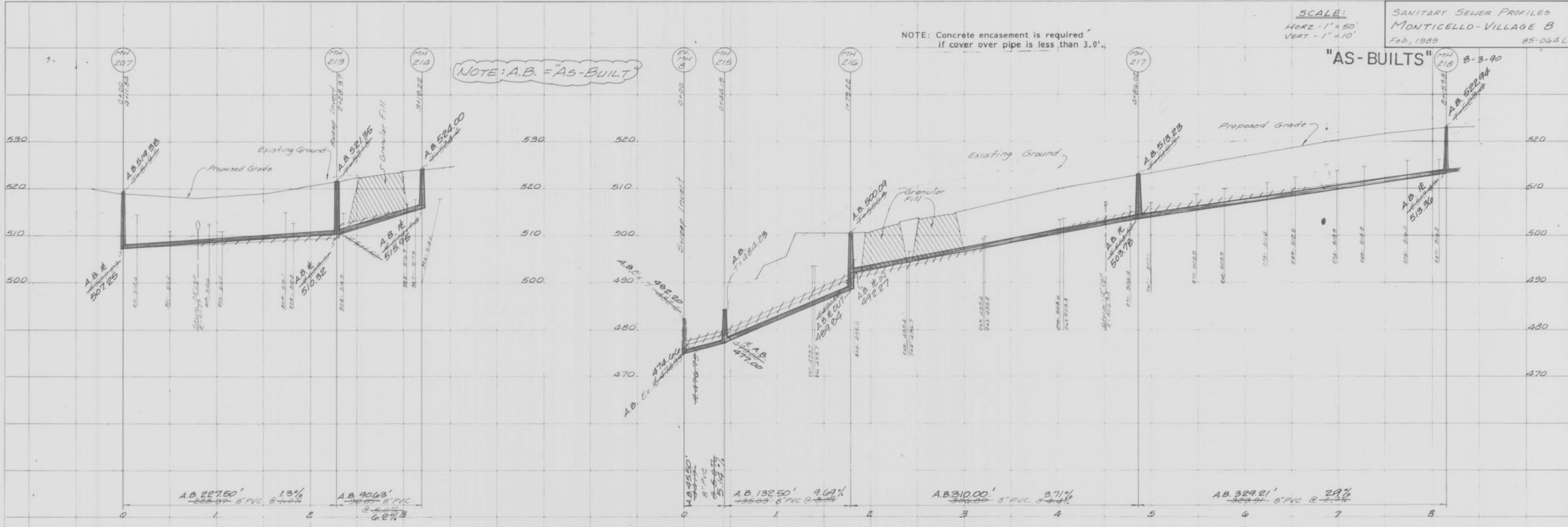
NOTE: Concrete encasement is required  
 if cover over pipe is less than 3.0'

NOTE: A.B. = "AS-BUILT"

"AS-BUILTS" MH 218 8-3-90

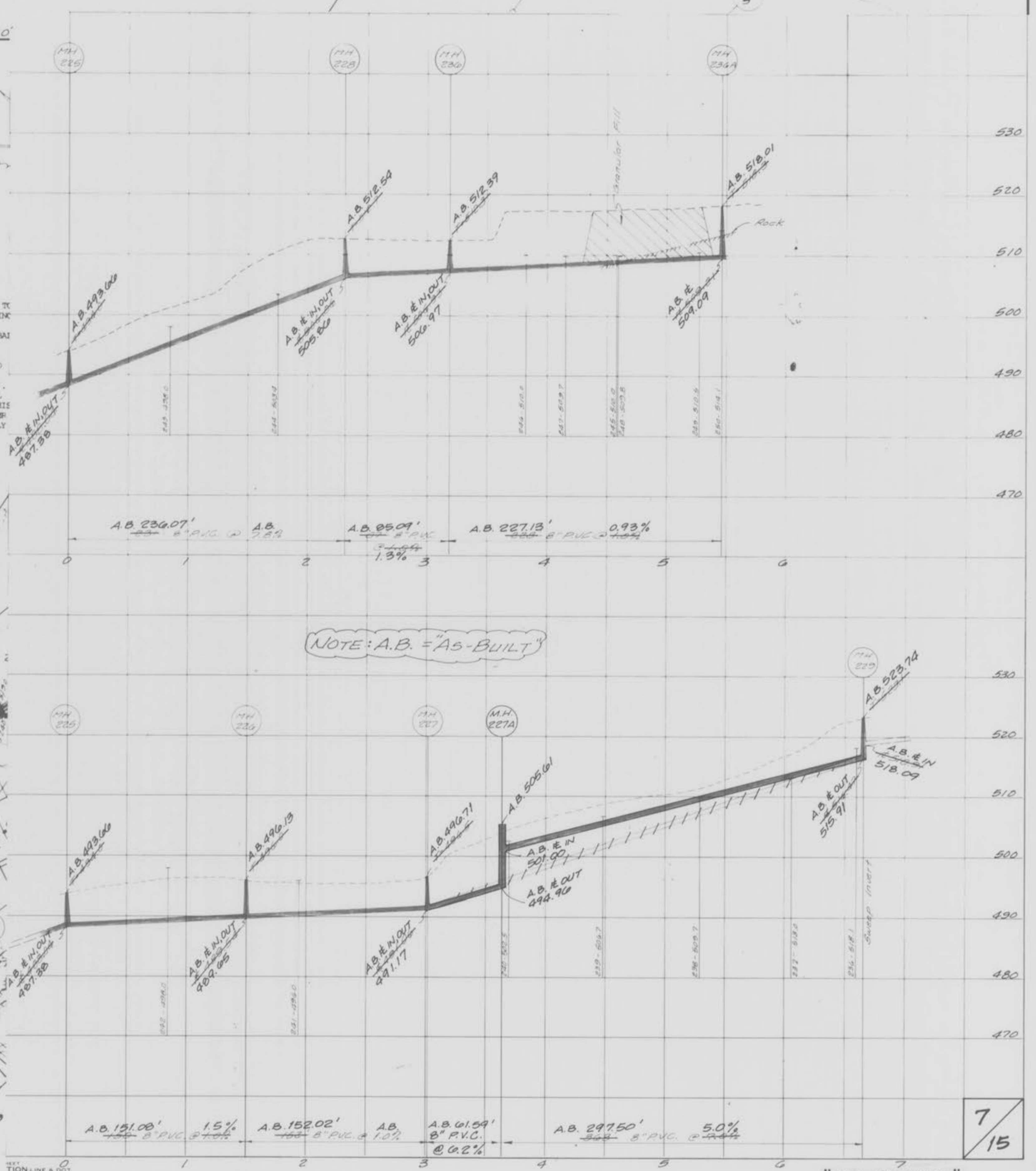
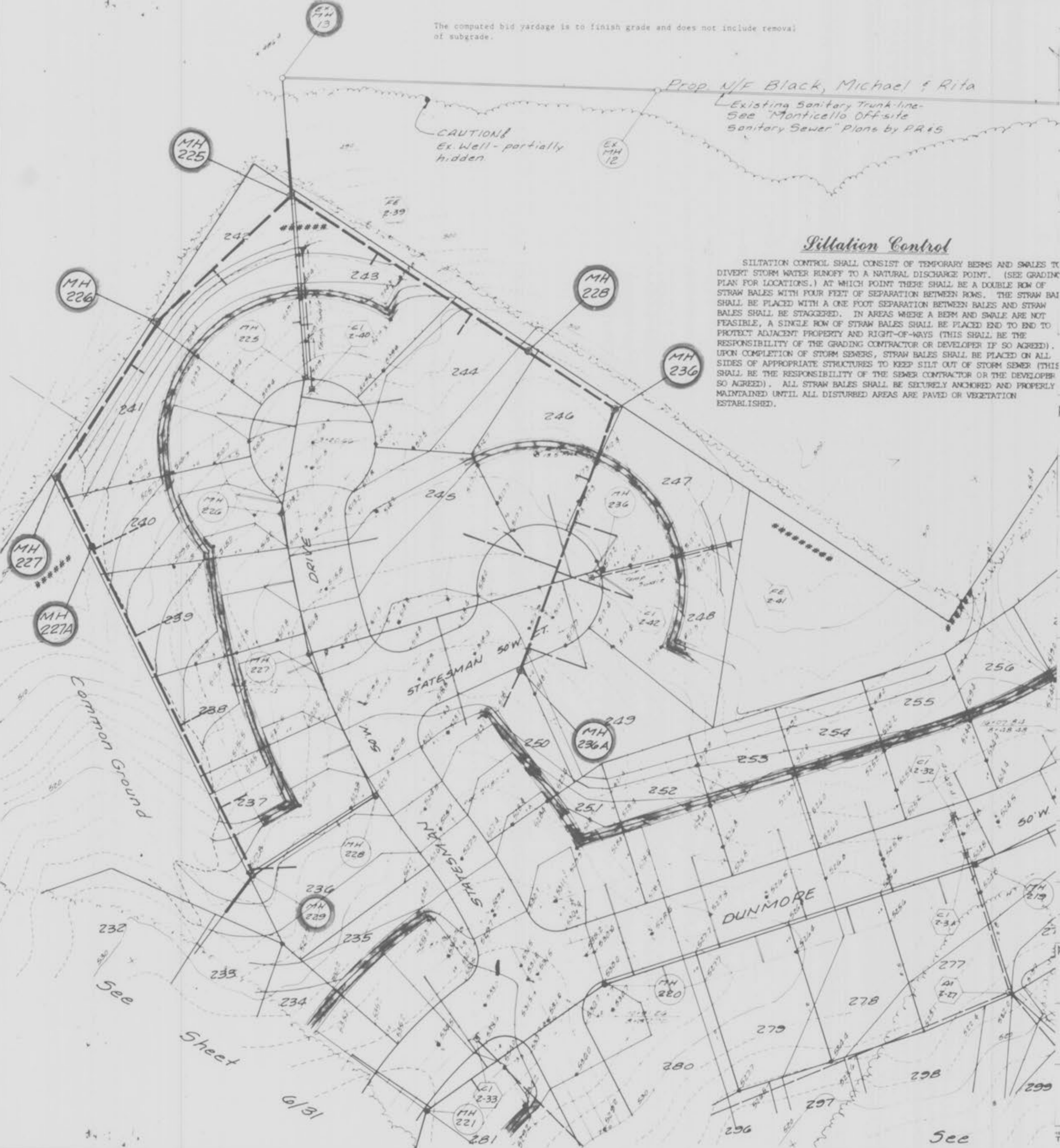
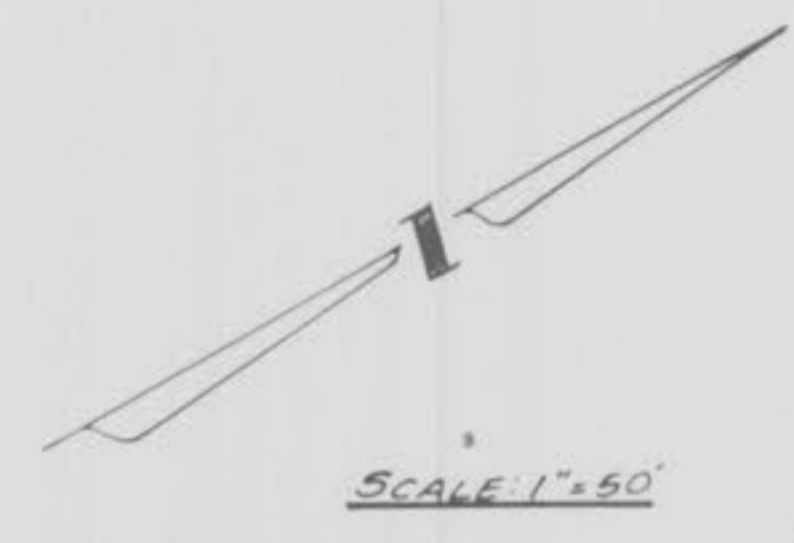
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14  
 6/15  
 31

The total yardage for this project is based on a 15% shrinkage factor.  
 This shrinkage factor is subject to change, due to soil conditions, types and moisture content, weather conditions, and the percent compaction actually achieved. As a result, adjustments in final grades may be required.  
 Earth quantities obtained from aerial grid map, with contours at two-foot intervals, with a tolerance of plus or minus 1 foot, or 1/2" contour interval.  
 The computed bid yardage is to finish grade and does not include removal of subgrade.

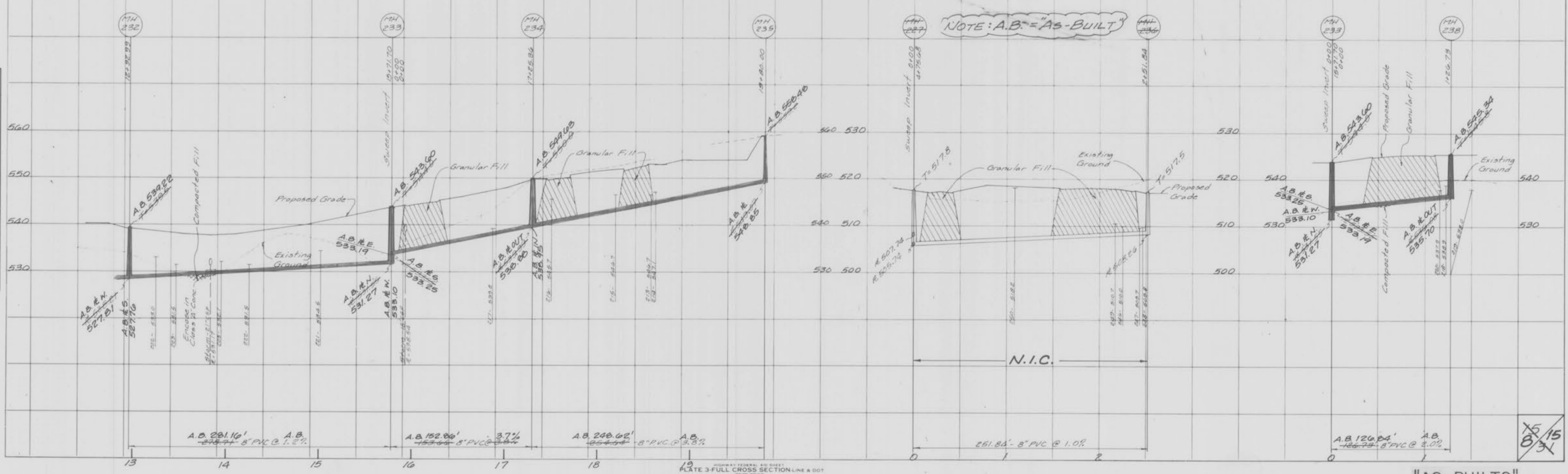
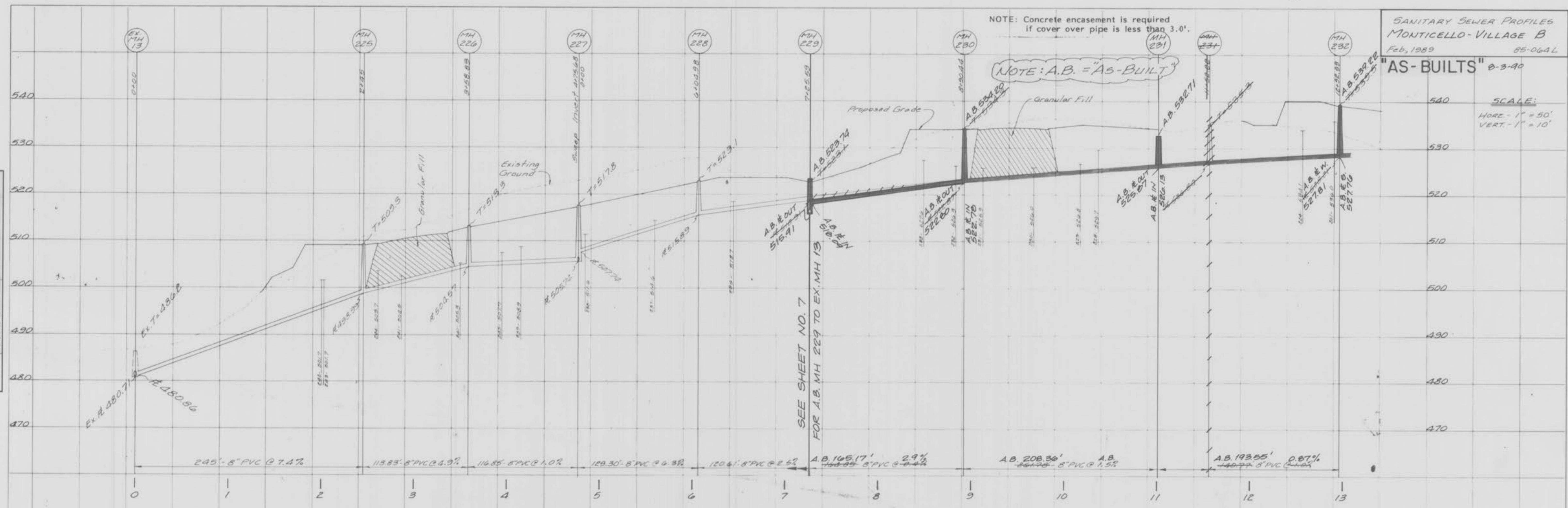


**SANITARY SEWER PROFILES**  
**MONTICELLO-VILLAGE B**  
 Feb, 1989 85-064L  
**"AS-BUILTS" 8-3-90**

**SCALE:**  
 HORIZ - 1" = 50'  
 VERT - 1" = 10'

NOTE: Concrete encasement is required if cover over pipe is less than 3.0'.

NOTE: A.B. = "AS-BUILT"



**"AS-BUILTS"**  
 MONTICELLO VILL. B

8/15  
 8/31

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Monticello Village B Sewer

SCALE:  
HORIZ - 1" = 50'  
VERT - 1" = 10'

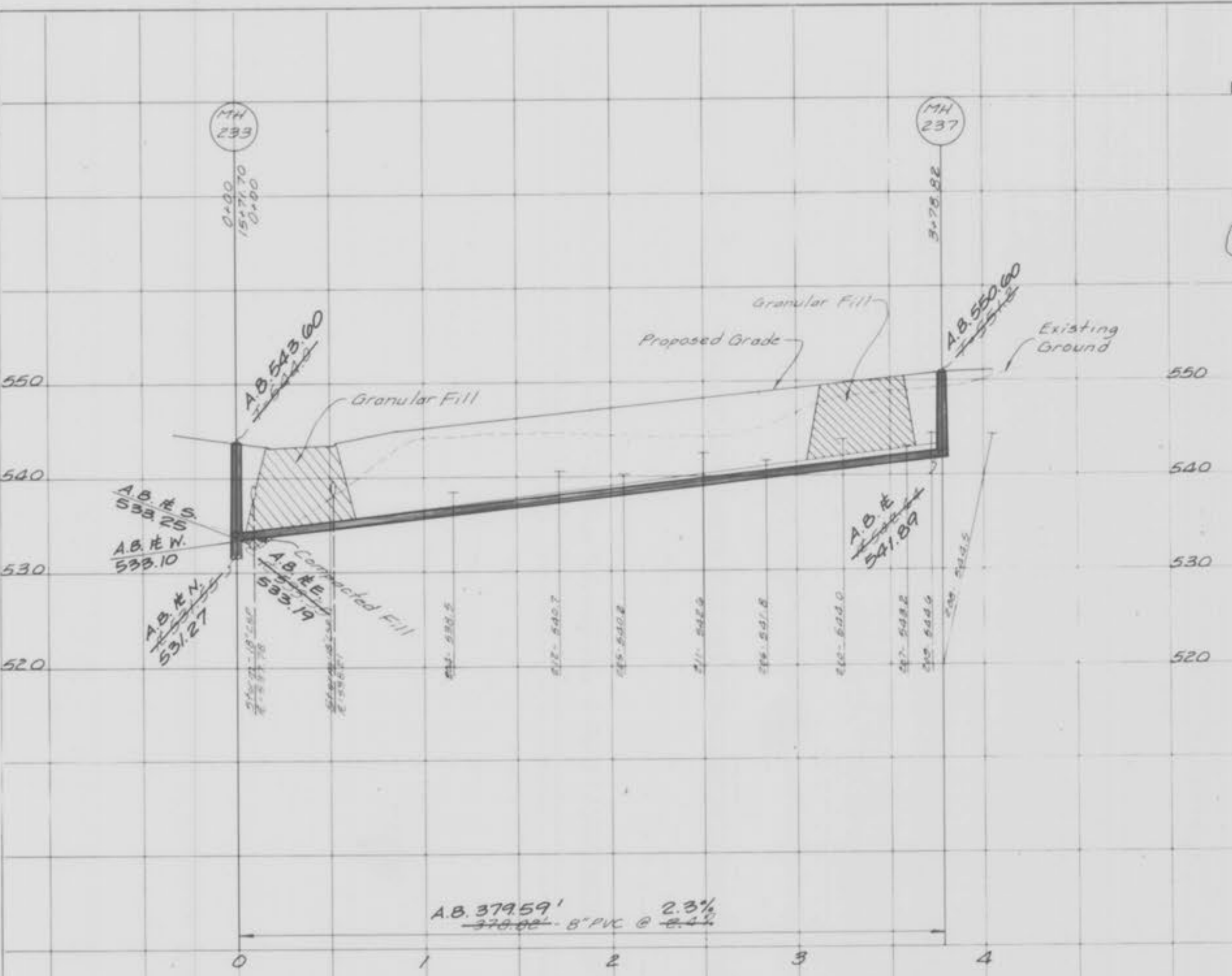
SANITARY SEWER PROFILES  
MONTICELLO - VILLAGE B  
Feb, 1989 85-064L  
"AS-BUILTS" 0-3-90

NOTE: Concrete encasement is required  
if cover over pipe is less than 3.0'.

NOTE: A.B. = "AS-BUILT"

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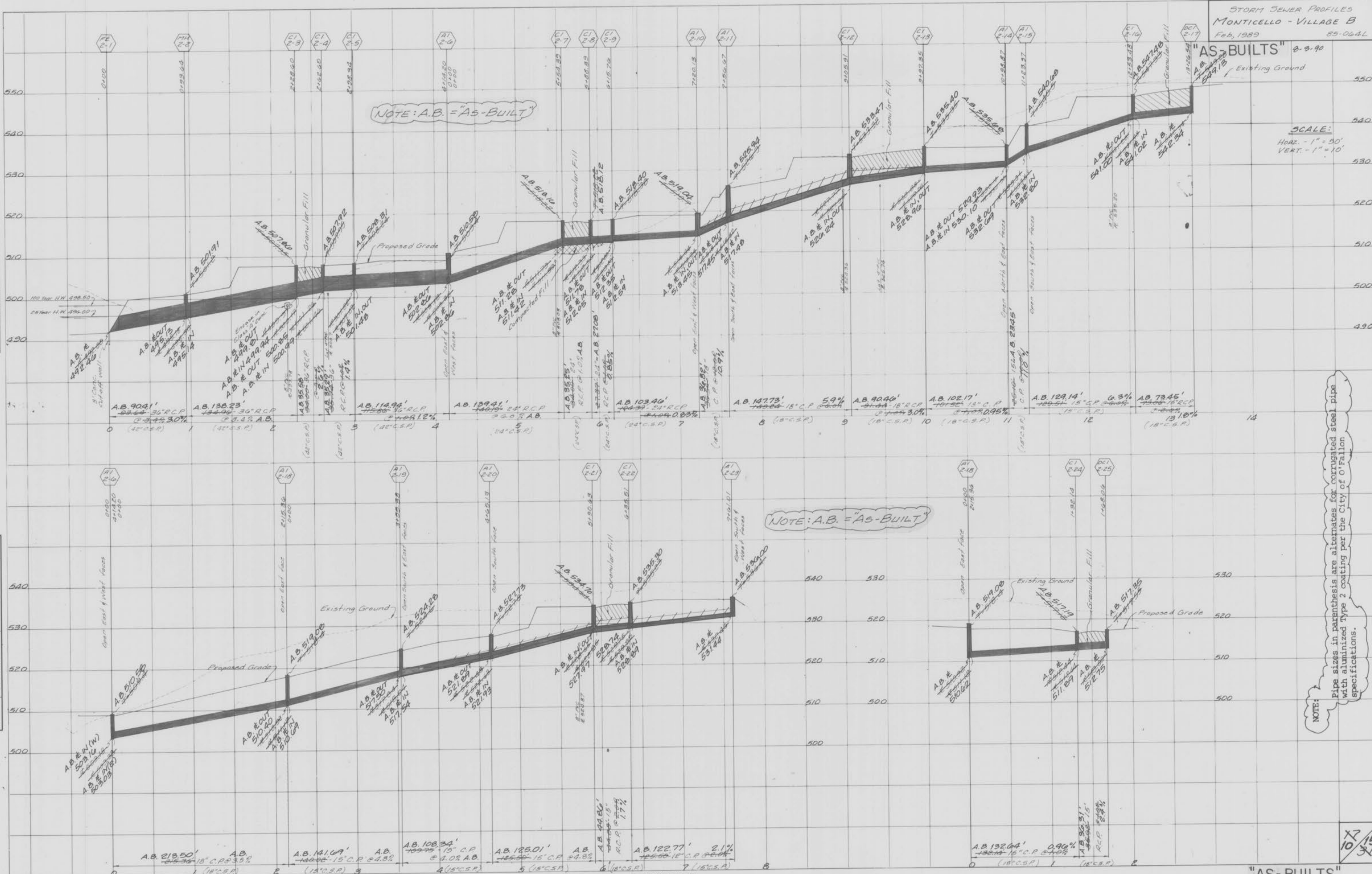
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NOTE: Pipe sizes in parenthesis are alternates for corrugated steel pipe with aluminumized Type 2 coating per the City of O'Fallon specifications.

17/15  
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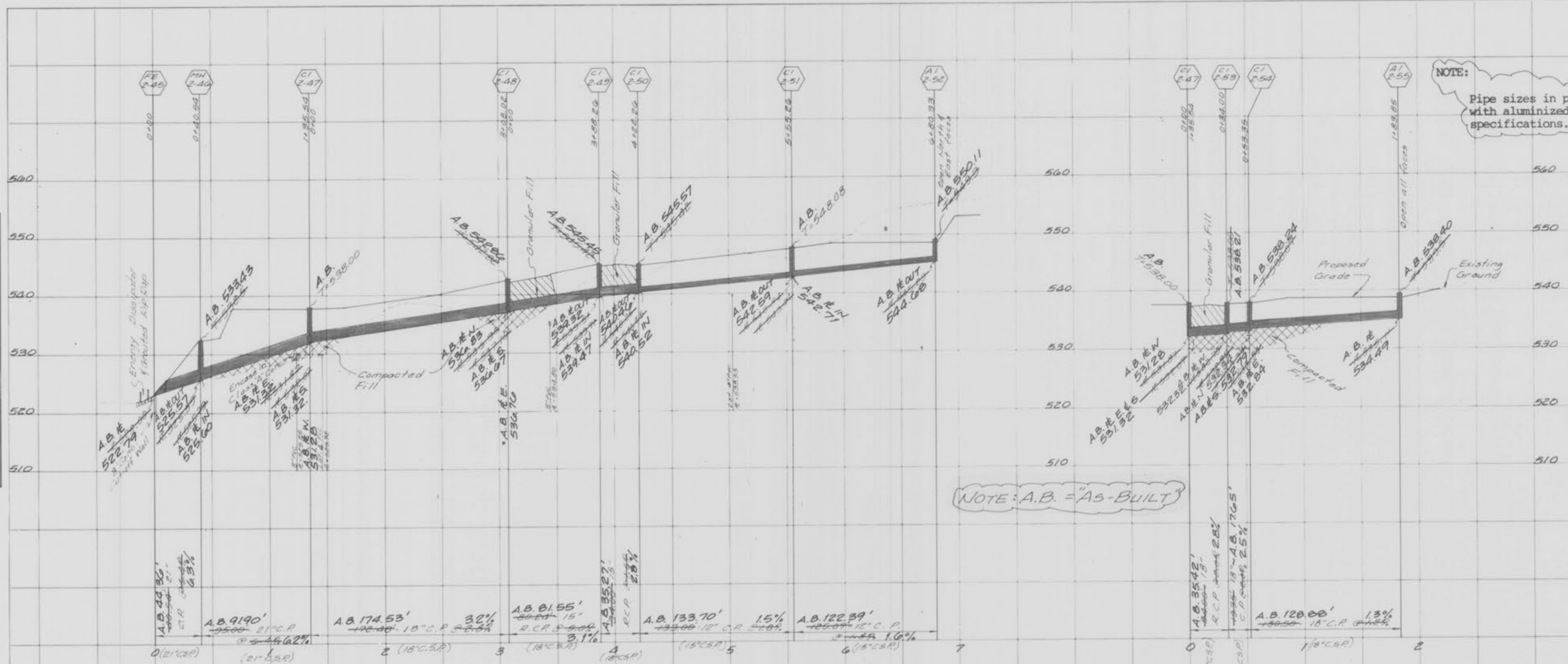


SCALE:  
 HORIZ. - 1" = 50'  
 VERT. - 1" = 10'

STORM SEWER PROFILES  
 MONTICELLO - VILLAGE B  
 Feb, 1983 85-064L

"AS-BUILTS" 8-3-90

NOTE:  
 Pipe sizes in parenthesis are alternates for corrugated steel pipe with aluminized Type 2 coating per the City of O'Fallon specifications.



NOTE: A.B. = "AS-BUILT"

**DETENTION CALCULATIONS (25 Year)**  
 Developed Q to dry pond 25.57 ac x 3.04 = 77.12 cfs.  
 Undeveloped Q to dry pond 25.87 ac x 2.15 = 55.62 cfs.  
 Differential Runoff = 22.57 cfs.  
 Storage Required 22.57 cfs x 1800 (30 min) = 40,626 cu ft.  
 Storage of dry pond @ elev 514.50 = 40,213 cu ft.  
 (see sheet 20 of 31)

**OVERFLOW CALCULATIONS**  
 Capacity of a 18" C.P. as an orifice.  
 $Q = C_d A \sqrt{2gh}$  Constant  $C_d = 0.6$   
 $Q = 0.6 \times 1.767 \times \sqrt{2 \times 32.2 \times 7.75}$  Area  $A = 1.767$   
 $Q = 1.06 \times \sqrt{1233.1}$  Gravity  $g = 32.2$   
 $Q = 1.06 \times 35.1$  Avg. Head  $h = 7.75$   
 $Q = 37.21$  cfs.

Q to dry pond 16.14 ac x 3.04 = 49.07 cfs.  
 Out Overflow structure = 23.68 cfs.  
 Storage Required = 25.39 cfs.  
 25.39 cfs x 1800 (30 min) = 45,702 cu ft.

**EMERGENCY SPILLWAY (grouted Rip Rap)**  
 Q to dry pond 16.14 ac x 4.17 (100 year) = 67.30 cfs.  
  
 $Q = a \times \frac{1.486}{n} \times R^{4/3} \times S^{1/2}$   $a = 16.75$   
 $Q = 14.75 \times \frac{1.486}{0.0225} \times 0.618 \times 0.10$   $n = 35.10$   
 $Q = 67.81$  cfs.  $R = 3.75 \times 0.49 R^{3/2} = 0.10$   
 $R = \frac{67.81}{3.75 \times 0.49} R^{3/2} = 0.10$   
 $R = 0.0225$

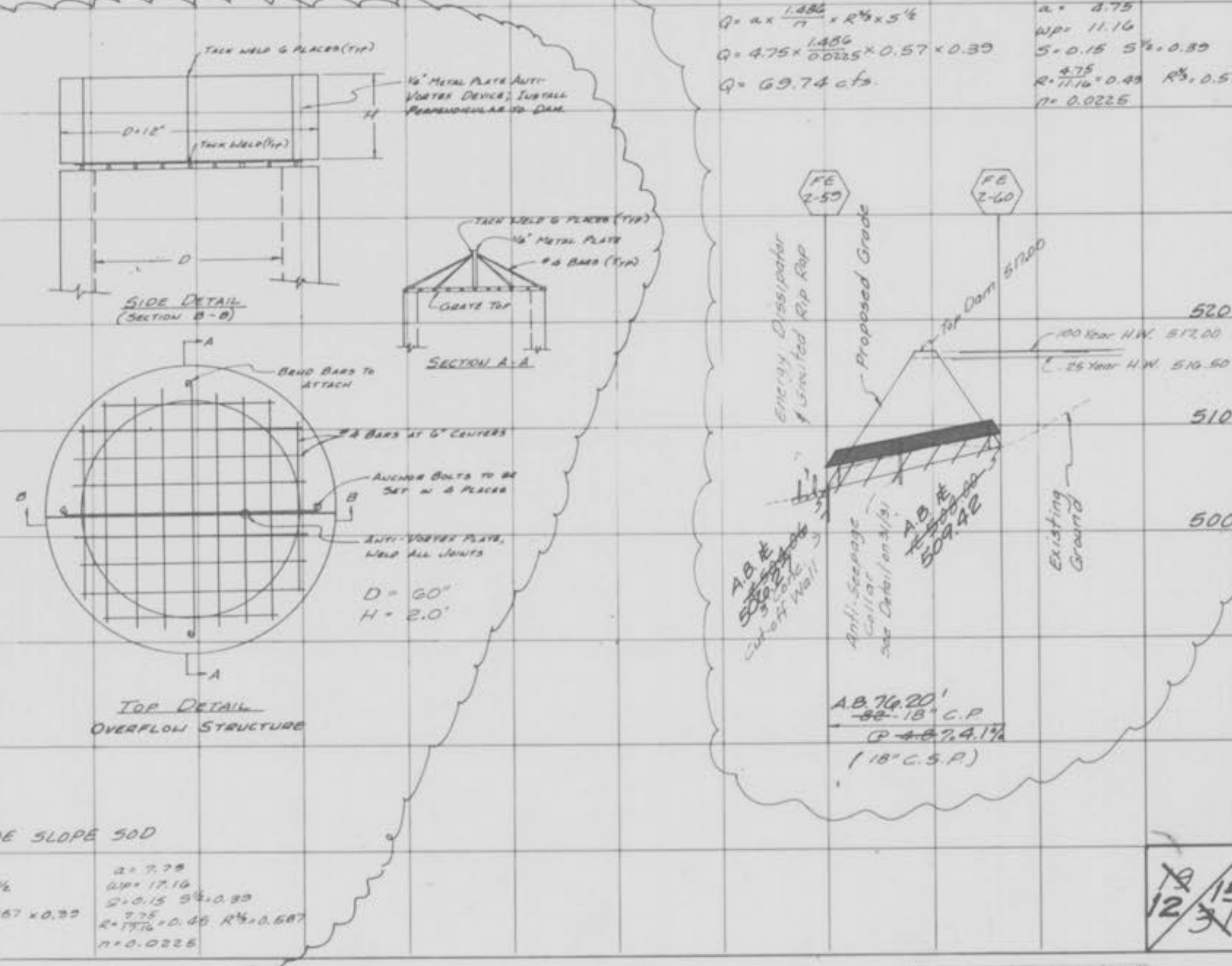
**SIDE SLOPE (grouted Rip Rap)**  
  
 $Q = a \times \frac{1.486}{n} \times R^{4/3} \times S^{1/2}$   $a = 3.75$   
 $Q = 4.75 \times \frac{1.486}{0.0225} \times 0.57 \times 0.30$   $n = 11.10$   
 $Q = 69.74$  cfs.  $R = 3.75 \times 0.49 R^{3/2} = 0.30$   
 $R = \frac{69.74}{3.75 \times 0.49} R^{3/2} = 0.30$   
 $R = 0.0225$

**DETENTION CALCULATIONS (20 Year)**  
 Developed Q to dry pond 73.42 ac x 3.04 = 223.20 cfs.  
 Undeveloped Q to dry pond 73.42 ac x 2.15 = 157.85 cfs.  
 Differential Runoff = 65.35 cfs.  
 Storage Required 65.35 cfs x 1800 (30 min) = 117,630 cu ft.  
 Storage of dry pond @ elev 496.00 = 119,378 cu ft.  
 Storage of dry pond @ elev 498.50 = 198,759 cu ft.  
 (see sheet 20 of 31)

**OVERFLOW STRUCTURE CALCULATIONS**  
 Capacity of a 1.0' high x 1.00' wide opening in a 60" Manhole as an orifice.  
 $Q = C_d A \sqrt{2gh}$  Constant  $C_d = 0.6$   
 $Q = 0.6 \times 1.06 \times \sqrt{2 \times 32.2 \times 7.2}$  Area  $A = 1.06$   
 $Q = 0.64 \times \sqrt{1233.6}$  Gravity  $g = 32.2$   
 $Q = 0.64 \times 35.1$  Avg. Head  $h = 7.20$   
 $Q = 22.66$  cfs.

Q to dry Pond 26.39 ac x 3.04 = 80.23 cfs.  
 Out Overflow structure = 13.78 cfs.  
 Storage Required = 66.45 cfs.  
 66.45 cfs x 1800 (30 min) = 119,610 cu ft.  
 Head on top 60" Manhole to handle 80.23 cfs.  
 $Q = C L H^{3/2}$  Constant  $C = 3.0$   
 $80.23 = 3 \times 18.71 \times H^{3/2}$  Length  $L = 18.71$   
 $H^{3/2} = \frac{80.23}{56.13} = 1.43$  Quantity  $Q = 80.23$   
 $H = 1.43$

**EMERGENCY SPILLWAY (500)**  
 Q to dry pond 26.39 ac x 4.17 (100 year) = 110.05 cfs.  
 110.05 cfs x 1800 (30 min) = 198,090 cu ft.  
  
 $Q = a \times \frac{1.486}{n} \times R^{4/3} \times S^{1/2}$   $a = 22.55$   
 $Q = 22.55 \times \frac{1.486}{0.0225} \times 0.158 \times 0.10$   $n = 34.42$   
 $Q = 117.18$  cfs.  $R = 3.75 \times 0.49 R^{3/2} = 0.10$   
 $R = \frac{117.18}{3.75 \times 0.49} R^{3/2} = 0.10$   
 $R = 0.0225$



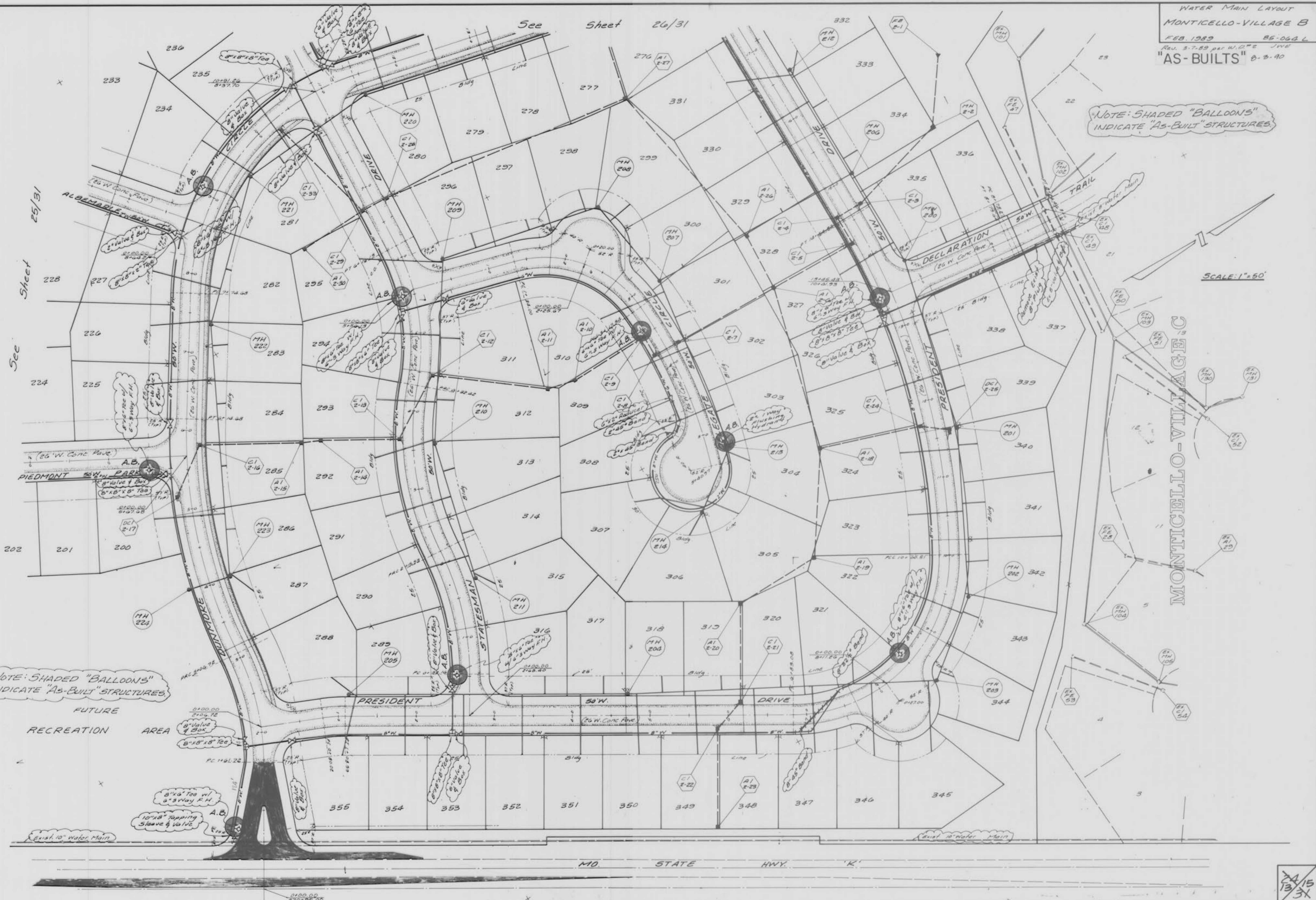
"AS-BUILTS" 10/15/83

FINAL SURVEY BY DATE  
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ORIGINAL SURVEY BY DATE  
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NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.

SCALE: 1"=50'

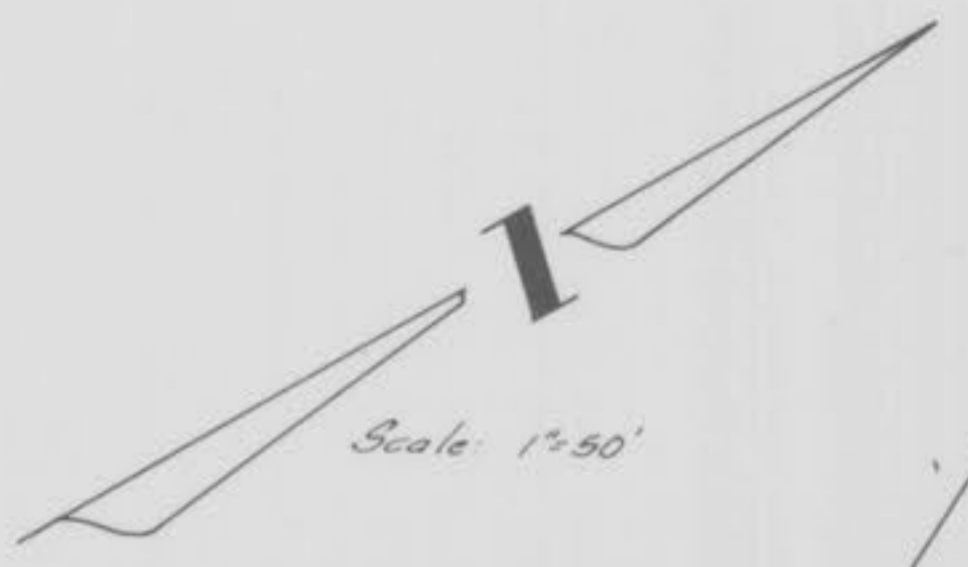


NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.

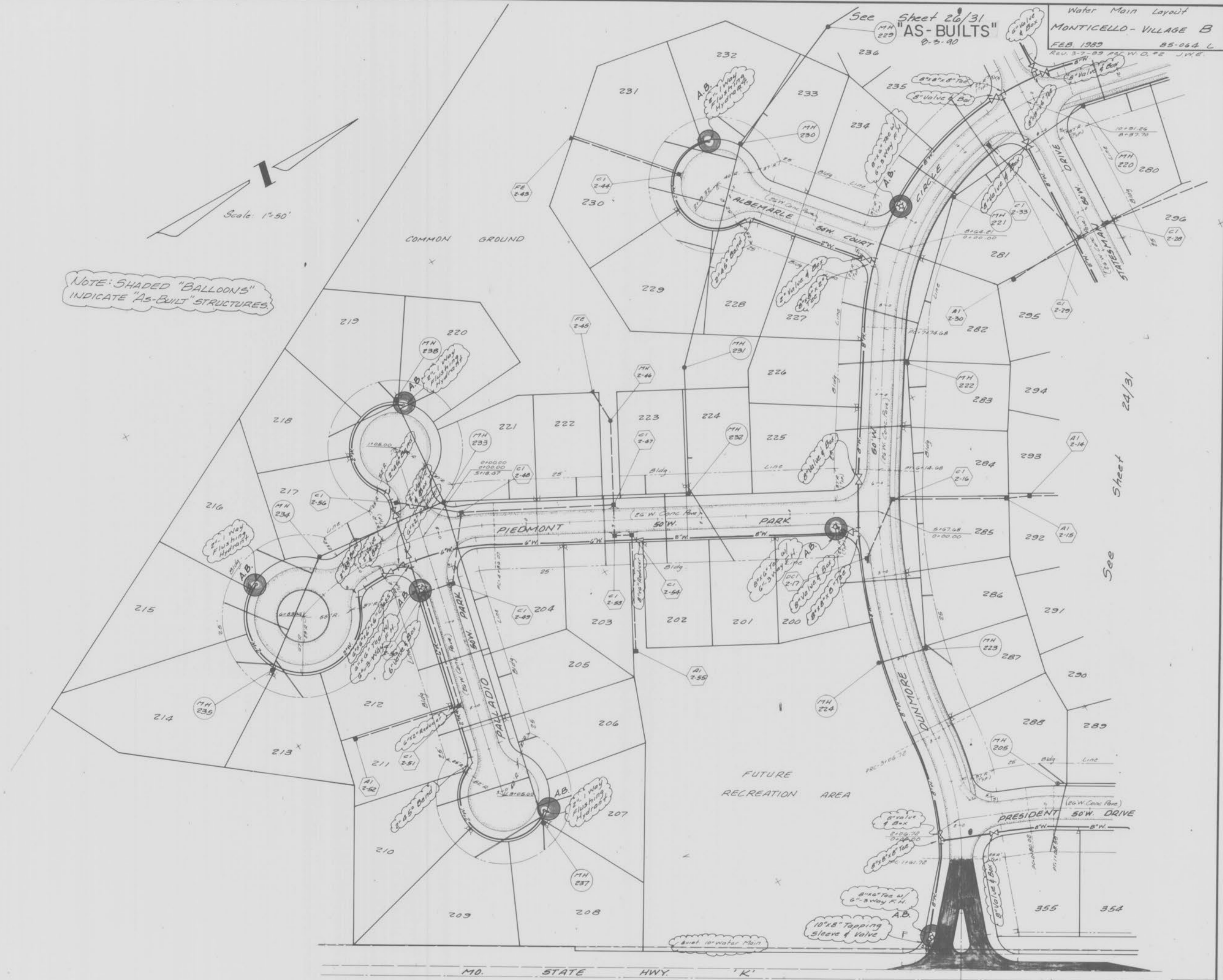
FUTURE RECREATION AREA

24/15  
13/31

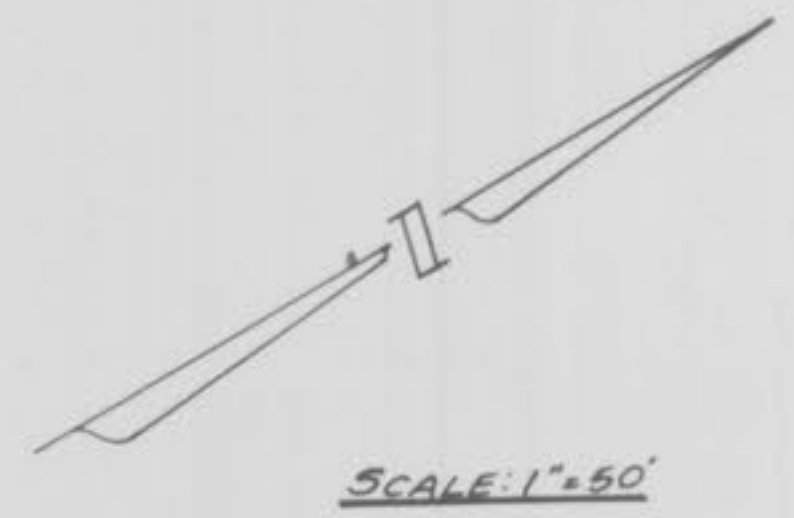
See Sheet 26/31  
 "AS-BUILTS"  
 9-5-90



NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES



See Sheet 24/31



Prop. N/F Black, Michael & Rita

NOTE: SHADED "BALLOONS" INDICATE "AS-BUILT" STRUCTURES.



MONTICELLO-VILLAGE C

20/15  
15/3