

"AS-BUILTS"  
**TWIN  
 CHIMNEYS**

PART OF  
**COACH LINE VILLAGE - A**  
 IMPROVEMENT PLANS

PREPARED FOR:

**J.L. MASON OF MISSOURI, INC.**

1819 CLARKSON ROAD  
 Suite 200  
 CHESTERFIELD, MISSOURI 63017  
 (314)-532-1100

CIVIL ENGINEER:

**PICKETT RAY & SILVER**

333 Mid Rivers Mall Drive  
 St. Peters, Mo. 63376  
 441-1211 278-1211

Rev 1-30-90 #16 PER CLIENTS (OFFICE STREET SCENE)  
 Rev 5-18-89 #15 PER CLIENTS (OFFICE STREET SCENE)  
 Rev 11-22-88 #14 (ADDED NEW OUTLINE OF HOUSE & DRIVEWAY)  
 Rev 11-18-88 #13 PER VIC EXAMINATION - WATER LAPAINT  
 Rev 10-28-88 #12 (Per B.S.A. Comments)  
 Rev 9-28-88 #11 (Per Dunaway Creek Sewer Comments)  
 Rev 7-14-88 #10 (Sht 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14)  
 Rev 9-18-88 #11 (Sht 3 Addresses & Village Name)

This is to certify to City of O'Fallon  
 that these "As-Built" ~~survey~~ plans are  
 based on actual field surveys conducted  
 during March, 1990 and the results are  
 shown here on.

by Pickett Ray & Silver

*Delmar F. Vincent*  
 Delmar F. Vincent  
 MO R.L.S. No 1869

12/27/90  
 Date

ENGINEERS AUTHENTICATION  
 The responsibility for professional engineering liability on the  
 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 involved in the project  
 and specifically excludes revisions after this date unless  
 re-audited.

PICKETT RAY & SILVER, INC.

*RAY PICKETT*  
 12/27/90  
 E-14586

Signature Date

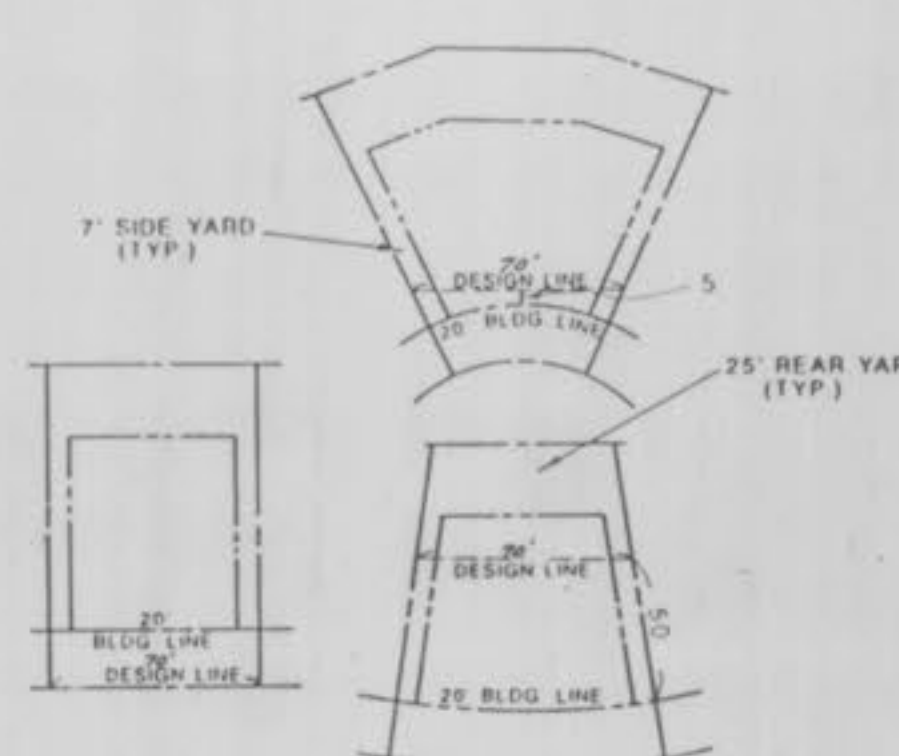
<b>PICKETT RAY &amp; SILVER</b>	
Civil Engineers Planners Land Surveyors	333 Mid Rivers Mall Dr St. Peters, MO 63376 441-1211 278-1211
PART OF COACH LINE VILLAGE A	
"AS-BUILTS" 4/11/90, DWID 12/27/90, DWID	
DRAWN J.C.S.O. DATE 8.22.88	1/4
CHECKED J.C.S.O. DATE	
FIELD 375 D	PROJECT # 26-164 JOB ORDER # 1112
ROOM	

10/10/90

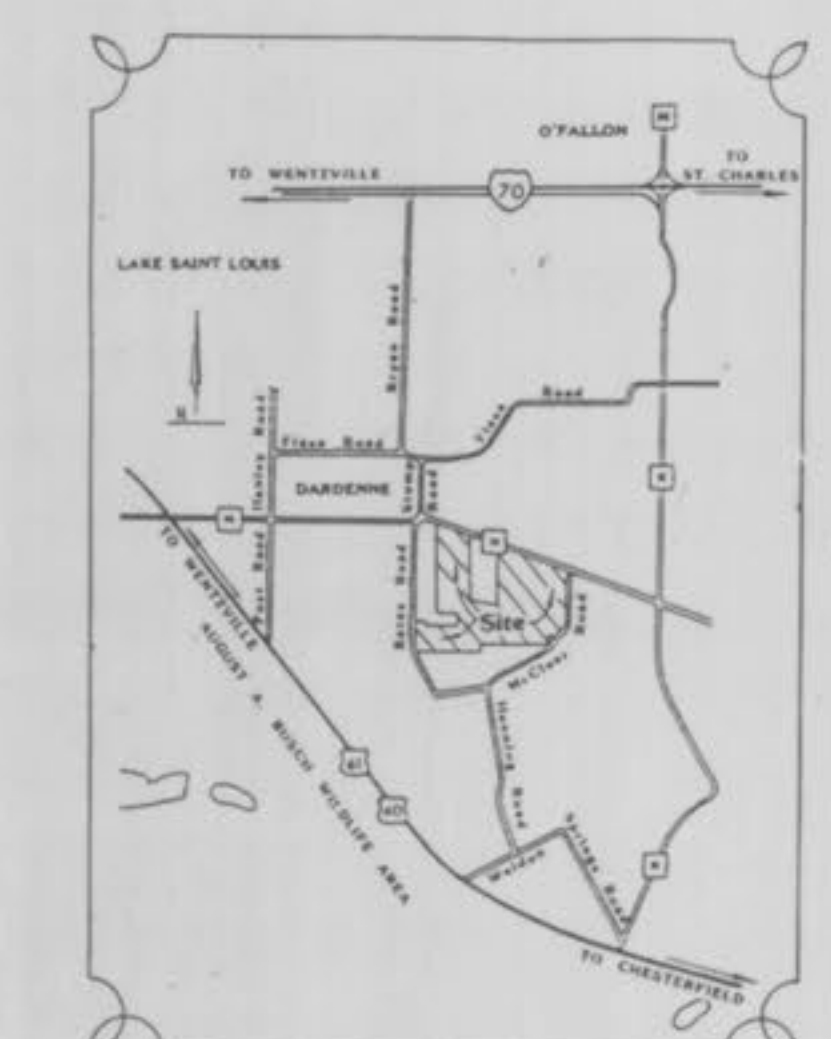


GENERAL NOTES

- 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.
- The existing underground utilities shown herein were plotted from available information and do not necessarily reflect the actual existence, nonexistence, size, type, number, or location of these or other utilities. The general contractor shall be responsible for verifying the actual location of all underground utilities, shown or not shown, and shall be located in the field prior to any grading, excavation, or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.
- All filled places in public right-of-way (State, County or City roads) shall be compacted to 90% of maximum density as determined by the "Standard Proctor Test A.A.S.H.T.O. T-99", Method C (A.S.T.M. D-698) unless otherwise specified by local governing authority specifications, or by soils report for this project. All test shall be verified by the inspecting soils engineer.
- All filled places under buildings, proposed storm and sanitary 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.T.O. T-180 Compaction Test" (A.S.T.M. D-1557) unless otherwise specified by local governing authority specifications, or by soils report for this project. All tests shall be verified by the inspecting soils engineer.
- All trench backfills under paved areas shall be granular backfill, and shall be compacted to 90% of maximum density as determined by the "Modified A.A.S.H.T.O. T-180 compaction test," (A.S.T.M. D-1557). All trench backfills may be earth material free of large clods or stones) and will be water jetted.
- No area shall be cleared without permission of the developer.
- All grades shall be within 0.2 feet more or less of those shown on the grading plan.
- No slope shall be greater than 3:1 and shall be either sodded or seeded and mulched.
- Siltation control devices shall be as shown on plans, and approved by the local governing authority. Additional siltation control, if required, will be placed at the direction of the soils engineer on site and the local governing authority prior to placement.
- Grading operations on this project shall comply with the soils report by Geotechnology, Inc. dated July 31, 1987.
- 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.
- Polyvinyl chloride (PVC) sanitary sewer pipe shall meet the following requirements: A.S.T.M. D-3034 SDR-35, with wall thickness compression joint A.S.T.M. D-3212. An appropriate waterstop as approved by the sewer district shall be installed between PVC pipe and masonry (concrete and brick) structure.
- The minimum vertical distance from the low point of the basement or slab floor to the flowline of a sanitary sewer at the corresponding house or building connection shall not be less than the diameter of the main line sanitary sewer plus a vertical distance not less than two and one half feet (2-1/2").
- All P.V.C. sanitary sewer pipe to have crushed stone bedding uniformly graded between 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 7/10 of the pipe diameter above the bottom of the pipe.
- All sanitary sewer service shall be a minimum of 4" diameter for single-family developments.
- Storm sewers 18" diameter or smaller shall be A.S.T.M. C-14, unless otherwise shown on plans.
- Storm sewers 21" diameter or larger shall be A.S.T.M. C-76, Class II, unless otherwise shown on plans.
- All storm sewer pipe under pavement, regardless of size, shall be reinforced concrete pipe (A.S.T.M. C-76, Class III) unless noted otherwise on the plans.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M36, A.A.S.H.T.O. See plans for gauge.
- All manhole and inlet tops shall be built to the elevations shown on these plans. If no top elevation is shown, it will be the responsibility of the contractor to contact the engineer for such information prior to construction. 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.
- All standard street curb inlets to have front of inlet 2 feet behind curb.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- 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.
- All P.V.C. water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- All water lines shall be laid at least 10 feet horizontally, from any sanitary sewer, storm sewer, or manhole. Whenever water lines must cross sanitary sewers, laterals or storm drains the water lines shall be laid at such an elevation that the bottom of the water line is 18 inches above the top of the drain or sewer. A full length of water pipe shall be centered over the sewer line to be crossed so that the joints will be equally distant from the sewer and as remote therefrom as possible. This vertical separation shall be maintained for that portion of the water line located within 10 feet, horizontally, of any sewer or drain it crosses.
- Water lines, valves, sleeves, meters and etc. shall meet all specifications and installation requirements of the local governing authority.
- All cast iron pipe for water mains shall conform to A.W.W.A. specifications 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.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All streets within the public right-of-way must meet specifications and installation requirements of the City of O'Fallon.
- Hazard markers will consist of three (3) Standard Specifications, "Manual on Uniform Traffic Control Devices", and 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.
- The City of O'Fallon, shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- All sanitary manholes shall be waterpiped in accordance with the Department of Municipal Resources Specification No. 10-CBR-8100 (1)(2) and in accordance with local governing agency.



LOT DESIGN CRITERIA



- This Tract is Served By Or Located In:
- CENTRAL ELECTRIC POWER COOPERATIVE - TRANSMISSION LINE  
Contact - Mr. Donald Shaw: phone 1-634-2454
  - CULVER ELECTRIC POWER COOPERATIVE - SECONDARY POWER SOURCE  
Contact - Mr. Dan Brown: phone 441-7410
  - UNION ELECTRIC COMPANY - PRIMARY POWER SOURCE  
Contact - Mr. Ralph Crank, Jr.: phone 327-6203
  - CONTINENTAL TELEPHONE COMPANY  
Contact - Mr. Jeff Heger: phone 1-327-3054
  - DUCKERTY CREEK SEWER DISTRICT  
Contact - Mr. Barry Salth: phone 441-1244
  - ST. CHARLES COUNTY WATER DISTRICT NO. 2  
Contact - Mr. Vic Kappelmann: phone 239-3480
  - O'FALLON FIRE PROTECTION DISTRICT  
Contact - Mr. Dave House: phone 1-272-3493
  - ST. CHARLES GAS COMPANY  
Contact - Mr. Jim Casbron-Residential: phone 1-723-0495  
Contact - Mr. Gene Bohler-Commercial: phone 1-723-0495

U.S.G.S. BENCHMARK  
U.S.G.S. BENCHMARK:  
Elevation = 667.596  
Orf triangulation Sta., 3.5 mi. SW. of O'Fallon, 0.5 mi. NE. of Dardenne Church, 492 ft. NW. of dwelling on land belonging to Ben Orf, 131 ft. NW. of barn, 33 ft. N. of pond, in concrete post; U.S.C. & G.S. standard disk stamped "Orf 1931".  
NOTE: To convert from project datum benchmarks to U.S.G.S. datum benchmarks, subtract 0.52 feet from all elevations shown.

PROJECT BENCHMARK

TWIN CHIMNEYS  
Key Sheet

August 22, 1988 86-164H

Index

Sheet	Description
1	Cover Sheet
2	Key Sheet
3	Site Plans
4	Water Plans
5	Grading Plans
6-7	Street Profiles
X 4	Sanitary Sewer Profiles
9	Storm Sewer Profiles
10	Drainage Area Map
11	Siltation Control Plans
12-16	Construction Details

Legend

●	Sanitary Sewer (Proposed)	C.I.	Curb Inlet
○	Sanitary Sewer (Existing)	D.C.I.	Double Curb Inlet
■	Storm Sewer (Proposed)	G.I.	Grate Inlet
□	Storm Sewer (Existing)	A.I.	Area Inlet
— 8" —	Water Line & Size	D.A.I.	Double Area Inlet
+	Tee & Valve	C.C.	Concrete Collar
⊙	Hydrant	F.E.	Flared End Section
—	Cap	E.P.	End Pipe
18	Lot or Building Number	E.D.	Energy Dissipator
-x-	Existing Fence Line	M.H.	Manhole
~	Existing Tree Line	C.P.	Concrete Pipe
4 1/2	Street Sign	R.C.P.	Reinforced Concrete Pipe
◇	Light Standard	C.M.P.	Corrugated Metal Pipe
- - -	Existing Contour	C.I.P.	Cast Iron Pipe
- - -	Proposed Contour	P.V.C.	Polyvinyl Chloride
■	Grouted Rip-Rap	V.C.P.	Vitrified Clay Pipe
T	End of Lateral	C.O.	Clean Out
■	Asphalt Pavement	V.T.	Vent Trap
■	Concrete Pavement		
○	Storm/Sanitary Structure		
⊙	Test Hole		
○	Power Pole		

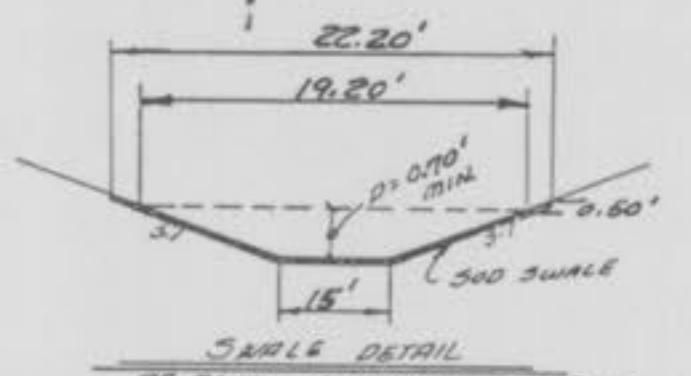


# TWIN CHIMNEYS Site Plan

August 22, 1988 86-164H

REV 9-18-88 UT (Addresses)  
REV 10-28-88 JT  
REV 11-10-88 PFC UC EXPANDED - WATER  
REV 5-18-89 PFC CLIENT  
REV 1-30-90 FOR CLIENT

## CHURCH SITE "M"

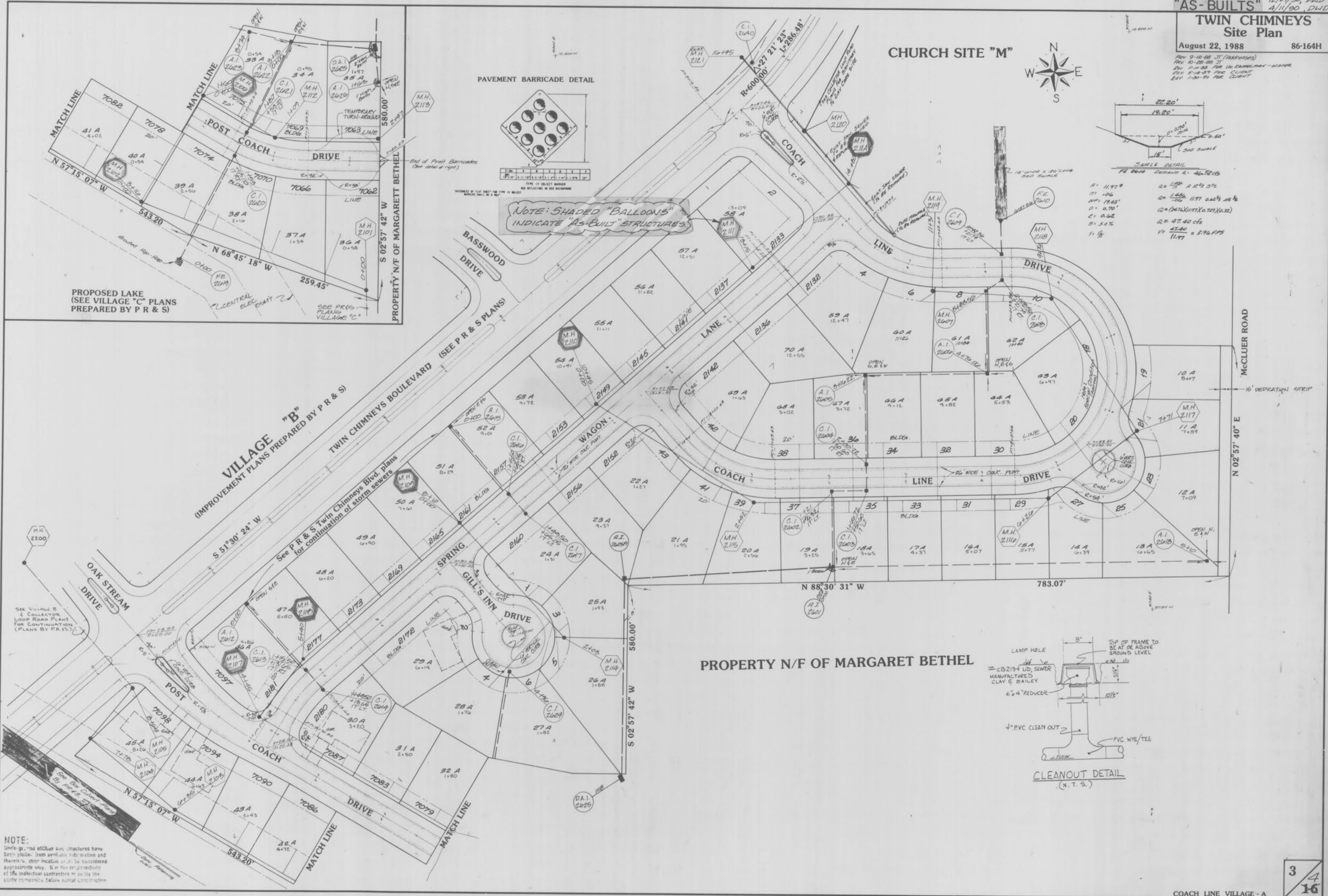


R1	11.97'
R2	11.97'
R3	11.97'
R4	11.97'
R5	11.97'
R6	11.97'
R7	11.97'
R8	11.97'
R9	11.97'
R10	11.97'
R11	11.97'
R12	11.97'
R13	11.97'
R14	11.97'
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R16	11.97'
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R42	11.97'
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R91	11.97'
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R93	11.97'
R94	11.97'
R95	11.97'
R96	11.97'
R97	11.97'
R98	11.97'
R99	11.97'
R100	11.97'

### PAVEMENT BARRICADE DETAIL



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

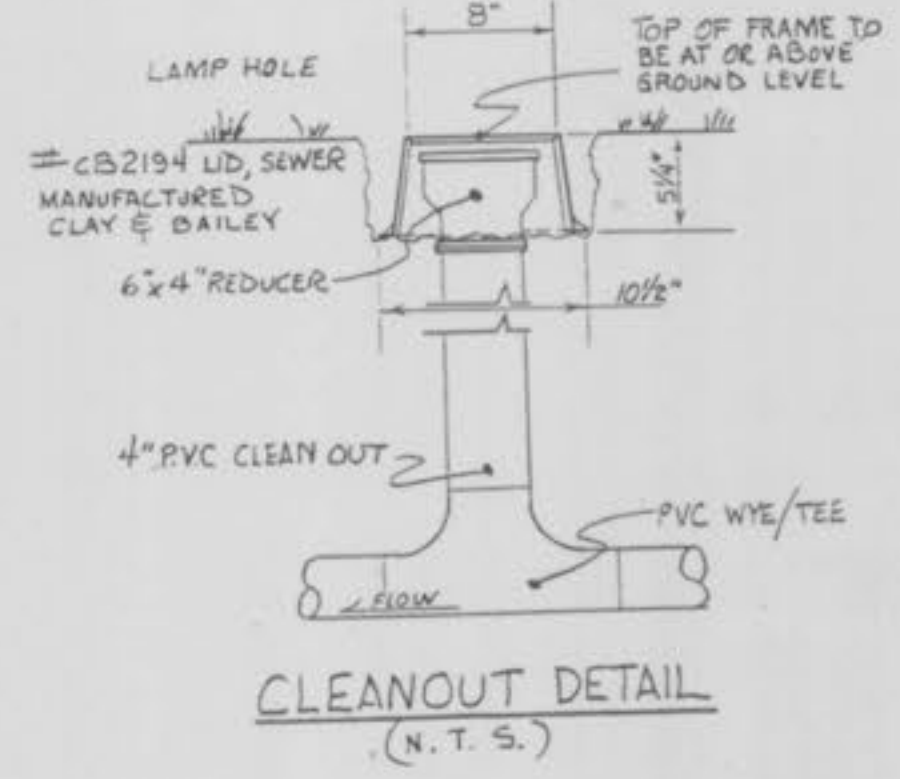


PROPOSED LAKE (SEE VILLAGE "C" PLANS PREPARED BY P R & S)

VILLAGE "B" IMPROVEMENT PLANS PREPARED BY P R & S

SEE VILLAGE B & COLLECTOR LOOP ROAD PLANS FOR CONTINUATION (PLANS BY P R & S)

NOTE: Utility, gas, and other structures have been shown from available field notes and therefor, their location or depth is considered approximate only. It is the responsibility of the individual contractor to verify the utility companies before actual construction.





FINAL SURVEY PLOTTED  
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
NOTE BOOK NO. \_\_\_\_\_  
TEMPLATE NO. \_\_\_\_\_  
AREAS CHECKED: \_\_\_\_\_

ORIGINAL SURVEY PLOTTED  
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
NOTE BOOK NO. \_\_\_\_\_  
TEMPLATE NO. \_\_\_\_\_  
AREAS CHECKED: \_\_\_\_\_

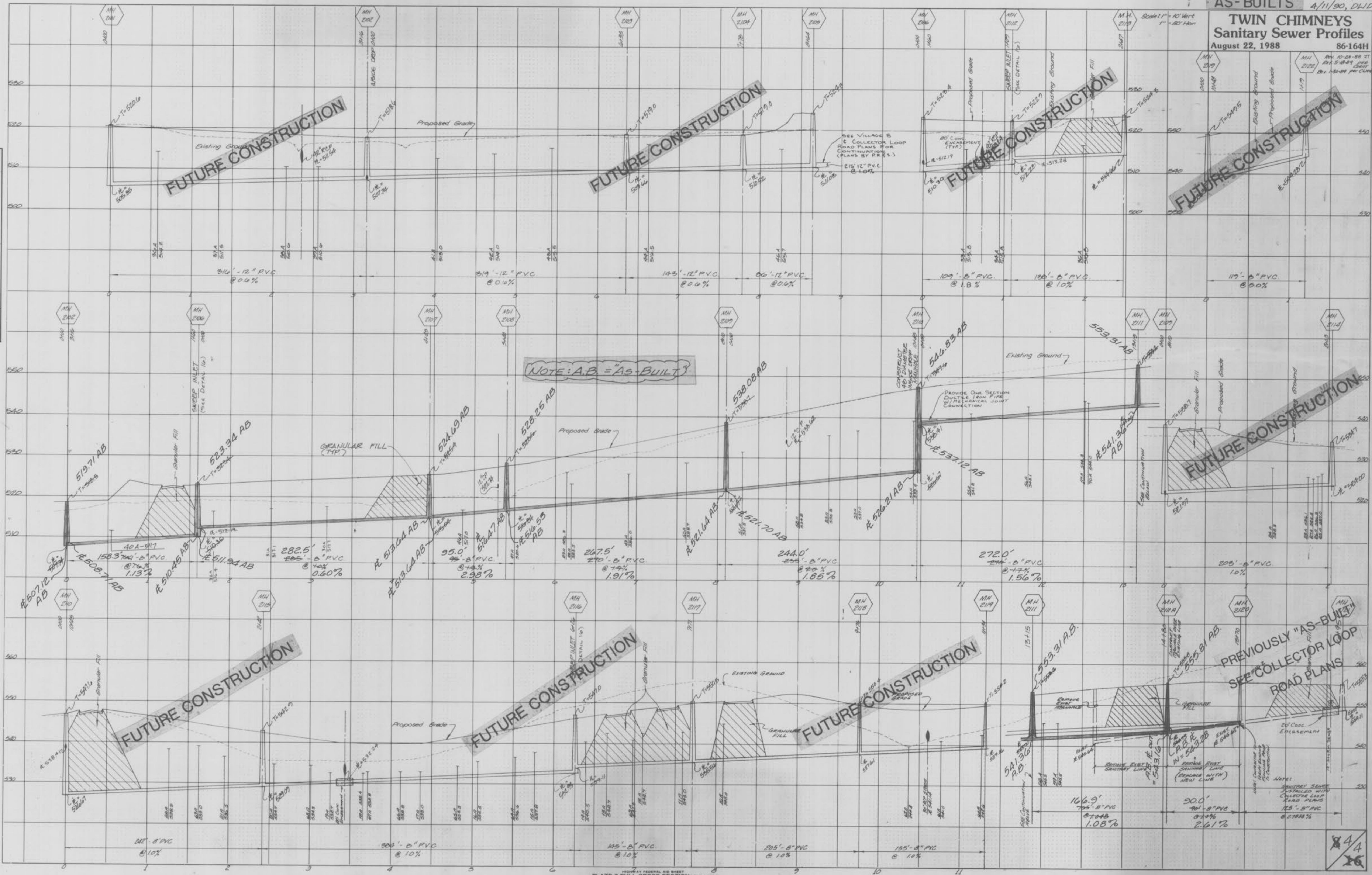


PLATE 3-FULL CROSS SECTION LINE & DOT  
PRINTED IN U.S.A.