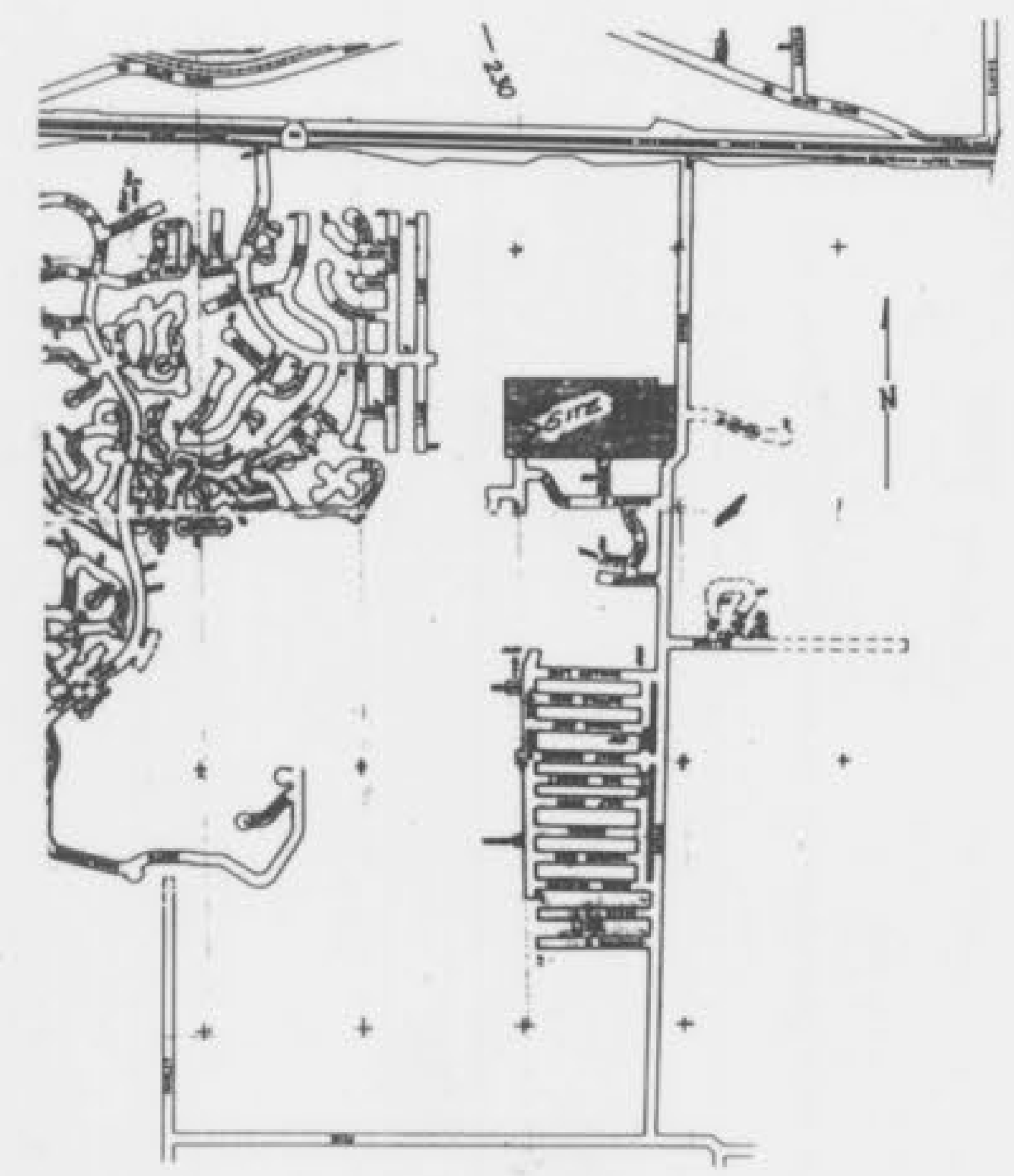
"AS-BUILTS"
BRYAN VALLEY

A TRACT OF LAND BEING PART OF
U.S. SURVEY 1780, T.47 N., R.2 & 3 E.,
ST. CHARLES COUNTY, MISSOURI

IMPROVEMENT PLANS
168 LOTS

LOCATION MAP



CITY OF O'FALLON GENERAL NOTES

1. *Gas, water and other underground utilities shall not conflict with the depth or horizontal locations 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 in the plans.*
7. *Corrugated metal pipe shall conform to the standard specifications for corruoated culvert pipe M-36, A.A.S.H.O.*
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 95% 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 grades 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 not less than two and one-half feet (2-1/2').*
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 1" and 1/4" size. This bedding shall extend from 6" below the pipe to 12" 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 reest at the completion of grading.*
26. *All streets must meet the specifications and installation requirements of the City of O'Fallon.*
27. *All sanitary manholes top shall be set 0.2' higher than the proposed ground except in pavement areas.*
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 or Neenah R-1736 or Deeter 1315 or approved equal.*
31. *A drop of 0.2 feet is required through each sanitary manhole.*
32. *The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.*
33. *Brick shall not be used on manholes.*
34. ~~*Sewer contractor shall maintain 24" vertical separation between all storm sewers and the sludge force main. Contractor shall be responsible for verifying separation prior to storm sewer installation.*~~
35. *Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coat-tar pitch, or a coating meeting American Society for Testing and Materials (ASTM) D-41. Asphalt shall conform to the requirements of ASTM D 449. Coal-tar pitch shall conform to the requirements of ASTM D-450. Coating shall be 31 mils thickness.*
36. *This site is served by:*
    FIRE - O'FALLON FIRE DISTRICT
    SCHOOL - WENTZVILLE SCHOOL DISTRICT
    TELEPHONE - GTE
    GAS - ST. CHARLES GAS CO.
    ELECTRIC - UNION ELECTRIC CO.
    WATER - CITY OF O'FALLON
    SANITARY SEWERS - CITY OF O'FALLON

DRAWING INDEX

Sheet	Description
1	COVER SHEET
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~~16~~	~~WATER PLAN~~
~~17-18~~	~~DRAINAGE AREA MAPS~~
~~19-23~~	~~CONSTRUCTION DETAILS~~

LEGEND

Sanitary Sewer (Prposed)	Sanitary Structure	R.C.P. Reinforced Concrete Pipe
Sanitary Sewer (Existing)	Storm Structure	C.M.P. Corrugated Metal Pipe
Storm Sewer (Proposed)	Test Hole	C.I.P. Cast Iron Pipe
Storm Sewer (Existing)	Power Pole	P.V.C. Polyvinyl Chloride
Water Line & Size	Light Standard	V.C.P. Vitrified Clay Pipe
Existing water line	Double Water Meter Setting	
Tee & Valve	Single Water Meter Setting	C.O. Clean Out
Hydrant	C.I. Curb Inlet	V.T. Vent Trap
Cap	S.C.I. Skewed Curb Inlet	T.B.R. To Be Removed
18 Lot or Building Number	D.C.I Double Curb Inlet	T.B.R.&R To Be Removed & Relocated
Existing Fence Line	G.I. Grate Inlet	T.B.P. To Be Protected
Existing Tree Line	A.I. Area Inlet	T.B.A. To Be Abandoned
Street Sign	D.A.I. Double Area Inlet	B.C. Base Of Curb
Existing Contour	C.C. Concrete Collar	T.C. Top Of Curb
Proposed Contour	F.E. Flared End Section	T.W. Top Of Wall
Grouted Rip-Rap	E.P. End Pipe	B.W. Base Of Wall
End of Lateral	E.D. Energy Dissipator	(TYP) Typical
Asphalt Pavement	M.H. Manhole	U.N.O. Unless Noted Otherwise
Concrete Pavement	C.P. Concrete Pipe	U.I.P. Use In Place

This is to certify to City of O'Fallon that these "As-Built" San./Storm plans are based on actual field surveys conducted during June, 1995 and the results are shown here on.

by Pickett Ray & Silver

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

Date

SITE BENCHMARK

RR SPIKE, 0.5' HIGH, IN SOUTH FACE PP WEST SIDE BRYAN RD., 1st. POLE NORTH OF S.E. CORNER OF SITE.
ELEV. 599.45

REVISIONS

3-08-95 CITY OF O'FALLON (3/8/95 COMMENTS) G.S.
2.28.95 City of O'Fallon Tdy/LSS
2.8.95 City of O'Fallon LSS
8-25-94 Sheet 1 of 23 Tdy
8-16-94 San. Sewer-Bore Tdy
11-08-95 City Comments DG

PICKETT RAY & SILVER

Civil Engineers
Planners
Land Surveyors

333 Mid Rivers Mall Dr.
St. Peters, MO 63376
397-1211 FAX 397-1104

Celebrating 25 Years of Service

ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in the project and specifically includes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC.

STATE OF MISSOURI HAROLD J. EARTCH E-17751 REGISTERED PROFESSIONAL ENGINEER

Signature Date

DEVELOPER

PREPARED FOR:

BRYAN VALLEY PARTNERSHIP

7283 HIGHWAY N
O'FALLON, MISSOURI 63366
(314) 281-3763

DRAWN TD/RY	DATE 7-15-94		
CHECKED	DATE		
FIELD BOOK	PROJECT # 77-088	JOB ORDER #	1 / 5 ~~23~~

"AS-BUILTS"

BRYAN VALLEY
FLAT PLAN

JULY 1994 — 77-088-A

REV. 8-16-94 T.J.D. BORE
REV. 9-13-94 T.J.D. ADDRESSES
REV. 2-08-95 L.S.S. D.C.I.s & EX. SAN CALLOUT
REV. 3-08-95 G.S. (PLAT 1) (PLAT 2)
REV. 11-08-95 D.G. 36' PVMT, CITY COMMENTS

SCALE: 1" = 100'

1. ALL STREETS HAVE 50' WIDE R.O.W.
2. ALL PAVEMENT IS 26' W. CONCRETE WITH ROLLED CURB.
3. TYPICAL INTERSECTION: 25' R.O.W. RADIUS 37'PAVEMENT RADIUS
4. TYPICAL CUL DE SACS: 52' R.O.W. RADIUS 40'PAVEMENT RADIUS
5. 36' WIDE PAVEMENT REQUIRES 7" OF CONCRETE PAVEMENT

164 — TYPICAL LOT #
1+32 — TYPICAL SANITARY SEWER LATERAL WYE LOCATION
271 — TYPICAL STREET ADDRESS

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

"AS-BUILTS"

2/5 ~~2/3~~

BRYAN VALLEY
SANITARY SEWER PROFILES
July, 1994
77-188 A
SCALE
HORIZ: 1" = 50'
VERT: 1" = 10'
7.12.95 As-Builts
NOTE: A.B. = "As-Built"
PROPOSED GRADE
EXISTING GROUND
CONCRETE CRADLE (TYP.)
GRANULAR FILL (TYP.)
Conc. Encasement (Typ.)
Conc. Cradle (Typ.)
Inside Drop MH
Sweep Invert
Bore Pit
Bore detail - see sheet 11 of 23.
8" PVC
FINAL SURVEY
ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
TEMPLATE
AREAS
AREAS CHECKED
NO.
DATE
BY
PLATE 3-FULL CROSS SECTION
"AS-BUILTS"


BRYAN VALLEY
STORM SEWER PROFILES
July, 1994
77-088A
7-12-95 As-Builts
SCALE
HORIZ: 1" = 50'
VERT: 1" = 10'
Rev. AB-12, AI 5-Tdg 11-17-95
NOTE: A.B. = "As-Built"
Note: The 24" Storm Line As-Built Rests on The 8" P.V.C. San. Line. Conc. Support Under The 8" P.V.C. Was Provided
EXISTING GROUND
PROPOSED GRADE
GRANULAR FILL (TYP.)
Grouted Rip-Rap w/ Energy Dissipater See Detail Sht. 15
3' Conc. Cut-off Wall
A.B. 77.81' - 27" RCP/CSP
A.B. 44.01' @ 2.67%
A.B. 30.61' @ 2.87%
A.B. 104.98' - 21" CP/CSP
A.B. 188.56' - 18" CP/CSP
A.B. 155.29' - 18" CP/CSP
A.B. 356.79' - 15" CP/CSP @ 3.3%
A.B. 252.47' - 12" CP/15" CSP @ 5.1%
A.B. 97.34' - 12" CP/15" CSP @ 0.87%
A.B. 36.30' 1.3%
A.B. 215.86' - 12" CP/15" CSP @ 5.2%
A.B. 103' - 12" CP/15" CSP @ 4.3%
A.B. 36.0' 15" CSP 2.9%
A.B. 119.0' - 12" CP/CSP @ 1.3%
A.B. 135.05' - 12" CP/CSP @ 1.2%
A.B. 103.91' - 12" CP/CSP @ 1.1%
3' COVER MIN.
NOTE: A.B. = "As-Built"
Note: Corrugated Steel Pipe Was Installed
A.B. 75.67' - 21" RCP/CSP @ 1.9%
A.B. 204.90' - 18" CP/CSP @ 4.7%
A.B. 182.06' - 18" CP/CSP @ 1.6%
A.B. 90.40' - 15" CP/CSP @ 1.0%
A.B. 154.60' - 12" CP/CSP @ 9.6%
A.B. 301.18' - 12" CP/CSP @ 7.7%
A.B. 101.05' - 12" CP/CSP @ 0.98%
12/4/5/23

"AS-BUILTS"


BRYAN VALLEY
STORM SEWER PROFILES
July, 1994
77-088A
SCALE
HORIZ: 1" = 50'
VERT: 1" = 10'
Rev. 7-28-94 Tbj, A1 tops
NOTE: A.B. = "As-Built"
PROPOSED GRADE
EXISTING GROUND
Compacted Fill
Granular Fill (Typ)
TOP OF DAM 598.50
3' CONC CUT-OFF WALL
CONC SWALE SEE DETAIL
A.B. 118.53' - 12" CP/CSP
75.00' - 48" RCP @ 1.0%
118.07' - 15" CP/CSP
108.02' - 12" CP/CSP @ 1.0%
97.48' - 15" CP/CSP @ 5.97%
140.53' - 36" RCP/CSP @ 4.2%
108.27' - 36" RCP/CSP @ 1.0%
238.85' - 27" RCP/CSP @ 2.55%
118.89' - 21" RCP/CSP @ 3.8%
118.18' - 18" RCP/CSP @ 2.4%
147.94' - 15" CP/CSP @ 3.7%
65.78' - 12" CP/CSP @ 1.0%
103.48' - 12" CP/CSP @ 4.6%
193.88' - 18" RCP/ 18" CSP @ 1.6%
192.85' - 12" CP/CSP @ 1.0%
192.95' - 15" CP/CSP @ 5.0%
Note: Corrugated Steel Pipe Was Installed

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"AS-BUILTS"