

# BRIARCHASE ADDITION

A Tract of Land Being a Part of U.S. Survey 931,  
in Township 46 North, Range 2 East,  
City of O'Fallon, Missouri

## IMPROVEMENT PLANS

### GRADING & CONSTRUCTION NOTES:

- All construction methods, materials and practices shall conform to all current applicable specifications of the governing agencies.
- Any destruction of existing improvements or features shall be repaired or replaced in kind by the contractor and shall remain the contractor's responsibility.
- 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.
- It shall be distinctly understood that failure to specifically mention any work which would normally be required to complete the project shall not relieve the contractor of his responsibility to perform such work.
- Contractor shall keep road clear of mud and debris.
- All filled areas to be compacted to a minimum of 90 percent of maximum dry density as determined by the Modified AASHTO Compaction Test, ASTM D1557-75, or as specified by the soils engineer.
- It shall be the grading contractor's responsibility to notify the soils engineer prior to work in progress and to comply with recommendations by the soils engineer with regards to compaction, surface preparation, and placement of fill.
- It shall be the grading contractor's responsibility to provide the location of any existing underground utilities by notifying utility companies prior to grading operations.
- The grading contractor shall cut or fill to subgrade elevation under all areas to be paved. (Subgrade is figured at pavement depth). Rough grading is to be completed within  $\pm 0.20'$ .
- All drainage swales shall be sodded or seeded and mulched to prevent erosion.
- All stumps, limbs, and other debris are to be removed from the site unless a suitable dump area is approved in advance by the owner after consulting with the soils engineer if burning is approved.
- Subgrade is included in the total bid yardage. (Subgrade is figured at pavement depth).
- Slopes to receive fill which are steeper than 5:1 should be benched prior to placement of fill.
- If fill is to be placed in areas of soft soil, particularly in draws, drainage channels and other low lying areas, the soft soil shall be excavated until firm soil is encountered.
- All grading shall comply with the soils engineer's recommendations.
- Permanent grass is required at completion of grading or a 30 day suspension of grading will be imposed.
- A drainage easement will be granted to the City of O'Fallon for any creeks to remain in the development on the record plat.
- Siltation control will be installed prior to any grading or construction operations and shall be inspected and maintained as necessary to insure their proper function until sufficient vegetation has been established to prevent erosion.
- The installation and maintenance of all siltation controls shall be the responsibility of the developer.
- Additional siltation control may be required as directed by the local governing authority.
- All grading areas shall be protected from erosion by erosion control devices and/or seeding and mulching as required by the City of O'Fallon.
- All fill placed in proposed roads shall be compacted from the bottom of the fill up to 90 percent maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95 maximum density as determined by the Standard Proctor Test AASHTO T-99. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations.
- Erosion and sediment control structures shall be maintained throughout the construction process.
- The Developer shall provide the City of O'Fallon construction inspectors with soils reports prior to and during site soil testing.
- The contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MoDOT. The Contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MoDOT may at their option direct the Contractor in his methods as deemed fit to protect property and improvements. Any depositing of any silt or mud on new or existing pavement or in new or existing sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MoDOT.
- All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.
- Erosion control shall not be limited to what is shown on the plan. Whatever means necessary shall be taken to prevent siltation and erosion from entering natural streams, adjacent roadways, properties, ditches.
- No graded area shall remain bare for over 6 months without being seeded or mulched.
- No slope shall exceed 3(Horz.):1(Vert.).
- All filled places under proposed storm and sanitary sewer and/or paved areas shall be compacted to 90% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99.
- When deemed necessary, positive steps should be exercised to prevent the soil from damaging adjacent property and silted up all storm drainage systems whether on or off site.
- All low places whether on-site or off-site should be graded to allow drainage by installing temporary ditches.
- Any wells and/or springs which may exist on this property should be located and sealed in a manner acceptable to the City of O'Fallon.
- All trash and debris on-site, either existing or from construction, must be removed and disposed of off-site.
- Debris and foundation material from any existing on-site building or structure which is scheduled to be razed for this development must be disposed of off-site. All existing buildings and fencing is to be removed.
- Soft soils in the bottom and banks of any existing or former pond sites or tributaries should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer location. Dewatering of existing pond shall not exceed 50 GPM.
- Please notify the Director of Public Works for the City of O'Fallon 24 hours prior to the commencement of grading. No building permits will be issued by the City of O'Fallon until construction plans are approved and the final plat recorded.
- The sediment control plan should be implemented before grading begins. This should follow the guidelines in the model sediment and erosion control regulations by St. Charles Soil and Water Conservation District.
- The low sill elevation for any proposed structures adjacent to the flood plain shall be a minimum of 1(one) foot above the 100-year flood elevation.
- All grading adjustments shall be submitted to and receive approval from the City of O'Fallon.
- When utilized temporary siltation ponds/structures shall be completely removed following re-establishment of vegetation. Ponds shall be backfilled, compacted, and graded to provide positive drainage and then seeded and mulched.
- All fill placed in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. Ensure the moisture content of the soil in fill areas is to correspond to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability at the discretion of the City of O'Fallon.
- All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon.

### ESTIMATED CONSTRUCTION SCHEDULE

- CLEARING AND GRUBBING: PRESENT - MAY 2004
- ROUGH GRADING: MAY - JUNE 2004
- CONSTRUCTION OF SEWERS, UTILITIES, ROADS: JUNE - AUGUST 2004
- FINAL GRADING: SEPTEMBER 2004
- LANDSCAPING: SEPTEMBER 2004

### LEGAL DESCRIPTION:

A tract of land being a part of U.S. Survey 931, in Township 46 North, Range 2 East, St. Charles County, Missouri, being the same tract of land described in a deed to John C. and Ruth M. Steinmann and being more particularly described as follows:

Commencing at an old stone, found for the Northeast corner of U.S. Survey 931; thence with the North line of U.S. Survey 931, North 82°24'54" West 1486.70 feet to an iron rod and being the Point of Beginning of the herein described tract of land and also being a point on the Northwest corner of a tract of land described in a deed to Jo Ann Dickherber as recorded in deed Book 1767 Page 1654 of the St. Charles County records; thence with the West line of said Dickherber Tract and its direct prolongation, South 07°40'52" West 3384.96 feet to a found iron rod on the North line of a tract of land described in a deed to John C. Doyle as recorded in deed Book 638 Page 1264 of the St. Charles County records; thence with the North line of said Doyle Tract, North 81°54'03" West 396.90 to a found stone on the East line of a tract of land described in a deed to Adelaide Rhodes and Rhodes Family Farm, Inc., as recorded in deed Book 2617 Page 001 of the St. Charles County records; thence with the East line of said Rhodes Tract, North 07°50'38" East 2661.97 feet to a point on the East line of a tract of land described in a deed to Della A. and Clarence E. Mueller as recorded in deed Book 1703 Page 332 of the St. Charles County records, and from which said point a found iron rod bears South 41°35'44" East 0.06 feet; thence South 82°06'10" East 364.33 feet to a point 25 feet west and perpendicular to the west line of aforesaid Dickherber Tract, from which said point, a found iron rod bears South 39°22'47" East 0.09 feet; thence in a Northerly direction, 25 feet west and parallel to the west line of the said Dickherber Tract, North 07°40'52" East 721.44 feet to a point on the aforesaid North line of U.S. Survey 931, from which said point, a found iron pipe bears North 73°02'10" East 0.89 feet; thence with the said North line of U.S. Survey 931, South 82°24'54" East 25.00 feet to the Point of Beginning and containing 1,064,754 square feet (24.4433 acres), more or less.

### GENERAL NOTES:

- This site is in the following Districts:  
Public Water District No. 2 (Water & Sewer)  
Wentzville Fire Protection District  
Wentzville School District
- This site is in the following Utility Service Areas:  
AT&T Broadband  
Cuivre River Electric Company  
St. Charles County Gas Company  
Centurytel
- Sanitary sewer connections shall be approved by Public Water and Sewer District No. 2 and the City of O'Fallon.
- Storm Water Management shall be designed pursuant to the requirements of City of O'Fallon and shall discharge at an adequate natural discharge point.
- Grading shall be per City of O'Fallon standards.
- Street trees, landscaping and street lights shall be per City of O'Fallon standards.
- The 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. The provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.
- The Source of topographic information is USGS Datum.
- All proposed utilities and sewers shall be covered by easements granted to the appropriate utility companies and municipalities.
- This project is in compliance with Article 26 of the City of O'Fallon's Zoning Code.
- All sidewalks shall be 4' wide minimum and comply with City of O'Fallon ADA Standards.
- This plot is not for record.
- Proposed light standards shall be 16' tall max.
- No known wetlands are on the subject property.
- All future uses on subject property will conform with Article XIII of the Zoning Code.
- All necessary utilities (public or private) will be available, functioning and useable prior to the issuance of any occupancy permits.
- Any septic tanks or leach fields to be removed per St. Charles County requirements.
- If detention basin structure and pipes are being used as a sediment basin, installation of detention structure and pipes are at the developers own risk.
- All lots within the subdivision shall only be accessed via a public right of way. Access to lots may not be permitted via private easements or drives.
- Lot information: min. width at building line - 60', side yard - 5', front yard - 20', rear yard - 15'.
- Driveway locations shall not interfere with the sidewalk accessible ramps.
- All utilities shall be located underground.
- City approval of the construction site plans does not mean single family and two family dwelling units can be constructed on the lots without meeting the building setbacks, as required by the zoning code.
- A 5/8" trash bar shall be provided in all inlets.

### FLOOD PLAIN NOTE:

According to the Flood Insurance Rate Map of the County of St. Charles, Missouri, Unincorporated Areas (Community Panel Number 29183C0220 E Dated August 2, 1996, This property lies entirely within zone X. Zone X is defined as an area outside the 500 year flood hazard, in which base flood elevations have been determined.

### PROJECT BENCHMARK

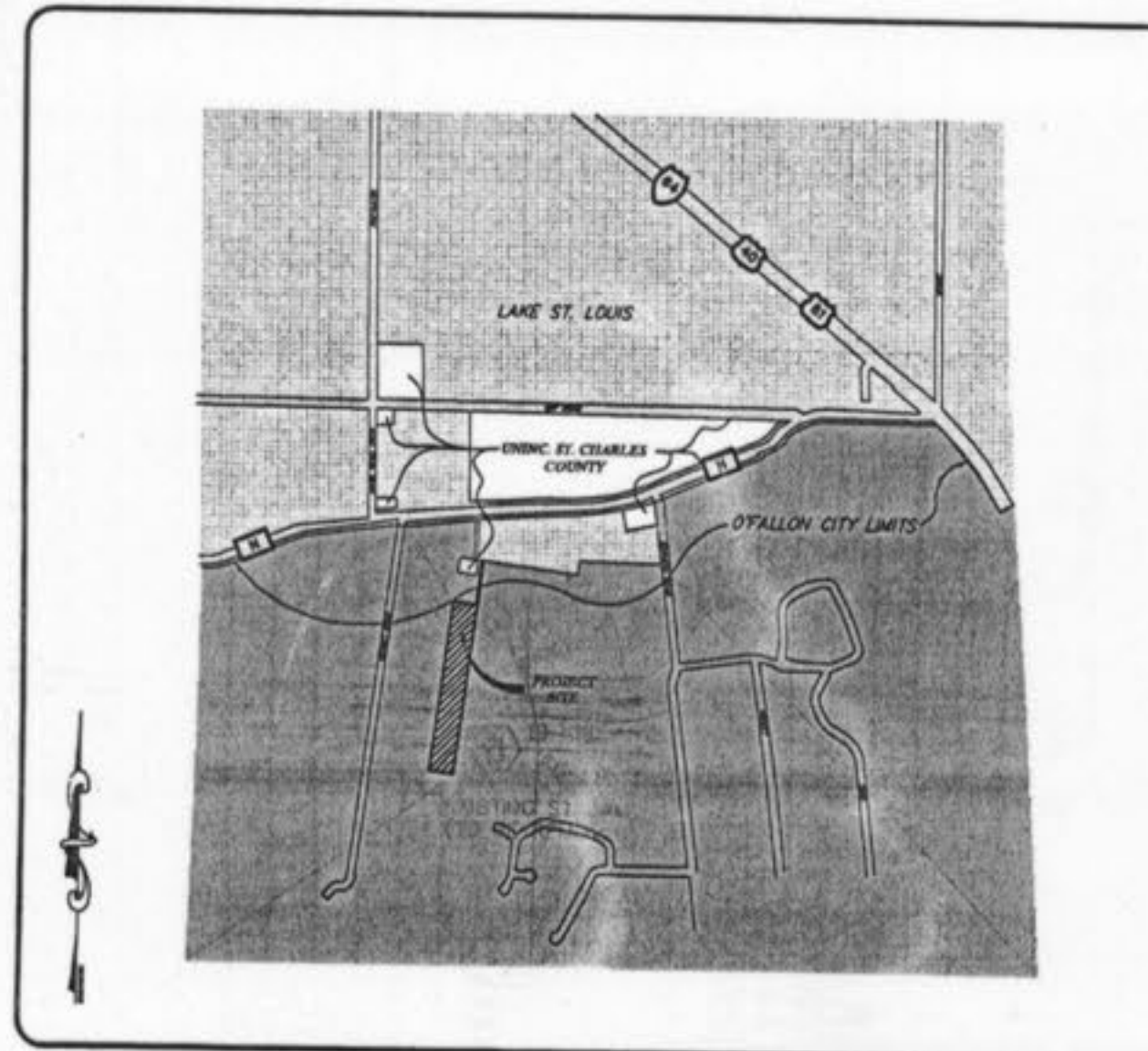
"SQ" cut west end of southern headwall located at the southwest intersection of Sommers Road and State Highway "N"; 36.5' east of Sommers Road and 14' south of centerline of State Highway "N".

Elevation = 607.22

### TREE ORDINANCE

Existing trees = 4.47 acres  
Trees removed = 4.02 acres  
Trees saved = 0.45 acres  
20% of existing trees are required to be saved = 0.89 acres  
Trees required = 15 trees per acre  
Trees to be provided = 15 trees/oc X 0.44 acres = 7 trees  
Trees proposed = 7  
Complied with ordinance

THE UNDERGROUND UTILITIES SHOWN HEREON 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 SAID UTILITIES 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.



LOCATION MAP  
N.T.S.

EXISTING	LEGEND	PROPOSED
542	CONTOURS	(542)
536	SPOT ELEVATIONS	(536)
	CENTER LINE	
	BUILDINGS, ETC.	
	TREE LINE	
	FENCE	
	STORM SEWERS	
	SANITARY SEWERS	
	CATCH BASIN	
	AREA INLET	
	GRATED INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	FLARED END SECTION	
	CLEANOUT	
	LATERAL CONNECTION	
	UTILITY OR POWER POLE	
	FIRE HYDRANT	
	TEST HOLE	
	PAVEMENT	
2" G	GAS MAIN & SIZE	(2" G)
6" W	WATER MAIN & SIZE	(6" W)
T	TELEPHONE	(T)
E	ELECTRIC (U) UNDERGROUND	(E)
OWH	ELECTRIC (O) OVERHEAD	(OWH)
FL	FLOW LINE	FL
TC	TO BE REMOVED	TC
	TOP OF CURB	(TC)
	SWALE	
	LIGHT STANDARD	
	STREET SIGN	
P.S.	PARKING STALLS	P.S.
	YARD LIGHT	

### INDEX OF SHEETS

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WD1	WATER DETAILS
SC1	SILTATION CONTROL DETAILS
CD1-CD2	ST. CHARLES COUNTY DETAILS
CD3-CD6	MSD CONSTRUCTION DETAILS

### AS-BUILT SANITARY AND STORM SEWER FINAL MEASUREMENT PLAN

As of 12-17-04, I certify that the actual sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurements plans. Since the wye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

### THE STERLING COMPANY

By: *[Signature]*  
George J. Over - Vice President  
Mo. Reg. L.S. #2336

ISSUE	REMARKS/DATE
1	04-29-04 FIRST SUBMITTAL
2	06-21-04 REVISED PER CITY OF O'FALLON COMMENTS
3	06-26-04 REVISED PER PASO PER COMMENTS
4	07-20-04 REVISED PER CITY COMMENTS
5	07-26-04 REVISED PER CITY COMMENTS

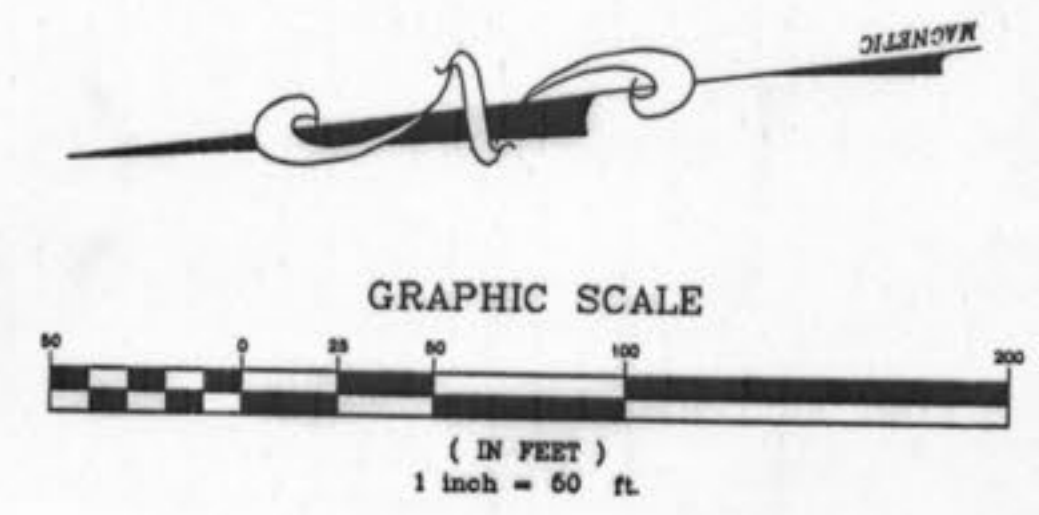
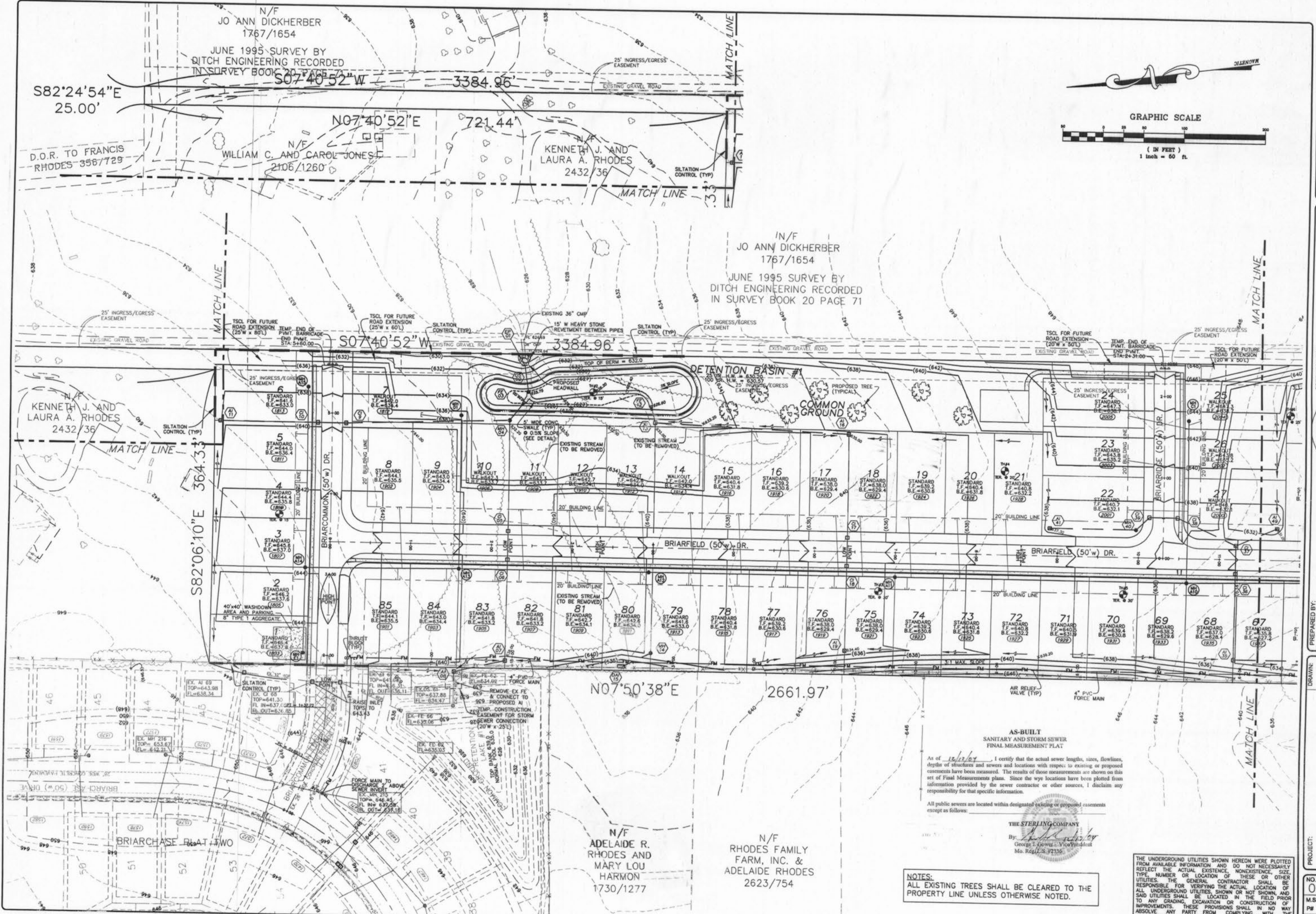
PREPARED FOR:  
**McBride & Son Homes  
Land Development, Inc.**  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 537-2000



THE STERLING COMPANY  
ENGINEERS & SURVEYORS  
5058 N. MISSOURI AVENUE  
ST. LOUIS, MISSOURI 63112  
(314) 487-0440 FAX 487-8844  
E-Mail: Sterling@sterling-eng-surf.com

DRAWN:	DESIGNED:	CHECKED:
PROJECT:	BRIARCHASE ADDITION	COVER SHEET
NO.	02 06 142	SHEET
M.S.D.		1
PH		
NO.	02 06 142	SHEET
M.S.D.		1
PH		





**AS-BUILT  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT**

As of 12/12/04, I certify that the actual sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this Final Measurements plat. Since the eye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
By: *[Signature]*  
George I. Gower - Vice President  
Mo. Reg. No. 17336

**NOTES:**  
ALL EXISTING TREES SHALL BE CLEARED TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

THE UNDERGROUND UTILITIES SHOWN HEREON 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 SAID UTILITIES. SHOWN OR NOT SHOWN, AND 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.

ISSUE	REMARKS/DATE
1	04-29-04 FIRST SUBMITTAL
2	06-21-04 REVISED PER CITY OF ST. LOUIS COMMENTS
3	06-25-04 REVISED PER PMSD #2 COMMENTS
4	07-20-04 REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes, Inc.**  
Land Development, Inc.  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 537-2000

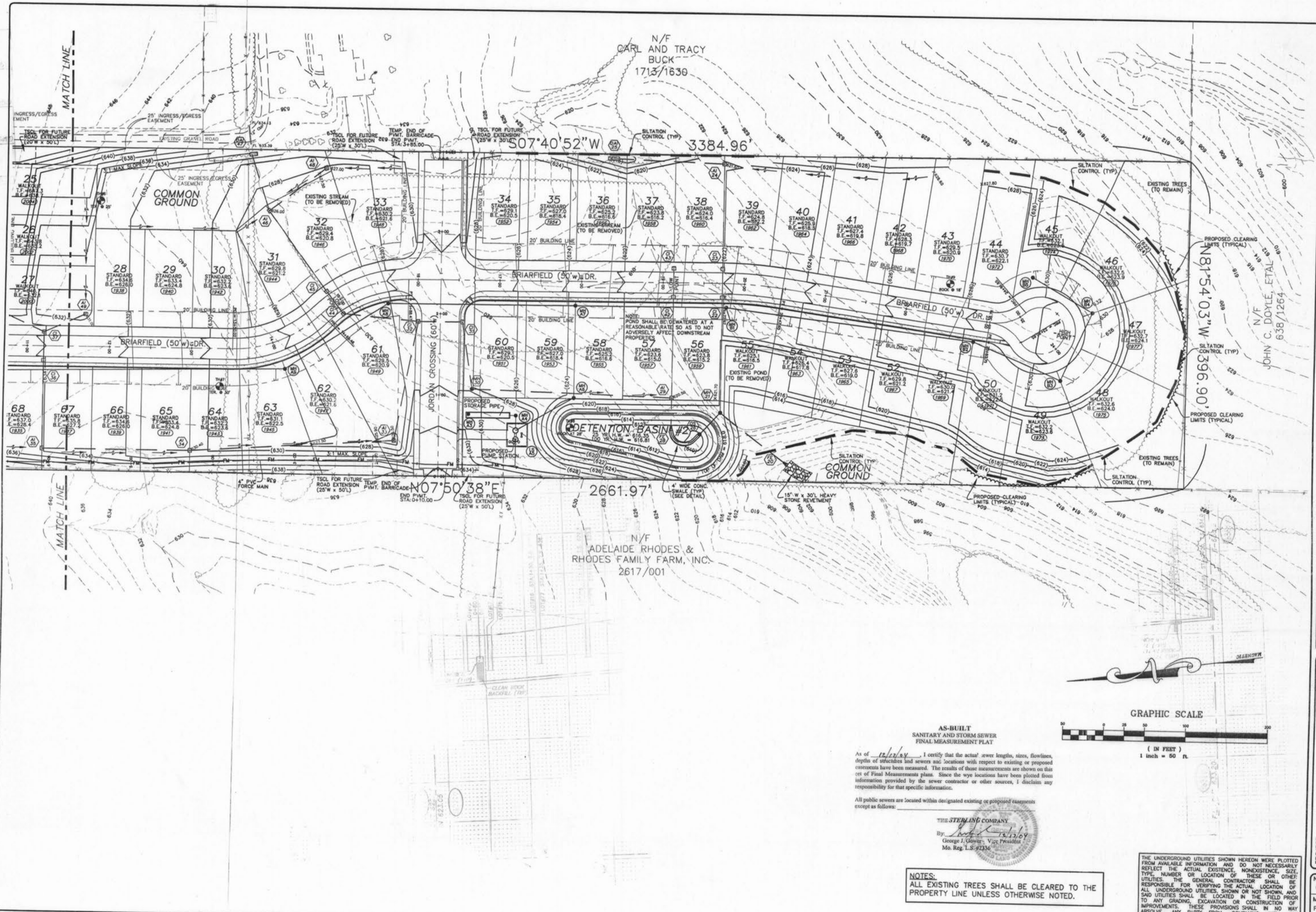


PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
5065 NEW BAY PARKWAY ROAD  
ST. LOUIS, MISSOURI 63112  
(314) 487-0440 FAX 487-2849  
E-Mail: Sterling@sterling-eng.com

PROJECT:	BRIARCHASE ADDITION		
DESIGNED:		CHECKED:	
SHEET TITLE:	GRADING PLAN		

NO.	02	06	142
M.S.D.			SHEET
#	2		OF
			22





**AS-BUILT  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT**

As of 12/12/09, I certify that the actual sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurements plans. Since the wye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE **STERLING** COMPANY  
By: George J. Gower  
George J. Gower - Vice President  
Mo. Reg. L.S.#7236

**NOTES:**  
ALL EXISTING TREES SHALL BE CLEARED TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

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ISSUE	REMARKS/DATE
1	04-29-04 FIRST SUBMITTAL
2	06-21-04 REVISED PER CITY OF ST. LOUIS COMMENTS
3	06-25-04 REVISED PER PMSD #2 COMMENTS
4	07-20-04 REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes  
Land Development, Inc.**  
#1 McBride & Son Center Drive  
Chestertown, Missouri 63005  
(936) 537-2000

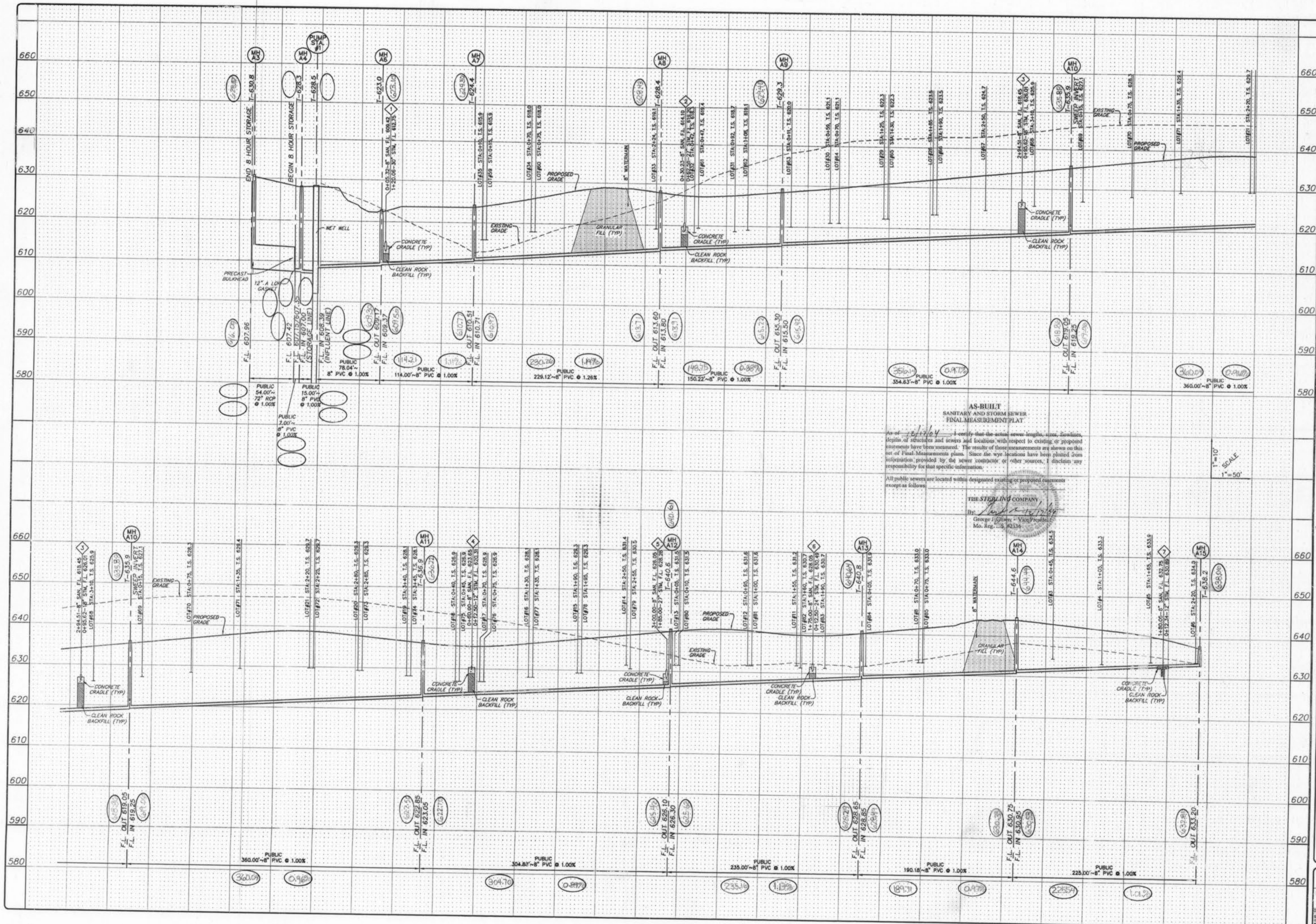


PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
5005 NEW BAUMGARTNER ROAD  
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(314) 487-2440 FAX: 314-487-2445  
E-Mail: Sterling@sterling-eng-survey.com

DRAWN: \_\_\_\_\_  
DESIGNED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
PROJECT: **BRIARCHASE ADDITION**  
SHEET TITLE: **GRADING PLAN**

NO. **02 06 142**  
M.S.D. SHEET **3**  
OF **22**





AS-BUILT  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT

As of 2/17/04, I certify that the actual sewer lengths, size, lineages, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurements plans. Since the wye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
By: George J. Stowers - Vice President  
Mo. Reg. # 3, 92336

ISSUE	REMARKS/DATE
1	04-29-04 FIRST SUBMITTAL
2	06-21-04 REVISED PER CITY OF FALLON COMMENTS
3	06-25-04 REVISED PER PWS&D #2 COMMENTS
4	07-20-04 REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes**  
Land Development, Inc.  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 637-2000

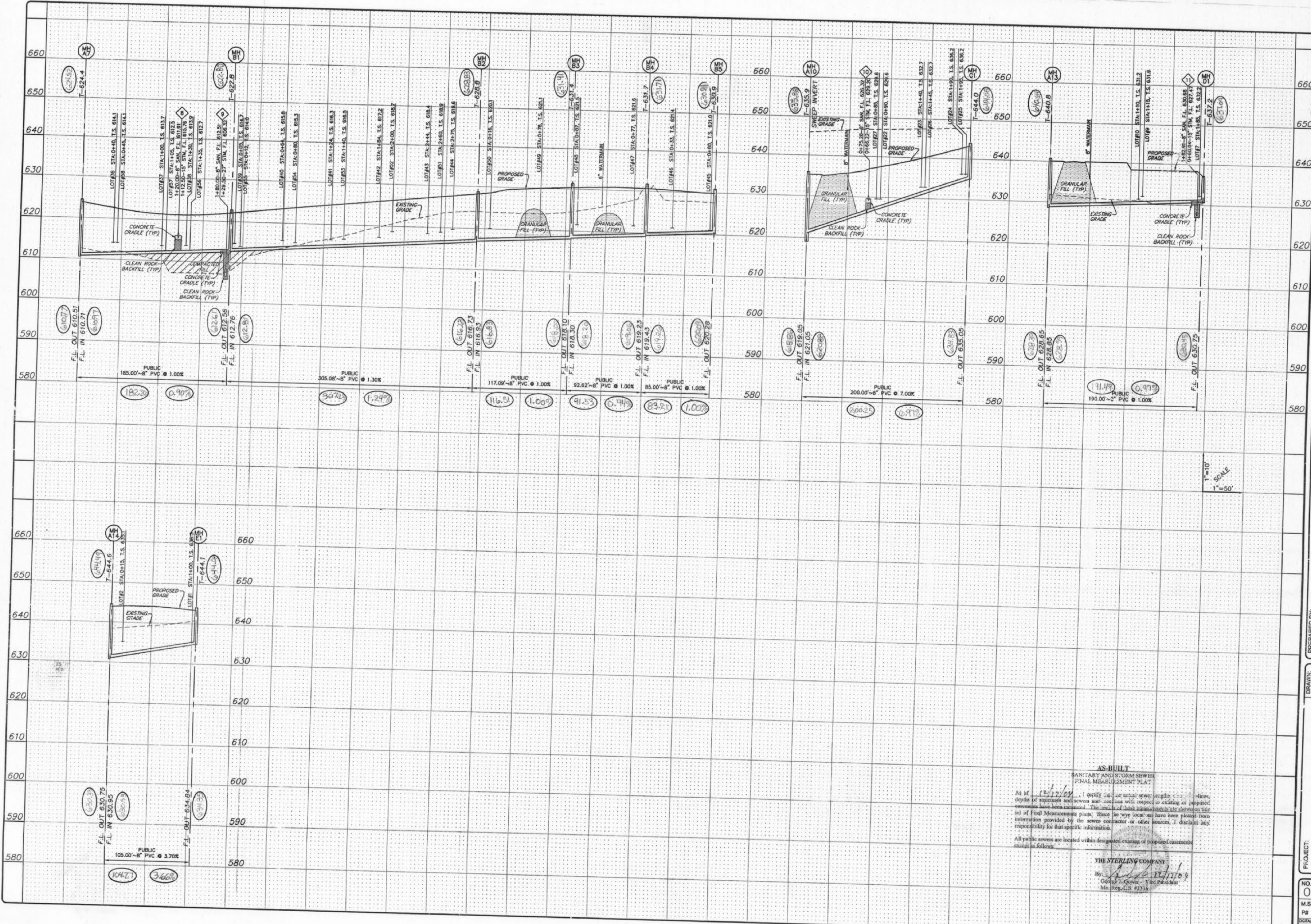


THE STERLING COMPANY  
ENGINEERS & SURVEYORS  
5655 NEW BAUMGARTNER ROAD  
ST. LOUIS, MISSOURI 63123  
(314) 427-0400 FAX (314) 427-0401  
E-Mail: Sterling@sterling-eng-surf.com

PROJECT: **BRIARCHASE ADDITION**  
SHEET TITLE: **SANITARY SEWER PROFILES**

NO	02 06 142
M.S.D.	SHEET
#	8
DATE	22





**AS-BUILT**  
 SANITARY AND STORM SEWER  
 FINAL MEASUREMENT PLAT

As of 12/17/04, I certify that the actual sewer lengths, manhole depths, depth of structures and sewer and manhole wall thicknesses or proposed elevations have been measured. The results of these measurements are shown on this set of Final Measurements plans. Since the measurements have been platted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
 By: George J. Gower - Vice President  
 Mo. Reg. No. 42336

ISSUE REMARKS/DATE

1	04-25-04	FIRST SUBMITTAL
2	06-21-04	REVISED PER CITY OF FALLON COMMENTS
3	06-25-04	REVISED PER PASO PER CITY COMMENTS
4	07-20-04	REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes**  
 Land Development, Inc.  
 #1 McBride & Son Center Drive  
 Chesterfield, Missouri 63005  
 (636) 537-2000



PREPARED BY:  
**THE STERLING COMPANY**  
 ENGINEERS & SURVEYORS  
 5055 NEW BAUMGARTNER ROAD  
 ST. LOUIS, MISSOURI 63128  
 (314) 487-2440 FAX 437-8844  
 E-Mail: Sterling@sterling-eng-sur.com

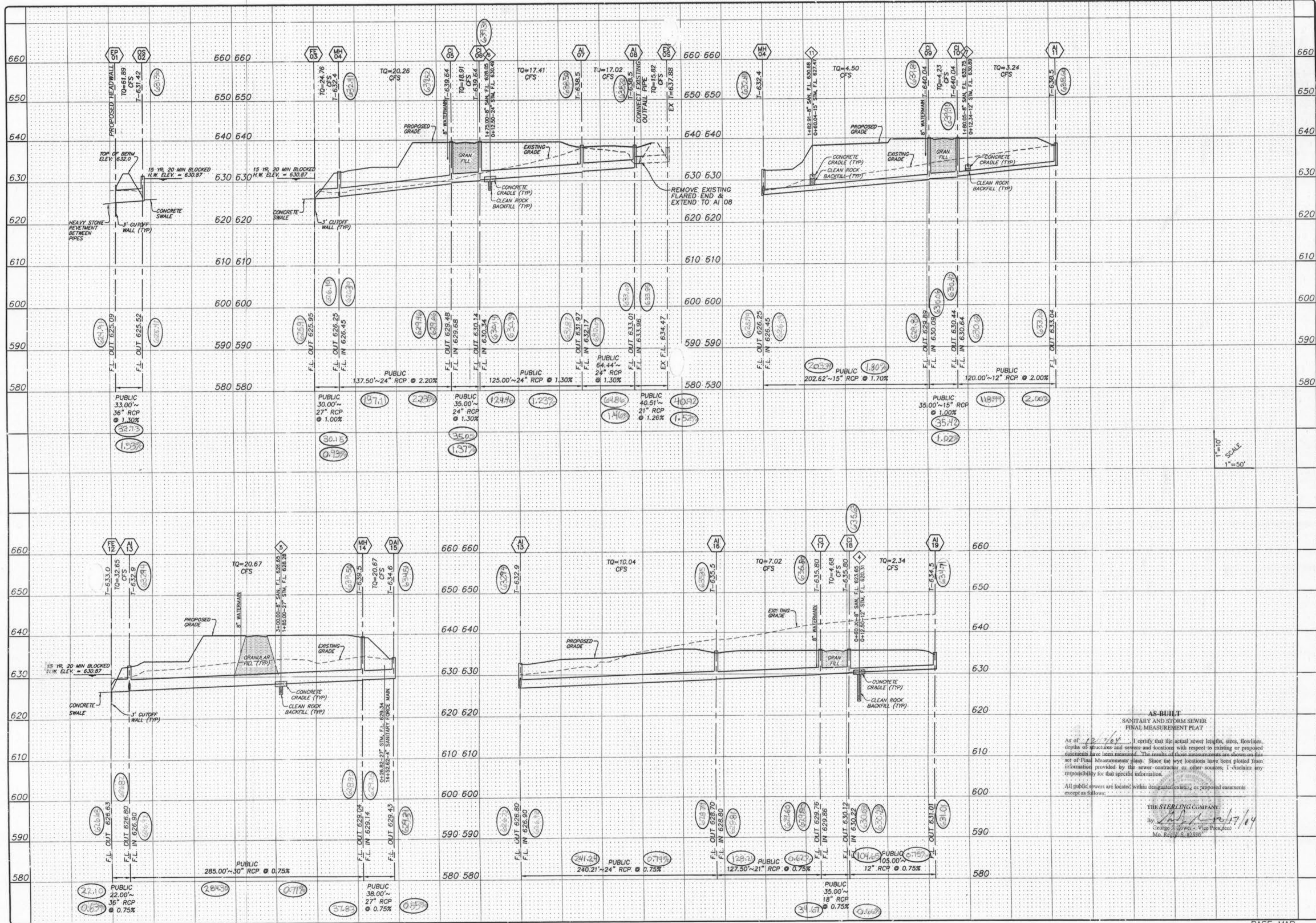
PROJECT: **BRIARCHASE ADDITION**

SHEET TITLE: **SANITARY SEWER PROFILES**

DESIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_

NO.	02	06	142
M.S.D.			SHEET
P#			9
DIGITAL FILE LOCATION	SERVER-STERLING-2		
DATE	12/17/04		OF
			22





1"=10'  
SCALE  
1"=50'

**AS-BUILT**  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT

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All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
By: *George J. Jivics*, Vice President  
No. 107 & 1/2 E. 12th St.

ISSUE REMARKS/DAT

1	04-29-04	REVISED PER CITY OF FALLON COMMENTS
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3	06-26-04	REVISED PER PASO PER COMMENTS
4	07-20-04	REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes  
Land Development, Inc.**  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 537-2000



PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
5655 NEW BAUMGARTNER ROAD  
ST. LOUIS, MISSOURI 63129  
(314) 487-0440 FAX 487-8844  
E-Mail: Sterling@sterling-eng-sur.com

DRAWN: \_\_\_\_\_  
DESIGNED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_

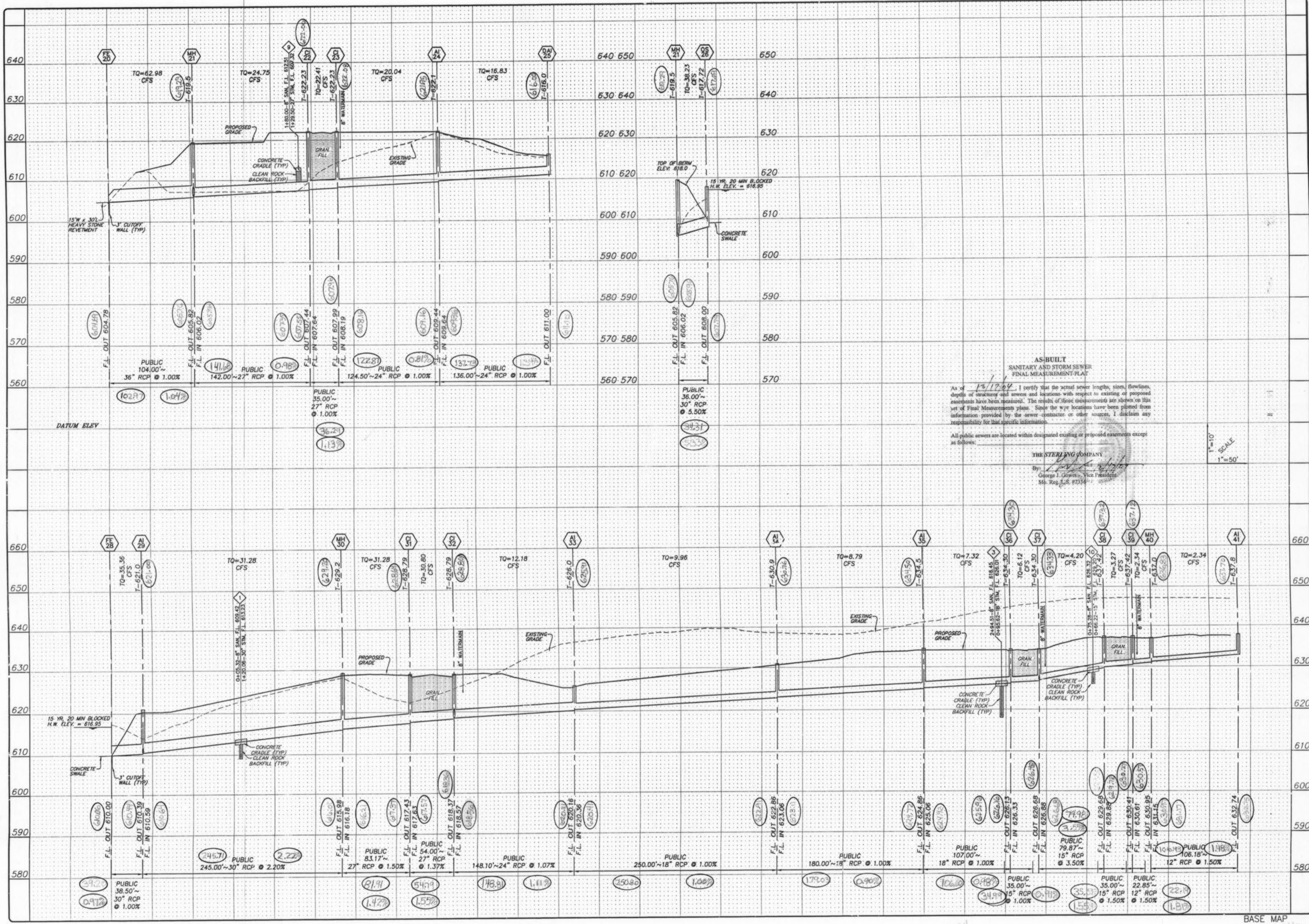
PROJECT:  
**BRIARCLASE  
ADDITION**

SHEET TITLE:  
STORM SEWER PROFILES

NO	02	06	142
M.S.D.	SHEET		
PH	10		
DIGITAL FILE LOCATION: SEWER-STERLING-2	OF 22		

BASE MAP  
Briarclase Addition App 2/3/05 RSC





AS-BUILT  
 SANITARY AND STORM SEWER  
 FINAL MEASUREMENT PLAN

As of 12/17/04, I certify that the actual sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurement plans. Since the wye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
 By: *[Signature]*  
 George J. Goyette, Vice President  
 No. Res. 3-5, #2314

1"=10'  
 1"=50'

ISSUE REMARKS DATE

1	04-29-04	FIRST SUBMITTAL
2	06-21-04	REVISED PER CITY OF FALLON COMMENTS
3	06-26-04	REVISED PER PERMITS COMMENTS
4	07-20-04	REVISED PER CITY COMMENTS

PREPARED FOR:

**McBride & Son Homes  
 Land Development, Inc.**  
 #1 McBride & Son Center Drive  
 Chesterfield, Missouri 63005  
 (636) 537-2000

PROFESSIONAL SURVEYOR  
 MISSOURI  
 No. 0000000000

PREPARED BY:

**THE STERLING COMPANY**  
 ENGINEERS & SURVEYORS  
 5955 NEW BALMARTNER ROAD  
 ST. LOUIS, MISSOURI 63129  
 (314) 487-0440 FAX 417-4844  
 E-Mail: Sterling@sterling-eng-sur.com

PROJECT:

**BRIARCHASE  
 ADDITION**

SHEET TITLE: STORM SEWER PROFILES

NO.	02 06 142
M.S.D.	
PI	
DIGITAL FILE LOCATION	
SHEET	11
OF	22

BASE MAP  
 Briarchase Addition 2/3/05 HOK





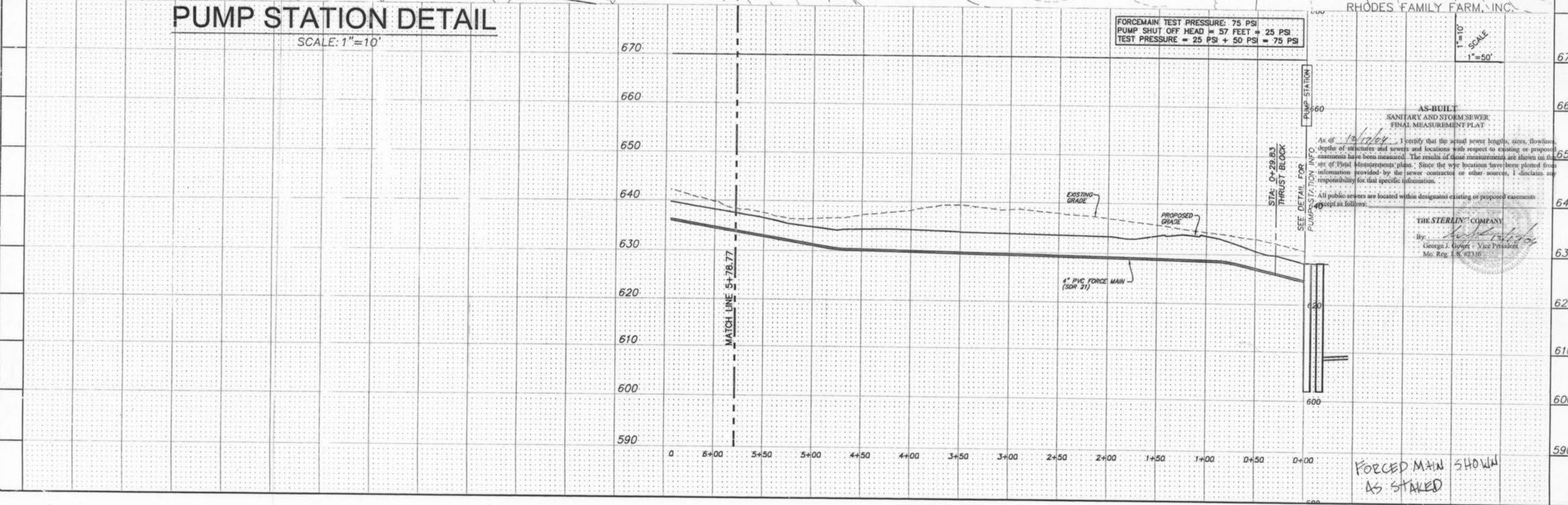
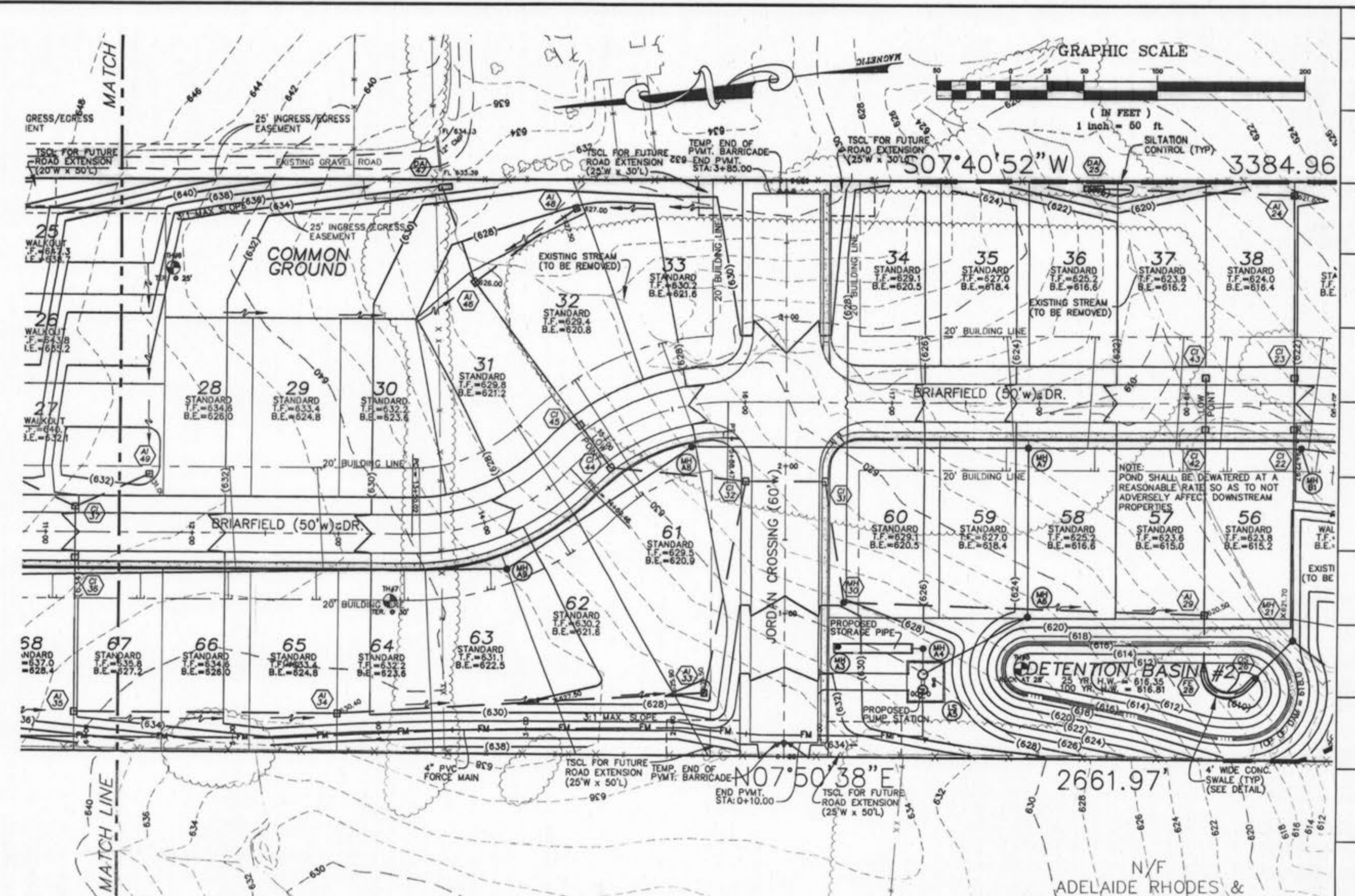
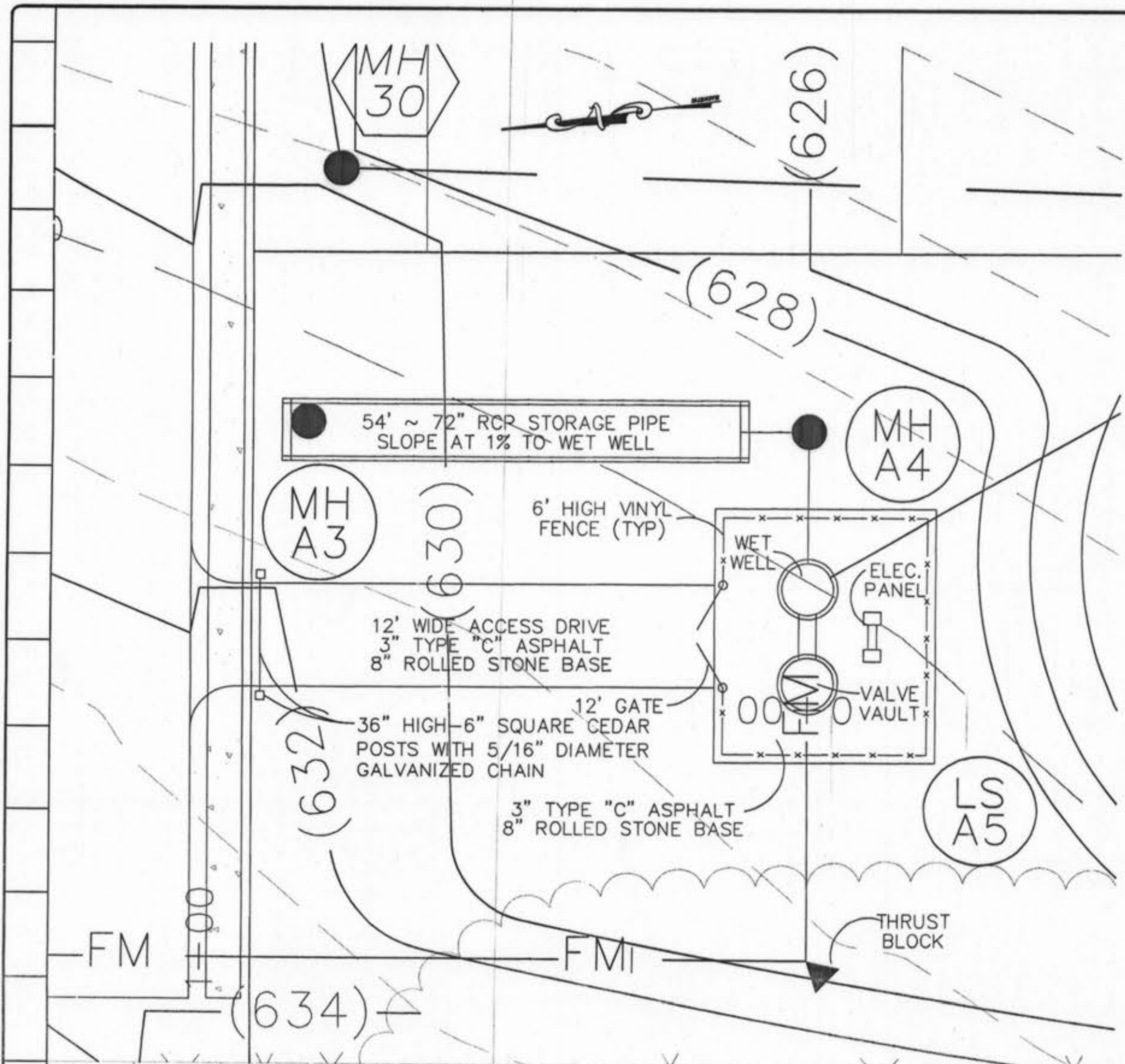


Upper Str. Type	Str. Number	Len. Ft.	Area in sq.	P. I.	Q in c. f. s.	Total Q in c. f. s.	Pipe Size in.	Const. Grade	V in f. p. s.	Vh in Ft.	Q x Vh	Hyd. Grade	Flow Line Elevation Upper	Top of Structure Elevation Upper	Free Board	Hydraulic Grade Line Upper	Frict. Loss Ft.	Curve Loss Ft.	Junc. Loss Ft.	Entr. Loss Ft.	Angle (S @)	Turn Loss Ft.	Capacity c. f. s.	Q/Cap.	Normal Depth Ft.				
T	49	37	55.72		1.20	1.20	12	1.54X	1.53	0.04	0.04	0.11X	627.41	626.55	631.51	635.03	2.15	629.36	629.30	0.06		0.04	65	0.12	4.43	0.27	0.35		
T	48	46	86.49		2.28	2.28	12	1.21X	2.90	0.13	0.30	0.41X	622.63	621.58	627.53	626.62	2.49	625.04	624.69	0.35		0.13	90	0.23	3.93	0.58	0.54		
AI	47	46	70.06		7.50	7.50	15	6.04X	6.11	0.58	4.35	1.35X	625.81	621.58	634.02	626.62	7.61	626.41	624.69	0.94		0.58	20	0.23	15.87	0.47	0.60		
AI	46	45	119.83		3.95	3.95	24	0.98X	4.37	0.30	4.07	0.37X	621.38	620.21	626.62	627.28	1.93	624.46	624.02	0.44		0.20	50	0.20	22.35	0.61	1.12		
CI	44	32	92.01		2.28	2.28	24	0.93X	5.10	0.40	6.46	0.90X	620.01	619.48	627.28	627.28	3.26	623.82	623.65	0.18			50	0.20	21.79	0.73	1.26		
CI	44	32	92.01		2.10	2.10	27	1.00X	4.55	0.32	5.83	0.34X	619.48	618.56	627.28	628.00	3.63	623.44	623.13	0.31			5	0.17	30.97	0.98	1.22		
T	43	42	35.52		1.71	1.71	15	1.52X	1.39	0.03	0.05	0.07X	616.97	616.43	621.47	621.42	3.04	618.43	618.40	0.02		0.11	0.03			7.96	0.21	0.39	
CI	42	29	124.71		1.41	3.12	15	4.48X	2.54	0.10	0.31	0.25X	616.23	610.64	621.42	620.66	3.02	618.29	618.00	0.29					4.44	13.68	0.23	0.40	
T	41	40	106.43		2.34	2.34	12	1.48X	2.98	0.14	0.32	0.43X	632.75	631.17	637.70	637.00	4.43	633.27	632.17	0.46		0.14	45	0.06	4.34	0.54	0.52		
MH	40	39	32.14		0.93	2.34	12	1.81X	2.98	0.14	0.32	0.43X	630.97	630.57	636.83	637.42	4.83	631.67	631.57	0.10		0.02			4.79	0.49	0.49		
CI	39	38	35.58		0.93	3.27	15	1.55X	2.66	0.11	0.36	0.26X	630.27	629.72	637.12	637.32	5.85	631.06	630.97	0.09		0.13			8.03	0.41	0.55		
CI	38	37	79.98		0.93	4.20	15	3.55X	3.42	0.18	0.76	0.42X	629.52	626.68	637.32	634.33	6.35	630.02	629.30	0.34		0.34			12.17	0.35	0.50		
CI	37	36	34.99		0.72	6.12	15	0.91X	4.99	0.39	2.36	0.90X	626.48	626.16	634.33	634.30	5.03	628.84	628.52	0.31					6.18	0.99	1.01		
CI	36	35	106.6		1.20	7.32	18	0.98X	4.14	0.27	1.95	0.49X	625.96	624.92	634.30	634.30	5.78	628.52	628.01	0.52		0.22			10.38	0.71	0.92		
AI	35	34	179.03		1.47	8.79	18	0.90X	4.97	0.38	3.38	0.70X	624.72	623.11	634.30	630.76	6.49	627.60	626.35	1.25		0.21			9.96	0.88	1.08		
AI	34	33	250.8		1.17	9.96	18	1.00X	5.64	0.49	4.91	0.90X	622.91	620.41	630.76	625.91	4.41	626.12	623.87	2.25		0.21			7.75	0.31	1.16		
AI	33	32	148.81		2.62	18.18	24	1.11X	3.88	0.23	2.84	0.29X	620.21	618.56	625.91	628.80	2.04	623.56	623.13	0.43		0.06			80	0.17	23.82	0.51	1.00
CI	32	31	54.79		0.51	30.80	27	1.44X	7.75	0.93	14.89	0.99X	618.36	616.21	628.80	629.20	7.09	620.89	620.05	0.84		0.06			37.19	0.83	1.95		
CI	31	30	81.91		0.48	31.28	27	1.42X	7.87	0.96	30.06	1.02X	617.37	610.64	629.20	621.01	9.15	619.43	618.00	1.43		0.32			36.86	0.85	1.58		
MH	30	29	245.71		0.96	31.28	30	2.19X	6.37	0.63	19.72	0.58X	616.01	610.64	629.20	621.01	3.01	617.24	616.95	0.29					63.64	0.52	1.25		
AI	29	28	39.2		0.96	35.36	30	0.97X	7.20	0.81	28.49	0.74X	610.44	610.06	621.01										40.38	0.88	1.80		
T	26	21	34.31		38.23	38.23	30	5.33X	7.79	0.94	36.01	0.87X	607.79	605.96	617.69	619.29	7.25	610.44	610.14	0.30		0.94	90	0.97	94.73	0.40	1.10		
T	25	24	137.73		16.83	16.83	24	1.26X	5.36	0.45	7.50	0.55X	611.10	609.36	616.00	621.95	2.17	613.89	613.06	0.76		0.34	45	0.31	25.43	0.66	1.18		
AI	24	23	122.87		3.21	20.04	24	0.81X	6.38	0.63	12.66	0.78X	609.16	608.16	621.95	622.08	8.89	612.41	611.45	0.96					20.41	0.98	1.60		
CI	23	22	36.29		2.37	22.41	27	1.13X	5.64	0.49	11.05	0.52X	607.96	607.55	622.08	622.00	10.63	611.45	611.26	0.19		0.21			32.82	0.68	1.35		
CI	22	21	141.68		2.34	24.75	27	0.98X	6.22	0.60	14.89	0.64X	607.35	605.96	622.08	619.29	10.74	611.05	610.14	0.90		0.56			30.68	0.81	1.53		
MH	21	20	102.97		62.98	62.98	36	1.04X	8.91	1.23	77.63	0.89X	605.79	604.69	619.29		9.15	608.61	607.69	0.92					67.99	0.93	2.28		
T	19	18	104.65		2.34	2.34	12	0.75X	2.98	0.14	0.32	0.43X	631.01	630.23	634.71	635.63	1.90	632.81	632.36	0.45		0.05	0.14		3.08	0.76	0.65		
T	18	17	34.67		2.34	4.68	18	0.66X	2.65	0.11	0.51	0.43X	630.03	629.80	635.63	635.80	3.27	632.31	632.24	0.07		0.09			8.56	0.55	0.78		
CI	17	16	128.21		2.34	7.02	21	0.62X	2.92	0.13	0.93	0.20X	629.60	628.81	635.80	635.35	3.56	632.16	631.91	0.25		0.09			12.44	0.56	0.93		
AI	16	13	841.24		3.02	10.04	24	0.74X	3.20	0.16	1.59	0.20X	628.71	626.92	635.35	632.74	3.44	631.75	631.27	0.48					40.21	19.49	0.52	1.00	
T	15	14	37.83		20.67	20.67	27	0.56X	5.20	0.42	8.67	0.45X	629.31	629.10	634.51	639.50	2.11	632.40	632.23	0.17		0.14	45	0.24	22.07	0.90	1.64		
MH	14	13	284.3		1.94	23.67	30	0.70X	4.21	0.28	5.69	0.23X	628.90	626.92	639.50	632.94	7.27	631.99	631.27	0.72					34.23	0.60	1.38		
CI	13	12	22.1		1.94	32.65	36	0.63X	4.62	0.23	10.82	0.45X	628.92	626.92	639.50	632.94	1.67	630.92	630.87	0.05					53.09	0.62	1.68		
T	11	10	118.99		3.84	3.84	12	2.00X	4.13	0.26	0.86	0.83X	633.00	630.62	638.60	639.90	5.02	632.58	632.46	0.98		0.05	0.26		5.04	0.64	0.58		
CI	10	9	35.42		0.99	4.23	15	1.02X	3.45	0.18	0.78	0.43X	630.42	630.06	639.90	639.89	7.44	632.46	632.31	0.15					6.51	0.65	0.73		
CI	9	4	203.39		0.27	4.50	15	1.80X	3.67	0.21	0.94	0.49X	629.86	626.19	639.89	632.91	7.58	632.25	631.26	0.99					8.68	0.52	0.64		
T	61	8	40.92		15.82	15.82	21	1.52X	6.58	0.67	10.63	1.00X	634.47	633.85	637.88	638.32	1.87	636.01	635.60	0.41		0.04	0.67	50	0.34	19.50	0.81	1.19	
AI	8	7	64.86		1.20	17.02	24	1.46X	5.42	0.46	7.76	0.57X	633.02	632.07	638.32	638.50	2.72	634.44	634.07	0.37					27.38	0.62	1.14		
AI	7	6	124.46		0.39	17.41	24	1.23X	5.54	0.48	8.30	0.59X	631.87	630.34	638.50	639.31	4.43	633.66	632.93	0.74		0.16			25.08	0.69	1.22		
CI	6	5	35.05		1.50	18.91	24	1.37X	6.02	0.56	10.64	0.70X	630.14	629.66	639.31	639.52	6.38	632.76	632.52	0.24		0.16			26.47	0.71	1.24		
CI	5	4	137.11		1.35	20.26	24	2.24X	6.23	0.60	13.08	0.80X	629.46	626.39	639.52	632.41	7.00	632.36	631.26	1.10		0.05			33.85	0.60	1.10		
MH	4	3	30.15		24.76	24.76	27	0.93X	6.23	0.60	14.91	0.64X	626.19	625.91	632.41		1.15	631.06	630.87	0.19					29.85	0.83	1.55		
T	2	1	32.73		61.89	61.89	36	1.53X	8.76	1.19	73.67	0.86X	625.41	624.91	631.36		2.99	628.37	628.09	0.28		1.19							









ISSUE/REMARKS/DATE

1	04-20-04	FIRST SUBMITTAL
2	06-21-04	REVISED PER CITY OF FALLON COMMENTS
3	06-26-04	REVISED PER RPD #2 COMMENTS
4	07-20-04	REVISED PER CITY COMMENTS

PREPARED FOR:  
**McBride & Son Homes  
Land Development, Inc.**  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 537-2000

PREPARED BY:  
**THE STERLING CO.**  
ENGINEERS & SURVEYORS  
5965 NEW BAUMGARTNER ROAD  
ST. LOUIS, MISSOURI 63123  
(314) 487-0440 FAX: 487-8544  
E-Mail: Sterling@sterling-eng-sur.com

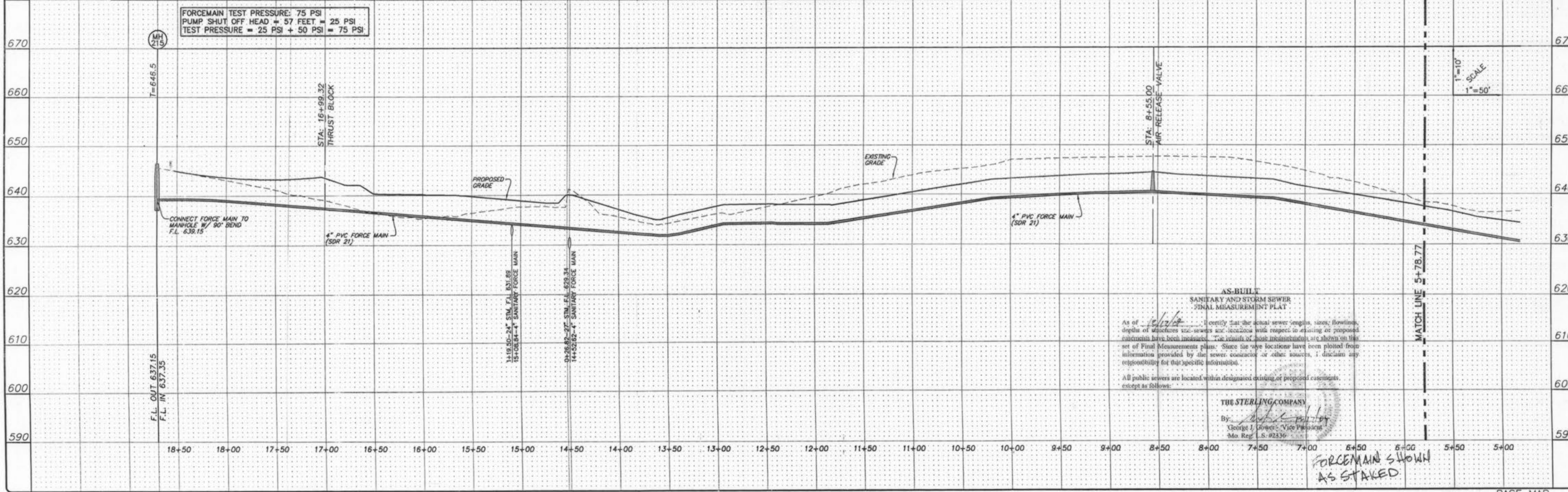
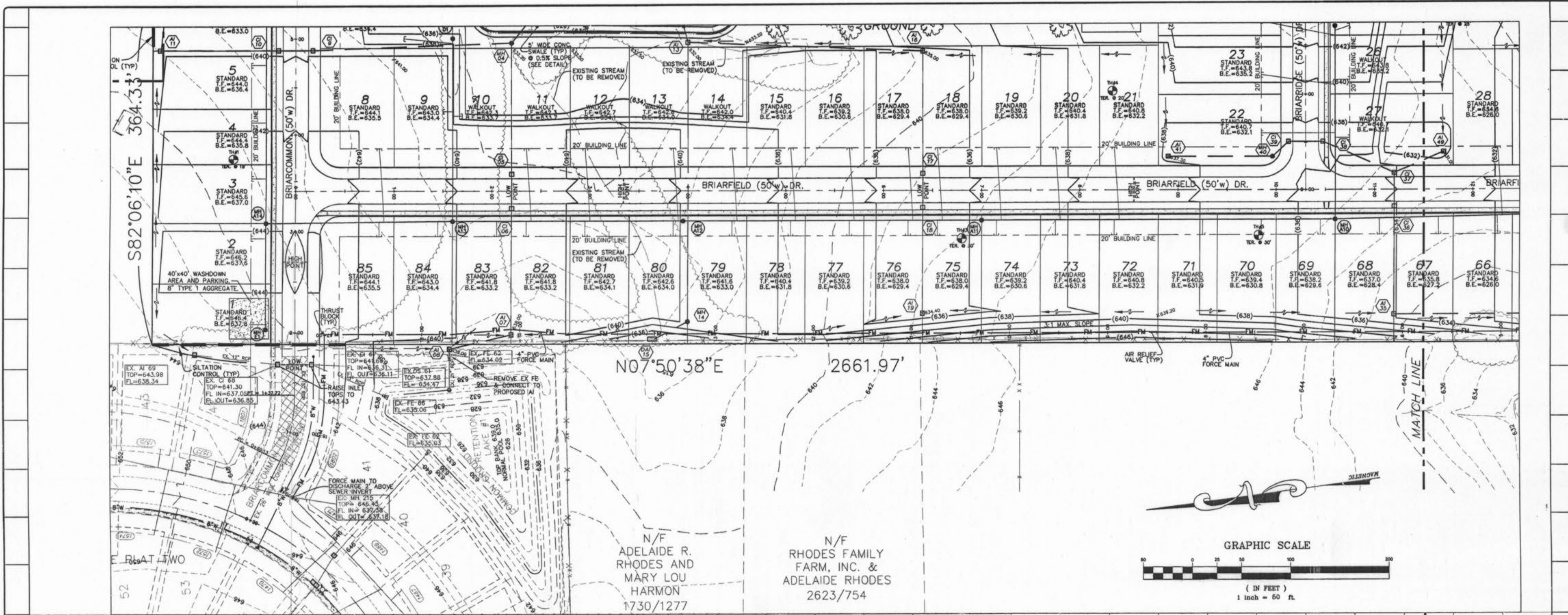
DRAWN: \_\_\_\_\_  
DESIGNED: \_\_\_\_\_  
CHECKED: \_\_\_\_\_

PROJECT: **BRIARCHASE ADDITION**  
SHEET TITLE: FORCEMAIN PLAN/PROFILES

NO.	02	06	142
M.S.D.			SHEET
PH		20	OF
DIGITAL FILE LOCATION	BRIARCHASE-STERLING-2		
DATE OF WORK	04/20/04		

BASE MAP  
Briar Chase Add 2/10/05 A6X



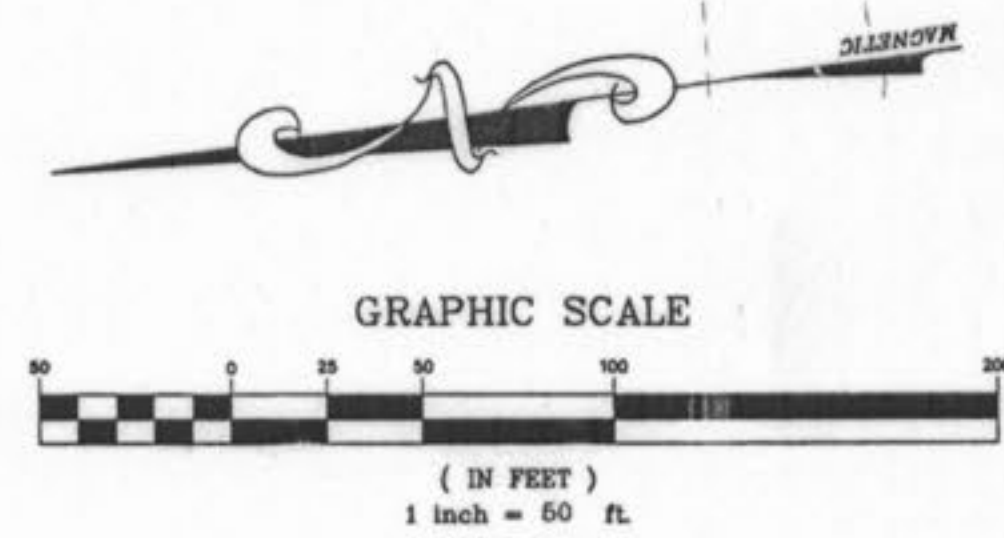


AS-BUILT  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT

As of 10/17/14, I certify that the actual sewer depths, sizes, flowlines, depths of manholes and structures and locations with respect to existing or proposed easements have been measured. The results of these measurements are shown on this set of Final Measurements plans. Since the site locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for their specific information.

All public sewers are located within designated existing or proposed easements, except as follows:

THE STERLING COMPANY  
By: *George J. Fowler*  
George J. Fowler, Vice President  
Mo. Reg. No. 22336



ISSUE REMARKS/DATE  
1 04-28-04 FIRST SUBMITTAL  
2 08-21-04 REVISED PER CITY OF FALLON COMMENTS

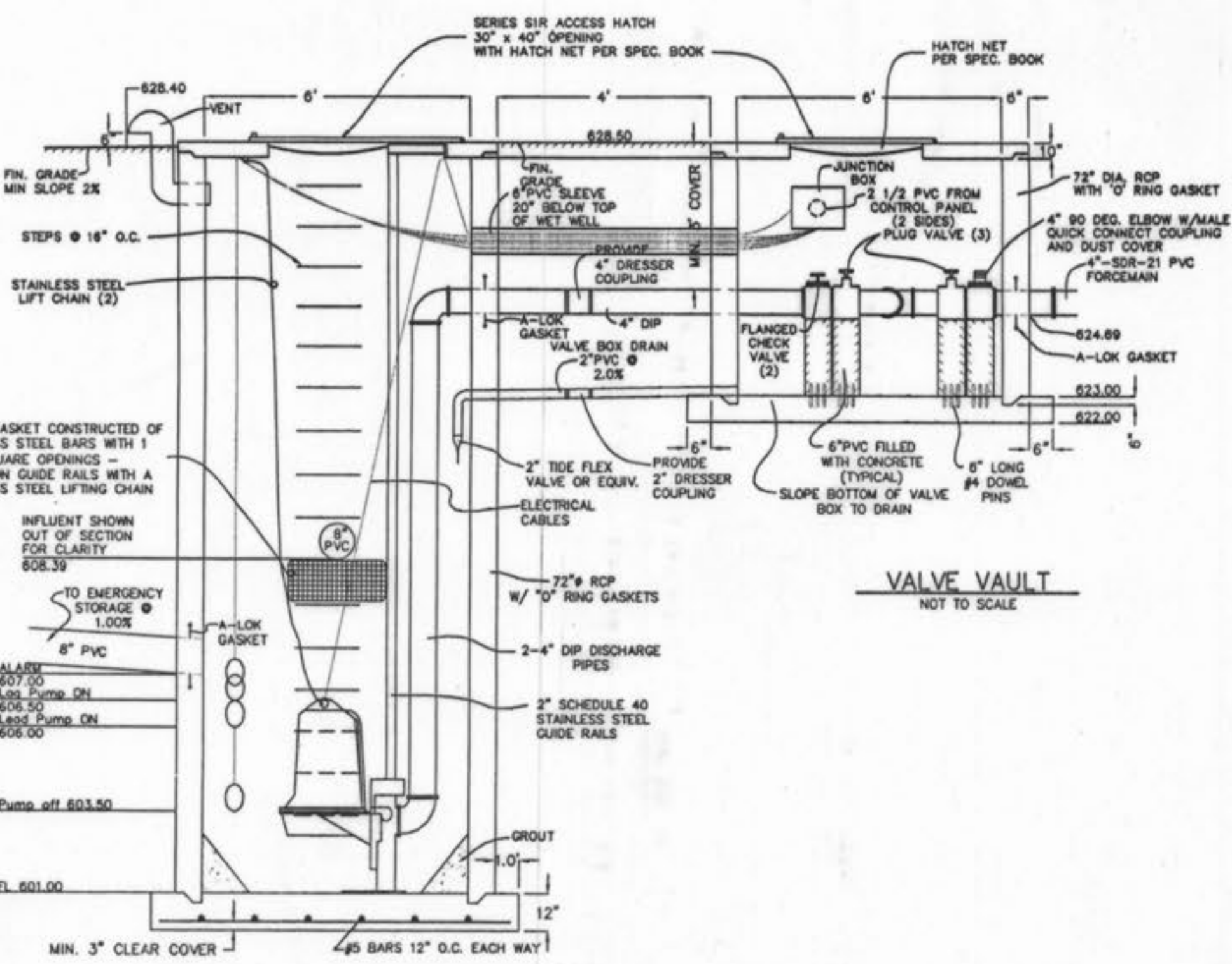
PREPARED FOR:  
**McBride & Son Homes**  
Land Development, Inc.  
#1 McBride & Son Center Drive  
Chesterfield, Missouri 63005  
(636) 537-2000

THE STERLING COMPANY  
ENGINEERS & SURVEYORS  
5655 NEW BALUNGA TURNER ROAD  
ST. LOUIS, MISSOURI 63128  
(314) 487-3440 FAX 487-8844  
E-Mail: Sterling@sterling-eng-sur.com

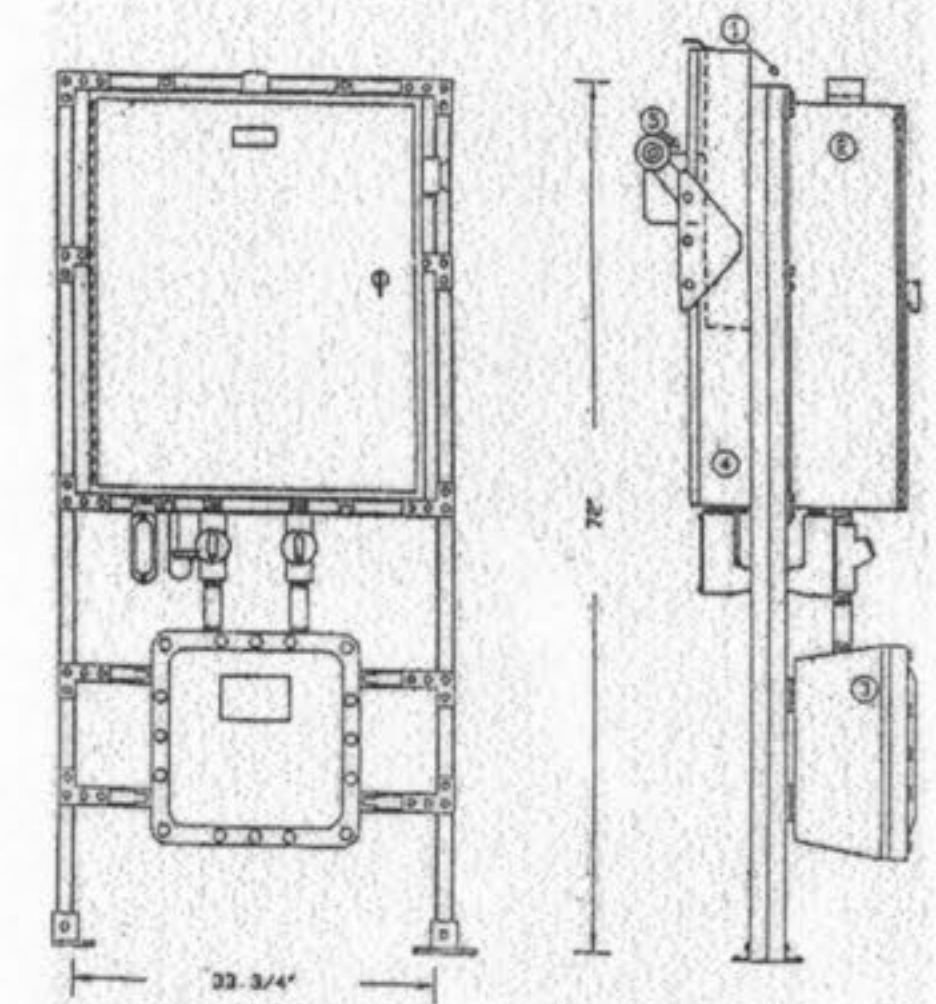
PROJECT: **BRIARCHASE ADDITION**  
SHEET TITLE: **FORCE MAIN PLAN/PROFILES**

NO. 02 06 142  
M.S.D. SHEET  
PW 21  
DIGITAL FILE LOCATION: STERLING-STERLING-2  
OF 22

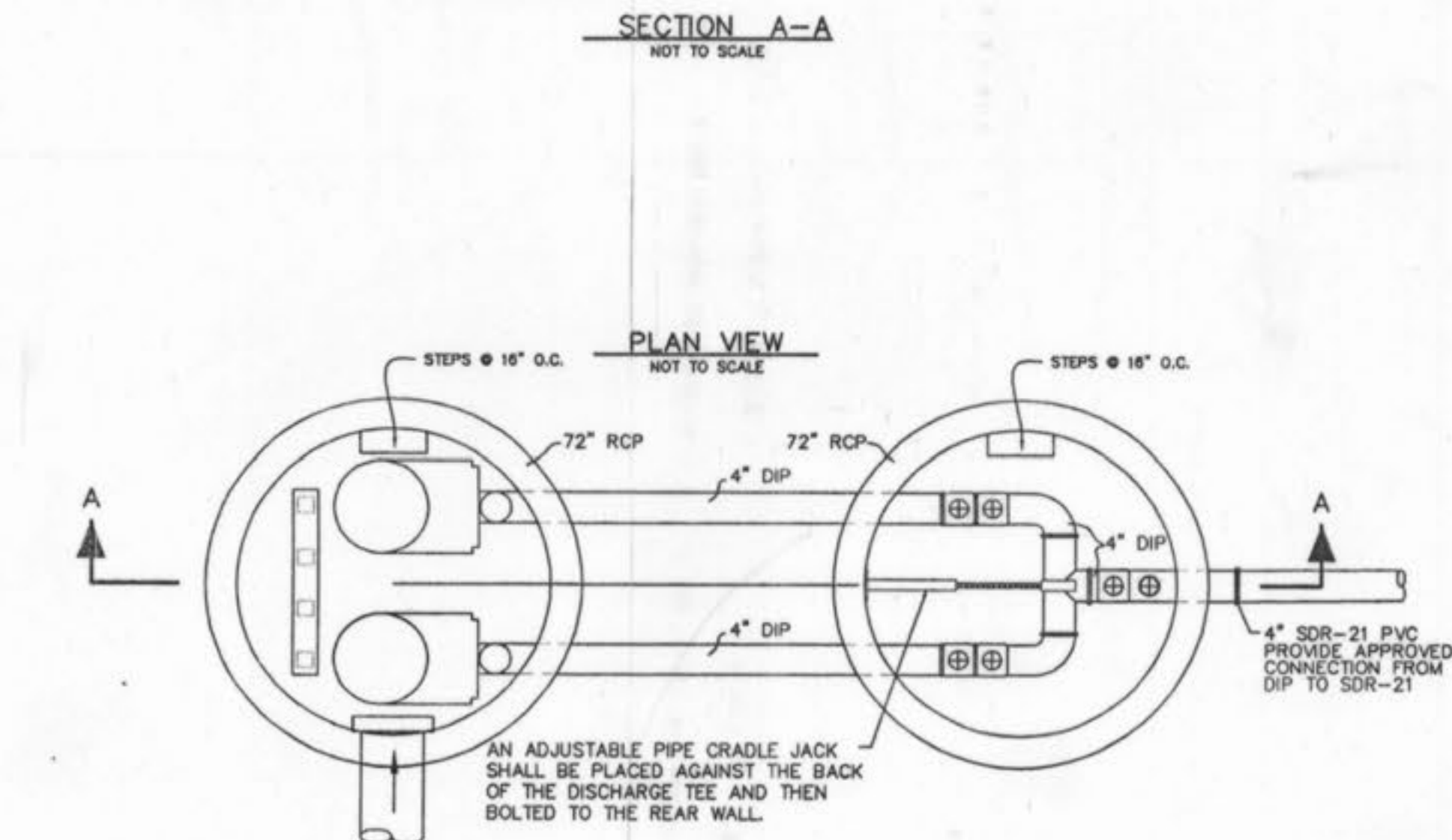
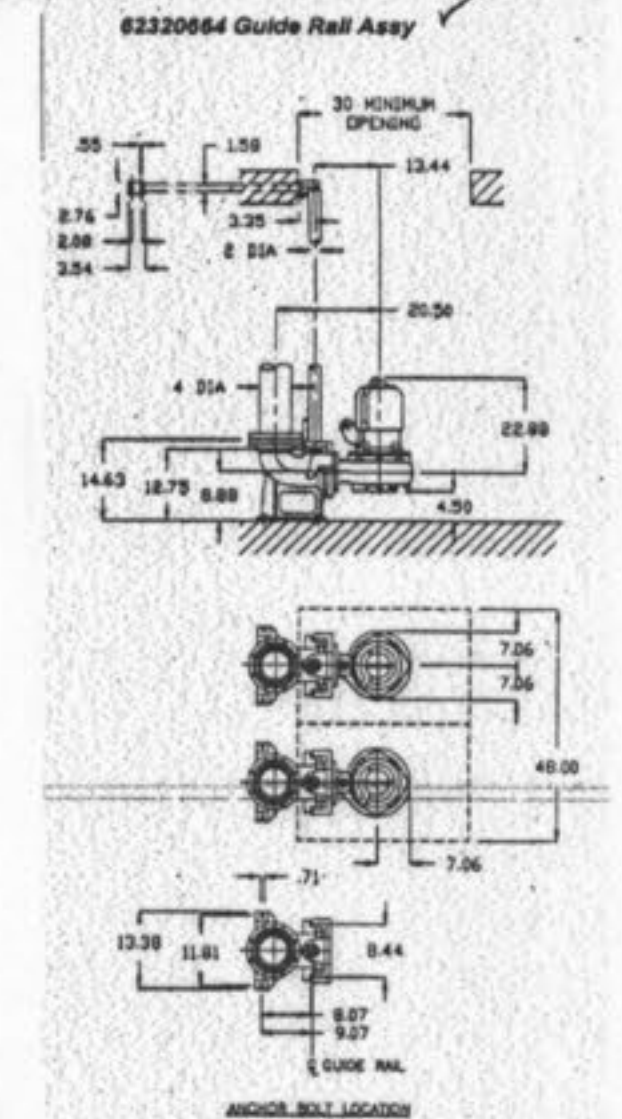




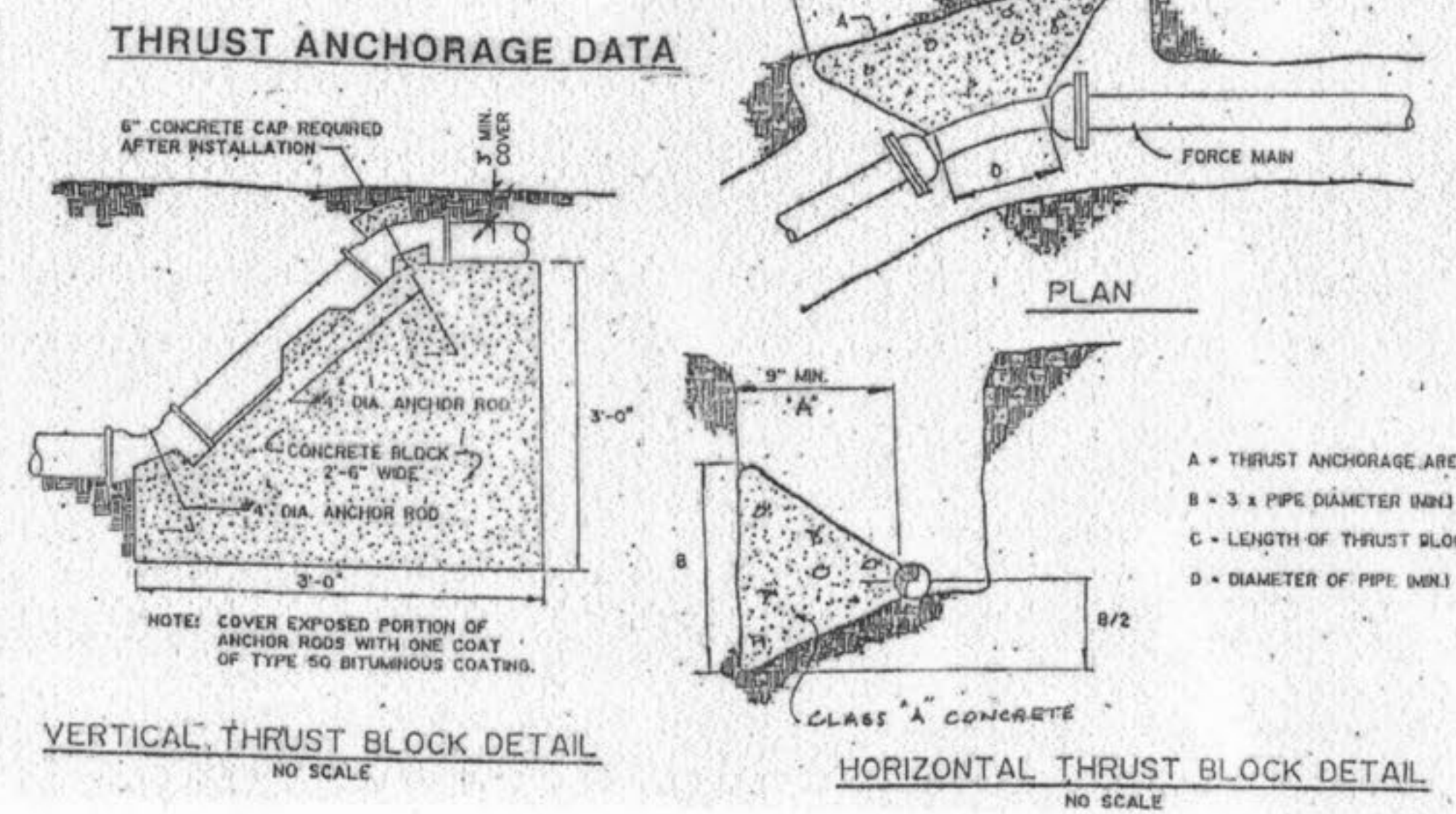
VALVE VAULT  
NOT TO SCALE



ELECTRICAL PANEL  
NO SCALE  
 1. UNISTRUT FRAME  
 2. NEMA 4X PUMP CONTROL PANEL  
 3. NEMA 4X JUNCTION BOX WITH TERMINAL STRIP  
 4. DISCONNECT SWITCH  
 5. METER BASE



PLAN VIEW  
NOT TO SCALE



THRUST ANCHORAGE DATA

VERTICAL THRUST BLOCK DETAIL  
NO SCALE

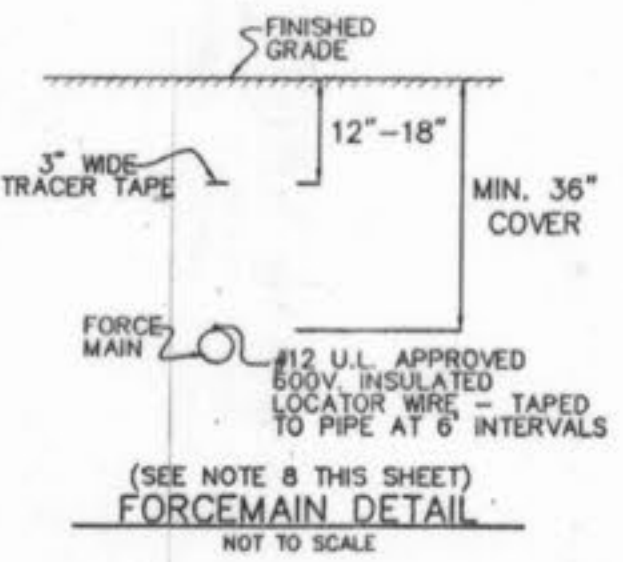
HORIZONTAL THRUST BLOCK DETAIL  
NO SCALE

TYPICAL DRAWING ONLY, NOT FOR CONSTRUCTION PURPOSES. CONTACT FACTORY FOR CERTIFIED DRAWINGS.  
 ABS  
 A Division of the United States Steel Corporation

TYPICAL THRUST BLOCK DIMENSIONS (MIN)

FITTING	A	B	C
11 1/4"	1"	1"	1.5"
22 1/2"	1"	1"	1.5"
45"	1"	2"	2"
90"	1"	2"	2"
TEE	1"	1.5"	2"

- NOTES:
1. PRECAST 72" I.D. MANHOLES TO BE USED FOR PUMP STATION AND VALVE BOX AS APPROVED BY ENGINEER.
  2. PRECAST WET WELL ENTRANCE STEPS SHALL BE COPOLYMER POLYPROPYLENE PLASTIC TYPE MANHOLE STEPS.
  3. STEPS SHALL NOT BE PLACED IN FRONT OF INCOMING GRAVITY LINES OR LOCATED UNDER OR NEXT TO ANY OBSTRUCTIONS.
  4. THE STEPS SHOULD PROVIDE A CLEAR-IN-LINE VISIBLE UNOBSTRUCTED ACCESS FROM THE TOP OF THE CHAMBER TO THE BOTTOM OF THE STATION AND BE PLACED ON ONE OF THE STATION SIDEWALLS APPROXIMATELY CENTERED WITH THE HATCH COVER.
  5. ALL PIPES MUST ENTER THE STRUCTURE WALLS WITH A ONE (1) FOOT MINIMUM DISTANCE FROM THE CENTERLINE OF THE PIPE TO THE FACE OF THE ADJOINING WALL TO ALLOW PROPER PIPE GASKET PLACEMENT.
  6. FORCE MAIN TO BE 4" DIA. SDR-21 PVC WITH SLIP JOINTS.
  7. AIR RELIEF VALVE - AN AUTOMATIC COMBINATION VACUUM AIR RELIEF VALVE SHALL BE PLACED AT HIGH POINTS IN THE FORCE MAIN TO PREVENT AIR LOCKING.
  8. THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS (VERTICAL AND HORIZONTAL) AND ANY TERMINATION POINT.
  9. ALL PUMP STATION EQUIPMENT AND INSTALLATION SHALL BE COORDINATED WITH PUMP MANUFACTURER FOR COMPLETENESS AND COMPATIBILITY.
  10. THE PUMP STATION SHALL BE AN ABS MODEL AFP1032 M70/4 OR APPROVED EQUAL AS DIRECTED BY WATER DISTRICT #2, ST. CHARLES COUNTY, MISSOURI, INCLUDING ALL FITTINGS AND SUPPORT EQUIPMENT.
  11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DEPARTMENT OF NATURAL RESOURCES AND WATER DISTRICT #2, ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS WHICHEVER IS GREATER.
  12. ON PRECAST STATIONS GRAVITY LINES MUST HAVE THEIR ANGLES OF ENTRY INCLUDED ON THE STRUCTURE PLANS AT THEIR POINTS OF ENTRY TO THE STRUCTURE. THE MAXIMUM ANGLE OF DEFLECTION ALLOWED FOR PIPE GASKET TO BE "Z-LOCK" = 25 DEGREE AND "A-LOCK" = 7 DEGREE.



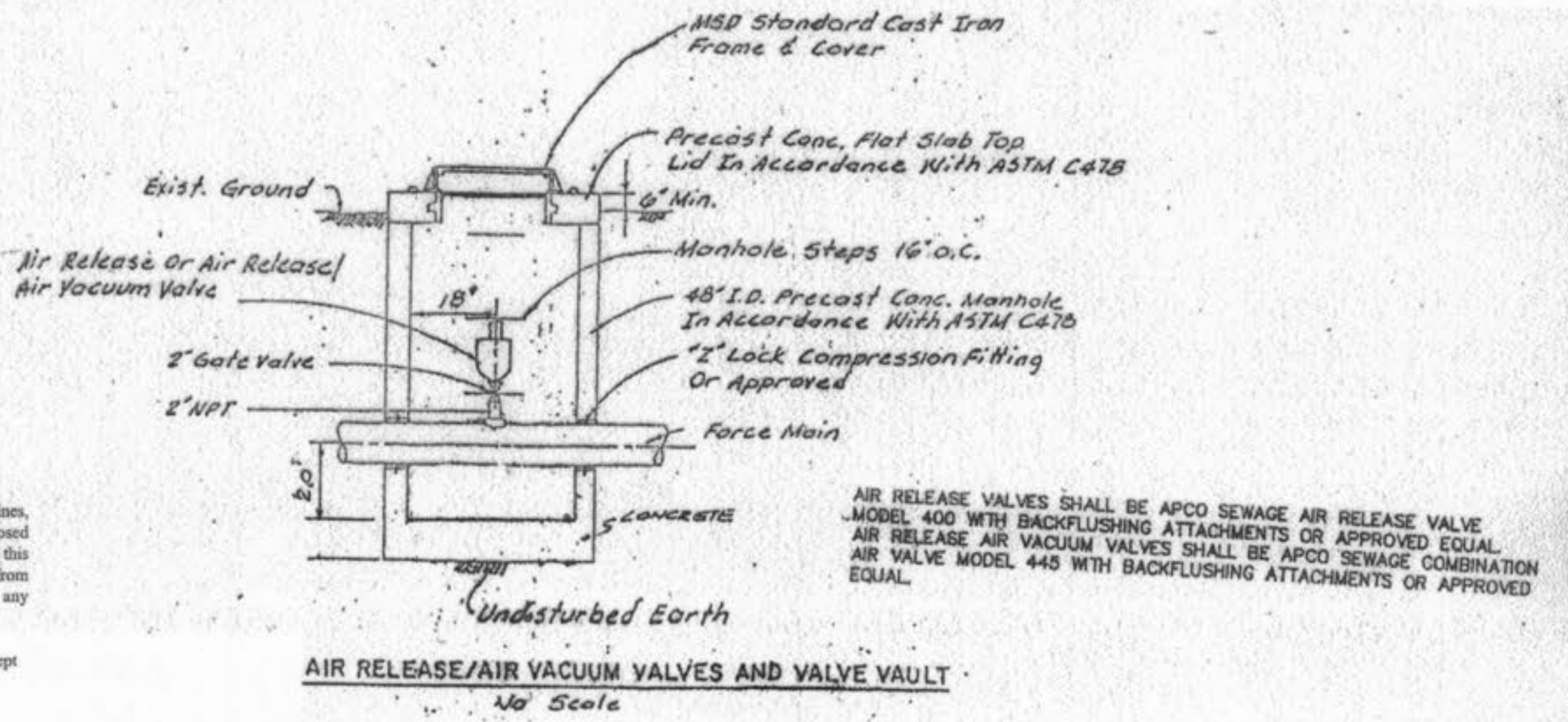
FORCE MAIN DETAIL  
NOT TO SCALE

AS-BUILT  
SANITARY AND STORM SEWER  
FINAL MEASUREMENT PLAT

As of 7/17/04, I certify that the actual sewer lengths, sizes, flowlines, depths of structures and sewers and locations with respect to existing or proposed easements have been measured. The results of those measurements are shown on this set of Final Measurements plans. Since the wye locations have been plotted from information provided by the sewer contractor or other sources, I disclaim any responsibility for that specific information.

All public sewers are located within designated existing or proposed easements except as follows:

THE STERLING COMPANY  
 By: George J. Goyer - Vice President  
 Mo. Reg. I.S. #2336



AIR RELEASE/AIR VACUUM VALVES AND VALVE VAULT  
NO SCALE

THE UNDERGROUND UTILITIES SHOWN HEREON 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 SAID UTILITIES 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

ISSUE REMARKS/DATE  
 1 04-20-04 FIRST SUBMITTAL  
 2 06-21-04 REVISED PER CITY OF OFALLON COMMENTS

PREPARED FOR:  
**McBride & Son Homes**  
 Land Development, Inc.  
 #1 McBride & Son Center Drive  
 Chesterfield, Missouri 63005  
 (636) 537-2000

PREPARED BY:  
**THE STERLING COMPANY**  
 ENGINEERS & SURVEYORS  
 5695 NEW BAUMGARTNER ROAD  
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 (314) 747-2440 FAX 467-4844  
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PROJECT:  
**BRIARCHASE ADDITION**  
 PUMP STATION DETAILS

DRAWN: DESIGNED: CHECKED:

NO. 02 06 142  
 M.S.D. SHEET  
 PW 22  
 OF 22

SHEET TITLE: PUMP STATION DETAILS

BASE MAP  
 BriarChase Add 2/13/05 Arc