

# HUBER SANITARY SEWER

AN EXTENSION TO PRINSTER PROPERTY

**A TRACT OF LAND BEING PART OF U.S. SURVEY 1790 T.47N., R.3E.  
SAINT CHARLES, MISSOURI**

## CITY OF O'FALLON GENERAL NOTES

- 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.
- 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.
- 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.
- All storm and sanitary trench backfills shall be water jetted. Granular fill will be used under paved areas.
- 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.
- No area shall be cleared without the permission of the developer.
- 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.
- This site is served by:  
FIRE - O'Fallon Fire District  
SCHOOL - Fort Zumwalt School District  
TELEPHONE - GTE  
GAS - St. Charles Gas Co.  
ELECTRIC - Union Electric Co.  
WATER - City of O'Fallon  
SANITARY SEWERS - City of O'Fallon
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- 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.
- All streets must meet the specifications and installation requirements of the City of O'Fallon.
- All sanitary manholes top shall be set 0.2' higher than the proposed ground except in pavement areas.
- All sanitary manholes shall have a 31 mil thick coat of coal tar pitch waterproofing.
- All sanitary service lines shall have a 6" diameter for Multi-family and a 4" diameter for single-family developments.
- Manhole frame and cover shall be Clay and Bailey No. 2008 or Neenah R-1736 or Deister 1315 or approved equal.
- A drop of 0.2 feet is required through each sanitary manhole.
- The City of O'Fallon shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- Brick shall not be used on manholes.
- Waterproofing: Waterproofing will be required on the exterior of all manholes. The bitumen shall consist of two coats of asphalt, coal-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.
- All improvements are per City of O'Fallon specifications.
- All offsite (Highgrove) areas shall be replaced to original conditions.
- Contractor to notify utility companies prior to construction. NOTE: Telephone pedestal on lot line.

## LOCATION MAP



PROJECT

## DRAWING INDEX

Sheet	Description
1	COVER SHEET
2	PLAN AND PROFILES
2	CONSTRUCTION DETAILS

## LEGEND

● Sanitary Sewer (Proposed)	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
W Water Line & Size	Light Standard	V.C.P. Vitrified Clay Pipe
EX W 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
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

EACH CONTRACTOR, SUBCONTRACTOR, AND/OR UTILITY COMPANY SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF ANY SILTATION CONTROL PLACED ON THE DEVELOPMENT BY THE DEVELOPER AND SHALL NOT DISTURB THE SILTATION CONTROL EXCEPT AS ABSOLUTELY NECESSARY. IN THE EVENT OF ANY SUCH DISTURBANCE OF SILTATION CONTROL, THEN THE CONTRACTOR, SUBCONTRACTOR, OR UTILITY COMPANY, AS APPLICABLE, DISTURBING SUCH SILTATION CONTROL SHALL IMMEDIATELY REPLACE THE SAME AT SUCH CONTRACTOR'S, SUBCONTRACTOR'S, AND UTILITY COMPANY'S, AS APPLICABLE, EXPENSE. IN THE EVENT OF ANY FINES OR PENALTIES BEING LEVIED AS A RESULT OF THE DISTURBANCE OF ANY SUCH SILTATION CONTROL, THE PARTY DISTURBING SUCH SILTATION CONTROL SHALL BE LIABLE FOR PAYMENT OF SAME AND SHALL INDEMNIFY AND HOLD WHITTAKER CONSTRUCTION, INCORPORATED, HARMLESS FROM ANY AND ALL LIABILITIES, DAMAGES, DEMANDS, PENALTIES, FINES, FEES, CLAIMS, CAUSES OF ACTION, JUDGEMENTS, COSTS AND EXPENSES, INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, ARISING FROM OR IN CONNECTION WITH ANY SUCH DISTURBANCE.

## SITE BENCHMARK

RM 70 (U.S.G.S.) ELEVATION = 505.026  
STANDARD DISK STAMPED "H 149 1935" SET IN TOP  
OF WEST END OF THE BASE OF SOUTH PIER OF  
NORFOLK SOUTHERN RAILWAY OVER STATE HIGHWAY 79.

## REVISIONS

4/20/98 SHEET 2 EASMENT  
4/23/98 Sheet 2 - City Comments

File  
APPROVED  
4/23/98  
Jean Cullup

# PICKETT RAY & SILVER

Civil Engineers  
Planners  
Land Surveyors

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

<p>ENGINEERS AUTHENTICATION</p> <p>The responsibility for professional engineering liability on this project is hereby limited to the seal of sign and date hereon attached. Responsibility is disclaimed for all other engineering work involved in the project and specifically includes revisions after this date unless re-notarized.</p> <p>PICKETT, RAY &amp; SILVER, INC.</p> <p>4/23/98</p>	<p>DEVELOPER</p> <p>FERD HUBER 261 PIPER ROAD O'FALLON MO. 63366</p>	<p>© Copyright 1998 by Pickett, Ray &amp; Silver Inc.</p> <p>CONFIDENTIAL PROPRIETARY MATERIAL The use, reproduction and sales rights of this drawing are reserved by Pickett, Ray &amp; Silver Inc.</p> <p>DRAWN G.W.M. DATE 3-23-1998 CHECKED T.J.D. DATE</p> <p>FIELD BOOK 609E PROJECT # 95-067A JOB ORDER # DMO</p> <p>1/2</p>
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