

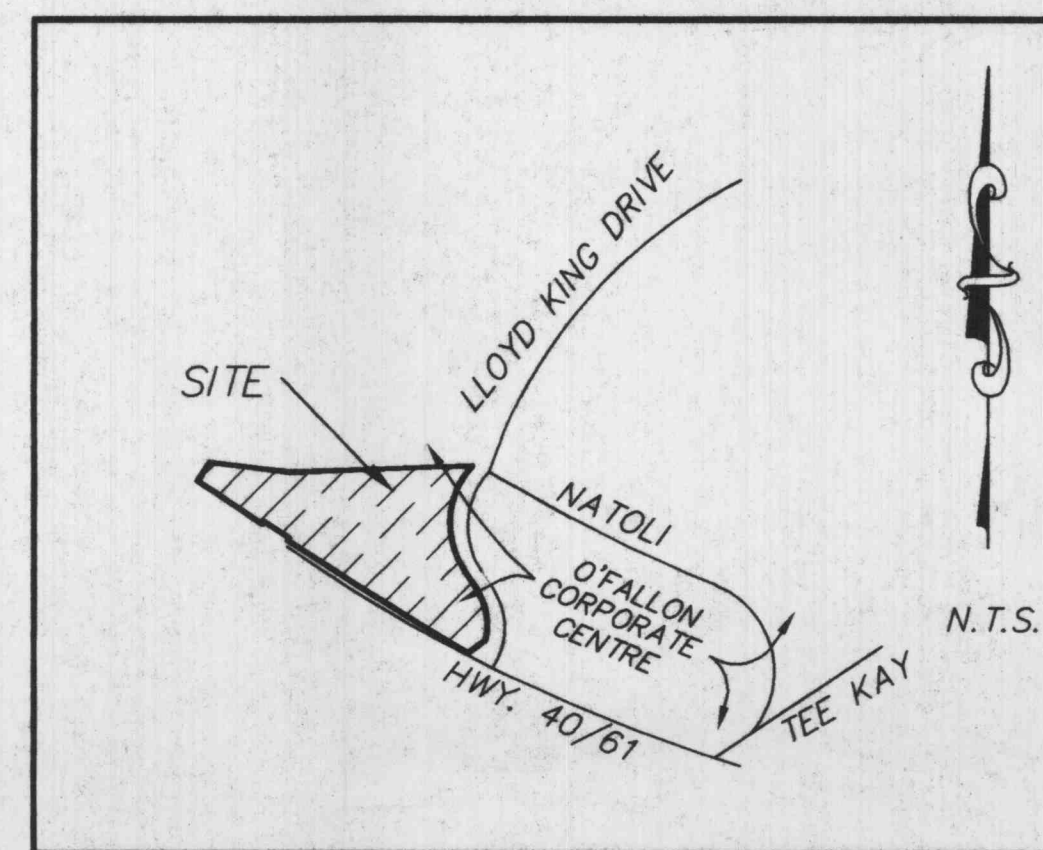
KING SAFETY IMPROVEMENT PLANS

A tract of land being part of U.S. Lots 1A and 1B of O'Fallon Corporate Centre
Township 46 North, Range 3 East,
St. Charles County, 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.
- Storm sewers 18" in diameter or smaller shall be ASTM C-14.
- Storm sewers 21" in diameter or larger shall be ASTM C-76, Class II.
- 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.
- Corrugated metal pipe shall conform to the standard specifications for corrugated culvert pipe M-36, A.A.S.H.T.O. See plans for gauge.
- All filled places under buildings, proposed sanitary and storm sewer lines, and/or paved areas including trench backfills shall be compacted to 95% of maximum density as determined by the Modified A.A.S.H.T.O. T-190 Compaction Test (ASTM D-1557) unless otherwise specified by the local governing authority specifications. All tests will be verified by a soils engineer.
- 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.T.O. T-99 (ASTM D-698) unless otherwise specified by local governing authority specifications. All tests will be verified by a soils engineer.
- 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 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.
- 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.
- All curb inlets to have front of inlet 2' (feet) behind curb.
- 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. 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.
- All water hydrants and valves shall be cast iron and installed in accordance with plans and details.
- All sanitary and storm sewers shall meet all specifications and installation requirements of the local governing authority.
- All PVC water pipe shall have a minimum pressure rating of PR-200 or SDR-21.
- 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 pavement 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 (laterals) shall be 6" diameter.
- Manhole frame and cover shall be Clay and Bailey No. 2008 or Neenah R-1736 or Deeter 1315 or approved equal.
- A drop of 0.2 feet is required through each sanitary manhole.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- Brick shall not be used on manholes.

Project is Served By:
 A. Public Water Supply District #2 (561-3737)
 B. St. Charles Gas Company (946-8937)
 C. G.T.E. Telephone Company (332-7366)
 D. Duckett Creek Sewer District (441-1244)
 E. Ameren U.E. (Electric) (925-3234)
 F. Cottleville Fire Protection District (441-1735)



LOCATION MAP

DRAWING INDEX

Sheet	Description
1	COVER SHEET
2	SITE PLAN
3	GRADING PLAN
4	SITE DETAILS
5	DRAINAGE AREA MAP

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
— Water Line & Size	⊖ Light Standard	V.C.P. Vitrified Clay Pipe
-EX- 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

SITE BENCHMARK

TBM: Cut "□" on conc. median at entrance to
O'Fallon Corporate Center.

ELEVATION = 577.16

PLANNING COMMISSION
APPROVED
 AS NOTED
 12-15-99
 [Signature]
 Cheryl Lumsden

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 this project and specifically excludes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC.
 HAROLD J. BARTCH
 MEMBER
 E-17751
 [Signature] Date 12/15/99

Civil Engineer: Pickett Ray and Silver
 Structural Engineer: Alper Ladd, Inc.

King Safety Products
 O'Fallon, Missouri

Contractor: ARCO Construction Company, Inc.

Architect: Henderson Group

△
 12-07-99 ADDED CURB AROUND STRIPPED ISLAND. ADDED RETAINING WALL. PROFILES BY OTHERS.
 △
 11-16-99 REVISE RETAINING WALL. PARKING CALCULATIONS. BOUNDARY. REVISE RADIUS TO FACE OF CURB

Drawn by: END
 Checked by: R.J. TAYLOR

ISSUE DATE: 10-22-99

PRS JOB# 95144.ARCO.OOC

JOB #189

1 OF 5