O'FALLON NOTES:

- 1. Rip rap shown at flared ends will be evaluated in the field after installation for effectiveness and field modified if necessary to reduce erosion on and off site.
- All paving to be in accordance with St. Charles County standards and specifications except as modified by the City of O'Fallon ordinances.
- 3. Provide a marking on all storm sewer inlets. The City will allow the following markers and adhesive procedures only as shown in the table below or an approved equal by almetek industries. "Peel and stick" adhesive pads will not be allowed.

MANUFACTURER	SIZE	ADHESIVE	STYLE	MESSAGE (PART#)	WEBSITE
ACP INTERNATIONAL	3 7/8	ерюху	crystal cap	no dumping drains to waterways (sd- w-cc)	www.acpinternational.com
DAS MANUFACTURING, Inc.	4"	ерюху	Standard style	no dumping drains to stream (#sds)	www.dasmanufacturing.com

- 4. All pipe joints shall be gasketed 0-ring type.
- 5. Connections at all sanitary and storm structures to be made with A-lock joint or equal.
- All inlets shall have a 5/8" dia, trash bar.
- 7. 0.20' drop is required in all storm sewer and sanitary sewer structures.
- 8. All sanitary laterals shall be a minimum of 6" PVC.
- Brick shall not be used in the construction of sanitary or storm sewer structures. Precast concrete structures are to be used unless otherwise approved by the City.
- 9. All sanitary laterals and sanitary mains crossing under pavement must have the proper rock backfill and required compaction.
- 10. HDPE pipe is to be N-12WT or equal and to meet ASTM F1417 water tight field test.
- 11. Lighting values will be reviewed on site prior to final occupancy inspection. Corrections will need to be made if not in compliance with City Standards.
- 12. All proposed fencing requires a separate permit through the Planning Division.
- 13. All sign locations and sizes must be approved separately through the Planning Division.
- 14. All sign post and backs and brocket arms shall be painted black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB paint (or equivalent as approved by the City and MoDOT). Signs designating Street Names shall be on the opposite side of the street from traffic control signs.
- 15. All utilities will be located underground.
- 16. Trees, organic debris, rubble, foundations and other deleterious material shall be removed from the site and disposed in compliance with all applicable laws and regulations. Landfill tickets for such disposal shall be maintained on file by the developer. Burning on site shall be allowed only by permit from the local fire district. If a burn pit is proposed the location and mitigation shall be shown on the grading plan and documented by the soils engineer.
- All public utilities shall be installed within easements, either existing or to be established on a future record plat.
- 18. All sidewalks, curb ramps, rams and accessible parking shall be constructed in accordance with current approved "American With Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction material, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG guidelines shall take precedence and the contractor prior to any construction shall notify the project engineer. (note that at least one 8' wide handicap access aisle is provided and curb ramps do not project into handicap access aisle.)
- Truncated Domes for curb ramps shall meet ADA requirements and shall be constructed using red pre cast truncated domes such as those manufactured by Armor Tile or approved equal.
- 20. All curbs shall be six (6") inch vertical concrete curbs.
- 21. Grades at entrances shall not exceed 2% for walks, 4% from street and 10% averall. Typically 2% from back of curb through the right of way is desired.
- 22. All water mains shall adhere to the City of O'Falion Specifications.

CONSTRCTION NOTES

- All construction and materials shall conform to City of O'Fallon Sanitary Sewer and Water Division Standards and Specifications.
- 2. Forty-eight (48) hours notice shall be given to the following: City of O'Fallon Sewer Division before construction of sanitary sewers, City of O'Fallon Water Division before construction of water mains, City of O'Fallon Engineering Department before grading, storm sewer, and povement construction begins in order to allow scheduling of required inspections.
- All standard curb inlets are to have front-of-inlet 2'-6" (two and one half feet) behind curb, within public right-of-way, unless otherwise noted.
- All storm sewers shall be Reinforced A.S.T.M. C-76, Class III minimum, unless otherwise shown on the plans.
- All storm sewer pipe in the right-of-way shall be reinforced concrete pipe (A.S.T.M. C-76, Class III minimum).
- 6. The use of High Density Polyethylene Corrugated Pipe (HDPE) with smooth interior wall will be permitted as an acceptable alternative to RCP autside of the Public ROW. Pipe shall meet A.S.T.M. D-2321 A.A.S.H.T.O. M-294-921. Concrete Flared End Sections, Manholes and Inlet Structures shall be required. Material will be continous between structures, splicing is not permitted. HDPE pipe will not be permitted under paved areas or soon to be paved areas. HDPE pipe should provide for a water tight joint such as "Sure-Lok" WT by Hancor, Inc.
- 7. All corrugated steel pipe shall conform to the requirements of AASHTO M-36 and shall be fully coated with bituminous material conforming to the requirements of AASHTO M-190. Corrugated steel pipe shall be helical pipe with reformed ends. Pipes shall be joined using either hugger bands with rubber o-ring gaskets or universal corrugated bands with sponge neoprene gaskets. All gasket materials shall conform to ASTM D-1056.
- 8. Concrete Pipe Joints shall be M.S.D. Type "A" Approved Compression Joints and shall conform to the requirements of the Specification for Joints and Circular Concrete Sewer and Culvert Pipe, using flexible, watertight, rubber—type gaskets A.S.T.M. C—443. Band—Type Gaskets depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
- All sanitary sewer creek crossings shall be protected with grouted rip—rap as directed by district inspectors. All grout shall be high slump ready—mix concrete.
- 10. Eight inch (8") P.V.C. sanitary sewer pipe shall meet the following standards: A.S.T.M. D-3034 SDR-35, with wall thickness compression joint A.S.T.M. D-3212. An appropriate rubber seal waterstop as approved by the sewer district shall be installed between the P.V.C. pipe and masonry structures.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot/ Mission-type couplings will not be allowed.
- Existing sanitary sewer service shall not be interrupted.
- The Contractor shall prevent all storm/surface water, mud or construction debris from entering the existing sanitary sewer system.
- 14. The contractor shall maintain access to existing residential driveways and streets at all times.
- 15. The minimum vertical distance from the low point of the basement to the flowline of the sanitary sewer at the corresponding house connection shall not be less than two and one half feet (2 1/2') plus the diameter of the sanitary sewer.
- 16. All sanitary laterals shown on this plan are to be constructed of 6 inch P.V.C. pipe.
- 17. All P.V.C. sanitary sewer pipe is to be SDR-35 or equal. All P.V.C. sanitary sewer pipe will be constructed with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4" below the pipe to the spring line of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from the spring line of pipe to 6 inches above the top of pipe.
- Brick shall not be used on sanitary manholes.
- All sanitary sewer manhales shall be waterproofed on the exterior in accordance with Missouri D.N.R. Specification 10CSR-8.120 (7) (E).
- 20. All pipes shall have 0.20 feet drop through manholes. No flat base structures are allowed.
- 21. All trench backfills under paved areas shall be granular backfill, and water jetted. All other trench backfills may be earth material (free of large clods or stones) and shall be water jetted.
- All sewer tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for storm sewers, sanitary sewers, and all utilities on the record plat. See record plat for location, size, and width of easements.
- 24. Gas, water, and other underground utilities shall not conflict with the depth or horizontal
- location of existing and proposed sanitary and storm sewers including laterals.

 25. Water main shall be Class 200, SDR- 21 or "Ultra-Blue" PVC, installed with tracer tape and
- locator wire.

 26. Fire hydrants shall be 6 inch 3 way with auxiliary valve, Mueller "Centurion" or American Darling B-84-B
- 27. The contractor shall place all fire hydrants within 3 feet of the street curb.
- 28. The contractor shall place the "steamer" outlet of the fire hydrant toward the street.
- 29. Blow-off hydrants and water meters shall not be located in sidewalks or driveways.

30. Public streets within this set of improvement plans shall be Publicly maintained.

- 31. Public streets and right-of-ways shown on these improvement plans will be dedicated to the City of O'Fallon for public use forever.
- 32. Sidewalk curb ramps, ramp and accessible parking spaces shall be constructed in accordance with the current approved "Americans with Disabilities Act Accessibility Guidelines" (ADAAG) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG guidelines shall take precedence and the Project Engineer shall be notified by the contractor prior to any construction.
- 33. All signs and sign posts shall conform to the City of O'Fallon standards.
- 34. Debris, soil, and other material shall be removed daily from public streets and sidewalks.
- 35. It shall be the responsibility of the contractor/developer to provide traffic control per
- 36. Developer shall assume full responsibility for the maintainence of the temporary sediment basins until vegetation is established.
- 37. Street lights shall conform to the City of O'Fallon Standards.
- 38. The most stringent of the above requirements shall apply.

BELLEAU CROSSING

ARLES ENGINEERING & SURVEYI 801 S. FIFTH STREET, SUITE 202 ST. CHARLES, MO 63301 TEL: (636) 947-0607 FAX: (636) 947-24

ORDER NO. 04-1419-01 DATE

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12/06/07

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