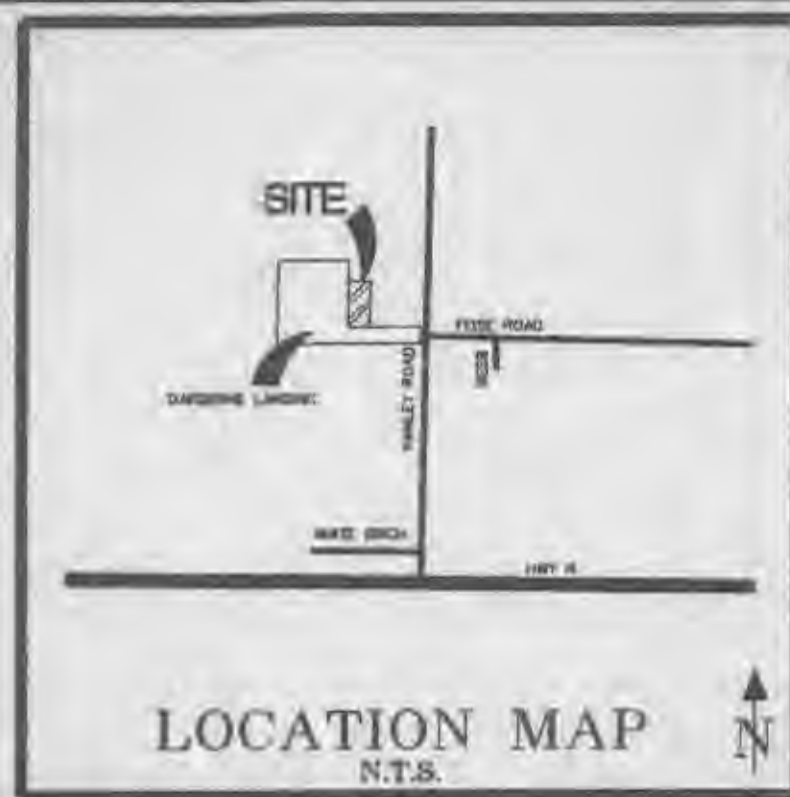


# IMPROVEMENT PLANS FOR DARDENNE LANDING PHASE II

## SECTION 2, TOWNSHIP 46 NORTH, RANGE 2 EAST VILLAGE OF DARDENNE PRAIRIE, ST CHARLES COUNTY, MISSOURI



**DEVELOPMENT NOTES**  
**RESIDENTIAL AREA**  
 AREA OF TRACT: 7.19 Acres  
 EXISTING ZONING: R-1A, R10-PUD (PHASE 1)  
 PROPOSED ZONING: R1-D  
 PROPOSED USE: RESIDENTIAL  
 TOTAL LOTS PROPOSED: 21 SINGLE FAMILY DETACHED

### LEGEND

	SANITARY STRUCTURE	C.O.	CLEAN OUT
	STORM STRUCTURE	T.B.R.	TO BE REMOVED
	TEST HOLE	T.B.R.&R.	TO BE REMOVED & RELOCATED
	POWER POLE	T.B.P.	TO BE PROTECTED
	LIGHT STANDARD	T.B.A.	TO BE ABANDONED
	CURB INLET	B.C.	BASE OF CURB
	DOUBLE CURB INLET	T.C.	TOP OF CURB
	GRATE INLET (EXISTING)	T.W.	TOP OF WALL
	AREA INLET (EXISTING)	TYP.	TYPICAL
	DOUBLE AREA INLET	U.N.O.	UNLESS NOTED OTHERWISE
	FLARED END SECTION	U.I.P.	USE IN PLACE
	END PIPE		EXISTING CONTOUR
	ENERGY DISSIPATOR		PROPOSED CONTOUR
	MANHOLE		TREE LINE
	REINFORCED CONCRETE PIPE		SAN SEWER (EXISTING)
	CORRUGATED METAL PIPE		SAN SEWER (PROPOSED)
	CAST IRON PIPE		STORM DRAIN (EXISTING)
	PVC POLYVINYL CHLORIDE		STORM DRAIN (PROPOSED)
	VCP VITRIPLD CLAY PIPE		PHONE BOX
	GUY WIRE		IRON PIPE
	SIGN		WATER LINE (SIZE)
	POST		HYDRANT
	WATER METER		CONCRETE PAVEMENT
			PLACED RIP-RAP W/UNDERLAIN FABRIC

**RESIDENTIAL DEVELOPMENT DENSITY**  
 TOTAL AREA: 7.19 ACRES  
 TOTAL UNITS: 21  
 DENSITY = TOTAL UNITS (21) / TOTAL AREA (7.19 ACRES)  
 DENSITY = 2.92 UNITS PER ACRE  
 R/W AREA: 1.32 ACRES  
 NET LOT AREA: 5.87 ACRES  
 DENSITY = TOTAL UNITS (21) / NET LOT AREA (5.87 ACRES)  
 DENSITY = 3.58 UNITS PER ACRE

**DARDENNE LANDING PHASE 2 DEVELOPMENT DATA (RESIDENTIAL)**  
 AVERAGE LOT SIZE:  
 AREA MINUS R/W: 5.87 AC  
 TOTAL LOTS: 21  
 5.87 x 43,560 / 21 LOTS = 12,176 SQ FEET  
 MIN LOT SIZE: 10,500 SQ FEET  
 MIN WIDTH AT BLDG LINE: 30 FEET  
 MIN DEPTH OF LOT: 100 FEET  
 MIN FRONT YARD: 25 FEET  
 MIN SIDE YARD: 7 FEET

- GENERAL NOTES**
- Underground utilities have been plotted from available information and therefore their locations shall 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 any grading and/or construction of improvements.
  - Contractor shall be responsible for the protection of all adjacent properties and roadways from siltation and erosion. Methods of controlling erosion and siltation shall not be limited to those shown on the plans.
  - If all control measures are destroyed by heavy rains, vandalism, etc., they are to be replaced immediately by Contractor.
  - All cut and fill slopes shall be a maximum of 3:3% slope (3:1) after grading.
  - All construction and materials shall conform to the current Construction Standards of The Village of Dardenne Prairie, PWSO #2, and St. Charles County.
  - Soil preparation and re-vegetation shall be performed according to Appendix A of the Model Sediment and Erosion Control Regulations for Urban Development.
  - Where natural vegetation is removed during grading, vegetation shall be re-established in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible or during the next seeding period after grading has been completed. Refer to Appendix A of the Model Sediment and Erosion Control Regulations for Urban Development.
  - When grading operations are completed or suspended for more than thirty (30) days, permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the Designated Official's recommendation. Refer to Appendix A of St. Charles Soil and Water Conservation District Model Sediment and Erosion Control Regulations. All finished grades (areas not to be disturbed by improvement) in excess of 20% slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1000 square feet when needed.
  - All fill including filled places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90% of maximum density as determined by the "Modified AASHTO T-180 Compaction Test" (ASTM D1557). All tests shall be verified by a Soils Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be nonyielding and nonpumping during proofrolling and compaction.
  - The vertical grading tolerance shall be plus or minus 0.2 feet for all rough grading.
  - Owner or Developer will assume full responsibility as to the performance of the grading operation and provide assurance that all properties and County roads will be adequately protected.
  - Temporary siltation control measures (structural) shall be maintained until vegetative cover is established at a sufficient density to provide erosion control on the site.
  - Storm sewers 18" diameter and smaller shall be ASTM C-76 Class II unless otherwise shown on the plan.
  - Storm sewers 21" diameter or larger shall be ASTM C-76 Class III RCP unless otherwise shown on the plans. ALSO, any storm sewer pipe, regardless of size, located beneath a street right-of-way or within reasonable probability of being so located, shall be a minimum of Class III, reinforced concrete.
  - All sanitary sewer construction shall conform to current PWSO #2 Standards and Specifications.
  - All water line construction shall conform to St. Charles County Water District #2 and Cottleville Community Fire Protection District standards and specifications.
  - Any wells and/or springs which may exist on this property shall be located and sealed in a manner acceptable to The Village of Dardenne Prairie.
  - 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.
  - Soft soils in the bottom and banks of any existing or former pond sites or tributaries shall 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.
  - Concrete Pipe Joints shall be 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, ASTM C-443 Bond-Type. Gaskets depending entirely on cement for adhesion and resistance to displacement during jointing shall not be used.
  - All manhole tops built without elevations furnished by the Engineer will be the responsibility of the sewer contractor.
  - 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.
  - Equipments shall be provided for storm sewers, sanitary sewers and all utilities on the record plat. See record plat for location and size of equipments.
  - No area shall be cleared without permission of the developer.
  - All standard street curb inlets to have front of inlet 2-feet behind curb.
  - All sanitary building connections have been designed so that the minimum vertical distance from the low point of the basement to the flow line of a sanitary sewer at the corresponding building connection is not less than the diameter of the pipe plus a vertical distance of 2-1/2 feet.

- All sanitary sewer manholes shall be waterproofed to the exterior in accordance with Missouri Department of Natural Resources specifications 10 CSR-8.120 (7) (E).
- Brick shall not be used on sanitary manholes.
- All grout for rip-rap shall be high slump ready-mix concrete.
- All sanitary manholes shall be a minimum of 48" diameter for 10" diameter and larger sanitary sewer lines.
- Public Water Supply District #2 shall be notified at least 48 hours prior to construction of sanitary sewers for coordination and inspection.
- All storm and sanitary trench backfills will be water jetted. Gravel backfill will be used throughout the storm and sanitary trenches as indicated in note 34.
- All PVC sanitary sewer pipe is to be SDR-35 or equal with "clean" 1/2" to 1" granular stone bedding uniformly graded. This bedding shall extend from 4" below the pipe to springline of pipe. Immediate backfill over pipe shall consist of some size "clean" or minus stone from springline of pipe to 6" above the top of pipe.
- All pipes shall have positive drainage through manholes. No flat base structures shall be permitted.
- All streets within this set of Improvement Plans shall be publicly maintained and dedicated to The Town of Dardenne Prairie on acceptance by the Town.
- All fill in proposed and existing right-of-way shall be compacted to 90% maximum density as determined by the "Modified AASHTO T-180 Compaction Test" (ASTM D-1557). Paved areas in cuts shall meet the same compaction requirements. All tests shall be verified by a Soils Engineer concurrent with grading operations.
- Please notify the Chief Inspector of the St. Charles County Highway Department and SBA at 240-2444 twenty-four hours prior to the commencement of grading and/or prior to the commencement of construction.
- 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.
- The Contractor shall prevent all storm water, mud or construction debris from entering the existing sanitary system.
- Water main must be Class 200, SDR-21 PVC, installed with tracer loop and locator wire.
- Fire hydrants shall be 6 inch 3-way with auxiliary valve, Mueller "Centurion" or "Dow Lady" Hydrants shall be installed with the steam connection facing the street.
- Public Water Supply District No. 2 shall be notified at least twenty-four (24) hours prior to the start of water line installation for inspection coordination.
- Existing sanitary sewer service shall not be interrupted.
- Pre-manufactured adapters shall be used at all PVC to DP connections. Rubber boot /Mastic-type couplings will not be allowed.
- All streets and storm sewers are to be constructed to St. Charles County Highway Department specifications.
- Signs shall be placed in front of all inlets and the sign will be removed after each rain. Sign fences will be placed at all uphill corner lots.
- Mud shall be removed from all pavement at the end of each work day by sweeping, brooming and washing as necessary.
- Wind shields will have all sides open unless otherwise noted on plan sheets.

### BENCHMARK

Old Iron Pipe at the Northeast corner of Lot 14 of Dardenne Landing  
 Elevation: 630.50  
 FEMA Datum from Map Number 29183C0220 E, Reference Mark 39  
 ALUMINUM MONUMENT H&V 80-1, ST. CHARLES CO. MAPPING PROJECT  
 1894, THAT IS LOCATED 20 FT. WEST OF THE CENTERLINES OF  
 FEISE AND HANLEY ROADS (USGS) ELEV 619.80.

### SHEET INDEX

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UTILITIES SERVING THIS TRACT:  
 FIRE: WENTZVILLE FIRE PROTECTION DISTRICT  
 WATER AND SEWER: PWSO #2  
 GAS: ST CHARLES GAS CO  
 ELECTRIC: CURVE RIVER ELECTRIC  
 SCHOOL: WENTZVILLE SCHOOL DISTRICT  
 TELEPHONE: GTE TELEPHONE  
 POST OFFICE: O'FALLON POST OFFICE

ALL STREETS SHALL BE CONSTRUCTED TO ST CHARLES COUNTY SPECS  
 ALL PROPOSED UTILITIES SHALL BE LOCATED UNDERGROUND  
 PWS SITE WILL ADDRESS SOIL AS WATER CONSERVATION SERVICE COMMENTS WITH THE IMPROVEMENT PLANS  
 THERE ARE NO DEVIATIONS FROM DISTRICT REQUIREMENTS  
 VET STREET PARKING SHALL BE PROVIDED FOR EACH LOT  
 SIDEWALKS SHALL BE INSTALLED PER DARDENNE PRAIRIE ORDINANCES  
 ALL STREETS SHALL BE 26" SIDE CONCRETE PER COUNTY DESIGN REQUIREMENTS UNLESS OTHERWISE NOTED  
 STREET LIGHTING WILL BE PROVIDED AT INTERSECTIONS AND ON DE SACS AND WILL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION  
 BUILDERS SHALL PROVIDE TWO TREES WITHIN 10 FEET OF THE FRONT PROPERTY LINE ON EACH LOT BY THE TIME OF FINAL SEEDING  
 THIS TRACT IS NOT WITHIN THE 100 YEAR FLOOD PLAN AS SHOWN BY FEMA MAP NO 29183C0220E DATED AUG 2, 1998  
 THIS SITE IS TO BE DEVELOPED IN ONE PHASE

**DEVELOPER:**  
 TMH+LLC  
 114 E ELM STREET  
 O' FALLON, MO 63366  
 636-379-1167

ST. CHARLES ENGINEERING & SURVEYING  
 801 S. FIFTH STREET, SUITE 202  
 ST. CHARLES, MO 63301  
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DARDENNE LANDING PHASE 2  
 COVER SHEET  
 DEVELOPED BY: TMH+LLC

Revised as per County 11/2/00

ORDER NO. 99-0603-01  
 DATE 6/20/06  
 1







