GRADING NOTES:

- 1. All construction methods, materials and practices shall conform to all current applicable specifications of the governing agencies.
- 2. Any destruction of existing improvements or features shall be repaired or replaced in kind by the contractor and shall remain the contractors responsibility.
- 3. 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.
- 4. It shall be distinctly understood that failure to mention specifically any work which would normally be required to complete the project shall not relieve the contractor of his responsibility to perform such work.
- 5. Contractor shall keep road clear of mud and debris.
- 6. All fill areas to be compacted to a minimum of 90 percent of maximum dry density as determined by the Modified AASHTO Compacting Test, ASTM D1557-78, or as specified by the soils engineer.
- 7. It shall be the grading contractors 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.
- 8. It shall be the grading contractors responsibility to verify the location of any existing underground utilities by notifying utility companies prior to grading operations. 9. The grading contractor shall cut or fill to subgrade elevation under all areas to be paved.
- Subgrade depth is 0.5 foot below proposed finished elevations. 10. All drainage swales shall be sodded or seeded and mulched to prevent erosion. 11. 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. 12. Subgrade is included in the total bid yardage. (Subgrade is figured at pavement depth.)
- 13. Slopes to receive fill which are steeper than 5:1 should be benched prior to placement of fill.
- 14. If fill is to be place 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. 15. All grading shall comply with the soils engineer's recommendations.
- 16. Permanent grass is required for areas where grading is completed or a 30 day suspension of any site grading will be imposed.
- 17. A drainage easement will be granted to the City of O'Fallon for any creeks to remain in the development on the record plat.
- 18. 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.
- 19. The installation and maintenance of all siltation controls shall be the responsibility of the developer. 20. Additional siltation control may be required as directed by the local governing authority. 21. All grading area shall be protected from erosion by erosion control devices and/or seeding and
- mulching as required by the City of O'Fallon.
- 22. No portion of any lot will be in the 100 year flood plain after proposed grading is completed. 23. Erosion and sediment control structures shall be maintained throughout the construction process.
- 24. The Developer shall provide the City construction inspectors with soils reports prior to and during site soil testing.
- 25. 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 acceptence 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 silts 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
- 26. 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.
- 27. 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, and storm drainage systems (both on and offsite).
- 28. No graded area shall remain bare for over 6 months without being seeded or mulched. 29. No slope shall exceed 3(horz.):1(Vert.).
- 30. All filled places under proposed storm and sanitary sewer and/or paved areas shall be compacted from the bottom of the fill up 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 AASHOT T-99. A soils engineer concurrent with the grading and backfilling operations shall verify all tests.
- 31. When deemed necessary, positive steps should be exercised to prevent the soil from damaging adjacent property and silting up all storm drainage systems whether on or off site.
- 32. All low places whether on-site of off-site should be graded to allow drainage by installing temporary ditches.
- 33. 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.
- 34. All trash and debris on-site, either existing or from construction, must be removed and disposed of off-site.
- 35. 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.
- 36. 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.
- 37. 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.
- 38. No grading is proposed within the R/W of Hwy. N at this time. Any subsequent grading or construction within state R/W as part of the final improvement plans will require MoDOT approval.
- 39. A LOMR-F (Letter Of Map Revision based on Fill) will be obtained from F.E.M.A. once grading is completed to remove all future lots out of the 100-year flood plain limits.
- 40. 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 and will be noted on the subdivision improvement plans.

THESE PLANS HAVE BEEN REVIEWED BY SCI ENGINEERING, INC. FOR THEIR COMPLIANCE REGARDING GEOTECHNICAL RECOMMENDATIONS RELATIVE TO SITE DEVELOPMENT. BASED ON THIS REVIEW AND AVAILABLE SUBSURFACE INFORMATION, IT IS OUR OPINION THAT THE SITE MAY BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, GOOD CONSTRUCTION PRACTICES, AND THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OF JUNE, 2001.

WE HAVE NOT PREPARED ANY PART OF THESE PLANS AND MY SEAL ON THESE PLANS IS INTENDED ONLY TO CONFIRM MY PERSONAL REVIEW AND APPROVAL TO THE SITE GRADING PLAN AS IT RELATES 15. All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout TO THE STABILITY OT EARTH SLOPES.

SCI ENGINEERING, INC. MUST BE INVOLVED DURING THE CONSTRUCTION PHASE OF THIS PROJECT IN ORDER TO DETERMINE IF SUBSURFACE CONDITIONS ARE AS ANTICIPATED FROM THE FIELD EXPLORATION DATA, THAT OUR RECOMMENDATIONS RELATIVE TO SITE GRADING ARE IMPLEMENTED, AND THAT OTHER GEOTECHNICAL ASPECTS OF SITE DEVELOPMENT ARE PERFORMED IN ACCORDANCE WITH THESE PLANS.

SCI ENGINEERING, INC.

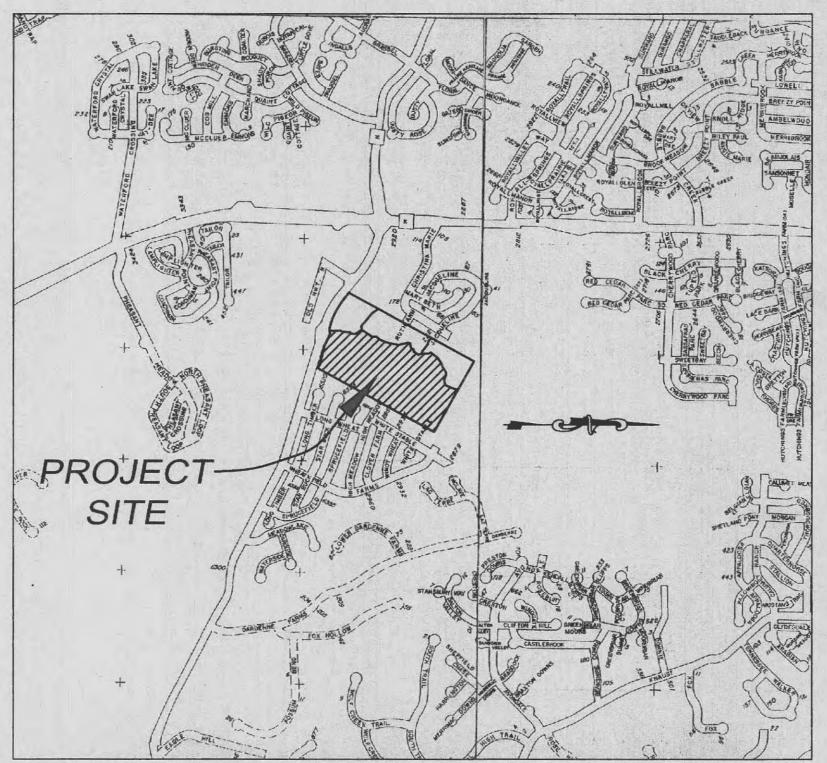
MARSIA GELDERT-MURPHEY, P.E.

DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

- 1. Underground utilities have been plotted from available information considered approximate only. The verification of the location of all either shown or not shown on these plans, shall be the responsibil shall be located prior to any grading or construction of improveme
- 2. Gas, water and other underground utilities shall not conflict with th location of existing or proposed sanitary and storm sewers, including
- 3. All existing site improvements disturbed, damaged or destroyed sha to closely match preconstruction conditions.
- 4. All fill including places under proposed storm and sanitary sewer li including trench backfills within and off the road right-of-way sha per cent of maximum density as determined by the "Modified AASH Test (ASTM D1557)". All tests shall be verified by a Soils Engineer and backfilling operations. the compacted fill shall be free of ruttin non-yielding and non-pumping during proofrolling and compaction.
- 5. The contractor shall prevent all storm, surface water, mud and con entering the existing sanitary sewer system.
- 6. All sanitary sewer flowlines and tops built without elevations furnish be the responsibility of the sewer contractor.
- 7. Easements shall be provided for all sanitary sewers, storm sewers record plat.
- 8. All construction and materials shall conform to the current constru Duckett Creek Sanitary District.
- 9. The Duckett Creek Sanitary District shall be notified at least 48 ho for coordination of inspection.
- 10. All sanitary sewer building connections shall be designed so that the distance from the low point of the basement to the flowline of a corresponding building connection shall not be less than the diame vertical distance of 21 feet.
- 11. All sanitary sewer manholes shall be waterproofed on the exterior i Missouri Department of Natural Resources specification 10 CSR-8.120(7)(E).
- 12. All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- 13. All sanitary and storm sewer trench backfills shall be water jetted. Granular backfill will be used under pavement areas.
- 14. All pipes shall have positive drainage through manholes. No flat invert structures are
- shall be high slump ready-mix concrete).
- 16. Brick shall not be used on sanitary sewer manholes.
- 17. Existing sanitary sewer service shall not be interrupted.
- 18. Maintain access to existing residential driveways and streets. 19. Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber
- boot/Mission-type couplings will not be allowed.

A SET OF IMPROVEMENT PLANS FOR SPRING ORCHARD A TRACT OF LAND BEING PART OF U.S. SURVEY 67,

TOWNSHIP 46 NORTH, RANGE 3 EAST, ST. CHARLES COUNTY, MISSOURI FOR SANITARY & STORM SEWER APPROVAL ONLY



VILLAGES A & B **PROJECT NOTES:** R-1 PUD

Area of Site: <u>59.7 acres</u> Current Zoning: "R-1 PUD"

- 3. Present Owner: Goldkap III, L.L.C. 401 N. Lindbergh Blvd., St. Louis , Mo. 63141
- Lot Data A. Total Units: 187 B. Average Lot size Village A-8,157 sq. ft.
- Average Lot size Village B -8,788 sq. ft. C. Minimum Lot width at building line 70' Village B Minimum Lot width at building line 60' Village A
- Yard set backs: 1. Front - 20' 2. Side - 5' 3. Rear - 15'
- Total area of tract = 59.70 Ac. Common Ground = 12.77 Ac. = 46.93 Ac. Net Total
- 7. Allowable Lots: 59.70 Ac x (43560 Sq.Ft./Ac) 10,000 Sq.Ft allow/lot = 260 Lots
- 8. Net lot Area: 46.93 Ac x (43,560 Sq.Ft./Ac)
- 187 Lots = 10,932 Sq.Ft. /Lots 9. Density Calculations:
- 187 / 59.7 = 3.13 lots per ac.
- 10. Smallest Lot Size = 7,000 Sq. Ft. Village A Smallest Lot Size = 8,000 Sq. Ft. Village B 1. Approximate Structure Coverage is 55%.
- Structure Coverage is based on largest building placed on smallest lot. Village A = 92 - 60' Lots

Village B = 95 - 70' Lots

INDEX OF SHEETS

and therefore shall be Il underground utilities, bility of the contractor and nents.	EXISTING	LEGEND	PROPOSED	1 2-5	COVER SHEET GRADING PLAN
the depth or horizontal ding house laterals.	542	CONTOURS	(542)	6-9	SITE PLANS
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lines and paved areas all be compacted to 90 SHTO T-180 Compaction er concurrent with grading ting and shall be	×		-x-x-x-x-x-	18-20STORM SEWER21-24DRAINAGE ARE25DETENTION CA26-29WATER PLANS	
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shed by the engineer will	(EX)	CATCH BASIN AREA INLET		$\begin{array}{rcrc} \text{CD1} & - & \text{CD4} \\ \text{CD5} & - & \text{CD7} \end{array}$	CONSTRUCTION D.C.S.D. DETAIL
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the minimum vertical sanitary sewer at the neter of the pipe plus the		LATERAL CONNECTION UTILITY OR POWER POLE			
in accordance with .120(7)(E).	ж Б	FIRE HYDRANT TEST HOLE	×		

LANDSCAPE LEGEND EVERGREEN TREE(6' MIN. HT.) WHITE PINES/AUSTRIANS DECIDUOUS TREE(2" MIN. CALIPER PIN OAKS, ASH, SWEET GUM

(TC)

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P.S.

20. Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.

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P.S.

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PARKING STALLS

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