Grading & Drainage General Notes

1. Grading Permit is required for any project disturbing more than 10,000 sf, adding more than 5,000 sf of impervious surface or for any site grading requiring stockpiling of material.
2. The Developer shall provide the necessary labor and supervision required to support field testing by the independent testing firm and inspections by City officials at no cost to the City. Test reports of field testing if applicable shall be submitted directly to the Street Department. Defects disclosed by tests shall be rectified.
3. An authorized representative of the City shall make a final inspection of the project after completion to determine acceptability of the work and for release of performance bonds if required. Before this final inspection can be made, the Engineer responsible for the project shall certify in writing to the City Engineer that the work has been completed in accordance with approved plans and specifications.
4. Drainage facilities including, but not limited to, culverts, detention basins and ditches, as well as the roadway sub-grade, base stone and binder & surface coarse shall be inspected, tested and given approval at each stage of installation prior to proceeding to the next stage of construction. Final construction inspection for approval and acceptance of streets and drainage systems will not be granted until all work has been completed in accordance with the approved plans.
5. Locating and coordination for the relocation of existing utilities is the responsibility of the contractor. Tennessee's One-Call and the City of Franklin utility location service shall be utilized in addition to coordination with local utility owners. The contractor shall at all times protect existing utilities and will be responsible for costs due to damage caused to any utility lines.

Grading & Drainage Data Chart

- Site Area: XXX AC
- Impervious Area: XXX AC
- Disturbed Area: XXX AC
- Rv Value: XX
- Peak Flow Runoff
    - 2 year: XX CFS
    - 5 year: XX CFS
    - 10 year: XX CFS
    - 25 year: XX CFS
    - 50 year: XX CFS
    - 100 year: XX CFS

Standard Pipe and Structure Charts

Pipe Data								
Line	Size (in)	Material	Length (ft)	Slope (%)	Q inlet (cfs)	Q total (cfs)	Capacity (cfs)	Velocity (ft/s)
1-2	15	RCP	50	1.00%	0.32	0.32	6.75	5.21
2-3	18	RCP	75	1.50%	0.75	1.07	10.56	4.35
3-4	24	RCP	65	1.30%	1.21	2.28	28.75	2.36

Structures							
#	Type	TOC Elev	Inv Out Elev	Inv In Elev	Upstream Structure	Depth (ft)	Location
1	Headwall	--	--	597.51	--	--	Franklin Rd, Sta 851+42.72, 20.15 LF
2	Double Grate Inlet	596.01	591.76	591.96	--	4.25	Franklin Rd, Sta 851+02.72, 30.15 LF
3	Single Grate Inlet	595.34	589.56	590.76	1	5.78	N: 571527.29, E: 1709441.55*
				589.76	2		

*Bearings shown hereon are based on the Tennessee Coordinate System of 1983.