



- PLAN-Pg.8 GRADING-Pg.14
- PLAN-Pg.7 GRADING-Pg.13
- PLAN-Pg.6 GRADING-Pg.12
- PLAN-Pg.3 GRADING-Pg.9
- PLAN-Pg.4 GRADING-Pg.10
- PLAN-Pg.5 GRADING-Pg.11

AI 104A Top Elev 616.92 Throat Elev 616.00 Q = 3.99 cfs L = 11.68 Ft H = 0.23 Ft	616.00 Throat .25 1/2 Throat Height 1.00 Free Board .23 Water Height 617.48 Min Berm Elev	AI 102 Top Elev 608.00 Throat Elev 607.08 Q = 3.99 cfs L = 11.68 Ft H = 0.24 Ft	607.08 Throat .25 1/2 Throat Height 1.00 Free Board .24 Water Height 608.57 Min Berm Elev	AI 120 Top Elev 623.00 Throat Elev 622.08 Q = 3.43 cfs L = 11.68 Ft H = 0.21 Ft	622.08 Throat .25 1/2 Throat Height 1.00 Free Board .21 Water Height 623.54 Min Berm Elev	AI 121 Top Elev 625.00 Throat Elev 624.08 Q = 1.45 cfs L = 11.68 Ft H = 0.12 Ft	624.08 Throat .25 1/2 Throat Height 1.00 Free Board .21 Water Height 625.54 Min Berm Elev	AI 117A Top Elev 619.50 Throat Elev 618.58 Q = 1.03 cfs L = 11.68 Ft H = 0.10 Ft	618.58 Throat .25 1/2 Throat Height 1.00 Free Board .10 Water Height 619.93 Min Berm Elev
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The underground utilities shown herein were plotted from available information and do not necessarily reflect the actual existence, maintenance, size, type, number, or location of these or other utilities. The general contractor shall be responsible for verifying the actual location of all underground utilities, shown or not shown, and shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 315, RSMo.

ESTIMATED EARTHWORK QUANTITIES:

BULK CUT	237345.97 C.Y. +/-
BULK FILL (EXCL SHRINKAGE)	253653.22 C.Y. +/-

THE ENGINEER HAS CALCULATED THE ABOVE QUANTITIES OF EARTHWORK TO BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT OR REDISTRIBUTION OF SOILS IN THIS PROJECT. AS AN ESTIMATE, THESE QUANTITIES ARE INTENDED FOR GENERAL USE, AND THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR SHORTAGES OF FILL.

THE ENGINEER'S EARTHWORK ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS REQUIRING EARTHWORK THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT LESS THAN TWENTY-FOUR INCHES IN DIAMETER, STANDARD MANHOLES, PROCESS OR TRANSFER PIPING, ELECTRICAL OR TELEPHONE CONDUITS; BASES FOR LIGHT STANDARDS; BUILDING FOOTINGS AND FOUNDATIONS, ETC.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATING MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND AS SUCH, THE ACTUAL QUANTITIES OF EARTHWORK FROM SUCH ITEMS MAY VARY FROM THE ESTIMATE SHOWN ABOVE.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO REMOVAL OF UNSUITABLE MATERIAL WHICH MUST BE REMOVED FROM SITE.

ZIP CODE : 63366

ST. LOUIS, MISSOURI
E-20332

PLANNING
SURVEYING
CIVIL ENGINEERING

4400 SOUTH LINDBERGH BLVD. SUITE 5, ST. LOUIS, MISSOURI 63127 (314) 849-7800

SUNSET RIDGE ESTATES

DATE: 4/10/96	JOB NO.: 95-541	DRAWN BY: TWF
DESIGN: JOY		SCALE: 1" = 50'

GRADING PLAN

REV. 4/24/96 per CITY OF OTTAWON
8/30/96 per CLIENT REVISIONS
10/23/96 per CITY COMMENTS

SHEET 9 OF 56