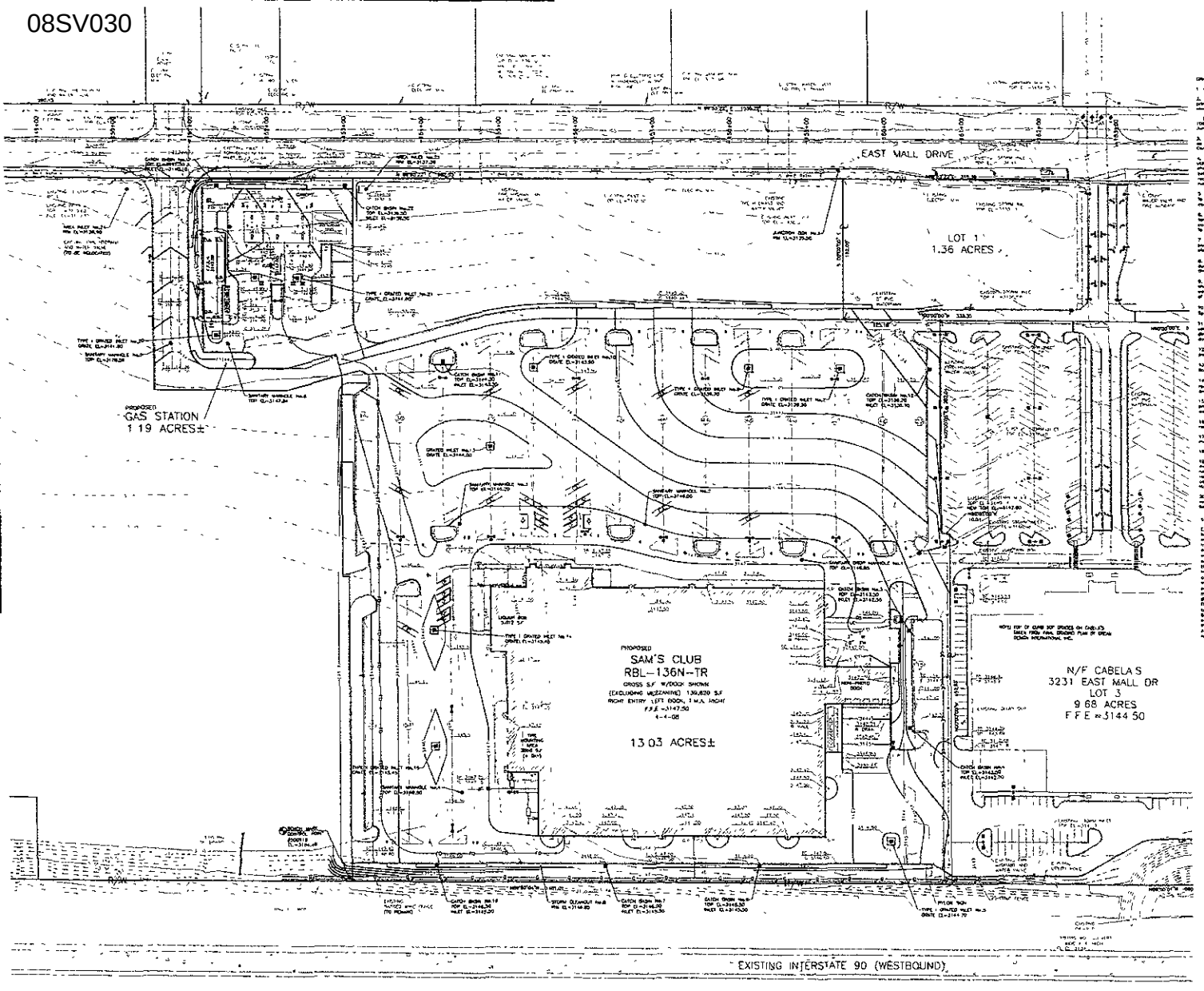
08SV030

GRADING PLAN



GRADING NOTES

1. Inserts deleted here.

2. Contractor shall verify elevations of entrances, approximate points of tie to existing pavement, and grades at the start of construction. Contractor shall notify engineer of any discrepancies.

3. The site shall be graded to drain as shown on the plans. Minimum slope of pavement shall be 1.00% and maximum slope of pavement shall be 5.00%. Minimum slope of grass areas shall be 2.00% and maximum slope of grass areas shall be 10.00%. Contractor is responsible for correcting any ponding areas that occur due to construction deficiencies.

4. Contractor to temporarily maintain and keep free of sediment all streets, sidewalks, utilities and other facilities during the entire construction period. Contractor shall provide all necessary measures, as directed by the Engineer, to control erosion and sedimentation during the entire construction period. Contractor shall be responsible for all damages caused by soil erosion and sedimentation and shall repair all damages to the satisfaction of the Engineer.

5. All construction signs and all barricades and warning lights required and maintaining them shall be furnished by the Contractor at his own expense. Contractor shall furnish, install and maintain all traffic control devices as required by the Engineer.

6. All unsuitable ground such as muck, peat, or unstable soil shall be removed and replaced with suitable material as directed by the Engineer. Contractor to grub, mulch, backfill, and compact all stumps, roots, brush, and other objectionable material from within the limits of construction. Contractor shall remove from the site all debris resulting from grubbing operations.

7. The contractor has all building foundations and areas shall be in accordance with building plans, a recommendations, and the geotechnical investigation report.

8. The contractor is responsible for keeping storm water, rainwater and groundwater out of the excavations. Dewatering shall be done in accordance with the Erosion and Sediment Control Plan.

9. The Contractor shall coordinate his work as a subcontractor material or grades as required by the Engineer. Contractor shall coordinate his work with parking lots and other subcontractors of improvements to insure that all grades are correct and that drainage is adequate. Contractor shall be responsible for any damage to improvements caused by his operations.

10. The elevations for this project shall meet or exceed the Two-Hundred Elevation.

11. Compaction shall refer to embankment areas for roads, driveways, and embankments, and building pads, unless otherwise noted. Compaction shall be in accordance with the Geotechnical Report.

12. Location of proposed trees or shrubs proposed may be moved within the first four feet of the property line to avoid conflicts with utilities.

13. All existing improvements designated during construction shall be removed in a manner approved by the Engineer. All trees shall be cut flush with the ground.

14. Prior to any excavation, the contractor shall contact all utility companies and have the location of their utilities marked in the field. Contractor shall be responsible for protecting all utilities during construction.

15. The Contractor shall verify, and be responsible for all dimensions and conditions shown on these plans. Any discrepancy between the topography and existing conditions in the field shall be reported to the Engineer before any work is performed.

16. Prior to commencing construction, the Contractor shall meet with the Engineer to review the approved plans and specifications. The Contractor shall notify the Engineer at least 48 hours prior to beginning construction.

17. The Contractor shall notify, and/or obtain permits from, any governmental agency having jurisdiction over this project prior to beginning construction.

18. Quantities of improvements shown are for reference only. It is the responsibility of the Contractor to determine the quantities necessary to construct the improvements shown on these plans.

19. Just before beginning grading, the top 6" of topsoil shall be removed and stockpiled in areas designated by the Engineer. Topsoil shall be used in landscaped areas only.

SITE PREPARATION AND DEMOLITION

Existing improvements, utilities, structures, and trees shown scheduled for removal shall be removed from the site. Contractor shall be responsible for the removal and disposal of all materials encountered during these site improvements, including but not limited to, abandoned utilities, concrete, asphalt, trees, and vegetation. Contractor shall be responsible for the removal and disposal of all unsuitable materials encountered during excavation. Unsuitable materials shall be defined by the geotechnical engineer. Unsuitable materials may include, but are not limited to, soils containing moisture in excess of ±2% above optimum moisture content, soils containing debris or organic matter, soils containing rock or stone larger than 6" in any dimension, or soils which in the opinion of the geotechnical engineer are otherwise unsuitable. Unsuitable materials shall be removed to the full depth of the material, and shall be replaced with suitable material as directed by the geotechnical engineer. The top 12 inches of compacted fill should have a maximum 3 inch particle diameter, and all underlying compacted fill a maximum 6 inch particle diameter. The engineer of record or geotechnical engineer shall be present during placement and compaction of all compacted fill to observe that adequate compaction is being obtained. Compacted fill shall be constructed of approved materials free of trash, debris, or other objectionable materials. Fill shall be compacted in layers not to exceed 10" loose and each layer shall be compacted to the following minimum standards:

a. Fill material for areas to be paved shall be compacted to a density of not less than 95% of maximum dry density as determined by ASTM D-698 (Standard Proctor).

b. Fill material for areas to be landscaped shall be compacted to a density of not less than 90% of maximum dry density as determined by ASTM D-698 (Standard Proctor).

c. Fill material for areas to be occupied by buildings shall be compacted to a density of not less than 95% of maximum dry density as determined by ASTM D-698 (Standard Proctor).

Fill material shall be moisture conditioned to within ±2% of optimum moisture content. Fill material shall be approved by the owner's representative or geotechnical engineer before placement. Fill material shall be tested by the geotechnical engineer at a minimum frequency of one test per 2,500 cubic yards placed. Fill material not meeting the above requirements shall be removed and replaced with suitable material. All material used to support the site will be determined by the owner's or the geotechnical representative.

GRADING LEGEND	
DESCRIPTION	EXISTING
AERIAL ELECTRIC	
UNDERGROUND ELECTRIC	
UNDERGROUND TELEPHONE	
GAS LINE	
WATERLINE	
SANITARY SEWER	SS
STORM SEWER	
EASEMENT	
PROPERTY LINE	
GUARD RAIL	
CHAINLINK FENCE	
BARBWIRE FENCE	
CONTOURS	
UTILITY POLE	
GUARD POST	
SANITARY MANHOLE	
INLET	
FIRE HYDRANT	
CATCH BASIN	
JUNCTION BOX	
FLARED END SECTION	
CLEANOUT	
GRATED INLET	
SOIL BORING	

SPOT GRADE LEGEND	
TOP OF CURB	TC
FLOW LINE	FL
PAVEMENT ELEVATION	PE
INTERIOR FINISHED FLOOR	FF
GRATED TALLBOY	GT
TOP OF CURB	TC

REVISIONS

BFA
CONSULTING ENGINEERS & SURVEYORS

PRELIMINARY DRAWING

FOR REVIEW PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION

SAM'S CLUB #6565-09
RAPID CITY, PENNINGTON COUNTY, SD
SAM'S WEST, INC. 2001 SE 10TH ST.
BENTONVILLE, AR 72716