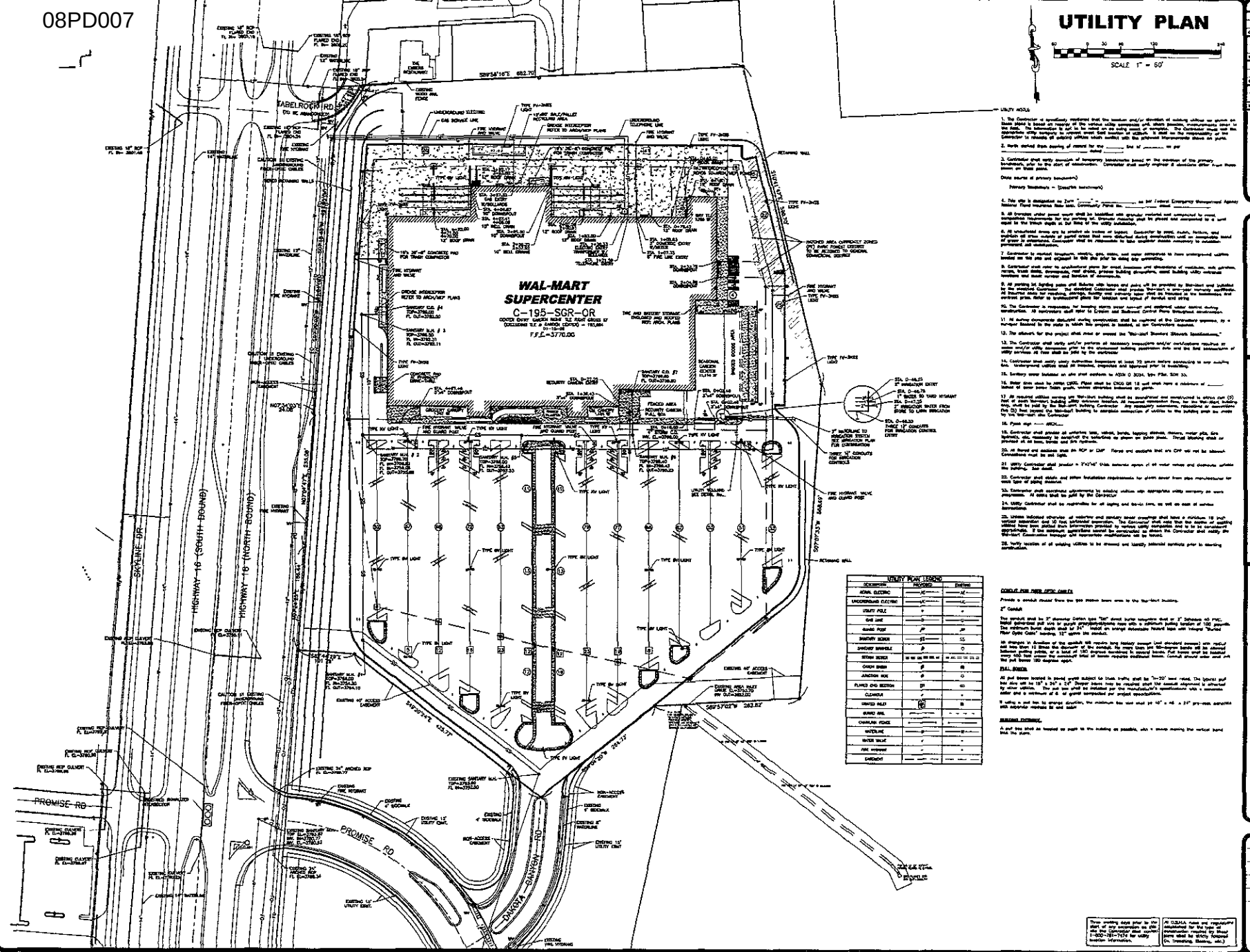
08PD007



UTILITY PLAN

SCALE 1" = 60'

UTILITY NOTES

1. The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on information furnished by the various utility companies, municipalities, or other sources. The information is not to be relied upon as being exact or complete. The Contractor must call the appropriate utility company for verification prior to construction. It shall be the responsibility of the Contractor to relocate all existing utilities which conflict with the proposed improvements shown on plans.

2. Work started from point of control by the _____ line of _____ on per _____.

3. Contractor shall verify elevation of temporary benchmarks given by the engineer of the primary benchmarks prior to the start of construction. Contractor shall verify elevation of elevations either from those shown on these plans.

Other sources of primary benchmarks:

Primary Benchmark = (Describe benchmark)

4. This site is designated as Zone "_____" _____ on the Federal Emergency Management Agency National Flood Insurance Rate Map, Community Panel No. _____ dated _____.

5. All trenches under paved areas shall be backfilled with granular material and compacted to 95% maximum density. Recommendations for the backfill of trenches under paved areas shall be made by the soil engineer in the soils report and shall be the responsibility of the Contractor to relocate all existing utilities which conflict with the proposed improvements shown on plans.

6. All surface drainage, utility and other facilities occupying or crossing dedicated easements shall be constructed and maintained in such manner as not to interfere with the operation of said facilities. Any driveways, walks, fences, trees, shrubs or other improvements placed in such easements shall be constructed and maintained at the risk of removal without compensation for replacement.

7. Contractor to maintain compliance with all applicable local, state, and federal requirements for storm water discharges associated with construction activities.

8. Contractor shall refer to architectural plans for exact locations and dimensions of vestibules, exit corridors, ramps, trash areas, dumpsters, roof drains, grease trapping arrangements, water building utility entrances and all other details not shown on civil plans.

9. All planting bit lighting poles and bollards within lanes and parks will be provided by Wal-Mart and installed by the Contractor. The Contractor shall coordinate with the Wal-Mart Representative for the location of all electrical units for monitoring, planting, flexibility and continuity type shall be installed at the manufacturer and electrical areas. Refer to landscaped plans for location and types of flexible and wiring.

10. The Contractor is responsible for handling storm water run-off and sediment water control during construction. All contractors shall refer to Erosion and Sediment Control Plans throughout construction.

11. All curbing encountered during construction shall be replaced at the Contractors expense, by a matched section to that in the state. Contractor is responsible to backfill behind curb.

12. The elevation for this project shall refer or exceed the "Wal-Mart Standard Elevation Specifications."

13. The Contractor shall verify and/or perform all necessary investigations and/or coordinations required for water and for utility connection prior to the start of construction. Contractor shall notify the owner of the interruptions of utility services. All fees shall be paid by the contractor.

14. Contractor shall verify utility authorities inspections at least 72 hours before connecting to any existing line. Underground utilities shall be installed and approved prior to backfilling.

15. Sanitary sewer installed on site shall conform to ASTM D 3034, SDR PSM, SDR 35.

16. Water lines shall be ASTM D2951, Class shall be C900 DR 18 and shall have a minimum of _____ inches of cover below finish grade, unless otherwise indicated on plans.

17. All required utilities serving the Wal-Mart building shall be coordinated and constructed to within five (5) feet of the building footprint. Contractor shall coordinate with the Wal-Mart Representative for the exact location of the gas, shall be held by the Wal-Mart Representative. Any modifications or relocations of the five (5) feet beyond the footprint building to accommodate completion of utilities to the building shall be made by the Wal-Mart Representative.

18. Fence map ——— ARCH.

19. Contractor shall provide all underfloor lines, valves, bends, tapping sleeves, fittings, meter pits, fire hydrants, etc., necessary to construct the water lines as shown on these plans. Thrust blocking shall be required at all bends, tees and fire hydrants.

20. All thermal and insulation shall be NON or CMP. Fibrous and insulation shall not CPP will not be allowed. Consolidated must be and light.

21. Utility Contractor shall provide a 3'x3'x6" thick reinforced apron at all water valves and underground utilities as shown on plans.

22. Contractor shall obtain and follow installation requirements for all items taken from shop manufacturer for each type of piping material.

23. Contractor shall coordinate adjustments to existing utilities with appropriate utility company as work progresses. All costs shall be paid by the Contractor.

24. Utility Contractor shall be responsible for all taping and bacto lines, as well as clean at surface terminations.

25. Unless indicated otherwise, all underdrain and sanitary sewer encounter shall have a minimum 10 inch separation between and 18 inch separation between all water lines. Contractor shall notify the engineer if utilities have been placed such interferences prevent the minimum utility separations and he is to be consulted with the Wal-Mart Representative before proceeding with construction. Contractor shall notify the Wal-Mart Construction Manager and representative modifications are to be taken.

26. Verify location of all existing utilities to be shown and identify potential conflicts prior to starting construction.

UTILITY PLAN LEGEND

DESCRIPTION	PROPOSED	EXISTING
AERIAL ELECTRIC	AE	AE
UNDERGROUND ELECTRIC	UE	UE
UTILITY POLE	●	●
GAS LINE	G	G
GUARD POST	GP	GP
SANITARY SEWER	SS	SS
SANITARY MANHOLE	S	S
STORM SEWER	SD SD SD SD SD	SD SD SD SD SD
CURB INLET	CI	CI
JUNCTION BOX	JB	JB
FLARED END SECTION	FES	FES
CLEANOUT	CO	CO
GRATED INLET	GI	GI
GUARD RAIL		
CHAINLINK FENCE		
WATERLINE	W	W
WATER VALVE	⋈	⋈
FIRE HYDRANT	⋈	⋈
EASEMENT		

CONDUIT FOR FIBER OPTIC CABLES

Provide a conduit stubout from the pad station town area to the Wal-Mart building.

3" Conduit

Conduit shall be 3" diameter Carlon type "Set" direct burial corrugated steel or 3" Schedule 40 PVC. Install galvanized pull wire in conduit with minimum 200 lb. tensile strength. Install a minimum 12" of orange polyethylene hazard tape with message "Buried Fiber Optic Cable" located 12" above the conduit.

All changes in direction of the conduit will require long radius conduit and standard elbows. Do not exceed less than 24 inches. Do not exceed 180 degrees between pull points. Install pull boxes at each bend, tangent, splicing point, or a total of 180 degrees between pull boxes. Pull boxes shall be installed at each end of the conduit run. Maximum total of bends required between pull boxes. Conduit shall be laid with 4" pull between 180 degrees apart.

PULL BOXES

All pull boxes installed in paved areas subject to truck traffic shall be "H-20" load rated. The spacing pull box size will be 18" x 24" x 24". Deeper boxes may be required when the conduit alignment is affected by other utilities. The pull box shall be installed per the manufacturer's recommendation with a concrete collar and a minimum of 6" of gravel compacted for proper compaction.

If using a pull box to change direction, the minimum box size shall be 48" x 48" x 24" pre-cast concrete with appropriate openings for duct bank.

PULLING EQUIPMENT

A pull line shall be installed as much as the building as possible, with 4 inches marking the vertical bend and the drum.

Three working days prior to the start of any excavation on site the Contractor shall contact 1-800-781-7474 for utility location information.

ALL DRAWINGS, plans and reproductions established for the sole purpose of construction contained by these plans shall be strictly forbidden (ie. Marketing, Blueprints, etc.)

REVISIONS

1		
2		
3		
4		

BFA
CIVIL ENGINEERS
SURVEYORS
PLANNERS
LANDSCAPE ARCHITECTS
ENVIRONMENTAL SCIENTISTS
TULSA, OKLAHOMA (918) 584-1717

PRELIMINARY DRAWING

FOR REVIEW PURPOSES ONLY
NOT TO BE USED FOR CONSTRUCTION

WAL-MART SUPERCENTER #3672-02
RAPID CITY, PENNINGTON COUNTY, S.D.
WAL-MART STORES, INC 2001 SE 10TH ST.
BENTONVILLE, AR 72716

DRAWN: J.T.W., T.J.H.
CHECKED: S.T.C.
DATE: 02/03/03
SCALE: 1"=60'
JOB No: 06-2555
SHEET NAME: UTILITY PLAN