

LEGEND

- EXISTING STORM SEWER PIPING
- STORM SEWER PIPING
- CLEAN OUT
- DRAINAGE STRUCTURE INDICATOR
- GRATED DROP INLET
- TWO-WAY CLEAN OUT
- SLOPE ARROW
- CONCRETE FLUME
- FLARED END SECTION
- RIP RAP APRON
- PRECAST HEADWALL STRUCTURE
- CURB INLET
- 6" CHAIN-LINK FENCE
- GUIDE RAIL
- PROPOSED CONTOURS
- EXISTING CONTOURS
- BREAK LINE
- SINGLE FIXTURE LIGHT POLE AND BASE
- 2 FIXTURE LIGHT POLE AND BASE
- 3 FIXTURE LIGHT POLE AND BASE
- SHIELDED 2 FIXTURE LIGHT POLE AND BASE
- SPOT ELEVATION
- EXISTING TREES
- SWALE

GRADING NOTES

- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: (SEE MASTER SITE SPECIFICATIONS SECTION 02630 FOR ALLOWED MATERIALS. CEC TO LIST SPECIFIC PIPE MATERIALS ON THIS PLAN IF REQUIRED.)
- EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.
- PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE WAL-MART SPECIAL CONDITIONS SECTION 8. ENVIRONMENTAL COMPLIANCE AND STORM WATER POLLUTION PREVENTION. THIS APPLIES TO WAL-MART BUILT PROJECTS ONLY.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.

DEWATERING NOTE:

WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.

REFER TO MASTER SITE SPECIFICATIONS.

ALERT TO CONTRACTOR:

ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES, AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

REFER TO GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION (SHEET NS-1)

APPROVED: Engineering Date

APPROVED: Planning Date

FUEL STATION FOUNDATION SUBSURFACE PREPARATION
WALMART #1202-1009
CHRISTIANSBURG, VA
8/15/25

UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE DRAWINGS AND/OR SPECIFICATIONS, THE LIMITS OF THIS SUBSURFACE PREPARATION ARE CONSIDERED TO BE THAT PORTION OF THE SITE DIRECTLY BENEATH AND 2.5 FEET BEYOND THE FUEL STATION SERVICE BUILDING, AS WELL AS DIRECTLY BENEATH CANOPY FOUNDATIONS. AT THE SERVICE BUILDING, THE EXTENTS OF SUBSURFACE PREPARATION SHALL BE SLOPED AWAY FROM THE 2.5 FOOT PERIMETER AT A MINIMUM 1:1 SLOPE.

AT THE SERVICE BUILDING AND FLATWORK SLABS, ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CONCRETE SLAB, BASE, AND SUBBASE. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED SLAB THICKNESS. FOR THE SERVICE BUILDING INTERIOR SLAB ON GRADE, THE MINIMUM 6" THICK BASE MATERIAL SHALL CONFORM TO VDOT SPECIFICATIONS. FOR FLATWORK SLABS, THE 6" BASE MATERIAL SHALL CONFORM TO VDOT. THE 6" SUBBASE MATERIAL SHALL BE VDOT 21A OR GRADATION PER ASTM D1241.

AT THE CANOPY FOUNDATIONS, ESTABLISH THE FINAL SUBGRADE ELEVATION TO ALLOW FOR THE CANOPY CONCRETE FOUNDATIONS AND SUBBASE (IF SUBBASE IS REQUIRED BELOW FOUNDATIONS). REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED FOUNDATION THICKNESS. THE 6" SUBBASE MATERIAL SHALL BE VDOT 21A OR GRADATION PER ASTM D1241

AT THE CANOPY SLAB, THE MINIMUM 6" THICK BASE MATERIAL SHALL CONFORM TO VDOT SPECIFICATIONS.

AT ALL LOCATIONS IN THE FUEL STATION AREA, THE BASE AND/OR SUBBASE SHALL BE PROVIDED BY THE BUILDING CONTRACTOR IN JOINT PROJECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCURATE MEASUREMENTS FOR ALL CUT AND FILL DEPTHS REQUIRED. ANY PROPOSED EQUIVALENT ALTERNATIVE BASE OR SUBBASE MATERIAL MUST BE SUBMITTED FOR APPROVAL WITHIN 30 DAYS AFTER AWARD OF CONTRACT. ANY EQUIVALENT ALTERNATIVE SHALL ONLY BE USED IF APPROVED IN WRITING BY THE CEC AND AOR.

EXISTING FOUNDATIONS, SLABS, PAVEMENTS, AND BELOW-GRADE STRUCTURES SHALL BE REMOVED FROM THE FUEL STATION AREA. REMOVE SURFACE VEGETATIONS, TOPSOIL, ROOT SYSTEMS, ORGANIC MATERIAL, EXISTING FILL, AND SOFT OR OTHERWISE UNSATISFACTORY MATERIAL FROM THE FUEL STATION AREA. PROOFROLL EXPOSED SUBGRADE. REMOVE AND REPLACE UNSATISFACTORY AREAS WITH SATISFACTORY MATERIAL. SUBGRADE MATERIAL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS AND SHALL MEET THE FOLLOWING REQUIREMENTS:

LOCATION	P.I.	L.L.
FUEL STATION SERVICE BUILDING AREA	20 MAX	45 MAX
FUEL STATION CANOPY FOUNDATIONS	20 MAX	45 MAX
FUEL STATION CANOPY SLAB	20 MAX	45 MAX

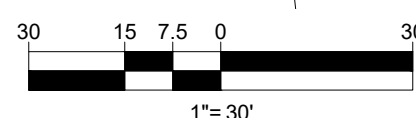
SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 98% AND 95% PERCENT, FOR BUILDING AND PAVEMENT AREAS RESPECTIVELY, OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) AT A MOISTURE CONTENT WITHIN 3 PERCENT BELOW TO 3 PERCENT ABOVE THE OPTIMUM.

THE FOUNDATION SYSTEM SHALL BE ISOLATED SPREAD FOOTINGS AT CANOPY AND SERVICE BUILDING COLUMNS, AND CONTINUOUS SPREAD FOOTINGS AT SERVICE BUILDING WALLS.

THIS FOUNDATION SUBSURFACE PREPARATION DOES NOT CONSTITUTE A COMPLETE SITE WORK SPECIFICATION. IN CASE OF CONFLICT, INFORMATION COVERED IN THIS PREPARATION SHALL TAKE PRECEDENCE OVER THE WALMART SPECIFICATIONS. REFER TO THE SPECIFICATIONS FOR SPECIFIC INFORMATION NOT COVERED IN THIS PREPARATION. THIS INFORMATION WAS TAKEN FROM A GEOTECHNICAL REPORT PREPARED BY ECS MID-ATLANTIC, LLC, DATED AUGUST 15, 2025 (GEOTECHNICAL REPORT IS FOR INFORMATION ONLY AND IS NOT A CONSTRUCTION SPECIFICATION).

SPECIFIER'S NOTE:
An E-Mail address for the Geotechnical Engineer
OMERIDA@ECSLIMITED.COM

- Additional Requirements:
- A final review of the pad prep before the construction documents are completed is required.
 - The email address of the Geotechnical Engineer shall not show on the final pad prep note on the construction documents.



GRADING AND DRAINAGE PLAN

REVISIONS	BY

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CHRISTINA D. HUGHES
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11/26/2025
PROFESSIONAL ENGINEER

811
Know what's below.
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NOT APPROVED FOR CONSTRUCTION

SUPERCENTER #1292-1008
2400 N FRANKLIN ST.
CHRISTIANSBURG, VA 24073
WALMART REAL ESTATE BUSINESS TRUST
2608 SE J STREET
BENTONVILLE, AR 72716

walmart
Supercenter

DRAWN	MKEN
CHECKED	CDH
DATE	11/26/2025
JOB No.	VAC250061.00 GRAD
SHEET TITLE	

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