UTILITY LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
	SANITARY LABEL	
	STORM LABEL	
	SANITARY SEWER LATERAL	
	UNDERGROUND WATER LINE	
	UNDERGROUND ELECTRIC LINE	
	UNDERGROUND GAS LINE	
	OVERHEAD WIRE	
	UNDERGROUND TELEPHONE LINE	
	UNDERGROUND CABLE LINE	
	STORM SEWER	
	SANITARY SEWER MAIN	
	HYDRANT	
	YARD HYDRANT	
	SANITARY MANHOLE	
	STORM MANHOLE	
	WATER METER	
	WATER VALVE	
	GAS VALVE	
	GAS METER	
	TYPICAL END SECTION	
	HEADWALL OR ENDWALL	
	YARD INLET	
	CURB INLET	
	CLEAN OUT	
	ELECTRIC MANHOLE	
	TELEPHONE MANHOLE	
	ELECTRIC BOX	
	ELECTRIC PEDESTAL	
	MONITORING WELL	
	TEST PIT	

UTILITY NOTES:

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. WATER LINES SHALL BE AS FOLLOWS: 3" AND LARGER: DUCTILE IRON PIPE CLASS 52. ALL DUCTILE IRON PIPE SHALL BE PROVIDED WITH POLYETHYLENE CASING. SEAMLESS COPPER TUBE: TYPE "K" WILL BE USED FOR THE 2" WATER SERVICE LINE BETWEEN THE WATER MAIN AND TOWN WATER METER. SEE DETAIL WS-2, SHEET D-8.
4. TRENCH WIDTHS TO BE BASED ON PIPE DIAMETERS PER TOWN DETAILS SD-5 AND WD-12 TO ALLOW SUFFICIENT WORKSPACE FOR PROPER BEDDING AND COMPACTION. SEE SHEET D-11.
5. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS SHOWN ON THE TOWN DETAIL.
6. IF FEASIBLE ALL UTILITIES SHOULD BE KEPT TEN (10') CLEAR (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATERLINES UNLESS OTHERWISE SPECIFIED.
8. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
10. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
11. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (TOWN OF LEESBURG) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
15. 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.
16. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
17. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
18. UTILITIES SHOWN AS EXISTING IN PUBLIC R/W (WATER, SEWER, STORM) AND THE ROADWAYS THEMSELVES ARE NOT CONSTRUCTED AS OF THIS DATE. THIS INFRASTRUCTURE IS PROPOSED TO BE BUILT AS SHOWN (BY OTHERS) BUT MAY NOT ALL BE COMPLETED AT TIME OF WALMART'S CONSTRUCTION.
19. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
20. ALL CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES MUST BE CORE DRILLED WITH A N APPROVED FLEXIBLE SLEEVE ADDED.
21. FOR GRAVITY SEWER APPLICATIONS: DUCTILE IRON PIPE AND FITTINGS (EPOXY COATED CLASS 50) ARE REQUIRED FOR PIPE DEPTHS LESS THAN 4-THAT ARE SUBJECT TO VEHICULAR LOADING .
22. ALL PIPE JOINTS AND CONNECTIONS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER, ASTM AND VDOT PROVISIONS, SPECIFICATIONS AND STANDARDS SO AS TO BE SOIL TIGHT AND LEAK RESISTANT.
23. ALL THERMOPLASTIC, HDPE, PE AND NON-CONCRETE PIPE JOINTS AND CONNECTIONS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SUPPLIED BY THE MANUFACTURE AND SHOWN ON THE PLAN. WHEN CONNECTING TO DRAINAGE STRUCTURES (PRE-CAST, CAST-IN-PLACE, CONCRETE BLOCK, BRICK, ETC.) ALL PIPES MUST BE INSTALLED IN ACCORDANCE WITH ASTM AND VDOT REQUIREMENTS AND THE TOWN OF LEESBURG DESIGN AND CONSTRUCTION STANDARDS TO ELIMINATE THE POTENTIAL FOR SHEAR FAILURE, TO BE SOIL TIGHT, AND LEAK RESISTANT (FLEXIBLE CONNECTORS).
24. FOR CONNECTIONS TO EXISTING UTILITIES, SEE "COMPASS CREEK COMMERCIAL CENTER PHASE 1 INFRASTRUCTURE PLAN" CPAP-2014-0034. SEE PAGES 66 AND 68 FOR STORM CONNECTIONS AND PAGE 83 FOR SANITARY SEWER CONNECTIONS. SEE PAGE 89 FOR WATER MAIN CONNECTIONS.
25. ALL HYDRANTS, FIRE LINES, STUB-OUT VALVES, BENDS, TEES, CROSSES, WYES, PLUGS AND CAPS SHALL HAVE POURED-IN-PLACE CONCRETE ANCHOR THRUST BLOCKS AGAINST UNDISTURBED EARTH.
26. STRUCTURES A19 AND B19 PROPOSED AS SIPHONIC MANHOLES WITH SLOTTED GRATES.
27. PULL BOXES SERVING TELEPHONE AND FIBER OPTIC CONDUIT TO FUTURE FUEL STATION SHALL BE 18"X24"X24" AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS WITH A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL BEDDING COMPACTED PER THE PROJECT SPECIFICATIONS.

UTILITY KEYNOTES

- (A) APPROXIMATE LOCATION 6" [illegible]RY SEWER LATERAL AT 1.0% MINIM[illegible] SLOPE. COORDINATE WITH ARCH[illegible] PLANS
- (B) GAS ENTRY W[illegible]METER. C[illegible]ACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD [illegible] METER[illegible]TRACTOR SHALL COORDINATE WITH GAS COMPAN[illegible] FOR CON[illegible]ON OF IN[illegible]AL METER.
- (C) CONTRA[illegible]TOR IS [illegible]SPONSIBLE FOR C[illegible]DINATION WITH GAS COMPANY REGARDING INSTALL[illegible] SERVICE LINE.
- (D) [illegible]" PVC C[illegible]IT FOR TAMPER [illegible]WITCH TO RUN ADJACENT TO 12" FIRE SERVICE LINE [illegible] DETEC[illegible] CHECK.
- (E) [illegible]POSED [illegible]NSFORMER PAD. CONTRACTOR TO VERIFY EXACT [illegible]TION AND [illegible] POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR S[illegible]E RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT AND PIPE BO[illegible] REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COO[illegible]E SAID WORK WITH THE ELECTRIC COMPANY. FINAL LOCATION OF TRA[illegible]RMER AND BOLLARD CANNOT CONFLICT WITH TRUCK ACCESS TO DOCK DOOR.
- (F) [illegible]ERGROUND TELEPHONE TO BE EXTENDED TO BUILDING BY TELEPHONE COMPANY.
- (G) CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF ANY ADDITIONAL OVERHEAD TELEPHONES LINES. CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY TO INSURE PROPER SEPARATION BETWEEN OVERHEAD LINES AND LIGHT POLES.
- (H) 3" DOMESTIC WATER LINE ENTRY PER TOWN OF LEESBURG REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH TOWN OF LEESBURG.
- (I) SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC., MEETING TOWN OF LEESBURG SPECIFICATIONS.
- (J) PROPOSED FIRE HYDRANT AND ASSEMBLY, TYPICAL AS INDICATED. SEE DETAIL SHEET 62 OUT OF 100.
- (K) REMOTE GARDEN CENTER UTILITIES PIPE BOLLARD. SEE DETAIL SHEET 62 OUT OF 100.

NO LP CAMERAS ARE REQUIRED WITH THIS PLAN.

- (L) ALL LP CAMERA PULL BOXES LOCATED IN PAVED AREAS SUBJECT TO TRUCK TRAFFIC SHALL BE "H-20" LOAD RATED. THE TYPICAL PULL BOX SIZE WILL BE 17" X 30" 28""QUAZITE" PG1730BA28 BOX WITH PG1730HH00 LID, OR APPROVED EQUAL. DEEPER BOXES MAY BE REQUIRED WHEN THE CONDUIT ALIGNMENT IS AFFECTED BY OTHER UTILITIES. THE PULL BOX SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION WITH A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL COMPACTED PER PROJECT SPECIFICATIONS.
- (M) ONE 3" DIAMETER CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 3" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLPOLYETHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED CABLE" WORDING, 12" ABOVE CONDUIT.
- (N) ONE 2" CONDUIT SHALL BE CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLPOLYETHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED CABLE" WORDING 12" ABOVE CONDUIT. THE 2" LP CAMERA CONDUIT SHALL BE SEPARATED FROM THE 480VAC LIGHT FIXTURE POWER BY A DIVIDER PLACED IN THE LIGHT POLE BASE JUNCTION BOX.

ALERT TO CONTRACTOR:
ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

REVISIONS	BY
1 REVISED PER COUNTY AND TOWN COMMENTS	ZM
2 REVISED PER COUNTY AND TOWN COMMENTS	GRP
3 REVISED PER COUNTY AND TOWN COMMENTS	GRP

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE. IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, NORTH CAROLINA AND DELAWARE CALL - 811 (WV 1-800-245-4848) (PA 1-800-242-1776) (DC 1-800-257-7777) (VA 1-800-552-7001) (MD 1-800-257-7777) (DE 1-800-282-8555)

BOHLER ENGINEERING
22636 DAVIS DRIVE, SUITE 250
STERLING, VIRGINIA 20164
Phone: (703) 709-9500
Fax: (703) 709-9501
VA@BohlerEng.com

UTILITY PLAN

WALMART SUPERCENTER #1904-005 - SPAM #1
CATOCTIN ELECTION DISTRICT
LEESBURG, LOUDOUN COUNTY, VA

WAL-MART STORES, INC.
BENTONVILLE, AR

DRAWN	GRP
CHECKED	MJB
DATE	12/22/16
SCALE	1" = 30'
JOB No.	S148000
SHEET	C-17

Order Plans @ www.LDILine.com