

CONCEPTUAL STORMWATER MANAGEMENT STRATEGY

STORMWATER MANAGEMENT FOR THIS PROJECT IS SUBJECT THE TECHNICAL CRITERIA OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM PERMIT REGULATIONS (9VAC25-870-10) PART II B.

WATER QUANTITY

CONVEYANCE SYSTEM REQUIREMENTS:
ON-SITE UNDERGROUND DETENTION MAXIMUM PEAK FLOW RATE FROM 1 YEAR 24 HOUR STORM CALCULATED IN ACCORDANCE WITH THE ENERGY BALANCE EQUATION.

FLOOD PROTECTION:
POST DEVELOPMENT 10 YEAR 24 HOUR STORM TO BE CONFINED TO RECEIVING STORM SEWER SYSTEM TO AVOID LOCALIZED FLOODING.

LIMITS OF ANALYSIS:
STORM OUTFALL AT FLOODPLAIN.

WATER QUALITY

IN KEEPING WITH THE LOUDOUN COUNTY FSM 5.230 C1, THIS SITE IS CONSIDERED A "HOT SPOT". "A STORMWATER HOT SPOT IS DEFINED AS A LAND ACTIVITY THAT GENERATES HIGHER CONCENTRATIONS OF HYDROCARBONS, TRACE METALS OR TOXICANTS THAN ARE FOUND IN TYPICAL STORMWATER RUNOFF." OIL/WATER SEPARATION IS REQUIRED TO INTERCEPT STORMWATER RUNOFF. OUR SITE WILL UTILIZE MANUFACTURED HYDRODYNAMIC SEPARATORS TO SEPARATE THE OIL AND WATER PRIOR TO ENTERING THE UNDERGROUND DETENTION SYSTEM. (SINCE TOTAL PROJECT LAND DISTURBANCE IS LESS THAN 1 ACRE, NO FUTHER WATER QUALITY MITIGATION IS REQUIRED).

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SIMMONS & ASSOCIATES
Established 1744

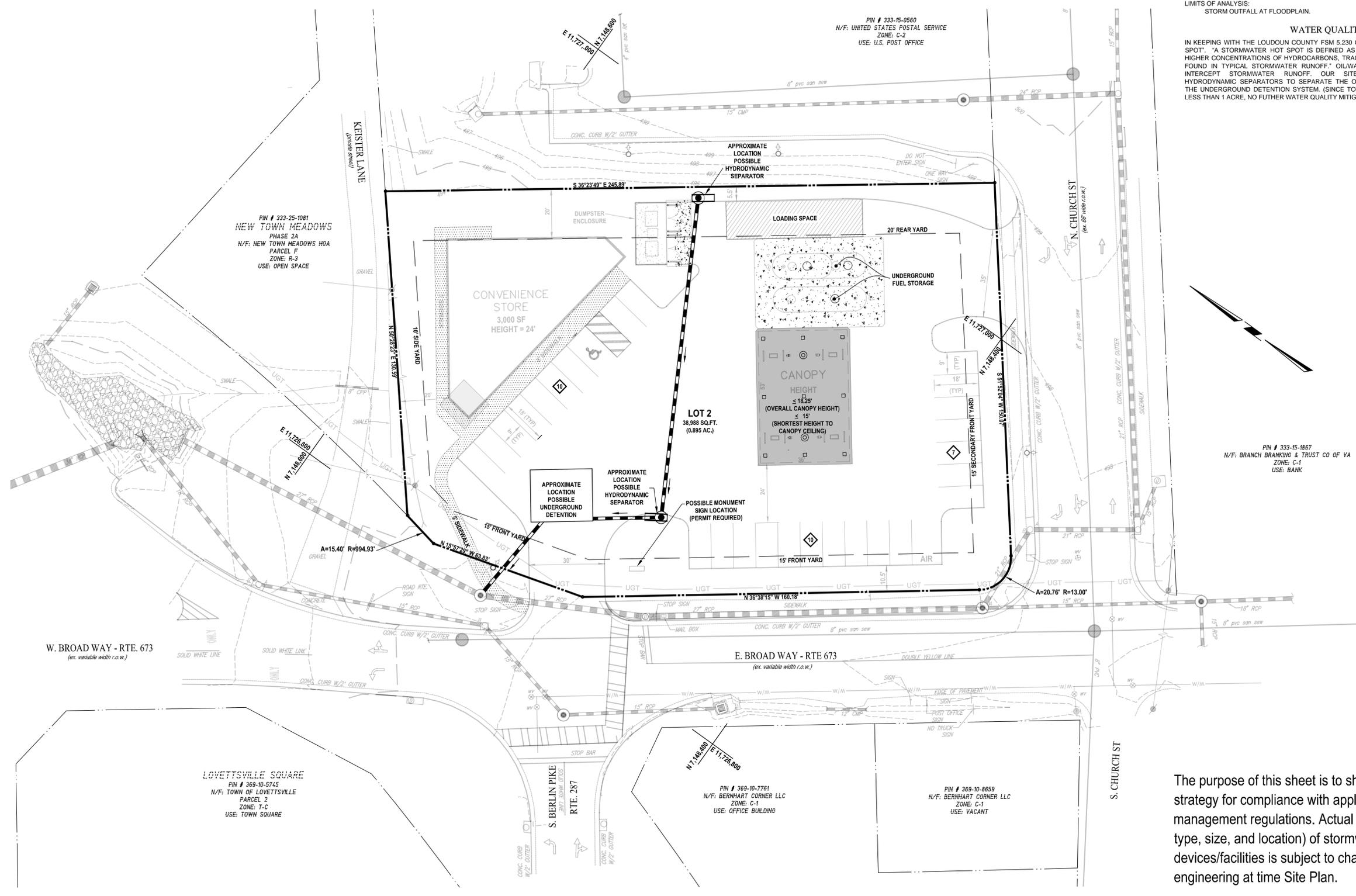
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LOVETTSVILLE 7-ELEVEN
CONDITIONAL USE PERMIT
TOWN OF LOVETTSVILLE
CATOCTIN ELECTION DISTRICT
LOUDOUN COUNTY, VIRGINIA

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DATE: 3-07-2016
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DRN: R.E.K.
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SHEET 1 OF 1



The purpose of this sheet is to show a general strategy for compliance with applicable stormwater management regulations. Actual design details (i.e. type, size, and location) of stormwater management devices/facilities is subject to change with final engineering at time Site Plan.

