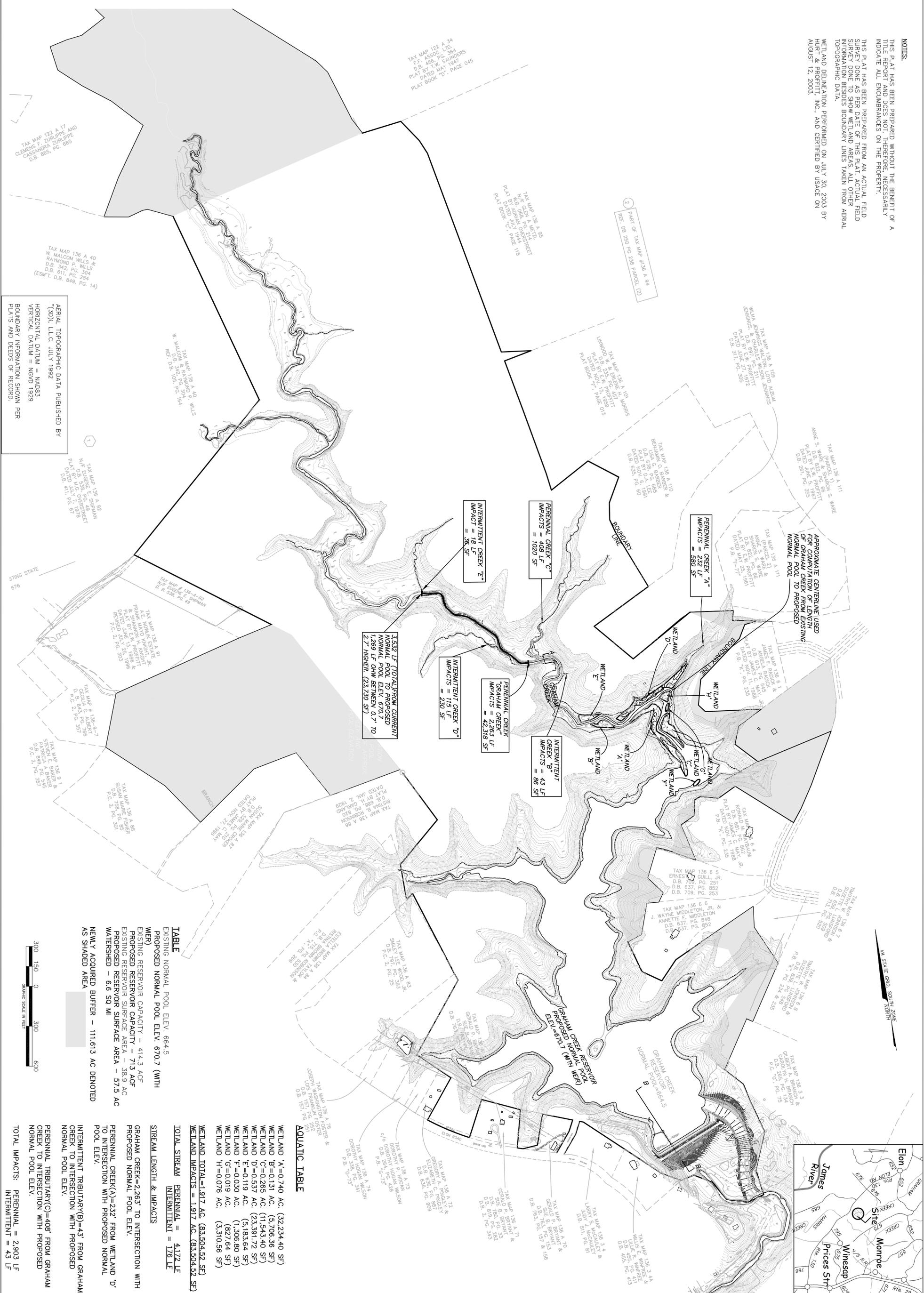


**NOTES:**  
 THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT, THEREFORE, NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY.  
 THIS PLAT HAS BEEN PREPARED FROM AN ACTUAL FIELD SURVEY DONE AS PER DATE OF THIS PLAT. ACTUAL FIELD SURVEY DONE TO SHOW WETLAND AREAS, ALL OTHER INFORMATION BESIDES BOUNDARY LINES TAKEN FROM AERIAL TOPOGRAPHIC DATA.  
 WETLAND DELINEATION PERFORMED ON JULY 30, 2003 BY HURT & PROFFITT, INC., AND CERTIFIED BY USAGE ON AUGUST 12, 2003.



APPROXIMATE CENTERLINE USED FOR COMPUTATION OF LENGTH OF GRAHAM CREEK FROM EXISTING NORMAL POOL TO PROPOSED NORMAL POOL

PERENNIAL CREEK "A"  
 IMPACTS = 232 LF  
 IMPACTS = 580 SF

PERENNIAL CREEK "C"  
 IMPACTS = 408 LF  
 IMPACTS = 1020 SF

INTERMITTENT CREEK "E"  
 IMPACTS = 18 LF  
 IMPACTS = 36 SF

INTERMITTENT CREEK "D"  
 IMPACTS = 115 LF  
 IMPACTS = 230 SF

PERENNIAL CREEK GRAHAM CREEK  
 IMPACTS = 4263 LF  
 IMPACTS = 42,318 SF

INTERMITTENT CREEK "B"  
 IMPACTS = 43 LF  
 IMPACTS = 86 SF

3,539 LF TOTAL PROPOSED NORMAL POOL ELEV. 670.7 TO 2.7' HIGHER. (23,720 SF)

**TABLE**

EXISTING NORMAL POOL ELEV. 664.5  
 PROPOSED NORMAL POOL ELEV. 670.7 (WITH WIER)

EXISTING RESERVOIR CAPACITY - 414.3 ACF  
 PROPOSED RESERVOIR CAPACITY - 713 ACF  
 EXISTING RESERVOIR SURFACE AREA - 38.9 AC  
 PROPOSED RESERVOIR SURFACE AREA - 57.5 AC  
 WATERSHED - 6.8 SQ MI  
 NEWLY ACQUIRED BUFFER - 111.613 AC DENOTED AS SHADED AREA

**AQUATIC TABLE**

WETLAND "A"=0.740 AC. (32,234.40 SF)
WETLAND "B"=0.131 AC. (5,706.36 SF)
WETLAND "C"=0.265 AC. (11,543.40 SF)
WETLAND "D"=0.537 AC. (23,391.72 SF)
WETLAND "E"=0.119 AC. (5,183.64 SF)
WETLAND "F"=0.030 AC. (1,306.80 SF)
WETLAND "G"=0.019 AC. (827.64 SF)
WETLAND "H"=0.076 AC. (3,310.56 SF)
<b>WETLAND TOTAL=1.917 AC. (83,504.52 SF)</b>
<b>WETLAND TOTAL=1.917 AC. (83,504.52 SF)</b>
<b>TOTAL STREAM PERENNIAL = 4,172 LF</b>
<b>INTERMITTENT = 176 LF</b>

**STREAM LENGTH & IMPACTS**

GRAHAM CREEK=2,263' TO INTERSECTION WITH PROPOSED NORMAL POOL ELEV.
PERENNIAL CREEK(A)=232' FROM WETLAND 'D' TO INTERSECTION WITH PROPOSED NORMAL POOL ELEV.
INTERMITTENT TRIBUTARY(B)=43' FROM GRAHAM CREEK TO INTERSECTION WITH PROPOSED NORMAL POOL ELEV.
PERENNIAL TRIBUTARY(C)=408' FROM GRAHAM CREEK TO INTERSECTION WITH PROPOSED NORMAL POOL ELEV.
TOTAL IMPACTS: PERENNIAL = 2,903 LF INTERMITTENT = 43 LF

**AQUATIC AREAS PLAN**  
**WETLAND AREAS AND TRIBUTARIES OF GRAHAM CREEK**  
**GRAHAM CREEK RESERVOIR**  
**ELON DISTRICT, AMHERST COUNTY, VIRGINIA**

PROJECT NO. 20000691  
 G.L. NO. AS-10067  
 FILE NO. 229-10-B10  
 DATE: 10/03/2003  
 DRAWN BY: JWG/RWL  
 CHECKED BY: TSC

**HURT & PROFFITT**  
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\* ENGINEERING >>> SURVEYING >>> PLANNING

HURT & PROFFITT  
 SHEET NO.  
**1 OF 1**

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