EXISTING SWM/BMP BASIN SUMMARY

THE EXISTING SWM/BMP WAS DESIGNED TO MEET WATER QUALITY AND QUANTITY REQUIREMENTS FOR THIS SITE AS SHOWN IN THE PROJECT TITLED PUDDLEDOCK MEDICAL OFFICE BUILDING WEST DATED 6/12/12, LAST REVISED ON 12/19/12, AND APPROVED ON 2/22/13.

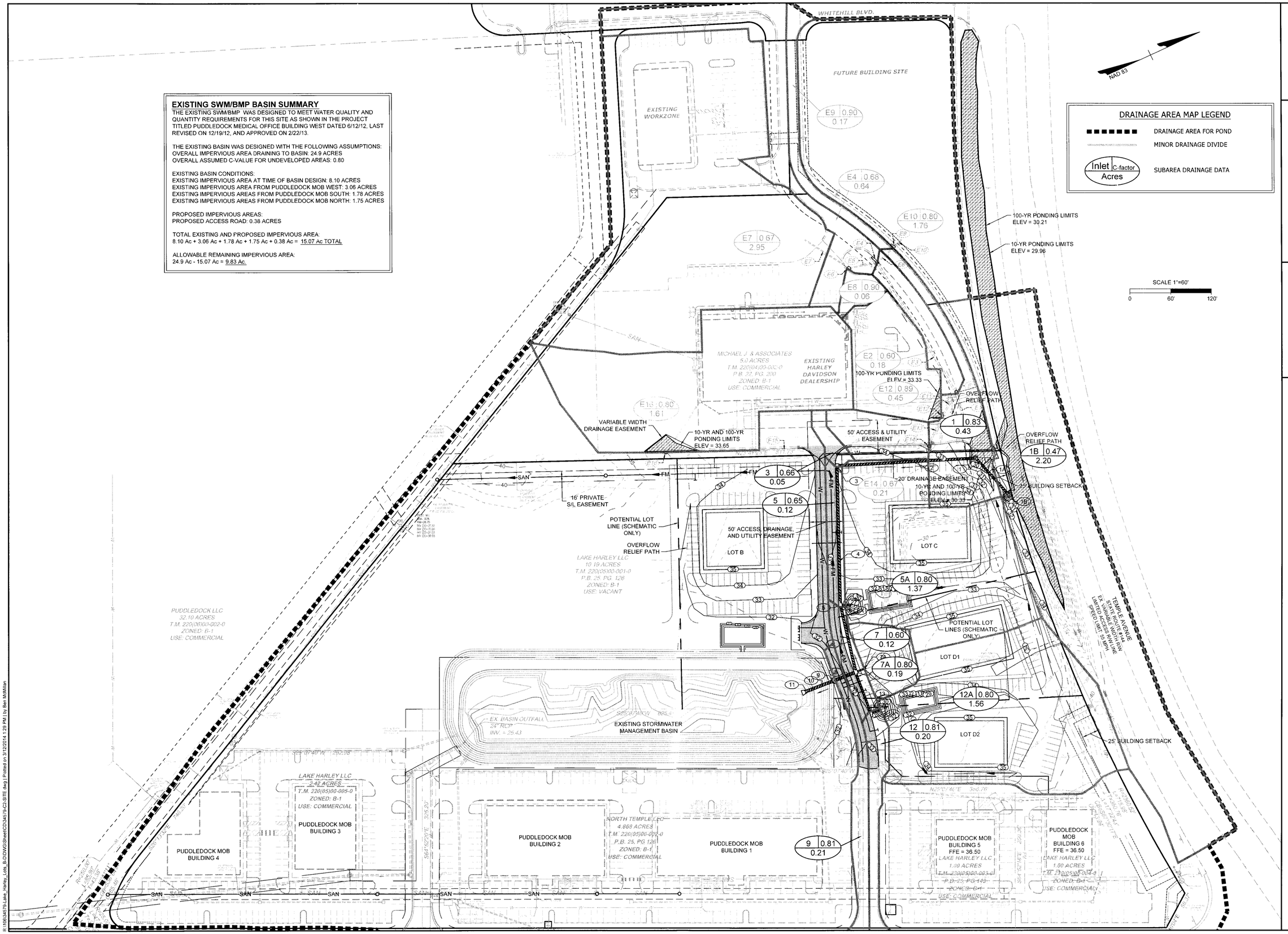
THE EXISTING BASIN WAS DESIGNED WITH THE FOLLOWING ASSUMPTIONS:
OVERALL IMPERVIOUS AREA DRAINING TO BASIN: 24.9 ACRES
OVERALL ASSUMED C-VALUE FOR UNDEVELOPED AREAS: 0.80

EXISTING BASIN CONDITIONS:
EXISTING IMPERVIOUS AREA AT TIME OF BASIN DESIGN: 8.10 ACRES
EXISTING IMPERVIOUS AREA FROM PUDDLEDOCK MOB WEST: 3.06 ACRES
EXISTING IMPERVIOUS AREAS FROM PUDDLEDOCK MOB SOUTH: 1.78 ACRES
EXISTING IMPERVIOUS AREAS FROM PUDDLEDOCK MOB NORTH: 1.75 ACRES

PROPOSED IMPERVIOUS AREAS:
PROPOSED ACCESS ROAD: 0.38 ACRES

TOTAL EXISTING AND PROPOSED IMPERVIOUS AREA:
8.10 Ac + 3.06 Ac + 1.78 Ac + 1.75 Ac + 0.38 Ac = 15.07 Ac TOTAL

ALLOWABLE REMAINING IMPERVIOUS AREA:
24.9 Ac - 15.07 Ac = 9.83 Ac.



COMMONWEALTH OF VIRGINIA
BENJAMIN S. MCMILLAN
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3/12/14
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE
COUNTY RESUBMITTAL - ADDRESSING COUNTY COMMENTS	12-4-13
COUNTY RESUBMITTAL - ADDRESSING COUNTY COMMENTS	3-12-14

DATE	17 SEP 2013
DRAWN BY	B. MCMILLAN
DESIGNED BY	B. MCMILLAN
CHECKED BY	D. JOHNSON
SCALE	1" = 60'

TIMMONS GROUP

LAKE HARLEY INFRASTRUCTURE - LOTS B,C,D1,D2

BLAND DISTRICT - PRINCE GEORGE COUNTY - VIRGINIA

OVERALL PLAN AND HYDROLOGY

JOB NO. 34579

SHEET NO. C2.0

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