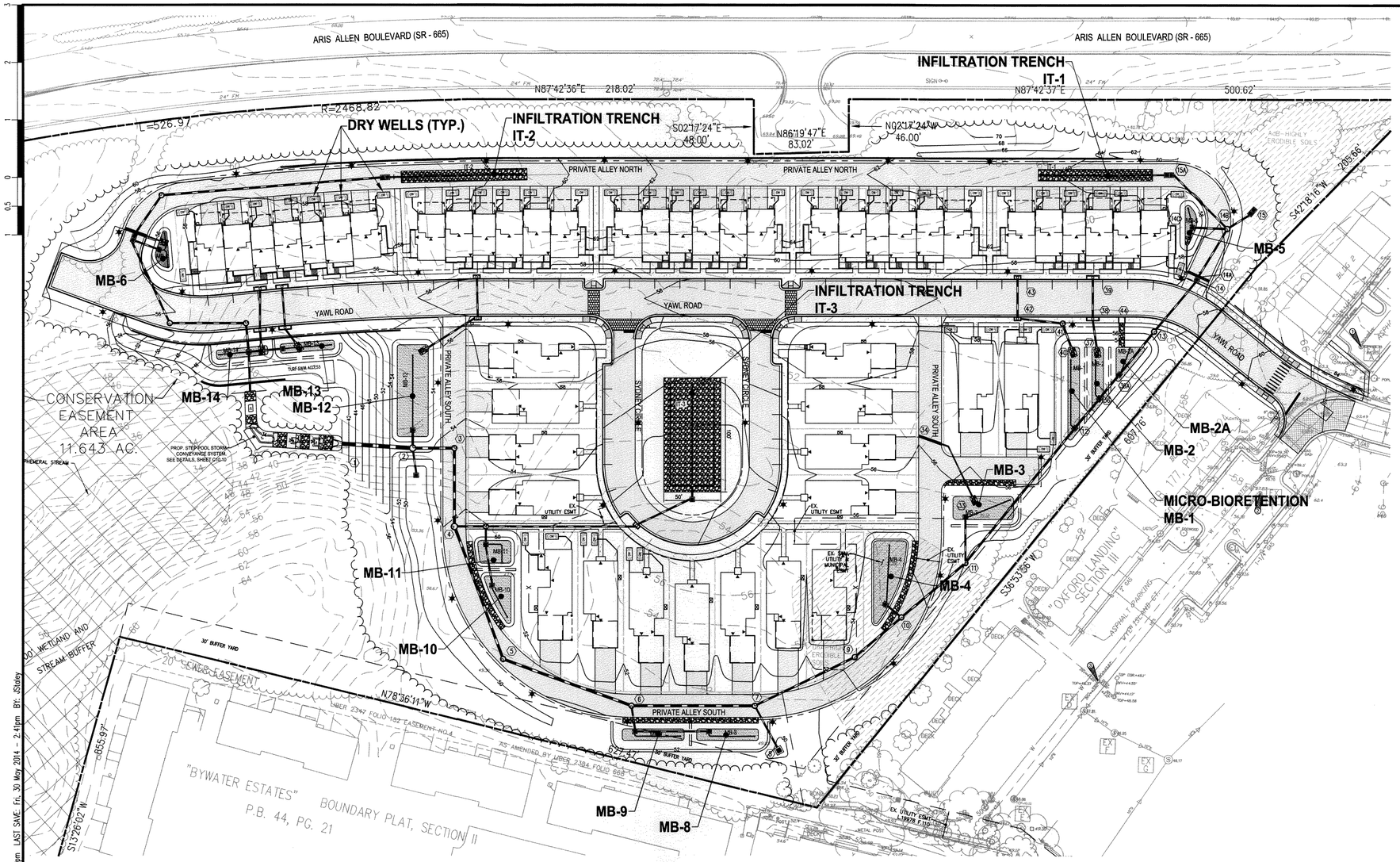



GRAPHIC SCALE

50 0 25 50 100 200

( IN FEET )
1 inch = 50 ft.

**REFER TO SHEET C16.40 FOR TYPICAL DETAIL OF THE MICRO-BIORETENTION FACILITIES.**

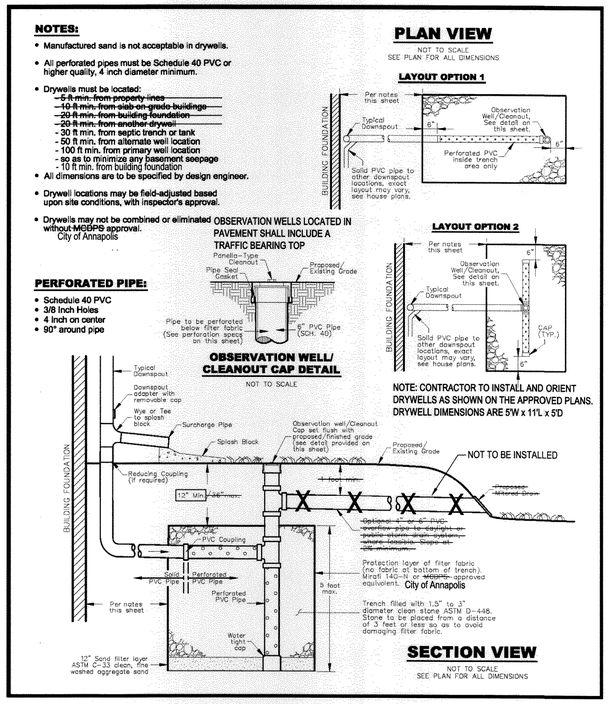
**NOTES:**

- Manufactured sand is not acceptable in drywells.
- All perforated pipes must be Schedule 40 PVC or higher quality, 4 inch diameter minimum.
- Drywells must be located:
  - ~~5 ft min. from property lines~~
  - ~~10 ft min. from slab on grade buildings~~
  - ~~20 ft min. from building foundation~~
  - ~~20 ft min. from another drywell~~
  - 30 ft min. from septic trench or tank
  - 50 ft min. from alternate well location
  - 100 ft min. from primary well location
  - so as to minimize any basement seepage
  - 10 ft min. from building foundation
- All dimensions are to be specified by design engineer.
- Drywell locations may be field-adjusted based upon site conditions, with inspector's approval.
- Drywells may not be combined or eliminated without ~~MDSHPS~~ approval. City of Annapolis

**PERFORATED PIPE:**

- Schedule 40 PVC
- 3/8 Inch Holes
- 4 Inch on center
- 90° around pipe

OBSERVATION WELLS LOCATED IN PAVEMENT SHALL INCLUDE A TRAFFIC BEARING TOP




NOTE: CONTRACTOR TO INSTALL AND ORIENT DRYWELLS AS SHOWN ON THE APPROVED PLANS. DRYWELL DIMENSIONS ARE 5'W x 11'L x 5'D

## TYPICAL DRYWELL DETAIL

N.T.S.

### INTRODUCTION & SITE INFORMATION

The Aris T. Allen property encompasses approximately 23 acres located in land annexed into the City of Annapolis, from Anne Arundel County. Approximately 9 acres of this land will be developed and the rest will be conserved. More specifically, the property is located just south of Aris T. Allen Boulevard (Rt. 665) and approximately 0.75 miles east of Solomons Island Road, and is bordered by residential developments to the east and south. The site is located within the Severn watershed, and drains to an unnamed tributary to Church Creek.

Currently the site is primarily wooded and undeveloped, and is zoned R-1, R-1A, and R1-B. The applicant proposes a mixed residential development consisting of single family and townhouse units. Stormwater management will be address for the site as detailed below.

Existing soil types are either classified as HSG Type 'B' or Type 'C'. The site is partially located within the 100-year floodplain, and wetland areas have also been identified on-site. There are no known historical and/or archaeological resources within the project limits. Offsite areas will be protected from sedimentation by installation of perimeter erosion controls, within the proposed limits of disturbance.

The existing site is 1% impervious and does not qualify as redevelopment. Thus, the proposed stormwater facilities must be designed to meet full ESD requirements. The proposed development will result in 44% impervious cover (within the limit of disturbance) on the site and will provide stormwater management controls in accordance with current Maryland Department of the Environment (MDE) requirements.

### HYDROLOGY

Stormwater management requirements are based upon the *2000 Maryland Stormwater Design Manual Volumes I and II*, as supplemented by the 2009 *Environmental Site Design* requirements. Stormwater runoff computations have been performed with the Rational Formula.

### STORMWATER MANAGEMENT REQUIREMENTS

The Maryland Department of the Environment (MDE) 2009 *Environmental Site Design* (ESD) requirements applies to this project. New developments must meet criteria for Recharge Volume (Rev), Water Quality Volume (WQv) and Channel Protection Volume (Cpv). Overbank Flood Protection (Qp) and Extreme Flood Control (Qf) are evaluated on a project-by-project basis in accordance with requirements of the local approving authorities, in this case the City of Annapolis. Full ESD design requirements apply to this site.

THESE PLANS ARE BASED UPON PLANS TITLED 'ARIS ALLEN BOULEVARD, LLC MIXED RESIDENTIAL' CREATED BY BOWMAN CONSULTING, PORTIONS OF WHICH ARE USED HEREIN.

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| NO. | DATE | REVISION | BY |
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PROJECT

ARIS T. ALLEN BOULEVARD
RESIDENTIAL PLANNED DEVELOPMENT
PART 1 - LOTS 26 - 31, 47 & 48
6TH ELECTION DISTRICT
CITY OF ANNAPOLIS, MARYLAND

TAX MAP/GRID: 51/E/8

STATE OF MARYLAND
PIERO VAN MELLUSK
No. 21875
REGISTERED PROFESSIONAL ENGINEER
5/30/14

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

License No.: 21875 Expiration Date: 2/12/16

SHEET TITLE

GRADING PERMIT NO.: GRD 14 - 0006

STORMWATER MANAGEMENT PLAN

| | |
|---|---|
| PROJECT NO. | 130003.01 |
| SCALE | AS SHOWN |
| DATE | 5/30/2014 |
| DRAWN BY | JDS/CLW |
| CHECKED BY | PVM/TJC |

DRAWING NO.

C10.00

27 OF 66 SHTS

FILE NAME: P:\Proj130\130003.01 Aris T. Allen Property\10_Dwgs\CADD\Working\C10.00 SWM PLAN.dwg PLOT TIME: Mon, 02 Jun 2014 - 1:00pm LAST SAVE: Fri, 30 May 2014 - 2:41pm BY: JSoley