

**PRELIMINARY STORMWATER MANAGEMENT CALCULATIONS**

SWMv REQUIRED: 7,421 CF  
 TOTAL RV GREEN ROOF PROVIDED: 4,629 CF  
 ADDITIONAL NON-GREEN ROOF REQUIRED: 20,805 SF

**STORMWATER MANAGEMENT NARRATIVE**

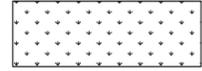
THE SITE WILL MEET ITS STORMWATER RETENTION VOLUME (7,421 CF) WITH A COMBINATION OF EXTENSIVE AND INTENSIVE GREEN ROOF. NO WETLANDS, STREAMS, OR WATER COURSES ARE LOCATED ON AND/OR ADJACENT TO THE PROPERTY.

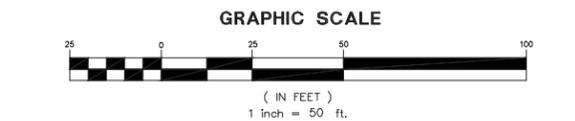
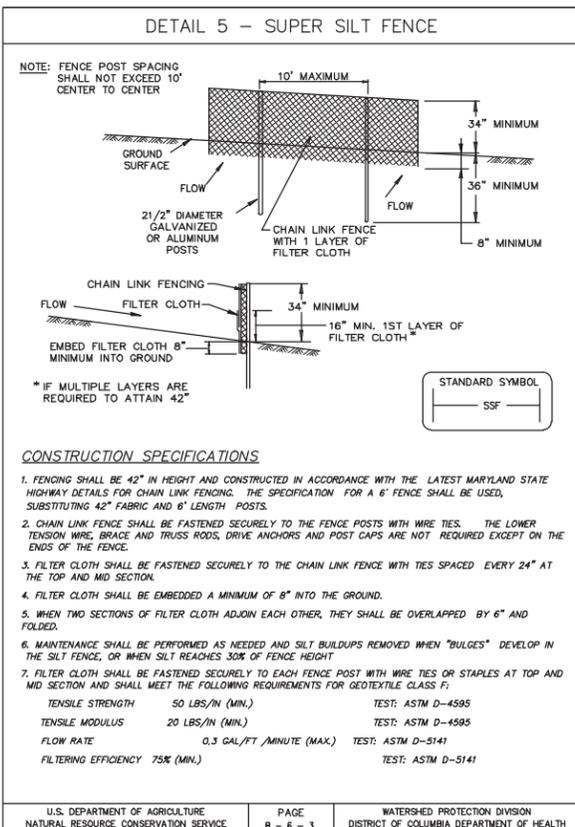
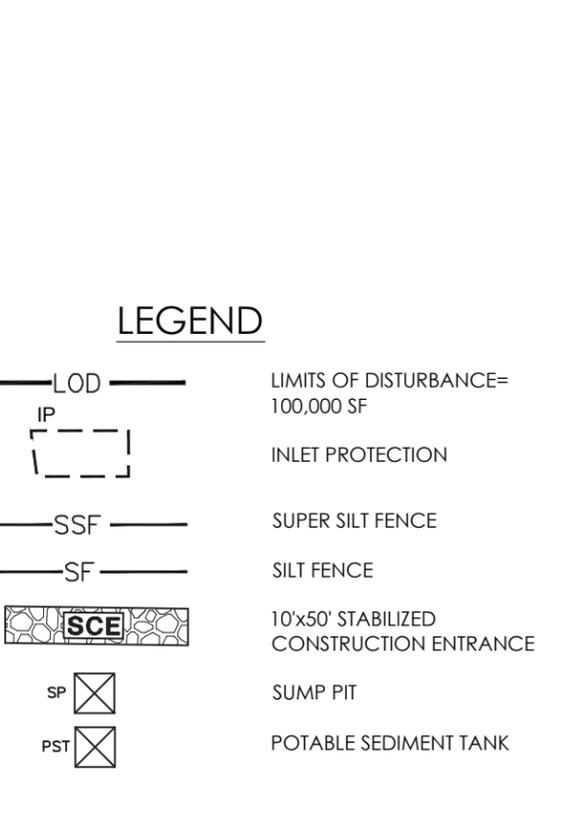
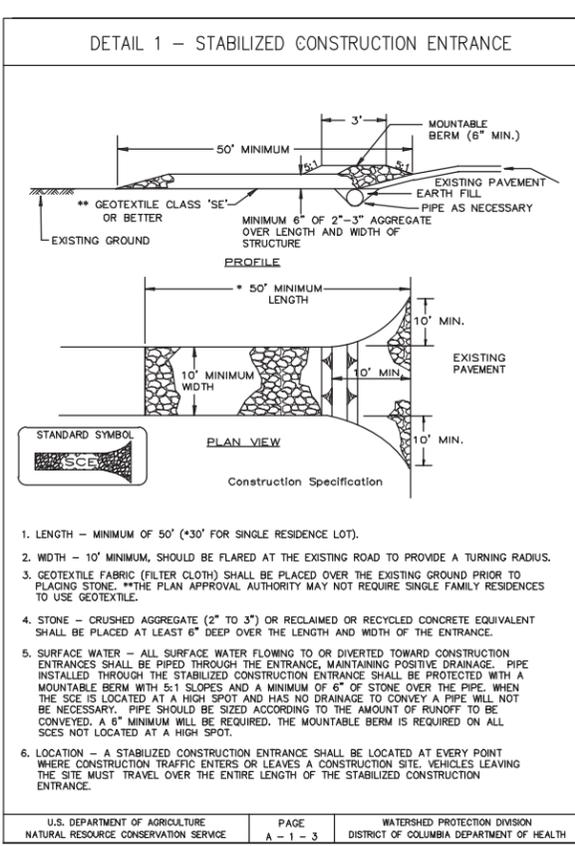
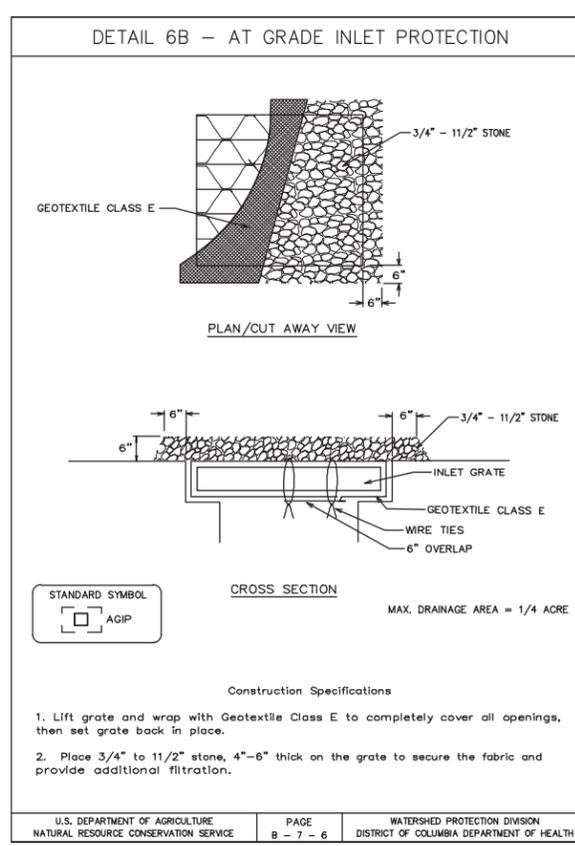
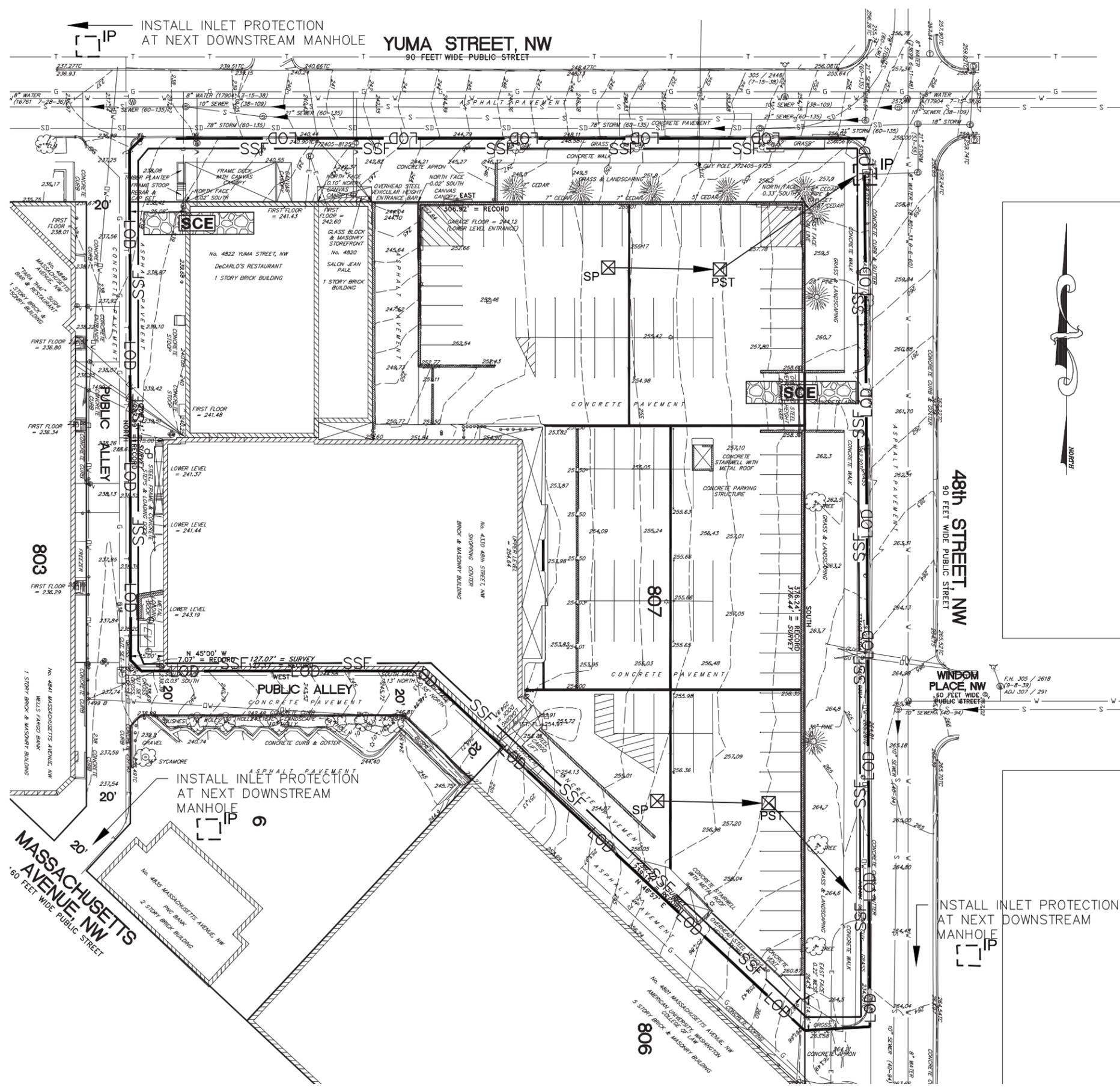
**STORMWATER RUNOFF CALCULATIONS**

2-YEAR PRE-DEVELOPMENT (MEADOW CONDITION; C=0.35) RUNOFF = 3.4 CFS  
 15-YEAR PRE-DEVELOPMENT (MEADOW CONDITION; C=0.35) RUNOFF = 4.9 CFS  
 2-YEAR POST-DEVELOPMENT (IMPERVIOUS CONDITION; C=0.90) RUNOFF = 8.8 CFS  
 15-YEAR POST-DEVELOPMENT (IMPERVIOUS CONDITION; C=0.90) RUNOFF = 12.5 CFS

NOTE: TO MEET DC STORMWATER REGULATIONS, THE 2-YEAR POST-PROJECT RUNOFF WILL BE KEPT BELOW THE PRE-DEVELOPMENT 2-YEAR FLOW (3.4 CFS), AND THE 15-YEAR POST-PROJECT RUNOFF WILL BE LESS THAN THE PRE-PROJECT 15-YEAR FLOW.

**LEGEND**

-  EXTENSIVE GREEN ROOF
-  INTENSIVE GREEN ROOF
- LOD —
- LIMITS OF DISTURBANCE :  
 79,674 SF (PRIVATE SPACE)  
 +20,326 SF (PUBLIC SPACE)  
 =100,000 SF



CIV-04: EROSION & SEDIMENT CONTROL PLAN

DESIGN REVIEW SET  
4330 48TH STREET, NW

DATE

10/24/2016