**Water Street Trail**  
**Charlottesville, Virginia**  
**October 19, 2015**

**Approved by:**  
Land Planning and Design Associates  
1106 E. Jefferson St., Suite B  
Charlottesville, VA 22902  
(434) 296-2108

**Prepared by:**  
City of Charlottesville Parks and Recreation  
Chris Gensic  
1306 Pen Park Road  
Charlottesville, VA 22901

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**Site Information**

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<td>M2</td>
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<td>M4</td>
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**LAP Authorized Official**

Chris Gensic
1306 Pen Park Road
Charlottesville, VA 22901

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**Landscape Requirement**

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<tr>
<th>Tree Type</th>
<th>Quantity</th>
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<tr>
<td>London Plane</td>
<td>206 sf each</td>
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</tr>
<tr>
<td>7 Sweetgum</td>
<td>206 sf each</td>
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<tr>
<td>7 London Plane</td>
<td>368 sf each</td>
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<tr>
<td>Sweetgum</td>
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<tr>
<td>London Plane</td>
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**Parking Information**

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<td>Backhoe</td>
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**Proposed Trees**

- London Plane - 206 sf each
- Sweetgum - 206 sf each
- London Plane - 368 sf each

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**Vicinity Map**

**note**

- The construction limits shown herein lie within the City of Charlottesville, all within the State of Virginia, temporary construction limits as shown may be modified by the City of Charlottesville prior to understanding any work.
- Construction limits shown herein are for reference only and are not to be considered as final. All work is to be performed by the City of Charlottesville prior to understanding any work.
- All temporary signs, markers, or related devices and permits necessary to accomplish work shall be removed from the right-of-way prior to understanding any work.
- The owner shall be responsible for the construction of all required water lines and storm water management systems. Final plans shall be submitted for all such work.
- All work shown herein, its related materials, and any permits necessary to accomplish work shall be removed from the right-of-way prior to understanding any work.
- Applicant is responsible for obtaining all necessary permits, including the requisite permits and approvals from the Environmental Protection Agency (EPA) and the Virginia Department of Environmental Quality (DEQ). Final plans shall be submitted for all such work.
- The contractor shall be responsible for the construction of the site drainage system and other water-related facilities. Final plans shall be submitted for all such work.
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**Additional Landscaping**

- Additional landscaping shall be completed by the city. (See Sheet L6.2)
This plan is for information purposes showing existing conditions on Water Street and adjacent areas.

1.存在的条件更新：2017年2月6日
2. VDOT意见修订：2017年9月22日
3. SWM修订：2018年5月22日
4. 景观分离：2018年11月21日

注: 本计划显示了现有的条件，它是2007年现场调查的数据、城市GIS信息以及Draper Aden and Associates公司（电话：434-295-2105）完成的调查的综合结果。
91—Urban land
Parent material: Residual weathered from granite and gneiss
Conservation
H1 - 0 to 6 inches: variable
H2 - 6 to 79 inches: variable
Model: 0.15 to 0.35
Runoff: 3 inch; variable
Surface roughness: 1 inch, incrustation material
Capacity of the most limiting layer to transmit water (Ksat): Very low to high (0.00 to 13.04 in/hr)
**Construction Entrance (VESCH Std. 3.02)**

**Gravel Curb Inlet Sediment Filter**

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**VESCH INSTALLATION AND CONSTRUCTION SEQUENCE**

1. **Foundation Grading:**
   - 5. PROVIDE FINAL GRADES WITHIN 1" OF THOSE SHOWN ON PLANS OR NOTED IN SPECIFICATIONS, POINTS AND EXISTING GRADES.

2. **Vegetation Clearing:**
   - 11. MAINTENANCE: ALL E&S MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT TIMES, AND DUST MUST BE CONTROLLED IN ACCORDANCE WITH STD. & SPEC. 3.39 - DUST CONTROL, IN THE EVENT A CONTRACTOR DUMPS, DISCHARGES, OR SPILLS ANY OIL OR CHEMICAL THAT REACHES OR ENTERS ANY E&S AREA. CONTRACTOR SHALL PROVIDE INSTRUCTION FOR THE PREVENTION OF MUD TRACKING DURING THE MATERIALIZATION AND INSTALLATION SEQUENCES. MUD TRACKING MAY REQUIRE ADDITIONAL WORK TO BE COMPLETED AS DEMONSTRATED BY THE FIRM IN ITS PRE-CONSTRUCTION PLAN.  

3. **Vegetation Landscape:**
   - 14. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH MAJOR RAINFALL. CONTRACTOR SHALL INSTALL NEW CURB AND GUTTER FIRST THEN ALL TRAIL IMPROVEMENTS.

4. **Vegetation Cleanup:**
   - 16. TEMPORARY AND PERMANENT SEEDING SHALL ADHERE TO THE SPECIFICATIONS SHOWN ON THESE PLANS.

5. **Vegetation Placement:**
   - 18. ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE PRE-CONSTRUCTION SEQUENCE. CONTRACTOR SHALL PROVIDE INSTRUCTION FOR THE PREVENTION OF MUD TRACKING DURING THE MATERIALIZATION AND INSTALLATION SEQUENCES. MUD TRACKING MAY REQUIRE ADDITIONAL WORK TO BE COMPLETED AS DEMONSTRATED BY THE FIRM IN ITS PRE-CONSTRUCTION PLAN.  

6. **Vegetation Maintenance:**
   - 19. PROVIDE PERMANENT PLANT PROTECTION DURING THE MATERIALIZATION AND INSTALLATION SEQUENCES.

7. **Vegetation Protection:**
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NOTE: TREES ALONG TRAIL TO BE LIMBED UP TO A HEIGHT CLEARANCE OF 8'. ALL TREES PLANTED ALONG THE TRAIL SHALL NOT PROTRUDE OVER THE TRAIL AT TIME OF PLANTING.
NOTE: All Landscaping on Sheet L6.2 shall be installed by the City of Charlottesville
NOTES:

1. CONCRETE CURB AND GUTTER HAVING A WIDTH OF 36" OR LESS INCLUDING FACE OF CURB SHALL BE END TREATED FOR RADIAL COMBINATION CURB & GUTTER.

2. THIS CURB IS TO BE USED WHEN DESIGN SPEED IS 40 MPH OR LESS ON RURAL HIGHWAYS AND 45 MPH OR LESS ON URBANIZED URBAN AND SUBURBAN AREAS.

3. THE BOTTOM OF THE SLOPE TO DRAIN IS REGULATED FOR ALL WALL CURBS. UNLESS SOFT SURFACE COURSES PROVIDE A MINIMUM SLOPE OF 1%.

4. PERMITS FOR CURB OR CURB AND GUTTER SHALL BE INCLUDED IN BID PRICE FOR CURB OR CURB AND GUTTER.

5. CURB OR CURB AND GUTTER SLOPE TRANSITIONS ARE PERMISSIBLE FOR A DECREASE OR AN INCREASE IN CURB OR CURB AND GUTTER.

6. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTION WHERE AN ACCESSIBLE ROUTE WITHIN THE LIMITS OF THE CROSSWALK AND THE THE ADJACENT MEDIAN IS INCLUDED IN THE CONTRACT OF THE CURB OR CURB AND GUTTER.

7. RAMPS MAY BE PLACED ON RADIAL OR TANGENT SLOPE TO DRAIN OR CHANGE OF DIRECTION, OR MATERIAL SECTIONS PROVIDED THAT THE CURB OR CURB AND GUTTER OPENING IS PLACED WITHIN LIMITS OF THE CROSSWALK AND THE THE ADJACENT MEDIAN IS INCLUDED IN THE CONTRACT OF THE CURB OR CURB AND GUTTER.

8. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE EXISTING PROPOSED OR NONEXISTENT. THEY MUST BE ADJUSTED TO CONNECT TO THE END OF THE TRAVEL. THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.

9. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED STABLE, FIRM AND SLIP RESISTANT PATH CONNECTED ALL ACCESSIBLE EVENTS OF A FACILITY THAT SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, ON PLANS OR AS DIRECTED BY THE ENGINEER.
STORMWATER NARRATIVE

Applicability

This Plotting Package is the final report of the post-developed conditions for the Project shown below. All requirements of the post-developed conditions for the Project are included. The requirements for the pre-development conditions are not included. The requirements for the post-developed conditions are met based on the following information:

- Stormwater Management Plan
- Stormwater Data Analysis
- Stormwater Quality
- Stormwater Quantity


drainage area 1

Area = 0.04 AC

CN = 94

Tc = 6 MIN

Q1 = 0.14 CFS

Q2 = 0.18 CFS

Q10 = 1.33 CFS

Q100 = 2.25 CFS

Energy Balance

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<td>Evapotranspiration</td>
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<tr>
<td>Stormwater Runoff</td>
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VRRM Spreadsheets

Site Area A to Offsite

- Pre-development Runoff
- Post-development Runoff

Site Area A to Existing Curb Inlet

- Pre-development Runoff
- Post-development Runoff

Site Area A to Existing Pavers

- Pre-development Runoff
- Post-development Runoff

Site Area B to Existing Curb Inlet

- Pre-development Runoff
- Post-development Runoff

Site Area B to Offsite

- Pre-development Runoff
- Post-development Runoff

1. Energy Balance:

- Rainfall
- Evapotranspiration
- Stormwater Runoff

2. VRRM Spreadsheets:

- Site Area A to Offsite
- Site Area A to Existing Curb Inlet
- Site Area A to Existing Pavers
- Site Area B to Existing Curb Inlet
- Site Area B to Offsite

3. Drainage Area 1:

- Area = 0.04 AC
- CN = 94
- Tc = 6 MIN
- Q1 = 0.14 CFS
- Q2 = 0.18 CFS
- Q10 = 1.33 CFS
- Q100 = 2.25 CFS

4. Drainage Area 2:

- Area = 0.04 AC
- CN = 90
- Tc = 6 MIN
- Q1 = 0.16 CFS
- Q2 = 0.20 CFS
- Q10 = 1.13 CFS
- Q100 = 2.30 CFS

5. Drainage Area 3:

- Area = 0.04 AC
- CN = 90
- Tc = 6 MIN
- Q1 = 0.14 CFS
- Q2 = 0.18 CFS
- Q10 = 1.33 CFS
- Q100 = 2.30 CFS

6. Drainage Area 4:

- Area = 0.04 AC
- CN = 93
- Tc = 6 MIN
- Q1 = 0.16 CFS
- Q2 = 0.20 CFS
- Q10 = 1.13 CFS
- Q100 = 2.30 CFS

7. Drainage Area 5:

- Area = 0.04 AC
- CN = 93
- Tc = 6 MIN
- Q1 = 0.16 CFS
- Q2 = 0.20 CFS
- Q10 = 1.13 CFS
- Q100 = 2.30 CFS

8. Drainage Area 6:

- Area = 0.29 AC
- CN = 90
- Tc = 6 MIN
- Q1 = 1.20 CFS
- Q2 = 0.20 CFS
- Q10 = 2.18 CFS
- Q100 = 2.30 CFS
### VRRM SITE TABULATION

**Drainage Area A**

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### VRRM DRAINAGE AREA A TABULATION

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### VRRM WATER QUALITY COMPLIANCE TABULATION

#### Site Results (Water Quality Compliance)

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### VRRM RUNOFF VOLUME AND CN TABULATION

#### Runoff Volume and Curve Number Calculations

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**Chesapeake Bay Critical Area Protection Act**

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**VRRM SPREADSHEET**

1. **VRRM SITE TABULATION**
2. **VRRM DRAINAGE AREA A TABULATION**
3. **VRRM WATER QUALITY COMPLIANCE TABULATION**
4. **VRRM RUNOFF VOLUME AND CN TABULATION**