

FINAL SCANNED:

PLAN SCANNED:

PARK CODE: C10

Plotted By: Matt Edelman, 2/6/2019 5:43 PM

Stormwater Management Concept.dwg C-1

2/6/19

LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN

Address
1775 GREENSBORO STATION PLACE, SUITE 110

City/State/Zip
TYSONS, VIRGINIA, 22102

Telephone Number
703-821-2045

DESIGN

Landscape Architect
Date
Checked By:

Architect
CLARK | AZAR & ASSOCIATES
Date
Checked By:

Engineer
SL, ME
Date
Checked By:

Drawn by
Date
Checked By:

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. 31168

Expiration Date 01/12/2021

Professional Engineer

2/6/19

The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks
9500 Brunnet Avenue
Silver Spring, Maryland 20901
(301) 495-2535

REVIEW AND APPROVAL

Project Manager
Date

Construction Manager
Date

Park Manager
Date

ISSUED FOR PROCUREMENT ON

REVISIONS

Rev. No.
Date
Description

STORMWATER MANAGEMENT CONCEPT PLAN

Silver Spring Intermediate Neighborhood Park

SCALE: AS SHOWN

DWG. # of

SHT. # of

C-1

0 20' 40'

GRAPHIC SCALE

SB-1

PROPOSED LIMITS OF DISTURBANCE

PROPOSED CONCRETE

PROPOSED MILL AND OVERLAY

PROPOSED FLEXI-PAVE

PROPOSED MICRO-BIOTENTION AREA

SOIL BORING/INFILTRATION TEST LOCATION

PROPOSED DOGHOUSE MANHOLE MH-1 OVER EXISTING 36" RCP STORMDRAIN RIM = 299.0 INV. IN = 291.2 INV. IN (18" HDPE) = 292.0 INV. OUT = 291.1

REPLACE EXISTING RISER WITH THROAT OPENING THROAT OPENING = 304.0 INV. IN = 297.0 INV. OUT = 295.8

PROPOSED RISER STRUCTURE "R-2" RIM = 303.0 INV. IN = 297.5 INV. OUT = 297.4

PROPOSED MICRO-BIOTENTION AREA "MBR-B" SURFACE AREA = 614 SF

EXISTING RETAINING WALL TO BE REPLACED

EXISTING CONCRETE SWALE TO HAVE ALL DEBRIS AND VEGETATION CLEARED AND REMOVED

PROPOSED CONCRETE WALKWAY, TYP.

PROPOSED ELEVATED WALKWAY BRIDGE

EXISTING MULCH PLAYGROUND AREA TO REMAIN

PROPOSED CONCRETE SLAB FOR PICNIC TABLES

PROPOSED FLEXI-PAVE WALKWAY, 6" WIDE TYP.

EXISTING TENNIS COURT TO BE RESURFACED AND RESTRIPTED

PROPOSED ADA RAMP SYSTEM

PROPOSED DRAINAGE SWALE TO DIRECT RUNOFF TOWARDS EXISTING CONCRETE SWALE

TIE-INTO EXISTING 24" RCP STORMDRAIN WITH INSERT-A-TEE. CONTRACTOR TO PROVIDE ALL FITTINGS AND ADAPTERS AS NECESSARY TO PROVIDE WATERTIGHT CONNECTION. INV. IN = 312.71

PROPOSED BENCH ON CONCRETE PAD, TYP.

12" NYLOPLAST IN-LINE DRAIN W/DOME GRATE RIM = 318.5 INV. OUT = 315.5

PROPOSED RETAINING WALL

EXISTING BASKETBALL COURT TO REMAIN

PROPOSED ADA PARKING SPACE

PROPOSED BIKE RACKS ON CONCRETE PAD, TYP.

PROPOSED BENCHES, TYP.

PROPOSED CONCRETE WALKWAY, TYP.

PROPOSED ASPHALT MILL AND WEDGE OVERLAY

PROPOSED MICRO-BIOTENTION AREA "MBR-A" SURFACE AREA = 500 SF

PROPOSED RISER STRUCTURE "R-1" RIM = 313.0 INV. IN = 307.5 INV. OUT = 307.4

RELOCATED PORTA-JOHN ON CONCRETE PAD WITH SCREENING FENCE

CONVERT EXISTING GRATE INLET TO MANHOLE INV. IN 12" HDPE = 306.4

PROPOSED SIDEWALK FLUME

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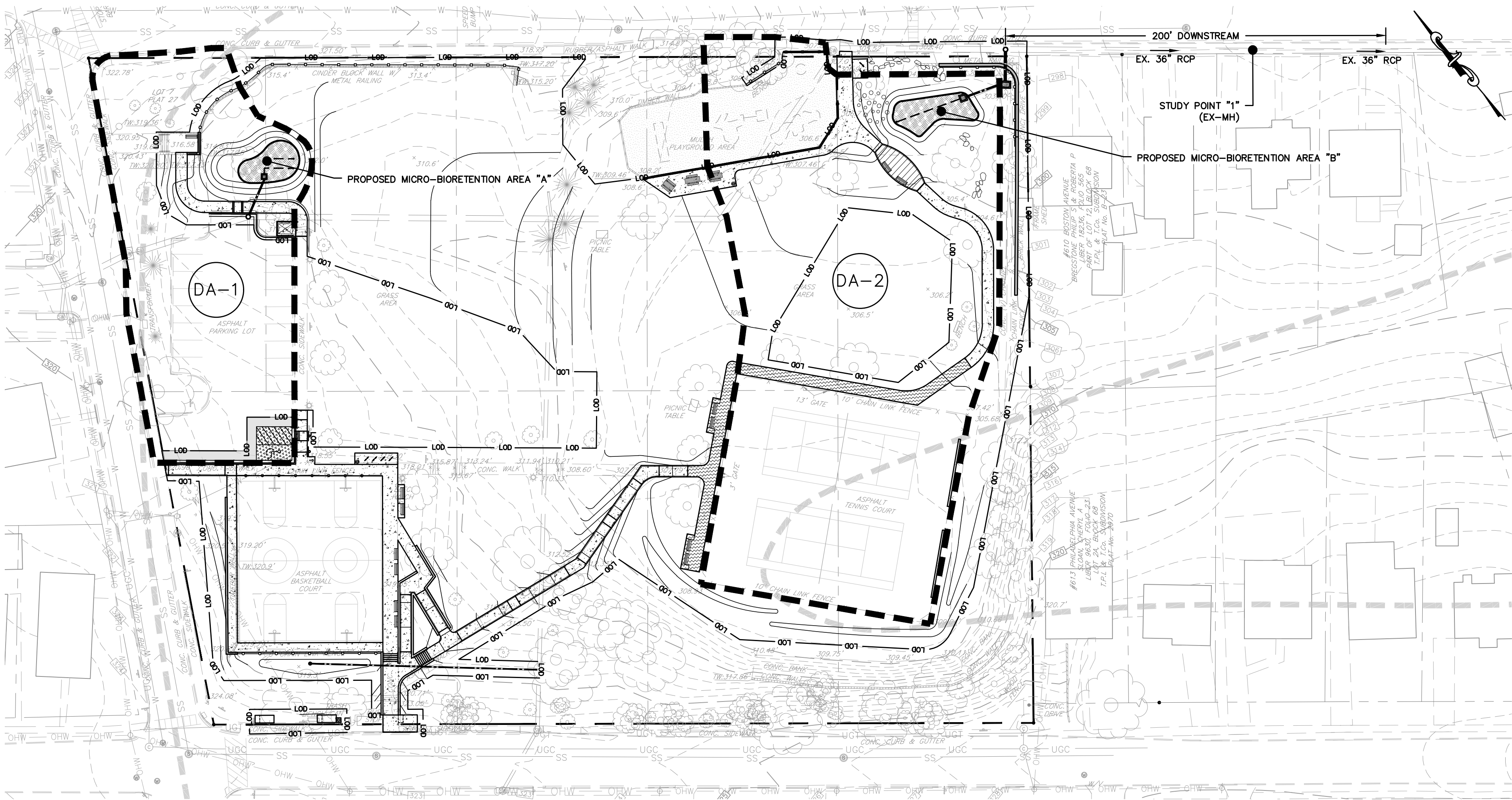
EXISTING BASKETBALL COURT TO REMAIN

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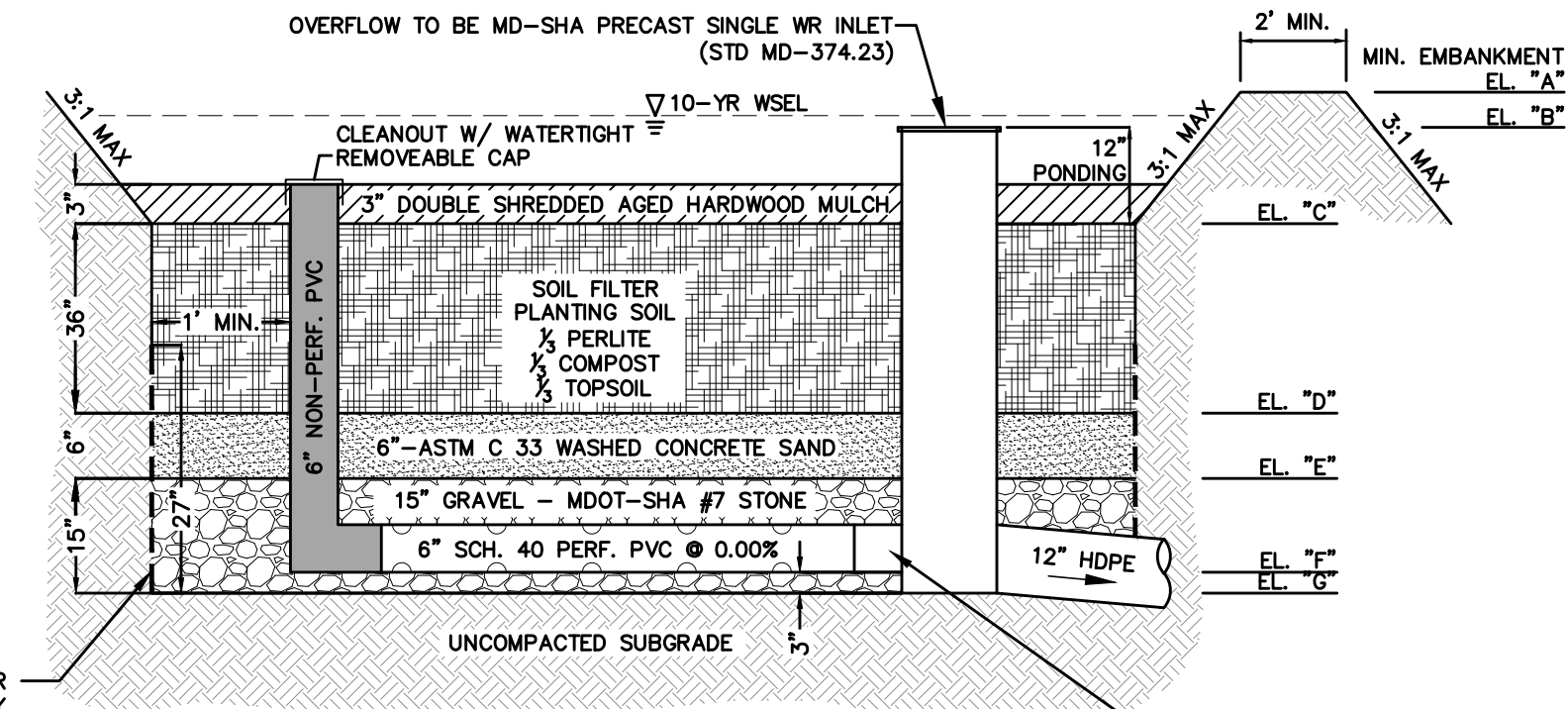
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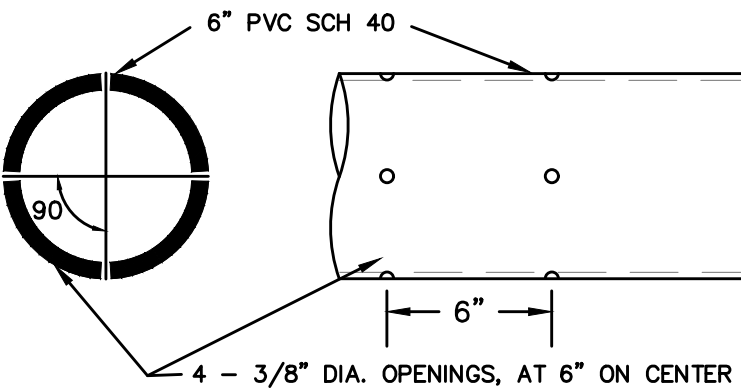


POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE: 1" = 40'



- NOTES:
1. UNDERDRAIN PIPE SHALL BE PERFORATED WITH 3/8" DIA. PERFORATIONS, 6" O.C., EVERY 90 DEGREES AROUND THE PIPE.
 2. PERFORATED PIPE MUST BE AT LEAST 12" INSIDE THE FILTER MEDIA.
 3. FILTER FABRIC MUST NOT BE WRAPPED AROUND THE UNDERDRAIN PIPE.

1 TYPICAL MICRO-BIORETENTION DETAIL
NOT TO SCALE



2 PIPE PERFORATION DETAIL
NOT TO SCALE

MICRO-BIORETENTION
GRAVEL, SAND, PLANTING MEDIA, AND MULCH MATERIAL SPECIFICATIONS

Gravel Bed
The gravel layer surrounding the underdrain pipe(s) must meet MSHA size #7 (Table 901A), and must provide a minimum of 6 inches cover over the pipe(s), and minimum 3 inches under the pipe. No geotextile or filter fabric is allowed to be placed horizontally anywhere within the filter media. The gravel must be clean and must be stored and installed in such a manner that it does not become contaminated with sediment before or after installation.

Sand Bed
A minimum 6-inch fine aggregate sand layer shall be provided below the planting medium. ASTM C33 or AASHTO M6 Fine Aggregate Concrete Sand is required per Montgomery County sand specifications.

Planting Medium
The planting medium shall be 24"-48" thick and shall consist of 1/3 perlite or Solite, 1/3 compost and 1/3 topsoil. The perlite shall be coarse grade horticultural perlite. The compost shall be high grade compost free of stones and partially composted woody material. The topsoil component shall meet the following criteria: contain no more than 10% clay, 10-25% silt and 60-75% sand and be free of stones, stumps, roots or other similar objects larger than 2 inches.

The first layer of the planting medium shall be lightly tilled to mix it into the 6-inch sand layer, so as not to create a definitive boundary. The planting bed shall be flooded after placement. Any settlement that occurs shall be filled back to the design elevation.

Mulch
The mulch layer is an important part of the Micro-Bioretentation device. Much of the pollutant removal capacity of the Micro-Bioretentation system is within the mulch layer. The surface mulch layer will consist of standard double shredded aged hardwood mulch. The mulch should be applied uniformly to a depth of 3 inches. Yearly replenishing may be necessary. Pine bark is not acceptable.

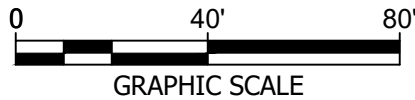
SAND SPECIFICATIONS:

- WASHED ASTM C33 FINE AGGREGATE CONCRETE SAND IS UTILIZED FOR STORMWATER MANAGEMENT APPLICATIONS IN THE CITY OF ROCKVILLE. IN ADDITION TO THE ASTM C33 SPECIFICATION, SAND MUST MEET ALL OF THE FOLLOWING CONDITIONS:
1. SAND MUST MEET GRADATION REQUIREMENTS FOR ASTM C-33 FINE AGGREGATE CONCRETE SAND. AASHTO M-6 GRADATION IS ALSO ACCEPTABLE.
 2. SAND MUST BE SILICA BASED. NO LIMESTONE BASED PRODUCTS MAY BE USED. IF THE MATERIAL IS WHITE OR GRAY IN COLOR, IT IS PROBABLY NOT ACCEPTABLE.
 3. SAND MUST BE CLEAN, NATURAL, UNWASHED SAND DEPOSITS MAY NOT BE USED. LIKEWISE, SAND THAT HAS BECOME CONTAMINATED BY IMPROPER STORAGE OR INSTALLATION PRACTICES WILL BE REJECTED.
 4. MANUFACTURED SAND OR STONE DUST IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCE.

LOD AREA:
TOTAL AREA = 88,425 SF (2.030 AC)
PERVIOUS AREA = 76,315 SF (1.752 AC)
IMPERVIOUS AREA = 12,110 SF (0.278 AC)
PERCENT IMPERVIOUS = 13.7%

DRAINAGE AREA (DA-1):
TOTAL AREA = 17,277 SF (0.397 AC)
PERVIOUS AREA = 7,169 SF (0.165 AC)
IMPERVIOUS AREA = 10,108 SF (0.232 AC)
PERCENT IMPERVIOUS = 58.5%

DRAINAGE AREA (DA-2):
TOTAL AREA = 37,908 SF (0.870 AC)
PERVIOUS AREA = 18,954 SF (0.435 AC)
IMPERVIOUS AREA = 18,954 SF (0.435 AC)
PERCENT IMPERVIOUS = 50.0%



LSG LANDSCAPE ARCHITECTURE

Designer's Name
DAVE NORDEN
Address
1775 GREENSBORO STATION PLACE, SUITE 110
City/State/Zip
TYSONS, VIRGINIA, 22102
Telephone Number 703-821-2045

DESIGN

Landscape Architect	Date	Checked By:
Architect	Date	Checked By:
CLARK AZAR & ASSOCIATES	2/6/19	DC
Engineer	Date	Checked By:
SL, ME	2/6/19	DC
Drawn by	Date	Checked By:

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. 31168
Expiration Date 01/12/2021



The Maryland-National Capital
Park and Planning Commission

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