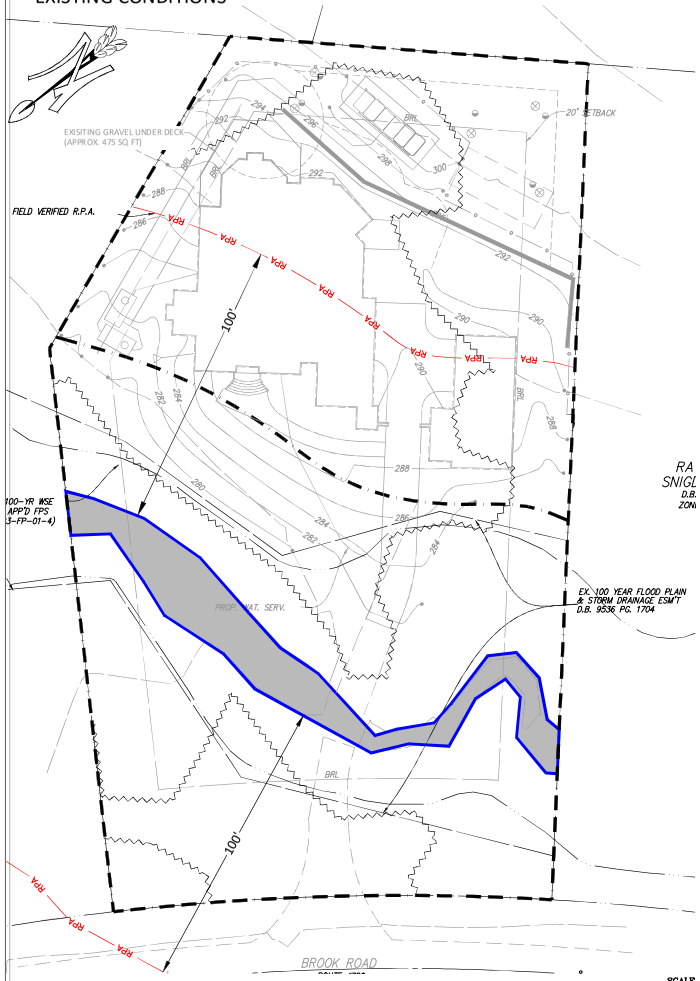
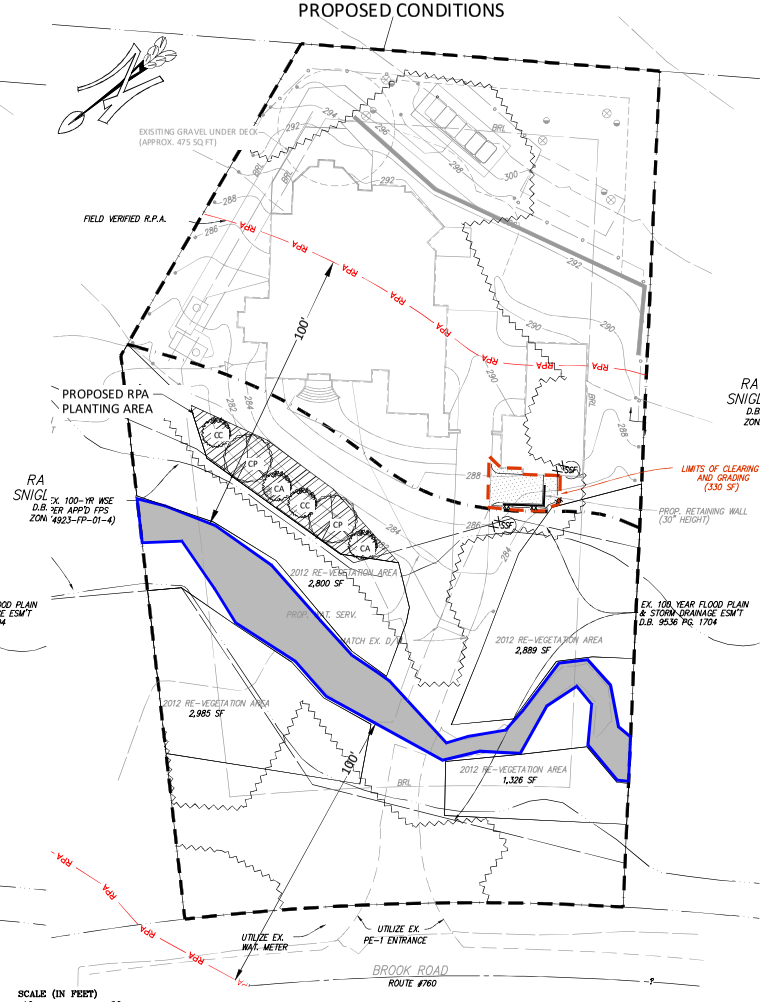
## EXISTING CONDITIONS




## PROPOSED CONDITIONS




SCALE (IN FEET)
10 20
20 0

## LEGEND

- PERENNIAL WATERS OF THE U.S. (R3) 226 LF (22,774 SF)
- STUDY AREA
- EXISITING TREE LINE
- RPA — SITE-SPECIFIC RESOURCE PROTECTION AREA (RPA)
- 50-FOOT SEAWARD BUFFER
- DISTURBED AREA WITHIN RPA (330 SF)
- PROPOSED SHRUB PLANTING AREA (845 SF)
- PROPOSED OVERSTORY TREE
- PROPOSED UNDERSTORY TREE
- LIMITS OF CLEARING AND GRADING
- SUPER SILT FENCE

TABLE 1: IMPERVIOUS AREA ANALYSIS

| | |
|---|---|
| Total Lot Area (SF) | 46,770 |
| Lot Area within the RPA (SF) | 34,331 |
| % Lot Area within the RPA | 73% |
| Date when the lot was created | 1995 |
| Date when the RPA was designated | 2003 |
| Total Proposed Lot Disturbance (SF) | 1,816 |
| Total Disturbed Areas within RPA (SF) | 1,816 |

| Summary: Impervious Area Analysis Tabulation | | | | | |
|---|---|---|---|---|---|
| Description | Existing Conditions Prior to 2012 | Exisiting Conditions Post July 5, 2012 | Proposed Conditions | Proposed Change in Impact since 2012* | Cumulative Change in Impact* |
| Total Lot Impervious Area (S.F.) | 6,407 | 9,033 | 9,217 | 184 | 2,810 |
| Total Impervious Area in RPA (SF) | 3,293 | 5,966 | 6,150 | 184 | 2,857 |
| Impervious Area within Seaward 50 ft RPA (SF) | 1,743 | 0 | 0 | 0 | -1,743 |
| **Detailed Breakdown: Impervious Area Analysis Tabulation** | | | | | |
| Primary Structure Footprint on the overall site (SF) | 1,519 | 5,246 | 5,246 | 0 | 3,727 |
| Primary Structure Footprint in the RPA (SF) | 0 | 3,390 | 3,390 | 0 | 3,390 |
| Total Gravel under Deck on the overall site (SF) | 0 | 475 | 475 | 0 | 475 |
| Total Gravel under Deck in the RPA (SF) | 0 | 0 | 0 | 0 | 0 |
| Total Walkway and Ret. Wall on the overall site (SF) | 39 | 418 | 418 | 0 | 379 |
| Total Walkway and Ret. Wall in the RPA (SF) | 17 | 15 | 15 | 0 | -2 |
| Total Driveway and Parking Spots on the overall site (SF) | 4,849 | 2,894 | 3,078 | 184 | -1,771 |
| Total Driveway and Parking Spots in the RPA (SF) | 3,276 | 2,561 | 2,745 | 184 | -531 |

*Note: Negative numbers in the change column indicate a decrease in impervious area in the proposed site conditions
*This table and its formatting were provided by Fairfax County staff. Minor changes have been made by TNT for clarification of the project*

TABLE 2: PLANTING SCHEDULE

| Common Name | Scientific Name | Size (DBH) | | Quantity |
|---|---|---|---|---|
| **Overstory Trees** | | | | |
| Willow Oak | *Quercus phellos* | 2" | | 2 |
| | | | **Subtotal** | **2** |
| **Understory Trees** | | | | |
| American Hornbeam | *Carpinus caroliniana* | 1" | | 2 |
| Downy Serviceberry | *Amelanchier arborea* | 1" | | 2 |
| | | | **Subtotal** | **4** |
| **Shrubs** | | | | |
| Northern Spicebush | *Lindera benzoin* | 1 Gallon | | 5 |
| Hazel Alder | *Alnus serrulata* | 1 Gallon | | 4 |
| Maple-Leaved Viburnum | *Viburnum acerifolium* | 1 Gallon | | 4 |
| Southern Arrowwood | *Viburnum dentatum* | 1 Gallon | | 4 |
| Silky Dogwood | *Cornus amomum* | 1 Gallon | | 4 |
| | | | **Subtotal** | **21** |
| | | | **Total** | **27** |

NOTE:

1. THE RESOURCE PROTECTION AREA IS COUNTY MAPPED.
2. THE PLANTINGS PROPOSED HEREON WILL BE INSTALLED BY HAND WHEREVER PRACTICABLE. SUB-CANOPY AND SHRUB LAYERS WILL BE RE-ESTABLISHED WHERE POSSIBLE BY THE PROPOSED PLANTING OPERATION.

COMMONWEALTH OF VIRGINIA
BRUCE J. PRICE
Lic. No. 46521
1/22/2021
PROFESSIONAL ENGINEER

RPA Boundary Location Certification

*(The following certification statement is to be placed on the plan, signed, and sealed by the licensed professional submitting the plan.)*

RPA Boundary Location Certification

The lot depicted on this infill lot grading plan includes an RPA. The locations of all RPA features have been verified in the field.

Checklist of RPA features which are present:

| YES | NO | |
|---|---|---|
| | | (1) A tidal wetland; |
| | | (2) A tidal shore; |
| X | | (3) A water body with perennial flow; |
| | | (4) A nontidal wetland connected by surface flow and contiguous to a tidal wetland or water body with perennial flow; |
| | | (5) A buffer area as follows: |
| | | (i) Any land within a major floodplain; |
| X | | (ii) Any land within 100 feet of a feature listed in (1) through (4). |

Supporting Documents:

☐ Jurisdictional determination or verification letter from the U.S. Army Corps of Engineers for all Waters of the U.S.

I hereby certify that:

Each of the individual features listed above, which together comprise the RPA, have been reviewed and the locations of the features and final RPA boundary shown on the plan are in conformance with the requirements of the Chesapeake Bay Preservation Ordinance.

Signature — Date: 1/22/2021

Bruce J. Price, PE — Name

46521 — Virginia license number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8747 BROOK ROAD
FAIRFAX COUNTY

WATER QUALITY IMPACT ASSESSMENT

REVISIONS

| DATE | COMMENTS |
|---|---|
| 2-24-20 | REV PER CNTY CMTS (JSM) |
| 3-18-20 | REV PER CNTY CMTS (JSM) |
| 4-21-20 | REV PER CNTY CMTS (JSM) |
| 6-29-20 | REV PER CNTY CMTS (JSM) |
| 11-4-20 | REV PER CNTY CMTS (JJ) |
| 1-21-21 | REV PER CNTY CMTS (JSM) |

SHEET 1 OF 1

SCALE: 1" = 20'

PROJECT DATE: 5/24/19

DRAFT: JSM — CHECK: AMC

FILE NUMBER: 1561