

OF STREAM LESS THAN 10' WIDTH  
EAST SIDE OF RIVERBANK

APE LOT 130  
M/F MARIA BENEDETTI AND  
STERLING S. SMITH

BENCH MARK  
STORM M.H. RIM  
ELEV. 49.83 (ASSUMED DATUM)

- LEGEND:**
- 45 --- EXISTING CONTOUR
  - x 45.0 EXISTING SPOT GRADE
  - W WATER LINE
  - S SEWER LINE
  - D DRAIN LINE
  - A1 A2 WETLAND FLAG
  - 50' PERIMETER WETLAND
  - 100' RIVERBANK SETBACK
- PLAN**  
1" = 30'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED 2/20/20 FILE # 20-0060  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy Freeman*  
**OWNER:**  
**3T, LLC**  
c/o CHRISTINE TORRELLI  
300 WALMSLEY LANE  
SLUNDERSTOWN, R.I. 02874

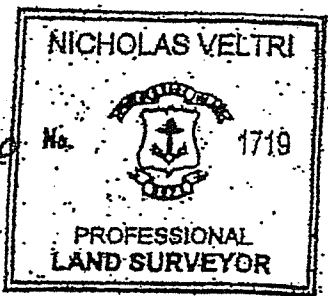
JUN 17 2020

**CERTIFICATION**  
This survey has been conducted and the plan has been prepared pursuant to Section 9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors on Nov. 25, 2015 as follows:

Type of Boundary Survey:  
**DATA ACCUMULATION CLASS III**

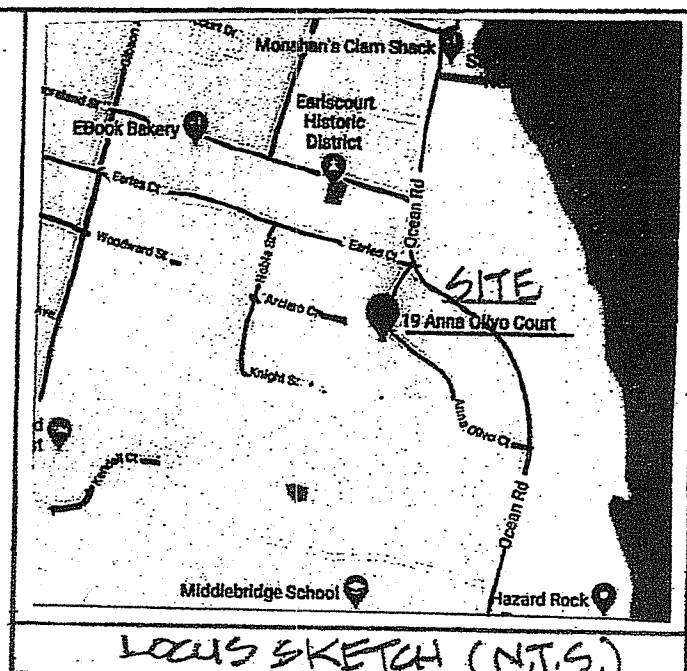
The purpose for the conduct of the survey and for the preparation of the plan is as follows: **WETLAND APPLICATION**

By *Nicholas Veltri* 2/20/20  
**Nicholas Veltri, RPLS**  
COA - 248

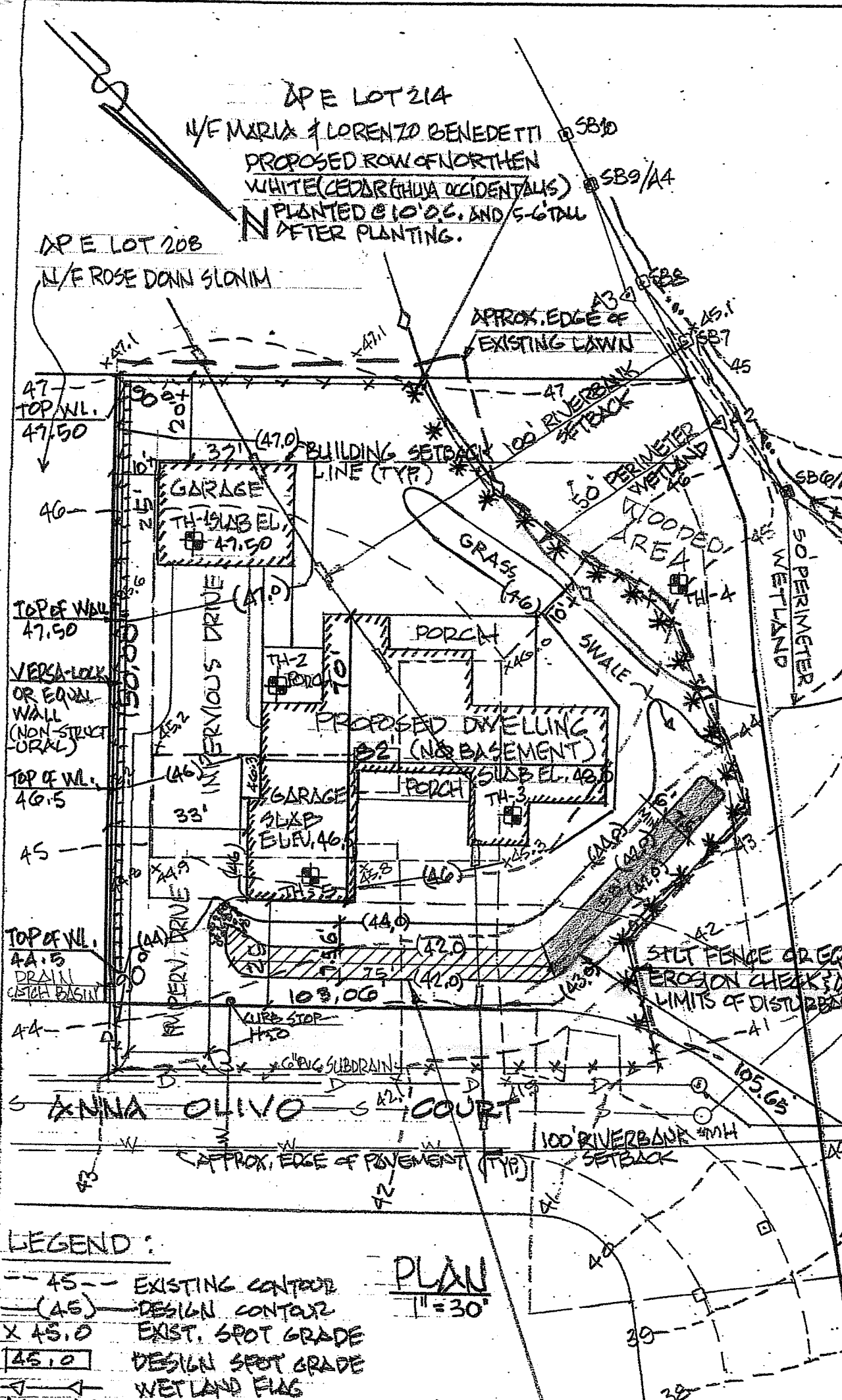


N. VELTRI SURVEY, INC. SURVEYING-LAND PLANNING JOHNSTON (401) 231-3200 NARRAGANSETT (401) 789-1300		
NO.	DATE	REVISION
1	4/16/20	LOT 206 DROPPED INTO LOT 207
	2/20/20	ORIG. ISSUE
SHEET 1 OF 3 SHEETS		
CHECKED BY: N.V.		

EXISTING CONDITION PLAN  
NARRAGANSETT, R.I. APE LOT 207  
PREPARED FOR  
**3T, LLC**  
SCALE AS NOTED DRAWN: NV



LOUIS SKETCH (N.T.S.)



APE LOT 130  
 1/2 MARIA BENEDETTI AND STERLING S. SMITH

IMPERVIOUS AREAS

EXIST. DWELLING	- 2,700 S.F.
EXIST. PAVED DRIVE	- 805 S.F.
TOTAL	- 3,505 S.F.
PROPOSED DWELLING	- 4,200 S.F.
PROPOSED GARAGE	- 800 S.F.
PROPOSED PAVED DRIVE	- 2,300 S.F.
TOTAL	- 7,300 S.F.
NET INCREASE	- 3,795 S.F.

BENCH MARK  
 STORM M.H. RIM  
 ELEV. 40.83 (ASSUM. DATA)

- LEGEND:**
- 45 --- EXISTING CONTROL
  - (45) DESIGN CONTROL
  - X 45.0 EXIST. SPOT GRADE
  - [45.0] DESIGN SPOT GRADE
  - WETLAND FLAG
  - A1 A2 STREAM BANK (WEST SIDE)
  - SB-1 50' PERIMETER WETLAND
  - 100' RIVERBANK SETBACK
  - ESHWT TEST PIT
  - \* \* \* SILT FENCE OR EQUAL EROSION CHECK AND ALSO LIMITS OF DISTURBANCE (L.O.D.)
- PLAN**  
 1" = 30'

**CERTIFICATION**  
 This survey has been conducted and the plan has been prepared pursuant to Section 9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors on Nov. 25, 2015 as follows:  
 Type of Boundary Survey:  
**DATA ACCUMULATION CLASS III**

The purpose for the conduct of the survey and for the preparation of the plan is as follows: **WETLANDS APPLICATION**

By: *Nicholas Veltri* 2.25.20  
**NICHOLAS VELTRI, RPLS**  
 COA - A 48



**PROPOSED VEGETATE SWALE**  
 BOTTOM DIMS. 7.5' X 7.5' = 56.25 S.F.  
 SIDE SLOPES 3:1  
 (SEE X-SECTION PG. 2 OF 3)

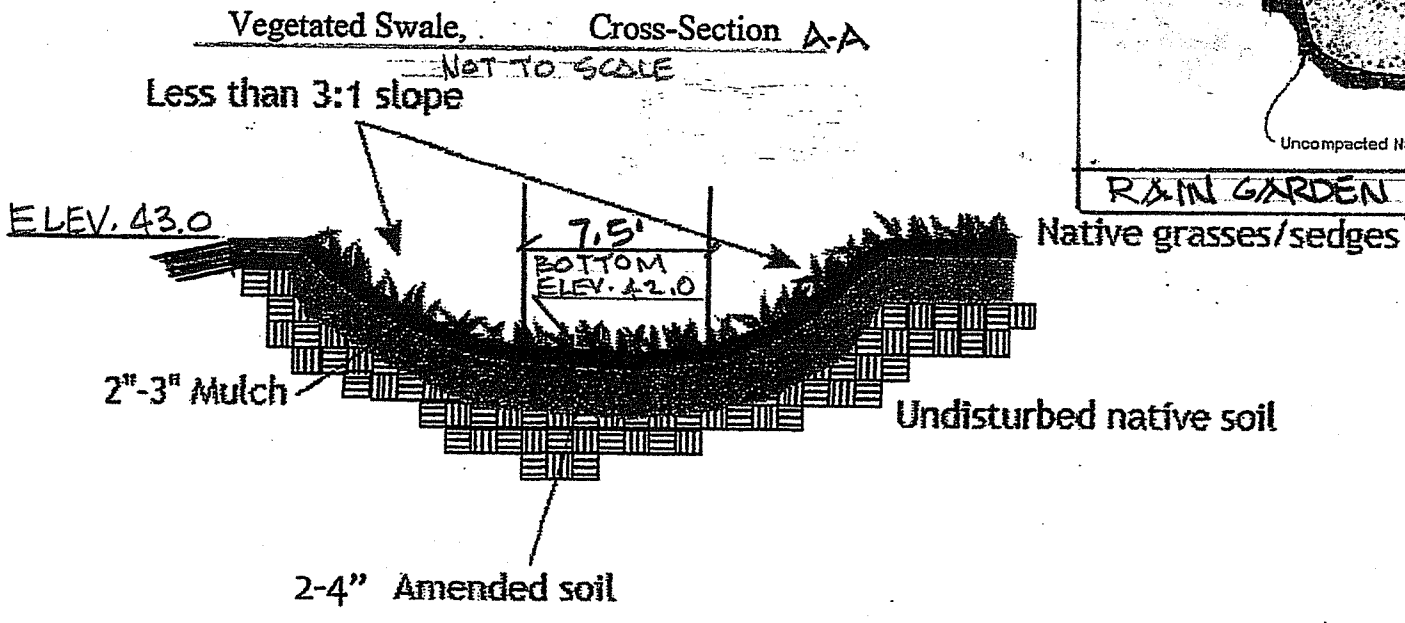
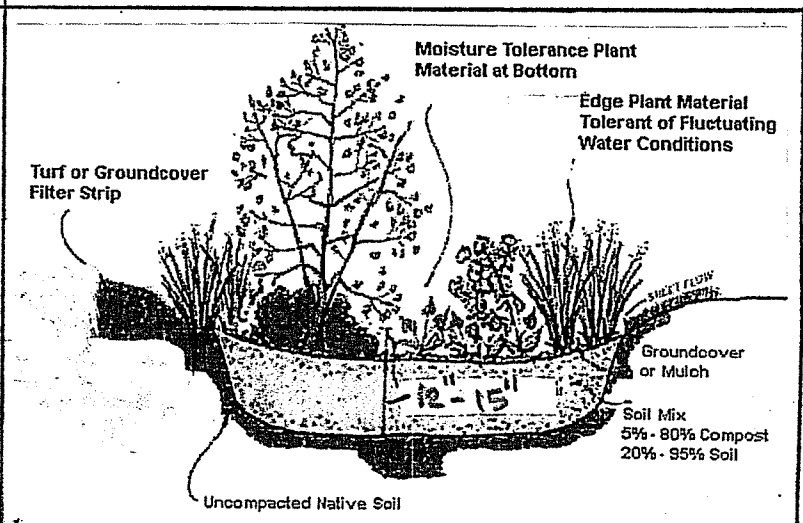
**TEST DATA RESULTS**

TH No.	DEPTH	DEPTH TO H <sub>2</sub> O	WATER ELEV.
1	4.5'	2'-6"	43.30
2	4.5'	2'-5"	43.08
3	4.5'	3'-0"	42.10
4	4.5'	2'-5"	42.6
5	4.5'	4'-6"	41.30

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 2 2020 FILE # 20-0060  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

N. VELTRI SURVEY, INC.		NO.	DATE	REVISION
SURVEYING-LAND PLANNING				
JOHNSTON (401) 231-3200				
NARRAGANSETT (401) 789-1300				
<b>PROPOSED IMPROVEMENTS PLAN</b>		1	4.26.20	UPDATED PLAN PER DEM COMMENT
NARRAGANSETT, R.I., APE LOT 207			2.25.20	ORIG. ISSUE
OWNER: 3T, LLC				
SCALE AS NOTED DRAWN: NV				
				SHEET 2 OF 3 SHEETS
				CHECKED BY: N.V.

**VEGETATED SWALE AREA CALCULATIONS:**  
 NET IMPERVIOUS AREAS - 3,795 S.F. (SHEET 2 OF 3)  
 SWALE SIZING BASED ON SILTY SOILS  
 $3,795 \div 1000 \times 100 = 607.2$  S.F. (BOTTOM AREA) REQUIRED  
 PROVIDED 7.5' WIDE X 133' LONG = 997.5 S.F. (BOTTOM AREA)



**Table 4. Required Elements for Vegetated Swales on Single-Family Residential Lots**

<b>Conveyance</b>	<input checked="" type="checkbox"/> Vegetated swales shall be designed with moderate side slopes flatter than 3:1 for most conditions. <input checked="" type="checkbox"/> Vegetated swales shall have a maximum longitudinal slope of 4% (e.g. 4 foot drop over a horizontal distance of 100 feet).
<b>Treatment</b>	<input checked="" type="checkbox"/> The average surface ponding depth shall be no more than a 8 inches deep. <input checked="" type="checkbox"/> The bottom width shall be no less than 2 feet and no greater than 8 feet wide <input checked="" type="checkbox"/> A maximum ponding depth of 1 ft should be maintained at the longitudinal midpoint of the vegetated swale and a maximum depth of 18 inches at the end point. <input checked="" type="checkbox"/> Swales should contain a 2 - 4 inch amended soil layer and a 2 - 3 inch mulch layer. <input checked="" type="checkbox"/> The amended soil layer of a rain garden should be a 50/50 mixture of the excavated native soils and mature organic compost.
<b>Vegetation</b>	<input checked="" type="checkbox"/> Grasses or sedges are typically used in vegetated swales, but other native plants can be used as well. Please refer to the RI Coastal Plant Guide ( <a href="http://www.uri.edu/cels/ceoc/coastalPlants/CoastalPlantGuide.htm">www.uri.edu/cels/ceoc/coastalPlants/CoastalPlantGuide.htm</a> ) and modify the selection for native plants suited to rain gardens.
<b>Maintenance</b>	<input checked="" type="checkbox"/> Vegetated swales shall be inspected annually and should be inspected after large storm events.
	<input checked="" type="checkbox"/> Eroded side slopes and channel bottoms shall be stabilized as necessary. <input checked="" type="checkbox"/> If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded. <input checked="" type="checkbox"/> Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range. <input checked="" type="checkbox"/> Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS  
 AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED JUL 2 2020 FILE # 20-0060  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Randy Felner*

**NOTES:**  
 SILT FENCE OR EQUAL TO BE INSTALLED PRIOR TO START OF SOIL DISTURBANCE AND TO REMAIN IN PLACE & OPERATIONAL UNTIL THE SITE IS STABILIZED WITH LANDSCAPING.

**CERTIFICATION**  
 This survey has been conducted and the plan has been prepared pursuant to Section 9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors on Nov. 25, 2015 as follows:  
 Type of Boundary Survey:  
 DATA ACCUMULATION CLASS IV

The purpose for the conduct of the survey and for the preparation of the plan is as follows: WETLANDS APPLICATION

By *Nicholas Veltri* RPLS  
 NICHOLAS VELTRI 2.26.20  
 BDA - 248



N. VELTRI SURVEY, INC. SURVEYING-LAND PLANNING JOHNSTON (401) 231-3200 NARRAGANSETT (401) 789-1300		NO.	DATE	REVISION
DETAILS & NOTES NARR., R.I. DP-E LOT. 207 OWNER: B.T. LLC SCALE AS NOTED   DRAWN: N.V.		1	2/16/20	ADDED RAIN GARDEN
			2/26/20	ORIG. ISSUE
		SHEET 3 OF 3 SHEETS		
		CHECKED BY: N.V.		

**UTILITY DISCLAIMER**  
 LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE PLANS OR NOT, DURING WORK ON THE PROJECT.