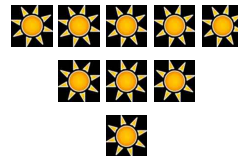


VEGETATED BUFFER MAINTENANCE GUIDELINES

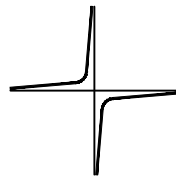
NATICK AVENUE SOLAR

NATICK AVENUE
CRANSTON, RHODE ISLAND

JANUARY 4, 2022



THIS DOCUMENT IS INTENDED TO BE AN
ADDENDUM TO THE NATICK AVENUE
SOLAR LANDSCAPE PLANS TITLED
'LANDSCAPE PLANS' PREPARED BY JOHN
C. CARTER & COMPANY DATED MAY 8,
2020, LAST UPDATED 01-03-22.



PREPARED BY:

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LANDSCAPE ARCHITECTURE
DESIGN & BUILD

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PREFACE

NAME OF PROJECT: NATICK AVENUE SOLAR

LOCATION: NATICK AVENUE, CRANSTON, RHODE ISLAND

CONTACTS:

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I. INTRODUCTION

THE INTENTION OF THIS DOCUMENT IS TO PROVIDE GUIDANCE FOR THE MAINTENANCE OF THE PROPOSED VEGETATED BUFFERS BETWEEN THE PLANNED SOLAR FIELD AND THE ABUTTING RESIDENTIAL PROPERTIES.

a. SITE DESCRIPTION

THE PROJECT SITE IS APPROXIMATELY 64 +/- ACRES AND IS LOCATED OFF NATICK AVENUE IN WESTERN CRANSTON. IT IS PART OF AN EXISTING WORKING FARM, BORDERED BY STONEWALLS, AND CONSISTS OF ROLLING TOPOGRAPHY WITH A COMBINATION OF DECIDUOUS AND EVERGREEN TREES AND SHRUBS. THE PROPERTY ABUTS RESIDENTIAL PROPERTIES TO THE NORTH, NORTHEAST, NORTHWEST AND SOUTHEAST. A GRASS / GRAVEL ROAD WHICH ALIGNS WITH A GAS EASEMENT RUNS ALONG ITS SOUTHERN BORDER.

b. PROJECT DESCRIPTION

A GROUND MOUNTED SOLAR FACILITY IS PROPOSED TO BE INSTALLED. THE SOLAR PANELS ARE TO BE ARRANGED IN AN ARRAY AND ORIENTED TO MAXIMIZE THE CAPTURING OF SUNLIGHT. THE SITE WILL UNDERGO PREPARATION TO ACCOMMODATE THE SOLAR PANELS AND THIS WILL ENTAIL THE PROTECTION OF SELECT EXISTING VEGETATION AND THE PLANTING OF ADDITIONAL VEGETATION TO PROVIDE A VISUAL BUFFER BETWEEN THE SOLAR PANELS AND THE ABUTTING RESIDENTIAL PROPERTIES. THE PROJECT OWNERS HAVE WORKED WITH THE CITY AND AN AD HOC COMMITTEE IN THE DEVELOPMENT OF A LANDSCAPE PLAN FOR THIS VEGETATIVE BUFFER.

c. BUFFER PLANTINGS

SELECT AREAS OF EXISTING VEGETATION WILL REMAIN AND SUPPLEMENTAL BUFFER PLANTINGS ARE PROPOSED TO BE INSTALLED BETWEEN THE SOLAR ARRAY AND ABUTTING RESIDENTIAL PROPERTIES (SEE EXHIBIT 1). THE SUPPLEMENTAL PLANTINGS WILL CONSIST OF A COMBINATION OF EVERGREEN AND DECIDUOUS TREES AND SHRUBS WHICH ARE INTENDED TO ESTABLISH A LAYERED HABITAT. (SEE EXHIBITS 2&3) THE GOAL OF THE BUFFER PLANTINGS IS TO ESTABLISH A NATURALIZED VEGETATED VISUAL BUFFER SCREEN FOR THE LIFE OF THE PROJECT.

II. MAINTENANCE PROCEDURES

*ALL MANAGEMENT ACTIVITIES WITHIN THE REQUIRED BUFFER ZONES ARE TO BE THE MINIMUM NECESSARY TO ALLOW THE PLANTINGS TO MATURE IN A NATURAL AND UNMANAGED GROWTH HABIT.

THE FOUR ANTICIPATED ACTIVITIES ARE AS DESCRIBED BELOW:

1. AGGRESSIVE SPECIES REMOVAL

- a. IN ORDER FOR THE NEWLY INSTALLED TREES AND SHRUBS TO ESTABLISH, IT WILL BE NECESSARY TO REMOVE ANY INVASIVE PLANTS AND AGGRESSIVE VINES WHICH ARE SIGNIFICANTLY IMPEDING THEIR GROWTH SUCH AS:

ORIENTAL BITTERSWEET - CELASTRUS ORBICULATUS
POISON IVY - TOXICODENDRON RADICANS
WILD GRAPE - VITIS SP.
GREENBRIAR - SMILAX ROTUNDIFOLIA

- b. AS PART OF THE NATURALIZATION OF THE BUFFER PLANTINGS, OTHER UNINTENDED NATIVE PLANTS MAY ESTABLISH. ONLY PLANTS WHICH ARE SIGNIFICANTLY NEGATIVELY IMPACTING THE GROWTH OF THE NEW PLANTINGS ARE TO BE REMOVED.



2. CONTROL OF INVASIVE SPECIES

a. PERIODIC VISUAL INSPECTIONS SHALL TAKE PLACE WITH AN EMPHASIS OF CONTROL OF INVASIVE PLANTS TYPICAL OF THE REGION SUCH AS:

JAPANESE KNOTWEED - REYNOUTRIA JAPONICA
AUTUMN OLIVE - ELAEAGNUS UMBELLATA
MULITFLORA ROSE - ROSA MULTIFLORA
JAPANESE BARBERRY - BERBERIS THUNBERGII
MUGWORT - ARTEMISIA VULGARIS

b. PLANTS WHICH ARE IDENTIFIED TO BE REMOVED ARE TO BE PULLED OUT OF THE GROUND BY HAND OR CUT FLUSH IF THEY ARE TOO LARGE TO REMOVE BY HAND.

c. ONLY MECHANICAL OR HAND REMOVING IS TO BE USED. (JUDICIOUS SPOT SPRAYING WITH OVER THE COUNTER HERBICIDES SUCH AS "ROUND-UP" MAY BE USED IF POISON IVY IS PRESENT.)

3. MAINTENANCE PRUNING

a. CUTTING, CLIPPING OR PRUNING OF THE BUFFER PLANTINGS IS ONLY ALLOWED TO REMOVE DISEASED, BROKEN, OR FALLEN LIMBS WHICH INHIBIT OR PREVENT THE NATURAL GROWTH OF THE BUFFER VEGETATION.

b. PRUNING IS NOT ALLOWED FOR DECORATIVE OR ORNAMENTAL PURPOSES.

c. PRUNING IS ALLOWED TO MAINTAIN PLANTING AREA 'D' AT A MINIMUM HEIGHT OF 12' AND AREA 'E' AT A MINIMUM HEIGHT OF 18'

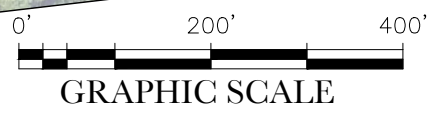
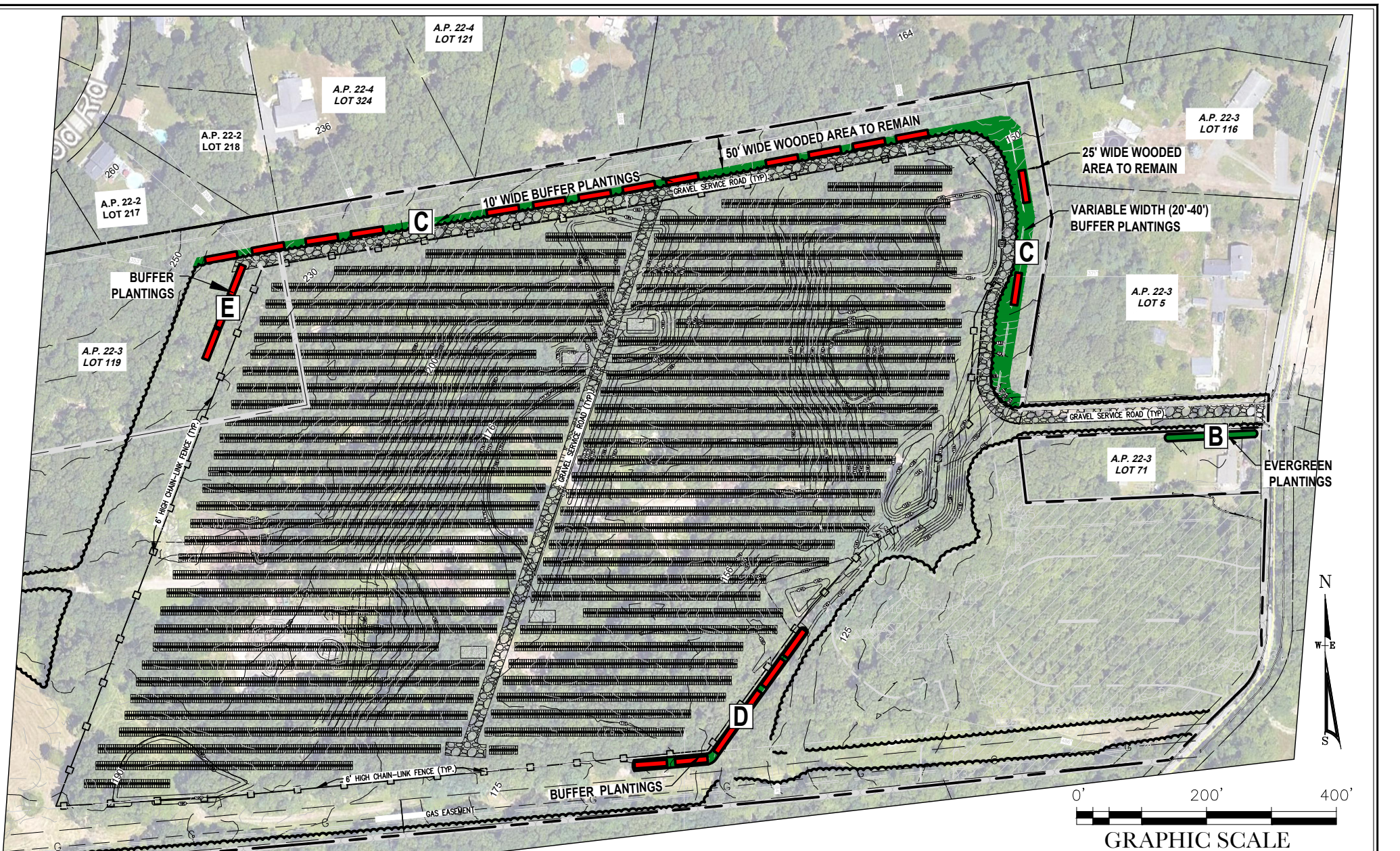
d. ALL PRUNING SHALL BE DONE BY HAND TOOLS ONLY. NO "NEED WACKERS" SHALL BE USED WITHIN THE PLANTED BUFFERS. CUTS SHALL BE MADE IN CONFORMANCE WITH BEST HORTICULTURAL PRACTICES. FOR FURTHER GUIDANCE ON PRUNING TECHNIQUES PLEASE REFERENCE:

AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS - TREE SHRUB, AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (PRUNING)
1 ANSI A300 STANDARDS
SECTION 2 PART 1 PRUNING STANDARDS
5 PRUNING PRACTICES

4. REPLACEMENT

ANY DEAD TREES, SHRUBS OR GROUNDCOVERS SHALL BE REPLACED PER THE 'CONDITIONS OF APPROVAL', AND IN ACCORDANCE WITH LANDSCAPE PLANS PREPARED BY JOHN C. CARTER & COMPANY, INC., DATED MAY 8, 2020, LAST UPDATED 01-03-22.





LEGEND

PROPERTY LINE	---
CONTOURS EXISTING	---
CONTOURS PROPOSED	---
CHAIN-LINK FENCE PROPOSED	—□—□—□—
PROPOSED TREE LINE	~~~~~
SOLAR PANELS PROPOSED	
CLEARED AREA WITH 50'X10' PLANTING PATTERN	—C D—
SUPPLEMENTAL BUFFER PLANTINGS	—A B E—



EXHIBIT 1

SEE SHEET 1 OF LANDSCAPE PLANS PREPARED BY JOHN C. CARTER & COMPANY DATED MAY 8, 2020, LAST UPDATED 01-03-22.

PLANT SCHEDULE

AREA 'A'

<u>KEY</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>NOTES</u>
PS	10	PINUS STROBUS	EASTERN WHITE PINE	5-8' HT.	10' O.C.

AREA 'B'

<u>KEY</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>NOTES</u>
PS	10	PINUS STROBUS	EASTERN WHITE PINE	5-8'	10' O.C.
TP	4	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	5-8'	10' O.C.

NOTE:
PLANT AREAS 'A' AND 'B'
ARE NOT PART OF THE
NATICK AVENUE SOLAR
PROJECT UNDER REVIEW BY
THE CITY OF CRANSTON.

AREAS 'C', 'D' & 'E'

TREES

<u>KEY</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>NOTES</u>
AC1	35	AMELANCHIER CANADENSIS OR BETULA POPULIFOLIA	SHADBLOW SERVICEBERRY GRAY BIRCH	5-6' HT.	CLUMP
AC2	50	AMELANCHIER CANADENSIS OR BETULA POPULIFOLIA	SHADBLOW SERVICEBERRY GRAY BIRCH	8-10' HT.	CLUMP
IO	20	ILEX OPACA	AMERICAN HOLLY	4-5' HT.	
JV	95	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7-8' HT.	
PS1	30	PINUS STROBUS	EASTERN WHITE PINE	4-5' HT.	
PS2	30	PINUS STROBUS	EASTERN WHITE PINE	7-8' HT.	

SHRUBS

<u>KEY</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>
	200	TOTAL		
		VACCINIUM CORYMBOSUM	HIGH BUSH BLUEBERRY	2 1/2-3'
		VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	2 1/2-3'
		MORELLA PENNSYLVANICA	BAYBERRY	2 1/2-3'
		CORNUS RACEMOSA	GRAY DOGWOOD	2 1/2-3'



GRASS SEED MIXES

OR APPROVED EQUAL - AVAILABLE AT: ALLEN'S SEED,
693 SOUTH COUNTY TRAIL (RT. 2), EXETER, RI 02822.

ENERGYSCAPE SOLAR LOW/SOW GROWING MIX

FOR THE AREA BENEATH THE SOLAR PANELS - RATE 7-8 LBS/M/SQ

<u>PERCENT</u>	<u>INGREDIENT</u>
25 %	CHEWINGS FESCUE
25 %	SHEEP FESCUE
12.25 %	HARD FESCUE
12.25 %	STRONG CREEPING RED FESCUE
12.25 %	CREEPING RED FESCUE
12.25 %	HARD FESCUE

SOLAR SURROUNDINGS MIX

FOR ALL OTHER DISTURBED AREAS OTHER THAN BENEATH THE
SOLAR PANELS. - RATE 30-40 LBS/ACER

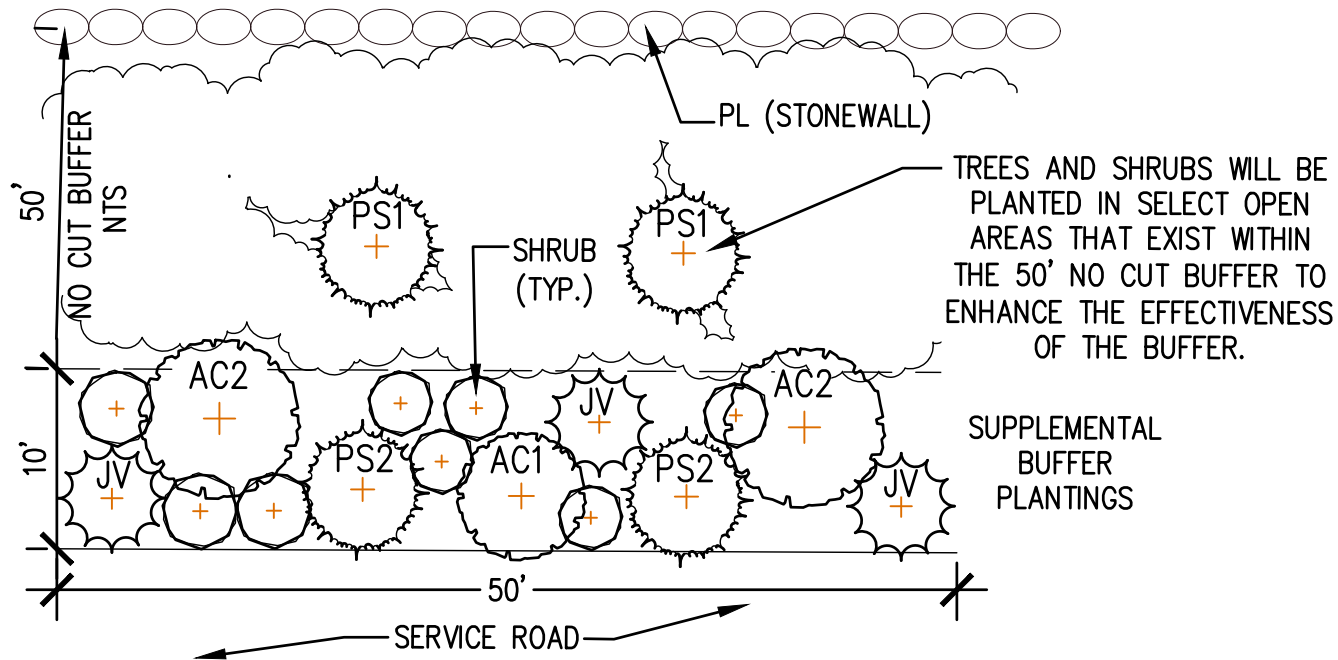
<u>PERCENT</u>	<u>INGREDIENT</u>
20 %	VIKING H2O HARD FESCUE
20 %	SHEEP FESCUE
15 %	ANNUAL RYE
15 %	VIRGINIA WILD RYE
15 %	LITTLE BLUE STEM
5 %	INDIAN GRASS
3.5%	PARTRIDGE PEA
1.75%	BLACK EYED SUSAN
1.5%	LANCELEAF COREPSIS
1%	OXEYE SUNFLOWER
1%	PURPLE CONE FLOWER
.25%	BUTTERFLY MILKWEED
.25%	NEW ENGLAND ASTER
.25%	PURPLE JOE PYE WEED
.25%	WILD BERGAMOT
.25%	BONESET

DETENTION PONDS AND STEEP SLOPES WILL BE
SEEDED AS SPECIFIED IN THE DEM APPROVED PLAN
PREPARED BY DIPRETE ENGINEERING.



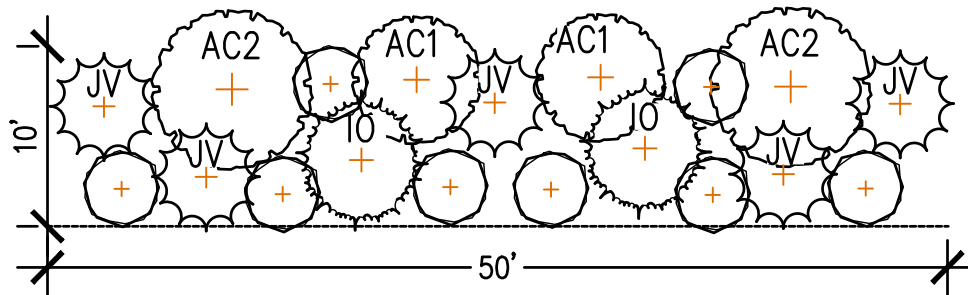
EXHIBIT 2

SEE SHEET 6 OF LANDSCAPE
PLANS PREPARED BY JOHN
C. CARTER & COMPANY
DATED MAY 8, 2020, LAST
UPDATED 01-03-22.



C-TYPICAL SUPPLEMENTAL PLANTING DETAIL - 50' PATTERN

SCALE: NTS



D & E -TYPICAL (AMENDED) SUPPLEMENTAL PLANTING DETAIL - 50' PATTERN

SCALE: NTS



EXHIBIT 3

SEE SHEET 6 OF LANDSCAPE
PLANS PREPARED BY JOHN
C. CARTER & COMPANY
DATED MAY 8, 2020, LAST
UPDATED 01-03-22.