

PLANT SCHEDULE

Symbol	Quantity	Botanical Name	Common Name	Size	Spacing	Notes
TREES						
AC FR	4	<i>Acer x freemanii</i> 'Marmo'	Marmo Freeman Maple	4-5" Cal.		Single-stem, matched
BE PO	4	<i>Betula populifolia</i>	Grey Birch	3-4" Cal.		Multi-stem, matched
CE OC	4	<i>Celtis occidentalis</i>	Hackberry	4-5" Cal.		B&B; matched
CO SP	2	<i>Cornus 'Rutgan'</i> Stellar Pink	Stellar Pink Dogwood	3-4" Cal.		B&B; matched
GI BI	4	<i>Ginkgo biloba</i> 'Magyar'	Magyar Ginkgo	5-6" Cal.		B&B; matched
GY DI	4	<i>Gymnocladus dioicus</i>	Kentucky Coffee Tree	4-5" Cal.		Single-stem, matched
HA VE	2	<i>Hamamelis vernalis</i> 'Autumn Embers'	Autumn Embers Witch Hazel	6-8' Ht.		Multi-stem, matched
LI ST	3	<i>Liquidambar styraciflua</i>	Sweetgum	4-5" Cal.		Single-stem, matched
QU RO	3	<i>Quercus robur x bicolor</i> 'Long'	Regal Prince Oak	4-5" Cal.		B&B; matched
SHRUBS						
Co Pe		<i>Comptonia peregrina</i>	Sweet Fern	#3 Container	36" O.C.	
Co Ra		<i>Cornus sericea</i> 'Cardinal'	Cardinal Red Twig Dogwood	#5 Container	36" O.C.	
De Gr		<i>Deutzia gracilis</i> 'Nikko'	Nikko Deutzia	#3 Container	30" O.C.	
Fo Ga		<i>Fothergilla gardenii</i> 'Mount Airy'	Mount Airy Fothergilla	#5 Container	36" O.C.	
Hy Qu		<i>Hydrangea quercifolia</i> 'Pee Wee'	Oakleaf Hydrangea	#5 Container	48" O.C.	
Li Be		<i>Lindera Benzoin</i>	Spice Bush	#5 Container	36" O.C.	
Ix GI		<i>Ilex glabra</i> 'Shamrock'	Shamrock Inkberry	#5 Container	36" O.C.	
II Ji		<i>Ilex verticillata</i> 'Jim Dandy'	Jim Dandy Winterberry	#5 Container	48" O.C.	
II Ve		<i>Ilex verticillata</i> 'Red Sprite'	Red Sprite Winterberry	#5 Container	48" O.C.	
My Pe		<i>Myrica pensylvanica</i>	Northern Bayberry	#5 Container	48" O.C.	
Rh GI		<i>Rhus aromatica</i> 'Gro-Low'	Fro-Low Fragrant Sumac	#3 Container	30" O.C.	
Rh Mh		<i>Rhododendron x 'Marie Hoffman'</i>	Mare Hoffman Azalea	#5 Container	48" O.C.	
Sp To		<i>Spiraea tomentosa</i>	Steeplebush	#3 Container	30" O.C.	
PERENNIALS						
am hu		<i>Amsonia x 'Blue Ice'</i>	Blue Star Flower	#2 Container	18" O.C.	
as ob		<i>Aster oblongifolius</i> 'Raydon's Favorite'	Raydon's Favorite Aster	#2 Container	24" O.C.	
ba bi		<i>Baptisia australis</i>	Blue False Indigo	#3 Container	30" O.C.	
ga od		<i>Galium odoratum</i>	Sweet Woodruff	#2 Container	12" O.C.	
ge ro		<i>Geranium x 'Rozanne'</i>	Rozanna Cranesbill	#2 Container	18" O.C.	
he vi		<i>Heuchera villosa</i> 'Autumn Bride'	Autumn Bride Coral Bells	#2 Container	18" O.C.	
he hr		<i>Hemerocallis 'Happy Returns'</i>	Happy Returns Daylily	#2 Container	24" O.C.	
li sp		<i>Liriope spicata</i>	Lilyturf	4" Container	10" O.C.	
os ci		<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	#2 Container	30" O.C.	
po od		<i>Polygonatum odoratum var. pluriflorum</i> 'Variegatum'	Variegated Solomon's Seal	#2 Container	15" O.C.	
ti co		<i>Tiarella cordifolia</i>	Foamflower	#2 Container	15" O.C.	
va an		<i>Vaccinium angustifolium</i>	Lowbush Blueberry	#2 Container	15" O.C.	
ORNAMENTAL GRASSES						
bo cu		<i>Bouteloua curtipendula</i>	Side Oats Grama	#2 Container	30" O.C.	
ca pe		<i>Carex pennsylvanica</i>	Pennsylvania Sedge	#2 Container	30" O.C.	
ca ac		<i>Calamagrostis acutiflora</i> 'Karl Foerster'	Feather Reed Grass	#3 Container	30" O.C.	
de ce		<i>Deschampsia cespitosa</i> 'Pixie Fountain'	Tufted Hair Grass	#2 Container	30" O.C.	
mi si		<i>Miscanthus sinensis</i> 'Adagio'	Dwarf Silver Grass	#2 Container	30" O.C.	
pe al		<i>Pennisetum alopecuroides</i> 'Hamelin'	Hameln Dwarf Fountain Grass	#2 Container	24" O.C.	
SEED MIXES						
Low Mow Grass Mix		<i>Ernst Seed Fescue Mix composed of 45% Creeping Red Fescue/ 27.5% Hard Fescue 'Minimus' / 27.5% Hard Fescue 'Beacon'</i>				

PLANTING NOTES

- LANDSCAPE ARCHITECT TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE.
- PLANT MATERIAL SHALL CONFORM TO "THE AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- NO SUBSTITUTIONS OF PLANT SPECIES WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
- SUBSTITUTIONS OF PLANT SPECIES SHALL BE A PLANT OF EQUIVALENT OVERALL FORM, HEIGHT AND BRANCHING HABIT, FLOWER, LEAF AND FRUIT, COLOR AND TIME OF BLOOM, AS APPROVED BY LANDSCAPE ARCHITECT.
- LOCATE AND VERIFY UTILITY LINE LOCATIONS PRIOR TO STAKING AND REPORT CONFLICTS TO LANDSCAPE ARCHITECT.
- PLANTING DEMOLITION DEBRIS, GARBAGE, LUMPS OF CONCRETE, STEEL AND OTHER MATERIALS DELETERIOUS TO PLANT'S HEALTH AS DETERMINED BY LANDSCAPE ARCHITECT SHALL BE REMOVED FROM ALL PLANTING AREAS.
- NO PLANTING TO BE INSTALLED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PROPOSED TREE LOCATIONS SHALL BE STAKED OR LAID OUT IN THEIR APPROXIMATE LOCATION BY THE CONTRACTOR. REFER TO LAYOUT AND PLANTING SHEETS FOR LAYOUT INFORMATION. THE CONTRACTOR SHALL ADJUST THE LOCATIONS AS REQUESTED BY THE LANDSCAPE ARCHITECT TO ACCOUNT FOR SUBSURFACE UTILITIES AND OTHER FIELD CONDITIONS. FINAL LOCATIONS OF ALL PLANTS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- PRIOR TO PLANTING, FOR B&B TREES, LANDSCAPE CONTRACTOR TO CAREFULLY EXPOSE ROOT COLLAR TO REMOVE EXCESS SOIL PLACED ON TOP OF ROOT COLLAR DURING B&B PROCESS. DURING TREE PLANTING, ROOT COLLAR TO BE PLACED 2'-3" ABOVE SURROUNDING FINISHED GRADE AND SOIL AROUND IT PLACED TO TRANSITION UP TO MEET ROOT COLLAR. CITY ARBORIST TO BE NOTIFIED AND TREE PLANTINGS ARE TO BE REVIEWED WITH CITY ARBORIST PRIOR TO PLANTING. CITY ARBORIST MAY REJECT TREE PLANTINGS IF THE TREES PLANTINGS AND SOIL CONDITIONS ARE NOT PERFORMED TO THE SATISFACTION OF THE CITY.
- PLANT UNDER FULL TIME SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR LANDSCAPE ARCHITECT'S APPROVAL.
- WATER PLANTS THOROUGHLY AFTER INSTALLATION, A MINIMUM OF TWICE WITHIN THE FIRST 24 HOURS.
- IRRIGATE EACH TREE WITH TREEGATOR SLOW RELEASE WATERING BAG. USE A DOUBLE BAG SETUP (2 SINGLE BAGS ZIPPED TOGETHER BACK-TO-BACK) TO WATER 4 INCH TO 8 INCH CALIPER TREES. IF THE SOIL IS STIFF RAKE SOIL TO ALLOW WATER TO BETTER PENETRATE.
- REPAIR DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF LIMIT OF WORK
- SOAK ALL PERENNIALS FOR 24 HOURS PRIOR TO INSTALLATION
- BUFFER SEED MIX AREA TO BE WATERED AND MONITORED DURING ESTABLISHMENT TO ENSURE SEED COVERAGE AND ESTABLISHMENT IS UNIFORM AND HEALTHY AND UNTIL ACCEPTANCE.
- MOWING OF THE BUFFER SEED MIX AREA FOLLOWING ESTABLISHED AND ACCEPTANCE SHALL OCCUR TWICE A YEAR - IN SPRING PRIOR TO NEW GROWTH AND THE AUTUMN AFTER DORMANCY. MOWING IS NOT TO OCCUR IN THE HEAT OF SUMMER. MOWING ENCOURAGES ESTABLISHMENT VIA ROOT SYSTEM GROWTH AND MITIGATES GROWTH OF WEEDS, UNDESIRABLE AND INVASIVE SPECIES.
- MOWING HEIGHT TO BE NOT LESS THAN 3".

SAND BASED STRUCTURAL SOIL PLANTING MEDIUM NOTES

- THE SAND-BASED STRUCTURAL SOIL PLANTING MEDIUM SHALL CONSIST OF A BLEND OF ONE PART COARSE SAND, ONE PART LOAM AND ONE PART ORGANIC AMENDMENT. BLENDING OF THE COMPONENTS SHALL BE CARRIED OUT WITH EARTH MOVING EQUIPMENT PRIOR TO PLACEMENT. THE COMPONENTS SHALL BE BLENDED TO CREATE A UNIFORM MIXTURE.
- PROVIDE A SHOP DRAWING OF SAND BASED STRUCTURAL SOIL PLANTING MEDIUM (SIEVE, PH, ORGANIC CONTENT, SAND/LOAM/ORGANIC AMENDMENT PERCENTAGES) TO A&M FOR APPROVAL PRIOR TO PURCHASE & INSTALLATION.
- THE FINAL BLENDED SAND-BASED STRUCTURAL SOIL PLANTING MEDIUM SHALL CONFORM TO THE FOLLOWING GRAIN SIZE DISTRIBUTION FOR MATERIAL PASSING THE #10 SIEVE:

SIEVE NO. U.S.	%PASSING BY WEIGHT
	MIN. MAX.
10	100 ---
18	68 90
35	38 63
60	18 39
140	10 18
270	6 9
0.002MM	1 2
- MAXIMUM SIZE SHALL BE ONE INCH LARGEST DIMENSION. THE MAXIMUM RETAINED ON THE #10 SIEVE SHALL BE 15% BY WEIGHT OF THE TOTAL SAMPLE.
- THE RATIO OF THE PARTICLE SIZE FOR 70% PASSING (D70) TO THE PARTICLE SIZE FOR 20% PASSING (D20) SHALL BE 3.5 OR LESS (D70/D20 < 3.5). TESTS SHALL BE BY COMBINED HYDROMETER AND WET SIEVING IN COMPLIANCE WITH ASTM D422 AFTER DESTRUCTION OF ORGANIC MATTER BY IRRIGATION.
- ORGANIC CONTENT SHALL BE BETWEEN 2.0 AND 3.0 PERCENT. PH SHALL BE 6.0 TO 7.0.

CITY OF PORTSMOUTH TREE PLANTING REQUIREMENTS

- THE BASE OF THE CITY OF PORTSMOUTH TREE PLANTING REQUIREMENTS IS THE ANSI A300 PART 6 STANDARD PRACTICES FOR PLANTING AND TRANSPLANTING. ANSI A300 PART 6 LAYS OUT TERMS AND BASIC STANDARDS AS SET FORTH BY INDUSTRY BUT IT IS NOT THE 'END ALL' FOR THE CITY OF PORTSMOUTH. THE FOLLOWING ARE THE CITY OF PORTSMOUTH, NH TREE PLANTING REQUIREMENTS THAT IN ADDITION TO OR THAT GO BEYOND THE ANSI A300 PART 6.
- ALL PLANTING HOLES SHALL BE DUG BY HAND- NO MACHINES. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE NEW PLANTING PITS, PLANTING BEDS WITH GRANITE CURBING, AND PLANTING SITES WITH SILVA CELLS ARE BEING CREATED. IF A MACHINES USED TO DIG ANY OF THESE SITUATIONS AND PLANTING DEPTH NEEDS TO BE RAISED THE MATERIAL IN THE BOTTOM OF THE PLANTING HOLE MUST BE FIRMED WITH MACHINE TO PREVENT SINKING OF THE ROOT BALL.
 - ALL WIRE AND BURLAP SHALL BE REMOVED FROM THE ROOT BALL AND PLANTING HOLE.
 - THE ROOT BALL OF THE TREE SHALL BE WORKED SO THAT THE ROOT COLLAR OF THE TREE IS VISIBLE AND NO GIRDLING ROOTS ARE PRESENT. ROOT COLLAR WILL NEED TO BE UNEARTHED FROM THE ROOT BALL.
 - THE ROOT COLLAR OF THE TREE SHALL BE 2"-3" ABOVE GRADE OF PLANTING HOLE FOR FINISHED DEPTH.
 - ALL PLANTINGS SHALL BE BACKFILLED WITH SOIL FROM THE SITE AND AMENDED NO MORE THAN 20% WITH ORGANIC COMPOST. THE ONLY EXCEPTIONS ARE NEW CONSTRUCTION WHERE ENGINEERED SOIL IS BEING USED IN CONJUNCTION WITH SILVA CELLS AND WHERE NEW PLANTING BEDS ARE BEING CREATED.
 - ALL PLANTINGS SHALL BE BACKFILLED IN THREE LIFTS AND ALL LIFTS SHALL BE WATERED SO THE PLANTING WILL BE SET AND FREE OF AIR POCKETS- NO EXCEPTIONS.
 - AN EARTH BERM SHALL BE PLACED AROUND THE PERIMETER OF THE PLANTING HOLE EXCEPT WHERE CURBED PLANTING BEDS OR PITS ARE BEING USED.
 - 2"-3" OF MULCH SHALL BE PLACED OVER THE PLANTING AREA.
 - AT THE TIME THE PLANTING IS COMPLETE THE PLANTING SHALL RECEIVE ADDITIONAL WATER TO ENSURE COMPLETE HYDRATION OF THE ROOTS, BACKFILL MATERIAL AND MULCH LAYER.

North End Mixed Use Development

Two International Group

Russell Street & Deer Street
Portsmouth, NH



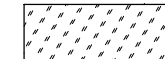
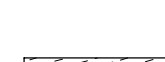

MARK	DATE	DESCRIPTION
F	11/23/2022	PB Submission
E	10/20/2022	TAC Resubmission
D	9/28/2022	Intersection Realignment
C	9/22/2022	TAC Resubmission
B	8/25/2022	TAC Resubmission
A	7/21/2022	TAC Resubmission

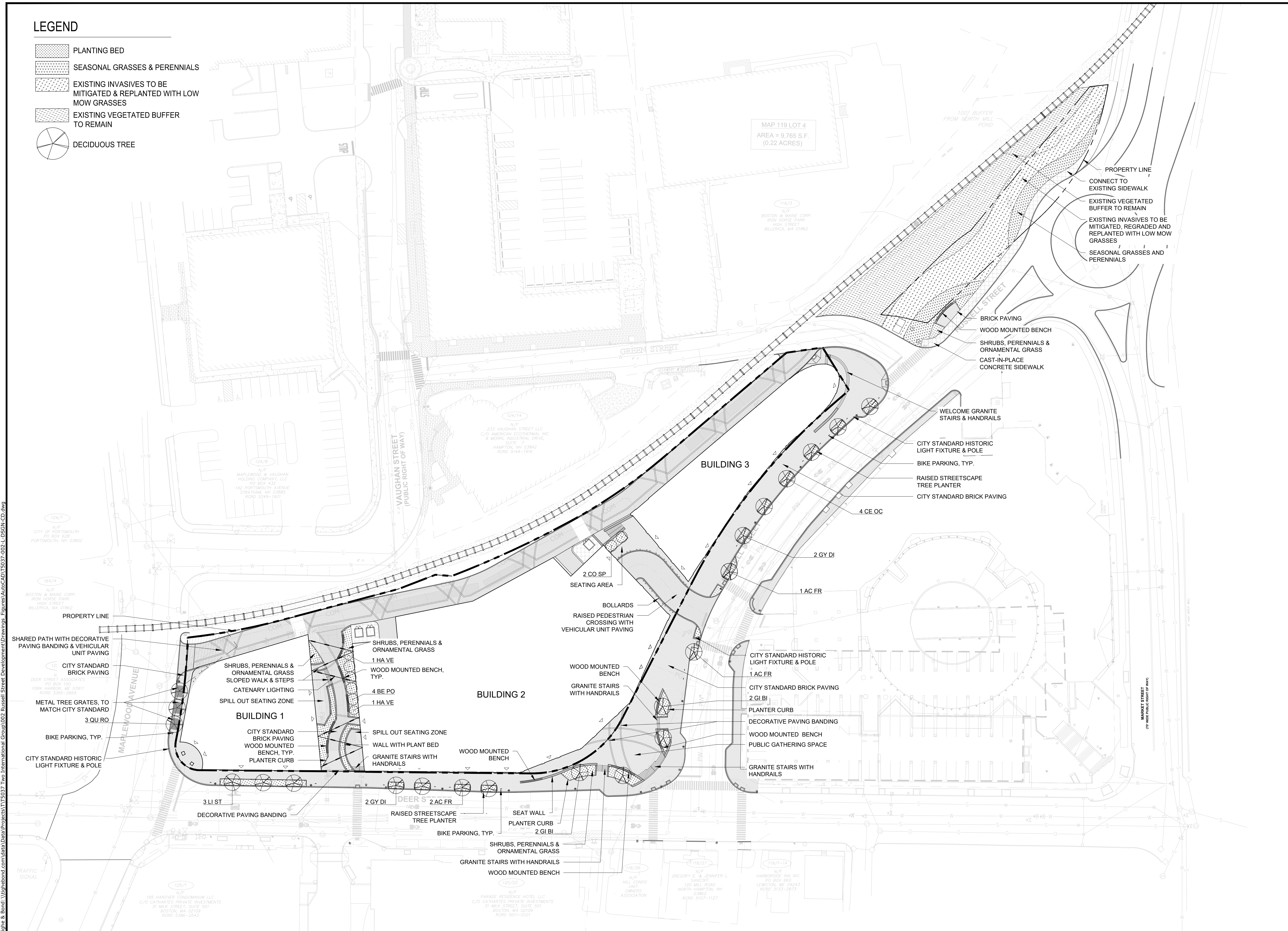
PROJECT NO:	T5037-002
DATE:	May 24, 2022
FILE:	T5037-002-L-DSGN-CD.DWG
DRAWN BY:	OS
CHECKED:	RU
APPROVED:	RU

LANDSCAPE MATERIAL PLAN, LEGEND AND NOTES

SCALE: AS SHOWN

LEGEND

-  PLANTING BED
-  SEASONAL GRASSES & PERENNIALS
-  EXISTING INVASIVES TO BE MITIGATED & REPLANTED WITH LOW MOW GRASSES
-  EXISTING VEGETATED BUFFER TO REMAIN
-  DECIDUOUS TREE



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APPROVED:	RU

LANDSCAPE SITE PLAN

SCALE: AS SHOWN

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