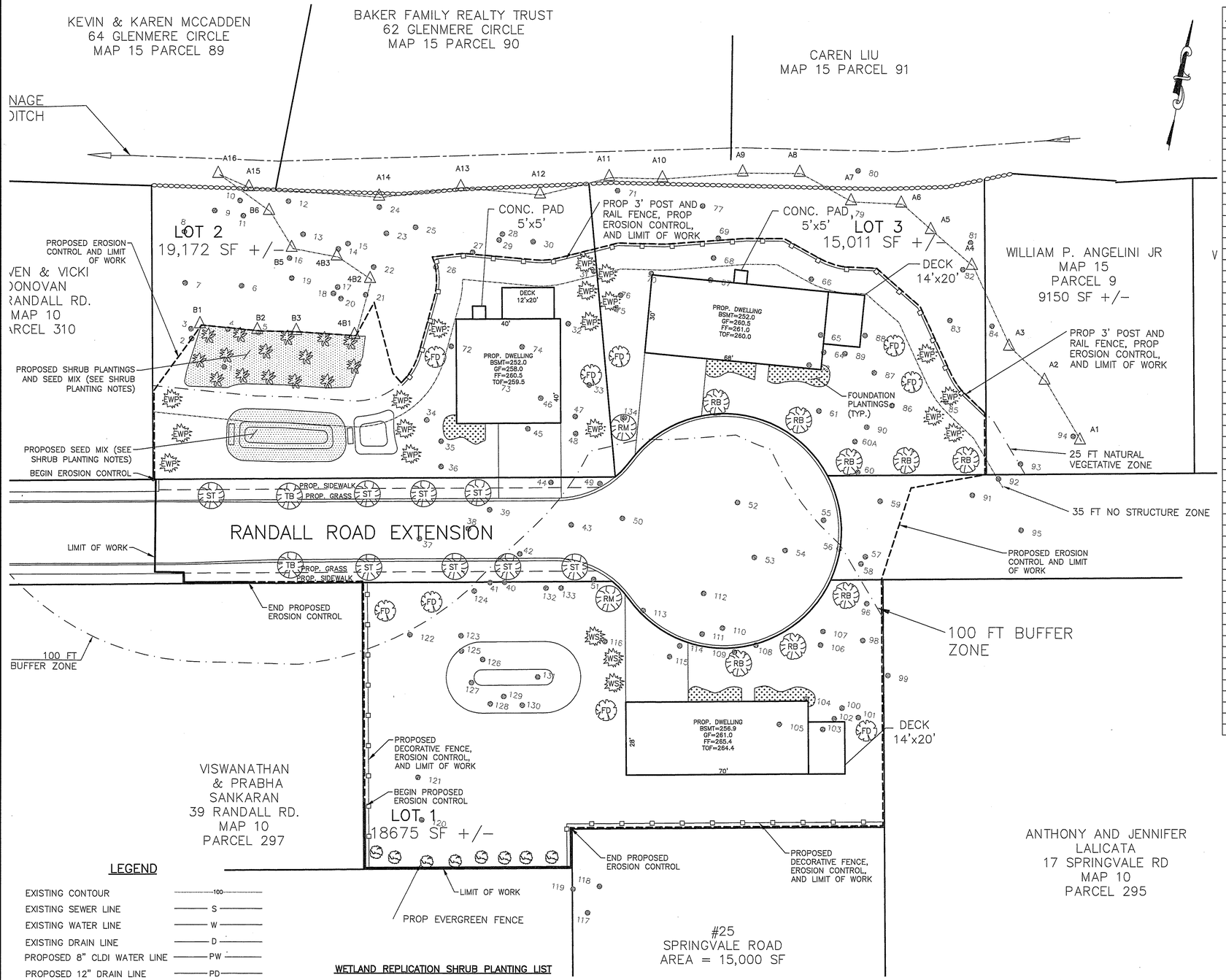

TREE #	SPECIES	DBH (IN.)	Buffer	Displace
	INSIDE BUFFER ZONE			
1	Red maple (Acer rubrum)	15	In	Yes
2	American elm (Ulmus americana)	16	In	No
3	Red maple (Acer rubrum)	36	In	No
4	Red maple (Acer rubrum)	7	In	No
5	Red maple (Acer rubrum)	8	In	No
6	Red maple (Acer rubrum)	9	In	No
7	Red maple (Acer rubrum)	13	In	No
8	Norway maple (Acer platanoides)	17	In	No
9	Red maple (Acer rubrum)	10	In	No
10	Red maple (Acer rubrum)	7	In	No
11	American elm (Ulmus americana)	8	In	No
12	Red oak (Quercus rubra)	54	In	No
13	Red maple (Acer rubrum)	24	In	No
14	Shagbark hickory (Carya ovata)	15	In	No
15	Red maple (Acer rubrum)	10	In	No
16	Red maple (Acer rubrum)	12	In	No
17	American elm (Ulmus americana)	9	In	No
18	Red maple (Acer rubrum)	14	In	No
19	Red maple (Acer rubrum)	11	In	No
20	Red maple (Acer rubrum)	6	In	No
21	Norway maple (Acer platanoides)	11	In	No
22	Red maple (Acer rubrum)	11	In	No
23	White oak (Quercus alba)	17	In	No
24	Red maple (Acer rubrum)	11	In	No
25	Red maple (Acer rubrum)	12	In	No
26	Red maple (Acer rubrum)	27	In	Yes
27	Red maple (Acer rubrum)	18	In	No
28	Red maple (Acer rubrum)	10	In	No
29	Red maple (Acer rubrum)	13	In	No
30	Red oak (Quercus rubra)	24	In	Yes
31	Norway maple (Acer platanoides)	13	In	Yes
32	Red maple (Acer rubrum)	19	In	Yes
33	Norway maple (Acer platanoides)	15	In	Yes
34	White ash (Faxinus american)	19	In	Yes
35	Red maple (Acer rubrum)	15	In	Yes
36	Norway maple (Acer platanoides)	7	In	Yes
37	Red oak (Quercus rubra)	17	In	Yes
38	American elm (Ulmus americana)	6	In	Yes
39	Norway maple (Acer platanoides)	18	In	Yes
44	Norway maple (Acer platanoides)	14	In	Yes
45	Norway maple (Acer platanoides)	19	In	Yes
46	Norway maple (Acer platanoides)	24	In	Yes
47	Norway maple (Acer platanoides)	20	In	Yes
48	Norway maple (Acer platanoides)	24	In	Yes
55	Norway maple (Acer platanoides)	17	In	Yes
57	Red maple (Acer rubrum)	15	In	Yes
58	Red maple (Acer rubrum)	18	In	Yes
59	Red maple (Acer rubrum)	17	In	Yes
60	White ash (Faxinus american)	10	In	Yes
61	Norway maple (Acer platanoides)	15	In	Yes
62	Norway maple (Acer platanoides)	28	In	Yes
63	Norway maple (Acer platanoides)	11	In	Yes
64	Norway maple (Acer platanoides)	13	In	Yes
65	Norway maple (Acer platanoides)	17	In	Yes
66	Norway maple (Acer platanoides)	31	In	Yes
67	Norway maple (Acer platanoides)	27	In	Yes
68	Norway maple (Acer platanoides)	12	In	Yes
69	Norway maple (Acer platanoides)	25	In	No
70	Red maple (Acer rubrum)	24	In	Yes
71	Red maple (Acer rubrum)	10	In	No
72	Red maple (Acer rubrum)	10	In	Yes
73	American elm (Ulmus americana)	6	In	Yes
74	American elm (Ulmus americana)	6	In	Yes

TREE #	SPECIES	DBH (IN.)	Buffer	Displace
	INSIDE BUFFER ZONE			
75	Red maple (Acer rubrum)	12	In	Yes
76	Red maple (Acer rubrum)	7	In	Yes
77	European ash (Sorbus aucuparia)	6	In	No
78	Red maple (Acer rubrum)	14	In	No
79	Norway maple (Acer platanoides)	7	In	No
81	Red oak (Quercus rubra)	13	In	No
82	Red maple (Acer rubrum)	17	In	No
83	Red maple (Acer rubrum)	22	In	No
85	Norway maple (Acer platanoides)	8	In	Yes
86	Norway maple (Acer platanoides)	10	In	Yes
87	Norway maple (Acer platanoides)	22	In	Yes
88	Norway maple (Acer platanoides)	14	In	Yes
89	Norway maple (Acer platanoides)	13	In	Yes
90	Norway maple (Acer platanoides)	12	In	Yes
134	Red maple (Acer rubrum)	17	In	Yes
	OUTSIDE BUFFER ZONE			
40	Norway maple (Acer platanoides)	26	Out	Yes
41	Norway maple (Acer platanoides)	11	Out	Yes
42	Norway maple (Acer platanoides)	15	Out	Yes
43	Norway maple (Acer platanoides)	18	Out	Yes
49	Norway maple (Acer platanoides)	14	Out	Yes
50	Norway maple (Acer platanoides)	13	Out	Yes
51	Norway maple (Acer platanoides)	15	Out	Yes
52	Norway maple (Acer platanoides)	26	Out	Yes
53	Norway maple (Acer platanoides)	14	Out	Yes
54	Norway maple (Acer platanoides)	15	Out	Yes
56	Norway maple (Acer platanoides)	12	Out	Yes
96	Red maple (Acer rubrum)	19	Out	Yes
98	White pine (Pinus strobus)	12	Out	Yes
100	White pine (Pinus strobus)	10	Out	Yes
101	Red oak (Quercus rubra)	14	Out	Yes
102	Red maple (Acer rubrum)	17	Out	Yes
103	Red maple (Acer rubrum)	13	Out	Yes
104	Red maple (Acer rubrum)	18	Out	Yes
105	Red maple (Acer rubrum)	18	Out	Yes
106	Red maple (Acer rubrum)	15	Out	Yes
107	Norway maple (Acer platanoides)	12	Out	Yes
108	Norway maple (Acer platanoides)	13	Out	Yes
109	White pine (Pinus strobus)	9	Out	Yes
110	Red maple (Acer rubrum)	16	Out	Yes
111	Red maple (Acer rubrum)	10	Out	Yes
112	American elm (Ulmus americana)	6	Out	Yes
113	Silver maple (Acer saccarinum)	18	Out	Yes
114	Red cedar (Juniperus virginianaa)	7	Out	Yes
115	Red maple (Acer rubrum)	17	Out	Yes
116	Red maple (Acer rubrum)	19	Out	Yes
117	Red maple (Acer rubrum)	13	Out	No
118	Red oak (Quercus rubra)	10	Out	No
119	Red maple (Acer rubrum)	13	Out	No
120	Blue spruce (Picea pungens)	10	Out	Yes
121	Blue spruce (Picea pungens)	7	Out	Yes
122	Sycamore (Platanus occidentalis)	21	Out	Yes
123	Red maple (Acer rubrum)	21	Out	Yes
124	Red maple (Acer rubrum)	21	Out	Yes
125	Red maple (Acer rubrum)	21	Out	Yes
126	Red maple (Acer rubrum)	11	Out	Yes
127	Red maple (Acer rubrum)	9	Out	Yes
128	Red maple (Acer rubrum)	19	Out	Yes
129	Red maple (Acer rubrum)	16	Out	Yes
130	Red maple (Acer rubrum)	18	Out	Yes
131	Red maple (Acer rubrum)	17	Out	Yes
132	Red maple (Acer rubrum)	18	Out	Yes
133	Red maple (Acer rubrum)	10	Out	Yes

NOTES

1. THERE ARE NO TREES >6" DBH WITHIN THE EXISTING PUBLIC WAY.
2. STREET TREES SHALL BE NATIVE TREES SELECTED BY THE TOWN TREE WARDEN.
3. TREE BOX TREES SHALL BE NATIVE TREES SELECTED BY THE TREE WARDEN FROM THE MANUFACTURER'S APPROVED LIST.
4. SUMMARY OF EXISTING TREES >6" DBH:

EXISTING TREES WITHIN BUFFER ZONE:	78
PROPOSED DISPLACED TREES WITHIN BUFFER ZONE:	43
EXISTING TREES OUTSIDE BUFFER ZONE:	47
PROPOSED DISPLACED TREES OUTSIDE BUFFER ZONE:	44

LEGEND

EXISTING CONTOUR	100
EXISTING SEWER LINE	S
EXISTING WATER LINE	W
EXISTING DRAIN LINE	D
PROPOSED 8" CLDI WATER LINE	PW
PROPOSED 12" DRAIN LINE	PD
PROPOSED 8 " SEWER LINE	PS
EDGE OF WETLANDS	
PROPOSED ELEC,TEL,CABLE	
LOT FRONTAGE	((100.00))
EXISTING FIRE HYDRANT	
PROPOSED FIRE HYDRANT	
INFILTRATION CHAMBER	
TREE BOX FILTER	TB
PROP. EROSION CONTROL	
PROPOSED TREE	

WETLAND REPLICATION SHRUB PLANTING LIST

SIZE	COMMON NAME	BOTANICAL NAME
3' MIN.	ARROW-WOOD	VIBURNUM DENTATUM
3' MIN.	AZALEA, SWAMP	RHODODENDRON VSCOSUM
3' MIN.	DOGWOOD, SILKY	CORNUS AMOMUM
3' MIN.	DOGWOOD, GRAYSTEM	CORNUS FOEMINA RACEMOSA
3' MIN.	WINTERBERRY, COMMON	ILEX VERTICILLATA
3' MIN.	HIGH BUSH BLUEBERRY	VACCINIUM CORMBOSUM

NOTES:

1. SHRUB PLANTINGS IN WETLAND REPLICATION AREA SHALL BE A COMBINATION OF THE SPECIES LISTED ABOVE AND MUST TOTAL 15.
2. SHRUBS SHALL BE 3-FEET IN HEIGHT OR GREATER TO MEET THE TREE EQUIVALENT RATIO OF ONE TREE TO THREE SHRUBS.
3. SHRUBS SHALL BE PLANTED 10' O.C. MINIMUM.
4. WETLAND REPLICATION AREA AND WET WATER QUALITY SWALE SHALL BE SEEDED WITH A WETLAND SEED MIX.
5. SEED MIX SHALL BE NEW ENGLAND WETMIX PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC. IN AMHERST, MA.

TREE PLANTING LIST

QTY	SIZE	SYMBOL	COMMON NAME	BOTANICAL NAME
2	2.5" CAL.	RM	RED MAPLE	ACER RUBRUM
7	2.5" CAL.	RB	RIVER BIRCH	BETULA NIGRA
9	2.5" CAL..	FD	FLOWERING DOGWOOD	CORNUS FLORIDA
2	2.5" CAL.	ERC	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA
3	5 FT HIGH	WS	WHITE SPRUCE	PICEA GLAUCA
10	5 FT HIGH	EWP	EASTERN WHITE PINE	PINUS STROBUS
2		TB	FILTERRA TREE BOX TREES SEE NOTE 4	
8		ST	STREET TREES SEE NOTE 3	

TREE REPLACEMENT WITHIN 100-FOOT BUFFER ZONE

EXISTING TREES >6" DBH TO BE REMOVED WITHIN 100-FOOT BUFFER ZONE=43.

PROPOSED NATIVE PLANTINGS WITHIN 100-FOOT BUFFER ZONE:

- 38 NATIVE TREES PROPOSED
- 15 NATIVE SHRUBS PROPOSED IN WETLAND REPLICATION AREA
- 43 TREES (OR EQUIVALENT) PROPOSED

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

JOB#373-572

SH. 1 OF 1

DATE	BY	REVISION
12/1/16	TH	ALL TREES >6" DBH SHOWN

LANDSCAPING PLAN
RANDALL ROAD EXTENSION
READING, MA 01867

COMMONWEALTH OF MASSACHUSETTS
JOHN F. QUILKIN Jr.
CIVIL
No. 31262
REGISTERED PROFESSIONAL ENGINEER

SCALE: 1"=20'

DATE: NOV. 3, 2016

Prepared For:
MG Hall Contractors
286 Park Street
North Reading, MA 01923

JM Associates
325 Main Street
N. Reading, MA 01864
978-664-6668
www.jmassociateseng.com