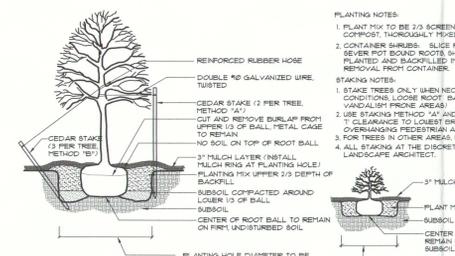
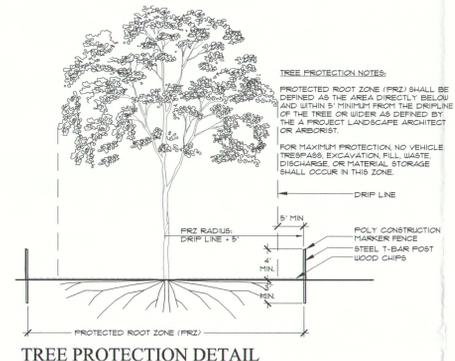


**REPLACEMENT NOTES**

**310-133 Removal of Trees**  
 C. Permitted Activities  
 (2) ...replace two trees for each tree removed...  
 D. Exceptions  
 (3) Reduction in quantity with increase in caliper size, referring to NJ No Net Loss Reforestation Act "Caliper Tree Substitution Size List" (see below).  
 E. Criteria for consideration of tree removal and replanting:  
 (2) Standards for replanted trees:  
 (a) Replanted trees must be at least 1 1/2" in diameter caliper, measured at breast height... Trees for reforestation shall be indigenous to the site from which trees have been removed...

**NJ No Net Loss Reforestation Act NISA 13:1L-14.1**  
 Per Program Guidelines, Rev. 7/2012:

Standard size tree for reforestation is 2" - 2.5" caliper.  
 Caliper Tree Substitution Size List  
 The standard size tree for reforestation purposes of an established forest is 2"-3.5" caliper. Because of plant availability, design constraints and site considerations, it may be more appropriate to plant smaller or larger sized trees. The list below shows the corresponding amount of trees needed to equal the amount of standard sized trees for replacement purposes.  
**Proposed Tree Size Standard Size Equivalent**  
 1.75" to 2" caliper .80  
 Planting 5 trees of this size will equate to 4 standard size trees  
 2.5" to 3" caliper 1.25  
 Planting 4 trees of this caliper will equate to 5 standard size trees  
 3" to 3.5" caliper 1.5  
 Planting 2 trees of this caliper will equate to 3 standard size trees  
 3.5" to 4" caliper 2 Planting 1 tree of this caliper will equate to 2 standard size trees



TREES TO BE REMOVED					
PLAN ID #	DESCRIPTION	SIZE	CONDITION	Replacement NOT required	Replacement Required
1	Tree	14	Dead	1	
2	Tree	14	Dead	1	
3	Tree	12, 12	Dead	1	
4	Maple	8	Good		1
5	Cherry	10	Good		1
6	Oak	16	Good		1
7	Oak	10	Good		1
9	Ash	8	Poor - terminal disease	1	
10	Ash	8	Poor - terminal disease	1	
11	Ash	8	Poor - terminal disease	1	
13	tree	14	Dead	1	
15	Louist	10	Good		1
16	Maple	16	Good		1
18	Oak	14, 12	Good		1
21	Maple	8	Poor - Decayed	1	
23	Hemlock	24, 28	Poor - Diseased	1	
24	Alanthus	8, 10	Good		1
25	Alanthus	8, 10	Good		1
26	Oak	12	Good		1
27	Oak	12	Good		1
28	Oak	16	Good		1
29	Elm	8	Good		1
30	Oak	10	Good		1
31	Maple	46	Good		1
32	Tree	48	Dead	1	
33	Oak	10	Good		1
34	Maple	50	Dead	1	
35	Catalpa	10	Good		1
36	Catalpa	12	Good		1
37	Cherry	8	Dead	1	
38	Maple	8, 8, 8	Dead	1	
39	Mulberry	12	Dead	1	
40	Maple	8, 12	Dead	1	
41	Oak	8	Good		1
42	Oak	12	Good		1
43	Oak	10	Good		1
44	Oak	10	Good		1
45	Oak	14	Good		1
46	Maple	8	Good		1
47	Cherry	8	Good		1
48	Beech	20	Good		1
49	Tulip	58	Good		1
50	Maple	8	Good		1
51	Oak	16	Good		1
52	Oak	8	Dead	1	
A. Total trees not requiring replacement				16	
B. Total trees requiring replacement					29
TOTAL TREES TO BE REMOVED					45

REMOVAL and REQUIREMENTS for REPLACEMENT		
29 Trees to be removed / Replace 2 trees for each removal		
TOTAL TREE REQUIRED FOR REPLACEMENT		
Size of Replacement Trees	Applicable section of Ordinance 310-133	Total Calculated Replacement Value
Trees replaced at 2.5" caliper	Replaced per 310-133 C (2)	18
Trees replaced at 3.5 to 4" caliper	1 tree equates to 2 std size trees	24
TOTAL REPLACEMENTS PROVIDED		42

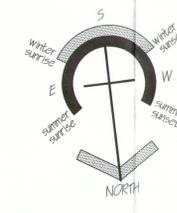
**LANDSCAPE WORK NOTES**

- Base plan information obtained from a digital file by Hubschman Engineering, transmitted on 3/12/2020.
- PURPOSE OF THIS PLAN:**
  - This plan is for layout and installation of landscape architectural features.
  - Certain design elements included in these plans require additional structural design by others. Contractor shall coordinate with general contractor/project manager to finalize these details.
  - Drainage modifications to be reviewed by project engineer.
  - Trees noted to be removed shall be approved for removal by the municipality prior to implementation.
  - Additional engineering/architectural design may be required for permit acquisition, such as site plan revision, structural design, etc.
- LOCATION OF UNDERGROUND UTILITIES:** All utilities shall be located prior to trenching, including but not limited to: gas, electric service, water, well, CATV, telephone, landscape lighting wiring, irrigation and pool lines. The contractor shall be responsible for the location of all underground utilities in his work area. Any special considerations in this matter shall be discussed prior to execution of the contract agreement with owner.
- PRESERVATION OF EXISTING TREES:** Extreme care must be taken around existing trees:
  - No machines may enter tree canopy areas.
  - No machine or vehicle parking may occur in or around tree areas.
  - No grading or storage of materials within drip line of trees scheduled to remain.
- NURSERY STOCK:** All nursery stock shall conform to AMERICAN STANDARD FOR NURSERY STOCK, by The American Nursery & Landscape Association, current edition.
- PLANT INSTALLATION:** All plants shall be installed with planting mix backfill (for large shrubs and trees) or in a prepared bedding of 4" planting mix (for small shrubs). Vegetable garden shall have a prepared bedding of 8" planting mix. Provisions for drainage in planting and turf beds shall be reviewed prior to preparation of planting beds. See planting detail.
- PLANTING MIX:** Planting mix shall be a mixture of 2/3 screened topsoil and 1/3 compost. Planting mix shall be blended thoroughly before material is moved into work area. Hand blending in individual planting pits shall not be permitted.
- COMPOST:** Compost shall be fully aged/composted and be from a source material primarily of leaves. Improperly aged/composted material can be identified by the following test: pack material in question into 16 ounce jar, add water and cap. After 24 hours, material should not emit a foul odor when jar is opened.
- TOPSOIL:** sandy loam, with 5% organic matter, free from subsoil, screened.
- MULCH:** Planting beds to be mulched with 3" depth shredded hardwood bark mulch unless otherwise noted/reproduced without written permission.
- STABILIZATION:** All disturbed areas are to be stabilized with either:
  - Woodchip mulch (perimeter areas) 50% Yorktown II turf type perennial Ryegrass 30% reliant hard Fescue
  - 20% midnight Kentucky bluegrass OR APPROVED OTHER BLEND See sod installation notes below.
  - MULCH:** Shredded hardwood bark (planting beds) Woodchip mulch (perimeter areas)
  - GRAVEL:** Decorative gravel over filter fabric.
- DEER DAMAGE:** Deer are herbivores (plant eaters), and may damage some or all of the plantings that are a part of this design plan. By release of this plan the owner accepts that no plant is deer proof and that Meumann Associates LLC shall have no liability in the event that deer damage occurs. Should deer browsing become a problem, protective measures should be employed, including fencing, repellents, dog patrols and high frequency audio emitters. The success of any planting will depend on the local deer population and weather conditions.
- BED PREPARATION:**
  - Prepare sub-grade of planting and lawn beds by stripping and removing excess existing soil to proper sub-grade.
  - In areas of new construction and excess compaction, rip and aerate base soil. Provide additional amendments, as required.
  - Review base soils with project manager, owner and landscape architect prior to proceeding with planting bed preparation.
  - Provide 6" topsoil in all lawn beds and 6" planting mix in all planting beds, per material specs above.
  - Roll topsoil in beds to provide a firm surface. In lawn areas, roll and fine grade to provide even and firm surface, prior to sodding.
- SOD INSTALLATION:**
  - In the case of a sod lawn, sod shall be southern NJ grown, sandy loam turf.
  - Sod shall be installed on the day it was cut.
  - After installation of sod, roll sod into place before watering.
  - Contractor shall be responsible for proper watering of sod until official hand-off to owner. The contractor shall be responsible to coordinate with the irrigation installer (even if a separate contractor) and ensure water is applied evenly and immediately. If the case of delay in establishing the irrigation system, the contractor shall provide temporary irrigation as required.
- USE OF PLANS:** All drawings, specifications and designs expressed herein are the sole property of Meumann Associates. They are to be used solely with respect to this project and are not to be reproduced without written permission. Copyright 2018 Meumann Associates. All rights reserved.

**PLANT LIST**

KEY	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	COMMENTS
<b>DECIDUOUS TREES</b>						
AMECA	5	AMELANCHIER CANADENSIS	SHADBLow SERVICEBERRY	Tree-Deciduous	2.5" CAL	Clump form
CARBEF	2	CARPINUS BETULUS 'FASTIGIATA'	PYRAMIDAL EUROPEAN HORNBEEAM	Tree-Deciduous	2.5" CAL	B&B
CERCAPP	3	CERCIS CANADENSIS 'FOREST PANSY'	'Forest Pansy' American Redbud (purple leaf)	Tree-Deciduous	2.5" CAL	B&B
CORRUSP	4	CORNUS 'RUTGAN', 'STELLAR PINK'	PINK RUTGERS DOGWOOD	Tree-Deciduous	2.5" CAL	B&B
FAGGR	3	FAGUS GRANDIFOLIA	AMERICAN BEECH	Tree-Deciduous	3.5 - 4" CAL	B&B
MAGVI	4	MAGNOLIA VIRGINIANA	'SWEETBAY' MAGNOLIA	Tree-Deciduous	2.5" CAL	B&B
QUEBI	3	QUERCUS BICOLOR	'SWAMP WHITE OAK'	Tree-Deciduous	3.5 - 4" CAL	B&B
ZELSEM	6	ZELKOVA SERRATA 'MUSASHINO'	COLUMNAR JAPANESE ZELKOVA	Tree-Deciduous	3.5 - 4" CAL	B&B
<b>GENERAL LANDSCAPE PLANTINGS</b>						
ILEMEBPS	24	ILEX MESERVAE 'BLUE PRINCESS'	'BLUE PRINCESS' HOLLY	Shrub-Evergreen	24-30" spr	B&B
PEREN	15	VARIOUS	ASSORTED PERENNIALS	Perennial	1 GAL	CONT
PIEJAMF	5	PIERIS JAPONICA 'MOUNTAIN FIRE'	'MOUNTAIN FIRE' PIERIS	Shrub-Evergreen	21-24" spr	fall to base
PRULAS	7	PRUNUS LAUROCECLUSUS 'SCHIPKAENSIS'	SCHIPKA LAUREL	Shrub-Evergreen	30-36" spr	CONT
VIBRHW	8	VIBURNUM RHYTIDOPHYLLOIDES 'WILLOWWOOD'	'WILLOWWOOD' VIBURNUM	Shrub-Evergreen	30-36" spr	CONT
THUPL	10	THUJA PLICATA 'GREEN GIANT'	'GREEN GIANT' WESTERN ARBORVITAE	Conifer - Evergreen	6' ht.	B&B

- NOTES:**
- Amelanchier trees shall be clump form and have a minimum sum of stem calipers of 2.5".
  - All B&B nursery stock to be supplied wrapped in natural burlap only (not synthetic).
  - Perennials to be container grown, well rooted and not pot bound.
  - Shrubs to be well branched at base and not pot bound. This shrubs for light penetration prior to planting.
  - Willowwood viburnum and native rhododendron to be well branched, well pruned and not leggy.
  - Trees to be well branched, B&B, with no weak crotches or major crossing branches.
  - Trees adjacent to pedestrian or vehicular areas to be branched above pedestrian height for safety.
  - In the event of a discrepancy between the plan and the plant list, the list shall govern.



**APPLICANT / OWNER:**  
 RIN 333, LLC  
 410 Piermont Avenue  
 Hillsdale, NJ 07642

**landscape plan**

**PROPOSED SUBDIVISION**  
 BLOCK 1308- LOTS 15 & 16  
 333 Washington Avenue  
 Hillsdale, NJ

**MEUMANN ASSOCIATES**  
 Landscape Architecture  
 3D Visualization  
 Site Design

#	date	comments	by

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 Morristown, NJ 07960  
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Mailing: 7 Ledgebrook Court  
 Morris Plains, NJ 07950  
 bradmeum@optonline.net

Approved by:

Drawn by: BAM Scale: 1"=10'  
 Date: 3/12/2020 Sheet: 1 OF 1