

SEE SITE PLAN SHEET L-103 FOR TREE ORDINANCE CALCULATIONS.

TREE ORDINANCE DATA

ONTRACTOR SHALL COORDINATE WITH INSPECTOR TO EVALUATE

(ISTING TREES & VEGETATION TO REMAIN WITHIN BUFFER ZONE WHICH

AN BE CREDITED TO MEET BUFFER PLANTING REQUIREMENTS.

DITRACTOR SHALL SUPPLEMENT TREES AND SHRUBS AS REQUIRED TO

PERIMETER TREE REQUIREMENTS: (SETBACK ALONG PUBLIC STREET):

> **REAMES ROAD** = 617 L.F. TOTAL FRONTAGE REES REQUIRED = 15 LARGE MATURING OR 21 SMALL MATURING (617 L.F. FRONTAGE) TREES PROPOSED = (21) SMALL MATURING TREES 20'-30' O.C. (LOCATED UNDER POWER LINES)

# INTERNAL PLANTING AREA REQUIREMENTS:

TOTAL SITE AREA = 14.32 ACRES (APARTMENT SITE) IMPERVIOUS SITE AREA = 343,078 S.F. = 7.88 ACRES LANDSCAPE AREA REQUIRED = 343,078 (X) 0.10 = 34,307 S.F. = .78 ACRES

#### INTERNAL TREE REQUIREMENTS

IMPERVIOUS SITE AREA = 343,078 S.F. TREES REQUIRED = 343,078/ 10,000 = 35 TREES TREE PROVIDED = 35 MIN

\*ALL REQUIRED SURFACE PARKING SPACES MUST BE WITHIN 40' OF THE TRUNK OF A TREE

#### **SCREENING REQUIREMENTS:**

SERVICE AREAS & PARKING AREAS TO BE SCREENED FROM PUBLIC VIEW WITH EVERGREEN SHRUBS 5' O.C. MAX., 2.5' MIN, HT.X 24" WIDTH MIN. AT PLANTING & 5-6' MIN. HT. WITHIN 4YRS.

## **MULTI-FAMILY BUFFER REQUIREMENTS:**

#### CLASS 'B' BUFFER (37.5' WIDE)

37.5' BUFFER REQUIRED = (7 TREES 3" CAL. & 40 SHRUBS 30" HT. / 100 L.F.)

1000 L.F. X 7 TREES /100 L.F. = 70 TREES REQUIRED = 70 PROVIDED (68% LARGE MAT./ 71% EVERGREEN) TREES PROPOSED 20 - LARGE MAT. DECIDUOUS 28 - LARGE MAT EVERGEEN 22 - SMALL MAT. EVERGREEN

\*(40% LARGE MATURING (MIN.) / 25% EVERGREEN (MIN.) 1000 L.F. X 40 SHRUBS / 100 L.F. = 400 SHRUBS

SHRUBS PROPOSED = 400 PROVIDED 400 - EVERGREEN SHRUBS 2.5' HT./ 24" WIDTH = 100 % EVERGREEN

#### CLASS 'C' BUFFER (50' WIDE)

50' BUFFER REQUIRED = (9 TREES 3" CAL. & 20 SHRUBS 30" HT. / 100 L.F.)

545 L.F. X 9 TREES /100L.F. = 49 TREES REQUIRED = 49 PROVIDED (80% LARGE MAT./ 51% EVERGREEN) TREES PROPOSED 24 - LARGE MAT. DECIDUOUS 15 - LARGE MAT. EVERGREEN 0 - SMALL MAT. EVERGREEN

\*(40% LARGE MATURING (MIN.) / 25% EVERGREEN (MIN.) 545 L.F. X20 SHRUBS / 100 L.F. = 109 SHRUBS SHRUBS PROPOSED =  $\frac{109}{24}$  PROVIDED 109 - EVERGREEN SHRUBS( 2.5' HT./  $\frac{24}{24}$  WIDTH) = 100 % EVERGREEN

### CLASS 'B' BUFFER (20' WIDE)

20' BUFFER REQUIRED = (6 TREES 3" CAL. & 40 SHRUBS 30" HT. / 100 L.F.)

900 L.F. X 6 TREES /100L.F. =54 TREES REQUIRED = <u>54</u> PROVIDED (100% LARGE MAT./ 66% EVERGREEN) 18 - LARGE MAT. DECIDUOUS

36 - LARGE MAT. EVERGREEN \*(40% LARGE MATURING (MIN.) / 25% EVERGREEN (MIN.)

900 L F X40 SHRUBS / 100 L F = 360 SHRUBS

SHRUBS PROPOSED 360 - EVERGREEN SHRUBS( 2.5' HT./ 24" WIDTH) = 100 % EVERGREEN

## Charlotte Urban Forestry - Tree Planting and Preservation Requirements (updated 10/10/16)

## 1. Minimum tree size at planting is 2" caliper and 8' tall for single-stem trees. All multi-stem plants must be tree form, maximum 3 to 5 trunks, and minimum 10' tall.

las noted.

/ SIGHT TRIANGLE

Where 3" single-stem caliper trees are specified/required the minimum height shall be 10' tall, if multi-stem trees are specified then they shall be a minimum of 12' tall. 2. All new trees must have straight trunks with strong central leaders intact to the top of the crown unless multi-stem trees are specified. All required trees shall be typical of their species and variety, have normal growth habits, have well-developed branches, be vigorous and have fibrous root systems. Trees with major girdling roots will NOT be accepted. Trees with co-dominant branching will NOT be accepted. Trees that have been sheared, topped or cut back to multiply the branching structure will NOT be accepted. Trees shall be free of abrasions, damage, disease, pests and cracks. All pruning cuts greater than ½ inch diameter shall have callus tissue formed prior to planting. No pruning cut on the trunk shall be more than one-half the diameter of the central leader at the height where the cut was made. Root flares shall be located at grade. Trees with more than 2" of soil covering the root ball/flare from will NOT be accepted (CLDS.40.09).

3. Size of required plants, spread of roots and size of balls shall be in accordance with ANSI Z60.1 (latest edition) as published by the American Nursery & Landscape Association, except where specified/authorized by Urban Forestry.

4. All required trees of a particular species and variety shall be uniform in size and configuration.

Perimeter trees in urban zones shall be 3" in caliper and be free of branches up to 6' from the top of root crown (ball).

6. A minimum of 50% of new trees must be native species, and sites with more than 20 trees required will have to install multiple (3 or more) species pursuant to the

7. 75% of required trees must be large mature species except in situations with overhead power line conflicts.

## 8. See CLDS 40.01 & 40.09 (on plan) for detailed tree planting requirements.

- Plastic hose parts will NOT be accepted for tree staking. See CLDS 40.01 for approved staking method/materials.
- 10. All strapping, and top 1/3 of wire basket and burlap must be cut away and removed from root ball when planting. 11. For new planting areas, remove all pavement, gravel sub-base and construction debris; remove compacted soil and add 18" new topsoil, or till and amend the top
- 18" of existing soil to meet topsoil/planting mix standards for trees (within entire minimum area of 274 square feet). 12. Trees planted on public property will need approval from the City Arborist and/or NCDOT.
- 13. Review soil requirements in the Tree Ordinance Guidelines at: http://charlottenc.gov/ld then click *Trees*.

14. If any utility is being installed in or near any required tree(s) or Tree Save Area(s), call Urban Forestry Specialist to resolve PRIOR to utility installation.

- If trees conflict with any utilities or signs; call Urban Forester to resolve **BEFORE** planting.
- Adjust tree planting locations to avoid existing underground utilities. Plant 15' from all underground utilities. 18. No light poles, utilities or transformers can be installed in tree islands.
- 19. Commercial scale lighting (> 15' in height) must be a minimum distance of 30' from a tree. Pedestrian scale lighting (≤ 15' in height) must be a minimum distance of 15' from a tree. Show site lighting on landscape plan.

- 20. Tree protection must be installed and verified by Urban Forestry prior to starting **ANY** construction activity.
- 21. Show tree protection and trees save areas on erosion control, grading and landscape plan sheets.
- 23. Tree Save Areas shall be free of invasive plant species. If an area proposed for tree save contains invasive plant species at time of proposal, such invasive plant
- species shall be removed prior to final CO.
- 24. The area of any easements (water, sewer, utility, etc.) can NOT be counted toward the tree save requirement.
- 25. Any alterations to tree save areas must be accomplished without mechanized equipment.
- 26. No structure will be allowed within 10' of tree save areas unless approved by Urban Forestry. 27. All trees on public property are protected and removal must be permitted by the city arborist (704)336-4262.
- 28. Contact Urban Forestry Specialist PRIOR to any crane set-up, machinery operation or temporary building erection that may impact Charlotte Tree Ordinance protected trees or tree save areas, including trees located in street right of way. Impacts may include but are not limited to: encroaching within tree drip-lines,

29. Submit required CO/hold release form at http://charlottenc.gov/ld for an inspection of tree protection/planting areas, a minimum of 5 days before the CO/hold

30. Visit City of Charlotte's Land Development website for additional information and urban forestry requirements: http://charlottenc.gov/ld then click Trees.

# TREE PLANTING NOTES:

LEGEND

— UT — EXISTING UNDERGROUND TELEPHONE

----- EXISTING OVERHEAD ELECTRIC LINE \_\_\_\_W \_\_\_ EXISTING AND PROPOSED WATER LINE

ACCESSIBLE PARKING SPACE

PROPOSED BICYCLE PARKING

PROPOSED AC CONDENSER

PROPOSED RETAINING WALL

PRELIMINARY PLANNED

MULTI-FAMILY SUBDIVISION

**APPROVAL** CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT

By Brent Wilkinson 11/20/17

PROPOSED SANITARY SEWER

PROPOSED STORM DRAIN

PROPOSED TREE SAVE AREA

PROPOSED PCCO NATURAL AREA

PROPOSED PEDESTRIAN FIXTURE (12' HEIGHT

PROPOSED STREET LIGHT (21' HEIGHT MAX)

----- EXISTING STORM DRAIN

——— EXISTING SANITARY SEWER

— — SETBACK OR BUFFER LINE — — TREE PROTECTION AREA

- AREA OF INTERSECTION SIGHT DISTANCE TO BE KEPT CLEAR. TREES TO BE PLANTED MIN. OF 24" OUTSIDE OF SIGHT DISTANCE AND MAINTAIN 7'-2" MINIMUM VERTICAL HEIGHT
- CLEARANCE. 2. ALL PLANTING WILL BE PERFORMED OFF NCDOT R/W.
- BEFORE ANY PLANTING IS PERFORNED WITHIN NCDOT R/W AN APPROVED PLANTING PERMIT WILL BE REQUIRED. 4. NO TREE SHALL BE PLANTED ON A SLOPE GREATER THAN 3:1

SCALE: 1"=60'

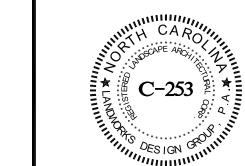
1 8/21/17 LDG 1ST REVIEW COMMENTS

2 10/11/17 LDG 2ND REVIEW COMMENTS

Description

**REVISIONS:** 

No. Date





CODE

**REQUIRED** 

**PLANTING** 

PLAN

CORPORATE CERTIFICATIONS SC ENG: NO. 3599 SC LA: NO. 211

Project Manager: Drawn By:

Checked By:

6/15/2017 Date:

Project Number:

Sheet Number:

SHEET # 170F 49

12' WIDE MAINTENANCE

WITH NATIVE DRY SEED

MEADOW MIX

6960 SF-

ACCESS WITHIN ZONE 6. SEED

## BMP WET POND PLANTING NOTES

- 1. TREES OR SHRUBS SHALL NOT BE PLANTED ON DAM EMBANKMENT SIDES OR TOP.
- 2. MULCH SHALL <u>NOT</u> BE APPLIED IN ZONES 1, 2, AND 3.
- 3. NATIVE DRY MEADOW SEED MIX = "RIPARIAN AND UPLAND MIX" PER APPENDIX C, CHARLOTTE-MECKLENBURG BMP DESIGN MANUAL."
- 4. NATIVE WET MEADOW SEED MIX = "FACW MEADOW MIX" PER APPENDIX C, CHARLOTTE-MECKLENBURG BMP DESIGN MANUAL."
- 5. MULCH EACH TREE AND SHRUB IN ZONE 4 WITH 3" DEPTH OF DOUBLE HAMMERED HARDWOOD BARK (18" DIA. @ EACH SHRUB AND TREE)." AFTER TREES, SHRUBS, AND MULCH ARE INSTALLED, SEED ENTIRE ZONE 4 WITH FACW MIX AND COVER WITH EROSION MAT: SC150 STRAW / COCONUT BLANKET BY NORTH AMERICAN GREEN (OR APPROVED EQUAL). CUT OUT OPENING IN EROSION MAT AT EACH MULCHED TREE OR SHRUB.
- 6. MULCH SEEDED AREAS WITH APPROVED HYDROSEED MULCH.
- 7. PLANTING SEASON: CONFORM TO SEASONAL PLATNING GUIDELINES PER CHARLOTTE-MECKLENBURG BMP DESIGN MANUAL, SECTION 6.3.4. WHEN PLANTING MUST BE DELAYED DUE TO SEASON, INSTALL TEMPORARY SEEDING OF DENUDED AREAS AND MAINTAIN UNTIL PROPER PLANTING SEASON.
- 8. CONTRACTOR SHALL PROVIDE MAINTENANCE OF ALL BMP PLANTINGS FOR 12 MONTHS AFTER INITIAL ACCEPTANCE OF INSTALLATION, INCLUDING RE-SEEDING OF BARE AREAS AFTER INITIAL INSTALLATION AS REQUIRED TO ESTABLISH PERMANENT GROUND COVER OF SEEDED AREAS, AND SUPPLEMENTAL WATERING AS REQUIRED TO ESTABLISH PLANTINGS.
- 9. GOOSE EXCLUSION FENCING SHALL BE INSTALLED BY THE CONTRACTOR ON BOTH SIDES OF THE PLANTING. SHELVES FOR ZONES 2 & ZONE 3 BETWEEN 24" & 42" OF HEIGHT PER CM BMP DESIGN MANUAL 6.3.3.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPLACEMENT OF PLANT MATERIAL EATEN BY GOOD UNTIL SUCCESSFUL ESTABLISHMENT OF VEGETATION.
- 11. MONITORING AND REMOVAL OF INVASIVE SPECIES (INCLUDING CATTAILS) SHALL BE INCLUDED IN REQUIRED MAINTENANCE.
- 12. EACH ZONE IS TO BE PLANTED WITH MULTIPLE SPECIES OF PLANTS IF MORE THAN ONE SPECIES IS LISTED IN THE PLANT LIST.

SDRMF-2017-00057

By mark chapman at 4:45 pm, Nov 17, 2017

**APPROVED** 

13. SEE SHEETS L-204 & L-205 FOR WET POND PLAN



ZONE 2

0.5-1' BELOW PWE

ZONE 3

±788.0-788.5

±788.5-789.5

±4824SF

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<del>,⊂</del>√EMÆRGENØY×

x YAWLLWAY ×

±2272SF

SHALLOW WATER BENCH

SHORELINE FRINGE PLANTING AF

0.5 ABOVE & 0.5 BELOW PWE

ZONE 5B

**ZONE 4B** 

(EMBANKMENT)

±789.5-790.5

±1783 SF----

FOREBAY

FLOODPLAIN TERRACE/UPLAND DAM

BANK 2YR STORM TO 10 YR STORM ±790.5-791.7

RIPERIAN FRIGE 0.5' ABOVE TO 2YR STORM

PROPOSED

FOUNTAIN (TYP.)-

WET POND BMP PLANTING

SPRAY

(EMBANKMENT)

±1374SF

ZONE 6

±7712SF

789 = PERMANENT

WATER ELEVATION-

¬PROPERTY LINE (スアヤ͡P.)-

UPLAND SLOPES >±791.7

**FINAL APPROVAL** 

**ENGINEERING** PCO / DETENTION / DRAINAGE PLAN

**EROSION CONTROL** 

**URBAN FORESTRY** TREE ORDINANCE

**CDOT** 

NOTE: SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 48 HRS. PRIOR TO ANY LAND DISTURBING ACTIVITY USING THE ONLINE FORM AT http://development.charmeck.org

> NON-EMBANKMENT) FLOODPLAIN TERRACE/UPLAND DAM BANK 2YR STORM TO 10 YR STORM ±790.5-791.7

ZONE 4A

ZONE 5A

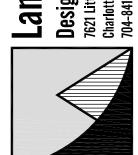
(NON-EMBANKMENT) RIPERIAN FRIGE 0.5' ABOVE TO 2YR STORM ±789.5-790.5 ±2048SF

SCALE: 1"=40'

ZONE 2

ZONE 6

**REVISIONS:** No. Date 1 8/21/17 LDG 1ST REVIEW COMMENTS 2 10/11/17 LDG 2ND REVIEW COMMENTS Landworks
Design Group, P.A.
7621 Little Avenue, Suite 111
Charlotte, NC 28226
704-841-1604



JOKLINE ESIDENTIAL, REAMES R

**WET POND PLANTING** PLAN





Project Manager:

LHC Drawn By:

Checked By:

6/15/2017

Project Number:

Sheet Number:

L-110

SHEET # 190F 49

LEGEND

ZONE 3

**ZONE 5A** 

POST CONSTRUCTION

**ZONE 4A** ZONE 4B

ZONE 5B

— — — PROPOSED STORM DRAIN