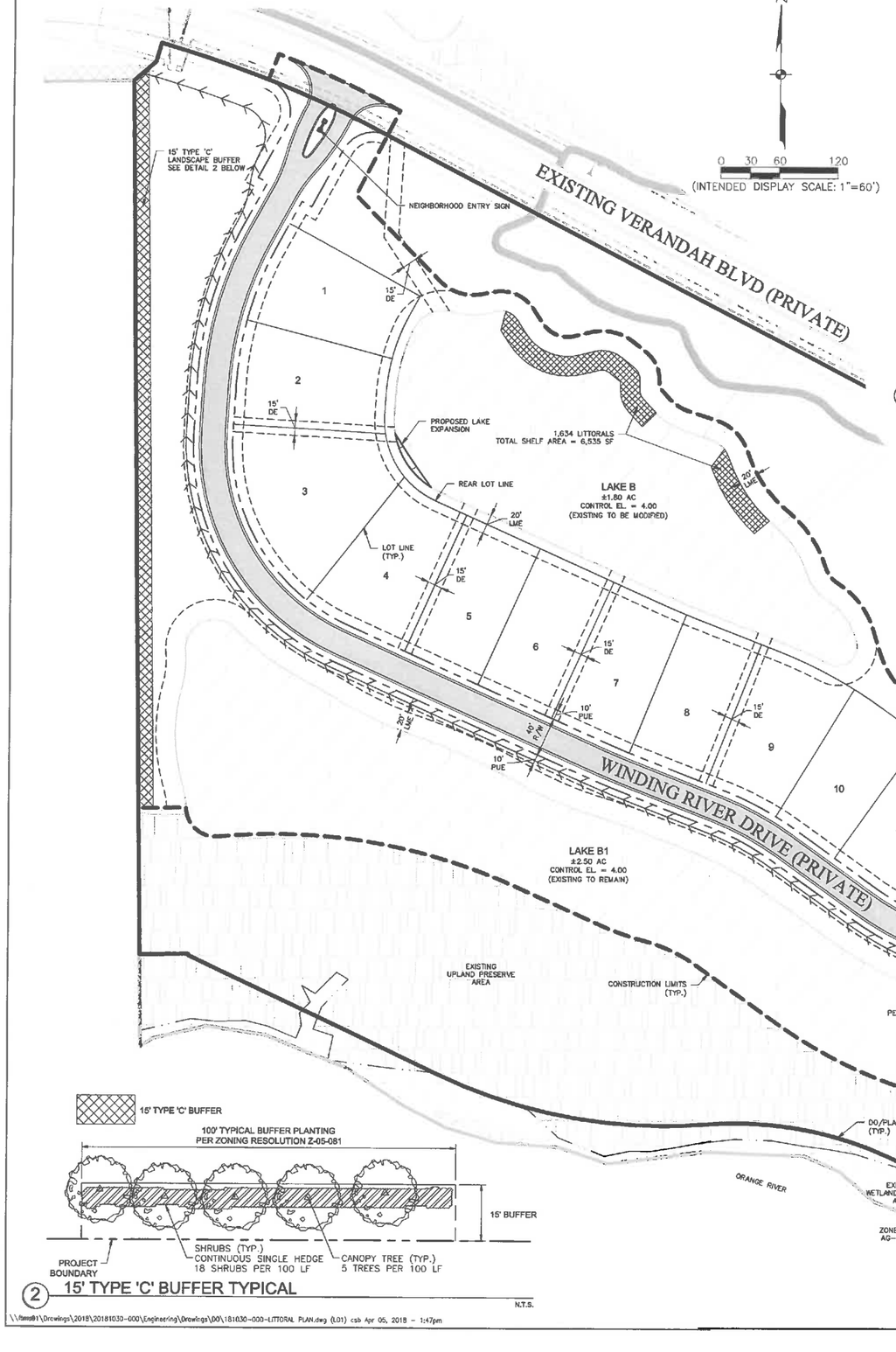
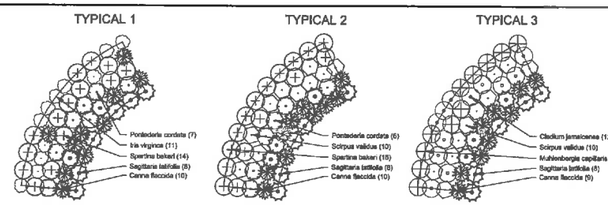
ADD2018-00062 Lee County ePlan

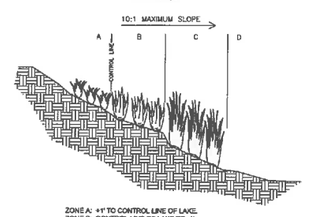




TYPICAL 100 SF LITTORAL ZONE PLANTING
N.T.S.

ACCEPTABLE LITTORAL ZONE PLANT LIST

SCIENTIFIC NAME	COMMON NAME	SIZE/HEIGHT	ZONE
Spartina bakeri	CORD GRASS	2" LINERS / 12"	A
Scirpus validus	SOFT-STEM BULRUSH	2" LINERS / 12"	A
Acrostichum danaeifolium	LEATHER FERN	2" LINERS / 12"	A
Muhlenbergia capillaris	MUHLY GRASS	2" LINERS / 12"	A
Juncus effusus	SOFT RUSH	2" LINERS / 12"	A,B
Iris virginica	BLUE FLAG IRIS	2" LINERS / 12"	A,B
Canna flaccida	GOLDEN CANNA	2" LINERS / 12"	A,B
Cladium jamaicense	SAW GRASS	2" LINERS / 12"	B
Sagittaria latifolia	ARROWHEAD	2" LINERS / 12"	B
Pontederia cordata	PICKEREL WEED	2" LINERS / 12"	B,D
Bacopa spp.	SPIKE RUSH	2" LINERS / 12"	C
Nymphaea odorata	FRAGRANT WATER LILY	1 GALLON POT	C,D



TYPICAL LITTORAL SHELF SECTION
N.T.S.

1 TYPICAL LITTORAL ZONE PLANTINGS

LITTORAL PLANTING REQUIREMENT

LAKE PERIMETER (LAKE B)	= 1,307 LF
TOTAL LAKE PERIMETER	= 1,307 LF
LITTORALS REQUIRED (1,307 LF x .25) x 20 / 4	= 1,634 PLANTS
LITTORALS PROVIDED	= 1,634 PLANTS

LITTORAL ZONE PLANTS

CONTRACTOR TO PLANT LITTORAL SHELF WITH SPECIES AND QUANTITIES CONSISTENT WITH PROVIDED 100 SF LITTORAL ZONE PLANTING: TYPICAL 1, TYPICAL 2, OR TYPICAL 3. USE TYPICAL LITTORAL SHELF SECTION TO DETERMINE WHICH PLANT TO INSTALL AT EACH ELEVATION OF THE LITTORAL SHELF.

LAKE B
(1,307 LF x .25) x 20 / 4 = 1,634 PLANTS
SHELF AREA: 6,535 SF

NOTES:

1. THE MINIMUM REQUIRED NUMBER OF NATIVE WETLAND HERBACEOUS PLANTS IS BASED ON A TWO FOOT SPACING; OR 4 SF PER PLANT IN A 20 FOOT WIDE LITTORAL SHELF. SHELF LENGTH TO BE EQUAL TO 25% OF THE LENGTH OF THE LAKE PERIMETER. SEE LEE COUNTY ORDINANCE 10-418.
2. CLUSTERS MUST CONTAIN A MINIMUM OF 25 PLANTS WITHIN A 50-SQUARE-FOOT AREA.
3. AT LEAST FOUR SPECIES PER SHELF FROM LITTORAL ZONE PLANTING TYPICALS PROVIDED MUST BE PLANTED.
4. MINIMUM REQUIRED HERBACEOUS PLANT SIZE IS A TWO-INCH CONTAINER, REFERRED TO AS A LINER.
5. 100 SF LITTORAL ZONE PLANTING TYPICALS ARE FOR DESIGN INTENT ONLY
6. FINAL PLANTING LOCATIONS TO BE DELINEATED BY LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.
7. PLANT SELECTION IS SUBJECT TO AVAILABILITY.

REQUIRED DEVELOPMENT CALCULATIONS

LANDSCAPE BUFFER REQUIREMENT

WESTERN PROPERTY LINE - TYPE 'C' BUFFER (15' WIDE)
5 TREES, A CONTINUOUS SINGLE HEDGE ROW PER 100 LF

745 LF @ 5 TREES & 18 SHRUBS PER 100 LF = 38 TREES REQUIRED
= 134 SHRUBS REQUIRED

1. ALL REQUIRED PLANT MATERIALS SHALL BE SELECTED FROM PLANT LIST ON SHEET L02. TOTAL QUANTITIES OF PLANT MATERIALS SHALL MEET OR EXCEED MINIMUM COUNTY REQUIREMENTS.
2. REQUIRED BUFFER LANDSCAPING MUST BE 100% NATIVE. ALL REQUIRED TREES SHALL BE A MINIMUM OF 10' HEIGHT AND 2" CALIPER. ANY PALM TREES SHALL HAVE 10' CLEAR TRUNK MINIMUM. ALL REQUIRED SHRUBS SHALL BE A MINIMUM 3-GALLON CONTAINER SIZE, 24" HEIGHT AT INSTALLATION AND SHALL BE MAINTAINED AT A MINIMUM HEIGHT OF 36".

GENERAL LANDSCAPE REQUIREMENT

ONE (1) TREE MUST BE PLANTED FOR EACH THREE THOUSAND (3,000) SF OF GROSS LAND USE.
780,585 SF / 3,000 SF = 261 TREES REQUIRED
GENERAL TREES TO BE PROVIDED THROUGH PRESERVE, PER LCLDC 10-420(j)(2): EACH EXISTING INDIGENOUS NATIVE TREE PRESERVED IN PLACE, WHICH HAS A TRUNK DIAMETER OF FOUR INCHES OR GREATER MEASURE AT FOUR AND ONE HALF FEET ABOVE THE GROUND (DBH) WILL RECEIVE A CREDIT OF FIVE TREES AGAINST THE GENERAL TREE REQUIREMENTS. NATIVE PALMS PRESERVED IN PLACE THAT ARE EIGHT FEET OR GREATER FROM GROUND LEVEL TO BASE OF FRONDS, WILL RECEIVE A CREDIT OF THREE TREES. EXISTING SABAL PALMS, IDENTIFIED ON THE DEVELOPMENT ORDER PLANS THAT ARE RELOCATED ONSITE WILL BE GIVEN A TWO-TREE CREDIT. CREDITS FOR EXISTING TREES MAY NOT BE USED FOR CREDIT PROVIDED THEY OCCUR WITHIN THE REQUIRED 100-FOOT BUFFER SEGMENT.
CREDITS WILL APPLY ONLY WHEN THE TREES ARE LABELED AS PROTECTED-CREDIT TREES. IF THE PROTECTED-CREDIT TREES DIE WITHIN THREE YEARS FROM THE DEVELOPMENT ORDER CERTIFICATE OF COMPLIANCE, THEY MUST BE REPLACED BY THE NUMBER OF CREDIT TREES TAKEN. SEE SHEET T01 FOR PROTECTED CREDIT TREE LOCATIONS, CALIPER, AND SPECIES INFORMATION.

OAKS WILL BE RELOCATED ALONG VERANDAH BLVD. AND SABAL PALMS WILL BE RELOCATED INTO THEIR PERMANENT LOCATION NEAR THE FPL POWER LINES AND WILL BE CLUSTERED AT 10'-20' ON CENTER SPACINGS PER ADD 2008-00026. ALL SABAL PALMS SHALL BE RELOCATED IN ACCORDANCE WITH SECTION 10-415(b)(2) OF THE LEE COUNTY LAND DEVELOPMENT CODE.

ALL NATIVE CANOPY TREES ON-SITE WILL BE RELOCATED PRIOR TO FILLING ON SITE AND PLANTED ALONG VERANDAH BOULEVARD. THESE TREES SHALL BE RELOCATED UTILIZING A TREE SPADE OF THE APPROPRIATE SIZE. TREES SHALL BE PROPERLY RE-LOCATED PRIOR TO FILLING. FILL SHALL NOT BE PLACED AND GRADED AROUND THE EXISTING NATIVE CANOPY TREES THAT ARE PART OF THE PRESERVE AREA. A TREE INVENTORY WILL BE COMPLETED AND SUBMITTED TO STAFF PRIOR TO THE RELOCATION OF THE TREES. RELOCATED TREES THAT DO NOT SURVIVE SHALL BE REPLACED PER CALIPER INCH AND SHALL BE REPLACED WITH NATIVE CANOPY TREES AT 10' HEIGHT, 4' SPREAD, AND 2" CALIPER.

GENERAL LANDSCAPE REQUIREMENTS SHALL COMPLY WITH 10-416 AND 10-420 OF THE LEE COUNTY LAND DEVELOPMENT CODE.

5:1 CANOPY CREDIT
45 EXISTING CANOPY TREES x 5 CREDITS = 225 GENERAL TREES

3:1 PALM CREDIT
12 EXISTING PALMS x 3 CREDITS = 36 GENERAL TREES

2 15' TYPE 'C' BUFFER TYPICAL
N.T.S.

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E.B. #642 & L.B. #642
JEFFREY MAGE, PLA
FL License No. LA#6667059

Verandah™

WINDING RIVER
LEE COUNTY, FLORIDA

REVISIONS

NO.	DESCRIPTION	DATE

DATE:	APRIL 2018
PROJECT NO.	20181030-000
FILE NO.	36-43-25
SCALE:	As Shown

LITTORAL PLAN

SHEET NUMBER
L01

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