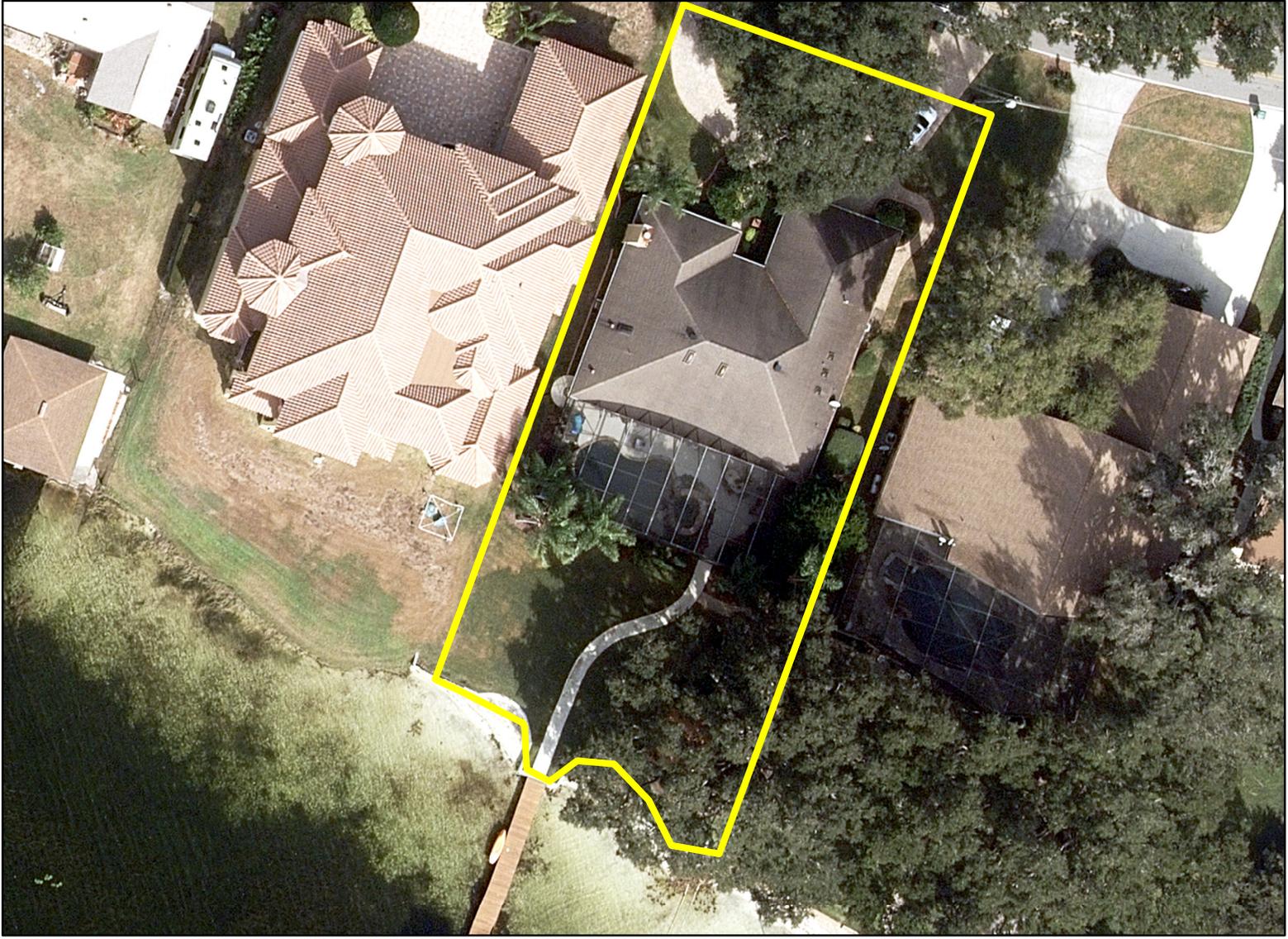


Application for Shoreline Alteration Dredge and Fill



Shoreline Alteration Dredge and Fill

SADF-25-08-024

District #2

Applicant:

Simon Living Trust

Address:

7012 Lake Ola Drive
Mount Dora, FL 32757

Parcel ID:

08-20-27-4706-00-040

Project Site 

Property Location 





GENERAL NOTES:

1. DESIGN CRITERIA:

APPLICABLE CODES, REGULATIONS & STANDARDS:

- 1. THE 2023 FLORIDA BUILDING CODE, 8TH EDITION.
- 2. ASCE/ SEI 7-22 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- 3. ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- 4. NDS 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD

WIND LOADS:

- 1. RISK CATEGORY = I
- 2. BASIC WIND SPEED = 120 MPH
- 3. EXPOSURE CATEGORY = C

SOIL LOADS (2023 FBC, TABLE 1610.1):

BASED ON SW UNIFIED SOIL CLASSIFICATION

- 1. ANGLE OF INTERNAL FRICTION = 38 DEG
- 2. COEFFICIENT OF FRICTION BETWEEN CONCRETE AND SOIL = 0.25
- 3. UNIT WEIGHT OF SOIL UNDER SITE CONDITIONS = 116 PCF
- 4. SATURATED UNIT WEIGHT OF SOIL = 135 PCF

FLOOD LOADS (2023 FBC, TABLE 1612.1):

- 1. BASE FLOOD ELEVATION = 73.5 FT
- 2. ELEVATION (AS PER SURVEY PROVIDED BY CLIENT)= 74.28 FT (AT TOP OF THE SEAWALL).

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE APPROVED TURBIDITY SCREENS IN PLACE DURING ANY AND ALL CLEARING EXCAVATING AND JETTING AND BACK FILLING OPERATIONS WHICH TOTALLY ENCLOSES THE CONSTRUCTION SITE. SCREENS ARE TO REMAIN IN PLACE 24 HOURS MINIMUM AFTER CONSTRUCTION DEASES OR UNTIL TURBIDITY LEVEL IS 20 OR LESS NTU ABOVE THE PRE-CONSTRUCTION TURBIDITY LEVEL. SCREENS MUST EXTEND FROM THE WATER SURFACES TO THE BOTTOM AND BE ADEQUATELY WEIGHTED TO KEEP THEM IN PLACE DURING ALL OPERATIONS. THERE SHALL BE ADEQUATE FLOTATION AT THE SURFACE TO PREVENT OVERFLOW. THIS FLOTATION MUST BE BRIGHTLY COLORED TO MAXIMIZE VISIBILITY.
- 2. PLANTING SPECIFICATIONS SHALL COMPLY WITH ORANGE COUNTY, FLORIDA CODE OF ORDINANCES, SECTION 30-310, AS SHOWN ON SHEET 03.

SCOPE OF WORK -

- 1. SEAWALL ENGINEERING

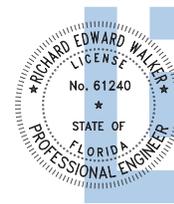
NOT IN FE LLC SCOPE OF WORK -

- 1. DESIGN & ANALYSIS OF WOODEN STEPS ATTACHED TO SEAWALL

SEAWALL SPECIFICATIONS:

- 1. THESE SPECIFICATIONS SHOW MINIMUM REQUIREMENTS FOR SEAWALLS WHICH ARE TO BE CONSTRUCTED. INDIVIDUAL SEAWALL DESIGN IS THE RESPONSIBILITY OF THE INDIVIDUAL PERMITTEE BASED ON SPECIFIC SITE CONDITIONS TYPE OF SEAWALL METHOD OF CONSTRUCTION AND ALL OTHER FACTORS AFFECTING THE FUTURE STABILITY OF THE WALL. THESE SPECIFICATIONS ARE MINIMUM REQUIREMENTS ONLY AND ARE NOT INTENDED TO BE A FINAL SEAWALL DESIGN RELATING TO A SPECIFIC SITE ON ANY OTHER AFFECTING CONDITIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKES UNTIL THE SEAWALL IS INSTALLED AND APPROVED.
- 3. CONSTRUCTION IS TO CONFORM TO CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FDOT SPECS APPLY WHERE REFERENCE IS MADE TO A SPECIFIC SECTION.
- 4. CONCRETE IS TO HAVE A MINIMUM CYLINDER STRENGTH OF 3000 PSI AT 28 DAYS AND COMPLY WITH SECTION 345 FDOT SPECS
- 5. REINFORCING STEEL SHALL BE GRADE 40 AND SHALL BE PLACED IN ACCORDANCE WITH FDOT SPECS SECTION 425
- 6. ALL EXPOSED SURFACES SHALL HAVE A CLASS 3 FINISH IN ACCORDANCE WITH FDOT SPECS SECTION 400-15 ALL UNEXPOSED SURFACES ARE TO BE FREE OF HONEYCOMBING AND MAJOR IMPERFECTIONS.
- 7. BACK FILL IS TO BE COMPACTED TO A STABLE DENSITY SUCH THAT NO APPRECIABLE SETTLEMENT OCCURS AFTER COMPLETION OF WALLS.
- 8. THE DEAD MAN ANCHORS ARE TO BE CONSTRUCTED BY PLACING CONCRETE INTO THE SPECIFIED SIZE HOLE EXCAVATED IN UNDISTURBED GROUND IF THE SPECIFIED LENGTH TIE ROD WILL NOT REACH SUITABLE UNDISTURBED THEN A LONGER ROD MUST BE USED TO MEET CONDITIONS OR A 3X3X1(THICK) HEADER STYLE DEAD MAN MAY BE USED IN DISTURBED SOILS.
- 9. THE CANAL FACE OF THE SEAWALL SLABS IS T BE PLACED ON THE PROPERTY LINE (+/- 6) UNLESS INSTRUCTED OTHERWISE BY PERMIT.
- 10. ROCK 6 INCHES NOMINAL DIAMETER AND LESS MAY BE LEFT IN BACKFILL. ALL OTHER ROCK IS TO BE REMOVED AND/OR USED AS RIP RAP ON SITE.
- 11. THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLETE THE CONSTRUCTION OF THE SEAWALL WITHIN 180 DAYS AFTER COMMENCING WORK.
- 12. THE CONTRACTOR WILL BE RESPONSIBLE TO PEG THE TOP ROW OF THE SOD IN ACCORDANCE WITH FDOT SPECS SECTION 575-3 3 STANDARD SURVEY STAKES AT LEAST 12 LONG SPACED 24 APART.
- 13. CONTRACTOR TO SEED ALL DISTURBED AREAS UNLESS A BUILDING PERMIT IS POSTED ON SITE.
- 14. ALL JOB SITES SHALL HAVE SEAWALL PERMITS POSTED ON AN APPROVED PERMIT BOARD WITH RAIN SHIELD PRIOR TO BEGINNING ANY CONSTRUCTION.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE APPROVED TURBIDITY SCREENS IN PLACE DURING ANY AND ALL CLEARING EXCAVATING AND JETTING AND BACK FILLING OPERATIONS WHICH TOTALLY ENCLOSES THE CONSTRUCTION SITE. SCREENS ARE TO REMAIN IN PLACE 24 HOURS MINIMUM AFTER CONSTRUCTION DEASES OR UNTIL TURBIDITY LEVEL IS 20 OR LESS NTU ABOVE THE PRE-CONSTRUCTION TURBIDITY LEVEL. SCREENS MUST EXTEND FROM THE WATER SURFACES TO THE BOTTOM AND BE ADEQUATELY WEIGHTED TO KEEP THEM IN PLACE DURING ALL OPERATIONS. THERE SHALL BE ADEQUATE FLOTATION AT THE SURFACE TO PREVENT OVERFLOW. THIS FLOTATION MUST BE BRIGHTLY COLORED TO MAXIMIZE VISIBILITY.
- 16. ANY LOOSE DIRT OR STOCK PILES SHALL BE SURROUNDED BY SILT SCREENS (AT THE EDGE OF THE TOE OF THE SLOPE) TO PREVENT RUNOFF INO CANAL.
- 17. CULVERT PIPE SHALL NOT PROJECT MORE THAN 4 FT FROM THE WATER-FACE OF THE SEAWALL.

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PORT CHARLOTTE, FLORIDA 33952
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CA. CERT. #30782

PROJECT NO. 2532291-2

CONTRACTOR:
LOWNDES LAW

PROJECT ADDRESS:
7012 LAKE OLA
MOUNT DORA,
FLORIDA, 32757

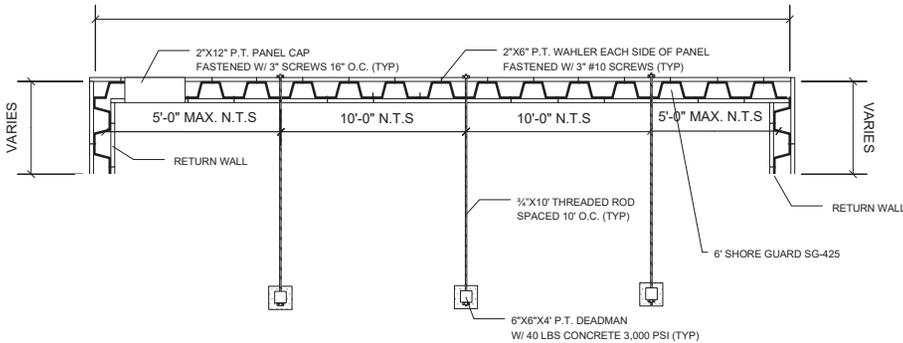
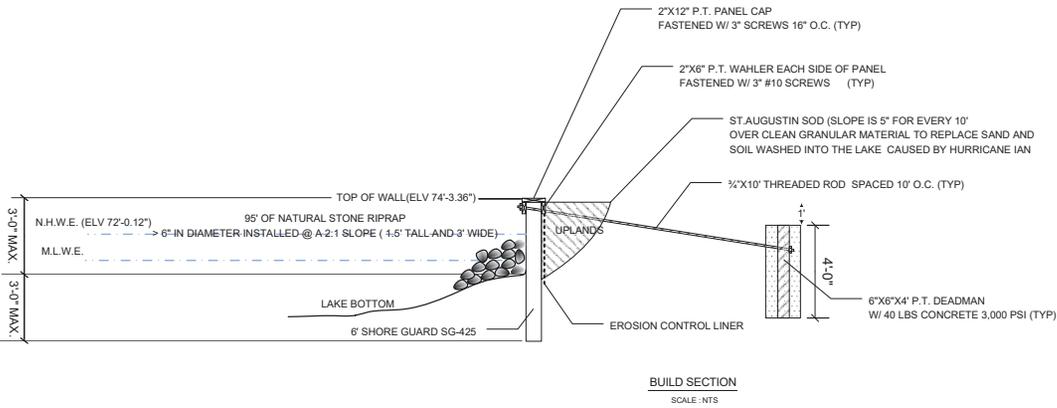
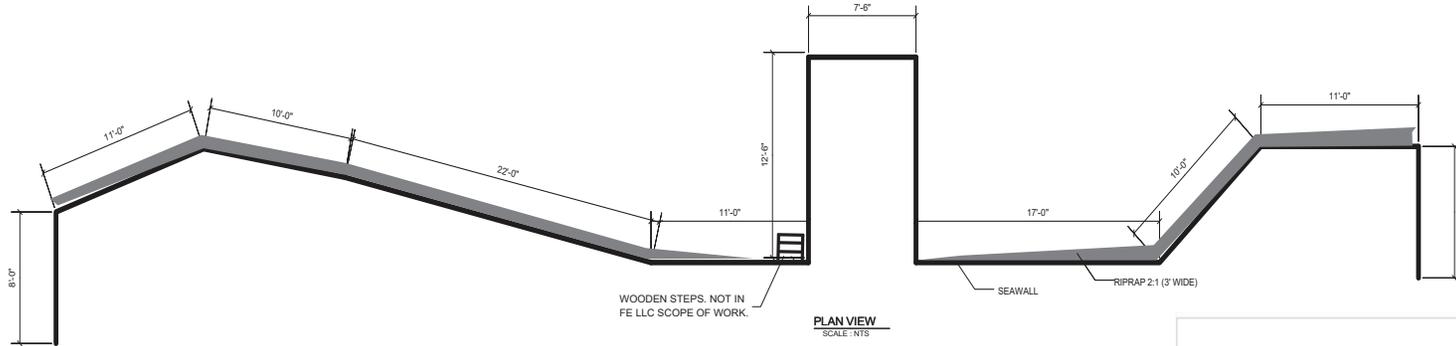
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SEAWALL ENGINEERING

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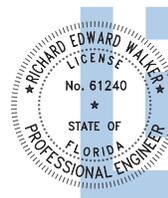
received
January 27, 2026

ALL WOOD SHALL BE NO. 2 SYP, PRESSURE TREATED OR EQ.



LONGITUDINAL SECTION DETAILS
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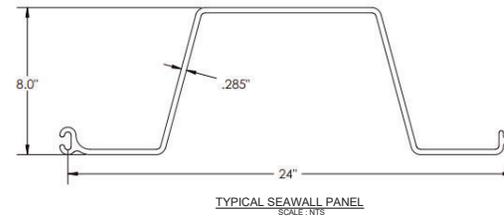


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SG-425



Allowable Moment (M)	3,813 ft-lb/ft	16.96 kN-m/m
Section Modulus (Z)	14.3 in ³ /ft	769 cm ³ /m
Moment of Inertia (I)	57 in ⁴ /ft	7,784 cm ⁴ /m
Impact Strength	13,750 in-lbs/in ²	2,406 N-mm/mm ²
Thickness (t)	0.285 in	7.2 mm
Section Depth	8.0 in	203 mm
Section Width	24 in	610 mm
Material	Weatherable Rigid Vinyl	
Standard Colors	Grey, Clay	
Technology	Box Profile, I-Beam Lock, XCR™	
Standard Packaging	20 sheets/bundle	



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DESIGN DATE: 12/08/2025

REVISION 1: 01/23/2026

REVISION 2: DATE

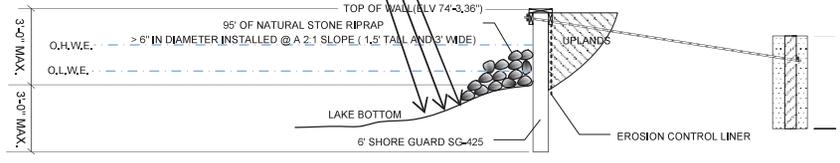
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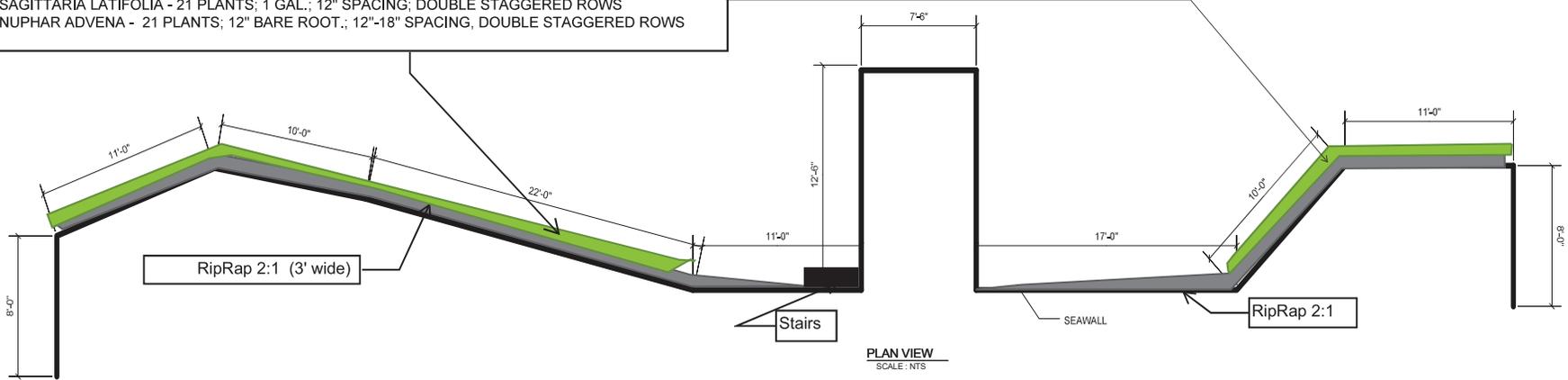


- PONTERDERIA CORDATA - 12" SPACING; DOUBLE STAGGERED ROWS
- SAGITTARIA LATIFOLIA - 12" SPACING; DOUBLE STAGGERED ROWS
- NUPHAR ADVENA - 12"-18" SPACING; DOUBLE STAGGERED ROWS



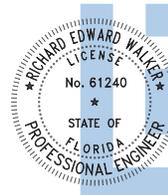
BUILD SECTION
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- HYDROPHYTIC PLANT SPECIES PER ORANGE COUNTY SECTION 30-310:
1. PONTERDERIA CORDATA - 21 PLANTS; 1 GAL.; 12" SPACING; DOUBLE STAGGERED ROWS
 2. SAGITTARIA LATIFOLIA - 21 PLANTS; 1 GAL.; 12" SPACING; DOUBLE STAGGERED ROWS
 3. NUPHAR ADVENA - 21 PLANTS; 12" BARE ROOT.; 12"-18" SPACING; DOUBLE STAGGERED ROWS



PLAN VIEW
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VEGETATION AREA CROSS-SECTIONS AND PLANTING SPECIFICATIONS HAVE BEEN PROVIDED FOR REFERENCE ONLY AND ARE NOT IN FELLC SCOPE OF WORK.

