

SYMBOL KEY



PROTECTED TREE TO BE PRESERVED
DAK TREE TO BE PRESERVED
PINE TREE TO BE PRESERVED
ALM TO BE PRESERVED
REE PROTECTION FENCING

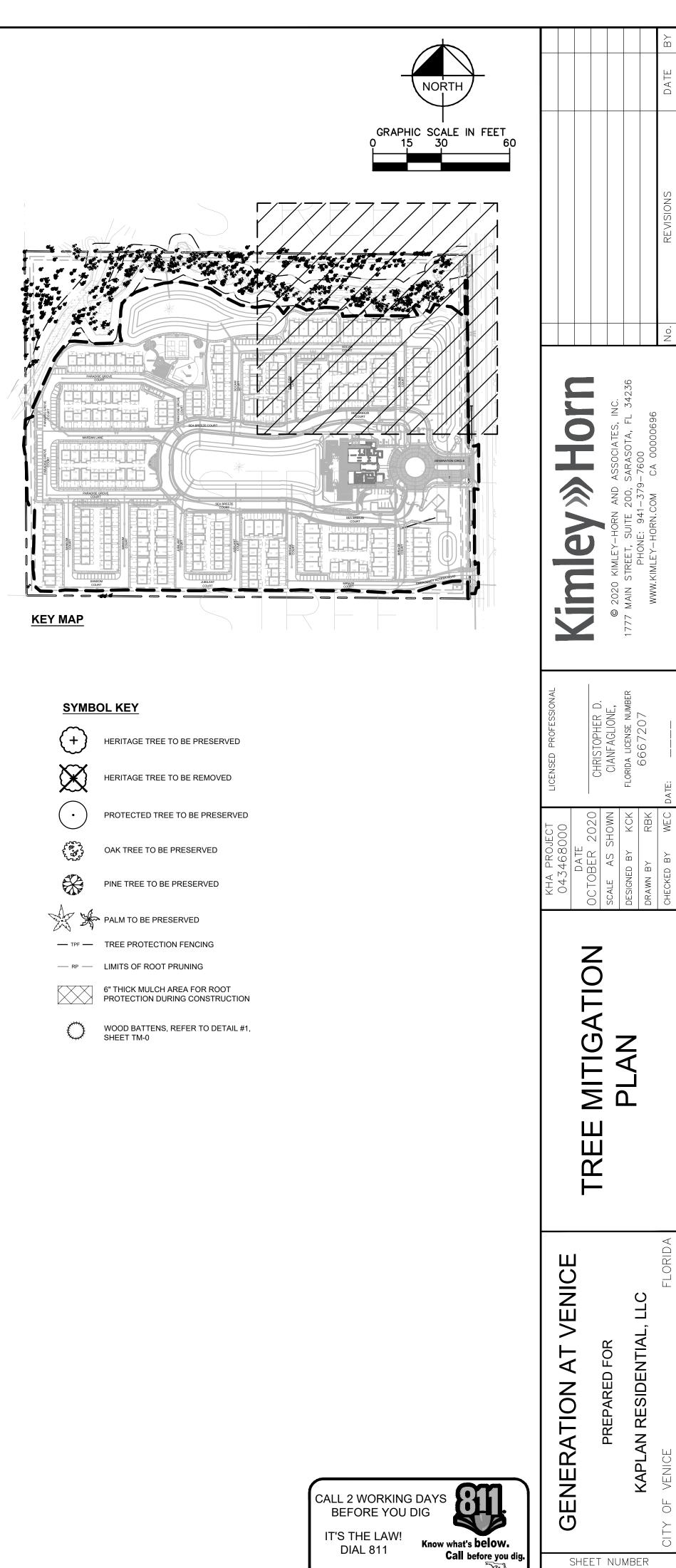
6" THICK MULCH AREA FOR ROOT PROTECTION DURING CONSTRUCTION

WOOD BATTENS, REFER TO DETAIL #1, SHEET TM-0

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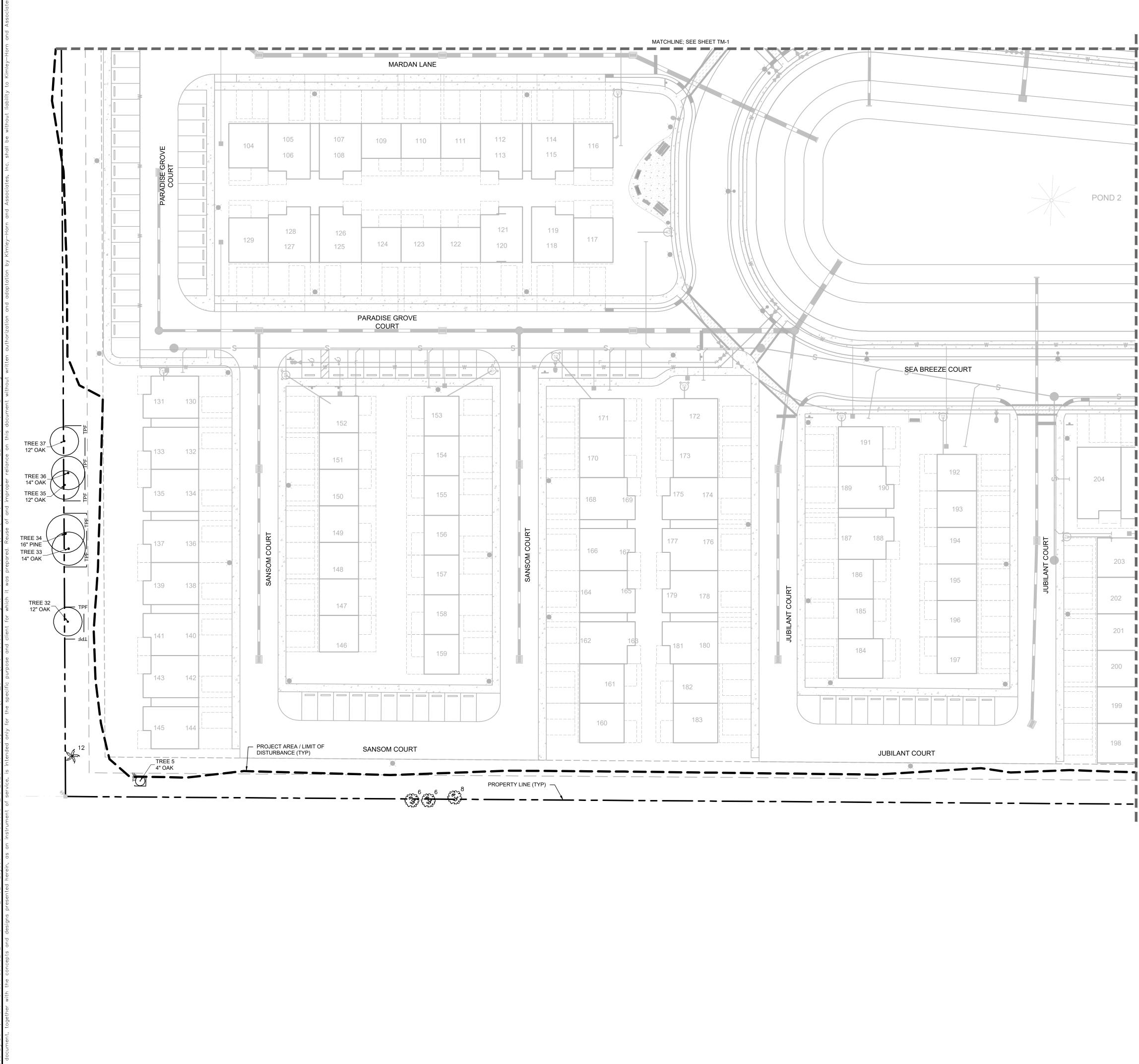


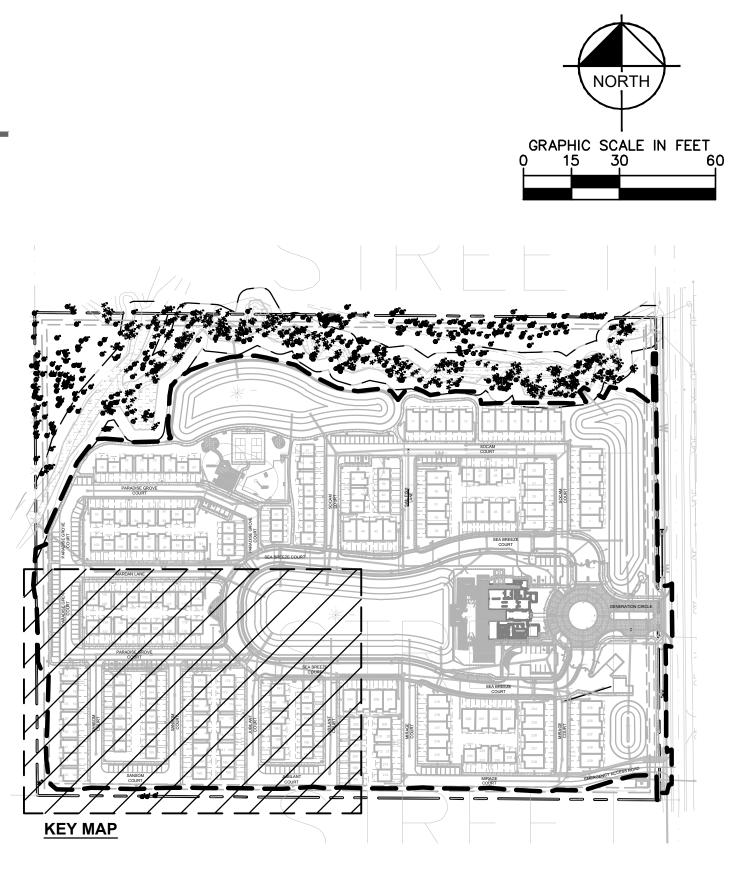


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SYMBOL KEY

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PINE TREE TO BE PRESERVED - RP - LIMITS OF ROOT PRUNING

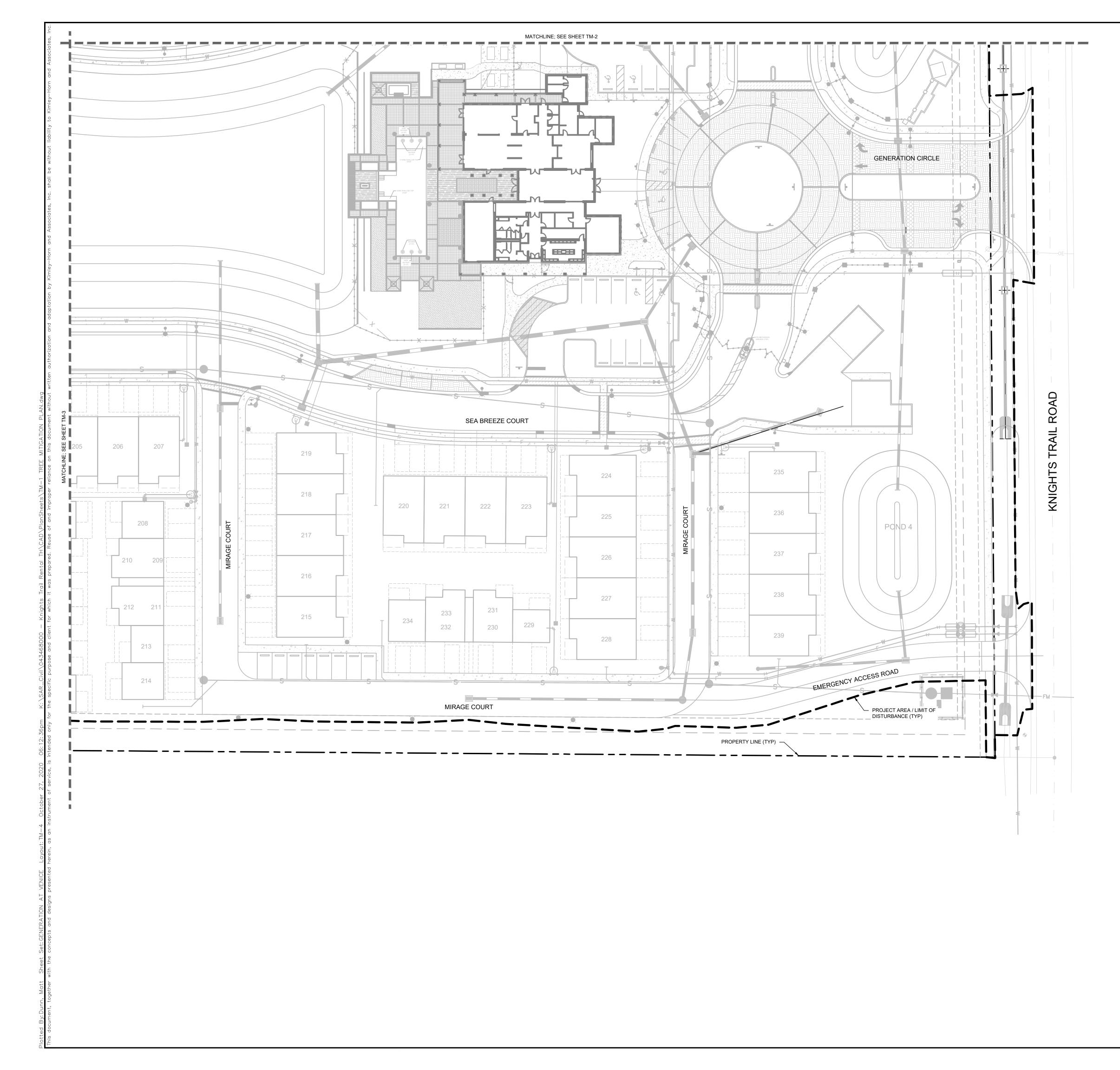
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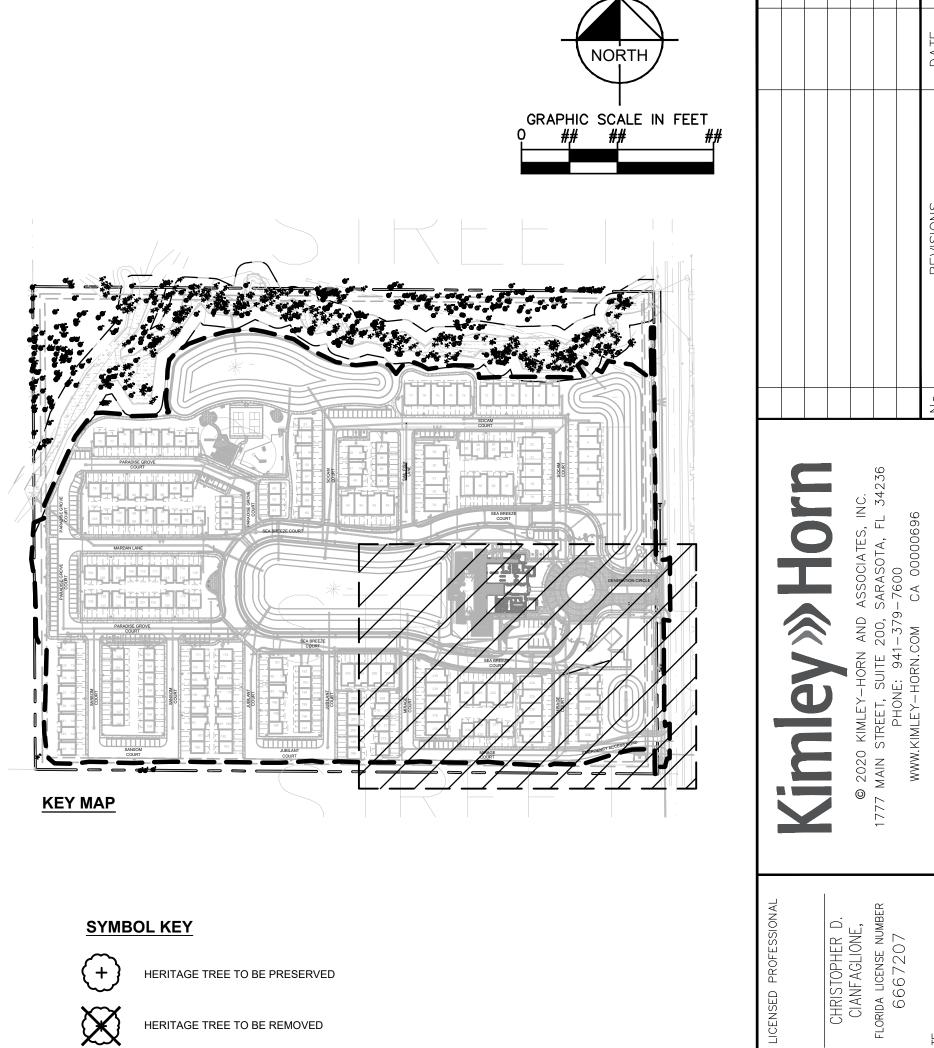
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	TREE MITIGATION	PLAN	
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LICENSED PROFESSIONAL	CHRISTOPHER D. CIANFAGLIONE,	FLORIDA LICENSE NUMBER 6667207	'ATE:
Kimlew»Horn	© 2020 KIMLEY-HORN AND ASSOCIATES. INC.	1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600	WWW.KIMLEY-HURN.COM CA UUUU0696
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PROTECTED TREE TO BE PRESERVED

OAK TREE TO BE PRESERVED

PINE TREE TO BE PRESERVED

PALM TO BE PRESERVED

- TPF - TREE PROTECTION FENCING

6" THICK MULCH AREA FOR ROOT PROTECTION DURING CONSTRUCTION

WOOD BATTENS, REFER TO DETAIL #1, SHEET TM-0

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	Kimlev»Horn	© 2020 KIMLEY-HORN AND ASSOCIATES, INC.	1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 WWW.KIMLEY-HORN.COM CA 00000696	
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TREE MITIGATION SPECIFICATIONS

A. GENERAL

- 1. CONTRACTOR SHALL ADHEAR TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONNING CODE, TREE PROTECTION (LATEST EDITION). WHICHEVER IS MORE STRINGENT SHALL APPLY.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
- 3. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.
- 4. NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
- 5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
- 6. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO PERSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
- FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
- 3. CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL SPILL CONTAINMENT MATERIALS AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATIONS AND ACCIDENTAL SPILLS ON SITE AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO INSPECT EACH APPLICATOR AND HAVE THESE MATERIALS PRESENTED BEFORE AND DURING ANY PESTICIDE TREATMENT.
- 9. WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN FOUR (4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW AIR AND WATER INTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SUCH IMPERVIOUS SURFACES.
- 10. TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
- 11. THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOW:
- a. TREE PROTECTION FENCING.
- b. ROOT PRUNING AND ROOT BARRIERS
- c. CLEARING.
- d. TREE CANOPY PRUNING.
- e. FERTILIZATION.
- f. INSECTICIDE.
- g. IRRIGATION.
- B. TREE PROTECTION FENCING PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING. AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE. NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARBORIST TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY. 5. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST. NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE. EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS. DO NOT INSTALL CONDUIT. DRAIN OR IRRIGATION LINES. OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE. 10. CONTRACTOR'S ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST 11. EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST. 12. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST. TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED 13. AND NEW FENCING SHALL BE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION
- ACTIVITIES ARE COMPLETE.
 14. IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
- 15. IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCH OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN A SIX (6) INCH ROAD BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
- 16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.C. ROOT PRUNING/TRENCHING
- 1. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORIST.
- TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MINIMUM DEPTH OF THREE FEET IS REQUIRED.
- 3. INSTALL ROOT BARRIER WHERE DESIGNATED. SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
- 4. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
- TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
 WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.
- ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT.
- 2. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
- PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.

D. CLEARING

A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.

TREE CANOPY PRUNING

4.

5.

TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.

1. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING.

2. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).

3. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.

WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.

PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z133.1 SAFETY STANDARD. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISA'S "BEST MANAGEMENT PRACTICES: TREE PRUNING".

6. WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.

7. NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.

8. ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:

a. LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.

b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.

c. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.

- d. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
- e. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
- f. ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.

g. ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.

GRADE.

9. TREES, WHO'S ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:

- a. THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PROJECT ARBORIST.
- b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
- c. REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
- d. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.

10. PROPOSED/REPLACEMENT TREES

a. PRUNING SHALL BE LIMITED TO CLEANING.

11. BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

FERTILIZATION

3

4

1. CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK

EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.

ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.

TREES SPECIFIED TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS.

- a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
- b. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
- c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
- d. THE CRITICAL ROOT ZONE AREA PLUS 2' BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRUNING LOCATIONS.
- e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.

f. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
 5. TRANSPLANT INOCULANT & BIOSTIMULANT.

- a. CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10" WIDE TOPSOIL RING AROUND THE ROOT BALL.
 b. CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS
- AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE.
- INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.

d. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL.

7. TRANSPLANT MAINTENANCE

a. APPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL REFERTILIZE ALL TRANSPLANTS UTILIZING THE SAME PROCEDURES ABOVE.

G. INSECTICIDE

NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.

2. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.

3. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.

4. ANY PETS, AS WELL AS, THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.

5. ENSURE COMPLETE COVERAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.

H. IRRIGATION

EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.

2. IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.

 UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTII MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.
 TREE REMOVALS

- 1. PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOV PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 36 INCHES MINIMUM ABOVE GRADE.
- 2. CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AF INSTALLED.
- 3. ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GF SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE REMOVED BY CONTRACTOR.
- 4. ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME I BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCAT SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
- 5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWN
- 6. TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTF SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND U
- 7. TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVATED WITHIN THE TREE PROTECTION
- J. MACHINE DUG TRANSPLANTING

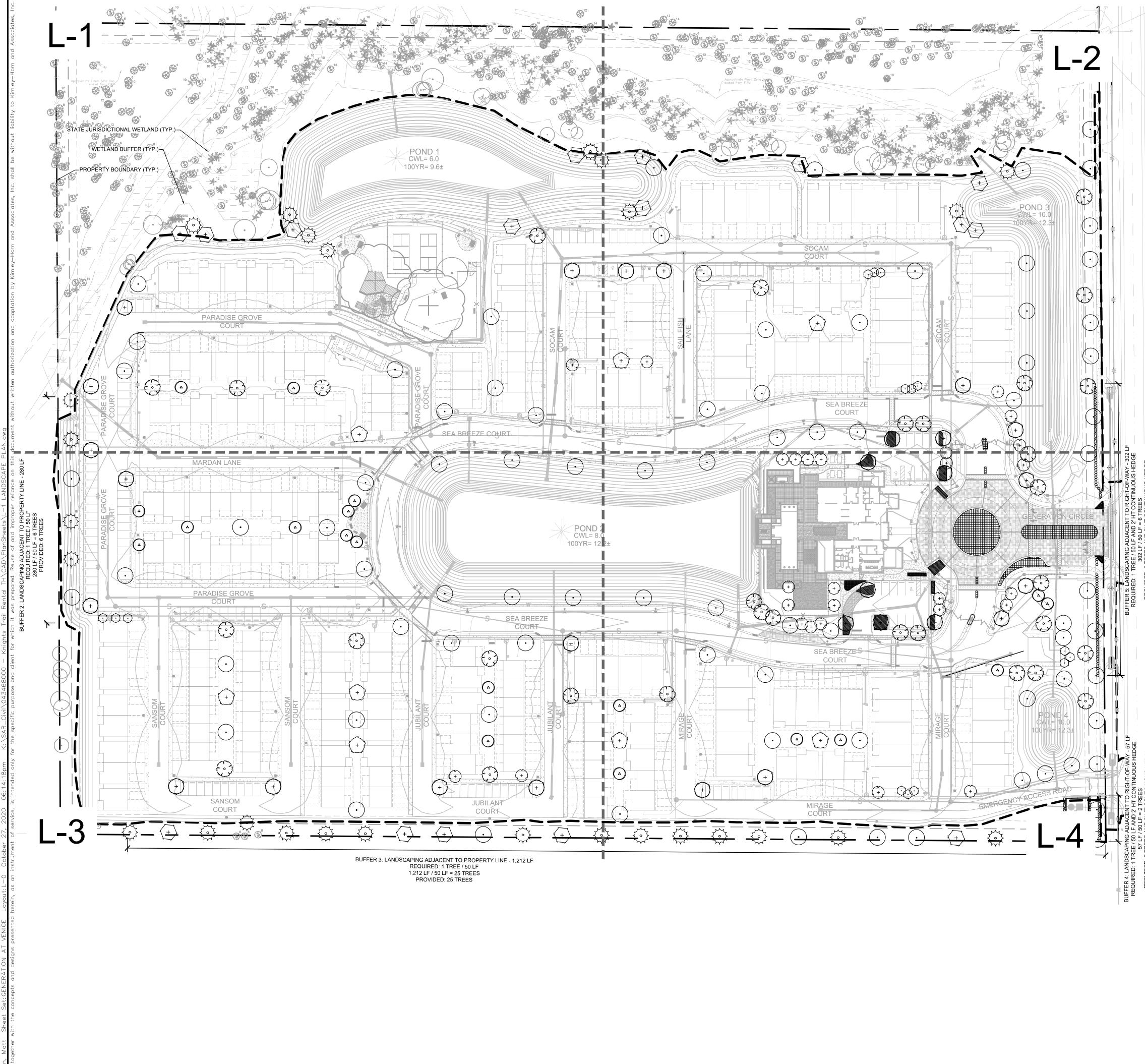
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- DIG TRANSPLANT-RECEIVING HOLE.
 SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE.
- 3. WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE
- 4. INSTALL TOPSOIL RING, 4" HIGH, 10" WIDE, AROUND PERIMETER OF ROOT BALL. MIX MYCC
- TOPSOIL RING PER MANUFACTURERS SPECIFICATIONS.
- 5. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TRE
- 6. COVER TOPSOIL RING WITH 1" OF MULCH AND EXTEND MULCH 4"-6" DEEP, AWAY FROM PE
- 7. WATER TRANSPLANT.K. HOLDING AREA FOR TRANSPLANTS
- 1. HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMP IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJEC
- 2. SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTAL AREA.
- 3. CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING ARI
- 4. CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTIN POLYETHYLENE PIPE, SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A PROJECT ARBORIST FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHOD

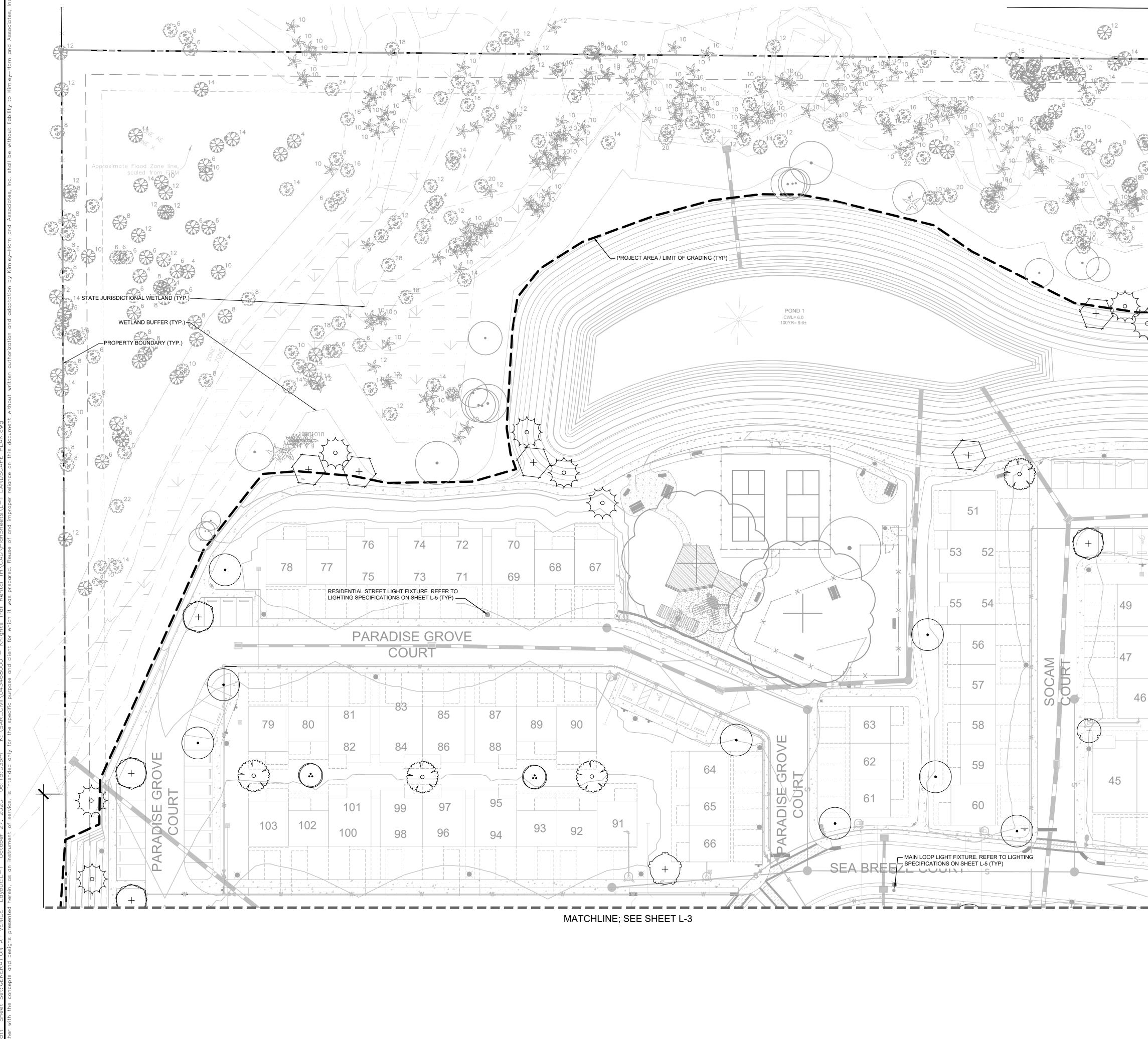
L. TOPSOIL

- 1. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTEC ARBORIST PRIOR TO BEGINNING WORK.
- ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHA TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
- 3. TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FRO LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, R ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
- 4. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATUR
- TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM BOG5. PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT.
- M. REPAIR OF DAMAGED TREES
- 1. IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CO ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER
- 2. IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSI THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE T ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

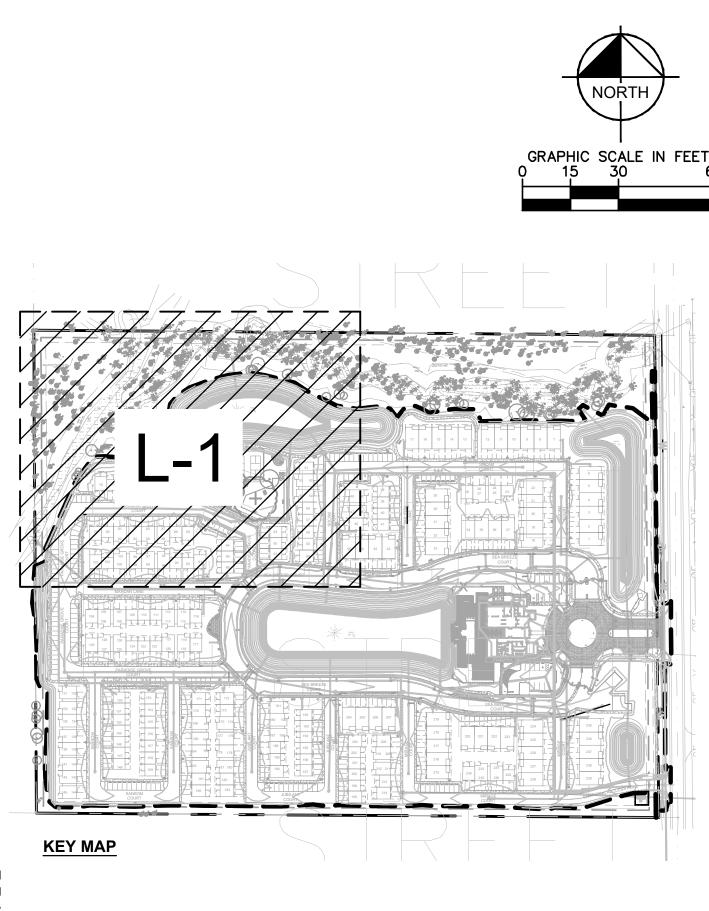
		DATE BY
		EVISIONS
TING TREES UNLESS ROOT PROTECTION		REVISI
OVED SHALL BE CLEARLY MARKED BY E.		
AFTER THE TREE PROTECTION FENCING IS		
GROUND 6" BELOW SURFACE. ANY TREE BE FELLED WITH A CHAIN SAW AND STUMP		
E DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO CATED TREES IF SCHEDULING PERMITS. TOPS EE (3) INCHES. ALL EXCESS WOOD CHIPS		
WNER.		OTD FES, INC. A, FL 34236 00696
ES TO REMAIN MUST BE REMOVED BY A ITRACTORS. THE QUALIFIED ARBORIST UNDERSTORY VEGETATION TO REMAIN.		ATES, 1 DTA, FL 00069(
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LE.		© 2020 KIMLEY-HORN AND MAIN STREET, SUITE 200, PHONE: 941-379- WWW.KIMLEY-HORN.COM
LE. CORRHIZAL TRANSPLANT INOCULANT INTO		KIMLEY- STREET, PHON KIMLEY-I
REE TRUNK.		© 2020 KIN 77 MAIN STR WWW.KIM
PERIMETER OF ROOT BALL.		0 1 177 M
MPLEMENTED SO THAT TREES ARE		
ECT ARBORIST AS NEEDED. TALLED AT THE PERIMETER OF THE ENTIRE		ER
		ICENSED PROFESSIONAL CHRISTOPHER D. CIANFAGLIONE, FLORIDA LICENSE NUMBER 6667207 E:
TING OF ABOVE GROUND PVC OR A CONTROLLER. COORDINATE WITH ODS.		
ECTION AREAS WITH THE PROJECT		LICENSED CHRIS CLAN FLORIDA 66 DATE:
ARACTERISTICS OF REPRESENTATIVE		
ROM SUBSOIL, OBJECTIONABLE WEEDS, , ROOTS, TRASH, TOXIC SUBSTANCES, OR		S SH 20EC
URALLY WELL-DRAINED SITES WHERE DGS OR MARSHES.		
JGS UK MARSHES.		KH/ 04 05 05 05 04 DESIGN DRAWN CHECKI
CONSTRUCTION PERIOD, THE PROJECT NER FOR REPAIR BY THE CONTRACTOR. SION OF THE OWNER'S REPRESENTATIVE, O THE OWNER FOR REPLACEMENT BY THE E TREE AND ANY FEES THAT MAY BE		TREE MITIGATION SPECIFICATIONS
	CALL 2 WORKING DAYS BEFORE YOU DIG I'S THE LAW! DIAL 811 Know what's below. Call before you dig.	GENERATION AT VENICE BREPARED FOR KAPLAN RESIDENTIAL, LLC CITY OF VENICE APLAN RESIDENTIAL, LLC FLORIDA



			GRAPHIC SCALE IN FEET	DATE BY
		NDSCAPE CALCULATION		E VISIONS
PLANT MATERIAL	TREES	REQUIRED 0' HT MIN., 4' SPREAD MIN.	PROVIDED REFER TO PLANTING SCHEDULE FOR SPECIFICATIONS	Le la
SEC. 86-431	SHRUBS 2' HT MIN. SCREENING HEDGI O.C.	ES SHALL BE SPACED NO MORE THAN 30"		
LANDSCAPING ADJACENT TO PUBLIC R.O.W.	BUFFER 4: 1 TREE 57 LF / 50 LF = 2 TR BUFFER 5: 1 TREE 302 LF / 50 LF = 6 T	PER 50 LF	BUFFER 4 2 TREES BUFFER 5 6 TREES	
SEC. 86-436 LANDSCAPING ADJACENT TO PROPERTY LINES	BUFFER 1: 1 TREE	ND VEGETATION PROVIDED IN LIEU OF	2' HT CONTINUOUS HEDGE BUFFER 1 *EXISTING WETLAND VEGETATION PROVIDED IN LIEU OF PROPOSED BUFFER PLANTINGS	
	BUFFER 2: 1 TREE 280 LF / 50 LF = 6 T	REES	BUFFER 2 6 TREES	ASSOCIATES, SARASOTA, F - 7600 CA 000006
SEC. 86-437			BUFFER 3 25 TREES 1,713 SF LANDSCAPING	
	ADDITION TO PARI 193,910 SF OF VUA	/ 500 SF X 10 SF = 3,878 SF LANDSCAPING	5,100 SF LANDSCAPING	ALEY-HORN AN ALEY-HORN AN EET, SUITE 200 PHONE: 941-3
SEC. 86-438 TREE MITIGATION AND REPLACEMENT	3,878 SF OF REQUI	F OF REQUIRED VUA LANDSCAPED AREA IRED AREA / 100 SF = 39 TREES ER ACRE OF PROJECT AREA (EXCLUDING	39 TREES NATIVE TREES 24" DBH OR GREATER CREDIT 2X TOTAL DBH	A X X X X X X X X X X X X X X X X X X X
	PROJECT AREA: 23	3.3 ACRES X 40" / ACRE = 932 INCHES 6 INCHES (REMOVED 36" HERITAGE TREE) 68 TOTAL INCHES	90" DBH PRESERVED TREES 24"+ = 180" PRESERVATION CREDIT + 246 PROPOSED TREES @ 3" CALIPER = 738" + 8 PROPOSED TREES @ 5" CALIPER = 40" + 15 PALMS = 12.5" (3 PALMS = 2.5") TOTAL INCHES PROVIDED: 970.5 INCHES	© 2020 177 MAIN WWW
SEC. 118.12 MASTER TREE SPECIES LIST	75% OF REPLACEN SIZED CANOPY TR	MENT TREES SHALL BE LARGE/MEDIUM EES	242 / 257 LARGE/MEDIUM SIZED CANOPY TREES PROVIDED: 94%	ER IAL
	PALMS SHALL NOT	L CONSTITUTE MORE THAN 50% PLANTINGS T CONSTITUTE MORE THAN 25% OF S - 3 PALMS = 1 TREE (2.5")	MAX. ONE SPECIES - LIVE OAK: 84 (33%) 12.5" / 754" = 2%	PROFESSIONAL OPHER D. AGLIONE, cense number 57207 TOBER 020
SEC. 118-12	NO MORE THAN 25	% OF REQUIRED TREES SHALL BE PINE	11% PINES PROVIDED	LICENSED PROFESS CHRISTOPHER CIANFAGLION FLORIDA LICENSE NU 6667207 OCTOBER E: 2020
 ALL QUANTITIES PROB BIDDING AND CONSTR SOD ALL AREAS OF DI ACCORDANCE WITH L 	VIDED FOR CONVENIEN RUCTION. ISTURBANCE WITH BAH ANDSCAPE SPECIFICAT	HT TO FIELD ADJUST ALL PLANT MATERIAL. ICE ONLY. CONTRACTOR SHALL CONFIRM ALL QU/ IIA (<i>PASPALUM NOTATUM</i>), AND HAND WATER TUR TIONS. 'STEM WILL BE INSTALLED TO PROVIDE 100% UNIF	RF THROUGH ESTABLISHMENT IN	KHA PROJECT 043468000 DATE DATE OCTOBER 2020 SCALE AS SHOWN SCALE AS SHOWN DESIGNED BY KCK DRAWN BY RBK CHECKED BY WEC
REQUIRED LANDSCAF	PE. IRRIGATION PLAN WI	SYMBOL KEY	ONNI COVERAGE FOR ALL CODE	AN
	REES CODE	COMMON NAME		
{ +	+ вв	SHADY LADY BLACK OLIVE		
(· · ·	BS	GUMBO LIMBO		RALL APE PI
	BS CS			VERALL SCAPE PI
	CS ED	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE		OVERALL DSCAPE PI
	cs	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM		OVERALL ANDSCAPE PI
	CS ED + LS	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE		OVERALL LANDSCAPE PI
	CS ED + LS MB	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA		LAND
	CS ED + LS MB O PD	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE		ICE OVERALL COVERALL LANDSCAPE PI
	CS ED + LS MB PD QV CS SS	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE SOUTHERN LIVE OAK		revice C C C C C C C C C C C C C C C C C C C
	CS ED + LS MB PD QV CS SS CS SCREEN 3 GALLO INTERIC SHRUBS	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE SOUTHERN LIVE OAK CABBAGE PALMETTO	E AT TIME OF PLANTING	revice C C C C C C C C C C C C C C C C C C C
	CS ED + LS MB PD QV C SS CS SCREEN GROUN INTERIC SHRUBS GROUN INTERIC SHRUBS	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE SOUTHERN LIVE OAK CABBAGE PALMETTO NING SHRUBS ON MIN., 24" HT MIN., 3' O.C. MAX. DR LANDSCAPING PER PARKING SPACE S - 24" HT MINIMUM IDCOVER - REASONBLY COMPLETE COVERAGI	E AT TIME OF PLANTING	RATION AT VENICE PREPARED FOR LAN RESIDENTIAL, LLC CE
	CS ED + LS MB PD QV C SS CS SCREEN GROUN INTERIC SHRUBS GROUN INTERIC SHRUBS	GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE SOUTHERN LIVE OAK CABBAGE PALMETTO NING SHRUBS ON MIN. 24" HT MIN., 3' O.C. MAX. OR LANDSCAPING PER PARKING SPACE S - 24" HT MINIMUM IDCOVER - REASONBLY COMPLETE COVERAGI S - 24" HT MINIMUM IDCOVER - REASONBLY COMPLETE COVERAGI		revice C C C C C C C C C C C C C C C C C C C







PLANT SYMBOL KEY

TREES	CODE	COMMON NAME
+	BB	SHADY LADY BLACK OLIVE
+ }	BS	GUMBO LIMBO
	CS	SILVER BUTTONWOOD
+)	ED	JAPANESE BLUEBERRY TREE
+	LS	AMERICAN SWEET GUM
	MB	BRACKEN'S SOUTHERN MAGNOLIA
	PD	SLASH PINE
•)	QV	SOUTHERN LIVE OAK
$\underbrace{}$	SS	CABBAGE PALMETTO

<u>SCREENING SHRUBS</u> 3 GALLON MIN., 24" HT MIN., 3` O.C. MAX.

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INTERIOR LANDSCAPING PER PARKING SPACE SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING

INTERIOR LANDSCAPING: OFF-STREET PARKING GC SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING

CALL 2 WORKING DAYS BEFORE YOU DIG

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Know what's **below.**

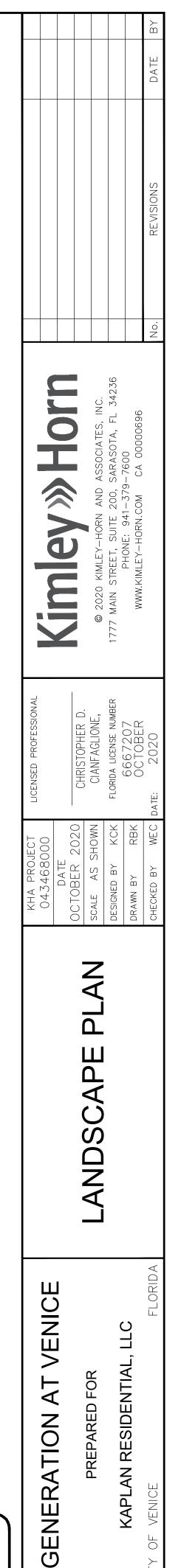
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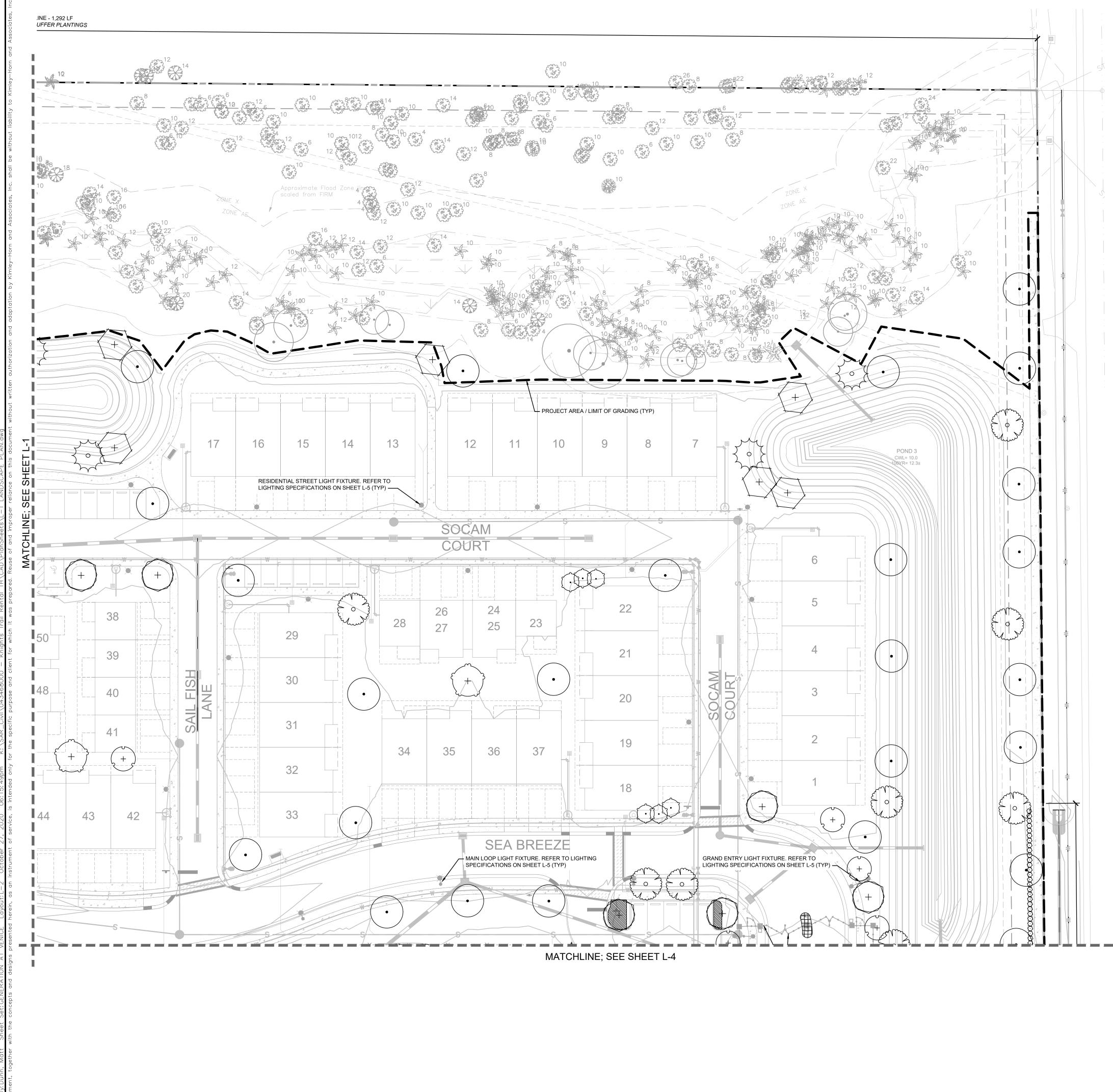
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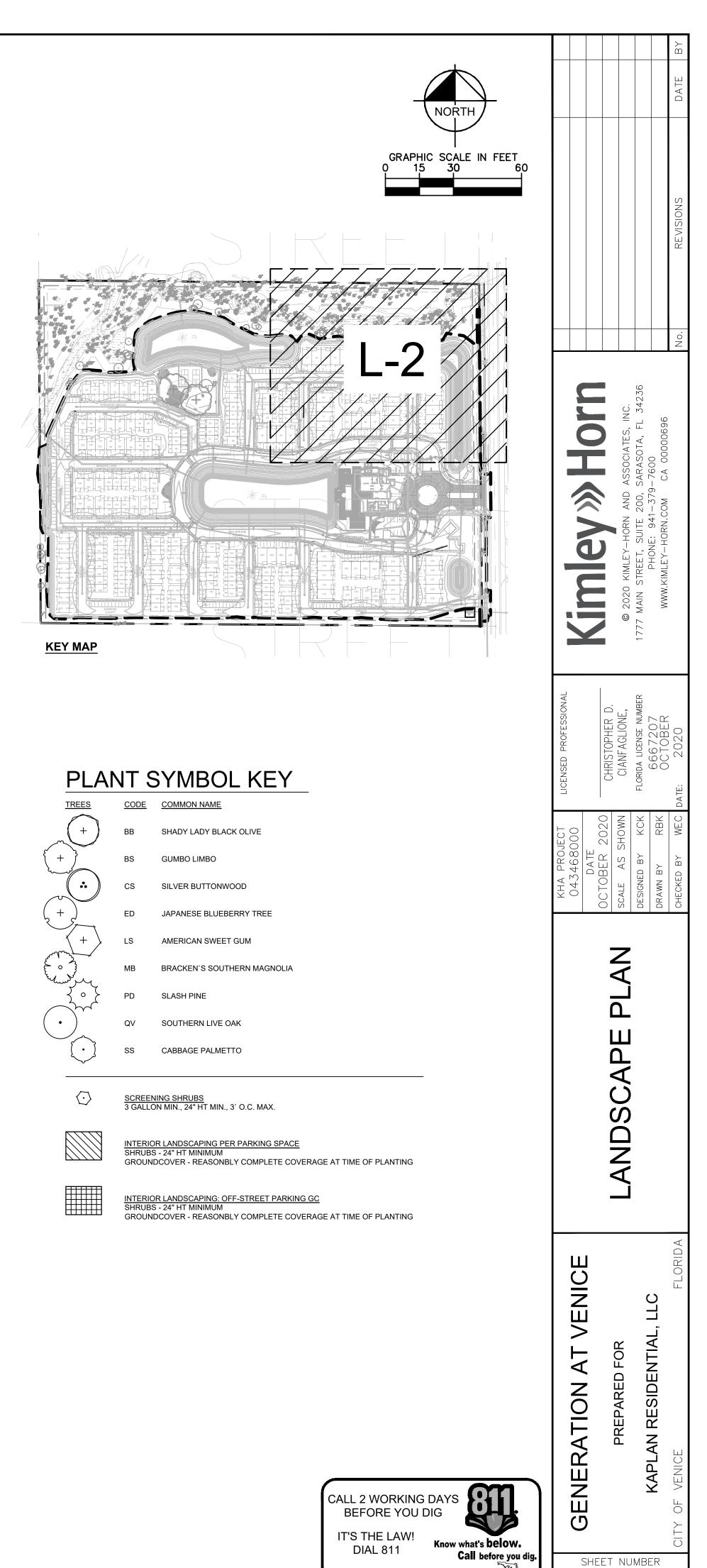
IT'S THE LAW!

DIAL 811



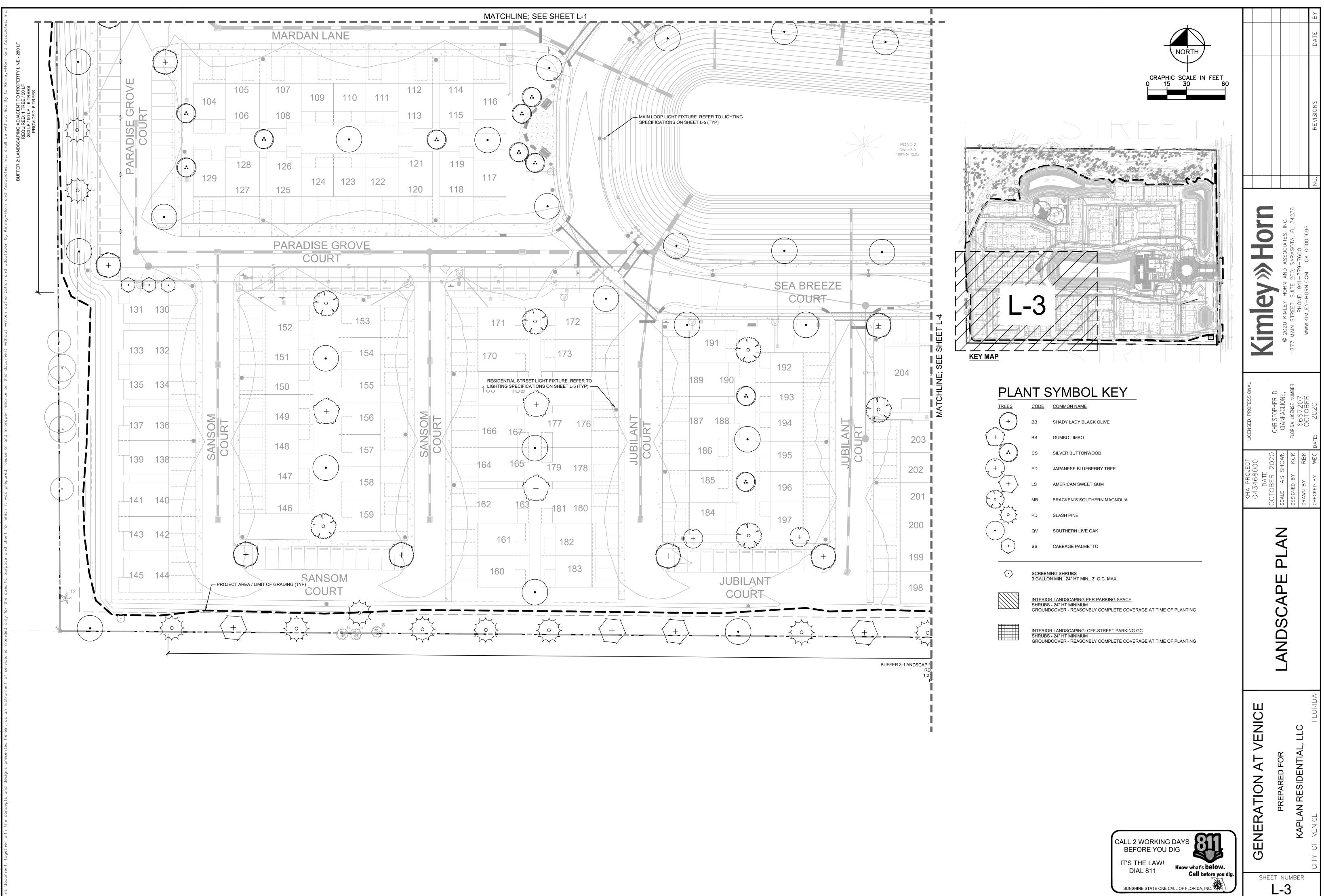




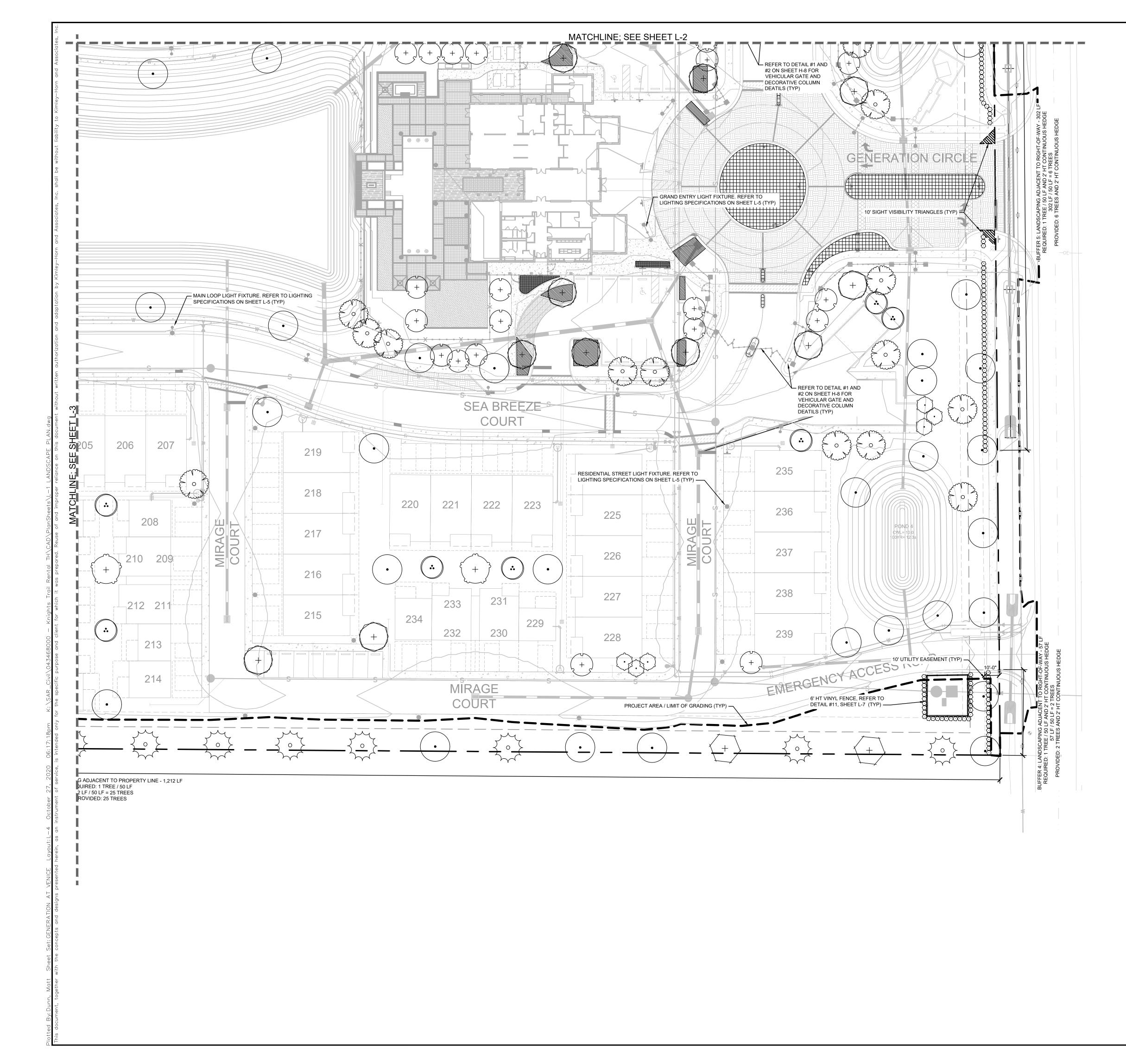


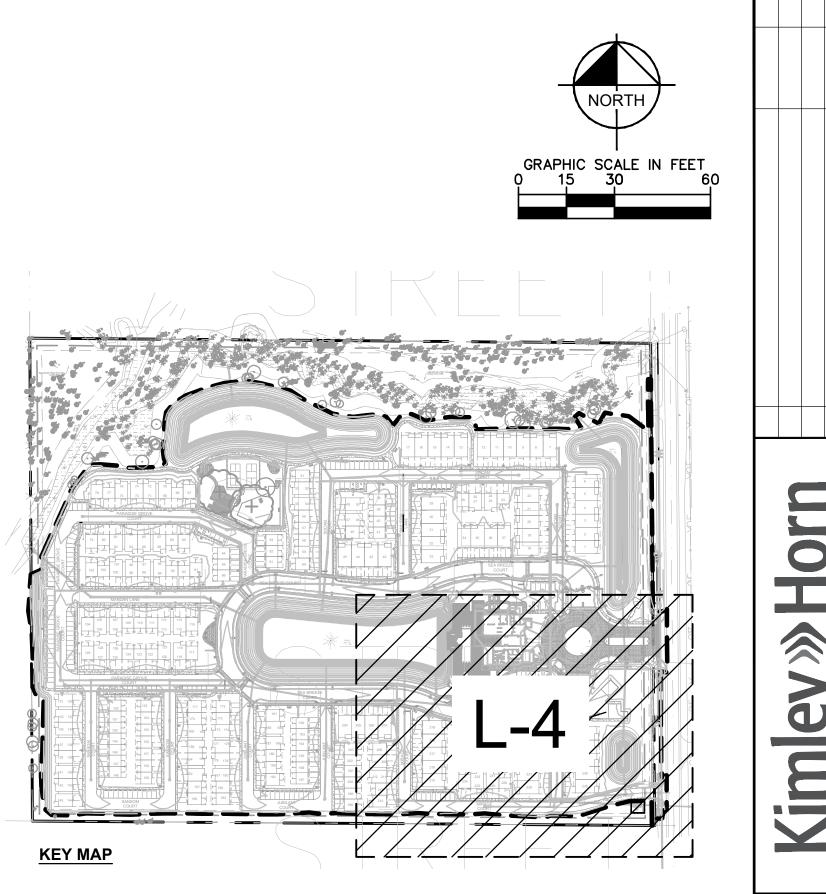
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

L-2









PLANT SYMBOL KEY

TREES	CODE	COMMON NAME
+	BB	SHADY LADY BLACK OLIVE
(+)	BS	GUMBO LIMBO
	CS	SILVER BUTTONWOOD
	ED	JAPANESE BLUEBERRY TRE
+	LS	AMERICAN SWEET GUM
	MB	BRACKEN'S SOUTHERN MAC
	PD	SLASH PINE
$\left(\cdot \right)$	QV	SOUTHERN LIVE OAK
$\underbrace{}$	SS	CABBAGE PALMETTO

GUMBO LIMBO SILVER BUTTONWOOD JAPANESE BLUEBERRY TREE AMERICAN SWEET GUM BRACKEN'S SOUTHERN MAGNOLIA SLASH PINE SOUTHERN LIVE OAK

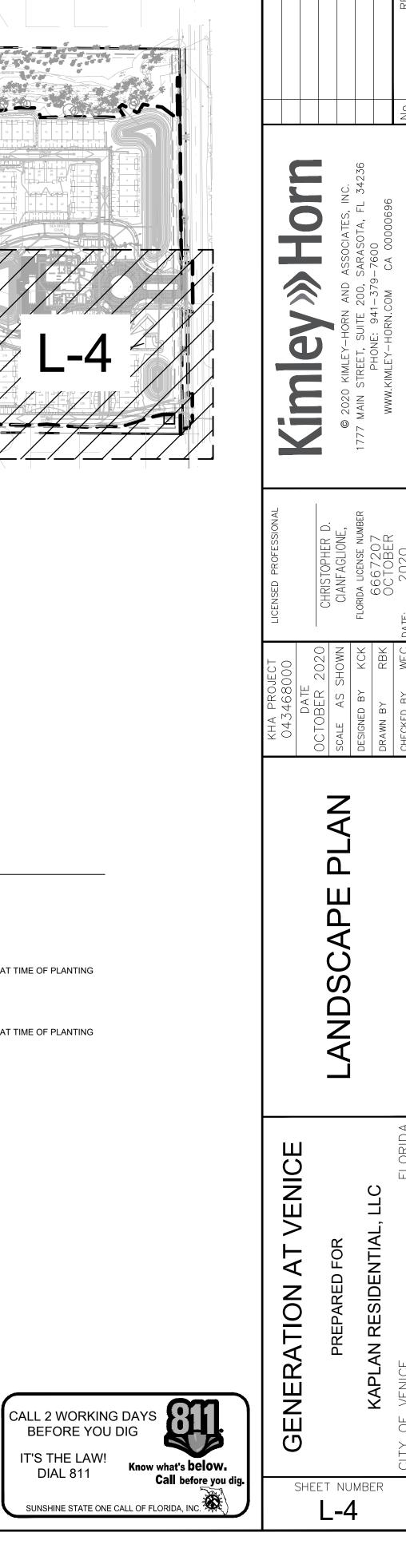
SCREENING SHRUBS 3 GALLON MIN., 24" HT MIN., 3` O.C. MAX.

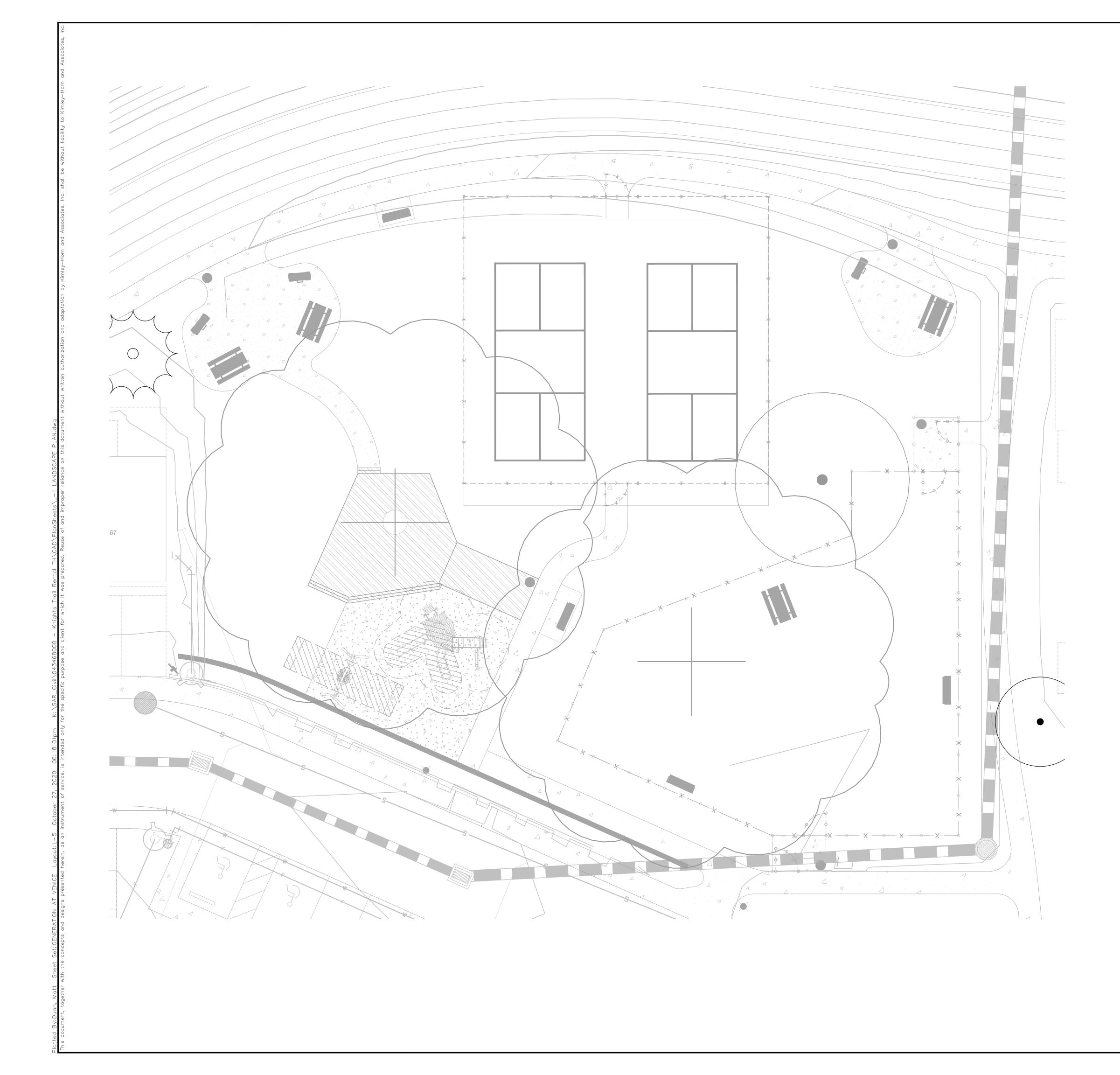


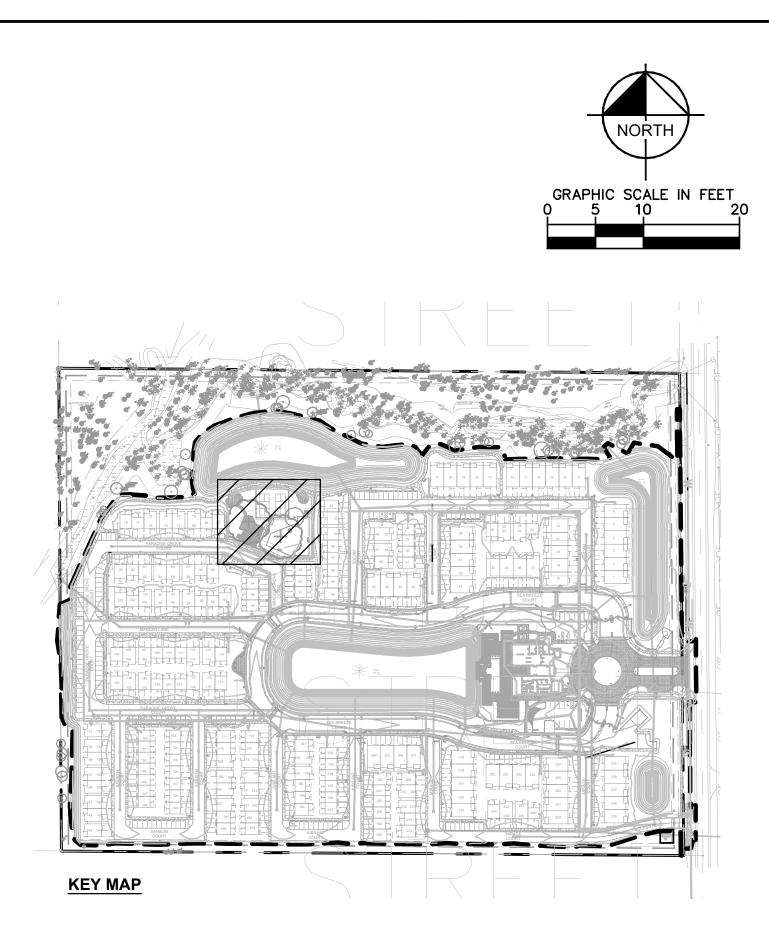
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INTERIOR LANDSCAPING PER PARKING SPACE SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING

INTERIOR LANDSCAPING: OFF-STREET PARKING GC SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING







PLANT SYMBOL KEY

IREES	CODE	COMMON NAME
(+)	BB	SHADY LADY BLACK OLIVE
}	BS	GUMBO LIMBO
	CS	SILVER BUTTONWOOD
	ED	JAPANESE BLUEBERRY TREE
+	LS	AMERICAN SWEET GUM
	MB	BRACKEN'S SOUTHERN MAGNOLIA
	PD	SLASH PINE
	QV	SOUTHERN LIVE OAK
	SS	CABBAGE PALMETTO

<u>SCREENING SHRUBS</u> 3 GALLON MIN., 24" HT MIN., 3` O.C. MAX.

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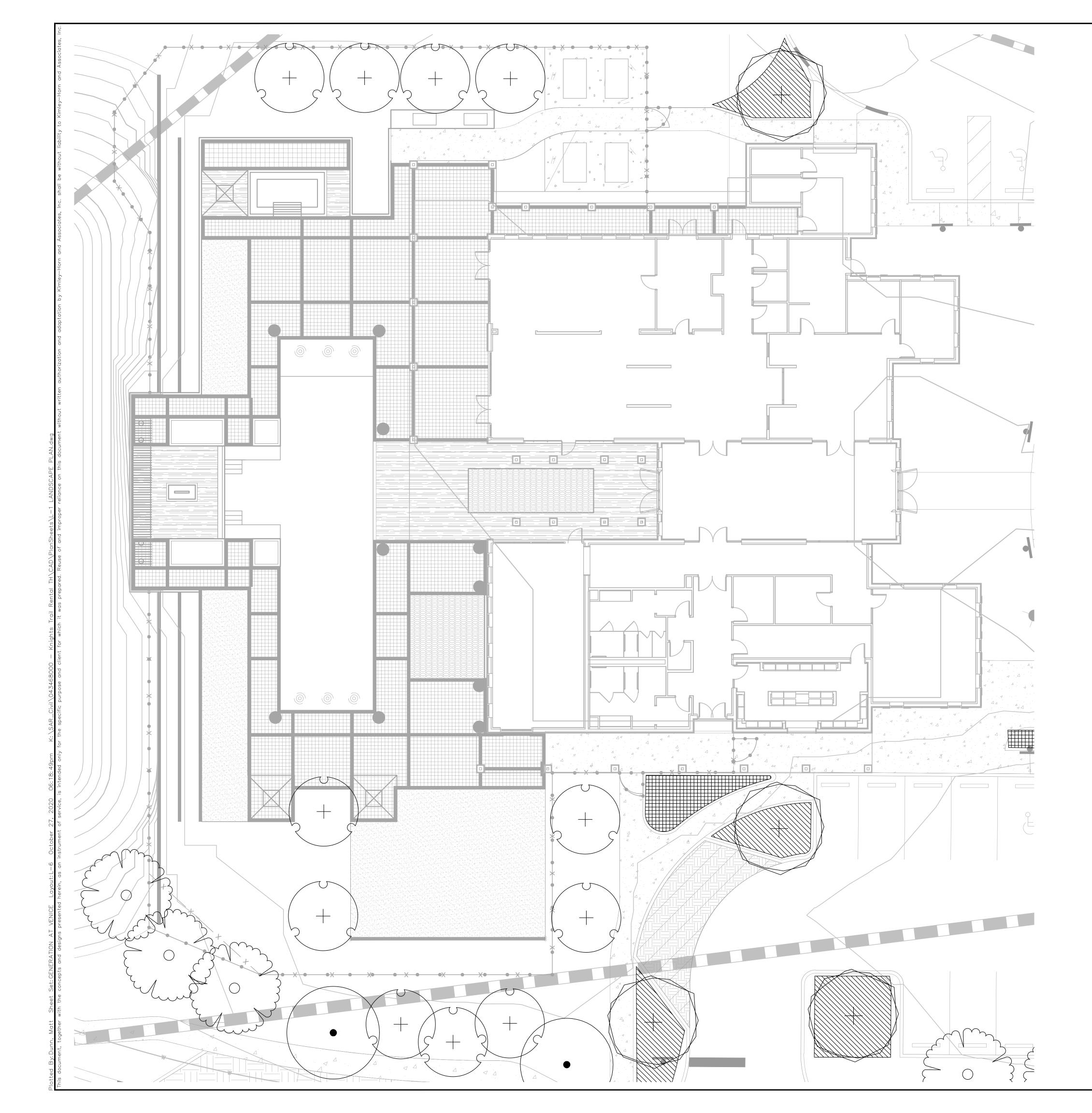
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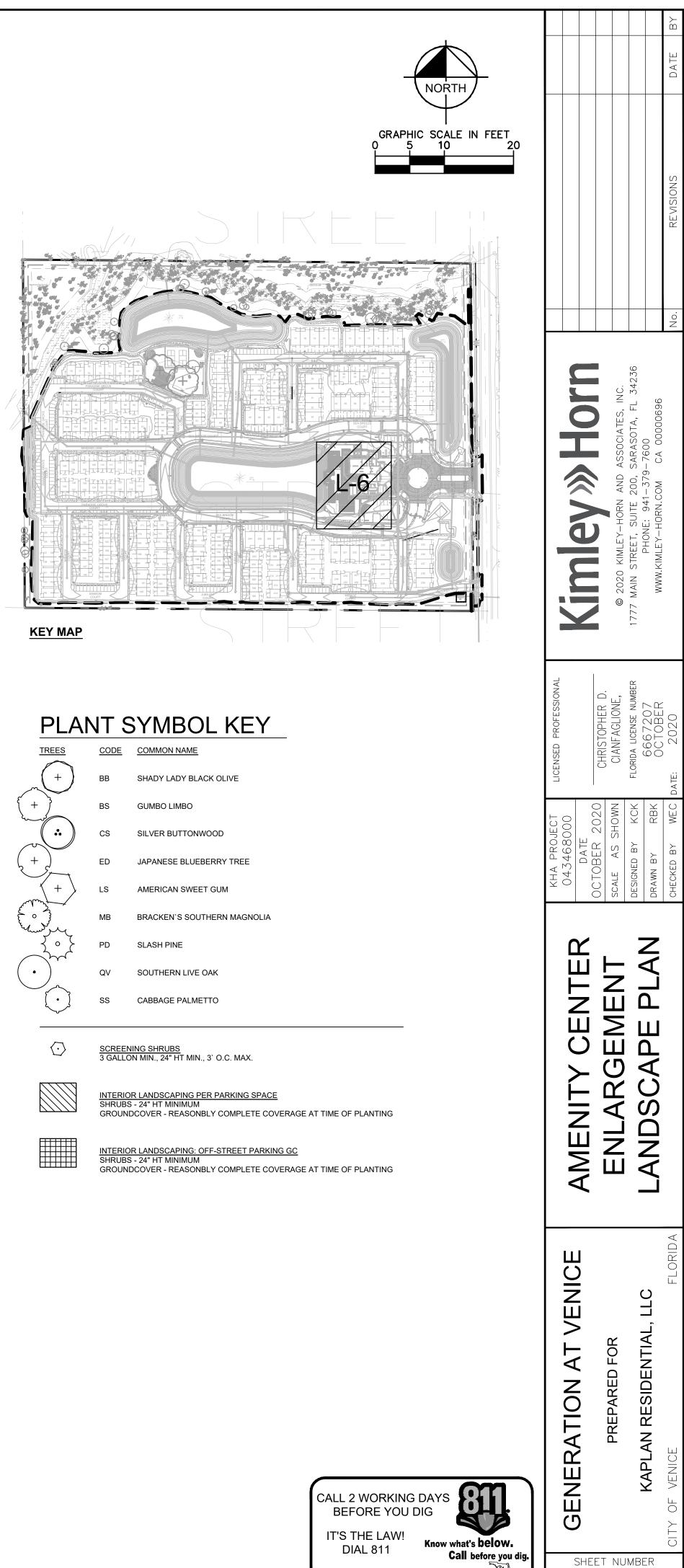
INTERIOR LANDSCAPING PER PARKING SPACE SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING

<u>INTERIOR LANDSCAPING: OFF-STREET PARKING GC</u> SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING



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CITY OF VENICE ALL FLORIDA REJUGNIAL, LLO	MBE •			RIDA LICENSE NUMBER	1777 Main Street, suite 200, sarasota, fl 34236 Pliant, 244-270 2000			
FLORIDA FLORIDA CHECKED BY WEC DATE: 2020 No. REVISIONS	ĒR			000/20/ OCTOBER	WWW.KIMLEY-HORN.COM CA 00000696			
				2020		No.	REVISIONS	DATE BY





SUNSHINE STATE ONE CALL OF FLORIDA, INC.

of Florida, Inc. 👯

L-6

CODE LANDSCAPE SCHEDULE

TREES	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT
(+)	BB	28	BUCIDA BUCERAS 'SHADY LADY'	SHADY LADY BLACK OLIVE	FG
+)	BS	8	BURSERA SIMARUBA	GUMBO LIMBO	FG
	CS	19	CONOCARPUS ERECTUS SERICEUS	SILVER BUTTONWOOD	FG
	ED	27	ELAEOCARPUS DECIPIENS	JAPANESE BLUEBERRY TREE	FG
+	LS	17	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEET GUM	FG
	MB	31	MAGNOLIA GRANDIFLORA `BBB`	BRACKEN'S SOUTHERN MAGNOLIA	FG
	PD	28	PINUS ELLIOTTI DENSA	SLASH PINE	FG
•	QV	84	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	FG
\bigcirc	SS	15	SABAL PALMETTO	CABBAGE PALMETTO	FG
$\langle \cdot \rangle$		<u>NING SH</u> ON MIN.,	<u>RUBS</u> 24" HT MIN., 3` O.C.	112	
	SHRUB GROUN	S - 24" H IDCOVEF ETE CO\	SCAPING PER PARKING SPACE T MINIMUM R - REASONBLY /ERAGE AT TIME OF	1,713 SF	

<u>CONT</u>	CAL	<u>HT</u>
FG	3" CAL MIN	10` HT
FG	5" CAL MIN	14` HT
FG	3" CAL MIN, O.A., 3-STEM MIN	10` HT
FG	3" CAL MIN	10` HT
FG	3" CAL MIN	10` HT
FG	3" CAL MIN	10` HT
FG	3" CAL MIN	10` HT
FG	3" CAL MIN	10` HT
FG		10`-18`

-

INTERIOR LANDSCAPING: OFF-STREET PARKING GC 5,100 SF SHRUBS - 24" HT MINIMUM GROUNDCOVER - REASONBLY COMPLETE COVERAGE AT TIME OF PLANTING

GRAND ENTRY LIGHTING FIXTURE FIXTURE: (DOUBLE) HALOPHANE-GRANVILLE BLACK/BLACK BRACKET: DECORATIVE DOUBLE BRACKET TENON MOUNTED ARM

POLE: BLACK COLUMBIA CONCRETE POLE, TENON MOUNT, 15'-9" MOUNTING HEIGHT

RESIDENTIAL STREET LIGHTING FIXTURE FIXTURE: HALOPHANE-GRANVILLE BLACK/BLACK BRACKET: N/A (POST-TOP) POLE: BLACK TAPERED CONCRETE POLE, TENON MOUNT, 15'-6" MOUNTING HEIGHT









<u>REMARKS</u>

Γ ΜΙΝ SPECIMEN ΓΜΙΝ

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8` CT VARIES. H.O. FULLY REGENERATED

MAIN LOOP ROADWAY LIGHTING FIXTURE FIXTURE: HALOPHANE - BERN BRACKET: 6' TENON MOUNTED ARM

POLE: BLACK OCTAGONAL CONCRETE POLE, TENON MOUNT, 30' MOUNTING HEIGHT



1	CALL 2 WORKING BEFORE YOU	
	IT'S THE LAW! DIAL 811	Know what's below. Call befor <u>e</u> you d
	SUNSHINE STATE ONE	

LANDSCAPE SPECIFICATIONS

1. SCOPE OF WORK

- 1.1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THESE PLANS.
- 1.2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.
- 1.3. WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS.

2. PROTECTION OF EXISTING AND PROPOSED SITE ELEMENTS

- 2.1. PROTECT ALL EXISTING SITE ITEMS, ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.
- 2.2. MAINTAIN ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- 2.3. WHERE APPLICABLE, SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE APPROPRIATE REGULATORY AGENCY STANDARDS UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, INDEX 102-600.
- 2.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO CONSTRUCTION ACTIVITIES. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UTILITIES IS APPROXIMATE. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR; REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING WHEN ANY CONFLICT BETWEEN UTILITIES AND THESE PLANS EXIST PRIOR TO PLANTING.
- 2.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO PLANT MATERIAL EXISTING OR OTHERWISE. THIS SHALL INCLUDE COMPACTION AND SPILLING OF ANY DELETERIOUS MATERIALS WITHIN THE DRIP-LINE OF EXISTING TREES TO REMAIN. PLANT MATERIAL KILLED OR DAMAGED THAT IS MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED WITH LIKE SIZE AND KIND TO THE SATISFACTION OF THE OWNER OR REGULATORY AGENCY AT THE COST TO THE CONTRACTOR.
- 2.6. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

3. SUBMITTALS

3.1. SUBMIT MATERIAL SAMPLES LISTED BELOW FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

PLANTS ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY	MATERIAL MULCH SOIL MIXTURE PLANTS	SAMPLE SIZE ONE (1) GALLON PLASTIC BAG ONE (1) GALLON PLASTIC BAG ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)
PLANTS ONE (1) OF EACH VARIETY (OR TAGGED IN NORSERY	PLAN15	ONE (I) OF EACH VARIETT (OR TAGGED IN NORSERT

3.2. SUBMIT TESTING RESULTS OF SOIL MIXTURE AS PER SECTION 6 BELOW.

4. PLANT MATERIALS

- 4.1. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS INDICATED ON THE DRAWINGS AND SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE LANDSCAPE ARCHITECT AND OWNER.
- 4.2. ALL TREE SPECIES INSTALLED SHALL BE MATCHED IN SIZE AND SHAPE UNLESS NOTED OTHERWISE.
- PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, UPON DELIVERY TO THE SITE, 43 DURING PROGRESS OF THE WORK AND/OR AFTER COMPLETION. REJECTED PLANTS SHALL BE REMOVED AND REPLACED IMMEDIATELY.

5. DIGGING AND HANDLING

- 5.1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. NO PLANT MATERIAL SHALL BE HANDLED BY STEMS.
- 6. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)
- 6.1. TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:
- 6.2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- 6.3. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS. STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.
- 6.4. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 6.5. PLANT TREES IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

7. WATER

- 7.1. PROVIDE WATER NECESSARY FOR PLANTING ESTABLISHMENT AND MAINTENANCE. WATER SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS.
- 7.2. WATERING/IRRIGATION RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

8. FERTILIZER

- 8.1. PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED. 8.2. FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.
- 9. MULCH
- 9.1. MOISTEN MULCH MATERIAL AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF THREE (3) INCHES. CONTRACTOR SHALL CLEAR MULCH FROM WITHIN A SIX (6) INCH RADIUS AROUND TRUNK / STEM FLARE. MULCH SHALL BE "FLORIMULCH", EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE
- 9.2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH PLANTING BED AND TREE RING (SIX (6) FOOT DIAMETER MINIMUM).

10. CONTAINER GROWN STOCK

10.1. CONTAINER GROWN PLANTS SHALL HAVE BEEN GROWN IN IT'S CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN

REMOVED FROM THE CONTAINER.

- 10.2. INSUFFICIENT OR POORLY STRUCTURED ROOT SYSTEMS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 10.3. ROOTS PLUS GROWER (RPG) PRODUCTS SHALL BE USED WHERE SPECIFIED.

11. MATERIALS LIST

11.1. ALL QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL CONFIRM ALL QUANTITIES PER PLAN PRIOR TO BIDDING AND CONSTRUCTION.

12. FINE GRADING

- 12.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING WHICH CONSISTS OF FINAL FINISHED GRADING (INCLUDING ADDITIONAL SOIL MIXTURE AS NEEDED) FOR LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. FINISH GRADE SHALL ACCOUNT FOR THICKNESS OF SOD AND/OR MULCH DEPTH.
- 12.2. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

13. PLANTING PROCEDURES

- 13.1. CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. REMOVE ALL MORTAR. CEMENT, AND TOXIC MATERIAL FROM THE SURFACE OF ALL PLANT BEDS. DO NOT MIX THESE MATERIALS WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- 13.2. LOCATE, MAINTAIN AND PROTECT ALL UTILITIES ABOVE AND BELOW GROUND. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 13.3. NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING OVERHEAD POWER LINES IN ACCORDANCE WITH SETBACK REQUIREMENTS OF FPL'S "RIGHT TREE, RIGHT PLACE" PROGRAM. CONSULT THE UNIVERSITY OF FLORIDA'S "TREES AND POWER LINE" WEBSITE FOR TREE SIZE CATEGORIES.
- 13.4. NOTIFY LANDSCAPE ARCHITECT IN WRITING IMMEDIATELY IF CONFLICT(S) EXIST WITH PROPOSED TREE LOCATIONS AND EXISTING / PROPOSED LIGHT POLES. TREES INSTALLED IN CONFLICT WITH LIGHT POLES ARE SUBJECT TO RELOCATION AT THE EXPENSE OF THE CONTRACTOR.
- 13.5. REMOVE ALL EXISTING AND IMPORTED DELETERIOUS MATERIAL AND SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE AS NEEDED WITH CLEAN SOIL MIXTURE.
- 13.6. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
- 13.7. EXCAVATE ALL PLANTING PITS IN ACCORDANCE WITH LANDSCAPE DETAILS PROVIDED. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. IF POOR DRAINAGE EXISTS, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN WRITING. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. CONTRACTOR SHALL ENSURE ELIMINATION OF ALL AIR POCKETS AROUND ROOTS.
- 13.8. SET TREES AND SHRUBS STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).
- 13.9. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM UPPER ONE THIRD (1/3) OF ROOT BALLS.
- 13.10. ALL SUCKER GROWTH AND BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT IN ACCORDANCE WITH ANSI A-300.
- 13.11. SHRUBS AND GROUND COVER PLANTS SHALL BE SPACED IN ACCORDANCE WITH THE DRAWINGS, LANDSCAPE DETAILS AND AS INDICATED ON THE PLANT LIST.
- 13.12. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN A PLUMB AND UPRIGHT POSITION.
- 13.13. FAILURE TO FOLLOW THE ABOVE PLANTING PROCEDURE SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

14. LAWN SODDING

- 14.1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING NECESSARY TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER
- 14.2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS TO A MINIMUM DEPTH OF THREE (3) INCHES. PROVIDE ONE (1) INCH OF TOPSOIL ACROSS ENTIRE LAWN BED AND MIX THROUGHLY INTO TOP FOUR (4) INCHES OF SOIL TO BRING THE GROUND TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL TOPSOIL AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.
- 14.3. HAND RAKE LAWN BED UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY. 14.4. SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS
- 14.5. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- 14.6. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS.
- 14.7. IMMEDIATELY FOLLOWING SOD LAYING, ROLL LAWN AREAS WITH A LAWN ROLLER AND THEN THOROUGHLY IRRIGATED.
- 14.8. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- 14.9. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS. THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY EXCESSIVE HEAT AND MOISTURE.
- 14.10. WITHIN THE CONTRACT LIMITS. PRODUCE AND MAINTAIN A DENSE, WELL ESTABLISHED LAWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

15. CLEANUP

15.1. UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

16. PLANT MATERIAL MAINTENANCE

UNLESS SPECIFICALLY NOTED OTHERWISE.

16.1. ALL PLANT MATERIAL SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) AS NECESSARY TO INSURE HEALTHY AND VIGOROUS GROWING CONDITIONS BY THE CONTRACTOR UPON DELIVERING TO THE SITE AND UNTIL FINAL ACCEPTANCE OF WORK.

17. FINAL INSPECTION AND ACCEPTANCE OF WORK

17.1. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE PER MANUFACTURER RECOMMENDATIONS. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

SHALL BE CORRECTED AT THE COST OF THE CONTRACTOR.

18. WARRANTY

- (1) YEAR WARRANTY.
- GROWTH.

19. ABBREVIATIONS

3&B -	BALLED AND BURLAPPED
3R -	BARE ROOT
CAL -	CALIPER
CT -	CLEAR TRUNK
DBH -	DIAMETER AT BREAST HEIGHT
=G -	FIELD GROWN
-TG -	FULL TO GROUND
GW -	GREY WOOD
- OH	HARDENED OFF
DA -	OVERALL HEIGHT
RPG -	ROOTS PLUS GROWER

17.2. PROVIDE WATERING/IRRIGATION SCHEDULE FOR ALL PLANT MATERIAL TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

17.3. UPON COMPLETION OF ALL WORK, A FINAL INSPECTION SHALL BE PERFORMED BY THE OWNER AND/OR OWNER'S REPRESENTATIVE. ALL PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT SHALL BE INSPECTED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. ANY ITEMS FOUND TO NOT BE IN COMPLIANCE

18.1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION AND ACCEPTANCE OF THE WORK BY THE OWNER AND/OR OWNER'S REPRESENTATIVE.

18.2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION THROUGHOUT THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED, PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER. ANY REPLACED PLANT MATERIAL SHALL BE SUBJECT TO A NEW ONE

18.3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT

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