

Agenda

<u>WINDERMERE TREE BOARD</u> Chair: Susan Carter Secretary: Frank Krens Treasurer: Pamela Schrimsher Leslie Brabec Council Liaison: Tom Stroup

Agenda

May 18, 2023 10:00 AM

COMMUNITY CONFERENCE ROOM 614 MAIN STREET; BUILDING 100 WINDERMERE, FL 34786

PLEASE TURN OFF ALL CELL PHONES AND PAGERS

PLEASE NOTE: IN ACCORDANCE WITH F.S. 286.26: Person with disabilities needing assistance to participate in any such proceedings should contact the Office of the Clerk at least 48 hours beforehand at (407) 876-2563.

Pursuant to Resolution No. 2005-12 adopted on December 13, 2005, the following Civility Code shall govern all proceedings before the Town of Windermere Windermere Tree Board:

1. All electronic devices, including cell phones and pagers. shall be either turned off or otherwise silenced.

- 2. Prolonged conversation shall be conducted outside Council meeting hall.
- 3. Whistling, heckling, gesturing, loud conversations, or other disruptive behavior is prohibited.

4. Only those individuals who have signed the speaker list and/or/who have been recognized by the Mayor (or Chair) may address comments to the Council.

- 5. Comments at public hearings shall be limited to the subject being considered by the Council
- 6. Comments at Open Forums shall be directed to Town issues.
- 7. All public comments shall avoid personal attacks and abusive language
- 8. No person attending a Windermere Tree Board meeting is to harass, annoy, or otherwise disturb any other person in the room.

Any member of the public whose behavior is disruptive and violates the Town of Windermere Civility Code is subject to removal from the Windermere Tree Board meeting by an officer and such other actions as may be appropriate. PLEASE NOTE: IN ACCORDANCE WITH F.S. 286.0105: Any person who desires to appeal any decision at this meeting will need a record of this proceeding. For this, such person may need to ensure that a verbatim record of such proceeding is made which includes the

AGENDA

Mission Statement: Augment community awareness of our Urban Forest,provide education regarding the benefits of trees and a commitment to protect, preserve and proliferate our community's Urban Forest, and beautification of our Windermere Parks and Recreation Areas.

1. THE MEETING IS CALLED TO ORDER BY THE CHAIR

2. OPEN FORUM / PUBLIC COMMENT (3-Minute Limit)

3. OLD BUSINESS

a. Other Items for Consideration

i. Approved Trees to be Planted

4. NEW BUSINESS

a. Minutes

i. Windermere Tree Board Meeting Minutes - March 23, 2023 (Attachment - Board Option)

b. Membership

i. Leslie Brabec Resignation (Attachment)

c. Other Items for Consideration

ii. Windermere Tree Board Final Recommendation on Downtown Windermere Properties 500 Block Redevelopment Project (Attachment)

iii. Future direction of Windermere Tree Board

4. ADJOURN



Windermere Tree Board March 23, 2023

Mission Statement: Augment community awareness of our Urban Forest, provide education regarding the benefits of trees and a commitment to protect, preserve and proliferate our community's Urban Forest. Beautify our Windermere Parks and Recreation Areas.

Tree Board Members: Susan Carter (Chairman), Frank Krens (Recording Sec.), Leslie Brabec, Pamela Schrimsher; Town Liaison: TBD

1. THE MEETING IS CALLED TO ORDER

Tree Board Chairman Susan Carter called the meeting to order at 9:07am in the Windermere Town Hall at 520 Main Street, Windermere, FL 34786. The requirement for a quorum was met.

Participants:

- Tree Board Susan Carter, Leslie Brabec, Pamela Schrimsher, and Frank Krens
- TOW Public Works Tonya Elliott-Moore, Public Works Director

2. OPEN FORUM / PUBLIC COMMENT - None

3. NEW BUSINESS

a. **Minutes** – Pam Schrimsher moved to approve the February minutes as written, Leslie Brabec seconded and they were approved 4/0.

b. Plant Grant

Susan Carter reviewed features of grant programs hosted by cities Winter Park and Mount Dora. Tonya Elliott-Moore recommended that Tree Board draft a Tree Policy for approval by Town Council. Tonya said that a "policy" would be more amenable to update and revision than an ordinance or other more formal document. The Tree Policy would guide tree plantings, maintenance, and other tree efforts. It would also be useful for public education and communication. Tonya recommended that the Tree Policy:

- have a catchy title, like "Protect Our Canopy", to get attention and help promote public buy-in,
- include a description, vision, and mission,
- have two distinct parts:
 - o Town Property / Street Trees
 - o Residential Trees / Grant Program,
- be reviewed by Town Planner Brad Cornelius and possibly the Town Attorney,
- obtain Town Council approval before implementation.

There was discussion on how to proceed to generate a Tree Policy. It was agreed to use the following process, which would involve all Tree Board members while complying with the Florida Sunshine Law:

- Generate a rough draft. Pam Schrimsher offered to so this.

MINUTES - DRAFT

- Distribute the draft along with the agenda for the next meeting, giving time for Tree Board Members to review and work on the draft individually.
- Use the next meeting as a workshop to further develop the Policy together as a Board.

Tonya Elliott-Moore recommended that we start with ideas from Winter Park's tree policy rather than starting from scratch. Frank Krens offered to forward a soft copy of the 2006 Windermere Urban Management Plan to all present in the meeting as a potential source of ideas.

Tonya reminded Tree Board members that the Town has budget to plant and maintain trees on Town property and that the Tree Board can draw on this budget to plant trees on Town property without waiting for development of the Tree Policy.

c. Replacement Planting at Central Park

Chairman Susan Carter recommended planting of two live oaks or nuttall oaks in open space along the right-of-way on Oakdale Street by Central Park and two or three cypress or nuttall oaks near the tennis courts on Main Street. The two trees for Central Park would fill the large gap where a mature live oak was lost in the last hurricane. Leslie Brabec noted that there is a small, dead (~4 ft tall) pine tree in Central Park.

Pam Schrimsher made a motion that we move ahead to have two live oak or nuttall oak trees planted by Central Park. Leslie Brabec seconded, and the motion passed 4/0.

d. Historic Citrus Grove

Following up on the decision made at the February meeting to treat the trees in the historic grove, Susan Carter reported that the first treatment had been done. During the meeting, Tonya Elliott-Moore called Public Works Operations Manager, Travis Mathias and asked him to take photos of the trees in their existing state to compare with photos to be taken later as the treatment progresses.

e. Three Trees near Entrance to 5th Avenue Parking Lot

Frank Krens noted that the two oaks either side of the entrance to the 5th Avenue parking lot and the oak that was moved to the berm are surviving and seem to be doing well. Susan Carter said she still has concerns, that the trees were not high-quality specimens when planted, and that they continue to have issues with rooting and otherwise.

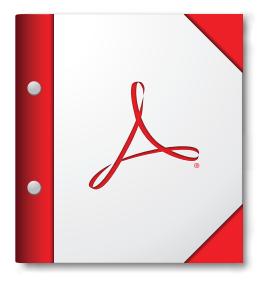
Pam Schrimsher made a motion that Tree Board get quotes for feeding and pruning of those three trees. Frank Krens Seconded and the motion passed 4/0.

f. TOW Acceptable Plant List

There was discussion about updating the Town's Acceptable Plant List. There was consensus that the list should include "Florida Friendly" plants rather than just "Florida Native". Susan Carter offered to provide input to the Town Planner for update.

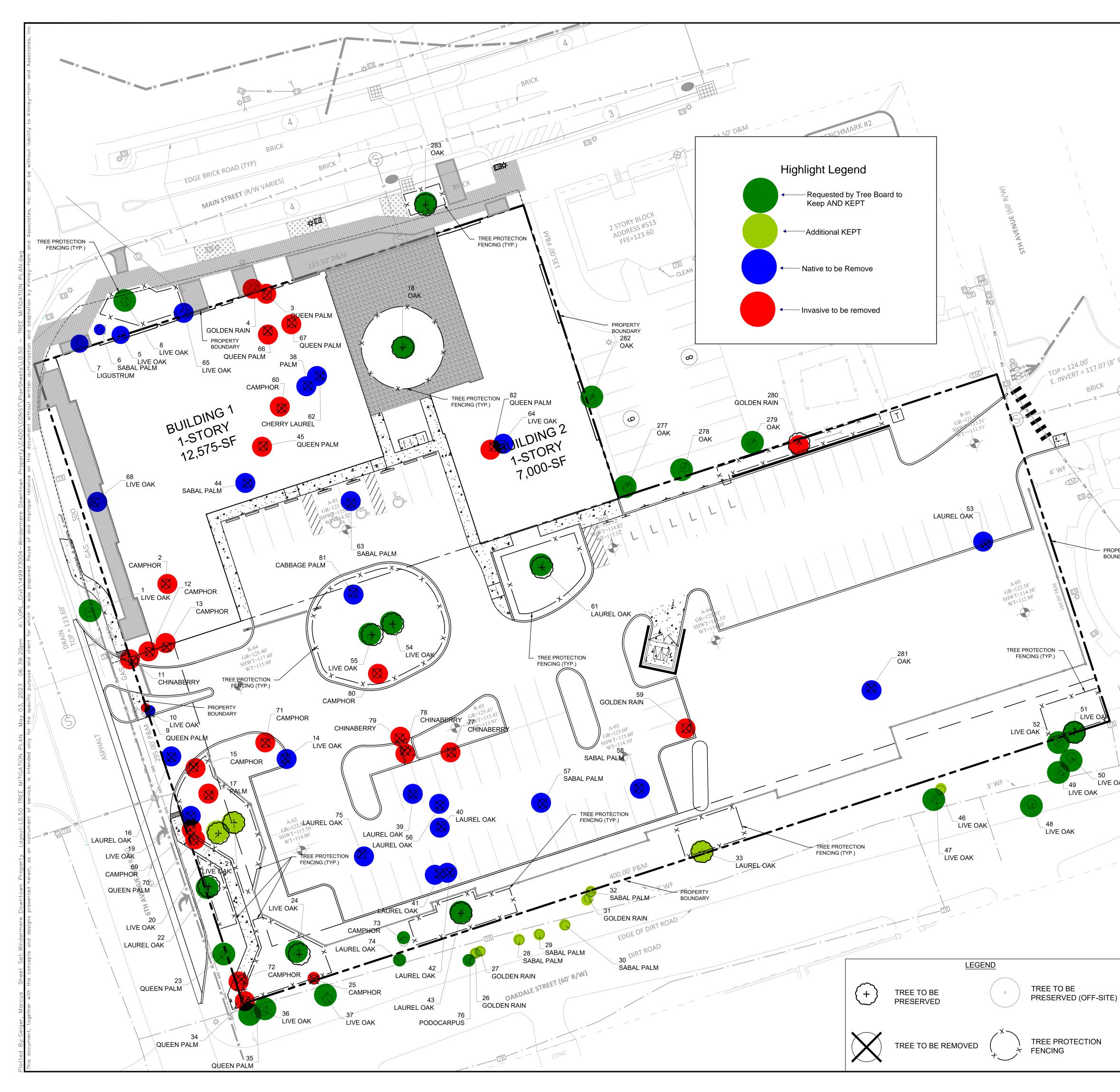
5. ADJOURN – With no further business, the meeting was adjourned at 10:39am.

6. NEXT MEETING - April 20, 9:30am

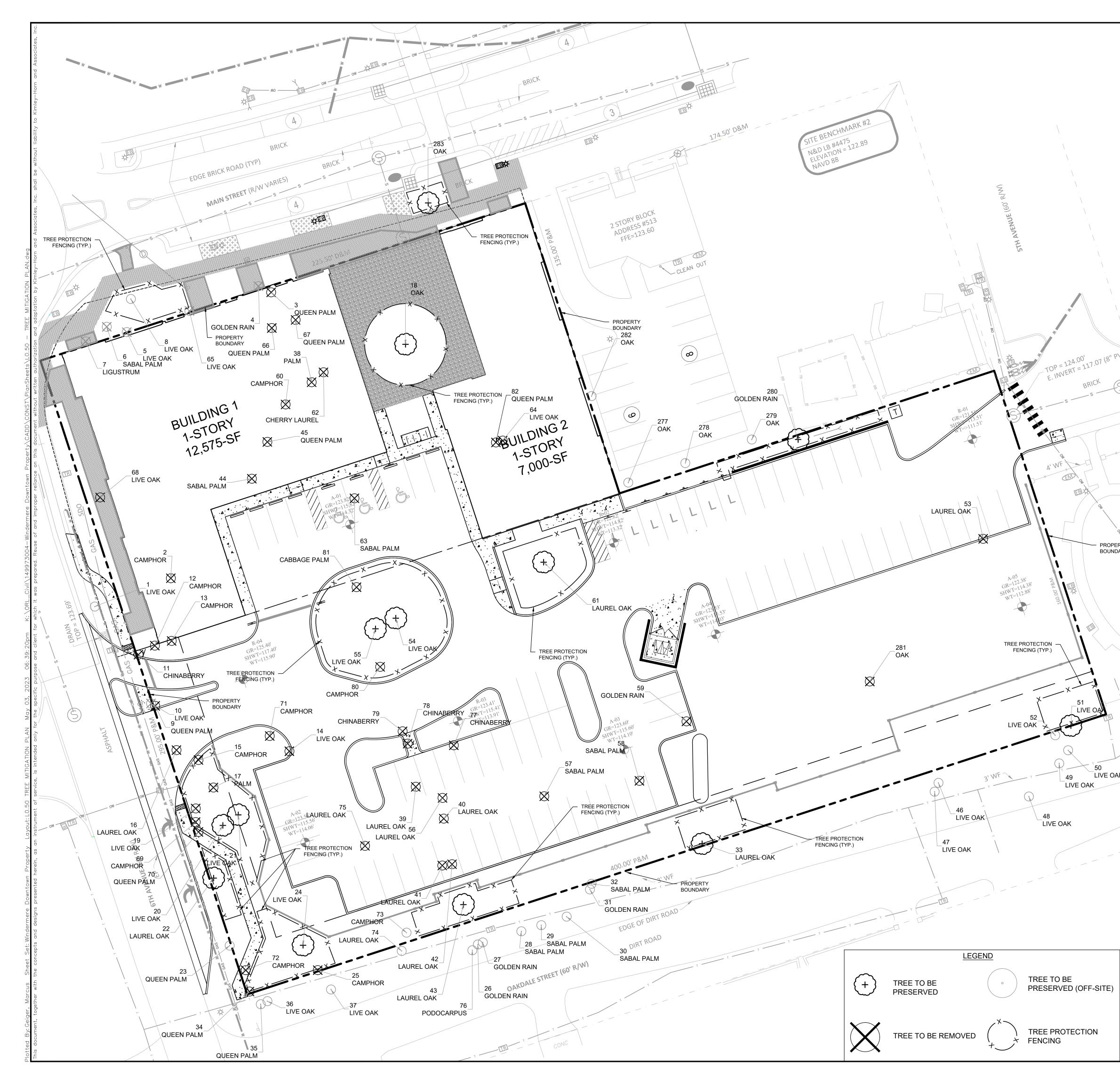


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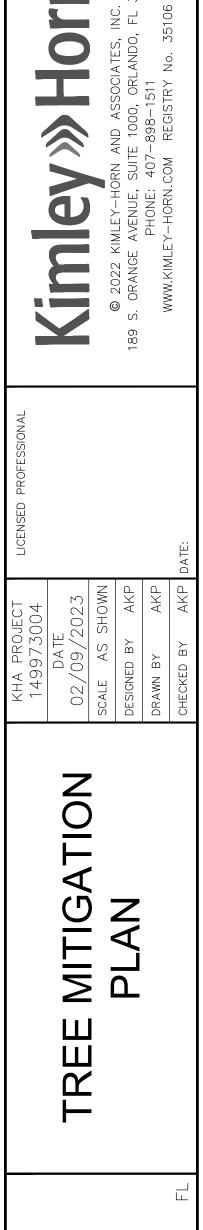


RAPHIC SCALE IN FEET

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5	LIVE OAK	23	REMOVE	PROP. BUILDING	OFF-SITE OFF-SITE
6	SABAL PALM	<u>29</u> 19	REMOVE		OFF-SITE OFF-SITE
7	LIGUSTRUM	19	REMOVE	PROP. BUILDING	OFF-SITE
8	LIVEOAK	25	PRESERVE		OFF-SITE
9	QUEEN PALM	8	REMOVE	INGRESS/EGRESS	ONSITE
10	QUEEN PALM	9	REMOVE	INGRESS/EGRESS	OFF-SITE
10	CHINABERRY	20	REMOVE	INVASIVE	ONSITE
11	CAMPHOR	16	REMOVE	INVASIVE	ONSITE
13	CAMPHOR	10	REMOVE	INVASIVE	ONSITE
13	LIVE OAK	37	REMOVE	PROPOSED PARKING	ONSITE
15	CAMPHOR	36	REMOVE	INVASIVE	ONSITE
16	LAUREL OAK	31	REMOVE	INGRESS/EGRESS	ONSITE
17	PALM	10	REMOVE	PROPOSED WALL	ONSITE
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19	LIVEOAK	28	REMOVE	PROP. SIDEWALK	ONSITE
20	LIVEOAK	29	PRESERVE	PROPOSED WALL	ONSITE
21	LIVEOAK	21	PRESERVE	PROPOSED WALL	ONSITE
22	LAUREL OAK	23	PRESERVE	-	ONSITE
23	QUEEN PALM	8	PRESERVE		OFF-SITE
24	LIVEOAK	34	PRESERVE	T	ONSITE
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28	SABAL PALM	15	PRESERVE	- 1	OFF-SITE
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30	SABAL PALM	18	PRESERVE	-	OFF-SITE
31	GOLDEN RAIN	10	PRESERVE	INVASIVE	OFF-SITE
32	SABAL PALM	17	PRESERVE	-	OFF-SITE
33	OAK	36	PRESERVE	-	ONSITE
34	QUEEN PALM	10	REMOVE	PROP. SIDEWALK	ONSITE
35	QUEEN PALM	9	PRESERVE	-	OFF-SITE
36	LIVEOAK	25	PRESERVE	-	OFF-SITE
37	LIVEOAK	29	PRESERVE	-	OFF-SITE
38	PALM	10	REMOVE	PROP. BUILDING. DEAD.	ONSITE
39	LAUREL OAK	39	REMOVE	PROPOSED PARKING	ONSITE
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55	ΟΑΚ	48	PRESERVE	-	ONSITE
56	LAUREL OAK	24	REMOVE	PROPOSED PARKING	ONSITE
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58	SABAL PALM	15	REMOVE	PROPOSED TANK	ONSITE
59	GOLDEN RAIN	10	REMOVE	INVASIVE	ONSITE
60	CAMPHOR	32	REMOVE	INVASIVE	ONSITE
61	LAUREL OAK	22	PRESERVE	-	ONSITE
62	CHERRY LAUREL	14	REMOVE	PROP. BUILDING	ONSITE
63	SABAL PALM	18	REMOVE	PROPOSED PARKING	ONSITE
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65	ΟΑΚ	48	REMOVE	PROP. BUILDING	OFF-SITE
66	QUEEN PALM	9	REMOVE	PROP. BUILDING	ONSITE
67	QUEEN PALM	4	REMOVE	PROP. BUILDING	ONSITE
68	ОАК	25	REMOVE	PROP. SIDEWALK	ONSITE
69	CAMPHOR	10	REMOVE	INVASIVE	ONSITE
70	QUEEN PALM	7	REMOVE	PROP. SIDEWALK	ONSITE
71	CAMPHOR	32	REMOVE	PROP. CURB	ONSITE
72	CAMPHOR	12	REMOVE	PROP. SIDEWALK	ONSITE
73	CAMPHOR	14	PRESERVE	INVASIVE	OFF-SITE
74	LAUREL OAK	17	PRESERVE	-	OFF-SITE
75	LAUREL OAK	18	REMOVE	PROPOSED PARKING	ONSITE
76	PODOCARPUS	13	PRESERVE	-	OFF-SITE
77	CHINABERRY	6	REMOVE	PROPOSED PARKING	ONSITE
78	CHINABERRY	23	REMOVE	PROPOSED PARKING	ONSITE
79	CHINABERRY	6	REMOVE	PROP. SIDEWALK	ONSITE
80	CAMPHOR	6	REMOVE	PROP. CURB	ONSITE
81	SABAL PALM	13	REMOVE	PROP. CURB	ONSITE
82	QUEEN PALM	9	REMOVE	PROP. BUILDING	ONSITE
277	ΟΑΚ	35	PRESERVE		OFF-SITE
278	ΟΑΚ	29	PRESERVE		OFF-SITE
279	ΟΑΚ	36	PRESERVE		OFF-SITE
280	GOLDEN RAIN	38	REMOVE	PROP. WALL/PARKING	ONSITE
281	ΟΑΚ	29	REMOVE	PROP. SEPTIC	ONSITE
	OAK	36	PRESERVE		OFF-SITE

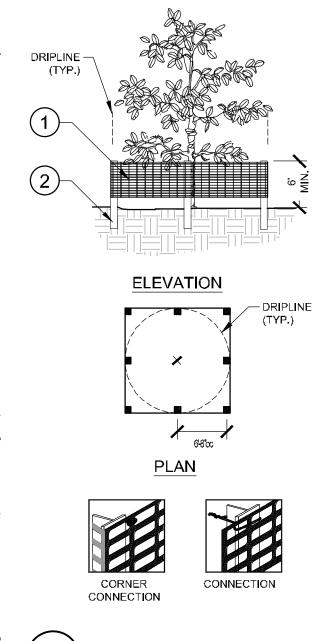




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	, Inc. shall be without liability to Kimley-Horn and Associates,
perty\CADD\CONST\PlanSheets\L0.50 - TREE MITIGATION PLAN.dwg	aptation by Kimley-Horn and Associates
K: \ORL_Civil \149973004-Windermere Downtown Propert	which it was prepared. Reuse of and improper reliance on this document without written authorization and add
1 TREE MITIGATION CHART May 03, 2023 06: 20: 43pm	is an instrument of service, is intended only for the specific purpose and client for wt
cus Sheet Set: Windermere Downtown Property Layout: L0.51 TREE M	with the concepts and designs presented herein, as an instrument of
y: Geiger, Marc	ment, together

				TREE MITIGATION FUND C	ALCULATION		
Tree Number	Species	DBH	Status	Reason	Location	REPLACEMENT STATUS	INCHES REQUIRED FOR PAYMENT
2	CAMPHOR	30	REMOVE	PROP. BUILDING	ONSITE	REPLACED	
3	QUEEN PALM	9	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
9	QUEEN PALM	8	REMOVE	INGRESS/EGRESS	ONSITE	PAYMENT REQ'D	
14	LIVE OAK	37	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
16	LAUREL OAK	31	REMOVE	INGRESS/EGRESS	ONSITE	REPLACED	
17	PALM	10	REMOVE	PROPOSED WALL	ONSITE	PAYMENT REQ'D	
19	LIVE OAK	28	REMOVE	PROP. SIDEWALK	ONSITE	REPLACED	
20	LIVE OAK	29	REMOVE	PROPOSED WALL	ONSITE	REPLACED	
21	LIVE OAK	21	REMOVE	PROPOSED WALL	ONSITE	REPLACED	
34	QUEEN PALM	10	REMOVE	PROP. SIDEWALK	ONSITE	PAYMENT REQ'D	
38	PALM	10	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
39	LAUREL OAK	39	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
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42	LAUREL OAK	12	REMOVE	PROPOSED PARKING	ONSITE	PAYMENT REQ'D	
43	LAUREL OAK	14	REMOVE	PROPOSED WALL	ONSITE	REPLACED	
44	SABAL PALM	21	REMOVE	PROP. BUILDING	ONSITE	REPLACED	
45	QUEEN PALM	10	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
53	OAK	38	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
56	LAUREL OAK	24	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
57	SABAL PALM	11	REMOVE	PROPOSED PARKING	ONSITE	PAYMENT REQ'D	
58	SABAL PALM	15	REMOVE	PROPOSED TANK	ONSITE	REPLACED	
62	CHERRY LAUREL	14	REMOVE	PROP. BUILDING	ONSITE	REPLACED	
63	SABAL PALM	18	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
64	OAK	48	REMOVE	PROP. BUILDING	ONSITE	REPLACED	
66	QUEEN PALM	9	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
67	QUEEN PALM	4	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
68	OAK	25	REMOVE	PROP. SIDEWALK	ONSITE	REPLACED	
70	QUEEN PALM	7	REMOVE	PROP. SIDEWALK	ONSITE	PAYMENT REQ'D	
71	CAMPHOR	32	REMOVE	PROP. CURB	ONSITE	REPLACED	
72	CAMPHOR	12	REMOVE	PROP. SIDEWALK	ONSITE	PAYMENT REQ'D	
75	LAUREL OAK	18	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
77	CHINABERRY	6	REMOVE	PROPOSED PARKING	ONSITE	PAYMENT REQ'D	
78	CHINABERRY	23	REMOVE	PROPOSED PARKING	ONSITE	REPLACED	
79	CHINABERRY	6	REMOVE	PROP. SIDEWALK	ONSITE	PAYMENT REQ'D	
80	CAMPHOR	6	REMOVE	PROP. CURB	ONSITE	PAYMENT REQ'D	
81	SABAL PALM	13	REMOVE	PROP. CURB	ONSITE	REPLACED	
82	QUEEN PALM	9	REMOVE	PROP. BUILDING	ONSITE	PAYMENT REQ'D	
280	GOLDEN RAIN	38	REMOVE	PROP. WALL/PARKING	ONSITE	REPLACED	
281	ΟΑΚ	29	REMOVE	PROP. SEPTIC	ONSITE	REPLACED	



- 1) 6'H "PERIMETER PLUS" CONSTRUCTION ENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR
- APPROVAL PRIOR TO INSTALLATION.) 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

- A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
- B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
- C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).
- D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

TREE PROTECTION FENCING L0.56 LELEVATION / PLAN

WORK.

ORIGINAL LOCATION. CONSTRUCTION WORK ON THE SITE. LINE.

(5) A TREE PROTECTION SIGN SHALL BE A MINIMUM OF TWO FEET WIDE BY THREE FEET HIGH CONSISTING OF DURABLE RIGID, PLASTIC OR METAL MATERIAL WITH NON FADING LETTERING, LEGIBLY PRINTED IN CHARACTERS A MINIMUM OF ONE AND ONE-HALF INCHES HIGH ON ITS FACE. TREE PROTECTION SIGNS AND BARRIERS ARE TO BE MAINTAINED THROUGH JOB COMPLETION OR AS OTHERWISE REQUIRED BY THE TOWN MANAGER OR HIS DESIGNEE. A MINIMUM OF ONE SIGN IS REQUIRED PER BARRIER. SIGN TEXT SHALL BE INCLUDE IN ENGLISH AND SPANISH AND SHALL READ:

TREE PROTECTION AREA

PROHIBITED WITHIN THIS AREA:

1.PARKING OF USE OF VEHICLES, EQUIPMENT OR MACHINERY. 2.STORAGE OR DUMPING OF ANY MATERIALS OR LIQUIDS. **3.CONSTRUCTION, EXCAVATION OR TRENCHING.**

AREA DE PROTECTION DE ÁRBOLES

PROHIBIDO DENTRO DE ESTA AREA:

1.APARCAR O USO DE VEHICULO, EQUIPAMIENTO, O MAQUINARIA. 2.ALMACENAR O TIRAR DE LIQUIDOS O MATERIALES. 3.CONSTRUCCIÓN, EXCAVACIÓN O ZANJAS.(6)UNLESS PRIOR APPROVAL IS GRANTED BY THE TOWN MANAGER OR HIS DESIGNEE, THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE DRIP-LINE OF A PROTECTED TREE OR WITHIN TEN FEET OF ITS TRUNK, WHICHEVER IS GREATER: (I) PARKING OR USE OF VEHICLES, EQUIPMENT OR MACHINERY, OR (II) STORING OR DUMPING ANY MATERIAL OF LIQUIDS, OR (III) CONSTRUCTION, EXCAVATION OR TRENCHING.

SEC. 5.01.17. - DEVELOPMENT SITE TREE PROTECTION STANDARDS.

(A)DURING CONSTRUCTION AND DEVELOPMENT, ALL REASONABLE STEPS NECESSARY TO PREVENT DESTRUCTION OR DAMAGE TO TREES AND NATIVE VEGETATION SHALL BE TAKEN. ALL TREE AND LANDSCAPE WORK SHALL BE GOVERNED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 SERIES AND THE BEST MANAGEMENT PRACTICES. UNLESS OTHERWISE AUTHORIZED BY A TREE REMOVAL PERMIT, TREES AND NATIVE VEGETATION DESTROYED OR RECEIVING MAJOR DAMAGE MUST BE REPLACED BY TREES AND VEGETATION OF EQUAL ENVIRONMENTAL VALUE, AS SPECIFIED BY THE TOWN MANAGER OR HIS DESIGNEE (PERMITTING AUTHORITY), BEFORE OCCUPANCY OR USE.

(B)APPROVED TREE REMOVAL PERMITS ARE TO BE POSTED ON SITE, LEGIBLE, AND VISIBLE FROM THE STREET PRIOR TO COMMENCEMENT AND THROUGHOUT COMPLETION OF THE

(C)DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED BY A TREE REMOVAL PERMIT NO EXCESS SOIL, ADDITIONAL FILL, EQUIPMENT, LIQUIDS, OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE DRIP LINE OF ANY TREE THAT IS REQUIRED TO BE PRESERVED IN ITS

(D)NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE AND NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE DURING CONSTRUCTION OR DEVELOPMENT. (E)UNLESS OTHERWISE AUTHORIZED BY THE TREE REMOVAL PERMIT, NO SOIL SHALL BE REMOVED FROM WITHIN THE DRIP LINE OF ANY TREE THAT IS TO REMAIN IN ITS ORIGINAL LOCATION. (F) PRIOR TO CONSTRUCTION, THE PERMIT APPLICANT IS REQUIRED TO HAVE THE FOLLOWING PROTECTIVE BARRIERS AND MEASURES PUT IN PLACE:

(1) ALL PROTECTIVE BARRIERS SHALL BE INSTALLED AND MAINTAINED FOR THE PERIOD OF TIME BEGINNING WITH THE COMMENCEMENT OF ANY LAND CLEARING OR BUILDING OPERATIONS AND ENDING WITH THE COMPLETION OF THE PERMITTED CLEARING OR BUILDING

(2) THE APPLICANTS FOR A TREE REMOVAL PERMIT SHALL, AT THE TIME OF APPLICATION. DESIGNATE AN ON-SITE REPRESENTATIVE FOR THE INSTALLATION AND MAINTENANCE OF ALL TREE AND SHRUB PROTECTIVE BARRIERS.

(3)THE CIRCUMFERENCE OF AN AREA TO BE PRESERVED SHALL BE PROTECTED DURING LAND DEVELOPMENT AND CONSTRUCTION BY PLACING TWO-INCH BY TWO-INCH WOOD STAKES A MAXIMUM OF 20 FEET APART AROUND THE TREE PROTECTION ZONE AND BY TYING FLUORESCENT RIBBON, SURVEY FLAGGING, ETC., FROM STAKE TO STAKE ALONG THE PERIMETER OF THE AREAS TO BE PRESERVED.

(4)WHEN PROTECTION OF INDIVIDUAL TREES IS REQUIRED, A PROTECTIVE BARRIER SHALL BE PLACED AROUND THE PERIMETER OF THE BASE AT A DISTANCE NOT LESS THAN THE DRIP

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TREE MITIGATION SPECIFICATIONS

REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.

A. GENERAL

1.	CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONING CODE, TREE PROTECTION (LATEST EDITION). WHICHEVER IS MORE STRINGENT SHALL APPLY.
2.	CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.

- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A
- 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.
- EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED 5. SURVEYOR.
- 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.
- 7. 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.
- 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.
- 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.
- TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR 10. INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
- 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. IRRIGATIÓN.
- 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.
- 3. 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.
- 4. 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.
- 6. 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
- 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. 5.
- 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. D. CLEARING
- 1. 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.
- 3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.

TYPICAL TREE MITIGATION NOTES

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

7.

E. TREE CANOPY PRUNING

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

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

3. 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)

4. 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".

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

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

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.

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 & FEET ABOVE FINISHED

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.

REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.

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

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.

F. FERTILIZATION

2.

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.

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

4. 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. 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. G. INSECTICIDE

7. NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.

8. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.

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

10. 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.

11. 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.

3. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

I. TREE REMOVALS

PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY 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 AFTER THE TREE PROTECTION FENCING IS INSTALLED.

3. ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND 6" BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMP

REMOVED BY CONTRACTOR.

4. ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE (3) INCHES. ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.

- 5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
- 6. TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTRACTORS. THE QUALIFIED ARBORIST SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN.
- TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.
- L. TOPSOIL
- 10. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
- 11. ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
- 12. TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
- 13. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM BOGS OR MARSHES.
- 14. 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 CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
- IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE, THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

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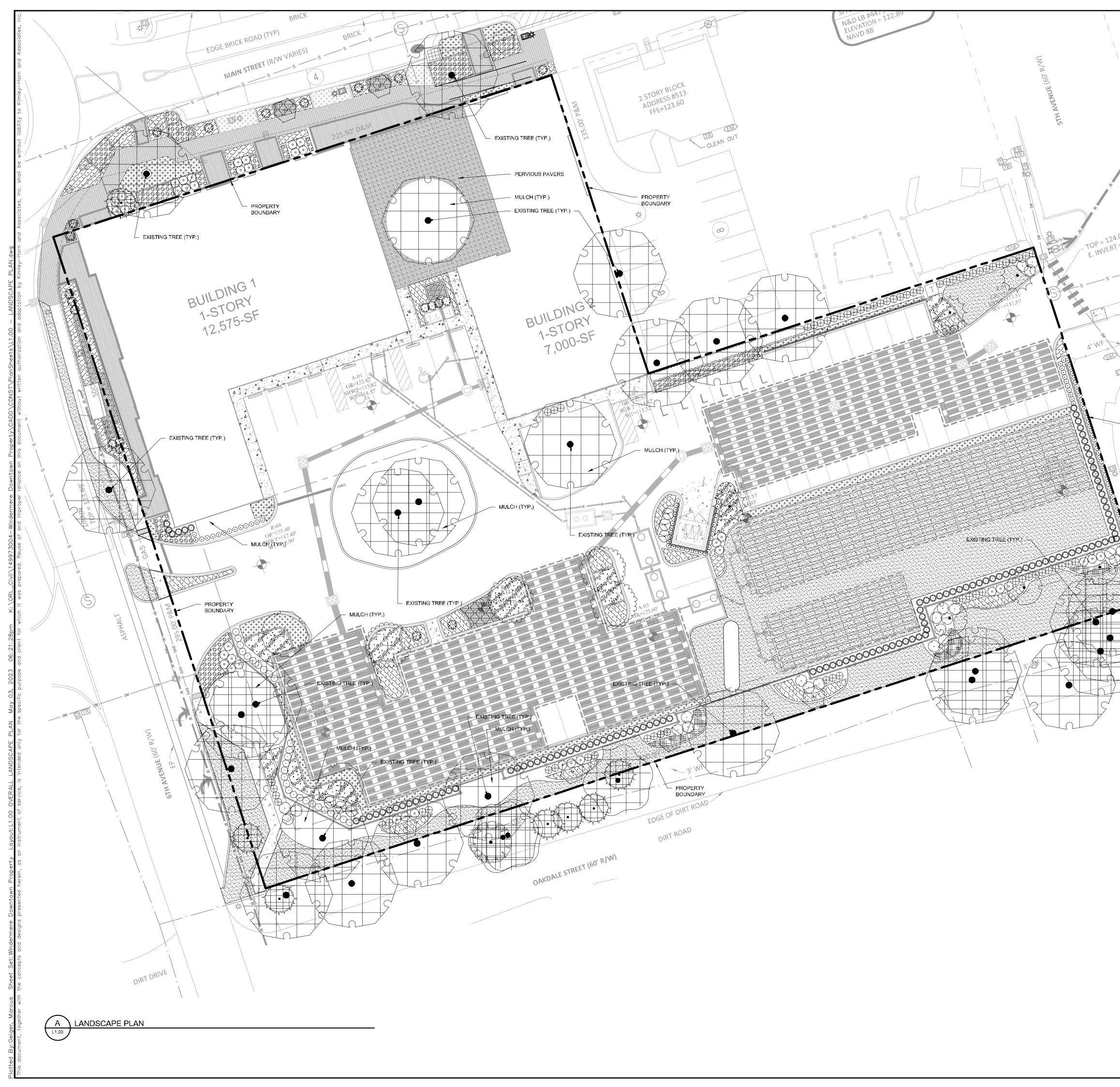
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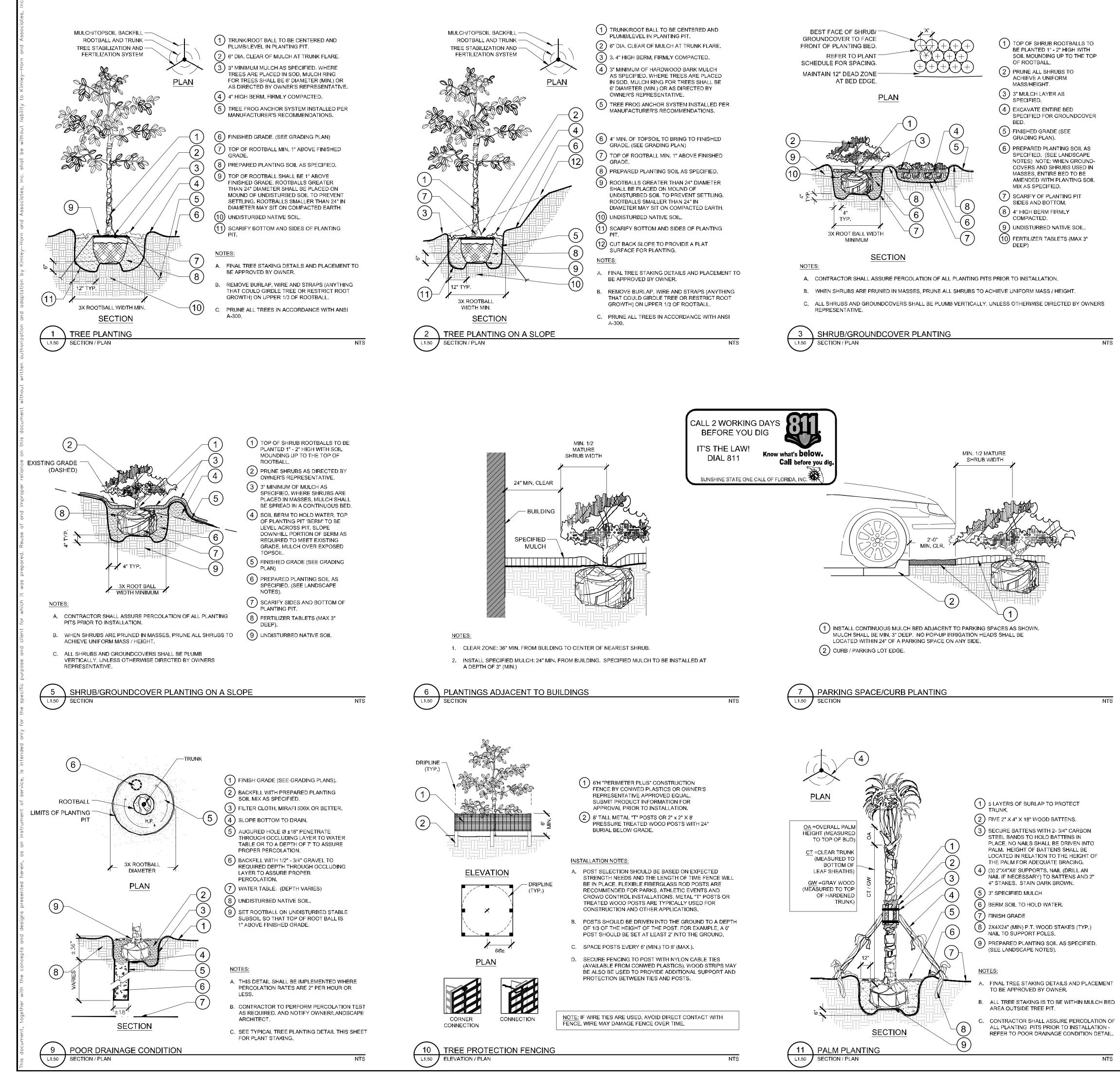
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PROPERTY BOUNDARY		Simpley Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407-898-1511 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
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DIRT ROAD		LANDSCAPE PLAN
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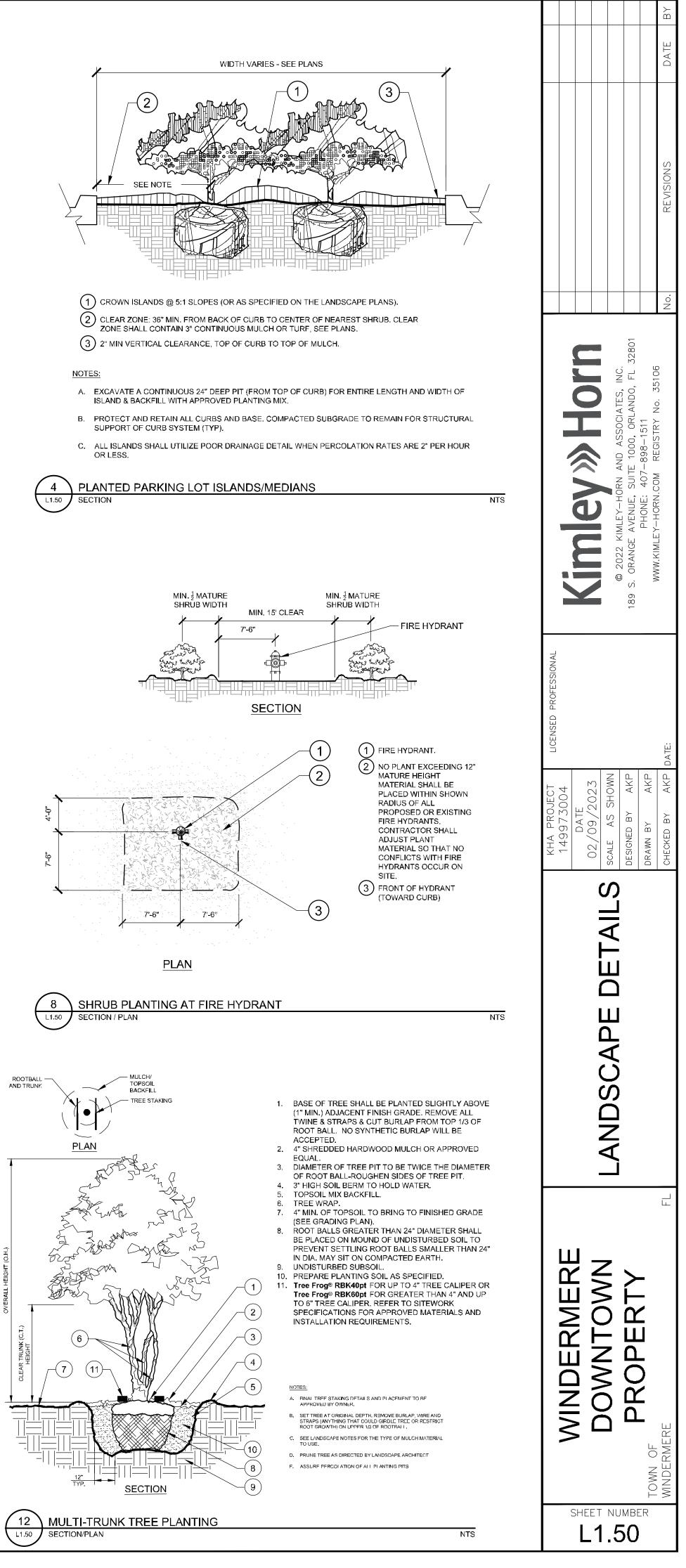
ANOPY TREE	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME
+	QVC	2	QUERCUS VIRGINIANA 'CATHEDRAL' SINGLE, STRAIGHT TRUNK, FULL, FLORIDA #1	CATHEDRAL LIVE OAK
	UPA	4	ULMUS PARVIFOLIA 'ALLEE TM' SINGLE, STRIGHT TRUNK, FULL, FLORIDA #1	ALLEE LACEBARK ELM
	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME
	KPE	3	EXISTING GOLDEN RAIN TREE CONTRACTOR LIABLE FOR DAMAGES	TO REMAIN
	PAE	7	EXISTING PALM CONTRACTOR LIABLE FOR DAMAGES	TO REMAIN
	PME	1	EXISTING PODOCARPUS TREE CONTRACTOR LIABLE FOR DAMAGES	TO REMAIN
	QVE	27	EXISTING LIVE OAK CONTRACTOR LIABLE FOR DAMAGES	TO REMAIN
NDERSTORY TREES	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME
· · ·	IAE	3	ILEX X ATTENUATA 'EAST PALATKA' SINGLE, STRAIGHT TRUNK, FULL, FLORIDA #1	EAST PALATKA HOLLY
	LIN	3	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ' STANDARD, SINGLE, STRAIGHT TRUNK, FULL, FLORIDA #1	NATCHEZ CRAPE MYRTLE MULTI-TRUN
+	LJ	9	LIGUSTRUM JAPONICUM MULTI-TRUNK, 4 TRUNKS, FULL, FLORIDA #1	JAPANESE PRIVET
HRUBS		QTY	BOTANICAL NAME	COMMON NAME
\bigcirc	AGE	28	ABELIA X GRANDIFLORA 'EDWARD GOUCHER' FULL	EDWARD GOUCHER GLOSSY ABELIA
5	GM	21	GARDENIA AUGUSTA 'MIAMI SUPREME' STANDARD, FULL	MIAMI SUPREME GARDENIA
	IF	120	ILLICIUM FLORIDANUM FULL	FLORIDA ANISE
(+)	РМ	101	PODOCARPUS MACROPHYLLUS FULL TO BASE, CLOSELY MATCHING	PODOCARPUS
\bigcirc	RF	41	RHODODENDRON X 'FASHION' FULL	FASHION GLENN DALE AZALEA
(· · · · · · · · · · · · · · · · · · ·	RG	22	RHODODENDRON X `MRS. G. G. GERBING' FULL	LARGE WHITE AZALEA
\bigcirc	RR	6	RHODODENDRON X 'FORMOSA' FULL	FORMOSA AZALEA
\oplus	VS	73	VIBURNUM SUSPENSUM FULL	SANDANKWA VIBURNUM
HRUB AREAS	<u>CODE</u>	<u>QTY</u>	BOTANICAL NAME	COMMON NAME
	ВТ	35	BOUGAINVILLEA X 'MISS ALICE' THORNLESS FULL	MISS ALICE BOUGAINVILLEA
	JM	19	JASMINUM MULTIFLORUM FULL	DOWNEY JASMINE
	NF	41	NEPHROLEPIS FALCATA FULL	MACHO FERN
	ΡΑ	177	PLUMBAGO AURICULATA FULL	BLUE PLUMBAGO
19999 19999 19999 19999	RA	198	RHAPHIOLEPIS INDICA 'ALBA' FULL	WHITE INDIAN HAWTHORN
ROUND COVERS	<u>CODE</u>	<u>QTY</u>	BOTANICAL NAME	COMMON NAME
	AE	105	ASPIDISTRA ELATIOR FULL	CAST IRON PLANT
;+;+;+;+; ++++;+;+; +++++;+;+; ++++++;+;+;	LMS	904	LIRIOPE MUSCARI 'BIG BLUE' FULL	BIG BLUE LILYTURF
	⊤м	2,121	TRACHELOSPERMUM ASIATICUM 'MINIMA' FULL	MINIMA ASIATIC JASMINE
<u>OD</u>	CODE	QTY	BOTANICAL NAME	COMMON NAME
	SOD A	16,961 SF	STENOTAPHRUM SECUNDATUM `FLORITAM` 100% INSECT/DIEASE FREE, LAID TIGHT,	FLORITAM ST. AUGUSTINE SOD

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	<u>CONT</u>	CAL	<u>SIZE</u>	DROUGHT TOL.	NATIVE
	100 GAL	3.5" CAL MIN	14` HT., 16` SPR.	YES	YES
	65 GAL	3" CAL. TOT.	14` HT., 10` SPR.	YES	YES
	CONT	<u>CAL</u>	<u>SIZE</u>	DROUGHT TOL.	NATIVE
	EXISTING	-	-		
	EXISTING	-	-		
	EXISTING	-	-		
	EXISTING	-	-		
	CONT	CAL	<u>SIZE</u>	DROUGHT TOL.	NATIVE
	FG	3" CAL MIN	12` HT., 6` SPR.	YES	YES
,	65 GAL	5" CAL. TOT.	12` HT., 7` SPR.	YES	NO
	100 GAL	4" CAL. TOT.	8` HT., 8` SPR.	YES	NO
	CONT	SPACING	<u>SIZE</u>	DROUGHT TOL.	NATIVE
	3 GAL	36" OC	24" HT MIN	YES	YES
	7 GAL	SEE PLAN	48" HT MIN	NO	NO
	3 GAL	36" OC	20" HT MIN	YES	YEŞ
	3 GAL	24" OC	36" HT MIN	YES	NO
	7 GAL	SEE PLAN	30" HT MIN	YE\$	NO
	7 GAL	SEE PLAN	36" HT MIN	NO	NO
	7 GAL	SEE PLAN	36" HT MIN	YES	YES
	3 GAL	36" OC	36" HT MIN	YES	NO
	CONT	<u>SIZE</u>	<u>SPACING</u>	DROUGHT TOLERANCE	NATIVE
	3 GAL	12" HT MIN	36" OC	YES	NÔ
	3 GAL	14" HT MIN	30" OC	YES	NO
	3 GAL	12" HT MIN	30" OC	YES	NO
	3 GAL	12" HT MIN	36" OC	YES	NO
	3 GAL	18" HT MIN	30" OC	YES	NÔ
	CONT	<u>SIZE</u>	SPACING	DROUGHT TOL.	NATIVE
	1 GAL	20" HT. MIN	18" OC	YES	NO
	1 GAL	12" FULL	18" OC	YES	NO
	1 GAL	8" SPRD MIN	14" OC	YES	NO
	CONT	<u>SIZE</u>	SPACING	DROUGHT TOL.	NATIVE
	SOD	-	-	NO	NO

2.	ALL LANDSCAPED AREAS ARE T
3.	ALL PLANT MATERIAL SHALL BE
4.	ALL MATERIALS ARE SUBJECT T DURING, AND AFTER INSTALLATI
5.	ALL TREES MUST BE GUYED OR
6.	ALL PLANTING AREAS SHALL BE
7.	PRIOR TO CONSTRUCTION, THE UNDERGROUND UTILITIES AND S OF THE WORK. LOCATIONS OF E BASED UPON BEST AVAILABLE II SHALL BE THE RESPONSIBILITY UTILITY LINES ADJACENT TO THI CONSTRUCTION PERIOD 3) TO R APPURTENANCES, ETC. WHICH G
8.	THE CONTRACTOR SHALL BE RE THESE PLANS BEFORE PRICING
9.	CONTRACTOR SHALL BE RESPO DELIVERY AND PLANTING TO MA
10.	THE CONTRACTOR SHALL BE RE LIMITED TO: WATERING, SPRAYII MATERIALS AND LAWN FOR THE
11.	ANY PLANT MATERIAL WHICH IS SUBSTANTIAL COMPLETION) SHA WITH MATERIAL OF THE SAME S SPECIFICATIONS.
12.	THE CONTRACTOR SHALL COMP PERIOD. THE CONTRACTOR SHA NORMAL PLANTING SEASON.

LAN 1. 2. 3.	<u>DSCAPE NOTES:</u> ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.		REVISIONS DATE BY
4. 5. 6.	ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.		
7.	PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES ADJACENT TO THE WORK AREA 2) TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.		66 No.
8.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.		ATES, INC. ANDO, FL. No. 35106
9.	CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.		
	THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO		AND A - 898- - 898-
	SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.		HORN UE SUIT
12.	THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.		KIMLEY-HC RIMLEY-HC E AVENUE, PHONE: LEY-HORN.
	STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.		© 2022 KIMLEY-HORN S. ORANGE AVENUE, SUIT PHONE: 407 WWW.KIMLEY-HORN.COM
	ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT		
16.	EXISTING TREES. ALL LANDSCAPE AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION		ONAL
17.	SYSTEM. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT).		PROFESSIONAL
18.	ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.		FL RHA PROJECT LGENSED LANDSCAPE BATE DATE DATE DATE DATE SCHEDULE & NOTES BATE D2/09/2023 FL PESIGNE BY AKP FL DATE DATE FL DATE DATE
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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

- A. SCOPE OF WORK
 - 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 THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED
- 2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER
- B. PROTECTION OF EXISTING STRUCTURES
- 1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FOOT DESIGN STANDARDS, INDEX 600, IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED. THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF FDOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE. PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. 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 UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO 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.
- C. PROTECTION OF EXISTING PLANT MATERIALS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS (\$300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.
- 2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE
- D. MATERIALS
- GENERAL
 - MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

- 2. PLANT MATERIALS
- a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND ONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS, TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE, ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER, WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST. THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE, NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVI
- b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.
- c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.
- E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)
- 1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:
- SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- a. 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.
- b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 2. TREES SHALL BE PLANTED 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.
- F. WATER
 - WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALI BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.
 - * WATERING/IRRIGATION RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.
- G. FERTILIZER
- CONTRACTOR SHALL 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.
- * FERTILIZER RESTRICTIONS MAY APPLY REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.
- MULCH
- 1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH," EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.
- PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.
- DIGGING AND HANDLING
- PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.
- BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

- PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS, CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.
- PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL
- EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.
- CONTAINER GROWN STOCK
- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.
- AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT 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. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.
- 3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 4. RPG= "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.
- K. COLLECTED STOCK
- WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY. NATIVE STOCK
- PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW. MATERIALS LIST Μ.
- QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.
- FINE GRADING
- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE
- 2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.
- 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.
- PLANTING PROCEDURES
- CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK 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 WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.
- FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.
- COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.
- THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.
- ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.
- 8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.
- 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.
- 10. TREES AND SHRUBS SHALL BE SET 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).
- AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.
- 12. FILL HOLE WITH SOIL MIXTURE. MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.
- 13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.
- 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.
- 15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.
- 16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)
- LAWN SODDING
- THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- 2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT 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 SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

- THOROUGHLY. 4. SODDING
- LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.
- SWEATING OR EXCESSIVE HEAT AND MOISTURE.
- 6. LAWN MAINTENANCE
- REGRADING IF NECESSARY).
- RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY. Q. CLEANUP
- APPROVED BY THE OWNER'S REPRESENTATIVE.
- R. PLANT MATERIAL MAINTENANCE
- FINAL INSPECTION AND ACCEPTANCE OF WORK
- ACCEPTANCE HEREIN DESCRIBED.
- WARRANTY
- BY THE OWNER'S REPRESENTATIVE.
- PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

3. PREPARE LOOSE BED FOUR (4) INCHES DEEP, HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED, WET PREPARED AREA

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT

b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM

c. 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. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. 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

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

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE. THE CONTRACTOR SHALL 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

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND

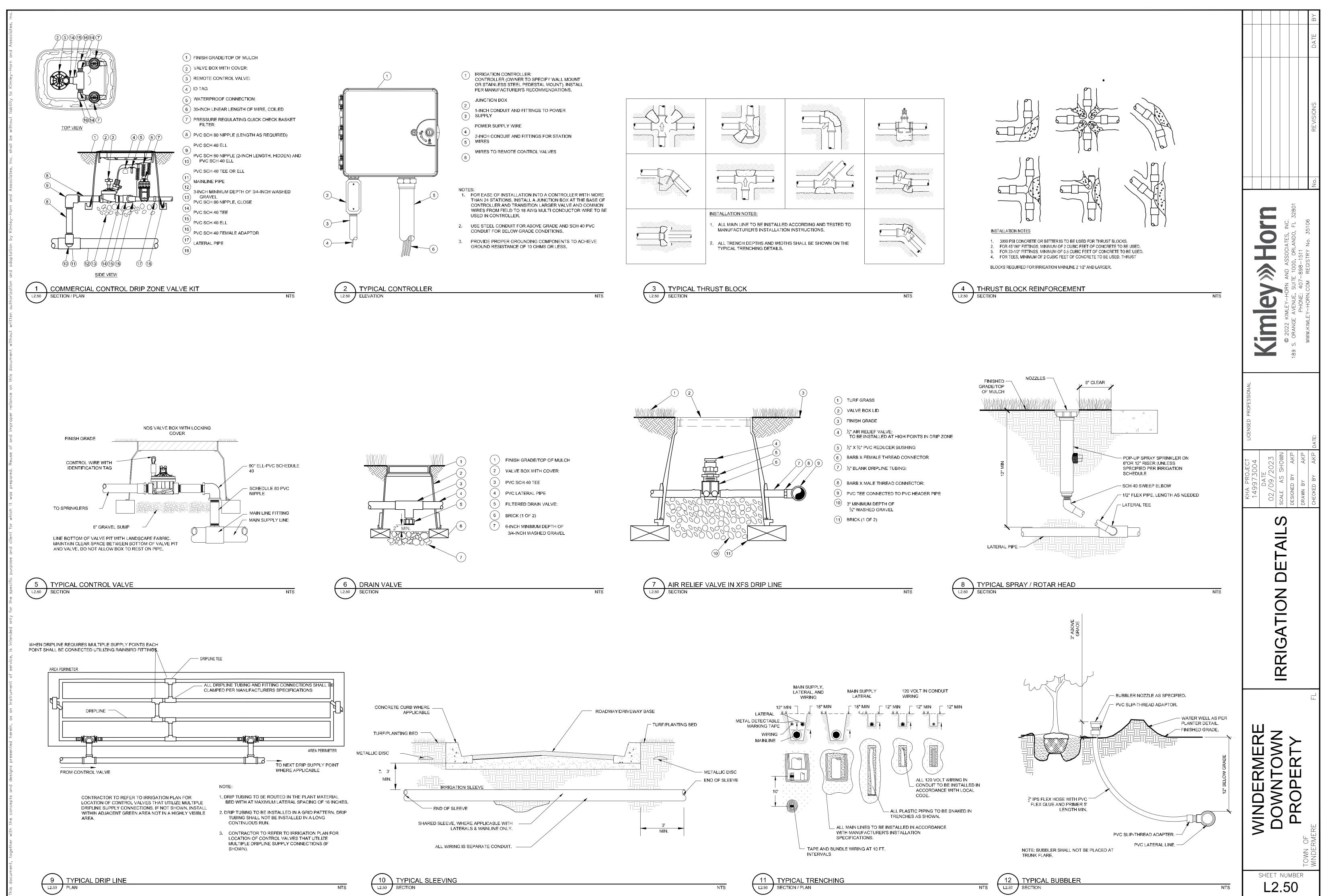
THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE

ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF 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. 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 GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A

> ALL 2 WORKING DAYS **BEFORE YOU DIG** IT'S THE LAW! Know what's **below** DIAL 811



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 Kimley » Horn © 2022 KIMLEY-HORN AND ASSOCIATES, INC. 189 S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 32801 PHONE: 407–898–1511 WWW.KIMLEY-HORN.COM REGISTRY No. 35106
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IRRIGATION SYSTEM NOTES:

- 2. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
- 3.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR. COORDINATE LOCATION W/ OWNER.

- 12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
- PRE-APPROVED MANUFACTURERS
- 2. HUNTER 3. RAINBIRD
- JURISDICTION.
- 15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.

- PROGRAM DESIGNATION.
- 21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
- CONTROL WIRES #14 COMMON WIRES - #14
- 23. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
- -RECTANGULAR 12"X17" HEAVY DUTY BOX. (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).

- OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
- 28. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 GPI
- 30. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1 $\frac{1}{4}$ " ELECTRICAL CONDUIT.
- 31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".

- 35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DENOTED ON THE LANDSCAPE PLAN.
- 37. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
- 40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1. THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPO ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.

4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLLERS ALLOWED). COORDINATE LOCATION WITH OWNER.

6. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER / PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION. 7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.

8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.

9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.

10. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.

11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.

13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE

14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.

17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION (WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.

18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMAI 19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIME CL

20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.

22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET. AS FOLLOWS:

24. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).

25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.

26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VAL

27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYP

29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLE DECODERS SHALL BE GROUNDED EVERY 1,000 L.F. OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500' REELS AND SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATION SPECIFICATIONS AND INTEGRATED SURGE PRO

32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.

33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.

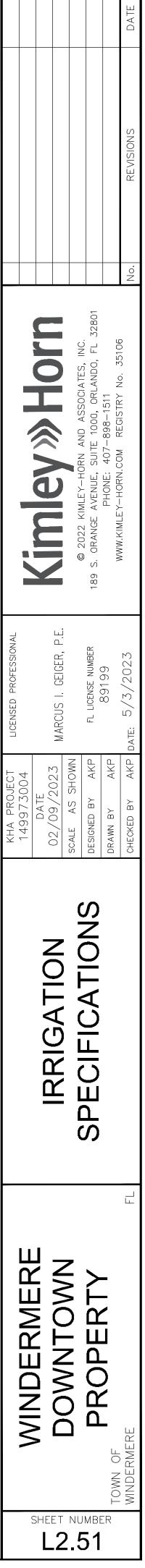
34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.

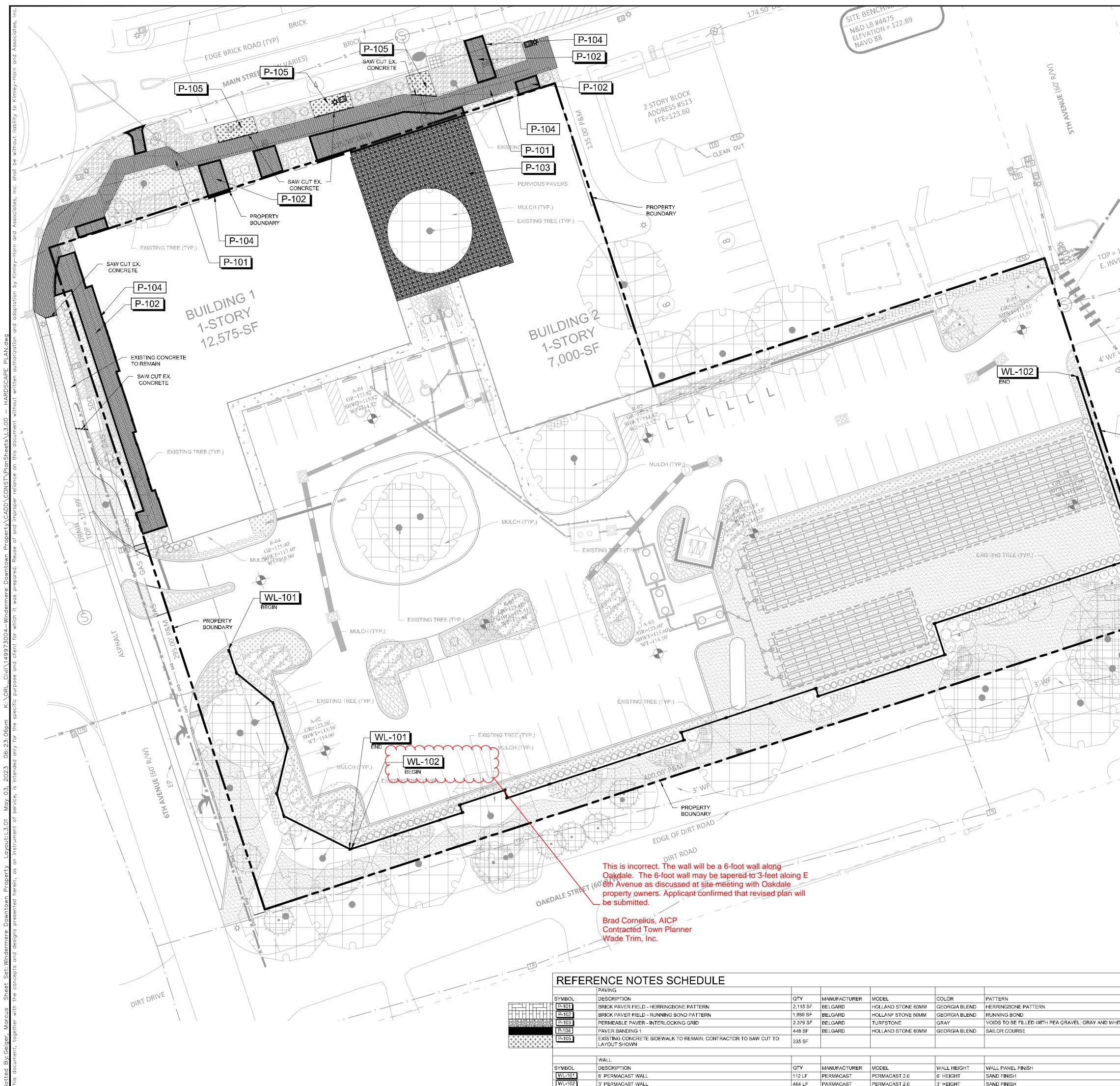
36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.

38. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES.

39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION, VERIFY WITH LOCAL JURISDICTION.

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PONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM	
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YPES BE LOCATED ON THE SAME VALVE.	
GPH EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.	
ENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION	
PROTECTION.	





P-104 P-101 P-103 RVIOUS PAVER JLCH (TYP.) ISTING TREE (T BUILE 1-S 7, 9	VIEL OC	102 2 STORY BLOCK 2 STORY BLOCK ADDRESS #513 ADDRESS #513 CLEAN OUT CLEAN OUT PROPERTY BOUNDARY XX O						PROPERTY BOINDARY A WF BOINDARY A BOINDARY A BOINTARY A BOINDARY A BOINDARY A BOINDARY A BOINDARY		KHA PROJECT Icensed professional Icensed professional Icensed professional 149973004 Date Date
		PROPERTY BOUNDARY EDGE OF DIRT ROAD	7							HARDSC
R SYM P P P P P P P P P P P P P P P P P P P	EFER 180L 101 102 103 104 105	This is incorrect. The wall will be a 6-foot wall along Oakdale. The 6-foot wall may be tapered to 3-feet alo of th Avenue as discussed at site meeting with Oakdale property owners. Applicant confirmed that revised plat be submitted. Brad Cornelius, AICP Contracted Town Planner Wade Trim, Inc.	Ding E P N will QTY 2,115 SF 1,889 SF 2,379 SF 448 SF 335 SF	BELGARD	MODEL HOLLAND STONE 60MM HOLLANF STONE 60MM TURFSTONE HOLLAND STONE 60MM	GEORGIA BLEND GRAY GEORGIA BLEND	VOIDS TO BE FILLED WITH PEA GRAVEL; GRAY AND WHITE BLEND SAILOR COURSE	NOTES C INSTALL PER MANUFACTURER'S SPECIFICATIONS INSTALL PER MANUFACTURER'S SPECIFICATIONS; SEE DETAIL ON CIVIL PLANS INSTALL PER MANUFACTURER'S SPECIFICATIONS INSTALL PER MANUFACTURER'S SPECIFICATIONS		TOWN OF MINDERAFER BOWNTOWN PROPERTY I RUNDER
SYM WI	/BOL L-101 L-102	DESCRIPTION 6' PERMACAST WALL 3' PERMACAST WALL	112 LF	MANUFACTURER PERMACAST PARMACAST	MODEL PERMACAST 2.0 PERMACAST 2.0	WALL HEIGHT 6` HEIGHT 3` HEIGHT	WALL PANEL FINI\$H SAND FINI\$H SAND FINI\$H	WALL PANEL COLOR TO BE PROVIDED FROM OWNER TO BE PROVIDED FROM OWNER	COLUMN VENEER MANUFACTURER COLUMN VENEER MODEL EL DORADO HARTFORD EL DORADO HARTFORD	L3.01