

- NOTES:**
- TREE BARRICADES WILL BE BUILT BEFORE ANY SITE WORK IS UNDERTAKEN AND WILL REMAIN IN PLACE UNTIL THE LANDSCAPING IS PLANTED.
 - EACH BARRICADE MUST BE AT LEAST 3 FEET TALL, WITH CORNER POSTS OF 2" X 4" WOOD INSERTED AT LEAST ONE AND A HALF (1+1/2) FEET DEEP. THE TWO ROWS OF SIDE SLATS MUST BE 1" X 4" AND BE MARKED WITH PLASTIC RIBBONS OR MESH FENCING FOR VISIBILITY.
 - NO GRADING WITHIN FENCING. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
 - NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN CONSTRUCTION FENCING OR BEYOND THE CONSTRUCTION LIMITS.
 - THE AREA ENCLOSED MUST BE AT OR OUTSIDE THE DRIPLINE FOR ALL HERITAGE AND CHAMPION TREES AND ALL REGULATED PINE AND PALM TREES, OR EQUAL TO 2/3 OF THE DRIPLINE OF THE TREE CANOPY FOR ALL OTHER REGULATED SPECIES, OR AT THE TREE ROOT PLATE WHERE ALLOWED BY CONSTRUCTION LIMITS.

TREE BARRICADE FENCING DETAIL
N.T.S.

TREES TO BE REMOVED

| Tree No. | Tree Species | DBH | Classification | Mitigation (one-for-one) | Mitigation (Inch-for-inch) |
|--|--------------|-------|----------------|--------------------------|----------------------------|
| 16 | Chinaberry | 14 | Invasive | - | - |
| 87 | Chinaberry | 15 | Invasive | - | - |
| 106 | Live Oak | 9 | Regulated | 1 | - |
| 138 | Live Oak | 26 | Heritage | - | 26 |
| 139 | Cedar | 33 | Heritage | - | 35 |
| 140 | Live Oak | 23 | Heritage | - | 23 |
| 141 | Live Oak | 20 | Heritage | - | 20 |
| 143 | Live Oak | 23 | Heritage | - | 23 |
| 144 | Live Oak | 22-27 | Heritage | - | 49 |
| Total Regulated Mitigation Trees Required | | | | 1 | |
| Total Heritage Inches Required | | | | | 176 |

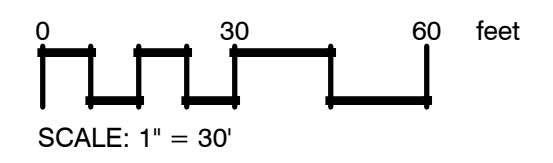
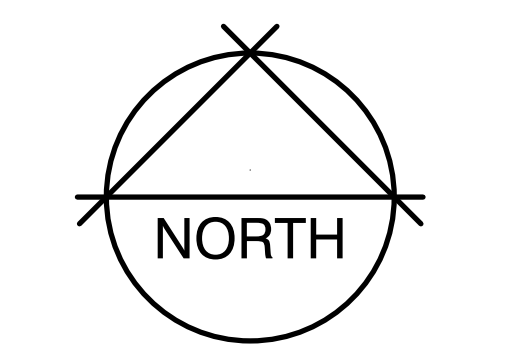
TREES TO BE PRESERVED AND MITIGATED

| Tree No. | Tree Species | DBH | Classification | Mitigation (one-for-one) | Mitigation (Inch-for-inch) |
|--|--------------|-----|----------------|--------------------------|----------------------------|
| 137 | Live Oak | 32 | Heritage | - | 33.5 |
| 142 | Palm | 15 | Regulated | 1 | - |
| Total Regulated Mitigation Trees Required | | | | 1 | |
| Total Heritage Inches Required | | | | | 33.5 |



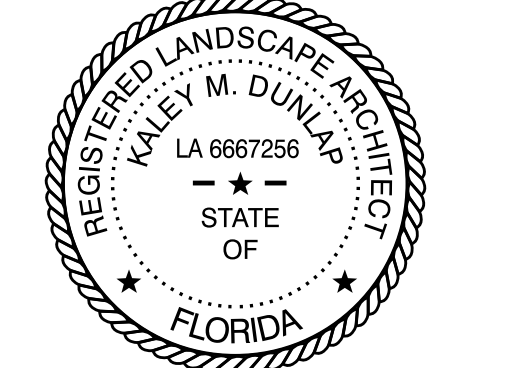
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| No. | Date | Comment |
|-----|------------|---------------------|
| 1 | 2024-04-01 | PER COUNTY COMMENTS |
| 2 | 2024-04-26 | PER COUNTY COMMENTS |

Professional Landscape Architect of Record:



Kaley M. Dunlap, PLA
Landscape Architect
Project No.: 24-005
Certificate No. LA6667256

Project Title: COUNTY SUBMITTAL

CUSCOWILLA FIRE STATION
ALACHUA COUNTY, FLORIDA

Sheet Title: TREE MITIGATION

Designed: KMD
Drawn: ZRR
Checked: KMD
Date: 02/04/2024
Sheet No.: **L100**

LANDSCAPE NOTES

- PRE-DESIGN MEETING:** COORDINATE AND CONDUCT AN ON-SITE MEETING WITH THE ALACHUA COUNTY FORESTER/LANDSCAPE INSPECTOR OR DESIGNATED COUNTY REPRESENTATIVE TO DISCUSS EXISTING REGULATED TREES AND PROTECTION METHODS. CONTACT (352) 374-5243 EXT. 3503
- EXISTING UTILITIES:** LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL 811.
- INVASIVE SPECIES:** REMOVE INVASIVE, NONNATIVE PLANT SPECIES AS LISTED ON THE FLORIDA PROHIBITED AQUATIC PLANTS LIST OR THE FLORIDA NOXIOUS WEED LIST FROM THE SITE PRIOR TO ISSUANCE OF THE CERTIFICATION OF OCCUPANCY. ALL HERBICIDE APPLICATIONS TO CONTROL INVASIVE, NONNATIVE PLANTS IN WETLAND OR UPLAND SET-ASIDE AREAS, INCLUDING BUFFERS, SHALL BE APPLIED BY A CONTRACTOR LICENSED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF AGRICULTURAL ENVIRONMENTAL SERVICES, WITH A CURRENT CERTIFICATION IN NATURAL AREAS WEED MANAGEMENT.
- ON-SITE LITTER REMOVAL:** REMOVE ALL EXISTING LITTER AND DEBRIS VISIBLE ON THE PROJECT SITE.
- PLANTING PREPARATION:** REMOVE ALL CONSTRUCTION DEBRIS, LIMEROCK, GRAVEL, ROAD BEDDING, LITTER, AND OTHER ITEMS POTENTIALLY DAMAGING TO PLANT GROWTH WITHIN PROPOSED LANDSCAPE AND TURF AREAS PRIOR TO PLANTING. MAINTAIN EXISTING GRADES UNLESS OTHERWISE APPROVED BY THE OWNERS REPRESENTATIVE. IF FILL IS REQUIRED, USE A CLEAN, SANDY LOAM WITH pH 5.5-6.5 AND EXCAVATED FROM LOCAL SOURCES AND DEEP PITS SUCH THAT IT IS FREE OF WEEDS, SEEDS, LITTER, TOXINS, AND OTHER ITEMS HARMFUL TO PLANTING.
- PRUNING:** IF TREE OR ROOT PRUNING IS REQUIRED, THESE ACTIVITIES SHALL BE PERFORMED BY AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURAL (ISA). TREE PRUNING SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT VERSION O THE AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS "TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE" (ANSI 300) AND "PRUNING, TRIMMING, REPAIRING, MAINTAINING, AND REMOVING TREES, AND CUTTING BRUSH - SAFETY REQUIREMENTS" (ANSI Z193). NO MORE THAN 25 PERCENT OF THE CROWN SHOULD BE REMOVED AT ONE TIME. ON YOUNG TREES, LIMB REMOVAL SHALL LEAVE NO MORE THAN 33 PERCENT OF THE TRUNK BARE OF BRANCHES.
- MINIMUM PLANTING AREAS:** A MINIMUM PERVIOUS AREA OF 200 SF AND MINIMUM PLANTING AREA OF 140 SF SHALL BE PROVIDED FOR CANOPY TREES WITHIN PARKING AREAS. A MINIMUM PLANTING AREA OF 200 SF SHALL BE PROVIDED FOR CANOPY TREES OUTSIDE OF PARKING AREAS. A MINIMUM PERVIOUS AREA OF 120 SF AND MINIMUM PLANTING AREA OF 90 SF SHALL BE PROVIDED FOR UNDERSTORY TREES WITHIN PARKING AREAS. A MINIMUM PLANTING AREA OF 210 SF SHALL BE PROVIDED FOR UNDERSTORY TREES OUTSIDE OF PARKING AREAS. PLANTING AREAS SHOULD BE FREE FROM COMPACTED MATERIAL TO A DEPTH OF 18-INCHES, MINIMUM.
- PLANT MATERIAL GENERAL:** ALL PLANT MATERIALS SHALL MEET 'FLORIDA NUMBER 1' REQUIREMENTS AS PER THE MOST CURRENT EDITION OF 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS', FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- PROPOSED TREES:** TREES PROPOSED ALONG STREETS, WITHIN PAVING, OR IN PARKING LOT ISLANDS SHALL BE A MINIMUM OF TEN FEET TALL, HAVE A MINIMUM TRUNK CALIPER OF TWO INCHES, AND BE IN 25-GALLON MINIMUM CONTAINER. TREES PROPOSED IN STORMWATER FACILITIES OR ELSEWHERE SHALL BE A MINIMUM OF FOUR FEET TALL, HAVE A MINIMUM TRUNK CALIPER OF 3/4 INCHES, AND BE IN 7-GALLON MINIMUM CONTAINERS. NEW TREES LOCATED OUTSIDE OF LARGER PLANTING AREAS WITHIN TURF AREAS TO HAVE 6" OF PLASTIC DRAIN TUBING INSTALLED AROUND THE BASE OF THEIR TRUNK TO PROTECT FROM MOWER AND STRING TRIMMER IMPACTS.
- NEW TREE STAKING:** IF NECESSARY TO MAINTAIN TREES PLUMB, TREES SHALL BE STAKED WITHIN BIODEGRADABLE STAKING MATERIALS.
- PROPOSED SHRUBS:** PROPOSED SHRUBS SHALL BE A MINIMUM OF TWO FEET TALL AND BE IN 3-GALLON MINIMUM CONTAINERS.
- SOD:** ALL UNPAVED AND DISTURBED AREAS OUTSIDE OF PROPOSED TREE, SHRUB, AND GROUNDCOVER PLANTINGS SHALL BE SODDED. SEE CIVIL PLANS FOR SODDING INFORMATION FOR STORMWATER FACILITIES. SOD SHALL BE SAND-GROWN, STRONGLY ROOTED, WITHOUT SYNTHETIC STABILIZING MATERIALS, FREE OF PESTS, AND CERTIFIED FREE OF NOXIOUS WEEDS BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY.
- MULCHING:** THREE INCHES OF MULCH, SETTLED, SHOULD COVER TREE RING PLANTING AREAS AND ALL SHRUB AND GROUNDCOVER PLANTING AREAS. MULCH SHOULD BE NO DEEPER THAN ONE INCH OVER THE TOP OF TREE ROOTBALLS. USE PINESTRAW MULCH IN ALL AREAS. MULCH TO BE FREE OF DEBRIS, STICKS, AND CONES. NO PLASTIC OR NON-BIODEGRADABLE WEED CLOTH OR SURFACE COVERS TO BE USED.
- RESPONSIBILITY:** ALL LANDSCAPING FROM THE APPROVED LANDSCAPE PLAN IS REQUIRED TO BE REPLACED IF AND/OR WHEN IT FAILS. OWNER IS RESPONSIBLE FOR THE SURVIVAL OF PLANTINGS. OWNER IS RESPONSIBLE FOR THE REMOVAL OF ALL TREE STAKING, IF INSTALLED, FOR ONE YEAR FOLLOWING RECEIPT OF CERTIFICATION OF OCCUPANCY. IF A TREE DIES OR IS SEVERELY DAMAGED, AS DETERMINED BY THE COUNTY'S REPRESENTATIVE, THEN THE TREE MUST BE REPLACED BY THE OWNER PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- LETTER OF COMPLIANCE:** PROVIDE ONE WEEK NOTICE TO LANDSCAPE ARCHITECT REGARDING SCHEDULING THE FINAL REVIEW OF INSTALLED LANDSCAPE AND EXISTING VEGETATION PROTECTION FOR THE PURPOSES OF PREPARING THE LETTER OF COMPLIANCE.

PROPOSED TREE CANOPY COVERAGE

Per Alachua County ULDC, Article II., Sec. 406.12
 At least 30% of the site shall be under mature canopy within 20 years - % met as per below

| TREE SPECIES | EST. 20 YEAR CROWN | CROWN AREA (SF) | PROPOSED QUANTITY | PROPOSED % OF CANOPY ON SITE | PROPOSED CANOPY AREA ON SITE (SF) |
|---------------------------------|--------------------|-----------------|-------------------|------------------------------|-----------------------------------|
| Acer rubrum | 25 | 490.625 | 3 | 100% | 1471.875 |
| Betula nigra | 25 | 490.625 | 4 | 100% | 1962.5 |
| Liriodendron tulipifera | 25 | 490.625 | 1 | 100% | 490.625 |
| Pinus palustris | 25 | 490.625 | 3 | 200% | 2943.75 |
| Quercus virginiana | 45 | 1589.625 | 4 | 100% | 6358.5 |
| Taxodium distichum | 20 | 314 | 4 | 100% | 1256 |
| Total Existing Canopy - PHASE 1 | | | | | 161,172.00 |
| Total Proposed 20-Year Canopy | | | | | 14,483.25 |
| Site Area | | | | | 217,805.30 |
| Total Area under canopy | | | | | 175,655.25 |
| % Site Under Canopy at 20 Years | | | | | 80.65% |

*SEE SHEET C130 FOR TREE CANOPY PRESERVATION PLAN

STORMWATER MANAGEMENT FACILITIES

Per Alachua County ULDC, Article IV., Sec. 407.43.2.

Refer to Sheets L203 and L204 for Stormwater Requirement Summary Tables.

| STORMWATER BASIN - Phase 1 | | |
|-------------------------------------|------------------------|-------|
| REQUIREMENT | CALCULATIONS | |
| 1 Canopy Tree per 35 linear feet | Total Perimeter | 395 |
| | Canopy Trees Required | 11 |
| | Canopy Trees Provided | 11 |
| 25% of total basin area in planting | Total Area | 10300 |
| | Planting Area Required | 2,575 |
| | Planting Area Provided | 2,601 |

IRRIGATION NOTES

A temporary irrigation system is required for all new required landscaping. Temporary irrigation systems must be removed once the plants are established or within one year, whichever occurs first. Project must comply with the Alachua County Water Conservation Policy (AP-26). This includes prohibition of installation of permanent landscape irrigation at Alachua County facilities, except for athletic fields or edible landscapes. Temporary above ground irrigation may be used for the establishment of new landscapes.

TREE MITIGATION CALCULATIONS

TOTAL REGULATED MITIGATION TREES REQUIRED: 2 TREES
 (* 2" / TREE = 4 INCHES)
 TOTAL HERITAGE INCHES REQUIRED: 209.5 INCHES
 (209.5 INCHES / 2" PER TREE = 104.75 TREES)

TOTAL MITIGATION TREES REQUIRED: 107 TREES
 TOTAL MITIGATION TREES PROVIDED: 19 TREES

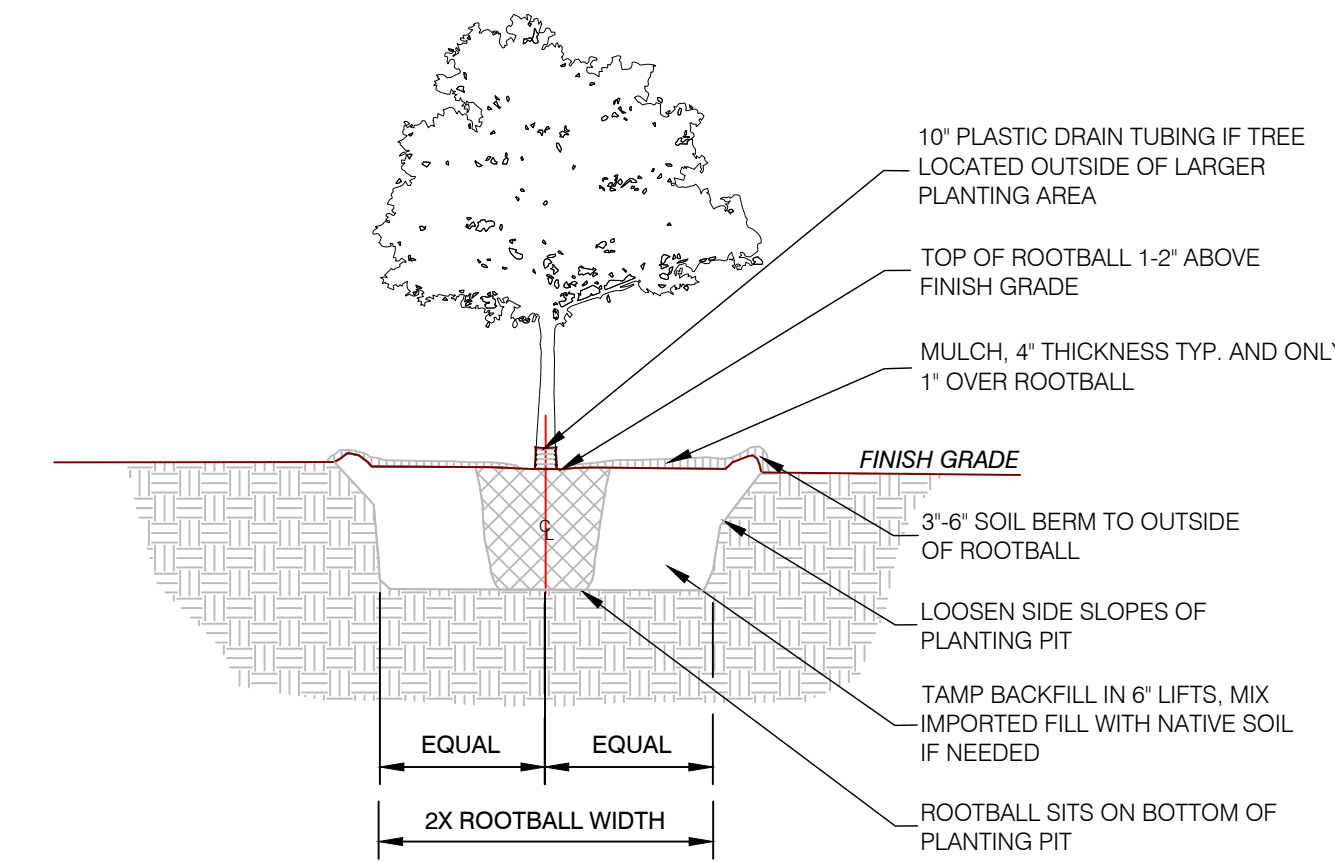
107 TREES - 19 TREES = 88 TREE DEFICIT
 88 TREE * 2" PER TREE = 176 INCH DEFICIT

176 INCHES * \$130.00 PER INCH = **\$22,880.00 TO BE PAID**

PROPOSED GROUND SURFACE SHADING

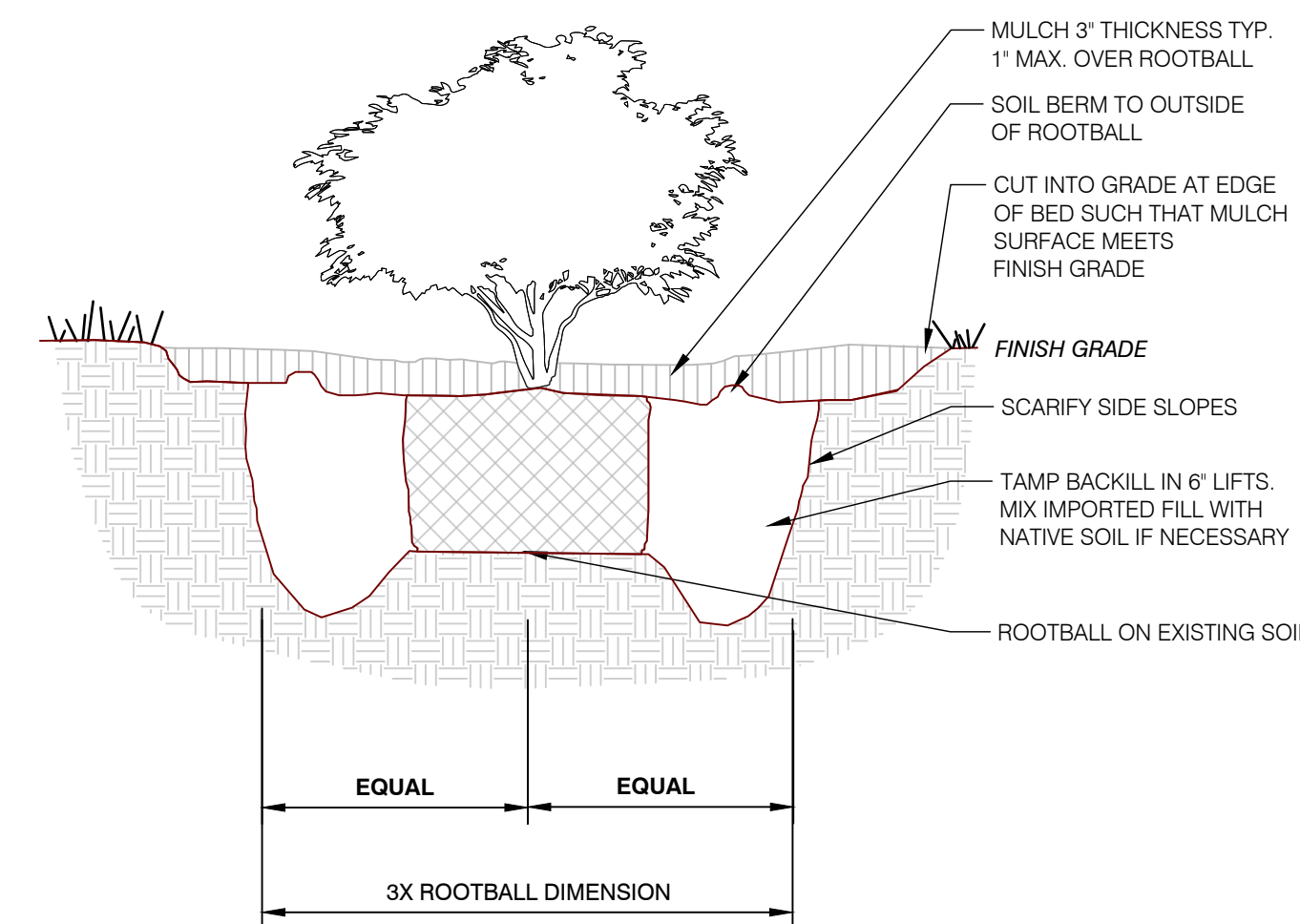
Per Alachua County ULDC, Article IV., Sec. 407.43.1.c
 Screening shall be provided where a paved ground surface area lies within 50 feet of and is visible from any street right-of-way. At least 50% of the paved ground surface area shall be under mature canopy within 20 years.

| TREE SPECIES | EST. 20 YEAR CROWN | CROWN AREA (SF) | PROPOSED QUANTITY | PROPOSED % OF CANOPY ON PAVE | PROPOSED CANOPY AREA ON SITE (SF) |
|---------------------------------|--------------------|-----------------|-------------------|------------------------------|-----------------------------------|
| Liriodendron tulipifera | 25 | 490.625 | 1 | 75% | 367.96875 |
| Quercus virginiana | 45 | 1589.625 | 2 | 75% | 2384.4375 |
| Quercus virginiana | 45 | 1589.625 | 2 | 50% | 1589.625 |
| Total Proposed 20-Year Canopy | | | | | 4,342.03 |
| Pavement Area | | | | | 8,486.14 |
| % Site Under Canopy at 20 Years | | | | | 51.17% |



- NOTES:
- ENSURE PLANTING PIT DRAINS WELL PRIOR TO INSTALLATION.
 - REMOVE TREE FROM CONTAINER OR REMOVE UPPER 1/3 OF BURLAP AND WIRE MESH FOR B&B TREES.
 - SLICE ROOTBALL VERTICALLY ON OUTSIDE EDGES OF AND AROUND ROOTBALL.
 - TREE TO BE PLUMB. STAKE TREE. SUBMIT TREE STAKING DETAILS AND LAYOUT FOR APPROVAL.

1 TREE PLANTING DETAIL
 SCALE: N.T.S. P-ED-01



2 SHRUB PLANTING DETAIL
 SCALE: N.T.S. P-ED-04

PREPARED BY:



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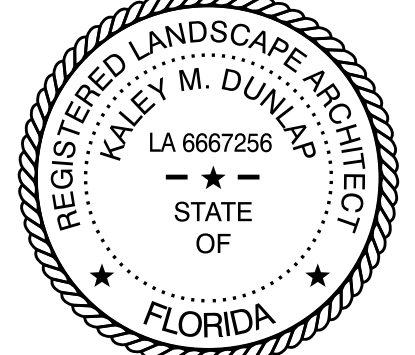
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Professional Landscape Architect of Record:



Kaley M. Dunlap, PLA LA6667256
 Landscape Architect Certificate No.

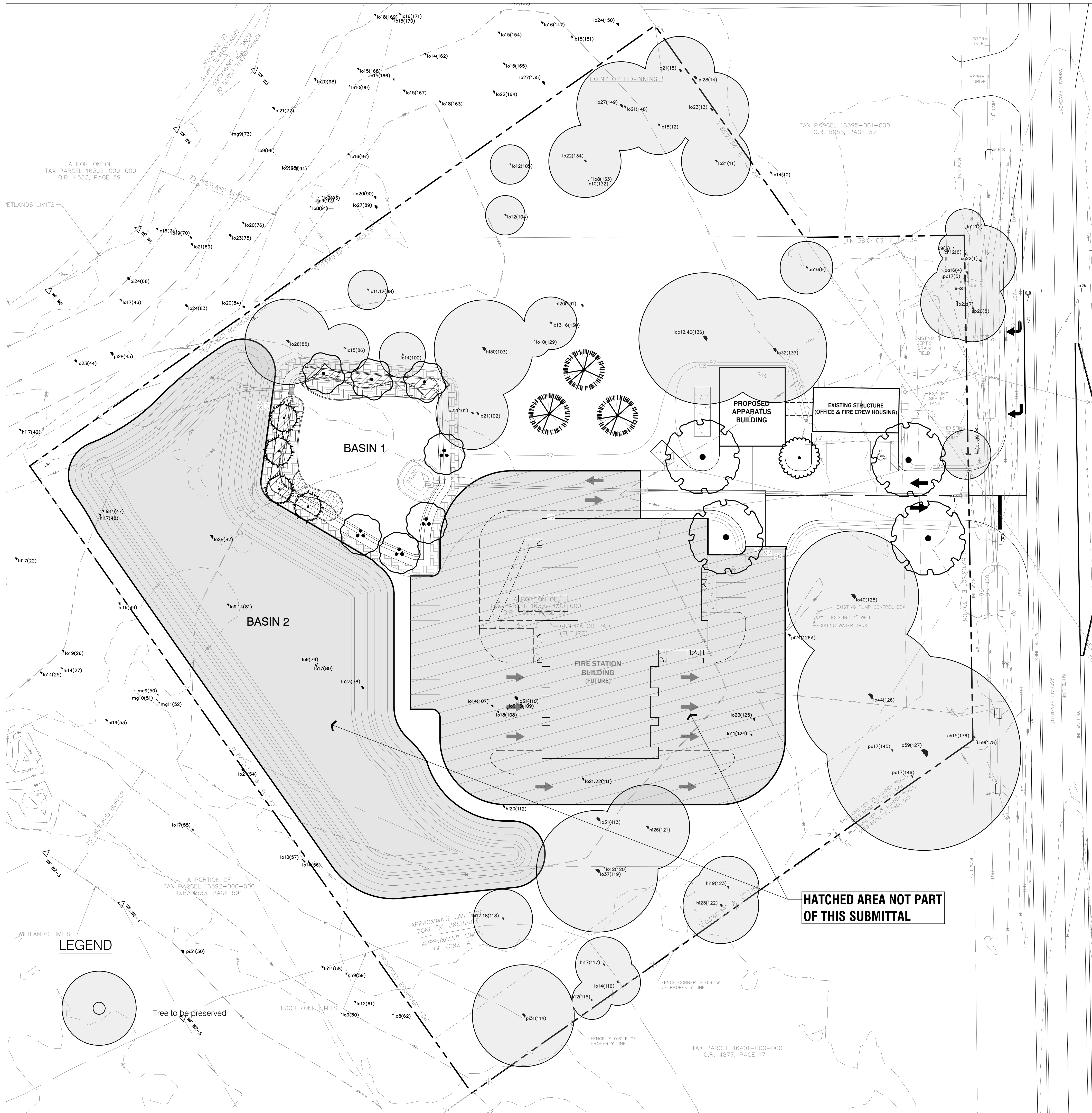
Project No: 24-005

Project Phase: COUNTY SUBMITTAL

Project Title: CUSCOWILLA FIRE STATION ALACHUA COUNTY, FLORIDA

Sheet Title: LANDSCAPE CALCULATIONS, NOTES, AND DETAILS

Designed: KMD Sheet No:
 Drawn: ZRR
 Checked: KMD **L200**
 Date: 02/04/2024



PLANT SCHEDULE

| SYMBOL | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | NOTES |
|--------------------------|------|-----|--|-----------------|----------------------|
| CANOPY TREES | | | | | |
| | LT | 1 | Liriodendron tulipifera / Tulip Poplar | 2" Cal. | 10' Ht. |
| | PP | 3 | Pinus palustris / Long Leaf Pine | 2" Cal. | 10' Ht. |
| | QV | 4 | Quercus virginiana / Southern Live Oak | 2" Cal. | 10' Ht. |
| | TD | 4 | Taxodium distichum / Bald Cypress FF#1, 25 Gallon minimum | 2" Cal. | 10' Ht. |
| CANOPY/UNDERSTORY | | | | | |
| | AR | 3 | Acer rubrum / Red Maple FF#1, 25 Gallon minimum | 2" Cal. | 10' Ht. |
| | BN | 4 | Betula nigra / River Birch Multi-Trunk | 1.5" Cal. Canes | 10' Ht. |
| SHRUB AREAS | | | | | |
| | IV | 42 | Iris virginica / Blue Flag Iris | 3 gal. | 18" Ht., Full + Lush |
| | MC | 27 | Muhlenbergia capillaris / Pink Muhly Grass | 3 gal. | 18" Ht., Full + Lush |
| | PZ | 58 | Plumbago zeylanica / Native White Plumbago | 3 gal. | 18" Ht., Full + Lush |
| | SB | 118 | Spartina bakeri / Sand Cordgrass | 3 gal. | 18" Ht., Full + Lush |

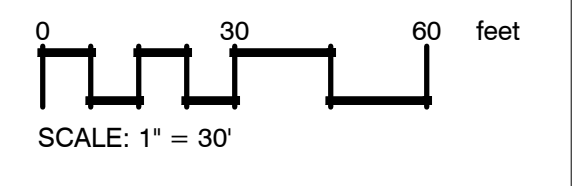
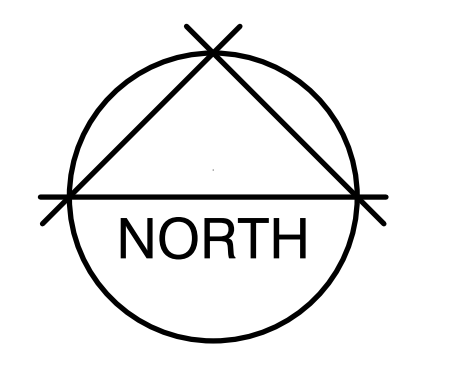
NOTES:

- ANY CURRENT OR FUTURE CLEARING OF BUFFERS IS PROHIBITED EXCEPT FOR MANAGEMENT AND REMOVAL OF NON-NATIVE INVASIVE SPECIES.

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Kaley M. Dunlap, PLA LA6667256
 Landscape Architect Certificate No.

Project No: 24-005
 Project Phase: COUNTY SUBMITTAL

Project Title: **CUSCOWILLA FIRE STATION
 ALACHUA COUNTY, FLORIDA**

Sheet Title: **LANDSCAPE PLAN**

Designed: KMD
 Drawn: ZRR
 Checked: KMD
 Date: 02/04/2024

Sheet No.: **L201**