



Town of Lake Park, Florida

Tree Board Meetingg Agenda

Tuesday, September 12, 2023 at 6:00 PM

Town Hall Commission Chamber, 535 Park Avenue, Lake Park, FL 33403

Brady Drew	—	Chair
Gillian Kennedy Wright	—	Vice-Chair
Lauren Paxton	—	Board Member
Shana Phelan	—	Board Member

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision of the Tree Board, with respect to any matter considered at this meeting, such interested person will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Persons with disabilities requiring accommodations in order to participate in the meeting should contact the Town Clerk's office by calling 881-3311 at least 48 hours in advance to request accommodations.

CALL TO ORDER/ROLL CALL

PLEDGE OF ALLEGIANCE

PRESENTATIONS:

- 1.** Presentation and Project Update Associated with the Planned Hardscape and Landscape Improvements Along the 700, 800, and 900 blocks of Park Avenue.

CONSENT AGENDA:

- 2.** April 11 2023 Tree Board Meeting Minutes.

NEW BUSINESS: NONE

PUBLIC COMMENT:

This time is provided for addressing items that do not appear on the Agenda. Please complete a comment card and provide it to the Agency Clerk so speakers may be announced. Please remember comments are limited to a TOTAL of three minutes.

COMMITTEE MEMBER COMMENTS:

STAFF MEMBER COMMENTS:

ADJOURNMENT:

FUTURE MEETING DATE: The next scheduled Tree Board Meeting will be conducted on October 10, 2023.



Town of Lake Park Tree Board

Agenda Request Form

Meeting Date: September 12, 2023
Originating Department: Public Works
Agenda Title: Presentation and Project Update Associated with the Planned Hardscape and Landscape Improvements Along the 700, 800, and 900 blocks of Park Avenue.

Approved by Town Manager: _____ **Date:** _____

Cost of Item: N/A **Funding Source:** N/A
Account Number: N/A **Finance Signature:** _____

Advertised: N/A
Date: N/A **Newspaper:** N/A

Attachments:

1. Agenda Request Form
2. Final Park Avenue Hardscape Architectural Design Plans
3. Final Park Avenue Landscape Architectural Design Plans
4. Other Supporting Documentation

Please initial one:
 _____ Yes, I have notified everyone

Not applicable in this case

Summary Explanation/Background:

The Town of Lake Park and the Lake Park Community Redevelopment Agency (CRA) understand the importance of presenting an exceptional and inviting look and feel in its Downtown District.

It is with that understanding that in the Fall of 2021, the CRA Executive Director requested Agency staff to work in conjunction with JMorton, the Town's Landscape Architect, to develop preliminary conceptual designs for the proposed landscape and hardscape enhancements at Park Avenue (from 7th Street, west to 10th Street) and at 10th Street (from Park Avenue, north

to Northern Drive).

All of the project scope is located within the Community Redevelopment Agency's (CRA) area of responsibility (*Figure 1*) and the Park Avenue portion of this project is within the Park Avenue Downtown District (PADD).

JMorton Planning & Landscape Architecture is a sub-consultant to Engenuity Group, with whom the Town currently has an active five (5) year continuing services agreement under approved Resolution No. 76-11-18.

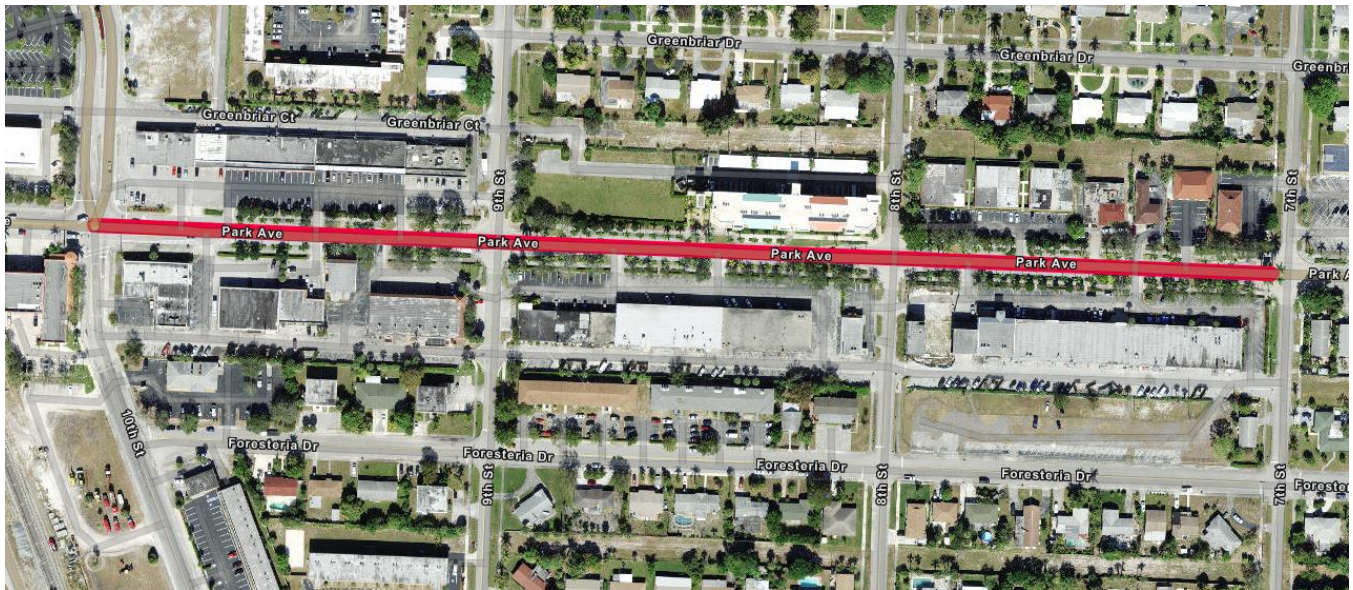


Figure 1.

In March 2022, Agency and JMorton staffs presented conceptual designs of the proposed streetscape improvements to the CRA Board and received the following direction:

- Design project to be implementable in phases for maximum fiscal flexibility.
- Develop and present estimated implementation costs.
- Obtain and incorporate public input/preferences through design and implementation.

Subsequently, Town and JMorton staff coordinated and held a public workshop on January 24, 2022, to present the conceptual design alternatives to the public and collect feedback from stakeholders. The Public Workshop provided useful enhancement and design element feedback that was later incorporated as the streetscape design was further refined.

Furthermore, on March 16, 2022, the CRA Board approved Resolution 13-03.22, authorizing a contract in the amount of \$42,875.00, for JMorton to develop 100% construction ready plans to complete the Project, while incorporating the comments and feedback obtained through the Public Workshop.

At this time, JMorton has developed and submitted a complete set of plans for the Project.

Due to budget constraints, only the Park Avenue portion (Phase 1) of the project will be completed during early Fiscal Year 2024. The 10th Street portion (Phase 2) will be budgeted for

completion during FY-2025.

Finally, Agency Staff has published a solicitation for qualified contractors to construct Phase 1 of the Project, based on the submitted plans. Phase 1 of the Project is expected to be completed prior to the 2023 Holiday Season.

During the September 12, 2023, meeting of the Tree Board, Agency Staff will be available to review the Phase 1 streetscape design plans and address questions from the Board.

Recommended Motion:

For discussion only. There is no motion recommended for this agenda item.

CONSTRUCTION BID PLAN

SEAL:

NAME LA

REVISIONS

6/13/2023 FINAL CD PLAN

Landscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

FILE | G210.21 - LPStreetscape - LA

DATE | 2021-09-09

PARK AVENUE STREETSCAPE RENOVATION
PAVER HARDSCAPE AND LANDSCAPE PLANS
FINAL CONSTRUCTION BID PLAN
LAKE PARK, FLORIDA

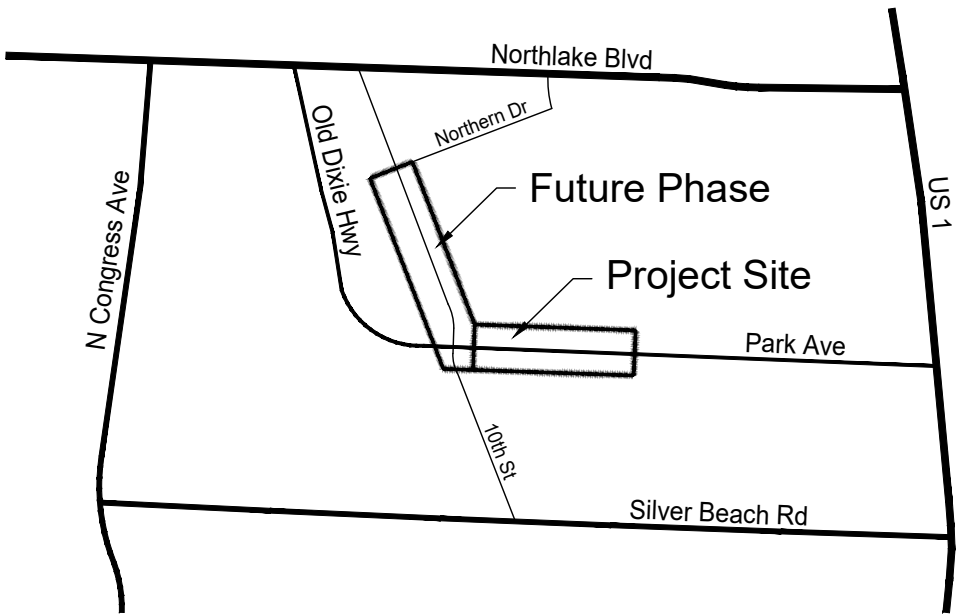


SHEET KEY MAP
PLAN

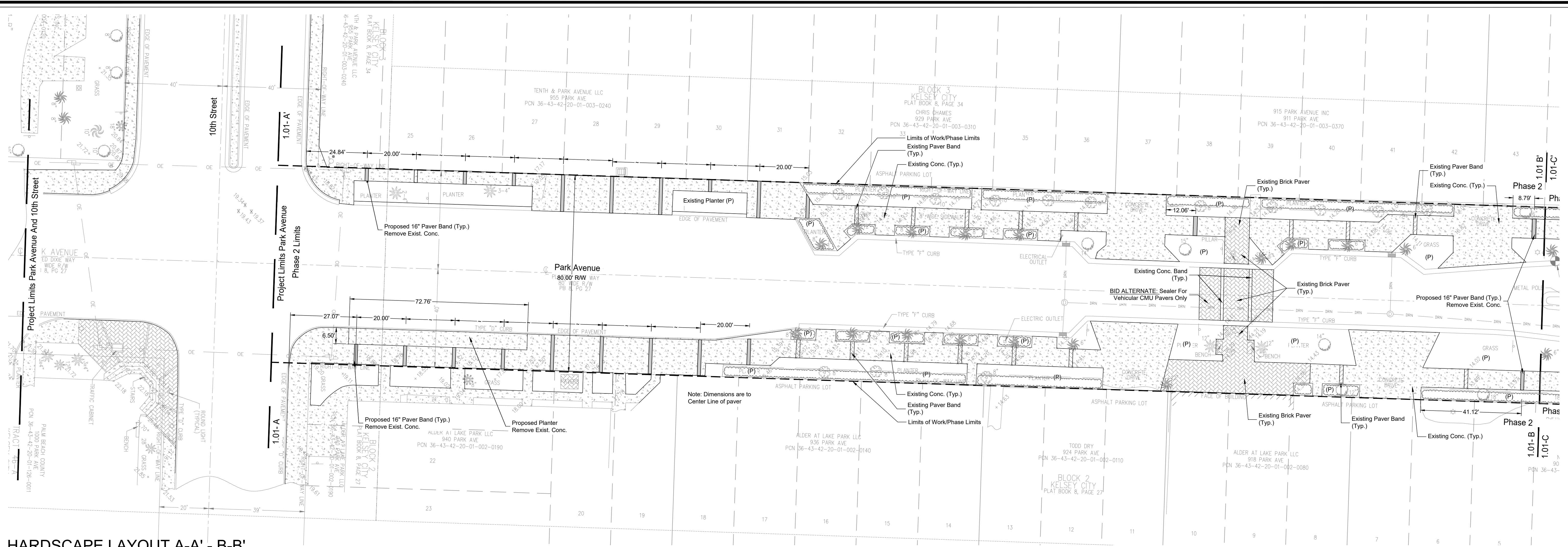
SHEET INDEX

L1.00.....	Sheet Key Map
H1.01 - H1.02.....	Paver Hardscape Plan
H1.03.....	Paver Specifications
H1.04.....	Paver Sealer Specifications
L-1.01 - L1.02.....	Landscape Plan
L1.03.....	Plant List and Planting Details
L1.04 - L1.09.....	Landscape Specifications

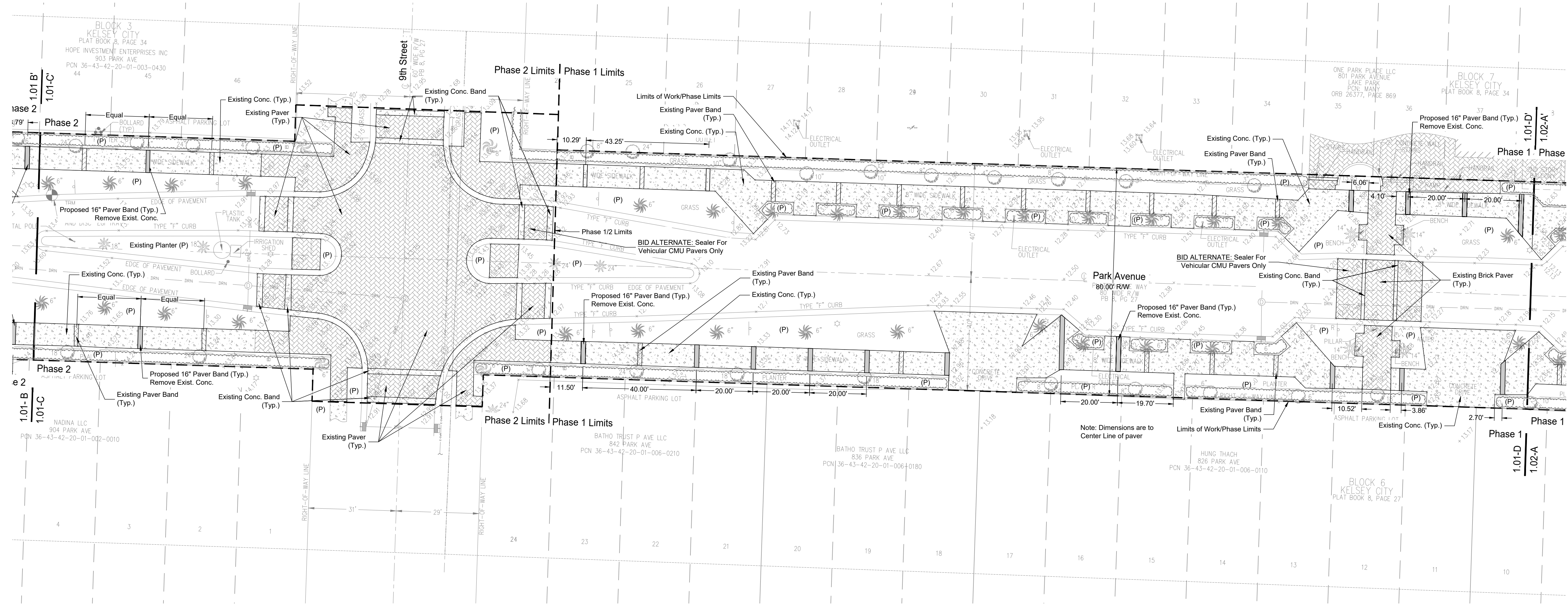
Location Map NTS



COVER SHEET

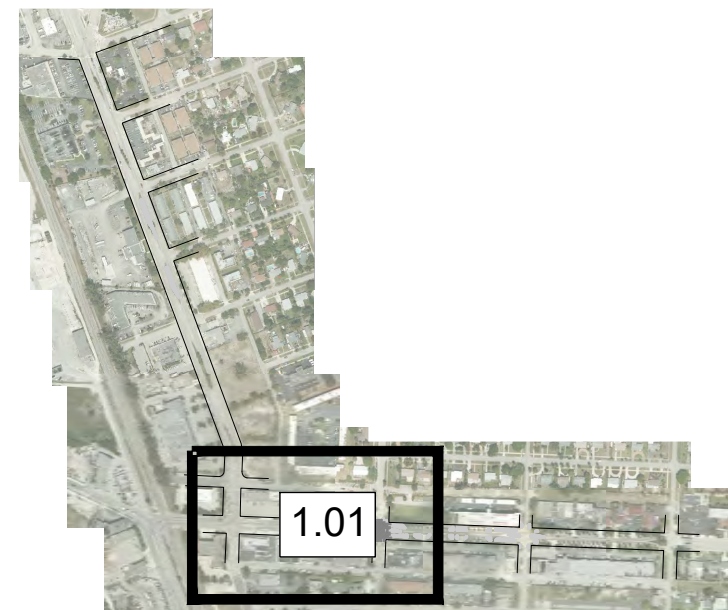


HARDSCAPE LAYOUT A-A' - B-B'
PLAN
SCALE 1" = 20'

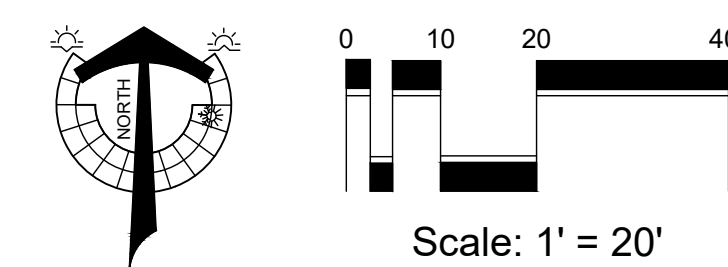


HARDSCAPE LAYOUT C-C' - D-D'
PLAN
SCALE 1" = 20'

- Graphic Legend**
- Existing to Remain
- Concrete
 - Brick or CMU Paver
 - Paver Band
- Proposed
- Paver Band



Key Map



Scale: 1' = 20'
PAVER HARDSCAPE PLAN

Park Avenue Streetscape

Prepared for Town of Lake Park

Lake Park, Florida

CONSTRUCTION BID PLAN

SEAL:

NAME LA

REVISIONS

12/14/2022 60% HARDSCAPE CONCEPT

6/13/2023 FINAL CD PLAN

Park Avenue Hardscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

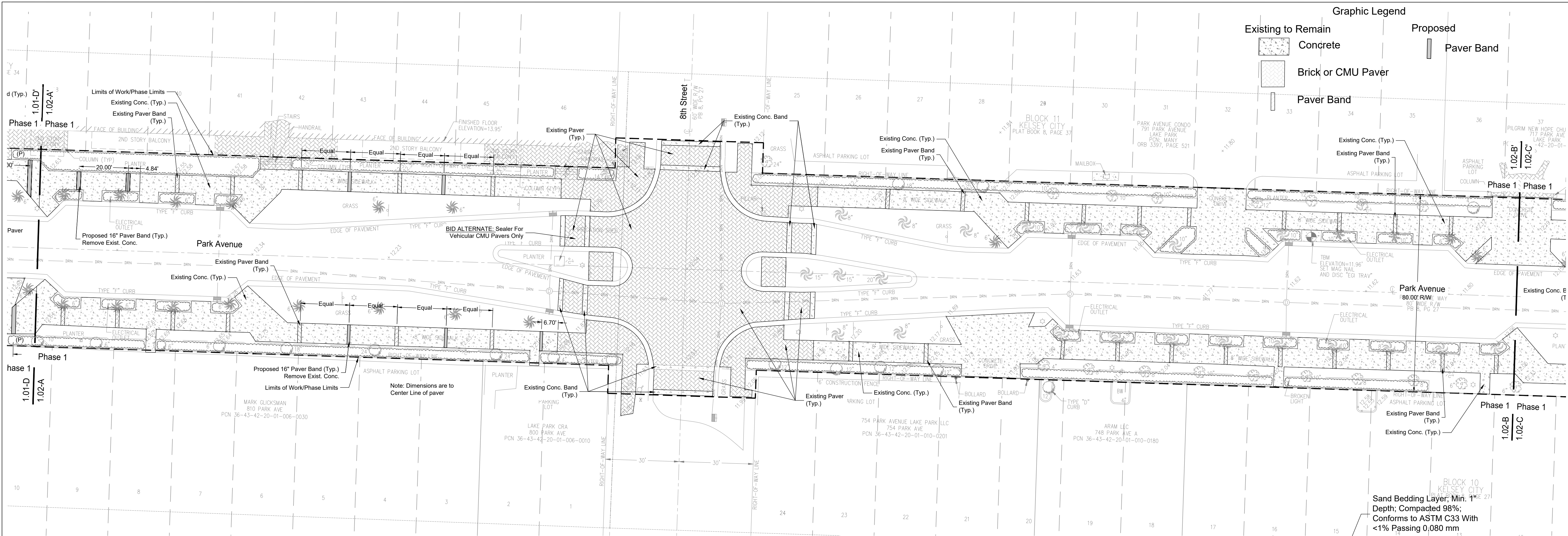
FILE | G210.21 - LPS Streetscape - LA

DATE | 2021-09-20

Park Avenue Streetscape

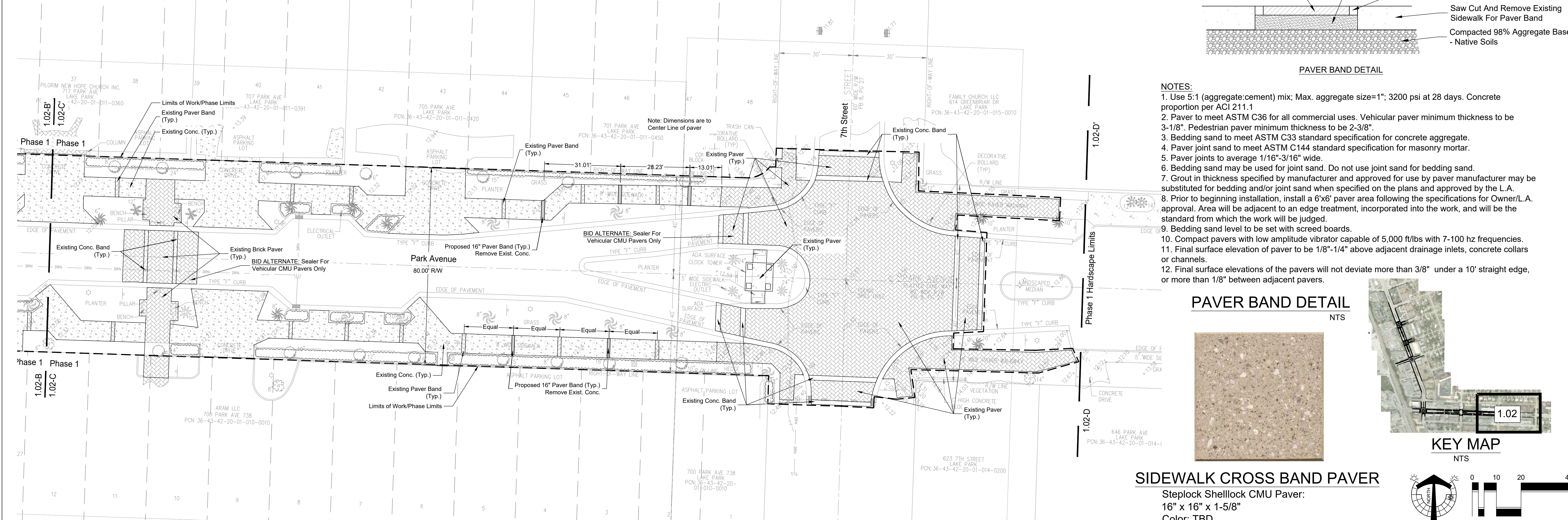
Prepared for Town of Lake Park

Lake Park, Florida



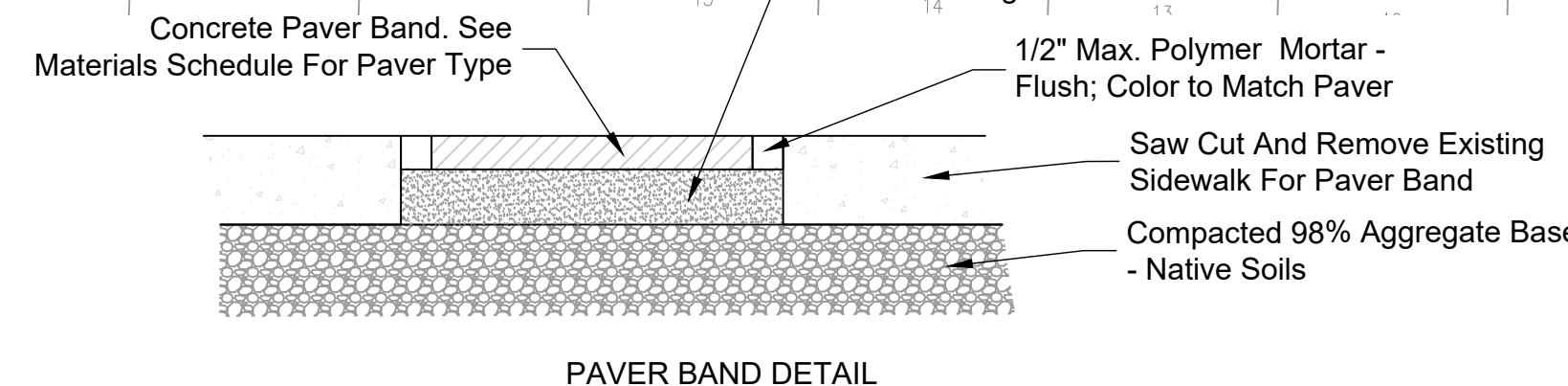
HARDSCAPE LAYOUT A-A' - B-B'

PLAN SCALE 1" = 20'



HARDSCAPE LAYOUT C-C' - D-D'

PLAN SCALE 1" = 20'



- NOTES:**
1. Use 5:1 (aggregate:cement) mix; Max. aggregate size=1"; 3200 psi at 28 days. Concrete proportion per ACI 211.1
 2. Paver to meet ASTM C36 for all commercial uses. Vehicular paver minimum thickness to be 3-1/8". Pedestrian paver minimum thickness to be 2-3/8".
 3. Bedding sand to meet ASTM C33 standard specification for concrete aggregate.
 4. Paver joint sand to meet ASTM C144 standard specification for masonry mortar.
 5. Paver joints to average 1/16"-3/16" wide.
 6. Bedding sand may be used for joint sand. Do not use joint sand for bedding sand.
 7. Grout in thickness specified by manufacturer and approved for use by paver manufacturer may be substituted for bedding and/or joint sand when specified on the plans and approved by the L.A.
 8. Prior to beginning installation, install a 6'x6' paver area following the specifications for Owner/L.A. approval. Area will be adjacent to an edge treatment, incorporated into the work, and will be the standard from which the work will be judged.
 9. Bedding sand level to be set with screed boards.
 10. Compact pavers with low amplitude vibrator capable of 5,000 ft/lbs with 7-100 hz frequencies.
 11. Final surface elevation of paver to be 1/8"-1/4" above adjacent drainage inlets, concrete collars or channels.
 12. Final surface elevations of the pavers will not deviate more than 3/8" under a 10' straight edge, or more than 1/8" between adjacent pavers.

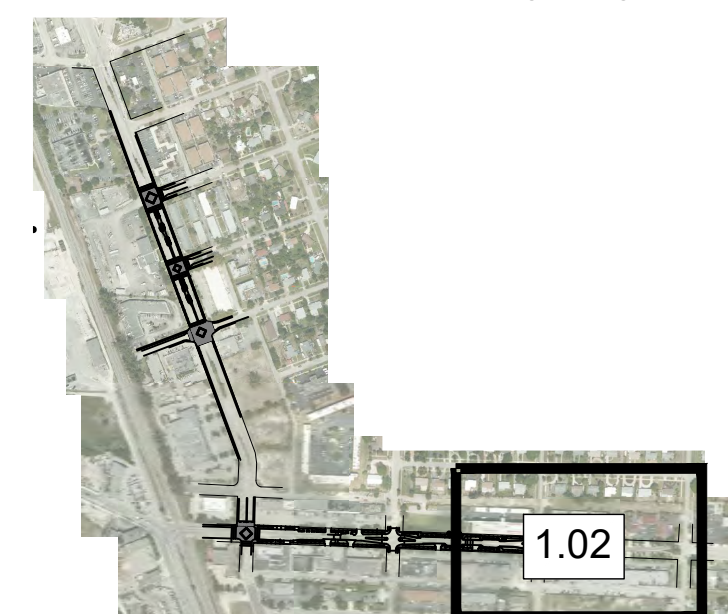
PAVER BAND DETAIL

NTS



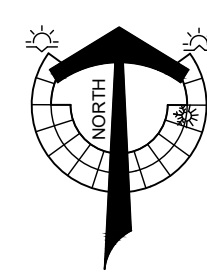
SIDEWALK CROSS BAND PAVER

Steplock Shelllock CMU Paver:
16" x 16" x 1-5/8"
Color: TBD
Artistic Pavers (305) 653-7283



KEY MAP

NTS



Scale: 1" = 20'

PAVER HARDSCAPE PLAN

CONSTRUCTION BID PLAN

SEAL:

NAME LA

REVISIONS

12/14/2022 80% HARDSCAPE CONCEPT

6/13/2023 FINAL CD PLAN

Park Avenue Hardscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

FILE | G210.21 - LPS Streetscape - LA

DATE | 2021-09-20

H1.02

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE LANDSCAPE ARCHITECT'S WRITTEN PERMISSION.



Park Avenue Streetscape
Prepared for Town of Lake Park
Lake Park, Florida

CONSTRUCTION BID PLAN

SEAL:

NAME LA

REVISIONS

12/14/2022 80% HARDSCAPE CONCEPT

6/13/2023 FINAL CD PLAN

Park Avenue Hardscape Plan

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PAVER HARDSCAPE SPECIFICATIONS

H1.04

SECTION 07 19 00

CONCRETE SEALER

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from the following manufacturer:
Eco-Wares/Envirosafe Mfg. 7634-B Progress Circle, West Melbourne, FL. 32904
Service: 866- 874-8070
Internet: www.eco-ware.com
- B. Substitutions: Only as allowed in writing per the Town of Lake Park or designated representative.
- C. Specifications and Drawings are based on a minimum levels of material and detailing indicated in Specifications or on Drawings. The Town of Lake Park or the designated representative will be sole judge of appropriateness of substitutions.

MATERIALS

2.2

- A. High-performance, penetrating water dispersed polyester polymer and water-borne polyurethane that when dry, fills the voids and coats the interior particles of the matrix on concrete surfaces preventing damage from freeze/thaw cycles. Safe for indoor or exterior use.
- Acceptable Product: Trojan Masonry & Concrete Sealer
- B. Sealer shall have the following minimum performance:
- Flash Point: non-flammable
 - State: Liquid
 - Color: Translucent – No color
 - Vapor Pressure: (Air + 1) - N/A
 - Solubility in Water: Dilutable
 - Boiling Point: 100 degrees Celsius / 212 degrees Fahrenheit
 - Freezing Point: 0 degrees Celsius / 32 degrees Fahrenheit Water
 - Specific Gravity: (Water=1) - 1.10 @ 20 degrees Celsius
 - Evaporation Rate: (BAC=1) - Same as Water
 - Percent Solids by Weight: 10.5%
 - pH: 6.8
 - Volatile Organic Compounds: 5.9 g/L
 - Freeze Thaw Resistance: Improved verifiable resistance under test conditions.
- C. Low Gloss Finish Sealer: High-performance, penetrating water dispersed polyester polymer and water-borne polyurethane that when dry, fills the voids and coats the interior particles of the matrix on concrete surfaces with acrylic added to the formula that settles on the surface to provide a low gloss sheen. Safe for indoor or exterior use.
- Acceptable Product: Trojan Ultra Masonry Sealer
- D. Sealer shall have the following minimum performance:
- Flash Point: non-flammable
 - State: Liquid
 - Color: Milky in container. Dries with a clear low gloss, satin finish
 - Vapor Pressure: (Air + 1) - N/A
 - Solubility in Water: Dilutable
 - Boiling Point: 100 degrees Celsius / 212 degrees Fahrenheit
 - Freezing Point: 0 degrees Celsius / 32 degrees Fahrenheit (Water)
 - Specific Gravity: (Water=1) - 1.10 @ 20 degrees Celsius
 - Evaporation Rate: (BAC=1) - Same as Water
 - Percent Solids by Weight: 29%
 - pH: 6.8
 - Volatile Organic Compounds: 54.5g/L
 - Freeze Thaw Resistance: Improved verifiable resistance under test conditions.
- E. Color Sealer: High-performance, penetrating water dispersed polyester polymer and water-borne polyurethane that when dry, fills the voids and coats the interior particles of the matrix. Includes UV resistant color stain applied to any porous surface including, concrete surfaces and pavers. Safe for indoor or exterior use.
- Acceptable Product: Trojan Color Sealer
 - Color Selection: As approved by the Town of Lake Park or designated representative.
- F. Sealer shall have the following minimum performance:
- Flash Point: non-flammable
 - State: Liquid
 - Appearance: Colored liquid (various)
 - Vapor Pressure: (Air + 1) - N/A
 - Solubility in Water: Infinite
 - Boiling Point: 100 degrees Celsius / 212 degrees Fahrenheit
 - Freezing Point: 0 degrees Celsius / 32 degrees Fahrenheit Water
 - Specific Gravity: (Water =1) - 1.10
 - pH: 6.8
 - Volatile Organic Compounds: 5.9 g/L
 - Percent Solids by Weight: 12% - 19% (Varies by color and finish)
 - Freeze Thaw Resistance: Improved verifiable resistance under test conditions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. OMIT

3.2 SURFACE PREPARATION

- A. Prepare surfaces in accordance with manufacturer’s instructions.
- B. Surfaces shall be clean. Remove dust, dirt, oil, grease, chemical films, coatings and other contaminants before application.
- C. If surface does NOT absorb water, then there is possibly another sealer applied to the surface and sealer should not be applied until original sealer is removed.
- D. Exterior Surfaces: In all cleaning cases rinse well using 3000 psi pressure washer and allow to dry thoroughly before application.
- E. Interior Surfaces: use a wet vacuum to remove excess water.

3.3 APPLICATION

- A. Apply sealer in accordance with manufacturer’s instructions.
- B. Stir material thoroughly before and during application.
- C. Back-roll to even out the material and to remove any puddles in low spots.
- D. On some historic, old and extremely porous surfaces a second coat of either plain Trojan or Trojan Color may need to be applied to completely seal the surface.
- E. Surface minimum temperature must be above 45 degrees F before application.
- F. Allow to dry thoroughly before traffic is allowed onto floor.
- G. Trojan Masonry & Concrete Sealer: To paint over a Trojan treated area use only a good quality acrylic, oil-base, epoxy or urethane paint. Do not use latex paint over a Trojan coated surface since latex paint makes a weak bond especially in exterior applications. On new Concrete, Let dry and cure for 21-28 days depending on temperature and humidity.
- H. Trojan Color Sealer: should not be applied to a hot surface in the sun. Flash drying will occur and the affect will be uneven color with overlap marks. Always maintain a ‘wet edge’ when applying this product. On new concrete, (under 2 years of age), a pH reading should be taken before starting application to be sure that the pH is between 6 & 8. If it is not, then Enviro Etch should be applied to the surface. Rinse and allow to dry and re-take the pH reading.
- OMIT
 - Apply Trojan Color Sealer with a low-pressure sprayer. Trojan Color Sealer should be applied liberally to allow the surface to drink as much as possible without leaving puddles.

3.4 SAFETY

- A. Safe storage, handling and use dictate that adequate health and safety precautions be observed with this product. User is specifically directed to consult the current Material Safety Data Sheet for this product as well as precautions contained on product labeling.

3.5 PROTECTION

- A. Protect sealer from damage during construction.

END OF SECTION

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Prepared for Town of Lake Park
Lake Park, Florida

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SEAL:

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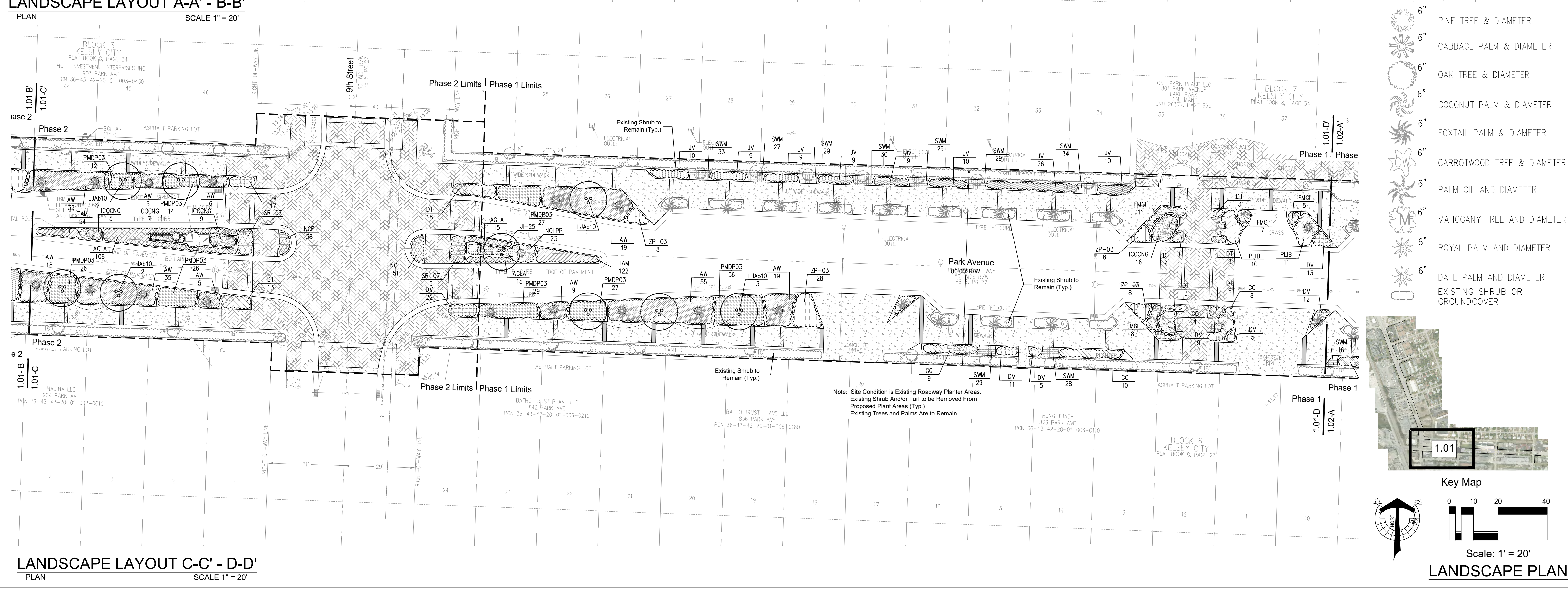
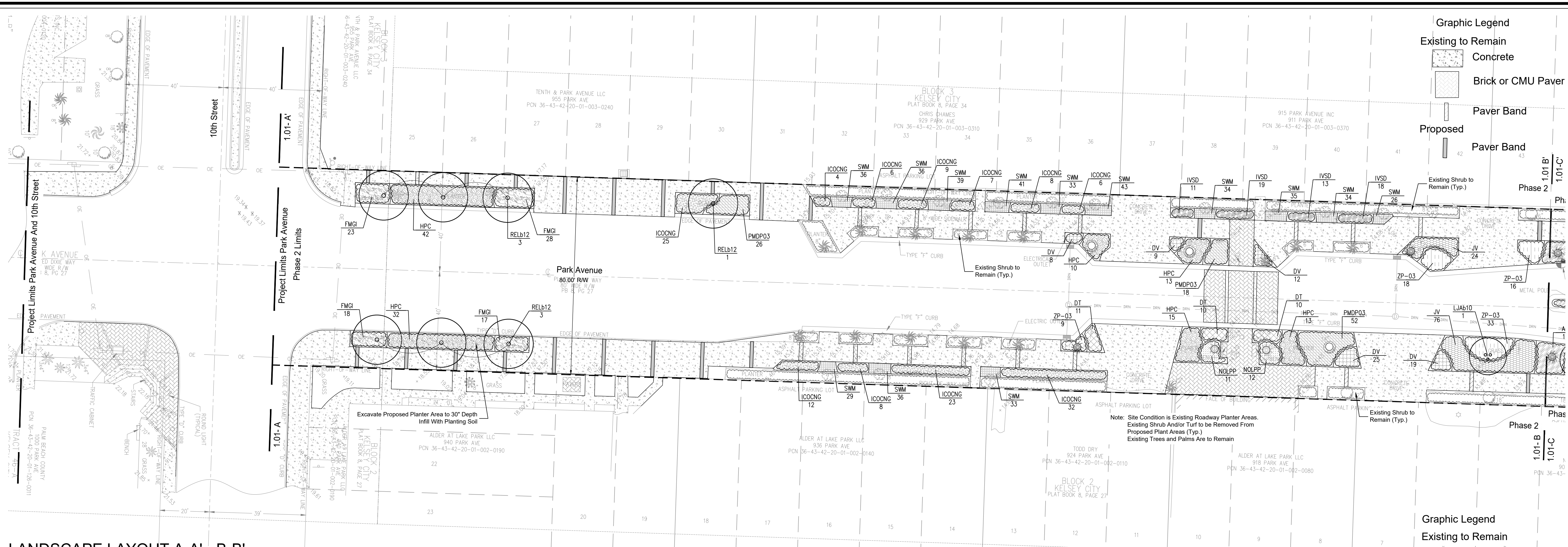
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DATE |

2021-09-20

L1.01



PLANT LIST

Trees

Symbol	Qty	CommonName	LatinName	Size	Additional Spec	Native	Dro. Tol. (LMH)	Space
CEb12	4	Buttonwood	Conocarpus erectus	B&B; 12x6"; 3" Cal.; 4' C.T.; Standard		N	H	A.S.
JI-25	5	Jatropha	Jatropha integririma 'Compacta'	25-B&B; 7x4'; 2' C.M.T.; Full			M	A.S.
LJAb10	19	Japanese Privet	Ligustrum japonicum	B&B; 10"x8"; 4' C.M.T.;	3-4 Major Trunks; Specimen		H	A.S.
PDM-12	1	Medjool Dactylifera Palm	Phoenix dactylifera 'Medjool'	12' C.W.; Classic-Cut			H	A.S.
RELB12	7	Florida Royal Palm	Roystonea elata	B&B; 12' Gray Wood;	Nursery-Grown	N	H	A.S.

Shrubs

Symbol	Qty	CommonName	LatinName	Size	Additional Spec	Native	Dro. Tol. (LMH)	Space
AGLA	284	Flowering Peanut	Arachis glabrata	1-Gal.; Full			H	18" O.C.
ANN	321	Annuals		Seasonal; Selected by Owner;	4" Pots		L	6" O.C.
AW	303	Copper Leaf	Acalypha wilkesiana	3-Gal.; 2' O.A.; Full			M	36" O.C.
DT	153	Striped Flax Lily	Dianella tasmanica 'Variegata'	3-Gal.; 18"x18"; Full			H	24" O.C.
DV	337	White African Iris	Dietes vegetata	1-Gal.; 14" O.A.; 3 P.P.P.; Full			M	18" O.C.
FMGI	266	Green Island Ficus	Ficus microcarpa 'Green Island'	3-Gal.; 12"x12"; 7 PPP; Full			H	24" O.C.
GG	31	Thyriallis	Galphimia gracilis	3-Gal.; 30"x24"			M	36" O.C.
HPG	125	Dwarf Firebush	Hamelia patens 'Compacta'	3-Gal.; 18"x15"		N	H	18" O.C.
ICOCNG	427	Red Ikora	Ixora coccinea 'Nora Grant'	3-Gal.; 18"-24"			M	24" O.C.
IVSD	164	Stokes Dwarf Yaupon Holly	Ilex vomitoria 'Stokes Dwarf'	3-Gal.; 14"x14"; Full		N	H	18" O.C.
JV	448	Wax Jasmine	Jasminum volubile	3-Gal.; 16"x16"			M	24" O.C.
LMUEG	91	Emerald Goddess Border Grass	Liriope muscar 'Emerald Goddess'	1-Gal.; 9 P.P.P.; Full			H	18" O.C.
MC-03	92	Muhly Grass	Muhlenbergia capillaris	3-Gal.; Full		N	H	24" O.C.
NCF	134	Fireball Bromeliad	Neoregelia aechmea 'Fireball Superb'	4" Pot; 3 P.P.P; Full;			H	12" O.C.
NOLPP	253	Dwarf Pink Oleander	Nerium oleander 'Petite Pink'	3-Gal.; 24"x18"			M	24" O.C.
PL-03	103	Bahama Coffee	Psychotria ligustrifolia	3-Gal.; 24"x24"		N	H	36" O.C.
PLIB	48	Blue Plumbago	Plumbago 'Imperial Blue'	3-Gal.; 24" O.A.; Full			M	36" O.C.
PMDP03	382	Pringles Yew Podocarpus	Podocarpus macrophyllus 'Dwarf Pringles'	3-Gal.; 18"x18"			H	24" O.C.
SR-07	26	Bird of Paradise	Strelitzia reginae	7-Gal.; 30" O.A; Full;	Multi-Trunk; Sun-Grown		M	30" O.C.
TAM	561	Dwarf Minima Jasmine	Trachelospermum asiaticum 'Minima'	1-Gal.; 18" Spread; Full			M	12" O.C.
TV	263	Society Garlic	Tulbaghia violacea	1 Gal.; Full		N	H	12" O.C.
VO-03	24	Walter's Viburnum	Viburnum obovatum	3-Gal.; 24"x24"; Full to Base		N	H	36" O.C.
ZP-03	260	Coontie Fern	Zamia pumila	3-Gal.; 18"x18"		N	H	24" O.C.

Turf and Mulch

SSF	TBD	Floratam St. Augustine Sod	Stenotaphrum secundatum 'Floratam'	Solid Sod		S.F.
SWM	TBD	0 Shredded Wood Mulch		3"-Thick Mat; Grade A EcoMulch; Natural Melaleuca or Eucalyptus		S.F.

Plant List Notes

Container sizes if shown above, are intended as a suggestion only. The plant height, spread and caliper are the controlling specifications.

Quantities (Qty), if shown above, are presented as a courtesy and shall not be relied upon for the purposes of estimating, bidding or purchasing of labor and/or materials. Sod & Mulch quantities represent square feet.

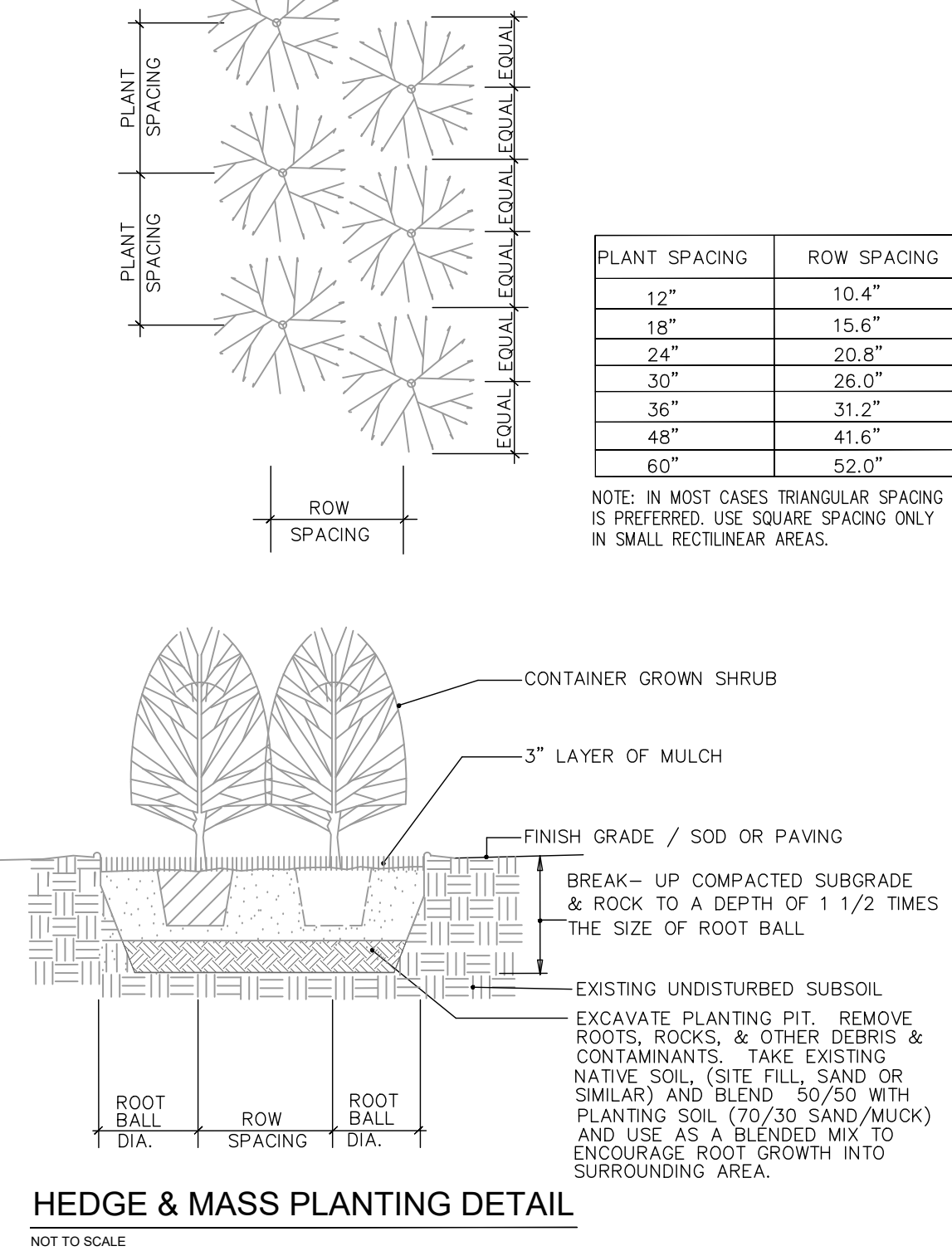
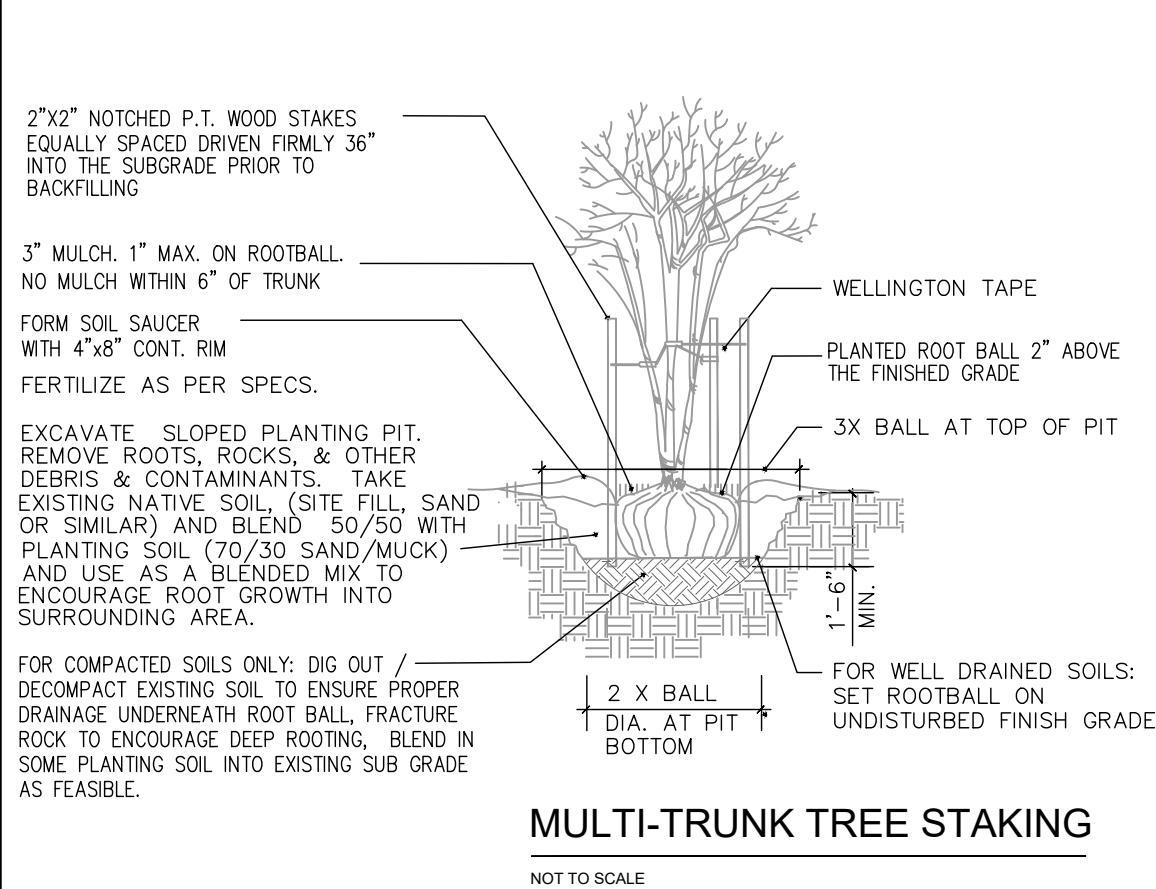
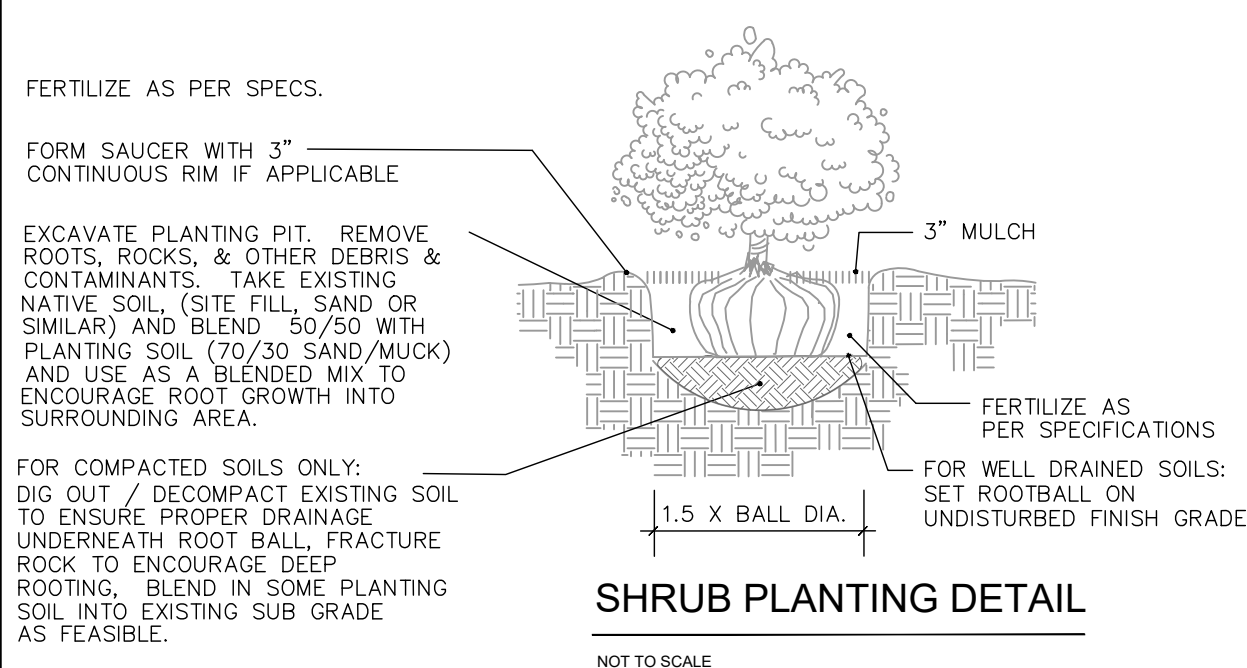
Any interested party shall derive actual quantities by performing a thorough and complete review of the Landscape Plan(s) with adequate consideration given to all information in the Plant List above excluding quantities.

In the event of a discrepancy between the plant list and plan count, the plans shall control.

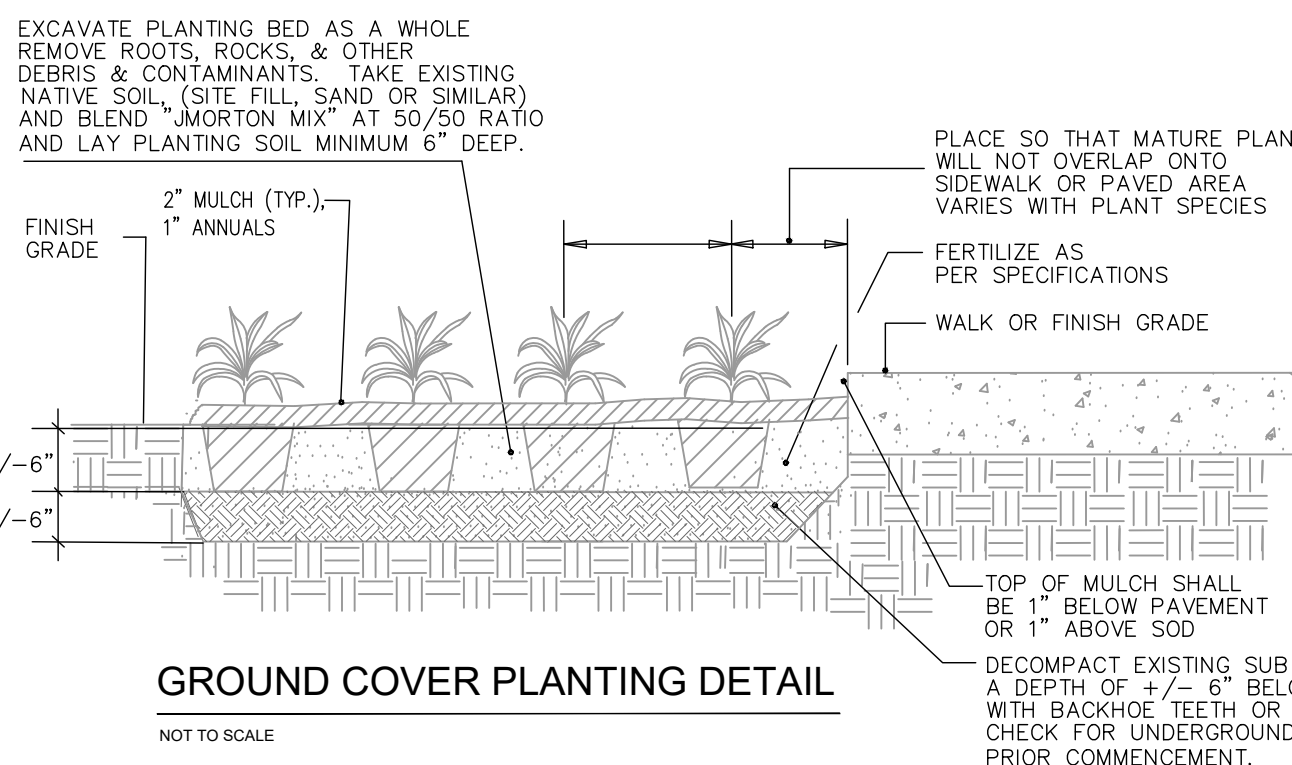
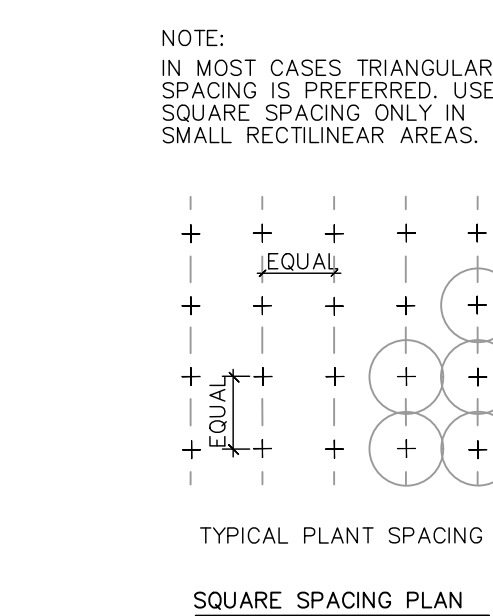
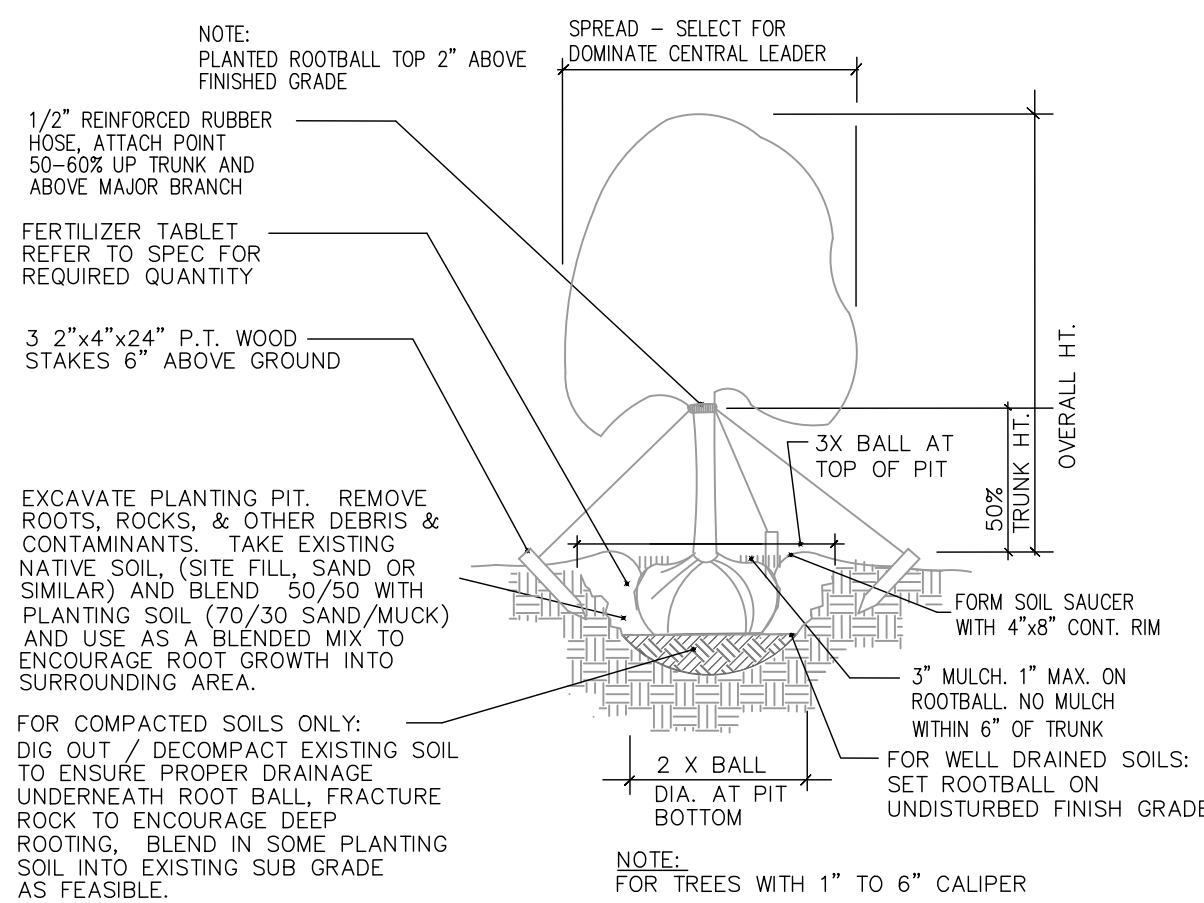
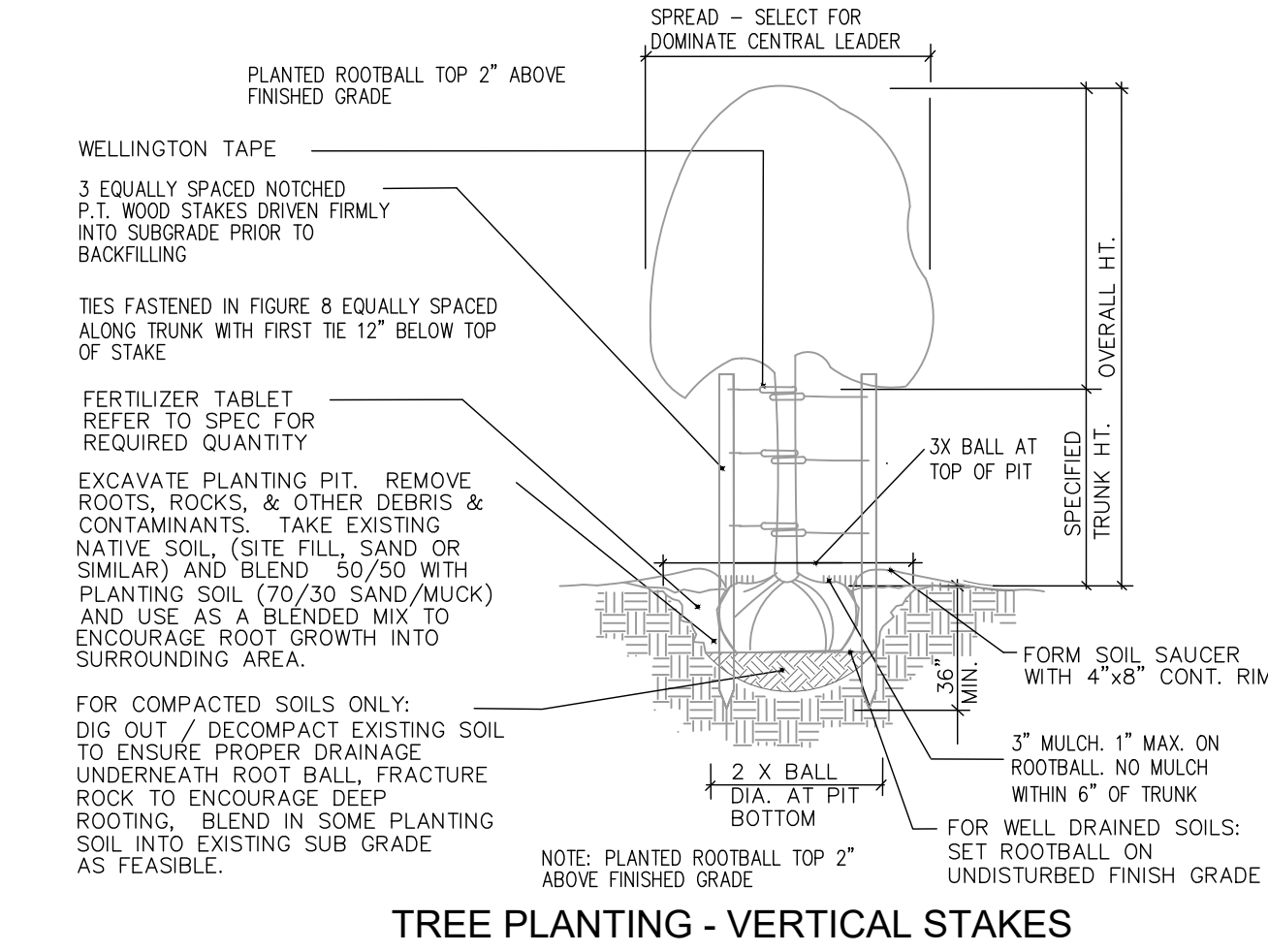
Turf quantity is approximate. Turf required is to be based on field conditions at time of installation.

Native = (N); designation from the SFWMD Waterwise Guide, South Florida Edition, and UF Hort. Data Base

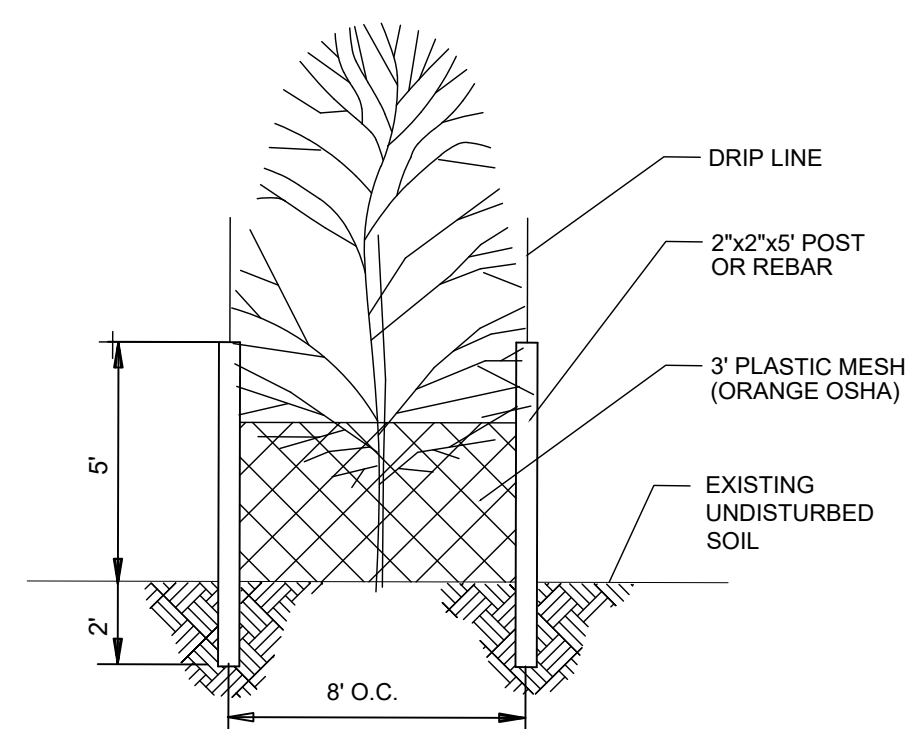
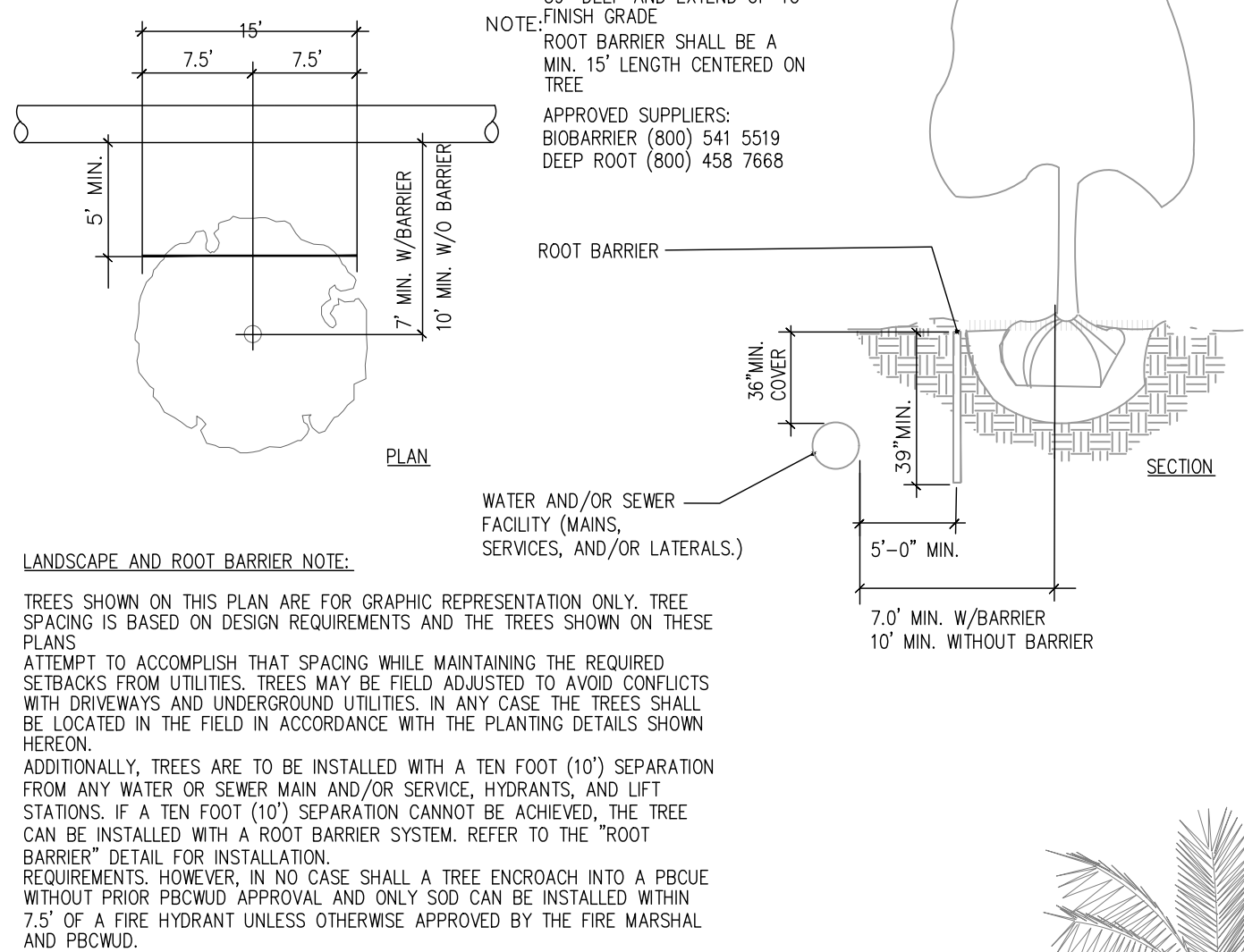
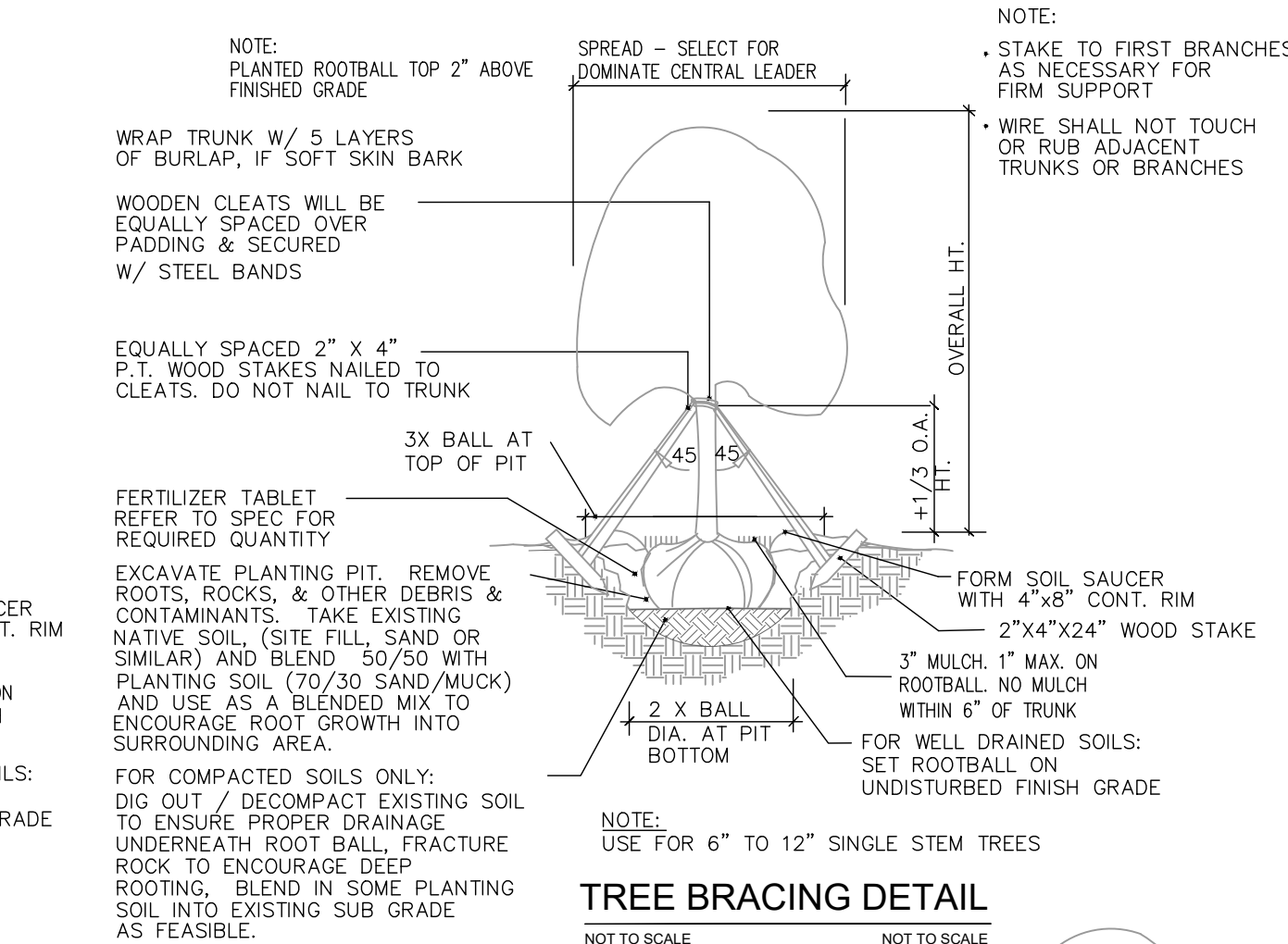
Drought tolerance (Dro. Tol.): L= Low, M = Moderate, H = High. Designation from the SFWMD Waterwise Guide, South Florida Edition, and UF Hort. Data Base



CALIPER	TIES	STRANDS	STAKES
1" - 1 1/2"	2	1 # 12	2 - 2 X 2
1 1/2" - 2"	3	1 # 12	2 - 2 X 2
2" - 3"	3	2 # 12	3 - 2 X 2
3" - 6"	3	2 # 12	3 - 2 X 2



CALIPER	CLEATS	STRAPS	BRACES	NAILS
4" - 8"	2 x 4 x 8"	1 # 12	3 - 2 X 4	2 - 16d
8" - 10"	2 x 4 x 12"	1 # 12	3 - 2 X 4	3 - 16d
10" - 16"	2 x 4 x 12"	2 # 12	4 - 2 X 4	3 - 16d



Trees

- Trees**
- A. Trees to be preserved shall be barricaded with a 3 foot high plastic mesh (orange OSHA) supported by 5 foot long rebar or 2" x 2" wood stakes or equivalent if approved in conjunction with the Final Site Plan or Final Subdivision Plan.
- B. Trees to be preserved at a lower final grade may be protected with a 24 inch high silt fence around the preserve area or Trees with the addition of the 3 foot high plastic mesh, if needed.
- C. If hand clearing is necessary within the preserve area or under the Tree canopy, Trees to be preserved can initially be delineated by plastic ribbon affixed to survey stakes (to avoid putting up and taking down fencing) and then protected with either plastic mesh and/or the silt fence.
- D. Trees to be relocated can usually be delineated by plastic ribbon affixed to survey stakes unless their relocation is delayed due to root pruning. If root pruning is required, the Trees shall be protected with either plastic mesh and/or silt fence.

VEGETATION BARRICADE DETAIL

Notes

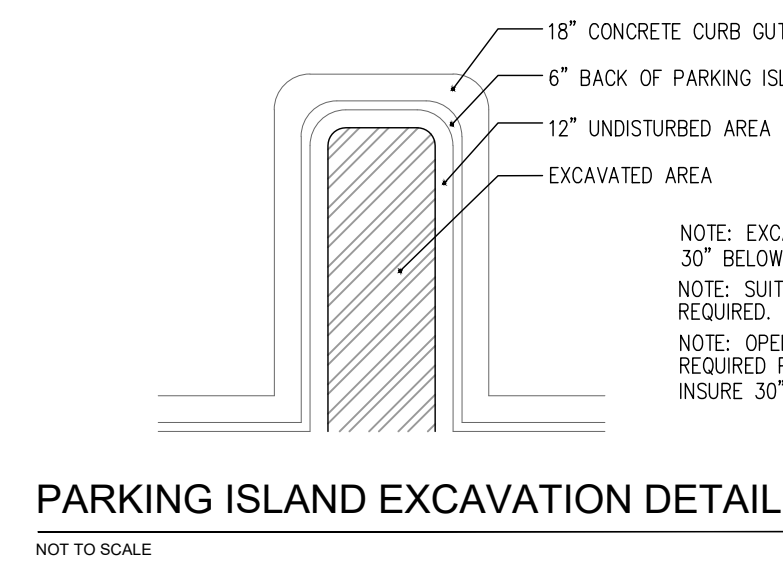
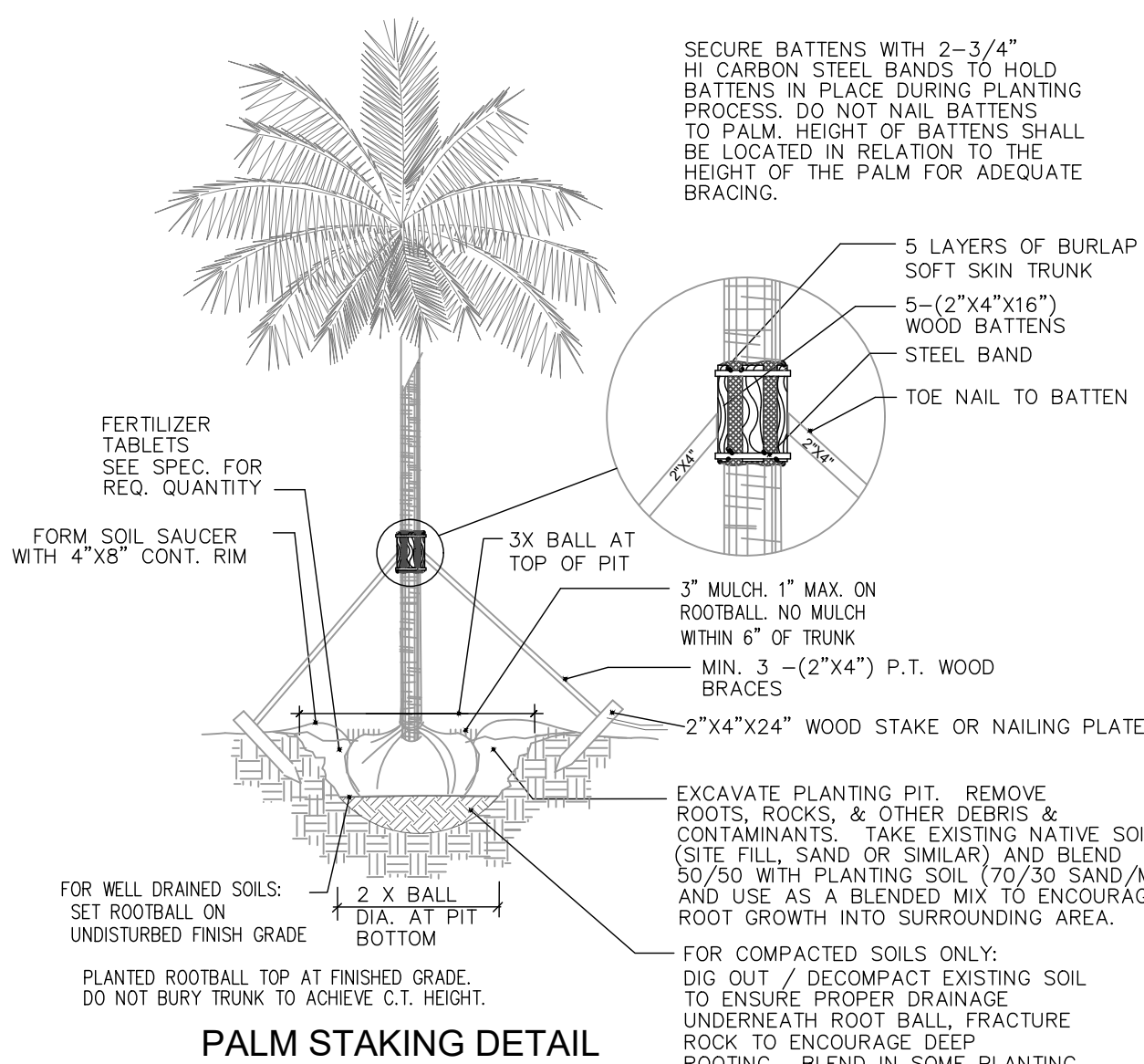
1. The final site plan grades have been established to maintain the existing natural grade conditions for the buffer areas.

2. All existing Native Vegetation will be used to meet the perimeter buffer requirements. In the condition where the Native Vegetation does not meet the perimeter buffer requirements, additional code compliant plant material will be installed within the perimeter buffer areas with irrigation as required for a supplemental water source for the proposed plant material.

Notes

1. GUYING WIRES OR RUBBER TUBING CAN BE SUBSTITUTED FOR WELLINGTON TAPE FOR BRACING TREES WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT

SECURE BATTENS WITH 2-3/4" HI CARBON STEEL BANDS TO HOLD BATTENS IN PLACE DURING PLANTING PROCESS. DO NOT NAIL BATTENS TO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.



LANDSCAPE PLANT LIST AND DETAILS

Park Avenue Streetscape

Prepared for Town of Lake Park

Lake Park, Florida

CONSTRUCTION BID PLAN

SEAL:

NAME	LA

REVISIONS
12/14/2022 80% HARDSCAPE CONCEPT
6/13/2023 FINAL CDD PLAN

Park Avenue Landscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

FILE | G210-121-LPSStreetscape - LA

DATE | 2021-09-20

L1.03

SPECIFICATIONS

EXISTING SHRUBS TO BE REMOVED
FROM THE PROPOSED PLANTER
AREAS SHOWN ON THE PLANS

SOIL MOISTURE

A. Volumetric soil moisture level, in both the planting soil and the root balls of all plants, prior to, during and after planting shall be above permanent wilting point and below field capacity for each type of soil texture within the following ranges.

Soil type	Permanent wilting point	Field capacity
Sand, Loamy sand, Sandy loam	5-8%	12-18%
Loam, Sandy clay, Sandy clay loam	14-25%	27-36%
Clay loam, Silt loam	11-22%	31-36%
Silty clay, Silty clay loam	22-27%	38-41%

1. Volumetric soil moisture shall be measured with a digital moisture meter. The meter shall be the Digital Soil Moisture Meter, DSMM500 by General Specialty Tools and Instruments, or approved equivalent.
B. The Contractor shall confirm the soil moisture levels with a moisture meter. If the moisture is too high, suspend planting operations until the soil moisture drains to below field capacity.

WATERING

A. The Contractor shall be fully responsible to ensure that adequate water is provided to all plants from the point of installation until the date of Substantial Completion Acceptance. The Contractor shall adjust the automatic irrigation system, if available, and apply additional or adjust for less water using hoses as required.
B. Hand water root balls of all plants to assure that the root balls have moisture above wilt point and below field capacity. Test the moisture content in each root ball and the soil outside the root ball to determine the water content.

SECTION 32 9100

PLANTING SOIL

PART 1 – GENERAL

1.1 SUMMARY

- A. The scope of work includes all labor, materials, tools, supplies, equipment, facilities, transportation and services necessary for, and incidental to performing all operations in connection with furnishing, delivery, and installation of Planting Soil and /or the modification of existing site soil for use as Planting Soil, complete as shown on the drawings and as specified herein.
- B. The scope of work in this section includes, but is not limited to, the following:
1. Locate, purchase, deliver and install Imported Planting Soil and soil amendments.
 2. Harvest and stockpile existing site soils suitable for Planting Soil.
 3. Modify existing stockpiled site soil.
 - a. Modify existing site soil in place for use as Planting Soil.
 - b. Install existing or modified existing soil for use as Planting Soil.
 4. Locate, purchase, deliver and install subsurface Drain Lines.
 5. Fine grade Planting Soil.
 6. Install Compost into Planting Soil.
 7. Clean up and disposal of all excess and surplus material.

1.2 CONTRACT DOCUMENTS

- A. Shall consist of specifications, general conditions, and the drawings. The intent of these documents is to include all labor, materials, and services necessary for the proper execution of the work. The documents are to be considered as one. Whatever is called for by any parts shall be as binding as if called for in all parts.

1.3 RELATED DOCUMENTS AND REFERENCES

- A. Related Documents:
1. Drawings and general provisions of contract, including general and supplementary conditions and Division I specifications, apply to work of this section.
 2. Related Specification Section
 - a. Section 32900 - Planting
 - b. Section 32930 – Lawn
- B. References: The following specifications and standards of the organizations and documents listed in this paragraph form a part of the Specification to the extent required by the references thereto. In the event that the requirements of the following referenced standards and specification conflict with this specification section the requirements of this specification shall prevail. In the event that the requirements of any of the following referenced standards and specifications conflict with each other the more stringent requirement shall prevail.
1. ASTM: American Society of Testing Materials cited section numbers.
 2. U.S. Department of Agriculture, Natural Resources Conservation Service, 2003. National Soil Survey Handbook, title 430-VI. Available Online.
 3. US Composting Council www.compostingcouncil.org and http://compostingcouncil.org/admin/wp-content/plugins/wp-pdfupload/pdf/191/LandscapeArch_Specs.pdf.
 4. *Methods of Soil Analysis*, as published by the Soil Science Society of America (<http://www.soils.org/>).
 5. Up by Roots: healthy soils and trees in the built environment. 2008. J. Urban. International Society of Arboriculture, Champaign, IL.

1.4 VERIFICATION

- A. All scaled dimensions on the drawings are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities, and shall immediately inform the Owner's Representative of any discrepancies between the information on the drawings and the actual conditions, refraining from doing any work in said areas until given approval to do so by the Owner's Representative.

1.5 PERMITS AND REGULATIONS

- A. The Contractor shall obtain and pay for all permits related to this section of the work unless previously excluded under provision of the contract or general conditions. The Contractor shall comply with all laws and ordinances bearing on the operation or conduct of the work as drawn and specified. If the Contractor observes that a conflict exists between permit requirements and the work outlined in the contract documents, the Contractor shall promptly notify the Owner's Representative in writing including a description of any necessary changes and changes to the contract price resulting from changes in the work.
- B. Wherever references are made to standards or codes in accordance with which work is to be performed or tested, the edition or revision of the standards and codes current on the effective date of this contract shall apply, unless otherwise expressly set forth.

- C. In case of conflict among any referenced standards or codes or among any referenced standards and codes and the specifications, the more restrictive standard shall apply or Owner's Representative shall determine which shall govern.

1.6 PROTECTION OF WORK, PROPERTY AND PERSON

- A. The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any damages or injury due to the Contractor's actions.

1.7 CHANGES IN WORK

- A. The Owner's Representative may order changes in the work, and the contract sum adjusted accordingly. All such orders and adjustments plus claims by the Contractor for extra compensation must be made and approved in writing before executing the work involved.
- B. All changes in the work, notifications and contractor's request for information (RFI) shall conform to the contract general condition requirements.

1.8 CORRECTION OF WORK

- A. The Contractor shall re-execute any work that fails to conform to the requirements of the contract and shall remedy defects due to faulty materials or workmanship upon written notice from the Owner's Representative, at the soonest possible time that can be coordinated with other work and seasonal weather demands but not more than 180 (one hundred and eighty) days after notification.

1.9 DEFINITIONS

- A. Acceptable drainage: Drainage rate is sufficient for the plants to be grown. Typical rates for installed Planting Soil are between 1 - 5 inches per hour. Turf soils are often higher, but drainage rates above 2 - 3 inches per hour will dry out very fast. In natural undisturbed soil a much lower drainage rate, as low as 1/8" inch per hour can still support good plant growth.
- B. Amendment: material added to Topsoil to produce Planting Soil Mix. Amendments are classified as general soil amendments, fertilizers, biological, and pH amendments.
- C. Biological Amendment: Amendments such as Mycorrhizal additives, compost tea or other products intended to change the soil biology.
- D. Compacted soil: soil where the density of the soil is greater that the threshold for root limiting, and further defined in this specification.
- E. Compost: well decomposed stable organic material as defined by the US Composting Council and further defined in this specification.
- F. Drainage: The rate at which soil water moves through the soil transitioning the soil from saturated condition to field capacity. Most often expressed as saturated hydraulic conductivity (Ksat; units are inches per hour).
- G. End of Warranty Acceptance: The date when the Owner's Representative accepts that the plants and work in this section meet all the requirements of the warranty. It is intended that the materials and workmanship warranty for Planting, Planting Soil, and Irrigation (if applicable) work run concurrent with each other, and further defined in this specification.
- H. Existing Soil: Mineral soil existing at the locations of proposed planting after the majority of the construction within and around the planting site is completed and just prior to the start of work to prepare the planting area for soil modification and/or planting, and further defined in this specification.
- I. Fertilizer: amendment used for the purpose of adjusting soil nutrient composition and balance.
- J. Fine grading: The final grading of the soil to achieve exact contours and positive drainage, often accomplished by hand rakes or drag rakes other suitable devices, and further defined in this specification, and further defined in this specification.
- K. Finished grade: surface or elevation of Planting Soil after final grading and 12 months of settlement of the soil, and further defined in this specification.
- L. Graded soil: Soil where the A horizon has been stripped and relocated or re-spread; cuts and fills deeper than 12 inches, and further defined in this specification.
- M. Installed soil: Planting soil and existing site soil that is spread and or graded to form a planting soil, and further defined in this specification.
- N. Minor disturbance: Minor grading as part of agricultural work that only adjusts the A horizon soil, minor surface compaction in the top 6 inches of the soil, applications of fertilizers, installation of utility pipes smaller than 18 inches in diameter thru the soil zone.
- O. Owner's Representative: The person or entity, appointed by the Owner to represent their interest in the review and approval of the work and to serve as the contracting authority with the Contractor. The Owner's Representative may appoint other persons to review and approve any aspects of the work.
- P. Planting Soil: Topsoil, or Planting Soil Mixes which are imported or existing at the site, or made from components that exist at the site, or are imported to the site; and further defined in this specification.
- Q. Scarify: Loosening and roughening the surface of soil and sub soil prior to adding additional soil on top, and further defined in this specification.
- R. Soil Fracturing: Deep loosening the soil to the depths specified by using a back hoe, and further defined in this specification.
- S. Soil Horizons: as defined in the USDA National Soil Survey Handbook http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242.
- T. Soil Tilling: Loosening the surface of the soil to the depths specified with a **rotary tine tilling machine, roto tiller, (or spade tiller)**, and further defined in this specification.
- U. Subgrade: surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill, before placing Planting Soil.
- V. Substantial Completion Acceptance: The date at the end of the Planting, Planting Soil, and Irrigation installation (if applicable) where the Owner's Representative accepts that all work in these sections is complete and the Warranty period has begun. This date may be different than the date of substantial completion for the other sections of the project, and further defined in this specification.
- W. Topsoil: naturally produced and harvested soil from the A horizon or upper layers or the soil as further defined in this specification.
- X. Undisturbed soil: Soils with the original A horizon intact that have not been graded or compacted. Soils that have been farmed, subjected to fire or logged but not graded, and natural forested land will be considered as undisturbed.

SUBMITTALS

- A. See the contract General Conditions for policy and procedures related to submittals.
- B. Submit all product submittals eight weeks prior to the start of the soil work.
- C. Product data and certificates: For each type of manufactured product, submit data and certificates that the product meets the specification requirements, signed by the product manufacturer, and complying with the following:

- C. Product data and certificates: For each type of manufactured product, submit data and certificates that the product meets the specification requirements, signed by the product manufacturer, and complying with the following:

1. Submit manufacturers or supplier's product data and literature certified analysis for standard products and bulk materials, complying with testing requirements and referenced standards and specific requested testing.
 - a. For each Compost product submit the following analysis by a recognized laboratory:
 - 1.) pH
 - 2.) Salt concentration (electrical conductivity)
 - 3.) Moisture content %, wet weight basis
 - 4.) Particle size % passing a selected mesh size, dry weight basis
 - 5.) Stability carbon dioxide evolution rate mg CO2-C per g OM per day
 - 6.) Solvita maturity test
 - 7.) Physical contaminants (inerts) %, dry weight basis
 - 8.) US EPA Class A standard, 40CFR § 503.13, Tables 1 and 3 levels Chemical Contaminants mg/kg (ppm)
 - b. For Coarse Sand product submit the following analysis by a recognized laboratory:
 - 1.) pH
 - 2.) Particle size distribution (percent passing the following sieve sizes):
 - 3/8 inch (9.5 mm)
 - No 4 (4.75 mm)
 - No 8 (2.36 mm)
 - No 16(1.18 mm)
 - No 30 (.60 mm)
 - No 50 (.30 mm)
 - No 100 (.15 mm)
 - No 200 (.075 mm)

- D. Samples: Submit samples of each product and material, where required by Part 2 of the specification, to the Owner's Representative for approval. Label samples to indicate product, characteristics, and locations in the work. Samples will be reviewed for appearance only.

1. Submit samples a minimum of 8 weeks prior to the anticipated date of the start of soil installation
2. Samples of all Topsoil, Coarse Sand, Compost and Planting Soil shall be submitted at the same time as the particle size and physical analysis of that material.

- E. Soil testing for Imported and Existing Topsoil, existing site soil to be modified as Planting Soil and Planting Soil Mixes.

1. Topsoil, existing site soil and Planting Soil Mix testing: Submit soil test analysis report for each sample of Topsoil, existing site soil and Planting Soil from an approved soil-testing laboratory and where indicated in Part 2 of the specification as follows:
 - a. Submit Topsoil, Planting Soil, Compost, and Coarse Sand for testing at least 8 weeks before scheduled installation of Planting Soil Mixes. Submit Planting Soil Mix test no more than 2 weeks after the approval of the Topsoil, Compost and Coarse Sand. Do not submit to the testing laboratory, Planting Soil Mixes, for testing until all Topsoil, Compost and Coarse Sand have been approved.
 - b. If tests fail to meet the specifications, obtain other sources of material, retest and resubmit until accepted by the Owner's Representative.
 - c. All soil testing will be at the expense of the Contractor.
2. Provide a particle size analysis (% dry weight) and USDA soil texture analysis. Soil testing of Planting Soil Mixes shall also include USDA gradation (percentage) of gravel, coarse sand, medium sand, and fine sand in addition to silt and clay.
3. Provide the following other soil properties:
 - a. pH and buffer pH.
 - b. Percent organic content by oven dried weight.
 - c. Nutrient levels by parts per million including: phosphorus, potassium, magnesium, manganese, iron, zinc and calcium. Nutrient test shall include the testing laboratory recommendations for supplemental additions to the soil for optimum growth of the plantings specified.
 - d. Soluble salt by electrical conductivity of a 1:2 soil water sample measured in Milliohm per cm.
 - e. Cation Exchange Capacity (CEC).

OBSERVATION OF THE WORK

- A. The Owner's Representative may observe the work at any time. They may remove samples of materials for conformity to specifications. Rejected materials shall be immediately removed from the site and replaced at the Contractor's expense. The cost of testing materials not meeting specifications shall be paid by the Contractor.

1. The Owner's Representative may utilize the Contractor's penetrometer and moisture meter at any time to check soil compaction and moisture.

1.12 PRE-CONSTRUCTION CONFERENCE

- A. Schedule a pre-construction meeting with the Owner's Representative at least seven (7) days before beginning work to review any questions the Contractor may have regarding the work, administrative procedures during construction and project work schedule.

1.13 QUALITY ASSURANCE

- A. Installer Qualifications: The installer shall be a firm having at least 5 years of experience of a scope similar to that required for the work, including the preparation, mixing and installation of soil mixes to support planting. The installer of the work in Section: Planting, shall be the same firm installing the work in this section.

1. The bidders list for work under this section shall be approved by the Owner's Representative.
 2. Installer Field Supervision: When any Planting Soil work is in progress, installer shall maintain, on site, an experienced full-time supervisor who can communicate in English with the Owner's Representative.
 3. Installer's field supervisor shall have a minimum of five years experience as a field supervisor installing soil, shall be trained and proficient in the use of field surveying equipment to establish grades and can communicate in English with the Owner's Representative.
 4. The installer's crew shall be experienced in the installation of Planting Soil, plantings, and irrigation (where applicable) and interpretation of planting plans, soil installation plans, and irrigation plans (where applicable).
 5. If requested, submit references of past projects and employee training certifications that support that the Contractors meet all of the above installer qualifications and applicable licensures.
- B. Soil testing laboratory qualifications: an independent laboratory, with the experience and capability to conduct the testing indicated and that specializes in USDA agricultural soil testing, Planting Soil Mixes, and the types of tests to be performed. Geotechnical engineering testing labs shall not be used.
- C. All delivered and installed Planting Soil shall conform to the approved submittals sample color, texture and approved test analysis.
1. The Owner's Representative may request samples of the delivered or installed soil be tested for analysis to confirm the Planting Soil conforms to the approved material.
 2. All testing shall be performed by the same soil lab that performed the original Planting Soil testing.

3. Testing results shall be within 10% plus or minus of the values measured in the approved Planting Soil Mixes.
 4. Any Planting Soil that fails to meet the above criteria, if requested by the Owner's Representative, shall be removed and new soil installed.
- D. Soil compaction testing: following installation or modification of soil, test soil compaction with a penetrometer.
1. Maintain at the site at all times a soil cone penetrometer with pressure dial and a soil moisture meter to check soil connection and soil moisture.
 - a. Penetrometer shall be AgraTronix Soil Compaction Meter distributed by Ben Meadows, www.benmeadows.com, or approved equal.
 - b. Moisture meter shall be "general digital soil moisture meter" distributed by Ben Meadows, www.bcnmeadows.com, or approved equal.
 2. Penetrometer readings are impacted by soil moisture and excessively wet or dry soils will read significantly lower or higher than soils at optimum moisture.

1.14 SITE CONDITIONS

- A. It is the responsibility of the Contractor to be aware of all surface and subsurface conditions, and to notify the Owner's Representative, in writing, of any circumstances that would negatively impact the health of plantings. Do not proceed with work until unsatisfactory conditions have been corrected.

1. Should subsurface drainage or soil conditions be encountered which would be detrimental to growth or survival of plant material, the Contractor shall notify the Owner's Representative in writing, stating the conditions and submit a proposal covering cost of corrections. If the Contractor fails to notify the Owner's Representative of such conditions, they shall remain responsible for plant material under the warrantee clause of the specifications.
2. This specification requires that all Planting Soil and Irrigation (if applicable) work be completed and accepted prior to the installation of any plants.

1.15 SOIL COMPACTION – GENERAL REQUIREMENTS

- A. Except where more stringent requirements are defined in this specification. The following parameters shall define the general description of the threshold points of soil compaction in existing, modified or installed soil and subsoil.
- B. The following are threshold levels of compaction as determined by each method.
1. Acceptable Compaction: Good rooting anticipated, but increasing settlement expected as compaction is reduced and/or in soil with a high organic matter content.
 - a. Bulk Density Method – Varies by soil type see Chart on page 32 in [Up By Roots](#).
 - b. Standard Proctor Method – 75-85% soil below 75% is unstable and will settle excessively.
 - c. Penetration Resistance Method – about 75-250 psi, below 75 psi soil becomes increasingly unstable and will settle excessively.
 2. Root limiting Compaction: Root growth is limited with fewer, shorter and slower growing roots.
 - a. Bulk Density Method – Varies by soil type see Chart on page 32 in [Up By Roots](#).
 - b. Standard Proctor Method – above approximately 85%.
 - c. Penetration Resistance Method – about 300 psi.
 3. Excessive Compaction: Roots not likely to grow but can penetrate soil when soil is above field capacity.
 - a. Bulk Density Method – Varies by soil type see Chart on page 32 in [Up By Roots](#).
 - b. Standard Proctor Method – Above 90%.
 - c. Penetration Resistance Method – Approximately above 400 psi

1.16 DELIVERY, STORAGE, AND HANDLING

- A. Weather: Do not mix, deliver, place or grade soils when frozen or with moisture above field capacity.
- B. Protect soil and soil stockpiles, including the stockpiles at the soil blender's yard, from wind, rain and washing that can erode soil or separate fines and coarse material, and contamination by chemicals, dust and debris that may be detrimental to plants or soil drainage. Cover stockpiles with plastic sheeting or fabric at the end of each workday.
- C. All manufactured packaged products and material shall be delivered to the site in unopened containers and stored in a dry enclosed space suitable for the material and meeting all environmental regulations. Biological additives shall be protected from extreme cold and heat. All products shall be freshly manufactured and dated for the year in which the products are to be used.
- D. Deliver all chemical amendments in original, unopened containers with original labels intact and legible, which state the guaranteed chemical analysis. Store all chemicals in a weather protected enclosure.
- E. Bulk material: Coordinate delivery and storage with Owner's Representative and confine materials to neat piles in areas acceptable to Owner's Representative.

1.17 EXCAVATING AND GRADING AROUND UTILITIES

- A. Contractor shall carefully examine the civil, record, and survey drawings to become familiar with the existing underground conditions before digging.
- B. Determine location of underground utilities and perform work in a manner that will avoid damage. Hand excavate as required. Maintain grade stakes set by others until parties concerned mutually agree upon removal.
- C. Notification of the utility locate service (811) is required for all planting areas. The Contractor is responsible for knowing the location and avoiding utilities that are not covered by the utility locate service.

PART 2 – PRODUCTS

2.1 IMPORTED TOPSOIL

- A. Imported Topsoil definition: Fertile, friable soil containing less than 5% total volume of the combination of subsoil, refuse, roots larger than 1 inch diameter, heavy, sticky or stiff clay, stones larger than 2 inches in diameter, noxious seeds, sticks, brush, litter, or any substances deleterious to plant growth. The percent (%) of the above objects shall be controlled by source selection not by screening the soil. Topsoil shall be suitable for the germination of seeds and the support of vegetative growth. Imported Topsoil shall not contain weed seeds in quantities that cause noticeable weed infestations in the final planting beds. Imported Topsoil shall meet the following physical and chemical criteria:
1. Soil texture: USDA loam, sandy clay loam or sandy loam with clay content between 15 and 25%. And a combined clay/silt content of no more than 55%.
 2. pH value shall be between 5.5 and 7.0.
 3. Percent organic matter (OM): 2.0-5.0%, by dry weight.
 4. Soluble salt level: Less than 2 mmho/cm.
 5. Soil chemistry suitable for growing the plants specified.
- B. Imported Topsoil shall be a harvested soil from fields or development sites. The organic content and particle size distribution shall be the result of natural soil formation. Manufactured soils where Coarse Sand, Composted organic material or chemical additives has been added to the soil to meet the requirements of this specification section shall not be acceptable. Retained soil peds shall be the same color on the inside as is visible on the outside.
- C. Imported Topsoil for Planting Soil shall NOT have been screened and shall retain soil peds or clods larger than 2 inches in diameter throughout the stockpile after harvesting.

LANDSCAPE SPECIFICATIONS



Park Avenue Streetscape
Prepared for Town of Lake Park
Lake Park, Florida

CONSTRUCTION BID PLAN

SEAL:

NAME

LA

REVISIONS

12/14/2022 60% HARDSCAPE CONCEPT

6/13/2023 FINAL CD PLAN

Park Avenue Landscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

FILE | G210-121-LPStreetscape - LA

DATE | 2021-09-20

L1.04

B. Grade the finish surface of all planted areas to meet the grades shown on the drawings, allowing the finished grades to remain higher (10 – 15% of depth of soil modification) than the grades on the grading plan, as defined in paragraph Planting Soil Installation, to anticipate settlement over the first year.

C. Utilize hand equipment, small garden tractors with rakes, or small garden tractors with buckets with teeth for fine grading to keep surface rough without further compaction. Do not use the flat bottom of a loader bucket to fine grade, as it will cause the finished grade to become overly smooth and or slightly compressed.

D. Provide for positive drainage from all areas toward the existing inlets, drainage structures and or the edges of planting beds. Adjust grades as directed to reflect actual constructed field conditions of paving, wall and inlet elevations. Notify the Owner's Representative in the event that conditions make it impossible to achieve positive drainage.

E. Provide smooth, rounded transitions between slopes of different gradients and direction. Modify the grade so that the finish grade before adding mulch and after settlement is one or two inches below all paving surfaces or as directed by the drawings.

F. Fill all dips and remove any bumps in the overall plane of the slope. The tolerance for dips and bumps in shrub and ground cover planting areas shall be a 2 inch deviation from the plane in 10 feet. The tolerance for dips and bumps in lawn areas shall be a 1 inch deviation from the plane in 10 feet.

3.12 INSTALLATION OF COMPOST TILL LAYER

A. After Planting Soil Mixes are installed in planting bed areas and just prior to the installation of shrub or groundcover plantings, spread 3 – 4 inches of Compost over the beds and roto till into the top 4 - 6 inches of the Planting Soil. This step will raise grades slightly above the grades required in paragraph "Fine Grading". This specification anticipates that the raise in grade due to this tilling will settle within a few months after installation as Compost breaks down. Additional settlement as defined in paragraph "Planting Soil and Planting Soil Mix installation" must still be accounted for in the setting of final grades.

3.13 CLEAN-UP

A. During installation, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at the end of each day. Remove trash and debris in containers from the site no less than once a week.

1. Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.

B. Once installation is complete, wash all soil from pavements and other structures. Ensure that mulch is confined to planting beds and that all tags and flagging tape are removed from the site. The Owner's Representative seals are to remain on the trees and removed at the end of the warranty period.

1. Make all repairs to grades, ruts, and damage to the work or other work at the site.

2. Remove and dispose of all excess Planting Soil, subsoil, mulch, plants, packaging, and other material brought to the site by the Contractor.

3.14 PLANTING SOIL AND MODIFIED EXISTING SOIL PROTECTION

A. The Contractor shall protect installed and/or modified Planting Soil from damage including contamination and over compaction due to other soil installation, planting operations, and operations by other Contractors or trespassers. Maintain protection during installation until acceptance. Utilize fencing and matting as required or directed to protect the finished soil work. Treat, repair or replace damaged Planting Soil immediately.

B. Loosen compacted Planting Soil and replace Planting Soil that has become contaminated as determined by the Owner's Representative. Planting Soil shall be loosened or replaced at no expense to the Owner.

a. Till and restore grades to all soil that has been driven over or compacted during the installation of plants.

b. Where modified existing soil has become contaminated and needs to be replaced, provide imported soil that is of similar composition, depth and density as the soil that was removed.

3.15 PROTECTION DURING CONSTRUCTION

A. The Contractor shall protect planting and related work and other site work from damage due to planting operations, operations by other Contractors or trespassers.

1. Maintain protection during installation until the date of plant acceptance (see specifications section – Planting). Treat, repair or replace damaged work immediately.

2. Provide temporary erosion control as needed to stop soil erosion until the site is stabilized with mulch, plantings or turf.

B. Damage done by the Contractor, or any of their sub-contractors to existing or installed plants, or any other parts of the work or existing features to remain, including large existing trees, soil, paving, utilities, lighting, irrigation, other finished work and surfaces including those on adjacent property, shall be cleaned, repaired or replaced by the Contractor at no expense to the Owner. The Owner's Representative shall determine when such cleaning, replacement or repair is satisfactory. Damage to existing trees shall be assessed by a certified arborist.

3.16 SUBSTANTIAL COMPLETION ACCEPTANCE

A. Upon written notice from the Contractor, the Owners Representative shall review the work and make a determination if the work is substantially complete.

B. The date of substantial completion of the planting soil shall be the date when the Owner's Representative accepts that all work in Planting, Planting Soil, and Irrigation installation sections is complete.

3.17 FINAL ACCEPTANCE / SOIL SETTLEMENT

A. At the end of the plant warranty and maintenance period, (see Specification section - Planting) the Owner's Representative shall observe the soil installation work and establish that all provisions of the contract are complete and the work is satisfactory.

1. Restore any soil settlement and or erosion areas to the grades shown on the drawings. When restoring soil grades remove plants and mulch and add soil before restoring the planting. Do not add soil over the root balls of plants or on top of mulch.

B. Failure to pass acceptance: If the work fails to pass final acceptance, any subsequent observations must be rescheduled as per above. The cost to the Owner for additional observations will be charged to the Contractor at the prevailing hourly rate of the Owner's Representative.

END OF SECTION 32 9100

1.1 SCOPE

- A. The work consists of performing all grass sodding and related work as indicated on drawing and described in this section.
- B. Unless otherwise indicated, the Contractor is responsible for the repair of any existing lawn areas disturbed during the construction process
- C. The Contractor is responsible for the irrigation of all lawn areas on the project, including those not covered by an irrigation system. There are lawn areas on the project that are not provided with an irrigation system

J. The Contractor is responsible for contacting the necessary entities to determine the locations of all underground utilities on the site.

K. The Contractor shall take care to avoid damage to any existing buildings, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, landscaping, grounds, aboveground or underground installations or structures of any kind, and shall be responsible for any damage that occurs as a result of his work.

L. Contractor shall adequately protect his work and all adjacent property as provided and required by law.

M. Utilities noted on the plans are anticipated locations only. The utilities shown may not include all underground utilities on the site, and the locations indicated may not be as installed.

- A. After removal of debris and the eradication of any existing weeds, perform fine grading as required to bring all areas to receive grass to a smooth, even, and finished grade. Use a laser grader to fine grade areas receiving Bermudagrass. Fine grade other areas receiving grass by raking to eliminate wind rows, ridges, depressions and other irregularities. The Contractor shall fine grade areas to be sodded as necessary to achieve a finished grade (top of the sod) as specified in this section.
- B. All sodded areas bordered by sidewalks, asphalt pavement, or curbs shall have a finished grade (top of the sod's soil) that is flush (or less than 1/2" below) with the grade of the adjacent sidewalk, asphalt pavement, or curb.
- C. All sodded areas bordered by planting areas shall have a finished grade (top of the sod's soil) that is 1 1/2" above the soil level in the adjacent planting bed.

1. Mowing all lawn areas no less than every week, and the removal of all visible amounts of grass clippings from the lawn areas. Do not cut the lawn in more than 1/4" increments.
2. Edging of all pavements and curbs no less than every week. Maintain the line between the St. Augustine, Bermudagrass or Bahia grass every other week.
3. Eradication of all harmful insects (including ants).
4. Control of all lawn and soil diseases.
5. Watering and fertilizing as required to maintain all lawn areas in an excellent condition for plant growth and sports field use. Grass is required to be in a healthy and green condition at the time of final acceptance.
6. Eradication of all weeds in the lawns as necessary for the grass to conform to the specification in paragraph 2.01. Lawns shall be weed-free upon the final acceptance of the work.
7. All other work as necessary for the specialty Contractor to ensure a high-quality turf areas.

Park Avenue Streetscape

Prepared for Town of Lake Park
Lake Park, Florida

DAT

SPECIFICATIONS

PART 2— PRODUCTS

2.1 PLANTS: GENERAL

- A. Standards and measurement: Provide plants of quantity, size, genus, species, and variety or cultivars as shown and scheduled in contract documents.
1. All plants including the root ball dimensions or container size to trunk caliper ratio shall conform to ANSI Z60.1 “American Standard for Nursery Stock” latest edition, unless modified by provisions in this specification. When there is a conflict between this specification and ANSI Z60.1, this specification section shall be considered correct.
2. Plants larger than specified may be used if acceptable to the Owner’s Representative. Use of such plants shall not increase the contract price. If larger plants are accepted the root ball size shall be in accordance with ANSI Z-60.1. Larger plants may not be acceptable if the resulting root ball cannot be fit into the required planting space.
3. If a range of size is given, no plant shall be less than the minimum size and not less than 50 percent of the plants shall be as large as the maximum size specified. The measurements specified are the minimum and maximum size acceptable and are the measurements after pruning, where pruning is required.
- B. Proper Identification: All trees shall be true to name as ordered or shown on planting plans and shall be labeled individually or in groups by genus, species, variety and cultivar.
- C. Compliance: All trees shall comply with federal and state laws and regulations requiring observation for plant disease, pests, and weeds. Observation certificates required by law shall accompany each shipment of plants.

D. Plant Quality:

1. **General:** Provide healthy stock, grown in a nursery and reasonably free of die-back, disease, insects, eggs, bores, and larvae. At the time of planting all plants shall have a root system, stem, and branch form that will not restrict normal growth, stability and health for the expected life of the plant

Plant quality above the soil line: All plants shall conform to the Florida Grades and Standards for Nursery Plants and specify tree grades as either Florida #1 or Florida Fancy Grades if noted in the plant list. Latest Edition.

- a. Plants shall be healthy with the color, shape, size and distribution of trunk, stems, branches, buds and leaves normal to the plant type specified. Tree quality above the soil line shall comply with the project Crown Acceptance details (or Florida Grades and Standards, tree grade Florida Fancy or Florida #1) and the following:
- 1.) Crown: The form and density of the crown shall be typical for a young specimen of the species or cultivar pruned to a central and dominant leader.
- a.) Crown specifications do not apply to plants that have been specifically trained in the nursery as topiary, espalier, multi-stem, clump, or unique selections such as contorted or weeping cultivars.
- 2.) Leaves: The size, color, and appearance of leaves shall be typical for the time of year and stage of growth of the species or cultivar. Trees shall not show signs of prolonged moisture stress or over watering as indicated by wilted, shriveled, or dead leaves.
- 3.) Branches: Shoot growth (length and diameter) throughout the crown should be appropriate for the age and size of the species or cultivar. Trees shall not have dead, diseased, broken, distorted, or otherwise injured branches.
- a.) Main branches shall be distributed along the central leader not clustered together. They shall form a balanced crown appropriate for the cultivar/species.
- b.) Branch diameter shall be no larger than two-thirds (one-half is preferred) the diameter of the central leader measured 1 inch above the branch union.
- c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
- 4.) Trunk: The tree trunk shall be relatively straight, vertical, and free of wounds that penetrate to the wood (properly made pruning cuts, closed or not, are acceptable and are not considered wounds), sunburned areas, conks (fungal fruiting bodies), wood cracks, sap leakage, signs of boring insects, galls, cankers, girdling ties, or lesions (mechanical injury).
- 5.) Temporary branches, unless otherwise specified, can be present along the lower trunk below the lowest main (scaffold) branch, particularly for trees less than 1 inch in caliper. These branches should be no greater than 3/8-inch diameter.
- b. Trees shall have one central leader. If the leader was headed, a new leader (with a live terminal bud) at least one-half the diameter of the pruning cut shall be present.
- 1.) All trees are assumed to have one central leader trees unless a different form is specified in the plant list or drawings.
- c. All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the soil line.
- d. Trunk caliper and taper shall be sufficient so that the lower five feet of the trunk remains vertical without a stake. Auxiliary stake may be used to maintain a straight leader in the upper half of the tree.

2. Plant quality at or below the soil line:

- a. Plant roots shall be normal to the plant type specified. Root observations shall take place without impacting tree health. Root quality at or below the soil line shall comply with the project Root Acceptance details and the following:
- 1.) The roots shall be reasonably free of scrapes, broken or split wood.
- 2.) The root system shall be reasonably free of injury from biotic (e.g., insects and pathogens) and abiotic (e.g., herbicide toxicity and salt injury) agents. Wounds resulting from root pruning used to produce a high quality root system are not considered injuries.
- 3.) A minimum of three structural roots reasonably distributed around the trunk (not clustered on one side) shall be found in each plant. Root distribution shall be uniform throughout the root ball, and growth shall be appropriate for the species.
- a.) Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
- 4.) The root collar shall be within the upper 2 inches of the substrate/soil. Two structural roots shall reach the side of the root ball near the top surface of the root ball. The grower may request a modification to this requirement for species with roots that rapidly descend, provided that the grower removes all stem girdling roots above the structural roots across the top of the root ball.
- 5.) The root system shall be reasonably free of stem girdling roots over the root collar or kinked roots from nursery production practices.
- a.) Plant Grower Certification: The final plant grower shall be responsible to have determined that the plants have been root pruned at each step in the plant production process to remove stem girdling roots and kinked roots, or that the previous production system used practices that produce a root system throughout the root ball that meets these specifications. Regardless of the work of previous growers, the plant’s root system shall be modified at the final production stage, if needed, to produce the required plant root quality.
- 6.) At time of observations and delivery, the root ball shall be moist throughout. Roots shall not show signs of excess soil moisture conditions as indicated by stunted, discolored, distorted, or dead roots.

- E. Submittals: Submit for approval the required plant quality certifications from the grower where plants are to be purchased, for each plant type. The certification must state that each plant meets all the above plant quality requirements.

1. The grower’s certification of plant quality does not prohibit the Owner’s Representative from observing any plant or rejecting the plant if it is found to not meet the specification requirements.

- 2.2 ROOT BALL PACKAGE OPTIONS: The following root ball packages are permitted. Specific root ball packages shall be required where indicated on the plant list or in this specification. Any type of root ball packages that is not specifically defined in this specification shall not be permitted.

A. BALLED AND BURLAPPED PLANTS

1. All Balled and Burlapped Plants shall be field grown, and the root ball packaged in a burlap and twine and/or burlap and wire basket package.
2. Plants shall be harvested with the following modifications to standard nursery practices.
- a. Prior to digging any tree that fails to meet the requirement for maximum soil and roots above the root collar, carefully removed the soil from the top of the root ball of each plant, using hand tools, water or an air spade, to locate the root collar and attain the soil depth over the structural roots requirements. Remove all stem girdling roots above the root collar. Care must be exercised not to damage the surface of the root collar and the top of the structural roots.
- b. Trees shall be dug for a minimum of 4 weeks and a maximum of 52 weeks prior to shipping. Trees dug 4 to 52 weeks prior to shipping are defined as hardened-off. Digging is defined as cutting all roots and lifting the tree out of the ground and either moving it to a new location in the nursery or placing it back into the same hole. Trees that are stored out of the ground shall be placed in a holding area protected from extremes of wind and sun with the root ball protected by covering with mulch or straw and irrigated sufficiently to keep moisture in the root ball above wilt point and below saturation
- c. If wire baskets are used to support the root ball, a “low profile” basket shall be used. A low profile basket is defined as having the top of the highest loops on the basket no less than 4 inches and no greater than 8 inches below the shoulder of the root ball package.
- 1.) At nurseries where sandy soils prevent the use of “low profile baskets”, baskets that support the entire root ball, including the top, are allowable.
- d. Twine and burlap used for wrapping the root ball package shall be natural, biodegradable material. If the burlap decomposes after digging the tree then the root ball shall be re-wrapped prior to shipping if roots have not yet grown to keep root ball intact during shipping.
1. spade machine until planted.

B. CONTAINER (INCLUDING ABOVE-GROUND FABRIC CONTAINERS AND BOXES) PLANTS

1. Container plants may be permitted only when indicated on the drawing, in this specification, or approved by the Owner’s Representative.
2. Provide plants shall be established and well rooted in removable containers.
3. Container class size shall conform to ANSI Z60.1 for container plants for each size and type of plant.

2.3 ANNUAL FLOWERING AND SEASONAL COLOR PLANTS

- A. Container or flat-grown plants should be sized as noted in the planting plan. Plants shall be well-rooted and healthy.

2.4 PALMS

- A. Except as modified below or where the requirements are not appropriate to the specification of palms, palms shall meet all the requirements of the plant quality section above.
- B. Defroning, tying, and hedging:
1. In preparing palm trees for relocation, all dead fronds shall be removed.
2. All remaining fronds above horizontal shall be lifted up and tied together around the crown in an upright position. Up to 2/3 of the oldest live fronds can be removed; all fronds can be removed on Sabal palms. Do not tie too tightly, bind or injure the bud. Jute binder twine shall be used in tying up the fronds; wire will not be permitted. Fronds shall be untied immediately after planting.
- C. Digging the root ball:
1. When digging out the root ball, no evacuation shall be done closer than 8 Inches to the trunk at ground level and the excavation shall extend below the major root system to a minimum depth of 3.5 feet. The bottom of the root ball shall be cut off square and perpendicular to the trunk below the major root system.
- D. The Contractor shall not free-fall, drag, roll or abuse the tree or put a strain on the crown (bud area) at any time. A protective device shall be used around the trunk of the tree while lifting and relocating so as not to injure the bud, or scar or skin the trunk in any way.

2.5 PLANTING SOIL

- A. Planting Soil as used in this specification means the soil at the planting site, or imported as modified and defined in specification Section Planting Soil. If there is no Planting Soil specification, the term Planting Soil shall mean the soil at the planting site within the planting hole.

2.6 MULCH

- A. Mulch shall be “Walk on” grade, coarse, ground, from tree and woody brush sources. The size range shall be a minimum (less than 25% or less of volume) fine particles 3/8 inch or less in size, and a maximum size of individual pieces (largest 20% or less of volume) shall be approximately 1 to 1-1/2 inch in diameter and maximum length approximately 4 to 8”. Pieces larger than 8 inch long that are visible on the surface of the mulch after installation shall be removed.
1. It is understood that mulch quality will vary significantly from supplier to supplier and region to region. The above requirements may be modified to conform to the source material from locally reliable suppliers as approved by the Owner’s Representative.
- B. Submit supplier’s product specification data sheet and a one gallon sample for approval.

2.7 TREE STAKING AND GUYING MATERIAL

- A. Tree guying to be flat woven polypropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be ArborTie manufactured by Deep Root Partners, L.P. or approved equal.
- B. Stakes shall be lodge pole stakes free of knots and of diameters and lengths appropriate to the size of plant as required to adequately support the plant.
- C. Below ground anchorage systems to be constructed of 2 x 2-dimensional untreated wood securing (using 3 inch long screws) horizontal portions to 4 feet long vertical stakes driven straight into the ground outside the root ball.
- D. Submit manufacturer’s product data for approval.

2.8 TREE BARK PROTECTOR

- A. Tree Bark Protectors shall be black extruded resin mesh, 4 inches in diameter, 5 feet long. As manufactured by Industrial Netting, Minneapolis, MN, USA or approved equal.
- B. Fasten the split side of the Tree Bark Protector together in three places with black plastic tape.
- C. Submit manufacturers’ product data for approval.

PART 3— EXECUTION

3.1 SITE EXAMINATION

- A. Examine the surface grades and soil conditions to confirm that the requirements of the Specification Section – Planting Soil - and the soil and drainage modifications indicated on the Planting Soil Plan and Details (if applicable) have been completed. Notify the Owner’s Representative in writing of any unsatisfactory conditions.

3.2 DELIVERY, STORAGE AND HANDLING

- A. Protect materials from deterioration during delivery and storage. Adequately protect plants from drying out, exposure of roots to sun, wind or extremes of heat and cold temperatures. If planting is delayed more than 24 hours after delivery, set plants in a location protected from sun and wind. Provide adequate water to the root ball package during the shipping and storage period.
1. All plant materials must be available for observation prior to planting.
2. Using a soil moisture meter, periodically check the soil moisture in the root balls of all plants to assure that the plants are being adequately watered. Volumetric soil moisture shall be maintained above wilting point and below field capacity for the root ball substrate or soil.
- B. Do not deliver more plants to the site than there is space with adequate storage conditions. Provide a suitable remote staging area for plants and other supplies.
1. The Owner’s Representative or Contractor shall approve the duration, method and location of storage of plants.
- C. Provide protective covering over all plants during transporting.

3.3 PLANTING SEASON

- A. Planting shall only be performed when weather and soil conditions are suitable for planting the materials specified in accordance with locally accepted practice. Install plants during the planting time as described below unless otherwise approved in writing by the Owner’s Representative. In the event that the Contractor request planting outside the dates of the planting season, approval of the request does not change the requirements of the warranty.

3.4 ADVERSE WEATHER CONDITIONS

- A. No planting shall take place during extremely hot, dry, windy or freezing weather.
- B. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.
- C. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the Owner’s Representative of any conflicts encountered.

3.5 COORDINATION WITH PROJECT WORK

- A. The Contractor shall coordinate with all other work that may impact the completion of the work.
- B. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.

C. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the Owner’s Representative of any conflicts encountered.

LAYOUT AND PLANTING SEQUENCE

- A. Relative positions of all plants and trees are subject to approval of the Owner’s Representative.
- B. Notify the Owner’s Representative, one (1) week prior to layout. Layout all individual tree and shrub locations. Place plants above surface at planting location or place a labeled stake at planting location. Layout bed lines with paint for the Owner’s Representative’s approval. Secure the Owner’s Representative’s acceptance before digging and start of planting work.
- C. When applicable, plant trees before other plants are installed.
- D. It is understood that plants are not precise objects and that minor adjustments in the layout will be required as the planting plan is constructed. These adjustments may not be apparent until some or all of the plants are installed. Make adjustments as required by the Owner’s Representative including relocating previously installed plants.

SOIL PROTECTION DURING PLANT DELIVERY AND INSTALLATION

- A. Protect soil from compaction during the delivery of plants to the planting locations, digging of planting holes and installing plants.
1. Where possible deliver and plant trees that require the use of heavy mechanized equipment prior to final soil preparation and tilling. Where possible, restrict the driving lanes to one area instead of driving over and compacting a large area of soil.
2. Till to a depth of 6 inches, all soil that has been driven over during the installation of plants.

3.8 SOIL MOISTURE

- A. Volumetric soil moisture level, in both the planting soil and the root balls of all plants, prior to, during and after planting shall be above permanent wilting point and below field capacity for each type of soil texture within the following ranges.

Soil type	Permanent wilting point	Field capacity
Sand, Loamy sand, Sandy loam	5-8%	12-18%
Loam, Sandy clay, Sandy clay loam	14-25%	27-36%
Clay loam, Silt loam	11-22%	31-36%
Silty clay, Silty clay loam	22-27%	38-41%

1. Volumetric soil moisture shall be measured with a digital moisture meter. The meter shall be the Digital Soil Moisture Meter, DSMMS00 by General Specialty Tools and Instruments, or approved equivalent.
- B. The Contractor shall confirm the soil moisture levels with a moisture meter. If the moisture is too high, suspend planting operations until the soil moisture drains to below field capacity.

3.9 INSTALLATION OF PLANTS: GENERAL

- A. Observe each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant. Notify the Owner’s Representative of any condition observed.
- B. No more plants shall be distributed about the planting bed area than can be planted and watered on the same day.
- C. The root system of each plant, regardless of root ball package type, shall be observed by the Contractor, at the time of planting to confirm that the roots meet the requirements for plant root quality in Part 2 Products: Plants General: Plant Quality. The Contractor shall undertake at the time of planting, all modifications to the root system required by the Owner’s Representative to meet these quality standards.
1. Modifications, at the time of planting, to meet the specifications for the depth of the root collar and removal of stem girdling roots and circling roots may make the plant unstable or stress the plant to the point that the Owner’s Representative may choose to reject the plant rather than permitting the modification.
2. Any modifications required by the Owner’s Representative to make the root system

conform to the plant quality standards outlined in Part 2 Products: Plants General: Quality, or other requirements related to the permitted root ball package, shall not be considered as grounds to modify or void the plant warranty.

3. The resulting root ball may need additional staking and water after planting. The Owner’s Representative may reject the plant if the root modification process makes the tree unstable or if the tree is not healthy at the end of the warranty period. Such plants shall still be covered under the warranty

4. The Contractor remains responsible to confirm that the grower has made all required root modifications noted during any nursery observations.

- D. Container and Boxed Root Ball Shaving: The outer surfaces of ALL plants in containers and boxes, including the top, sides and bottom of the root ball shall be shaved to remove all circling, descending, and matted roots. Shaving shall be performed using saws, knives, sharp shovels or other suitable equipment that is capable of making clean cuts on the roots. Shaving shall remove a minimum of one inch of root mat or up to 2 inches as required to remove all root segments that are not growing reasonably radial to the trunk.

- E. Exposed Stem Tissue after Modification: The required root ball modifications may result in stem tissue that has not formed trunk bark being exposed above the soil line. If such condition occurs, wrap the exposed portion of the stem in a protective wrapping with a white filter fabric. Secure the fabric with biodegradable masking tape. DO NOT USE string, twine, green nursery ties or any other material that may girdle the trunk if not removed.

- F. Excavation of the Planting Space: Using hand tools or tracked mini-excavator, excavate the planting hole into the Planting Soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the drawing or as noted below.

1. For trees and shrubs planted in soil areas that are NOT tilled or otherwise modified to a depth of at least 12 inches over a distance of more than 10 feet radius from each tree, or 5 feet radius from each shrub, the soil around the root ball shall be loosened as defined below or as indicated on the drawings.
- a. The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter of the root ball at the depth of the root ball.
- b. Loosening is defined as digging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dug, lifted and turned. Lifting and turning may be accomplished with a tracked mini excavator, or hand shovels.

2. If an auger is used to dig the initial planting hole, the soil around the auger hole shall be loosened as defined above for trees and shrubs planted in soil areas that are NOT tilled or otherwise modified.

3. The measuring point for root ball depth shall be the average height of the outer edge of the root ball after any required root ball modification.

4. If motorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to loosen the soil or dig the planting holes, all soil that has been driven over shall be tilled to a depth of 6 inches.

- G. For trees to be planted in prepared Planting Soil that is deeper than the root ball depth, compact the soil under the root ball using a mechanical tamper to assure a firm bedding for the root ball. If there is more than 12 inches of planting soil under the root ball excavate and tamp the planting soil in lifts not to exceed 12 inches.

- H. Set top outer edge of the root ball at the average elevation of the proposed finish. Set the plant plumb and upright in the center of the planting hole. The tree graft, if applicable, shall be visible above the grade. Do not place soil on top of the root ball.

- I. The Owner’s Representative may request that plants orientation be rotated when planted based on the form of the plant.

- J. Backfill the space around the root ball with the same planting soil or existing soil that was excavated for the planting space. See Specification Section Planting Soil, for requirements to modify the soil within the planting bed.

- K. Brace root ball by tamping Planting Soil around the lower portion of the root ball. Place additional Planting Soil around base and sides of ball in six-inch (6”) lifts. Lightly tamp each lift using foot pressure or hand tools to settle backfill, support the tree and eliminate voids. DO NOT over compact the backfill or use mechanical or pneumatic tamping equipment. Over compaction shall be defined as greater than 85% of maximum dry density, standard proctor or greater than 250 psi as measured by a cone penetrometer when the volumetric soil moisture is lower than field capacity.

1. When the planting hole has been backfilled to three quarters of its depth, water shall be poured around the root ball and allowed to soak into the soil to settle the soil. Do not flood the planting space. If the soil is above field capacity, allow the soil to drain to below field capacity before finishing the planting. Air pockets shall be eliminated and backfill continued until the planting soil is brought to grade level.

- L. Where indicated on the drawings, build a 4 inch high, level berm of Planting Soil around the outside of the root ball to retain water. Tamp the berm to reduce leaking and erosion of the saucer.

- M. Thoroughly water the Planting Soil and root ball immediately after planting.

- N. Remove all nursery plant identification tags and ribbons as per Owner’s Representative instructions. The Owner’s Representative’s seals are to remain on plants until the end of the warranty period.

- O. Remove corrugated cardboard trunk protection after planting.

- P. Follow additional requirements for the permitted root ball packages.

3.10 PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS

- A. The following are permitted root ball packages and special planting requirements that shall be followed during the planting process in addition to the above General planting requirements.

B. BALLED AND BURLAPPED PLANTS

1. After the root ball has been backfilled, remove all twine and burlap from the top of the root ball. Cut the burlap away; do not fold down onto the Planting Soil.
2. If the plant is shipped with a wire basket that does not meet the requirements of a “Low Rise” basket, remove the top 6 - 8 inches of the basket wires just before the final backfilling of the tree.

3. Earth root balls shall be kept intact except for any modifications required by the Owner’s Representative to make root package comply with the requirement in Part 2 Products.

C. CONTAINER (INCLUDES BOXED AND ABOVE-GROUND FABRIC CONTAINERS) PLANTS

1. This specification assumes that most container plants have significant stem girdling and

Park Avenue Streetscape

Prepared for Town of Lake Park

Lake Park, Florida

SEAL:

NAME

LA

REVISIONS

12/14/2022 60% HARDSCAPE CONCEPT

Park Avenue Landscape Plan

SCALE | AS SHOWN

DRAWN | KB/JR

CHECKED BY | HPH

FILE | G210-21 - LPSStreetscape - LA

DATE | 2021-09-20

L1.08

circling roots, and that the root collar is too low in the root ball.

2. Remove the container.
3. Perform root ball shaving as defined in Installation of Plants: General above.
4. Remove all roots and substrate above the root collar and the main structural roots according to root correction details so root system conforms to root observations detail.
5. Remove all substrate at the bottom of the root ball that does not contain roots.
6. Using a hose, power washer or air excavation device, wash out the substrate from around the trunk and top of the remaining root ball and find and remove all stem girdling roots within the root ball above the top of the structural roots.

3.11 GROUND COVER, PERENNIAL AND ANNUAL PLANTS

- A. Assume that soil moisture is within the required levels prior to planting. Irrigation, if required, shall be applied at least 12 hours prior to planting to avoid planting in muddy soils.
- B. Assume that soil grades in the beds are smooth and as shown on the plans.
- C. Plants shall be planted in even, triangularly spaced rows, at the intervals called out for on the drawings, unless otherwise noted. The first row of Annual flower plants shall be 6 inches from the bed edge unless otherwise directed.
- D. Dig planting holes sufficiently large enough to insert the root system without deforming the roots. Set the top of the root system at the grade of the soil.
- E. Schedule the planting to occur prior to application of the mulch. If the bed is already mulched, pull the mulch from around the hole and plant into the soil. Do not plant the root system in the mulch. Pull mulch back so it is not on the root ball surface.
- F. Press soil to bring the root system in contact with the soil.
- G. Spread any excess soil around in the spaces between plants.
- H. Apply mulch to the bed being sure not to cover the tops of the plants with or the tops of the root ball with mulch.
- I. Water each planting area as soon as the planting is completed. Apply additional water to keep the soil moisture at the required levels. Do not over water.

3.12 PALM PLANTING

- A. Palm trees shall be placed at grade making sure not to plant the tree any deeper in the ground than the palm trees originally stood.
- B. The trees shall be placed with their vertical axis in a plumb position.
- C. All backfill shall be native soil except in cases where planting in rock. Water-settle the back fill.
- D. Do not cover root ball with mulch or topsoil.
- E. Provide a watering berm at each palm. Berms shall extend a minimum of 18 inches out from the trunk all around and shall be a minimum of (6) inches high.
- F. Remove twine which ties fronds together after placing palm in planting hole and securing it in the upright position.

3.13 STAKING AND GUYING

- A. Do not stake or guy trees unless specifically required by the Contract Documents, or in the event that the Contractor feels that staking is the only alternative way to keep particular trees plumb.
 1. The Owner's Representative shall have the authority to require that trees are staked or to reject staking as an alternative way to stabilize the tree.
 2. Trees that required heavily modified root balls to meet the root quality standards may become unstable. The Owner's Representative may choose to reject these trees rather than utilize staking to temporarily support the tree.
- B. Trees that are guys shall have their guys and stakes removed after one full growing season or at other times as required by the Owner's Representative.
- C. Tree guying shall utilize the tree staking and guying materials specified. Guying to be tied in such a manner as to create a minimum 12-inch loop to prevent girdling. Refer to manufacturer's recommendations and the planting detail for installation.
 1. Plants shall stand plumb after staking or guying.
 2. Stakes shall be driven to sufficient depth to hold the tree rigid.
- D. For trees planted in planting mix over waterproofed membrane, use dead men buried 24 inches to the top of the dead man, in the soil. Tie the guy to the dead man with a double wrap of line around the dead man followed by a double half hitch. When guys are removed, leave the dead men in place and cut the guy tape 12 inches above the ground, leaving the tape end covered in mulch.

3.14 TREE BARK PROTECTION

- A. For all street trees in commercial areas where indicated on the drawings, apply a Tree Bark Protector to each tree.

3.15 STRAIGHTENING PLANTS

- A. Maintain all plants in a plumb position throughout the warranty period. Straighten all trees that move out of plumb including those not staked. Plants to be straightened shall be excavated and the root ball moved to a plumb position, and then re-backfilled.
- B. Do not straighten plants by pulling the trunk with guys.

3.16 INSTALLATION OF FERTILIZER AND OTHER CHEMICAL ADDITIVES

- A. Do not apply any soluble fertilizer to plantings during the first year after transplanting unless soil test determines that fertilizer or other chemical additives is required. Apply chemical additives only upon the approval of the Owner's Representative.
- B. Controlled release fertilizers shall be applied according to the manufacturer's instructions and standard horticultural practices.

3.17 PRUNING OF TREES AND SHRUBS

- A. Prune plants as directed by the Owner's Representative. Pruning trees shall be limited to addressing structural defects as shown in details; follow recommendations in "Structural Pruning: A Guide For The Green Industry" published by Urban Tree Foundation, Visalia CA.
- B. All pruning shall be performed by a person experienced in structural tree pruning.
- C. Except for plants specified as multi-stemmed or as otherwise instructed by the Owner's Representative, preserve or create a central leader.
- D. Pruning of large trees shall be done using pole pruners or if needed, from a ladder or hydraulic lift to gain access to the top of the tree. Do not climb in newly planted trees. Small trees can be structurally pruned by laying them over before planting. Pruning may also be performed at the nursery prior to shipping.
- E. Remove and replace excessively pruned or malformed stock resulting from improper pruning that occurred in the nursery or after.
- F. Pruning shall be done with clean, sharp tools.
- G. No tree paint or sealants shall be used.

- END OF SECTION 32 9300

PARK AVENUE STREETSCAPE / HARDSCAPE ENHANCEMENTS**Cost for Typical One (1) Block Section****SCOPE OF WORK****General Improvements:**

- Pressure wash and seal existing pavers in roadway (*Primarily Intersections and crosswalks*)
- Up-grade Bus Stop areas with new Trash Receptacles, Plant Pottery (*and possible Pergola*)

Landscape Improvements:

- Prune and shape existing palms along street (*where necessary*)
- Add Flowering Plant ground cover
- Add Flowering Plant Leaf Color Plant ground cover at parking planter areas
- Add Accent Plant and Colorful Plant ground cover at street landscape islands
- Add Orchids Plant Color to selected street-side canopy trees

Hardscape Improvements:

- Concrete sidewalk improvements

ESTIMATED CONSTRUCTION COSTS:*(Based on approximately 500 lft from block to block)***General Conditions** **\$ 20,000.00**

Supervision

Trash dumpsters / Cleanup

MOT

Permit Fees

\$ 5,000.00**Demolition****\$ 65,000.00**

Remove existing concrete sidewalk in preparation for new precast pavers

Pressure Cleaning**\$ 4,000.00**

Pressure clean all existing precast pavers (street crosswalks / inter-section tables / etc.)

Landscape and Irrigation**\$ 45,000.00**

Prune existing palms and shrubs

Remove existing plant as per new landscape design

Add Flowering Plant and Color Leaf Ground Cover

Add Accent Plant ground cover at street landscape islands

Add Orchids at selected street side canopy trees

Modifications to existing irrigation

Mulching

Paver Sidewalks (*Approx. 500' x 8' x 2 sides = 8,000 sf / block*)**\$ 96,000.00**

Remove existing concrete sidewalk

Grade & Compact in preparation for new precast pavers

Furnish and install new precast pavers

Streetscape Amenities**\$ 10,000.00**

Trash receptacles / Decorative pottery / Pergolas / Benches

Subtotal Cost for One (1) block of Improvements**\$ 245,000.00****Contractor OH&P @ 15%****36,000.00****Total Budget Amount:****\$ 281,000.00 / Block**

10th STREET SAFETY IMPROVEMENTS / HARDSCAPE ENHANCEMENTS

Cost for Typical One (1) Block Section

SCOPE OF WORK

General Improvements:

- Up-grade Bus Stop areas with new Trash Receptacles, Plant Pottery *(and possible Pergola)*

Landscape Improvements:

- Prune and shape or remove existing palms along street *(where necessary)*
- Add Flowering Plant ground cover
- Add Flowering Plant Leaf Color Plant ground cover at parking planter areas
- Add Accent Plant and Colorful Plant ground cover at street landscape islands

Hardscape Improvements:

- Precast Paver sidewalk improvements
- Precast Pavers accents at street intersections and street crosswalks

ESTIMATED CONSTRUCTION COSTS:

(Based on approximately "varies" Inft from block to block)

General Conditions	\$ 25,000.00
Supervision	
Trash dumpsters / Cleanup	
MOT	
Permit Fees	\$ 5,000.00
Demolition	\$ 85,000.00
Sidewalk/Street demolition in preparation for new precast pavers	
Pressure Cleaning	\$ 1,500.00
Pressure clean existing areas as needed	
Landscape and Irrigation	\$ 25,000.00
Prune existing palms and shrubs	
Remove existing plant as per new landscape design	
Add Flowering Plant and Color Leaf Ground Cover	
Add Accent Plant ground cover at street landscape islands	
Add Orchids at selected street side canopy trees	
Modifications to existing irrigation	
Mulching	
Paver Sidewalks / Street Intersection Accents / Street Crosswalks	\$ 140,000.00
Remove existing concrete sidewalk	
Cut / remove existing asphalt pavement as required for new paver work	
Grade & Compact in preparation for new precast pavers	
Furnish and install new precast pavers	
Streetscape Amenities	\$ 5,000.00
Trash receptacles / Decorative pottery / Pergolas / Benches	

Subtotal Cost for One (1) block of Improvements **\$ 286,500.00**

Contractor OH&P @ 15% **43,000.00**

Total Budget Amount: **\$ 329,500.00 / Block**

RESOLUTION 13-03-22**A RESOLUTION OF THE TOWN OF LAKE PARK COMMUNITY REDEVELOPMENT AGENCY (CRA) AUTHORIZING AND DIRECTING THE EXECUTIVE DIRECTOR TO EXECUTE A WORK AUTHORIZATION WITH JMORTON PLANNING AND LANDSCAPE ARCHITECTURE FOR CONSULTING SERVICES ASSOCIATED WITH DEVELOPING AND DESIGNING PLANS FOR STREETSCAPE IMPROVEMENTS AT PARK AVENUE AND 10TH STREET; AND PROVIDING FOR AN EFFECTIVE DATE.**

WHEREAS, the Town of Lake Park's Community Redevelopment Agency (CRA) is a dependent special district of the Town of Lake Park (Town) with such power and authority as has been conferred upon it by Chapter 163, Part III, Florida Statutes; and

WHEREAS, the CRA is empowered to enter into contractual arrangements with other public agencies, private corporations or persons; and

WHEREAS, the CRA has committed to funding certain hardscape, and landscape improvements to improve the aesthetics of businesses and properties within the CRA and provide residents and visitors to the Town with an exceptional and visually engaging experience; and

WHEREAS, the Town has previously solicited professional engineering services pursuant to the Consultants Competitive Negotiation Act (CCNA) for a continuing services contract; and

WHEREAS, on November 7, 2018, the Town Commission voted to enter into a five-year continuing services contract for professional engineering services with Engenuity Group, Inc.; and

WHEREAS, JMorton Planning and Landscape Architecture (JMorton) is an approved sub-consultant listed in said contract; and

WHEREAS, JMorton has provided the CRA with a proposal in the amount of \$42,875.00 to develop and design plans to implement hardscape and landscape improvements on Park Avenue and 10th Street (the project); and

WHEREAS, the CRA's Executive Director is recommending that the Board of Commissioners of the CRA accept the proposal submitted by JMorton to develop and design plans for the project.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF THE TOWN OF LAKE PARK:

Section 1. The whereas clauses are hereby incorporated herein.

Section 2. The Executive Director is hereby authorized and directed to execute the work authorization submitted by JMorton Planning and Landscape Architecture to the CRA, a copy of which is attached hereto and incorporated herein by reference as “**Exhibit A**”.

Section 3. This Resolution shall take effect immediately upon its adoption.

The foregoing Resolution was offered by Vice-Chair Glas-Castro, who moved its adoption. The motion was seconded by Board Member Linden, and upon being put to a roll call vote, the vote was as follows:

	AYE	NAY
CHAIR MICHAEL O'ROURKE	<u>✓</u>	<u> </u>
VICE-CHAIR KIMBERLY GLAS-CASTRO	<u>✓</u>	<u> </u>
BOARD MEMBER ERIN FLAHERTY	<u>✓</u>	<u> </u>
BOARD MEMBER JOHN LINDEN	<u>✓</u>	<u> </u>
BOARD MEMBER ROGER MICHAUD	<u>✓</u>	<u> </u>
BOARD MEMBER HENRY STARK	<u>ABSENT</u>	<u> </u>

The Community Redevelopment Agency thereupon declared the foregoing Resolution 13-08-22 duly passed and adopted this 16th day of March, 2022.

TOWN OF LAKE PARK, FLORIDA

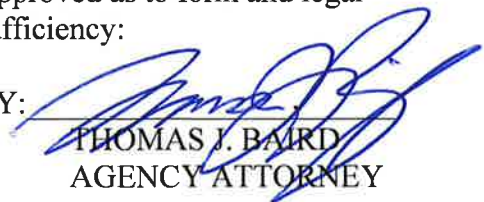
BY: 
MICHAEL O'ROURKE
CHAIR

ATTEST:


VIVIAN MENDEZ
AGENCY CLERK



Approved as to form and legal sufficiency:

BY: 
THOMAS J. BAIRD
AGENCY ATTORNEY

Update on Park Avenue and 10th Street Hardscape and Landscape Improvements

Department of Public Works



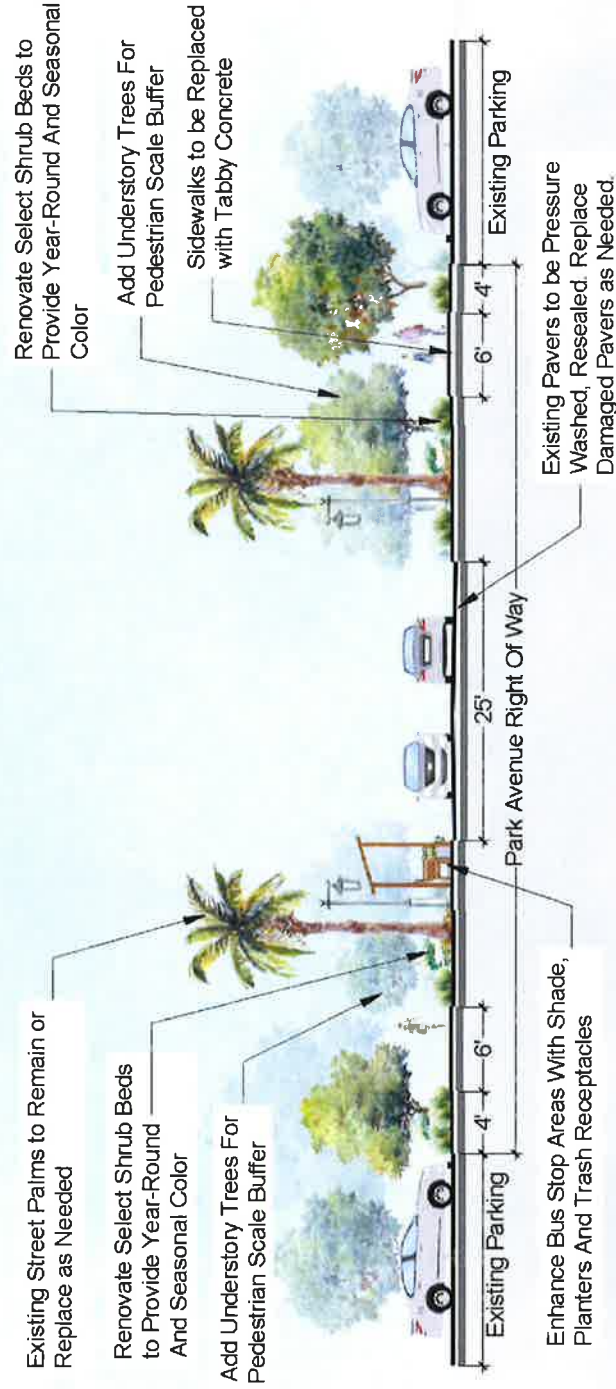


Review of Streetscape Design Alternatives

HAYS HENDERSON, PLA, JMORTON



Conceptual Streetscape Typical Section

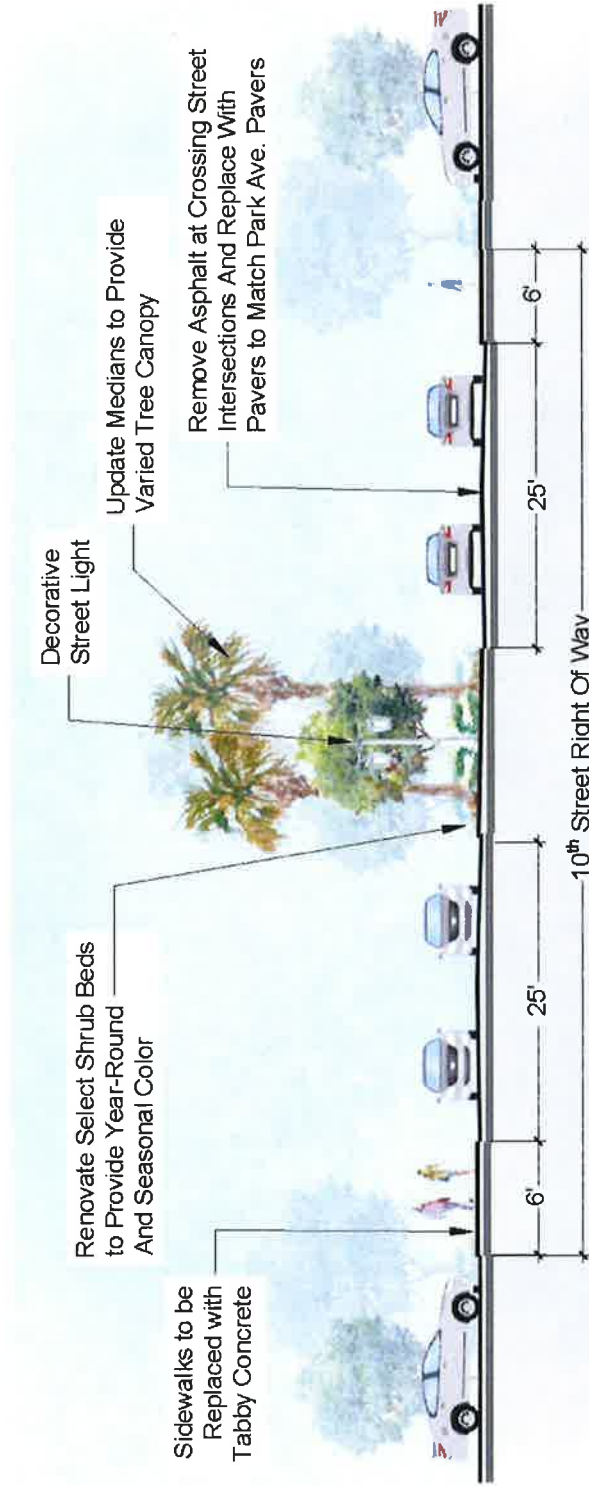


PARK AVENUE TYPICAL SECTION
PLAN NTS





Conceptual Streetscape Typical Section



10TH STREET TYPICAL SECTION
PLAN NTS





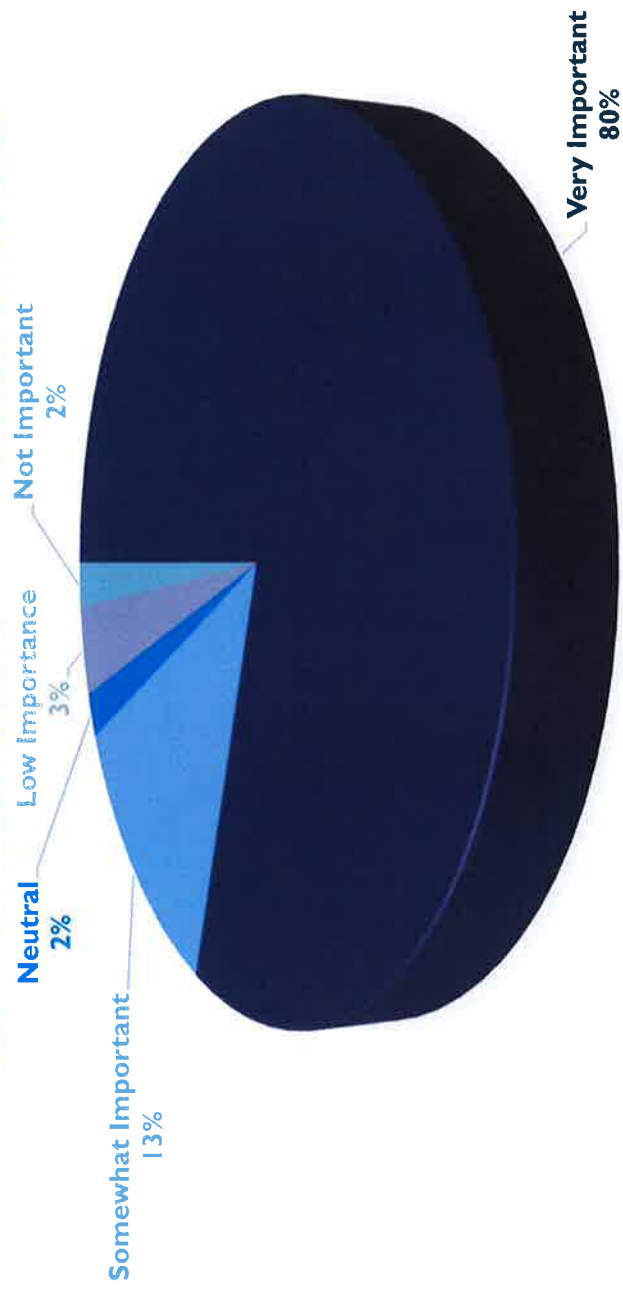
Update on the Public Workshop

ROBERTO TRAVIESO, DIRECTOR OF PUBLIC WORKS

Park Avenue & 10th Street Hardscape Improvements



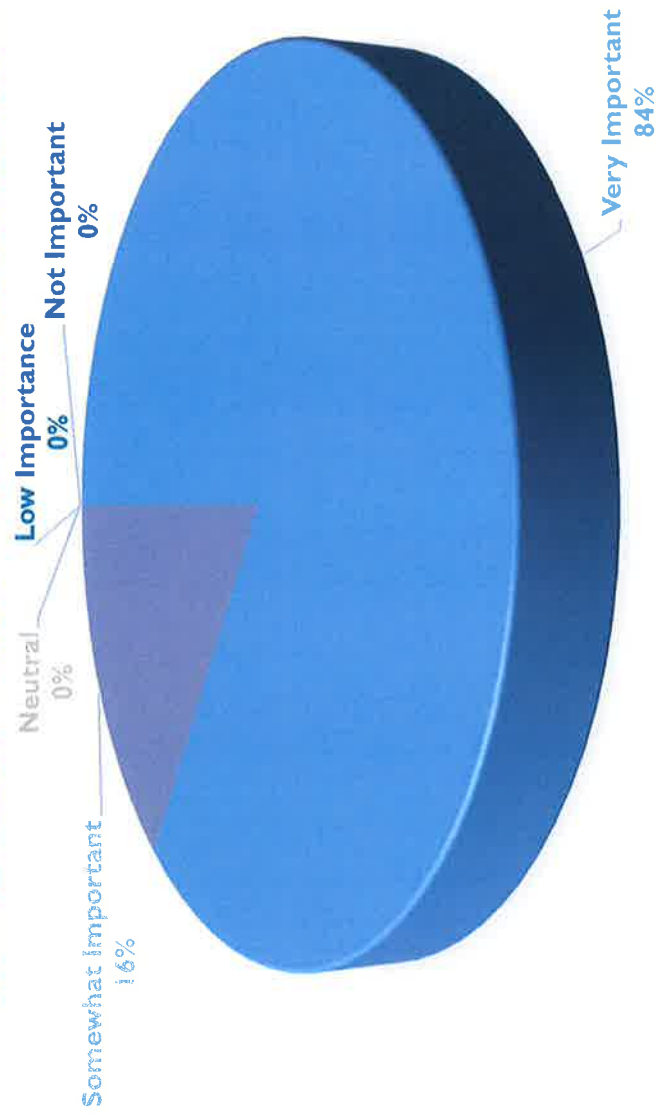
IMPLEMENT HARDSCAPE IMPROVEMENTS?



Park Avenue & 10th Street Landscape Improvements



IMPLEMENT LANDSCAPE IMPROVEMENTS?





Public Comments

- Bus stops and benches may attract predatory characters
- Paver sidewalks create a big expense
- The intersection of Park Ave and 10th Street needs special attention
- Prefer native plants in common areas
- Use sponsorship from businesses/residences for trees
- Include sustainable plantings
- Will there be any public art?
- Make sure people do not vandalize or live in the pergolas



Public Comments

- Paver sidewalks create a big expense
- The intersection of Park Ave and 10th Street needs special attention
- Prefer native plants in common areas
- Use sponsorship from businesses/residences for trees
- Include sustainable plantings
- Will there be any public art?
- Trees are preferred over palms, art
- Add cycling markings or bike lanes
- Landscape should include art and sculptures
- Concerned with the length of project; implement quickly



Construction Cost Estimates and Suggested Implementation Timeline

JOHN WILLE, CAPITAL PROJECTS MANAGER



Design Proposal for Streetscape Design

HAYS HENDERSON, PLA, JMORTON



Discussion/Questions

Attachment 2, Pg. 1

PARK AVENUE STREETSCAPE / HARDSCAPE ENHANCEMENTS**Cost for Typical One (1) Block Section****SCOPE OF WORK****General Improvements:**

- Pressure wash and seal existing pavers in roadway (*Primarily Intersections and crosswalks*)
- Up-grade Bus Stop areas with new Trash Receptacles, Plant Pottery (*and possible Pergola*)

Landscape Improvements:

- Prune and shape existing palms along street (*where necessary*)
- Add Flowering Plant ground cover
- Add Flowering Plant Leaf Color Plant ground cover at parking planter areas
- Add Accent Plant and Colorful Plant ground cover at street landscape islands
- Add Orchids Plant Color to selected street-side canopy trees

Hardscape Improvements:

- Concrete sidewalk improvements

ESTIMATED CONSTRUCTION COSTS:*(Based on approximately 500 lft from block to block)*

General Conditions	\$ 20,000.00
Supervision	
Trash dumpsters / Cleanup	
MOT	
Permit Fees	\$ 5,000.00
Demolition	\$ 65,000.00
Remove existing concrete sidewalk in preparation for new precast pavers	
Pressure Cleaning	\$ 4,000.00
Pressure clean all existing precast pavers (street crosswalks / inter-section tables / etc.)	
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Modifications to existing irrigation	
Mulching	
Paver Sidewalks (<i>Approx. 500' x 8' x 2 sides = 8,000 sf / block</i>)	\$ 96,000.00
Remove existing concrete sidewalk	
Grade & Compact in preparation for new precast pavers	
Furnish and install new precast pavers	
Streetscape Amenities	\$ 10,000.00
Trash receptacles / Decorative pottery / Pergolas / Benches	
Subtotal Cost for One (1) block of Improvements	\$ 245,000.00
Contractor OH&P @ 15%	36,000.00
Total Budget Amount:	\$ 281,000.00 / Block

Attachment 2, Pg. 2

10th STREET SAFETY IMPROVEMENTS / HARDSCAPE ENHANCEMENTS

Cost for Typical One (1) Block Section

SCOPE OF WORK**General Improvements:**

- Up-grade Bus Stop areas with new Trash Receptacles, Plant Pottery *(and possible Pergola)*

Landscape Improvements:

- Prune and shape or remove existing palms along street *(where necessary)*
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General Conditions	\$ 25,000.00
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Subtotal Cost for One (1) block of Improvements	\$ 286,500.00
Contractor OH&P @ 15%	43,000.00
Total Budget Amount:	\$ 329,500.00 / Block

February 17, 2022

Mr. John Wille, Capital Improvements
Mr. Roberto F. Travieso, MPA, Director of Public Works
Mr. Dwayne Bell, Sr., Operations Manager
Town of Lake Park
640 Old Dixie Hwy.
Lake Park, FL 33403

VIA ELECTRONIC MAIL ONLY – jwille@lakeparkflorida.gov; rtravieso@lakeparkflorida.gov;
dbell@lakeparkflorida.gov

**RE: Landscape Architecture Services for the Park Avenue and 10th Street Streetscape
Landscape Contract Documents**

Dear Mr. Wille, Mr. Travieso and Mr. Bell:

We appreciate the opportunity to submit the following proposal for the Park Avenue and 10th Street Streetscape Renovation. This proposal outlines the services necessary for the preparation and representation of landscape architecture services for the renovation to the Park Avenue Streetscape in the Town of Lake Park.

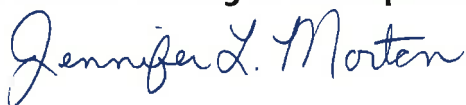
We understand your desire to create an exceptional look and feel to showcase the Park Avenue and 10th Street streetscape experience through the design of the landscape architectural treatments. JMorton Planning and Landscape Architecture will provide construction documents which work to implement the Client's vision for the Park Avenue and 10th Street Streetscape Renovation.

The following proposal is divided into tasks and materials under a Preparation or Representation group. Generally, **Preparation** entails the preparation of documents and/or materials for review. Likewise, **Representation** entails such things as coordination, correspondence and attendance at meetings and/or conference calls. Once the submittal has been made to the Town of Lake Park, all preparation, coordination and plan document revisions will be billed hourly under the Representation portion of the contract.

Should you have any questions regarding this proposal, please contact our office. We look forward to working with you on this project and future developments.

Sincerely,

JMorton Planning & Landscape Architecture, Inc.



Jennifer L. Morton, PLA, LEED AP
LA 0001666

PROPOSAL FOR Park Avenue and 10th Street Streetscape Renovation

Section I: Approval Overview and Schedule

Landscape Design Services

1. **PREPARATION OF LANDSCAPE PLAN** **\$15,750**

- Preparation of base maps from the existing site and landscape plans as provided by the client, supplemented with notes or sketches from site visits performed by our office.
- Refinement of the design theme and landscape concept developed previously by our office which will be used to integrate the existing landscape features selected to remain for each block area with proposed tree and shrub elements to supplement and enhance the Park Avenue streetscape planting starting at 7th Street and ending at 10th Street. These plans will depict species, size and relationships of plant materials.
- Refinement of the design theme and landscape concept developed previously by our office which will be used to integrate the existing landscape features selected to remain for each block area with proposed tree and shrub elements to supplement and enhance the median landscape of the 10th Street streetscape planting starting at Park Avenue and ending at Northern Drive. These plans will depict species, size and relationships of plant materials.
- Preparation of an illustrative typical block concept plan sketch for the Park Avenue and 10th Street streetscapes. This concept will be used to guide the site specific landscape plan for the street blocks.
- Preparation of final working drawings refining the planting plans for the Park Avenue streetscape planting incorporating the existing walkways and open space areas including exterior landscape strips, accent areas and planters.
- Preparation of final working drawings refining the planting plans for the 10th Street median streetscape planting.
- Preparation of final plant schedule identifying the plant species, common name, botanical name, size, quantity, and specialized plant characteristics.
- Plant installation specifications, planting details and special requirements.

Hardscape Design Services

2. **PREPARATION OF PEDESTRIAN SIDEWALK PLANS** **\$8,325**

- Preparation of base maps from the existing site and landscape plans as provided by the client, supplemented with notes or sketches from site visits performed by our office.
- Refinement of the design theme and hardscape concept developed previously by our office which will be used to integrate the existing site and landscape features for a sidewalk with decorative pavement or unit pavers, and banding treatment to replace the existing

- concrete sidewalk located within the public right of way for Park Avenue starting at 7th Street and ending at 10th Street. Replace the existing concrete sidewalk located within the public right of way for 10th Street starting at Park Avenue and ending at Northern Drive.
- Refine concept with attention to finishes, detailing and select materials to fix the character of the pedestrian station.
- Preparation of final hardscape plans showing location, layout and material reference of elements.

3. Representation of All Plans \$5,800

- Attendance at three (3) design progress meetings with design team and/or government representatives to discuss information pertinent to project (includes all project coordination discussions).
- Attendance at a community outreach meeting to review the features and benefits of the final landscape plan.
- Attendance at the Town of Lake Park City Commission meeting to present the landscape design contract document proposal.
- Attendance at the Town of Lake Park City Commission meeting to present the final landscape design plans.
- Total Project Manager Hourly not to exceed 29 hours. (29 X \$200 = \$5,800)

4. Unforeseen Design Considerations \$13,000

- Provide design services for added unforeseen landscape, hardscape or site furnishing program elements that may be required as the project program is finalized.
- Attendance at additional meetings beyond those described above up to the contract allowance amount.
- Program elements that require technical support such as civil or structural engineering, professional survey documentation or irrigation system design are not included.

PROPOSAL TOTAL \$42,875

Please note: Preparation of materials and submittals outside of this Scope are considered hourly work and will be billed under the Representation portion of the contract.

Retainer

A retainer in the amount of **\$6,500** is required by our office along with the signed proposal prior to commencement of any work on this project. This sum will be retained until the completion of the project to assure payment.

Fees

This fee estimate is valid for ninety (90) days from the date of this proposal.

The above fees do not include the fees of other professionals or regular reimbursable expenses such as prints, sepia's, mylars, travel expenses including mileage, photographic work, etc. Such expenses shall be billed at the rate of cost plus an additional 15%.

Fees billed shall become due and payable upon client receiving said invoice. Unpaid bills shall bear interest at a rate of eighteen percent (18%) per annum, commencing thirty (30) days after the invoice date until date paid. In the event legal action is required to collect past due fees, JMorton Planning & Landscape Architecture shall be entitled to recover all reasonable attorney fees and costs including appeal.

Payment

JMorton Planning & Landscape Architecture requires payment for all services rendered within thirty (30) days of the invoice date as specified above. If payment for services rendered is not received within thirty (30) days, a Stop Work Order will be issued for your project and no professional services or representation will be conducted by our firm until your account is paid in full.

Marketing

JMorton Planning & Landscape Architecture retains the right to post a marketing/information sign on the subject property.

Additional Work

The Scope of Services which is identified under this proposal as being included with the fee schedule cannot contemplate certain elements which are not controlled by our firm. The changes created by our clients, by governmental agencies, or yet a third entity which is beyond control of our firm, are not included in this proposal and are considered additional work. The following are some examples of items which are included in the proposal and those that are not:

Items included in this proposal are as follows:

- Documents and drawings for a complete application to a listed governmental agency if noted under Scope of Services.
- Attendance and representation at the number and types of meetings described under Scope of Services.

Items **not** considered as part of this proposal are as follows:

- Additional revisions to drawings above the number listed in this proposal.
- Preparation of revisions to documents after governmental submittal or changes requested by client, governmental agencies or third entities that are not listed as code requirement.
- Revisions to documents based on Conditions of Approval placed on a project.
- Attendance at additional meetings, site observation, public hearings, or other events, which are not specified in this proposal.
- Preparation of additional documents, drawings or coordination with other professionals is not considered part of this proposal.

Park Avenue and 10th Street Streetscape
February 17, 2022

Page 5

- Preparation of revisions to drawings based on incomplete information being provided by client or other consultant, or changes in the project program.

Hourly Rates

At the request of the client, or as identified in the Scope of Services, JMorton Planning & Landscape Architecture shall provide additional work on an hourly basis based on our current hourly rates:

PLANNING SERVICES	
Principal Planner	\$325.00
Senior Project Manager	\$250.00
Project Manager	\$200.00
Planner	\$125.00
LANDSCAPE ARCHITECTURE SERVICES	
Principal Landscape Architect	\$325.00
Senior Project Manager	\$250.00
Project Manager	\$200.00
Senior Designer	\$200.00
Designer	\$125.00

OTHER PROFESSIONAL SERVICES	
Expert Witness	\$500.00
Administrative Assistant	\$105.00

DIRECT EXPENSE	
Copies, Black & White	\$0.40
Copies, Color	\$1.50 ea.
All Third Party Expenses	Cost + 15%

If the terms of this proposal are acceptable, please sign below and return to our office as soon as possible.

Signature / Title

Date

Company

Mailing Address

Email for Billing

Email for Correspondence



Jennifer L. Morton, JMorton Planning & Landscape Architecture

February 17, 2022

Mr. John Wille, Capital Improvements
Mr. Roberto F. Travieso, MPA, Director of Public Works
Mr. Dwayne Bell, Sr., Operations Manager
Town of Lake Park
640 Old Dixie Hwy.
Lake Park, FL 33403

VIA ELECTRONIC MAIL ONLY – jwille@lakeparkflorida.gov; rtravieso@lakeparkflorida.gov;
dbell@lakeparkflorida.gov

**RE: Landscape Architecture Services for the Park Avenue and 10th Street Streetscape
Landscape Contract Documents**

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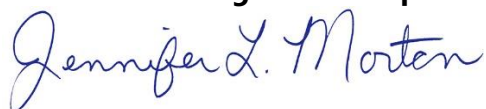
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The following proposal is divided into tasks and materials under a Preparation or Representation group. Generally, **Preparation** entails the preparation of documents and/or materials for review. Likewise, **Representation** entails such things as coordination, correspondence and attendance at meetings and/or conference calls. Once the submittal has been made to the Town of Lake Park, all preparation, coordination and plan document revisions will be billed hourly under the Representation portion of the contract.

Should you have any questions regarding this proposal, please contact our office. We look forward to working with you on this project and future developments.

Sincerely,

JMorton Planning & Landscape Architecture, Inc.



Jennifer L. Morton, PLA, LEED AP
LA 0001666

PROPOSAL FOR Park Avenue and 10th Street Streetscape Renovation

Section I: Approval Overview and Schedule

Landscape Design Services

- 1. PREPARATION OF LANDSCAPE PLAN \$15,750**
- Preparation of base maps from the existing site and landscape plans as provided by the client, supplemented with notes or sketches from site visits performed by our office.
 - Refinement of the design theme and landscape concept developed previously by our office which will be used to integrate the existing landscape features selected to remain for each block area with proposed tree and shrub elements to supplement and enhance the Park Avenue streetscape planting starting at 7th Street and ending at 10th Street. These plans will depict species, size and relationships of plant materials.
 - Refinement of the design theme and landscape concept developed previously by our office which will be used to integrate the existing landscape features selected to remain for each block area with proposed tree and shrub elements to supplement and enhance the median landscape of the 10th Street streetscape planting starting at Park Avenue and ending at Northern Drive. These plans will depict species, size and relationships of plant materials.
 - Preparation of an illustrative typical block concept plan sketch for the Park Avenue and 10th Street streetscapes. This concept will be used to guide the site specific landscape plan for the street blocks.
 - Preparation of final working drawings refining the planting plans for the Park Avenue streetscape planting incorporating the existing walkways and open space areas including exterior landscape strips, accent areas and planters.
 - Preparation of final working drawings refining the planting plans for the 10th Street median streetscape planting.
 - Preparation of final plant schedule identifying the plant species, common name, botanical name, size, quantity, and specialized plant characteristics.
 - Plant installation specifications, planting details and special requirements.

Hardscape Design Services

- 2. PREPARATION OF PEDESTRIAN SIDEWALK PLANS \$8,325**
- Preparation of base maps from the existing site and landscape plans as provided by the client, supplemented with notes or sketches from site visits performed by our office.
 - Refinement of the design theme and hardscape concept developed previously by our office which will be used to integrate the existing site and landscape features for a sidewalk with decorative pavement or unit pavers, and banding treatment to replace the existing

- concrete sidewalk located within the public right of way for Park Avenue starting at 7th Street and ending at 10th Street. Replace the existing concrete sidewalk located within the public right of way for 10th Street starting at Park Avenue and ending at Northern Drive.
- Refine concept with attention to finishes, detailing and select materials to fix the character of the pedestrian station.
- Preparation of final hardscape plans showing location, layout and material reference of elements.

3. **Representation of All Plans** **\$5,800**

- Attendance at three (3) design progress meetings with design team and/or government representatives to discuss information pertinent to project (includes all project coordination discussions).
- Attendance at a community outreach meeting to review the features and benefits of the final landscape plan.
- Attendance at the Town of Lake Park City Commission meeting to present the landscape design contract document proposal.
- Attendance at the Town of Lake Park City Commission meeting to present the final landscape design plans.
- Total Project Manager Hourly not to exceed 29 hours. (29 X \$200 = \$5,800)

4. **Unforeseen Design Considerations** **\$13,000**

- Provide design services for added unforeseen landscape, hardscape or site furnishing program elements that may be required as the project program is finalized.
- Attendance at additional meetings beyond those described above up to the contract allowance amount.
- Program elements that require technical support such as civil or structural engineering, professional survey documentation or irrigation system design are not included.

PROPOSAL TOTAL **\$42,875**

Please note: Preparation of materials and submittals outside of this Scope are considered hourly work and will be billed under the Representation portion of the contract.

Retainer

A retainer in the amount of **\$6,500** is required by our office along with the signed proposal prior to commencement of any work on this project. This sum will be retained until the completion of the project to assure payment.

Fees

This fee estimate is valid for ninety (90) days from the date of this proposal.

The above fees do not include the fees of other professionals or regular reimbursable expenses such as prints, sepias, mylars, travel expenses including mileage, photographic work, etc. Such expenses shall be billed at the rate of cost plus an additional 15%.

Fees billed shall become due and payable upon client receiving said invoice. Unpaid bills shall bear interest at a rate of eighteen percent (18%) per annum, commencing thirty (30) days after the invoice date until date paid. In the event legal action is required to collect past due fees, JMorton Planning & Landscape Architecture shall be entitled to recover all reasonable attorney fees and costs including appeal.

Payment

JMorton Planning & Landscape Architecture requires payment for all services rendered within thirty (30) days of the invoice date as specified above. If payment for services rendered is not received within thirty (30) days, a Stop Work Order will be issued for your project and no professional services or representation will be conducted by our firm until your account is paid in full.

Marketing

JMorton Planning & Landscape Architecture retains the right to post a marketing/information sign on the subject property.

Additional Work

The Scope of Services which is identified under this proposal as being included with the fee schedule cannot contemplate certain elements which are not controlled by our firm. The changes created by our clients, by governmental agencies, or yet a third entity which is beyond control of our firm, are not included in this proposal and are considered additional work. The following are some examples of items which are included in the proposal and those that are not:

Items included in this proposal are as follows:

- Documents and drawings for a complete application to a listed governmental agency if noted under Scope of Services.
- Attendance and representation at the number and types of meetings described under Scope of Services.

Items **not** considered as part of this proposal are as follows:

- Additional revisions to drawings above the number listed in this proposal.
- Preparation of revisions to documents after governmental submittal or changes requested by client, governmental agencies or third entities that are not listed as code requirement.
- Revisions to documents based on Conditions of Approval placed on a project.
- Attendance at additional meetings, site observation, public hearings, or other events, which are not specified in this proposal.
- Preparation of additional documents, drawings or coordination with other professionals is not considered part of this proposal.

- Preparation of revisions to drawings based on incomplete information being provided by client or other consultant, or changes in the project program.

Hourly Rates

At the request of the client, or as identified in the Scope of Services, JMorton Planning & Landscape Architecture shall provide additional work on an hourly basis based on our current hourly rates:

PLANNING SERVICES	
Principal Planner	\$325.00
Senior Project Manager	\$250.00
Project Manager	\$200.00
Planner	\$125.00
LANDSCAPE ARCHITECTURE SERVICES	
Principal Landscape Architect	\$325.00
Senior Project Manager	\$250.00
Project Manager	\$200.00
Senior Designer	\$200.00
Designer	\$125.00

OTHER PROFESSIONAL SERVICES	
Expert Witness	\$500.00
Administrative Assistant	\$105.00

DIRECT EXPENSE	
Copies, Black & White	\$0.40
Copies, Color	\$1.50 ea.
All Third Party Expenses	Cost + 15%

If the terms of this proposal are acceptable, please sign below and return to our office as soon as possible.

Signature / Title

Date

Company

Mailing Address

Email for Billing

Email for Correspondence



Jennifer L. Morton, JMorton Planning & Landscape Architecture

Prepared for Town of Lake Park

Lake Park, Florida



Scale: 1' = 20'

PAVER HARDSCAPE PLAN

H1.02

Update on Park Avenue and 10th Street Hardscape and Landscape Improvements

Department of Public Works





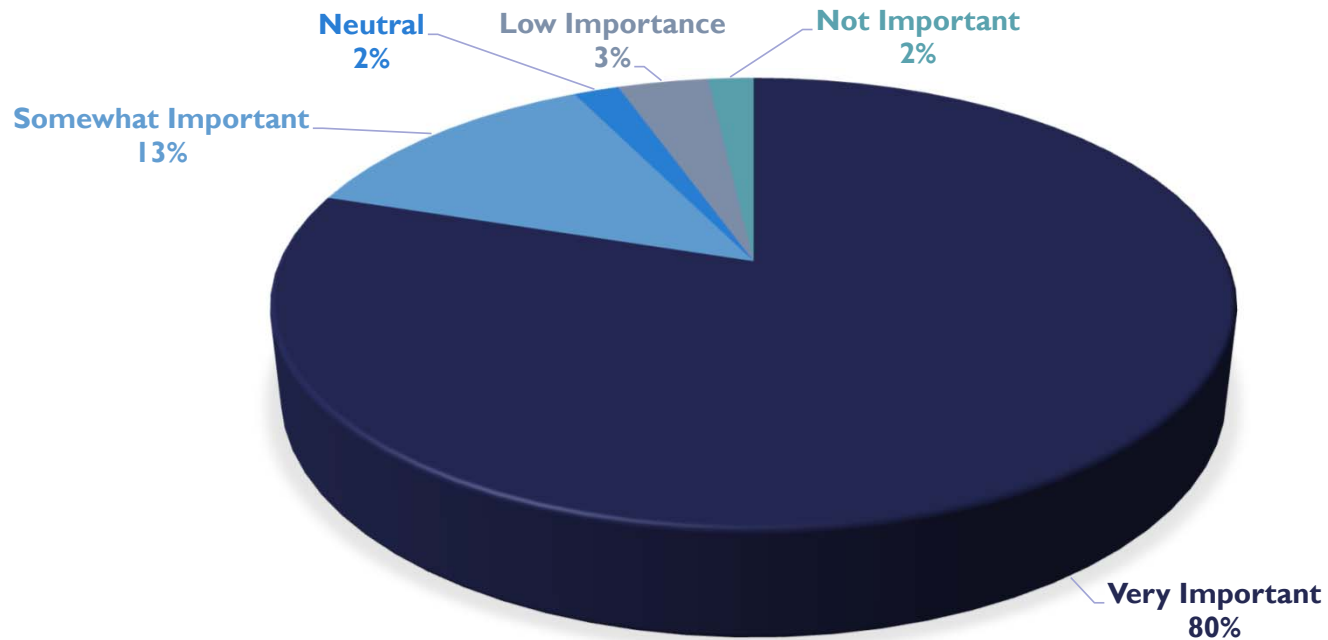
Update on the Public Workshop

ROBERTO TRAVIESO, DIRECTOR OF PUBLIC WORKS

Park Avenue & 10th Street Hardscape Improvements



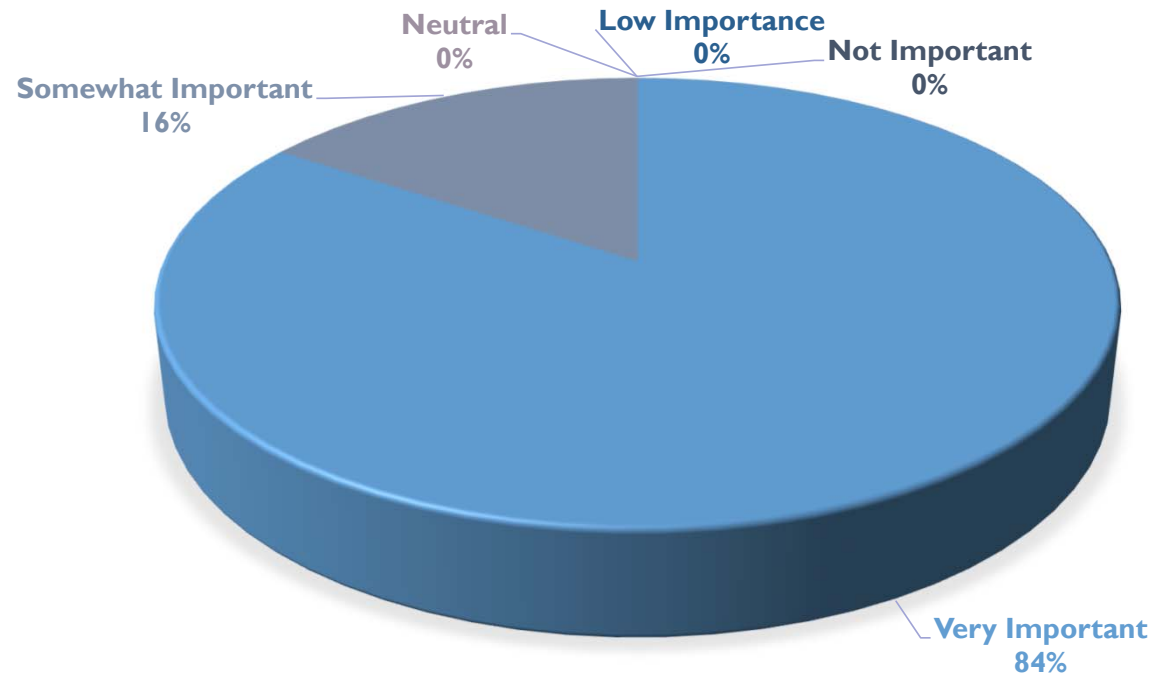
IMPLEMENT HARDSCAPE IMPROVEMENTS?



Park Avenue & 10th Street Landscape Improvements



IMPLEMENT LANDSCAPE IMPROVEMENTS?



Public Comments



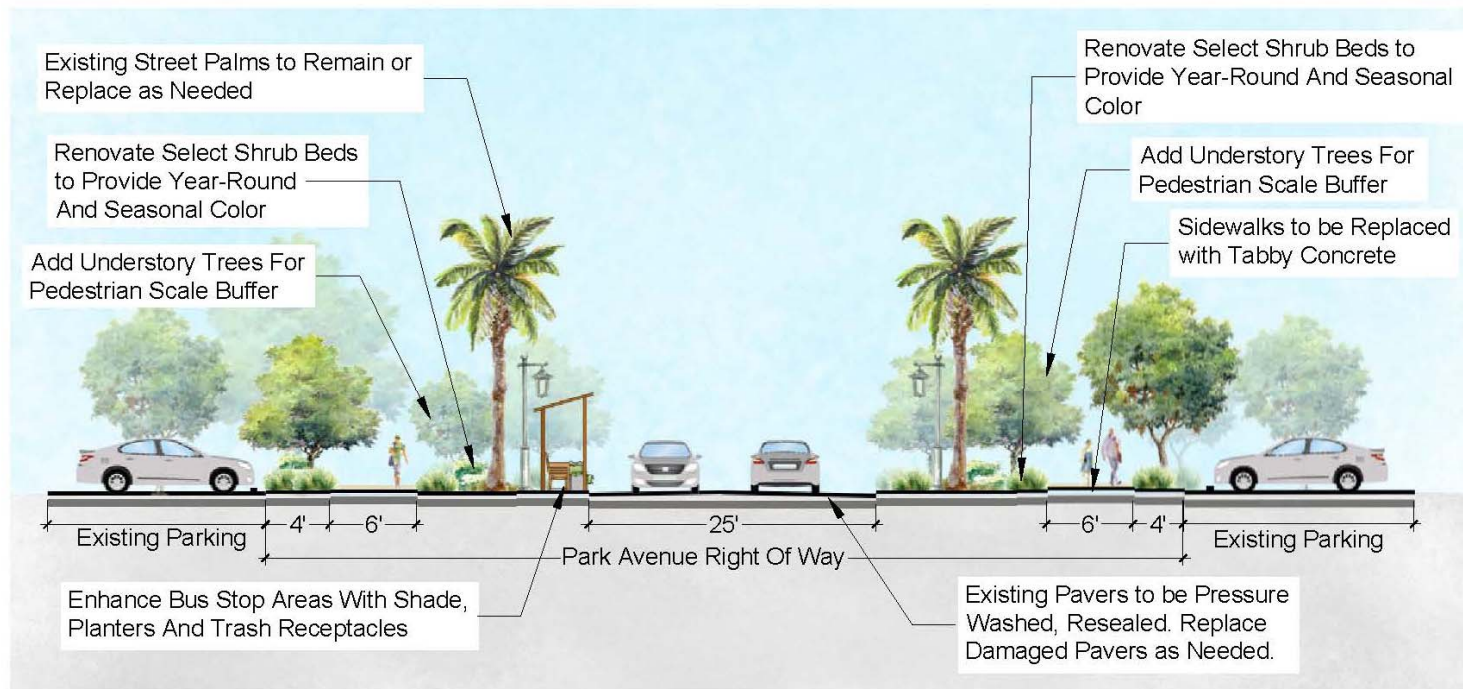
- Paver sidewalks create a big expense
- The intersection of Park Ave and 10th Street needs special attention
- Prefer native plants in common areas
- Use sponsorship from businesses/residences for trees
- Include sustainable plantings
- Will there be any public art?
- Trees are preferred over palms, art
- Add cycling markings or bike lanes
- Landscape should include art and sculptures
- Concerned with the length of project; implement quickly



Review of Streetscape Design Alternatives

JOHN WILLE, CAPITAL PROJECTS MANAGER

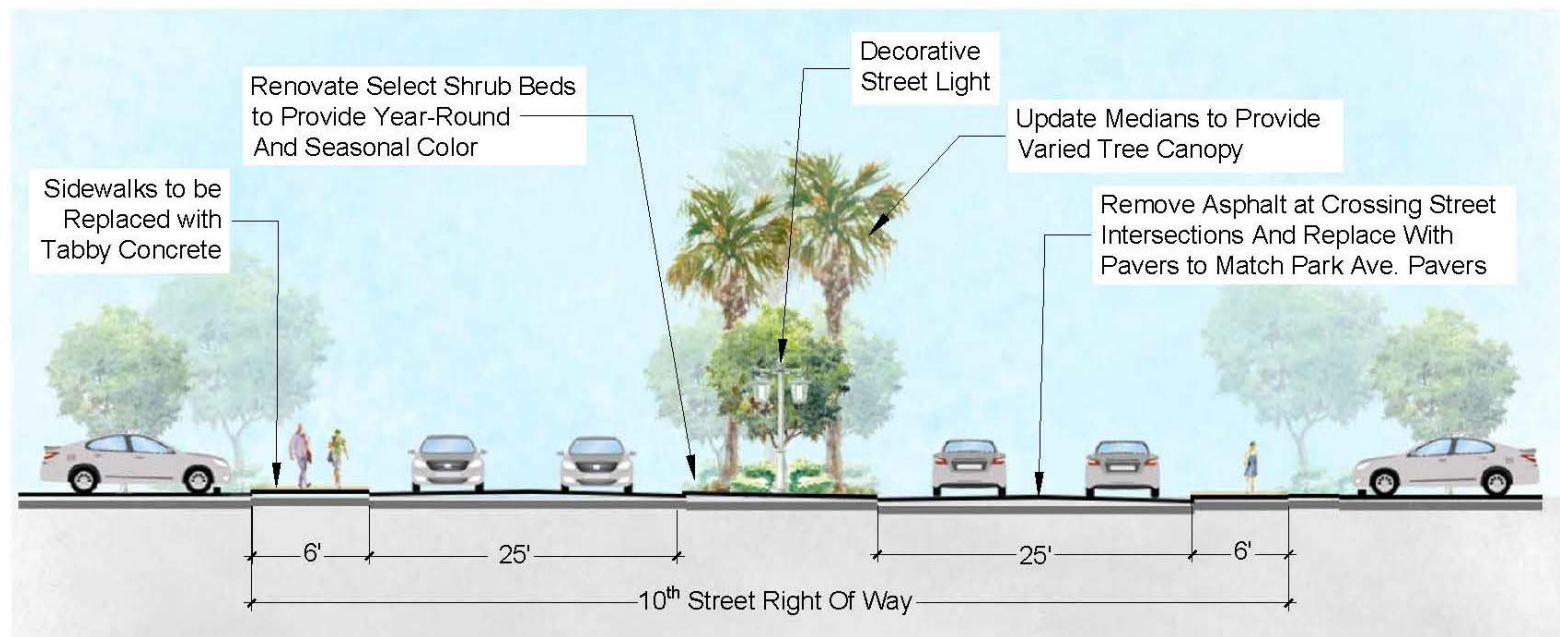
Conceptual Streetscape Typical Section



PARK AVENUE TYPICAL SECTION
PLAN NTS



Conceptual Streetscape Typical Section



10TH STREET TYPICAL SECTION
PLAN NTS



Construction Cost Estimates and Suggested Implementation Timeline

JOHN WILLE, CAPITAL PROJECTS MANAGER



Design Proposal for Streetscape Design

HAYS HENDERSON, PLA, JMORTON



Discussion/Questions



Town of Lake Park, Florida

Tree Board Meeting Minutes

Tuesday, April 11, 2023 at 6:00 PM

Town Hall Commission Chamber, 535 Park Avenue, Lake Park, FL 33403

Brady Drew	—	Chair
Pamela Frazier	—	Vice-Chair
Shana Phelan	—	Board Member
Gillian Kennedy Wright	—	Board Member

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision of the Tree Board, with respect to any matter considered at this meeting, such interested person will need a record of the proceedings, and for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Persons with disabilities requiring accommodations in order to participate in the meeting should contact the Town Clerk's office by calling 881-3311 at least 48 hours in advance to request accommodations.

CALL TO ORDER/ROLL CALL

6:00 P.M.

PRESENT

Brady Drew
Shana Phelan
Gillian Kennedy Wright
Lauren Paxton

PLEDGE OF ALLEGIANCE

Chair Drew

PRESENTATIONS:

1. Selection of a Chair and Vice-Chair.

Motion made to nominate Brady Drew as Chair and Gillian Kennedy Wright as Vice-Chair of the Board by Phelan, Seconded by Paxton.

Voting Yea: Drew, Kennedy Wright

CONSENT AGENDA:

2. January 10, 2023 Tree Board Meeting Minutes.

Motion made to approve the Consent Agenda by Phelan, Seconded by Paxton.

Voting Yea: Drew, Kennedy Wright

NEW BUSINESS:

3. Centennial Arbor Day Ceremony.

Special Events Director Riunite Franks explained that the annual Arbor Day Celebration would be on Friday, April 28, 2023 from 10:00 a.m. - 11:00 a.m. in Kelsey Park. She asked the Board to select which tree should be planted this year. The Board discussed the options and came to consensus to have the Buttonwood Tree planted this year.

PUBLIC COMMENT:

This time is provided for addressing items that do not appear on the Agenda. Please complete a comment card and provide it to the Agency Clerk so speakers may be announced. Please remember comments are limited to a TOTAL of three minutes.

None

COMMITTEE MEMBER COMMENTS:

Board Member Phelan stated that it was nice to see everyone again.

Chair Drew welcomed new Tree Board Member Lauren Paxton.

STAFF MEMBER COMMENTS:

None

ADJOURNMENT:

6:07 P.M.

FUTURE MEETING DATE: The next scheduled Tree Board Meeting will be conducted on May 9, 2023.

Chair Brady Drew

Town Seal

Town Clerk, Vivian Mendez, MMC

Approved on this _____ of _____, 2023