

# 66th Avenue - Phase 1A

## Indian River County

100% Landscape Plans - December 2020

Station 295+00 to 354+00

### INDEX OF LANDSCAPE PLANS

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### DEVELOPMENT TEAM

#### Client

Indian River County  
1840 25th Street  
Vero Beach, FL 32960  
Project Engineer:  
Richard B Szpyrka, P.E.

#### Civil Engineer

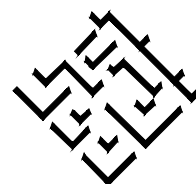
Arcadis  
Robert W. Lawson, P.E.  
1500 Gateway Blvd., Ste 200  
Boynton Beach, FL 33426  
P: 561.697.7002

#### Landscape Architect

Lucido & Associates, P.A.  
Thomas P. Lucido, RLA  
100 Avenue A, Suite 2A  
Fort Pierce, FL 34950  
P: 772.467.1301

#### Irrigation Consultant

Masuen Consulting, LLC  
5079 N. Dixie Highway #323  
Oakland Park, FL 33334  
P: 866.9278.1533 x 114



*Lucido & Associates*

*Land Planning/Landscape Architecture*

*Lic. #LC-0000335*

*100 Avenue A, Suite 2A, Ft. Pierce, Fl. 34950 772-467-1301, Fax 772-467-1303*

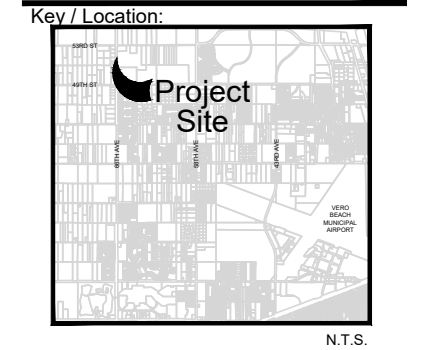
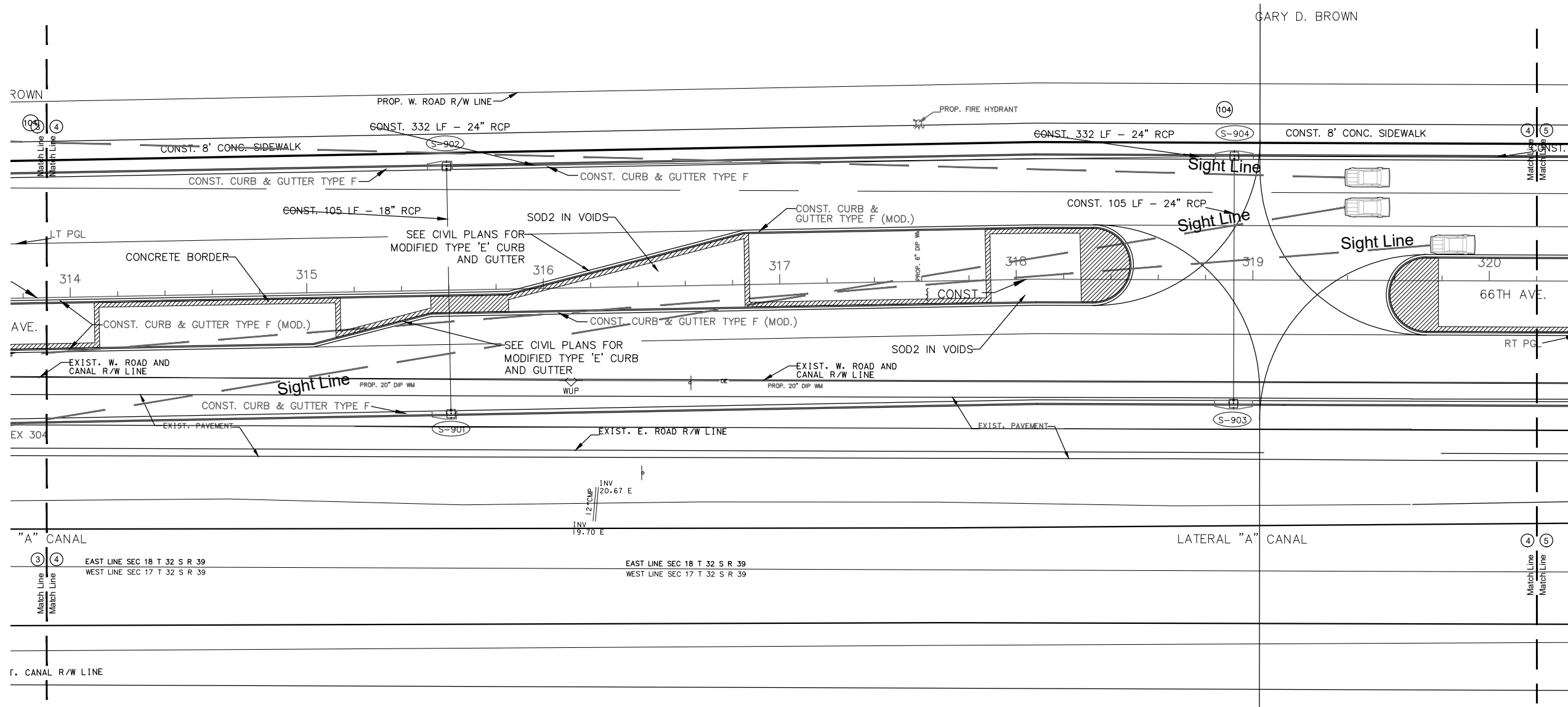








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**Project Team:**

**Client**  
 Indian River County  
 1840 25th Street  
 Vero Beach, FL 32960  
**Project Engineer:**  
 Etienne B. Bourgeois, P.E.

**Civil Engineer**  
 Arcadis  
 Hank Dettel, P.E.  
 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000

**Landscape Architect**  
 Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301

**Irrigation Consultant**  
 Masum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x.114

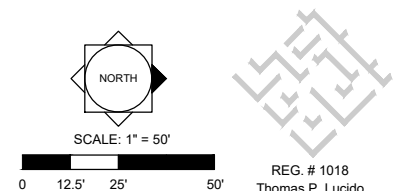
**66th Avenue  
 Phase 1A**

Indian River County  
**Roadway Landscape  
 Plan**

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	100% CD

**PLANT\_SCHEDULE**

TREES	COMMON NAME
	East Palatka Holly
	Japanese Privet Tree
	Live Oak
	Sabal Palm
SHRUBS	COMMON NAME
	Mammey Croton
	Schefflera
SHRUB AREAS	COMMON NAME
	Schefflera arboricola
GRASSES	COMMON NAME
	Dwarf Fakahatchee Grass
TREES TO BE REMOVED	
	Palm
	Oak
	Unknown

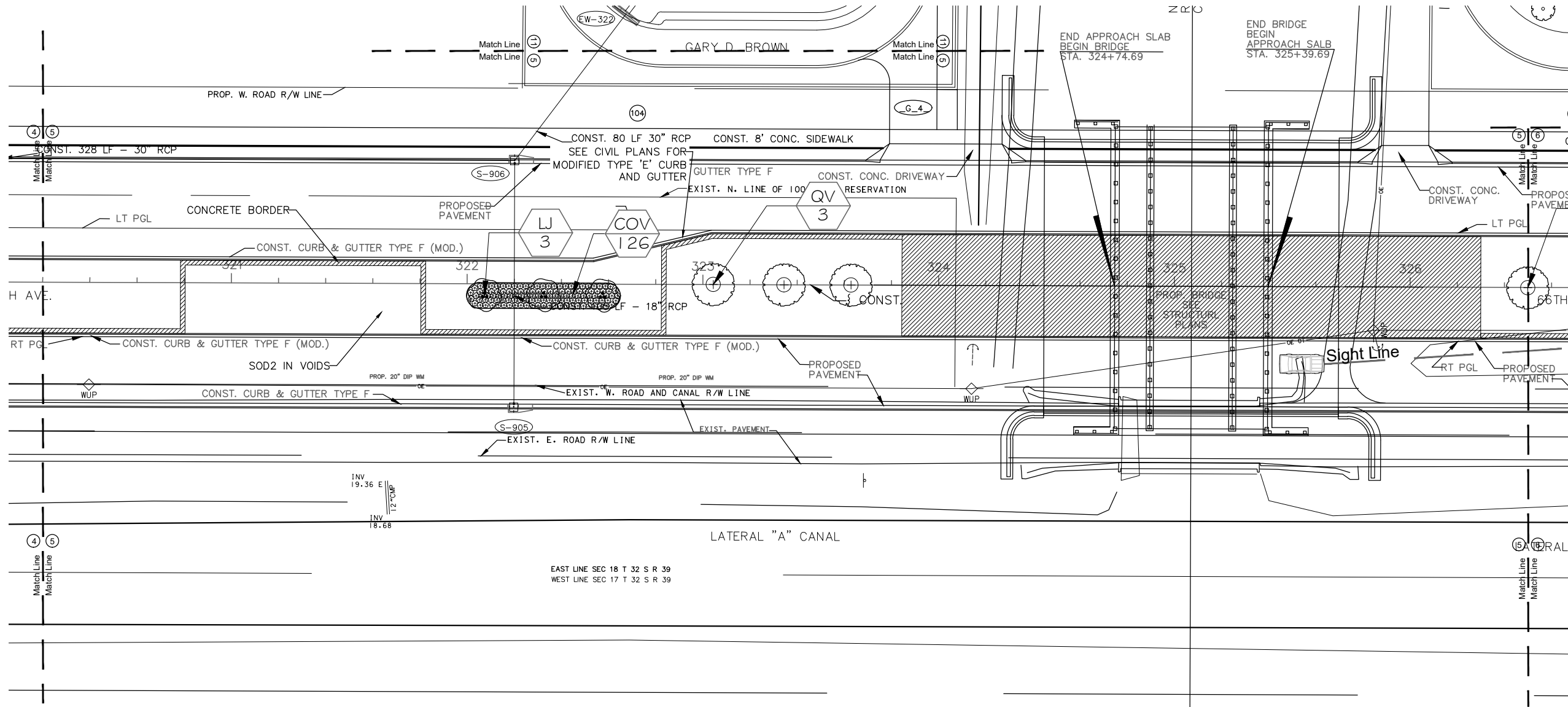


REG. # 1018  
 Thomas P. Lucido

Designer KV Sheet  
 Manager BN  
 Project Number 16-260  
 Municipal Number 00-000  
 Computer File 16-260\_66thAve\_RoadwayLandscapeCur

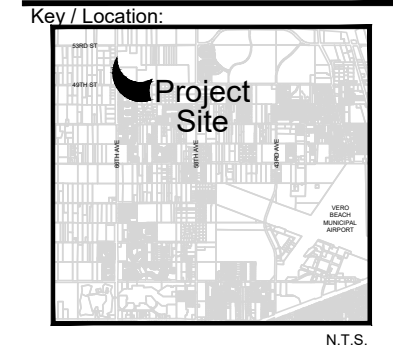
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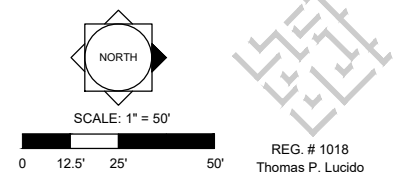
**Civil Engineer**  
 Arcadis  
 Hank Dettel, P.E.  
 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000

**Landscape Architect**  
 Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301

**Irrigation Consultant**  
 Masum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x.114

**66th Avenue Phase 1A**  
 Indian River County  
 Roadway Landscape Plan

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	100% CD

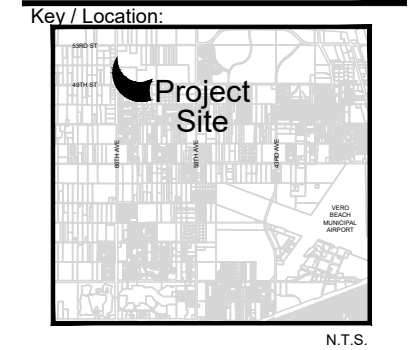
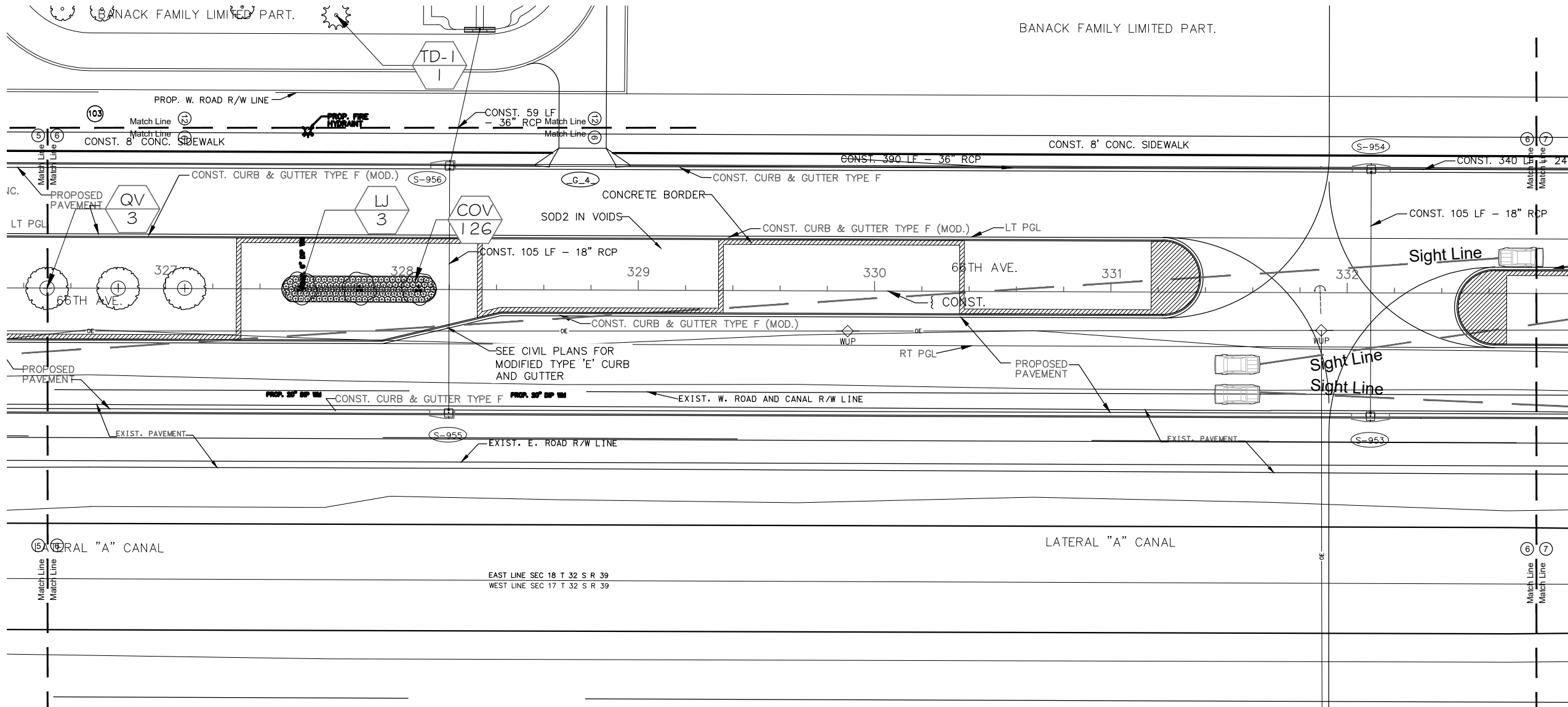


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Designer KV Sheet  
 Manager BN  
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**Project Team:**  
 Client: Indian River County  
 1840 25th Street  
 Vero Beach, FL 32960  
 Project Engineer: Etienne B. Bourgeois, P.E.  
 Civil Engineer: Arcadis  
 Hank Deibel, P.E.  
 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000  
 Landscape Architect: Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301  
 Irrigation Consultant: Masum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x.114

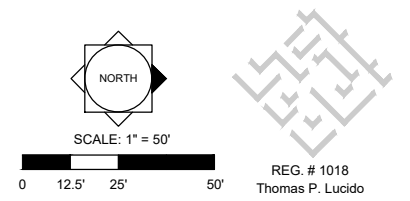
## 66th Avenue Phase 1A

Indian River County  
Roadway Landscape  
Plan

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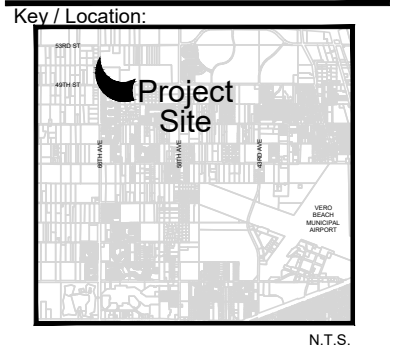
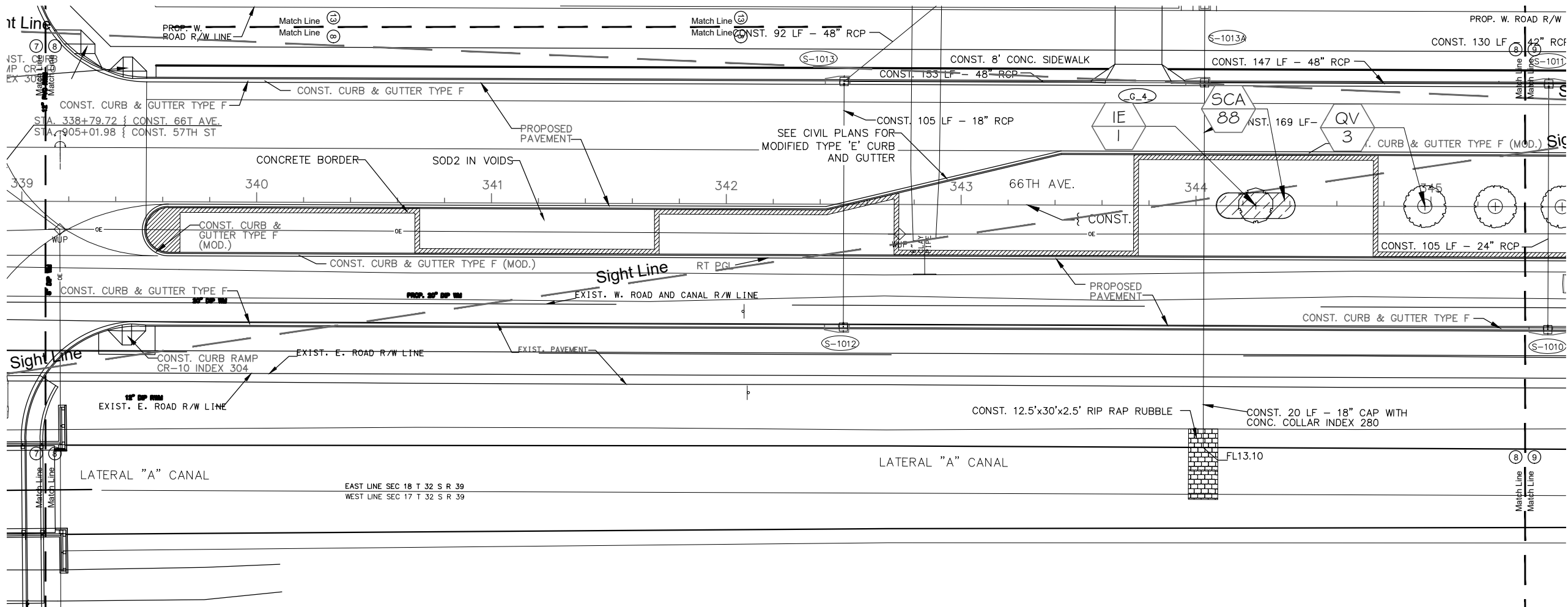


Designer: KV      Sheet  
 Manager: BN  
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 Etienne B. Bourgeois, P.E.

**Civil Engineer**  
 Arcadis  
 Hank Detail, P.E.  
 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000

**Landscape Architect**  
 Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301

**Irrigation Consultant**  
 Masum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x 114

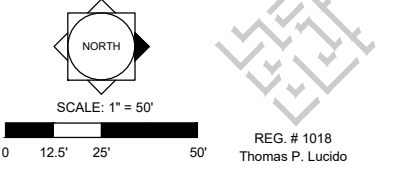
**66th Avenue Phase 1A**

Indian River County  
**Roadway Landscape Plan**

**PLANT SCHEDULE**

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	Unknown

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	100% CD



Designer KV Sheet  
 Manager BN  
 Project Number 16-260  
 Municipal Number 00-000  
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**8 of 19**

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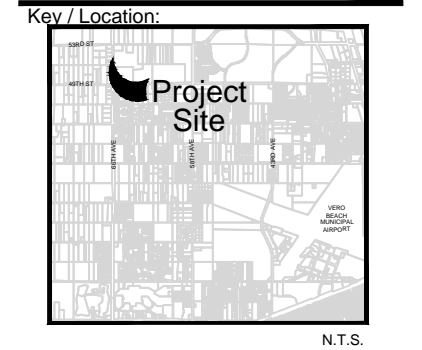




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## 66th Avenue - Roadway and Stormwater Area Landscape Improvements Plant Schedule

FDOT Pay Item No.	SYM	Description	Spacing	SIZE	UNIT	QTY
<b>580-1-1 Landscape Complete - Small Plants</b>						
	SP2	Sand Cord Grass - <i>Spartina bakeri</i>	36"	1G, 12" HT x 10" SPR, F	EA.	260
	MC2	Wax Myrtle - <i>Myrica cerifera</i>	36"	1G, 18" OA, FTB	EA.	260
	CH2	Green Coco Plum - <i>Chrysobalanus icaco</i>	36"	1G, 18" HT x 12" SPR, F	EA.	260
	PON	Pickereel Weed - <i>Pontederia cordata</i>	24"	BR, Clean, Free of Weeds	EA.	850
	ELE	Jointed Spikerush - <i>Eleocharis interstincta</i>	24"	BR, Clean, Free of Weeds	EA.	1629
	SAT	Duck Potato - <i>Sagittaria lancifolia</i>	24"	BR, Clean, Free of Weeds	EA.	850
	COV	Mammey Croton - <i>Codiaeum variegatum</i> 'Mammey'	24"	3G, 24" OA, F	EA.	252
	TRF	Dwarf Fakahatchee Grass - <i>Tripsacum floridanum</i>	30"	3G, 18" OA, FTB	EA.	357
	SCA	Green Schefflera - <i>Schefflera arboricola</i>	24"	3G, 18" OA, FTB	EA.	176
	SCT	Variegated Schefflera - <i>Schefflera arboricola</i> 'Trinette'	24"	3G, 24" HT x 18" SPR, F, 30" OC	EA.	50
<b>580-1-2 Landscape Complete - Large Plants</b>						
	IE	East Palatka Holly - <i>Ilex attenuata</i> 'East Palatka'		FG, 12' HT x 6' SPR, 3"C, SP, AS	EA.	3
	LJ	Japanese Privet Tree - <i>Ligustrum japonicum</i>		CG, 12'OA, 8' CT, STD, F, SP, AS	EA.	6
	QV	Live Oak - <i>Quercus virginiana</i>		FG, 12' HT x 6' SPR, 3"C, F, SP, HO W/FEEDER ROOTS EXPOSED, AS	EA.	16
	SP	Cabbage Palm - <i>Sabal palmetto</i>		FG, 8'-20' CT HT, BTD OR SLK TR, SUN GROWN, HV CAL, SP, HURRICANE CUT, AS	EA.	30
	AR1	Red Maple - <i>Acer rubrum</i>		7G, 5' OA, 1"C	EA.	23
	TD-1	Bald Cypress - <i>Taxodium distichum</i>		7G, 5' OA	EA.	18
<b>570-1-2 Performace Turf- Sod</b>						
	SOD1	<i>Paspalum notatum</i> - Argentine Bahia	N/A	Solid sod; certified weed, disease and pest free	SY	Refer to Civil Engineering Plans
	SOD2	<i>Stenotaphrum secundatum</i> - St. Augustine	N/A	Solid sod; certified weed, disease and pest free	SY	



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 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000



**Landscape Architect**  
 Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301


**Irrigation Consultant**  
 Masuen Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 956.9278.1533 x 114

### 66th Avenue Phase 1A

Indian River County  
Plant Schedule

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	Revs. Per County Comments
12/11/17	BN	100% CD
12/7/20	BN	Plant Schedule Column Width

  
 SCALE: 1" = NTS  


  
 REG. # 1018  
 Thomas P. Lucido

Designer: KV Sheet  
 Manager: BN  
 Project Number: 16-260  
 Municipal Number: 00-000  
 Computer File: 16-260\_66thAve\_RoadwayLandscapeCurrent



LANDSCAPE SPECIFICATIONS

PART 1: GENERAL CONDITIONS

- 1.01 SCOPE: The landscape contract includes the supplying and planting of all trees, shrubs, vines, and ground cover together with all necessary labor, equipment, tools and materials needed for the successful completion, execution and maintenance of the landscape plans.
1.02 AGENCY STANDARDS: Grades and standards of Florida Plant Materials published by the State of Florida Department of Agriculture, Tallahassee, Florida.
1.03 SITE EXAMINATION: The Landscape Contractor shall personally examine the site and fully acquaint him/herself with all of the existing conditions in order that no mis-understanding may afterwards arise as to the character or extent of the work to be performed, and, additionally, in order to acquaint him/herself with all precautions to be taken in order to avoid injury to property or persons.
1.04 ERRORS AND OMISSIONS: The plant list is a part of the drawings and is furnished as a convenience. The plant list indicates the name, size and quantities of specific plant materials as called for and is located on the drawings.
1.05 EXECUTION OF THE WORK: The Landscape Contractor shall have his labor crews controlled and directed by a Foreman well versed in plant materials, planting methods, reading plans, and coordination between job and nursery in order to execute installation correctly and in a timely manner.
1.06 PROTECTION OF PUBLIC AND PROPERTY: The Landscape Contractor shall protect all materials and work against injury from any cause and shall provide and maintain all necessary safeguards for the protection of the public.
1.07 CHANGES AND EXTRAS: The Contractor shall not start work on any changes or "extras" in the project until a written agreement setting forth the adjusted prices has been executed by the Owner and the Contractor.
1.08 GUARANTEE: The Landscape Contractor shall furnish a written guarantee warranting all materials, workmanship and plant materials, except sod, for a period of 18 MONTHS from the time of completion and acceptance by the Landscape Architect and Owner.
1.09 CARE AND MAINTENANCE: The Landscape Contractor shall be responsible for the care and maintenance of all plant materials and irrigation when applicable until final acceptance by the Owner or Landscape Architect.
1.10 SAFETY: It shall be the responsibility of the Landscape Contractor to protect all persons from injury and to avoid property damage.
1.11 CONTRACTOR QUALIFICATION: The Owner may require the apparent contractor (s) to qualify him/herself to be a responsible entity by furnishing any or all of the following documentary data:
1.12 INSURANCE AND BONDING: The contractor (s) shall submit proof of insurance for this job for the time period that the work is done.
1.13 PERMITS AND CERTIFICATES: All contractors shall secure and pay for all permits and certificates required for his/her class of work.

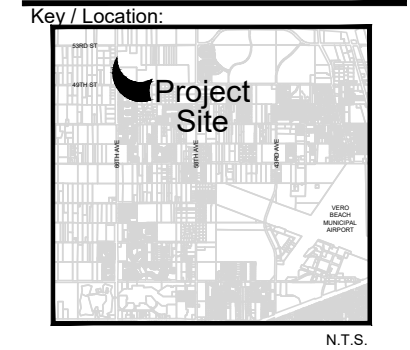
PART 2: MARTERIALS

- 2.01 PLANT MATERIALS: A complete list of plants is shown on the drawings, including a schedule of quantities, sizes, and such other requirements deemed necessary.
B. Substitutions: Substitutions of plant materials or changes in size or spacing of materials will be permitted ONLY upon written authorization by the Owner or the Landscape Architect.
C. All plant materials shall have a habit of growth that is normal for the species and shall be healthy, vigorous and equal to or exceed the measurements specified in the plant list, which are the minimum acceptable sizes.
D. All plant materials shall be nursery grown, unless otherwise noted, Florida #1 or better and shall comply with all required inspections, grading standards and plant regulations as set forth by the Florida Department of Agriculture's Grades and Standards for Nursery Plants, most current addition and Grades and Standards for Nursery Plants, most current addition.
E. Plants that do not have the normal balance of height and spread typical for the respective plant shall not be acceptable.
F. The Landscape Contractor shall install each plant to display its best side. Adjustments may be required if plants are not installed properly and/or approved by the Landscape Architect at no additional cost to owner.

INSPECTION

- A. The Landscape Architect and Owner may inspect trees and shrubs at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size and quality.
2.03 PROTECTION OF PLANT MATERIALS: Balled and burlapped plants (B & B) shall be dug with firm natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary for full recovery of the plant.
2.04 STORAGE: All plant materials shall be stored on the site in designated areas, specified by the Landscape Architect or Owner's agent.
2.05 PROTECTION DURING PLANTING: Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling or bark slippage by means of burlap, wood battens or other approved methods.
2.06 TOP SOIL: Planting soil for all plantings shall consist of topsoil and be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity of the project site that produces heavy growth.
2.07 FERTILIZER: Commercial fertilizer shall comply with the state and local fertilizer laws. Nitrogen shall not be less than 40% from organic source.
B. Thoroughly mixed 3 lbs. of commercial fertilizer to each cubic yard of planting soil.
C. Tablettized fertilizer shall be Agriform planting tablets 20-10-5 formula, 21 gram or equal.
PART 3 EXECUTION DIGGING: The Landscape Contractor shall exercise care in digging and other work so as not to damage existing work, including overhead wires, underground pipes and cables and the pipes and hydrants of watering systems.
3.02 GRADING: Grading for drainage, swales, etc. to within 4 inches of the finished grade to be provided by others.
3.03 PLANTING: Planting shall take place during favorable weather conditions.
B. The Contractor shall call for utility locates and ascertain the location of all utilities and easements so proper precautions can be taken not to damage or encroach on them.
C. Tree Planting shall be located where it is shown on the plan.
D. Excavation of holes shall extend to the required subgrades as specified on the planting diagrams located in the landscape plans.
E. A representative number of planting pits (a minimum of one in every 25 feet throughout the entire site) shall be tested for proper drainage.
F. Planting pits shall be excavated to the following dimensions and backfilled with Topsoil- see Landscape Area Preparation Detail;
G. No planting or laying of sod shall be initiated until the area has been cleaned of existing sod or other plant materials, rough grass, weeds, debris, stones etc. and the ground has been brought to an even grade, with positive drainage away from buildings and towards drain inlets and swales and approved by Landscape Architect or owner's rep.
H. Each plant shall be planted in an individual hole as specified for trees, shrubs, and vines.

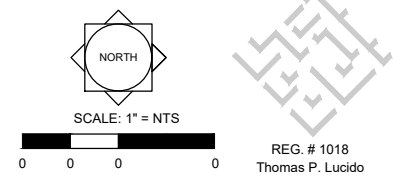
- I. All plants shall be set to ultimate finished grade. No filling will be permitted around trunks or stems.
J. All flagging ribbon shall be removed from trees and shrubs before planting.
K. Excess excavation (fill) from all holes shall be removed from the site, at no additional expense to Owner.
L. All palms shall be backfilled with sand, thoroughly washed in during planting operations and with a shallow saucer depression left at the soil line for future watering's.
3.04 A. PRUNING: Remove dead and broken branches from all plant material.
B. Make all cuts with sharp instruments flush with trunk or adjacent branch, in such a manner as to insure elimination of stubs.
C. Trees shall not be poled or topped.
D. Remove all trimming from site.
3.05 GUYING:
A. All trees over six (6') feet in height shall, immediately after setting to proper grade, be guyed with three sets of two strands, No. 12 gauge malleable galvanized iron, in tripod fashion.
B. Wires shall not come in direct contact with the tree but shall be covered with an approved protection device at all contact points.
C. Stake & Brace all trees larger than 12' oa.
D. Turnbuckles for guying trees shall be galvanized or cadmium plated and shall be of adequate size and strength to properly maintain light guy wires.
3.06 WATER: Each plant or tree shall be thoroughly watered in after planting.
B. Prior to installing any irrigation system components, the contractor shall obtain a water sample from the proposed water supply and conduct a particle size and count analysis on the sample using the services of a reputable lab certified in such analysis.
3.07 SOD:
A. The Landscape Contractor shall sod all areas indicated on the drawings.
B. It shall be the responsibility of the Landscape Contractor to fine grade all landscape areas, eliminating all bumps, depressions, sticks, stones, and other debris.
C. The sod shall be firm, tough texture, having a compacted growth of grass with good root development.
D. Before being cut and lifted, the sod shall have been mowed at least three times with a lawn mower, with the final mowing not more than seven days before the sod is cut.
E. 6-6-6 fertilizer with all trace elements is to be applied at the rate of 40 lbs. per 1,000 sq. ft. prior to laying sod.
F. Solid sod shall be laid with closely abutting, staggered joints with a tamped or rolled, even surface.
G. The finished level of all sod areas after settlement shall be one (1") inch below the top of abutting curbs, walks, paving and wood borders to allow for building turf.
H. If in the opinion of the Landscape Architect, top dressing is necessary after rolling, clean yellow sand will be evenly applied over the entire surface and thoroughly washed in.
3.08 SEEDING:
A. The Landscape Contractor shall remove all vegetation and rocks larger than (1") in diameter from areas to be seeded, scarify the area, then apply fertilizer at a rate of 500 lbs. per acre.
B. Application: Argentine Bahia Grass seed- 200 Pounds per acre mixed with common hulled Bermuda seed- 30 lbs. per acre.
C. Roll immediately after seeding with a minimum 500 pound roller, then apply straw mulch at the rate of 2,500 pounds per acre.
D. Apply fertilizer at the rate of 150 lbs. per acre 45-60 days after seeding.
3.09 CLEANING UP:
A. The contractor shall at all times keep the premises free from accumulations of waste materials or rubbish caused by his employees or work.
3.10 MAINTENANCE:
A. Maintenance shall begin immediately after each plant is installed and shall continue until all planting has been accepted by the Owner or Landscape Architect.
B. Proper protection to lawn areas shall be provided and any damage resulting from planting operations shall be repaired promptly.
C. Replacement of plants during the maintenance period shall be the responsibility of the Contractor, excluding vandalism or damage on the part of others, lighting, or hurricane force winds, until final acceptance.
D. In the event that weeds or other undesirable vegetation become prevalent, it shall be the Contractor's responsibility to remove them.
E. Trees or other plant material which fall or are blown over during the maintenance period will be reset by the Contractor at no additional expense to the Owner, the only exception being hurricane force winds.
3.11 COMPLETION, INSPECTION AND ACCEPTANCE:
A. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed or implied in the Drawings and in the Specifications, including the complete removal of all trash, debris, soil or other waste created by the Landscape Contractor.
B. Inspection of work to determine completion of contract, exclusive of the possible replacement of plants, will be made by the Owner and/or Landscape Architect at the conclusion of all planting and at the request of the Landscape Contractor.
C. All plant material shall be alive and in good growing condition for each specified kind of plant at the time of acceptance.
D. After inspection, the Landscape Contractor will be notified by the Owner of the acceptance of all plant material and workmanship, exclusive of the possible replacement of plants subject to guarantee.
E. All trees & shrubs shall be straight and in correct position per the landscape plans, details and specifications. All nursery, shipping and identification tags & ribbons shall be removed from trees & shrubs immediately after planting.



Project Team:
Client: Indian River County
Civil Engineer: Arcadis
Landscape Architect: Lucido & Associates, P.A.
Irrigation Consultant: Massum Consulting, LLC

66th Avenue Phase 1A
Indian River County
Landscape Specifications

Table with 4 columns: Date, BN, Revs, Per County, Comments. Rows include 5/13/17 BN, 12/11/17 BN, and 12/11/17 BN 100% CD.

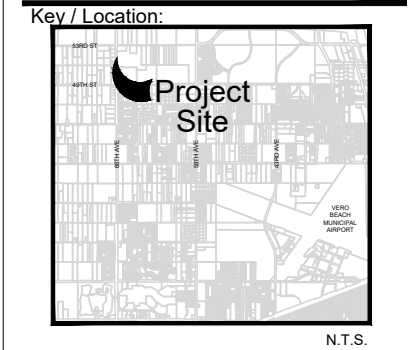


Designer: KV Sheet
Manager: BN
Project Number: 16-260
Municipal Number: 00-000
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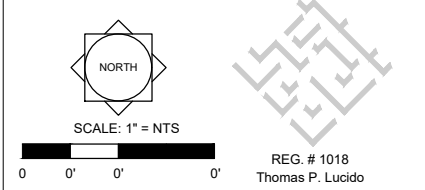
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**Project Team:**  
**Client**  
 Indian River County  
 1840 25th Street  
 Vero Beach, FL 32960  
**Project Engineer:**  
 Etienne B. Bourgeois, P.E.  
**Civil Engineer**  
 Arcadis  
 Hank Dittel, P.E.  
 2018 Vista Parkway  
 West Palm Beach, FL 33411  
 P: 561.697.7000  
**Landscape Architect**  
 Lucido & Associates, P.A.  
 Thomas P. Lucido, RLA  
 100 Avenue A, Suite 2A  
 Fort Pierce, FL 34950  
 P: 772.467.1301  
**Irrigation Consultant**  
 Massum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x 114

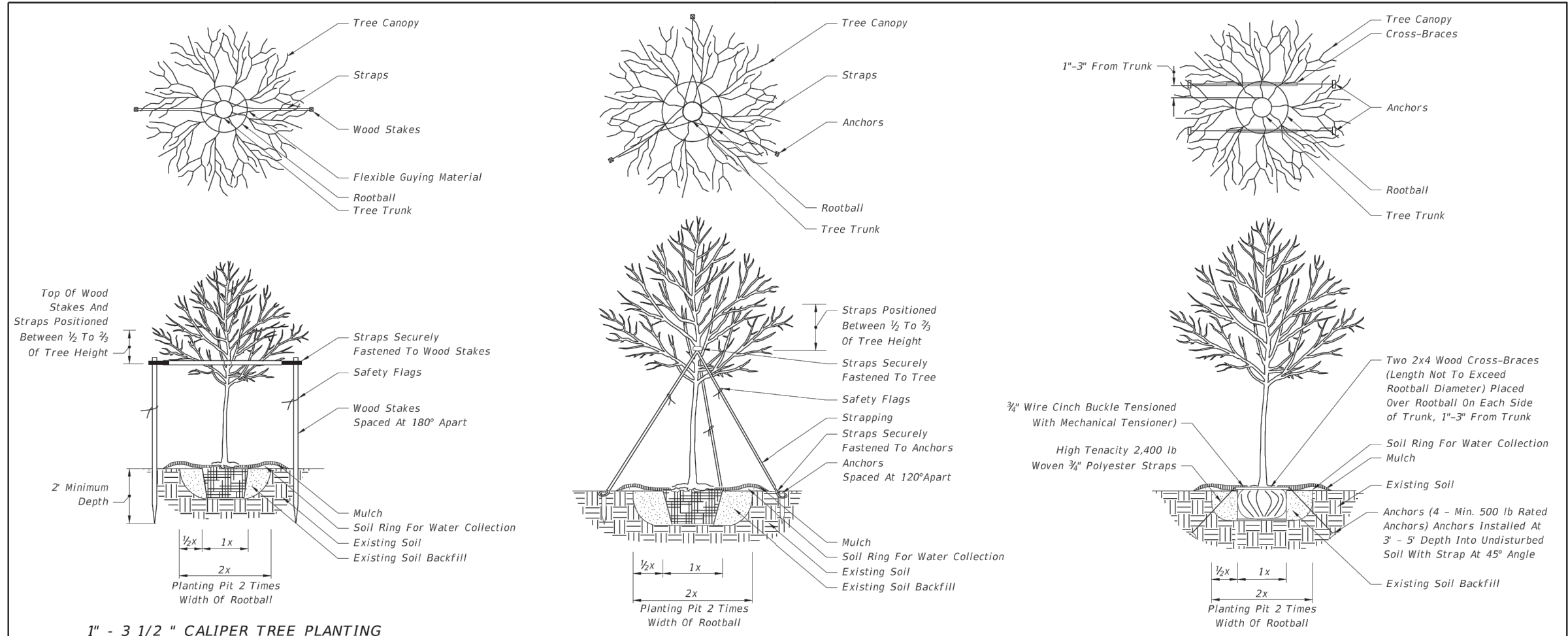
**66th Avenue Phase 1A**  
 Indian River County  
 FDOT Index 544 Details

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	Updated to current FDOT standards
12/11/17	BN	100% CD



Designer KV Sheet  
 Manager BN  
 Project Number 16-260  
 Municipal Number 00-000  
 Computer File 16-260\_66thAve\_RoadwayLandscapeCurre

**17 of 19**



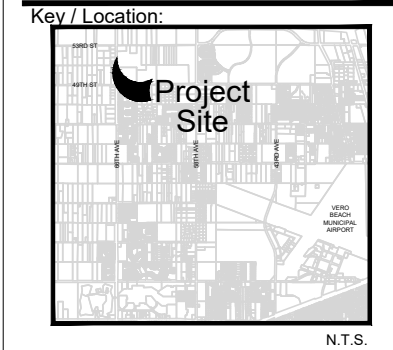
**GENERAL NOTES:**

- All dimensions 6" and less are exaggerated for illustrative purposes only.
- Plant containers shall be removed prior to planting. If plants are not container grown, remove a minimum of the top 1/3 of burlap, fabric, or wire mesh. Never lift or handle the tree by the trunk.
- The uppermost root on all trees shall be covered by less than 1" of soil. Use hand tools to carefully remove all excess soil. The top of root ball shall be set 1"-2" above finish grade and set plumb to the horizon. If planting pit is too deep, remove the tree and firmly pack additional soil in the bottom of the planting pit to raise the rootball. After positioning the tree in the planting pit, slice through rootballs with 3 or 4 vertical slices (top to bottom) equally distributed around the tree.
- Backfill shall be loosened existing soil. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. If existing soils contain excessive sand, clay, or other material not conducive to proper plant growth, contact Engineer prior to planting.
- Soil rings shall be constructed of existing soil at the outer edge of the planting pit, with a height of 3" and gently sloping sides. Do not pile soil on top of rootball.
- Mulch shall be a 3" deep layer placed to the edge of the trunk flare, around the base of shrub, or solidly around groundcover. Never pile mulch against the tree trunk.
- Straps shall be minimum 1" wide nylon or polypropylene. All wood stakes or anchors shall be located beyond the edge of soil ring and located below finished grade, unless otherwise specified.
- Sabal Palms may be hurricane cut. All other palms must have fronds tied with biodegradable twine. Palm trunks shall have no burn marks, scars, or sanding.
- All dimensions provided for wood materials are nominal.
- When a permanent, subsurface, or drip irrigation system is provided, a soil ring is not required. Mulch to edge of planting pit.
- Alternate tree bracing and guying systems approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barricade detailed on the index.
- Remove aboveground guying systems at the end of the establishment period.

LAST REVISION 07/01/07	DESCRIPTION:	<b>FDOT</b> FY 2016-17 DESIGN STANDARDS	LANDSCAPE INSTALLATION	INDEX NO. 544	SHEET NO. 1 of 3
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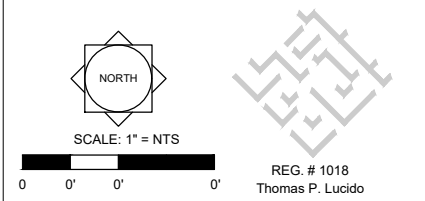
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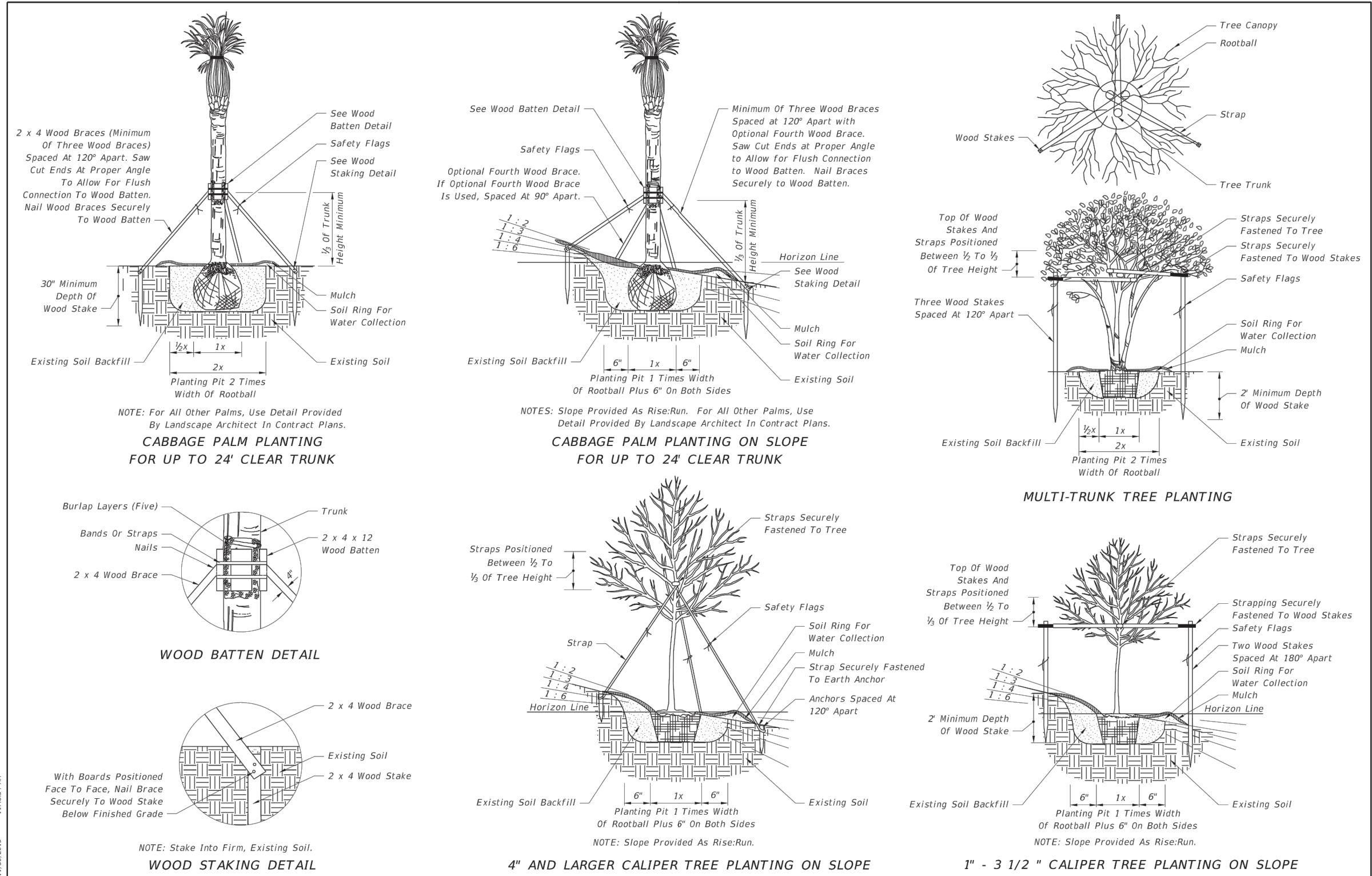
**Project Team:**  
 Client: Indian River County  
 1840 25th Street  
 Vero Beach, FL 32960  
 Project Engineer: Etienne B. Bourgeois, P.E.  
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 Hank Dittel, P.E.  
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 P: 772.467.1301  
 Irrigation Consultant: Masum Consulting, LLC  
 5079 N. Dixie Highway #323  
 Oakland Park, FL 33334  
 P: 866.9278.1533 x 114

**66th Avenue Phase 1A**  
 Indian River County  
 FDOT Index 544 Details

Date	By	Description
5/13/17	BN	Revs. Per County Comments
12/11/17	BN	Updated to current FDOT standards
12/11/17	BN	100% CD



Designer: KV Sheet  
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 Project Number: 16-260  
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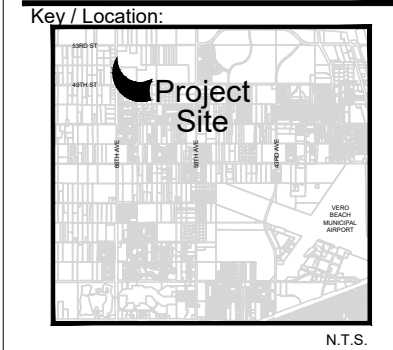


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07/01/07				544	2 of 3

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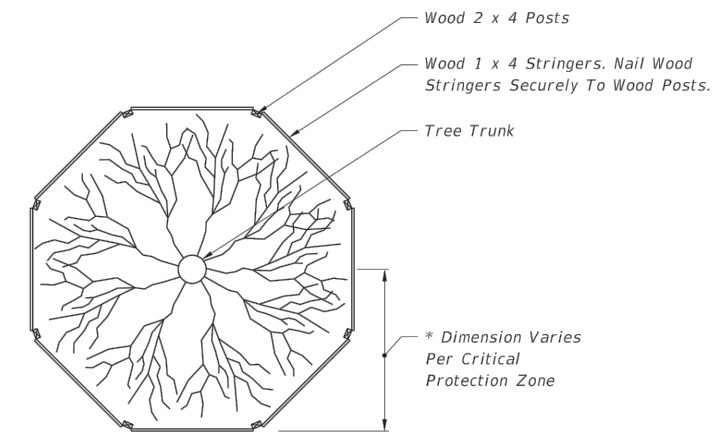
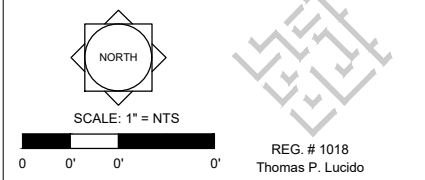
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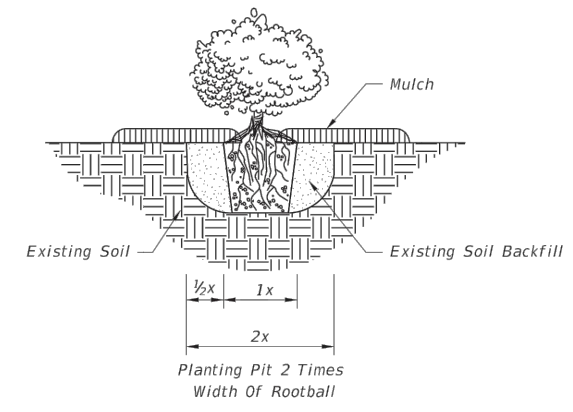
**Project Team:**  
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 Indian River County  
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**66th Avenue Phase 1A**  
 Indian River County  
 FDOT Index 544 Details

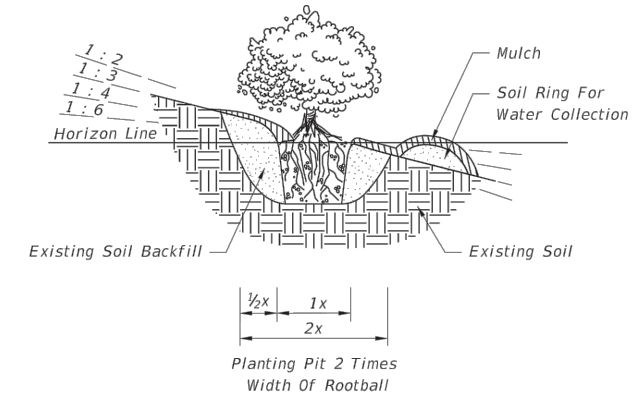
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NOTE: For Groups Of Trees, Place Barricades Between Trees And Construction Activity.

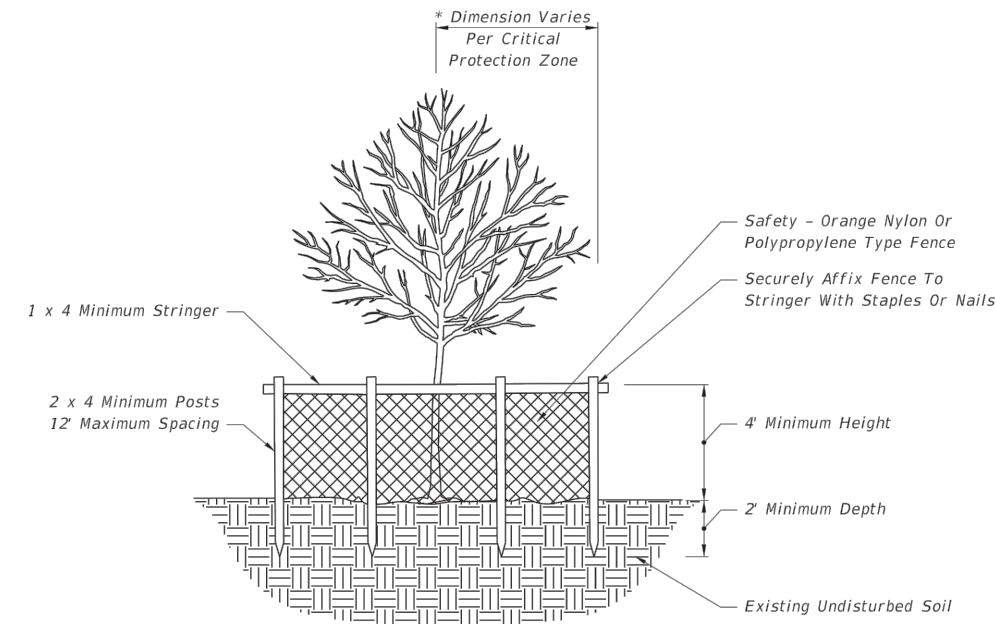


**GROUND COVER/SHRUB PLANTING**



**GROUND COVER/SHRUB PLANTING ON SLOPE**

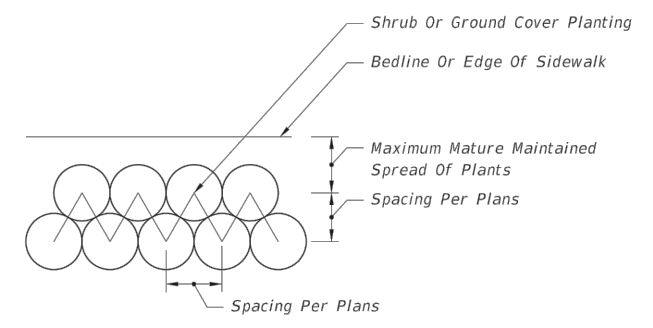
NOTE: Slope Provided As Rise:Run.



NOTES: Critical Protection Zone: The Area Surrounding A Tree Within A Circle Described By A Radius Of One Foot For Each Inch Of The Tree Trunk Diameter At 54" Above Finished Grade. For Groups Of Trees, Place Barricades Between Trees And Construction Activity.

\* Tree Protection Barricades Shall Be Located To Protect A Minimum Of 75% Of The Critical Protection Zone.

**TREE PROTECTION BARRICADE**



**GROUND COVER/SHRUB LAYOUT DETAIL**

LAST REVISION 07/01/07	DESCRIPTION:	<b>FDOT</b> FY 2016-17 DESIGN STANDARDS	LANDSCAPE INSTALLATION	INDEX NO. 544	SHEET NO. 3 of 3
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Designer KV Sheet  
 Manager BN  
 Project Number 16-260  
 Municipal Number 00-000  
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